DRILLING REPORT

804381

ON THE

CVS COPPER PROSPECT

KAMLOOPS MINING DIVISION, B.C.

N.T.S. 92 I/7W

BY

S. G. Enns, P.Geo.

December, 1993

missing
Fig. 3 ddh loc map
(see IP grid map
in pocket)
Fig. 9 - hole 8
barren hole

LOCATION: 50° 22' North Latitude
120° 52' West Longitude

OWNER/OPERATOR: Hudson Bay Exploration and Development Co. Limited

CONTRACTOR: Aucumo Resources Ltd.

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1. SUMMARY

The CVS property is located in south central British Columbia, on the southeast side of the Guichon Creek batholith near the well known, Highland Valley mining camp. Twenty two claims (282 units) cover an area of favourable geology.

Past exploration was fragmented and indicated widely scattered copper mineralization as well as weak chargeability anomalies on the property. Results from work by the Copper Valley Syndicate demonstrated a strong regional copper anomaly within streams and lakes in the area covered by the claims. In 1993, a new IP/resistivity survey, conducted by Walcott and Associates, identified four large, chargeability anomalies (Roscoe, Billy Lake, Superior North and Superior South) within Chataway granodiorite in the eastern part of the property.

This report presents the results from a drilling programme conducted by Aucumo Resources on behalf of Hudson Bay Exploration and Development. The drilling tested the significance of the chargeability anomalies and the weak IP response in the Mystery Lake region. A total of 3,918.6 metres of NQ (47.6mm) core was drilled in 13 holes between September 8 and November 2, 1993.

Positive results from drilling in the Mystery Lake area justify more exploration in this region. The hydrothermal system identified earlier by mapping was extended south 400 metres and clearly demonstrates a close relationship with copper mineralization. An intrusive complex was intersected in hole 93CVS-12 with at least three varieties of porphyry displaying varying degrees of alteration. In the best hole (93CVS-11) intense pervasive hydrothermal alteration displays a complex sequence of events. Mineralization is dominantly chalcocite-bornite-quartz veining, with the best intercepts containing 1.36 percent copper across 3 metres in local high grade mineralization. Lower copper levels are more typical of the mineralization and include a 12 metre interval of 2664 ppm copper. Sufficient copper mineralization was encountered to explain the weak chargeability anomaly south of Mystery Lake.

Of the four large anomalies tested, the Roscoe anomaly is the best mineralized, but it contains weak levels of copper. Isolated and sporadic chalcocite-bornite veins and widely distributed, weak, hypogene and supergene native copper characterize the mineralization. Hydrothermal alteration is localized and displays a weak relationship with copper. Isolated 4 to 6 metre intervals contain 1100 to 1500 ppm copper, with one, best mineralized zone of 4890 ppm copper over 5 metres at a depth of 66 metres from hole 93CVS-6.

On the Billy Lake anomaly, similar, but weaker mineralization with more widely distributed native copper was intersected. Significant hydrothermal alteration is absent. Two samples each with isolated high grade veins are 0.39 percent over 2.4 metres and 0.33 percent copper over one metre. Drilling of the Superior North and Superior South anomalies intersected low levels of mineralization and inconsequential hydrothermal alteration.

CONCLUSIONS

The best porphyry target lies near Mystery Lake in the northwest part of the property, in geology underlain by Bethlehem and Skeena plutonic phases. Here a large, known alteration system is related to copper mineralization. Known alteration was extended an additional 400 metres south by the drilling. A complex sequence of igneous and alteration events is also indicated by the recent drilling. Although copper mineralization is subeconomic, significant elements of porphyry style mineralization are present and justify continued exploration. These include the presence of copper mineralization related to a complex, intense alteration system, and the prosence of several intrusive porphyry phases. Definition of the ultimate extent and geometry of the hydrothermal system is important so that an effective drilling pattern can be planned.

Chataway and Roscoe granodiorite underlying the Roscoe, Billy Lake, Superior North and Superior South anomalies has limited potential to host significant mineralization. The mineralization is low in grade and not directly related to

intense, widespread hydrothermal alteration. Instead the dominantly chalcocite-bornite-quartz veining which is structurally controlled, appears to be a late event, probably caused by residual copper-bearing fluid precipitation along fractures. Localized copper grades of 0.3 to 0.9 percent copper were intersected, but the density of copper-bearing veins does not maintain economic copper grades over significant widths. Native copper in minor amounts, although widespread, only enhances the copper grades by 200 to 600 ppm. Northeast directed drill holes gave the best core-axis angles on mineralized veins.

The Roscoe anomaly contains the best mineralization of the four large IP anomalies that were drilled. Within it, the extent of mineralization in the down-dip extension of "Art's Showing" was generally disappointing.

The source for IP anomalies underlying the Superior North and Superior South anomalies are not understood at present. This suggests the importance of caution in the interpretation of inverse chargeability modelling.

Magnetic susceptibility readings of unaltered core are not sufficiently disparate to consistently distinguish lithologies. However, hydrothermally altered core is much lower than unaltered rock; consistently it shows magnetic susceptibility half to two orders of magnitude lower, reflecting destruction of magnetite.

RECOMMENDATIONS

Continued exploration is recommended for the western region of the property at both regional and detailed levels.

Regional work is recommended as follows:

1. A compilation of all existing exploration data to a common scale of 1:5,000 should cover the CVS-15, and Roscoe claims as well as claims west of, and adjacent to CVS-14. Early completion of this step would ensure its use in directing fieldwork.

2. The unstaked area between the CVS property and Highland Valley Corporation's claims to the west should be covered by prospecting and staked if necessary.

3. An exploration joint venture with the Highland Valley Corporation should be considered, especially if this includes use of relevant exploration data on their claims (which might be substantial).

Detailed work should cover the area extending from 88+00N to the south limit of the CVS-14 claim in the Mystery Lake-Roscoe Lake region and is recommended as follows:

1. About 6 line-kilometres of IP/resistivity "fill in" surveying will provide complete IP coverage at 200 metre line-spacing. A concurrent ground magnetometer survey should be completed, minimally covering the same grid at 200 metre line spacing, with 100 metre "fill-in" where necessary, to outline the magnetite-destructive hydrothermal alteration. Results from these surveys should provide good resolution in sulphide distribution within the alteration zone.

2. Geology (especially hydrothermal alteration) should be mapped in greater detail in the Mystery Lake area to define width and geometry of the hydrothermal system. The significance of the related intrusive complex in the

vicinity of 93CVS-12 should be determined. About 7 or 8 days would be adequate to re-map the old trenches (at a scale of 1:2000) and possible outcrops from new logging road construction.

3. Drilling of at least two sections across the hydrothermal system will evaluate width and tenor of any copper mineralization with a level of confidence.

No further work is recommended on the Roscoe, Billy Lake, Superior North and Superior South IP anomalies.

Respectfully submitted,

December, 1993

S. Enns, P.Geo.

2.0 INTRODUCTION

During the fall of 1993, Aucumo Resources conducted a diamond drilling programme on the CVS property in the Highland Valley region. The exploration target was a porphyry copper deposit, similar to the deposits of the nearby Highland Valley Camp. Claims on the CVS property cover a less explored region, that lies east of the south projection of the Lornex fault.

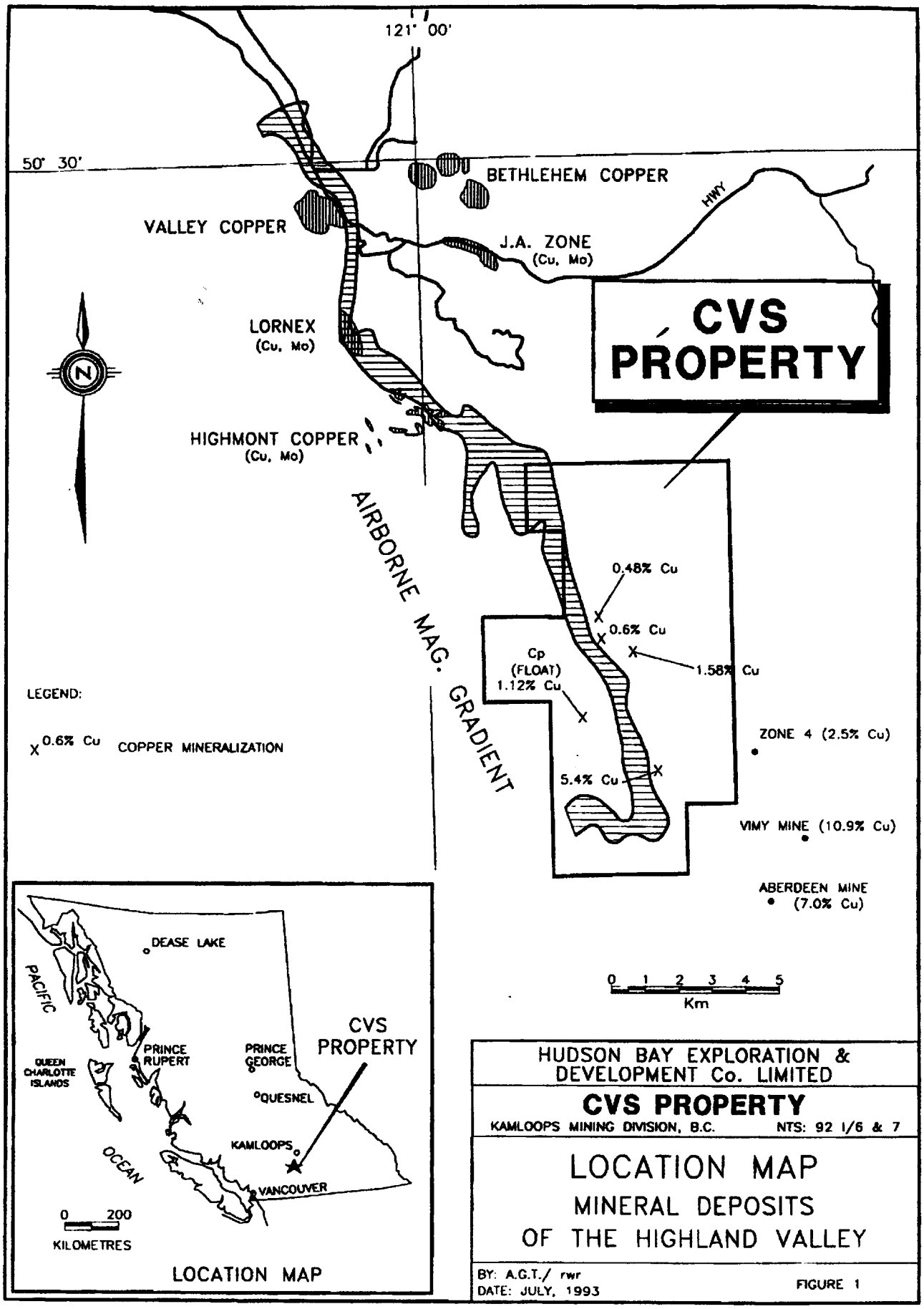
The objective of the 1993 drilling programme was to test a number of IP/resistivity anomalies for mineralization. These anomalies were outlined in the an earlier survey described by Walcott (1993). The anomalies selected for drilling include, four large chargeability anomalies surrounding Chataway Lake, a deep inverse chargeability anomaly, and the Mystery Lake hydrothermal system associated with a weak chargeability anomaly in the northwest part of the property.

3.0 LOCATION, ACCESS AND PREVIOUS WORK

The CVS copper prospect is located in south central British Columbia (Figure 1), within the southeast portion of the Guichon Creek batholith. It lies on the south margin of the Highland Valley camp, about seven kilometres south of the Highmont Copper Mine. A point at the centre of the property is defined by latitude 50°21'N and longitude 120°55'W.

The claims are located 25 kilometres north of Merritt, the nearest service and supplies centre. Access to the centre of the property is provided by the Pimanus-Tyner fire access road which intersects the Merritt-Ashcroft highway approximately nine kilometres west of Merritt. A network of old exploration and active logging roads provides additional access to most parts of the property. The Chataway Lake Lodge was used a base of operation for the drilling project.

Previous work was conducted on the claims and surrounding area since 1887. Known, nearby deposits are the Aberdeen mine, the Vimy mine both of which are located to the southeast, and the Highland Valley deposits immediately north of the claims.



HUDSON BAY EXPLORATION & DEVELOPMENT Co. LIMITED

CVS PROPERTY

KAMLOOPS MINING DIVISION, B.C. NTS: 92 I/6 & 7

LOCATION MAP

MINERAL DEPOSITS OF THE HIGHLAND VALLEY

BY: A.G.T./ rwr
DATE: JULY, 1993

FIGURE 1

Exploration in the area began in 1956 with the Chataway Mining Syndicate (Troup 1992). Their work continued until the late 1970's and resulted in locating at least five copper showings. Since about 1980, the area was staked intermittently by individuals, but exploration was hampered by the extensive glacial till cover. The present CVS and CS claims were staked by Copper Valley Syndicate beginning in 1991. In 1993, Aucumo Resources Ltd. conducted exploration on behalf of Hudson Bay Exploration and Development Co. Limited.

4.0 PHYSIOGRAPHY, VEGETATION AND CLIMATE

Topography of the claims is typical of the plateau-like terrain found in the Highland Valley region. The relief is between 100 and 220m with maximum elevations of 1550m at the north end of the claims. Local canyons from glacial outwash streams provide the most extreme relief in the southwest and southeast parts of the claim block. Chataway Creek is a broad, thick, overburden-covered valley with no exposures.

The forest generally consists of well-spaced lodgepole pine with intervals of dense, second-growth pine stands. Scattered patches of aspen and birch occur on south and west-facing slopes, and spruce, fir and mountain alder grow in damp areas along streams and swamps. Low lying areas are covered by swampy meadows in many areas, and frequently these reflect the southeast glacial direction.

The climate is typical of the southern interior, with warm, dry summers and moderately long, cold winters. Temperature extremes extend from more than +30°C in August to -30°C in January. Average annual precipitation is 31 cm, with most of this falling as snow in late fall, winter and early spring. The snow-free period lasts from late April to mid-November. Due to the light snowfall, geophysical surveys and diamond drilling activities can be conducted throughout the winter months.

5.0 PROPERTY INFORMATION

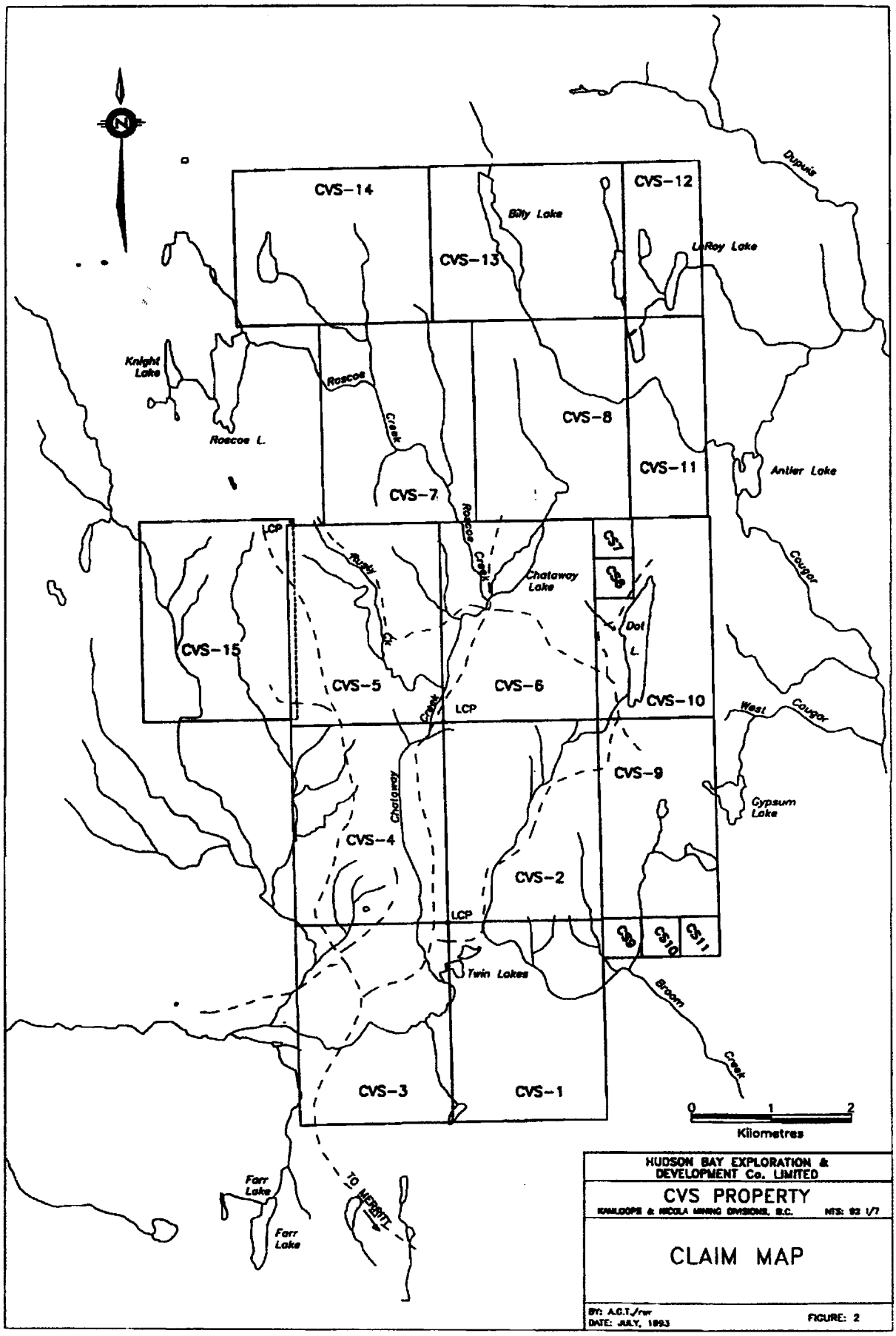
Most of the claims on the property are in the Kamloops Mining Division; some of the eastern claims are within the Nicola Mining Division. At present, the property contains 282 units in 22 claims as shown in Figure 2. The pertinent claims data are given in Table 1.

