

82-#881 - #10886

COMINCO LTD.

EXPLORATION
NTS:92H/9,10

WESTERN DISTRICT
December 1, 1982

ASSESSMENT REPORT ON A SOIL AND ROCK
GEOCHEMICAL, V.L.F., GROUND MAGNETOMETER,
DIAMOND DRILLING AND GEOLOGICAL MAPPING
SURVEY OF THE AXE PROPERTY
(Axe, Snow, Star, Pip & BSM Mineral
Claims, 169 Units)
SUMMERS CREEK AREA, SIMILKAMEEN M.D., B.C.

(work performed March 26, 1982 to October 30, 1982)

LATITUDE: 49°38'40"N

LONGITUDE: 120°31'45"W

REPORT BY:

D.T. MEHNER

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

10,886

part 1
of 2

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SUMMARY

The Axe property is an alkaline porphyry Cu-Au prospect located in the Princeton-Merritt copper belt of south central B.C. In 1982 a program including ground magnetometer, V.L.F., soil and rock geochemical surveys, geological mapping and diamond drilling was carried out on the property. Significant copper with minor gold and silver mineralization was found in altered Nicola volcanics and coeval diorite and monzonite. Minor pyrite and molybdenite associated with quartz veining were also encountered but are thought to be younger than the copper-gold. No obvious correlation between specific rock type and mineralization is apparent. Ground magnetic and V.L.F. surveys have not helped in locating mineralization. Continued evaluation of the mineralized system with further drilling is recommended.

INTRODUCTION

The Axe property is an alkaline porphyry Cu-Au prospect occurring in Nicola volcanics, about 20 km north of Princeton B.C. Extensive work done on the property in the late 1960's and early 1970's by various exploration groups identified three zones of copper mineralization (South, West and Adit zones). The property was examined by Cominco in 1978 and subsequently acquired in 1980.

Work completed on the property during 1982 included the establishment of 24.9 km of flagged and partly blazed grid lines, the logging of over 4750 ft of old diamond drill core, continuation of 1:5000 scale geological mapping of the property and completion of detailed geological mapping of the West Zone (1:1000) and Adit Zone (1:1200). One hundred thirty two soil, 151 rock, 205 old percussion rejects, 493 selected portions of old drill core and 239 new diamond drill core samples were analyzed for up to 7 trace elements. A ground magnetometer survey was conducted over 112.5 line km of grid and a V.L.F. survey using stations N.A.A. and N.L.K. was conducted over 66.8 line km of grid. One hundred six km of old grid lines were resurrected, 17 km of old roads were cleared, 2.7 km of new roads were built and 7 drill sites were prepared. Two thousand five hundred twelve feet of NQ diamond drilling was done in 6 holes.

The work was carried out between March 26 and October 30, 1982 by John Donahue and Dave Slade(grid construction, soil and rock sampling, V.L.F. and ground magnetometer surveys), David Mehner(core logging, geological mapping, report writing), Marlane Letilly(drafting) and Bob Ryziuk(drafting).

LOCATION AND ACCESS

The Axe mineral claims are located about 20 km north of Princeton B.C. and 2.5 km east of Laird Lake, in south central B.C.(Plate 1). The centre of the property is situated at 120°31'45" west longitude and 49°38'40" north latitude.

Access to the property is available to all vehicles by turning east off Highway 5, 9.5 km north of Princeton on to the Missezula Lake Road and then following the road north for about 10 km. The property can also be reached by truck by heading east for 3 km along a gravel road that leaves Hwy 5 at Laird Lake.

TOPOGRAPHY AND VEGETATION

The Axe property is situated along a gently rolling plateau that is dissected down the middle by Summers Creek. Elevation varies from 1470 meters(4820 ft) on top of the plateau in the north to 970 meters(3180 ft) along Summers Creek in the south. The slopes on either side of Summers Creek are quite steep, varying from less than 20° to 30° in the vicinity of the Adit zone.

Vegetation covering the property includes large fir and pine with lesser amounts of spruce, poplar and willow. Drainage on the plateau, particularly on the northern portion of the property is poor with small swamps being quite common. In addition to Summers Creek, which drains through the centre of the property, Rampart Creek lies to the east of the property and Stinson Creek drains the west side of the property.

PROPERTY AND OWNERSHIP

The Axe property is located in the Similkameen Mining Division and consists of the following claims.

<u>CLAIM NAME</u>	<u>RECORD NO.</u>	<u>UNITS</u>	<u>DATE RECORDED</u>	<u>DUE DATE</u>
Axe 1000	1216	12	Nov.3/80	Nov.3/85
Axe 2000	1217	9	Nov.3/80	Nov.3/85
Axe 3000	1338	16	Dec.11/80	Dec.11/85
Axe 4000	1339	16	" "	" "
Axe 5000	1340	16	" "	" "
Axe 6000	1341	16	" "	" "
Axe 7000	1342	10	" "	" "
Axe 8000 FR	1334	1	" "	" "
Axe 9000 FR	1335	1	" "	" "
Axe 10,000 FR	1336	1	" "	" "
Axe 11,000 FR	1337	1	" "	" "

<u>CLAIM NAME</u>	<u>RECORD NO.</u>	<u>UNITS</u>	<u>DATE RECORDED</u>	<u>DUE DATE</u>
Axe 12,000	1476	6	July28/81	July28/85
Axe 13,000 FR	1477	1	" "	" "
Axe 15,000	1503	5	Aug.19/81	Aug.19/85
Axe 15,000 FR	1514	1	Aug.27/81	Aug.27/85
(a) BSM 1 - 16	833 to 848	16	Nov.8/79	Nov.8/85
BSM 1 FR	1509	1	Aug.27/81	Aug.27/85
BSM 3 FR	1510	1	Aug.27/81	Aug.27/85
BSM 6 FR	1636	1	Mar.17/82	Mar.17/83
BSM 9 FR	1637	1	Mar.17/82	Mar.17/83
(b) STAR 1 - 8	1016 to 1023	8	May20/80	May20/85
STAR 1 FR	1511	1	Aug.27/81	Aug.27/85
STAR 2 FR	1532	1	Sept.11/81	Sept.11/85
STAR 8 FR	1512	1	Aug.27/81	Aug.27/85
(b) SNOW	1372	4	Feb.26/81	Feb.26/85
SNOW 1 - 8	638 to 645	8	June21/79	June21/85
SNOW 9	1504	2	Aug.19/81	Aug.19/85
SNOW 10	1530	1	Sept.11/81	Sept.11/85
SNOW 11	1531	1	Sept.11/81	Sept.11/85
SNOW FR	1513	1	Aug.27/81	Aug.27/85
SNOW 1 FR	1528	1	Sept.11/81	Sept.11/85
SNOW 3 FR	1478	1	July28/81	July28/85
SNOW 5 FR	1529	1	Sept.11/81	Sept.11/85
SNOW 7 FR	1638	1	Mar.17/82	Mar.17/83
(c) PIP 2,4,6,8,10	20782,20784, 20786,20788, 20790	5	July31/67	July31/83

NOTE: Cominco Ltd. is the registered owner of all claims except for those denoted by a letter. The respective owners of those claims are:

- (a) G.I. Burr, E. Mullin, W.C. Stevens,
- (b) T. Coyne, T. Coyne Jr.,
- (c) G.I. Burr, E. Mullin,

PREVIOUS WORK

The first known work to have been done on the Axe property was conducted in the mid to late 1930's when prospectors from Hedley B.C. put in a 30 meter adit in what is now known as the Adit zone. In more recent times activity on the property was initiated by J.A. Stinson when he staked the original group of Axe claims in 1966 on the west side of Summers Creek. The property was then offered to Adonis Mines Ltd. with Mr. Stinson becoming a major shareholder and officer of the company (Preto, 1979). In 1967, Meridian Syndicate optioned the property, restaked it and then prepared 3566 meters of grid line on what is now referred to as the South zone. They carried out EM, ground magnetometer and soil geochemical surveys along with trenching and 650 meters of BQ wireline drilling in 7 holes (Malcolm, 1973).

In 1968, Quintana Minerals Ltd. carried out a regional evaluation of the Axe property area and optioned the Axe claims from Adonis Mines Ltd. They conducted extensive trenching, sampling and geological mapping mainly north of where Meridian had worked. They also drilled four, widely spaced rotary holes totalling 1010 meters, and encountered low grade copper and molybdenum with minor gold and silver.

The property was returned to Adonis Mines Ltd. who then did further trenching and drilled 2 BQ holes totalling 274 meters in the spring of 1969. Later that same year Amax Exploration Inc. optioned the ground and held it until the fall of 1971. During that time they conducted an airborne magnetometer survey of the claims, constructed over 40 km of new grid lines, geologically mapped the entire property and carried out I.P., ground magnetometer, electro-magnetic(RADEM) and soil geochemistry surveys(Fox and Christoffersen, 1971; Malcolm, 1973). They carried out further trenching, discovered the West zone and drilled 52 percussion holes totalling 3200 meters and 15 diamond drill holes totalling 2700 meters before dropping the option. In 1972 and 1973 Adonis Mines Ltd. re-mapped the geology, did further trenching and drilled 22 NQ wireline holes totalling 3210 meters and 74 percussion holes totalling 2760 meters. Following this last stage of work, claims on the property were allowed to lapse with Adonis Mines Ltd. keeping only a minimum number of claims to cover showings on the South, Mid and Adit zones. In 1980, Cominco Ltd. optioned the property from Global Energy Corp.(formerley Adonis Mines Ltd.).

Considerable exploration activity has also taken place on the old Kalco Valley Mines Ltd. ground situated immediately east of Summers Creek(and the South zone). The first major effort on this ground was carried out by Quintana Minerals Ltd. in 1968 when they drilled 4 rotary holes totalling 451 meters. All these holes intersected pyritic rocks containing low grade molybdenum with trace amounts of copper(Christoffersen, 1971).

In May, 1970, Kalco Valley Mines Ltd. optioned the ground from E. Mullin and W. Armstrong and subsequently drilled five percussion holes for 110 meters within the Pip 3 mineral claim. Only minor copper and trace molybdenum values were obtained(Hicks, 1970). In November, 1970 Kalco Valley Mines Ltd. optioned the property to Amax who before year end completed soil geochemical and ground magnetometer surveys, geological mapping and drilled 17 percussion holes totalling 649 meters. In 1971 Amax drilled three diamond drill holes before dropping the option.

In 1972, Kalco Valley Mines Ltd. optioned the property to Iso Exploration Ltd. (now part of Teck Corp.) who conducted an I.P. survey over the ground(Mullan, 1972). The option was subsequently dropped, the claims reverted back to Mullin and Burr and most of the claims were allowed to lapse.

In 1979 the BSM claims were staked over much of the old Kalco Valley Mines ground. They were optioned to Cominco Ltd. in the fall of 1980.

Exploration has also been carried out on the portion of the property that is currently covered by the Snow 1-8 and Star 1-8 mineral claims. Initial work on this ground is believed to have taken place in the mid 1930's when an adit was put in along the east side of Rampart Creek. More recently, part of the Snow-Star ground was held by Coin Canyon Mines Ltd. who conducted a ground magnetometer survey, dug 4 trenches and drilled 310 meters in 2 percussion holes in 1966(Smith, 1966). In 1968, the ground was optioned to Quintana Minerals Corp. by T. Coyne of Princeton, B.C. Three rotary holes totalling 470 meters were drilled before the option was dropped. Further trenching was conducted by Mr. Coyne before Texas Gulf Sulphur Co. carried out geological mapping and a soil geochemical survey in 1971(Newell and Peatfield, 1971). In 1972, Iso Explorations optioned the ground and carried out geological mapping, rock sampling, an I.P. survey(Mullan, 1972) and drilled 3 diamond drill holes(no data available). The property then sat idle until optioned by Cominco Ltd. in 1981.

From 1980 to 1981 Cominco Ltd. carried out grid construction, soil and rock geochemistry, V.L.F. and ground magnetometer surveys(Mehner 1981a). Much of the property was geologically mapped at 1:5000 scale, old drill core was re-logged and selected portions re-analyzed. A legal survey of the Pip claims was also conducted(Mehner 1981b).

GRID PREPARATION AND CONTROL

New grid lines on the property were established using topochains and compass. Grid line locations relative to claim boundaries were established with the aid of a 1:5000 scale orthophoto. All lines were flagged and some blazed.

Resurrected lines were flagged and distances re-measured using topochains. Their positions were established with the 1:5000 scale orthophoto.

ROAD AND DRILL SITE PREPARATION

Over 17 km of old drill roads on the property were cleared of deadfall mainly with the use of axes and chainsaws. Where necessary, a D6 or 7E cat was used to clear rock debris or heavy timber that had fallen onto the roads.

Seven drill sites plus 2.7 km of new drill road were also built.

GEOLOGY

REGIONAL GEOLOGY

The Axe property occurs in the Intermontane Tectonic Belt of south central B.C.(Preto, 1979). Underlain by Upper Triassic Nicola volcanics and coeval intrusives, the area is noted for its abundance of copper showings that occur between the Copper Mountain camp to the south and the Afton Mine to the north. Numerous north trending, high angle faults occur throughout the Nicola belt of rocks. These are not only the dominant structural element but they also are important in localizing small, alkalic plugs and copper mineralization which is often associated with these quartz poor intrusives.

PROPERTY GEOLOGY

The geology underlying the Axe property (Plates 2-4) consists of a volcanic pile made up of augite + plagioclase basalt to andesite and trachybasalt/trachyandesite porphyry flows with massive to well bedded andesite to latite and dacite tuffs, siltstones, volcanic arenites and wackes, conglomerates and volcanic breccias. These are intruded by quartz poor, coeval diorite and micromonzonite porphyry. In the south central portion of the property fine grained diorite with a well developed quartz stockwork appears to intrude the Nicola volcanics. To the south west diorite to quartz monzonite rocks of the Upper Triassic-Lower Jurassic, Allison Pluton occur. Along the southern and eastern parts of the claim group pyroxenite to quartz monzonites of the Cretaceous, Summers Creek stock intrude. Minor quartz diorite to granodiorite dykes likely related to the Summers Creek stock (Plate 3) cross-cut micromonzonite porphyry in the Adit zone. Throughout the property but most commonly on the east side of Summers Creek, east west trending, porphyritic rhyolite and irregular trending plagioclase dykes cut all units of the Nicola assemblage as well as all coarse grained phases of the Summers Creek stock.

Three varieties of massive to porphyritic andesite and basalt dykes cross-cut rocks as young as the quartz diorite of the Summers Creek stock. These dykes are believed to be the youngest intrusive rocks on the property.

In the north western part of the property a maroon heterolithic conglomerate of undetermined age unconformably overlies the Nicola Group volcanics and possibly quartz diorite of the Summers Creek stock.

NOTE: The geological mapping carried out in 1982 is a continuation of the program that was started in 1981 (previous data was filed in an assessment report on the Axe property by Mehner, 1981a). Field mapping was conducted using a 1:5000 orthophoto base map of the property. Grid control and 1:1000 and 1:1200 scale base maps were used for more detailed work. Information was also obtained from logging old drill core (see Appendix "B" for drill logs) and from the 6 diamond drill holes (Appendix "C") put down in 1982. The locations of all logged drill holes are given in Plate 10.

Rock units found underlying the Axe property are:

UPPER TRIASSIC TO LOWER JURASSIC

Pyroclastics Unit 1a, b and c, Plate 2

1a Massive to finely bedded (up to about 4 cm) crystalline andesite tuffs, interbedded fine grained, grey, siltstone beds (1-4 cm) and light green-grey dacite tuff beds (1-4 cm common; occasionally massive dacite units up to 3 m wide). Andesite tuffs are composed of 20-45% subhedral to anhedral hornblende crystals ≤ 1 mm and 50-75% subhedral to anhedral angular plagioclase crystals. Graded bedding is visible in some outcrops. Minor lapilli sized, volcanic fragments are found throughout.

1b Andesite to latite and dacite crystal + lithic tuff, interbedded polymictic pebble conglomerate and breccia. Local bedding. Felsic clasts and or groundmass common.

1c Massive andesite, crystal + lapilli-tuff with minor latite equivalents.

Augite ± Plagioclase Basalt to Andesite and Trachybasalt/Trachyandesite Porphyry Flows Unit 2a,b and c, Plate 2

2a Green to grey augite + plagioclase basalt to andesite and or trachybasalt/trachyandesite flows. Fine grained groundmass with ±50% euhedral augite crystals average 2 mm and 15% plagioclase crystals average 1.5 mm. Up to 15% hornblende.

2b Grey to light green, massive or pyroxene + hornblende + plagioclase porphyritic and or amygdaloidal andesite flows. Often siliceous, ranging to dacite in appearance. Locally maroon.

2c Autobrecciated equivalents of 2a and 2b.

Dacite Tuffs and or Flows Unit 3, Plate 2

Very fine grained to aphanitic, massive, buff to light and dark green dacite. No characteristic textures or structures.

Sediments Unit 4a,b,c,d, Plate 2

4a Interbedded greywacke, siltstone and minor pebble conglomerate. Rounded pebbles, averaging up to 2 cm and rarely 5 cm in size are of siltstone, fine grained diorite or andesite and augite porphyry.

4b Fine grained, often highly altered and sheared, iron stained hornfelsed sediments or tuffs. Minor amounts of hornfelsed lapilli-tuffs or breccias.

4c Massive grey to light brown limestone.

4d Sericite shist. Strongly sheared equivalent of 4b or 6.

Diorite Unit 5, Plate 2

Fine to medium grained, equigranular to locally porphyritic diorite with up to 40% subhedral to euhedral hornblende crystals 1.5-2 mm in size set in a groundmass of subhedral to anhedral plagioclase grains with up to 5% interstitial quartz, minor interstitial K-spar and trace amounts of sericite.

Micromonzonite Porphyry Unit 6, Plate 2

Relatively equigranular fine grained, porphyritic monzonite with 25-45% plagioclase crystals average 1.5 mm and ±10% hornblende crystals set in K-feldspar groundmass. Locally strongly resembles diorite.

Allison Pluton Unit 7a & b, Plate 2

7a Coarse grained, locally porphyritic diorite to quartz diorite with 25%, 2-6 mm, euhedral, concentrically zoned plagioclase and 25-30% anhedral, interstitial hornblende grains averaging 2 mm in size set in a fine grained groundmass composed of plagioclase, hornblende and locally quartz.

7b Coarse grained, porphyritic monzonite with 35%, 6 mm plagioclase crystals, 10-15% subhedral to anhedral hornblendes, 3-4 mm in (chloritized and/or biotitized) a K-spar groundmass.

CRETACEOUS

Summers Creek Stock

Gabbro, Diorite, Granodiorite, Quartz Monzonite and Monzonite Unit 8a,b,c,d, Plate 2

8a Medium to coarse grained, commonly porphyritic granodiorite to quartz monzonite 30-35% euhedral, plagioclase crystals averaging 4 mm. Locally plagioclase crystals create a glomeroporphyritic texture. The rock has 15-25% interstitial quartz, 10-40% interstitial K-spar and 10% hornblende laths averaging 1.5-3 mm in length. Xenoliths of 8d have been found within this unit.

8b Medium to coarse grained monzonite that is often porphyritic. Texturally and compositionally it resembles the quartz monzonite of subunit 8a but lacks quartz.

8c Medium to coarse grained diorite to quartz diorite containing 15-25%, 2-6 mm long hornblende crystals (often altered to chlorite or biotite); 60-70%, 1-6 mm (3-4 mm average), euhedral plagioclase crystals; up to 8% interstitial quartz; trace to 2% interstitial K-spar and 2-5% interstitial or late stage sericite or muscovite. Contains xenoliths resembling re-crystallized fine grained diorite.

8d Pyroxenite to gabbro containing 85-100% "felted" pyroxene crystals 1-4 mm in length and up to 15% anhedral plagioclase crystals that are largely replaced by epidote.

Quartz-Plagioclase-K-Feldspar Porphyritic Rhyolite Unit 9, Plate 2

Fine grained to aphanitic, buff coloured rock that occurs throughout the property in dykes. It consists of 5-15% rounded quartz eyes averaging 3-4 mm, 5-10%, 2-4 mm euhedral K-spar crystals and locally 15-20% subhedral to euhedral plagioclase crystals 1-3 mm in size all set in a K-spar-plagioclase-quartz groundmass.

Plagioclase Dykes Unit 10, Plate 2

This unit is of limited extent. It occurs in the north end of the property crosscutting older Nicola volcanics and in the south end of the claim group intruding older phases of the Summers Creek stock. It consists of 5%, square to subhedral quartz, 1-4 mm in size; 35-60% subhedral to euhedral plagioclase phenocrysts 0.5-3 mm in size and up to 5% euhedral biotite, 1-5 mm in size all set in a fine grained leucocratic groundmass.

Andesite Dykes Unit 11, Plate 2

The andesite dykes are of uncertain age. They are post ore and are found cutting rocks as young as the diorites and quartz diorites of unit 8d. They may represent an intermediate phase of the Summers Creek stock or be the youngest rocks on the property. At least three different varieties of dyke have been found to date.

They are:

i) fine grained andesite with 10% "acicular" hornblende laths averaging 1 mm but ranging to 5 mm in length. The rock also contains 10-15% plagioclase crystals averaging 1 mm in length.

ii) porphyritic andesite dyke with 10-15% "blocky" plagioclase crystals 2-7 mm in length and 3-5% finely disseminated mafics plus opaques all set in a fine grained, grey, "sugary" groundmass.

iii) glomeroporphyritic andesite with 10-15%, 2-6 mm irregular concentrations of pyroxene crystals set in a fine grained groundmass of plagioclase and hornblende(?) that give the rock a "felted" appearance. Pyroxenes may be replaced by chlorite.

Maroon Conglomerate Unit 12, Plate 2

Heterolithic, pebble to cobble orthoconglomerate. Minor volcanic litharenite and breccia. Clasts vary up to 30 cm. Andesite and basalt clasts most common with lesser felsite and limestone fragments.

ALTERATION

All rocks on the property are weakly to (very locally) strongly chloritized with the intensity greatest in the South and West zones and between lines 4S and 16N on the east side. Epidote is wide spread and often occurs with pervasive and fracture controlled chlorite or with calcite as fracture fillings and irregular veins. Secondary K-feldspar often with magnetite and or epidote occurs as weakly developed pervasive alteration or veins in the South and West zones and as borders along quartz veins in the South zone and east side. Fine grained biotite, often with chlorite is found in the South and Adit zones. Local strongly albitized zones occur in the South and Adit zones and in parts of the east side.

Late stage gypsum veins and fracture fillings up to 1.5 cm wide are common in the Adit zone. Manganese and limonite are very common in the upper 30 meters of the Adit zone. Hematite, limonite and quartz veining are found in minor amounts throughout the property.

Intense leaching and associated clay development is common in the Adit zone.

Alteration of the Nicola Group appears to be a combination of regional metamorphism (wide spread chloritization of primary mafics), hydrothermal alteration (vein, fracture and localized pervasive K-feldspar, epidote, chlorite, biotite, magnetite) and contact metamorphism related to emplacement of the Summers Creek stock (hornfelsed sediments, minor quartz veining and associated K-feldspar). Some of the epidote, chlorite and calcite alteration is also related to faulting and shear zones.

The rocks of the Summers Creek stock are weakly altered with only minor chlorite replacement of mafics or clay development in shear zones. Hornblendes in diorite to quartz diorite have been altered to biotite and or chlorite in areas where younger granodiorites and quartz monzonites intrude.

The andesite dykes tend to be very fresh aside from some chlorite replacement of pyroxenes and thus have been interpreted to be the youngest rock unit on the property.

MINERALIZATION

Mineralization on the property occurs as disseminated, vein and fracture controlled (most common) pyrite and chalcopyrite with minor molybdenite and rare pyrrhotite in the South, Adit and West zones and between 2N and 28N and 20S and 28S on the east side of Summers Creek(see Plates 2-4 for sulphide distribution). Total sulphide content in the mineralized area ranges from 0% to 20% in part of the Adit zone and averages about 3% throughout. In most places, pyrite>chalcopyrite except for the better mineralized areas where chalcopyrite>pyrite and there is often (South and West zones) abundant disseminated and vein magnetite($\pm 15\%$) associated.

Minor molybdenite is found in all mineralized zones. It occurs on chlorite lined fractures, as irregular stringers and disseminated grains in locally strong, pervasive epidote-K-feldspar alteration and as finely disseminated grains(that often contain pyrite and/or chalcopyrite) in quartz veins.

The pyrite-chalcopyrite mineralization occurs in all volcanic rock units plus the diorite and micromonzonite porphyry. The mineralization is believed to be closely related to emplacement of the quartz poor intrusive rocks.

Pyrite-molybdenite mineralization occurs in the volcanics as well as in a quartz-stockwork occurring in diorite. The age of the diorite is uncertain but the quartz stockwork and associated mineralization appears to be younger than the pyrite-chalcopyrite mineralization.

STRUCTURE

The entire property is strongly faulted, jointed, fractured and sheared in virtually all directions and at all angles. However the dominant structures appear to be the steeply dipping, north south trending Summers Creek fault which runs down the Summers Creek Valley and a strong fault zone which trends at about 140-320° through the South zone. Numerous structural readings(see Plates 2-4) indicate this fault zone dips steeply to the northeast and southwest although many shallow dipping structural features were also noted. A third set of common fractures trend at about 045°. These fractures are most obvious in the South and Adit zones.

Folding was not observed on the property.

GEOCHEMISTRY

Soil Geochemistry

A soil geochemical survey was completed between lines 20S and 32S on the east side grid. Eighty four samples were collected at 100 meter intervals from grid lines spaced 100 meters apart. All samples were analyzed for Cu,Pb,Zn,Mo. There were also three reconnaissance contour soil lines put in through the Adit zone. Forty eight samples were collected at 100 meter spacings along the lines. All samples were analyzed for Cu,Pb,Zn and thirty four were also analyzed for Au.

All soil samples were analyzed by Cominco's laboratory in Vancouver. Contoured results are shown on Plates 5 and 6 and values are listed in Appendix "D".

Samples were collected from the "B" soil horizon whenever present. In cases where none was obtainable an analysis was made of the available material. All soils were air dried and then sieved through 80 mesh screens. Copper, Pb and Zn analysis were made using nitric acid(20% HNO₃) digestion followed by atomic absorption.

Molybdenum was determined by using aqua regia digestion followed by atomic absorption. Gold analysis involves aqua regia digestion, solvent extraction and atomic absorption. Coefficients of variation are 10-15%.

Values taken to be anomalous were ≥ 80 ppm Cu, ≥ 3 ppm Mo, ≥ 10 ppm Pb, ≥ 150 ppm Zn and 100 ppb Au.

In the area of 20S to 32S(Plate 5) a moderate intensity copper anomaly (1100 m x >400 m and up to 413 ppm Cu) occurs with a weak molybdenum(550 m x 300 m and up to 12 ppm Mo), and moderate intensity lead(1300 m x >450 m and up to 43 ppm) anomaly. Only one anomalous zinc value (153 ppm) was obtained. The anomalous values occur directly over and down slope from a number of copper showings situated in Nicola volcanics.

The area covered by the three reconnaissance contour soil lines, AS1, AS2 and AS3(Plates 5 and 6) is almost all anomalous in copper with an area greater than 1200 m x 800 m containing values up to 1490 ppm. A slightly smaller lead(900 m x 600 m and up to 135 ppm Pb) and much smaller zinc(3 small anomalies up to 606 ppm Zn) and gold anomaly(2 values up to 154 ppb Au) occur within the anomalous copper zone.

The anomalous values obtained in the contour sampling are largely underlain by strongly altered and leached, limonite stained micromonzonite porphyry and andesitic tuffs. Numerous malachite and chalcopyrite showings would account for the large copper soil anomaly. Presumably the minor lead, zinc and gold mineralization is associated with the copper.

Rock Geochemistry

As part of the property evaluation 151 rock chip samples primarily from trenches in the West zone(21), Adit zone(85), and Coyne zone(25) were collected and analyzed for up to 6 trace elements(Cu,Pb,Zn,Ag,Au,Mo). All samples were analyzed by Cominco's lab in Vancouver. Results are listed in Appendix "E" and values are plotted on Plates 2,4 and 7.

Copper, Pb, Zn and Ag analysis were made using aqua regia digestion followed by atomic absorption. Gold was determined by aqua regia digestion followed by solvent extraction and atomic absorption. Molybdenum was determined by using a nitric acid(HNO₃), perchloric acid(HClO₄) digestion followed by a colorimetric procedure.

A summary of the sampling is as follows:

Area	Cu ppm		Ag ppm		Au ppb	
	range	average	range	average	range	average
West zone	61-3000	771	<.4-.9	<.4	<10-284	50
Adit zone	32-7390	719	<.4-13.0	≈.76	<10-612	≈24
Coyne zone	15-8250	589	<.4-9.2	≈.9	<10-88	< 10
North area	<1-176	43	<.4-.9	<.4	< 10	< 10

The geochem sampling confirms the presence of interesting Cu,Ag and Au values in the West, Adit and Coyne zones. Weathering of exposed rocks makes meaningful interpretation of the geochem results impossible. Sampling of gossanous zones in the northern part of the property returned very low values for all elements.

Diamond Drill Core

Along with logging the old drill core, 493 samples from selected holes were sent to Cominco's Vancouver lab for analysis of up to 7 trace elements(Cu,Pb,Zn,Ag, Au,Mo,Hg). An attempt was made to restrict sample lengths to 10 ft intervals. Gold and Mo analyses were made primarily on 20 ft composites. Mercury analyses were made on approximately 50 ft composite samples. All values are listed in Appendix "F" and drill hole locations are shown on Plate 10. Method of analysis for Cu,Pb,Zn,Ag,Au and Mo is given in the section on rock geochemistry. Mercury analysis involves aqua regia digestion followed by atomic absorption. The sampling confirmed the presence of interesting Cu,Ag and Au values on the property as indicated below.

	Cu ppm	Ag ppm	Au ppb	Pb ppm	Zn ppm	Mo ppm	Hg ppb
Range	11->16,700	<.4-13.0	<10-2210	<4-23	12-951	2-96	<5-2800

Although the sampling has been somewhat erratic no obvious correlation between geochem values and rock type is readily apparent. Good Cu, Au and Ag values do occur in the West, Adit and South zone areas.

In addition 6 new diamond drill holes were put down and their core split and analyzed. Values are listed in Appendix "G".

