REPORT ON THE 2003

DIAMOND DRILL and TRENCHING PROGRAM

ON THE

ABO GOLD PROPERTY

HARRISON HOT SPRINGS

BRITISH COLUMBIA

NTS: 092H/5E

Latitude: 49° 20' N Longitude: 121° 44' W

NEW WESTMINSTER MINING DIVISION

for

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SUMMARY:

The 150 unit Abo Gold Project is located near the village of Harrison Hot Springs, British Columbia, approximately 130 km east of Vancouver, on NTS map sheet 092H/5E in the New Westminster Mining Division. It is situated along the southeastern shore of Harrison Lake with road access year-round. Hydroelectric power, natural gas and rail service are located within 3 km of property boundaries. Northern Continental Resources Inc. has acquired the option to earn a 60% interest in the central 76 units of the property from Eagle Plains Resources Ltd. and owns 100% of the remaining claims.

Geologically, the property is underlain by sedimentary rocks and lesser volcanic tuffs and flows of the Cretaceous Brokenback Hill Formation, part of the Harrison Lake lithostructural package. This sequence is intruded by a number of quartz diorite to diorite stocks, thought to be related to the Oligocene to Miocene aged Hicks Lake Batholith, one of several granodiorite batholiths focused along the over 100km long extent of the Harrison Lake Fault, which lies to the east of the property.

Thirteen known gold showings are associated with the quartz diorite stocks, outboard from the granodiorite batholiths, including Abo Gold and two past producing gold mines in Washington State. The Jenner and Portal Stocks on the Abo Gold property have a combined indicated resource of 1.8 million tonnes grading 2.8 g/t Au and an inferred resource of 614,000 tonnes of 2.79 g/t Au. Gold mineralization is dominantly hosted by quartz-pyrrhotite veins within the quartz diorite stocks.

The 2003 exploration program included 300m of trenching and 682m of diamond drilling in four holes focused on one portion of the property encompassing the Hill Stock and adjacent Breccia Zone. Previous drill intercepts include 3.3 g/t Au over 27m, including 8.7 g/t Au over 8.8m from the Hill Stock and 1.5 g/t Au over 29m and 8.64 g/t Au and 29.5 g/t Ag over 0.7m from the Breccia Zone.

Three new gold zones were discovered during the 2003 program on the Hill Stock and adjacent Breccia Zone and limited drilling on the Hill Stock intersected significant gold-silver mineralization. The Hill Stock is one of nine stocks identified on the property to date. Additional stocks and a greater aerial extent of the existing stocks is also suggested by previous soil geochemical and airborne geophysical surveys.

The known sizes of the gold bearing Hill Stock and Breccia Zone were increased in 2003. Maximum values of 63.8 g/t Au with 184 g/t Ag were obtained from grab samples and 24.7 g/t Au with 62.3g/t Ag from trenching over the 0.2m incompletely exposed width at the newly discovered North Hill Stock Zone. DDH ABO 03-4 targeted the zone but no significant values were obtained. However, the hole was not completed and gold grades are known to increase towards the northern margin of the Portal Stock, which has a known resource, suggesting further potential for this area.

A second zone of quartz vein mineralization hosted by quartz diorite (Pad 2 Zone) was discovered in the north-central Hill Stock, 125m northeast of the collar of DDH ABO 03-01 with values of 36.0 g/t Au and 51.8 g/t Ag from a grab sample and 23.1 g/t Au and 13.2 g/t Ag over 0.7m. The zone has not been drilled.

Oxidized sulphide-rich mineralization, containing pyrite, pyrrhotite, chalcopyrite and sphalerite, was discovered at the southern extension of the Breccia Zone with maximum values of 0.66 g/t Au from grab samples. The zone has not been drilled and based on previous drill results, grades are expected to improve with depth.

The drill program on the Hill Stock returned significant gold-silver values of 14.1 g/t Au, 25.8 g/t Ag over 1.5m from DDH ABO 03-1, 4.9 g/t Au over 3.9m including 18 g/t Au, 31.6 g/t Ag over 1m in ABO 03-2 and 14.2 g/t Au, 29.5 g/t Ag over 1.5m from ABO 03-3.

An aggressive exploration program including concurrent diamond drilling, trenching, soil geochemistry and geophysical surveying is proposed for 2004. Drill targets include the above new gold zones in the Hill Stock and Breccia Zone and untested anomalies over the Lake Stock. In addition, numerous gold in soil anomalies from previous surveys over areas underlain by quartz diorite stocks remain to be tested and new targets that may represent additional quartz diorite stocks were identified in the airborne geophysical survey undertaken by Eagle Plains Resources Ltd. in 2001. The gold bearing Jenner and other stocks on the property were originally discovered by soil geochemistry.

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1.0 INTRODUCTION

This report documents the results of the 2003 exploration program completed between February 15 and October 15, 2003 at the Abo Gold Project, located on the southeastern shore of Harrison Lake, British Columbia. The program involved regaining access, trenching and diamond drilling and targeted the extension of significant mineralized zones intersected during limited previous exploration on the Hill Stock. Gold mineralization on the Abo property is dominantly hosted by quartz-pyrrhotite veins within quartz diorite stocks with a known resource indicated on the Jenner and Portal Stocks.

2.0 LOCATION AND ACCESS (Figure 1)

The Abo Gold property, NTS map sheet 092H/5E and BCGS Map Sheets 92H 032 and 022, is located 4.5 km northeast of the village of Harrison Hot Springs, British Columbia, approximately 22 km west-southwest of Hope and 130 km east of Vancouver, in the New Westminster Mining Division. It is situated along the southeastern shore of Harrison Lake at latitude 49°20' N and longitude 121°44' W.

The Abo Gold Project is road accessible year-round. Hydroelectric power, natural gas and rail service are located within 3 km of property boundaries. The property is accessible from Vancouver via Highways 1 or 7 to Agassiz followed by Highway 9 to Harrison Hot Springs. A paved road extends along the east side of the lake to the dominantly four-wheel drive Bear Creek Forest Service Road and branch roads that traverse the property (at 7190 Lillooet Drive).

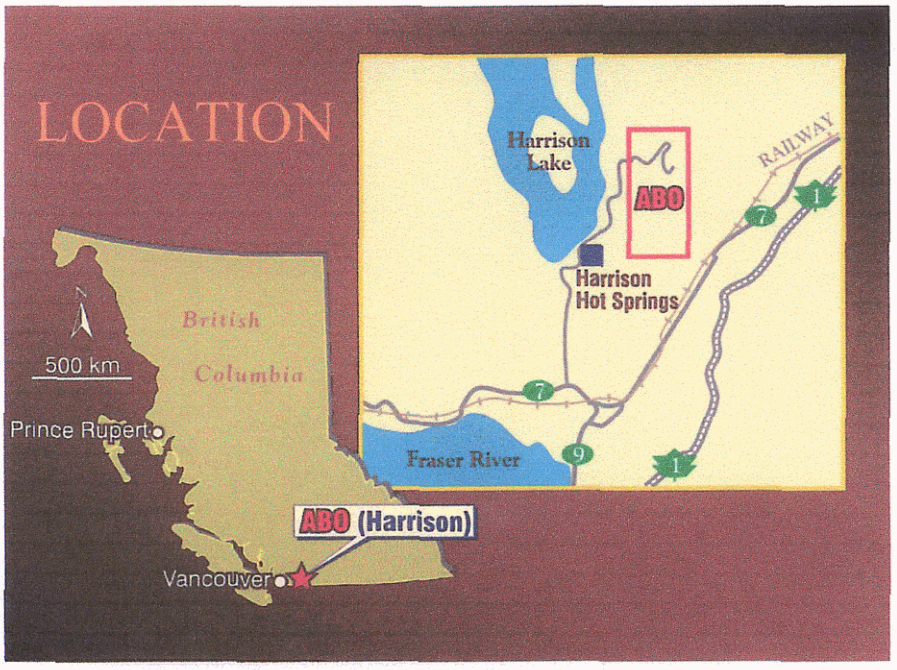

FIGURE 1 LOCATION MAP

3.0 LEGAL DESCRIPTION (Figure 2)

The 3,750 ha Abo Gold Project consists of 11 modified grid and 14 two post claims, totalling 150 contiguous units in the New Westminster Mining Division, BCGS Map Sheets 92H 032 and 022. Northern Continental Resources Ltd. has acquired the option to earn a 60% interest in the central 76 units of the property from Eagle Plains Resources Ltd. The remainder of the claims (North Claims) are 100% owned by Northern Continental Resources Ltd. Details of the option agreement with Eagle Plains Resources Ltd. is documented in Price, 2002. A detailed statement of claims is shown in Appendix II and a summary with expiry dates follows:

Claim Name	Record No.	Units	Staking Date	Expiry Date
Hot 4	235557	6	Nov 22, 1984	Dec 26, 2006
Abo 1, 2	382167-68	29	Oct 21, 2000	Dec 26, 2006
Jill	383387	1	Dec 23, 2000	Dec 26, 2006
Abo 3 - 7	384241-45	40	Feb 21, 2001	Dec 26, 2006
North 1 - 2	402316-17	21	April 28, 2003	April 28, 2009*
North 3 -7, 9 -17	402373-86	53	April 27-30, 2003	April 27-30, 2009*

*based on acceptance of this report

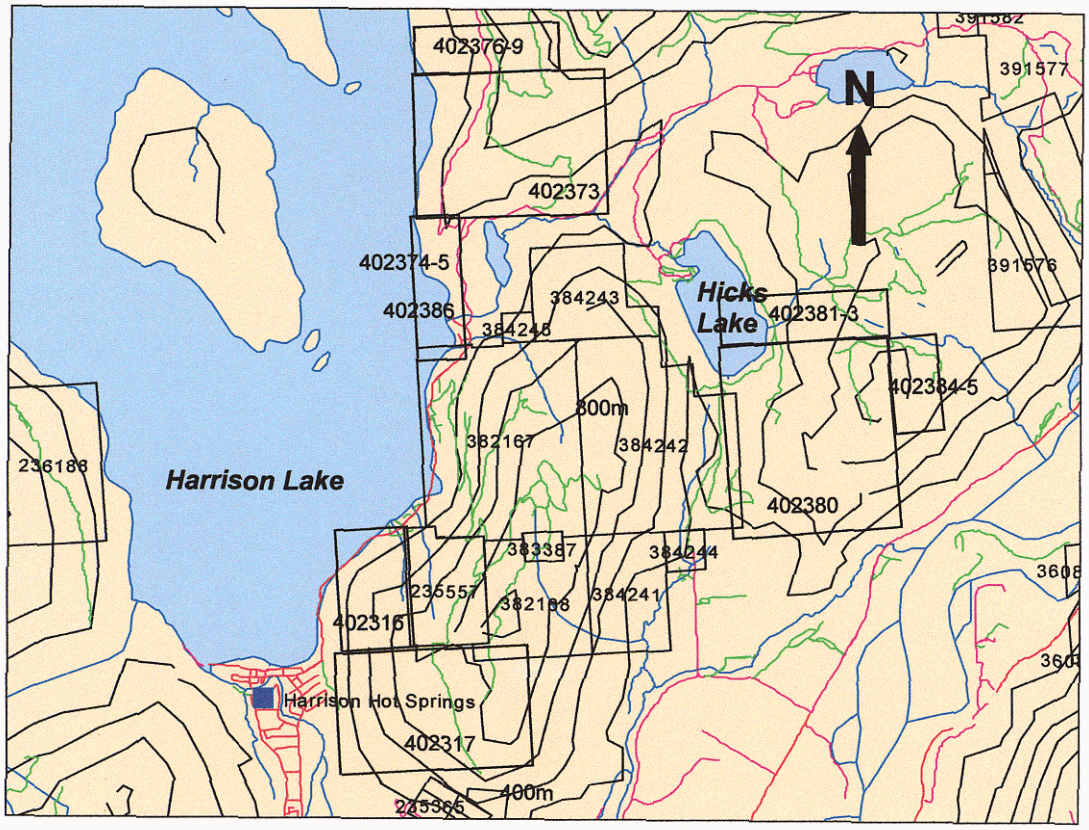

FIGURE 2: CLAIM MAP

4.0 PHYSIOGRAPHY, VEGETATION AND CLIMATE

The Abo Gold Project lies on the northern flank of Bear Mountain within the Coast Mountains, bounded by Harrison Lake to the west. The topography on the property is steep with elevations ranging from sea level to over 1000m.

Most of the property has been previously logged with a mixed coniferous and deciduous second growth cover, including devil's club.

The climate is essentially coastal with moderate to warm summers, cooler wet winters and a mean annual precipitation of 150-250 cm that includes snow, especially at the higher elevations.

5.0 HISTORY

The earliest documented exploration on the Abo property dates to 1972 at which time limited gold, silver and copper production was reported from the Portal Stock, hosted by visible gold bearing quartz-pyrrhotite veins (Minfile, 2003).

Exploration work from 1982 to 2002 (acquisition by Northern Continental Resources Inc.) has involved underground development on the Portal and Jenner Stocks, extraction of a 1053 tonne bulk sample from the Jenner, over 17,500m of diamond drilling in 149 holes, trenching, rock and soil geochemistry, magnetic and electromagnetic geophysical surveys and a recent airborne geophysical survey. A summary of the work completed by various operators is tabulated below:

1972-82	surface and underground production of 643 tonnes @ 47.4 g/t Au from visible gold bearing quartz-pyrrhotite veins in the Portal Stock
1982-4	mapping, ground geochemical and geophysical (EM) surveys, underground exploration, 3582m of drilling in 34 holes, discovery of Jenner Zone by soil geochemistry followed by drilling (3.8 g/t Au over 64m) by Abo Oil Corp.
1984-6	mapping, geochemical surveys, 3196m of diamond drilling in 28 holes, discovery of additional stocks by Kerr Addison Mines Ltd.
1987-8	underground exploration, from the Jenner Stock, >1,000m of drilling in 22 holes by Kerr with letter of intent from Bema
1987-92	geochemical and geophysical (magnetic) surveys, detailed mapping, 9,468m of diamond drilling in 45 holes by Bema International Resources Ltd.
1992-6	290m in 2 diamond drill holes by Pacific Comox Ltd.
1998-2000	Global Gold Inc.
2000-02	airborne geophysical survey and data compilation by Eagle Plains Resources Ltd.
2002	option by Northern Continental Resources Inc.

6.0 2003 WORK PROGRAM

The 2003 exploration program on the Abo Gold Project involved approximately 15 km of road and trail rehabilitation, implementation of secure underground access, rehabilitation of the core logging and storage facility, 300m of trenching (along existing roads and trails) and 682m of diamond drilling in 4 holes. Road clearing and maintenance was necessary along the existing road/trail access across the property, including the main Bear Creek Forest Service Road, to enable access due to extensive overgrowth.

The trench and drill program focused on one portion of the property, encompassing the Hill Stock and adjacent Breccia Zone. Costs have only been applied for the trench and drill program. Control was provided by GPS, 1:20,000 based topographic maps, hipchain and compass.

7.0 GEOLOGY

7.1 Regional (Figure 3)

The regional geology of the Abo Gold Project is represented on the 92H Map Sheet, Journeay and Csontos, 1989.

The property is situated at the junction of the intrusion dominated Coast Plutonic Complex to the northwest and the northern extension of the Cascade Fold Belt (more prevalent in Washington State) to the southeast. The Intermontane Belt lies further to the east. The Cascade Fold Belt consists of a high grade metamorphic and granitic core flanked on the east and west by weakly metamorphosed folded and faulted sedimentary and volcanic sequences. More specifically, the Abo Gold property is underlain by mid Triassic to early Cretaceous sedimentary and volcanic rocks of the Harrison Lake lithostructural package, bounded to the east by the late Cretaceous and/or early Tertiary Harrison Lake Fault, the main structural feature in the region.

The Harrison Lake Fault or Shear Zone, a 1-2 km wide strike slip fault that extends for over 100 km from Lillooet, British Columbia, well into Washington State, appears to have acted as a conduit for both thermal hot springs and hydrothermal fluids. The fault separates higher grade metamorphic rocks to the east from those of lower grade to the west and provided the locus for the intrusion of a series of Oligocene to Miocene aged granodiorite batholiths, known as the Chilliwack, Mt. Barr, Hicks Lake and Doctor's Point Batholiths.

Numerous small calc-alkaline stocks, of quartz diorite to diorite composition, are associated with and occur peripheral to the above-mentioned batholiths. Thirteen known gold showings are associated with the stocks, which include Doctor's Point, Abo Gold, Laidlaw and a series of showings outboard from the Chilliwack Batholith that include two past producing mines in Washington State, the Lone Jack and Boundary Red Mountain.

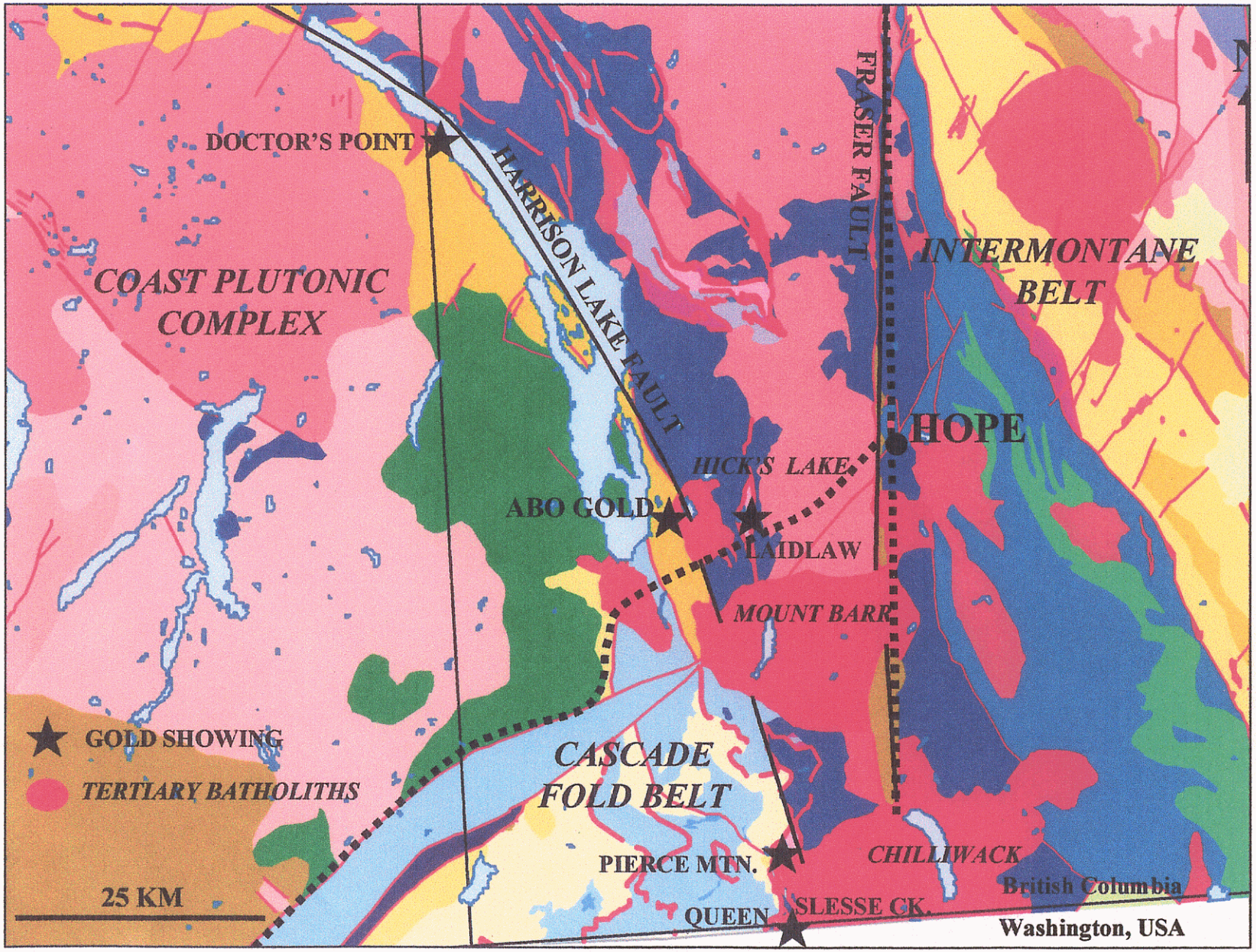

FIGURE 3: REGIONAL GEOLOGY

7.2 Property (Figure 4)

The Abo Gold property is underlain by sedimentary rocks and lesser volcanic tuffs and flows, probably of the Cretaceous Brokenback Hill Formation (Norman, 1989) part of the Harrison Lake lithostructural package. This sequence is intruded by a number of quartz diorite to diorite stocks, thought to be related to the Oligocene to Miocene aged Hicks Lake Batholith. Several possible north to northwesterly trending splays of the Harrison Lake Fault, which lies to the east of the property, cut the above lithologies.

At least nine significant stocks, including the Jenner, Portal, Hill, Lake, Slide, Bear, Bluff and Swamp have been identified on the property. The stocks occur as subvertical, pipelike bodies between 50 and 350m in diameter, surrounded by biotite rich hornfelsed aureoles up to 100m wide (Ray, 1991). The Portal Stock has been dated at 25.7 ± 1.0 Ma (Richards and White, 1970) and the Jenner at 23 to 25 Ma (Minfile, 2003), both by K-Ar analyses.

The country rocks of the stocks consist of deformed and metamorphosed volcanic flows, pyroclastics, argillite and sandstone, locally calcareous, of the upper portions of the Brokenback Hill Formation (correlative with the Fire Lake Group). The lower part of the Formation consists of green crystal tuff, volcanic conglomerate and tuffaceous sandstone.

For a more detailed description of the property geology please refer to Norman, 1990b.

7.3 Mineralization (Figures 4 - 7)

In general gold mineralization on the property occurs within predominantly low angle quartz veins, commonly associated with pyrrhotite, hosted by the quartz diorite stocks and, to a lesser extent, the adjacent dominantly metasedimentary country rock. Visible gold has been identified from the Jenner, Portal and Lake Stocks.

Gold mineralization is known to occur over a vertical range of 900m, with the Lake Stock at an elevation of 900m and the Portal Stock at 125m. The mineralization in both the Jenner and Portal Stocks has been drilled to sea level and is open at depth.

The Jenner and Portal Stocks are the only zones that have had sufficient drilling and underground work to be able to calculate a mineral resource. The combined indicated mineral resource is 1.8 million tonnes grading 2.8 g/t (0.08 oz/t) Au, with an inferred resource of 614,000 tonnes of 2.79 g/t (0.08 oz/t) Au, National Instrument 43-101 standards (Price, 2002).

There appears to be a relationship of stock emplacement and possibly mineralization to north to northwesterly trending structures observed on the property that may represent splays of the Harrison Lake Fault. A northwesterly trending fault occurs along the western edge of the Jenner Stock and a northerly trending fault lies along the eastern

margin of the Portal Stock. The latter may be continuous with a northerly trending fault that appears to have an association with mineralization in the Breccia Zone, discussed in the following section of this report.

There is an association of gold mineralization to "hybrid zones" within or near the contact of the quartz diorite bodies and in part with felsic dykes (felsite). The "hybrid zones" appear to represent variably digested or "granitized" xenoliths of the hornfelsed metasedimentary rocks (hornfels) and can have an association with intrusion breccias, suggestive of poorly differentiated zones within the quartz diorite bodies. Consequently, there appears to be a close association between the timing of mineralization and the latter stages of intrusion of the stocks.

Mineralization is consistent with the intrusive hosted or related gold deposit model for the Tintina Gold Belt, an arcuate belt that extends through Alaska and the Yukon Territory and includes similar style deposits such as Fort Knox, Shotgun and Dublin Gulch. Similarities of the above gold deposits in the Tintina Gold Belt to the Abo Gold Project include the host rocks (intrusions), diagnostic minerals (pyrrhotite, bismuth-silver tellurides, arsenopyrite, molybdenum, chalcopyrite), associated elements (Ag, Bi, Te, As, W, Mo, Cu) alteration (sericite, calcite, biotite) and ore hosting structures (veins and shears, lesser stockwork and breccia zones). For a description of the Tintina Gold Belt and its deposits please refer to Tucker, T.L. and Smith, M.T., eds, 2000.

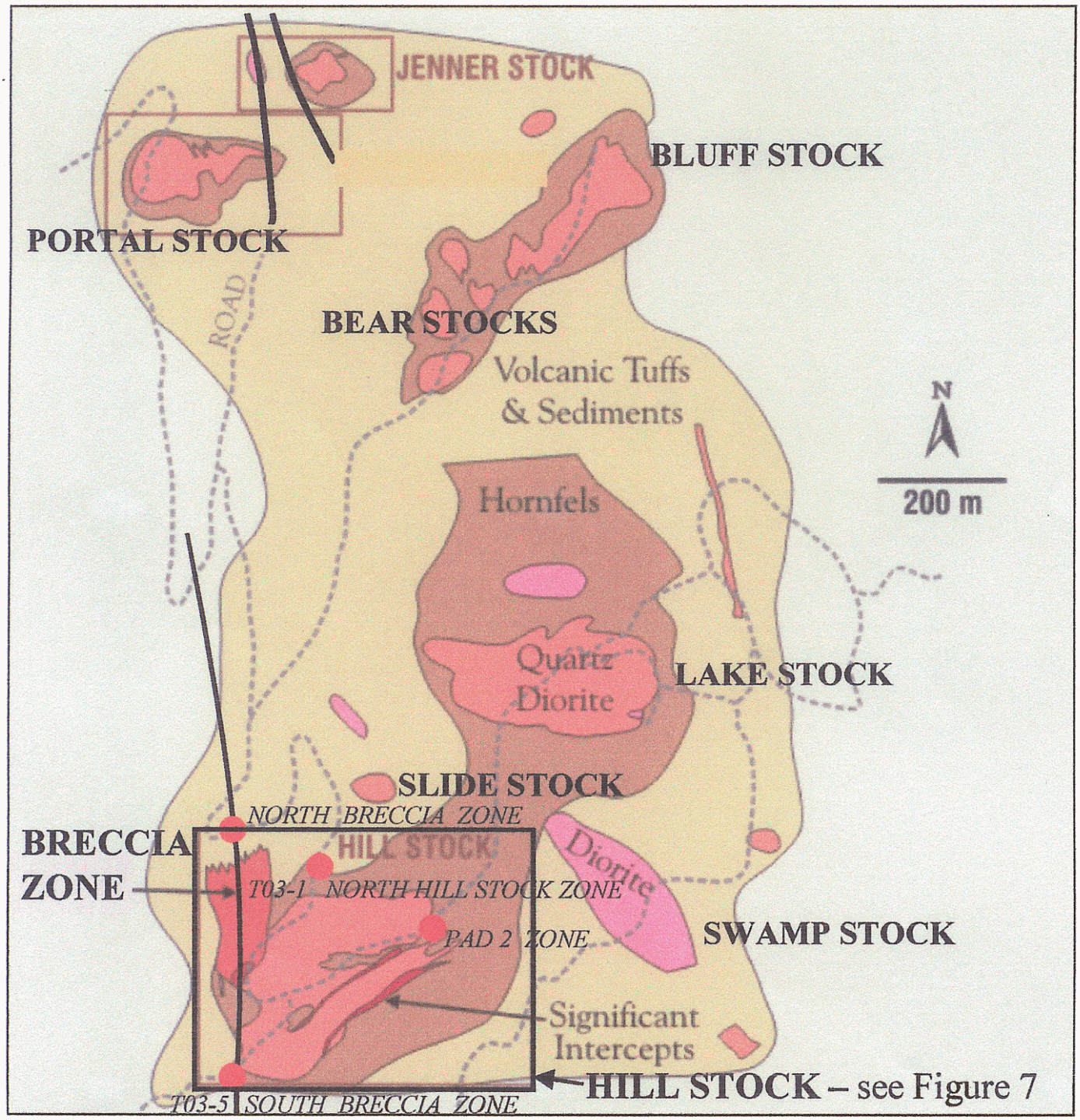

FIGURE 4: PROPERTY GEOLOGY

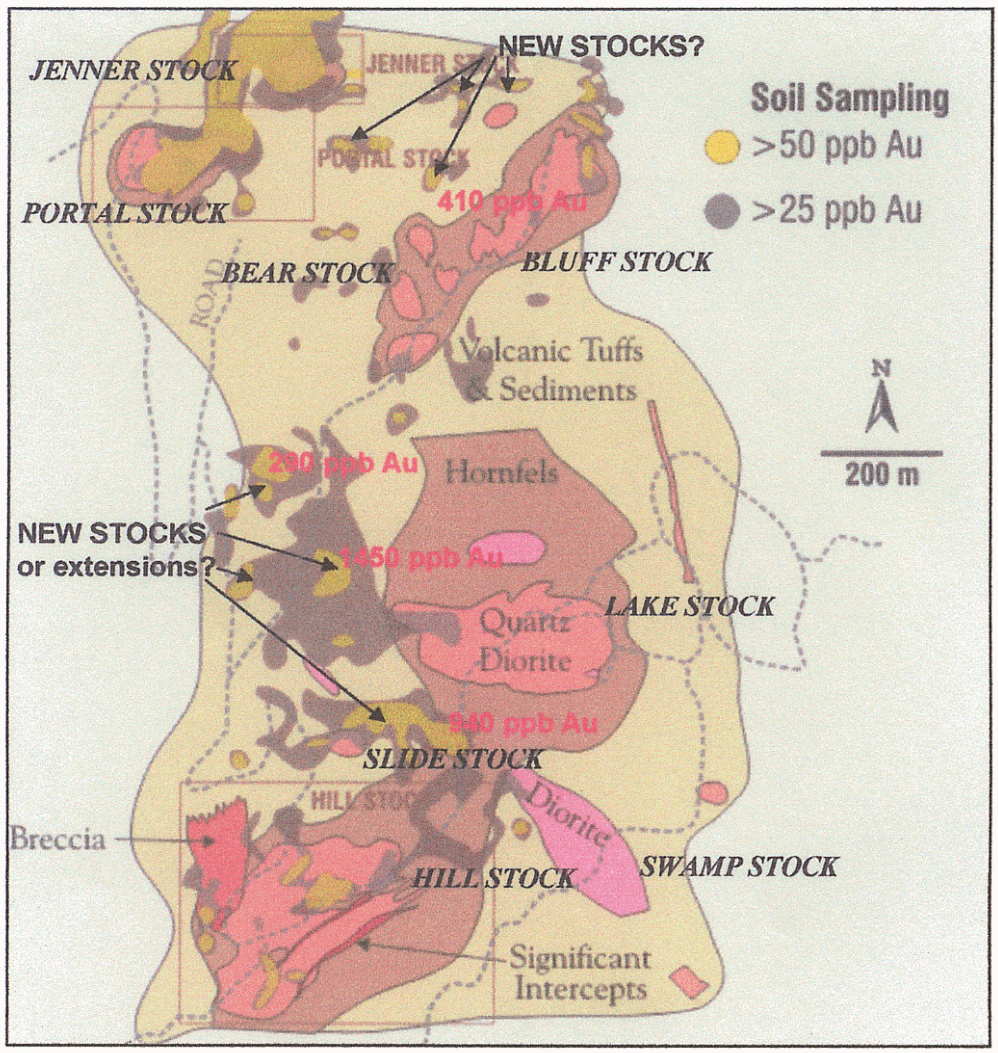

FIGURE 5: SOIL GEOCHEMISTRY

Previous soil geochemical surveys on the property outlined significant gold in soil anomalies, some of which led to the discovery of the Jenner Deposit and the location of additional gold bearing stocks across the property. Additional gold in soil anomalies, up to 1450 ppb Au, remain untested (Figure 5). They include anomalies east of the Jenner and Portal Stocks and a large central anomalous zone extending through the Hill and Slide Stocks and beyond, further to the north, suggestive of additional stocks.

Significant resistivity anomalies were obtained from the airborne geophysical survey completed by Eagle Plains Resources Ltd. in 2001 (Figure 6). The stocks, which produce a moderate resistivity response, appear to be larger than mapped on surface, confirming interpretations from the soil geochemical data. Both the Lake and Hill Stocks appear to have a much larger aerial extent and two northerly trends are evident that may reflect splays of the Harrison Lake Fault which may have controlled stock emplacement and mineralization.

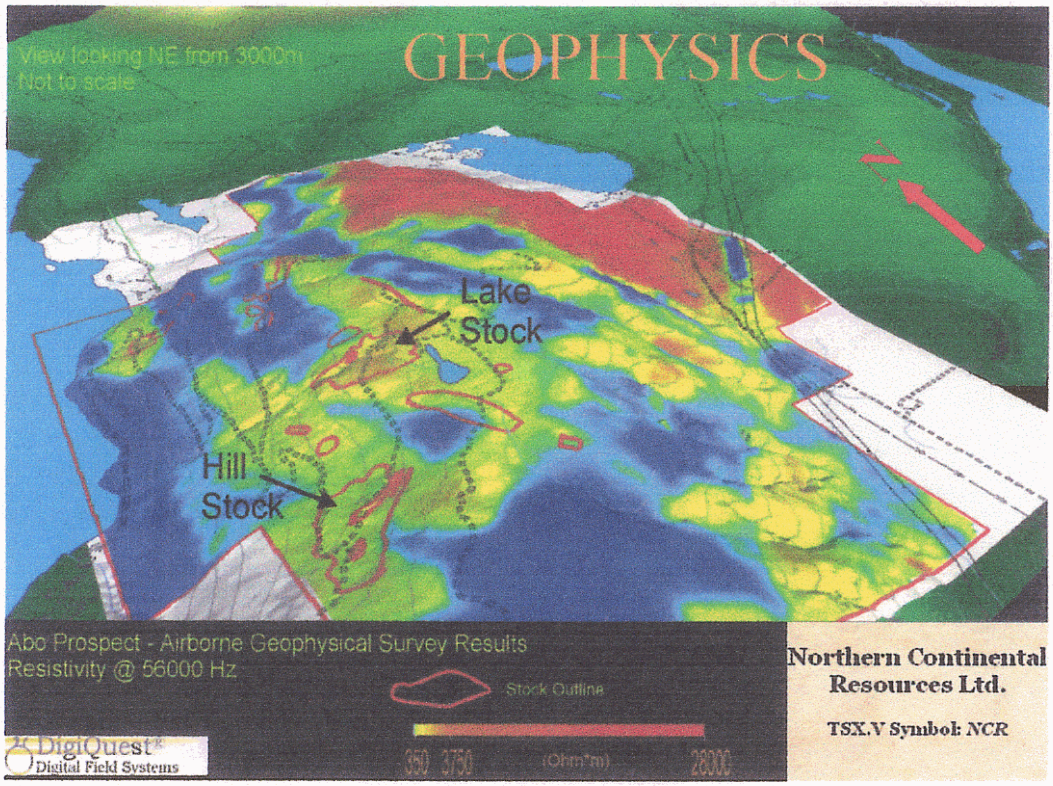

FIGURE 6: GEOPHYSICS

7.4 Hill Stock and Breccia Zone (Figures 4, 7 and 8)

The 2003 exploration program concentrated on the Hill Stock and adjacent Breccia Zone. The Hill Stock is located 2.35 km south of the Jenner Stock, the northernmost and best explored stock to date. Only nine holes have previously been drilled on the Hill Stock and six on the Breccia Zone.

The Hill Stock is now the largest stock identified on the property, approximately 260m wide by 575m long. The northern margin of the Hill Stock was extended almost 100m further to the north in 2003 during the process of reopening the road access across the property. Gold-silver mineralization is associated with low angle quartz±carbonate-pyrrhotite-pyrite-chalcopyrite±molybdenum±arsenopyrite veins within relatively flat lying zones.

The Breccia Zone occurs within the western hornfelsed aureole of the Hill Stock and consists of sedimentary and lesser intrusive fragments in a sulfide bearing quartz-carbonate-sericite matrix. The sulfide mineralogy, consisting of pyrrhotite, sphalerite and chalcopyrite, occurs as open space fillings.

The 350x100m wide Breccia Zone was extended over 250m to the south and 75m to the north during the 2003 program. Quartz stockwork mineralization, hosted by bleached, silicified and sericite altered argillaceous sedimentary rocks, and oxidized sulphide-rich mineralization, containing pyrite, pyrrhotite, chalcopyrite and sphalerite, was discovered southwest of the Hill Stock in Trenches T 03-3 to –5 and quartz breccia mineralization was discovered near the Bear Creek Forest Service Road, at the north end of the Breccia Zone.

The Breccia Zone and associated mineralization appear to be controlled by a northerly trending, steep westerly dipping fault, suggested by morphology of the zone, topography and previous drill intercepts.

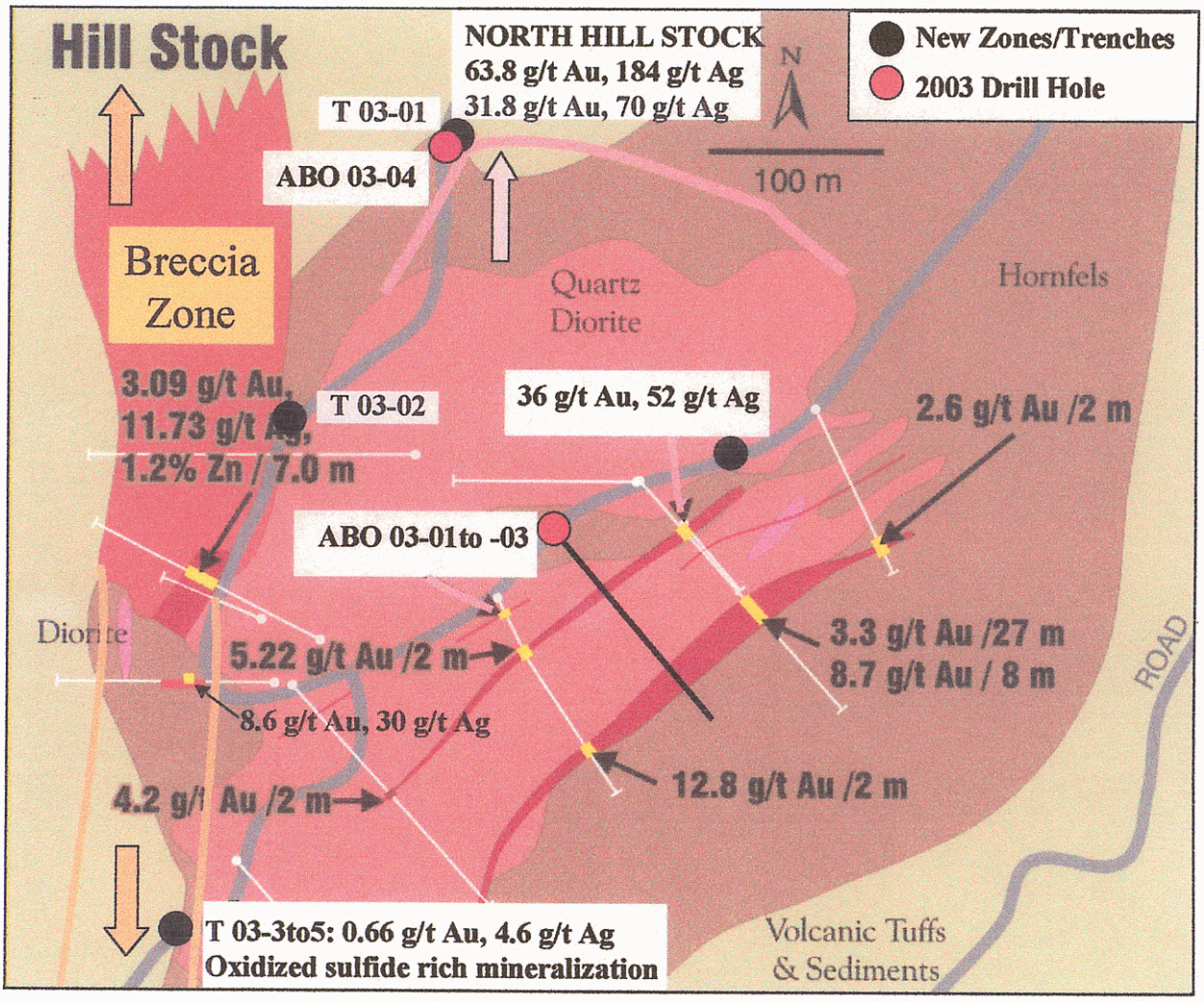

FIGURE 7: HILL STOCK PLAN

8.0 PROSPECTING AND TRENCHING (Figures 7-9)

A total of 300m of trenching in six trenches was completed in 2003 utilizing a Hyundi Robex LC 130 excavator. A total of 41 samples were collected from the trenches and 34 samples were collected from prospecting. Trench locations are shown on Figures 7 and 8. A detail of Trenches 03-3 to –6 is shown in Figure 9. All samples were sent to Eco Tech Lab, Kamloops, British Columbia and analyzed for Au and 30 element ICP, as outlined under the diamond drilling procedure section of this report.