6.0 GEOLOGY

The CVS claim group covers the southeast portion of the Upper Triassic Guichon Creek batholith which intrudes sedimentary and volcanic rocks of the Permian Cache Creek Formation, and the overlying Upper Triassic Nicola Formation, a dominantly volcanic group. Sediments of the Jurassic Ashcroft Formation unconformably overlie the intrusive rocks at a number of locations.

The Guichon Creek batholith is a concentrically zoned plutonic complex with phases that generally show decreasing mineral grain size and increasing mafic content from a central core to the outer margin. McMillan (1978, 1985) subdivided the plutonic rocks into two broad categories. The outer, older phases include more mafic rocks of granodiorite to quartz diorite composition known as Border and Highland Valley phases. The Highland Valley phase was subdivided into Guichon and Chataway granodiorite varieties. Younger, inner phases, form the second broad category and include a transitional Bethlehem granodiorite phase, followed by Skeena granodiorite to quartz monzonite and Bethsaida quartz monzonite. Quartz aplite, granophyre and various quartz feldspar dykes are also included with the younger inner phases.

The younger magmas are more evolved and much less mafic. They are important because timing of the ore disposition in the Highland Valley mines is associated with their emplacement. Significant Cu-Mo mineralization is situated within, and along the margins of Bethsaida, Skeena or Bethlehem phase rocks.



HUDSON BAY EXPLORATION & DEVELOPMENT Co. LIMITED

CVS PROPERTY

KAMLOOPS & NICOLA MINING DIVISIONS, B.C. NTS: 92 I/7

CLAIM MAP

BY: A.C.T./rw
DATE: JULY, 1993

FIGURE: 2

TABLE I: CVS CLAIMS DATA

CLAIM	TENURE NUMBER	UNITS	DATE STAKED	CLAIM EXPIRY	RECORDED WORK	APPLIED WORK	YEARS WORK
CVS- 1	219885	20	May 10/91	98	Nov. 08/93	$8,000.00	2
CVS- 2	219886	20	May 11/91	98	Nov. 08/93	$8,000.00	2
CVS- 3	219887	20	May 10/91	98	Nov. 08/93	$8,000.00	2
CVS- 4	219888	20	May 11/91	98	Nov. 08/93	$8,000.00	2
CVS- 5	219889	20	May 12/91	98	Nov. 08/93	$4,000.00	1
CVS- 6	219890	20	May 12/91	98	Nov. 08/93	$4,000.00	1
CVS- 7	308682	20	Apr. 18/92	98	Nov. 08/93	$4,000.00	1
CVS- 8	308683	20	Apr. 19/92	98	Nov. 08/93	$4,000.00	1
CVS- 9	314627	18	Nov. 10/92	98	Nov. 08/93	$7,200.00	2
CVS-10	314628	15	Nov. 10/92	98	Nov. 08/93	$3,000.00	1
CVS-11	314629	10	Nov. 10/92	98	Nov. 08/93	$2,000.00	1
CVS-12	314630	8	Nov. 11/92	98	Nov. 08/93	$1,600.00	1
CVS-13	314631	20	Nov. 09/92	98	Nov. 08/93	$4,000.00	1
CVS-14	314632	20	Nov. 10/92	98	Nov. 08/93	$4,000.00	1
CVS-15	318562	20	June 21/93	98	Nov. 08/93	$4,000.00	1
CVS-16	322235	5	Nov. 03/93	98	Nov. 08/93	$2,500.00	4
CS- 9	314633	1	Nov. 07/92	98	Nov. 08/93	$400.00	2
CS-10	314634	1	Nov. 07/92	98	Nov. 08/93	$400.00	2
CS-11	314635	1	Nov. 07/92	98	Nov. 08/93	$400.00	2
CS-12	322236	1	Nov. 03/93	98	Nov. 08/93	$500.00	4
CS-13	322237	1	Nov. 03/93	98	Nov. 08/93	$500.00	4
CS-14	322238	1	Nov. 03/93	98	Nov. 08/93	$500.00	4
22		282				$79,000.00	

The CVS claims lie in an area of sparse outcrop that received less attention by previous exploration activity and government mapping.

Mapping by Aucumo Resources Ltd. (Enns and Troup, 1993) showed that the eastern two-thirds of the CVS claims is underlain by Chataway granodiorite. The west third of the claims is broadly underlain by a northwest-trending plutonic succession. From east to west, this includes Roscoe granodiorite (200 to 1200m wide), Bethlehem granodiorite (500 to 800m wide), Skeena granodiorite to quartz monzonite (about 1000m wide) and Bethsaida quartz monzonite. Contacts between different phases are variable. They may be sharp, but often are gradational with definite observable changes in rock type up to hundreds of metres apart. This is particularly the case with Bethlehem, Skeena and Bethsaida phases.

The Roscoe granodiorite is an informally named mappable phase that occurs between the Bethlehem and Chataway granodiorite. Although displaying an average lower total mafic content than Chataway phase, it is probably a sub-phase of, and transitional to, Chataway granodiorite, because it shares some of the characteristic features of the Chataway phase, such as uniformly distributed, dominantly hornblende mafic content. In places, the distribution of Roscoe roeks suggests that it cuts the Chataway phase, elsewhere, it occurs as local magmatic segregation within Chataway.

Bethlehem granodiorite is transitional between Chataway and Bethsaida phases, and marks the first occurrence of the younger, more evolved magmas. Bethlehem granodiorite dykes cut Roscoe and Chataway granodiorite.

Skeena and Bethsaida quartz monzonite occur in the extreme west parts of the claims. These two phases are gradational and probably represent a magmatic continuum. Contacts between the two are ill-defined. Both have a low mafic mineral content with minor hornblende and large, conspicuous, anhedral quartz.

Quartz aplite as small bodies and dykes cut all phases, but are more abundant in Skeena and Bethsaida rocks. Consequently, they tend to occur most frequently in the west parts of the claim block.

7.0 GEOPHYSICAL SURVEY RESULTS

Most of the claims were covered by a new pole-dipole IP/resistivity survey designed to relocate and better define weak IP anomalies identified by earlier work. A large dipole was employed to detect subtle, deep anomalies representing low-pyrite sulphide assemblage beneath the glacial cover and varying depths of oxidation.

Four large chargeability anomalies were clearly outlined by readings greater than 7.5 mv/v on the third separation (Walcott, 1993). These anomalies generally surround Chataway Lake (Figure 3) and are characterized by increasing sulphide content with depth. All four anomalies are underlain by Chataway granodiorite. The largest of these is the Roscoe anomaly which occurs near the Roscoe/Chataway granodiorite contact. A number of bornite-malachite veins are exposed within the outer limits of this anomaly. The Billy Lake anomaly, underlain by Chataway granodiorite, lies east of a trenched area where one old drill hole evidently tested a weak hydrothermally altered and mineralized exposure (Enns and Troup, 1993). The Superior North anomaly lies in a swampy area that is largely devoid of outcrop. Considerable Chataway granodiorite exposure underlies the Superior South anomaly. A few weak malachite occurrences were noted there during the recent mapping.

A weak changeability anomaly with readings up to 6.0 mv/v was identified at the west end of two widely spaced (400m) grid lines in the Mystery Lake area. Recent field mapping in this region outlined a weakly mineralized-hydrothermal alteration system which is open to the south, but closed off to the northwest. This region is underlain by prospective Bethlehem and Skeena plutonic phases.

8.0 DIAMOND DRILLING

The diamond drilling contract on the CVS property was awarded to Atlas Drilling Ltd. of Kamloops, B.C., and was completed between September 8 and November 2, 1993. A total of 3,918.6 metres of NQ (47.6mm) core was drilled in 13 holes. The equipment used was a standard, wireline, skid-mounted Longyear Super 38 drill powered by turbo-charged diesel. A D-5 Caterpillar was used for drill moves and for building "back spar" access trails and drill pads.

Recovery in nine of the thirteen holes was better than 99 percent. Three of the remaining holes had core recoveries between 92.4 and 97.3 percent with the worst recovery of 86.0 percent from hole 93CVS-12 (Table II). Depth of holes varied between 175.9 and 410.1 metres with drilled overburden 3.3 to 24.4 metres.

Nearly half of the drill sites required between 850 and 1000 metres of water line due to a general shortage of plentiful water supply in the region. Table II shows the materials left in the holes due to technical drilling problems. Hole CVS-3 required reaming the casing to greater depth because of poor ground conditions on the upper 50 metres. This was subsequently lost in the hole. In hole CVS-2 the casing broke and was lost down the hole. Casing in hole CVS-11 was purposely left in for the eventuality of future deepening of this hole. Bit life and mud consumption were normal for the first ten holes, but became adverse in holes CVS-11 to 13 indicating challenging drilling conditions. Future drilling in the Mystery Lake area must address this challenge.

All "back spar" trails and drill pads were back-bladed and water berms were constructed where appropriate, to combat water erosion from spring run-off. The disturbed areas were seeded with high altitude exploration mix.

The core was logged in a standard manner and split samples were generally taken on three metre intervals. A set of skeletal core samples was collected from each hole with characteristic pieces selected at approximately 10 metre

TABLE II: 1993 CVS Project Drilling Summary

HOLE #	DIP	BEARING Az	RECOVERY %	DEHEH m	TOTAL m	CASING m	WATERLINE m	MATERIALS LEFT s=shoe, b=bit	PAC Vis L liquid	PAC Vis D powder
93CVS 1	60	270	99.0	288.3	288.3	24.4	300	1b	2	-
93CVS 2	60	090	99.0	274.3	562.6	9.2	1000	9.7mNW+s+1b	1	1
93CVS 3	60	270	92.4	279.8	842.4	17.1	1000	42.7mNW+s	2	-
93CVS 4	60	270	99.0	410.1	1252.5	3.3	500	-	3	-
93CVS 5	75	000	99.0	404.2	1656.7	3.3	900	3b	3	1
93CVS 6	55	045	99.0	412.4	2069.1	6.7	200	2b	2	-
93CVS 7	60	270	99.0	280.7	2349.8	6.1	850	1b	2	-
93CVS 8	70	270	99.0	316.7	2666.5	20.1	900	-	1	-
93CVS 9	60	045	99.0	256.0	2922.5	6.1	300	-	1	-
93CVS 10	60	045	99.0	257.6	3180.1	12.8	300	1b	1	1
93CVS 11	55	075	96.2	300.5	3480.6	4.3	50	3.66mNW+s+5b	4	1
93CVS 12	55	075	86.0	175.9	3656.5	16.7	200	5b	3	-
93CVS 13	60	075	97.3	262.1	3918.6	5.5	500	3b	4	1

intervals. These examples were taken to Vancouver for permanent record and are stored at the warehouse of P. E. Walcott and Associates. The core for all holes is stored on the CVS-6 claim, immediately south of the Chataway Lake Lodge campsite.

Drill hole coordinates, elevations, dip and azimuth are listed for each hole (Appendix A). On average, two dip tests were taken per hole using a single-shot, Sperry-Sun camera. Deviation and hole flattening were minimal.

Chemex Lab Ltd. of North Vancouver, B.C. analyzed the split samples by ICP multi-element analysis. Assay re-analysis was reserved for those samples exceeding 3000 ppm copper and are included in Appendix B.

8.1 DRILLING RESULTS

Highlights of the results of the drilling are described within the context of geophysical anomalies in the order listed below:

Mystery Lake Area - Drill Holes 93CVS-11 to 13 (Figures 13 and 14)
Roscoe Anomaly - Drill Holes 93CVS-1 to 3 and 93CVS-6 (Figures 4 to 6)
Billy Lake Anomaly - Drill Holes 93CVS-4 and 5 (Figures 7 and 8)
Inverse Chargeability Anomaly - Drill Hole 93CVS-8 (Figure 9)
Superior North Anomaly - Drill Holes 93CVS-7 and 9 (Figures 10 and 11)
Superior South Anomaly - Drill Hole 93CVS-10 (Figure 12).

Figure 3 shows the location and distribution of the geophysical anomalies and drill holes. Hand written, full descriptive drill logs are in Appendix A; each log is accompanied by a summary of geological and analytical results. Complete analytical results are listed by hole and by sampled interval in Appendix B. Photo illustrations of mineralization and alteration examples and a brief description of thin section examinations are given in Appendix C.

8.1.1 Mystery Lake Area

The Mystery Lake area lies on the CVS-14 claim in the northwest corner of the property and is underlain by the transition from Bethlehem to Skeena quartz monzonite. Outcrop in this region is sparse, but a number of old exploration trenches were examined during mapping which outlined a large area of significant hydrothermal alteration with weak, widespread copper mineralization (Enns and Troup, 1993). The alteration area is at least 600 metres wide and extends to the south for an unknown distance toward Roscoe Lake.

Two widely spaced grid lines extending into this region showed weak chargeability anomalies at depth (Lines 78+00N and 82+00N). Chargeability levels improved with depth to around 6.0 mv/v against a background of 4.0 to 5.0 mv/v in the third separation.

Three holes were drilled at Mystery Lake with successful geological results. Weak mineralization, an extensive zone of intense pervasive hydrothermal alteration and complex intrusive centre were intersected by the drilling.

Hole 93CVS-11 was drilled northeast from a road site near old trenches and it intersected a sequence of altered Bethsaida-Skeena quartz monzonite and Bethlehem granodiorite. This was the best hole of the 1993 drilling campaign. In contrast to the other chargeability anomalies tested by the campaign, the hydrothermal alteration intersected at Mystery Lake is intense, pervasive and indicative of a series of alteration events. Hole 93CVS-11 intersected about 230 metres of moderate to intense pervasive sericite altered rock, punctuated by up to 40 metre wide K-spar altered intervals. Sericite alteration is complicated by the presence of a later, strong sericite overprint (sericite II). A good example of alteration paragenesis is located at 114 to 115 metres down hole, where the sequence is pervasive sericite (first event) cut by pervasive K-spar alteration, in turn overprinted by sericite II. In thin section the only remaining products are quartz and sericite pseudomorphs that replaced feldspars entirely. Where alteration is weak, fracture control is evident from wallrock alteration

envelopes which coalesce with increasing alteration intensity to manifest a pervasive replacement of either sericite or K-spar of the primary feldspar and mafic minerals. K-spar alteration is usually pink and clearly demonstrates martitization of primary magnetite to 2 or 3 percent hematite in the altered core. Below 187 metres a second event of K-spar overprint alteration is evident but it may be local. The overall alteration intensity appears to weaken at the bottom of the hole where patches of chlorite altered mafic minerals and epidote (propylitic alteration) were intersected.

The copper mineralization is pyrite and chalcopyrite deficient end occurs as 1 to 5 mm chalcocite and bornite (with minor quartz) veins with core-axis angles of 40 to 75 degrees. Local high grade veins of chalcocite and bornite occur as 2 to 15 centimetre wide veins with a high core-axis angle. These are designated as HG on the drill section and generally cause local high levels of copper. The mineralization lies in the heart of pervasive sericite alteration and is most abundant where sericite II is present. Often chalcocite and bornite veins are surrounded by sericite II envelopes. Mineralization also accompanies the early sericite and last K-spar alteration but only in minor quantities. Earlier K-spar alteration does not display a direct association with mineralization. A 100 metre zone of quartz veining, (70 metres of which includes a frequency exceeding 5 per metre) as a quartz stockwork does not mimic the distribution of best mineralization, but rather is broadly related to it. Analysis of split core samples indicates two weak zones of copper mineralization with elevated molybdenum levels. They occur above and below the pervasive, intensely altered K-spar interval. Both intervals contain several high grade chalcocite-bornite veins. The upper interval (130 to 155 metres) includes an assay of 1.36 percent copper and 11.8 grams per tonne silver across three metres. The lower interval (197 to 209 metres) includes a 12 metre interval of 2664 ppm copper with elevated molybdenum and silver levels. Sufficient copper mineralization was encountered to explain the weak chargeability. Re-analysis of selected coarse rejects resulted in about one percent increase in copper (shown as Cu' and Mo') in Appendix B.