The values from this new drilling are relatively low with most copper values being less than 1000 ppm, lead less than 20 ppm, zinc less than 300 ppm, silver less than 5 ppm, gold less than 10 ppb and molybdenum less than 3 ppm. Better values include greater than 29800 ppm Cu over 2 ft in hole 82-3 and up to 228 ppm Pb greater than 10380 ppm Zn and 35.2 ppm Ag over 10 foot sections in hole 82-3. Up to 126 ppm Mo over 10 feet was encountered in hole 82-5.

Percussion Rejects

Besides sampling old drill core, 205 samples of old percussion hole reject material were analyzed for Cu, Ag and Au. Samples represented 10 ft intervals from holes drilled by Adonis Mines Ltd. in 1973. Gold analysis were made primarily on 20 ft composites. All values are listed in Appendix "H" and drill hole locations are shown on Plate 10.

Analysis were done at Cominco's lab in Vancouver using the same techniques as for rock samples.

The values obtained appear to be very erratic, even after taking into account the relatively random sampling procedure. No apparent correlation between rock type and geochemistry is obvious. A summary of the data is as follows:

<u>Analysis</u>	<u>Range</u>	<u>Mean</u>	<u>Median</u>
Cu	8-6850ppm	663ppm	314ppm
Ag	<.4-3.7ppm	0.5ppm	0.3ppm
Au	<10-160ppb	16.5ppb	9.8ppb

GEOPHYSICS

V.L.F.

A V.L.F. survey was conducted over 66.8 km of grid lines on the property using a GEONICS EM16 instrument. Readings were taken on all lines at 25 meter intervals using the Seattle Washington transmitting station N.L.K. and the Cutler Maine transmitter, N.A.A. Data is plotted in standard profile form on Plate 9(station N.L.K.) and Plate 10(station N.A.A.).

The profiles are plotted to give right wave crossovers over V.L.F. conductive features. Such features are noted by heavy lines on the diagrams.

In general a number of north-south trending features occur throughout the area tested. Geological mapping on the property has not provided an explanation for many of these conductive features although some are believed due to north-south trending faults. Mineralization does not appear related to the V.L.F. conductors.

Ground Magnetic Survey

A ground magnetometer survey was conducted over 112.5 km of grid line with readings taken every 25 meters.

The survey was conducted with a Scintrex MP-2 proton precession magnetometer that measures the earth's total magnetic field to the nearest gamma. Diurnal variation was checked by establishing base stations where picket lines crossed the roads. Readings were taken at the base stations about every 2 hours with only minimal changes in values observed. When necessary minor corrections were made by using a graph of time vs the ground magnetic values obtained at the same base station over a period of time.

Background for the survey was taken to be 57000 gammas. Values relative to this are plotted on Plate 11 and contoured. The survey shows relatively high magnetic values in the area west of the baseline including the West zone, a small area immediately west of the Adit zone, most of the Coyne zone and much of the ground east of Summers Creek except for between lines 10N to 15N. A significant magnetic low occurs over the Adit zone to South zone area and between lines 10N to 15N on the east side.

Correlation with the geology map indicates the magnetic high values correspond to areas containing vein, fracture and disseminated magnetite or rocks that are relatively weakly altered. The magnetic low values correlate with areas of stronger hydrothermal alteration.

DIAMOND DRILLING

Six, widely spaced NQ diamond drill holes totalling 2512 ft were drilled on the property to test for mineralization and to gather geological information. The geochemical and geological results of these holes were discussed above. Drill logs are in Appendix "C" and drill hole locations are on Plate 10.


The drill core is presently stored on the property.

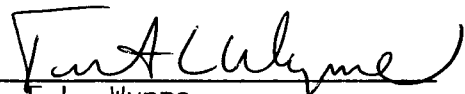
CONCLUSIONS


The Axe alkaline porphyry copper-gold prospect is situated in Triassic basalt to andesite flows and volcanoclastics intruded by coeval diorite and micro-monzonite porphyry plugs. Pyrite and locally significant copper with minor gold and silver mineralization are found throughout these Nicola Group rocks. Pyrite and minor molybdenite mineralization occur in a quartz stockwork that appears to be younger than the copper-gold mineralization. The quartz-bearing Cretaceous, Summers Creek stock cuts the sulphide mineralization off on the southern part of the property. Numerous dykes related to the Summers Creek stock and a series of basalt-andesite dykes cut the Nicola Group rocks throughout the property.

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District

DTM/sw

Distribution:

Minister of Mines(2) ✓
W.D. File(1)
Vernon File(1)

APPENDIX "A"

COMINCO LTD.

EXPLORATION

WESTERN DISTRICT

STATEMENT OF EXPENDITURE

FOR WORK ON THE AXE PROPERTY

SALARIES

John Donahue (June 19 - Aug. 29) 60 days @ \$66/day	\$	3,960.00
David Slade (June 21 - Oct. 22) 90 days @ \$78/day		7,020.00
Rick Wynne (March 26 - Oct. 30) 10 days @ \$180/day		1,800.00
Bob Ryziuk (Aug. 20 - Oct. 30) 8 days @ \$105/day		840.00
Marlane Letilly (Sept. 28 - Oct. 30) 12 days @ \$100/day		1,200.00
David Mehner (March 26 - Oct. 30) 100 days @ \$140/day		14,000.00

ROAD CLEARING - DRILL SITE PREPARATION

1 D6 - 4 days	2,950.00
1 7E - 1 day	838.08

GEOCHEMISTRY

a) 205 percussion rejects for Cu,Ag, 83 Au & 73 Au composites	1,580.25
b) 493 old drill core samples for Cu,Ag; 138 for Pb; 182 for Zn; 86 for Au; 210 Au composites; 23 for Mo; 86 Mo composites; 33 Hg composites	6,343.25
c) 151 rock chip samples for Cu,Ag,Au; 20 for Pb and Zn	1,426.75
d) 239 new drill core samples for Cu,Pb,Zn,Ag,Au,Mo and 48 Hg composites	3,206.50
e) 132 soil samples for Cu,Pb,Zn; 84 for Mo; 34 for Au;	808.20

@ \$1.75 for Cu; .75 ea. for Ag,Pb,Zn; \$4.50 for Au & Hg; \$1.75 for Mo and prep. charges.

GEOPHYSICS

Mag rental for 50 days and VLF for 25 days @ \$15/day each and repairs	1,385.00
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DIAMOND DRILLING

2512 ft. of NQ plus additives, water and mobilization	70,407.41
70 NQ core boxes	363.58

TRANSPORTATION

1 truck & gas & maintenance for 6 mos. @ \$900/mo.	5,400.00
1 truck & gas & maintenance for 6 mos. @ \$800/mo.	4,800.00

DOMICILE

250 mandays @ \$18/manday plus house rental for
6 months @ \$500/month 7,500.00

MISCELLANEOUS

Flagging, freight, plastic bags, chainsaw and
motorbike repairs; map blow-ups; bridge repairs; 1,750.00

TOTAL

\$ 137,579.02

Drill Hole record



Sheet 1 of 1

Property	AXE	District	SIMILKAMEEN M.D.	Hole No.	M-2	LENGTH	427'
Commenced	1967	Location	SOUTH ZONE	Tests at		Hor. Comp.	
Completed	1967	Core Size	BQ	Corr. Dip	-90°	Vert. Comp.	
Co-ordinates	43 995 N / 24 270 E	Elev.	4300	True Brg.		Logged by	DTM
Objective		Claim	AXE 4000	% Recov.		Date	Sept 182

Footage		Description	Sample No.	Analysis	
From	To				
32	53	Plag ± augite basalt to andesite flows; massive; Fe-esp on fractures; $\le 5\%$ Lpy + $\le 1\%$ P ₁ w ep. veinlets/fractures; malachite. rock is dark grey to black w 25% w/hly epidote replaced slag. crystals up to 3mm; strongly magnetic;			
194 1/2	217	Augite-plagioclase porphyritic basalt-andesite flows; ep veins/veinlets / fracture fillings contain $\approx 0.5\%$ Lpy + 0.5% P ₁ ; minor py veins have weak K-spar + augite ± ep halos + Lpy; No diss py except next to veins. Lpy veins 2mm wide @ 210'; little alteration.			
303	326	Massive, fine gr., grey siliceous (dacite-rhyolite??) rock; $\approx 1\%$ finely diss P ₁ ; 1-5% s/hld laths; minor fract. ep.			

APPENDIX "B"
DRILL LOGS FROM OLD DRILL CORE

Drill Hole record



Sheet 101

Property	AXE	District	SIMILKAMEEN M.D.	Hole No.	M-3	LENGTH	223'
Commenced	1967	Location	SOUTH ZONE	Tests at		Hor. Comp.	
Completed	1967	Core Size	BQ	Corr. Dip	-090°	Vert. Comp.	
Co-ordinates	43,650 N / 24,450 E	Elev.	4250'	True Brg.		Logged by	DTM
Objective		Claim	AXE 4000	% Recov.		Date	APRIL 1982

Footage		Description	Sample No.	Analysis	
From	To				
49	100	<p>Micromonzonite porphyry; euhedral, 2-3mm plagioclase set in Ksp. groundmass; - trachytic; hblld laths 2-4 mm (rarely to 9mm) av. 10% of rock. - also trachytic; minor limonite + malachite to 103'; lim + Mn ± chl on fract // to core @ 70° to core; fault gouge @ 66'; - wk. qtz veining assoc w secondary Ksp + ep; well fract; av: ≤ 0.6% Py + Tr. of lpy diss & on fract; - replaces hblldo;</p> <p>- qtz - chlorite - Ksp - ep assemblage ± clays occur on fract. w assoc. lim & mal.</p> <p>- MoS₂ assoc w lpy + magnetite + qtz ± Ksp occ. on hairline fract.</p>			
100	175	As above but significantly less sulphide.			
175	223	Same rock; little / less alteration; minor sulphides as replacement for hblld; - minor qtz veins 4-5mm wide @ 5-10° & hairline fract lined w mafics @ 80° to core;			

Drill Hole Record



net 1 of 2

Property	AXE	District	SIMILKAMEEN M.D.	Hole No.	M-4	LENGTH	352'
Commenced	1967	Location	SOUTH ZONE.	Tests at		Hor. Comp.	
Completed	1967.	Core Size	BQ	Corr. Dip	-090°	Vert. Comp.	
Coordinates	44 335'N / 24535'E	Elev.	4200'	True Brg.		Logged by	DTM.
Objective		Claim	AXE 3000	% Recov.		Date	APRIL 6/82

Depth From To	Description	Sample No.	Analysis		
0 - 45.6	MISSING				
45.6 - 61	Volc. fragmental; perv. ep; Monz porph veins; numerous monz porph clasts; diss py w ep \approx 3-5%; vein/fract Py; tr mal @ 49-50';				
61 - 107.	Monz porph to porph monzodiorite; Strong calcite fract; minor dk. green chlorite on fract; minor Qtz vein; Py veins/fract/diss \approx 5% \downarrow to 1-2% locally; mafic epidotized or py. replaced; albitized; \ll 1% finely diss lpy w py, esp after mafic; strongly broken (Fault?) @ 83-115; strong "cracks" brx. throughout - clasts rounded.				
107 - 119 1/2	broken, calcite / sulphide veined, andesite - basalt dyke; \leq 1% Py; pervasively altered.				
119 1/2 - 172	as 61-107. but av. 1-2% Py & Qtz veins up to 2cm across. still brecciated & calcite fractured; minor dk green chlorite; vein-fract py @ 45° to core; - ep clasts; coarse, secondary (?) amorphous minor 2nd. basalt fract;				
172 - 178 1/2	Fine gr. barren andesite dyke; fract w calcite; minor chl \pm km;				
178 1/2 - 248	Plag + augite basalt porph; strongly broken; perv. ep; fract chl; 2% fract				

Drill Hole Record



Property	AXE	District	SIMILKAMEEN M.D.	Hole No.	69-6	LENGTH	510'
Commenced		Location	WEST ZONE	Tests at		Hor. Comp.	
Completed		Core Size	BQ	Corr. Dip	-45°	Vert. Comp.	
Coordinates	49,430'N / 20,700'E	Elev.	4650	True Brg.	250°	Logged by	DTM.
Objective		Claim	AXE 6000	% Recov.		Date	MAY 27/82

Stage From To	Description	Sample No.	Analysis	
397 - 432	Polymictic, or volcaniclastic to pebble congl; felsic frags common; diorite + basalt frags present; hem-ep common on fract; 1-2 mm qty veins $\approx 45^\circ$ to core x-cut ep-hematite; chl on fract; esp. from 420-432; magnetite abundant, often as stringers around frags; Py veins, diss w ep & on ep \pm calc \pm chl fract very common ($\approx 5-10\%$)			
432 - 458	As above; more monzonite-syenite frags, generally ≤ 3 mm; pervasive epidote; diss, vein, fract ep, often w ep - magnetite common ($< 1\%$) - 2" mag. vein @ $445\frac{1}{2}$; minor Ksp \pm Bio + ep alt as veining around frags; pervasiv ep area is brecciated by qty veins (minor) & ep veins.			
458 - 482	Fine-med gr., w/ky hld porphyritic homogeneous diorite; Perovram + fract controlled ep as above, \downarrow w intensity @ 475'; $\approx 1\%$ Ksp w ep veins on fract & as small clots or stringers in pervasiv ep; Py $\leq 1\%$ - minor vein Ksp + magnetite on clots of Ksp w mag in perv. ep alt-zone.			

Drill Hole Record



Sheet 1 of 2

Property	AXE	District	SIMILK AMEEN M.D.	Hole No.	69-7	LENGTH - 657'
Commenced	1969	Location	WEST ZONE	Tests at		Hor. Comp.
Completed	1969	Core Size	BQ	Corr. Dip	-45°	Vert. Comp.
Coordinates	48,400'N / 20 250' E	Elev.	4580'	True Brg.	010°	Logged by DTM
Objective		Claim	AXE 6000	% Recov.		Date Sept 23/82

Depth From To	Description	Sample No.	Analysis	
0 - 36	Missing.			
36 - 79½	strongly ground to 43½'; massive, felsic polyminetic fragmental; lapilli-tuff volc. pebbles rough; ^{some} latite frags; mafic chl; wh ep ± ksp veins; Vein, fract + diso Py ≈ 1-3%; tr. lpy in hairline ep. fract & on Py to 55'; rh skewed // to core @ 47-51'; ground core @ 51½-55'; 61-75' only 20% core left. - by 60' rh appears to be partly massive andante tuff ± lithic fragments.	40		
79½ - 151½	Missing.			
151½ - 158	Fine gr. hblt-porphyrific (15% hblt phenos), leuco plagioclase; qtz stockwork; buff to light green colour; diso Py replaces hblt phenos, occurs on hairline fract & as discontinuous veins; ≈ 3-5% Py			
158 - 197½	Massive microdiorite porph w plag laths / phenos av 1mm, range to 2mm; wholly albitized; wh ksp, ep + chlorite; 2-3% diso Py; mafic = plag grain size; tr lpy in ep on w Py; pervasive ep ↑ after 172'; tr of diso lpy in ep; diso + vein Py av 1-3%; ksp flooding @ 187-194'.			
197½ - 209	As above but groundmass altered to fine gr. ep-chl; tr lpy - usually w ep; Py < 1% diso & as minor veins or fract filling; ep forms clots; minor chl replacements of pyrox lth accumulations (glomeroporphyritic - rare!).			
209 - 216	Same microdiorite; mod perv. ep; 5-10% relict hblt; 1-3% diso Py w ep;			

Drill Hole Record



Property	District	Hole No.	69-7
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates	Elev.	True Brg.	Logged by ATM.
Objective	Claim	% Recov.	Date

Elevation		Description	Sample No.	Analysis	
From	To				
		Common vein/fract filling Py w minor disc sp			
216	230 1/2	Same microdiorite as 209-216; $\leq 1\%$ Py; very massive, equigranular microdiorite w pervasive ep; minor mafic xenoliths.			
230 1/2	394	MISSING			
394	416	Massive augite - plag. basalt porph; cut by numerous calcite filled hairline fract; chl common on fract, ↑ toward 416'; $\leq 2\%$ disc + fract Py; wk ep in groundmass;			
416	440	MISSING			
440	457	fine gr. , w/ly porph andesite to latite porph flow; ep. on fract & in groundmass; tr Py; $\approx 1/2\%$ Cpy in ep - vugs / fract; magnetite on fract w ep.			
457	461	andesite to andesite-dacite porph flow w blocky plag phenos up to 1cm set in fine gr , massive, grey groundmass; Py on fract; tr Cpy w minor ep.			

Drill Hole Record



Sheet 10P3

Property	AXE	District	SIMILKAMEEN M.D.	Hole No.	69-8	LENGTH	500'
Commenced	1969	Location	WEST ZONE	Tests at		Hor. Comp.	
Completed	1969	Core Size	BQ	Corr. Dip	-90°	Vert. Comp.	
Coordinates	48400'N / 20,250'E	Elev.	4580	True Brg.		Logged by	DTM
Objective		Claim	AXE 6000	% Recov.		Date	AUG 1982

Elevation From To	Description	Sample No.	Analysis		
0 - 78	Missing.				
78 - 114	porphyritic monzonite to diorite; plag repl by sericite &/or ep; Calcite fract; 40-60% Plag Kfils 1-2mm w interstit magfic; Kap + diss Py; alt ↑ w ↑ depth; only 10% core left; badly ground; (< 20% Kap).				
114 - 135	Missing				
135 - 153	As 78-114 - relict magfic chloritid; local brecciation @ 140-143; fract Py - ep ↑ w depth; Py in ep fract filling; Rho mod to strongly magnetic x 55% core remaining.				
153 - 159	fine gr, grey pyrox andesite porph; 10% pyrox Kfils ~ 1-5mm & occ. 1-1.5mm ep clots (after plag?!) in fine gr. groundmass. Ep clots / veins / fract common; - evenly spaced @ 25° to core & then cut by other random, later stage calcite; Kfils of < 1% Kap w ep fract; Pre mineral dyke.				
159 - 172	As 135-153 - diss Py & well developed pervasive ep alt; See dyke contact w 153-159 unit - hematite on fract.				
172 - 176 1/2	As 153-159 - core from 152 1/2 - 176 1/2 x 60% present; grinding of core.				
176 1/2 - 186 1/2	Missing.				
186 1/2 - 190 1/2	As 159-172. - leached, altered porph diorite w diss Py x 1/2-1% & 1% of fine diss Kap w magfic.				

Drill Hole Record



Property	District	Hole No.	69-8
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Coordinates	Elev.	True Brg.	Logged by
Objective	Claim	% Recov.	Date

Stage From To	Description	Sample No.	Analysis		
190 1/2 - 205	Fine gr, dk grey basalt w 5-10% plag xls replaced by ep ± sericite; dk green chl on slickensided fract; random, common calcite fract; ep ± calc ± horn ± Lpy fract common; stringer Lpy along horn-calcite-ep fract @ 45° to core; some irregular op "flooding" of groundmass; Lpy on calcite fract.				
205 - 207 1/2	As 186 1/2 - 190 1/2; groundmass to ep; texture destroyed; minor dis Py; chlorite clots - after mafics? - from 186 1/2 - 207 1/2 only 60% core left.				
207 1/2 - 279	MISSING				
279 - 295	As 186 1/2 - 190 1/2 w no / little ep; leached, ep albitized w minor light green sericite; Brecciation @ 186; get subangular frags < 1cm in a lighter coloured groundmass @ ≈ 40° - 50° to core; contains good clots of Lpy + dis Py; x 1% dis Py; breccia ^{strands} albitized; ≈ 50% core from 279 - 285';				
295 - 308	Missing.				
308 - 323	As above but w 10-15% subradial mafics (hbl + chloritized) in highly altered plag groundmass; has finer gr. portions & numerous, large, "accidental" hbl xls up to 6mm; more dis Py + tr. Lpy & from 312' ep ± calcite is common often w good Py & some Lpy. ≈ 55% core remaining.				
323 - 371	MISSING				

Drill Hole Record



Property	AxE	District	SIMILKAMEEN MD.	Hole No.	71-1	LENGTH	700'
Commenced	1971	Location	EAST SIDE	Tests at		Hor. Comp.	
Completed	1971	Core Size	NQ	Corr. Dip	●	Vert. Comp.	
Co-ordinates		Elev.		True Brg.	090°	Logged by	DTM
Objective		Claim	BSM-11	% Recov.		Date	APRIL 1982

Footage		Description	Sample No.	Analysis	
From	To				
0	20	MISSING			
20	46	Massive, pink, med-fine gr. leucocratic qtz diorite; brecciated; strongly veined w white qtz (stockwork); qtz vein 36.6-39 w limonite on fract in qtz vein; localized, minor kaolinite; Tr sulphide.			
46	70	MISSING			
70	118	As 20-46 but grey from 71-89 w some brecciation; large qtz vein from 81.6-83.6 & 86.6-89; minor stringer Py in qtz veins esp on brecciated diorite zones intruded by veins; Rk barren in Py.			
118	142	MISSING			
142	177	Fine-med. grained, whly porph monzodiorite w 25-30% 1-2mm euhedral hbld Kfs; Rk ^{has} pinkish tinge w minor lam ± chl on fract @ various angles; often lined w calcite; calcite cuts Ksp; Py << 1%;			
177	228	Porph qtz monzonite w pinkish, med gr. blotchy texture & definite Ksp phenos, blocky, 2-3mm & ≈ 10% interstitial mafics set in fine gr. qtz, plag groundmass; minor fract lam of chl & ≤ 2mm calcite veins; Rk locally crumbly (kaolinized?); No Py; xenoliths (rare) to 10cm.			
228	426	MISSING			
426	451	Pink, med, fine gr., porphyritic qtz monzonite w Ksp phenos set in fine gr qtz-plag groundmass w ≤ 3% mafics + oxides; equivalent of 20-46(?) but w out qtz veins			

Drill Hole Record



Sheet 1 of 4

Property	AXE	District	SIMILKAMEEN M.D.	Hole No.	71-2	LENGTH	700'
Commenced	1971	Location	EAST SIDE	Tests at		Hor. Comp.	
Completed	1971	Core Size	NQ	Corr. Dip		Vert. Comp.	
Co-ordinates		Elev.		True Brg.		Logged by	DTM
Objective		Claim	BSM-13	% Recov.		Date	July 24/82 # 26

Footage		Description	Sample No.	Analysis		
From	To					
0	113	Med. gr. andesite tuff; 5% diss + stringer Py; core badly grind; \approx 13% recovery - drilled talus Pile???				
113	127	Fine gr., light grey andesitic tuff; barren; poor recovery				
127	135	Plag - Abld perphyry diorite to monzonite; Bulk of rk is med. gr. Abld diorite w 10% diss magnetite; Very minor Py; Badly grind from 133-135;				
135	177	leucocratic diorite w some sericite \pm minor chlorite; 10% chloritized Abld Kfs in light diorite; foliated w faint "condensed" texture; fault gouge @ 151-152 1/2; grind core till 158' d @ 164 1/2 - 166; by 167 flakes of muscovite are common;				
177	195 1/2	Fine gr., "speckled" dacite - granodiorite dyke; Barren; fault gouge @ 182 1/2 - 183'				
195 1/2	205	Ground, monzonite porph; chlorite repl. mafics; \leq 1% Py diss after mafics. amygdaloidal				
205	213	Massive, fine gr. andesite w finely diss Py (< 1%); med-wk; pervasive ep replacement; \approx 3% ruder calcite amygdalae w occ. pink salvages.				
213	217	As above (?) w well developed qtz stockwork w veins 4-5 mm; MoS ₂ + Py in veins or as salvages; also on fract.				

Drill Hole Record



Property	District	Hole No.	71-2
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates	Elev.	True Brg.	Logged by
Objective	Claim	% Recov.	Date

Footage From To	Description	Sample No.	Analysis		
217-227.	Monz to diorite ± porphyritic; Well developed Qtz stockwork; MoS ₂ common w veining (in or beside) & as disc grains w ksp; Py (1-5%) assoc w MoS ₂ or in Qtz veins & on fract.				
241-258	Crowded hbl'd diorite porphyry. Plags av. 2mm, zoned + blocky; hbl'ds ≈ 20% interstitial-anhedral; Qtz stockwork strongly developed from 241-249; MoS ₂ on fract & in qtz veins; ≤ 3% disc + vein Py; Ksp flooding common; has assoc ep, chlorite, MoS ₂ , Py; some anhedral hbl'd laths;				
258-311	Missing				
311-338	Same crowded hbl'd diorite; cut by xthene to massive Ksp-ep network; some qtz stockwork cuts ep-ksp-qtz veins up to 1.2cm; disc Py + vein Py; tr. MoS ₂				
338-400	As above but rth looks fresh w trachytic texture & 2-4mm euhedral-subhedral hbl'd laths; disc + fract Py ≈ 3-5%; very little qtz veining; tr. MoS ₂ max.; Ksp-ep (minor) from 338-≈ 377; qtz veining ↑ from 377-388; rth more green w ep from 338-350; from 377-398 rth pink w ksp, minor ep & av 1-3% Py				
400-408 1/2	Very fine gr black basalt dyke; Barren; no alteration.				

Drill Hole Record



Property	District	Hole No.	71-2
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates	Elev.	True Brg.	Logged by
Objective	Claim	% Recov.	Date

Footage		Description	Sample No.	Analysis		
From	To					
410	450	Same pink to white white, crowded diorite porph w minor qtz stockwork, minor ep, less chlorite, 1-3% disc of vein Py; no obvious MoS ₂				
450	455	Strongly fract, silicified, ep. veined zone w 3-5% Py; wk pink diorite veining w minor MoS ₂ on fract.				
455	463	Same diorite; more chloritized; brecciated w frags clearly rotated @ 455-456 1/2; hydrothermal breccia; Py vein to 2cm across; Rk "grungy"; losing good khln texture;				
463	505	As above but w Qtz st stockwork + ep, tr. chl, Ksp, py + minor MoS ₂ - qtz veins w disc Py, lined w MoS ₂ + either Ksp or ep; other veins w finely disc MoS ₂ , Py, + tr. Cpy; some minor ep locally.				
505	555	As above w minor stockwork, MoS ₂ & Py; Qtz veins to 5-10 cm wide to 550 ; @ 545 1/2'; MoS ₂ fract @ 550-551.				
555	582	Rk albited; cut by Qtz veins to 2cm wide; very fract, light grey, fine grained + common MoS ₂ on fract; gradually Δ's into plg dacite to latite porph w minor ep - ksp ± Py; 1-3% disc Py				
582	680 1/2	Diorite porph as before; common ep - ksp; minor Qtz veining & only tr MoS ₂				

Drill Hole Record



Property	Ax#	District	SIMILKAMEEN M.D.	Hole No.	71-3	LENGTH	653'
Commenced	1971	Location	ADIT ZONE	Tests at		Hor. Comp.	
Completed	1971	Core Size		Corr. Dip	-60°	Vert. Comp.	
Co-ordinates	47,420N / 25330E	Elev.	3420'	True Brg.	270°	Logged by	DTM
Objective		Claim	PIP-2	% Recov.		Date	JUNE 11 / 82

Coreage		Description	Sample No.	Analysis	
From	To				
37-	56	Cream to grey, massive, fine gr. dacite to rhyolite - dyke but could be tuff; Ep ± qtz veining cuts all rocks, all angles; <1% py w tr. of Cpy w ep veins/fract; wh pervasive ep rest of plag xtds; tr. vein chlorite; minor calcite on fract.			
56-	117	MISSING			
117-	197 1/2	Re Fine gr. andesite(?), badly ground core; well leached; no limonite stained; may be very leached micromonophite; 5-10% diss Py; strongly pervasively replaced by epidote w minor diss Py throughout; Ep ↑ w depth; siliceous from 170-180 w 2-3% diss Py; vein/fract ep; tr. of Cpy; Py ↑ from <1% to >2-3% by 170'; core badly fract-broken @ 169-171 - fault?? Rk gradually seems to be more silty-argillite w diss diss Py ≈ (180-190') w some silty & some argillaceous units; dacitic component; unit has ↑ appearance of hornfelsed sands/tuffs w depth; little ep. from 180'; minor Py-ep veins after 180'			
197 1/2-	249	Missing			
249-	284	Fine gr. siltstones; dark grey, locally argillaceous w faint bedding (?) @ 45° to core; minor dk green chlorite on fract; minor fract & clst ep; diss/fract Py ≈ 3% w diss Py fairly coarse; well fract/alt/ hornfelsed silty argillites;			

Drill Hole Record



Sheet 203

Property	District	Hole No.	71-3	Length	653'
Commenced	Location	Tests at		Hor. Comp.	
Completed	Core Size	Corr. Dip		Vert. Comp.	
Co-ordinates	Elev.	True Brg.		Logged by	DTM
Objective	Claim	% Recov.		Date	June 11/82 DTM

Footage From To		Description	Sample No.	Analysis
284-288		Highly altered andesitic tuff (strongly saucerized) or possibly Pre-ore dyke; Fract & well developed pervasive ep.		
288-304		As 284-288; 3-5% crse, diss Py - euhedral grains.		
304-404		Fine gr. disint to massive andesite tuffs; <1% diss Py w tr. Lpy; V. minor ep on fract ± Py. Most fract are clean/dry; only minor calcite; - rks locally resemble "waches" - brittle - hornfelsed; - by 350' rks is fine gr. massive grey, siliceous siltstone w numerous random calcite filled fract ≤ 1mm across; V. minor vein ep & <<1% Py - dk green chlorite on fract around 368". - gradually *s back to fine gr. siltstones / waches / tuffs that appear to be fine gr. & bedded @ 45° to core @ 384-385; thin, few argillaceous beds; Ep veining w minor Qtz & / or Py more common after 385';		
404-422 1/2		Missing.		
422 1/2-441		Massive, faintly bedded andesitic tuffs & / or reworked tuffs to waches or siltstones; rel. siliceous @ 433-434 & brecciated by ep-calcite fract & @ 439- (441); Rk is more broken & fract from 422 1/2; <<1% Py but slightly more in siliceous portions.		
441-459		Missing		

Drill Hole Record



Property	District	Hole No. 71-3	Length 653'
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates	Elev.	True Brg.	Logged by DTM
Objective	Claim	% Recov.	Date June 11/82

Footage From To	Description	Sample No.	Analysis	
459-509	Massive, fine gr. siliceous siltstone, interbedded w andesitic tuff / siltstones & wackes (after 465'); < 1% Py on fract, cut by thin calcite fract w leached selvages; sharp bedding contacts ≈ 35°-45° to core between siliceous siltstones / wackes, andesitic tuffs; calcite fract all angles throughout; - < 1% ^{sp} Py + ep-Py ± tr. Cpy veins / fract common after 479' - veins / fract 45° to core & X-cut bedding;			
509-540 1/2	Missing.			
540 1/2-559	Same fine gr. wackes / siltstones w bedding @ 45° to core; fract are often dry;			
559-595	Missing.			
595-628 1/2	As above; argillaceous beds are 30-100 cm thick; most fract lined w calcite, not ep; tr. Py; minor qty veining up to 1 1/2 cm @ 45°-50° after 618'; minor ep - calcite - cpy - magnetite veinlet;			
628 1/2-644	Missing.			
644-653 END.	Same bedded wackes / andesitic tuffs; hairline ep - calcite fract present; wholly dis Cpy - Py (< 1%) occurs in wk ep. replaced groundmass; some Py - Cpy on fract; - some indication indication of improvement w depth.			