Quartz vein mineralization was discovered along the newly extended northern margin of the Hill Stock (North Hill Stock Zone) Grab samples returned assay values of 63.8 g/t (1.86 oz/t) Au with 184 g/t (5.37 oz/t) Ag (Sample 172346) and 31.8 g/t (0.93 oz/t) Au with 70 g/t (2.04 oz/t) Ag (Sample 172345). Trenching of the zone (T 03-1) intersected a relatively flat lying quartz vein, hosted by quartz diorite, trending 025°/30°E that returned 24.7 g/t (0.720 oz/t) Au with 62.3g/t (1.82 oz/t) Ag over the 20 cm incompletely exposed width (Sample 22323). The trench uncovered the hornfels/quartz diorite contact, confirming the northern extension of the Hill Stock by prospecting. This margin of the Hill Stock has never been tested and gold grades are known to increase towards the northern margin of the Portal Stock.

Trench T 03-2 explored the west-central margin of the Hill Stock, uncovering quartz stringers, with no significantly anomalous results (Samples 17237-41).

A second zone of quartz vein mineralization was discovered in the north-central Hill Stock, 125m northeast of the collar of ABO 03-01 (Pad 2 Zone). A grab sample returned assay values of 36.0 g/t (1.05 oz/t) Au and 51.8 g/t (1.51 oz/t) Ag (Sample 121762). Follow up of the discovery uncovered a 15 cm quartz vein, hosted by quartz diorite, trending 090°/30°S. The vein and adjacent wallrock returned assay results of 23.1 g/t (0.674 oz/t Au) and 13.2 g/t Ag over the 0.7m sampled (Sample 22349).

The northerly trending Breccia Zone along the western side of the Hill Stock previously returned values of 1.5 g/t (0.04 oz/t) Au over 29m (95 ft.) including 7m (23 ft.) of 3.5 g/t (0.10 oz/t) Au in drill hole BX88-129 and 8.64 g/t (0.25 oz/t) Au and 29.5 g/t Ag over 0.7m in hole BX90-142. Trenches T 03-3 to –6 explored the southern extent of the Breccia Zone. The zone has now been extended over 250m (820 ft.) to the south on surface with the discovery of oxidized sulphide-rich mineralization, containing pyrite, pyrrhotite, chalcopyrite and sphalerite, which returned maximum values from grab samples of 0.66 g/t Au (Sample AB-12) and 4.6 g/t Ag (Sample AB-16) in Trench T 03-3. Based on the previous drill results, grades are expected to improve with depth.

Quartz stockwork mineralization was exposed in variably silicified hornfels in Trench 03-5, but no significant results were obtained.

9.0 DIAMOND DRILLING (Figures 7-8,10-11, Table 1)

9.1 Procedure

A total of 682m of diamond drilling in four holes was completed over the Hill Stock on the Abo Gold Project during the 2003 drill program. Drilling was carried out between March 8 and August 15, 2003 by Standard Drilling and Engineering Ltd. of Vancouver, British Columbia, utilizing a skid-mounted JKS 300 core drill modified to use NQ wireline tools.

A total of 232 samples of core were split in half on site by Lee Sevigny, of Rosedale, British Columbia, and sent to Eco Tech Lab, Kamloops, British Columbia. All samples were analyzed for Al, Sb, As, B, Ba, Be, Bi, Cd, Ca, Cr, Co, Cu, Fe, Ge, La, Pb, Mg, Mn, Mo, Na, Ni, P, Ag, Sc, Sr, S, Ti, Tl, Sn, W, U, V and Zn using a 32 element ICP package which involves a nitric-aqua regia digestion. Gold was analyzed by fire assay with an atomic absorption finish. Lab procedures and results are outlined in Appendix IV.

Drill hole specifications are summarized in Table 1 and drill hole locations are shown on Figure 7 and 8. Summary drill logs are included in Appendix V and detailed logs in Appendix VI. Summary sections with significant results are shown in Figures 10 and 11. The core is stored on site with most of the previous core at the core logging facility at Km 1 on the Bear Creek Forest Service Road, UTM co-ordinates 591001E 5465397 N, 120m elevation, Nad 83, Zone 10.

Table 1: Drill hole specifications

GPS:	UTM Nad	83, Zone	10					
Hole No.	**Easting**	**Northing**	**Elev. (m)**	**Azimuth**	**Dip**	**Depth (m)**	**Samples**	**No.**
ABO 03-1	591367	5463080	730	124°	-45°	228.7	3001-51, 20251-95; no289	95
ABO 03-2	591367	5463080	730	124°	-60°	204.2	20296-20365	70
ABO 03-3	591367	5463080	730	-	-90°	204.8	20366-426; no 388	60
ABO 03-4	591011	5463498	632	-	-90°	43.6	20428-434	7
TOTALS:						**681.3**		**232**

9.2 Results

A brief description of each of the drill holes follows, including a summary of results, calculated as weighted averages:

DDH ABO 03-1 (Figure 10)

ABO 03-1, drilled at 124° with a -45° dip, targeted the strike extent of a zone that previously returned 27m (87.75 ft.) grading 3.3 g/t (0.10 oz/t) Au, including 8.8m (29 ft.) of 8.7 g/t (0.25 oz/t) Au in hole HL88-130, 70m along strike to the southwest.

Hornfels was intersected from the top of the hole down to about 33m and from 202m to the bottom of the hole at 228.7m. The hornfels consists of biotite hornfelsed metamorphosed clastic rocks, ranging in grain size from mudstones to grits with lesser conglomerate. Minor zones of calc-silicate development occur within the metasedimentary rocks. The upper zone of hornfels represents a large xenolith or pendant within the Hill Stock and the lower zone, the southeastern contact of the stock with its hornfelsed aureole.

The remainder of the hole from approximately 33m to 202m intersected the quartz diorite stock. Faults were encountered in the top of the hole, around 147.7m and near the lower gradational contact between the quartz diorite and its hornfelsed aureole at 189.8 to 191.2m. Narrow mafic to intermediate and felsite dykes intrude all the above units. The felsite dykes are more prevalent from180m to the end of the hole at 228.7m.

A distinct "hybrid zone" was not encountered in the hole but the quartz diorite contained 25% hornfels as xenoliths between 136.7 and 148.5m.

Significant quartz-pyrrhotite veins and stringers were evident around 61 to 62.5m and between 111.5 and 116m. Smaller quartz-pyrrhotite stringers comprise 1% of the interval between 166.4 and 179.1m.

ABO 03-1 appears to have passed above the flat lying mineralized zone, encountered in HL 88-130, intersecting narrow gold bearing intervals.

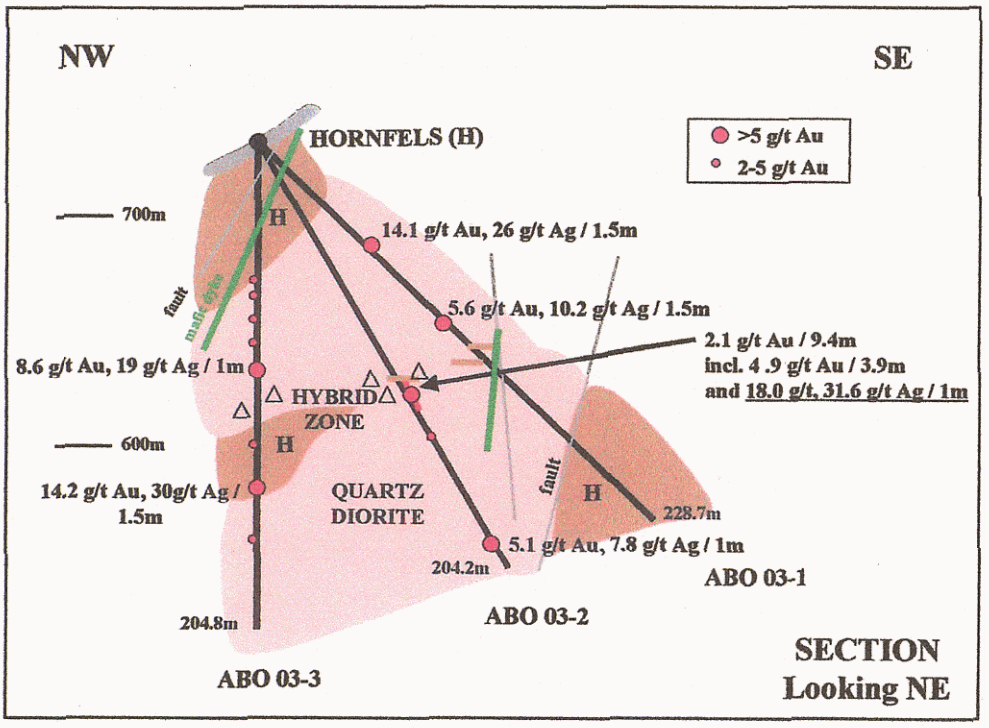

FIGURE 10: SECTION through ABO 03-1 to –3

Significant Intersections:

from (m)	to (m)	width (m)	g/t Au	g/t Ag	opt Au
61.0	62.5	1.5	14.1	25.8	0.411
114.5	116.0	1.5	5.60	10.2	0.163

DDH ABO 03-2 (Figure 10)

DDH ABO 03-2 targeted the same flat lying mineralized zone that was targeted, but not intersected in DDH ABO 03-1 by steepening the angle of the hole to –60°, from the same setup as ABO 03-1.

The hole intersected biotite hornfels from the top of the hole down to 35.4m. Tops was identified as being uphole at approximately 16.5m and 31.5m within coarser beds of biotite hornfelsed grits. A fault zone was intersected between 12 and 14.6m, followed by a mafic dyke that intrudes the hornfels between 14.6 and 16m. The remainder of the hole, to 204.2m, consists of the quartz diorite stock. Felsite dykes cut the quartz diorite but comprise less than 5% of the hole.

A central "hybrid zone" with 60% xenoliths of variably digested hornfels occurs between 116.1 and 133.7m. Approximately 5% of the zone consists of quartz and lesser quartz-calcite veins and stringers mineralized with pyrrhotite ± pyrite and lesser chalcopyrite. Pyrite stringers and pyrrhotite stringers also occur. Veins and stringers were encountered immediately below the "hybrid zone" and within a silica altered zone from 161.3 to 183.5m, but comprise only 1-2% of the interval. The veins and stringers (< 1%) persist down to the end of the hole. A quartz stringer-stockwork zone, without significant pyrrhotite, was encountered near the upper portion of the quartz diorite between 47.3 and 54.7m.

In conclusion, DDH ABO 03-2 intersected the mineralized zone, but the zone is more dispersed than the intersection encountered in HL88-130.

Significant Intersections:

from (m)	to (m)	Width (m)	g/t Au	g/t Ag	opt Au
82.7	83.7	1.0	3.6	10.7	0.106
127.8	138.2	9.4	2.1*	NA	NA
incl. 127.8	131.7	3.9	4.9*	NA	NA
incl. 130.7	131.7	1.0	18.0	31.6	0.525
154.4	155.6	1.2	4.7	8.6	0.138
197.2	198.2	1.0	5.1	7.8	0.149

* denotes weighted average

DDH ABO 03-3 (Figure 10)

ABO 03-3 was drilled to test the mineralized zone 50m to the west of the intersection in ABO 03-2 by steepening the angle of the hole to –90°, from the same setup as ABO 03-1.

The hole intersected the pendant of hornfels from the top of the hole down to 57.1m. A fault was encountered at 14.4m and a mafic dyke between 43.3 and 45.2m. A large xenolith of hornfels was intersected from 121 to 150m. The remainder of the hole consists of the quartz diorite stock. Felsite dykes intrude the hornfels and quartz diorite throughout the hole, with a high concentration (40%) within the quartz diorite from 159.6m to 163.9m.

The central "hybrid zone", encountered in ABO 03-2, was intersected between 110.5 and 119.1m. However, the zone is narrower and fewer xenoliths (25-30%) of variably digested hornfels are present in ABO 03-3. Approximately 5% of the zone consists of quartz and lesser quartz-calcite veins and stringers mineralized with pyrrhotite ± pyrite and lesser chalcopyrite. The "hybrid zone" in ABO 03-3 is followed by a large xenolith of hornfels with minor hybidization and narrow intervals of quartz diorite.

A quartz vein-stockwork zone, with 25% quartz and without significant pyrrhotite, was encountered within the pendant of hornfels between 35.6 and 38.6m. Higher pyrrhotite content, within quartz veins and stringers, was noted locally throughout the hole, associated with minor hybridized hornfels, particularly between 54.7m and 56.7m, 63.4 to 66.4m, around 102m, 129.6 to 132.6m, 146.1 to 149m and 185.4 to 187.6m.

The degree of hybridization decreases from ABO 03-2 to ABO 03-3, probably due to the presence of large xenoliths and pendants of hornfels in ABO 03-3. Although mineralization is best developed in "hybrid zones", often proximal to the contacts of the quartz diorite with the surrounding hornfels, a high percentage of hornfels as large xenoliths does not appear to be as favourable.

The mineralization in ABO 03-3 is even more dispersed than in ABO 03-2 with narrow mineralized zones throughout most of the hole from 54.7m to 168.0m.

Significant Intersections:

from (m)	to (m)	width (m)	g/t Au	g/t Ag	opt Au
54.7	55.5	0.8	4.5	5.8	0.132
65.4	66.4	1.0	2.0	2.6	0.059
79.2	80.2	1.0	2.3	10.4	0.067
91.9	92.9	1.0	3.0	5.5	0.087
102.3	103.3	1.0	8.6	18.7	0.251
128.6	129.6	1.0	2.7	7.3	0.078
146.1	147.6	1.5	14.2	29.5	0.414
167.0	168.0	1.0	3.7	15.4	0.106

DDH ABO 03-4 (Figure 11)

ABO 03-4 was drilled to test the newly discovered North Hill Stock Zone (250m north-northwest of the collar of ABO 03-1 to –3) where a grab sample of quartz vein mineralization returned assay values of 63.8 g/t (1.86 oz/t) Au with 184 g/t (5.37 oz/t) Ag. Trenching of the zone (T 03-1) intersected a relatively flat lying quartz vein trending 025°/30°E that returned 24.7 g/t (0.720 oz/t) Au with 62.3g/t (1.82 oz/t) Ag over the 20 cm incompletely exposed width. This margin of the Hill Stock has never been tested and gold grades are known to increase towards the northern margin of the Portal Stock.

Quartz diorite was intersected from the top of the hole to 15.5m, from 27.1 to 31.8m, 33.6 to 36.4m and from 40.1 to the end of the hole at 43.6m with zones of hornfels in between. The same mafic dyke, intersected in the top of ABO 03-1 and –2, was intersected between 24.1 and 27.1m.

The quartz diorite in the top of the hole to 15.5m is poorly differentiated and contains hybridized xenoliths of hornfels and 5% quartz as stringers, but without significant pyrrhotite.

No significant intersections were encountered from the limited drilling in this area.

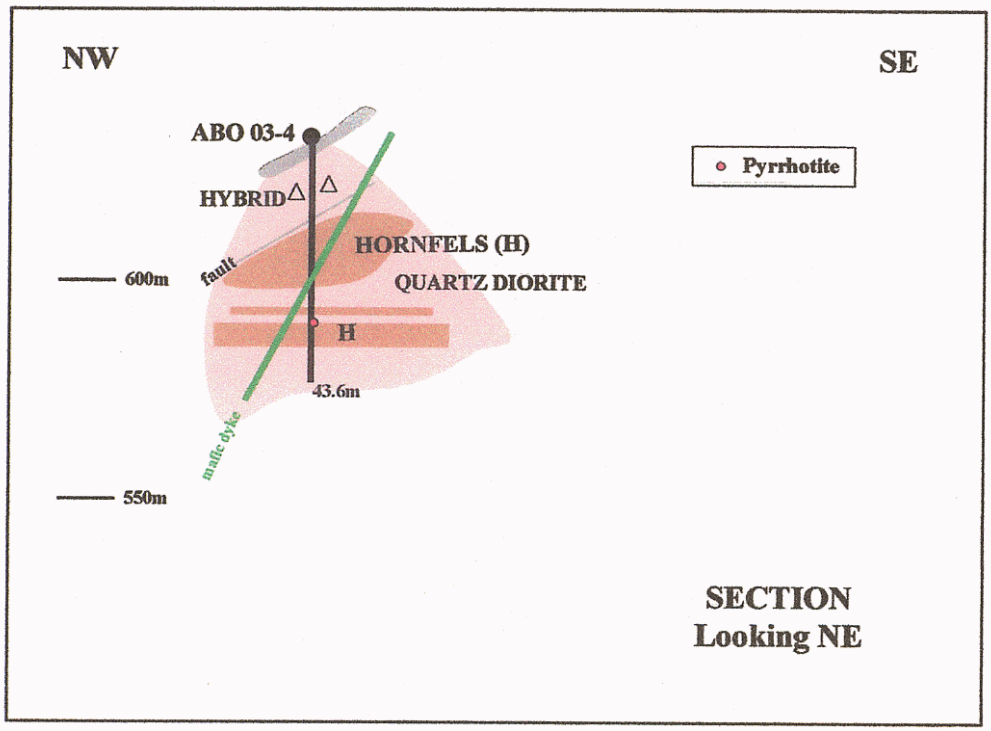

FIGURE 11: SECTION through ABO 03-4

10.0 CONCLUSIONS AND RECOMMENDATIONS

The 2003 exploration program on the Abo Gold Project resulted in the discovery of three new gold zones within the Hill Stock and adjacent Breccia Zone and the limited drill program on the Hill Stock intersected significant gold-silver mineralization. The Hill Stock is one of nine stocks identified on the property to date and additional stocks and a greater aerial extent of the existing stocks is suggested by soil geochemical and airborne geophysical surveys.

The Jenner and Portal Stocks on the Abo Gold property have a combined indicated resource of 1.8 million tonnes grading 2.8 g/t (0.08 oz/t) Au and an inferred resource of 614,000 tonnes of 2.79 g/t (0.08 oz/t) Au. Visible gold has been noted within the Lake Stock and previous drill intercepts include 3.3 g/t Au over 27m, including 8.7 g/t Au over 8.8m on the Hill Stock and 1.5 g/t Au over 29m and 8.64 g/t Au and 29.5 g/t Ag over 0.7m from the Breccia Zone.

The known sizes of the gold bearing Hill Stock and Breccia Zone were increased in 2003. Maximum values of 63.8 g/t Au with 184 g/t Ag were obtained from grab samples and 24.7 g/t Au with 62.3g/t Ag from trenching over the 0.2m incompletely exposed width at the newly discovered North Hill Stock Zone. DDH ABO 03-4 targeted the zone but no significant values were obtained. However, the hole was not completed and gold grades are known to increase towards the northern margin of the Portal Stock, which has a known resource, suggesting further potential for this area.

A second zone of quartz vein mineralization hosted by quartz diorite (Pad 2 Zone) was discovered in the north-central Hill Stock, 125m northeast of the collar of ABO 03-01 with values of 36.0 g/t Au and 51.8 g/t Ag from a grab sample and 23.1 g/t Au and 13.2 g/t Ag over 0.7m. The zone has not been drilled.

Oxidized sulphide-rich mineralization, containing pyrite, pyrrhotite, chalcopyrite and sphalerite, was discovered at the southern extension of the Breccia Zone with maximum values of 0.66 g/t Au from grab samples. The zone has not been drilled and based on previous drill results, grades are expected to improve with depth.

The drill program on the Hill Stock retumed significant gold-silver values of 14.1 g/t Au, 25.8 g/t Ag over 1.5m from DDH ABO 03-1, 4.9 g/t Au over 3.9m including 18 g/t Au, 31.6 g/t Ag over 1m in ABO 03-2 and 14.2 g/t Au, 29.5 g/t Ag over 1.5m from ABO 03-3.

An aggressive exploration program including concurrent diamond drilling, trenching, soil geochemistry and ground geophysical surveying is proposed for 2004. Drill targets include the above new gold zones on the Hill Stock and Breccia Zone and untested anomalies on the Lake Stock. In addition, numerous gold in soil anomalies from previous surveys over areas underlain by quartz diorite stocks remain to be tested and new targets that may represent additional quartz diorite stocks were identified in the airborne geophysical survey undertaken by Eagle Plains Resources Ltd. in 2001. The gold bearing Jenner and other stocks on the property were originally discovered by soil geochemistry. The excellent access and existing infrastructure add to the potential of the property.

APPENDIX I: Selected References

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APPENDIX II

STATEMENT OF CLAIMS

Tenure Number	Claim Name	Owner Number		Map Number	Work Recorded To	Area	Tag Number
235557	HOT 4	138073	100%	092H032	2006.12.26	6 un	4774
382167	ABO 1	138073	100%	092H032	2006.12.26	20 un	221001
382168	ABO 2	138073	100%	092H032	2006.12.26	9 un	221002
383387	JILL	138073	100%	092H032	2006.12.26	1 un	698761M
384241	ABO 3	138073	100%	092H032	2006.12.26	6 un	234658
384242	ABO 4	138073	100%	092H032	2006.12.26	20 un	234659
384243	ABO 5	138073	100%	092H032	2006.12.26	12 un	210556
384244	ABO 6	138073	100%	092H032	2006.12.26	1 un	702936M
384245	ABO 7	138073	100%	092H032	2006.12.26	1 un	702937M
402316	NORTH 1	145317	100%	092H032	2009.04.28	6 un	242939
402317	NORTH 2	145317	100%	092H032	2009.04.28	15 un	242938
402373	NORTH 3	145317	100%	092H032	2009.04.28	20 un	242931
402374	NORTH 4	145317	100%	092H032	2009.04.27	1 un	717681M
402375	NORTH 5	145317	100%	092H032	2009.04.27	1 un	717682M
402376	NORTH 6	145317	100%	092H032	2009.04.27	1 un	717683M
402377	NORTH 7	145317	100%	092H032	2009.04.27	1 un	717684M
402378	NORTH 9	145317	100%	092H032	2009.04.28	1 un	717686M
402379	NORTH 10	145317	100%	092H032	2009.04.28	1 un	717744M
402380	NORTH 11	145317	100%	092H032	2009.04.29	20 un	242930
402381	NORTH 12	145317	100%	092H032	2009.04.28	1 un	717692M
402382	NORTH 13	145317	100%	092H032	2009.04.30	1 un	717687M
402383	NORTH 14	145317	100%	092H032	2009.04.30	1 un	717688M
402384	NORTH 15	145317	100%	092H032	2009.04.30	1 un	717695M
402385	NORTH 16	145317	100%	092H032	2009.04.30	1 un	717696M
402386	NORTH 17	145317	100%	092H032	2009.04.30	2 un	242937

138073: Eagle Plains Resources Ltd. 145317: Northern Continental Resources Inc.

APPENDIX III
Sample Descriptions

ABO PROPERTY, British Columbia
2003 SAMPLE DESCRIPTIONS

SAMPLE	LOCATION	VEIN TREND	TYPE	GEOLOGY	Au ppb	Ag ppm	As ppm	Cu ppm
S 121754	#6 Road		soil	red soil, 100 meters up from junction with main road	5	0.6	5	146
S 121755	#6 Road		soil	red soil, collected 20 m north of 121754	15	0.6	15	188
S 121756	#6 Road		soil	red soil, collected 20 m north of 121755	25	0.8	30	256
S 121757	ABO 03-1		soil	red soil collected 50 m N of DDH ABO 03-1 about 40 m below the main road , diorite outcrop	10	1.0	30	48
121758	ABO 03-1		grab	collected from sed-diorite contact 20 m N of DDH 03-1, silicified sedimentary rock, 15% pyrite, pyrrhotite	15	<0.2	5	126
121759	ABO 03-1		float	quartz and diorite collected 5m below sample 121757, 10 % zinc 5 % pyrite, 5% pyrrhotite	10	0.2	<5	233
S 121760	Slide Stock		soil	red soil collected 20 m above the main road from lowest outcrop	20	0.2	35	154
121761	Slide Stock		grab	quartz collected from old hand trench, 20 m N of 121760, in hornfels & diorite, minor py, pyrrhotite	<5	<0.2	<5	53
121762	Pad 2 Zone		grab	quartz with minor pyrite from 0.3 m zone	36.0 g/t	51.8	5	165
S 121763	North Breccia Zone		soil	red soil collected at northeasternmost portion of Breccia Zone	10	<0.2	15	21
121764	North Breccia Zone		grab	northwesternmost portion of Breccia zone, 5% pyrite and pyrrhotite in silicified sed, chalcedony lenses and quartz lenses	25	<0.2	<5	78
121765	Trench 03-3	320/45E	rough chip	South edge of silicified argillite zone, sericite altered, silicified, bleached, m grey argillite with 5-10% fine pyrite, quartz stockwork, pods	25	0.2	5	38
121766	Trench 03-3		1m chip	3 m N of 765, sericitic, silicified, bleached argillite, 5-10% pyrite, quartz stockwork, some breccia	10	0.4	5	90
121767	Trench 03-3		grab	quartz from south side of trench	15	0.2	<5	73
121768	Trench 03-5		grab	finely pyritic brownish phyllitic hornfelsed seds, quartz stringers along foliation & as blebs	10	0.2	<5	89
121769	Trench 03-5		1.2 m channel	quartz in seds with 6-8% pyrite	15	<0.2	5.0	83
121770	Trench 03-5		1m channel	quartz in sedimentary rock with 8-10% pyrite, chlorite	10	<0.2	<5	125
121771	Trench 03-5		1m channel	quartz in seds, 8-10 % py, chlorite	5	<0.2	<5	122
121772	Trench 03-5		float	massive sulphide, 6-8 % quartz	340	3.8	<5	2847
121773	Trench 03-5		grab float	silicified seds & quartz lenses, massive sulphide up to 1 inch across, 40% pyrite	70	0.6	<5	747
121774	Trench 03-5		grab	seds with quartz, 10% py, (probable location of massive sulphide)	10	<0.2	<5	147
121775	Trench 03-3		1m channel	seds with quartz, 8-10 % pyrite	<5	<0.2	<5	63
121776	Trench 03-3		2m channel	seds & quartz, 8-10% pyrite	<5	<0.2	10	57

ABO PROPERTY, British Columbia
2003 SAMPLE DESCRIPTIONS

SAMPLE	LOCATION	VEIN TREND	TYPE	GEOLOGY	Au ppb	Ag ppm	As ppm	Cu ppm
121777	Trench 03-5		2m channel	sedimentary rock, quartz, 10% pyrite, pyrrhotite, chalcopyrite, sericite, chlorite	50	<0.2	5	114
121778	Trench 03-5		2m channel	joins 121777, same description	40	<0.2	5	126
121779	Trench 03-5		2m channel	joins 121778, same rock description	30	0.2	5	163
121780	Trench 03-5		2m channel	joins 1217179, same rock description	10	<0.2	5	62
22301	Trench 03-4		grab	0.6m massive suplphide boulder in pit , 60% pyrite, 10% pyrrhotite, 1% chalcopyrite, moderately silicified	380	3.9	<5	2317
22302	Trench 03-4	110/90	2.1m	hornfelsed phyllite, quartz with 3% pyrite	10	<0.2	<5	142
22303	Trench 03-5	030	2m	purple phyllite, 1-2% disseminated pyrite, 5% quartz with 3% pyrite	10	<0.2	10	97
22304	Trench 03-5	130/90	2m	very fine quartz & phyllite, 3% pyrrhotite	270	<0.2	5	70
22305	Trench 03-5			5% 1-3 mm quartz veins (vuggy) 10% silica, overall 3-5% disseminated pyrrhotite	10	<0.2	5	81
22306	Trench 03-5	240/30 SE		minor quartz , disseminated pyrrhotite on dip surface	10	<0.2	10	77
22307	Trench 03-5			Silicified phyllite, 20-30 cm quartz stringers, silicified, 10% pyrrhotite, trace chalcopyrite	10	<0.2	10	141
22308	Trench 03-5			silica band, dark grey hornfels, quartz, minor veins 10% pyrrhotite, 2% pyrite, trace chalcopyrite	<10	<0.2	10	185
22309	Trench 03-5	250/45NW		veins @ 250/45 NW, chl. Selvages, 16.0-17.0 strong silica, 3% pyrrhotite, 5% pyrite, trace chalcopyrite	10	<0.3	<5	125
22310	Trench 03-4		grab	quartz sweats, 5-7% pyrrhotite, trace sphalerite, weak hornfels	10	0.2	145	66
22311			grab	Diorite, 5 cm quartz vein on road east of Breccia Zone, 5% pyrrhotite 1-2% chalcopyrite, vuggy, carbonate, chlorite selvages	10	0.2	10	989
22312	Trench 03-5		2 m	sedimentary	140	<0.2	<5	133
22313	Trench 03-5		2 m	quartz diorite with 5-7cm, quartz carb veins with sulphide and chlorite selvages in hornfels	10	<0.2	<5	89
22314	Trench 03-5	120, 060	2 m	short gash veins, 2% pyrrhotite, trace pyrite	<10	<0.2	5	124
22315	Trench 03-5	130, 160, 345	2 m	hornfels, quartz veins to 5 cm, 5% pyrrhotite, 2% pyrite	<10	<0.2	10	174
22316	Trench 03-5	130	2 m	strong silicification, quartz flooded, 5-7% pyrrhotite in quartz; from 25-28m, 30% quartz veins	10	<0.2	5	82
22317	Trench 03-5	050-40/NE	2m	10cm quartz , 2-5 cm masses of pyrite, trace chalcopyrite	10	<0.2	<5	82
22318	Trench 03-5	060, 135	2m	30% quartz , 5% pyrite	10	<0.2	<5	78
22319	Trench 03-5		2m	hornfels, quartz veins with cherty selvage, 2% pyrite	10	<0.2	5	85

ABO PROPERTY, British Columbia
2003 SAMPLE DESCRIPTIONS

SAMPLE	LOCATION	VEIN TREND	TYPE	GEOLOGY	Au ppb	Ag ppm	As ppm	Cu ppm
22320	Trench 03-6		1m	hornfelsed argillite, 10% silica as sugary, crumbly quartz & carb with 5-7% py, trace pyrrhotite	10	<0.2	<5	43
22321	Trench 03-6	060, 010	2m	qrtz veined hornfels argillite/sediments	10	0.2	<5	77
22322	Trench 03-1	025/30 SE	0.4m	from area of high grade 1.8, 0.9 opt Au, -partial width only exposed-milky wte quartz vein, sericite on margins, layered, vuggy, 1/2 % moly	100	1.0	215	29
22323	Trench 03-1		0.2m	vuggy layered quartz vein, rusty with pyrite, <1/2 % arsenopyrite, 1m N of 22322	24.7 g/t	62.3	765	195
22324	Trench 03-1		0.3	hornfels host with fine disseminated pyrite and aggregates, pyrite stringers	140	2.8	80	256
22347	Pad 6	090/30 S	0.5m chip	quartz vein, drusy, Mn, limonite in vugs & druses	120	0.7	90	125
22348	ABO-03-4 site		grab	quartz diorite, minor pyrite, pyrrhotite, trace chalcopyrite	10	0.2	<5	349
22349	Pad 2 Zone	030/20 E	0.7m chip	15cm 9 vn- trace chalcopyrite & altered quartz diorite, 100m NE of ABO 03-1, layered, trace arsenopyrite & chalcopyrite, sericite alteration, rusty, GPS: 591365 /5463086	23.1 g/t	13.2	20	123
22350	ABO 03-04		grab	pyritic, drusy quartz vein (<1cm) in quartz diorite, at second sump	20	0.4	<5	146
172332	500m S of Trench 03-1		grab	altered Quartz Diorite, quartz stringers	500	0.2	10	146
172333	500m S of Trench 03-1		grab	altered Quartz Diorite	35	<0.2	<5	190
172334	500m S of Trench 03-1		grab	altered Quartz Diorite	285	0.8	25	459
172335	500m S of Trench 03-1		grab	altered Quartz Diorite	65	0.2	<5	150
172336	500m S of Trench 03-1		grab	altered Quartz Diorite	25	<0.2	<5	133
172337	Trench 03-2		grab	silicified quartz diorite breccia	5	<0.2	<5	66
172338	Trench 03-2		grab	silicified quartz diorite breccia	<5	<0.2	<5	104
172339	Trench 03-2		grab	silicified quartz diorite breccia	5	<0.2	<5	119
172340	Trench 03-2		grab	silicified quartz diorite breccia	5	<0.2	<5	205
172341	Trench 03-2		grab	silicified quartz diorite breccia	15	0.4	<5	92
172342	Trench 03-1		grab	black quartz vein with pyrite , south of 172345	2.36 g/t	20.2	<5	533
172343	Trench 03-1		grab	fine quartz stringers at quartz diorite/hornfels contact	120	0.4	<5	247
172344	Trench 03-1		grab	fine quartz stringers at quartz diorite/hornfels contact	365	0.2	<5	217
172345	Trench 03-1		grab	highly pyritic quartz vein at 7300N/11210E	31.8 g/t	70.0	6510	138
172346	Trench 03-1		grab	quartz vein, low pyrite at same location	63.8 g/t	184.0	6530	34

ABO PROPERTY, British Columbia
2003 SAMPLE DESCRIPTIONS

SAMPLE	LOCATION	VEIN TREND	TYPE	GEOLOGY	Au ppb	Ag ppm	As ppm	Cu ppm
AB-11	Trench 03-3		grab	Massive sulfide boulder with 60% pyrite and pyrrhotite, 1% chalcopyrite and 1% sphalerite.	300	3.2	<5	3179
AB-12	Trench 03-3		grab	Massive sulfide boulder with 60% pyrite and pyrrhotite, 1% chalcopyrite and 1% sphalerite.	660	3 8	<5	2214
AB-13	Trench 03-3		grab	Massive sulfide boulder with 60% pyrite and pyrrhotite, 1% chalcopyrite and 1% sphalerite.	290	2 8	<5	2528
AB-14	Trench 03-3		grab	Massive sulfide boulder with 60% pyrite and pyrrhotite, 1% chalcopyrite and 1% sphalerite.	220	2 8	<5	2163
AB-15	Trench 03-3		grab	Massive sulfide boulder with 60% pyrite and pyrrhotite, 1% chalcopyrite and 1% sphalerite.	420	3 6	<5	3226
AB-16	Trench 03-3		grab	Massive sulfide boulder with 60% pyrite and pyrrhotite, 1% chalcopyrite and 1% sphalerite.	440	4.6	<5	3376

APPENDIX IV
Geochemical Procedure and Results

Analytical Method for

GEOCHEMICAL GOLD ANALYSIS

Samples are catalogued and dried. Soils are prepared by sieving through an 80 mesh screen to obtain a minus 80 mesh fraction. Samples unable to produce adequate minus 80 mesh material are screened at a coarser fraction. These samples are flagged with the relevant mesh. Rock samples are 2 stage crushed to minus 10 mesh and a 250 gram subsample is pulverized on a ring mill pulverizer to -140 mesh. The subsample is rolled, homogenized and bagged in a prenumbered bag.

The sample is weighed to 10/15/30 grams and fused along with proper fluxing materials. The bead is digested in aqua regia and analyzed on an atomic absorption instrument. Over-range values for rocks are re-analyzed using gold assay methods.

Appropriate reference materials accompany the samples through the process allowing for quality control assessment. Results are entered and printed along with quality control data (repeats and standards). The data is faxed and/or mailed to the client.

GOLD ASSAY

Samples are sorted and dried (if necessary). The samples are crushed through a jaw crusher and cone or rolls crusher to -10 mesh. The sample is split through a Jones riffle until a -250 gram subsample is achieved. The subsample is pulverized in a ring & puck pulverizer to 95% - 140 mesh. The sample is rolled to homogenize.

A 1/2 or 1.0 A.T. sample size is fire assayed using appropriate fluxes. The resultant dore bead is parted and then digested with aqua regia and then analyzed on a Perkin Elmer AA instrument.

Appropriate standards and repeat sample (Quality Control components) accompany the samples on the data sheet.

MULTI ELEMENT ICP ANALYSIS

Samples are catalogued and dried. Soil samples are screened to obtain a -80 mesh sample. Samples unable to produce adequate -80 mesh material are screened at a coarser fraction. These samples are flagged with the relevant mesh. Rock samples are 2 stage crushed to minus 10 mesh and pulverized on a ring mill pulverizer to minus 140 mesh, rolled and homogenized.

A 0.5 gram sample is digested with aqua regia which contains beryllium which acts as an internal standerd. The sample is analyzed on a Jarrell Ash ICP unit.

Results are collated by computer and are printed along with accompanying quality control data (repeats and standards). Results are printed on a laser printer and are faxed and/or mailed to the client.