Hole 93CVS-12 was drilled east of 93CVS-11 to complete a short section. It intersected a complex sequence of intrusions that include Bethlehem granodiorite, Skeena quartz monzonite, pink aplite and at least three distinctly different porphyry phases. Drilling of the porphyries and aplite produces very blocky core that drastically lowers the "bit life". Altered Skeena quartz monzonite and pink aplite are ths main host rocks (above 85 metres) to the pink feldspar porphyry phase that may be a small post-Skeena stock in this region. Below this porphyry at about 100 metres, is an intrusive complex including variably sericite altered, crowded feldspar quartz porphyry, pink feldspar porphyry and presumably younger, less altered feldspar biotite porphyry with fresh black biotite. Poor core recovery particularly near the contacts challenge confident age relationships of the porphyry phases. A perceived intrusive sequence is indicated on the drill section legend. The alteration is complex due to the variety of intrusive phases, several of which evidently contributed to hydrothermal alteration. Weak mineralization is present as scattered chalcocite-bornite-quartz veins displaying 65 to 75 degrees to core-axis. Only three intervals were split for sampling and show copper levels between 500 and 1200 ppm. More sampling could be enlightening, but higher grades are not indicated from the core logging. The bottom of the hole drilled through a small stock-dyke complex possibly near the core region of a hydrothermal system.

Hole 93CVS-13 was set up 400 metres south of hole 93CVS-11, and drilled through Skeena quartz monzonite with minor pink aplite intervals. The upper 100 metres of the hole intersected patchy alteration as pervasive sericite intervals 6 to 10 metres wide, accompanied near the base of this section by structurally controlled K-spar envelope alteration. The central part of the hole encountered unaltered Skeena phase. From 129 to 229 metres it intersected moderate to intense pervasive sericite altered Skeena phase accompanied by several minor silicified intervals near the top of the interval. The intense sericite alteration includes abundant sericite II similar to hole 93CVS-11. A stockwork of quartz-specularite veining about 70 metres wide occurs in the main sericite altered zone. The base of the

interval encountered several intervals of chlorite altered mafics indicating that the hole may have passed into the outer fringe of the alteration system. A thin section from 260.7 metres indicates that despite the fresh looking core, more than 50 percent of the feldspars display significant sericite alteration of their cores.

The mineralization occurs as scattered 1 to 3 mm wide chalcocite-bornite-quartz veins. Their sparse distribution and only minor visible copper-bearing sulphide with the quartz-calcite-specularite stockwork is reflected by the low levels of copper from split samples. The copper content below the 200 metre depth (2 to 6 ppm) is well below background levels and definitely anomalous. This indicates conditions of strong copper leaching from the wallrock during the hydrothermal alteration event.

Below 100 metres, the hole intersected a possible extension of the same hydrothermal system that was encountered in hole 93CVS-11. The quartz-specularite stockwork may explain the source for the subtle chargeability anomaly at depth on line 78+00N.

8.1.2 Roscoe Anomaly

The Roscoe anomaly has a north orientation, that exceeds two kilometres in length and is two to nine hundred metres wide. The underlying geology was mapped as Chataway and Roscoe granodiorite phases cut by Bethlehem dykes (Enns and Troup, 1993). Several mineral showings within the anomaly include "Art's Showing" along a new logging road south of Roscoe Creek and numerous small malachite-bornite occurrences in the south part of the anomaly. Four holes were drilled to test about one kilometre of this anomaly.

Hole 93CVS-1 was drilled across the anomaly. It intersected several intervals of Bethlehem granodiorite dyke that cut predominant Roscoe granodiorite lithology and shows cross-cutting contacts in core. Hydrothermal alteration consists of weak, fracture-controlled and localized sericite accompanied by minor pink K-spar envelopes that are best developed near the bottom of

the hole, in and near Bethlehem phase rocks. The mineralization is weak, occurring as fracture-controlled native copper, minor chalcocite and bornite veinlets 1 to 3 mm wide. Copper sulphide veins occur on low, core-axis angle veinlets (12 to 18 degrees). Copper levels are below 300 ppm.

Holes 93CVS-2 and 3 were drilled as a section across the south part of the enomaly. They intersected Chataway granodiorite cut by Bethlehem dykes. Hole 93CVS-3 intersected a wide interval of Bethlehem phase, possibly because this hole was travelling in a direction sub-parallel to the dyke. Generally weak, fracture-controlled, localized hydrothermal alteration was encountered. The top of hole 93CVS-3 started in a clay-altered, fault zone where much of the soft rock and overburden were washed out by the drill returns. Mineralization is generally weak in both holes, consisting of 1 to 2mm bornite-chalcocite veinlets with 15 to 35 degree core-axis angles. Hydrothermal alteration accompanying mineralization is often present as a weak, pink, bleached envelope, or it may be completely absent. The best interval is at 254.0 to 260.0 metres in hole 93CVS-3 where specularite-chalcocite fractures occur with a frequency of 5 to 7 per metre in a short, pervasive, sericite-altered interval that contains 1171 to 1239 ppm copper.

Hole 93CVS-6 was drilled in a northeast direction to intersect mineralization veins at a better angle, and to drill under the extension of "Art's Showing" exposed along the logging road. This was the best mineralized hole in the Roscoe anomaly. It intersected mainly Chataway granodiorite in the upper portion, and mainly Roscoe granodiorite in the lower portion, but ended in Chataway phase. Hydrothermal alteration is generally localized and structurally controlled. In intervals of less than 15 metres, sericite occurs as narrow envelopes up to several centimetres wide. Short intervals of structurally controlled, moderate intensity, K-spar envelopes up to 10 centimetres wide often are accompanied by orange-pink, zeolite-calcite veins up to 1 cm wide. In hole 93CVS-1 this was identified from thin section as Laumontite. Typical mineralization occurs as 1 to 2 mm

veinlets either with weakly bleached alteration envelopes, or with no associated alteration. Core axis intersections are between 55 and 75 degrees. Native copper was not observed in this hole.

Several 4 to 6 metre intervals contain more than 1000 ppm copper, with the best interval of 5 metres from 63.0 to 68.0 metres averaging 4890 ppm copper and 3.28 ppm silver. Within this interval is a 2 metre assay of 0.93 percent copper. The interval 130 to 160 metres tested the down dip extension of "Art's Showing" and intersected only two short intervals of high copper. One of these intervals is 0.33 percent copper across one metre from intense quartz-sericite-altered rock adjacent to a fault, the adjacent sample of fault zone material contains 978 ppm. Yet no mineralization was visible in either of these two split intervals. Standard three metre samples contain 350 to 978 ppm copper. Deeper in the hole (266.0 and 280.0 metres), two intervals with a higher than average density of mineralized veinlets contain relatively low copper. The highest molybdenum sample, at 305.0 metres is associated with a 1.5 cm quartz-epidote-chalcopyrite vein containing disseminated bornite and some molybdenite slips. Elsewhere the molybdenum contents is low.

Drilling results indicate that the Roscoe anomaly contains weak copper mineralization. Where levels of copper are high, they occur over narrow widths. Hydrothermal alteration although present is sporadic as a localized, structurally-controlled feature. Its association with copper mineralization is not strong. The copper mineralization contains a sulphur-and iron-poor mineralogy. Much (although not all) of the native copper in the first hole appears to be of hypogene origin as is evident from its occurrence with hornblende and with magnetite, and at a depth of more than 200 metres.

At present, the only explanation of the chargeability anomaly is the combined presence of scattered chalcocite-bornite veinlets, fine grained native copper and estimated 1 to 3 visual percent of magnetite.

8.1.3 Billy Lake Anomaly

The Billy Lake anomaly is located south of Billy Lake. It displays a north orientation, is about one kilometre long and is 250 to 450 metres wide. Bedrock mapped in the area consists of Chataway granodiorite cut by a possible Bethlehem granodiorite dyke near the Billy Lake Road. An area of extensive trenching lies immediately west of the anomaly and evidently tested the extent of several scattered, weakly mineralized copper occurrences that comprise a northwest-trending zone of weak alteration and mineralization recognized by recent mapping (Enns and Troup, 1993). Two holes were drilled to test the Billy Lake anomaly.

Hole 93CVS-4 was drilled across the north part of the anomaly and intersected Chataway granodiorite in the upper 167 metres of the hole, followed by Bethlehem granodiorite below 167 metres. It ended in Chataway phase. Short sporadic intervals of weak to moderate intensity K-spar alteration and fracture-controlled sericite alteration are scattered throughout most of the hole. Overall, the copper mineralization is weak, and consists mainly of native copper with sparsely distributed chalcocite and bornite veinlets. In the upper 200 metres of the hole, native copper occure as the dominant copper mineralization in fractures and as isolated disseminations, or as disseminations associated with mafic minerals or with magnetite. Above 60 metres, native copper occurs as copper wire along fractures and is supergene, but at greater depth its origin is most likely hypogene as indicated by its encapsulated mode of occurrence in the hornblende, magnetite, or with fine grained drusy quartz vein material. Typical grades for native copper mineralization are in the range 200 to 600 ppm. Visual estimates are difficult owing to the fine grained nature of the native copper, but they do not exceed one-half percent by volume. In the interval 172.0 to 199.0 higher copper is associated with elevated levels of silver (0.4 to 0.8 ppm). Two isolated high copper samples in the hole are caused by the presence of chalcocite or bornite veins. At 187.0 metres, a 2.4 metre sample contains minor chalcocite within

a fault; at 364.8 metres a short, quartz-sericite altered one-metre sample contains specularite accompanied by bornite near a small fault. Both samples were re-assayed and run 0.39 and 0.33 percent copper respectively. Adjacent samples are an order of magnitude lower in copper.

The possible source of the third separation chargeability anomaly on line 70+00N evidently is the chalcocite-bornite veining below 300 metres, with some possible contribution from the native copper dissemination between 150 and 200 metres.

Hole 93CVS-5 was drilled along the long axis of the Billy Lake anomaly to test mineralization and a possible source of an inversion modelling chargeability anomaly below 250 metres. The hole intersected several phases of Chataway granodiorite cut by intervals of Bethlehem dyke. A major fault was intersected from 142.1 to 147.0 metres. Throughout most of its length, the hole encountered short intervals of hydrothermal alteration as pink K-spar and quartz-sericite, that is fracture controlled, wallrock alteration. Much of the pink alteration was identified in thin section as extremely fine hematite dusting of the feldspars accompanying sericite replacement of the core regions of feldspar. Pink zeolite (identified as laumontite in thin section) and calcite veins are widespread and also contribute to pink alteration envelopes. They are locally abundant, possibly as part of a late, low temperature alteration event within the batholith.

Mineralization consists of discrete, sparsely distributed 1 to 2mm chalcocite and bornite veinlets at 30 to 45 degrees to the core axis, often with no associated wallrock alteration. Native copper disseminations as very fine grained particles were identified in intervals of 5 to 40 metres wide, below a depth of 200 metres. Much of the native copper is of hypogene origin, as was described in hole 93CVS-4 above. Copper levels for such mineralization are variable and typically 100 to 400 ppm, with local samples as high as 800 ppm, depending on degree of dilution and sample width.

The combination of weak, widespread native copper dissemination and scattered, discrete chalcocite and bornite veinlets between 50 and 280 metres are regarded as the most likely source for the Billy Lake IP anomaly. A likely source for a deep, inversion modelling chargeability anomaly below 200 metres is not apparent.

8.1.4 Inverse Chargeability Anomaly

Re-calculation of the IP/resistivity survey data along line 58+00N, using inverse chargeability modelling suggested the presence of a large entity of sulphides at depth. The data on this line indicated that the chargeable material was part of the Roscoe and Billy Lake anomalies at depth. **Hole 93CVS-8** was drilled to test this interpretation. No outcrop is present in the general vicinity of the drilling.

This hole intersected Chataway granodiorite cut by Roscoe phases and granodiorite dykes. Significant hydrothermal alteration is largely absent in the core. Sparsely distributed veins and fractures of chalcocite and bornite were intersected, all with small, core-axis angles. Native copper is disseminated as very fine grains, that have a widespread distribution throughout the hole, but in trace amounts. In its occurrence, native copper exhibits a strong affinity for hornblende and magnetite indicating a magmatic or hypogene origin. Higher up in the hole it is localized along fractures suggesting supergene origin. Copper content from sampling is low; with 350 ppm as the best intercept, possibly indicative of high copper background levels in the Guichon batholith.

The quantity of chargeable material encountered below 150 metres is low and does not support the hypothesis that a large body of weakly mineralized rock connects the Roscoe and Billy Lake anomalies.

8.1.5 Superior North Anomaly

The Superior North is a large, deep chargeability anomaly displaying a north orientation. It is about 2 kilometres long, and 450 to 600 metres wide and covers a large, low lying swampy region northwest of Chataway Lake. Unaltered Chataway granodiorite outcrops were mapped at the extreme ends of this anomaly. Two holes were drilled (93CVS-7 and 9) to test the north and south ends of the anomaly.

Hole 93CVS-7 drilled across the north end of the anomaly intersected Chataway granodiorite cut by numerous granodiorite dykes, one diorite dyke and one quartz feldspar porphyry dyke. Several short hydrothermally altered intervals were intersected but they are of little consequence. Sparse chalcocite-bornite veins and fractures 1 to 4 mm in width, with patchy sulphide distribution occur throughout the hole. In the upper part, these have a core-axis angle between 15 and 27 degrees; with depth this geometry changes to between 30 and 40 degrees. Wallrock alteration is weak to absent, adjacent to these copper veins. The amount of mineralization was too low to encourage extensive sampling. The best visual mineralization contains less than 200 ppm copper.

Hole 93CVS-9 was drilled near the south end of the anomaly and intersected dominantly Chataway granodiorite cut by numerous 1 to 8 metre-wide granodiorite dykes. Several pink K-spar altered zones were intersected, some of which are related to zones of pink zeolite-calcite veining. The mineralization occurs as sporadic and widely-spaced, chalcocite-bornite veins and fractures with moderate core-axis angles. Again, as elsewhere, hydrothermal wallrock alteration of mineralized veins is weak or absent. The best mineralized interval occurs at 138.0 to 145.0 metres where up to seven close-spaced, chalcocite-bornite veins were intersected with core-axis angles of 44 to 54 degrees. Copper content is between 268 and 305 ppm for this interval indicating that these veins are not of economic interest.

The drilling on this anomaly intersected insufficient amounts of sulphide mineralization to confidently explain the IP/chargeability response from the geophysical survey. Drilling to the northeast, instead of due west improved the core-axis angle of mineralized veins.

8.1.6 Superior South Anomaly

The Superior South anomaly lies east of Chataway Lake and extends south for over 2 kilometres. It is 200 to 500 metres wide and is underlain by numerous outcrops of unaltered Chataway granodiorite. Only one minor malachite occurrence was mapped here, exposed along an old road cut east of Chataway Lake. A single hole was drilled in a northeast direction near the centre of the anomaly.

Hole 93CVS-10 intersected predominantly unaltered Chataway granodiorite cut by dykes of medium grained granodiorite dykes that look very similar in composition to Chataway phase. A major fault system was encountered between 80.0 and 90.0 metres and contains weak sericite and intense clay altered rocks. Two short intervals of sericite and K-spar alteration were intersected deeper in the hole. Sparse chalcocite veins are present below 180.0 metres but do not approach economic significance. Native copper again is the most widespread mineralization as very fine grained, weak, disseminations throughout the hole. The best mineralization starting at about 200.0 metres appears to be related to a petrologic transition from coarse to medium grained unaltered Chataway granodiorite phase. The best samples contain between 367 and 395 ppm copper.

As with the results from drilling the North Superior anomaly, the quantity of sulphide intersected in this hole are insufficient to confidently explain the third separation chargeability response along line 42+00N.

APPENDIX A

DRILL LOGS

Cu = native copper
Cc = chalcocite
Bn = bornite
CA = core axis angle

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DIAMOND DRILL SUMMARY

Project No. CVS
Hole No. 93CVS-1
Page 1 of 10

Property CVS
Claim CVS 7
Section ROSCOE ANOMALY NORTH END

Date Started SEPT. 9 1993 D
Date Finished SEPT. 12 1993 D
Logged By S. EVANS
Contractor ATLAS DRILLING, KAMLOOPS
Core Stored At CHATAWAY LAKE LODGE CAMPSITE

CORE SIZE		
FROM	TO	SIZE
24.4	288.3	NQ

TOTAL DEPTH 288.3 m
CORE RECOVERY +99%

COLLAR SURVEY	
NORTHING	5800N grid
EASTING	3550 E "
ELEVATION	1489 m
BEARING	270 °Az
DIP	-60°
REFERENCE	

DOWN HOLE SURVEY		
FOOTAGE	DIP	AZIMUTH
117.7m	-60	275°
212.0m	-59¾	279°

SUMMARY LOG			ASSAYS					
FROM	TO		FROM	TO	ppm Cu			
0	24.4	OVERBURDEN						
24.4	43.1	ROSCOE GRANODIORITE						
43.1	55.4	BETHLEHEM(?) GRANODIORITE with a few minor malachite-bornite veinlets 15° to CA.	45	48	271			
55.4	98.3	ROSCOE GRANODIORITE - several fault zones at 70.3 at 25° CA and 71.1 at 30° to CA						
98.3	132.4	BETHLEHEM(?) GRANODIORITE with Rosco inclusions and sharp lower contact. Native						
		copper occurs as very fine disseminations in 1 to 2 mm quartz veinlets 12 to 18° CA and as						
		disseminations with mafic sites. Mineralization is weak. Short interval of widely spaced sericite						
		fractures with K-spar pink envelope alteration 65 to 80° CA	86	89	291			
132.4	148.8	ROSCOE AND BETHLEHEM(?) GRANODIORITE - dykes of latter in Roscoe. Similar weak	89	92	299			
		native copper mineralization in both phases observed as fracture controlled 10 to 12° CA.						
148.8	288.3	Dominantly Bethlehem(?) GRANODIORITE with ROSCOE phase 231 to 241 and pink						
		granite - quartz aplite 255.0 to 259.8. Similar weak fracture controlled native						
		copper and minor chalcocite associated with 10 to 15° CA. Some native copper is	186	189	237			
		finely disseminated and of probable late hypogene origin. Significant pink K-spar	189	192	266			
		envelope alteration accompanies sericite fractures 217 to 241 and 260 to 264.						
		Best mineralization occurs as very weak, fracture controlled native copper and						
		minor chalcocite or bornite. More disseminated native copper may be present in core						
		than was visually observed at 200 to 230 m due to very fine grained disseminated nature.						
	*	Copper levels are below 300 ppm - in native copper intervals.						