Drill Hole Record



Property	AxE	District	SIMILKAMEEN M.D.	Hole No.	71-6	LENGTH	617'
Commenced	1971	Location	ADIT ZONE	Tests at		Hor. Comp.	
Completed	1971	Core Size	NQ	Corr. Dip	-45°	Vert. Comp.	
Co-ordinates	4800N / 2A, 250 E	Elev.	3675'	True Brg.	250°	Logged by	DTM
Objective		Claim	AxE 3000	% Recov.		Date	MAR 82

Footage		Description	Sample No.	Analysis		
From	To					
46-64		Strongly altered diorite or monzonite ?? ; mafic chloritized; local 10-15cm leached, Fe stained zones; some w intense leaching so that only Fe oxides remain; Goethite and Mn common on fract; minor gypsum veining & selenite Ktls on fract from \approx 53'; Rk med fract/brecciated; tr. mal; wkly magnetic;				
64-164 1/2		Missing				
164 1/2-183 1/2		leached porph monz w well displayed porph texture w sericite/epx repl all plag Ktls; finely dis Py 2-5% throughout; minor Qtz (?) veining; core highly grind w only 30-40% recovery.				
183 1/2-224		dark coloured, med gr., Abld monz porph to diorite w 5-10% dis magnetite & \leq 1% Py; strongly broken; has indistinct Ktls w a few blocks Plag Ktls; Ksp and mass;				
224-251 1/2		Missing				
251 1/2-268 1/2		As 164 1/2-183 1/2 - gradually Δ 's to like 183 1/2-224 - \approx less leached, weak/non magnetic w 2-3% dis Py repl. mafic; minor calcite on veins; also competent w minor-med fract; \approx 90% core recovery.				
268 1/2-285		Missing				
285-351 1/2		As 251 1/2-268 1/2; 2-3% dis Py; gypsum veins to 5mm @ 10° & 45° to core; Abld's present; less altered; plags wkly sericitized; med magnetic; TR Ksp & \leq 2% Py				

Drill Hole Record



Property	District	Hole No.	71-6
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates	Elev.	True Brg.	Logged by
Objective	Claim	% Recov.	Date

Footage From To	Description	Sample No.	Analysis		
	disc from 302-325;				
351 1/2 - 357 1/2	Missing				
357 1/2 - 376	As 285-351 1/2; groundmass has easily visible, fine disc sericite ± chl ± bio + Py (≈ 1-2%) ; occ plag Kfs - core strongly fract. from 372-376				
376 - 452 1/2					
452 1/2 - 469	As above, no relict plags; gypsum veins to 8mm // to core & @ 45-90° to core; common; 3-5% disc Py; Rk may be part of altered unit unmined west of Adit low;				
469 - 490	Missing				
490 - 508 1/2	As 452 1/2 - 469 w only 1-2% disc Py; pink zeolite(?); @ 506-506 1/2 find disc Py ≈ 5-8% of disc Lpy w 1-3% - seems to be EJ km thin, 1-5mm zones ⊥ to core & occurs w gypsum;				
508 1/2 - 603 1/2	Missing				
603 1/2 - 617	As 490-508 1/2 to 608; then unit is darker grey to black w relict mafics; pyrox Kfs to 4-5mm (1-3%) minor chloritoid chldls(?); strongly magnetic w ≤ 15% disc mag w tr. disc Lpy; 1-3% disc Py; gypsum veins cut all.				

Drill Hole Record



Property	AXE	District	SIMILKAMEEN M.D.	Hole No.	71-7	Length	656'
Commenced	1971	Location	ADIT - MID ZONE	Tests at		Hor. Comp.	
Completed	1971	Core Size	NQ	Corr. Dip	-60°	Vert. Comp.	
Co-ordinates	48,300 N / 25,100 E	Elev.	3120	True Brg.	270°	Logged by	DTM.
Objective		Claim	AXE 3000	% Recov.		Date	June 12/82

Coreage from	To	Description	Sample No.	Analysis
0 -	186	Missing		
186 -	207	Strongly altered, mottled, pervasively epidotized diorite to quartz-monzonite? - thin streaks of Ksp set in light-med green groundmass; zones w corroded, relic plag xls in pink groundmass; 2-3% finely dis Py primarily w pervasive ep repl; badly ground core, esp from 187-194 ↔ fault gouge		
207 -	209 1/2	dacite to rhyolite dyke; barren; cut by random calcite vein / fract.		
209 1/2 -	341 1/2	As 186-207; minor chlorite on fract; entire rck seems foliated as in 186-207 (shearing - faulting?); minor pink (red) + white gypsum on fract from 212'; Py ↑ to ≈ 5% same as 2-3 cm wide clots; minor hematite on fract. small qtz stringers (upto 3cm x 1/2 cm) w assoc. py ± lpy; ep @ 233' - 263' - 276' ≈ 10-20% Py; some assoc magnetite - Py clots up to 3cm; - very siliceous from 274-277 - qtz veining w Py; tr. sericite + interstitial chl. assoc. w Py development. - chl gets common & dk green from 281' - spms unit could be more basic (altered diorite?); strongly broken down to clays. - 3-5% dis + fract Py after 276' w common calcite fract; - by 300', ghost plag xls are gone & gypsum veins are more common (1/20 cm); - rks magnetite; Py - lpy vein @ 316-316 1/2 cut by gypsum vein; pervasively chloritized - epidotized ± sericite; fault gouge @ 309 1/2 - 312 1/2		

Drill Hole record



Property	District	Hole No.	71-7
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates	Elev.	True Brg.	Logged by
Objective	Claim	% Recov.	Date

Footage		Description	Sample No.	Analysis	
From	To				
341½	361	Missing			
361	365	Massive, siliceous, aphanitic, light grey, chloritized dyke(?); barren, fract'd cut by calcite;			
365	400	As 209½ - 341½; relict plag phenos again; 1-3% diss + wk vein Py; rks fract - crumbly;			
400	437½	Missing			
437½	460	Mottled, altered med. gr. diorite to monzonite; relict Rbld pseudomorphs & minor pink tinge in green, chloritized - epidotized groundmass; calcite / calcite fract; minor gypsum & qtz veins (438½ @ 75° to core); 3-7% Py, often after mafics; minor stringers of qtz vein Py;			
460	485	fine gr., grey dacite - rhyolite dyke to fine gr. mafic / magnetite throughout. Tr. of finely diss Py; - has "flowered" bands of subsequent brecciation that's annealed. some clay - sericite alteration; cut by calcite veins / fract; - rks fract ≈ 45° to core - very crumbly + broken. @ 477-479 is well developed "streaming (flowered banding?)" of assoc "almond" (lensoidal) shaped blebs that appear to be rhyolite porph or monz porph. - likely represents cataclastic foliation related to faulting.			
485	490	As 437½ - 460 w "foliation" of 460-485; mottled pink groundmass;			

Drill Hole Record



Property	District	Hole No.	71-7
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates	Elev.	True Brg.	Logged by
Objective	Claim	% Recov.	Date

Coreage from To		Description	Sample No.	Analysis
		5-7% dias + stringer Py; slickensides @ 488 1/2		
490 - 492		As 460-485 but strongly fractured / weathered @ 10-15° to core - ^{part of} fault zone		
492 - 507		MISSING		
507 - 508		As 490-492; rth looks like flow banded dacite that's highly fract / weathered @ 15° to core; No to only tr. sulphide; mylonite zone - same as above?		
508 - 523 1/2		As above but more mafic, highly banded w/ almond shaped white frags & perthite monzonite looking frags; contains 3-5% Py // to foliation, distortion fract; tr. clay w/ gtz veining // to foliation; minor pink gypsum;		
523 1/2 - 545		MISSING		
545 - 561		As 508-523 1/2; varies from intermed to felsic; clastic texture & 3% dias Py; clastic _{text.} - mylonite zone.		
561 - 595		MISSING		
595 - 611		Considerably less foliated. Massive intermed, med gr. diorite - andesite (??) w/ all mafics chloritized + mostly leached out; strongly fract w/ light green fract cbl.; = 1-3% Py, ↓ w/ some veins Py;		

Drill Hole record



Property	AXE	District	SIMILKAMEEN M.D.	Hole No.	71-9	LENGTH	560
Commenced	1971	Location	SOUTH ZONE	Tests at		Hor. Comp.	
Completed	1971	Core Size	NQ	Corr. Dip	-45	Vert. Comp.	
Co-ordinates	44 650 N / 25 840 E	Elev.	4100	True Brg.	270°	Logged by	DTM
Objective		Claim	AXE 3000	% Recov.		Date	APRIL 1982

Footage From To		Description	Sample No.	Analysis
33-71		Fine gr, bedded, feldsparite ± dacite tuffs; strong fract; graded bedding; chlorite formed on some bedding planes; pervasive ep repl.; ep on fract & irregular veins / & calcite on some fract; dacitic units have more diso Py (?); minor qtz veining to 1-3 mm; 2nd. Ksp (minor) w ep; from 33-40 = \approx < 1% Py; 40-46 = 1% & 46-51 = < 1%; 51-56 = 1-3%, 56-70 = 3-5% w vein fract + dis sulphide here; More qtz & chl; rls brecciated & mottled; some cream portions stain as Ksp rich; Tr. of smeared MoS ₂ @ 71'		
71-77		As above but more brecciated w strong, pervasive ep. replacement, more common thin qtz veins / fract & obvious secondary Ksp intrud w ep. \approx 1-2% Py.		
77-85		Fine gr. tuffs, highly altered, mottled, secondary Ksp & dk green chl + lots of calcite - lacks ep; some qtz; \approx 1-3% Py.		
85-88		As 71-77.		
88-102.5		As 77-85 with minor qtz veining; med magnetic		
102 1/2-121		Missing.		
121-129		As 71-77; py-ep stringers // to x-culturing bedding; py-ep on fract & dis throughout repl. ep; 2ndary Ksp-ep brecciate rls; - cut by calcite; here on fract; 3-5% py w minor Coy, tuffs.		

Drill Hole Record



Property	District	Hole No.	71-9
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates	Elev.	True Brg.	Logged by
Objective	Claim	% Recov.	Date

Footage From To	Description	Sample No.	Analysis
129 - 134.5	As above w less ep; minor chlorite + 2-3% Py.		
134 1/2 - 135 1/2	Fine gr. to aphanitic, black basalt dyke.		
135 1/2 - 166	Fine - med gr, massive tuffe; 5% plag phenos(?); no sulphide;		
166 - 170	intensely brecciated, quartz tuffe cut by dark green, chlorite lined fractures; later calcite & minor qtz veins up to 8mm @ 80° to core; 1% sulphide.		
170 - 192	Andesitic tuffe; pervasiv ep - chl - cal w chl on fract often w hematite; strong fract / brecciation @ 176 - 179 w felsite / hyp intruding - get mag. w ep - ksp - qtz - cal - py veins.		
192 - 206	As above but Py ≈ 5-7% & start to more pervasiv ep; py ↓ to 1-3% by 205; Qtz (rare) veins to 3cm across contain Py;		
206 - 331	Missing		
331 - 374	Massive Andesite Ktl tuffe w 40-60%, 1mm euhedral chld xtd set in plag groundmass; vein, fracture & pervasiv ep repl; calcite fract; faint bedding @ 10° to core; 1-3% Py throughout; TR Cpy		
374 - 409 1/2	MISSING		
409 1/2 - 431	As 331-374; lighter grey coloured; strongly fract; lots of calcite clots!		

Drill Hole Record



Property	District	Hole No.	71-9
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates	Elev.	True Brg.	Logged by
Objective	Claim	% Recov.	Date

Footage From To	Description	Sample No.	Analysis
	fract fillings; minor ep; <1% Py; minor Ksp (2ndary).		
431- 466½	MISSING		
466½- 473	As 409½ - 431; more chloritization;		
473-509	Mottled, epidotized - chloritized - calcified monz porph; Plag Kfs in part gone to green sericite; 2nd. Ksp-ep veining evident; calcite frags to 1.5cm across; minor qtz veining - ep - ksp. w sulphide appears to brecciate Rk; up to 1-2% Py w tr. Cpy mainly on fract; nod-whly mag; highly fract; core grad from 479-487; from ≈ 489-503 only ≈ 40% of core remaining.		
509-563	brecciated / gneissic contact between monz porph & plag-aug. basalt w 40-50%, 1-2mm euhedral augites, 10-15%, 1-2mm euhedral plag laths & 40% interstitial Ksp; also Ksp on hairline fract. - aug porph is cut by numerous hairline fract lined w ep ± ksp; some calcite & py, usually @ 60-90° to core & to core; alt. decreases as does fract away from contact w Monz porph; Rk less fract & more competent w depth; more pervasive ep alt; usually extending out from fract; often in clots; ≈ 1% fract Py w tr Cpy w ep - ksp fract filling; some fract. magnetite. - Rk varies from labile - V. strongly magnetic esp around 534'; by 538' Py <1%; 551-560 core missing; 547-551 & 560-563 strong ep - mag flooding w ½-1% Cpy * 1-2% Py - often to core; 2-3mm wide calcite veins that cut core @ 30°		

Drill Hole Record



Property	AXE	District	SIMILKAMEEN, M.D.	Hole No.	72-6	LENGTH	502'
Commenced	1972	Location	WEST ZONE	Tests at		Hor. Comp.	
Completed	1972	Core Size	NQ	Corr. Dip	-45°	Vert. Comp.	
Co-ordinates	49,400N ; 20,190E	Elev.	4620'	True Brg.	090°	Logged by	DTM
Objective		Claim	AXE 6000	% Recov.		Date	APRIL 7/82

Footage From To	Description	Sample No.	Analysis	
0 - 324	MISSING			
324 - 334	Massive andesite & latite xtl-lithic tuffs; 1-2mm rounded frags of plag xtls; A's from dark, fine gr to light grey, plag rich, med gr; tr. Py; cut by numerous fract lined w ep-all angles; minor qtz veins; purple calcite flourite - qtz vein up to 2cm across w finely dis galena, + Py ± tr. Coy; minor dk green fract chl + calcite fract.			
334 - 355½	MISSING			
355½ - 365	Fine-med gr., purple hbl-pyrox devrite w 20%, 2mm subhedral-subhedral mafics, 15-20%, 1-2mm plag xtls go to clay-sericite set in fine gr plag groundmass; calcite veins to 2cm cut cov @ fairly shallow angles between 357-364.			
365 - 381	Polymictic volc. arenite - angular frags to 2cm; intensely fract & altered w ep; possible 2ndary K-sp. in alt. as well; tr. of dis Coy + Py; Rk ground, fract, crumbly; ↑ w ep vein as an outer lining (<1mm)			
381 - 385	Similar to 356.5-365 but permineralized; strong fract; some calcite fract, chloritized mafics; tr Coy w ep; staining suggests Rk is monzonite w 40% plag, 20% mafic & 35-40% interstitial Ksp.			
385 - 400	Massive andesite xtl ± lithic tuff; some coarse gr masses, polymictic, volc			

Drill Hole Record



Property	District	Hole No.	72-6
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates	Elev.	True Brg.	Logged by
Objective	Claim	% Recov.	Date

Coreage From To		Description	Sample No.	Analysis
		Subrounded; fract + pervasiv ep alt; minor 2nd. Ksp w ep; cut by calcite fract; alt more intense than above; - fract, vein + diss w ep Py-Cpy x 190; Rk mod-strongly fract; minor dk green - light green chlorite;		
400 - 417		Missing		
417 - 430		Xtl - ± lithic tuff - massive andesite tuff; ep-hsp veining w clots/ stringers of diss Cpy & Py (± 1-2% max); clots of ep w sulphides; Cpy & Py.		
430 - 437		Fine gr. porph andesite dyke w 5-8% chld xtls, 1-5 mm & 10% plag xtls, 1-2 mm Postore; plags resemble amygdales; abundant fine gr. sericite;		
437 - 450		As 356.5 - 365 but pervasiv ep w some Ksp alt; Tr. of py on small shear @ 442, otherwise no visible sulphides;		
450 - 469		As 417 - 430		
469 - 472		Fine gr. light green - buff, plag ± hsp porphyritic dyke - rhyolite.		
472 - 502		As 417 - 43 med to drk grey, tuffs; many 1-4 mm lithic frags.		

Drill Hole record



Property	AXE	District	SIMILKAMEEN M.D.	Hole No.	72-9.	LENGTH	294'
Commenced	1972	Location	WEST ZONE	Tests at		Hor. Comp.	
Completed	1972	Core Size	NQ	Corr. Dip	-45°	Vert. Comp.	
Co-ordinates	48 575N / 2050E	Elev.	4580	True Brg.	090°	Logged by	DTM
Objective		Claim	AXE 6000	% Recov.		Date	APRIL 5 / 82

Elevation		Description	Sample No.	Analysis	
From	To				
119	138	Chloritized, sericitized (plag xtls - light green) med-crse gr. diorite to pyroxene-plag monzonite porphyry; 15-20% mafics; minor black xenoliths; trachytus; w 2-4mm euhedral pyroxene xtls, 1-2mm plag & some 16-spars groundmass; minor Fe stain on fract which are common; some fract. malachite; ep abundant @ 134-138			
138	142	Fine gr, black, pyroxene (10%, 2mm) analcite (?) - 5% rounded white blebs ≤ .5mm in fine gr. groundmass - andesite dyke. No visible sulphide or salt.			
142	162	As 119-138; no sulphide; resembles crse gr. tuff / flow; core badly broken; minor qtz & / or albite veining; minor chl & / or ep. on fract; occ. fract w Py;			
162	178	Light grey, med gr. mottled diorite; mafic frags (xenoliths?) up to 5mm across; chloritized mafics 8-10%; strong fract w minor ep & / or calcite common on fract; dark green fract chl. tr. Py w ep & / or cal & / or ep on fract & as diss grains repl. mafics? ≤ 1%			
178	179	V. Fresh looking, dk grey basalt - andesite dykes w 8-10%, ≤ 1mm white blebs (analcite?); some may be amygdalae; minor ep - calcite on infrequent fract; 3-5% finely diss Py cubes.			

Drill Hole Record



Property	District	Hole No.	72-9
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates	Elev.	True Brg.	Logged by
Objective	Claim	% Recov.	Date

Coreage from	To	Description	Sample No.	Analysis
179-180		MISSING		
181-190		Fine gr. andesite dyke. as 178-179; cut by calcite fract / w minor fract ep; looks fresh.		
190-196		Similar to 142-162; finer gr. w 1-2mm pyroxenes only; badly broken / ground core; more common esp. vein / fract & calcite fract.; Tr. Py. Mammé tuffs? andir;		
196-202 1/2		As 162-178 w some finer gr. tuffs(?) - darker coloured; fract more intense & calcite - esp. V. common; calc-ep veins up to 4mm across; all angles; tr. Py - grey		
202 1/2 - 218		As 178-179; very porphyritic w up to 15% analcite(?) xtls; < 5% pltd xtls; small splashes (< 2mm) of hematite; mod. magnetic; ep / calc on fract but not as common as in country rks (host); only tr. sulphide.		
218 - 233		Highly fract (locally ground); polymictic frags - up to 1-2cm; felsic + basaltic clasts; lots of wacke groundmass; strong esp. fracture filling & veining; occ. w calcite; V. minor (<< 1% P _v).		
233-237		MISSING		
237-245		Polymictic fragmental w subrounded volc frags (basalt, latite) all brecciated & cut by ep flooding / veinlets / fract; disc / vein / fract Py + lesser sp very common w ep (≈ 1-2% Sulphide)		

Drill Hole Record



Sheet 1 of 4

Property	AXE	District	SIMILKAMEEN M.D.	Hole No.	72-13	LENGTH	587'
Commenced	1972	Location	SOUTH ZONE	Tests at		Hor. Comp.	
Completed	1972	Core Size	NQ	Corr. Dip	-45°	Vert. Comp.	
Co-ordinates	44 630'N / 23970'E	Elev.	4350'	True Brg.	270°	Logged by	DTM
Objective		Claim	AXE 3000	% Recov.		Date	Sept 1982

Footage From To	Description	Sample No.	Analysis
0-52 1/2	Fine gr. grey andesite, hairline calcite fract; Narrow zones (≤ 30 cm) of strongly albited equivalent; minor chlorite ^(frag) & epidote; tr. mal & diss Cpy in albited portions + minor Py; Local strong epidotization (≤ 1 m)		
52 1/2 - 72	MISSING		
72-126 1/2	Massive, aphanitic, buff to creamy-green dacite(?); Xenoliths of dark grey andesite (35%); strong calcite fract; locally strong ep alt; @ 75-76 is med gr. mafic syenite dyke. tr. Cpy & $\ll 1\%$ Py; (except w epidote where diss + clotted sulphide \uparrow . w \downarrow rls is light green & appears to be strongly albited; Py w minor Cpy veins to 8mm wide @ 117-118 & 122.5 - 123.5		
126 1/2 - 144	"spotted" leucocratic, albited, hybrid-like unit of diorite & brecciated dacite tuffs; w 1mm mafic minerals in intrusive either light green (sericite) or dark green (chlorite); some dk green chlorite on fract; minor ep + ^{vein} veining usually ubiquitous; brecciated w calc fract; $\ll 1\%$ stringer-veinlet py & Cpy; tr. of MoS ₂ w Cpy		
144-195	Med. gr. sparse syenite to monzonite w 25% euhedral Abld \pm some augite Xtls, w 1-2mm, set in fine gr. plag Xtl - interstitial Ksp groundmass (50-60%); Fract @ 5-15° from // edge of core cut the rls. There are mainly ep + calcite + albite + minor Ksp. Py (1-3%) is on fract or as stringers. Localized development of chlorite on fract + replacing mafic; Some veining @ 90° to core. Unit has slightly darker zones, likely		



Property	District	Hole No.	72-13
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates	Elev.	True Brg.	Logged by
Objective	Claim	% Recov.	Date

Coreage from To		Description	Sample No.	Analysis
		due to wh, porous ep. alt. of gndmass; alt. more intense from 159' w db chl abundant, more wh fract, & albitization; strongly magnetic before 159'; <<1% sulphide but hairline fract of ep ± ksp (minor) ± albite ± chl have Lpy + Py; Fract all angles but av. 30° to core; "migmatite" or "hybridized" banding, esp @ 190-192 where crse amphs + ep + pink ksp occur, occ. t-cutting fines gr. intrusive phase; Tr. of Lpy occur along fract w ep veins which in turn are lined by crse (2-3mm) amphs;		
195-212		Med gr monzonite - mafic syenite as above; albitized gndmass; rare albite veins 6mm wide // to core; Minor fract + diss Py (<<1%)		
212-282 1/2		As above; @ 221 more med. gr. syenite to emerge out by slightly crse assemblage (syenite) of amp, ksp, ep. Zoned veins @ 30-75° to core have outer rim of crse (<3mm) hld, an inner rim of ksp up to 4mm wide & often enclosing ep & an inner core of albite; occ. clots of ep up to 1.5cm across. Py - Lpy <<1% but do occur on fract; @ 224, 3-4cm ksp - calcite vein w visible MoS ₂ ; calcite is crse - x-line; staining indicates: 25-30% 1-3mm hld + augite, 40-45% fine gr. ksp gndmass; 10% fine plag xtls. to 25-30% mafic; 30% interstit ksp, 30-35 Plag xtls; - more albite "fract flooding" & "perverse ep" w depth;		
282 1/2 - 299.5		strongly sheared, chl - calcite rich ^{perth} monzonite; relict porph texture; ksp veining + crse amphs; two calcite veins to 6mm @ steep angles to core; <<1% Py; porv. ep.		

Drill Hole Record



Property	District	Hole No.	72-13
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Coordinates	Elev.	True Brg.	Logged by
Objective	Claim	% Recov.	Date

Elevation From To	Description	Sample No.	Analysis	
299.5 - 350.5	As above w less shearing but still abundant chlorite; perovskite ep (gneissic appearance); Ksp fract, Ksp repl. groundmass, albitization; strong fracturing; strongly magnetic;			
350.5 - 353	As above ?? core badly ground & left only as pebbles.			
353 - 388	As 299.5 - 350.5 w lesser amt of dk green chl. & more 'granitic' texture. Fine diss & stringer (minor) controlled P ₄ (<1%) & Ksp (1-2%) throughout; dk crumbly & locally more sheared.			
388 - 476	As above, possibly more intense albitization; good granitic texture; resembles approx-hbl'diorite cut by zoned veins w coarse hbl'd-Ksp-borders & albite core; local (4173) magnetite veins (<4 MM) assoc w Ksp veins. -sheared + chloritized @ 448-449; 451-452 1/2; intrusive brecciation @ 454-458 w Ksp clasts in an ep groundmass; some chlorite clasts;			
476 - 495	Similar to above but has less mafics (10% fine gr mafics) & abundant 2MM phenocrysts, partly rounded plag xtls; definite granitic texture; mod perovskite ep; Vein of P ₄ , 3MM cuts core @ 487.8 @ 35°; P ₄ ≈ .5% as diss grains, minor vein / fract filling			
495 - 514	Missing			
514 - 532	As 476-495; P ₄ + Ksp only on fract & occ. as stringers; some druse green fract chlorite;			

Drill Hole Record



Property	AXE	District	SIMILKAMEEN M.D.	Hole No.	72-15	LENGTH	250'
Commenced	1972	Location	SOUTH ZONE	Tests at		Hor. Comp.	
Completed	1972	Core Size	NQ.	Corr. Dip	-45°	Vert. Comp.	
Co-ordinates	45,750N / 24,335E	Elev.	4000	True Brg.	135°	Logged by	DTM
Objective		Claim	AXE 3000	% Recov.		Date	June 15/82

Footage From To	Description	Sample No.	Analysis
0 - 152	Missing		
152 - 196	Fine gr. basalt; no augite phenos; finely disse Py occurs throughout but common esp. fract-veinlet Py is most prevalent ($\approx 1/2\%$); minor limonite on fract; mod magnetic; esp veinlets / fract w tr. of Ksp occur; - minor calcite vein / fract fillings; $\approx 177-180'$ tr. of Ksp w Py on sulphide veins or in epidote-sulphide veins + clots; Malachite occurs on fracture surfaces in this interval		
196 - 198	Same(?); very fine grained (more chloritized); looks argillaceous & has a qtz vein 2mm @ 50' to core @ 198'		
198 - 205	Fine gr. basalt; wegs from leached augite or Py; limonite on fract; no sulphide; strongly ground - clays @ 203-205'; - fault zone?		
205 - 220	Fine gr., altered basalt - brecciated.		
220 - 224	More porous to porous rhyolite / dacite; light grey, siliceous w pink tinge in groundmass & 10% "ghost" plag phenos.		
224 - 245	As 152-196 - resembles an andesite; fractured, brecciated & has epidote filled fractures w Py \pm Ksp; $\ll 1\%$ sulphide.		
245 - 250	As 220-224' - end.		

Drill Hole Record



Property	AXE	District	SIMILKAMEEN M.D.	Hole No.	72-16	LENGTH	500
Commenced	1972	Location	SOUTH ZONE	Tests at		Hor. Comp.	
Completed	1972	Core Size	NQ	Corr. Dip	-45°	Vert. Comp.	
Co-ordinates	45 840 N / 23900 E	Elev.	4370'	True Brg.	270°	Logged by	DTM
Objective		Claim	AXE 3000	% Recov.		Date	APRIL 7/72

Footage		Description	Sample No.	Analysis	
From	To				
71	89	Augite sph basalt - andesite. mod. pervasiv + fract + vein ep; fract calcite; Qtz vein & 2-3% Py in veins / fract + dis w epidote; calcite fract brecciated; tr. diss Coy w ep.			
89	106	MISSING			
106	124	As 71-89 but << 1% Py; minor Ksp. on veins			
124	130	fine gr. grey massive andesite cut by numerous calcite lined fract; no sulphide;			
130	159 1/2	As 106-124; little sulphide; minor Ksp; veins / fract Py occ. w ep - Ksp; slight ↑ to 1-2% Py w depth. 153-156' x 6-8% Py; Qtz veins common w diss Py - Coy ep ep ± chl;			
159 1/2	177	MISSING			
177	193	As 130-159 1/2; core very broken; 1-2% ± diss - fract Py			
193	210	MISSING			
210	214	As 177-193'; secondary Ksp - ep is cut by Qtz vein.			
214	225 1/2	Medium grained, partly porphyritic, Qtz veined diorite - monzodiorite; - Pyrite filled veins / fractures; diss Py w ep. repl. mafics ≈ ≤ 1%			

Drill Hole record



Property	District	Hole No.	72-16
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates	Elev.	True Brg.	Logged by DTM
Objective	Claim	% Recov.	Date April 7/82

Footage From To	Description	Sample No.	Analysis
	- slickensided surfaces have minor, smeared MoS_2 ; X-thin Py in Qtz veins;		
225 1/2 - 263	MISSING		
263 - 281	As 177-193 $\bar{w} \leq 1\%$ py; broken core from 280-281; Qtz veins common (1/m); locally brecciated.		
281 - 297 1/2	MISSING		
297 1/2 - 313	Augite porphyry basalt-andesite; Common qtz veining (5-6/m) from 298-306 commonly @ 45-90° to core; diss Py + Cpy in Qtz, minor vein ep-Ksp alt; $\approx 1-2\%$ fract \bar{w} common diss Cpy; $\leq 1\%$ Py;		
313 - 349	andesite \pm hblt-xlb tuffs; faint bedding; granular; less common qtz veins @ 45-90° up to 1/16 cm wide; minor ep &/or Ksp along fract \bar{w} minor magnetite on fract, esp. after 327'. - diss Cpy throughout, $\approx .5-1\%$ \bar{w} .5-1% Py; @ 327-330, 2-3% diss Cpy & some fract Cpy; diss Cpy occurs in ep respl. plag groundmass. - Ksp \pm ep fract more common after 337' still $\bar{w} \approx .5\%$ diss Cpy & .5-1% diss/vein + fract Py - often Py veins + qtz veins join up.		
349 - 420	MISSING.		