K:Methods/methicp K:methods/methaues

ECO TECH LABORATORY LTD.
10041 Dallas Drive
KAMLOOPS, B.C.
V2C 6T4

Phone: 250-573-5700
Fax : 250-573-4557

ICP CERTIFICATE OF ANALYSIS AK 2003-069

NORTHERN CONTINENTAL
305 - 455 Granville Street
Vancouver, BC
V6C 1T7

ABO 03-1

Values in ppm unless otherwise reported

Et #	Tag #	Au (ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	3001	<5	<0.2	3.11	<5	65	20	0.52	<1	30	126	103	5.96	20	2.09	662	21	0.07	36	880	10	<5	<20	36	0.54	<10	170	<10	15	105
2	3002	55	0.3	1.9	265	45	<5	0.14	<1	24	81	192	4.85	10	1.38	397	39	0.02	35	720	4	<5	<20	5	0.20	<10	88	<10	7	93
3	3003	30	0.2	4.57	185	275	5	0.62	<1	30	114	218	7.61	20	2.62	631	67	0.15	41	730	12	<5	<20	54	0.38	<10	251	<10	9	105
4	3004	<5	<0.2	5.53	45	195	10	2.32	<1	33	126	167	5.09	20	2.18	436	13	0.39	54	770	16	<5	<20	143	0.45	<10	147	<10	10	78
5	3005	<5	<0.2	2.39	45	275	10	1	<1	21	111	153	5.98	20	1.1	496	16	0.11	30	1050	6	<5	<20	93	0.37	<10	132	<10	13	87
6	3006	<5	0.2	2.67	10	65	10	0.38	<1	26	126	120	5.41	10	1.55	680	18	0.07	29	600	10	<5	<20	24	0.31	<10	149	<10	14	88
7	3007	180	0.8	1.72	1275	215	<5	0.12	<1	12	71	144	4.99	10	1.11	329	58	0.02	24	670	8	<5	<20	6	0.10	<10	55	<10	10	103
8	3008	10	<0.2	3.47	60	245	<5	0.77	<1	29	95	91	4.98	20	2.3	844	6	0.13	60	840	10	<5	<20	58	0.21	<10	138	<10	15	130
9	3009	<5	<0.2	2.37	10	30	10	0.66	<1	23	80	79	5.28	20	1.72	760	33	0.06	17	1030	8	<5	<20	14	0.38	<10	128	<10	16	95
10	3010	5	<0.2	2.39	35	110	5	0.92	<1	20	77	78	4.74	20	1.49	889	7	0.09	22	1060	12	<5	<20	26	0.22	<10	109	<10	17	108
11	3011	455	1.0	2.39	3100	70	10	0.91	<1	31	142	94	5.54	10	1.66	705	9	0.06	44	610	10	<5	<20	18	0.32	<10	136	<10	12	94
12	3012	5	<0.2	2.61	<5	85	20	0.8	<1	31	153	96	5.72	10	1.84	684	21	0.06	41	680	8	<5	<20	37	0.74	<10	186	<10	15	94
13	3013	20	0.4	3.03	55	35	5	0.96	<1	29	136	162	6.85	20	2.03	795	26	0.06	43	720	10	5	<20	73	0.40	<10	145	<10	13	113
14	3014	150	0.4	3.11	160	75	<5	2.33	<1	20	73	189	5.14	10	1.52	543	10	0.21	19	680	10	<5	<20	91	0.19	<10	101	<10	7	68
15	3015	20	0.4	2.68	40	90	<5	1.98	<1	20	79	145	4.84	10	1.59	658	20	0.15	17	720	8	<5	<20	57	0.26	<10	99	<10	8	70
16	3016	<5	0.2	4.73	5	55	10	2.94	<1	21	67	149	4.17	10	1.16	342	15	0.42	20	760	14	<5	<20	166	0.36	<10	95	<10	7	47
17	3017	30	0.2	4.87	40	80	20	3.29	<1	22	75	124	4.48	10	1.3	461	15	0.42	20	890	16	<5	<20	177	0.59	<10	102	<10	8	63
18	3018	20	0.2	2.97	<5	105	<5	3.13	<1	16	61	123	4.71	10	1.6	762	<1	0.14	19	770	8	<5	<20	120	0.18	<10	104	<10	7	59
19	3019	5	<0.2	4.81	<5	75	<5	3.11	<1	24	65	224	4.87	10	1.24	318	7	0.45	22	760	14	<5	<20	173	0.23	<10	96	<10	8	44
20	3020	>1000 (14.1)	25.8	4.00	55	35	5	2.59	<1	24	73	407	7.21	20	1.80	453	84	0.35	20	560	4	<5	<20	158	0.44	<10	121	<10	4	59
21	3021	20	<0.2	4.89	<5	120	<5	3.9	<1	24	83	191	5.06	10	1.74	885	8	0.40	23	840	20	<5	<20	157	0.35	<10	131	<10	7	63
22	3022	40	<0.2	4.51	10	75	10	4.22	<1	26	70	163	5.8	10	1.94	743	10	0.35	22	800	16	<5	<20	142	0.43	<10	144	<10	8	59
23	3023	5	<0.2	4.79	<5	75	10	3.52	<1	26	58	208	5.42	10	1.37	519	34	0.38	18	870	14	<5	<20	175	0.48	<10	116	10	8	63
24	3024	15	<0.2	6.18	5	110	25	4.22	<1	33	89	174	6.25	20	1.92	645	10	0.50	40	1280	16	<5	<20	217	0.71	<10	200	<10	7	71
25	3025	<5	<0.2	3.03	<5	65	15	1.48	<1	31	108	133	7.96	20	2.28	708	9	0.13	28	1630	6	<5	<20	29	0.59	<10	250	<10	14	89
26	3026	10	<0.2	5.88	<5	75	20	3.99	<1	27	63	191	5.39	10	1.23	348	10	0.49	21	1140	18	<5	<20	226	0.64	<10	128	10	7	54
27	3027	5	<0.2	4.74	<5	80	5	3.28	<1	23	54	224	4.66	10	1.18	405	19	0.36	19	1030	16	<5	<20	172	0.35	<10	100	<10	5	51
28	3028	<5	<0.2	5.36	<5	40	20	2.71	<1	31	78	299	7.35	30	1.75	308	12	0.55	29	1710	<2	<5	<20	185	0.45	<10	233	<10	10	52
29	3029	5	<0.2	5.51	<5	135	10	3.38	<1	14	58	98	3.09	10	0.92	234	9	0.63	19	540	<2	<5	<20	242	0.34	<10	78	<10	5	25
30	3030	15	<0.2	4.91	<5	40	25	2.22	<1	26	86	212	7.68	20	2.01	404	7	0.41	29	1540	<2	<5	<20	126	0.34	<10	270	<10	14	70
31	3031	5	<0.2	4.88	<5	40	15	2.6	<1	28	72	269	5.99	20	1.28	303	16	0.47	24	510	<2	<5	<20	167	0.35	<10	119	<10	5	37
32	3032	5	<0.2	5.35	<5	50	10	2.96	<1	22	64	195	5.21	20	1.47	314	15	0.53	18	550	<2	<5	<20	188	0.23	<10	143	<10	5	40

QC DATA:

Resplit:

1	3001	<5	<0.2	3.84	<5	80	45	0.52	<1	33	114	105	5.96	20	2.39	666	36	0.09	37	810	2	<5	<20	47	0.54	<10	192	<10	13	94

Repeat:

1	3001	<5	<0.2	3.21	<5	70	15	0.54	<1	30	128	103	6.04	20	2.15	673	18	0.08	37	880	12	<5	<20	37	0.56	<10	178	<10	15	107
10	3010	5	<0.2	2.43	40	105	10	0.94	<1	21	77	76	4.8	20	1.51	700	13	0.09	19	1060	8	<5	<20	26	0.22	<10	113	<10	17	109

JJ/ck
dt/69
XLS/03

ECO TECH LABORATORY LTD.
Jutta Jealouse
B.C. Certified Assayer

CERTIFICATE OF ASSAY AK 2003-069

NORTHERN CONTINENTAL RES.
305 - 455 Granville Street
Vancouver, BC
V6C 1T7

04-Apr-03

ATTENTION: Godfrey Walton

No. of samples received: 32
Sample type: Drill Core
Project: None Given
Shipment: None Given
Samples Submitted by: Wayne Pickett

ET #.	Tag #	Au (g/t)	Au (oz/t)
20	3020	14.10	0.411
QC DATA:			
Repeats:			
20	3020	14.00	0.408
Standard:			
PM168		2.02	0.059

ECO TECH LABORATORY LTD.
Jutta Jealouse
B.C. Certified Assayer

JJ/kk
XLS/03

###

ECO TECH LABORATORY LTD.
10041 Dallas Drive
KAMLOOPS, B.C.
V2C 6T4

Phone: 250-573-5700
Fax : 250-573-4557

ICP CERTIFICATE OF ANALYSIS AK 2003-079

NORTHERN CONTINENTAL RES.
305 - 455 Granville Street
Vancouver, BC
V6C 1T7

No. of samples received: 19
Shipment #: None Given
Samples Submitted by: Jean Pautk

Values in ppm unless otherwise reported

ABO-03-1

Et #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	3033	<0.2	5.34	<5	110	10	3.72	<1	23	66	242	5.04	20	1.21	327	10	0.52	19	580	18	<5	<20	183	0.27	<10	105	<10	5	42
2	3034	<0.2	5.52	<5	165	<5	3.75	<1	22	61	209	4.57	20	1.04	278	10	0.54	18	530	24	<5	<20	200	0.22	<10	99	<10	4	43
3	3035	<0.2	5.75	<5	130	5	3.83	<1	24	58	299	5.52	20	1.38	349	11	0.52	21	270	20	<5	<20	205	0.29	<10	125	<10	4	54
4	3036	<0.2	4.7	<5	100	<5	3.79	1	29	63	383	6.83	20	1.57	535	38	0.39	19	580	14	<5	<20	155	0.22	<10	126	<10	4	144
5	3037	<0.2	5.23	<5	140	<5	3.69	<1	23	66	226	4.79	20	1.15	337	1	0.48	20	720	20	<5	<20	195	0.2	<10	100	<10	4	44
1.5m 6	3038	10.2	4.38	<5	105	<5	3.88	<1	32	64	456	9.68	30	1.47	501	<1	0.34	19	950	10	<5	<20	145	0.25	<10	119	<10	2	55
7	3039	0.2	5.88	<5	125	10	4.67	<1	23	56	211	5.24	20	1.62	560	4	0.58	20	1040	24	<5	<20	230	0.32	<10	132	<10	3	46
8	3040	0.2	5.07	<5	95	5	4.32	<1	23	64	239	5.65	20	1.87	787	6	0.47	21	820	18	<5	<20	175	0.29	<10	149	<10	3	60
9	3041	<0.2	5.26	<5	135	10	3.63	<1	27	64	235	5.43	20	1.35	366	12	0.58	21	730	20	<5	<20	205	0.33	<10	116	<10	4	46
10	3042	<0.2	4.82	<5	125	5	3.26	<1	25	64	202	4.99	20	1.18	255	16	0.52	17	650	16	<5	<20	184	0.37	<10	109	<10	4	39
11	3043	<0.2	4.47	<5	135	10	2.88	<1	21	52	208	4.46	10	1.1	262	15	0.47	17	740	14	<5	<20	159	0.39	<10	101	<10	4	40
12	3044	<0.2	4.34	<5	65	<5	3.64	<1	14	51	123	3.29	10	0.76	312	10	0.45	16	610	16	<5	<20	173	0.15	<10	70	<10	3	32
13	3045	0.2	5.39	<5	130	10	3.95	<1	17	46	103	3.92	10	0.96	287	4	0.55	17	810	20	<5	<20	214	0.23	<10	95	<10	3	39
14	3046	<0.2	5.19	<5	105	5	3.57	<1	24	53	219	5.26	20	1.2	237	39	0.52	17	760	18	<5	<20	197	0.32	<10	100	<10	4	38
15	3047	0.2	5.74	<5	90	<5	4.74	<1	16	55	141	4.48	10	1.16	455	32	0.58	21	670	22	<5	<20	238	0.18	<10	99	<10	3	53
16	3048	0.2	5.09	220	95	<5	5.4	<1	17	47	164	4.5	10	1.36	734	3	0.43	23	770	18	<5	<20	208	0.18	<10	114	<10	3	47
17	3049	<0.2	5.83	<5	100	5	4.4	<1	22	71	143	4.92	20	1.31	408	12	0.56	24	670	24	<5	<20	236	0.31	<10	118	<10	4	52
18	3050	0.4	4.6	105	80	<5	4.69	<1	20	48	218	5.33	20	1.81	718	38	0.35	22	630	16	<5	<20	168	0.2	<10	133	<10	3	60
19	3051	1.4	3.25	7690	80	<5	3.56	<1	25	56	223	7.06	20	1.71	1834	11	0.22	18	680	12	10	<20	96	0.23	<10	112	<10	4	120
QC DATA:																													
Resplit:																													
1	3033	<0.2	5.25	<5	70	10	3.6	<1	23	63	239	4.97	20	1.19	316	12	0.53	19	580	18	<5	<20	179	0.36	<10	108	<10	4	42
Repeat:																													
1	3033	<0.2	5.36	<5	85	10	3.75	<1	24	67	240	5.04	20	1.2	332	12	0.53	19	590	20	<5	<20	183	0.38	<10	104	<10	5	44
10	3042	<0.2	4.96	<5	120	15	3.36	<1	26	64	206	5.03	20	1.2	261	20	0.55	21	830	18	<5	<20	193	0.55	<10	113	<10	4	39
Standard:																													
GEO '03		1.4	1.62	55	145	5	1.64	<1	21	66	89	3.67	20	0.95	636	<1	0.05	31	640	22	<5	<20	40	0.31	<10	56	<10	9	73

114.5-116.0

JJ/ejd
dl/79
XLS/03

ECO TECH LABORATORY LTD.
Jutta Jealouse
B.C. Certified Assayer

4-Apr-03

CERTIFICATE OF ASSAY AK 2003-069

NORTHERN CONTINENTAL DEVELOPMENT
305 - 455 Granville Street
Vancouver, BC
V6C 1T7

ET #.	Tag #	Au (g/t)	Au (oz/t)
20	3020	14.10	0.411
QC DATA:			
Repeats:			
20	3020	14.00	0.408
Standard:			
PM168		2.02	0.059

9-Apr-03

CERTIFICATE OF ASSAY AK 2003-079

ET #.	Tag #	Au (g/t)	Au (oz/t)
1	3033	<0.03	<0.001
2	3034	<0.03	<0.001
3	3035	<0.03	<0.001
4	3036	<0.03	<0.001
5	3037	<0.03	<0.001
6	3038	5.60	0.163
7	3039	0.03	0.001
8	3040	0.04	0.001
9	3041	<0.03	<0.001
10	3042	<0.03	<0.001
11	3043	<0.03	<0.001
12	3044	<0.03	<0.001
13	3045	<0.03	<0.001
14	3046	<0.03	<0.001
15	3047	<0.03	<0.001
16	3048	0.03	0.001
17	3049	<0.03	<0.001
18	3050	<0.03	<0.001
19	3051	0.77	0.022
QC DATA:			
Repeat:			
1	3033	<0.03	<0.001
10	3042	<0.03	<0.001

JJ/kk
XLS/03

ECO TECH LABORATORY LTD.
Jutta Jealouse
B.C. Certified Assayer

22-Apr-03

ECO TECH LABORATORY LTD.
10041 Dallas Drive
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V2C 6T4

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ICP CERTIFICATE OF ANALYSIS AK 2003-092

NORTHERN CONTINENTAL
305 - 455 Granville Street
Vancouver, BC
V6C 1T7

No. of samples received: 22
Sample type: Core
Project: NCR
Submitted By: Jean Pautler

ABO 03-1

Values in ppm unless otherwise reported

Et #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	20251	<0.2	5.94	<5	65	5	3.85	<1	22	61	176	4.62	<10	1.15	270	5	0.57	20	720	8	<5	<20	245	0.09	<10	103	<10	6	34
2	20252	<0.2	5.8	<5	65	5	3.64	<1	16	53	166	4.08	<10	1.07	242	78	0.52	19	760	10	<5	<20	222	0.09	<10	104	<10	6	32
3	20253	<0.2	5.05	<5	40	<5	3.35	<1	25	64	194	5.07	<10	1.3	304	38	0.45	19	840	8	<5	<20	190	0.15	<10	121	<10	8	41
4	20254	<0.2	4.59	<5	60	10	2.99	<1	19	59	162	4.56	<10	1.24	339	7	0.39	17	820	6	<5	<20	170	0.1	<10	131	<10	7	44
5	20255	<0.2	4.79	<5	80	5	3.17	<1	17	53	91	4.13	<10	1.01	280	11	0.43	16	850	8	<5	<20	166	0.09	<10	100	<10	6	36
6	20256	<0.2	4.87	<5	100	10	3.2	<1	17	55	79	4.09	<10	1	279	5	0.45	18	870	10	<5	<20	196	0.12	<10	102	<10	7	40
7	20257	<0.2	4.93	<5	60	10	3.21	<1	20	59	125	4.99	<10	1.23	324	5	0.45	18	880	8	<5	<20	190	0.14	<10	113	<10	7	50
8	20258	<0.2	4.99	<5	50	5	3.37	<1	21	68	176	5.08	<10	1.39	361	14	0.44	19	870	8	<5	<20	190	0.12	<10	116	<10	7	47
9	20259	<0.2	4.76	<5	85	5	3.06	<1	19	55	146	4.46	<10	1.16	302	27	0.43	18	870	8	<5	<20	188	0.11	<10	102	<10	6	41
10	20260	<0.2	4.67	<5	80	<5	3.06	<1	19	59	126	4.7	<10	1.2	343	10	0.4	18	920	10	<5	<20	179	0.09	<10	108	<10	7	46
11	20261	<0.2	4.41	<5	85	5	2.81	<1	19	52	101	4.39	<10	1.05	294	<1	0.39	15	880	10	<5	<20	171	0.08	<10	104	<10	7	41
12	20262	<0.2	4.32	<5	65	<5	3.4	<1	19	60	174	4.67	<10	1.42	460	547	0.35	17	810	8	<5	<20	171	0.08	<10	108	<10	7	47
13	20263	0.4	4.1	95	60	<5	3.73	<1	22	58	238	5.42	<10	1.66	607	8	0.31	20	840	6	<5	<20	152	0.06	<10	112	<10	8	51
14	20264	<0.2	4.23	170	55	5	3.76	<1	17	56	142	4.56	<10	1.59	656	5	0.33	22	920	8	<5	<20	164	0.05	<10	114	<10	7	56
15	20265	<0.2	4.95	<5	100	5	3.47	<1	17	70	72	4.32	<10	1.37	509	8	0.44	20	790	12	<5	<20	198	0.06	<10	118	<10	7	54
16	20266	<0.2	4.44	<5	110	<5	3.38	<1	16	69	133	4.06	<10	1.39	559	3	0.4	20	810	10	<5	<20	173	0.08	<10	102	<10	7	56
17	20267	0.2	4.01	200	90	<5	3.08	<1	19	56	166	4.56	<10	1.38	549	8	0.34	19	810	10	<5	<20	142	0.06	<10	108	<10	7	53
18	20268	0.2	4.32	<5	80	<5	3.42	<1	17	70	166	4.94	<10	1.61	631	11	0.36	20	810	12	<5	<20	155	0.06	<10	109	<10	7	63
19	20269	<0.2	4.11	<5	75	<5	3.37	<1	18	72	178	4.51	<10	1.37	540	16	0.35	19	750	10	<5	<20	156	0.06	<10	101	<10	7	71
20	20270	<0.2	4.24	<5	90	5	3.04	<1	18	75	85	4.25	<10	1.3	508	3	0.38	20	720	12	<5	<20	153	0.12	<10	95	<10	7	59
21	20271	<0.2	2.96	<5	80	<5	2.49	<1	16	56	115	3.54	<10	1.04	379	31	0.26	15	550	8	<5	<20	108	0.07	<10	76	<10	6	42
22	20272	<0.2	3.74	<5	80	<5	3.11	<1	16	67	108	3.95	<10	1.36	587	10	0.3	19	620	10	<5	<20	132	0.06	<10	98	<10	6	52
QC DATA:																													
Repeat:																													
1	20251	<0.2	5.99	<5	65	5	3.91	<1	23	63	175	4.69	<10	1.16	274	7	0.57	20	760	12	<5	<20	245	0.13	<10	98	<10	7	35
10	20260	<0.2	4.85	<5	90	<5	3.21	<1	20	61	129	4.83	<10	1.23	356	10	0.42	18	950	14	<5	<20	187	0.09	<10	109	<10	7	48
Resplit:																													
1	20251	<0.2	5.61	<5	70	5	3.8	<1	20	64	152	4.62	<10	1.11	271	5	0.51	19	760	22	<5	<20	222	0.11	<10	90	<10	6	37
Standard:																													
GEO '03		1.6	1.68	50	145	5	1.61	<1	20	64	82	3.58	10	0.96	615	<1	0.03	31	640	18	<5	<20	41	0.13	<10	52	<10	11	74

Jutta Jealouse
B.C. Certified Assayer

JJ/ejd
df/64
XLS/03

CERTIFICATE OF ASSAY AK 2003-092

22-Apr-03

NORTHERN CONTINENTAL DEVELOPMENT
305 - 455 Granville Street
Vancouver, BC
V6C 1T7

No. of samples received: 22
Sample type: Rock
Project #: *NCR*
Submitted By: Jean Pautler

A80-03-1

ET #.	Tag #	Au (g/t)	Au (oz/t)
1	20251	<0.03	<0.001
2	20252	<0.03	<0.001
3	20253	<0.03	<0.001
4	20254	<0.03	<0.001
5	20255	<0.03	<0.001
6	20256	<0.03	<0.001
7	20257	0.03	0.001
8	20258	<0.03	<0.001
9	20259	<0.03	<0.001
10	20260	<0.03	<0.001
11	20261	<0.03	<0.001
12	20262	<0.03	<0.001
13	20263	0.10	0.003
14	20264	0.07	0.002
15	20265	0.34	0.010
16	20266	<0.03	<0.001
17	20267	0.08	0.002
18	20268	0.04	0.001
19	20269	<0.03	<0.001
20	20270	0.03	0.001
21	20271	<0.03	<0.001
22	20272	<0.03	<0.001
QC/DATA			
Repeat:			
1	20251	0.03	0.001
10	20260	<0.03	<0.001
Resplit:			
1	20251	<0.03	<0.001
Standard:			
IM168		2.06	0.060

JJ/kk
XLS/03

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Jutta Jealouse
B.C. Certified Assayer

CERTIFICATE OF ANALYSIS AK 2003-112

16-May-03

NORTHERN CONTINENTAL RESOURCES
305 - 455 Granville Street
Vancouver, BC
V6C 1T7

ABO - 03 - 1, 2

No. of samples received: 35
Sample Type: Core
Project #: NCR
Shipment #: None given
Samples submitted by:J. Pautler

	ET #.	Tag #	Au (g/t)	Au (oz/t)
03-1	1	20273	0.04	0.001
	2	20274	0.07	0.002
	3	20275	0.02	0.001
	4	20276	0.02	0.001
	5	20277	0.01	0.000
	6	20278	0.02	0.001
	7	20279	0.03	0.001
	8	20280	0.02	0.001
	9	20281	<0.01	<0.001
	10	20282	0.01	<0.001
	11	20283	0.01	<0.001
	12	20284	<0.01	<0.001
	13	20285	<0.01	<0.001
	14	20286	<0.01	<0.001
	15	20287	<0.01	<0.001
	16	20288	<0.01	<0.001
	17	20290	<0.01	<0.001
03-2	18	20298	<0.01	<0.001
	19	20299	<0.01	<0.001
	20	20300	<0.01	<0.001
	21	20301	<0.01	<0.001
	22	20302	<0.01	<0.001
	23	20303	<0.01	<0.001
	24	20304	<0.01	<0.001
	25	20305	<0.01	<0.001
	26	20306	<0.01	<0.001
	27	20307	<0.01	<0.001
	28	20308	0.53	0.015
	29	20309	0.03	0.001
	30	20310	18.0	0.525
	31	20311	0.01	<0.001
	32	20312	<0.01	<0.001
	33	20313	0.01	<0.001
	34	20314	0.37	0.011
	35	20315	0.02	0.001
QC DATA:				
Resplit:				
	1	20273	0.01	<0.001
Repeat:				
	1	20273	0.01	<0.001
	10	20282	<0.01	<0.001
	19	20299	0.01	<0.001
Standard:				
STD-M			1.4	0.041

JJ/kk
XLS/03

ECO TECH LABORATORY LTD.
Jutta Jealouse
B.C. Certified Assayer

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A80 03-1,2

ICP CERTIFICATE OF ANALYSIS AK 2003-112

NORTHERN CONTINENTAL RESOURCES
305 - 455 Granville Street
Vancouver, BC
V6C 1T7

ATTENTION: Jean Pautler

No. of samples received: 35
Sample type: Core
Project: NCR
Shipment: None given

Values in ppm unless otherwise reported

	Et #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
03-1	1	20273	0.2	3.15	15	65	<5	2.91	<1	16	90	157	4.04	<10	1.49	1094	16	0.17	19	550	2	<5	<20	116	0.02	10	97	<10	6	54
	2	20274	0.2	0.76	20	55	<5	0.97	<1	6	85	79	1.95	<10	0.51	754	11	0.02	7	340	<2	<5	<20	8	<0.01	20	22	<10	5	38
	3	20275	0.2	2.60	<5	90	<5	1.72	<1	12	60	180	3.33	<10	0.92	383	14	0.24	12	400	4	<5	<20	88	0.05	20	55	<10	6	35
	4	20276	<0.2	3.41	<5	185	10	2.31	<1	13	67	25	3.22	<10	0.98	456	7	0.39	14	700	4	<5	<20	146	0.12	10	68	<10	7	40
	5	20277	<0.2	2.43	<5	110	10	2.04	<1	13	63	75	4.37	10	1.09	329	9	0.22	13	3720	<2	<5	<20	51	0.12	10	62	<10	16	44
	6	20278	<0.2	3.35	<5	<5	10	1.14	<1	18	109	125	>10	20	2.47	791	<1	0.08	17	3970	<2	<5	<20	27	0.11	20	182	<10	22	88
	7	20279	<0.2	2.29	<5	5	<5	2.08	<1	20	87	277	9.87	20	1.56	559	<1	0.11	15	4240	<2	<5	<20	50	0.09	10	125	<10	20	59
	8	20280	0.2	2.82	<5	15	<5	1.48	<1	21	92	218	8.50	<10	1.69	520	4	0.17	25	1190	<2	<5	<20	42	0.13	20	187	<10	15	82
	9	20281	<0.2	2.58	<5	15	5	1.48	<1	24	86	152	6.89	<10	1.78	449	2	0.18	28	1330	<2	<5	<20	37	0.16	10	169	<10	15	70
	10	20282	0.2	2.28	<5	85	<5	1.83	<1	16	89	177	8.27	<10	1.98	719	5	0.05	32	1120	<2	<5	<20	31	0.05	20	208	<10	9	87
	11	20283	0.2	2.20	<5	5	<5	2.06	<1	20	88	216	7.79	10	1.68	549	6	0.09	32	1920	<2	<5	<20	64	0.09	10	216	<10	13	89
	12	20284	<0.2	2.56	<5	35	5	1.00	<1	23	72	114	5.65	<10	2.15	543	2	0.09	19	800	<2	<5	<20	34	0.14	20	191	<10	10	54
	13	20285	<0.2	2.23	<5	20	5	0.73	<1	22	59	109	5.06	<10	1.69	379	5	0.14	16	320	<2	<5	<20	35	0.17	20	147	<10	8	47
	14	20286	<0.2	1.20	<5	30	<5	1.25	<1	22	51	191	4.15	<10	0.62	199	14	0.09	14	830	<2	<5	<20	68	0.10	20	57	<10	7	47
	15	20287	<0.2	3.20	<5	205	5	1.61	<1	22	75	121	4.36	<10	1.76	353	10	0.27	21	290	6	<5	<20	75	0.13	20	185	<10	7	38
	16	20288	<0.2	2.56	<5	75	5	0.99	<1	22	75	116	5.37	<10	2.03	381	4	0.15	22	830	<2	<5	<20	26	0.13	10	176	<10	10	55
	17	20290	0.2	2.02	<5	15	<5	1.09	<1	20	87	158	6.77	<10	1.44	256	16	0.11	29	1970	<2	<5	<20	60	0.11	10	176	<10	11	69
03-2	18	20298	<0.2	6.25	10	90	5	4.34	<1	16	115	125	3.40	<10	0.89	321	30	0.59	21	680	12	<5	20	278	0.09	<10	88	<10	6	31
	19	20299	<0.2	3.94	5	150	5	2.93	<1	22	60	153	4.75	10	1.15	349	2	0.35	24	3900	4	<5	<20	145	0.12	<10	128	<10	10	40
	20	20300	<0.2	3.52	<5	50	<5	1.71	<1	38	76	284	8.70	10	2.10	534	3	0.22	23	3020	<2	<5	<20	60	0.28	10	192	<10	18	77
	21	20301	<0.2	2.80	5	95	<5	1.54	<1	25	54	242	6.54	<10	1.68	567	2	0.18	16	1070	<2	<5	<20	47	0.16	10	145	<10	9	61
	22	20302	<0.2	2.72	<5	30	<5	1.25	<1	32	70	287	6.86	<10	1.66	397	22	0.20	16	1150	<2	<5	<20	45	0.17	10	135	<10	10	57
	23	20303	<0.2	3.51	<5	35	<5	1.97	<1	33	57	332	6.53	<10	1.54	307	7	0.29	18	1790	4	<5	<20	73	0.17	<10	125	<10	13	46
	24	20304	<0.2	3.02	<5	10	10	1.17	<1	29	93	271	>10	10	2.00	448	12	0.16	26	2440	<2	<5	<20	25	0.15	20	265	<10	21	60
	25	20305	<0.2	2.65	<5	20	<5	1.33	<1	22	96	251	>10	10	1.60	269	12	0.18	24	2450	<2	<5	<20	45	0.10	20	262	<10	14	50

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ICP CERTIFICATE OF ANALYSIS AK 2003-121

NORTHERN CONTINENTAL RESOURCES
305 - 455 Granville Street
Vancouver, BC
V6C 1T7

ATTENTION: Jean Pautler

No. of samples received: 10
Sample type:Core

ABO 03-1,2

Values in ppm unless otherwise reported

	Et #.	Tag #	Au(ppb	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
03-1	1	20291	<5	<0.2	2.09	<5	120	<5	0.63	<1	11	81	104	5.34	<10	1.96	475	2	0.06	22	940	6	<5	<10	14	0.14	<10	188	<10	5	90
	2	20292	<5	<0.2	3.15	<5	150	<5	1.15	<1	15	97	110	5.14	<10	2.17	400	8	0.20	27	560	6	<5	<10	22	0.15	<10	205	<10	5	97
	3	20293	<5	<0.2	4.06	<5	220	<5	1.71	1	14	89	88	5.07	<10	2.54	520	6	0.28	26	320	5	5	<10	47	0.15	<10	216	<10	4	142
	4	20294	<5	<0.2	2.57	<5	350	<5	1.53	<1	13	82	58	4.18	<10	2.07	510	6	0.15	33	620	4	5	<10	24	0.16	<10	118	<10	6	87
	5	20295	<5	<0.2	1.24	<5	260	<5	0.37	<1	9	68	53	3.45	<10	1.25	275	4	0.05	14	580	5	<5	<10	5	0.13	<10	104	<10	6	78
	6	20316	<5	<0.2	4.15	45	70	<5	3.85	<1	14	37	249	5.56	<10	1.70	715	38	0.23	5	730	6	5	<10	179	0.09	<10	135	<10	4	57
	7	20317	<5	<0.2	4.49	<5	190	<5	2.68	<1	11	68	121	4.29	<10	1.01	350	22	0.40	5	810	2	5	<10	193	0.14	<10	121	<10	3	46
	8	20318	5	<0.2	4.93	65	160	<5	3.02	<1	11	43	145	4.25	<10	1.05	340	12	0.45	4	840	4	<5	<10	218	0.12	<10	112	<10	2	41
	9	20319	<5	<0.2	5.11	<5	160	<5	3.22	<1	12	56	185	4.55	<10	1.26	380	78	0.48	4	850	4	<5	<10	220	0.15	<10	131	<10	3	48
4.7 Au	10	20320	>1000	8.6	4.21	335	120	<5	3.32	<1	15	52	209	5.36	<10	1.30	505	16	0.34	5	720	8	10	<10	177	0.11	<10	130	<10	3	50
	QC DATA:																														
	Reaplit:																														
	1	20291	<5	<0.2	2.09	<5	120	<5	0.63	<1	11	81	104	5.34	<10	1.96	475	2	0.06	22	940	6	<5	<10	14	0.14	<10	188	<10	5	90
	Standard:																														
	GEO '03		120	1.4	1.72	50	160	<5	1.67	<1	21	65	109	3.61	20	1.01	647	1.5	0.06	31	670	22	<5	<20	43	0.12	<10	77	<10	11	71

JJ/kk
XLS/03

ECO TECH LABORATORY LTD.
Jutta Jealouse
B.C. Certified Assayer

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ICP CERTIFICATE OF ANALYSIS AK 2003-135

NORTHERN CONTINENTAL RESOURCES
305 - 455 Granville Street
Vancouver, BC
V6C 1T7

ATTENTION: Jean Pautler

No. of samples received: 23
Sample type: Core
Project: NCR

Values in ppm unless otherwise reported

AGO 03-2

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	20321	5	0.9	4.57	<5	75	<5	3.06	<1	23	52	127	3.26	<10	0.98	337	4	0.43	18	720	6	<5	<20	166	0.06	<10	109	<10	4	36
2	20322	5	0.3	4.53	<5	75	<5	3.02	<1	18	54	114	3.78	<10	1.04	353	7	0.43	16	790	4	<5	<20	165	0.06	<10	125	<10	5	41
3	20323	95	0.6	4.46	<5	55	<5	3.45	<1	20	60	128	4.23	<10	1.37	527	7	0.42	18	760	6	<5	<20	159	0.06	<10	130	<10	5	44
4	20324	5	<0.2	4.56	<5	50	<5	2.97	<1	19	53	139	3.7	<10	0.92	256	12	0.48	15	880	4	<5	<20	172	0.06	<10	110	<10	5	33
5	20325	60	1.2	3.64	<5	60	<5	4.22	11	22	74	193	5.36	<10	1.75	1170	16	0.23	20	1000	116	<5	<20	119	0.18	<10	123	<10	8	525
6	20326	5	0.5	4.15	<5	30	<5	3.11	<1	21	68	186	4.83	<10	1.27	398	310	0.39	17	710	72	<5	<20	148	0.05	<10	113	<10	8	46
7	20327	5	0.4	5.39	<5	35	<5	3.3	<1	26	61	228	4.63	<10	1.52	304	107	0.54	17	950	6	<5	<20	191	0.05	<10	143	10	8	42
8	20328	5	0.3	4.54	<5	30	<5	3.44	1	30	67	417	7.24	<10	1.35	349	102	0.44	19	860	4	<5	<20	173	0.06	<10	98	<10	6	56
9	20329	5	<0.2	5.64	<5	50	<5	4.11	<1	18	60	191	4.16	<10	1.1	315	8	0.59	19	820	4	<5	<20	229	0.05	<10	92	<10	6	32
10	20330	5	<0.2	5.5	<5	45	<5	3.79	<1	15	66	155	3.45	<10	0.8	206	51	0.6	19	770	4	<5	<20	236	0.05	<10	77	<10	4	28
11	20331	5	<0.2	6.49	<5	55	<5	4.44	<1	16	63	162	3.31	<10	0.67	157	3	0.71	18	690	4	<5	<20	283	0.05	<10	65	<10	4	22
12	20332	5	<0.2	5.86	<5	55	<5	4.32	<1	15	59	165	3.59	<10	0.91	269	269	0.6	19	690	10	<5	<20	247	0.04	<10	73	<10	4	35
13	20333	5	<0.2	6.53	10	45	<5	4.43	<1	16	72	144	3.5	<10	0.82	192	34	0.87	20	680	6	<5	<20	271	0.06	<10	80	<10	5	27
14	20334	5	<0.2	6.6	5	60	<5	4.53	<1	14	63	109	3.3	<10	0.73	167	5	0.66	21	670	4	<5	<20	281	0.05	<10	72	<10	4	23
15	20335	5	<0.2	6.25	<5	65	<5	4.25	<1	15	61	105	3.44	<10	0.83	210	17	0.61	19	730	4	<5	<20	261	0.05	<10	79	<10	5	29
16	20336	45	0.4	6.36	<5	55	<5	4.62	<1	13	55	129	3	<10	0.82	264	5	0.59	20	660	62	<5	<20	267	0.04	<10	67	<10	4	46
17	20337	5	<0.2	2.33	<5	85	<5	2.03	<1	10	67	59	2.37	<10	0.58	223	9	0.22	10	450	4	<5	<20	89	0.04	<10	53	<10	4	28
18	20338	10	<0.2	4.86	<5	45	<5	3.25	<1	21	59	118	4.44	<10	1.03	254	8	0.41	18	960	4	<5	<20	185	0.06	<10	104	<10	5	39
19	20339	5	<0.2	4.72	<5	70	<5	3.4	<1	19	72	83	4.41	<10	1.11	348	11	0.39	17	1090	6	<5	<20	180	0.10	<10	113	<10	6	56
20	20340	5	<0.2	4.65	<5	50	<5	3.08	<1	19	58	112	4.11	<10	0.99	257	19	0.4	16	950	6	<5	<20	174	0.11	<10	92	<10	6	47
21	20341	10	<0.2	4.89	<5	40	<5	3.73	<1	23	68	159	4.29	<10	1.14	329	23	0.4	20	980	6	<5	<20	191	0.08	<10	85	<10	6	43
22	20342	5	<0.2	5.02	<5	65	<5	3.74	<1	20	85	122	4.23	<10	1.32	435	10	0.42	21	1110	6	<5	<20	194	0.09	<10	106	<10	6	51
5-(23	20343	>1000	7.8	3.93	<5	55	<5	3.4	<1	17	72	116	4.4	<10	1.18	530	12	0.3	18	960	7	<5	<20	145	0.06	<10	85	<10	5	53

QC DATA:

Resplit:

1	20321	5	0.6	4.61	5	70	<5	3.28	<1	21	56	123	3.5	<10	1	356	5	0.43	19	820	6	<5	<20	167	0.14	<10	100	<10	5	41

Repeat:

1	20321	5	1.0	4.63	<5	70	<5	3.2	<1	28	54	125	3.37	<10	1	348	5	0.45	18	770	4	<5	<20	168	0.07	<10	111	<10	5	38
10	20330	5	<0.2	5.65	<5	45	<5	3.97	<1	16	69	154	3.59	<10	0.81	212	51	0.6	19	810	4	<5	<20	241	0.08	<10	71	<10	5	30

Standard:

GEO'03		120	1.5	1.56	55	135	<5	1.59	<1	21	59	87	3.38	<10	0.94	621	<1	0.02	30	760	22	<5	<20	38	0.12	<10	53	<10	10	75

JJ/kk
df/135
XLS/03

ECO TECH LABORATORY LTD.
Jutta Jealouse
B.C. Certified Assayer

CERTIFICATE OF ASSAY AK 2003-121

NORTHERN CONTINENTAL RESOURCES
305 - 455 Granville Street
Vancouver, BC
V6C 1T7

9-May-03

No. of samples received: 10
Sample type:Core

ABO 03-2

ET #.	Tag #	Au (g/t)	Au (oz/t)
10	20320	4.72	0.138

CERTIFICATE OF ASSAY AK 2003-135

NORTHERN CONTINENTAL RESOURCES
305 - 455 Granville Street
Vancouver, BC
V6C 1T7

No. of samples received: 23
Sample type: Core
Project: NCR

ABO 03-2

ET #.	Tag #	Au (g/t)	Au (oz/t)
23	20343	5.10	0.149

CERTIFICATE OF ASSAY AK 2003-340

NORTHERN CONTINENTAL RESOURCES
305 - 455 Granville Street
Vancouver, BC
V6C 1T7

8-Sep-03

ABO 03-3

No. of samples received: 39
Sample type: Core

ET #.	Tag #	Au (g/t)	Au (oz/t)		
15	20403	2.68	0.078	1.0m	po, gtz po str
21	20409	14.2	0.414	1.5m	qv po cp asp4
26	20414	3.65	0.106	1.0m	Qtz Dior / fel dys

QC/DATA
Standard:

PM906	5.56	0.162

JJ/kk
XLS/03

ECO TECH LABORATORY LTD.
Jutta Jealouse
B.C. Certified Assayer

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ICP CERTIFICATE OF ANALYSIS AK 2003-142