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DIAMOND DRILL LOG

PROJECT: CVS
D.D.H. NO.: 93CVS-1
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INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	ALTERATION D	FRACTURE INTENSITY	MINERALIZATION CP	MINERALIZATION BN	MINERALIZATION PY	MINERALIZATION MAG	ASSAYS SAMPLE	ASSAYS FROM	ASSAYS TO	ASSAYS Cu
0	24.4	OVER BURDEN													
24.4	43.1	ROSCOE GRANODIORITE													
		Coarse grained, 13-14% 2 to 7mm Hbld, 3-4% 2-3 mm Biot,													
		Generally unaltered mafics.													
		Hbld is euhedral, and uniformly distributed													
@ 31.0	34.0	Occ fract with pink Hematitic, K-spar and Zeolite envelopes several mm wide													
		Assoc. with 1 to 2 mm Epid. veinlet set 30 to 35° CA													
		Red Zeolite/calcite fracture throughout major interval 60 to 80° CA predom.													
@ 35°	36°	Moderate shearing with minor Feldspar to clay alteration. Veins parallel core													
		Minor Chlorite alteration of Hbld.													
@ 40.9		small Hematitic fault 35° CA													
		8 to 10 fractures/m Throughout major interval													
@ 41.4	41.6	Small fault - crushed zone													
43.1	55.4	FINE GRAINED BETHLEHEM GRANODIORITE										627525	45	48	271
		Intrusive upper contact with small Roscoe Granodiorite inclusions										627526	48	51	119
		Grey, fine grained, Biotite abundant, vaguely foliated mafics 55 to 65° CA										627527	51	54	73
		13-14% total mafics, 10% 2 to 3 mm Biotite flakes, 4% 2 to 3 mm weakly										627528	54	57	76
		chloritized Hbld. Hbld generally coarse Xals.										627529	57	60	57
		Overall fractures are 8 to 10/m.													
		Cut by weak, bleached stockwork of Calcite, pink Zeolite with Hematite													
		coatings ~ 4 to 5/m													
@ 44.9	45.1	small fault with breccia. Earthy Hematite slips 45° CA Lost Core 0.4m													

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DIAMOND DRILL LOG

PROJECT: CVS
D.D.H. NO.: 93CVS-1
Sheet 3 of 10

INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A	B	C	D	FRACTURE INTENSITY	MINERALIZATION CP	BN	PY	MAG	ASSAYS SAMPLE	FROM	TO	Cu
@ 47.0		5cm fault with Hematite slip with slickenslides 50°CA													
@ 49.7		1mm veinlet of faint Malachite - Bornite 15°CA. Cut by stkwk of													
		Calcite + Gypsum bleached veinlets set						*							
@ 52°		Same copper mineralization - weak.						*							
@ 51°		1mm drusy vein with clear Zeolite xal growth 10° CA													
		Sharp lower contact 60° CA													
55.4	93.8	ROSCOE GRANODIORITE													
		Coarse grained, as 24.4 to 43.1m. Uniformly distributed euhedral Hbld													
@ 58.6	58.8	Moderate shearing with Feldspar to Clay alteration													
		Chlorite on some fractures here and there													
		Overall, 3 to 4 veinlets /m as Calcite - Gypsum(?) stockwk													
@ 60.8	61.6	Fine grained Bethlehem phase (as 43.1 to 55.4m interval) injected													
		with consequent extensive pervasive pinking emanating from several core-parallel,													
		Calcite - Zeolite veins 2 to 4mm wide. They contain 1% Magnetite and													
		fine Hematite dusting													
		Overall, 8 to 10 fractures /m.													
@ 65.0		Local pinking stockwork													
@ 68.8	70.3	Fault zone with breccia, Calcite veining in fault 25°CA													
@ 71.1	71.8	Fault zone with breccia, slips @ 30° CA LOST CORE 0.8m													
@ 72.4	73.8	Variable pervasive pinking, patchy with chloritized Hbld													
@ 73.8	74.7	Pink microgranite injection: sharp upper CTC 42° CA,													
		lower CTC sheared for 10cm with 34° CA indicated													

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DIAMOND DRILL LOG

PROJECT CVS
D.D.H. NO.: 93CVS-1
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Cc = Chalcocite
Cu = Native Copper.

INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A	B	C	D	FRACTURE INTENSITY	MINERALIZATION CP	BN	PY	MAG	Cc	Cu	ASSAYS SAMPLE	FROM	TO	Cu
@ 80.0	93.8	Section contains bleached envelopes on 1 to 2 mm Epidote-filled fractures															
		with density of 4 to 5/m @ 30 to 40° CA. Also Calcite-Gypsum															
		and Anhydrite veinlets @ 10 to 20° CA.												627530	83	86	55
@ 86.0		Weak Malachite with minor Chalcocite on 0.3 m crushed (sheared) zone @ 40° CA										*		627531	86	89	291
@ 87.2		20cm shear zone 62° CA with faint Malachite and minor Chalcocite										*		627532	89	92	299
		accompanied by Hematite Clay and red Zeolite												627533	92	95	68
														627534	95	98	60
93.8	132.4	BETHLEHEM GRANODIORITE												627535	98	101	63
		Generally medium grained, otherwise similar to interval 43.1 - 55.4 with												627536	101	104	37
		7 - 8 % 1 to 2 mm Biotite flakes, 6-8 % Hornblende as bimodal 1 to 2mm															
		and 3 to 6 mm Xals that are partly chloritized.															
		Weak foliation of mafics															
@ 95.0		Native copper as finely disseminated specks - late Hypogene? or Supergene.											*				
@ 97.6		Same											*				
@ 98.6		Native Copper with slightly pink enveloped Qtz veinlet 37° CA											*				
@ 109.0		Native Copper in veinlet/fracture 18° CA.											*				
@ 110.7		Native Copper in Hematitic-Calcite-Qtz veinlet, 1 mm wide, 13° CA											*				
@ 98.0	102	Roscoe granodiorite inclusions															
@ 104.3	106.8	Large Roscoe granodiorite inclusion															
@ 106.7		Small fault with red Hematite slickenside 40° CA															
@ 108.8	109.5	Shear zone with 10cm incipient breccia 30° CA shearing.															
@ 110.0		Below 110 unit becomes coarser, more distinctly mafic bimodal (grain size) with															
		mafics generally mottled - About 6 to 7 fract/m.															

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DIAMOND DRILL LOG

PROJECT: CVS
D.D.H. NO.: 93CVS-1
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INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A	B	C	D	FRACTURE INTENSITY	MINERALIZATION CP	BN	PY	MAG	Cc	Cu	ASSAYS SAMPLE	FROM	TO	Cu
@ 112	122.0	Vein Type alteration as palmalive green Sericite envelopes 5mm (½ width)															
		with average density about 6 to 10/m, 65 to 80°CA. Locally 5 veinlets over 10cm widths,															
		some with minor pink K-spar association															
@ 113.5		Small shear with red earthy Hematite slips 70°CA												627537	109	112	225
@ 123.2		1mm Qtz veinlet with pink 2 to 3mm envelope with disseminated specks of											*	627538	112	115	88
		Native copper, 13° CA															
@ 123.7	124.5	Fractured zone of pervasive Epidote-Kspar alteration with irregular Calcite-Qtz fillings															
@ 126.2		? Pink 2cm wide Ksp pink dykelets															
@ 127.2														627539	120	123	50
@ 128.5	129.0	Incipient intrusive breccia with Sericite stockwork between unrotated jigneous clasts												627540	123	126	73
@ 131.2		Sheared Sericite fractures with Native copper, 12° CA											*	627541	126	129	170
		Near lower contact get bleached envelopes with Epidote-Ksp adjacent to fractures.												627542	129	132	153
														627543	132	135	95
132.4	140.5	ROSCOE GRANODIORITE												627544	135	138	233
		Coarse grained, uniformly distributed Hbld Xals as before												627545	138	141	229
@ 133.5		Drusy 1cm Qtz Xal vein 15° CA - No mineralization.												627546	141	145	129
@ 134.5		20cm pink Qtz-Kspar dykelet 10° CA on lower contact.												627547	145	147	132
@ 135.4		Native Copper on fracture with faint pink K spar envelope, Sericite on fracture. 10° CA											*	627548	147	150	116
@ 138.4		Native Copper with intense pink Kspar-Epidote envelope 2cm wide (½ width). Sericite on fracture											*	627549	150	153	61
		Occasional Qtz veinlets 1 to 2/m density, 55 to 60°CA												627550	153	156	73
@ 139.3		3cm wide Bethlehem dykelet 50° CA.												627551	156	159	85
		Sharp lower contact 54°CA												627552	159	162	54

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DIAMOND DRILL LOG

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INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	ALTERATION D	FRACTURE INTENSITY	MINERALIZATION CP	BN	PY	MAG	Cc	Cu	ASSAYS SAMPLE	FROM	TO	Cu
140.5	144.2	BETHLEHEM GRANODIORITE															
		Medium grained, foliated mafics as 93.8 to 132.4															
		Occasional fractures 2 to 3/m with pink envelopes.															
		Pink Kspar dykelet at lower contact which is sheared @ 25° CA															
144.2	148.8	ROSCOE GRANODIORITE															
		Similar to 132.4 - 140.5.															
		Feldspars saussuritized with moderate intensity from upper contact down to 145.5															
		Occasional Calcite - Anhydrite (± Gypsum) veinlets 1-2 mm wide, 75° CA															
		Lower contact is microfractured with red earthy Hematite that cuts @ 10° CA, 1 mm Native										X	X				
		Copper veinlet of faint Malachite, Chalcocite - Chlorite.															
148.8	231.0	BETHLEHEM GRANODIORITE															
		Predominantly Bethlehem phase with some 5 to 7 cm Roscoe phase xenoliths.?															
		Foliated mafics 45° CA															
		Pinking envelopes of 1 cm on 1 to 2 mm Epidote veinlets															
@163	167	Numerous Roscoe phase inclusions, several cm to 1 m. Some contacts are sharp, others are subtle.															
@151	151.4	Fractured section with Epidote - Calcite veinlets and possible Native copper. Variable Epidote											X				
		altered envelopes (overall as weak alteration of less 10%) resulting in localized Chlorite															
		altered Hbld and Biotite (pervasive) Veinlets are 55 to 60° CA															
@155	165	Local, patchy grey silicified zones 10 to 50 cm wide.															
@160		Native copper on 1 mm Qtz veinlet 15° CA											X				
@169.6		Native copper specks, often with mafic sites. One, 1 mm Qtz - Bornite veinlet 15° CA.											X				
@170.5	172.0	Blochy core in fractured section															

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DIAMOND DRILL LOG

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INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A	B	C	D	FRACTURE INTENSITY	MINERALIZATION CP	BN	PY	MAG	Cc	Cu	ASSAYS SAMPLE	FROM	TO	Cu
		Occasional pink and bleached envelopes on veinlets 1 to 2/m.															
@177.0		4cm Qtz-aplite dykelet 5°CA															
@179.0		Core parallel 2mm Qtz veinlet with faint 1cm pink envelopes															
@180.0	183.0	Mafics show moderate foliation 50°CA.												627553	180	183	38
@183.6		Native Copper specks in 2mm veinlet with pink 1cm envelope. Chalcocite association										*	*	627554	183	186	74
		is patchy, disseminated and irregularly scattered.												627555	186	189	237
@186.3		Native Copper, finely disseminated in 2cm Qtz-Calcite Zeolite vein with minor Sericite										*	*	627556	189	192	266
		on margins 12°CA.												627557	192	195	90
@188.0		1 to 3mm Qtz veinlet with pink envelope, minor Chalcocite and Native Copper fine										*	*	627558	195	198	73
		disseminations about 1/10 to 1/2 mm. 10°CA												627559	198	201	228
@190.0		Same as 188.0										*	*	627560	201	204	147
@195.0		Same as 188.0										*	*	627561	204	207	163
@200.3		Same as 188.0										*	*	627562	207	210	232
@202.0	203.5	Two Roscoe Granodiorite inclusions												627563	210	213	66
@204.0		1mm Qtz-Sericite veinlet with 1cm faint pinking envelope and Chalcocite-Native copper										*	*	627564	213	216	163
		mineralization 12°CA.												627565	216	219	27
@204.8		Fault zone 25°CA clay gouge and qtz pebble breccia, zone about 20 to 30cm wide												627566	219	222	36
@209.0		Native copper specks are finely disseminated in association with mafic sites < 1/4%											*	627567	222	225	44
	*	Present throughout as hypogene mineralization - very fine grained specks. Widespread and may also															
		be present higher up the hole. Observed @ 215m.															
@210.0	211.0	Two pink Calcite-Qtz ± zeolite veins 1cm wide at 10° CA and 29° CA.															
@217.0	218.8	Pink sheared and faulted Qtz aplite section adjacent to 20cm fault zone															
		with clay gouge, Sericite and breccia.															
@219.8		Native copper - Chalcocite, Qtz veinlet 10°CA with faint pinking envelope.										*	*				

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DIAMOND DRILL LOG

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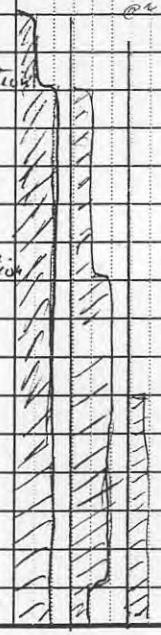
Dominantly Red Zeolite

INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION (Pink Alt. A, Chl. B, Ser C, D)	FRACTURE INTENSITY	MINERALIZATION CP	BN	PY	MAG	Cc	Cu	ASSAYS SAMPLE	FROM	TO	Cu
@220		General increase in intensity of pink alteration flooding as both vein type and pervasive. Veins are Ksp red Zeolite and calcite, some with epidote and sericite halos. They form a pink stockwork - (Zeolite is predominant). Locally, zones of Native copper disseminations are present in small amount. Accompanied by saussuritized Feldspars and Chlorite altered Mafics							*					
@227.3	227.5	Sheared zone with abundant sericite	GRAPHIC											
@229.1	230.1	Fault Zone. Breccia, slips @ 50° CA.		206 m										
231.0	241.3	ROSCOE GRANODIORITE	@ ~ 217 m	218										
		Variably altered by same pink pervasive and vein type alteration as Bethlehem phase above. Numerous Calcite - Epidote veins, some with minor faulting and shearing.		220										
				222										
241.3	255.0	BETHLEHEM GRANODIORITE												
		Variably intensel pink alteration with associated weak chloritization of mafics.		224										
		Upper faulted contact 22° CA with clay - Hematite slips		226										
@240.2		Shearing and GROUND CORE												
@241.2	241.4	Small fault with Hematite slips 27° CA		228										
@243.2		Faint Malachite and minor Chalcocite with Epidote veinlet.							*					
@244.0	245.0	Blocky Core		230										
@244.7	245.0	Fault Zone with clay gouge and crushed breccia												
@246.0		Below 246.0 weak, clay altered white Feldspar.		232										
@250.0		Below 250.0 pink alteration weakens toward lower contact												



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DIAMOND DRILL LOG

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Zeolite

INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A (Pink)	B (Chl)	C (Ser)	D	FRACTURES INTENSITY	MINERALIZATION CP	BN	PY	MAG	Cc	ASSAYS SAMPLE	FROM	TO	Cu
		Chlorite alteration drops to very weak.														
						239										
255.0	259.8	PINK GRANITE - QUARTZ APLITE														
		Very highly fractured unit with numerous palmolive green Sericite				236										
		fractures (more than 10 /m). Sheared upper contact 5cm Sericite, Hematite 17°CA.														
		From upper contact to 258 unit is equigranular medium grained				237										
		granitic texture with white clay altered Feldspars, 2 to 3%, 2 to 4mm														
		Biotite flakes. Lower section near contact, unit becomes a				238										
		fine grained aplite														
@259.1		Malachite - minor Chalcocite bearing Calcite - Zeolite vein, 1 cm				240						*				
		and 30°CA.														
		Lower contact 55°CA				242										
259.8	288.3	BETHLEHEM GRANODIORITE				244										
		Broken core and intense pink alteration near contact with above														
		unit. between 261.5 - drops to weak alteration 262.5				246										
@262.1	263.0	Shear zone, crumbly and fractured core, often CA parallel														
		veinlets with abundant, thick sericite coatings with minor red Hematite				248										
		Below 263 unit becomes less altered with fresh mafics and														
		occasional pink envelopes about 5 to 6 /m.				250										
		Occasional 5 to 10°CA pale green siliceous 1 to 2mm veinlet														
@269.3		1-2mm Qtz veinlet with irregular splotches of Bornite. Faint						*								
@274.9		1cm pink envelope.														
@274.9	277.1	Core is blocky due to fracturing														

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DIAMOND DRILL LOG

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Zeolite

INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A (Pink)	B (Chl)	C	D	FRACTURE INTENSITY	MINERALIZATION CP	BN	PY	MAG	ASSAYS SAMPLE	FROM	TO	Cu
@ 276.1		Small fault with Hematite slips 25°CA.				251									
@ 270.8		1-2 mm Qtz veinlet with faint Kspar pinking 14°CA.						*							
@ 269.7		Rare Chalcopyrite Bornite 40°CA. Small slip with adjacent mineralization				258		*	*						
@ 283.0	284.0	Fault w/ shearing and slips 20°CA., Blocky core. Minor							*						
		Bornite on top of fault				260									
@ 285.0		Qtz-Epidote veinlet with minor Bornite						*							
		Broken core at 285.1-285.3 Mislatch - lost core tube				262									
		down hole - shut hole down short of 300m.													
						264									
						266									
						270									
288.3		END OF HOLE.													