Drill Hole Record



Property	AXE	District	SIMILKAMEEN M.D.	Hole No.	72-17	LENGTH	318
Commenced	1972	Location	Adit Zone.	Tests at		Hor. Comp.	
Completed	1972	Core Size	NQ	Corr. Dip	-50°	Vert. Comp.	
Co-ordinates	48,480'N / 24,230'E	Elev.	3920'	True Brg.	285°	Logged by	DTM.
Objective		Claim	AXE 3000	% Recov.		Date	APRIL 82

Footage From To	Description	Sample No.	Analysis	
0-5	0-5 O.B.			
5-39	Missing			
39-57	Many porph; $\approx 50\%$ recovery - lots of grinding; goethite - often dendritic common; 1mm anhydrite / gypsum veins; \pm mal. @ 56'; plag xls replaced by clay-sericite.			
57-83	Many porph; strongly brecciated, leached, limonite stained; selenite xls growing throughout vuggy between white leach mang; no sulphide at top, increasing to 5-7% by 75'; \pm of relict mafic from 75';			
83-105	MISSING			
105-143	As 57-83; partly (w/ mod) sericitized; 8-10% P ₄ - badly broken core. - clay pseudomorphs.			
143-152	MISSING			
152-176 1/2	As 57-83 without limonite; $\approx 55\%$ recovery; P ₄ \approx 7-10% diss;			
176 1/2-182	Missing.			
182-217	As 152-176 1/2; limonite fract @ 182-196'; chlorite xls; minor fract selenite; goethite on some fract; \pm mal. P ₄ \downarrow to $\approx 1\%$ where relict mafic exist; vuggy @ 214 1/2-218' - fault zone?;			

Drill Hole Record



Sheet 2 of 2

Property	District	Hole No. 72-17	LENGTH 318'
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates	Elev.	True Brg.	Logged by JTM.
Objective	Claim	% Recov.	Date APRIL 182.

Footage		Description	Sample No.	Analysis	
From	To				
217-	236	As 182-217 w/out mafics			
236-	242	Fine gr. felsic dacite - (micro granodiorite) dyke; finely disseminated magnetite - need to strongly magnetic; x 1-3% feathery abld laths to 1.3 cm; Post Ore dyke;			
242-	(252)	Same leached micromonz porph with relict phenos set in fine gr. groundmass; 3-5% disse Py; @ 250-252 x 3% disse Cr; - slightly more relict mafics than before.			
252-	276	MISSING locally			
276-	318	As 242-252(?) strong gypsum veining; 3-5% Py on fract and as disse grains. Rk seems to be more equigranular, altered diorite & not micromonz porph as above; Py generally < 1% from 276'			

Drill Hole Record



Property	AXE	District	SIMILKAMEEN M.D.	Hole No.	72-18	LENGTH	406
Commenced	1972	Location	ADIT ZONE	Tests at		Hor. Comp.	
Completed	1972.	Core Size	NQ	Corr. Dip	-40°	Vert. Comp.	
Co-ordinates	48,680'N / 24,250'E	Elev. of AXE	3000	True Brg.	285°	Logged by	DTM
Objective		Claim	3920'	% Recov.		Date	APRIL/82

Footage from	To	Description	Sample No.	Analysis
0-7		O.B.		
7-29		MISSING		
29-61		Chloritized ^{diorite} - monzodiorite; 50-60% plagioclase 10-15% Ksp, ^(albitized) rest highly leached mafics; Py replacing ^{10%} hbl; lacks crowded texture of Adit zone (micro-monzonite persch.; limonite on fract; 60-65% recovery - core very crumbly; chl-actinolite veins ^w ≈ 1.5-2mm (ea side) Ksp salvaged; minor Qtz veining @ 1.5cm wide; magnetic; "spotted" appearance due to Mn after mafics & on fractures.		
69-87		MISSING		
87-91		As above. Small blocks of biotite & Ksp in groundmass; Ksp av. 30-40% w Qtz veins upto 3mm @ all angles but mainly <20°		
91-112.5		leached, ^{porphyritic} monzodiorite - micromonzonite; minor selenite on fract; Fe stain from 91-105 1/2; diss py ≈ 2-3%; +1. MoS ₂ ; Badly broken from 105 1/2 - 112 1/2		
112 1/2 - 131		MISSING		
131-152		Chloritized equivalent of 91-112 1/2; leached-albitized; sericite replaced plagioclase; diss Ksp - Py ≤ 1% throughout groundmass + after mafics; ≈ 70% core recovery		
152-346		Missing		
346-380		Strongly leached equivalent of 131-152; 10-15% Py after mafics; clay from 368-380		

APPENDIX "C"

DRILL LOGS FOR 1982 DRILL HOLES



Scale

Colour Plot & Dip

Drill Hole Record

Property	AXE	District	Similkameen M.D.	Hole No.	82-1
Commenced	September 18/82	Location	Adit Zone	Tests at	Hor. Comp. 265ft/80.77m
Completed	September 23/82	Core Size	NQ	True Dip	-45°
Co-ordinates				True Brg.	280°
Objective	Test Adit Zone Mineralization down hill			% Recov.	88
					Logged by D. Mehner
					Date Sept. 19 to 23, 1982

Claim AXE 3000
 T Brg. 280°
 Collar Dip -45°
 Elev. /1060m
 Length 375ft/114.6m
 Hole No. 82-1
 Sheet 1 of 4

Footage From To	Description	Sample No.	Length	Analysis
30'-92'	med grey monzonite porphyry(?) (stain); relict plaq xtls w fine gr, sericitic-chloritic grndmass; fract mod-no piece longer than 21cm; numerous vuggy, calcite &/or gypsum fracture fillings - ±1mm av.; vuggy fract @45° to core @46½, 49, 51; 5% diss Py, often w wk ep. alt (pervasive after mafics). -tr cpy on calcite fract (stringers) @46' -hairline gyp-calcite fractures are pred. 45° to core but do occur @ all angles. -minor vein/veinlet Py @ 79'; grnd core @ 80' -gypsum veining more common @ 88'			
92-93 (28.0-28.35m)	Badly grnd & broken core of above; weathered rinds on frags; gypsum sulphate on fractures;			
93-105 (28.35-32.0m)	As 30-92; crowded monz porph (plaq phenos visible on split surfaces); ≈5-8% Py diss & diss on fract. surfaces; chloritized mafics-some calcite veining 65-90° to core; dark brown limonite on some fract; Rk very hard & poorly altered; some diss Py grains in the calcite veins.			
105-106 (32.0-32.31m)	Crse blebs ±1.5mm of Py; diss Py & fract & veinlet Py; ≈20% Py; same Rk. possibly minor, fine biotite w the Py;			
106-109 (32.31-33.22m)	As 30-92			
109-119 (33.22-36.27m)	Very broken, crumbly, ground core; as 30-92;			

Scale

Colour Plot
& Dip

Drill Hole Record



Property		District	Hole No. 82-1									
Commenced	Location	Tests at	Hor. Comp.									
Completed	Core Size NQ	Corr. Dip	Vert. Comp.									
Co-ordinates		True Brg.	Logged by									
Objective		% Recov.	Date September 22/82									
Footage From	To	Description	Sample No.	Length	Analysis	Claim	T Brg.	Collar Dip	Elev.	Length	Hole No. 82-1	Sheet 3 of 4
119-141		As 30-92 but w 5-8% diss Py, chloritized mafics & possibly fine gr. biotite w Py; crowded,										
(36.27-42.98)		micromonzonite Porphyry; phenos very prominent in fine gr. chloritized + biotite + minor ep grndmass; tr of hematite as blebs on fractures; rks well fract; calcite & gypsum veining present; trachytic texture; tr of diss cpy @ 138 along minor magnetite on fract;										
141-151		similar crowded, micromonzonite porphyry but more leucocratic(albitized?) w mafics rare &										
(42.98-46.02m)		10-20% interstitial Py replacing mafics; Py veining @ 145-146; no gypsum veins;										
151-157½		as 119-141; core vein broken-crumbly; Py diss & on fractures & as minor veins; tr of Cpy on Py										
(46.02-48.0m)		lined fracture @ 156½;										
157½-160½		massive, leucocratic, siliceous porphyritic dacite dyke with 10-15% subhedral-anhedral plag										
(48.0-48.92m)		phenos ± 2.5mm; barren; cut by calcite vein @ 80° to core; chlorite on fracture; core ground from 158-161;										
160½-177		similar to 30-92 but mafics vary from fairly fresh, subhedral-anhedral hornblende to chloritized										
(48.92-53.95)		grndmass; ground core from 162½-163 & 166½-169; & through most of 169-174;										
177-184		core ground from 177-179; hairline veinlets & veins 1-2mm wide of Py @ 177-184, parallel to core;										
(53.95-56.08m)		Py ranges up to 15-20%;										

Scale

Colour Plot
& Dip

Drill Hole Record



Property		District	Hole No. 82-1										
Commenced	Location	Tests at	Hor. Comp.										
Completed	Core Size	Corr. Dip	Vert. Comp.										
Co-ordinates		True Brg.	Logged by										
Objective		% Recov.	Date Sept. 22/82										
Footage		Description		Sample No.	Length	Analysis	Claim	T Brg.	Collar Dip	Elev.	Length	Hole No. 82-1	Sheet 3-54
From	To												
184	220	as 30-92; locally more chlorite on fractures; ground core from 187-188; 192-194; mafics vary from anhedral-subbedral, relict hornblende grains to chloritized interstitial material; av 5%-8% diss py; mafics replaced totally by Py around 202½-204;											
(56.08-67.06m)													
		-core from 204½-212 lost-core tube not locked											
		-ground from 212-220'											
220	242	as above(30-92) with Py increasing to 10-15%; Py common as diss grains & along fractures; moderate clay development on fractures; mafics mainly leached; pink gypsum veins up to ½cm; grndmass appears to be fine grained chlorite-sericite + clays; plag-Kspar; Py veins are made up of disseminated Py grains;											
(67.06-73.76)													
242	330	as above with chloritized mafics in grndmass; wk clay-ep alteration of plag xtls; core ground from 250½-264; magnetic; faint pink tinge in groundmass; Py decreases to av 1% from 257'; core missing from 274½-280 (lost bit-triconing); gradually increasing chloritization + epidote destroying most textures by 288-returned by 294'; plag xtls are light green with epidote-Kaolinite(?) replacement; ground from 299-303; plag phenos stand out more clearly after 303'											
(43.76-100.58m)													
		The fine grained groundmass with phenos may be from a porphyritic andesite flow or dyke and not intrusive; barren with minor gypsum &/or calcite veining.											

Scale

Colour Plot & Dip

Drill Hole Record



Property	District	Hole No. 82-1	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates	True Brg.		Logged by
Objective	% Recov.	Date Sept. 23/82	

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No. 82.1	Sheet 4 of 4
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Footage	Description	Sample No.	Length	Analysis
From	To			
330-375	Fine grained, massive, barren, altered hbl & plagioclase porphyritic andesite to monzonite			
(100.58-114.3m)	porph; gypsum veining all angles common; plaq phenos less abundant than above but otherwise rock looks similar; gradually rock seems to lose its porphyritic texture; @ 338' start getting very finely diss py 2% - minor epidote @ 350'			
	-some py on fractures; - only tr Py from 358-361;			
	-from 361' \approx 1.2% finely diss Py & vein Py			
	-core badly broken from 368-372'			
	faint pink tinge in groundmass; mafics get chloritized;			

Scale

Colour Plot
& Dips

Drill Hole Record



Property	AXE	District	Similkameen M.D.	Hole No.	82-2	
Commenced	September 23, 1982	Location	Adit Zone	Tests at	359'	
Completed	September 25, 1982	Core Size	NQ	Corr. Dip		
Co-ordinates		True Brq.	270°	Logged by	D. Mehner	
Objective	Test Sulphide Mineralization north of Hole 82-1		% Recov.	81	Date	Sept. 24 to Sept. 26/82

Claim	AXE 3000	T Brq.	270°	Collar Dip	-45°	Elev.	/1060m	Length	359'	Hole No.	82-2	Sheet	1 of 4
Analysis													
Footage	From	To	Description	Sample No.	Length								
	10-14		dark grey, massive, fine grained andesite; barren; cut by gypsum veins; brecciated by veins; dark brown limonite on fractures;										
	14-37½		massive, light grey micromonzonite porphyry; varies from relatively massive to strongly brecciated into angular clasts ±3 cm; brecciation due to pyrite veining that has been leached out & gypsum veining; varies from locally intense to less brecciated, massive portions with only leached fractures; dark limonite on fractures; mafics ±5% chloritized; rock contains 10-15% disseminated & vein pyrite;										
	37½-44½		more massive equivalent of above; contains gypsum veins & Fe stained (limonite) fractures @ all angles to core										
	44½-51½		brecciated micromonzonite porphyry with 10-15% pyrite as 14-37½; clasts predominantly angular to subangular;										
	51½-64		brecciated, porphyritic, siliceous, light grey dacite with 10% subhedral plag xtls, ±3% hblid xtls all set in very fine grained to aphanitic groundmass; brecciated &/or fractured with fractures containing dark brown limonite; minor gypsum veining; barren; post ore dyke;										
	64-105½		more massive but fractured micromonzonite porphyry with 10-15% py; green clay development along some fractures; weak alteration (plag-sericite?) of plag xtls &/or groundmass; local brecciation with dark brown limonite @ 72-73'; broken, crumbly core with clays @ 73½-74½; rock seems to be massive, equigranular by 79' with little to no hint of plag phenos; core badly broken & ground from 79-85'; clay alteration is moderately intense; pyrite veining @ all angles & up to 1 cm very common after 87'; Py content is now 15-20% of diss & vein type; ±5-8% chloritized mafics visible; core ground @ 89-90', 95-101½; & 103-104										

Scale

Colour Plot
& Dip

Drill Hole Record



Property		District	Hole No. 82-2		Claim	T Brg.	Collar Dip	Elev.	Length	Hole No. 82.2	Sheet 2 of 4
Commenced		Location	Tests at	Hor. Comp.							
Completed		Core Size	Corr. Dip	Vert. Comp.							
Co-ordinates			True Brg.	Logged by							
Objective			% Recov.	Date Sept.24/82							
Footage From	To	Description			Sample No.	Length	Analysis				
105½	114	micromonzonite porphyry; brecciated with strong green clay development ground various sized monzonite clasts; fault gouge; has 15% vein & diss pyrite with strong pyrite veining up to 2 cm, irregular, pseudobrecciated unit, @ 113-114'; minor white gypsum veining;									
114	168½	more massive micromonzonite porphyry with strong fracturing but held together with gypsum veining; not brecciated; clay alteration in groundmass & on fractures; diss + vein (±.8cm) Py 10-15%; minor brecciation @ 126-126½; 131½-132; 138½-141; section cut by numerous hairline calcite fractures & gypsum veins. Py veins @ 141½; 147-148, 151-153, 158-159, 161½-164; Py occurs as veins, veinlets & diss grains; often rims gypsum veins; vugs on some fractures are filled with selenite crystals; relatively light grey to leucocratic with only minor mafics;									
168½	172½	some micromonz porph(?) but with 15% interstitial mafics that are chloritized; -unit has ±1%, very finely diss Py + tr of Cpy(?); strongly magnetic;									
172½	174	very fine grained to aphanitic, light grey to wkly green, siliceous dacite to rhyolite dyke; magnetic with 1-3% finely disseminated magnetite grains; brecciated, cut by numerous gypsum veins; barren with only tr of Py; post ore;									
174	181	similar to 114-168½; very massive with gypsum veining; albite(?) chlorite vein @ 166½; only tr of clay alteration on some phenos; tr of clay + sericite on fractures; plag laths chalky white start showing up @ 174½; Py 10-15%									

Scale

Colour Plot
& Dip

Drill Hole Record



Property	District	Hole No. 82-2		Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet
Commenced	Location	Tests at	Hor. Comp.						82-2	3-4
Completed	Core Size	Corr. Dip	Vert. Comp.							
Co-ordinates		True Brg.	Logged by							
Objective		% Recov.	Date Sept. 25/82							
Footage From To	Description	Sample No.	Length	Analysis						
181-185	brecciated equivalent of above; fault gouge with abundant clay; Pyrite veins/veinlets common									
185-209½	as 174-181 with fewer chalky white plag phenos; diss Py only 3-5% with only minor Py veins; tr Cpy @ 196'; chloritized + biotitized mafics in grndmass; qtz vein @ 201½-209½ barren veins; Py veins less common occur @ 195½-197½;									
209½-222	fault gouge; above material brecciated with clay matrix from 209½-211; from 211-222 rock is very fractured with some foliation visible brecciation & abundant gouge clay; minor Cpy @ 221 in gouge clay.									
222-250	micromonzonite porphyry as 114-168½ pink aplite or qtz(?) veining w weak to abundant pyrite stringers @ 223½ & 225½-227 & 229-230½; core starts getting very broken @ 234'; vein diss Py ≈ 10-15%; only minor chloritized mafics(interstitial) remain(± 5%); Py veins common @ 247-250; qtz veins @ 249½ have py halos;									
250-343	similar to above but more massive, possibly albitized; very hard & seems fresh; fractured but little gypsum & less coarse pyrite veining; porphyritic texture absent(albitized); Py veining common @ 271-271½; 281-281½; relict mafics gradually more common, giving rock an intermediate-felsic "speckled" appearance by 290'; albitized look is gone!; Py diss & veins still ≈ 15%; clay fault gouge @ 298-299' ground core from 299-302; mafics dissappear & albitized look appears after 308'; possible tr of diss Cpy; ground core from 314½-318; Qtz vein @ 321½; core is fairly broken from 290-328'; broken after 337½									

Scale

Colour Plot
& Dips

Drill Hole Record



Property	District	Hole No. 82-2	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates	True Brg.		Logged by
Objective	% Recov.	Date Sept. 25/82	

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No. 82-2	Sheet 1 of 4

Footage From	To	Description	Sample No.	Length	Analysis	
343	352	broken, fractured, gypsum veined, calcite fractured, post ore, andesite dyke; 10% subrounded mafic phenos, 5% Ksp xtls all set in fine grained diorite - granodiorite groundmass; very fine grained; barren; ground @ 350-251'; minor epidote veins'				
352	359	as latter part of 250-343'; fault gouge & strongly broken from 352-359; has 3-7% diss Py; minor Py veinlets; rock has numerous gypsum filled hairline fractures;				

Scale

Colour Plot
& Dips

Drill Hole Record



Property	Axe Property	District Similkameen M.D.	Hole No. 82-3
Commenced	September 26/82	Location Adit Zone	Tests at 571'
Completed	September 30/82	Core Size NQ	Hor. Comp. 452'/137.77m
Co-ordinates West Grid(Approx.) :138 + 84 N/893 E		True Brg. 270°	Vert. Comp. 452'/137.77m
Objective	Test mineralization under hole 73-3	% Recov. 82.2 (0-235=55% 235-635=95%)	Logged by D. Mehner Date September 29/82

Claim	Axe 3000
T Brg.	270°
Collar Dip	-45°
Elev.	3595'/1095.76m
Length	635'/193.55m
Hole No.	82-3
Sheet	1 of 8

Footage From To	Description	Sample No.	Length	Analysis									
10 - 16	Fractured, vuggy, limonite stained & locally leached, micro-monzonite porphyry, tr of Cpy & \pm 3% diss Py; hairline fractures with chlorite, weak pervasive sericite, chlorite alteration; rock fairly massive.												
16 - 40	Same med to dark green grey micromonzonite porphyry with chloritized mafics + minor sericite; No to very minor limonite; core very broken, ground & very poor recovery; plag phenos very clear; minor relict hornblende crystals; moderately magnetic; \pm 1% Py; Manganese common on fractures; 3-5% magnetite around 32'-39' tr of diss Cpy with magnetite;												
40 - 49½	Leached, massive, light grey, "albitized" micromonzonite porphyry; 5% disseminated pyrite; calcite fractures; limonite on fractures from 44'-48'; tr of diss grains of Cpy assoc. with diss Py(esp @48½); minor small pyrite veins \pm 3mm wide;												
49½ - 96½	As 16-40 with minor diss Cpy(\pm 1%) from 51'; same area has diss magnetite; \pm 1% Py; from 78-84 rock is leached like 40-49½ with 10-15% Pyrite; Magnetite is 5-8% from 88-96½ replacing hornblende xtls; minor gypsum veins;												
96½ - 113½	As 40-49½ with 5-10% Pyrite; core broken; light(weak) clay-sericite alteration;												
113½ - 124½	Fault gouge zone; strongly sheared foliated; gypsum veining; clay common; 10% pyrite; "boudined"; pyrite stretched out into "beds"; minor Cpy stringers parallel to foliation; foliation is \pm 5-10° to core;												

Scale

Colour Plot
& Dip

Drill Hole Record



Property	District	Hole No.	82-3
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date Sept. 30/82

Claim

T Brg.

Collar Dip

Elev.

Length

Hole No.

82.3

Sheet
2.49

Footage From	To	Description	Sample No.	Length	Analysis					
124½	126½	Massive, leached micromonzonite porphyry with 3-5% diss pyrite; gypsum veining; sericite-clay alteration is weak to moderate; rock fairly fine grained but ghost plag phenos visible;								
126½	130	Fine grained, siliceous, trachytic, dark grey dacitic dyke; very fine grained; chloritized hornblende phenos(≈3%) + plag phenos(3%); minor diss pyrite; post ore dyke;								
130	149	As 124½-126½; core mod broken(up to 8cm pieces); moderately ground; possibly tr of diss Cpy ie. some Py has faint yellow to greenish tinge; fault gouge @128½-140½ & 141½-142; foliated; brecciated held together with green clay; Py increases to 5-10% as disseminated clots; rock is albitized, hard; minor Cpy along fractures @ 144';								
149	149½	Massive, fine grained, dark grey andesite dyke; post ore;								
149½	153½	Dark green, chloritized micromonzonite to diorite porphyry; ≈1% diss Py + tr of diss Cpy; strong gypsum veining;								
153½	159½	As 130-149½ with 10-15% diss pyrite; green sericite on some fractures;								
159½	161	Fault gouge; abundant clay;								
161	176	As 153½-159½; locally very broken; gouge @ 164-164½; pieces of core up to 15cm; tr diss Cpy around 170';								
176	176½	Fine grained, dark green-grey andesite dyke with traces of diss sulphide; as 149-149½; looks felted; 5% microplagioclase phenocrysts; post ore;								

Scale

Colour Plot
& Dip

Drill Hole Record



Property	District	Hole No. 82-3	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date Sept. 30/83

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet
					82-3	1.1 B

Footage From To	Description	Sample No.	Length	Analysis
176½ - 181	Fine grained, porphyritic andesite dyke with 5-8% epidote clots replacing feldspar phenocrysts; 3% chlorite replaced hornblende phenos(laths); pink tinge in groundmass; post ore; granular groundmass; 10% white semi-elliptical features; resemble amygdules;			
181 - 182	As 161-176			
182 - 191	As 176½-181			
191 - 195	As 161-176			
195 - 197	Massive, fine grained andesite dyke; 1-3% chloritized hornblende laths; tr of diss sulphide; post ore;			
197 - 202½	Fault gouge; breccia; abundant clay; 10-15% Py and <1% diss Cpy;			
202½ - 215½	As 161-176; 203-204½ up to 2% diss Cpy; some pyrite is slightly yellow suggesting finely diss Cpy assoc with pyrite; finely diss sericite throughout groundmass; tr of diss Cpy throughout; fault gouge @ 210-211; gradual increase in colour, chlorite?(after mafics?);			
215½ - 223	As above but rock has "mottled" appearance; Py 5-10% diss, minor veins; ±½% diss Cpy; very broken with abundant clay @ 222½-223 possibly fault zone?;			
223 - 233	As 161-176; finely diss Cpy(<1%) with pyrite;			
233 - 235	As above but with 3-7% diss Cpy & ≤2% diss pyrite; broken and ground @ 234½-235;			
235 - 240½	As 161-176 but only 3-5% diss pyrite; fault gouge @ 236½-239; leached, albitized with minor sericite alteration; <<1% Cpy assoc with pyrite;			

Scale

Colour Plot
& Dip

Drill Hole Record



Property	District	Hole No.	82-3		Claim	T Brg.	Collar Dip	Elev.	Length	Hole No. 82-3	Sheet 4.16
Commenced	Location	Tests at	Hor. Comp.								
Completed	Core Size	Corr. Dip	Vert. Comp.								
Co-ordinates	True Brg.		Logged by								
Objective	% Recov.		Date Sept. 30/82								
Footage From To	Description	Sample No.	Length	Analysis							
240½ - 242½	As 233-235 but with 3-5% diss Cpy & 3-5% diss Py;										
242½ - 246	Massive, fine grained dark grey-green, andesite dyke; post ore; 5% chlorite(?) replaced mafics; weak pervasive epidote alteration; 245-245½ is like 240-242½;										
246 - 274	As 240-242½; diss pyrite and/or Cpy occurs as small clots of finely disseminated sulphides; gives rock a spotted appearance; minor gypsum veining; minor Cpy vein(250½); diss Cpy decreases to 2-3% by 253 with 2-3% disseminated pyrite; the blebs of diss sulphide give the rock a "spotted" appearance; by 270 Py=Cpy-2-3% total; gypsum veins all angles; N.B. core pieces average 15-20 cm each but do range to 35 cm;										
274 - 278½	Cpy only tr after 274; same rock as above; total sulphides are only ±1%;										
278½ - 288	Similar to above but with 3-5% diss pyrite containing traces of diss Cpy; pieces range to 30 cm but average 5-10 cm; gypsum veining very common @ all angles; minor fault gouge and brecciation @ possibly 045° to core; 283½-284½; up to ±1% diss Cpy from 285-286½;										
288 - 289½	Massive, fine grained, dark grey andesite dyke; magnetic, small calcite veins parallel to core; contact @ 060° to core; post ore;										
289½ - 293	As 278½-288; locally foliated; fault breccia @ 290½-291½;										
293 - 299½	As 246-274; individual pieces of core gange up to 40 cm but average ±10cm; contains 3-5% disseminated Py + Cpy with 1-3% diss chalcopyrite;										

Scale

Colour Plot
& Dip

Drill Hole Record



Property	District	Hole No. 82-3	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date Oct. 1/82

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No. 82-3	Sheet 5-18
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Footage		Description	Sample No.	Length	Analysis							
From	To											
299½	307	Same rock as above but only 3-5% sulphide with 4-1% Cpy; note that some finely diss Py does have a similar colour to Cpy however may be finely diss Py + Cpy;										
307	308	Fine grained, to aphanitic grey to grey-green dacitic dyke; siliceous looking; foliation due to flow banding(?); post ore;										
308	333½	Same as 299½-307 with 1-4% sulphide; traces of Cpy plus possibly Cpy disseminated with pyrite; core broken; pieces up to 55 cm but average 15-20 cm; fractures @ 45° to core; pyrite vein 1 cm wide with diss Cpy 1% @ 320½; pyrite does increase to 3-7% with traces of Cpy throughout;										
333½	378½	As above with 2-8% Cpy (av. 4%) & 3% Py; Note: as in previous samples, the sulphides are disseminated & stringer/veinlets that are around plag phenos; granular, giving disseminated appearance; core pieces range up to 65 cm and average 17-20 cm; where Cpy mineralization is best (up to 8% over 5-10 cm) the rock has a foliated, "zebra" appearance with sulphides (Cpy) elongated in a 35-45° angle to core; from 342-344½ grade drops to 2% Cpy; Get up to 35 cm, light brown to pink, largely barren zones that appear to be largely albitized; "zebra" copper mineralization is strong on either side of these albitized zones but only weakly disseminated in them; gypsum veins up to 1½ cm cut all zones - albitized & lesser albitized; relict plag phenos are absent & sericite gone by 342; Cpy vein @ 373½ @ 45° to core;										

Scale

Colour Plot
& Dip

Drill Hole Record



Property	District	Hole No. 82-3		Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet
Commenced	Location	Tests at	Hor. Comp.							
Completed	Core Size	Corr. Dip	Vert. Comp.							
Co-ordinates	True Brg.		Logged by							
Objective	% Recov.		Date Oct. 1/82						82-3	2.11
Footage From To	Description		Sample No.	Length	Analysis					
378½ - 434	Same rock ie, strongly albitized micromonzonite porphyry with 1-4% disseminated pyrite & <1% Cpy; average core pieces are 35-45 cm; fractures @ 45° to core; core gets weakly foliated appearance with relict white plag phenos some of which are sericitized & replaced by sulphides from 385; rock has aligned phenos (metamorphic foliation?), less albitization & the occurrence of sericite; gradually loses phenocryst textures & returns to massive, mottled looking unit with weak sericite; strongly albitized;									
434 - 451½	Same rock but relict plag xtls visible; weak sericite; massive & 3% Py with only tr Cpy; groundmass has 10% fine chlorite replacing hornblendes; Py up to 3-5%; rock softer due to chlorite-sericite; core pieces average 30 cm; gypsum veining is less than above in section;									
451½ - 458	Back to massive albitized rock; pink colour along hairline fractures commonly @ 45° to core; these pink zones occasionally border pyrite veins; relict plag phenos faintly visible;									
458 - 467	Grey-green, chloritized, micromonzonite porphyry; plag phenos set in chloritic fine grained groundmass; <1% finely disseminated pyrite; core pieces range up to 60 cm but average 15-20 cm; minor gypsum veining; very common hairline fractures @ 465-465½ give rock foliated appearance @ 45° to core;									