NORTHERN CONTINENTAL RESOURCES
305 - 455 Granville Street
Vancouver, BC
V6C 1T7

ATTENTION: Jean Pautler

No. of samples received: 10
Sample type: Core
Project: None Given

ABO 03-2

Values in ppm unless otherwise reported

Et #.	Tag #	Au (ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Z
1	20344	<5	<0.2	5.68	<5	60	5	4.03	<1	21	83	95	4.47	<10	1.18	371	16	0.5	24	1170	4	<5	<20	229	0.11	<10	104	<10	7	5
2	20345	<5	<0.2	5.57	10	65	10	3.82	<1	19	85	74	4.18	<10	1.13	336	23	0.51	24	1130	2	<5	<20	224	0.11	<10	99	<10	7	4
3	20346	<5	<0.2	5.49	10	40	10	3.93	<1	19	83	113	4.57	<10	1.36	407	6	0.48	26	1150	2	<5	<20	213	0.11	<10	100	<10	8	5
4	20347	25	<0.2	5.1	<5	30	<5	4.19	<1	19	83	154	4.78	<10	1.44	514	19	0.43	25	1070	2	<5	<20	192	0.07	<10	104	<10	7	6
5	20348	15	0.2	2.28	60	50	10	0.32	<1	24	119	121	5	<10	1.42	445	99	0.04	38	760	3	10	<20	24	0.17	<10	86	<10	12	11
6	20349	150	1.6	1.74	450	60	<5	0.22	<1	20	109	101	4.49	<10	1.34	401	137	0.03	28	820	7	10	<20	4	0.03	<10	89	<10	10	16
7	20350	5	0.2	1.79	15	25	<5	0.92	<1	17	107	110	4.2	<10	1.29	475	22	0.05	27	1050	3	5	<20	10	0.12	<10	74	<10	12	8
8	20351	10	0.4	2.3	390	280	10	0.34	<1	20	146	67	5.41	<10	1.61	530	55	0.04	31	740	4	10	<20	8	0.13	<10	111	<10	13	46
9	20352	5	<0.2	4.2	245	50	<5	1.93	<1	32	116	271	6.54	10	1.68	525	16	0.25	32	1110	3	5	<20	100	0.17	<10	121	<10	13	8
10	20353	10	<0.2	4.99	165	70	<5	2.75	<1	24	79	197	5.2	<10	1.48	500	11	0.35	21	1210	4	<5	<20	159	0.12	<10	113	<10	9	11
QC DATA:																														
Resplit:																														
1	20344	<5	<0.2	5.64	<5	60	5	4.13	<1	20	60	97	4.54	<10	1.18	382	22	0.49	24	1210	3	<5	<20	222	0.11	<10	102	<10	7	5
Repeat:																														
1	20344	<5	<0.2	5.75	<5	50	5	4.17	<1	22	89	95	4.59	<10	1.18	386	21	0.51	26	1190	3	10	<20	229	0.12	<10	101	<10	8	5
Standard:																														
GEO'03		125	1.4	1.69	70	145	<5	1.76	<1	22	66	83	3.92	10	0.98	669	2	0.02	31	800	18	20	<20	44	0.10	<10	73	<10	11	8

JJ/kk
df/138
XLS/03

ECO TECH LABORATORY LTD.
Jutta Jealouse
B.C. Certified Assayer

######

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ICP CERTIFICATE OF ANALYSIS AK 2003-184

NORTHERN CONTINENTAL RESOURCES
305 - 455 Granville Street
Vancouver, BC
V6C 1T7

ATTENTION: Godfrey Walton / Jean Pautle

No. of samples received: 34
Sample type: Core

Values in ppm unless otherwise reported

A60 03-2, 3

	Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
	1	20354	10	<0.2	3.67	35	80	<5	1.9	<1	18	70	183	4.14	10	1.4	405	8	0.33	17	730	6	<5	<20	127	0.22	<10	138	<10	7	55
	2	20355	10	<0.2	3.55	5	65	<5	1.98	<1	25	68	273	5.01	10	1.37	346	36	0.34	20	710	<2	<5	<20	125	0.18	<10	132	<10	6	47
	3	20356	100	0.5	3.44	120	90	<5	1.31	<1	20	62	222	4.52	10	1.57	714	10	0.23	15	650	<2	<5	<20	104	0.18	<10	137	<10	6	83
	4	20357	5	<0.2	4.38	<5	75	<5	2.64	<1	19	65	191	3.86	10	1.31	334	5	0.44	18	690	2	<5	<20	163	0.16	<10	122	<10	5	49
	5	20358	5	<0.2	4.22	<5	90	<5	2.49	<1	20	72	231	4.06	10	1.26	268	21	0.43	19	670	4	<5	<20	173	0.2	<10	124	<10	4	38
	6	20359	675	0.6	3.78	30	95	<5	1.86	1	21	67	194	4.1	10	1.23	318	57	0.34	18	650	4	<5	<20	185	0.18	<10	120	<10	5	72
	7	20360	15	<0.2	4.35	<5	130	<5	2.54	<1	18	62	157	3.81	10	1.09	296	<1	0.45	17	790	6	<5	<20	181	0.14	<10	125	<10	4	43
	8	20361	5	<0.2	4.1	<5	100	<5	2.52	<1	20	56	189	3.61	10	1.03	296	10	0.42	15	720	4	<5	<20	171	0.13	<10	118	<10	3	38
	9	20362	5	<0.2	4.58	<5	115	<5	2.66	<1	22	52	216	3.97	10	1.14	306	<1	0.46	17	770	8	<5	<20	178	0.14	<10	127	<10	4	43
3.62	10	20363	>1000	10.7	3.02	15	70	<5	2.87	<1	17	61	273	6.39	20	1.94	813	1	0.13	17	790	<2	<5	<20	66	0.1	<10	149	<10	2	63
	11	20364	30	<0.2	4.5	<5	95	<5	3.1	<1	27	57	159	5.19	20	1.48	602	2	0.38	17	820	4	<5	<20	167	0.15	<10	152	<10	3	58
	12	20365	25	0.6	5.1	55	80	<5	5.26	<1	17	54	248	4.89	20	1.21	1097	25	0.44	21	880	14	<5	<20	259	0.11	<10	120	<10	4	48
	13	20366	75	0.7	2.24	1555	195	<5	0.13	<1	21	85	205	7.73	40	1.5	247	45	0.01	48	440	<2	<5	<20	15	0.09	<10	70	<10	9	127
	14	20367	640	1.4	2.49	335	125	<5	0.17	<1	22	112	88	5.46	10	1.68	555	119	0.03	32	510	<2	<5	<20	3	0.19	<10	177	<10	9	84
	15	20368	5	<0.2	1.94	5	75	<5	0.3	<1	20	78	109	4.12	10	1.41	396	25	0.05	33	650	<2	<5	<20	4	0.18	<10	189	<10	9	92
	16	20369	10	0.2	2.1	30	100	<5	1.1	<1	20	79	69	4.36	10	1.52	530	7	0.03	29	560	4	<5	<20	18	0.21	<10	146	<10	8	78
	17	20370	5	<0.2	2.52	<5	60	<5	0.5	<1	23	87	107	4.97	20	1.67	471	28	0.09	25	620	6	<5	<20	19	0.57	<10	158	<10	10	76
	18	20371	5	<0.2	2.07	<5	65	<5	0.82	<1	23	67	132	5.68	20	1.78	510	30	0.05	24	1270	<2	<5	<20	11	0.18	<10	225	<10	10	70
4.52	19	20372	>1000	5.8	3.19	55	30	<5	1.74	<1	48	103	1099	>10	40	2.43	1021	34	<0.01	27	360	<2	<5	<20	24	0.2	<10	335	<10	4	96
	20	20373	20	0.5	2	<5	50	<5	2.22	<1	31	100	476	7.45	30	1.66	490	78	0.09	29	5090	<2	<5	<20	7	0.17	<10	238	<10	13	58
	21	20374	30	0.2	2.59	<5	45	<5	1.22	<1	30	103	365	9.56	30	2.1	427	15	0.11	29	610	<2	<5	<20	25	0.17	<10	286	<10	5	69
	22	20375	10	<0.2	3.69	<5	120	<5	2.23	<1	18	65	104	4.05	10	1.31	421	<1	0.37	17	830	2	<5	<20	125	0.16	<10	146	<10	5	49
	23	20376	5	<0.2	4.12	<5	135	<5	2.5	<1	17	61	119	3.93	10	1.06	379	1	0.44	17	840	4	<5	<20	167	0.15	<10	122	<10	5	45
	24	20377	10	<0.2	4.41	<5	125	<5	2.74	<1	18	57	129	4.29	10	1.09	364	5	0.47	17	910	4	<5	<20	185	0.15	<10	127	<10	5	42
2.04	25	20378	>1000	2.6	3.21	455	75	<5	2.49	<1	17	61	265	5.83	20	1.04	426	<1	0.29	15	750	<2	<5	<20	127	0.13	<10	105	<10	4	146

ABo 03-3

NORTHERN CONTINENTAL RESOURCES **ICP CERTIFICATE OF ANALYSIS AK 2003-184** **ECO TECH LABORATORY LTD.**

	Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
	26	20379	10	<0.2	3.73	<5	140	<5	2.42	<1	14	62	146	3.62	10	1.05	367	<1	0.39	15	880	4	<5	<20	144	0.14	<10	133	<10	4	47
	27	20380	5	<0.2	3.57	<5	100	<5	2.72	<1	16	49	69	4.25	10	1.15	409	85	0.33	13	790	6	<5	<20	137	0.13	<10	124	<10	5	45
2.3	28	20381	>1000	10.4	3.91	<5	40	<5	2.6	<1	31	63	987	6.73	20	1.06	264	4	0.42	19	750	4	<5	<20	153	0.18	<10	108	<10	5	46
2.98	29	20382	>1000	5.5	3.6	<5	80	<5	2.43	<1	24	46	194	6.24	20	1.15	362	51	0.32	15	770	4	<5	<20	127	0.18	<10	134	<10	5	47
1.80	30	20383	>1000	5.8	3.66	<5	135	<5	3.7	3	20	54	158	5.13	10	1.74	852	<1	0.26	21	760	8	<5	<20	112	0.13	<10	166	<10	5	147
	31	20384	20	<0.2	3.51	<5	130	<5	2.37	<1	18	48	108	3.95	10	1.04	344	48	0.35	14	830	10	<5	<20	118	0.14	<10	139	<10	5	42
	32	20385	15	<0.2	3.58	<5	145	<5	2.21	<1	19	53	106	3.92	10	1.03	335	8	0.34	15	810	8	<5	<20	120	0.15	<10	139	<10	5	43
8.6	33	20386	>1000	18.7	3.16	845	55	<5	3.06	<1	18	48	327	5.82	20	1.23	477	43	0.22	16	780	24	<5	<20	108	0.12	<10	102	<10	5	59
	34	20387	15	<0.2	4.69	<5	80	<5	3.18	<1	26	54	282	5.29	10	1.24	348	6	0.4	16	1010	10	<5	<20	176	0.15	<10	139	<10	4	45
	QC DATA:																														
	Resplit:																														
	1	20354	15	<0.2	3.49	30	75	<5	2.07	<1	19	73	176	4.4	10	1.34	423	6	0.29	18	740	8	<5	<20	111	0.16	<10	137	<10	8	59
	Repeat:																														
	1	20354	15	<0.2	3.59	40	75	<5	1.87	<1	18	89	180	4.1	10	1.38	399	8	0.32	18	720	6	<5	<20	121	0.16	<10	135	<10	7	55
	10	20363	>1000	9.8	3	10	70	<5	2.85	<1	17	60	279	6.35	20	1.94	805	1	0.13	17	770	2	<5	<20	67	0.1	<10	148	<10	2	61
	19	20372	>1000	6.9	3.01	75	30	<5	1.72	<1	49	99	1072	>10	40	2.29	984	35	<0.01	28	400	<2	<5	<20	20	0.19	<10	321	<10	5	94
	28	20381	>1000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	29	20382	-	5.4	3.76	<5	45	<5	2.57	<1	29	65	934	6.73	20	1.04	270	3	0.39	16	760	6	<5	<20	143	0.17	<10	109	<10	5	47
	Standard:																														
	GEO'03		120	1.2	1.71	50	160	<5	1.7	<1	21	63	88	3.86	20	0.99	654	<1	0.02	33	700	18	<5	<20	46	0.15	<10	94	<10	10	61

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ICP CERTIFICATE OF ANALYSIS AK 2003-340

NORTHERN CONTINENTAL RESOURCES
305 - 455 Granville Street
Vancouver, BC
V6C 1T7

ATTENTION: Jean Pautler

No. of samples received: 39
Sample type: Core
Project: None Given

AB0 03-3

Values in ppm unless otherwise reported

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	20389	<5	<0.2	4.96	<5	170	5	3.23	<1	18	54	143	4.21	20	1.02	302	8	0.51	14	950	24	<5	<20	210	0.11	<10	129	<10	5	46
2	20390	5	<0.2	4.50	<5	165	<5	3.24	<1	20	56	162	4.89	30	1.32	287	8	0.43	20	2620	28	<5	<20	148	0.10	<10	125	<10	8	51
3	20391	15	<0.2	4.38	70	195	<5	2.64	<1	21	65	81	5.38	20	1.71	440	<1	0.36	22	1000	26	<5	<20	138	0.11	<10	186	<10	4	65
4	20392	5	<0.2	3.30	<5	90	<5	3.29	<1	34	81	365	7.88	40	1.51	405	<1	0.28	21	8240	16	<5	<20	96	0.14	<10	191	<10	15	66
5	20393	15	<0.2	3.83	<5	95	<5	2.38	<1	32	57	351	6.98	30	1.36	402	3	0.33	16	760	18	<5	<20	128	0.10	<10	160	<10	4	63
6	20394	<5	<0.2	4.21	<5	180	5	2.68	<1	28	65	173	6.83	30	1.15	367	<1	0.39	14	1410	24	<5	<20	150	0.14	<10	170	<10	8	69
7	20395	<5	<0.2	4.00	<5	170	<5	2.54	<1	18	56	204	4.43	20	1.09	325	<1	0.36	14	860	24	<5	<20	134	0.13	<10	115	<10	7	46
8	20396	<5	<0.2	3.06	<5	65	<5	1.77	<1	23	84	128	6.04	30	1.81	399	162	0.31	17	1290	20	<5	<20	62	0.13	<10	118	<10	10	66
9	20397	<5	<0.2	1.37	<5	105	<5	0.66	<1	11	64	57	2.81	10	0.73	251	2	0.11	8	380	8	<5	<20	19	0.09	<10	33	<10	8	34
10	20398	<5	<0.2	2.38	<5	65	<5	1.07	<1	23	97	298	8.08	30	1.37	481	10	0.17	22	830	10	<5	<20	32	0.18	<10	190	<10	15	79
11	20399	205	1.1	2.25	25	65	<5	2.60	<1	27	79	595	>10	40	1.58	848	21	0.05	28	980	10	<5	<20	17	0.03	<10	109	<10	10	92
12	20400	10	<0.2	2.08	<5	65	<5	0.85	<1	20	91	271	8.07	30	1.35	515	<1	0.09	21	1250	12	<5	<20	9	0.09	<10	147	<10	17	99
13	20401	5	<0.2	2.48	<5	70	<5	0.62	<1	20	89	269	9.87	40	1.89	507	<1	0.10	25	1660	12	<5	<20	3	0.15	<10	217	<10	18	127
14	20402	5	<0.2	2.08	<5	45	<5	0.89	<1	20	90	175	7.41	30	1.42	426	424	0.10	20	1590	14	<5	<20	5	0.05	<10	132	<10	18	100
15	20403	>1000	7.3	2.16	<5	70	<5	0.90	<1	23	68	331	8.50	30	1.50	580	10	0.06	25	1310	10	<5	<20	5	0.05	<10	176	<10	14	113
16	20404	5	0.3	2.25	<5	70	<5	0.76	<1	23	117	374	>10	40	1.43	379	1	0.09	31	1610	8	<5	<20	24	0.04	<10	262	<10	18	103
17	20405	10	<0.2	2.87	<5	60	<5	0.92	<1	26	106	570	9.64	40	1.72	322	<1	0.17	35	600	14	<5	<20	26	0.05	<10	244	<10	11	101
18	20406	10	<0.2	2.71	<5	80	<5	1.64	<1	27	104	264	5.85	30	1.76	301	<1	0.24	35	2910	20	<5	<20	23	0.05	<10	187	<10	14	66
19	20407	55	0.2	2.37	<5	185	<5	0.86	<1	24	74	133	5.14	20	2.19	543	<1	0.13	17	340	18	<5	<20	20	0.04	<10	179	<10	7	71
20	20408	10	<0.2	3.50	<5	150	<5	2.55	<1	19	66	148	4.60	20	1.13	355	<1	0.37	14	840	30	<5	<20	101	0.04	<10	89	<10	8	51
21	20409	>1000	29.5	2.73	1995	95	<5	3.31	<1	26	90	588	>10	50	1.86	833	9	0.09	23	3850	26	<5	<20	36	0.02	<10	175	<10	13	92
22	20410	40	0.3	3.61	<5	140	<5	3.31	<1	29	70	232	7.12	30	1.34	500	<1	0.30	23	2970	24	<5	<20	117	0.05	<10	182	<10	11	66
23	20411	25	<0.2	4.71	<5	190	<5	3.41	<1	29	77	153	5.52	20	1.68	498	<1	0.40	28	1090	38	<5	<20	154	0.03	<10	193	<10	6	70
24	20412	20	0.2	4.69	<5	125	<5	4.05	<1	23	52	308	4.87	20	1.01	380	32	0.39	17	1520	36	<5	<20	157	0.04	<10	89	<10	8	54
25	20413	25	<0.2	3.00	<5	150	<5	2.69	<1	16	51	150	3.89	20	0.87	378	21	0.25	11	870	22	<5	<20	83	0.04	<10	64	<10	7	46

CERTIFICATE OF ASSAY AK 2003-184

NORTHERN CONTINENTAL RESOURCES
305 - 455 Granville Street
Vancouver, BC
V6C 1T7

20-Jun-03

ATTENTION: Godfrey Walton / Jean Pautler

No. of samples received: 34
Sample type: Core

ET #.	Tag #	Au (g/t)	Au (oz/t)
10	20363	3.62	0.106
19	20372	4.52	0.132
25	20378	2.04	0.059
28	20381	2.30	0.067
29	20382	2.98	0.087
30	20383	1.80	0.052
33	20386	8.60	0.251

QC/DATA

Standard:		
PM168	2.10	0.061

JJ/kk
XLS/03

ECO TECH LABORATORY LTD.
Jutta Jealouse
B.C. Certified Assayer

ABO 03-3

NORTHERN CONTINENTAL RESOURCES **ICP CERTIFICATE OF ANALYSIS AK 2003-340** **ECO TECH LABORATORY LTD.**

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
26	20414	>1000	15.4	3.38	30	180	<5	2.99	<1	17	87	143	4.16	20	0.97	432	2	0.28	13	770	26	<5	<20	95	0.05	<10	72	<10	9	52
27	20415	195	1.3	2.69	85	195	<5	2.69	<1	16	97	125	4.66	20	0.97	450	25	0.18	15	1020	22	<5	<20	66	0.04	<10	94	<10	9	79
28	20416	20	0.2	4.99	<5	180	<5	4.27	<1	20	82	181	4.66	20	0.86	322	1	0.43	16	970	48	<5	<20	164	0.07	<10	83	<10	7	48
29	20417	20	0.2	4.51	35	130	<5	4.33	<1	17	44	90	4.70	20	0.92	475	<1	0.36	17	1020	46	<5	<20	151	0.05	<10	96	<10	6	61
30	20418	105	0.8	2.07	1740	95	<5	2.80	<1	12	73	120	3.31	10	0.72	472	17	0.13	11	580	38	<5	<20	52	0.02	<10	49	<10	5	38
31	20419	680	1.8	4.33	125	130	<5	4.35	<1	19	51	146	4.65	20	1.08	547	11	0.32	17	940	48	<5	<20	133	0.07	<10	84	<10	7	60
32	20420	20	0.2	4.98	10	150	<5	4.83	<1	20	56	130	5.17	20	0.97	456	1	0.39	18	1180	50	<5	<20	170	0.08	<10	84	<10	7	62
33	20421	15	<0.2	4.30	<5	170	<5	3.58	<1	18	53	102	4.04	10	0.76	315	1	0.35	14	780	46	<5	<20	143	0.11	<10	63	<10	7	47
34	20422	10	<0.2	2.71	<5	120	<5	2.92	<1	11	83	85	2.44	<10	0.49	297	6	0.23	11	470	28	<5	<20	103	0.06	<10	37	<10	5	31
35	20423	25	0.2	3.11	<5	135	<5	3.21	<1	15	83	118	3.37	10	0.82	403	178	0.24	12	730	32	<5	<20	91	0.08	<10	51	<10	7	53
36	20424	5	<0.2	4.65	<5	175	<5	4.14	<1	19	57	120	4.55	20	1.08	423	1	0.37	16	960	50	<5	<20	149	0.12	<10	75	<10	8	59
37	20425	20	<0.2	2.25	10	180	<5	0.70	<1	25	85	166	6.56	20	2.07	609	4	0.05	20	310	14	<5	<20	<1	0.17	<10	111	<10	10	88
38	20426	40	<0.2	2.60	<5	145	<5	3.11	<1	18	59	147	4.76	20	1.22	570	4	0.18	16	850	24	<5	<20	43	0.09	<10	82	<10	10	61
39	20427	35	<0.2	2.70	10	170	<5	3.49	<1	18	64	104	4.61	20	1.17	839	16	0.15	14	790	24	<5	<20	54	0.07	<10	76	<10	8	59
QC DATA:																														
Resplit:																														
1	20389	<5	<0.2	4.30	<5	180	<5	3.71	<1	20	60	108	4.64	20	0.89	327	8	0.39	16	1050	24	<5	<20	183	0.12	<10	112	<10	7	50
36	20424	10	<0.2	4.63	<5	170	<5	4.17	<1	20	53	126	4.52	20	1.02	414	<1	0.37	16	960	54	<5	<20	148	0.12	<10	76	<10	8	59
Repeat:																														
1	20389	<5	<0.2	4.70	<5	170	<5	3.37	<1	18	55	128	4.34	20	0.97	309	6	0.47	15	970	34	<5	<20	181	0.08	<10	123	<10	6	49
10	20398	<5	<0.2	2.40	<5	65	<5	1.12	<1	23	103	297	8.35	30	1.38	499	8	0.16	22	940	12	<5	<20	31	0.07	<10	190	<10	15	82
19	20407	60	0.2	2.31	<5	185	<5	0.91	<1	25	77	128	5.35	20	2.12	566	<1	0.12	18	350	12	<5	<20	19	0.06	<10	163	<10	7	77
36	20424	-	<0.2	4.55	5	180	<5	4.06	<1	19	58	118	4.52	20	1.03	415	2	0.36	17	940	50	<5	<20	141	0.11	<10	78	<10	7	58
Standard:																														
GEO'03		135	1.6	1.53	80	155	<5	1.69	<1	23	59	75	4.15	<10	0.90	662	<1	0.02	32	750	22	<5	<20	49	0.11	<10	66	<10	12	80
GEO'03		130	1.6	1.52	60	150	<5	1.64	<1	22	58	75	4.05	<10	0.89	663	<1	0.02	30	760	20	<5	<20	48	0.11	<10	61	<10	12	76

ECO TECH LABORATORY LTD.
Jutta Jealouse
B.C. Certified Assayer

JJ/kk
d/340
XLS/03

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ECO TECH LABORATORY LTD.
10041 Dallas Drive
KAMLOOPS, B.C.
V2C 6T4

Phone: 250-573-5700
Fax : 250-573-4557

ICP CERTIFICATE OF ANALYSIS AK 2003-534

NORTHERN CONTINENTAL RESOURCES
305 - 455 Granville Street
Vancouver, BC
V6C 1T7

ATTENTION: Jean Pautler

No. of samples received: 7
Sample type: Rock
Samples submitted by: Jean Pautler

A80 03-4

Values in ppm unless otherwise reported

Et #.	Tag #	Au (ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	20428	<5	0.2	2.68	<5	60	<5	0.31	<1	31	108	420	7.51	20	1.97	581	322	0.04	31	1340	12	<5	<20	11	0.29	<10	195	<10	22	85
2	20429	5	0.3	1.44	<5	55	<5	0.39	<1	18	72	410	4.62	10	0.79	264	246	0.07	10	930	4	<5	<20	14	0.20	<10	97	<10	14	59
3	20430	50	1.4	2.12	120	110	<5	0.40	<1	14	73	99	3.87	10	1.19	643	8	0.06	22	870	10	<5	<20	20	0.08	<10	94	<10	10	137
4	20431	650	2.5	1.66	2630	50	<5	1.87	<1	17	85	349	7.55	20	1.16	798	126	0.01	23	1020	10	5	<20	30	0.10	<10	55	<10	7	88
5	20432	<5	<0.2	2.04	<5	60	<5	0.62	<1	21	84	325	8.60	20	1.22	577	24	0.04	21	2600	<2	<5	<20	<1	0.23	<10	170	<10	17	58
6	20433	<5	<0.2	2.22	<5	75	<5	0.44	<1	20	91	262	9.81	20	1.52	681	18	0.05	22	1660	<2	<5	<20	<1	0.20	<10	184	<10	12	60
7	20434	<5	<0.2	3.22	<5	130	<5	1.77	<1	18	87	83	9.15	20	1.93	888	2	0.07	26	5070	8	<5	<20	15	0.19	<10	185	<10	18	86
QC DATA:																														
Resplit:																														
1	20428	<5	0.2	2.66	<5	65	<5	0.24	<1	29	110	410	7.44	20	1.98	566	339	0.04	33	1240	6	<5	<20	9	0.28	<10	197	<10	22	82
Repeat:																														
1	20428	<5	0.2	2.74	<5	60	<5	0.28	<1	30	111	432	7.71	20	2.01	569	334	0.04	33	1340	8	<5	<20	9	0.29	<10	201	<10	22	83
Standard:																														
GEO '03		140	1.4	1.54	50	135	<5	1.52	<1	18	57	85	3.43	<10	0.90	595	1	0.02	28	830	20	<5	<20	37	0.12	<10	68	<10	9	71

ECO TECH LABORATORY LTD.
Jutta Jealouse
B.C. Certified Assayer

JJ/kk
dl/527
XLS/03

22-Apr-03

ECO TECH LABORATORY LTD.
10041 Dallas Drive
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V2C 6T4

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ICP CERTIFICATE OF ANALYSIS AK 2003-093

NORTHERN CONTINENTAL
305 - 455 Granville Street
Vancouver, BC
V6C 1T7
Submitted by: Jean Pautler

Values in ppm unless otherwise reported

Breccia Zone TR03-5

TR03-3

Et #	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y
1	121764	25	<0.2	0.99	<5	55	<5	0.14	<1	7	76	78	3.12	<10	0.81	239	20	0.02	9	660	<2	<5	<20	3	<0.01	<10	52	<10	4
2	121769	15	<0.2	1.83	5	70	<5	0.83	<1	19	106	83	2.68	<10	0.71	273	<1	0.09	26	270	2	<5	<20	46	0.02	<10	47	<10	3
3	121770	10	<0.2	2.06	<5	45	<5	0.73	<1	21	84	125	4.07	<10	1.19	430	2	0.16	31	510	2	<5	<20	44	0.03	<10	71	<10	6
4	121771	5	<0.2	0.74	<5	35	<5	0.23	2	16	70	122	3.21	<10	0.48	193	3	0.04	16	240	<2	<5	<20	29	0.01	<10	26	<10	2
5	121772	340	3.8	0.88	<5	<5	<5	0.3	<1	44	105	2847	>10	40	1.32	101	<1	<0.01	21	230	<2	<5	<20	<1	0.06	10	117	<10	11
6	121773	70	0.6	1.26	<5	<5	<5	1.48	<1	19	68	747	>10	20	1.25	305	<1	0.01	17	390	<2	<5	<20	<1	0.02	<10	128	<10	6
7	121774	10	<0.2	3.21	<5	30	<5	1.15	<1	25	85	147	3.96	<10	1.4	459	<1	0.29	25	700	6	<5	<20	108	0.06	<10	114	<10	6
8	121775	<5	<0.2	0.66	<5	105	<5	0.26	1	9	91	63	1.66	<10	0.33	201	4	0.07	11	290	2	<5	<20	21	0.01	<10	17	<10	3
9	121776	<5	<0.2	1.17	10	115	<5	0.37	1	11	66	57	2.77	<10	0.63	367	3	0.09	15	410	4	<5	<20	43	0.06	<10	42	<10	4
QC DATA:																													
Repeat:																													
1	121764	20	<0.2	0.97	<5	50	<5	0.14	<1	7	74	75	3.04	<10	0.79	231	19	0.02	9	660	<2	<5	<20	1	<0.01	<10	51	<10	4
Resplit:																													
1	121764	20	<0.2	1.02	<5	55	<5	0.15	<1	7	79	83	3.13	<10	0.83	244	19	0.03	9	690	<2	<5	<20	3	<0.01	<10	54	<10	4
Standard:																													
GEO '03		130	1.6	1.52	50	145	<5	1.52	<1	19	58	83	3.34	10	0.92	600	<1	0.02	29	640	18	<5	<20	37	0.06	<10	64	<10	10

10-Apr-03

ICP CERTIFICATE OF ANALYSIS AK 2003-081

NORTHERN CONTINENTAL

Values in ppm unless otherwise reported

Et #	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y
1	121758	15	<0.2	1.17	5	95	5	0.09	<1	19	67	126	2.86	<10	0.71	248	11	0.06	16	280	4	<5	<20	9	0.3	<10	49	<10	5
2	121759	10	0.2	0.59	<5	40	<5	0.37	<1	13	116	233	2.77	<10	0.12	86	4	0.06	18	230	<2	<5	<20	26	0.06	<10	20	<10	2
3	121761	<5	<0.2	1.9	<5	120	<5	0.23	2	11	92	53	4.64	10	1.38	833	<1	0.08	10	200	4	<5	<20	5	0.16	<10	98	<10	3
4	121762	>1000	>30	0.15	5	25	<5	<0.01	<1	4	67	165	4.47	<10	0.07	<1	39	0.02	3	80	<2	<5	<20	<1	0.05	<10	12	<10	1
5	121765	25	0.2	1.38	5	140	<5	0.58	6	10	103	38	2.51	<10	0.68	415	3	0.15	20	360	6	<5	<20	74	0.14	<10	41	<10	3
6	121766	10	0.4	1.53	5	55	<5	0.75	2	15	85	90	3.13	<10	0.62	288	6	0.19	22	390	8	<5	<20	48	0.13	<10	86	<10	3
7	121767	15	0.2	1.5	<5	75	<5	0.81	<1	12	82	73	2.87	<10	0.57	275	2	0.21	17	410	6	<5	<20	48	0.12	<10	63	<10	3
8	121768	10	0.2	2.38	<5	55	10	0.79	<1	17	90	99	3.16	10	1.19	374	8	0.23	27	520	10	<5	<20	43	0.28	<10	64	<10	7
QC DATA:																													
Resplit:																													
1	121758		<0.2	1.19	<5	95	5	0.1	<1	18	83	121	2.87	<10	0.71	248	9	0.06	17	300	4	<5	<20	8	0.23	<10	47	<10	5
Standard:																													
GEO '03			1.6	1.85	55	140	10	1.67	<1	21	67	89	3.72	20	0.96	638	4	0.05	33	640	20	<5	<20	41	0.34	<10	83	<10	9

JJ/ejd
df/79
XLS/03

ECO TECH LABORATORY LTD.
Jutta Jealouse
B.C. Certified Assayer

CERTIFICATE OF ASSAY AK 2003-081

NORTHERN CONTINENTAL DEVELOPMENT
305 - 455 Granville Street
Vancouver, BC
V6C 1T7

11-Apr-03

ATTENTION: Godfrey Walton

No. of samples received: 8
Sample type: Rock
Project #: NCR

qtz vein 150m NE of AB0 03-1 set up - in face

ET #.	Tag #	Au (g/t)	Au (oz/t)	Ag (g/t)	Ag (oz/t)
4	121762	36.00	1.050	51.8	1.51

JJ/ejd
XLS/03

ECO TECH LABORATORY LTD.
Jutta Jealouse
B.C. Certified Assayer

2-May-03

ECO TECH LABORATORY LTD.
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ICP CERTIFICATE OF ANALYSIS AK 2003-113

NORTHERN CONTINENTAL RESOURCES
305 - 455 Granville Street
Vancouver, BC
V6C 1T7

ATTENTION: Jean Pautler

No. of samples received: 34
Sample type: Rock
Project: NCR

Values in ppm unless otherwise reported

TRENCHES

	Et #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn	
R03-4	1	22301	3.9	0.61	<5	<5	<5	0.59	<1	40	105	2317	>10	50	0.97	65	<1	0.01	20	200	<2	<5	<20	4	<0.01	10	83	<10	10	30	
	2	22302	<0.2	2.59	<5	40	5	0.64	<1	18	94	142	4.14	10	1.55	484	3	0.13	40	1100	4	<5	<20	29	0.13	20	140	<10	11	65	
R03-5	3	22303	<0.2	3.60	10	45	5	1.68	<1	20	83	97	4.23	<10	1.06	487	4	0.26	26	550	4	<5	<20	142	0.07	10	71	<10	6	88	
	4	22304	<0.2	2.11	5	75	5	0.65	<1	17	57	70	3.55	<10	0.89	326	4	0.12	18	550	<2	5	<20	44	0.09	20	33	<10	7	80	
	5	22305	<0.2	3.83	5	50	10	1.85	<1	18	78	81	3.94	<10	1.06	367	4	0.26	25	530	4	<5	<20	119	0.09	10	76	<10	7	78	
	6	22306	<0.2	3.85	10	110	10	1.20	<1	19	66	77	4.58	10	1.64	578	4	0.20	24	1090	4	<5	<20	78	0.16	20	68	<10	10	76	
	7	22307	<0.2	3.80	10	40	<5	1.44	<1	20	101	141	4.69	<10	1.65	556	3	0.24	33	700	<2	<5	<20	103	0.10	10	142	<10	8	64	
	8	22308	<0.2	7.40	10	60	15	3.04	2	30	89	185	5.91	10	2.37	809	<1	0.52	35	860	2	<5	<20	59	0.17	<10	218	<10	12	214	
	9	22309	<0.3	1.78	<5	105	<5	0.48	<1	12	73	125	2.72	<10	1.08	396	4	0.10	17	400	2	<5	<20	52	0.04	20	50	<10	4	40	
	10	22310	0.2	2.45	145	25	<5	0.78	<1	19	57	66	4.97	<10	0.79	173	3	0.21	25	670	<2	5	<20	30	0.03	20	89	<10	4	46	
	11	22311	0.2	1.20	10	15	<5	0.09	<1	49	114	989	4.86	<10	0.75	190	15	0.03	23	470	<2	<5	<20	13	0.04	20	106	<10	4	27	
	12	22312	<0.2	3.12	<5	50	5	1.38	<1	17	62	133	3.46	<10	0.96	320	5	0.22	25	690	6	<5	<20	316	0.06	20	76	<10	7	46	
	13	22313	<0.2	3.51	<5	50	5	1.84	<1	16	56	89	3.35	<10	0.74	268	3	0.20	21	580	6	<5	<20	122	0.08	10	35	<10	6	68	
	14	22314	<0.2	5.06	5	45	<5	3.01	<1	17	81	124	3.19	<10	1.02	405	2	0.38	30	1010	8	<5	<20	91	0.08	<10	90	<10	7	36	
	15	22315	<0.2	3.81	10	50	<5	1.89	<1	14	75	174	3.45	<10	1.19	379	2	0.27	25	1010	4	<5	<20	115	0.09	10	78	<10	9	37	
	16	22316	<0.2	2.89	5	55	<5	1.48	<1	11	56	82	2.46	<10	0.70	277	2	0.17	17	530	8	<5	<20	140	0.05	10	47	<10	4	42	
	17	22317	<0.2	2.39	<5	65	<5	1.39	<1	12	66	82	2.44	<10	0.70	327	3	0.14	17	550	4	<5	<20	158	0.04	20	42	<10	4	55	
	18	22318	<0.2	2.70	<5	55	<5	1.35	<1	13	71	78	2.68	<10	0.89	342	1	0.16	21	450	4	<5	<20	54	0.04	20	41	<10	4	57	
	19	22319	<0.2	5.21	5	40	10	2.67	<1	21	91	85	4.40	<10	1.52	479	2	0.32	31	910	6	<5	<20	149	0.13	<10	108	<10	9	68	
R03-6	20	22320	<0.2	2.46	<5	185	5	1.04	<1	11	62	43	2.62	<10	0.97	592	1	0.19	14	660	4	<5	<20	133	0.07	20	55	<10	7	75	
	21	22321	<0.2	2.13	<5	125	5	0.76	<1	12	59	44	2.87	<10	0.83	536	2	0.15	13	780	6	<5	<20	98	0.09	20	37	<10	8	101	
R05-12	22	22322	1.0	0.19	215	75	<5	0.01	<1	2	86	29	0.95	<10	0.08	32	200	<0.01	3	70	<2	<5	20	<1	<0.01	20	7	<10	<1	6	0.4m
	23	22323	>30	0.25	765	75	<5	0.01	<1	7	55	195	4.73	<10	0.10	<1	90	0.01	2	220	<2	5	<20	<1	<0.01	20	12	<10	4	9	0.2m
	24	22324	2.8	2.27	80	50	<5	0.29	<1	25	60	256	5.55	<10	1.49	375	53	0.05	19	1200	<2	<5	<20	9	0.09	20	164	<10	12	80	HOST
R03-5	25	121777	<0.2	2.12	5	45	<5	0.70	1	18	49	114	3.77	<10	0.77	241	5	0.16	22	540	4	<5	<20	35	0.08	20	44	<10	7	153	