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Note: Cu = native copper Bu = bornite
Cc = chalcocite Cp = chalcopyrite

DIAMOND DRILL SUMMARY

CA = core axis angle

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Property CVS
Claim CVS 5
Section ROSCOE ANOMALY SOUTH END

Date Started SEPT. 12, 1993 N
Date Finished SEPT. 15, 1993 D
Logged By S. ENNS
Contractor ATLAS DRILLING, KAMLOOPS
Core Stored At CHATAWAY LAKE LODGE CAMPSITE

SUMMARY LOG			ASSAYS					
FROM	TO		FROM	TO	ppm Cu			
0	9.2	OVERBURDEN						
9.2	142.0	CHATAWAY GRANODIORITE						
		Weak fracture controlled Bornite mineralization 14-60 m in 1-2mm Qtz-Sericite veinlets with	18	21	1256			
		pink K-spar envelopes 20-35°CA	24	27	526			
142.0	179.0	ROSCOE GRANODIORITE	39	42	296			
		Faulted upper contact. Weak fracture controlled bornite mineralization 142-159 m in	142	145	656			
		1-2mm pink K-spar envelope fractures 20-30°CA. Strongest K-spar alteration	145	147	264			
		in 146-169 m.	156	159	472			
179.0	216.0	HYBRID - CHATAWAY AND ROSCOE PHASES						
		With several short Roscoe granodiorite intervals, some of rock may also be						
		Bethlehem phase. Unmineralized.						
216.0	226.5	ROSCOE GRANODIORITE						
		Unmineralized						
226.5	274.3	BETHLEHEM β GRANODIORITE						
		With short Roscoe interval. Unmineralized						
		Fault 70-75°CA, 239-241 m.						

CORE SIZE		
FROM	TO	SIZE
9.2	274.3	NQ

TOTAL DEPTH 274.3M
CORE RECOVERY +99%

COLLAR SURVEY
NORTHING 4987N
EASTING 3166E
ELEVATION 1481m
BEARING 090 Az
DIP -60°
REFERENCE

DOWN HOLE SURVEY		
FOOTAGE	DIP	AZIMUTH
71.9m	-58 3/4	088° Az
206.9m	-58 1/4	094° Az

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DIAMOND DRILL LOG

PROJECT : CVS.
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INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	ALTERATION D	FRACTURE INTENSITY	MINERALIZATION CP	MINERALIZATION BN	MINERALIZATION PY	MINERALIZATION MAG	ASSAYS SAMPLE	ASSAYS FROM	ASSAYS TO	ASSAYS Cu
0	9.2	OVERBURDEN													
9.2	142.0	CHATAWAY GRANODIORITE.													
		Medium grained, uniform mafic distribution (Hornblende dominant) - very fresh.										627501	12	15	281
		About 18%, 2 to 4mm Hornblende. Large >1cm poikolitic K-spar.										627502	15	18	114
		Fracturing averages 6 to 7 /m.										627503	18	21	1256
		Occasional bleached fracture less than 2 /m. with red Zeolite on fractures.										627504	21	24	161
@14.0	19.5	Blocky core.										627505	24	27	526
@19.5	20.0											627506	27	30	71
@ 14.0		Malachite (faint) plus Chrysocolla with minor Bornite on two fractures 60° CA.							*						
@ 15.3		Sericite altered vein with minor Malachite.													
@ 19.8		Minor Malacite with 1mm Qtz veinlet													
@ 21.0		Qtz veinlet with minor Bornite 25° CA.							*						
@ 22.1		Minor Malachite on fracture 38° CA													
@ 24.0	24.4	Sheared and brecciated section with minor Malachite.													
@ 25		small fault zone 10cm with Clay and Sericite													
@ 25.5		Small fault with Bornite Malachite 25° CA. 2 cm wide.							*						
@ 26.3		Small fault with red Hematitic slips 35° CA. 1cm wide													
@ 27.0		Small fault 4cm wide 25° CA.													
@ 29.1		small fault w/ Fe CO_3 cemented breccia 25° CA. red Hem slip. Malachite on													
		margin. Propylitic alteration envelope 10cm wide.													
@ 30.0		2cm fault 44° CA.													
@ 31.7		2mm fracture with faint Malachite and minor Bornite 25° CA							*						
@ 31.9		Same 29° CA.							*						
@ 32.4		Same 25° CA							*						

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DIAMOND DRILL LOG

PROJECT: CVS
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INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	ALTERATION D	FRACTURE INTENSITY	MINERALIZATION CP	MINERALIZATION BN	MINERALIZATION PY	MINERALIZATION MAG	ASSAYS SAMPLE	ASSAYS FROM	ASSAYS TO	ASSAYS Cu
@ 34.9		Same 70°CA													
@ 36.4		Same 20°CA.													
@ 38.7		Small shear 75°CA with Malachite.										627507	30	33	135
@ 38.9		Malachite, faint limonite fracture after Chalcopyrite (?) 30°CA							* (?)			627508	33	36	79
@ 39.2		1 mm veinlet with faint Malachite and Cuprite (?) (minor) 30°CA.										627509	36	39	233
		Adjacent red Hematite slip 80°CA.										627510	39	42	296
@ 41.0		1 cm vein of pink $FeCO_3$ / Calcite with pink 1 cm envelope Minor Malachite. 30°CA										627511	42	45	55
@ 41.0	44.0	Drusy Qtz - Gypsum veinlets as coarse stockwork.										627512	45	48	66
@ 46.4		2 mm. Qtz - Sericite veinlet 30°CA with 2 cm envelope of Epidote - Kspar							*			627513	48	51	97
		alteration. Bornite accompanies veinlet										627514	51	54	54
@ 49.4		Same 35°CA										627515	54	57	127
@ 50.6	51.4	Strong pervasive Epidote alteration, Red Hematite slip at 51.4 w/ 35°CA.										627516	57	60	64
@ 52.8		1 mm Qtz - Sericite vein with Malachite - Bornite, 2 cm pink, Ksp - Epidote alteration envelope, 35°CA.							*						
@ 53.1		Same without conspicuous alteration envelope 28°CA.							*						
@ 55.4		1 mm Qtz - Sericite vein with 1 cm pink Ksp alteration envelope 35°CA.													
@ 56		2 mm Qtz-Sericite veinlets w/ some alteration envelopes w/ Bornite 30°CA							*						
@ 56.5		25°CA							*						
@ 58.0		same 35°CA cut by 25 CA 1 cm small fault							*						
@ 57.5	61.0	Rock is softer due to weakly clay altered Feldspars from numerous small faults.													
@ 58.5	58.7	Short interval of intrusion breccia													
@ 58.8		2 cm fault with gouge 23°CA.													
@ 60.5		Small fault with clay gouge with minor Malachite.													
@ 63.4		10 cm fault zone w/ tectonic breccia and gouge 40°CA													
@ 63.7		5 cm fault zone - same 60°CA.													

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DIAMOND DRILL LOG

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INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A B C D	FRACTURE INTENSITY	MINERALIZATION CP BN PY MAG	ASSAYS SAMPLE FROM TO Cu
@63°	67.	6 Pink envelope Qtz veinlets 55 to 60° CA.				
@61°	67	Minor short sections of Qtz - Sericite-Ankydrite(?) veinlets to weak				
		stockwork development				
@70		Small 3cm shear 60° CA.				
@72°	79	Similar to 61 to 67 Qtz-Sericite weak grey 1-2mm vein stockwork.				
@76.5		1mm Qtz veinlet with faint Malachite				
@79.3	79.7	Short section of weak pervasive Epidote-Chlorite alteration with several vuggy cavities and				
		Hematite-Clay slip 76°CA				
@70	95	Rock is generally unaltered with few pink envelope veinlet alteration.				
@86.8		10cm fault with gouge and breccia				
@90.2		1mm fracture with pink envelope and minor Bornite - faint Malachite 70° CA.			*	
90.3		5cm fault 65°CA gouge + breccia				
@91.0		5cm fault 45°CA gouge and breccia				
@94.6	117.5	Interval is predominantly Chatuway granodiorite with uniformly distributed 17 to 18%				
		2 to 4mm Hornblende and Biotite in subequal amounts; Locally Biotite exceeds				
		Hornblende, usually Hornblende predominates. Large poikolitic Kspars 1cm across are				
		visible here and there. Interval is barren of significant mineralization. Several pink				
		envelope alteration veinlets and fractures throughout, but frequency is less than 1 per m on				
		average (except 109-114 where slight increase in pink envelope fracture occurs.) Fracture density averages 5 to 6 per m. Sparse, grey 1mm Ankydrite - Qtz veinlets				
100.7	101.4	Faulted Section with 3 5 to 10cm faults with breccia and gouge 30° CA. Pink				
		Kspar dykelet faulted in ? 5cm wide.				
104.9	106.0	Breccia Section. Sub angular clasts 2mm to 10cm in grey, compact, comminated matrix.				
		Clasts = adjacent unaltered wall rock. Upper contact gradational; Lower contact sharp at 58°. Red, earthy Hematite slip @105.2 31° CA				
@110.9		Faint Malachite after Bornite on Hematite - Chlorite slip 50° CA			*	

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DIAMOND DRILL LOG

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INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A B C D	FRACTURE INTENSITY	MINERALIZATION CP BN PY MAG Cc	ASSAYS SAMPLE FROM TO Cu
@ 115.9		5cm fault with gouge and breccia. 64°CA.				
@ 117.5	140	Similar to interval 94.6 – 117.5 except for slight increase in total mafic content				
		to 19 or 20% and more conspicuous presence of pink K-spar. Pink and greenish alteration				
		envelopes due to Kspar-Epidote alteration become more pronounced. Frequency of these				
		is 1 to 3 /m. Veinlets are unmineralized. Increasing amount of Sericite in envelopes at bottom of interval.				
@ 130.0	131.1	Broken core with red Hematite and Clay gouge Fault zone				
@ 133°		Brecciated 1cm vein with red Hematite-Clay and broken Qtz	10°CA			
@ 132	139	Sub interval with higher fracture density. 6 to 8 /m.				
@ 134.3		Small slip 40° CA Clay-red Hematite-Chlorite.				
@ 135.3		Contorted microfractures.				
@ 136.3	136.8	Pink aplite dykelet with Malachite Turqoois stain on two fracture. Some Chalcocite			*	
@ 137.8	138.3	Same. – highly fractured				
@ 137.4		5cm Clay-red Hematite crushed zone 15°CA.				
		Lower contact to Roscoe phase is gradational and therefore arbitrary.				
142.0	179.0	ROSCOE GRANODIORITE				
		This unit displays lower total mafic content of 12 to 13% with Hornblende dominant as euhedral 3 to 6 mm				
		Xals. Still cut by fractures with 1 to 2cm pink envelopes with frequency 1 to 3 per m.				
		Fracture density 4 to 7 per m.				
@ 141.6		8cm pink dyke 80°CA.				
@ 142.5	143.8	Fault Zone with some washed out core. Shearing 60 to 70°CA. Hematite-Clay-Sericite-Chlorite				
		present with minor Malachite – (Included in assay interval)				627517 142 145.2 656
@ 144°		2mm Malachite-Bornite-Chalcocite fracture 35°CA.			* *	627518 145.2 147 264
@ 145.1	145.3	Two slightly sheared Malachite-Bornite Chalcocite veins 3 to 5mm at 30 and 20°CA with 3 to 5cm pink alteration envelopes			* *	

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DIAMOND DRILL LOG

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pink = mainly Ksp

INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A (pink)	ALTERATION B (Epid)	ALTERATION C	ALTERATION D	FRACTURE INTENSITY	MINERALIZATION CP	BN	PY	MAG	Cc	ASSAYS SAMPLE	FROM	TO	Cu
@ 149.		Minor Malachite fracture 27°CA.				146							627519	147	150	229
@ 148		Pink (K-spar) Alteration intensity increases in width of envelopes and frequency											627520	150	153	69
@ 154.5		Malachite-Bornite, Qtz 2mm vein 15°CA				148			X			X	627521	153	156	132
@ 158.8		Chalcocite-Bornite Epidote-Qtz vein ½cm 55°CA							X			X	627522	156	159	472
@ 160.0		Sheared Epidote-Qtz-Hematite vein 1cm, 10°CA with Malachite				150							627523	159	162	210
@ 161.3		Small Clay-red Hematite Fault 60°CA. 2cm wide														
@ 161.9		0.3 m Lost Core				152										
@ 162.6		0.3 m Lost Core														
@ 163.1		Fault zone. 20cm Brecciated and Clay-red Hematite gouge 50°CA				154										
@ 164.2	165	Pink granite to aplite dyke. 53°CA upper and lower contact.														
@ 165.7		Small fault 50°CA. 5cm wide.				156										
@ 166.6		10cm fault sheared zone 57°CA														
@ 167	167.2	Pink aplite dyke 45°CA contacts				158										
@ 160	170	Uniform medium grained Roscoe granodiorite. with pale pink alteration envelopes 1 to 4 cm wide														
		accompanied by saussuritized feldspars and locally sericite adjacent fractures 40 to 50° CA				160										
		Large poikolitic Kspar about 1 cm present. 4 to 5 fractures/m average.														
@ 168.5		Red earthy Hematite slip 57°CA				162										
@ 177.3	177.7	Blocky Core - CA parallel shear - small.														
						164										
179.0	197.0	HYBRID ROSCOE / CHATAWAY GRANODIORITE														
		Mixed Roscoe and weakly foliated Chataway phases. with gradational contacts														
		Overall mafic content 15 to 17%. includes assicular dark green fine grained amphiboles														
182.8		Small fault 5cm 50°CA.				166										
185.0	187.3	Section is cut by several fault zones with Clay red Hematite and breccia. 55 to 60°CA.														