Scale

Colour Plot
& Dips

Drill Hole Record



Property	District	Hole No.	82-3		Claim	T Brg.	Collar Dip	Elev.	Length	Hole No. 82.3	Sheet 7-4, 8
Commenced	Location	Tests at	Hor. Comp.								
Completed	Core Size	Corr. Dip	Vert. Comp.								
Co-ordinates		True Brg.	Logged by								
Objective		% Recov.	Date Oct. 2/82								
Footage From To	Description	Sample No.	Length	Analysis							
467 - 476	Back to predominantly light grey, albitized with weak sericitic alteration of micromonzonite porphyry; 2-3% diss pyrite with minor chalcopyrite ($\pm 1\%$) after 468; note some Cpy appears caught up with a small gypsum vein; gypsum veining is common; pink albite(?) starts around 475 where Py decreases to $\pm 2\%$ with only tr Cpy;										
476 - 493½	As above but dark green-grey due to chlorite alteration; $\pm 5\%$ Py with $\pm 1\%$ Cpy; no to only minor pink albite alteration; chlorite alteration diminishes & pyrite increases to 10% as disseminated, stringer and veins in light grey, sericitized micromonzonite porphyry from 484-487; then back to chloritized, weakly pink albitized monzonite; very to moderately magnetic with magnetite replacing hornblende(?); finely diss Cpy occurs in magnetite;										
493½ - 524½	As 467-476; Pink albite alteration very common, becoming moderately pervasive by 495½; Py $\pm 1\%$ from 493½-502 with no Cpy; from 502-509½ Py is $\pm 3\%$ with 1-5% Cpy; Cpy is spotty and less common in pink albitic zones & very common adjacent to them-variation occurs over less than 5 cm; Cpy occurs as disseminated grains, stringers and veins; Cpy reduced to tr amounts after 509½; pyrite 3-5% as disseminated grains & stringers; core pieces average 18-20 cm;										
524½ - 528	Chloritized micromonzonite porphyry; 3-5% disseminated & stringer pyrite; chloritized hornblende xtls visible;										
528 - 531	Light grey leached micromonzonite porphyry; $\pm 5\%$ disseminated pyrite; minor gypsum veining;										
531 - 535½	Similar to 524½-528; hornblende xtls absent but locally magnetite blebs may be after hornblende xtls; 533-535 core pieces ± 5 cm; 3-5% pyrite;										

Scale

Colour Plot
& Dip

Drill Hole Record



Property	District	Hole No.	82-3
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date Oct 2/82

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet
					82.3	8-11

Footage From To	Description	Sample No.	Length	Analysis			
535½ - 565½	As 528-531; Note: no pink albitization; small shear @ 45° to core & foliated zone from 536-537; minor fault clay; most of unit is albitized(white) with various degrees of sericitization of feldspar phenos; Py varies from ~1% in massive albitized portions to 5-7% in more sericitic altered, porphyritic zones; core pieces range to 65 cm but average 10-15 cm; Cpy veins assoc with horizontal gypsum veins @ 546; fault gouge @ 548½ with assoc minor brecciation; fractures are @ 65° & 35-45° to core; pink albitization @ 565-565½; tr of Cpy throughout this interval.						
565½ - 566	Porphyritic grey andesite dyke; 10% pink plag phenos; 3% chlorite replacing hornblende(?); minor epidote replacing plag xtls; post ore;						
566 - 568	As 535½-565½; minor clay visible around partly sericitized plag xtls; Py ~2%;						
568 - 574	Fine grained andesite to microdiorite dyke; as 565½-566(?); 5% feldspar xtls replaced by epidote; minor chlorite after 3% mafic phenos; "felted" texture; barren, post ore;						
575 - 618	As 566-568; brecciated from 577-582; shatter breccia with frags up to 5 cm and subrounded; most frags in situ; matrix of finer ground particles; pyrite + Cpy vein @ 576½ border 2 cm gypsum vein cutting core @ 35°; gradual increase in chlorite in groundmass so that by 587 rock is fairly chloritic; Pyrite increases to 3-5% with chloritic zone; brecciated with minor fault gouge @ 589-590½; core pieces up to 40 cm but average 8-15 cm; slickensides @ 593½ are down axis of core & @ 045°-chlorite; foliation planes; tr of Cpy. 599½-603½ relict hornblende crystals visible; core maintains dark colour with 3-5% pyrite to 618; rock is "harder" toward bottom of section;						
618 - 635	Dark grey-green microdiorite or micromonzonite porphyry; ~3% Py; minor gypsum veining; very hard core; relict hornblendes common; albite common from 626-635;						

Scale

Colour Plot
& Dip

Drill Hole Record



Property	Axe	District	Similkameen M.D.	Hole No.	82-4
Commenced	October 2, 1982	Location	South Zone	Tests at	383' -46°
Completed	October 4, 1982	Core Size	NQ	Dip	-45°
Co-ordinates	West Grid(Approx.): 93 + 12 N/970E		True Brg.	270°	Logged by Dave Mehner
Objective	Test down the hill from the South Zone		% Recov.	89	Date Oct. 3/82 to Oct. 6/82

Claim	Axe 4000
T Brg.	270°
Collar Dip	-45°
Elev.	3450' / 1051.56m
Length	383' / 116.74m
Hole No.	82-4
Sheet	1 of 5

Footage From	To	Description	Sample No.	Length	Analysis
10	15½	Badly fractured limonite stained andesite flow(?); faint plag phenos; strongly brecciated with hairline fractures in all directions; tr. Cpy & <1% Py;			
15½	23	As above but no limonite; red hematite on fractures; moderately magnetic; vein epidote up to 3-4 cm; minor secondary Ksp; very minor vein, fracture & disseminated pyrite (<1%); chloritized dark grey-green rock; intense calcite fracturing all angles but commonly 60-80° to core; tr. of Cpy & pyrite with epidote veins/clots; Ksp. borders or associated with epidote; rock looks felsic, probably albitized; core pieces up to 25 cm but average 5-10 cm;			
23	25	Foliated, strongly chloritized fault zone @ 30-35° to core; fault clay; tr. of Cpy;			
25	33	As 15½-23 with clots up to 3 cm and zones of pervasive epidote; minor secondary Ksp; chloritized groundmass; strongly magnetic zones; with magnetite veins brecciating strongly epidote altered portions; < 1% sulphide;			
33	39	As above but appears to be clastic; flow top breccia?; clasts appear to be augite porphy. strongly altered, veined & fractured as 25-33; secondary Ksp. more common;			
39	63	As above but more massive with visible pyroxene xtls set in fine grained, faintly pink groundmass; trachy basalt flow? pyrite vein @ 42½; pyrite increases to 1-2% primarily as disseminated grains with epidote; ½% diss Cpy @ 48½-49; strong pervasive epidote alteration with minor pyrite grains & veins; tr. of Cpy to 63'; minor assoc Ksp. veinlets; Qtz vein ½ cm & 45° to core @ 60½; core very brecciated; strong Py veining @ 58-62; parallel to core.			

Scale

Colour Plot
& Dip

Drill Hole Record



Property	District	Hole No. 82 - 4
Commenced	Location	Tests at
Completed	Core Size	Hor. Comp.
Co-ordinates	True Brg.	Corr. Dip
Objective	% Recov.	Vert. Comp.
		Logged by
		Date Oct. 6/82

Footage From	To	Description	Sample No.	Length	Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet
63 - 65		Same rock as above(?) but intensely altered by secondary Ksp.; tr. of pyrite;								82-4	C-15
65 - 68		As 39-63 with intense pervasive epidote alteration; minor Cpy.($\lt 1\%$);									
68 - 79		Fine grained andesite dyke; tr. of diss. py; minor epidote; cut by numerous calcite fractures; strongly foliated @ $73\frac{1}{2}$ - $74\frac{1}{2}$ possible fault zone; post ore dyke;									
79 - 80		As 65-68; very brecciated; resembles lapilli(lithic) tuff;									
80 - 81		Very fine grained, porphyritic andesite; minor epidote alteration & fracture filling; tr. of diss. pyrite; post ore(?);									
81 - 94		As 65-68; qtz vein cuts core @ 10^0 contains diss pyrite @ 82'; rock totally replaced by epidote (80%) & chlorite(15%) with minor pyrite, Kspar and calcite with traces of Cpy; possibly a coarse clastic texture - Volcanic Breccia; very crumbly, foliated and calcite veined;									
94 - 107 $\frac{1}{2}$		Grey, massive lithic, lapilli-tuff to agglomerate; augite porphyry; epidote and strong chlorite replacement(chlorite epidote); moderately to strongly magnetic; moderate to minor Ksp; minor epidote-magnetite veining; traces to $\frac{1}{2}\%$ of finely disseminated Cpy throughout the epidote; unit becomes locally brecciated by Qtz veining/fracture fillings cutting core @ 65-90 0 (99-103'); 2% disseminated & fracture pyrite; intense albitization & Ksp.(?) with minor epidote alteration @ 98 $\frac{1}{2}$ ' clay-fault gouge @ 60^0 to core @ 106 $\frac{1}{2}$ -107';									

Scale

Colour Plot
& Dips

Drill Hole Record



Property	District	Hole No. 82 - 4	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date Oct. 6/82

Claim

T Brg.

Collar Dip

Elev.

Length

Hole No.
82-4Sheet
3 of 5

Footage From To	Description	Sample No.	Length	Analysis					
107½ - 111	Massive, fine grained grey andesite flow; strongly altered(albite-chlorite-epidote); accidental xenoliths of augite porphyry up to 4 cm across(minor); fault gouge(clay @ 110-111'); minor hematite with chlorite on fractures; ±2% pyrite, trace Cpy;								
111 - 123	Strongly brecciated(calcite filled fractures), chloritized(light green) and epidotized augite basalt(andesite?) porphyry flow(?); hematite on fractures; <1% total sulphide; relict phenos visible; Kspar alteration from 117½';								
123 - 142	Strongly epidotized-Ksp. altered unit; altered andesite-basalt flow(?) or volcanic fragmental(?); Py ±2% with traces of Cpy; rock appears to be fine-medium grained; locally albitized into very fine grained portions as @ 137-137½';								
142 - 143	Fine grained, calcite fractured, andesite dyke; barren; post ore;								
143 - 164	As 123-142; possibly flow but looks partly fragmental; resembles hybridized zone adjacent to monzonite intrusive; ±2% total sulphide; epidote & calcite veining decrease in amount; resembles fine grained hornblende syenite to monzonite by 160'; homogenous, equigranular;								
164 - 192½	Massive, fine grained andesite; strongly chloritized with moderate epidote veining/fracture filling; brecciated; albitized moderately; epidote veining/fracture filling increases @ 182'; Py ±1% with trace of Cpy;								

Scale

Colour Plot
& Dip

Drill Hole Record



Property	District	Hole No. 82 - 4	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date Oct. 6/82

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No. 82-4	Sheet 4 of 5
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Footage		Description	Sample No.	Length	Analysis										
From	To														
192½	198	Lithic tuff-andesite to basalt composition(?); clasts faintly visible(!) and suggested by epidote replacement; ± 2% Py; trace Cpy.													
198	204	Massive fine grained, altered andesite; ± 2% Py + trace Cpy;													
204	207	Very fine grained, dark grey, foliated andesite-basalt; trace of Py; cut by numerous calcite fractures; post ore dyke that has been fractured/ foliated(?);													
207	209½	Intensely epidotized(80%) unit with Qtz veins @ 35° & 60° to core, minor Ksp. and chlorite and 3% pyrite; brecciated with some fragment movement; fault zone(?);													
209½	214½	As 204-207; spotty epidote after feldspar phenos; similar to dykes in Adit zone.													
214½	215	Angular fault breccia; cuts core @ 25°;													
215	218½	As 209-214½; brecciated by calcite fractures; plag phenos replaced by epidote;													
218½	246	Pervasively altered andesite-basalt flows; very strong epidote; minor, common calcite fractures; clay from 228-231½; breccia(fault) in this zone; chlorite alteration strong after 232'; pyrite veins/ fracture filling @ 241½'; @ 243 augite phenos are visible;													
246	256	Intensely epidotized-chloritized-albitized augite basalt(andesite?) flows as above; brecciated by intense, randomly orientated calcite fractures; ± 1% sulphide;													
256	256½	Post ore, massive, fine grained andesite dyke; cut by calcite fractures, hematite along fractures; dyke cuts core @ 45°;													

Scale

Colour Plot
& Dip

Drill Hole Record



Property	District	Hole No.	82 - 4							
Commenced	Location	Tests at	Hor. Comp.							
Completed	Core Size	Corr. Dip	Vert. Comp.							
Co-ordinates		True Brg.	Logged by							
Objective		% Recov.	Date Oct. 6/82							
Footage	Description	Sample	Length	Analysis						
From	To	No.								
256½ - 320	As 246-256; magnetic; minor Qtz veining; foliated (shears) outlined by epidote cut core @ 35-75° @ 272-282'; 2% pyrite; only minor trace of Cpy + MoS ₂ ; fault gouge + clay @ 320';									
320 - 320½	Fresh andesite dyke; trachytic, flow texture; sub parallel to core; ost ore;									
320½ - 341	As 256½-320; minor Kspar. with the epidote; calcite fractures common;									
341 - 374	Massive, fine to med. grained andesite flows(?); moderate epidote (pervasive) alteration; 2% sulphides; texture resembles microdiorite; microbrecciation (hairline fractures); fault gouge/breccia @ 372'; rock is fairly hard with less clay & crumbly;									
374-380½	Fine grained porphyritic andesite dyke with 8-10% fedlspar (plag) phenos set in fine grained, grey groundmass; phenos replaced by epidote; post ore; upper contact sub parallel to core;									
380½ - 383	Massive fine grained andesite with xenoliths of hornblende porphyry monzonite to syenite containing pervasive epidote with finely diss Cpy; same intrusive occurs along fractures intruding the andesite; close to andesite monz-porphyry contact.									

Claim

T Brg.

Collar Dip

Elev.

Length

Hole No.
82-4Sheet
S. 15

Scale

Colour Plot
& Dip

Drill Hole Record



Property	Axe	District	Similameen M.D.	Hole No.	82 - 5
Commenced	October 5, 1982	Location	Mid Zone	Tests at	409' -47°
Completed	October 7, 1982	Core Size	NQ	Com. Dip	-45°
Co-ordinates	West Grid (Approx.): 117 + 07N / 134 E		True Brg.	270°	Logged by
Objective	Drill test Valley Bottom between Pip 2 & 4 claims		% Recov.	68	Date
					Oct. 7 and 8/82

Claim

Axe 3000

T Brg. 270°

Collar Dip -45°

Elev.

3018' / 920m
Length409' / 124.66m
Hole No. 82-5Sheet
1 of 3

Footage From To	Description	Sample No.	Length	Analysis					
90 - 117	Badly broken and ground, massive andesite crystal tuffs; ±3% disseminated and fracture pyrite; weak epidote alteration; trace of finely diss. Cpy throughout epidote; weak to non magnetic;								
117 - 136	Polymictic volcanic conglomerate to breccia; frags visible only by preferential epidote replacement; plag xtls (rounded) faintly visible; minor fracture & clotted epidote; unit faint pink to purple in colour; hard (albitized?); possible xtl-lithic tuff; ±2% pyrite clots, diss grains, fracture fillings; assoc with epidote; minor visible frags appear to be pyroxene-plag porphyry monzonite;								
136 - 160	Fine grained andesite xtl + lithic tuffs; latite component(?); 146-148 has 2-4 cm volc. clasts-tuff breccia(?); weak to moderate pervasive epidote with 1-3% pyrite; possible bedding;								
160 - 163	Leucocratic, felsic dacite-rhyolite; ±2% diss pyrite;								
163 - 187	As 136-160; still badly broken; definite graded bedding; very little epidote; locally epidote appears to parallel bedding & cut core @ 45°;								
187 - 209½	Light green-grey andesite-dacite; < 1% Py; badly broken, fractured & brecciated; clay alteration; bedding @ 60° to core;								
209½ - 212	Very brecciated (fault zone) dacite; numerous angular fragments; abundant clay; ±1% Py								

Scale

Colour Plot
& Dip

Drill Hole Record



Property		District	Hole No. 82 - 5		Claim	T Brg.	Collar Dip	Elev.	Length	Hole No. 82-5	Sheet 2 of 3	
Commenced		Location	Tests at	Hor. Comp.								
Completed		Core Size	Corr. Dip	Vert. Comp.								
Co-ordinates		True Brg.		Logged by								
Objective		% Recov.		Date Oct. 7/82								
Footage From	To	Description	Sample No.	Length	Analysis							
212	225½	Same brecciated fault zone but now dacite-andesite; ±1% Py; light grey but up to 10% finely diss mafics; clasts up to 6 cm; angular to subangular; set in abundant clay-sand matrix;										
225½	267	Same fault zone but rock is epidote, altered andesite; ±2% diss Py; trace of diss Cpy along chlorite shear 40° to core @ 228½'; rock has light green chlorite throughout; zones appear more dacitic ie. light green & siliceous; Qtz vein @ 244-246 with minor Ksp.; pyrite increases to ±4% from 243'; clay holds rock together										
267	272½	Massive but foliated andesite(fault foliation?); veining/foliation parallel to 20° to core; 3-5% diss and veinlet pyrite; chlorite & epidote altered; foliation becomes more pronounced by 269' with Qtz veins & foliation cutting core @ 45°; pyrite is stretched parallel to foliation & increases to 5-8%;										
272	294	Intensely, pervasively epidote altered andesite tuffs(?) to coarse volcanic fragmental-lithic tuff-volcanic breccia?; suggestion of altered latite porphyry and andesite portions and fragments; Qtz vein @ 276-277' cuts core @ 10°; minor epidote veining; 3-5% pyrite; a foliation cuts core @ 45°, in part may be bedding! Thin dacitic portion(massive, felsic, light grey) @ 287-288';										
294	362½	Bedded andesite tuffs with minor latite tuffs; less coarse than 272½-294(?) and less epidote; Py ±3% as diss and fracture controlled grains; clay seam and brecciated @ 299½-300 & 305½-307½; graded bedding cuts core @ 35° thin, 10-30 cm thick dacitic units; locally disseminated magnetite; by 325' rock is fresh looking with minor irregular calcite fracturing and only minor epidote; bedding visible, often graded; rock is all andesite tuffs with minor dacite portions; ±2% diss + fracture controlled pyrite;										

Scale

Colour Plot
& Dip

Drill Hole Record



Property	District	Hole No.	82 - 5
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date Oct. 8/82

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet
					82-5	7 of 7

Footage		Description	Sample No.	Length	Analysis								
From	To												
362½	363	Strongly porphyritic monzonite dyke with 3% diss + fracture pyrite;											
363	372	Massive and bedded fine to medium grained andesite tuffs; minor irregular vein epidote; 3% diss + fracture pyrite; minor plag rich, latite units; minor Qtz veins average 1 cm wide cut core @ 10-20 ⁰ ; traces of MoS ₂ - ooooo, with Qtz veins and shear occur @ 367-386';											
372	399	Same andesite tuffs but broken epidote altered, sheared with abundant plag xtls; "granitized"; pink veining(Ksp?);											
399	409	Andesite tuffs; bedded; Qtz + epidote veining(minor); ± 3% diss + fracture pyrite;											

Scale

Colour Plot
& Dip

Drill Hole Record



Property	Axe	District	Similkameen M.D.	Hole No.	82 - 6
Commenced	Oct. 8, 1982	Location	East Side	Tests at	351' -50°
Completed	Oct. 12, 1982	Core Size	NQ	XXX Dip	-45°
Co-ordinates	East Grid(Approx.): 10N/851W		True Brg.	Q90°	Logged by Dave Mehner
Objective	Drill Under 500 ppm Soil Geochem Anomaly, East Side		% Recov.	71%; 97% after 162'	Date October 15, 1982

Claim	Axe	3000
T Brg.	090°	
Collar Dip	-45°	
Elev.	2933' / 894m	
Length	351'	
Hole No.	R7-6	
Sheet	1 of 1	

Footage From	To	Description	Sample No.	Length	Analysis					
74	99	Epidotized-chloritized(weakly), hornblende porphyry diorite; well developed hornblende(euhedral) phenocrysts 15-20%; magnetite replaces mafics; strongly magnetic; Fe stain on fractures; <1% diss Py; rock very broken & ground; weakly albitized;								
99	112½	Fine grained diorite with moderately albitized; weak to moderate intensity pervasive epidote alteration; 3-5% disseminated and fracture controlled Py; fractures all angles but commonly parallel to core and @ 80-90° to core; Feldspars gone pink;								
112½	160	As above with secondary Ksp. starting to occur on fractures & with pervasive epidote; Hornblende crystals are locally well developed laths; plaq phenos visible as corroded, square crystals; Qtz veins up to 1 cm wide containing vein pyrite and rimmed with epidote-Ksp. cut core @ 118½' @ 45° to core; hairline pyrite-epidote fractures parallel Qtz vein;								
160	190	Moderately to strongly albitized medium grained diorite to monzonite porphyry; light grey with subrounded plaq crystals set in fine grained leucocratic groundmass; looks like a monzonite porphyry; calcite fractures cut core @ 0-20° predominantly; 3-4% disseminated pyrite; minor epidote; moderately brecciated by calcite filled fractures; leaching along fractures; Qtz veining @ 0-20° and 85-90° to core, average 3-4 mm; from 175'; 3% diss Py in rock and Qtz veining; trace of MoS ₂ along outer edges of Qtz veins; MoS ₂ traces from 175'; MoS ₂ filled fracture @ 65° to core @ 182½; brecciated + gouge @ 181';								

Scale

Colour Plot
& Dips

Drill Hole Record



Property	District	Hole No. 82 - 6	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date Oct. 15/82

Claim	T Brg.	Collar Dip	Elev.	Length	High No. 82.6
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Sheet
2 of 3

Footage From To	Description	Sample No.	Length	Analysis						
190 - 211½	Fine grained strongly porphyritic diorite; 30%, 1-2 mm anhedral plag grains set in fine grained dark grey-brown groundmass; Qtz veining as above; 1-3% fracture and diss pyrite; weakly brecciated; moderately to strongly magnetic; Qtz veins commonly @ 65-80° to core; have thin films of MoS ₂ along outer vein boundaries; Kspar. salvages up to 3-5 mm on outside of MoS ₂ ; pyrite grains & blebs in Qtz veins and in Kspar. salvages, along fractures & as disseminated grains (±5%); Fault gouge @ 206-207½;									
211½ - 213½	Fine grained to aphanitic barren andesite dyke @ 40° to core; med. brown-grey in colour; has wisp plag xls; fault gouge @ 212-212½;									
213½ - 230	As 190-211½; Qtz veining less than above; veins all angles but common @ 80-90° to core and 0-15° to core; MoS ₂ absent to only trace; Py ±5% as diss & fracture controlled grains; actinolite vein @ 80° to core @ 223½ ± 8 mm wide; shear @ 225½'; trace of MoS ₂ with pyrite rich Qtz veins with minor Ksp. salvages @ 224-226';									
230 - 276	As above with only minor Qtz veining; calcite fractures/veins very common, often with epidote and/or chlorite; Qtz veins have minor MoS ₂ on outer edges; shear @ 260' @ 25° to core; non magnetic; minor gypsum;									

Scale

Colour Plot
& Dips

Drill Hole Record



Property	District	Hole No. 82 - 6	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date Oct.15/82

Claim	T Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet
					82-6	3-1-3

Footage From	To	Description	Sample No.	Length	Analysis
276	341½	Medium grained, intermed, equigranular diorite; anhedral grains; 3-5% diss + fracture filled pyrite; Qtz veins common; Av. 4-8 mm wide and commonly 45° to core; mod. magnetic; mafics chloritized look green-brown; calcite fractures all orientations, common; pyrite-Qtz-MoS ₂ vein up to 2 cm wide cuts core @ 90° @ 291½; pyrite cube in vein=1 cm across; broken, friable, moderately calcite fracture, brecciated @ 292½-295; calcite veins cross-cut pyrite MoS ₂ bearing(MoS ₂ on outer edges) Qtz veins; get well developed stockwork from 302'; fault gouge @ 314-314½, MoS ₂ common along most Qtz veins; only minor secondary Ksp.; rock albitized; calcite filled crackle breccia @ 325-329½' & 330½-333 & 336-338½;			
341½	351	As above but with Qtz veins common @ 60° to core with thin films of MoS ₂ on outer selvages and containing minor Kspar. grains;			

APPENDIX "D"

GEOCHEM VALUES FROM GRID AND CONTOUR LINE SOIL SAMPLING

REPORTING DATE 9 AUG 1982

~~VB2 - 02785~~

SAMPLE NUMBER	FIELD NUMBER	TYPE	MAP	E/W	N/S	Cu PPM	Pb PPM	Zn PPM	Mo PPM
S82 05504				+400	-19	63	10	128	<2
S82 05505				+300	-19	77	10	82	2
S82 05506				+200	-19	79	12	90	2
S82 05507				+100	-19	71	10	104	2
S82 05508				+0	-19	59	6	95	<2
S82 05509				-100	-19	62	9	71	2
S82 05510				-200	-19	48	7	40	2
S82 05511				-300	-19	64	8	75	<2
S82 05512				-400	-19	57	7	93	2
S82 05513				-500	-19	60	8	112	2
S82 05514				-500	-20	70	9	112	<2
S82 05515				+400	-21	105	12	88	2
S82 05516				+300	-21	94	12	88	2
S82 05517				+200	-21	78	11	116	3
S82 05518				+100	-21	108	10	101	2
S82 05519				+0	-21	63	8	85	2
S82 05520				-100	-21	103	8	82	2
S82 05521				-200	-21	54	8	76	2
S82 05522				-300	-21	57	7	63	2
S82 05523				-400	-21	60	8	79	3
S82 05524				-500	-21	66	5	94	<2
S82 05525				+400	-22	100	13	93	2
S82 05526				+300	-22	73	15	103	2
S82 05527				+200	-22	413	28	130	12
S82 05528				+100	-22	154	14	108	<2
S82 05529				+0	-22	187	14	71	6
S82 05530				-100	-22	79	12	79	<2
S82 05531				-200	-22	52	5	91	2
S82 05532				-300	-22	60	8	97	<2
S82 05533				-400	-22	57	7	86	3
S82 05534				-500	-22	51	7	82	<2
S82 05535				+400	-23	102	12	76	<2
S82 05536				+300	-23	121	16	91	3
S82 05537				+200	-23	148	34	118	5
S82 05538				+100	-23	104	9	79	<2
S82 05539				+0	-23	223	14	159	2

REPORTING DATE 9 AUG 1982

~~UB2 - 02786~~

SAMPLE NUMBER	FIELD NUMBER	TYPE	MAP	E/W	N/S	Cu	Pb	Zn	Mo
						PPM	PPM	PPM	PPM
S82 05540				-100	-23	111	16	69	2
S82 05541				-200	-23	55	<4	84	<2
S82 05542				-300	-23	50	<4	111	<2
S82 05543				-400	-23	67	<4	92	<2
S82 05544				+400	-24	110	7	82	3
S82 05545				+300	-24	116	10	92	2
S82 05546				+400	-25	124	<4	58	3
S82 05547				+300	-25	98	11	99	2
S82 05548				+100	-25	57	<4	90	2
S82 05549				+0	-25	110	44	198	3
S82 05550				-100	-25	63	6	112	5
S82 05551				-200	-25	74	<4	101	<2
S82 05552				-300	-25	83	6	75	4
S82 05553				-400	-25	170	5	81	3
S82 05554				+400	-26	121	10	95	3
S82 05555				+300	-26	88	39	45	3
S82 05556				+200	-26	199	43	148	5
S82 05557				+100	-26	124	20	94	4
S82 05558				+0	-26	74	44	151	5
S82 05559				-100	-26	204	<4	72	2
S82 05560				-200	-26	50	<4	97	<2
S82 05561				-300	-26	167	7	82	2
S82 05562				-400	-26	137	11	97	2
S82 05563				+400	-27	132	11	104	2
S82 05564				+300	-27	103	19	124	4
S82 05565				+200	-27	60	9	109	2
S82 05566				+100	-27	55	6	141	4
S82 05567				-100	-27	61	6	120	4
S82 05568				-200	-27	50	6	92	3
S82 05569				-300	-27	52	17	88	2
S82 05570				+400	-28	110	17	123	4
S82 05571				+400	-29	86	29	127	3
S82 05572				+200	-29	123	17	128	<2
S82 05573				+100	-29	56	<4	87	3
S82 05574				+0	-29	75	20	83	4
S82 05575				-100	-29	65	4	90	3

REPORTING DATE 9 AUG 1982

~~VB2 02785~~

SAMPLE NUMBER	FIELD NUMBER	TYPE	MAP	E/W	N/S	Cu	Pb	Zn	Mn	Au
						PPM	PPM	PPM	PPM	PPB
S82 05576				+400	-30	101	14	111	4	
S82 05577				+300	-30	99	17	128	3	
S82 05578				+200	-30	180	23	139	9	
S82 05579				+100	-30	81	14	152	5	
S82 05580				+0	-30	64	7	140	4	
S82 05581				-100	-30	57	4	86	3	
S82 05582				-200	-30	58	4	106	2	
S82 05583				+400	-31	111	12	82	3	
S82 05584				+325	-31	118	13	104	4	
S82 05585				+100	-31	187	18	120	5	
S82 05586				+0	-31	51	<4	113	2	
S82 05587				-100	-31	55	<4	107	3	
S82 05588	AS1-0					575	4	80		
S82 05589	AS1-100					120	6	72		
S82 05590	AS1-200					377	4	74		
S82 05591	AS1-300					126	7	97		
S82 05592	AS1-400					80	5	72		
S82 05593	AS1-500					100	<4	90		
S82 05594	AS1-600					102	5	110		
S82 05595	AS1-700					109	6	92		
S82 05596	AS1-800					163	6	106		
S82 05597	AS1-900					1280	11	271		
S82 05598	AS1-1000					86	6	74		
S82 05599	AS1-1100					64	5	95		
S82 05600	AS1-1200					355	4	78		
S82 05601	AS1-1300					176	5	77		
S82 05602	AS1-1350					70	6	73		
S82 05603	AS2-0					67	6	63		<10
S82 05604	AS2-100					254	9	66		40
S82 05605	AS2-200					1490	135	384		154
S82 05606	AS2-300					94	36	77		<10
S82 05607	AS2-400					104	73	135		24
S82 05608	AS2-500					280	13	602		10
S82 05609	AS2-600					160	45	606		20
S82 05610	AS2-700					234	12	302		<10
S82 05611	AS2-800					238	4	100		16

REPORTING DATE 9 AUG 1982

~~UB2 - 02786~~

SAMPLE NUMBER	FIELD NUMBER	TYPE	MAP	E/W	N/S	Cu	Pb	Zn	Mo	Au
						PPM	PPM	PPM	PPM	PPB
SB2 05612	AS2-900					77	4	66		<10
SB2 05613	AS2-1000					83	7	80		12
SB2 05614	AS2-1100					205	6	79		<10
SB2 05615	AS2-1200					101	4	64		<10
SB2 05616	AS2-1300					240	4	68		16
SB2 05617	AS2-1400					266	6	72		24
SB2 05618	AS2-1500					58	<4	69		<10
SB2 05619	AS2-1600					75	<4	66		<10
SB2 05620	AS2-1700					60	4	52		<10
SB2 05621	AS3-0					68	<4	40		<10
SB2 05622	AS3-100					90	7	52		<10
SB2 05623	AS3-200					1140	79	201		144
SB2 05624	AS3-300					111	11	84		10
SB2 05625	AS3-400					162	44	129		20
SB2 05626	AS3-500					175	47	152		36
SB2 05627	AS3-600					126	25	158		12
SB2 05628	AS3-700					124	10	256		30
SB2 05629	AS3-800					219	12	138		<10
SB2 05630	AS3-900					227	15	136		10
SB2 05631	AS3-1000					139	8	128		10
SB2 05632	AS3-1100					148	14	148		<10
SB2 05633	AS3-1200					263	13	102		<10
SB2 05634	AS3-1300					139	9	115		<10
SB2 05635	AS3-1400					81	5	67		<10
SB2 05636	DA-29					1270	<4	56		72