NORTHERN CONTINENTAL RESOURCES — ICP CERTIFICATE OF ANALYSIS AK 2003-113 — ECO TECH LABORATORY

TRENCHES

	Et #.	Tag #	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
TR03-5	26	121778	<0.2	3.18	5	55	<5	1.34	<1	19	59	126	4.24	<10	1.15	415	3	0.24	23	690	6	<5	<20	75	0.08	20	80	<10	7	71
	27	121779	0.2	2.44	5	35	<5	0.94	<1	16	69	163	4.12	<10	0.93	313	19	0.21	23	600	4	<5	<20	85	0.06	20	82	<10	6	55
	28	121780	<0.2	2.91	5	70	<5	1.69	<1	13	67	62	3.40	<10	0.59	410	2	0.21	22	360	6	<5	<20	266	0.04	10	44	<10	4	48
TR03-3 massive sulfide	29	AB-11	3.2	0.37	<5	<5	<5	0.06	<1	42	122	3179	>10	30	0.60	<1	<1	0.01	17	160	<2	<5	<20	2	<0.01	40	60	<10	12	56
	30	AB-12	3.8	0.64	<5	<5	<5	0.04	<1	35	83	2214	>10	20	1.02	<1	<1	0.02	16	130	<2	<5	<20	<1	<0.01	20	123	<10	9	34
	31	AB-13	2.8	0.45	<5	<5	<5	0.07	<1	41	124	2528	>10	30	0.89	<1	<1	0.01	19	120	<2	<5	<20	<1	<0.01	10	101	<10	12	52
	32	AB-14	2.8	2.18	<5	<5	<5	0.09	<1	25	103	2163	>10	20	2.35	558	<1	0.02	17	160	<2	<5	<20	<1	0.02	30	341	<10	8	127
	33	AB-15	3.6	0.39	<5	<5	<5	0.11	<1	45	126	3226	>10	30	0.90	<1	<1	<0.01	19	160	<2	<5	<20	<1	<0.01	10	86	<10	11	146
	34	AB-18	4.6	2.06	<5	<5	<5	2.43	9	23	107	3376	>10	20	2.28	1281	<1	0.01	19	180	<2	<5	<20	<1	<0.01	30	347	<10	11	772
	QC DATA:																													
	Resplit:																													
	1	22301	3.6	0.6	<5	<5	<5	0.58	<1	41	112	2262	>10	30	0.96	47	<1	0.02	20	200	<2	<5	<20	1	<0.01	20	82	<10	11	31
	Repeat:																													
	1	22301	3.8	0.61	<5	<5	<5	0.6	<1	40	105	2271	>10	40	0.95	72	<1	0.01	18	230	<2	<5	<20	<1	<0.01	10	82	<10	11	30
	10	22310	0.2	2.39	180	25	<5	0.75	<1	20	55	60	4.83	<10	0.77	158	3	0.20	24	640	<2	<5	<20	28	0.03	20	88	<10	4	46
	19	22319	<0.2	5.15	<5	35	5	2.66	<1	20	89	85	4.34	<10	1.5	486	2	0.32	31	890	8	<5	<20	144	0.13	10	112	<10	8	68
	28	121780	<0.2	2.97	10	65	<5	1.73	<1	14	70	69	3.51	<10	0.6	429	2	0.21	23	350	6	<5	<20	272	0.04	10	44	<10	4	51
	Standard:																													
	GEO '03		1.5	1.63	55	150	5	1.52	<1	19	60	90	3.45	10	0.94	598	<1	0.03	29	650	16	<5	<20	43	0.10	20	46	<10	10	69

JJ/ejd
df/113
XLS/03

ECO TECH LABORATORY LTD.
Jutta Jealouse
B.C. Certified Assayer

CERTIFICATE OF ANALYSIS AK 2003-113

NORTHERN CONTINENTAL RESOURCES
305 - 455 Granville Street
Vancouver, BC
V6C 1T7

No. of samples received: 34
Sample Type: Rock
Project #: NCR
Shipment #: None given
Samples submitted by:J. Pautler

2-May-03

ET #.	Tag #		Au (g/t)	Au (oz/t)	Ag (g/t)	Ag (oz/t)
1	22301		0.38	0.011		
2	22302		0.01	<0.001		
3	22303		0.01	<0.001		
4	22304	*	0.27	0.008		
5	22305		0.01	<0.001		
6	22306		0.01	<0.001		
7	22307		0.01	<0.001		
8	22308		<0.01	<0.001		
9	22309		0.01	<0.001		
10	22310		0.01	<0.001		
11	22311		0.01	<0.001		
12	22312		0.14	0.004		
13	22313		0.01	<0.001		
14	22314		<0.01	<0.001		
15	22315		<0.01	<0.001		
16	22316		0.01	<0.001		
17	22317		0.01	<0.001		
18	22318		0.01	<0.001		
19	22319		0.01	<0.001		
20	22320		0.01	<0.001		
21	22321		0.01	<0.001		
22	22322		0.01	<0.001		
23	22323		24.7	0.720	62.3	1.82
24	22324		0.16	0.005		
25	121777		0.05	0.001		

ECO TECH LABORATORY LTD.
Jutta Jealouse
B.C. Certified Assayer

CERTIFICATE OF ANALYSIS AK 2003-113

NORTHERN CONTINENTAL RESOURCES
305 - 455 Granville Street
Vancouver, BC
V6C 1T7

16-May-03

ATTENTION: Godfrey Walton

No. of samples received: 34
Sample Type: Rock
Project #: NCR
Shipment #: None given
Samples submitted by:J. Pautler

		Metallic Assay	
ET #.	**Tag #**	**Au (g/t)**	**Au (oz/t)**
22	22322	0.10	0.003
24	22324	0.14	0.004

		Metallic Assay	
ET #.	**Tag #**	**Au (g/t)**	**Au (oz/t)**
31	20311	0.02	0.001

ECO TECH LABORATORY LTD.
Jutta Jealouse
B.C. Certified Assayer

16-May-03

ECO TECH LABORATORY LTD.
10041 Dallas Drive
KAMLOOPS, B.C.
V2C 6T4

Phone: 250-573-5700
Fax : 250-573-4557

ICP CERTIFICATE OF ANALYSIS AK 2003-134

NORTHERN CONTINENTAL RESOURCES
305 - 455 Granville Street
Vancouver, BC
V6C 1T7

ATTENTION: Jean Pautler

No. of samples received: 4
Sample type: Rock
Project: NCR

Values in ppm unless otherwise reported

Pads #2, 4, 6

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Tl %	U	V	W	Y	Zn
1	22347 Pad 6	120	0.7	0.95	90	50	<5	0.03	<1	7	105	125	5.95	<10	0.45	64	70	0.02	6	550	4	<5	<20	13	0.01	<10	18	<10	4	39
2	22348 Pad 4	10	0.2	0.79	<5	<5	<5	0.09	<1	53	88	349	4.7	<10	0.38	64	6	0.05	32	140	<2	<5	<20	10	0.03	<10	17	<10	4	19
→ 3	22349 Pad 2	>1000	13.2	0.99	20	55	<5	0.02	<1	8	121	123	8.21	<10	0.6	82	55	<0.01	9	410	<2	<5	<20	2	0.02	<10	54	<10	7	55
4	22350 Pad 4	20	0.4	1.58	<5	45	<5	0.3	<1	19	75	146	4.46	<10	1.06	386	21	0.06	9	980	4	5	<20	16	0.08	<10	92	<10	11	52
QC DATA:																														
Resplit:																														
1	22347	115	0.7	0.96	95	50	<5	0.03	<1	7	117	127	6.24	<10	0.45	33	73	0.03	7	570	4	<5	<20	11	0.01	<10	18	<10	5	40
Standard:																														
GEO'03			1.6	1.63	60	135	<5	1.6	<1	21	62	82	3.47	10	0.96	624	3	0.02	30	750	22	5	<20	41	0.12	<10	56	<10	11	76

NOTE: #3 Au Assay to Follow

ECO TECH LABORATORY LTD.
Jutta Jealouse
B.C. Certified Assayer

JJ/kk
d//135
XLS/03

CERTIFICATE OF ASSAY AK 2003-134

NORTHERN CONTINENTAL RESOURCES
305 - 455 Granville Street
Vancouver, BC
V6C 1T7

16-May-03

ATTENTION: Jean Pautler

No. of samples received: 4
Sample type: Rock
Project #: NCR

ET #.	Tag #	Au (g/t)	Au (oz/t)
3	22349	23.1	0.674

JJ/kk
XLS/03

ECO TECH LABORATORY LTD.
Jutta Jealouse
B.C. Certified Assayer

3-Apr-03

ECO TECH LABORATORY LTD.
10041 Dallas Drive
KAMLOOPS, B.C.
V2C 6T4

Phone: 250-573-5700
Fax : 250-573-4557

ICP CERTIFICATE OF ANALYSIS AK 2003-067

NORTHERN CONTINENTAL RES.
305 - 455 Granville Street
Vancouver, BC
V6C 1T7

ATTENTION: Godfrey Walton

No. of samples received: 19
Sample type: Rock

Values in ppm unless otherwise reported

TRENCHES 03-1, -2

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	172328	<5	0.4	2.15	10	170	<5	0.63	<1	20	94	117	5.24	10	0.91	325	18	0.12	17	370	8	<5	<20	47	0.14	<10	132	<10	5	48
2	172329	5	<0.2	2.37	<5	240	10	0.98	<1	18	87	194	8.3	20	1.19	255	3	0.09	33	2250	8	<5	20	56	0.21	<10	208	10	18	85
3	172330	5	<0.2	2.35	<5	395	15	0.54	<1	17	83	87	7.58	20	1.11	174	4	0.07	27	670	8	<5	<20	41	0.2	<10	174	<10	10	59
4	172331	<5	<0.2	1.63	<5	120	<5	1.68	<1	13	94	86	6.72	20	0.73	81	4	0.06	27	5550	6	<5	<20	58	0.15	<10	168	<10	18	56
5	172332	500	0.2	1.23	10	55	<5	0.24	<1	12	80	148	3.63	<10	0.62	564	4	0.04	9	580	4	<5	<20	17	0.05	<10	54	<10	3	32
6	172333	35	<0.2	1.68	<5	35	<5	0.27	<1	21	92	190	4.89	<10	1.37	680	4	0.03	14	620	6	<5	<20	9	0.07	<10	85	<10	4	47
7	172334	285	0.8	1.02	25	20	<5	0.05	<1	33	123	458	5.25	<10	0.81	256	7	0.01	19	210	2	<5	<20	<1	0.07	<10	50	<10	3	47
8	172335	85	0.2	1.37	<5	45	<5	0.13	<1	15	102	150	4.24	<10	1.07	688	2	0.02	12	440	8	<5	<20	7	0.08	<10	68	<10	3	38
9	172336	25	<0.2	1.57	<5	50	<5	0.45	<1	11	128	133	3.45	<10	0.89	396	9	0.07	14	422	8	<5	<20	38	0.02	<10	66	<10	2	28
10	172337 AB-1	5	<0.2	2.05	<5	410	5	0.18	<1	26	54	68	5.43	10	1.31	560	6	0.04	14	620	10	<10	<20	3	0.27	<10	158	<10	23	78
11	172338 AB-2	<5	<0.2	0.47	<5	60	<5	0.35	<1	20	48	104	2.08	<10	0.24	194	11	0.07	7	790	<2	<10	<20	16	0.02	<10	42	<10	8	16
12	172339 AB-3	5	<0.2	1.4	<5	45	<5	0.47	<1	14	60	119	5.97	10	0.92	280	1644	0.05	6	910	8	<5	<20	14	0.16	<10	47	<10	10	42
13	172340 AB-4	5	<0.2	1.09	<5	50	<5	0.29	<1	17	68	205	3.03	<10	0.61	285	49	0.05	7	1000	6	<5	<20	9	0.09	<10	51	<10	14	49
14	172341 AB-5	15	0.4	1.53	<5	50	<5	0.15	<1	13	109	82	3.93	<10	1.22	623	9	0.01	17	630	10	<5	<20	<1	0.08	<10	78	<10	8	49
15	172342 AB-6	>1000	20.2	1.11	<5	35	<5	0.18	<1	19	121	533	3.96	<10	0.6	197	12	0.05	11	450	8	<5	<20	19	0.08	<10	37	<10	3	37
16	172343 AB-7	120	0.4	1.84	<5	30	<5	0.15	<1	21	93	247	4.73	<10	1.48	540	2	0.01	16	500	8	<5	<20	3	0.07	<10	98	<10	3	50
17	172344 AB-8	385	0.2	1.1	<5	45	<5	0.12	<1	14	146	217	3.96	<10	0.82	351	3	0.01	14	450	4	<5	<20	<1	0.06	<10	56	<10	4	35
18	172345 AB-9	>1000	>30	0.08	6510	30	<5	<0.01	<1	23	103	138	3.82	<10	0.07	<1	80	<0.01	4	80	<2	<5	<20	<1	0.05	<10	4	<10	2	13
19	172346 AB-10	>1000	>30	0.16	6530	80	<5	0.02	<1	8	63	34	1.68	<10	0.06	23	178	<0.01	4	80	4	<5	<20	<1	0.03	<10	8	<10	3	10
QC DATA:																														
Resplit:																														
1	172328	<5	0.2	2.15	10	175	<5	0.62	<1	24	94	115	5.29	10	0.93	334	17	0.12	16	440	8	<5	20	43	0.14	<10	132	<10	8	49
Repeat:																														
1	172328	<5	0.4	2.18	15	175	<5	0.62	<1	21	96	118	5.28	10	0.93	332	17	0.12	18	380	8	<5	<20	47	0.14	<10	133	<10	4	48
10	172337 AB-1	10	<0.2	2.02	<5	410	15	0.15	<1	26	53	87	5.37	10	1.28	557	8	0.04	14	610	8	<5	<20	3	0.31	<10	151	<10	23	75
Standard:																														
GEO '03		180	1.4	1.51	60	135	<5	1.52	<1	19	80	83	3.35	10	0.82	596	<1	0.02	29	650	20	<5	<20	35	0.12	<10	68	<10	9	86

JJ/ejd
d067
XLS/03

ECO TECH LABORATORY LTD.
Jutta Jealouse
B.C. Certified Assayer

CERTIFICATE OF ASSAY AK 2003-067

NORTHERN CONTINENTAL DEVELOPMENT
305 - 455 Granville Street
Vancouver, BC
V6C 1T7

02-Apr-03

ATTENTION: Godfrey Walton

No. of samples received: 19
Sample type: Rock

R03-1 initial.

ET #.	Tag #	Au (g/t)	Au (oz/t)	Ag (g/t)	Ag (oz/t)
15	172342 AB-6	2.36	0.069		
18	172345 AB-9	31.8	0.927	70.0	2.04
19	172346 AB-10	63.8	1.861	184.0	5.37

QC DATA:

Repeat:

18	172345 AB-9	31.6	0.922
19	172346 AB-10	61.9	1.805

JJ/kk
XLS/03

ECO TECH LABORATORY LTD.
Jutta Jealouse
B.C. Certified Assayer

CERTIFICATE OF ASSAY AK 2003-067

NORTHERN CONTINENTAL RES.
305 - 455 Granville Street
Vancouver, BC
V6C 1T7

2-Apr-03

ET #.	Tag #	Au (g/t)	Au (oz/t)	Ag (g/t)	Ag (oz/t)
15	172342 AB-6	2.36	0.069		
18	172345 AB-9	31.8	0.927	70.0	2.04
19	172346 AB-10	63.8	1.861	184.0	5.37
QC DATA:					
Repeat:					
18	172345 AB-9	31.6	0.922		
19	172346 AB-10	61.9	1.805		

CERTIFICATE OF ASSAY AK 2003-081

ET #.	Tag #	(g/t)	(oz/t)	(g/t)	(oz/t)
4	121762	36.00	1.050	51.8	1.51

NORTHERN CONTINENTAL RESOURCES

AK 2003-0113

2-May-03

ET #.	Tag #	Au (g/t)	Au (oz/t)
26	121778	0.04	0.001
27	121779	0.03	0.001
28	121780	0.01	<0.001
29	AB-11	0.30	0.009
30	AB-12	0.66	0.019
31	AB-13	0.29	0.008
32	AB-14	0.22	0.006
33	AB-15	0.42	0.012
34	AB-16	0.44	0.013
QC DATA:			
Resplit:			
1	22301	0.38	0.011
Repeat:			
1	22301	0.36	0.010
10	22310	0.01	<0.001
19	22319	0.01	<0.001
23	22323	25.1	0.732
33	AB-15	0.46	0.013
34	AB-16	0.48	0.014
Standard:			
PM168		2.07	0.060

*Note: * = Metallic Au Present*

06-May-03

ECO TECH LABORATORY LTD.
10041 Dallas Drive
KAMLOOPS, B.C.
V2C 6T4

Phone: 250-573-5700
Fax : 250-573-4557

ICP CERTIFICATE OF ANALYSIS AK 2003-0116

NORTHERN CONTINENTAL RESOURCES
305 - 455 Granville Street
Vancouver, BC
V6C 1T7

ATTENTION: Godfrey Walton

No. of samples received: 2
Sample type:Reject

Values in ppm unless otherwise reported

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Tl %	U	V	W	Y	Zn
1	Reject #1 (Beg)	380	3.6	0.49	<5	<5	<5	0.15	<1	40	118	2010	>10	30	0.81	<1	<1	0.01	21	220	8	<5	<20	2	<0.01	<10	101	<10	11	58
2	Reject #2 (End)	340	3.5	0.53	<5	<5	<5	0.13	4	45	127	2570	>10	30	1.01	<1	5	0.02	48	190	8	<5	<20	2	<0.01	<10	100	<10	11	52
QC DATA:																														
Reapit:																														
1	Reject #1 (Beg)	360	3.8	0.48	<5	<5	<5	0.15	<1	43	130	2015	>10	30	0.84	<1	<1	0.01	24	260	8	5	<20	<1	<0.01	<10	102	<10	13	61
Standard:																														
GEO '03		120	1.5	1.73	60	145	5	1.73	1	22	69	86	3.96	<10	0.98	658	6	0.03	39	740	20	40	<20	45	0.12	<10	70	<10	12	72

JJ/ejd
df/113
XLS/03

ECO TECH LABORATORY LTD.
Jutta Jealouse
B.C. Certified Assayer

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

ASSAY CERTIFICATE

Northern Continental Res. Ltd. File # A301181R
305 - 455 Granville St., Vancouver BC V6C 1T1 Submitted by: Frank Callaghan

SAMPLE#	Au** gm/mt
1	.36
2	.30
STANDARD AU-1	3.39

GROUP 6 - PRECIOUS METALS BY FIRE ASSAY FROM 1 A.T. SAMPLE, ANALYSIS BY ICP-ES.
- SAMPLE TYPE: ROCK PULP

DATE RECEIVED: APR 25 2003 **DATE REPORT MAILED:** Apr 29/03 **SIGNED BY.** C. Leong .D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Data A FA VWS

17-Apr-03

ECO TECH LABORATORY LTD.
10041 Dallas Drive
KAMLOOPS, B.C.
V2C 6T4

Phone: 250-573-5700
Fax : 250-573-4557

ICP CERTIFICATE OF ANALYSIS AK 2003-82

NORTHERN CONTINENTAL RES.
305 - 455 Granville Street
Vancouver, BC
V6C 1T7

ATTENTION: Jean Pautler

No. of samples received: 5
Sample type: Soils
Project: None Given
Shipment: None Given

SOILS

Values in ppm unless otherwise reported

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	121754	5	0.6	2.19	5	180	<5	0.18	<1	13	109	148	>10	50	1.03	18	<1	0.05	11	5690	<2	<5	<20	24	0.16	<10	359	<10	7	128
2	121755	15	0.8	3.17	15	525	<5	0.27	<1	26	95	189	>10	40	0.93	305	<1	0.05	55	4810	4	<5	<20	26	0.16	<10	271	<10	12	238
3	121756	25	0.8	2.98	30	500	<5	0.15	<1	14	82	256	>10	40	0.85	29	<1	0.04	28	5180	4	<5	<20	25	0.12	<10	254	<10	8	163
4	121757	10	1.0	2.84	30	60	<5	0.1	<1	12	40	48	3.65	10	0.41	168	2	0.04	21	800	12	<5	<20	6	0.09	<10	68	<10	6	93
5	121760	20	0.2	2.56	35	180	<5	0.14	<1	25	48	154	8.23	20	0.53	474	<1	0.04	39	2000	10	<5	<20	7	0.12	<10	93	<10	7	215
QC DATA:																														
Repeat:																														
1	121754	10	0.6	2.18	10	205	<5	0.18	<1	14	109	139	>10	50	1.01	25	2	0.05	11	5610	<2	<5	<20	22	0.25	<10	354	<10	8	131
Standard:																														
GEO '03		120	1.4	1.69	60	140	<5	1.57	<1	20	65	94	3.72	20	0.97	609	<1	0.05	33	700	20	<5	<20	42	0.16	<10	60	<10	9	78

JJ/ejd
d/82A
XLS/03

ECO TECH LABORATORY LTD.
Jutta Jealouse
B.C. Certified Assayer

22-Apr-03

ECO TECH LABORATORY LTD.
10041 Dallas Drive
KAMLOOPS, B.C.
V2C 6T4

Phone: 250-573-5700
Fax : 250-573-4557

ICP CERTIFICATE OF ANALYSIS AK 2003-94

NORTHERN CONTINENTAL DEVELOPMENT
305 - 455 Granville Street
Vancouver, BC
V6C 1T7

ATTENTION: Godfrey Walton

No. of samples received: 1
Sample type: Soil
Project: NCR
Samples submitted by: J. Pautler

Values in ppm unless otherwise reported Prospecting Soil – Breccia Zone (North)

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Tl %	U	V	W	Y	Zn
1	121763	10	<0.2	1.73	15	55	10	0.31	<1	11	29	21	3.21	<10	0.32	91	5	0.02	16	340	8	<5	<20	15	0.13	<10	51	<10	7	47
QC DATA:																														
Repeat:																														
1	121763	10	0.2	1.75	15	55	5	0.33	<1	11	30	23	3.4	<10	0.34	95	5	0.02	17	360	6	<5	<20	15	0.11	<10	48	<10	7	50
Standard:																														
GEO '03		125	1.6	1.67	55	145	5	1.61	<1	19	62	89	3.55	10	0.99	621	<1	0.03	31	660	18	<5	<20	43	0.12	<10	63	<10	11	69

ECO TECH LABORATORY LTD.
Jutta Jealouse
B.C. Certified Assayer

JJ/ejd
df/94
XLS/03
cc: Jean Pautler

APPENDIX V
Summary Drill Logs

Drill Hole: ABO03-01

Samp.	From (feet)	To	Feet Rep.	Feet Act.	Au ppb	
3001	25.0	30.0	5.0	4.0	<5	
3002	40.0	45.0	5.0	4.3	55	
3003	45.0	50.0	5.0	4.6	30	
3004	55.0	60.0	5.0	4.5	<5	
3005	60.0	65.0	5.0	4.6	<5	
3006	70.0	75.0	5.0	4.5	<5	
3007	75.0	83.0	8.0	6.0	180	
3008	90.0	100.0	10.0	5.4	10	
3009	100.0	105.0	5.0	5.0	<5	
3010	105.0	110.0	5.0	5.0	5	
3011	110.0	115.0	5.0	4.8	455	
3012	115.0	120.0	5.0	4.8	5	
3013	120.0	123.0	3.0	3.0	20	
3014	123.0	130.0	7.0	7.0	150	
3015	130.0	136.0	6.0	5.7	20	
3016	154.0	161.0	7.0	7.0	<5	
3017	169.0	178.4	9.4	7.2	30	
3018	185.0	190.2	5.2	5.2	20	
3019	192.4	196.8	4.4	4.4	5	
3020	196.8	201.8	5.0	5.0	**14,100**	10cm quartz-po vein
3021	201.8	205.0	3.2	2.7	20	
3022	205.0	210.0	5.0	4.9	40	
3023	243.5	250.5	7.0	6.5	5	
3024	268.0	276.0	8.0	7.6	15	
3025	276.0	283.2	7.2	7.2	<5	
3026	283.2	290.0	6.8	6.8	10	
3027	290.8	296.0	5.2	5.2	5	
3028	324.0	330.0	6.0	6.0	<5	
3029	330.0	335.0	5.0	5.0	5	
3030	335.0	341.0	6.0	5.6	15	
3031	341.0	346.0	5.0	5.0	5	
3032	346.0	351.0	5.0	5.0	5	

ABO 03-1		AZ 124/-44 Dip						HOLE NO. ABO 03-01					
DEPTH		DESCRIPTION	R	STRUCTURE		ALTERATION	METALLIC	SAMPLE DATA				RESULTS	
(metres)			E	Angles	Veins		MINERALS						
From	To		C.				%	Sample	From	To	Length	Au	Ag
			%					No.			m	g/t	g/t
107 (351')	135.5	**Quartz Diorite, med. grained, eqigranular**	98			chl. ± patchy sil	3% py, 2-3% po						
		1% quartz stringers, +/-calcite with 20%py		50-70	qtz ± cal		4% py, 2%po, tr aspy, moly, bis?	3033	107.0	108.5	1.5	<0.03	<0.2
		pyic fractures		60,30	fracts.								
		1% quartz stringers, +/-calcite with 10% ser		20,45, 60,70	qtz,sil,fel	more sil (mod)	3% py 2 po	3034	108.5	110.0	1.5	<0.03	<0.2
		py, po cp, moly, stwk,fine sil str		60°	qtz ± cal		3-4 py, 3po,	3035	110.0	111.5	1.5	<0.03	<0.2
				35-55	qtz ± cal,py,po		4 po, 3 py, tr moly	3036	111.5	113.0	1.5	<0.03	<0.2
				15	qtz, qtz - py								
				15-45	po str								
				25,70	qtz/cal,po	chl ± w sil	4 po, 2 py	3037	113.0	114.5	1.5	<0.03	<0.2
							tr cp, sp						
		2.5cm quartz-pyrrhotite stringer with 40% pyrrhotite, some hybrid hornfels.		45,20, 80	qtz ± cal, po	chl ± w-m sil	5 po, 2-3 py, tr cp	3038	114.5	116.0	1.5	5.6	10.2
				20,45	"	" w sil	2 po 2 py	3039	116.0	117.5	1.5	0.03	0.2
				70,45, 70	"	" m sil	3 po 2 py	3040	117.5	119.0	1.5	0.04	0.2
							tr cp						
						" m sil	3 po 2 py, tr cp,bis?	3041	119.0	120.5	1.5	<0.03	<0.2
							3 po , 2py, tr cp	3042	120.5	122	1.5	<0.03	<0.2
		less pyrrhotite, more pyrite					3 po, 2 py	3043	122.0	123.5	1.5	<0.03	<0.2
				35°	qtz-cal	" w sil	3 py, 1-2 po						
				45;50	qtz-ser	chl ± w sil	3 % po, 1py	3044	125.8	127.8	2.0	<0.03	<0.2
					qtz±cal								
				45-70	qtz ± cal	chl ± w-m sil	3 po 2 py	3045	127.8	129.3	1.5	<0.03	0.2
						chl ± w sil	1% po, 1% py						

ABO 03-1		AZ 124/-44 Dip						HOLE NO. ABO 03-01						
DEPTH		DESCRIPTION	R	STRUCTURE		ALTERATION	METALLIC	SAMPLE DATA				RESULTS		
(metres)			E	Angles	Veins		MINERALS							
From	To		C.				%	Sample	From	To	Length	Au	Ag	
			%					No.			m	g/t	g/t	
				45-70	qtz ± cal	chl ± m sil	3% py, 2 po, tr moly	3046	131.1	132.6	1.5	<0.03	<0.2	
						w chl, mod sil	2 po, 2 py	3047	135.3	136.8	1.5	<0.03	0.2	
				15°	contact, qtz-cal									
135.5-	136.7	**Silicified quartz diorite**		55,15	qtz ± cal									
				65°	L. ctc									
136.7 -	141.6	**Quartz diorite with 25% intervals of hornfels.**		55°	qtz-cal	chl, w sil	2 po, 2py	3048	136.8	138.3	1.5	<0.03	0.2	
						w chl , msil	4 po, 1py							
141.6 -	143.4	**Intermediate dyke**		65, 60°	U ctc		1 po, 1 py							
143.4 -	148.5	**Quartz diorite with 25% intervals of hornfels.**				w chl, w sil	3 po 2 py							
				10,45	qtz-cal	w chl, m sil	3-4 po 3py	3099	144.6	146.1	1.5	<0.03	<0.2	
							3.4 po, 3 py, tr moly	3050	146.1	142.6	1.5	<0.03	0.4	
		147.6-.8 - fault		40° ?	FAULT	chl, w sil, bio								
				85°, 20	qtz cal	chl w sil, bio	py po, aspy	3051	147.6	148.5	0.9	0.77	1.4	
				10°	ctc	"								
148.5 -	189.8	**Quartz Diorite, med. to coarse grained, eqigranular,** 1% qtz str		55°, 45	qtz + po	"	3-4 po, 3 py	20251	148.5	150.0	1.5	<0.03	<0.2	
		148.7 km - po, py str			str									
				45,65° 20°	qtz + po	chl w sil	2 po, 3 py	20252	150.0	151.5	1.5	<0.03	<0.2	
				30,45	qtz, py	"	2 po, 3-4 py	20253	151.5	153.0	1.5	<0.03	<0.2	
				30°, 55	qtz	"	2 po 3 py	20254	153.0	154.0	1.0	<0.03	<0.2	
				30°, 55	"	"	2 po 3 py	20255	154.0	155.5	1.5	<0.03	<0.2	
				30	"	"		20256	155.5	157.0	1.5	<0.03	<0.2	
				30	"	"	2 po 4 py	20257	157.0	158.8	1.8	0.03	<0.2	
				15,80, 45,30	qtz / py	chl, w sil, w bio	2 po 4 py	20258	158.9	160.4	1.5	<0.03	<0.2	
				20-40, 70	qtz / py	"	"	20259	160.4	161.9	1.5	<0.03	<0.2	

ABO 03-1		AZ 124/-44 Dip						HOLE NO. ABO 03-01					
DEPTH		DESCRIPTION	R	STRUCTURE		ALTERATION	METALLIC	SAMPLE DATA			RESULTS		
(metres)			E	Angles	Veins		MINERALS						
From	To		C.				%	Sample	From	To	Length	Au	Ag
			%					No.			m	g/t	g/t
				20-40, 70	qtz / py	"	"	20259	160.4	161.9	1.5	<0.03	<0.2
		more pyrrhotite as stringers and blebs, tr cp @ 163.2		20-40 , 70	qtz	"	3 po 3 py, cp	20260	161.9	163.4	1.5	<0.03	<0.2
				70	py, po								
						"	2 po 3 py	20261	163.4	164.9	1.5	<0.03	<0.2
				45	feldy								
				70	qtz	"	tr moly, 3 po 3 py	20262	164.9	166.4	1.5	0.07	<0.2
				80-90	qtz±po,py	w chl, sil, bio	po 4-5, 2 py,	20263	166.4	167.0	1.2	0.34	0.4
				30,00	py		tr cp						
				60, 35	qtz ± po	"	po 4, 2 py	20264	167.6	168.9	1.3	<0.03	<0.2
				45,80	qtz ± py	"	2 po, 2 py	20265	168.9	170.4	1.5	0.08	<0.2
				55,30	qtz		1 po, 2 py						
				30-60	qtz		3-4 po, 2 py	20266	172.8	175.2	1.4	0.04	<0.2
				60	qtz + po								
				80	qtz + cal								
				20,30-60, 80	qtz,qtz cal		3 po, 2 py ±tr. aspy	20267	175.2	176.7	1.5	<0.03	0.2
				40,75	qtz ± po		5 po , 3 py tr moly, cp,	20268	176.7	177.7	1.0	0.03	0.2
				5-10°, 55-70	qtz, py, po		4 po, 3 py	20269	177.7	179.1	1.4	<0.03	<0.2
				70°	qtz, fel		2 po, 2py	20270	180.0	181.4	1.4	<0.03	<0.2
				45 80			1-2 po, 2 py	20271	181.4	182.7	1.3	0.08	<0.2
				37°	feldy								
						wchl, sil, bio	1-2 py,1/2 po						
							1-2 po, 2 py	20272	187.0	188.5	1.5	0.04	<0.2
				55	fel	"							
				15, 37	qtz ± wcal	wchl, sil, bio, lim	2 po 2 py	20273	188.5	189.8	1.3	0.04	0.2
189.8-	191.2	**Fault zone in hybrid quartz diorite.**		70° ??	Fault	wchl, sil, bio slim	2 po 2 py	20274	189.8	191.2	1.4	0.07	0.2

ABO 03-1		AZ 124/-44 Dip						HOLE NO. ABO 03-01					
DEPTH		DESCRIPTION	R	STRUCTURE		ALTERATION	METALLIC	SAMPLE DATA				RESULTS	
(metres)			E	Angles	Veins		MINERALS						
From	To		C.				%	Sample	From	To	Length	Au	Ag
			%					No.			m	g/t	g/t
				70	qtz str								
191.2 -	194.9	**Hybridized quartz diorite with 30% felsite dykes and stringers and brecciation of hornfelsed mseds.**		70 °	qtz	wchl, sil, bio	3 po 2 py, tr moly ?	20275	191.2	191.7	0.5	0.02	0.2
				45	felsite								
							1 po 1 py	20276	191.7	193.2	1.5	0.02	<0.2
						wchl, sil, m. bio	1po 1py	20277	193.2	194.9	1	0.01	<0.2
				50°	fel dy								
194.9-	197.4	**Argillite, minor quartz diorite.**					1 po py	20278	194.9	196.4	1.5	0.02	<0.2
				30°, 58°	Arg. Ctcs		1 po py	20279	196.4	197.4	1	0.03	<0.2
197.4 -	202.0	**Quartz diorite with 40% argillite and weakly hornfelsed zones.**				w Chl wsil, bio							
				70 45	qtz	w chl, m sil,	3 po,2 py, cp	20280	199.7	201.2	1.5	0.02	0.2
							3 po 2 py	20281	201.2	202.5	1.3	<0.01	<0.2
202.0 -	228.7	**Hornfels,** with calc-silicate zones		50°	U ctc	m - s bio, w-s CS		20282	202.5	204.0	1.5	0.01	0.2
								20283	204.0	205.5	1.5	0.01	0.2
								20284	205.5	207.0	1.5	<0.01	<0.2
								20285	207.0	208.5	1.5	<0.01	<0.2
							3 po, 2 py	20286	208.5	210.6	2.1	<0.01	<0.2
					quartz		po cp bism	20287	215.0	216.5	1.5	<0.01	<0.2
								20288	216.5	218.0	1.5	<0.01	<0.2
		pyrrhotite, py stringers and qtz-po						290	219.1	221.2	1.0	<0.01	0.2
		felsite dyke						291	221.2	223.7	1.5	<0.01	<0.2
		pyrrhotite,chalcopyrite stringers						292	223.7	224.2	1.5	<0.01	<0.2
		pyrrhotite-quartz						293	224.2	225.7	1.5	<0.01	<0.2
		pyrite						294	225.7	227.2	1.5	<0.01	<0.2
EOH		pyrrhotite, chalcopyrite						295	227.2	228.7	1.5	<0.01	<0.2

ABO 03-2		AZ 124/-60 Dip			1			HOLE NO. ABO 03-02					
DEPTH		DESCRIPTION	R	STRUCTURE		ALTERATION	METALLIC	SAMPLE DATA			RESULTS		
(metres)			E	Angles	Veins		MINERALS						
From	To		C.				%	Sample	From	To	Length	Au	Ag
			%					No.			m	g/t	g/t
0-	2.4	**CASING**											
2.4-	14.6	**Hornfels**	95	55	calc-sil banding	w bio ± w calc-sil, w lim	1 py, 1po						
		9.7m - 15 cm quartz-silica zone	98	70, 40, 50	qtz-py str sil zone		2 py 1-2 po, tr moly	20348	9.2	10.2	1.0	0.015	0.2
		12.0-14.5 - dry fracture zone	58	50	fault	+m lim, w, ser							
14.6 -	16.0	**Mafic dyke**	100			s chl, wbio							
16.0	16.8	**Hornfels - grit to conglomerate,** tops uphole	100	70 °	bedding	w-m bio, w calc-sil, wchl							
16.8 -	22.9	**Hornfels**	95	- 60°	banding	w-mbio, ± wchl,	1 py 1 po						
		17.8-18.1 - fracture zone		30°	fracts								
				35°	fract								
22.9	28.0	**Hornfels**, carbonate altered	95	20,35,65	fract	bio, m -s lim, w carb, +/- w ser							
				50°	alt'n ctc								
28.0 -	34.1	**Hornfels** tops uphole	98	60-70	banding	mbio, wlim, wser chl	2 po 1-2 py						
		minor felsite dykes		10-15°	fel								
				25°	qtz str								
				60°	qtz str	+ m lim, w ser ±carb	2 py 2 po	20349	31.9	33.0	1.1	0.15	1.6
			100	20	str		1 py, 1 po	20350	33.0	34.1	1.1	0.005	0.2
34.1 -	35.4	**Hornfels,** weakly granitized	80	20°	ctc	bio, m lim,mser ± w clay w chl	1py, 1po	20351	34.1	35.1	1.0	0.01	0.4
		contact zone				wbio, m-s ser, m lim	1py, 1po	20352	35.1	36.6	1.5	0.005	<0.2
35.4-	44.7	**Quartz Diorite,** medium to coarse grained, limonitic	97	50	fract.	chl, wlim wser	2po, 2py	20353	36.6	38.1	1.5	0.01	<0.2
					"	" " "wcarb	2po, 2py	20354	38.1	39.6	1.5	0.010	<0.2
		10% stringers	93	15-25, 35	qtz ± cal str		2 po 3 py tr cp	20355	39.6	40.6	1.0	0.010	<0.2
				25	py seams								
		rare stringers, crushed zones	93			mlim, mser, wchl							
							2py 1-2 po	20356	40.6	42.1	1.5	0.100	0.5
		hornfels xenolith from 43.3-44.7m	93	22°	L. ctc.	mlim m ser wchl	2py 1-2 po						

ABO 03-2		AZ 124/-60 Dip			2			HOLE NO. ABO 03-02					
DEPTH		DESCRIPTION	R	STRUCTURE		ALTERATION	METALLIC	SAMPLE DATA			RESULTS		
(metres)			E	Angles	Veins		MINERALS						
From	To		C.				%	Sample	From	To	Length	Au	Ag
			%					No.			m	g/t	g/t
44.7-	51.0	**Quartz Diorite,** medium grained, minor quartz stringers	100	15-50°	qtz str	w ser wchl w,b,o	2py, 2po						
		47.3 - 49.5 Quartz Stringer Stockwork Zone	100	15-50°	qtz str	w ser wchl w-m bio	2py 2po	20357	47.3	48.8	1.5	0.005	<0.2
				20°	qtz vein		2 py, tr po	20358	48.8	49.8	1.0	0.005	<0.2
51.0	57.2	**Quartz Diorite,** medium grained, limonitic, broken, crushed zones	97			w ser, chl, bio, lim	2po 2py						
		3% quartz stringers		25	qtz vn	w-mser, mlim, wchl, bio	2po, 2py	20359	52.2	54.7	1.5	0.675	0.6
57.2-	61.0	**Quartz Diorite,** medium grained, with 1-2% quartz stringers	100	5,15-25	qtz str	w ser, chl, bio	3po 2py, magnetite						
				30°	qtz								
				70,5	qtz								
61.0	70.3	**Quartz Diorite,** with <1% quartz stringers		22°	qtz		2po, 2py	20360	67.8	68.8	1.0	0.015	<0.2
				45	qtz, fel								
70.3-	74.9	**Quartz Diorite,** with 5% felsite dykes	100	30.45	fel dys	w chl bio, ser	2py 2po						
74.9-	106.2	**Quartz Diorite,** medium grained, minor quartz stringers					2 py 2po						
		10% quartz in zone		20°	qtz str	m ser	2 py 2po	20361	78.1	79.1	1.0	0.005	<0.2
						w chl bio ser	2py, 2po, tr cp	20362	79.1	80.1	1.0	0.005	<0.2
				45	qtz-py								
		digested hornfels		55-60	qtz-py	bio, ser, carb	3po 3-4 py	20363	82.7	83.7	1.0	3.62	10.7
				40	ctc								
				60	qtz py po str								
				45	fel dys								
						m chl w bio w-m ser	4 py, 2po	20364	88.7	91.3	1.6	0.030	<0.2
		91.1-91.3		05°	py -qtz str		10% py						
		from 97.5-106.2		75	stringer	+ w sil							
		97.3-98 partly digested hornfels		27-30	U. ctc		3po, 2py	20365	97.3	98.8	1.5	0.025	0.6
				25-30	qtz str								
				25	cal -qtz str								
		from 98.6-98.8m		20-30	qtz - py		3py 2po						