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DIAMOND DRILL LOG

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INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A B C D	FRACTURE INTENSITY	MINERALIZATION CP BN PY MAG	ASSAYS SAMPLE	FROM	TO	Cu
@189		Green sericite filled fractures start, with pink Kspar envelopes ½ to 2cm wide, present to end of hole.							
		CA varies 35 to 57° and frequency 2 to 3/m. Unmineralized							
		Lower contact of major interval is gradational and arbitrary.							
		This unit has a low fracture density with average about 2 to 4/m.							
197.0	203.7	ROSCOE GRANODIORITE							
		Cut by similar green sericite veinlets with pink alteration envelopes 40 to 55° CA; 4 to 4/m with envelope; widths 1 to 5cm Some contain Qtz.							
		Massive, uniform unit 4 to 6 fractures/m. Unmineralized. Drusy 2 to 3mm Qtz veinlets here and there 20° CA.				627524	200	201	141
203.7	206.1	HYBRID - ROSCOE / CHATAWAY GRANODIORITE							
		Similar to 179-197m interval. Unmineralized with several green sericite minor red Hematite veinlets with pink Kspar envelopes 1-2cm wide							
		Several drusy Qtz-veinlets 2mm wide 20° CA unmineralized							
@205.1		Small Clay - red earthy Hematite 1cm fault 65° CA. 5cm pink alteration envelope							
206.1	207.7	ROSCOE GRANODIORITE							
		As 197° to 203.7. Upper and lower contacts sharp and irregular 80 to 85° CA.							
@206.6		Small fault with adjacent broken core							
207.7	216.0	HYBRID - ROSCOE / CHATAWAY GRANODIORITE							
		As 203.7 to 206.1. Massive 3 to 4 fractures/m. Short 20 to 30cm of Roscoe granodiorite increasing in frequency toward lower contact.							
		Envelope pinking ½ to 2cm on green sericite veins and fractures with frequency 2 to 5/m, 35 to 60° CA. Unmineralized							
@111.0		Small fault, clay gouge and breccia 60° CA; 5cm; pink alteration envelope in adjacent wallrock.							
@112.4		Small fault Clay red Hematite slip 70° CA; 5cm							
		Drusy 1 to 2cm Qtz veinlets here and there 15 to 45° CA							

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DIAMOND DRILL LOG

PROJECT: CVS
D.D.H. NO.: 93CVS-2
Sheet 8 of 9

INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A B C D	FRACTURE INTENSITY	MINERALIZATION CP BN PY MAG	ASSAYS SAMPLE FROM TO Cu
216°	226.5	ROSCOE GRANODIORITE				
		As 197.0 to 203.7. Massive, few pink veins/envelopes. Near upper contact, unit is similar to				
		Hybrid unit. Unmineralized				
@ 217.3		2cm dark green Sericite pink Kspar envelope 52°CA. Red Hematite slip				
@ 219		Small 5cm fault 72°CA red earthy Hematite slip, gouge and breccia				
@ 220		Small 10cm 52°CA fault, gouge and breccia Clay-Hematite				
@ 222.6		20cm fault 45°CA gouge and breccia Clay-Hematite-Sericite. Calcite Vein				
226.5	229.3	BETHLEHEM GRANODIORITE				
		Generally fine to medium grained darker grey with higher Biotite content than Hornblende. 14 to 16% total mafics. Biotite about 10% as flakes.				
		Pink envelopes on hairline fractures are abundant (~10/m). Maximum envelopes less than 1cm. Unmineralized. Maximum 1-3mm green amphiboles 5%				
229.3	232.2	ROSCOE GRANODIORITE				
		As 197.0 to 203.7. Faulted upper contact 56°CA. Unmineralized. Sharp lower contact, irregular.				
@ 229.6		1cm slip of dark red earthy Hematite 55°CA.				
232.2	274.3	BETHLEHEM GRANODIORITE				
		Similar to 226.5 to 229.3 with coarser grain size. Distinctly mottled by conspicuous Kspar patches about 10%. Bimodal Hornblendes.				
@ 232.2	233°	Blocky core, sericite fractured with several Specularite coated fractures.				
@@ 239.4		Pink K-spar altered zone about 20 to 30cm wide with red earthy Hematite slip 45°CA.				
@ 239°	241°	Fault zone: gouge, clay, red Hematite slips here and there, 70 to 75°CA, brecciated with intense Sericite altered adjacent wallrock. Veinlets with bright				
		red Hematite?, 2mm wide 20°CA at lower part of interval.				
@ 242	249	Unit appears weakly Kspar metasomatized due to presence of pink envelopes on Epidote veinlets with 45 to 70°CA.				
		Frequency 2 to 4/m.				

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DIAMOND DRILL LOG

PROJECT: CVS
D.D.H. NO.: 93CVS-2
Sheet 9 of 9

INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A B C D	FRACTURE INTENSITY	MINERALIZATION CP BN PY MAG	ASSAYS SAMPLE FROM TO Cu
@246.4	247.8	Blocky core. 2cm red earthy Hematite fault 66°CA 2				
@247.8		Calcite-Hematite-Qtz vein 20° CA				
		Below 250 unit is massive with 1 to 2mm green Sericite veinlets (some Epidote), and 1 to 4cm pink envelopes. Frequency 2 to 5/m. Most are 45°CA.				
		Fracture intensity 3 to 6 fractures/m. Occasional pink Zeolite-Calcite 1 to 3mm veinlets cut Sericite and Epidote veinlets.				
@271	272.7	Blocky, fractured, sheared and calcite veined section. Veining 12°CA with Hematite				
@274.3		EOH				

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DIAMOND DRILL SUMMARY

Project No. CVS
Hole No. 93CVS.-3
Page 1 **of** 7

Property CVS
Claim CVS 6
Section ROSCOE ANOMALY SOUTH END

Date Started SEPT. 15, 1993 N
Date Finished SEPT 19, 1993 D.
Logged By S. ENNS
Contractor ATLAS DRILLING, KAMLOOPS
Core Stored At CHATAWAY LAKE LODGE CAMPSITE

CORE SIZE		
FROM	TO	SIZE
17.1	279.8	NQ

TOTAL DEPTH 279.8m
CORE RECOVERY 92.4%

COLLAR SURVEY
NORTHING 5000N
EASTING 3460E
ELEVATION 1457m
BEARING 270°
DIP -60
REFERENCE

DOWN HOLE SURVEY		
FOOTAGE	DIP	AZIMUTH
102.4m	-60°	280°Az
224.3	-59½	281½Az

SUMMARY LOG			ASSAYS					
FROM	TO		FROM	TO	ppm Cu			
0	17.1	OVERBURDEN	48	51	369			
17.1	90.8	CHATAWAY GRANODIORITE: faulted near the top; faults at 17.1-23, 45-50°CA;	51	54	546			
		28.0-41.5 40-60°CA; 47-47.9 5-15°CA; 65.5-67 15°CA. Overlapping pervasive	54	57	628			
		clay and sericite alteration between casing and 64 m, with spotty chalcocite and bornite	57	60	457			
90.8	125.0	FINE TO MEDIUM GRAINED BETHLEHEM(?) GRANODIORITE	60	63	544			
		Unmineralized, except for minor specularite in sheared fractures. A few	63	66	549			
		Roscoe granodiorite inclusions present.	69	69	384			
125.0	279.8	BETHLEHEM(?) GRANODIORITE						
		Becomes coarser grained, massive and below 134 m is an increase	193	196	464			
		in pink K-spar alteration envelopes on sericite, epidote and pink zeolite	218	221	293			
		veinlets. Sparse occurrences of Chalcocite and bornite are present on fractures	227	228	286			
		with specularite 15 to 30°. A short interval (179.3 to 188.2) of alteration is	230	231	263			
		characterized by 30% wallrock pink K-spar adjacent to fractures of sericite 15 to 20°	242	245	764			
		and 20% pervasive sericite. Minor specularite coated fractures 16° noted.	245	248	746			
		Two more short alteration intervals occur at 245 to 251 and 254 to 261 as	248	251	355			
		pervasive pink K-spar cut by epidote sericite fractures, pink zeolite veins and	254	257	1171			
		specularite fracture coatings with minor chalcocite and bornite as weak	257	260	1239			
		copper mineralization.	260	263	538			
		Two fault zones are present; 237.4 to 240.8 70-80° and 263.5 to 264.1						
		A total of 21.3 m of core was lost mainly near the top of the hole in the faulted						
		zone. Lost 42.7 m of casing in the hole						

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DIAMOND DRILL LOG

58.3-65.3

PROJECT: CVS
D.D.H. NO.: 93CVS-3
Sheet 2 of 7

INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A	B	C	D	FRACTURE INTENSITY	MINERALIZATION CP	BN	PY	MAG	Cc	ASSAYS SAMPLE	FROM	TO	Cu
0	17.1	CASING														
													627714	48	51	369
17.1	90.8	CHATAWAY GRANODIORITE											627715	51	54	546
		Blocky, soft in places, poor core recovery to 42.0 m.											627716	54	57	628
		Lost Core 2.9 m 17.1 - 23.2											627717	57	60	457
		2.2 m 23.2 - 26.2											627718	60	63	544
		0.4 m 26.2 - 27.1											627719	63	66	549
		12.8 m 27.4 - 41.5											627720	66	69	384
		0.2 m 41.5 - 42.4											627721	69	72	146
		[18.5 m lost between box 1 + 2.]											627722	72	75	84
		Medium grained granodiorite with uniformly distributed 15 % total mafic content largely sericite altered and partly chlorite altered - Hornblende dominant.														
		Feldspars partially clay altered resulting in soft core. Faulted and unmineralized. Occasional large >1cm poikolitic K-spars														
@ 17.4	23.2	Mostly soft clay gouge and breccia 45 to 50 °CA. as red Hematite slips														
@ 28.0	41.5	Fault breccia and clay gouge 40 to 60 °CA on red Hematite slips.														
		Unit cut by ½ to 1cm pink Zeolite veinlets 10 to 40°CA, cut by clay and sericite fractures, producing very fractured rubbly core.														
		Some Epidote veinlets														
@ 47.0	47.9	Fault zone with gouge and breccia. Slips @ 5° to 15° CA.														
@ 48		Below 48.0 unit becomes harder, but is still highly fractured (10 to 15 fractures/m)						See sheet 2.1								
@ 49.8		Small shear with calcite - Zeolite - red Hematite 46° CA.														
@ 50.3		Small shear. 35° CA.														
@ 50.8		Zeolite - Calcite veinlets 25° CA.														
		Alternate soft intervals are highly broken by microfractures and small shears. Pink Zeolite, calcite veinlets are common. 35 to 60° CA. often with														
		red Hematite. Moderate pervasive and fracture controlled sericite alteration occurs between 58 and 64 m.														
@ 60	63	Broken core.														

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DIAMOND DRILL LOG

PROJECT: CUS
D.D.H. NO.: 93CUS-3
Sheet 2.1 of 7

INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	ALTERATION D	FRACTURE INTENSITY	MINERALIZATION CP	MINERALIZATION BN	MINERALIZATION PY	MINERALIZATION MAG	ASSAYS SAMPLE	ASSAYS FROM	ASSAYS TO	ASSAYS Cu
47.1	65?	Core is very blocky and difficult to log. Granodiorite is altered by pervasive clay alteration (graphic) and weak pervasive sericite. Weak Kspar pinking is present but variable. Kspar is caused mainly by pink zeolite veining, but pervasive alteration possibly related to an event predating clay alteration appears to be present. Mineralization as chalcocite with subordinate bornite occurs in 2 to 5 mm irregularly shaped patches (possibly mafic mineral replacement) that are randomly scattered in the blocky core, and as 1 to 4 mm thin fracture fillings 53 to 60°CA. Examples are at: 49.3 56°CA, 50.1 53°CA 1 to 3 mm chalcocite, several patches between 55.7 and 55.8, 56.4, 57.8, scattered occurrences can be tracked down the hole as far as 71 m.									see sheet 2 for sample intervals			

93.3
41.0
2.7

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DIAMOND DRILL LOG

PROJECT: CVS
D.D.H. NO.: 93CVS-3
Sheet 3 of 7

INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A	ALTERATION B (SER.)	ALTERATION C (CLAY)	ALTERATION D	FRACTURE INTENSITY	MINERALIZATION CP BN PY MAG	ASSAYS SAMPLE FROM TO Cu
@65.5	67.0	Fault Zone 15°CA 3cm Calcite Kspar vein, red Hematite slips				20			
		5 to 25°CA. Lost core 0.6m @66.8.							
		Lost Core 0.5m @ 68.9				24			
		Blocky Core 69.2 to 73.2.							
		Granodiorite becomes harder and less altered below 65.0., but is				28			
		still cut by pink Zeolite - Calcite veinlets (1 to 2/m) 50 to 60°CA							
@75.7		Small fault some breccia and Sericite - Clay altered rock.				32			
@76.8		Small fault 5cm. same as 75.7							
@78.3		Pink aplite dyke 15cm. 75°CA.				36			
@78.9		Small fault breccia and gouge red Hematite gouge 35 and 60°CA							
@80.5		Small fault 53° slip and slickenside surface				40			
@83.2		Small fault breccia.							
		Occasional pink Zeolite-Calcite veinlet and green Sericite filled veins				44			
		Sericite on microfractures common							
@84?	93.4	Blocky core				48			
@90.3	90.8	Fault Zone clay, red Hematite. Sericite, breccia Lost Core 73cm							
						52			
90.8	279.8	BETHLEHEM GRANODIORITE.							
		Fine to medium grained with 15 to 16% 1 to 3mm mafics (Hornblende dominant)				56			
		and uniformly distributed. Massive 4 to 5 fractures/m where good							
		coring. Large 1cm poikilitic Kspar Xals. Chataway or Bethlehem phase?				60			
@98.6		30cm shear zone - contacted, sheared section with irregular slips of							
		Sericite and Chlorite and minor Specularite.				64			

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DIAMOND DRILL LOG

PROJECT: CVS
D.D.H. NO.: 93CVS-2
Sheet 4 of 7

INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A B C D	FRACTURE INTENSITY	MINERALIZATION CP BN PY MAG Cc	ASSAYS SAMPLE	FROM	TO	Cu
@107.5	107.7	Short interval of intrusion breccia subrounded clasts of composition equal to							
		wallrock. mm to 1 cm gradational upper contact, sharp lower contact.							
		2.5cm Epidote – Qtz vein with 5cm pink wallrock envelope 45°CA							
@111.3		Roscoe granodiorite inclusion							
@114.3	116'	Several core axis parallel ½cm veinlets of pink Kspar. Adjacent wallrock Chlorite and Epidote altered minor Calcite.							
		Unit becomes coarser grained below 105m and contains bimodal mafic grain sizes ? Bethlehem phase ?? slightly mottled by							
		Pink Zeolite-Calcite veinlets with pink envelopes 25 to 30°CA. ~½cm. about 1 to 2/m frequency.					pink 10 to 15% Kspar content.		
@125.9		Below 125 unit has distinct mottled pink appearance and bimodal mafic size distribution.							
		and is massive with 5 to 7 fractures/m. Similar to phase at bottom of CVS-2. with fine grained 1-2mm green amphiboles 5 to 6%.							
		Sparse pink Zeolite veinlets 25 to 35°CA, some with green 1mm vein, Sericite and pink K-spar envelope.							
@134.6		Gradual increase in pink Kspar alteration as envelopes on 1 to 5cm wide Epidote, Sericite and Pink Zeolite veinlets.				627568	135	138	78
		Possible weak mineralization Chalcocite and Bornite at 135			*	627569	140	143	191
		at 141.							
		Zeolite veinlets 30 to 37°CA. 1cm wide							
@155.4	157.4	Short interval of pink Kspar pervasive, sericite with Epidote and pink Zeolite Calcite veinlets 20°CA.							
@160°	161.2	Several ½cm pink Zeolite-Calcite veins @ 20 to 25°CA cause pinking of wallrock							
@163.5		Same.				627570	164	167	188
@164.2		1mm Qtz fracture with Specular Hematite and minor Bornite, possible Chalcocite 35°CA.			* *				
@169.2		Small Shear and sericitization of wallrock. 20°CA							
@170.8		Small Sericite shear 20°CA 1cm wide and adjacent igneous breccia							
@173°	175.5	Sheared zone with igneous breccia 30cm wide and numerous small slips of Sericite. Several				627571	172.5	175.5	169
		pink envelope altered fractures 1cm to 5cm wide							
@175.9		Short interval igneous breccia							
@179.3	188.2	Interval contains about 20% wallrock K-spar pink alteration adjacent to fractures of							

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DIAMOND DRILL LOG

PROJECT : CVS
D.D.H. NO.: 93CVS-3
Sheet 5 of 7

INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A (Pink K-spar)	ALTERATION B (Ser)	ALTERATION C	ALTERATION D	FRACTURE INTENSITY	MINERALIZATION CP	MINERALIZATION BN	MINERALIZATION PY	MINERALIZATION MAG	MINERALIZATION CC	ASSAYS SAMPLE	ASSAYS FROM	ASSAYS TO	ASSAYS Cu
		sericite, 1 to 2mm and pink Zeolite 2 to 3mm. 15 to 20° CA. About 20% Sericite											627572	179	182	96
		in this interval as pervasive and fracture controlled. Minor Specularite with 16° CA fractures											627573	182	185	174
		No visible mineralization		GRAPHIC		177							627574	185	188	195
192.7	195.3	Several mineralized fractures of 1 to 2mm Qtz-Sericite with pink				178										
		envelope K-spar; Specularite, Chalcocite ?) minor Bornite. 30° CA.														
		@ 192.6				180			*		*					
		@ 199.6							*		*					
		@ 195.2 @ 205. Bornite in fracture 15° CA				182			*		*					
@ 201	209	Uniformly unaltered granodiorite with few pink envelopes							*				627575	190	193	231
@ 209	212.5	Variably altered granodiorite interval. Cut by Sericite veinlets				184							627576	193	196	464
		15° CA to 25° CA. with adjacent pervasive pink K-spar alteration.											627577	196	199	107
		Mostly blocky core.				181							627578	218	221	293
@ 212.5	237.3	Phase becomes less altered. Mainly 1 to 2mm green Sericite											627723	221	223	158
		fractures (1 to 2/m) with pink K-spar alteration envelopes 1 to 3 cm wide				188							627579	223	224	218
		with CA 10 to 30°. Minor Specular Hematite along oc-											627724	224	227	213
		casional fracture. Fracture density 5 to 7/m. Fresh + massive.				190							627580	227	228	286
@ 219	5	Pink 3 to 4mm Zeolite veinlet with Specularite and minor							*				627725	228	230	142
		Bornite. 2cm pink alteration envelope 17° CA.											627590	230	231	263
@ 22.3.5		25° CA. Fracture with pink Zeolite Specularite and Chalcocite ?									*		627726	231	233	179
@ 227.5		25° CA. Sericite fracture with minor Specularite and Chalcocite									*		627581	235.5	236.5	413
@ 231.1		15° CA Calcite Hematite 2mm vein with minor Specularite and Chalcocite. 5cm pink									*		627728	236.5	237.5	224
		K-spar and Sericite envelope.											627727	233	235.5	149
		Roscoe phase inclusions at 230.9, 231.8.														
@ 236		10° CA. 2mm Qtz-Sericite vein with 5cm pink envelope - Chalcocite ?									*					

gap

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DIAMOND DRILL LOG

PROJECT : CVS
D.D.H. NO.: 93CVS-3
Sheet 6 of 7

INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION (pink Kspar B, Ser C, Chl. D)	FRACTURE INTENSITY	MINERALIZATION (CP BN PY MAG CC)	ASSAYS SAMPLE	FROM	TO	Cu
237.4	240.8	Fault Zone - Crushed, sheared and brecciated - gouge				627582	237.5	239.5	204
		Slips 70 to 85°CA, some CA parallel Sericite - Clay slips with			NOTE: 627583 NOT TAKEN	627729	239.5	242	288
		minor red Hematite. Parts look Kspar flooded with intense Sericite.				627584	242	245	764
@ 241	251	Blocky core below fault - highly fractured - 15 fractures/m 30 to 45°CA				627585	245	248	746
		Epidote - Sericite - Chlorite red and Specular Hematite are common to fractures				627586	248	251	355
@ 245	251	Pervasive pink Kspar alteration intense. Cut by numerous Sericite			*	627730	251	254	102
		± Epidote fractures 25 to 35°CA. and several pink Zeolite veins							
		Hematite (red) and Specularite commonly present with minor							
		Chalcocite and possible minor MoS_2? (both fine grained mixture				627587	254	257	1171
		with Specularite). Trace Bornite present. Sericitized mafics				627588	257	260	1239
@ 250.1		Small 2cm fault. 18°CA.				627589	260	263	538
@ 254.5	261	Pervasive, less intense Kspar alteration interval - variable. Also			*	627731	263	266	631
		variably Sericite altered as fractures and pervasive. Cut by 1mm				627732	266	269	146
		Specularite, minor Chalcocite mineralization fractures. 6 to 7/m throughout							
@ 259.7	260.3	Soft crushed sheared zone w/ some 1 to 2 cm gouge 30°CA.							
		Becomes massive, unaltered less blocky below 261 to 263							
@ 263.5	264.1	Fault zone - gouge and breccia							
@ 264.1	266.5	Blocky core. Slight pervasive pinking and high							
		fracture density 10 to 15/m. Epidote - Sericite fractures 30 to 50°CA							
@ 267.3	269.0	Similar to 264.1 to 266.5 - Minor shearing							
@ 269.0		Core becomes massive, less fractured + altered below 269.							
		with occasional pink envelope altered fractures 50 to 60°CA and dtz-							
		green Sericite veins 10°CA.							