WHERE ANALYSIS REQUESTED BUT NO VALUES SHOWN, RESULTS ARE TO FOLLOW

ANALYTICAL METHODS FOR SOILS

Cu Pb Zn 20% HNO3 DECOMPOSITION / AAS
 Au AQUA REGIA DECOMPOSITION / SOLVENT EXTRACTION / AAS
 Mo AQUA REGIA DECOMPOSITION / AAS

APPENDIX "E"

GEOCHEM VALUES OF ROCK CHIP SAMPLING

REPORTING DATE 6 AUG 1982

US2 - 025BR

SAMPLE NUMBER	FIELD NUMBER (TRENCH)	HOLE No.	DRILL INTERVAL		Cu PPM	Ag PPM	Au PPB
			FROM	TO			
R82 05442	A-1	ADIT ZONE ↓	10.0	25.0	406	<.4	40
R82 05443	A-1		33.0	40.0	493	<.4	36
R82 05444	A-1		60.0	70.0	1220	1.4	20
R82 05445	A-1		70.0	80.0	291	<.4	22
R82 05446	A-1		80.0	90.0	438	.8	22
R82 05447	A-1		90.0	100.0	282	3.2	<10
R82 05448	A-1		100.0	110.0	414	1.1	<10
R82 05449	A-1		110.0	120.0	319	.4	<10
R82 05450	A-1		120.0	130.0	820	<.4	60
R82 05451	A-1		130.0	140.0	869	<.4	80
R82 05452	A-1		140.0	150.0	171	<.4	<10
R82 05453	A-1		150.0	160.0	311	<.4	16
R82 05454	A-1		160.0	170.0	378	<.4	12
R82 05455	A-1		170.0	180.0	304	1.1	410
R82 05456	A-2		0.0	10.0	95	<.4	<10
R82 05457	A-2		10.0	20.0	64	<.4	<10
R82 05458	A-2		20.0	30.0	767	<.4	80
R82 05459	A-2		30.0	40.0	100	<.4	<10
R82 05460	PA-3		45.0	50.0	734	<.4	<10
R82 05461	PA-3		50.0	56.0	418	.7	20
R82 05462	PA-3		60.0	70.0	2680	.5	<10
R82 05463	PA-3		70.0	77.0	2120	.6	20
R82 05464	PA-3		80.0	90.0	516	1.6	82
R82 05465	PA-3		90.0	100.0	1600	<.4	36
R82 05466	PA-3		100.0	110.0	7390	1.4	<10
R82 05467	PA-3		110.0	120.0	3050	<.4	<10
R82 05468	PA-3		120.0	130.0	1927	<.4	<10
R82 05469	PA-3		130.0	140.0	1509	1.2	<10
R82 05470	PA-3		140.0	150.0	1711	13.0	280
R82 05471	PA-3		150.0	160.0	764	1.9	<10
R82 05472	PA-3		160.0	170.0	1344	1.0	<10
R82 05473	PA-3		170.0	180.0	1076	<.4	<10
R82 05474	PA-3		190.0	200.0	125	<.4	<10
R82 05475	PA-3		200.0	210.0	94	<.4	<10
R82 05476	PA-3		210.0	220.0	664	<.4	<10
R82 05477	PA-3		230.0	240.0	352	<.4	<10

REPORTING DATE 6 AUG 1982

UB2 - 025BR

SAMPLE NUMBER	FIELD NUMBER (TRENCH)	HOLE No.	DRILL INTERVAL		Cu	Ag	Au
			FROM	TO	PPM	PPM	PPB
R82 05478	PA-3	ADIT ZONE	266.0	270.0	425	1.2	<10
R82 05479	PA-3	↓	270.0	280.0	231	.5	<10
R82 05480	PA-3		280.0	290.0	203	1.3	<10
R82 05481	PA-3		300.0	310.0	113	.7	<10
R82 05482	A-4		10.0	20.0	647	<.4	<10
R82 05483	A-4		20.0	30.0	233	<.4	<10
R82 05484	A-4		34.0	40.0	166	.6	<10
R82 05485	A-4		45.0	50.0	484	1.1	<10
R82 05486	A-4		50.0	60.0	1083	.6	<10
R82 05487	A-4		60.0	70.0	596	1.1	<10
R82 05488	A-4		97.0	100.0	319	<.4	<10
R82 05489	A-4		115.0	120.0	285	<.4	<10
R82 05490	A-4		120.0	130.0	306	.9	<10
R82 05491	A-4		145.0	155.0	525	<.4	<10
R82 05492	A-4		170.0	180.0	1003	1.3	<10
R82 05493	A-5		10.0	13.0	520	2.2	<10
R82 05494	A-5		18.0	27.0	606	<.4	<10
R82 05495	A-5		110.0	120.0	195	.9	<10
R82 05496	A-5		124.0	130.0	1532	1.6	<10
R82 05497	A-5		130.0	138.0	291	.6	<10
R82 05498	A-5		145.0	150.0	360	.7	<10
R82 05499	A-5		150.0	160.0	187	<.4	<10
R82 05500	A-5		160.0	170.0	143	<.4	<10
R82 05501	A-5		170.0	175.0	171	<.4	<10
R82 05502	PA-6		20.0	30.0	57	1.3	<10
R82 05503	PA-6		46.0	50.0	1700	1.2	<10
R82 05504	PA-6		50.0	60.0	277	<.4	<10
R82 05505	PA-6		60.0	68.0	840	<.4	<10
R82 05506	PA-6		100.0	110.0	233	.8	<10
R82 05507	PA-6		110.0	120.0	408	.5	<10
R82 05508	PA-6		120.0	130.0	381	.5	<10
R82 05509	PA-6		130.0	140.0	297	.5	<10
R82 05510	PA-6		150.0	160.0	125	3.7	60
R82 05511	PA-6		160.0	165.0	76	1.0	<10
R82 05512	PA-6		170.0	180.0	163	.4	<10
R82 05513	A-7		35.0	40.0	88	<.4	<10

REPORTING DATE 6 AUG 1982

U82 - 0258R

SAMPLE NUMBER	FIELD NUMBER (TRENCH)	HOLE No.	DRILL INTERVAL		Cu PPM	Ag PPM	Au PPB
			FROM	TO			
R82 05514	A-7	ADIT ZONE ↓	40.0	55.0	158	<.4	<10
R82 05515	215-A				5320	.9	612
R82 05516	215-B				522	<.4	<10
R82 06986	PA8		0.0	5.0	111	<.4	<10
R82 06987	PA8		10.0	20.0	142	.6	<10
R82 06988	PA8		20.0	30.0	32	<.4	<10
R82 06989	PA8		40.0	50.0	674	1.0	<10
R82 06990	PA8		50.0	60.0	105	.4	<10
R82 06991	PA8		60.0	70.0	125	<.4	14
R82 06992	PA9		0.0	10.0	102	.8	<10
R82 06993	PA9		10.0	20.0	1648	.8	112
R82 06994	PA9		20.0	30.0	847	.4	10
R82 06995	PA6		90.0	100.0	223	.7	<10

REPORTING DATE 25 AUG 1982

UB2 - 0342R

SAMPLE NUMBER	FIELD NUMBER (TRENCH)	MAP	E/W	N/S	Cu	Ag	Au
					PPM	PPM	PPB
R82 06932	CL1	COYNE ZONE ↓	0.0	10.0	63	<.4	<10
R82 06933	CL1		10.0	20.0	116	<.4	<10
R82 06934	CLT		0.0	1.0	8250	9.2	88
R82 06935	CUI		0.0	5.0	42	<.4	<10
R82 06936	CUI		8.0	10.0	81	.4	<10
R82 06937	C2		0.0	6.0	2200	2.3	36
R82 06938	C2		12.0	16.0	1361	2.0	40
R82 06939	C3		0.0	10.0	767	.9	<10
R82 06940	C3		10.0	18.0	1141	3.4	<10
R82 06941	C4		0.0	5.0	45	.4	<10
R82 06942	C4		20.0	24.0	31	.4	<10
R82 06943	C4B		0.0	2.0	44	<.4	<10
R82 06944	C5		0.0	10.0	54	<.4	<10
R82 06945	C6		0.0	10.0	37	<.4	<10
R82 06946	C6		10.0	15.0	26	<.4	<10
R82 06947	C7		0.0	10.0	42	<.4	<10
R82 06948	C7		10.0	20.0	64	<.4	<10
R82 06949	C7		20.0	30.0	36	<.4	<10
R82 06950	C7		30.0	40.0	48	<.4	<10
R82 06951	C7		45.0	50.0	15	<.4	<10
R82 06952	CA		0.0	10.0	109	1.6	68
R82 06953	CB		0.0	5.0	87	<.4	<10
R82 06954	CB		10.0	20.0	25	<.4	<10
R82 06955	CB		20.0	30.0	20	<.4	<10
R82 06956	C9		0.0	10.0	29	<.4	<10
R82 06957	WT3	WEST ZONE ↓	0.0	10.0	92	<.4	<10
R82 06958	WT3		35.0	40.0	85	<.4	<10
R82 06959	WT3		40.0	50.0	104	<.4	<10
R82 06960	WT3		58.0	60.0	61	<.4	<10
R82 06961	WT3		60.0	70.0	1515	<.4	100
R82 06962	WT3		70.0	80.0	785	<.4	62
R82 06963	WT3		80.0	90.0	698	<.4	<10
R82 06964	WT3		90.0	100.0	444	<.4	82
R82 06965	WT3		100.0	105.0	645	<.4	<10
R82 06966	WT3		115.0	120.0	516	<.4	<10
R82 06967	WT3		125.0	128.0	463	<.4	<10

REPORTING DATE 25 AUG 1982

VB2 - 0342R

SAMPLE NUMBER	FIELD NUMBER (TRENCH)	MAP	E/W	N/S	Cu PPM	Ag PPM	Au PPB
RB2 06968	WT1A	WEST ZONE	14.0	18.0	576	<.4	82
RB2 06969	WT1A		31.0	33.0	694	.9	80
RB2 06970	WT1A	↓	40.0	42.0	3000	<.4	284
RB2 06971	WT1B		70.0	73.0	969	<.4	62
RB2 06972	WT1B		138.0	142.0	2630	<.4	78
RB2 06973	WT1B		170.0	175.0	242	<.4	46
RB2 06974	WT2		10.0	18.0	254	<.4	<10
RB2 06975	WP1		0.0	10.0	893	<.4	74
RB2 06976	WP1		10.0	20.0	217	<.4	20
RB2 06977	WP2		10.0	20.0	1302	<.4	70

ANALYTICAL METHODS FOR ROCKS; DRILL CORE; PERCUSSION REJECT

Au	AQUA REGIA DECOMPOSITION / SOLVENT EXTRACTION / AAS			
Cu	Pb	Zn	Ag	AQUA REGIA DECOMPOSITION / AAS
Mo	HNO3 - HCL04 DECOMPOSITION / AAS			
Hg	FLAMELESS AAS			

US2 - 0524R

SAMPLE NUMBER	FIELD NUMBER	HOLE No.	DRILL INTERVAL		Cu PPM	Pb PPM	Zn PPM	Ag PPM	Au PPB	Mo PPM
			FROM	TO						
R82 10910	274A	NORTHERN PART OF PROPERTY ↓			26	55	179	.9	<10	3
R82 10911	274B				77	10	412	.4	<10	3
R82 10912	274C				176	8	492	.6	<10	2
R82 10913	274D				106	8	340	<.4	<10	3
R82 10914	274E				7	13	157	<.4	<10	2
R82 10915	274F				2	<4	75	<.4	<10	2
R82 10916	274G				3	6	80	<.4	<10	2
R82 10917	276				2	<4	63	<.4	<10	<2
R82 10918	278A				71	4	87	<.4	<10	<2
R82 10919	294A				<1	<4	51	<.4	<10	3
R82 10920	294B			3	<4	78	<.4	<10	2	
R82 10921	294C			8	<4	51	.5	<10	2	
R82 10922	304			60	<4	75	.5	<10	3	
R82 10923	305			7	6	6	.4	<10	3	
R82 10924	282		0.0	10.0	65	<4	76	<.4	<10	<2
R82 10925	282		10.0	20.0	36	<4	76	<.4	<10	2
R82 10926	282		20.0	30.0	61	<4	143	<.4	<10	16
R82 10927	282		30.0	45.0	59	<4	103	<.4	<10	2
R82 10928	282		65.0	75.0	45	<4	143	<.4	<10	2
R82 10929	282		75.0	85.0	45	<4	104	.4	<10	2

APPENDIX "F"

GEOCHEM VALUES OF SELECTED SAMPLES OF OLD DIAMOND DRILL CORE

UB2 - 0107R

0129R
0150R

REPORTING DATE 15 JUL 1982

SAMPLE NUMBER	FIELD NUMBER	DRILL INTERVAL		CU PPM	PB PPM	ZN PPM	AG PPM	AU PPB	MO PPM
		FROM	TO						
R82 02385	71-9	33.0	40.0	782			1.6		
R82 02386	71-9	40.0	50.0	978			2.1	<10	
R82 02387	71-9	50.0	60.0	1659			3.6		
R82 02388	71-9	60.0	70.0	856			2.5	<10	
R82 02389	71-9	70.0	80.0	923			2.7		
R82 02390	71-9	80.0	90.0	2280			5.3	<20	
R82 02391	71-9	90.0	102.5	1526			3.6	<10	
R82 03418	71-9	100.0	110.0	1833		38	.8		
R82 03419	71-9	110.0	118.0	3030		46	1.2	<140	
R82 02392	71-9	121.0	130.0	2270			6.0	<10	
R82 02393	71-9	130.0	138.0	785			2.7		
R82 02394	71-9	153.5	160.0	22			<.4		
R82 02395	71-9	160.0	170.0	102			<.4	<10	
R82 02396	71-9	170.0	180.0	694			1.0		
R82 02397	71-9	180.0	190.0	1082			1.8	<10	
R82 02398	71-9	190.0	200.0	1216			2.9	<10	
R82 02399	71-9	200.0	206.0	981			2.5		
R82 03420	71-9	206.0	210.0	763		67	2.5	<10	
R82 03421	71-9	219.0	230.0	1018		37	1.9	<10	
R82 03422	71-9	230.0	243.5	1029		27	2.6		
R82 03423	71-9	273.0	280.0	604		13	1.5	<10	
R82 03424	71-9	280.0	290.0	432		14	1.3		
R82 03425	71-9	307.0	320.0	681		12	1.3	<10	
R82 03426	71-9	320.0	329.0	471		13	1.5		
R82 02400	71-9	334.0	340.0	1144			2.0	<10	
R82 02401	71-9	340.0	350.0	2057			1.2		
R82 02402	71-9	350.0	360.0	910			<.4		
R82 02403	71-9	360.0	374.0	1009			<.4	<10	
R82 03427	71-9	364.0	381.0	1564		51	3.4	10	
R82 02404	71-9	409.5	420.0	930			1.8	<10	
R82 02405	71-9	420.0	431.0	38			<.4		
R82 03428	71-9	455.0	466.5	492		23	<.4	<10	
R82 02406	71-9	466.5	480.0	1792			1.0		
R82 02407	71-9	480.0	490.0	1720			.9	<12	
R82 02408	71-9	490.0	500.0	2064			.5		
R82 02409	71-9	500.0	510.0	1047			<.4	<16	

REPORTING DATE 15 JUL 1982

VB2 - 0107R

0129R
0525R

SAMPLE NUMBER	FIELD NUMBER	HOLE No.	DRILL INTERVAL		Cu PPM	Pb PPM	Zn PPM	Ag PPM	Au PPB	Mo ppm
			FROM	TO						
RB2 02410	71-9		510.0	520.0	4420			3.0	56	
RB2 02411	71-9		520.0	530.0	1395			<.4		
RB2 02412	71-9		530.0	540.0	1397			<.4	76	
RB2 02413	71-9		540.0	550.0	2210			1.0		
RB2 02414	71-9		550.0	563.0	2290			.6	64	
RB2 02415	M-4		45.5	60.0	2050			1.2	60	
RB2 02416	M-4		60.0	70.0	733			.4	22	
RB2 02417	M-4		70.0	80.0	529			<.4		
RB2 02418	M-4		80.0	90.0	1110			<.4		
RB2 02419	M-4		90.0	100.0	997			<.4	20	
RB2 02420	M-4		100.0	110.0	846			<.4	40	
RB2 02421	M-4		110.0	120.0	1097			<.4		
RB2 02422	M-4		120.0	130.0	351			<.4	<10	
RB2 02423	M-4		130.0	140.0	591			<.4		
RB2 02424	M-4		140.0	150.0	1636			.4	20	
RB2 02425	M-4		150.0	160.0	1194			<.4		
RB2 02426	M-4		160.0	170.0	970			<.4	<10	
RB2 02427	M-4		170.0	180.0	276			<.4		
RB2 02428	M-4		180.0	190.0	917			<.4	24	
RB2 02429	M-4		190.0	200.0	2180			<.4		
RB2 02430	M-4		200.0	210.0	478			<.4		
RB2 02431	M-4		210.0	220.0	5970			1.8	42	
RB2 02432	M-4		220.0	230.0	1353			<.4	20	
RB2 02433	M-4		230.0	240.0	903			<.4		
RB2 02434	M-4		240.0	250.0	2960			<.4	70	
RB2 02435	M-4		250.0	260.0	3400			.8		
RB2 02436	M-4		260.0	273.0	4060			1.2	96	
RB2 02437	M-4		335.0	340.0	751			<.4	20	
RB2 02438	M-4		340.0	352.0	1388			<.4		
RB2 10932	M-2		32.0	42.0	3220		50	.7	44	6
RB2 10933	M-2		42.0	53.0	2850		56	.7		
RB2 10934	M-2		194.5	204.0	2600		64	1.4	80	2
RB2 10935	M-2		204.0	217.0	3050		64	1.0		
RB2 10936	M-2		304.0	314.0	48		21	<.4		
RB2 10937	M-2		314.0	326.0	13		17	<.4	<10	2

REPORTING DATE 17 MAY 1982

0102R
0103R

SAMPLE	FIELD NUMBER	DRILL INTERVAL		Ag	Cu	Au	Mo	Pb	Zn	Hg
		FROM	TO							
R82 01740	72-4	8.0	20.0	7000	3.1	<10	12	<4	79	
R82 01741	72-4	20.0	30.0	7150	1.0	<10		<4	103	<5
R82 01742	72-4	30.0	40.0	4100	.7	<10	14	<4	73	
R82 01743	72-4	40.0	50.0	4870	3.3	<10		<4	89	
R82 01744	72-4	60.0	70.0	4400	<4	<10	8	<4	84	8
R82 01745	72-4	70.0	80.0	3950	.5	<10		<4	61	
R82 01746	72-4	80.0	90.0	4300	1.4	<10		<4	64	
R82 01747	72-4	100.0	110.0	4500	.5	<10	18	<4	57	5
R82 01748	72-4	120.0	130.0	3500	1.5	<10	17	<4	70	
R82 01749	72-4	140.0	150.0	425	<4	<10		<4	90	
R82 01750	72-4	170.0	200.0	3000	6.1	<10		<4	70	
R82 01751	72-4	200.0	210.0	1591	3.3	30	43	<4	60	
R82 01752	72-4	210.0	220.0	1600	3.0	<10		<4	77	<5
R82 01753	72-4	240.0	250.0	3300	6.2	36	52	<4	42	
R82 01754	72-4	250.0	260.0	3140	5.0	<10		<4	77	
R82 01755	72-4	250.0	270.0	1770	3.4	20	30	<4	59	<5
R82 01756	72-4	270.0	280.0	1700	2.4	<10		<4	51	
R82 01757	72-4	280.0	290.0	2020	3.9	<10	28	<4	59	
R82 01758	72-4	310.0	320.0	2500	1.6	<10	26	<4	64	
R82 01759	72-4	400.0	410.0	392	.7	<10	39	4	32	

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SAMPLE	FIELD NUMBER	Job	DRILL INTERVAL		Ag	Cu	Au	Mo	Pb	Zn	Hg
			FROM	TO							
R82 03368	M-3	Job	49.0	60.0	1.4	347	<10	13	40	29	
R82 03369	M-3	V82-0129R	60.0	70.0	1.5	752	<10			34	
R82 03370	M-3	-0130R	70.0	80.0	1.3	912	<10			33	10
R82 03371	M-3	-0131R	80.0	90.0	1.2	1342	10	27		41	
R82 03372	M-3		90.0	100.0	1.8	1175	<10	32		48	
R82 03373	M-3		100.0	110.0	1.9	1445	<10	14		63	
R82 03374	M-3		110.0	120.0	1.2	648	<10			51	
R82 03375	M-3		120.0	130.0	1	1	<10			1	14
R82 03376	M-3		130.0	140.0	<4	409	<10	15		48	
R82 03377	M-3		140.0	150.0	2.1	4490	<10			60	
R82 03378	M-3		150.0	160.0	<4	582	<10	11		54	
R82 03379	M-3		160.0	170.0	<4	437	<10			37	
R82 03380	M-3		170.0	180.0	.6	248	<10	8		37	5
R82 03381	M-3		180.0	190.0	1.2	734	<10			36	
R82 03382	M-3		190.0	200.0	1.6	877	<10	14		36	
R82 03383	M-3		200.0	210.0	1.3	1562	<10			61	10
R82 03384	M-3		210.0	220.0	1.0	750	<10	0		20	

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VB2 - 0129R
 0 2 0 0 R
 0 1 3 0 R
 0 2 0 1 R

SAMPLE NUMBER	FIELD NUMBER	DRILL INTERVAL		Ag	Cu	Au	Mo	Pb	Zn	Hg ppb
		FROM	TO	PPM	PPM	PPB	PPM	PPM	PPM	
RB2 03404	72-6	324.0	334.0	.5	165	410			78	
RB2 03405	72-6	334.0	342.0	.4	318	410			75	
RB2 04632	72-6	356.5	364.0	1.9	111	2210				
RB2 04633	72-6	364.0	370.0	1.8	492	436				
RB2 04634	72-6	370.5	377.0	1.7	1054					
RB2 04635	72-6	377.0	385.0	2.3	1552					
RB2 03406	72-6	385.0	400.0	.9	1194	80			46	
RB2 03407	72-6	417.0	430.0	.4	980	158			46	
RB2 04636	72-6	431.6	440.0	1.9	209	544				
RB2 04637	72-6	440.0	450.0	1.8	334					
RB2 03408	72-6	450.0	460.0	1.4	629	82			45	
RB2 03409	72-6	460.0	470.0	.7	209				31	
RB2 03410	72-6	470.0	480.0	.7	544	314			52	
RB2 03411	72-6	480.0	488.5	.4	574				52	
RB2 03412	A-3	126.0	130.0	1.7	2120			<4	47	
RB2 03413	A-3	130.0	140.0	1.3	1274	10	11	<4	50	
RB2 03414	A-3	140.0	147.0	.4	1177			<4	49	
RB2 03415	A-3	170.0	180.0	.7	2300			<4	52	
RB2 03416	A-3	180.0	190.0	1.7	2720	36	34	<4	42	
RB2 03417	A-3	190.0	193.0	.4	906			<4	28	
RB2 03429	A-1	8.0	20.0	1.4	1976	410	4	<4	62	
RB2 03430	A-1	20.0	30.0	1.1	931	410	4	<4	53	18
RB2 03431	A-1	30.0	40.0	1.2	668	410	7	<4	54	
RB2 03432	A-1	40.0	50.0	1.9	2300	410	7	<4	65	
RB2 03433	A-1	50.0	60.0	2.3	3570	20	15	<4	56	
RB2 03434	A-1	60.0	70.0	1.0	718			<4	46	
RB2 03435	A-1	70.0	80.0	1.2	184	410	6	<4	53	10
RB2 03436	A-1	80.0	90.0	1.4	999			<4	48	
RB2 03437	A-1	90.0	100.0	1.2	1123	410	17	<4	67	
RB2 03438	A-1	100.0	110.0	1.9	2013			<4	58	
RB2 03439	A-1	110.0	120.0	1.2	3650	52	60	<4	70	
RB2 03440	A-1	120.0	130.0	2.3	4610			<4	96	19
RB2 03441	A-1	130.0	140.0	2.1	4200	62	20	<4	81	
RB2 03442	A-1	140.0	150.0	2.0	4710			<4	62	
RB2 03443	A-1	150.0	160.0	3.6	9880	100	14	<4	97	23

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VBZ - 0129R

0130R

0131R

SAMPLE NUMBER	FIELD NUMBER	DRILL INTERVAL		Ag	Cu	Au	Mo	Pb	Zn	Hg
		FROM	TO	PPM	PPM	PPB	PPM	PPM	PPM	ppb
R82 03444	A-1	160.0	170.0	1.1	2280	100	14	<4	55	
R82 03445	A-1	170.0	180.0	.4	848	60	47	<4	57	23
R82 03446	A-1	180.0	190.0	1.7	4240			<4	63	
R82 03447	A-1	190.0	200.0	1.1	5440	80	7	<4	46	
R82 03448	A-1	200.0	210.0	.4	3410			<4	26	
R82 03449	A-1	210.0	220.0	<.4	2450	24	8	<4	23	
R82 03450	A-1	220.0	230.0	.4	840			<4	20	14
R82 03451	A-1	230.0	240.0	<.4	757	24	10	<4	24	
R82 03452	A-1	240.0	250.0	<.4	1191			<4	28	
R82 03453	A-1	250.0	260.0	<.4	1751	40	20	<4	34	
R82 03454	A-1	260.0	270.0	<.4	2250			<4	29	
R82 03455	A-1	270.0	280.0	.5	2570	36	5	<4	29	15
R82 03456	A-1	280.0	290.0	<.4	886			<4	28	
R82 03457	A-1	290.0	300.0	<.4	1416	40	9	<4	29	
R82 03458	A-1	300.0	310.0	<.4	663			<4	20	
R82 03459	A-1	310.0	320.0	<.4	988	64	9	<4	21	10
R82 03460	A-1	320.0	330.0	.6	4580			<4	29	
R82 03461	A-1	330.0	341.0	<.4	3790	102	6	<4	27	
R82 03462	A-1	365.0	370.0	<.4	651	84	16	<4	17	
R82 03463	A-1	370.0	380.0	.8	3200			<4	31	
R82 03464	A-1	380.0	390.0	1.7	4410	84	14	<4	39	22
R82 03465	A-1	390.0	400.0	1.0	2490			<4	25	
R82 03466	A-1	400.0	410.0	1.9	4190	82	8	<4	49	
R82 03467	A-1	410.0	420.0	1.6	3080			<4	40	
R82 03468	A-1	420.0	430.0	.9	1485	40	12	<4	18	80
R82 03469	A-1	430.0	440.0	.7	934	<10	4	<4	27	
R82 03470	A-1	440.0	449.0	<.4	70			<4	56	
R82 03471	72-9	119.0	130.0	<.4	1200	24				
R82 03472	72-9	130.0	140.0	<.4	944					
R82 03473	72-9	140.0	150.0	<.4	1381	36				
R82 03474	72-9	150.0	162.0	<.4	913					
R82 03475	72-9	162.0	179.0	.4	1306	54				
R82 03476	72-9	181.0	196.0	<.4	1422	100				
R82 03477	72-9	196.0	212.0	.4	974	<10				
R82 03478	72-9	212.0	233.0	<.4	565	24				
R82 03479	72-9	237.0	250.0	.4	1098	100				
R82 03480	72-9	250.0	265.0	.4	1262	156				
R82 03481	72-9	265.0	283.0	<.4	2770					
R82 03482	72-9	288.0	294.0	.8	2510	252				

0130RR
0131RR
0200RR
0201R

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JUL 22/82

SAMPLE NUMBER	FIELD NUMBER	DRILL INTERVAL		Ag	Cu	Au	Mo	Pb	Zn	Hg
		FROM	TO	PPM	PPM	PPB	PPM	PPM	PPM	PPB
R82 04587	71-6	25.0	35.0	1.3	583	<10				
R82 04588	71-6	35.0	46.0	2.7	446	<10				
R82 03385	71-6	46.0	64.0	1.4	1134	<10			390	
R82 04589	71-6	64.0	74.0	1.6	366	<10				
R82 04590	71-6	74.0	83.0	1.8	217	<10				
R82 04591	71-6	83.0	94.0	2.8	1531	<10				
R82 04592	71-6	94.0	106.0	2.7	3280	<10				
R82 03386	71-6	164.5	180.0	2.9	2560	<10			330	
R82 03387	71-6	180.0	190.0	1.3	387	<10			257	
R82 03388	71-6	190.0	200.0	.6	319	<10			246	
R82 03389	71-6	200.0	210.0	<.4	394	<10			236	
R82 03390	71-6	210.0	224.0	<.4	428	<10			233	
R82 03391	71-6	251.5	268.5	<.4	177	<10			307	
R82 03392	71-6	285.0	300.0	<.4	187	<10			238	
R82 03393	71-6	300.0	310.0	<.4	646	<10			301	
R82 03394	71-6	310.0	320.0	1.8	3620	<10			255	
R82 03395	71-6	320.0	330.0	2.3	2560	<10			295	
R82 03396	71-6	330.0	340.0	2.5	869	<10			438	
R82 03397	71-6	340.0	351.5	.9	376	<10			951	
R82 03398	71-6	359.5	368.0	.9	565	<10			208	
R82 03399	71-6	368.0	376.0	.5	263	<10			201	
R82 04593	71-6	434.0	444.0	3.2	968	<22				
R82 04594	71-6	444.0	453.0	2.3	1041	<22				
R82 03400	71-6	452.5	469.0	.4	472	34			334	
R82 04595	71-6	469.0	479.0	2.5	389	<10				
R82 04596	71-6	479.0	490.0	3.4	391	<10				
R82 03401	71-6	490.0	508.5	2.8	654	<20			397	
R82 03402	71-6	490.0	508.5	3.3	3020	<20			243	
R82 04597	71-6	508.5	517.0	3.3	971	<42				
R82 04598	71-6	517.0	527.0	13.0	6550	<42				
R82 04599	71-6	527.0	547.0	2.8	1165	<10				
R82 04600	71-6	547.0	557.0	2.7	326	<10				
R82 04601	71-6	557.0	565.5	3.4	584	<10				
R82 04602	71-6	584.5	587.0	2.2	572	<12				
R82 04603	71-6	587.0	597.0	3.7	581	<12				
R82 04604	71-6	597.0	603.5	2.2	115	<10				
R82 03403	71-6	603.5	617.0	1.1	538	<10			134	