ABO 03-2		AZ 124/-60 Dip						HOLE NO. ABO 03-02					
DEPTH		DESCRIPTION	R	STRUCTURE		ALTERATION	METALLIC	SAMPLE DATA				RESULTS	
(metres)			E	Angles	Veins		MINERALS						
From	To		C.				%	Sample	From	To	Length	Au	Ag
			%					No.			m	g/t	g/t
106.2-	116.1	**Quartz Diorite,** with 5% felsite dykes	100	45,30	feldys	w chl, wbio, w-m ser ± carbonate	3py, 1-2po						
		from 106.2 - 110.9				+ wsil							
				25	cal-qtz str	+ carb,s ser		20296	109.7	110.5	1.2		
				15°	cal-qtz str	+ carb,s ser		20297	110.9	112.0	1.2		
		5° pyrite seams cut quartz stringers		30-40	qtz str ± py	w sil, chl	3 py, tr moly	20298	114.6	116.1	1.5	<0.01	<0.2
116.1-	121.8	**Hybrid Zone**	98			m-s chl, m bio, sil							
				75,30	py str	s chl	2 py 2po	20299	116.1	117.3	1.2	<0.01	<0.2
		Breccia, hornfels fragments, hybrid		70, 30	q str, py		7 py, 5 po, aspy	20300	117.3	117.8	0.5	<0.01	<0.2
		117.4- 3cm sulfide vein		20 , 50	sulf vn								
		50% hornfels, 50% quartz diorite		30	py	s chl, w csil, m bio	5 py 3po tr cp	20301	117.8	118.8	1.0	<0.01	<0.2
		119.9 - 4 cm qtz vein at contact btw hfs and qtz diorite with 10% qtz stringers		55, 15	Contact vein		4 py 2po, tr cp	20302	188.8	120.3	1.5	<0.01	<0.2
				10 °	Contact	mchl, bio, w sil	3 po, 3 py tr cp	20303	120.3	121.5	1.5	<0.01	<0.2
				30	qtz str								
				50°	banding								
121.8-	132.7	**Hornfels, some hybrid**	98	65°	qtz str	bio ser chl	4py 3po trcp	20304	121.8	123.3	1.5	<0.01	<0.2
		NB py-po ± qtz str cut qtz py str at ?		some 35,45									
				35, 57°	py,po str banding		5py, 5po, 2 mte	20305	123.3	124.8	1.5	<0.01	<0.2
				35°	qtz str + po ±cp	bio ser chl	3py, 7po, tr cp	20306	124.8	126.3	1.5	<0.01	<0.2
				20-30	qtz		2py 2po	20307	126.3	127.8	1.5	<0.01	<0.2
				5, 20	po ± cp str		5 po, 1 py	20308	127.6	129.7	1.9	0.53	0.8
				60°	qtz -po str								

ABO 03-2		AZ 124/-60 Dip			4			HOLE NO. ABO 03-02					
DEPTH		DESCRIPTION	R	STRUCTURE		ALTERATION	METALLIC	SAMPLE DATA			RESULTS		
(metres)			E	Angles	Veins		MINERALS						
From	To		C.				%	Sample	From	To	Length	Au	Ag
			%					No.			m	g/t	g/t
				40°	qtz ± po	w ser, bio	1 py, 2 po	20309	129.7	130.7	1.0	0.03	<0.2
		15 and 10 cm white and grey banded quartz veins with pyrrhotite,chalcopyrite		45	qtz vein	chl bio, sil	10 po, cp	20310	130.7	131.7	1.0	18.0	31.6
				45-50	8 cm qtz vein		3 po, tr cp, 2py	20311	131.7	132.7	1.0	0.01	0.6
132.7-	133.7	**Contact Zone**		25-30,55	qtz up to 1.5cm	chl bio sil	2py 1 po	20312	132.7	133.7	1.0	<0.01	<0.2
133.7-	135.5	**Quartz Diorite**		5°	rare py str		2py dissem	20313	133.7	135	1.5	0.01	<0.2
135.5-	136.7	**Hybrid zone,** quartz diorite with digested hornfels		50°	contact, qtz ±po str	m ser, bio	3-4 po, cp, py	20314	135.2	136.7	1.5	0.37	0.8
136.7-	204.2	**Quartz Diorite,** with minor quartz stringers and felsite dykes		30°	py str	w chl, bio	3py, 1po	20315	136.7	138.2	1.5	0.02	<0.2
				70°	qtz str		2 po, 1py	20316	143.4	144.9	1.5	<.005	<0.2
		146-147.5m felsite dyke		40, 30°	ctc								
				35°	qtz str		3 po 2py, moly	20317	147.2	148.7	1.5	<.005	<0.2
		fine grained quartz diorite dyke		40°	dy		1 py						
				20-30 °	qtz py ± po								
				60°, 30	qtz-chl qtz-py		2 po, 3 py	20318	148.7	149.7	1.0	0.005	<0.2
					qtz str		3po, 2py, tr sp moly	20319	149.7	151.2	1.5	<.005	<0.2
		13 cm banded quartz vein with pyrite, pyrrhotite, sericite, chlorite		65°	qtz vein		4po 2py	20320	154.4	155.6	1.2	4.7	8.6
							2% mte, 3py 1 po, tr sp	20321	155.5	156.8	1.1	0.005	0.9
		fresh					2% mte, 2py, 1po	20322	156.8	158.3	1.5	0.005	0.3
				40°	qtz str		2 po 2 py	20323	158.3	159.3	1.0	0.095	0.6
		fresh						20324	159.3	161.3	2.0	0.005	<0.2
(161.3-	183.5)	**silica altered zone with more digested hornfels patches**		30,40,60	qtz str	m sil, m ser, m bio , w chl	2-5 po, 2py, tr sp	20325	161.3	162.8	1.5	0.06	1.2
		tr cp with po @ 162.8 in 7 cm qtz cal-py vein zone, tr moly in qtz and fract		50-70	qtz cal str		4 po, 3py, tr moly, cp	20326	162.8	164.2	1.5	0.005	0.5

ABO 03-2		AZ 124/-60 Dip						HOLE NO. ABO 03-02					
DEPTH		DESCRIPTION	R	STRUCTURE		ALTERATION	METALLIC	SAMPLE DATA			RESULTS		
(metres)			E	Angles	Veins		MINERALS						
From	To		C.				%	Sample	From	To	Length	Au	Ag
			%		5			No.			m	g/t	g/t
				40°	qtz cal str		5po, 2-3 py, tr moly	20327	164.2	165.7	1.5	0.005	0.4
		166.2 - 3 cm massive po vein		45°	po str		10% po, 2 py tr cp, tr moly	20328	165.7	166.7	1.0	0.005	0.3
							4% po, 2py, tr moly	20329	166.7	167.7	1.0	0.005	<0.2
		10% quartz-calcite stringers		40°, 20	qtz cal		5% po 2 py tr moly trcp	20330	167.7	169.2	1.5	0.005	<0.2
		3% quartz stringers		30,80,45	qtz-cal		3po 2py	20331	169.2	170.2	1.0	0.005	<0.2
				30,80,50	qtz str	s sil, ser, bio	5-6 po, 4py	20332	170.2	171.7	1.5	0.005	<0.2
						m-wsil, w ser, bio	2py, 3po	20333	171.7	173.2	1.5	0.005	<0.2
				55,	qtz str		3py, 3po, tr moly	20334	173.2	174.7	1.5	0.005	<0.2
				30°	qtz str		2py 3po, tr cp, moly	20335	174.7	176.2	1.5	0.005	<0.2
		176.2-182 felsite dykes up to 20 cm		40°	fel dys		3py, 2po						
				55, 40°	qtz str, L ctc		2py, 3po, tr moly	20336	182.0	183.5	1.5	0.045	0.4
		fine grained quartz diorite dyke		50, 40°									
		minor fault @ 178.1 and 184.7m		25°	ser fract								
		felsite dyke with po		40°	feldy		1py 2-3 po	20337	186.1	186.9	0.8	0.005	<0.2
				45°	po chl								
				20, 35,50	qtz seams		2py 2po	20338	189.2	191.2	2.0	0.01	<0.2
							2py 2po, tr cp/moly	20339	191.2	192.7	1.5	0.005	<0.2
								20340	192.7	194.2	1.5	0.005	<0.2
							2 po, 1 py, tr cp	20341	194.2	195.7	1.5	0.01	<0.2
								20342	195.7	197.2	1.5	0.005	<0.2
		15% quartz in section with 15 cm quartz-weak calcite vein @ 197.5		50°	qtz cal		4 po 1-2 py, tr cp, moly	20343	197.2	198.2	1.0	5.1	7.8
				20,50	qtz	wchl,sd, bio	2po 2py	20344	198.2	199.7	1.5	<.005	<0.2
				55,10,30	qtz, po		3po, 2py	20345	199.7	201.2	1.5	<.005	<0.2
				45	qtz		2po, 2py	20346	201.2	202.7	1.5	<.005	<0.2
EOH				45	qtz		3 po 2py, tr cp, moly	20347	202.2	204.2	1.5	0.025	<0.2

ABO 03-3		AZ -/-90 Dip			1			HOLE NO. ABO 03-03					
DEPTH		DESCRIPTION	R	STRUCTURE		ALTERATION	METALLIC	SAMPLE DATA				RESULTS	
(metres)			E	Angles	Veins		MINERALS						
From	To		C.				%	Sample	From	To	Length	Au	Ag
			%					No.			m	g/t	g/t
0-	3.0	**CASING**											
3.0-	25.0	**Hornfels,** rubbly, possible large xenolith	87	30°	fractures qtz str	bio, wlim	1py ± 1po tr mte						
		tops uphole		70°	bedding								
		14.4m -20 cm fault zone, brecciated		30°	FLT								
		20.9 - 25 cm bleached zone		35°	altn ctc	bio, lim + ser							
		22.5- 22.8 limonitic fracture zone		60°	lim fract	s lim		20366	22.4	22.9	0.1	0.075	0.7
25.0-	43.3	**Hornfels,** competent	94			bio ± w ser, lim	1py, ± po						
			97	55-60	fract, qtz str			20367	30.53	31.5	1.0	0.640	1.4
				60,85	qtz str								
				25°	fel								
				25-30, 60	qtz, py str								
				88	qtz -po str								
		35.6-38.6 quartz vein/stockwork zone		10	qtz str	m bio, wlim, sil, chl	5 py, tr moly	20368	35.6	37.1	1.5	0.005	<0.2
				10	qtz str	" " "	3py,tr moly	20369	37.1	38.6	1.5	0.010	0.2
		calc silicate development		55	banding		1 py 1 po						
				35	qtz str		1py, 1po, tr moly	20370	40.4	42.2	1.8	0.005	<0.2
		42.1-42.3 felsite dyke		10	fel dy								
43.3-	45.2	**Mafic dyke**	93	75	ctc	schl							
		43.35 - 2 cm clay seam		75	flt								
45.2 -	54.7	**Hornfels,** 7% felsite dykes	83	20, 35, 75	qtz str	m bio, w lim	2 py, 1 po	20371	53.2	54.7	1.5	0.005	<0.2
				20,30	fel dys								
54.7-	57.1	**Contact Zone**	98	30	qtz-po str								
		54.7- 55.5 hybrid hornfels				mbic,sil,chl ,ser	2-3py,5po	20372	54.7	55.5	0.8	4.520	5.8
		at 54.7 gouge with po, py		50	gouge	mchl mbio	5 po, 3 py						
		55.5-56.1 quartz diorite, 5% qtz strs		70	qtz vn	m sil, chl w-s ser		20373	55.5	56.1	0.6	0.020	0.5
		56.1-57.1 silicified hornfels, 2-3 dissem po, qtz-po veins to 4 cm		45; 20, 35,	ctc; qtz str, vn	m-s bio,s sil	8po, 1 py, tr cp	20374	56.1	57.1	1.0	0.030	0.2
		calc sil		70	banding	wser,w calc-sil							
		56.2 - 25 cm felsite dyke		55	fel dy	s ser in fel							

ABO 03-3		AZ -/-90 Dip						HOLE NO. ABO 03-03						
DEPTH		DESCRIPTION	R	STRUCTURE		ALTERATION	METALLIC	SAMPLE DATA					RESULTS	
(metres)			E	Angles	Veins		MINERALS							
From	To		C.		2		%	Sample	From	To	Length	Au	Ag	
			%					No.			m	g/t	g/t	
57.1-	63.4	**Quartz diorite,** 3% felsite dykes				mchl, w bio	2py, 1po, tr mte	20375	57.1	58.6	1.5	0.010	<0.2	
		58.9 - 20 cm felsite dyke		20	fel dy									
63.4-	69.7	**Quartz diorite,** 10% felsite dykes, 5% hybridized hornfels		35	qtz str	m bio, chl, ser, w sil	5po, 1py, 1mte	20376	63.4	64.4	1.0	0.005	<0.2	
				10,25-30	qtz-po str		5po, 2py 1 mte	20377	64.4	65.4	1.0	0.010	<0.2	
		65.9- 66.0 -hybrid hornfels		40	qtz-po, py		8-10 po, 1py, 2 mte, tr cp	20378	65.4	66.4	1.0	2.04	2.6	
		66.0 - 25 cm felsite dyke		70, 30	contacts	stronger ser								
		66.4-67.9 -quartz diorite					2py, 2po	20379	66.4	67.9	1.5	0.010	<0.2	
		3-4% quartz stringers		20-30	qtz str - po,py		3py, 2po, tr moly	20380	67.9	69.4	1.6	0.005	<0.2	
				75	qtz-po str									
69.7-	92.3	**Quartz diorite**		25,5,45	qtz str	m chl,wbio,wser	2po,3py,1mte							
				20	fel dy									
		quartz stringers with 60% po, 40% py					6po, 4py, tr cp	20381	79.2	80.2	1.0	2.300	10.4	
								20382	91.9	92.9	1.0	2.980	5.5	
							2 py, 1 po							
92.3	103.7	**Quartz diorite,** with hornfels xenoliths		75	qtz-po	m bio, mchl, w-s ser	3-4 po 1 py, tr cp	20383	92.9	93.9	1.0	1.800	5.8	
								20384	99.3	100.8	1.5	0.020	<0.2	
							1 py , 1 po	20385	100.8	102.3	1.5	0.015	<0.2	
		hybrid hornfels, with 18 cm qtz stringer at 102.7m with po, py, cp, bismuthinite		75-85	qtz vn		6 po, 3py, tr cp moly bism	20386	102.3	103.3	1.0	8.600	18.7	
								20387	103.3	104.3	1.0	0.015	<0.2	
								20388	no sample					
103.7-	110.5	**Quartz diorite,** minor felsite				mchl	2 py , 1 po							
				15, 35	qtz str		2 py, <1/2po	20389	109.0	110.5	1.5	<0.005	<0.2	
110.5-	119.1	**Hybrid quartz diorite**, with 5% qtz stringers		30,50	qtz str	mchl wbio,wser	4 po , 2 py, cp							
				70	qtz str	mchl,mbio,mser	2 py, 2 po	20390	110.5	111.5	1.0	0.005	<0.2	
				20-30	qtz str	mchl,mbio,wser	2 py, 2 po	20391	111.5	112.8	1.3	0.015	<0.2	
				5, 45	qtz str	mchl,wbio,wser	3 py , 2 po	20392	112.8	114.5	1.7	0.005	<0.2	
		Fine grained quartz diorite dyke , hybrid diorite, qtz stringers and po				mchl,wbio,wser	6 po , 3 py, tr cp	20393	114.5	115.7	1.2	0.015	<0.2	
				5-10,	qtz str	m chl, w bio	2 py, 2 po	20394	115.7	117	1.3	<.005	<0.2	
						mchl - wser	4 py ,2 po	20395	117.0	118.2	1.2	<.005	<0.2	
				30	L. ctc	wchl,mbio,wser	3 py , 2 po	20396	118.2	119.2	1	<.005	<0.2	

ABO 03-3		AZ -/-90 Dip						HOLE NO. ABO 03-03					
DEPTH		DESCRIPTION	R	STRUCTURE 3		ALTERATION	METALLIC	SAMPLE DATA				RESULTS	
(metres)			E	Angles	Veins		MINERALS						
From	To		C.				%	Sample	From	To	Length	Au	Ag
			%					No.			m	g/t	g/t
119.1-	121.0	**Felsite dyke**		35	qtz str			20397	119.2	121	1.8	<.005	<0.2
				15	ctc								
121.0-	150.0	**Hornfels, minor hybrid zones and quartz diorite**		15,50	qtz str		4 py , 2 po	20398	121.0	122.5	1.5	<.005	<0.2
				40	banding	mchl,mbio,wser	20%po 3py trcp	20399	122.5	124.1	1.6	0.205	1.1
				80	qtz-chl-py	mbio,mchl,wser	3 py , 4 po	20400	124.1	125.6	1.5	0.01	<0.2
				10,15	fine qtz str	" "							
							3 py , 3 po	20401	125.6	127.1	1.5	0.005	<0.2
				5,10	py+/or po	" "							
				40	str	" "							
				45	banding								
				5, 40	qtz str		3 py ,2 po, moly	20402	127.1	128.6	1.5	0.005	<0.2
				10,70	po str		3 py, 4 po, trcp	20403	128.6	129.6	1.0	2.680	7.3
				15,30	py,po str	mchl,mbio,wser	6 po, 3 py	20404	129.6	131.1	1.5	0.005	0.3
				10,30	qtz-py,po	" "	6 po,3 py,3 mte	20405	131.1	132.6	1.5	0.010	<0.2
				30-35	banding								
				5,15	qtz str	mchl,wbio,wser	4 py , 2 po	20406	132.6	133.1	0.5	0.01	<0.2
		134.5-134.9 - felsite dyke		30	fel dy		tr moly						<0.2
				5,15	qtz str	mchl,wbio,wser	2 py , 2 po	20407	136.4	137.9	1.5	0.055	0.2
				40,70	qtz-po str		4 po , 1 py	20425	141.0	143	2	0.02	<0.2
		143.3-143.9 - felsite dyke		20	fel dy	wchl , mser	3 py , 2 po	20426	143.0	144.5	1.5	0.040	<0.2
		quartz diorite		15, 20	py,qtz str		3 py	20408	144.5	146.1	1.5	0.050	<0.2
		146.6-146.9 quartz vein in hfs		80	qtz vein	w-mchl,w-mser,wbio	10 po,3 py, tr cp,aspy	20409	146.1	147.6	1.5	14.2	29.5
		quartz diorite		5-45	py,po str	mchl,wser>wbio	3 po, 2 py, trcp	20410	147.6	149.0	1.4	0.04	0.3
		hornfels		70	qtz str	wchl,wbio	2 py , 2 po	20411	149.0	150.0	1.0	0.025	<0.2
				50-70	ctc								
						wchl>wser	2 py , 1 po						
				2,20,30	fel dys		2-3 mte						
				45-55	fel dys								

ABO 03-3		AZ -/-90 Dip						HOLE NO. ABO 03-03					
DEPTH		DESCRIPTION	R	STRUCTURE		ALTERATION	METALLIC	SAMPLE DATA				RESULTS	
(metres)			E	Angles	Veins		MINERALS						
From	To		C.				%	Sample	From	To	Length	Au	Ag
			%					No.			m	g/t	g/t
150-	204.8	**Quartz diorite,** 7% felsite dykes				w chl, w ser	2 py , 1 po						
				15-20	qtz str	mchl, wser	2 py , 2 po	20412	150.0	151.5	1.5	0.02	0.2
		30% felsite dykes		30	fel dys	wchl , wser	2 py,2 po,tr cp	20413	153.5	155.0	1.5	0.025	<0.2
				75-80	qtz-po str								
		155.3-156.2 fg granodiorite dyke		12	dy		1% py , 1 mte	no sample					
		40% felsite dykes		20,55	fel dys	wchl,mser	4 po , 1 py trace cp	20427	159.6	161.3	1.7	0.035	<0.2
				30,85	qtz str								
		40% felsite dykes		45,05	fel dys	wchl,w-mser,wbio	1 py	20414	167.0	168	1.0	3.650	15.4
		10 cm quartz vein		70,85	qtz vein		2 po	20415	168.0	168.5	0.5	0.195	1.3
							1 py,1mte,1po	20416	168.5	169.5	1.0	0.020	0.2
				10	qtz str								
				10	py-moly								
				85	qtz str	wchl, w-mser	1 py , 1 po	20417	183.9	185.4	1.5	0.020	0.2
				80-85	qtz str	wchl, w-mser, + w carb	3 po , 1 py, tr aspy,bis	20418	185.4	186.4	1.0	0.105	0.8
				10	fel dy								
				75	qtz str	as above	4 po , 1 py	20419	186.4	187.6	1.2	0.680	1.8
				80	qtz str	as above	2 po , 2 py	20420	187.6	189.1	1.5	0.020	0.2
				10,45,25	qtz str	wchl , wser	2 po , 1 py, mte	20421	192.6	194.1	1.5	0.015	<0.2
				30	qtz-po								
						" "	1 py , 2 po	20422	200.3	201.8	1.5	0.010	<0.2
				5	qtz str	wchl w-mser,wbio	2 po,1 py,tr moly,tr cp	20423	201.8	203.3	1.5	0.025	0.2
				30,75	qtz-po str								
EOH				40	qtz-po str	" "	2 po,1py,trcp	20424	203.3	204.8	1.5	0.005	<0.2

ABO 03-4		AZ -/-90 Dip						HOLE NO. ABO 03-04					
DEPTH		DESCRIPTION	R	STRUCTURE		ALTERATION	METALLIC	SAMPLE DATA				RESULTS	
(metres)			E	Angles	Veins		MINERALS						
From	To		C.				%	Sample	From	To	Length	Au	Ag
			%					No.			m	g/t	g/t
0.0	1.2	CASING											
1.2	15.5	**Hybrid quartz diorite**, med grained, minor xenoliths of hornfels	85			w-m chl, m-s lim, w ser	2 py, 1 po						
		8.2-9.4 - 5% quartz stringers		05,30	qtz str		3 py, 1 po, moly	20428	8.2	9.4	1.2	<.005	0.2
		8.5-9.7 -granitized hornfels											
		9.4-10.8 -less quartz, some stockwork						20429	9.4	10.8	1.4	0.005	0.3
		15.4-15.5 - quartz vein		75	qtz vein			20430	13.1	15.5	2.4	0.050	1.4
15.5	24.1	**Hornfels**	98	45	banding	m bio, w lim, w ser, w calc -sil	2 po, 1 py						
		19.7-21.5 -granitized hornfels		5-10	contact	m ser, w bio	2 po, 3 py						
		22.0-22.6 -5% quartz stringers		60-65	qtz-po	m ser, bleached	3 po, 3 py	20431	21.8	22.8	1.0	0.650	2.5
24.1	27.1	**Mafic dyke** , green colour		25	contact								
				45	contact								
27.1	31.8	**Quartz diorite**, weakly bleached	99			m ser, bleached	1 py, 1 po						
31.8	33.6	**Hornfels,** with minor quartz diorite	98	20	fract		2 po, 1 py						
33.6	36.4	**Quartz diorite**, with 10% hornfels xenoliths		30	L ctc.	w ser, very w bleached	1 py,1po						
36.4	40.1	**Hornfels**					5 po, 2 py						
		with 2% quartz stringers		25			7 po, 2 py	20432	36.4	37.8	1.4	<.005	<0.2
		with 2% quartz stringers		25-30			5 po, 2 py	20433	37.8	39.2	1.4	<.005	<0.2
		with 5% quartz stringers		20, 05			3 po, 1 py	20434	39.2	40.1	0.9	<.005	<0.2
40.1	43.6	**Quartz diorite**, medium grained, minor quartz stringers		20-30	qtz str	w ser	3 po, 1 py						
		42.6-43.6 -xenoliths of hornfels											
EOH													

APPENDIX VI
Diamond Drill Logs

ABO 03-1
Az 124/-44 Dip

Down hole

m	Az	Dip
70.1	124	-44
146.3	124	-43
222.5	127	-41

Depth 228.7m

HOLE No. ABO 03-01

DEPTH (metres) From / To	DESCRIPTION	RECOVERY (%)	STRUCTURE Angles (°ca)	STRUCTURE Veins	ALTERATION	METALLIC MINERALS (%)	SAMPLE No.	FROM	TO	LENGTH m	Au
(35.0) – 107.0 – 135.5	quartz diorite, medium grained, generally equigranular with 5-10% qtz, 50% fsp, 35% chloritized mafics (biotite 5%) (hbl); dissem py and po	98			chlorite, ± patchy sil.	generally 3% py, 2-3% po					
	@ 107-108.5 – 1% quartz±cal stringers with pyrite (py) – up to 20% of stringer, and ± trace arsenopyrite (aspy) with possible bismuthinite and moly – stringers (str) up to 2 cm wide 3% py dissem and along fractures and 2% dissem po.		50-70 60, 30	quartz±cal py/po fractures	" "	4% py, 2% po tr aspy, moly possible bis.	3033	107.0	108.5	1.5	
	@ 108.5-110 – ≈ 1% qt ±cal ± siliceous stringers but generally as finer stwk – 1 Ms stringer up to 2.5 cm → consists of white weathering quartz with 10% fine greenish stwk ≥ 1/2% py occurs as fine str.		20, 45, 60, 70 (stwk)	qtz ±cal, sil, fel	" more sil (mod)	3% py, 2 po	3034	108.5	110.0	1.5	
	@ 110-111.5 – slightly darker overall colour – more po, trace cp @ 110.3m as dissem in with po @ 111.0m 1cm qtz str with py surrounding po grains, tr cp and fine moly, still 1% qtz str.		stwk 60°	fine sil str qtz ±carb with – py, po, cp, moly		3-4% py, 3 po, tr cp, moly	3035	110.0	111.5	1.5	
	@ 111.5 – start to get more po especially in 1st 50cm assoc. with 2 zones 15-20cm wide of strongly assimilated hfs – as str. and dissem some in qtz str. – up to 1cm wide qtz str. (1cm qtz str) with up to 1cm clots of py		1) 35-55 2) 15 3) 15-45	qtz ±carb str ± py/po qtz + qtz-py po str.		4% po, 3% py, trace moly	3036	111.5	113.0	1.5	

NB dissem = disseminated
stwk = stockwork
str = stringer(s)
po = pyrrhotite
sil = siliceous or silica or silicified
ser = sericite
cp = chalcopyrite
hfs = hornfels
qtz = quartz
ctc = contact
tr = trace

HOLE No. AB0 03-01

DEPTH (metres) From / To	GRAPHIC	DESCRIPTION	RECOVERY	STRUCTURE Angles °CA	STRUCTURE Veins	ALTERATION	METALLIC MINERALS (%)	SAMPLE No.	FROM	TO	LENGTH m	Au g/t	Ag g/t	As	Cu ppm		
107.0 – 135.5 (cont'd)		@ 113.0–114.5 – <1/2 % qtz±cal stringers but still signif dissem po and as str; also qtz±cal str with py clots ± tr sp – py around sp		25, 70	{qtz/cal, po	chl ± w sil	4 po, 2 py, tr cp, sp	3037	113.0	114.5	1.5	<.03					
*		@ 114.5–116.0 more qtz str >1% qtz str with py clots; po as str and dissem. – @ 115.6m – 2.5 cm str of qtz @ 20° CA with 40% po, 2% cp, 5% py; in bottom 50 cm zone of highly assim. hfs. – Hi Grade ?; 1–3.5 cm str of felsite @ 45° CA		45, 20, 50	qtz ± cal str	" w-m sil	5 po, 2-3 py, tr cp	3038	114.5	116.0	1.5	5.6	10.2	45	456		1.9 g/t / 4.5 m
		@ 116.0–117.5 still 1% qtz±cal str but less po, only tr sulfide in str, rare po & py str		20 45	" "	" w sil	3 po 2 py	3039	116.0	117.5	1.5	.03					
		@ 117.5–119.0 1% qtz±cal, some po str; minor assim hfs. tr cp with po. @ 118.8 q-calcite with tr cp.		70, 45, 70	" "	" m sil	3 po 2 py tr cp	3040	117.5	119.0	1.5	.04					
		@ 119.0–123.5 1% qtz±cal str, with po and po str ± tr cp with po; darker than above				" m sil	3 po 2 py tr cp, possible tr bis.	3041	119.0	120.5	1.5						
							3 po, 2 py – tr cp	3042	120.5	122.0	1.5						
							3 po, 2 py	3043	122	123.5	1.5						
		from 123.5–126.5 – <1/2 % str, generally less po, more py, still dark colour		35°	qtz-cal	" ± w sil →	3 py, 1-2 po										
	*	(sample if anomalous around it.)															

DEPTH (metres) From / To	GRAPHIC	DESCRIPTION	RECOVERY	STRUCTURE Angles (° <cA)	STRUCTURE Veins	ALTERATION	METALLIC MINERALS (%)	SAMPLE No.	FROM	TO	LENGTH m	RESULTS Au
107.0 – 135.5 (cont'd)		from 125.8 - 127.8 - 0.5m felsic in centre -> consists of qtz-sericite with fine po as dikslen and irreg. str. within generally lighter col. qtz diorite zone with 1% qtz + qtz cal-si str (up to 1.5 cm wide) and 30% of interval consists of qtz sericite felsite (fel) dyke		45; 50	qtz-ser; qtz ± cal	chl ± w sil	3% po, 1 py	3044	125.8	127.8	2.0	
		@ 127.8 - 129.3 - 1% qtz ± cal str with po, some also with py up to 1cm wide; back to dark col. overall		45-70; ↳ some ⊥ CA	qtz ± cal	chl ± w/m sil; 45° CA, 50° CA	3 po 2 py	3045	127.8	129.3	1.5	
		129.3 - 131.1 fewer stringers				chl ± w sil	1% po, 1% py					
		131.1 - 132.6 - 1% stringers with py, lesser po, tr mo		45-70	qtz ± cal	" ± w/m sil	3% py, 2 po tr moly	3046	131.1	132.6	1.5	
		132.6 - 135.5 fewer stringers Still dark overall colour - qtz cal vein at contact		15°	L. ctc contact + qtz vein		1 py 1 po					
135.5 – 136.7		→ 135.5 - 136.7 bit lighter coloured more sulfides and ≥ almost 1% qtz ± cal stringers; some po surrounding py - sil alt'n and/or more felsic phase of qtz Diorite [SIL. QTZ DIORITE]		55; 15; 65°	qtz ± cal str.; L. ctc.	well, m sil	2 po, 2 py	3047	135.3	136.8	1.5	

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DEPTH (metres) From	To	GRAPHIC	DESCRIPTION	RECOVERY	STRUCTURE Angles	STRUCTURE Veins	ALTERATION	METALLIC MINERALS (%)	SAMPLE DATA SAMPLE No.	FROM	TO	LENGTH m	RESULTS Au
136.7	141.6		Quartz Diorite with 25% intervals of hornfels, Typical dark colour ≤ 1% qtz-calcite stringers; more po in the xenoliths of hornfels; hfs is in gy-gn colour, po is dissem + trace str. @ 137.4-138.1 - large hfs xenolith with 4% po; irregular contacts, weakly calcareous in u cte at 55° to CA		55°	qtz-cal	chl, wsil	2po, 2py	3048	136.8	138.3	1.5	
							wchl, msil	4po, 1py					
141.6	143.4		Intermediate-Dyke fine grained intermediate dyke with 15% porphyritic fsp phenocrysts, minor qtz, biotite laths, some hornblende ≤ 5-20%; occasional fragments of Qtz Diorite up to 1cm @ near upper cte. - interval consists of 60% dyke intervals cutting Qtz Diorite and 40% Qtz Diorite with 10% Hfs at start of section		65°	u cte.		1 po, 1 py					
					60°	internal cte.							
					55°	L cte.							
143.4	148.5		Qtz Diorite with 25% intervals of Hfs as in 136.7-141.6 m more po as stringers, some po cumming py in qtz-cal stringers @ 145.37				wchl wsil	3 po 2py					
			@ 144.6 - 148.5 more qtz-cal str (≤ 1%) than above up to 1.5cm wide with py, po, tr moly		10, 45°	qtz-cal	wchl msil	3-4 po 3py	3049	144.6	146.1	1.5	
								3-4 po, 1-3 py tr moly	3050	146.1	147.6	1.5	

DEPTH (metres) From / To	GRAPHIC	DESCRIPTION	RECOVERY	STRUCTURE Angles ∠CA	STRUCTURE Veins	ALTERATION	METALLIC MINERALS (%)	SAMPLE No.	FROM	TO	LENGTH M	g/t Au	Ag	As	Cu
		@ 147.6-.8 FAULT crushed limonitic, weak gougey fault zone		∠ 40° ?	FAULT	lim, chl, w sil, [illegible]									
							py po,	3051	147.6	148.5	0.9	.77	1.4	7690	
		@ 147.8 -148.5 - altered Qtz Diorite and mostly hfs with 1% qtz-cal str. with py, po with aspy @ 148.2 - 1cm wide		85°, 20	qtz cal	chl	w sil, [illegible] ✱ aspy								
				10°	ctc hfs with Qtz	"	"								
148.5-		Quartz Diorite m to coarse grained, with 1% qtz stringers ±py, po, and py str - @ 148.7		55°, 45°	qtz + po	"	" 3-4% 3py	20251	148.5	150.0	1.5	<.03	[illegible]		
					lim po, py, ; py str										
@150		151.5 - less po, more fine dissem py, more py as stringers		45, 65° 20°	qtz	chl	w sil, abv	2po, 3py, tr moly	20252	150.0	151.5	1.5		
@151.5		-153 - even more fine py as str		30, 45	qtz, py	"	"	2po, 3-4py	20253	151.5	153.0	1.5			
153		-154 - as at 150-151.5		30° 55	qtz			2po 3py	20254	153.	154.	1.0			
				30°, 55	qtz			3po 3py	20255	154	155.5	1.5			
				30	"				20256	155.5	157.0	1.5			
		- more pyrite		30	"			2po 4py	20257	157.0	158.8	1.8			
		- more pyrite, esp as str and in qtz		15, 80	qtz	chl, w sil, w bio	2po 4py	20258	158.9	160.4	1.5			
				45, 30	py										
				20-40	qtz		" "	20259	160.4	161.9	1.5				
@ 161.9-163.4				70	py										
		✱ - more po as str + blebs		20-40, 70	qtz		3po 3py	260	161.9	163.4	1.5				
		often surrounding py and in qtz		70	py, po [illegible]		tr cp. @ 163.2								
		- NB fel. dyke in centre - 10cm wide - qtz,					2 po 3py	261	163.4	164.9	1.5				
		ser-altered + py, still po as dissem + str.		45	feldy.										
		- 1/2% moly assoc with 70° qtz str.		70	qtz		tr moly - 1/2% 3po 3py	262	164.9	166.4	1.5				

DEPTH (metres) From To	GRAPHIC	DESCRIPTION	RECOVERY	STRUCTURE Angles	STRUCTURE Veins	ALTERATION	METALLIC MINERALS (%)	SAMPLE No.	FROM	TO	LENGTH m	RESULTS g/t Au
148.5- 189.8 (cont'd)		2-3cm qtz-po ± py (trasp?) str lat start, 1 at end of section with large blebs of po to 2cm across, also po dissem		80-90 30, 00	qtz ± po, py py	weak sil bio	po 4-5, 2 py, tr cp	20263	166.4	[illegible]	1.2	.10
		- more po as str but less qtz veins - 10cm zone of qtz str with po in centre of section		60°, 35	qtz ± po, py	" " "	po 4, 2 py	20264	167.6	168.9	1.3	.07
		- less po and less qtz str, still some po str		45, 80	qtz ± py	" " "	2 po, 2 py	20265	168.9	170.4	1.5	.34
		NB from 170.4 - 173.8 very minor qtz str, more py than po 4<<<1/2% qtz No Samples		45-55, 30	qtz		1 po, 2 py					
		@ 173.8 - start to increase % qtz str to 1%, also more po as dissem and in qtz str; po in 60° ⊥ CA qtz str		30-60 60 80	qtz qtz + po qtz + cal		3-4 po, 2 py	20266	173.8	175.2	1.4	<.03
		- NB 80° qtz py str cuts 45° po str, more qtz-cal str @ 80°		20, 30-60 80	qtz qtz cal		3 po, 2 py ± tr aspy?	20267	175.2	176.7	1.5	.08
		-10cm qtz str zone at 176.6 with 1% po, possible trace aspy - more po as str and as blebs in 75° qtz str.		40, 75 30	qtz ± po po + qtz-py	↓	5% po, 3 py tr moly, cp	20268	176.7	177.7	1.0	.04
		- po remaining py in qtz str.		5-10°, 55-70	qtz, py, po		4 po, 3 py	20269	177.7	179.1	1.4	<.03
		179.1 - 180.0 no qtz str. in Qtz Dior										
		@ 180.0-182.7 felsite dys (str-vns) qtz-sericite present and some 1/2% qtz str ± po in both as thin aggregate to 1cm long × 3mm wide, some dissem		70°	qtz, fel		2 po, 2 py	20270	180.0	181.4	1.4	.03
		- fel dy at end of section ~4m wide ± po		45 80 37°	fel dy		1-2 po, 2 py	20271	181.4	182.7	1.3	
		NB 182.7 - 187 - Qtz Diorite, rare qtz ± cal str					1-2 py, 1/2 po	NO SAMPLES				

HOLE No. AB0-03-01 **PAGE** 7 **of** 8

DEPTH (metres) From / To	GRAPHIC	DESCRIPTION	RECOVERY	STRUCTURE Angles	STRUCTURE Veins	ALTERATION	METALLIC MINERALS (%)	SAMPLE DATA Sample No.	FROM	TO	LENGTH m	RESULTS Au					Mo
		@ 187.7 - 188.5 - abundant fel				wchl, sil, bio											
		dy, some frags of Qtz Diorite in					1-2% po, 2py	20272	187.	188.5	1.5						
		fel ~ 50% fel in zone + with		55	fel	" " "											
		po. - often irreg contact															
		@ 188.5m - 189.8 - more broken core - near fault				" " " + w. lim	2 po 2 py	20273	188.5	189.8		.04					16
		po in qtz str ~~15°~~ ^CA +37		15, 37	qtz ± cal												
189.8 - 191.2		FAULT ZONE Hybridized Qtz Diorite -		~~R~~ 70°??	Fault	" " " s.lim	2 po 2 py	274	189.8	191.2		.07					11
		approaching Lower Contact of		70	qtz-str												
		Qtz Dior with Hfsed seds.															
		with Hfs fragments															
		core is more broken and crushed				wchl, sil, bio	3 po 2 py + tr moly?	275	191.2	191.7	0.5						14
191.2 - 194.9		@ 191.2m 5cm qtz		70°	qtz												
		str with 1% po, possible tr moly		45	fel												
		also fel dys - str with po aggregates															
		Hybridized Qtz Diorite with															
		30% fel dys + str + brecciation															
		also Xenoliths of Hfsed seds															
							1 po 1 py	276	191.7	193.2	1.5						
		- some calc-sil development in Hfsed				wchl, sil, m.bio	1 po 1 py	277	193.2	194.9	1.						
		seds w gnt, diop. ; bottom 40cm		~~xx~~ 50°	fel dy												
		fel dy															
194.9 - 197.4		~~Dominantly~~ dk grey - black py ic					1 po py	278	194.9	196.4							
		Argillite from 195.4 - 197.4		30°, 58°	Arg contacts												
		~~Main~~ Arg 195.4 - 196.4					" "	279	196.4	197.4	—	minor po with py in str					
		196.4 - 196.8 - Qtz Diorite															