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DIAMOND DRILL LOG

PROJECT: CVS
D.D.H. NO.: 93CVS-3
Sheet 7 of 7

INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A (pink K-spar)	ALTERATION B (Ser)	ALTERATION C	ALTERATION D	FRACTURE INTENSITY	MINERALIZATION CP	BN	PY	MAG	ASSAYS SAMPLE	FROM	TO	Cu
@279.8		End of hole.													
						264									
						266									
		Lost core was total of 21.3 m													
		$100\% - \left(\frac{21.3}{279.3} \times 100\right) = 92.4\%$ Recovery				268									
		Lost 140 ft of casing on pulling off. Casing was				270									
		pushed down to that depth to alleviate poor ground													
		conditions in upper part of hole. Rods began whipping badly				272									
		around 700 ft. To continue hole to greater depth would have													
		required reducing to BQ.													

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DIAMOND DRILL SUMMARY

Project No. CVS
Hole No. 93CVS-4
Page 1 **of** 10

Property CVS
Claim CVS 8
Section BILLY LAKE ANOMALY. NORTH END

Date Started SEPT 19, 1993 N
Date Finished SEPT. 23, 1993 N
Logged By S. ENNS
Contractor ATLAS DRILLING, KAMLOOPS
Core Stored At CHATAWAY LAKE LODGE CAMPSITE

SUMMARY LOG			ASSAYS					
FROM	TO		FROM	TO	ppm Cu	ppm Ag		
0	3.3	OVERBURDEN	42	45	410			
3.3	167.6	CHATAWAY GRANODIORITE: medium to coarse grained hornblende dominant.	45	48	519			
		Weak malachite specks 27 to 28. Short altered section 32.5 to 35 of sericite on 25-30°	157	159.2	283			
		fractures with minor native copper along fractures and minor dissemination with	159.2	162.2	528			
		mafic sites - probably late hypogene. Fault at 59. Short altered intervals of	172	175	321			
		weak K-spar envelopes and 10-20% pervasive sericite at 87-94; 95-96; 97.2-101.	175	178	306			
		*Occasional disseminated native copper specks 115-118. Fault at 127.1 and 130.5	178	181	407			
		127.9 to 129.9 fine grained granodiorite dyke. Native copper specks here and there	181	183	597			
		and in fractures 15-20° between 130 and 163.	183	185	518			
167.6	385.0	BETHLEHEM GRANODIORITE	185	187	465			
		Disseminated native copper and associated with fractures and small veinlets.	187	189.4	3841	1.8		
		Short interval between 185 and 189.4 of medium to coarse grained Chataway granodiorite - hornblende	189.4	190	286			
		dominant with minor disseminated native copper and chalcocite in fault	190	193	332			
		Fault at 201.8 65 to 75°. Short intervals of weak K-spar pink envelope	193	196	334			
		on Quartz-sericite fractures plus pervasive sericite alteration at 210-	196	199	300			
		214; 230-235; 283.5-300. Fault at 305. Small granodiorite dyke at	212	214	325			
		380-383. Several chalcocite veins and chalcocite on faintly Kspar altered	329	332	390			
		vein margins 20 to 45°. These are generally too widely spaced to be of	362.3	363.3	375			
		sub-economic interest	364.8	365.8	3294	1.8		
385	410	CHATAWAY GRANODIORITE: gradational contact over about 10 m.	378	380	352			
			383	385	290			
		* Native copper content though difficult to estimate, does not exceed	395	398	235			
		½% across a 1 metre interval.						

CORE SIZE		
FROM	TO	SIZE
0	410.1 m	NQ

TOTAL DEPTH 410.1
CORE RECOVERY +99%

COLLAR SURVEY	
NORTHING	7000N
EASTING	4550 E
ELEVATION	1442 m
BEARING	270°
DIP	-60°
REFERENCE	

DOWN HOLE SURVEY		
FOOTAGE	DIP	AZIMUTH
56.3	-60°	275°
187.7	-59°	278°
382.8	-57½	284

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DIAMOND DRILL LOG

PROJECT : CVS
D.D.H. NO.: 93CVS-4
Sheet 2 **of** 10

INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A	B	C	D	FRACTURE INTENSITY	MINERALIZATION CP	BN	PY	MAG	Cc	Cu	ASSAYS SAMPLE	FROM	TO	Cu
0	3.3	CASING															
3.3	127.9	CHATAWAY GRANODIORITE															
		Massive rock with uniformly distributed 15 to 16% 2 to 6mm															
		mafics - Hornblende dominant. Unaltered, fresh. except for occasional dark green Sericite envelopes at 4.5, 4.6, 11.4, 11.7, 12.0 on 23°CA												Also 12.5, 12.7 fractures			
		Blocky core 4.6 to 6.0															
		Above 20m fracture density is 9 to 10/m															
		Blocky and crumbly core 13.4 to 15.2															
@17.1		Small intrusive breccia 10cm wide sub rounded clasts.															
@18.6		Sheared intrusive breccia 20cm wide, subrounded clasts 55°CA.	shearing														
		Trace Malachite at 27.5, 27.7, 28.0.															
@29.4		Small fault, 5cm, 30°CA.															
@30.5		Small fault, 5cm 25°CA adjacent intense Sericite alteration															
		Minor KSpar pink alteration adjacent to fractures and overall white															
		clouding of feldspars.															
@32.5	35.0	Wide 10 to 20cm bands of pervasive dark green Sericite alteration															
		that are fracture controlled 25 to 30°CA.															
@33.6	33.9	Small fault, 30cm, gouge and breccia 40°CA															
@35.3		Speck of Chalcocite										*					
@36.1		Specks of Native copper.											*				
@36.7	38.0	Minor spots of Malachite after sparse specks of Chalcocite.															
@41.4	42	Finer grained inclusion w/ minor Native Copper specks <1/8%											*				
@42.4	42.7	Small fault 35°CA w/ Sericite and clay gouge. Minor Native Copper.											*				
		Occasional 5 to 10cm dark green Sericite envelopes on fractures 35 to 40°CA															

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DIAMOND DRILL LOG

PROJECT: CVS
D.D.H. NO.: 93CVS-4
Sheet 3 of 10

INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A	B	C	D	FRACTURE INTENSITY	MINERALIZATION CP	BN	PY	MAG	Cc	Cu	ASSAYS SAMPLE	FROM	TO	Cu
@ 45.4		Small fault 10cm 60° CA															
@ 45.4	45.7	Small black shear parallel to CA - graphitic															
@ 45.7		Small 5cm shear 57° CA graphitic with Native Copper - supergene										*					
@ 46.4		Small 2cm shear 55° CA with Native Copper - extends along CA parallel										*		627591	39	42	233
		fracture up to 46.2 - Supergene												627592	42	45	410
		Core becomes more massive below 47.0. Sparse Native Copper specks												627593	45	48	519
		are also associated with hornblende crystals. (Supergene ??)															
@ 51.2		Fracture 20° CA w/ chloritized mafics (Hornblende) along fractures and										*					
		Native Copper, also associated with mafics and magnetite. - Sample Removed. (Hypogene)															
@ 55.3		Small Sheared section												627594	57	60	91
		Dark green sericite 10 to 20cm on faulted sections and on large fractures at												627595	60	63	120
		52.8, 56.7 20° CA, 57.0 20° CA, 58.9 to 59.5, 60.4, 60.8 20° CA.												627596	63	66	93
@ 58.9	59.5	Fault Zone 14° CA Clay and red Hematite gouge															
@ 60.4		Small fault zone 40 and 20° CA.															
@ 63.2		Small fault zone 36° CA Sericite altered 20cm. - Trace Native Copper and										*					
		pinking of granodiorite below to 64.0.															
@ 67.4		Small fault 40° CA, 20cm shearing and sericite alteration. Minor Native Copper										*		627597	67	68	68
		Trace disseminated Native Copper in granodiorite within and without mafics.												~~627598~~			
@ 71.5		Minor Native Copper associated with microfracture										*					
@ 71.8	73.0	Weakly sericitized feldspars caused by 3 to 4mm white Qtz veinlet set 15° CA															
@ 75.1		Small fault 20° CA. red earthy Hematite slips. Sericite altered												627598	75	77	107
@ 76.3	76.7	Sheared and faulted section. Shiny sericite altered - minor Native Copper										*		627599	77	79	40
@ 77.3		Small fault 20° CA 10cm wide sericite altered.												627600	79	82	71
@ 75.0	81.0	Fractured with weak sericite alteration and chloritized mafics.															

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DIAMOND DRILL LOG

PROJECT: CVS
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Sheet 4 of 10

INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A B C D	FRACTURE INTENSITY	MINERALIZATION CP BN PY MAG	MINERALIZATION Cu	ASSAYS SAMPLE	FROM	TO	Cu
@ 80.8	81.1	Fault Zone - Lost Core 0.5m 57°CA red earthy Hematite slips. Minor Native Copper				*				
@ 81.4	81.9	Fault Zone. Soft contorted fractures with Clay, red Hematite, Sericite and								
		minor Native Copper				*				
@ 83.3	83.5	Small fault w gouge clay and Sericite								
		Granodiorite is weakly pink K-spar altered in vicinity of faults, and by occasional								
		red Zeolite and sericite filled fractures.								
@ 87.0	99	General higher pink Kspar content as weak alteration, also pervasive								
		Sericite content is higher ~20 to 30%, Mafic minerals are weakly Chlorite altered.								
@ 88.8	89.4	CA parallel section is sheared and cut by two pink 1cm Zeolite veins. Specularite present								
@ 92.0	92.4	1cm thick pink Zeolite vein system parallel to CA. Adjacent wallrock strongly Sericite altered								
@ 95	96.0	Same type Zeolite veining and alteration as 87 to 91 - Caused by pink Zeolite Veins								
@ 97.2	101	Same type pink K-spar and weak Sericite alteration as 87 to 91								
@ 97.6		1 to 2cm pink Zeolite - White Calcite Vein 15°CA. Overall mottled appearance								
@ 99.3		Red Hematite slip 15°CA								
@ 100.1		Disseminated Native Copper with Hornblende - hypogene?				*	627601	99	102	78
97	101	Fracture density average 6 to 7/m. with occasional sericite fractures 1 to 2/m.								
@ 97.2	121.9	Mottled pink K-spar and weak Sericite pervasive alteration - Mafic weakly Chlorite altered								
		Caused by ? CA parallel pink Zeolite veins? Occasional specks of Native Copper (fine + thin)				*				
@ 109.5		Pink CA parallel Zeolite vein accompanied by calcite and minor red Hematite								
@ 116.3		30cm highly fractured pink aplite feldspar porphyry dyke								
@ 117.4		Pink Zeolite-calcite vein 1 to 2cm CA parallel.								
@ 119.7	120.7	Core axis parallel shear and fracturing with red Hematite slips, and extensive								
		Sericite								
@ 121.7		Trace Turquoise and Native Copper.				*				

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DIAMOND DRILL LOG

PROJECT: CVS
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INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A	B	C	D	FRACTURE INTENSITY	MINERALIZATION CP	BN	PY	MAG	Cu	ASSAYS SAMPLE	FROM	TO	Cu
121.9		Granodiorite becomes less altered to pristine mafics: @ 124.8 drusy Qtz vein Xals 5mm x 1cm														
125.1		White aplite dyke 20cm, 50°CA.														
126.8		1mm Qtz-Sericite vein 10° CA with minor Native Copper.										*	627602	126.5	127.5	65
127.1		Fault. Rubbly core Lost Core 1.9m.														
/																
127.0	129.9	MEDIUM GRAINED GRANODIORITE DYKE														
		Finer grain size and more leucocratic granodiorite; about 12%, 2 to 4mm Hornblende														
129.9	167.6	CHATAWAY GRANODIORITE														
130.5	130.8	Fault Zone with contorted fractures, slips and narrow clay gouge zones 45° CA.														
@132.0		2cm Qtz vein, white, 30°CA with strong sericite alteration and pink K-Spar envelope - No mineralization														
@132.2	132.7	Medium grained granodiorite dyke. faint foliation of mafic minerals 40° CA														
@133.2		10cm pink feldspar porphyry dyke 50° CA.														
@136.2		Small fault 44° CA. 10cm, gouge, adjacent pink K-spar, Epidote and Sericite (30cm)														
@142.1		10cm fine grained granodiorite dyke 80° CA														
@143.3		Small fault 40° CA gouge, clay and sericite														
		Several CA parallel to 15° CA pink Zeolite-calcite veins 2 to 4mm - pristine Chataway phase - massive 3 to 5 fractures/m.														
@145.2	145.5	Fine grained granodiorite dyke 65° CA.														
@145		Massive 3-5 fractures/m, coarse grained Chataway granodiorite with 16 to 17% uniformly distributed mafics. 2 to 5mm Hornblende dominant.														
		This is cut by a weak Zeolite-Calcite stockwork 4 to 6/m 30 and 60° CA. That cause minor envelope pinking. Largely unmineralized except														
		for a few minor occurrences of Native Copper as noted.														
@149.3		Minor Native Copper on 40° CA sericite-red Hematite fracture										*				
@155.4		Whereas other fracture occurrences of Native Copper could be of Supergene origin this occurrence looks hypogene										*	607603	155	157	75
@155.5	156	See 1mm faint Qtz filled fractures with sporadic Native Copper along these 5 to 15° CA										*	627604	157	159.2	283

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DIAMOND DRILL LOG

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INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A	B	C	D	FRACTURE INTENSITY	MINERALIZATION CP	BN	PY	MAG	Cc	Cu	ASSAYS SAMPLE	FROM	TO	Cu
@158.3	161.3	Open space fractures with Qtz and minor Native Copper - Late Hypogene											*				
@159.2		Ground Core - fall back material?															
@164.5		Sericite fracture 20°CA w/ 2cm pink envelope Ksp + Native Copper on fracture											*	627605	159.2	162.2	528
@166.4		0.6 m dyke fine grained granodiorite incipient Sericite alteration															
167.6	185	BETHLEHEM GRANODIORITE															
		Medium grained with finer grained contact phase down to about 169.0															
		with 15% 2 to 3 mm total mafics, mainly Hornblende w/ 5 to 7% 2-3 mm biotite															
@173.8		Minor disseminated Native Copper											*				
@175.0		Native Copper on fracture + dissemination											*	627606	172	175	321
@168.5		Pink 2 to 5 mm Zeolite veins with minor calcite as weak stock work and pink Kspar alteration cuts unit. Throughout												627607	175	178	306
@173	175	Drusy cryptocrystalline quartz veinlets with a density of 2 to 3 per m.												627608	178	181	407
@176.4		Disseminated Native Copper - More very fine grained disseminations may be present than noted											*	627609	181	183	597
@176.9		Qtz-sericite vein 3 to 4 mm, 10°CA. w/ wire and crystalline Native Copper or crypto crystalline Qtz and clear Zeolite.											*	627610	183	185	518
@183	184.5	Weak Sericite alteration and microfracturing - Native Copper in fractures and disseminated (Sample)											*	627611	185	187	465
@184.9		Chataway inclusion in Bethlehem phase → Native Copper still present in less altered granodiorite											*	above sericite altered interval.			
														627612	187	189.4	3841 Ag 1.8
185.0	189.4	CHATAWAY GRANODIORITE												627761	189.4	190	286
		Same coarse Chataway phase as above - 167.6															
		Native disseminated copper still present as trace but much less than unit above. (except near small fault)															
@187.9		10cm small fault 18°CA, Malachite with minor Chalcocite?											*				
189.4	380.0	BETHLEHEM															
		as 167.6 to 185, massive 4 to 5 fractures/m, becomes coarser															
		below the contact and is cut by pink fracture stockwork 3 to 4 per m															