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082 - 0200R
0201R

SAMPLE NUMBER	FIELD NUMBER	HOLE No.	DRILL FROM	INTERVAL TO	CU PPM	AG PPM	AU PPB
R82 04581	71-1		437.5	450.0	69	2.6	26
R82 04582	71-3		310.0	320.0	125	1.2	26
R82 04583	71-3		370.0	380.0	177	1.3	<10
R82 04584	71-3		465.0	470.0	107	1.2	<10
R82 04585	71-3		545.0	550.0	390	2.6	<10
R82 04586	71-3		644.0	650.0	626	1.6	<10
R82 04605	71-7		186.0	200.0	137	2.9	192
R82 04606	71-7		200.0	210.0	131	2.0	102
R82 04607	71-7		210.0	220.0	282	3.1	102
R82 04608	71-7		220.0	230.0	364	3.9	232
R82 04609	71-7		230.0	240.0	290	3.4	232
R82 04610	71-7		240.0	250.0	313	3.7	232
R82 04611	71-7		250.0	260.0	135	2.6	140
R82 04612	71-7		260.0	270.0	166	2.9	140
R82 04613	71-7		270.0	280.0	220	3.2	170
R82 04614	71-7		280.0	290.0	276	2.9	170
R82 04615	71-7		290.0	300.0	380	3.3	82
R82 04616	71-7		300.0	310.0	350	3.9	82
R82 04617	71-7		310.0	320.0	1310	4.8	130
R82 04618	71-7		320.0	330.0	97	1.9	130
R82 04619	71-7		330.0	341.5	209	2.2	30
R82 04620	71-7		361.0	370.0	46	1.2	62
R82 04621	71-7		370.0	380.0	654	3.2	62
R82 04622	71-7		380.0	390.0	50	1.7	116
R82 04623	71-7		390.0	400.0	52	2.1	116
R82 04624	71-7		450.0	460.0	199	2.2	120
R82 04625	71-7		460.0	470.0	54	1.5	120
R82 04626	71-7		470.0	480.0	11	1.2	116
R82 04627	71-7		480.0	492.0	41	1.5	116
R82 04628	71-7		507.0	515.0	467	2.1	132
R82 04629	71-7		515.0	523.5	264	1.9	132
R82 04630	71-7		545.0	561.0	181	1.7	<10
R82 04631	71-7		595.0	611.0	102	1.6	<10

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VB2 - 0107R

0129R

0342R

0524R

SAMPLE NUMBER	FIELD NUMBER	HOLE No.	DRILL INTERVAL		Cu PPM	Pb PPM	Zn PPM	Ag PPM	Au PPB
			FROM	TO					
R82 02439	72-11		0.0	20.0	3750			2.7	40
R82 02440	72-11		20.0	30.0	E16700			8.8	40
R82 02441	72-11		30.0	40.0	8320			5.0	60
R82 02442	72-11		40.0	50.0	4340			9.0	62
R82 02443	72-11		50.0	65.0	2660			4.1	72
R82 02444	72-11		65.0	80.0	3310			1.4	<10
R82 02445	72-11		80.0	90.0	5200			2.7	<10
R82 02446	72-11		90.0	100.0	2600			<.4	<10
R82 02447	72-11		100.0	110.0	2092			1.0	20
R82 02448	72-11		110.0	117.5	1402			.9	20
R82 02449	72-11		137.5	150.0	918			<.4	20
R82 02450	72-11		150.0	160.0	810			.9	20
R82 02451	72-11		160.0	170.0	2026			.8	20
R82 02452	72-11		170.0	180.0	1542			1.4	20
R82 02453	72-11		180.0	190.0	1062			<.4	12
R82 02454	72-11		190.0	200.0	643			<.4	12
R82 02455	72-11		200.0	210.0	1229			.4	<10
R82 02456	72-11		210.0	220.0	663			2.6	<10
R82 02457	72-11		220.0	230.0	981			.4	<10
R82 02458	72-11		230.0	243.0	1350			<.4	<10
R82 06978	71-2		220.0	230.0	350			.4	<10
R82 06979	71-2		230.0	240.0	196			<.4	<10
R82 06980	71-2		320.0	330.0	215			<.4	<10
R82 06981	71-2		360.0	370.0	131			<.4	<10
R82 06982	71-2		370.0	380.0	102			<.4	<10
R82 06983	71-2		483.0	490.0	226			.5	<10
R82 06984	71-2		550.0	560.0	130			<.4	<10
R82 06985	71-2		560.0	570.0	144			4.1	<10
R82 10930	72-12		205.0	215.0	2040	4	38	1.2	80 23
R82 10931	72-12		215.0	221.0	3520	<4	37	1.4	80 23

Mo
ppm

VB2 - 0107R

REPORTING DATE 15 JUL 1982
 9 MAY 14 1982 4 MAY 31

0108R
 0109R

SAMPLE NUMBER	FIELD NUMBER	DRILL INTERVAL		CU PPM	PB PPM	ZN PPM	AG PPM	AU PPB	MO PPM	Hg PPB
		FROM	TO							
RB2 02347	72-S-12	49.0	60.0	1092	<4	24	<.4	24	62	
RB2 02348	72-S-12	60.0	66.0	916	<4	30	<.4			8
RB2 02349	72-S-12	82.5	90.0	1728	<4	17	<.4	42	18	
RB2 02350	72-S-12	90.0	100.0	2370	<4	35	.6			
RB2 02351	72-S-12	117.0	133.5	1267	8	25	<.4	26	10	
RB2 02352	72-S-12	168.0	181.0	1478	<4	17	<.4	48	5	
RB2 02353	72-S-12	238.0	250.0	2180	<4	44	<.4	126	22	
RB2 02354	72-S-12	250.0	260.0	3890	<4	30	.8			
RB2 02355	72-S-12	260.0	270.0	3430	<4	44	<.4	160	26	
RB2 02356	72-S-12	270.0	280.0	7310	<4	35	.9			9
RB2 02357	72-S-12	280.0	290.0	2860	<4	25	<.4	20	26	
RB2 02358	72-S-12	290.0	300.0	2230	9	42	.5			
RB2 02359	72-S-12	300.0	310.0	416	<4	57	<.4	10	17	
RB2 02360	72-S-12	310.0	320.0	464	<4	66	<.4			
RB2 02361	72-S-12	320.0	330.0	653	5	66	<.4	32	27	8
RB2 02362	72-S-12	330.0	340.0	3870	<4	72	.8			
RB2 02363	72-S-12	340.0	350.0	4870	<4	90	1.7	50	39	
RB2 02364	72-S-12	350.0	360.0	3180	4	76	1.1			
RB2 02365	72-S-12	360.0	370.0	576	<4	37	<.4	12	50	
RB2 02366	72-S-12	370.0	380.0	1519	<4	33	<.4			<5
RB2 02367	72-S-12	380.0	390.0	819	<4	32	<.4	20	85	
RB2 02368	72-S-12	390.0	400.0	1380	<4	35	.6			
RB2 02369	72-S-12	400.0	410.0	871	<4	59	<.4	410	66	
RB2 02370	72-S-12	410.0	420.0	907	<4	42	<.4			8
RB2 02371	72-S-12	420.0	430.0	2300	<4	57	1.0	20	54	
RB2 02372	72-S-12	430.0	440.0	996	<4	33	<.4			
RB2 02373	72-S-12	440.0	450.0	719	4	31	<.4	14	46	
RB2 02374	72-S-12	450.0	460.0	1497	<4	27	1.0			
RB2 02375	72-S-12	460.0	470.0	920	<4	27	<.4	410	49	7
RB2 02376	72-S-12	470.0	480.0	396	<4	25	<.4			
RB2 02377	72-S-12	480.0	490.0	445	<4	22	<.4	410	52	
RB2 02378	72-S-12	490.0	500.0	760	<4	34	<.4			
RB2 02379	72-S-12	500.0	510.0	367	<4	33	<.4	410	96	
RB2 02380	72-S-12	510.0	520.0	401	<4	28	<.4			
RB2 02381	72-S-12	520.0	530.0	1287	4	38	.6	410	60	5
RB2 02382	72-S-12	530.0	540.0	1176	<4	39	.5			
RB2 02383	72-S-12	540.0	550.0	936	<4	45	.4	410	40	
RB2 02384	72-S-12	550.0	562.0	598	<4	22	<.4			

REPORTING DATE 14 MAY 1982

0102R

SAMPLE NUMBER	FIELD NUMBER	WELL No.	DEPT. INTERVAL FROM	TO	Gr PCM	Gr GCM	Gr RPB	Gr PWT
R82 01755	72-15		30.0	40.0	6170	2.2	24	32
R82 01757	72-15		40.0	50.0	3480	1.4		
R82 01758	72-15		50.0	60.0	1838	1.8	40	18
R82 01759	72-15		60.0	70.0	1577	1.5		
R82 01760	72-15		70.0	80.0	1193	1.4		
R82 01761	72-15		80.0	90.0	733	.7	<10	14
R82 01762	72-15		90.0	100.0	246	0.4		
R82 01763	72-15		130.0	140.0	2800	0.3	42	78
R82 01764	72-15		140.0	150.0	777	0.2		
R82 01765	72-15		150.0	160.0	355	.7		
R82 01766	72-15		170.0	180.0	537	1.1	<10	15
R82 01767	72-15		180.0	190.0	444	.7		
R82 01768	72-15		190.0	200.0	654	1.1		
R82 01769	72-15		200.0	210.0	324	.7	<10	12
R82 01770	72-15		210.0	220.0	648	1.3		
R82 01771	72-15		220.0	230.0	724	1.3	<10	41
R82 01772	72-15		230.0	240.0	607	1.4	<10	29
R82 01773	72-8		110.0	120.0	708	0.4		
R82 01774	72-8		120.0	130.0	1447	1.1	22	33
R82 01775	72-8		130.0	140.0	1457	.7		
R82 01776	72-8		140.0	150.0	1307	.8	42	46
R82 01777	72-8		150.0	160.0	1312	.8		
R82 01778	72-8		170.0	180.0	749	.8	36	32
R82 01779	72-8		180.0	190.0	1777	1.9		
R82 01780	72-8		190.0	200.0	1171	1.0	20	21
R82 01781	72-8		200.0	210.0	1831	1.9		
R82 01782	72-8		210.0	220.0	894	.4	22	18
R82 01783	72-8		220.0	230.0	775	1.1		
R82 01784	72-24		100.0	110.0	387	0.2	162	
R82 01785	72-24		110.0	120.0	1340	1.4	12	
R82 01786	72-24		130.0	140.0	356	0.4	18	
R82 01787	72-24		140.0	150.0	5161	.7		
R82 01788	72-24		200.0	250.0	1153	.4		
R82 01789	72-24		250.0	300.0	521	1.9	14	
R82 01790	72-24		290.0	300.0	1145	.8	70	
R82 01791	72-24		300.0	310.0	6130	6.1		
R82 01792	72-11		40.0	50.0	2875	1.1		
R82 01793	72-13		100.0	140.0	3170	1.4	41	

REPORTING DATE 14 MAY 1982

JOB V82 - 0103R
0102R
0103R

SAMPLE NUMBER	FIELD NUMBER	DRILL INTERVAL (FT)	Co (PPM)	As (PPM)	Cd (PPM)	Mn (PPM)	Pb (PPM)	Cu (PPM)	Hg (PPM)
R82 01774	72-13	140.0 - 170.0	2700	1.3	52				
R82 01795	72-13	250.0 - 260.0	2560	.9	40				
R82 01775	72-13	300.0 - 310.0	3410	.6	51				
R82 01777	72-13	450.0 - 460.0	4117	.5					
R82 01798	72-13	380.0 - 470.0	2500	.7	40				
R82 01799	72-13	560.0 - 582.0	579	0.4	<10				
R82 01800	73-2	40.0 - 50.0	1420	0.4					
R82 01801	73-2	60.0 - 70.0	414	.5	22	6			
R82 01802	73-2	80.0 - 90.0	777	0.2	42	11			
R82 01803	73-2	90.0 - 100.0	333	.2					
R82 01804	73-2	110.0 - 120.0	554	0.1	144	10			
R82 01805	73-2	140.0 - 150.0	453	.5	40	10			
R82 01806	73-2	160.0 - 170.0	427	.5					
R82 01807	73-2	220.0 - 230.0	796	.4					
R82 01808	73-2	230.0 - 240.0	3180	1.2	24	7			
R82 01809	73-2	240.0 - 250.0	6200	1.3					
R82 01810	73-2	280.0 - 290.0	377	0.4	20	6			
R82 01811	73-2	290.0 - 300.0	331	.8					
R82 01812	73-2	300.0 - 310.0	353	1.4	12	7			
R82 01813	73-2	400.0 - 410.0	353	0.4	<10	5			
R82 01814	73-2	420.0 - 430.0	432	0.4					
R82 01815	73-2	440.0 - 450.0	481	0.4					
R82 01816	73-2	490.0 - 500.0	414	1.1	20	8			
R82 01817	73-2	510.0 - 517.0	3490	2.0					
R82 01818	73-1	60.0 - 70.0	215	.3	<10	5	04	67	
R82 01819	73-1	70.0 - 80.0	375	.6			6	126	756
R82 01820	73-1	80.0 - 90.0	319	.4	20	4	14	201	
R82 01821	73-1	90.0 - 100.0	431	.6			25	341	
R82 01822	73-1	100.0 - 110.0	701	0.9	24	7	7	455	
R82 01823	73-1	110.0 - 120.0	580	1.7			11	436	700
R82 01824	73-1	120.0 - 130.0	347	1.3	60	9	04	363	
R82 01825	73-1	130.0 - 140.0	675	.9			11	621	
R82 01826	73-1	150.0 - 160.0	328	0.4	20	3	04	627	
R82 01827	73-1	160.0 - 170.0	450	0.4			8	227	
R82 01828	73-1	170.0 - 180.0	373	0.4	<10	4	7	339	627
R82 01829	73-1	190.0 - 199.0	703	0.4			7	183	
R82 01830	73-1	190.0 - 200.0	367	0.4			04	202	
R82 01831	73-1	200.0 - 210.0	332	0.4	22	4	04	153	

REPORTING DATE 14 MAY 1982

0102R
0103R

SAMPLE NUMBER	FIELD NUMBER	WELL INTERVAL		DU PPM	Am PPM	Pb PPM	Mn PPM	Fe PPM	Zn PPM	Hg PPM
		FROM	TO							
R02 01832	73-1	210.0	230.0	321	0.4			4	193	292
R02 01833	73-1	220.0	230.0	448	.7	10		4	337	
R02 01834	73-1	210.0	230.0	412	.8	16		4	499	2410
R02 01835	73-1	270.0	280.0	472	0.4	<10		7	123	
R02 01836	73-1	310.0	320.0	585	0.4	22		4	116	
R02 01837	73-1	330.0	340.0	638	0.4	5		4	139	1810
R02 01838	73-1	340.0	350.0	1087	1.0	20		4	132	
R02 01839	73-1	350.0	360.0	3800	1.6	5		4	123	
R02 01840	73-1	370.0	370.0	2100	0.7	<10		4	72	2800
R02 01841	73-1	370.0	370.0	378	0.4			4	160	
R02 01842	73-1	390.0	400.0	251	0.4			4	170	
R02 01843	73-1	400.0	410.0	291	.5	<10		4	208	
R02 01844	73-1	410.0	420.0	264	0.4			4	114	458
R02 01845	73-1	430.0	440.0	267	0.4	<10		6	72	
R02 01846	73-1	450.0	460.0	366	0.4	<10		5	184	
R02 01847	73-1	460.0	470.0	507	0.4	8		10	83	600
R02 01848	73-1	480.0	490.0	321	0.1	70		7	380	
R02 01849	73-1	500.0	510.0	593	0.1	36		7	340	
R02 01850	72-14	380.0	390.0	1005	.5	16		4		
R02 01851	72-14	290.0	300.0	2736	.7					
R02 01852	72-14	210.0	320.0	1696	.6	40				
R02 01853	72-14	360.0	370.0	1634	0.4	70				
R02 01854	72-14	370.0	380.0	2740	1.4					
R02 01855	72-14	390.0	400.0	2540	1.2	40				
R02 01856	72-14	410.0	420.0	1634	.7					
R02 01857	72-14	410.0	420.0	772	0.4	180				
R02 01858	72-14	420.0	430.0	1707	.6					
R02 01859	72-14	430.0	440.0	1664	.8	32				
R02 01860	72-14	440.0	450.0	2430	1.6					
R02 01861	72-14	460.0	470.0	2699	.6	60				
R02 01862	72-14	470.0	480.0	1180	.7					
R02 01863	72-14	480.0	490.0	1102	.9					
R02 01864	72-14	490.0	500.0	1097	.5	60				
R02 01865	72-14	510.0	520.0	1270	2.2					
R02 01866	72-14	520.0	530.0	7920	1.1	62				
R02 01867	72-14	530.0	540.0	1133	.4					
R02 01868	72-14	540.0	550.0	1220	.4					
R02 01869	72-14	550.0	560.0	175	0.4	20				

REPORTING DATE 14 MAY 1962

WBR - O.I.O.I.R
O I O 2 R

SAMPLE NUMBER	FIELD NUMBER	HOLE No.	DRILL INTERVAL		Cu PPM	Ag PPM	Au PPM	Hg PPM
			FROM	TO				
R82 01870	72-14		670.0	680.0	965	<.4		
R82 01871	72-14		610.0	620.0	1701	1.1		22
R82 01872	72-14		580.0	610.0	1458	.5		22
R82 01873	72-14		550.0	560.0	210	<.4		
R82 01874	72-14		570.0	575.0	183	<.4		<10
R82 01875	72-14		570.0	580.0	895	<.4		
R82 01876	72-14		550.0	555.0	4720	1.4		46
R82 01877	72-14		590.0	700.0	1057	<.4		
R82 01878	72-14		240.0	250.0	323	<.4		110
R82 01879	72-14		200.0	210.0	1544	.7		
R82 01880	72-14		190.0	200.0	2570	1.8		42
R82 01881	72-14		150.0	160.0	2420	.9		
R82 01882	72-14		140.0	150.0	1722	.5		30
R82 01883	72-14		130.0	140.0	768	<.4		
R82 01884	72-14		70.0	80.0	790	<.4		
R82 01885	72-14		50.0	60.0	1113	.7		102

REPORTING DATE 19 MAY 1962

WBR - O.I.O.I.R
O I O 2 R

SAMPLE NUMBER	FIELD NUMBER	HOLE No.	DRILL INTERVAL		Cu PPM	Ag PPM	Au PPM	Hg PPM
			FROM	TO				
R82 01886	72-14		30.0	40.0	2500	1.3	10	
R82 01887	72-14		490.0	500.0	2400	1.4	50	7
R82 01888	72-14		70.0	80.0	3700	.7	75	
R82 01889	72-14		70.0	75.0	1547	<.4		
R82 01890	72-14		70.0	80.0	1780	<.4		40
R82 01891	72-14		80.0	90.0	319	<.4		
R82 01892	72-14		90.0	120.0	818	<.4		20
R82 01893	72-14		110.0	120.0	1250	<.4		10
R82 01894	72-14		120.0	130.0	425	<.4		
R82 01895	72-14		130.0	140.0	1026	<.4		40
R82 01896	72-14		140.0	150.0	1801	<.4		
R82 01897	72-14		170.0	180.0	3720	.5		
R82 01898	72-14		180.0	190.0	1851	<.4		54
R82 01899	72-14		190.0	200.0	3820	1.0		60
R82 01900	72-14		200.0	210.0	2430	.6		

					Cu	V82- Ag	0111R 0102R Au	Mo
R82 01901	72-16	240.0	250.0	1396	1.0		40	
R82 01902	72-16	250.0	260.0	1369	.7			
R82 01903	72-16	270.0	280.0	1731	1.1		36	
R82 01904	72-16	260.0	270.0	1025	.5			
R82 01905	72-16	330.0	340.0	4713	.9		100	
R82 01906	72-16	350.0	360.0	2260	.6			
R82 01907	72-16	310.0	320.0	1708	<.4		26	
R82 01908	72-16	440.0	450.0	2386	<.4		20	
R82 01909	72-16	470.0	480.0	5070	1.8		102	
R82 01910	72-16	430.0	440.0	31	<.4			
R82 01911	72-16	490.0	500.0	35	<.4		<10	
R82 01912	72-16	150.0	160.0	1698	<.4		20	7
R82 01913	72-17	0.0	20.0	443	1.0		<10	
R82 01914	72-17	20.0	30.0	314	<.4		<10	
R82 01915	72-17	40.0	50.0	1369	1.1		10	
R82 01916	72-17	50.0	60.0	552	.7			
R82 01917	72-17	60.0	70.0	269	4.3		40	
R82 01918	72-17	70.0	80.0	167	1.2			
R82 01919	72-17	80.0	90.0	170	2.3			
R82 01920	72-17	90.0	100.0	187	.5		16	
R82 01921	72-17	110.0	120.0	197	1.7		<10	
R82 01922	72-17	130.0	140.0	130	1.1			
R82 01923	72-17	140.0	150.0	201	.7		<10	
R82 01924	72-17	150.0	160.0	304	1.3		<10	
R82 01925	72-17	160.0	170.0	369	<.4			
R82 01926	72-17	170.0	180.0	321	<.4		<10	
R82 01927	72-17	180.0	190.0	357	<.4			
R82 01928	72-17	200.0	210.0	424	1.0		20	
R82 01929	72-17	210.0	220.0	322	1.0			
R82 01930	72-17	220.0	230.0	323	1.3			
R82 01931	72-17	230.0	240.0	791	.6		12	
R82 01932	72-17	240.0	250.0	735	1.2			
R82 01933	72-18	250.0	270.0	4760	.9		10	
R82 01934	72-18	270.0	280.0	1391	.6			
R82 01935	72-18	290.0	300.0	602	.5		<10	
R82 01936	72-18	300.0	310.0	453	<.4			
R82 01937	72-18	310.0	320.0	622	<.4		<10	
R82 01938	72-18	320.0	330.0	661	.6			
R82 01939	72-18	350.0	360.0	408	.9		<10	

V82- 0524R
 0525R
 0526R

SAMPLE NUMBER	FIELD NUMBER	HOLE No.	DRILL INTERVAL		CU PPM	PB PPM	ZN PPM	AG PPM	AU PPB	Hg PPB
			FROM	TO						
R82 10938	69-7		36.0	46.0	1541		45	<.4	222	140
R82 10939	69-7		46.0	56.0	2650		35	.9		
R82 10940	69-7		56.0	66.0	3210		33	.7	160	24
R82 10941	69-7		66.0	79.5	1594		33	.7		
R82 10942	69-7		151.5	160.0	792		23	.4	120	
R82 10943	69-7		160.0	171.0	1012		26	.5		
R82 10944	69-7		171.0	180.0	372		22	<.4	56	78
R82 10945	69-7		180.0	190.0	1436		27	.4		
R82 10946	69-7		190.0	200.0	1145		23	.4	80	
R82 10947	69-7		200.0	210.0	1823		27	.5		
R82 10948	69-7		210.0	220.0	677		22	<.4	54	23
R82 10949	69-7		220.0	230.0	531		27	<.4		
R82 10950	69-7		394.0	400.0	1953		19	.6	22	
R82 10951	69-7		400.0	416.0	1589		13	.4		
R82 10952	69-7		440.0	450.0	1571		17	.5	60	27
R82 10953	69-7		450.0	461.0	1502		23	<.4		

APPENDIX "G"

GEOCHEM VALUES OF 1982 DIAMOND DRILL CORE

URD - 052410

SAMPLE NUMBER	FIELD NUMBER	HOLE No.	DRILL INTERVAL		Cu PPM	Pb PPM	Zn PPM	Ag PPM	Au PPB	Mo PPM
			FROM	TO						
R82 10954	82-1		30.0	40.0	63	<4	184	<.4	<10	<2
R82 10955	82-1		40.0	50.0	121	5	238	<.4	<10	<2
R82 10956	82-1		50.0	60.0	106	9	397	.6	<10	2
R82 10957	82-1		60.0	70.0	56	8	329	.4	<10	<2
R82 10958	82-1		70.0	80.0	94	4	155	.8	<10	<2
R82 10959	82-1		80.0	90.0	107	5	162	1.4	10	<2
R82 10960	82-1		90.0	100.0	114	8	151	1.3	10	<2
R82 10961	82-1		100.0	110.0	27	6	366	1.3	<10	<2
R82 10962	82-1		110.0	120.0	145	9	203	2.0	<10	<2
R82 10963	82-1		120.0	130.0	53	7	205	1.3	<10	<2
R82 10964	82-1		130.0	140.0	84	6	207	.4	<10	<2
R82 10965	82-1		140.0	150.0	158	40	219	2.6	10	<2
R82 10966	82-1		150.0	160.0	124	65	458	2.6	<10	<2
R82 10967	82-1		160.0	170.0	111	139	344	2.0	<10	<2
R82 10968	82-1		170.0	180.0	124	24	661	2.7	10	<2
R82 10969	82-1		180.0	190.0	138	9	365	1.7	<10	<2
R82 10970	82-1		190.0	200.0	96	14	347	1.4	20	<2
R82 10971	82-1		200.0	210.0	116	15	531	1.7	10	<2
R82 10972	82-1		210.0	220.0	112	5	802	1.7	<10	<2
R82 10973	82-1		220.0	230.0	204	24	267	1.8	20	<2
R82 10974	82-1		230.0	240.0	143	42	779	2.0	30	<2
R82 10975	82-1		240.0	250.0	135	26	950	2.6	10	<2
R82 10976	82-1		250.0	260.0	80	9	1290	1.1	<10	<2
R82 10977	82-1		260.0	270.0	124	10	1104	.9	<10	<2
R82 10978	82-1		270.0	280.0	73	9	533	.6	<10	<2
R82 10979	82-1		280.0	290.0	144	4	246	.5	<10	<2
R82 10980	82-1		290.0	300.0	126	<4	186	.6	<10	<2
R82 10981	82-1		300.0	310.0	130	<4	196	<.4	<10	<2
R82 10982	82-1		310.0	320.0	124	<4	246	<.4	<10	<2
R82 10983	82-1		320.0	330.0	27	<4	198	<.4	10	<2
R82 10984	82-1		330.0	340.0	120	6	217	.5	<10	<2
R82 10985	82-1		340.0	350.0	136	4	157	.5	<10	<2
R82 10986	82-1		350.0	360.0	26	<4	147	<.4	<10	<2
R82 10987	82-1		360.0	370.0	77	4	211	.7	<10	<2
R82 10988	82-1		370.0	375.0	273	8	435	.7	<10	<2

VB2 - 0524R/0555R

RB2 10989	82-2	10.0	20.0	134	4	327	.5	<10	<2
RB2 10990	82-2	20.0	30.0	91	<4	231	.9	<10	2
RB2 10991	82-2	30.0	40.0	261	64	374	1.8	<10	<2
RB2 10992	82-2	40.0	50.0	171	20	371	.8	<10	<2
RB2 10993	82-2	50.0	60.0	68	11	252	<.4	<10	<2
RB2 10994	82-2	60.0	70.0	92	9	816	.8	<10	2
RB2 10995	82-2	70.0	80.0	84	56	731	.8	<10	2
RB2 10996	82-2	80.0	90.0	222	61	637	1.0	<10	3
RB2 10997	82-2	90.0	100.0	416	33	555	1.3	<10	3
RB2 10998	82-2	100.0	110.0	590	10	921	1.3	<10	2
RB2 10999	82-2	110.0	120.0	186	15	658	1.0	<10	26
RB2 11000	82-2	120.0	130.0	98	15	861	1.3	<10	2
RB2 11001	82-2	130.0	140.0	67	7	732	.7	<10	3
RB2 11002	82-2	140.0	150.0	176	7	682	.8	<10	2
RB2 11003	82-2	150.0	160.0	511	6	418	1.1	<10	<2
RB2 11004	82-2	160.0	170.0	55	18	1629	.7	<10	<2
RB2 11005	82-2	170.0	180.0	32	12	500	.6	<10	2
RB2 11006	82-2	180.0	190.0	87	20	407	1.0	<10	2
RB2 11007	82-2	190.0	200.0	160	8	410	.7	<10	2
RB2 11008	82-2	200.0	210.0	159	7	377	.5	<10	<2
RB2 11009	82-2	210.0	220.0	210	35	329	2.2	<10	2
RB2 11010	82-2	220.0	230.0	217	12	187	3.8	24	22
RB2 11011	82-2	230.0	240.0	206	9	159	2.1	<10	4
RB2 11012 (A)	82-2	240.0	250.0	51	7	150	.4	<10	2
RB2 11013 (B)	82-2	240.0	250.0	74	8	176	.8	<10	6
RB2 11014	82-2	250.0	260.0	249	10	285	1.8	<10	2
RB2 11015	82-2	260.0	270.0	229	11	186	2.6	<10	2
RB2 11016	82-2	270.0	280.0	57	9	129	1.6	<10	2
RB2 11017	82-2	280.0	290.0	130	5	231	1.5	<10	2
RB2 11018	82-2	290.0	300.0	29	4	213	1.5	<10	2
RB2 11019	82-2	300.0	310.0	53	10	354	1.2	<10	2
RB2 11020	82-2	310.0	320.0	77	6	302	1.3	<10	2
RB2 11021	82-2	320.0	330.0	146	11	287	1.0	<10	<2
RB2 11022	82-2	330.0	340.0	108	7	764	1.1	<10	<2
RB2 11023	82-2	350.0	359.0	136	20	166	.5	<10	2