DEPTH (metres) From / To	GRAPHIC	DESCRIPTION	RECOVERY	STRUCTURE Angles	STRUCTURE Veins	ALTERATION	METALLIC MINERALS (%)	SAMPLE No.	FROM	TO	LENGTH m	RESULTS					
197.4-		QTZ DIORITE with 40%				wchl wsil, bio											
202.0		Arg - w hfsed zones, some															
		fel dys - str															
		@ 199.7-201.2															
		- more qtz str ± po - very fine				wchl, msilatic	3 po 2 py	20220	199.7	201.2	1.5						
		qtz str up to 1cm wide		70, 45	qtz		tr cp										
		- 201.5 - 202.0 - Qtz Dio Bx					3 po 2 py	281	201.2	202.5	1.3						
		intrusive bx - frags of more		50°	Lcfr												
		mafic Qtz Dio - Dio. ; some po															
		str in hfs sections on either side of Bx.															
202.0		HORNFELSED SEDS.				m-s bio, ± wcs		282	202.5	204.0	1.5						
		dk gy to black arg with						283	204.0	205.5	1.5						
228.7m		calc-sil intervals few cm to															
		70cm wide - generally all						284	205.5	207	1.5						
EOH.		mod - strongly biotite						285	207	208.5	1.5						
		hornfelsed; fine po stringers; Fault - 10 cm wide		·50	Fault		3 po, 2 py	286	208.5	210.6	2.1						
		@ 208.5 - 210.6															
		- strong calc-sil zone - 40% of zone	c-sil	45-50	Calcsil zone												
		with po in c-sil ± qtz stringers		30°	qtz str with po												
		- gnt, diop, qtz, chl, bio calc sil		60°	fractures			287	215.0	216.5		po	cp bism qtz				
		± qtz str, py str; po in qtz						288	216.5	218.0	1.5						
		str and in c-sil. ± ep along str.		50	fel		- 288 No Sample										
								219.7	221.2	1.5	-	290	po str, qtz-po				
		@ 213.5-.7 fel. dy, v tr po		40°	feldy			221.2	223.7	1.5	-	291	feldy				
		@ 216.5 - 7 cm qtz-po veinlet.	1.5% qtz str.	35°	qtz vn		po, tr cp, bism	223.7	224.2	1.5	-	292	po, cp str.				
		@ 222. - 25cm fel dy with tr po		40°	fel dy			224.2	225.7	1.5	-	293	po qtz				
								225.7	227.2	1.5	-	294	py				
								227.2	228.7	1.5	-	295	po, cp				

Logged by: J. Pautler – May '03 Az: 124° Dip: −58° Downhole Pajari: 67m 129° −60; 134 127 −61; 201 127° −58 Depth 204.2m

HOLE No. AB0-03-2

DEPTH (metres) From / To	GRAPHIC	DESCRIPTION	RECOVERY	STRUCTURE Angles	STRUCTURE Veins	ALTERATION	METALLIC MINERALS (%)	SAMPLE No.	FROM	TO	LENGTH m	RESULTS
0–2.4		CASING										
2.4 –		Hornfels : biotite hornfelsed	95			w bio, ± weak calc sil,	1py 1po					
		mixed rocks with purplish bands				w lim						
14.6		of bio hfs and										
		± minor calc-sil										
		development – gnt, diop in zones		55°	calc sil banding							
		up to 20cm wide ; lim on fract										
		and in crushed rubbly zones in										
		fractures @ 4.4-4.6m		37°	dry fract zone							
		occ. chl porpho – aligned along fol'n										
		esp. btw 9.7 – 10.7m.										
		– occ qtz ± py str.		70, 40								
		NB rec. 9.1–12.2	90									
		@ 9.7m – 15cm qtz-sil zone	98	50	qtz-sil zone		2py 1-2po tr moly	20348	9.2	10.2	1.0	
		with chl ± drusy str. ± py ± tr moly										
		@ 12.0-12.3 – tim. crushed fracture zone + rubbly		50	dry fract zone	+ m lim, w ser						
		@ 12.4m 1.5cm chl-mt bordering										
		qtz vein		05°	qtz str							
		@ 12.6 – 14.5 fracture zone – crushed,		50	dry fract zone	+ m lim, w ser						
		rubbly core NB Rec 12.2 – 14.6	58									
14.6 –		Mafic dyke – dk grey-green	100			s chl, w bio						
		upper ... grey-gy ; lower										
		contact @ indistinct. –										
16.2m		@ 16.8m qtz-chl, lim str 15cm		05-30°	qtz chl str							
		– offset by RLF @ 75°CA										
		30 / 16										

HOLE No. ABO-03-2

DEPTH (metres) From / To	GRAPHIC	DESCRIPTION	RECOVERY	STRUCTURE Angles	STRUCTURE Veins	ALTERATION	METALLIC MINERALS (%)	SAMPLE No.	FROM	TO	LENGTH	RESULTS
16.0m –		~~Hfsed~~ ~~grit to cgl.~~ Hfsed coarse	100			w-m bio, w calc sil						
		grained m seds – Grit + Cgl				w chl						
		– ~~up~~ graded with grit at		70° ↑	bedding?							
16.8		top, some triangular qtz ose										
		frags, generally sandstone to										
		grit with calc sil and sts										
		frags 2-3cm size near										
		base of section										
		→ Tops is uphole										
16.8 –		Biotite Hfsed mseds with calc sil	95			w-m bio, ± w chl,	1 py ± po					
		esp near top of section; occ qtz str.				m lim						
		@ 17.1-17.2 – calc sil										
		@ 17.6-17.8 some disruption –										
22.9		faulting										
		@ 17.8-18.1 fracture zone		30°	fracts							
		10% lim fract – probably after		50-60°	banding							
		py ± qtz ± chl										
		@ 22.0m 22 lim fract. zone		35°	fract							
22.9 –		Bleached – carb altered Hfs with	98			bio, m lim w carb						
		limonic qtz-py str; broken core.		20,35,45	fract	± w ser						
		@ 22.9 – 23.0 rubbly fract. zone	98									
28.0		@ 27.3 – 27.7 " " "		60°	fract zone							
		CA →		50°	ALT'N contact							
28.0 –		Hfs – biotite hfs with some calc-				m bio, w lim, w chl	2 po tr py					
		sil pods, bands esp ± gnt ± diop		60-70	banding							
34.1		qtz str ± lim ± py + py seams;										
		minor felsite vns		10-15°	fel.							
		@ 31.4 – 3cm qtz vn, tr py		25°	qtz str.							

HOLE No. AB 03-2

DEPTH (metres) From / To	GRAPHIC	DESCRIPTION	RECOVERY	STRUCTURE Angles	STRUCTURE Veins	ALTERATION	METALLIC MINERALS (%)	SAMPLE No.	FROM	TO	LENGTH	Au ppb	RESULTS					
		NB - org sts-sdst - gut beds; tops ↑	100															
28.0-		[Hfs] - biot. hfs, banded.																
		@ 31.9-33.0 - more bkn zone	97			+ m lim. w ser ± carb altn	2py 2po	349	31.9	33.0	1.1	150						
34.1		with m lim @ 32.1 qtz vein																
		with py - 6cm		60°	qtz str													
Cont'd																		
		@ 33.0-34.1 - competent	100				1py 1po	350	33.0	34.1	1.1							
		banded bio hfs with minor		60-70	banding													
		fine qtz str 20°		20	str													
34.1-		[Hfs] - biotite hfs with w m lim, ser	80			bio, m lim m ser,												
		@ 34.1-35.1				± w clay w chl		351	34.1	35.1	1.0							
		well fract rubbly zone - w																
		granitization of hfs																
35.4																		
		@ 35.1-35.4 - less limonitic, more																
		competent bio hfsed seds ~~with~~																
		grading into Qtz Diorite																
		- minor granitized zone.																
		but contact btw Hfs and																
		Qtz Diorite quite sharp →		20°	ctc													

DEPTH (metres) From / To	GRAPHIC	DESCRIPTION	RECOVERY %	STRUCTURE Angles	STRUCTURE Veins	ALTERATION	METALLIC MINERALS (%)	SAMPLE No.	FROM	TO	LENGTH m	RESULTS
-35.4		contact zone btw m hfsed mseds and Qtz Diorite, bkn, well fractured with lim on fractures minor, rotten qtz-carb str.		20°	ctc.	w bio, m-s ser, m.lim	1py, 1po	20352	35.1	36.6	1.5	
35.4- 44.7		Qtz Diorite, m-cg, bkn, with abundant limonitic fractures	97	50	lim fract.	chl, w lim, w ser	2po, 2py	353	36.6	38.1	1.5	
		@38.1-39.6 - more bleached - well bkn core			"	" " " + w carb	2po 2py	354	38.1	39.6	1.5	
		@39.6-40.6 - 10% qtz-cal veining with py ± tr po, tr cp?; some massive py up to 1cm @39.7 - 2.5cm vuggy qtz vein with py, po, tr cp? some dark partings	93	15-25, 35 seams 25 20°	qtz-cal str. py seams qtz str		2po 3py tr cp	355	39.6	40.6	1.0	
		@40.6-42.1 - bkn for 1m, s lim on partings, minor crushed zones 40.6-41.1 and @ 42.0, rare qtz-cal str.	93			m lim, m ser, w chl	2py 1-2po	356	40.6	42.1	1.5	100
		@43.3-44.7 - more bkn section with s lim on fractures - Hfs xenolith minor qtz str ~1cm near LCTC	93	LCTC	22°	m lim w-m ser w chl w bio	2py 1-2po					
44.7- 51.0 cont		Qtz Diorite - mg - very competent no lim on fract, occasional qtz str	100 ↓	15-50°	qtz str.	w ser w chl w bio	2py 2po					

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DEPTH (metres) From / To	GRAPHIC	DESCRIPTION	RECOVERY	STRUCTURE Angles	STRUCTURE Veins	ALTERATION	METALLIC MINERALS (%)	SAMPLE No.	FROM	TO	LENGTH M	RESULTS
44.7-		@ 47.3 - 48.5 - ≐10% qtz	100	15-50°	qtz str	w/ ser wk chl bio	2py 2po 30	357	47.3	48.8	1.5	5
51.0		str. ± stwk, minor xenoliths of										
(cont)		HFs to 5 cm [Qtz str - Stwk zone]										
		→ @ 49.3m - 10cm TW wk qtz vn		20°	qtz vn		2py, tr po	358	48.8	49.8	1.0	5
		with py seams, tr po.										
		From 49.3 - 51.0 - more po as dissem.					3po 2py					
51.0-		[Qtz Diorite] mg - lim on				w ser, chl, bio, w lim	2po, 2py					
		fractures; mod bkn with occ										
57.2		rubble - crushed zones. 52.2-57.2 -	3% qtz	str/stwk zone with 05, 20-25, 35		py ± po str						
		@ 52.2-54.7 - 5% qtz str.	97			w-m ser, m lim, w chl bio	2po, 2py	359	52.2	54.7	1.5	675
		vns, more lim ic, crushed-rubbly zone										
		from 54.3-54.7m - @ 53.4 - 4cm	wk	25	qtz vn lim fract							
		qtz vein followed by 5cm lim fract										
		zone with ser; minor py + po in vein										
		~1% @ 52.8 - w lim 4cm qtz		25	qtz							
		vein										
			100									
57.2-		[Qtz Diorite] mg. Competent,		5, 15-25	qtz str	w ser, chl, bio	3po 2py					
		very rare lim on fract near										
		top; ± 1-2% qtz str, occ assoc with										
61.0		chl-ser esp along margins.										
		@ 59.8 - 25cm zone - more										
		alt'd - ser, chl - possible partially		most 20-30								
		digested HFs xenolith - 2cm qtz		30°	qtz							
		vein at top with tr py, po		70, 5 occ	qtz							
61.0-	qtz with py, po, occ strs 3%	@ 68.4m 6cm TW wk					2po, 2py	360	67.8	68.8	1.0	15
		qtz vein with tr py, po		22°	qtz							
		@ 63.1 grades coarser grained										
		@ 69.4 - 3 cm qtz vn with py, chl		45	qtz							
70.3												
				45	feldy							

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DEPTH (metres) From / To	GRAPHIC	DESCRIPTION	RECOVERY	STRUCTURE Angles	STRUCTURE Veins	ALTERATION	METALLIC MINERALS (%)	SAMPLE No.	FROM	TO	LENGTH	RESULTS					
70.3 - 74.9		Qtz Dior m-cg with 5% felsite dys. Contacts of dys often irreg, diffuse with frags of Qtz Dior 1cm - 25cm wide		30,45	fel dys	w chl bio, ser	2 py 2 po										
74.9 -		mg-cg Qtz Dior with occ qtz ± py str.					2 py 2 po										
		@ 78.1 - 79.1 10% qtz in zone with qtz vein @ 78.2 with tr moly, 15cm wide and @ 78.7 6cm qtz vein with 1% py, tr po, sericitic lower margin.		20°	qtz str	" m ser	"	2361	78.1	79.1	1.0	5					
		@ 79.1 - 80.1 - 1-2% qtz as str ± chlic margins and ± tr cp @ 79.9m				w chl bio ser	2 py, 2 po + tr cp	362	79.1	80.1	1.0	5					
		@ 82.1 - 1cm qtz - 15% py - carb vn.		45	qtz - py										sample		
		@ 83.7 - 83.7 - 90% digested mod. calc hfsed sedo with qtz - py str up to 15cm wide with ~50% py - vague contacts		55-60	qtz - py	bio, ser, carb	3 po 3 py	20363	82.7	83.7	1.0	3.62	10.7				
				40	ctcs										sample		
		@ 85.0m 1cm qtz po - py str		60	qtz py po str.												
		@ 87.6 - 88.0 - zone with fel dys up to 10cm wide.		45	fel dys												
		@ 88.8 - 5cm qtz - cal vein ± chl with lower 4cm chl - bio - magn. margin and upper 6cm sericitic margin, some digested hfs frags in interval.				m chl w bio w-m ser	4 py, 2 po	364	88.7	91.3	1.6	30					
106.2		@ 91.1 - 91.3 - vague qtz - py str with aggregates of py & 20% of str.		05°	py qtz str		10% py in interval										

cont.

DEPTH (metres) From / To	GRAPHIC	DESCRIPTION	RECOVERY	STRUCTURE Angles	STRUCTURE Veins	ALTERATION	METALLIC MINERALS (%)	SAMPLE No.	FROM	TO	LENGTH m	RESULTS
		@ 91.3 - 94.5 occ py seams		20, 45	py seams							
74.9 -		@ 94.5 - py aggregates 2cm + 1cm										
106.2												
cont'd		@ 96.5 - 1cm qtz-po-py str		65								
		@ 97.2 1cm qtz-py±str		75								
→		@ 97.5 - 106.2				+w sil	from 97.5 - 106.2					
		@ 97.3 - 98.8 - partly digested hfsed		27-30	vctc		3 po, 2 py	20365	97.3	98.8	1.5	
		sels and fract zone with ≤ 5 lrich,										
		vw lim, vuggy qtz ± py, po - str		25-30	qtz str.							
		≙ 3cm + 1cm										
		@ 98.6 - 98.8 ser alt'n surrounding										
		4mm cal-qtz str		25	cal-qtz str							
		@ 98.8 - 106.2 higher py content no seams, in str and as aggregates					3 py 2 po					
		@ 99.4 - 2cm qtz-py str cutting		20	qtz-py							
		2nd vague str with qtz + less py										
		@ 20° CA										
		@ 104.3 - .5 - 4cm, 3cm qtz-cal-py str		30	qtz-cal-py							
		@ 105.8m - py aggregates - 2cm										
106.2 -		**Qtz Diorite** m-c grained, mgy				wchl, wbio, wser ± carb	3 py, 1-2 po					
		colour with ± 5% fel dys, py dissem										
		and in str + dissem po + NB w sil to 110.9				+ w sil from	106.2 - 110.9					
		- felsite dys @ 106.2 - 15cm; 106.9 - 7cm; 107.5 - 30cm; 108.1 - 35cm		→ 45, 34, 55, 60	fel dys							
		@ 109.7 - 110.2 - ser-carb alt'd						20296	109.7	110.85	1.15	
		zone around 1cm cal-qtz str		25	cal-qtz str	+ carb, stronger ser						
		- occ. bio-chl alt'n around fract		25	fract							
		and ser-carb alt'n 1-4cm outwards									~~1.15~~	
		@ 111.6 - 111.9 - ser-carb alt zone						20297	110.85	112.0	1.15	
		around 15cm cal-qtz str		15°	cal-qtz str	+ carb, stronger ser						
		- felsite dys @ 112.2 - 5cm		30	fel dys							
116.1		→ qtz ser, tr chl, py, po										
cont ↓												

HOLE No. ABC 03-02

DEPTH (metres) From / To	GRAPHIC	DESCRIPTION	RECOVERY	STRUCTURE Angles	STRUCTURE Veins	ALTERATION	METALLIC MINERALS (%)	SAMPLE DATA Sample No.	FROM	TO	LENGTH m	RESULTS Au g/t	Ag	As	Cu		Mo
106.2		mg Qtz Diorite m gy colour with					1-2 po, 3 py										
–		5% fel dys, & py dissem + str															
116.1																	
(cont.)		@ 114.6-116.1 2% qtz stringers		30-40	qtz str ± py	w sil, chl	3 py	20248	114.6	116.1	1.5						30
		± py + py as dissem		55	feldys		tr moly										
				5°	py seams	← cut qtz str											
116.1 –		Hybrid Zone with xenoliths of				m-s chl, m bio, sil		20									
121.8		~~w in~~ hf sed msed s (≙ 60%)															
		in Qtz Diorite															
		116.1 - 117.3 7% actinolite in Hfs		75, 30	py str.	s chl, act	2 py 2 po	20249	116.1	117.3	1.2						
		~~with~~ dissem py, po; py str															
	→	@ 117.3 - 117.8 Bt - Hfs frags		70	q str		7 py, 5 po	202300	117.3	117.8	0.5						
		In Qtz Diorite - Hybrid zone		20	py str.												
		dark gy - gn ; clean															
	*	* @ 117.4 - 3 cm vn of semimass.		20, 50	sulf vn.												
		py-po + tr aspy ≈ 30% sulf															
		50% Hfs, 50% Q Dio py seams, ± minor qtz stringers; well in Hfs		30	py	s chl, w sil	5 py 3 po	202301	117.8	118.8	1.0						
				5	fract	m bio	tr cp										
		@ 119.7 - clot with qtz-cal-chl-py					4 py, 2 po, tr moly	202302	118.8	120.3	1.5	[illegible]					22
		119.9 - contact btw Hfs / Q Dio with		55	contact												
		with qtz vein at contact - cuts		15°	q. vein												
		across contact - 4 cm wide with		37	q str.												
		3% py, 2% po, + cp, moly in Hfs.															
		≙ 10% qtz in zone															

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DEPTH (metres) From / To	GRAPHIC	DESCRIPTION	RECOVERY	STRUCTURE Angles	STRUCTURE Veins	ALTERATION	METALLIC MINERALS (%)	SAMPLE No.	FROM	TO	LENGTH m	RESULTS
116.1 – 121.8		Hybrid Zone with xenoliths of w-m hfsed mseds				mchl, bio sil						
cont.												
		@ 120.9 – QDi contact with Hfs seds; qtz str in QDi ∥ to contact, some py and ep-cp clots layering in Hfs ≈ 50° minor act-trem in Hfs; ≈ 1% qtz str ± py, also py seams		10° 30, 50°	contact qtz str. banding in Hfs	mchl, bio w sil	3 po, 3 py, tr cp	303	120.3	121.8	1.5	
121.8 – 132.7		Dominantly Hfsed metaseds – but small Hybrid Zone ≈ 1% qtz str ± py – more py seams and more py in qtz str. Some po str ± tr cp, some fine brownish porphyroblasts?? alt'n after mtc porphs??		65° some 35, 45	qtz str	bio ser chl	4 py, 3 po, tr cp	304	121.8	123.3	1.5	
				NB py-po ± qtz str cut qtz (py) str ≈ ⊥ and crosscutting py-po/py str (later)				305	123.3	124.8	1.5	.01
		@ 123.3 – 124.8 weak bxiation. abundant py, po str, lesser qtz + po, py mte porphs?		35, 5°	py, po, py str qtz fract		5 py, 5 po, 2 mte	306		126.3	1.5	.01
		3% qtz str with py, po, tr cp up to 1.5 cm mte porphs; crisscrossing py-py-po str, tcp some gnt-ep clots. NB qtz str zone with po, cp @ 125 15 cm wide		35° 57°	qtz str + po + cp banding in seds	bio seds mte	3 py, 7 po, tr cp, 3 mte	307		127.8	1.5	.01
		– more mylonitized – gradational(?) – more Qtz Diorite overprint of Hfs Mseds qtz-po-py str and py; py-po seams with bio selvages		20-30, 45	qtz, "	≈35-45 – later, m bio, w chl, qtz-po, some chl	2 py, 2 po, Hemte					

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DEPTH (metres) From / To	GRAPHIC	DESCRIPTION	RECOVERY	STRUCTURE Angles	STRUCTURE Veins	ALTERATION	METALLIC MINERALS (%)	SAMPLE No.	FROM	TO	LENGTH m	Au g/t	Ag	As	Cu	Fe
				5, 20	po ± cp str											
121.0- 132.7 (cont'd)	→	127.8 - 129.7 Hybridized Bx Zone with Hfs xenoliths, frags in hybrid Qtz Diorite with abundant assimilated/partly digested Hfs		60°	qtz-po str		5 po, 1 py tr cp	308	127.8	129.7	1.9	.58	.8			
				Hfs ^	10% qtz as str.											
	→	129.7 - 130.7 - QTZ DIORITE with v. minor patches of digested Hfsed Mseds; po as dissem, less py; po in ass. qtz str		40°	qtz ± po; < ½% qtz str	w ser, bio	1 py, 2% po	309	129.7	130.7	1.0	.03				
*	→	@ 130.7 - 132.7 - Hfsed Mseds						310	130.7	131.7	1.0	18.0	31.6		506	6.9
		@ 130.9 - 45cm TW qtz vein, po cp: 15cm host rock; 10cm qtz vein po cp		50 uc; 40 lc	qtz vein; "	chl bio, sil; mod-wk qtz	10% po, 1 cp									
		Scp borders po, chl along vn margins keying in vein ∥ contact @ 40°		40, 35	"	wk qtz, less defined		311	131.7	132.7	1.0	.01	.6			
		Lower vein more diffuse, Hfs frags, 1 vn cutting main vein.		30	py seams		3 po, tr cp, 2 py									
		Hfsed mseds with qtz str ± po ± py, some po as str ± cp		45-50	qtz vein @ 132.5 - 8cm											
132.7- 133.7		Contact Zone btw. Dominantly bfo hfsed mseds with Q Di. Zone is 50% wkfsed mseds + 50% Q Dio; with 4% qtz str		25-30 55	qtz; upto 1.5cm	chl bio sil	2 py 1 po dissem.	312	132.7	133.7	1.0	<.01				
133.7- 135.5		Qtz DIORITE - No qtz str btw 133.7 and 135.5		30	rare py str		2 py dissem; minor str	313	133.7	135.2	1.5	.01				
				50°	contact											
135.5- 136.7		@ 135.5 - 136.7 :- finer grained lighter gray coloured hybrid zone of Qtz DIORITE with Digested Hfs @ 135.55 1cm qtz-po py str. qtz-chl str ± po ± po seams				m ser bio	3-4 po, 0.5-1 cp tr py	314	135.2	136.7	1.5	.37	0.8			
				50°	qtz ± po ± cpl str; ≈1% qtz str.											
136.7-		QTZ DIORITE with minor qtz stringers / feldys		30°	py str / seams	w chl, bio	3 py 1 po dissem	315	136.7	138.2	1.5	.02				

HOLE No. AB 03-2

DEPTH (metres) From / To	GRAPHIC	DESCRIPTION	RECOVERY	STRUCTURE Angles	STRUCTURE Veins	ALTERATION	METALLIC MINERALS (%)	SAMPLE No.	FROM	TO	LENGTH m	Au g/t	Ag
136.7– cont.		Qtz Diorite cont'd. @ 139-139.5 -10% py in zones as dissem and [illegible] in qtz str				chl [illegible] ser							
		@ 141.5-141.7 partly digested HFs -w calcareous											
		@ 142.6 · green chl-ser in qtz str											
		@ 143.7 1cm qtz-po-cp str } @ 144.65 2cm qtz-po str		70° / 70°	qtz str } "		2% po, 1 py	20316	143.4	144.9	1.5	<5	
		From 143.1											
		@ 146. - 15cm Thi fel dy, w ser, chlorite,		40, 30°	fel dy contacts								
		@ 147.4 2cm qtz str with py, tr moly (1% qtz str in interval)		35°	qtz str		3 po 2 py	317	147.2	148.7	1.5	<5	
		@ 147.8 - 148.2 - fg qtz diorite dy		40°	fg qtz dy		1 py						
		@ 148.7 5cm qtz str zone with po, py and @ 148.9 2cm str with qtz-py (1% qtz str in interval)		20-30° / 60° / 30°	qtz py I po / qtz-chl vn / qtz-py		3 po, 3 py	318	148.7	149.7	1.0	5	
		@ 150.9 · 2cm qtz-py-po ttr sp, moly str					3 po, 2 py tr sp moly	319	149.7	151.2	1.5	<5	
	+	@ 154.9 - 13cm banded qtz vein with py, po, ser chl		65°	qtz vn		4 po 2 py	320	154.4	155.6	1.2	4.7	8.6
		- more typical Qtz Diorite fresh some mte, v. minor digested HFs with v calc-sil not qtz str.					1% mte, 3 py tr tr. sp	20321	155.6	156.8	1.1	5	

HOLE No. AB003-2

DEPTH (metres) From / To	GRAPHIC	DESCRIPTION	RECOVERY	STRUCTURE Angles	STRUCTURE Veins	ALTERATION	METALLIC MINERALS (%)	SAMPLE No.	FROM	TO	LENGTH	RESULTS
136.7 – cont		- net qtz str, rel. freshm Qtz Diorite					2% mk, 2py 1po	322 3"	156.8	158.3	1.5	5
		- more partly digested hfsed xenoliths and 1% qtz ~~veins~~ str ± po, py		40°	qtz str		2po 2py	323	158.3	159.3	1.0	95
		- rel fresh Qtz Dior. net qtz str						324	159.3	161.3	2.0	5
SIL ALT'D ZONE →		@161.3 – 183.5 - more digested hfs patches more silicified ± ser alt'd zone - generally lighter grey in colour more qtz-cal str and po ≏ 3% qtz str		30, 40, 60°	qtz-cal str.	m sil, m ser, m bio wdd	2.5po, 2py tr sp	325	161.3	162.8	1.5	60
				50-70	qtz-cal str		4po, 2py tr moly - in qtz and along fract.	326	162.8	164.2	1.5	
		202326 - abundant more po in qtz-cal str ≏ 10% in str					tr cp with po @ 162.8 in 7cm qtz cal + py vein zone 20% py, 5% po trace					
		- few str (≏ 3%) but abundant dissem po, py, moly and moly in fract.		40°	qtz-cal str		5 po, 2-3py tr moly	20327	164.2	165.7	1.5	
*		- ≏ 3% qtz str but more po @ 166.2m - 3cm massive po vein with 2% cp, 1% mo		45°	po str.		10% po, 2py tr moly cp	20328	165.7	166.7	1.0	
		- fewer str, but moly on fract. 1 qtz-cal str, still dissem py, po					4% po, 2py tr moly	329	166.7	167.7	1.0	
		10% qtz-cal str		40° 20	qtz-cal vn - 5cm qtz-cal	5% po, cp, moly, py	5% po 2py tr moly tr cp	330	167.7	169.2	1.5	

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DEPTH (metres) From / To	GRAPHIC	DESCRIPTION	RECOVERY	STRUCTURE Angles	STRUCTURE Veins	ALTERATION	METALLIC MINERALS (%)	SAMPLE No	FROM	TO	LENGTH m	RESULTS
		3% qtz stringers		30, 80, 45	qtz-cal		3po 2py	2c331	169.2	170.2	1.0	
cont.												
	*	- 10cm qtz cal vein zone with 7% po, 5% py, 1% moly @ 170.7m		45	qtz vein/str	s sil, m ser bio	5po, 4py	332	170.2	171.7	1.5	
				30, 80, 70	qtz str.							
		@ 171.5 → slightly less sil altered - to 173										
		- less sil altered more typical mg Qtz Dior with <1/2% qtz str.				sil - w sil w ser w bio	2py, 2po	333	171.7	173.2	1.5	
		@ 173.4 - 3cm qtz str with tr moly; still po in interval; <1/2% qtz str		55	qtz str		3py, 3po tr moly	334	173.2	174.7	1.5	
				35	irreg Lctc of str							
		@ 176.1 - 1cm qtz str with po, tr cp, moly; <1/2% fine qtz str. Some chl str.		30°	qtz str		2py 3po tr cp, moly	335	174.7	176.2	1.5	
		- after 176.2 - 182.0 more py less po with py in str, fel dys ± po up to 20cm wide in section, ...		40°	fel dys		3py, 2po					
				-	qtz ± py str							
				15°	qtz-cal str							
		@ 178.1 - sericitic fracture/gouge - 25°CA; qtz str with py		70°	py seams							
				25°	ser fract							
		@ 182.0 - 183.5 few qtz str in interval; bit more po less py in str					2py 3po tr moly	336	182	183.5	1.5	
		@ 182.8 - 1cm qtz str with po, moly, py		55	qtz str							
				40°	Lctc of more sil. zone							
1cm sil		@ 184.1 - 15cm f.g. Qtz Dior dy, mag		50, 40°	f.g. Qtz Dio dy							
		184.6 - 15cm " ; qtz 20 50 ctc dy		50	"							
		184.9 - 20cm "		45°	"							
		@ 184.7 - ser fract @ 25° - w gouge		25°	ser. fract							

DEPTH (metres) From / To	GRAPHIC	DESCRIPTION	RECOVERY	STRUCTURE Angles	STRUCTURE Veins	ALTERATION	METALLIC MINERALS (%)	SAMPLE DATA Sample No.	FROM	TO	LENGTH m	RESULTS					
		@ 186.2 50cm fel dy with 2% po		40°	fel dy		1py 2 po (3)	20337	186.1	186.9	0.8						
		- Lcte / Qtz Dio 20 - some aggregates															
		of po up to 6 mm. in fel															
		-some po-chl str in Qtz Dior.		45°	po-chl												
		— from 186.2 – 189.2 – qtz str ≈ 0.5cm wide ± py, tr po		60°	qtz str		2py 2po										
		-few qtz seams with py, po		20, 35, 50	qtz seams		2py 2po	338	184.2	191.2	2.0						
		@ 191.4 and 192.1 – 1-2cm qtz str with tr cp, latter with moly					2py 2po + tr cp, moly	339	191.2	192.7	1.5						
		@ 192.75 1cm qtz str						340	192.7	194.2	1.5						
		@ 194.7 - 3cm qtz vein with po tr cp					2po, 1py tr cp	341	194.2	195.7	1.5						
		Qtz Dior. above vein						342	195.7	197.2	1.5						
*		@ 197.5 - 15cm qtz-wcal vein with 5% po, tr cp near L. Ctc. ≈ 16% qtz in section.		50°	qtz-cal vn.		4 po 2 py tr cp, moly	343	197.2	198.2	1.0	5.1	7.8				
		@ 198.15 - 1cm qtz-po vn															
→@		198.2 – 204.2 more py, but still 1cm qtz stringers ± py, po ≈ 1%					3po, 3py	3[illegible]									

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DEPTH (metres) From	To	GRAPHIC	DESCRIPTION	RECOVERY	STRUCTURE Angles	STRUCTURE Veins	ALTERATION	METALLIC MINERALS (%)	SAMPLE DATA SAMPLE No.	FROM	TO	LENGTH M	RESULTS
cont.													
			- few qtz str.		20, 50	qtz	wchl, sil, bio	2 po 2 py 20	344	198.2	199.7	1.5	
			@ 199.8 - 1.5cm qtz-chl-po, py str ± 1% qtz str.		55° 10, 30	qtz, po " + mm py	"	3 po, 2 py	345	199.7	201.2	1.5	
			- 2-1cm qtz-po str ± py 1-2cm btw 202.3 - 202.7		45	qtz		2 po, 2 py	346	201.2	202.7	1.5	
			@ 203.4 and 203.9 - 1-2cm qtz-po str. +chl.		45	qtz	V	3 po 2 py tr cp, mily	347	202.7	204.2	1.5	
to 204.2 EOH													

start May 9/03 J. Pautler

Az: — Dip -90° Depth 204.8m

HOLE No. ABO 03-3

DEPTH (metres) From / To	GRAPHIC	DESCRIPTION	RECOVERY %	STRUCTURE Angles	STRUCTURE Veins	ALTERATION	METALLIC MINERALS (%)	SAMPLE DATA Sample No.	FROM	TO	LENGTH M	RESULTS Au
0 – 3.0		CASING										
3.0 – 25.0		Hornfelsed metaseds - biotite small scale folding evident - at least 2 phases?				bio, w lim	1 py ± po, tr mte					
		hfs - hfsed ~~graded~~ silt sts, sdst, gwks, - turbidite sequence - occ. calc-sil bands with ep, gnt ± diop ± mte - eg @ 3.6m										
		occ qtz - lim ± py str										
		- bkn to 3.8m										
		@ 3.8m lim fractures		30°	fract. zone							
		@ 4.3m - bedding @ defined by grading of fine mdst to sdst -> gwk with tops uphole but could be large xenolith in Hill Stock		70° ↑	bedding tops							
		@ 7.7m - fract zone - 10cm — 3.0-5.2	91	10°	lim fractures							
		@ 9.45 - 28.0? well bkn — 5.2-8.2	87			bio, ± w-m lim						
		with rubbly sections — 8.2-9.75	100									
		@ 10.2 lim fract — 9.75-12.8	96	70°	"							
		@ 11.1 qtz strs few mm — 12.8-14.3	73%	25	qtz str lim fract							
		with lim ± py along lim fract. — 14.3-15.8	93									
		15.8-18.9	74									
		18.9-21.9	80									
		@ 14.4m dry fault zone - 20cm with bx frags, crushed zone, lim + ser		30°	FLT							
		@ 20.9 - 25cm bleached? alt'd (ser) zone + lim		35°	altn contact	bio, w-m lim + ser						
		21.9-25	90%									
		@ 22.5 - 22.8 - s. limonitic fracture zone.		60°	lim fract -> s lim			20366	22.4	22.9	0.5	75

(NB 28.0 to 92' probably could be 26.5 87' = 25.0)

HOLE No. AB0-03-3

DEPTH (metres) From / To	GRAPHIC	DESCRIPTION	RECOVERY %	STRUCTURE Angles	STRUCTURE Veins	ALTERATION	METALLIC MINERALS (%)	SAMPLE DATA Sample No.	SAMPLE DATA From	SAMPLE DATA To	SAMPLE DATA Length m	RESULTS					
25.0		Biotite Hfs - competent occ lim fracture and qtz str generally < 1cm, some lim fractures with sericitic halos				bio ±ser ±wlim	1 py, ± po										
43.3m																	
		@ 24.9															
		@ [illegible] fracture zone w lim 25.0-~~28.0~~	97														
		@ [illegible] slim fract. zone 29.4 ~~28.0~~-31.1 ~~32.6~~	97	30													
		31.1 ~~32.6~~ - 34.2 ~~35.7~~	98	55-60	fract, qstr												
				75	fract/ser												
		@ 31.5 ~~33.0~~m lim fract + Mn							30.5	31.5							
											1.0						
		@ 32.1 ~~33.6~~ m - 6cm qtz vein zone with 2-1cm qtz str with lim, ± py weath out, viggy.		60, 85	qtz str			20367			1.0	640	1.4				
		@ occ felsite str		25°	fel.												
		@ 32.8 ~~34.3~~m - 5cm lim, mn fract		30°	fract												
		@ 33.0 ~~34.5~~ ~~36.0~~m - pyic str ± w qtz		25-30, 60	qtz str py												
		@ 33.2 ~~34.7~~ m po in qtz str (4mm wide)		88	qtz-po str												
		@ 33.8 ~~35.3~~ - 36 - w lim fracture zone with py.		10°	fract												
		34.2-37.2 ~~35.7~~-38.7	100														
		@ 34.5 ~~36.0~~ - cal-qtz str with ser-carb alt'd halo		15°	str	+ ser + carb											

@ ~~36.2~~ 34.7 = slippage along 30° fract.

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DEPTH (metres) From / To	GRAPHIC	DESCRIPTION	RECOVERY %	STRUCTURE Angles	STRUCTURE Veins	ALTERATION	METALLIC MINERALS (%)	SAMPLE DATA Sample No.	FROM	TO	LENGTH m	RESULTS
		~~@35.6 - 38.6 - Qtz Vn-Stwk zone 25% qtz in zone~~ 35.1										
cont'd.		35.6 - 37.4 @ 37.1 wte qtz vein 4cm?? and str zone with py (5%) + moly - along core.		10°	qtz str	m bio, w lim wsil w chl	5 py tr moly	20368	35.6 ~~37.1~~	37.1 ~~38.6~~	1.5	5
		38.0 38.5 @ 37.1 - 40.2 ~~41.5~~	87%									
~~43.3~~		@ ~~39.5 - 40.0~~ 3-4cm wte qtz vein zone along core with 3% py + moly		10° 40°	qtz str smaller str	" " " "	3 py, tr moly	20369	37.1 ~~38.6~~	38.6 ~~40.1~~	1.5	10
		40.2 - 43.3	83%									
		- some calc sil development esp @ ~~40.7~~ 41.4 m - ep, gnt, diop		55°	banding in calc sil		1 py 1 po					
		@ ~~42~~ 40.5 0.5cm qtz-py str with tr moly - vuggy, black sooty - after py?		35	qtz str		1-2 py, 1 po, tr moly	20370	40.9	42.8	1.8	5
		@ ~~42.3~~ 40.8 1cm vuggy qtz str with py		20°	qtz str.							
		@ 41.2 - 41.6 - felsite dys with fine py, po ≤ ½% each		05, 10°	fel dys							
		@ 41.7 m - drusy qtz-py vein - sooty - py or Ag? with 1.5cm bleached halo each side - sericite		45°	qtz str	ser bio						
		@ 42.1 - 20cm fel dy cutting Hfs with vuggy qtz-carb str with tr py, po, 4cm wide		10° 65° 40°, 45°	fel dy banding in hfs qtz str	⊥ to each other						
		43.3 - 46.3	93%	75°	ctc							
43.3 - 45.2		[~~Mafic~~ dyke] - aphanitic, calcite amygdules, magnetic				s chl						
		@ 43.35 - 2cm clay seam		75°	clay seam							
		43.3 - 46.3	93									

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DEPTH (metres) From	To	GRAPHIC	DESCRIPTION	% RECOVERY	STRUCTURE Angles	STRUCTURE Veins	ALTERATION	METALLIC MINERALS (%)	SAMPLE DATA SAMPLE No.	FROM	TO	LENGTH m	RESULTS Au	RESULTS Ag
					@ CA									
45.2			Biotite Hornfelsed Metased with 5-10% feldsite dykes; up to 50cm wide ± py ± tr po ± 2% qtz str in sections with calc-sil development (grt, diop, ep) especially btw 51. and 53. m				m bio; w lim	2 py, 1 po						
54.7					20-30	fel dys								
					70	fel dys - smaller few cm								
							+ calsil							
			46.3 - 49.4	67										
			49.4 - 52.4	90										
			@ 45.9m - 0.5cm qtz-py vein		20°	qtz str								
			@ 47.5 - 2cm qtz-cal vein with <1% py, tr po		35°	"								
			@ 52.0 - 2cm qtz str + smaller qtz + qtz py str ± cal throughout		35	"								
					05, 20, 70, 75	qtz str								
			@ 54.5 - 20cm felsite dyke at L. ctc						20371	53.2	54.7	1.5	5	
				52.4 - 55.5	90									
54.7			CONTACT ZONE - granitized = (hybridized) Hfs and Cg Qtz Diorite with 3% qtz as stringers @ Qtz Diorite				m-s bio, m-s sil, w chl, w calcsil ± ser							
57.1			@ 54.7 - 55.5 - dominantly Hybrid Hfs - strongly granitized →				mbio, msil, mchl, m ser	2-3 py, 5 po ± cp	20372	54.7	55.5	0.8	4.52	5.8
(cont'd)			@ 54.7 - felsic ctc with Hybrid Hfs											
			5cm of chloritic gouge with 5% po, 3 py @ ctc		50	~30° to ctc	mchl mbio							
			@ 54.9 - 2cm mas py vn as ground conc. qtz-po vn - 3cm wide		30°									
			@ 55.0 - with 50% po		30°	qtz-po str								
				55.5 - 58.5	100%									
			@ 55.5 - 56.1 - dominantly Qtz Diorite, c.g. with 5% qtz as stringers > poorly fractured, not equigranular				m sil mchl ± w-s ser	3 py, 2 py, tr cp	20373	55.5	56.1	0.6	20	
			@ 55.5 - 10cm qtz vn with		70°	qtz vn	with chlorite and hbl up to 1cm - magnetite							

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DEPTH (metres) From	To	GRAPHIC	DESCRIPTION	RECOVERY	STRUCTURE Angles	STRUCTURE Veins	ALTERATION	METALLIC MINERALS (%)	SAMPLE DATA SAMPLE No:	FROM	TO	LENGTH m	RESULTS
54.7-			3% po, py, trace cp and 1cm qtz str. with 2% po; followed by 10 cm sericite altered selvage - (top of qtz vein is covered) - 2-3% po in sericitic selvage with tr cp	100%	30°	qtz str.							
(contd)					30°	sericitic selvage							
- 57.1			@ 56.1 - ctc. btw Qtz Diorite and Hfs - ±		45°	L ctc							
			@ 56.1 - 57.1 sil Hfs with w/ calc-sil development in centre @ 56.2 - 25cm felsy with 2cm + 4cm qtz veins up to 10% po, tr cp ± 3% po disscm in felsite		70°	calc sil banding	m-s bio, s sil + w calc-sil	2-3 po - dissem with 8 po, 1 py tr cp total	20374	56.1	57.1	1.0	30
					55°	felsy	+ s ser. in fel						
					35°	qtz vns							
			@ 56.6 1cm qtz-po str in Hfs		20	qtz str							
			L ctc - 5cm graditization at L ctc but fairly sharp ctc but not chilled.		45°	L. ctc							
57.1-			Qtz DIORITE m.g, generally equigranular with 2-3% dissem py and 1 po with 3% felsite as dyke, str.				m chl, ± w bio	2 py 1 po tr mte	375	57.1	58.6	1.5	10
63.4			@ 58.9 - 20cm felsy with 3% mte as dissem and aggregates along margins, also chl along margins.		20°	felsy.							

HOLE No. AB 03-3

DEPTH (metres) From / To	GRAPHIC	DESCRIPTION	RECOVERY	STRUCTURE Angles	STRUCTURE Veins	ALTERATION	METALLIC MINERALS (%)	SAMPLE No.	FROM	TO	LENGTH m	Au		As			
63.4 – 69.7		Qtz DIORITE with 10% felsite dykes and 5% hybrid Hfs frags; increased po especially in qtz ± cal veins and in fel dys; minor py on fract; 2% dissem po in section	100			m bio, chl, ser w sil	5 po 1 py 1 mte	26376	63.4	64.4	1.0	5					
		@ 63.5 – 2cm qtz vein with 5% po + tr cp; drusy, sericite altered margins esp. lower margin; 1% qtz str in interval		35	qtz str												
							5 po 2 py 1 mte	377	64.4	65.4	1.0	10					
		@ 64.9 – 65.2 – qtz-w cal str po ± py + chl ≤ 0.5 cm wide; 5% qtz str in interval		10, 25-30	qtz ± po str												
				40	qtz ± po + py												
		~~@ 65.9 – 10cm hybrid Hfs~~					8-10 po, 1 py, 2 mte, tr cp	378	65.4	66.4	1.0	204	2.6	455			
		@ 66.2m – 25cm felsite dy with minor qtz str with po and po str, some mte in centre of po aggregates, tr cp.		70°	∠ ctc	stronger ser											
				30°	L. ctc												
				70, 05-20	qtz str												
				30, 45	qtz, po str												
		NB gradual increase in py		70	po str												
		@ 66.4 – 67.9 – Qtz DIORITE, mg, case qtz + cal str, py on fract					2 py 2 po	379	66.4	67.9	1.5	10					
		@ 67.9 – 69.7 – ≈ 3-4% qtz str but higher py content; more qtz py str; some qtz-po, ± tr moly po on fractures esp. 20-30° ∠CA		20-30	qtz str ± po, py		3 py, 2 po tr moly	380	67.9	69.4	1.5	5					
				75	qtz ± po str												
69.7 (cont'd) – 92.3		Qtz DIORITE with minor fel dys and occ. hybrid Hfs frag, 2% qtz str < 1cm in width ± py		20-30, 5, 45	qtz str	m chl, w bio, w ser	2 po, 3 py, 1 mte										
		@ 69.8 – 15cm fel dy		20	fel dy												
		(NB Hfsed frags are calc-sil alt'd with more dissem po.)	↓														

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DEPTH (metres) From	To	GRAPHIC	DESCRIPTION	RECOVERY	STRUCTURE Angles	STRUCTURE Veins	ALTERATION	METALLIC MINERALS (%)	SAMPLE DATA SAMPLE No.	FROM	TO	LENGTH m	RESULTS Au	Ag
69.7			@ 73.4 - 4cm qtz vein with 3% mte		35	qtz-mk tr								
92.3 (cont'd)			@ 79.3 - 2 - 1cm qtz-mk stringers					6 po, 4py tr cp	20381	79.2	80.2	1.0	2.3	10.4
			@ 79.8 10cm grooved core with 2cm qtz pebble with po, tr cp and 2cm piece of core with massive - py, po, cp ≈ 60% po, 30 py, 3 cp										30 samples	
			@ 80.9 - 30cm calc-ser alt'd Hfs with higher po content					3 po 2 py						
			@ 88.6 - fracture with tr cp, moly, po within ser/calc Hfs frag. 4cm wide.										sample	
									20382	91.9	92.9	1.0	2.98	55
92.3 cont'd			Qtz Diorite with more xenoliths of Hfs (commonly calc and ser. altered)				mbio, mchl, w-s ser.	3-4 po 1 py, tr cp						
103.7			@ 92.6 - 4cm qtz-po str with tr cp ≈ 30% po within 10cm calc, ser alt'd zone.		70°	qtz-po								
			@ 93.8 m - 5cm qtz + po str 1% py, 2 po, tr sphalerite (sp) within 20 cm calc ser altered zone (Hfs xenoliths)		75	qtz-po			20383	92.9	93.9	1.0	1.8	5.8
													sample	
			@ 93.9 - 103.3 m Qtz Diop <1% qtz str, rare xenoliths					2 py 1 po					2.39	/2.0

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DEPTH (metres) From / To	GRAPHIC	DESCRIPTION	RECOVERY	STRUCTURE Angles	STRUCTURE Veins	ALTERATION	METALLIC MINERALS (%)	SAMPLE No	FROM	TO	LENGTH m	Au	Ag
92.3 - 103.7 (cont'd)		@ 99.35 - 3cm qtz po vein with 2% po						203384	99.3	100.8	1.5	20	
		@ 100.8 - 102.3 Qtz Diorite					1py, 1po	203385	100.8	102.3	1.5	15	
~~103.7~~ 102.9m	*	@ 102.3 - 103.0 - mostly hybrid Hfs in Qtz Diorite, with 3 po, 1py dissem.					6po, 3py, tr cp, moly, bism	386	102.3	103.3	1.0	8.6	18.7
~~103.7~~		@ 102.7 - 18cm qtz-5po-4py vein, tr cp, tr bism.		75-85	qtz vn								
		@ 103.0 - 10~~8~~.7 grades less hybrid Hfs in zone						387	103.3	104.3	1.0	15	
								388	No sample				
103.7 - 110.5		Qtz Diorite, minor fel vns and qtz stringers approx. 3% qtz ± calcite ± as stringers ± py ± fine chlorite and occasional ser-fuchsite; more qtz str from 107.1m - 110.5		15, 30-40	qtz str. ± py	mchl	2py 1po; 2py, <1/2 po	389	109.0	110.5	1.5		
110.5 - 119.7 (cont'd)		Hybrid ~~Zone~~ Qtz Diorite - qtz diorite with xenoliths of hornfelsed metaseds ± 5% qtz ± in stringers ± calcite ± minor po ± trace cp (approx 25-30% hfs ± bx		30,50,70	qtz str	mchl ± wbio, wser	4po, 2py ± mo, cp						
		110.5 - 111.5 @ 110.6 - 2cm qtz-calcite-py-minor po-tr cp stringer within 10cm sericitic halo; disruption of qtz stringers (L + D) within zone. Qtz str faulted along 45° structure weak brecciation.		70°	qtz str	mchl, mbio, mser	2py, 2po	203390	110.5	111.5	1.0		

DEPTH (metres) From / To	GRAPHIC	DESCRIPTION	RECOVERY	STRUCTURE Angles °∠CA	STRUCTURE Veins	ALTERATION	METALLIC MINERALS (%)	SAMPLE No.	FROM	TO	LENGTH (m)	Au	Ag
110.5 – 119.? cont'd		111.5 - 112.8m - ~~intrusive~~ heterogeneous with 60cm hfs xenolith in centre with 2cm qtz-cal-py str @ 30°CA; Qtz Diorite also heterogeneous with locally coarse phenos of hornblende up to 1.5cm long, other qtz str @ 20°		20-30°	qtz str	mchl m bio w ser	2py, 2po	20391	111.5	112.8	1.3		
		112.8 - 114.5 - heterogeneous with 50% of section with coarse hornblende phenos up to 1.5cm long. - 1% qtz str @ 05-20° Some brecciation and hybridization at bottom of zone. 30° discrupted banding? terminates against 050° qtz str at edge of f.g. qtz-diorite.		05-20, 45-50	qtz str	mchl w bio w ser	3py, 2po	392	112.8	114.5	1.7		
	*	114.5 - 115.7 - 20cm f.g. qtz diorite dyke bordered by qtz stringers @ 50°∠CA followed by c.g. qtz diorite, strongly hybridized btw 115.1 - 115.6 with highly digested hfs xenolith with 10% po, trace cp. ± ctcs @ 20°∠CA - qtz stringers with py, minor cal ± chl @ 05-15 and 50°				" " "	6po, 3py	393	114.5	115.7	1.2		
		115.7 - 117 - weakly hybridized qtz diorite ~~with~~ c.g. with some darker zones of digested hfs ~~and 2cm fg dy~~; minor fine qtz str ± py		05-14, 40	qtz str	m chl, w bio	2py 2po	20394	115.7	117	1.3		

HOLE No. ABO 03-3 PAGE 10 of 16

DEPTH (metres) From	To	GRAPHIC	DESCRIPTION	RECOVERY	STRUCTURE Angles	STRUCTURE Veins	ALTERATION	METALLIC MINERALS (%)	SAMPLE DATA SAMPLE No.	FROM	TO	LENGTH m	RESULTS Au	Ag
110.5	119.1 (contd)		117-118.2 - cg Qtz Diorite with 2cm fel dy @ 05-10° CA, trace qtz stringers, some py on fract. @ 05-15° CA 118.2-119.2 - 1.0m of dominantly hfsed xenolithic, hybridized, partly digested - qtz-chl-py ± cal str @ 05-15° CA as structures offset (LHD) by 15° structures) - more Qtz Diorite zones up to 15cm wide @ ± 30° CA with ± sub11 qtz str ± cal.				mchl±wser	4py, 2po	395	117	118.2	1.2		
							wchl, mbiu wser	3py 2po	396	118.2	119.2	1.0		
					30°	CTC			397	119.2	121	1.8		
119.1	121.0		felsite dyke - fg. with 10% mafics (must biu, some hbl) minor 1cm hfs? xenolithe @ 1% qtz-chl-py ± tr cal ao stringers		35°	qtz str								
					15°	CTC								
121.0	150.0 (contd)		Dominantly Hornfels with some hybridized zones and narrow intervals of Qtz Diorite - minor fel dys and average 3% qtz stringers @ 121-121.8 - Qtz Dio - Hfs hybrid with 2cm fel dy @ 30° CA with fine qtz str @ margin and sub11 py stringers @ 121.8-122.5 - Hfs - with many zones of Qtz Diorite and 3% qtz-py ± chl ± cal stringers 15° to 20° CA str offset 45-50° str											
					30°	fel dy		4py 2po	398	121	122.5	1.5		
					15-20 45-50	qtz str - later "								

HOLE No. AB03-3 PAGE 11 of 16

DEPTH (metres) From	To	GRAPHIC	DESCRIPTION	RECOVERY	STRUCTURE Angles	STRUCTURE Veins	ALTERATION	METALLIC MINERALS (%)	SAMPLE DATA SAMPLE No.	FROM	TO	LENGTH m	RESULTS Au	Ag
121.0		*	@ 122.5-124.1 - Hfs with minor calc silicate (amt, disp) developed over local Qtz Diorite; some hybridization (assim) of Hfs gtz-wool stringers with py, po ± tr cp. NB py dom str changes to po dom after disruption and 05° str offsets 40° str. (see @ 122.9m)											
150.					40°	cs banding								
Cont'd					05°, 40°	gtz-po str.								
					62°	*py-gtz-dol str.								
			-10cm of c.g QDi at bottom with local xenoliths		10°	CTC								
			124.1-125.6 - 40cm of felsic cg QDi followed by Hfs with local minor calc silicate				mbiw mdl wser	3py 4po tr	20400	124.1	125.6	1.5	10	
			↳ minor gtz str stwk at lower ctc		10-15	fine gtz str stwk	" " "							
			↳ minor gtz str with chl-py		80°	gtz-chl-py								
			125.6-127.1 - Hfs, some hybridization, minor py and/or po str.		05-10, 40	py, tr po str.		3py, 3po	401	125.6	127.1	1.5	5	
					45°	banding in Hfs								
			127.1-128.6 - more gtz-py-chl ± moly stringers ± 3%.		05-10, 40°	gtz str, gtz-py-moly		3py, 2po, ½ moly	402	127.1	128.6	1.5	5	
		*	128.6-129.6 Hfs with po stringers and gtz-py ± po stringers and @ 128.9m - 4cm gtz, wool str. with py, po, cp @ 80° to CA		05-10, 70	po str.		3py, 4po, tr cp	403	128.6	129.6	1.0	2.68	7.3
					80	gtz str								

HOLE No. ABO 03-3 PAGE 12 of ___

DEPTH (metres) From	To	GRAPHIC	DESCRIPTION	RECOVERY	STRUCTURE Angles	STRUCTURE Veins	ALTERATION	METALLIC MINERALS (%)	SAMPLE DATA SAMPLE No.	FROM	TO	LENGTH m	RESULTS Au	Ag
121-	150.0 (cont'd)		129.6 - 131.1 Hfs ± hybridized with dissem po and po str, py stc minor calc-sil (grt-diop-ep)-sum po framboids??		30°	banding	mchl mbio wsen	6 po, 2 py	30404	129.6	131.1	1.5	5	
					15, 30	py, po str								
			131.1 - 132.6 - graded more hybridized with QDi zone, more assimilation, brecciation. qtz ± py ± po and py and po stringers and mte. stc		10-15, 30	qtz-py-po str	" " "	6 po, 3 py 3 mte	405	131.1	1326	1.5	10	
					30-35	banding								
			132.6 - 133.1 dominantly Quartz Diorite - Hfs hybrid zone - more strongly digested Hfs 1% qtz str		05-15 70	qtz str fel "	mchl wbio wsen	4 py, 2 po	406	1326	133.1	0.5	10	
			133.1 - 137.9 Hornfels with minor calc silicate development, 1% qtz stringers ± chl ± py, some py stringers with felsite dy from 134.5 - 134.9 m with trace moly, chl					2 py 2 po	No Sample					
					30°	fel dy								
			- graded more hybridized downhole especially from 136.0 m											
			136.0 - 137.9 - hybridized Hfs but not disrupted 1% qtz str ± py ± tr po ± mte and 1% fel dy str.		05-15 15 gradational	qtz str fel str CTC	mchl wbio msen	2 py 2 po	407	136.4	137.9	1.5	55	
			@ 137.9 - 139.7 c.g Qtz Diorite with <1% qtz str ± py ± chl sharp Lower Cte ? but irregular		05-15 60°	qtz str CTC	mchl	3 py 1 po	No Sample					

HOLE No. ABO 03-3 PAGE 13 of ___

DEPTH (metres) From	To	GRAPHIC	DESCRIPTION	RECOVERY	STRUCTURE Angles	STRUCTURE Veins	ALTERATION	METALLIC MINERALS (%)	SAMPLE DATA SAMPLE No.	FROM	TO	LENGTH m	RESULTS Au	RESULTS Ag
121-			139.7 - 141.0 - Hfs, weakly hybridized at margins @ 1% qtz str ± chl on margins and occasional very minor py, po		50°	banding	w-m bio ± m ser, wchl	1 po 3 py		NO	SAMPLE			
150.0 (cont'd)					20, 50, 05	qtz str								
					70	qtz-po str								
			141 - 143.0 - Hfs with 1% qtz str ± po and more dissem po @ 141.7 - 20 cm massive sulphide zone and @ 142.6 - 20cm " " at contact with QDi		40, 70	qtz-po str		4 po 1 py	425	141	143	2.0	20	
					05-15	qtz str								
			@ 143 - 144.5 - mg QDi with sericite alt'd fel dy from 143.3 to 143.9, 3% dissem po		20	fel dy	wchl ± m ser	3 py 2 po	426	143	144.5	1.5	40	
					30-40	qtz str								
			@ 144.5 - 146.1 mg QDi; very minor py str and qtz str 2-3% dissem py		15	py str		3 py	408	144.5	146.1	1.5	10	
					20	qtz str								
			* 146.1 - 147.6 Hfs with qtz vein from 146.6 - 146.9m - m ser alt'n above vein and more chl alt'n below vein more dissem po throughout - NB as py occurs along ftw margin of vein; po > py stringers		80	qtz vein	w-m chl, w-m ser, wb 0	1 po, 3 py tr cp, a spy	409	146.1	147.6	1.5	142	29.5
					05-20 30-45	py, po str	m chl w ser ± wb							
			147.6 - 149.0 qtz Diorite - Hybrid Hfs zone with qtz str ± po ± tr cp - up to 2 cm wide		20, 40, 75, 60	qtz ± po str		3 po, 3 py tr cp	410	147.6	149.0	1.4	40	

HOLE No. ABO 03-3

DEPTH (metres) From / To	GRAPHIC	DESCRIPTION	RECOVERY	STRUCTURE Angles	STRUCTURE Veins	ALTERATION	METALLIC MINERALS (%)	SAMPLE DATA Sample No.	FROM	TO	LENGTH m	RESULTS Au	Ag
~~121~~ - ~~150.0~~ (cont'd)		149 - 150. hybrid Hfs. — weakly granitized hfs with zones of Qtz Diorite up to 10cm; some qtz str, ≤1%, ± py, and py seams		70° / 25-30 / ~~STC~~ 50-90	qtz str / py str / CTC	~~wd~~ chl, w bio	2py 2po	20411	149	150	1.0	25	
150. - 204.8		Quartz Diorite with 5-10% felsite dykes and 1% qtz stringers generally m.grained. ± w-m ser esp. in fel.		05-30, 20-30 / 45-55	feldys / " "	w chl. ± w ser	2py 1po 2-3 mte.						
		@ 150 - 151.5 - generally c.g margin ~~of~~ of Qtz Diorite with ≤2% qtz str ± py, chl tr moly; some brecciation at contact for 40cm.		15-20	qtz str	w chl ± w ser	2py, 2po tr moly	412	150	151.5	1.5	20	
		@ 151.5 - 153.5 m.g. Qtz Diorite with ≤1% qtz str ± mte ± py and ≤1% fel str.		20	qtz str	w chl	2py 1po 2 mte	NO SAMPLE					
		@ 153.5 - 155. mg Qtz Dior. with 30% fel dys with ≤1% qtz str ± po - esp in hw and in upper part of fel.		30° / 75-80°	fel dys / qtz-post	w chl w ser	2py 2po tr cp	413	153.5	155.	1.5	25	
		@ 155.3 - 156.2 - fg dy - GDi with up to 2cm xenoliths of hybrid Hfs and mg QDi, minor qtz-chl-py str		12° / 50	dy / qtz str		1% py, 1 mte	NO SAMPLE					

HOLE No. ABO 03-3 PAGE 15 of ___

DEPTH (metres) From	To	GRAPHIC	DESCRIPTION	RECOVERY	STRUCTURE Angles	STRUCTURE Veins	ALTERATION	METALLIC MINERALS (%)	SAMPLE DATA SAMPLE No.	FROM	TO	LENGTH m	RESULTS g/t Au	RESULTS g/t Ag
150			@ 159.6 - 163.9 - Qtz Diorite mg. with 40% fel dys with w-m ser alt'n ± chl along margins	±	<1% qtz str ± chl ± py		wchl ± w-m ser	2 po 1 py						
cont'd			@ 159.6 - 161.3 - more pb as diffuse and 1% qtz str ± po		30, 85	qtz str	wchl, m ser	4 po, 1 py trop	427	159.6	161.3	1.7	35	
			@ - 163.9 - 165.7 = More qtz-chl-py stringers		30	qtz str - stwk			NO SAMPLE					
			@ 163.9 - 167 Qtz Diorite mg with 5-10% fel dys					1 py, 1 po, 1 mte	"		"			
			@ 167 - 168 - mg Qtz Diorite with 20% fel dys with w-m ser alt'n and ± vwbio. alt'n.		45, 05	fel dys	wchl ± w-m ser ± wbio	1 py	4/4	167	168	1.0	3.05	15.4
			@ 168 - 168.5 - 3cm qtz carb str					1 py, 2 po	415	168	168.5	0.5	195	
			@ 168 and 10cm qtz str with po (1%) @ 168.3m in mg Qtz Dio		70, 85°	qtz vein								
			168.5 - 169.5 - mg Qtz Dior, minor fel str + qtz str					1 py, 1 mte, 1 po	416	168.5	169.5	1.0	20	
			@ 171.5 - qtz - py stringers - 1cm @ lower margin of fel dy		10°	qtz str								
			@ 172.5 - 173.8 - 3% moly within 1cm py - chl in fracture @ 10° CA and as fine mm rosettes in margins of sericite fel dy - mte noted in fel dy		60°	py-moly str								
			from 175.8 - 181.3 - slightly chlor qtz - chl ± w-m ser ± py str with mte @ 180.0 m		20°	qtz str + mte			NO SAMPLE					
					20-35	" "								
			@ 183.9 - 185.4 mg Qtz Diorite with 2.5cm qtz carb - po (2%) str @ 184.1m, other minor qtz - chl str with 5cm sericitic halo.		85	qtz str	wchl ± w-m ser	1 py 1 po	417	183.9	185.4	1.5	20	

DEPTH (metres) From / To	GRAPHIC	DESCRIPTION	RECOVERY	STRUCTURE Angles	STRUCTURE Veins	ALTERATION	METALLIC MINERALS (%)	SAMPLE No	FROM	TO	LENGTH m	RESULTS
150 – 204.8 EOH		@ 185.6 3cm qtz-w-cal str with aspy - bism? hosted by 10cm ser-cal altered zone and @ 186.0 - 2cm qtz-wol-po str hosted by ser alt'd fel dy, also 10-15° to CA 1cm-qtz-po str @ 186.0m - along ctc of fel dy. ; other po str in fel @ 70° CA		80-85 10 10 70	qtz + aspy qtz-po fel dy po str.	wdl ± w-m ser str ± w carb	3 po, 1 py tr aspy, bis	20418	185.4	186.4	1.0	105
		@ 186.4 - 187.6m - fel dy to 186.5m carb-ser alt'd lower margin of dy @ 187.4 - 3cm qtz-wol-py-po str @ 75° CA		75°	qtz str	" as above " "	4 po, 1 py	419	186.4	187.6	1.2	680
		187.6 - 189.1 - mg Qtz DioR with 0.5cm qtz-po str @ 188.5m within 10cm ser-carb alt'd zone.		80	qtz str	as above	2 po 2 py	420	187.6	189.1	1.5	20
		@ 192.6m - 194.1m ≅ 3% qtz str ± mte-chl ± po, cp up to 2cm		10,45,25 30	qtz ± mte-chl qtz-po	wdl w ser	2 po, 1 py	421	192.6	194.1	1.5	15
		@ 200.3 - 201.8 - mg Qtz-DioR with 30% qtz-cal-ser-wdl dys @ 15-20° to CA ± chl-ser rosettes				" "	1 py 2 po	422	200.3	201.8	1.5	10
	0.5 to CA	@ 201.8 - 203.3 - @ 201.8 (202.8) - 2.5cm qtz-cal str with moly rosettes cuts 75° to CA 1cm qtz str with 3% po, tr cp ; also 30° to CA qtz str with po ± 1cm wide which cuts 05° qtz-moly str.		05 30, 75	qtz str + moly qtz-po str	wdl w-m ser, w biot	2 po, 1 py, tr moly, tr cp	423	201.8	203.3	1.5	25
		@ 204.7m - 4cm qtz-cal-po-tr cp str. @ 203.3 - 204.8		40	qtz-po str	" " "	2 po, 1 py, tr cp	424	203.3	204.8	1.5	5

EOH

DIAMOND DRILL LOG

HOLE No. AB0 03-4

COMPANY NCR
PROJECT ABO GOLD
PROPERTY

NTS		DATE: Collared		DEPTH	DIP	AZ.	LENGTH:	
CLAIM		Completed			-90		DEPTH of OVB.:	
ELEVATION		Logged					CASING REMAINING:	
GRID COORD							WATERLINE LENGTH:	
NORTHING		LOGGED BY:	J. Poutler				PROBLEMS:	
EASTING		CORE SIZE:	NQ					

DEPTH (metres) From - To	GRAPHIC	DESCRIPTION	RECOVERY	STRUCTURE Angles	STRUCTURE Veins	ALTERATION	METALLIC MINERALS (%)	SAMPLE No.	FROM	TO	LENGTH	RESULTS
0 - 1.2		CASING										
1.2 - 15.5		HYBRID QUARTZ DIORITE generally medium grained quartz diorite but locally finer grained; moderately to highly oxidized; poorly ~~[illegible]~~ differentiated with darker more mafic zones and felsic stringers; about 5% qtz as up to 1cm str and vein; assimilated xenoliths of hornfelsed sediments with granitized hfs from 8.5 - 9.7	85%		~~qtz~~	w-m chl, m-s lim w ser	2py, 1po, ~~<1 moly~~					
		@ 8.2 - 9.4 - start to get qtz stringers 05 and 30° CA up to 1cm ± 5% qtz ± vuggy ~~some qtz stockworking~~		05, 30	qtz str		3py 1po <1 moly	204428	8.2	9.4	1.2	
		@ 9.4 - 10.8 less qtz but some stockworking						204429	9.4	10.8	1.4	
		@ 12.2 - 1cm qtz, tr py str @ 75° CA		75	" "							
		@ 13.1 - 15.5 ~~very~~ poor recovery, with pebbles of qtz diorite.						204430	13.1	15.5	2.4	
		@ 15.4 - 10cm qtz vein, wk 45		75 - ?	qtz vein							

HOLE No. ABO03-4 PAGE 2 of ___

DEPTH (metres) From	To	GRAPHIC	DESCRIPTION	RECOVERY	STRUCTURE Angles	STRUCTURE Veins	ALTERATION	METALLIC MINERALS (%)	SAMPLE DATA SAMPLE No.	FROM	TO	LENGTH	RESULTS
15.5	24.1		Hornfels hornfelsed metasedimentary rocks	98	40-45	banding in hfs	Bio, w chl, w lim ± w ser						
			@ 19.7-21.5 - granitized hornfels - contact of hfs with grey hfs also core axis from 19.7-20.2m - ; generally bleached		05-10	clc	w ser w bio	3py 2po	2431	21.8	22.8	1.0	
			@ 21.-22.6m qtz stg and po stg zone with 5% qtz hfs is bleached. - sil?		50,65	qtz stg po stg	w ser, bleached	3po, 3py					
			@ 22.0-24.1 less hornfelsed and darker coloured & black but grades less dark ↓										
				4	clc	25°							
24.1	27.1		~~Qtz~~ Mafic dyke ; green colour										
					clc - fracture	45							
27.1	31.8		Qtz Diorite weakly bleached	99			w ser, bleached	1py 1po					
31.8	33.6		Hfs - with minor Qtz Diorite	98				2po 1py					
			@ 32.1-32.4 - highly fract with lim on fractures		20	fract							

HOLE No. ABD 03-4 PAGE 3 of ___

DEPTH (metres) From	To	GRAPHIC	DESCRIPTION	RECOVERY	STRUCTURE Angles	STRUCTURE Veins	ALTERATION	METALLIC MINERALS (%)	SAMPLE DATA SAMPLE No.	FROM	TO	LENGTH	RESULTS
33.6	36.4		Qtz Diorite with 10% xenoliths of Hfs medium grained, fairly fresh				w Ser, vw bleached	1 py 1 po					
					LCtc	30°							
36.4	40.1		Hfs ± Hornfels		25			5 po 2 py					
			- 2% qtz veins py, cp with po		25	qtz str		7 po 2 py <1 cp	2432	36.4	37.8	1.4	
			- 2% qtz		25-30	qtz str po str.		5 po, 2 py	33	37.8	39.2 from	1.4	
			- 5% qtz str.		20,05	qtz str.		3 po 1 py	34	39.2	40.1	0.9	
40.1	43.6		Qtz Diorite medium grained, more py as disseminated occasional qtz str - vague borders occasional xenoliths esp from 42.6 - 43.6		20-30	qtz str.	w Ser	3 po 1 py					

APPENDIX VII

Statement of Expenditures

Wages:	Geologists:		
	J. Pautler	17 days @ 450.00/day	$ 7,650.00
	J.W. Pickett	5 days @ 450.00/day	2,250.00
	G.J. Walton	4 days @ 450.00/day	1,800.00
	D. Kuran	2 days @ 450.00/day	900.00
	Excavator operator and prospector:		
	G. Polischuk	28 days @ 300.00/day	8,400.00
		Total: 56 man-days	**$ 21,000.00**
Mob/Demob:			**5,448.88**
Diamond Drilling:	Standard Drilling and Engineering Ltd.		**48,672.49**
Core Handling:	(core splitting, labeling, core boxes)		**4,934.34**
Geochemistry:	232 core	Au, ICP	
	69 rocks	Au, ICP	
	6 soils	Au, ICP	
	Shipping		
		Total:	**6,702.82**
Equipment Rental and Repair:	(trucks, ATVs, excavator, cat, core splitter)		**32,300.00**
Reclamation:			**3,277.00**
Meals and Accommodation:	(including drillers, excavator operator)		**12,250.00**
Field Supplies:	(flagging, thread, sample bags)		**1,420.00**
Fuel:			**2,316.92**
Maps, Prints & Copies:			**500.00**
Report & Drafting:			**12,000.00**
GRAND TOTAL:			**150,822.45**
Total amount applied for assessment			**$ 112,500.00**

APPENDIX VIII

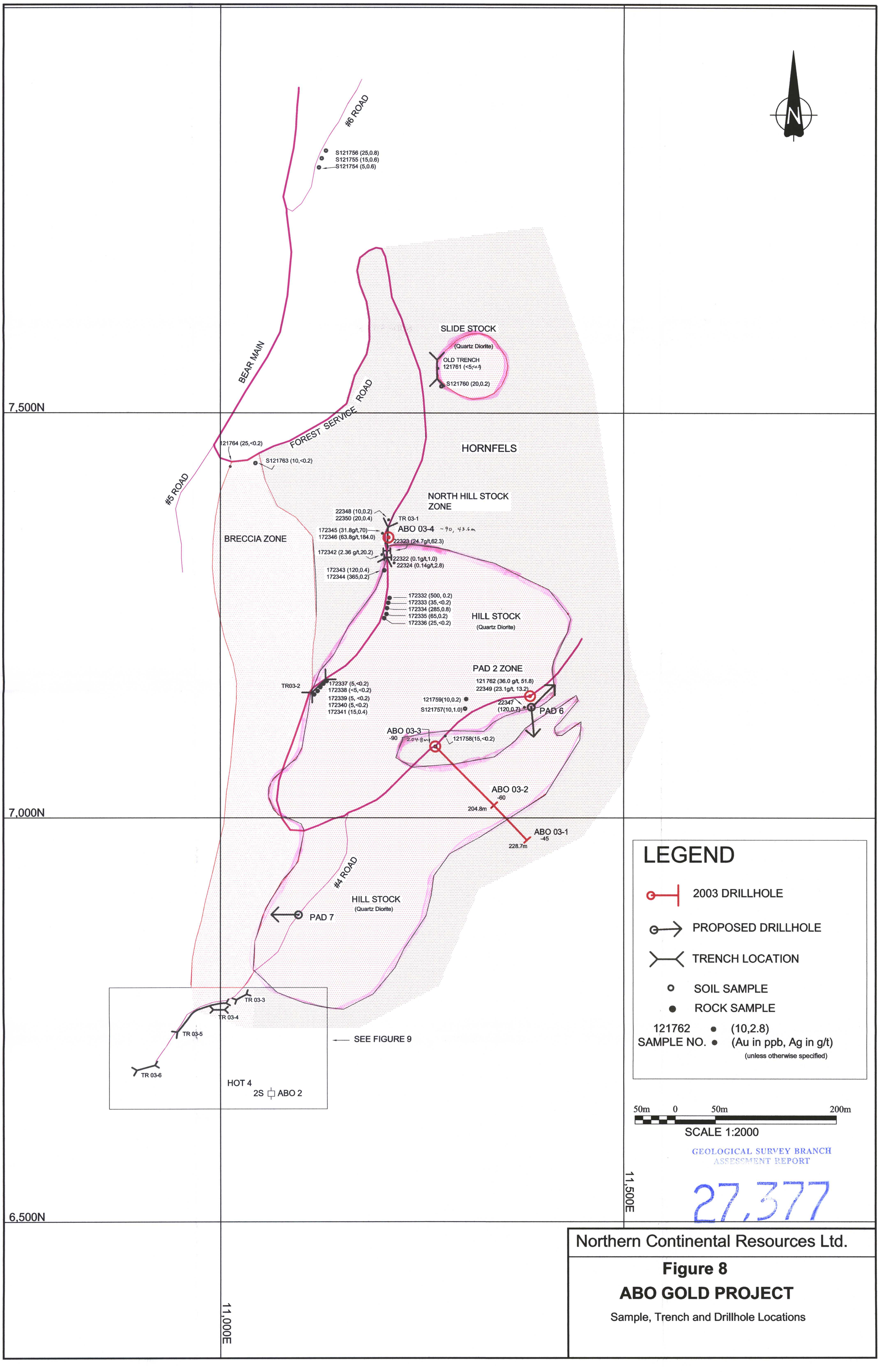
STATEMENT OF QUALIFICATION

I, Jean Marie Pautler, P. Geo., do hereby certify that:

1) I have a residence and business address at 103-108 Elliott St, Whitehorse, Yukon, Y1A 6C4.
2) I am a graduate of Laurentian University, Sudbury, Ontario with an Honours B.Sc. degree in geology (May, 1980).
3) I have been a registered member in good standing of the Association of Professional Engineers and Geoscientists of British Columbia since 1992.
4) I have practiced my profession as a geologist since 1980 and have more than twenty years of experience in the Canadian Cordillera.
5) I am a "Qualified Person" in the context of, and have read and understand National Instrument 43-101.
6) I am the author of this report.
7) I supervised and implemented the 2003 exploration program on the Abo Gold Project, which is the subject of this report, between April 1 and October 15, 2003. This report is based upon this work and a review of pertinent data from previous work, as outlined under "Selected References" in Appendix I.
8) I do not have any agreement, arrangement or understanding with Northern Continental Resources Inc. (NCR) to be or become an insider, associate or employee.
9) I do not own securities in NCR. My professional relationship with NCR is at arm's length as an independent consultant, and I have no expectation that the relationship will change.
10) I consent to the use of this report by NCR for such assessment and /or regulatory and financing purposes the company deems necessary, but if any part shall be taken as an excerpt, it shall be done only with my approval.

Jean Pautler, P.Geo.

JP Exploration Services Inc.



Northern Continental Resources Ltd.

Figure 8

ABO GOLD PROJECT

Sample, Trench and Drillhole Locations

(Au g/t,Ag g/t)

AB-11 (0.3,3.2)
- 12 (0.66,3.8)
- 13 (0.29,2.8)
- 14 (0.22,2.8)
- 15 (0.42,3.6)
- 16 (0.44,4.6)

N

STN. 0

TR 03-3

121775 (<5,<0.2)
121766 (10,0.4)
121767 (15,0.2)
121776 (<5,<0.2)
121765 (25,0.2)

4 ROAD

121780 (10,<0.2)
121779 (30,0.2)
121778 (40,<0.2)
121777 (50,<0.2)
121774 (10,<0.2)
121772 (340,3.8)
121770 (10,<0.2)

121773 (70,0.6)
121771 (5,<0.2)
121769 (<5,<0.2)

TR03-4

22302 (10,<0.2)
22301 (380,3.9)
60% py, 10% po, 1%cp (boulder)
22310 (10,0.2)

22306 (10,0.2)
22305 (10,0.2)
22304 (270,0.2)
22303 (10,0.2)

TR03-5

22313 (10,<0.2)
22312 (140,<0.2)
22309 (10,<0.3)
22308 (<10,<0.2)
22307 (10,<0.2)
22316 (10,<0.2)
22315 (<10,<0.2)
22314 (<10,<0.2)
22319 (10,<0.2)
22318 (10,<0.2)
22317 (10,<0.2)

20 20 30 75 70 75 45

TR03-6

22320 (10,<0.2)
22321 (10,0.2)

4 ROAD

LEGEND

- SOIL
- ROCK IN PLACE, FLOAT
- CHIP SAMPLE
- Quartz Veins
- TRENCHES 3-6
- Fault
- STRIKE & DIP of FOLIATION
- FOLIATION (SPECIAL)
- INCLINED
- VERTICAL

RESULTS (Au,Ag)
(ppb,ppm)

Northern Continental Resources Ltd.

Figure 9

ABO Gold Project

Detail of Trenches 03-3 to 6

5m 0 5m 15m

SCALE 1:250