UB2 - 0554R/0555R

SAMPLE NUMBER	FIELD NUMBER	HOLE No.	DRILL INTERVAL		Cu PPM	Pb PPM	Zn PPM	Ag PPM	Au PPB	Mo PPM
			FROM	TO						
R82 11601	82-3		10.0	20.0	143	31	230	.4	<10	3
R82 11602	82-3		20.0	30.0	223	11	387	<.4	<10	4
R82 11603	82-3		30.0	40.0	204	9	394	<.4	<10	6
R82 11604	82-3		40.0	50.0	519	22	302	.6	<10	5
R82 11605	82-3		50.0	60.0	583	9	307	<.4	<10	3
R82 11606	82-3		60.0	70.0	220	3	398	<.4	<10	3
R82 11607	82-3		70.0	80.0	545	31	520	.5	<10	6
R82 11608	82-3		80.0	90.0	310	17	405	<.4	<10	5
R82 11609	82-3		90.0	100.0	541	15	392	<.4	<10	3
R82 11610	82-3		100.0	110.0	919	25	1550	.7	<10	4
R82 11611	82-3		110.0	120.0	667	228	E10380	15.2	136	69
R82 11612	82-3		120.0	130.0	677	165	5510	35.2	420	46
R82 11613	82-3		130.0	140.0	168	16	874	<.4	<10	4
R82 11614	82-3		140.0	150.0	624	42	6300	5.2	40	7
R82 11615	82-3		150.0	160.0	126	20	480	.6	<10	5
R82 11616	82-3		160.0	170.0	190	41	427	.7	<10	3
R82 11617	82-3		170.0	180.0	115	26	204	<.4	<10	2
R82 11618	82-3		180.0	190.0	77	20	118	<.4	<10	2
R82 11619	82-3		190.0	200.0	639	14	780	1.3	<10	2
R82 11620	82-3		200.0	210.0	1042	13	255	1.4	<10	3
R82 11621	82-3		210.0	220.0	1015	10	422	.8	<10	3
R82 11622	82-3		220.0	230.0	1061	5	350	1.4	<10	2
R82 11623	82-3		230.0	233.0	1002	7	137	1.1	<10	4
R82 11624	82-3		233.0	235.0	E29800	13	185	17.0	20	5
R82 11625	82-3		235.0	240.5	6050	12	233	4.3	20	7
R82 11626	82-3		240.5	242.5	E12030	10	156	10.3	<10	<2
R82 11627	82-3		242.5	246.0	1370	5	98	<.4	<10	<2
R82 11628	82-3		246.0	251.0	E14960	15	131	7.7	20	3
R82 11629	82-3		251.0	256.0	7580	18	95	3.5	<10	<2
R82 11630	82-3		256.0	268.0	912	34	140	.5	<10	2
R82 11631	82-3		268.0	274.0	3670	16	577	2.0	<10	<2
R82 11632	82-3		274.0	278.5	199	15	177	<.4	<10	<2
R82 11633	82-3		278.5	285.0	955	6	619	.6	<10	<2
R82 11634	82-3		285.0	293.5	935	10	526	.8	<10	2
R82 11635	82-3		293.5	299.0	958	8	295	.9	<10	<2
R82 11636	82-3		299.0	308.0	347	8	500	<.4	<10	2

Hg
ppb

18

16

567

51

50

38

82

UB2 - 0554R

555R

SAMPLE NUMBER	FIELD NUMBER	HOLE No.	DRILL INTERVAL		Cu	Pb	Zn	Ag	Au	Mn
			FROM	TO	PPM	PPM	PPM	PPM	PPB	PPM
R82 11637	82-3		308.0	318.0	316	10	471	.5	<10	<2
R82 11638	82-3		318.0	328.0	1219	14	614	1.0	<10	2
R82 11639	82-3		328.0	333.5	1379	14	1950	.6	<10	2
R82 11640	82-3		333.5	337.5	E12600	13	4620	7.9	<10	3
R82 11641	82-3		337.5	342.0	9720	<4	130	5.7	<10	6
R82 11642	82-3		342.0	244.5	8620	4	209	5.1	20	3
R82 11643	82-3		344.5	350.0	E12770	36	181	8.5	20	2
R82 11644	82-3		350.0	360.0	9980	21	184	5.4	20	2
R82 11645	82-3		360.0	370.0	8750	4	115	3.8	20	3
R82 11646	82-3		3770.0	378.0	E12110	20	183	11.1	142	3
R82 11647	82-3		378.0	390.0	716	20	174	3.2	<10	3
R82 11648	82-3		390.0	400.0	400	24	145	10.9	26	4
R82 11649	82-3		400.0	410.0	179	11	819	2.3	<10	2
R82 11650	82-3		410.0	420.0	340	8	456	1.5	<10	<2
R82 11651	82-3		420.0	430.0	136	7	639	1.4	<10	<2
R82 11652	82-3		430.0	440.0	253	10	956	.9	<10	2
R82 11653	82-3		440.0	450.0	814	7	184	.9	<10	2
R82 11654	82-3		450.0	460.0	527	<4	968	1.6	<10	2
R82 11655	82-3		460.0	468.0	624	<4	286	.6	<10	<2
R82 11656	82-3		468.0	476.0	716	4	182	1.3	<10	<2
R82 11657	82-3		476.0	486.0	510	6	1350	2.5	<10	2
R82 11658	82-3		486.0	493.5	678	10	277	3.4	<10	<2
R82 11659	82-3		493.5	502.0	508	6	978	1.6	<10	<2
R82 11660	82-3		502.0	509.0	8280	14	254	11.1	20	<2
R82 11661 (A)	82-3		509.0	519.0	1041	14	238	2.1	20	4
R82 11662 (B)	82-3		509.0	519.0	633	7	265	2.1	30	5
R82 11663	82-3		529.0	540.0	861	4	189	2.3	<10	3
R82 11664	82-3		540.0	550.0	465	23	418	3.9	12	3
R82 11665	82-3		550.0	560.0	408	20	118	2.0	<10	3
R82 11666	82-3		560.0	570.0	215	4	344	.8	<10	2
R82 11667	82-3		570.0	572.0	41	7	93	<.4	<10	2
R82 11668	82-3		572.0	580.0	308	30	268	1.4	10	<2
R82 11669	82-3		580.0	590.0	246	4	210	.8	<10	2
R82 11670	82-3		590.0	600.0	189	4	186	1.1	<10	2
R82 11671	82-3		600.0	610.0	441	<4	174	1.5	<10	2
R82 11672	82-3		610.0	620.0	390	5	223	2.3	20	3
R82 11673	82-3		620.0	630.0	859	<4	305	.8	<10	2
R82 11674	82-3		630.0	635.0	194	<4	209	1.0	22	3

Hg
ppb
140
45
90
62
36
20
20

UG2 - 0579R
0581R

SAMPLE NUMBER	FIELD NUMBER	HOLE No.	DRILL INTERVAL		Cu PPM	Pb PPM	Zn PPM	As PPM	Cd PPM	Mo PPM
			FROM	TO						
R82 12286	DH82-4		10.0	20.0	164	<4	41	<.4	<10	<2
R82 12287	DH82-4		20.0	30.0	127	4	37	<.4	<10	16
R82 12288	DH82-4		30.0	40.0	404	<4	33	.4	<10	3
R82 12289	DH82-4		40.0	50.0	1491	<4	36	1.6	<10	7
R82 12290	DH82-4		50.0	60.0	757	<4	59	.9	<10	10
R82 12291	DH82-4		60.0	70.0	371	<4	71	.5	<10	32
R82 12292	DH82-4		70.0	80.0	90	<4	69	<.4	<10	3
R82 12293	DH82-4		80.0	90.0	1187	4	86	2.6	<10	20
R82 12294	DH82-4		90.0	100.0	661	4	49	1.2	<10	12
R82 12295	DH82-4		100.0	110.0	939	8	45	1.9	<10	32
R82 12296	DH82-4		110.0	120.0	424	<4	40	<.4	<10	3
R82 12297	DH82-4		120.0	130.0	974	<4	45	1.3	<10	7
R82 12298	DH82-4		130.0	140.0	1177	<4	38	1.8	<10	11
R82 12299	DH82-4		140.0	150.0	507	<4	45	.7	<10	4
R82 12300	DH82-4		150.0	160.0	365	4	29	<.4	<10	3
R82 12301	DH82-4		160.0	170.0	581	<4	52	1.7	<10	5
R82 12302	DH82-4		170.0	180.0	711	<4	42	1.2	<10	18
R82 12303	DH82-4		180.0	190.0	1265	<4	47	1.9	<10	17
R82 12304	DH82-4		190.0	200.0	519	4	44	1.1	<10	28
R82 12305	DH82-4		200.0	210.0	446	9	53	.8	<10	31
R82 12306	DH82-4		210.0	220.0	210	7	63	<.4	<10	11
R82 12307	DH82-4		220.0	230.0	615	4	45	.9	<10	39
R82 12308	DH82-4		230.0	240.0	1276	4	61	2.1	<10	5
R82 12309	DH82-4		240.0	250.0	958	4	55	1.5	<10	3
R82 12310	DH82-4		250.0	260.0	236	7	46	<.4	<10	3
R82 12311	DH82-4		260.0	270.0	337	<4	40	.8	<10	7
R82 12312	DH82-4		270.0	280.0	1665	<4	74	3.2	<10	26
R82 12313	DH82-4		280.0	290.0	1365	<4	71	3.6	<10	47
R82 12314	DH82-4		290.0	300.0	487	<4	41	.8	<10	2
R82 12315	DH82-4		300.0	310.0	938	<4	50	1.8	<10	16
R82 12316	DH82-4		310.0	320.0	731	<4	49	1.3	<10	3
R82 12317	DH82-4		320.0	330.0	663	<4	56	1.3	<10	5
R82 12318	DH82-4		330.0	340.0	354	<4	39	.7	<10	2
R82 12319	DH82-4		340.0	350.0	493	<4	26	.6	<10	9
R82 12320	DH82-4		350.0	360.0	510	<4	29	.9	<10	<2
R82 12321	DH82-4		360.0	370.0	1230	<4	34	2.6	<10	39

UB2 - 0579R
0581R

SAMPLE NUMBER	FIELD NUMBER	HOLE No.	DRILL INTERVAL		Cu PPM	Pb PPM	Zn PPM	Sb PPM	AU PPM	Mo PPM	Hg ppb
			FROM	TO							
R82 12322	DH82-4		370.0	380.0	205	<4	57	.4	<10	6	
R82 12323	DH82-4		380.0	383.0	929	<4	31	1.2	<10	55	<5
R82 12324	DH82-5		90.0	100.0	227	<4	39	.4	<10	5	
R82 12325	DH82-5		100.0	110.0	813	<4	42	.8	<10	3	5
R82 12326	DH82-5		110.0	120.0	469	<4	49	.6	<10	3	
R82 12327	DH82-5		120.0	130.0	184	<4	52	<.4	<10	3	
R82 12328	DH82-5		130.0	140.0	64	<4	46	<.4	<10	3	<5
R82 12329	DH82-5		140.0	150.0	62	<4	51	<.4	<10	2	
R82 12330	DH82-5		150.0	160.0	105	<4	64	<.4	<10	4	
R82 12331	DH82-5		160.0	170.0	152	<4	58	.4	44	2	
R82 12332	DH82-5		170.0	180.0	102	<4	54	<.4	<10	4	<5
R82 12333	DH82-5		180.0	190.0	314	<4	56	1.5	<10	5	
R82 12334	DH82-5		190.0	200.0	216	<4	58	1.0	<10	4	
R82 12335	DH82-5		200.0	210.0	52	5	47	<.4	<10	2	
R82 12336	DH82-5		210.0	220.0	6	<4	64	<.4	<10	<2	
R82 12337	DH82-5		220.0	230.0	146	6	44	<.4	<10	8	
R82 12338	DH82-5		230.0	240.0	102	<4	47	.7	<10	2	<5
R82 12339	DH82-5		240.0	250.0	118	<4	41	2.1	130	3	
R82 12340	DH82-5		250.0	260.0	165	4	73	.4	<10	4	
R82 12341	DH82-5		260.0	270.0	319	<4	84	.8	<10	54	
R82 12342	DH82-5		270.0	280.0	538	6	83	2.1	<10	65	
R82 12343	DH82-5		280.0	290.0	310	<4	70	1.0	<10	14	5
R82 12344	DH82-5		290.0	300.0	337	<4	42	.7	<10	47	
R82 12345	DH82-5		300.0	310.0	375	<4	57	.8	<10	11	
R82 12346	DH82-5		310.0	320.0	377	<4	29	.6	<10	6	
R82 12347	DH82-5		320.0	330.0	347	<4	30	.6	<10	9	<5
R82 12348	DH82-5		330.0	340.0	135	5	55	<.4	<10	4	
R82 12349	DH82-5		340.0	350.0	195	<4	67	.5	<10	25	
R82 12350	DH82-5		350.0	360.0	219	<4	49	.4	32	50	
R82 12351	DH82-5		360.0	370.0	408	<4	52	.8	<10	37	
R82 12352	DH82-5		370.0	380.0	196	<4	56	.4	<10	36	<5
R82 12353	DH82-5		380.0	390.0	139	<4	54	.5	<10	126	
R82 12354	DH82-5		390.0	400.0	272	<4	46	.6	<10	27	
R82 12355	DH82-5		400.0	409.0	306	<4	47	.7	<10	13	
R82 12356	DH82-6		74.0	85.0	260	11	66	.8	<10	3	12
R82 12357	DH82-6		85.0	103.0	299	27	132	1.0	<10	4	

V82-0579R
0581R

SAMPLE NUMBER	FIELD NUMBER	HOLE No.	DRILL INTERVAL		Cu	Pb	Zn	Ag	Mo	H ₂ O ppb
			FROM	TO	PPM	PPM	PPM	PPM	PPM	
R82 12358	DH82-6		105.0	115.0	217	6	76	.8	<10	3
R82 12359	DH82-6		115.0	125.0	539	5	84	1.9	<10	22
R82 12360	DH82-6		125.0	135.0	256	<4	75	.4	<10	2
R82 12361	DH82-6		135.0	160.0	169	<4	82	<.4	<10	3
R82 12362	DH82-6		160.0	170.0	157	<4	109	<.4	<10	18
R82 12363	DH82-6		170.0	175.0	79	<4	79	<.4	<10	33
R82 12364	DH82-6		175.0	185.0	143	5	84	<.4	<10	103
R82 12365	DH82-6		185.0	195.0	86	<4	84	<.4	<10	6
R82 12366	DH82-6		195.0	205.0	68	<4	86	<.4	<10	92
R82 12367	DH82-6		207.0	220.0	141	<4	70	<.4	<10	61
R82 12368	DH82-6		220.0	230.0	180	<4	90	<.4	<10	23
R82 12369	DH82-6		230.0	240.0	93	13	91	<.4	<10	34
R82 12370	DH82-6		240.0	250.0	149	5	90	<.4	<10	5
R82 12371	DH82-6		250.0	260.0	92	6	90	<.4	<10	39
R82 12372	DH82-6		260.0	270.0	124	<4	85	<.4	<10	7
R82 12373	DH82-6		270.0	280.0	147	<4	96	<.4	<10	3
R82 12374	DH82-6		280.0	290.0	186	<4	94	<.4	<10	8
R82 12375	DH82-6		290.0	300.0	145	<4	106	<.4	<10	16
R82 12376	DH82-6		300.0	310.0	149	<4	100	<.4	<10	25
R82 12377	DH82-6		310.0	320.0	101	<4	113	<.4	<10	10
R82 12378	DH82-6		320.0	330.0	175	<4	138	<.4	<10	21
R82 12379	DH82-6		330.0	340.0	140	<4	134	<.4	<10	31
R82 12380	DH82-6		340.0	351.0	127	<4	97	<.4	<10	45

APPENDIX "H"

GEOCHEM VALUES OF SELECTED SAMPLES OF OLD PERCUSSION HOLE REJECT MATERIAL

REPORTING DATE 15 JUL 1982			UB2 - 0104R				
MAY 4 1982			O.L.A.S.S.				
SAMPLE NUMBER	FIELD NUMBER	HOLE No.	DRILL INTERVAL		CU PPM	AG PPM	AU PPB
			FROM	TO			
RB2 02050	P8		10.0	20.0	60	<.4	410
RB2 02051	P8		20.0	30.0	86	<.4	
RB2 02052	P8		50.0	60.0	66	<.4	10
RB2 02053	P8		70.0	80.0	107	<.4	410
RB2 02054	P8		80.0	90.0	47	<.4	
RB2 02055	P9		30.0	40.0	109	<.4	<10
RB2 02056	P9		50.0	60.0	117	<.4	410
RB2 02057	P9		60.0	70.0	85	<.4	
RB2 02058	P9		80.0	90.0	112	<.4	410
RB2 02059	P9		90.0	100.0	97	<.4	
RB2 02060	P13		0.0	10.0	15	<.4	410
RB2 02061	P13		10.0	20.0	41	<.4	
RB2 02062	P13		20.0	30.0	122	<.4	410
RB2 02063	P13		30.0	40.0	66	<.4	
RB2 02064	P13		40.0	50.0	91	<.4	14
RB2 02065	P13		50.0	60.0	91	<.4	
RB2 02066	P13		60.0	70.0	98	<.4	12
RB2 02067	P13		70.0	80.0	109	<.4	410
RB2 02068	P13		80.0	90.0	83	<.4	
RB2 02069	P13		90.0	100.0	108	<.4	410
RB2 02070	P14		10.0	20.0	4960	1.3	42
RB2 02071	P14		20.0	30.0	539	<.4	
RB2 02072	P14		30.0	40.0	132	<.4	410
RB2 02073	P14		40.0	50.0	175	<.4	
RB2 02074	P14		50.0	60.0	320	<.4	14
RB2 02075	P14		60.0	70.0	238	<.4	
RB2 02076	P14		70.0	80.0	139	<.4	410
RB2 02077	P14		80.0	90.0	139	<.4	
RB2 02078	P14		90.0	100.0	59	<.4	10
RB2 02079	P14		100.0	110.0	45	<.4	
RB2 02080	P15		10.0	20.0	1408	<.4	60
RB2 02081	P15		20.0	30.0	1116	<.4	
RB2 02082	P15		50.0	60.0	1014	<.4	20
RB2 02083	P15		60.0	70.0	564	<.4	
RB2 02084	P15		100.0	110.0	556	<.4	48
RB2 02085	P15		120.0	130.0	654	<.4	64

REPORTING DATE 15 JUL 1982

UB2 - 0104R

MAY 4/82

P.L. 25.5

SAMPLE NUMBER	FIELD NUMBER	HOLE No.	DRILL INTERVAL		CU PPM	AG PPM	AU PPB
			FROM	TO			
R82 02086	P15		150.0	160.0	520	<.4	22
R82 02087	P15		170.0	180.0	390	<.4	60
R82 02088	P15		210.0	220.0	498	<.4	82
R82 02089	P15		220.0	230.0	502	<.4	
R82 02090	P16		30.0	40.0	115	<.4	<10
R82 02091	P16		50.0	60.0	115	<.4	<10
R82 02092	P17		40.0	50.0	106	<.4	<10
R82 02093	P17		50.0	60.0	145	<.4	410
R82 02094	P17		60.0	70.0	179	<.4	
R82 02095	P19		10.0	20.0	223	<.4	10
R82 02096	P19		30.0	40.0	136	<.4	<10
R82 02097	P20		30.0	40.0	104	<.4	<10
R82 02098	P20		50.0	60.0	251	<.4	<10
R82 02099	P20		90.0	100.0	209	<.4	12
R82 02100	P22		10.0	20.0	56	<.4	<10
R82 02101	P22		40.0	50.0	49	<.4	<10
R82 02102	P24		30.0	40.0	19	<.4	410
R82 02103	P24		40.0	50.0	8	<.4	
R82 02104	P24		50.0	60.0	26	<.4	410
R82 02105	P24		60.0	70.0	24	<.4	
R82 02106	P26		11.0	20.0	18	<.4	<10
R82 02107	P26		20.0	30.0	47	<.4	410
R82 02108	P26		30.0	40.0	61	<.4	22
R82 02109	P28		0.0	10.0	2280	.8	
R82 02110	P28		10.0	20.0	2510	<.4	20
R82 02111	P28		20.0	30.0	1363	1.4	
R82 02112	P28		30.0	40.0	1472	<.4	10
R82 02113	P29		0.0	10.0	71	<.4	
R82 02114	P29		30.0	40.0	79	<.4	<10
R82 02115	P29		60.0	70.0	85	<.4	410
R82 02116	P29		70.0	80.0	103	<.4	
R82 02117	P29		80.0	90.0	303	<.4	410
R82 02118	P29		90.0	100.0	517	.7	
R82 02119	P29		110.0	120.0	261	<.4	410
R82 02120	P29		120.0	130.0	277	.4	
R82 02121	P29		130.0	140.0	289	.4	

REPORTING DATE 15 JUL 1982

4 MAY 4(82)

VB2 - 0104R

0105R

SAMPLE NUMBER	FIELD NUMBER	HOLE No.	DRILL INTERVAL		CU PPM	AG PPM	AU PPB
			FROM	TO			
R82 02122	F31		50.0	60.0	202	<.4	410
R82 02123	F31		60.0	70.0	290	<.4	
R82 02124	F31		70.0	80.0	274	<.4	410
R82 02125	F31		80.0	90.0	103	<.4	
R82 02126	F31		160.0	170.0	67	<.4	20
R82 02127	F31		170.0	180.0	51	<.4	
R82 02128	F31		180.0	190.0	72	<.4	410
R82 02129	F31		190.0	200.0	79	<.4	
R82 02130	F31		200.0	210.0	36	<.4	410
R82 02131	F31		210.0	220.0	89	<.4	
R82 02132	F31		220.0	230.0	73	<.4	12
R82 02133	F31		230.0	240.0	43	<.4	
R82 02134	F31		240.0	250.0	41	<.4	24
R82 02135	F33		30.0	40.0	368	<.4	20
R82 02136	F33		70.0	80.0	435	<.4	20
R82 02137	F33		100.0	110.0	1025	1.3	20
R82 02138	F33		110.0	120.0	3360	2.1	
R82 02139	F33		130.0	140.0	1083	<.4	410
R82 02140	F33		140.0	146.0	2750	.9	
R82 02141	F36		30.0	40.0	333	<.4	20
R82 02142	F36		40.0	50.0	377	.6	410
R82 02143	F36		50.0	60.0	552	.4	
R82 02144	F38		10.0	20.0	1006	<.4	<10
R82 02145	F38		30.0	40.0	740	.4	12
R82 02146	F38		50.0	60.0	662	.6	30
R82 02147	F38		90.0	100.0	350	<.4	
R82 02148	F38		100.0	110.0	889	<.4	14
R82 02149	F39		0.0	10.0	387	.9	20
R82 02150	F39		40.0	50.0	417	1.1	22
R82 02151	F39		60.0	70.0	200	1.5	410
R82 02152	F39		70.0	80.0	501	<.4	
R82 02153	F39		80.0	90.0	1015	<.4	410
R82 02154	F39		90.0	100.0	825	.4	
R82 02155	F39		110.0	120.0	998	<.4	410
R82 02156	F39		120.0	130.0	2310	1.0	
R82 02157	F39		130.0	140.0	1397	1.3	

REPORTING DATE 15 JUL 1982

UB2 - 0104R

4 MAY 4/82

0105R

SAMPLE NUMBER	FIELD NUMBER	HOLE No.	DRILL. INTERVAL		CU PPM	AG PPM	AU PPB
			FROM	TO			
RB2 02158	P39		140.0	150.0	737	1.2	20
RB2 02159	P39		150.0	160.0	589	.8	210
RB2 02160	P39		160.0	170.0	499	<.4	
RB2 02161	P39		170.0	180.0	444	.6	210
RB2 02162	P39		180.0	190.0	437	<.4	
RB2 02163	P40		0.0	10.0	116	<.4	20
RB2 02164	P40		20.0	30.0	131	<.4	20
RB2 02165	P40		30.0	40.0	161	<.4	
RB2 02166	P40		40.0	50.0	205	<.4	210
RB2 02167	P40		50.0	60.0	389	<.4	
RB2 02168	P41		10.0	20.0	1382	<.4	10
RB2 02169	P41		20.0	30.0	214	<.4	
RB2 02170	P41		30.0	40.0	239	<.4	22
RB2 02171	P41		40.0	50.0	253	3.1	
RB2 02172	P44		0.0	10.0	238	1.1	<10
RB2 02173	P44		30.0	40.0	155	<.4	<10
RB2 02174	P44		50.0	60.0	246	.4	<10
RB2 02175	P44		70.0	80.0	121	<.4	210
RB2 02176	P44		80.0	90.0	166	<.4	
RB2 02177	P44		110.0	100.0	129	1.0	14
RB2 02178	P44		120.0	130.0	101	1.5	
RB2 02179	P44		130.0	140.0	97	1.2	<10
RB2 02180	P44		150.0	160.0	3340	.8	<10
RB2 02181	P50		20.0	30.0	3260	<.4	<10
RB2 02182	P50		70.0	80.0	1990	1.2	14
RB2 02183	P51		10.0	20.0	3310	<.4	210
RB2 02184	P51		20.0	30.0	6850	<.4	
RB2 02185	P51		30.0	40.0	2550	1.6	
RB2 02186	P51		40.0	50.0	1314	1.3	24
RB2 02187	P51		50.0	60.0	1101	2.2	
RB2 02188	P51		140.0	150.0	510	.7	<10

REPORTING DATE 3 MAY 1982

US2 - 0112R
0105R

SAMPLE NUMBER	FIELD NUMBER	HOLE No.	DRILL INTERVAL FROM	TO	Cu PPM	Ag PPM	Au PPM
R82 02187	P54		0.0	10.0	1234	<.4	<62
R82 02190	P54		10.0	20.0	1011	<.4	
R82 02191	P54		20.0	40.0	772	1.7	<42
R82 02192	P54		40.0	50.0	541	.6	
R82 02193	P54		60.0	70.0	626	1.1	160
R82 02194	P54		80.0	90.0	597	1.0	<10
R82 02195	P54		90.0	100.0	494	.4	
R82 02196	P54		130.0	140.0	845	<.4	20
R82 02197	P55		0.0	10.0	711	<.4	<10
R82 02198	P55		20.0	30.0	577	<.4	<10
R82 02199	P55		30.0	40.0	314	<.4	
R82 02200	P55		60.0	70.0	1088	<.4	<58
R82 02201	P55		70.0	80.0	1292	<.4	
R82 02202	P55		110.0	120.0	323	.6	<80
R82 02203	P55		130.0	140.0	3220	2.0	
R82 02204	P55		150.0	140.0	416	.9	<76
R82 02205	P55		140.0	150.0	4270	.5	
R82 02206	P56		0.0	10.0	2010	<.5	<10
R82 02207	P56		10.0	20.0	323	<.4	
R82 02208	P56		20.0	30.0	219	.6	<10
R82 02209	P56		30.0	40.0	398	.4	
R82 02210	P56		60.0	70.0	273	.6	<10
R82 02211	P56		80.0	90.0	302	.3	<10
R82 02212	P57		20.0	30.0	331	.5	<10
R82 02213	P57		30.0	40.0	156	<.4	
R82 02214	P57		40.0	50.0	227	<.4	
R82 02215	P57		50.0	60.0	200	<.4	
R82 02216	P57		60.0	70.0	213	<.4	<10
R82 02217	P58		50.0	60.0	104	.4	<30
R82 02218	P58		60.0	70.0	88	<.4	
R82 02219	P58		80.0	90.0	113	<.4	<10
R82 02220	P58		90.0	100.0	127	<.4	
R82 02221	P58		100.0	110.0	182	2.7	10
R82 02222	P59		10.0	20.0	1128	.7	<86
R82 02223	P59		20.0	30.0	1070	.3	
R82 02224	P59		10.0	20.0	2430	<.4	
R82 02225	P59		20.0	30.0	1344	.8	
R82 02226	P60		30.0	40.0	407	.4	<10

REPORTING DATE 3 MAY 1982

US2 - 0132R
0105R

SAMPLE NUMBER	FIELD NUMBER	HOLE No.	DRILL INTERVAL		Ca PPM	Fe PPM	Cu PPM
			FROM	TO			
R01 02227	P60		10.0	20.0	361	.5	10
R02 02228	P60		20.0	30.0	436	.5	<10
R02 02229	P60		30.0	40.0	531	<.4	<10
R02 02230	P60		40.0	70.0	424	<.4	<10
R02 02231	P60		70.0	80.0	437	.4	<10
R02 02232	P60		80.0	90.0	328	<.4	<10
R02 02233	P60		90.0	100.0	224	<.4	<10
R02 02234	P61		10.0	20.0	326	.4	10
R02 02235	P61		20.0	30.0	376	<.4	<10
R02 02236	P61		30.0	40.0	274	.4	<10
R02 02237	P63		10.0	20.0	995	3.7	28
R02 02238	P63		20.0	30.0	629	2.9	24
R02 02239	P63		30.0	40.0	487	1.5	20
R02 02240	P63		50.0	60.0	392	1.0	<10
R02 02241	P63		70.0	80.0	1023	<.4	<10
R02 02242	P63		90.0	100.0	2330	1.7	20
R02 02243	P63		100.0	110.0	1431	.7	<10
R02 02244	P63		110.0	120.0	1747	2.1	20
R02 02245	P63		120.0	130.0	1278	.6	14
R02 02246	P63		140.0	150.0	1650	1.3	<10
R02 02247	P63		160.0	170.0	1437	.9	20
R02 02248	P63		170.0	180.0	1064	1.6	14
R02 02249	P63		180.0	190.0	1110	1.2	<10
R02 02250	P63		200.0	250.0	1006	1.2	42

REPORTING DATE 25 AUG 1982

US2 - 0343R

R02 06996	RHC1				258	<.4	<10
R02 06997	RHC2				10	<.4	<10
R02 06998	RHC3				163	<.4	<10
R02 06999	RHC4				11	<.4	<10

APPENDIX "I"

COMINCO LTD.

EXPLORATION

WESTERN DISTRICT

STATEMENT OF QUALIFICATIONS

I, DAVID T. MEHNER, OF THE CITY OF VERNON BRITISH COLUMBIA, HEREBY CERTIFY:

1. THAT I AM a Geologist residing at 1715 - 41st Avenue, Vernon, British Columbia, with a business address at 4405 - 28th Street, Vernon, British Columbia.

2. THAT I GRADUATED with a B.Sc. Hon. Degree in Geology in 1976 and an M.Sc. Degree in 1982 from the University of Manitoba.

3. THAT I HAVE practised geology with Cominco Ltd. from October 1979 to present and as such have a personal knowledge of the facts which I hereinafter depose.

DATED THIS 6th DAY OF DECEMBER, 1982 AT VERNON, BRITISH COLUMBIA.

SIGNED



David T. Mehner, Geologist I