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DIAMOND DRILL LOG

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INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A B C D	FRACTURE INTENSITY	MINERALIZATION CP BN PY MAG Cc	ASSAYS SAMPLE	FROM	TO	Cu
		of Zeolite, and sericite							
@ 190.8	191.5	Sheared, faulted section 60 to 74°CA - soft clay - sericite				627613	190	193	332
@ 201.8		Fault Zone 65 to 75°CA soft gouge adjacent wallrock alteration 0.5m away.				627762	193	196	334
@ 202		Becomes coarser grained, fresh black mafics and mottled Kspar patches, massive unit below fault.				627763	196	199	300
@ 210	214	Weak stockwork of pinking envelopes adjacent to quartz, sericite fractures and Zeolite veins 35°CA. 2 to 3/m.							
		Open space fgr. and crypto crystalline quartz, clear Zeolite 211.2, 212.0 to 214.0 No visible mineralization. Looks epithermal.							
		Weak clay alteration							
@ 215		Becomes massive with short intervals of microfracture with Qtz and clear Zeolite gen space filling							
		and is unaltered Tombstone. 3 to 4 fractures/m. Poikolitic Kspars are present.				627614	212	214	325
@ 228.4		5cm fault 20°CA. gouge - breccia							
@ 230	235	Weak stockwk same as 210 to 214, 65 to 70°CA, 2 to 5/m							
@ 244		Open space vein filling with clear Zeolite crystals? Sample for ID.							
@ 249	250.5	Short interval with 6 pink fractures/m <1cm pink envelopes							
@ 248.6		1cm Sericite - pink Zeolite - Calcite vein 27°CA 2cm envelope							
@ 254.4		Same 27°CA.							
		Several 1 to 2cm dark gray mafic rich inclusions scattered throughout							
@ 259.4		20cm fault zone 55 to 64°CA gouge of clay - tectonic breccia.							
@ 240	260	Unit is uniform and massive 2-5 fractures/m, characterized by uniformly distributed mafics							
		about 15% total 2 to 5mm. (8% Hornblende 7% Biotite). Mottled pink/pink Kspar 1/2 to >1cm patches ~20%							
		often displays poikolitic habit in core. Subhedral Quartz is 1 to 3mm about 10 to 15%. This unit may be a medium grained							
		(finer than 185.0 to 189.4) Chateaway granodiorite.							
@ 262.0	262.4	Moderate Kspar pink alteration, mafics chloritized due to sericite filled fractures 25°CA							
@ 268.2	268.7	Fractured section with gen space Zeolite veins, weak clay alteration and Bornite - Chalcocite mineralization *				627615	268	269	193
@ 270.9	270.4	Unit grades into coarser phase with 4 to 6mm Hornblende and then back into medium grained phase also at 267 over							
@ 270.8	273.6	Blocky core in more fractured section with local shears and strong pink alteration plus sericite.							
@ 270.4		1 to 2cm CA parallel minor fault.							

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DIAMOND DRILL LOG

PROJECT: CVS
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INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A B C D	FRACTURE INTENSITY	MINERALIZATION CP BN PY MAG CC	ASSAYS SAMPLE FROM TO Cu
@274.1	275.7	Fractured black argillite with several sericite epidote calcite veinlets 25° CA, Kspar pink alteration				
@275.7	278.8	CA parallel 2 to 10mm open space veins with clear Zeolite. Some calcite, pinking of adjacent wallrock. No mineralization				
@280.3		Small fault 50° CA. Clay - Sericite - Calcite and some Zeolite				
@281.3		10 to 20cm wide fault w/ breccia, Clay-Sericite - Calcite 30° CA				
@283.7		10cm small fault 35° CA with Sericite and Clay alteration				
@283.5	300	Weak pink Kspar envelope/fracture and sericite 1+2mm stockwork (respectively 10 to 15° and 40° CA)				
		Frequency 3 to 5/m. Variation in stockwork intensity. Sericite alteration intensity increases near tunnel shears and faults				
@287.7		Small fault 90° CA 5cm wide.				
@294.9		8 to 10 mm pink Zeolite calcite vein 30° CA. with local pink Kspar envelope.				
@295.8		small fault 5cm 45° CA to 15° CA				
@296.1	297.3	several irregular red Hematite slips w/ clay + fine grained breccia CA parallel - pinking Kspar envelope.				
@298.5		2mm pink Zeolite Sericite vein 55° CA, 2cm pink Ksp. envelope - minor Bornite			*	
@300		Weak pink Kspar envelope stockwork gradually fades. Intrusive displays coarser, more euhedral Hornblende (like Roscoe phase)				
@		Unit is massive with 2 to 3 fractures/m				
@305.2		Fault Zone. gouthy core				
@308.4		1cm Quartz Sericite Vein with Chalcocite on margins 30° CA. 5cm pink Kspar envelope			*	
@311.1		40° CA 10cm shear w/ black irregular fractures and microbreccia				
@311.6		3 to 4mm Qtz - Sericite vein 22° CA. with Chalcocite and Bornite margins			*	*
		5cm pink K-spar envelope				
@314.9		25° CA 1 to 2mm Qtz veinlet with Chalcocite				*
		Massive Tombstone rock.				
@319.7		Small 5cm intrusive breccia				
@321.3		Qtz - Sericite Veinlet 25° CA with Chalcocite on margins	2cm Kspar pink envelope		(Specimen	*
@326.7		27° CA 2-3mm Chalcocite, Bornite Veinlet with weak 3cm Kspar pink and sericite alteration			* Taken)	Best Yet!

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DIAMOND DRILL LOG

PROJECT : CVS
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INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A B C D	FRACTURE INTENSITY	MINERALIZATION CP BN PY MAG Cc	ASSAYS SAMPLE	FROM	TO	Cu
@ 330.3		1mm Qtz-Sericite veinlet w/ 1.5cm pink Ksp. envelope 27° CA	w/ Chalcocite and Bornite		* *	627616	329	332	390
@ 331.2		Pink Qtz-Sericite veined shear with pinking and minor Chalcocite 30° CA			* *	627617	332	335	77
@ 330.5		Same as 331.2			*				
@ 332.6		1mm Qtz Chalcocite veinlet cut by pink fracture 28° CA			*				
@ 330.7	333.5	Interval is more intensely pervasive Sericite and Kspar altered than elsewhere							
@ 334.2		Qtz Sericite fracture 30° CA. 2cm pink Ksp. envelope - minor chalcocite			*				
@ 334.7		Pink Zeolite vein 30° CA.							
@ 336.9		Small shear with adjacent microfracturing 75° CA Hematite present.							
@ 337.6		60° CA small fault with gouge							
@ 338.8	340.0	Altered section pink Kspar with variable sericite and local small shears. 60° CA Blocky Core.							
		Open space Zeolite (clear) veinlets criss-cross here and there				627619	354.8	355.8	45
@ 344.5		1mm pink envelope veinlet with minor Bornite 21° CA			*				
@ 351.5		37° 2 to 4mm Qtz Sec Zeolite veinlet with Chalcocite			*				
@ 354.6		2 to 3 mm 26° CA Qtz Sericite Veinlet 1cm Kspar envelope - Bornite, Chalcocite			* *				
@ 353.5		Open space Zeolite filled vugs.							
@ 358		Several 25 to 35° CA pink envelope fractures are present but lack mineralization. - 5 sample							
@ 362.5		26° CA 1mm Chalcocite veinlet with no pink envelope			*	627618	362.3	363.3	375
@ 363.7		Same			*	627704	363.3	364.8	66
@ 363.8		12° CA Qtz-Sericite green vein with 2cm pink Kspar envelope - no mineralization						no gap	
@ 354.9	355.8	Fault Zone with gouge and breccia - minor Bornite with Specularite and red Hematite slip. 20 to 35° CA			*	627620	364.8	365.8	3294 Ag 1.8
@ 367.6		Small fault 40° CA gouge, clay and breccia.				627765	365.8	368.8	131
@ 366.7	369.0	Variably sericite altered section (localized to fractures) above fault Zone				627766	368.8	371.8	9
@ 369.0	371.3	Large fault Zone - intensely sericite altered and variably silicified Slips with 20° CA				627767	371.8	374.8	72
@ 371.3	376.4	Fractured and variably weakly altered (chloritized mafics and local pink Kspar) and sericite altered sheared short sections.							

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DIAMOND DRILL LOG

PROJECT: CVS
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INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	ALTERATION D	FRACTURE INTENSITY	MINERALIZATION CP	MINERALIZATION BN	MINERALIZATION PY	MINERALIZATION MAG	MINERALIZATION Cc	ASSAYS SAMPLE	ASSAYS FROM	ASSAYS TO	ASSAYS Cu
@ 376.4	380	Granodiorite is fractured in places and sheared with several 30° CA microfault slips											627768	374.8	378.0	122
		Variable pinking by K-spar alteration											627621	378	380	352
@ 378.2		Chalcocite minor Bornite fractured veinlet								+		+	627622	380	383	159
@ 378.4		Minor chalcocite on vein margin										+	627623	383	385	290
380.0	383.0	FINE GRAINED GRANODIORITE DYKE														
		Irregular lower contact, upper contact 50° CA sheared.														
@ 381.5		Trace Chalcocite w/ 30° CA green sericite-Qtz veinlet										+				
@ 382.4		Black graphitic shearing														
383.0	410.1	CHATAWAY GRANODIORITE ← gradational contact. (MAIN Rock Unit to end.														
@ 383.7	383.9	Small fault with 70 to 80° CA														
@ 384.3		Small 2 mm Chalcocite filled fracture 45° CA pink Kspar envelope										+				
@ 384.7		Same										+				
@ 384.9		Green Qtz-Sericite vein 20° CA - no mineralization														
@ 383	385	Moderate intensity Kspar pervasive alteration.														
@ 385		Below 385 massive granodiorite with occasional pink envelope fracture (1 per 2-3 m.)														
		and open space clear Zeolite veinlets here and there: Fracture intensity is 2 to 4 per m.														
@ 395.2		20° CA green Qtz-Sericite vein with pink Kspar envelope 1 cm - Chalcocite										+	627624	395	398	235
@ 396.5		CA parallel vein same as 395.2										+				
@ 397.4		Same as 396.5										+				
@ 405.7		1 cm green Qtz-Sericite vein 20° CA cut by several fractures - no mineralization pink Kspar envelope 3 cm.														
@ 406.9	407	Several more 1-2 mm similar veinlets with weak Kspar envelope - no mineralization														
@ 398	410	Grain size variation in granodiorite - locally has appearance of Rossoc phase - pristine mafics														
@ 410.1		End of hole.														

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DIAMOND DRILL SUMMARY

Project No. CVS
Hole No. 93CVS-5
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Property CVS
Claim CVS-8
Section CENTRE OF BILLY LAKE ANOMALY AT DEPTH - AND TO TEST INVERSION MODELLING ANOMALY.
Date Started SEPT. 24, 1993 N
Date Finished SEPT. 29, 1993 D
Logged By S. ENNS
Contractor ATLAS DRILLING, KAMLOOPS
Core Stored At CHATAWAY LAKE LODGE CAMPSITE

CORE SIZE		
FROM	TO	SIZE
0	404.2	NQ

TOTAL DEPTH 404.2 m
CORE RECOVERY +99%

COLLAR SURVEY
NORTHING 6460N
EASTING 4410E
ELEVATION 1472.2 m
BEARING 000° Az
DIP -75°
REFERENCE

DOWN HOLE SURVEY		
FOOTAGE	DIP	AZIMUTH
77.7m	-76°	001°
247.2m	-76 1/2	00 3 1/2°

SUMMARY LOG			ASSAYS					
FROM	TO		FROM	TO	ppm Cu	ppm Ag		
0	3.3	OVERBURDEN						
3.3	245°	CHATAWAY GRANODIORITE. Above fault zone 142.1-147° granodiorite	56.5	59.5	243			
		is punctuated by several short altered intervals of pink K-spar envelope bleaching	93°	96°	363			
		sometimes with sericite fracture accompaniment. Pink zeolites almost always	96°	98°	432			
		are associated with the alteration. Native copper occurs in minor amounts on	142°	145°	502			
		fractures and as disseminations in a mafic dyke at 43 m, and in granodiorite between 55 to 98. It displays	152.5	154.7	743			
		an affinity for mafic minerals and magnetite. Discrete chalcocite and/or bornite	198°	201°	265			
		veins occur with little or no associated alteration at 32 to 46° to CA. Pink aplite	201°	204°	337			
		dyke cuts granodiorite at 5°CA 98.1-101.7. Below the fault at 147° are	206°	209°	424			
		two short altered intervals. Pervasive, intense sericite alteration occurs 166°	283.5	285.5	215			
		to 177.2 associated with several faults. K spar pink alteration is related to a	285.5	287.5	1139	0.8		
		sericite in quartz fracture system 206-215. Sparse native copper occurs	287.5	289.5	227			
		with the fault at 147, and between 195 and 225 in fractures of weakly altered						
		rock or with late zeolite veinlets. Several discrete chalcocite-bornite veins cut						
		at 32 to 47°CA. Kspar pink associated with pink zeolite veining occurs at 362 to 373.						
245	365	CHATAWAY GRANODIORITE - FINER GRAINED PHASE is altered locally by						
		short pervasive Kspar intervals some with sericite fractures. Pervasive						
		sericite alteration is associated with faults between 262 and 268.8. Several						
		discrete chalcocite or bornite veinlets 1 to 2 mm wide cut at 30 to 55° CA.						
365	402.7	CHATAWAY QUARTZ MONZONITE - PINK PHASE is transitional (with no contact)						
		from above unit. 3 chalcocite-bornite 1 mm veinlets cut at 35 to 60° CA.						
402.7	404.2	CHATAWAY GRANODIORITE - FINER GRAINED PHASE.						
		Note: Most Kspar pinking is caused by pink zeolite veining, a subordinate amount is due to sericite-Otz veinlets and fractures.						

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DIAMOND DRILL LOG

PROJECT : CVS
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INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	ALTERATION D	FRACTURE INTENSITY	MINERALIZATION CP	MINERALIZATION BN	MINERALIZATION PY	MINERALIZATION MAG	MINERALIZATION CC	MINERALIZATION Cu	ASSAYS SAMPLE	ASSAYS FROM	ASSAYS TO	ASSAYS Cu
0	3.3	CASING															
3.3	98.1	CHATAWAY GRANODIORITE															
		17 to 18% 2 to 4mm mafics, Hornblende dominant, uniformly distributed and even grained - typically medium to coarse grained - varie															
		Blocky core down to 8.5m.															
		Several Sericite - Kspar envelope fractures 15° and 50° CA. at 5.1 and 6.8															
@ 6.3		1mm Qtz - Sericite vein with Bornite 47° CA								*							
@ 8.1	8.3	Small fault zone 47° CA.															
@ 12.0		Small fault 2cm 43° CA with several pink K-spar envelope veinlets with epidote and															
		localized shearing															
		Large poikolitic Kspar xals >1cm visible here and there, the unit has a mottled appearance from															
		large K-spar patches 25 to 30% (Similar to hole 93CVS-4). Locally gradation to finer															
		grained phases are apparent. Massive 3 to 5 fractures /m.															
@ 23.4		10° CA 2mm Qtz - Kspar veinlet with weak sericite alteration envelope - specks Bornite								*		*					
		and Chalcocite															
@ 25.0	26.0	Minor native copper disseminated (<< ½%) - check analysis											*	627625	25.0	26.0	93
@ 26.9		10° CA 4 to 5mm diffuse Qtz - Kspar vein with adjacent Sericite alteration and								*		*					
		pink Kspar envelope Minor Chalcocite and Bornite												627783	40.8	43.8	97
@ 42.8	43.4	fine grained mafic dyke 65° CA. - minor disseminated native copper											*	627784	43.8	46.8	79
@ 46.8		same. - more disseminated copper											*	627626	46.8	47.2	825
		Several sparsely distributed weakly bleached Qtz veinlets 20° CA - no mineralization 1 per 2 to 3 m frequency												627785	47.2	50.2	113
@ 47.9		30° CA Qtz Sericite vein - Sericite envelope - disseminated Native Copper											*	627786	50.2	53.2	168
		on margin and vein envelope - hypogene - sample taken												627787	53.2	54.5	97
		Two or three more similar veinlets with and without alteration envelopes carry trace amounts of												native copper from 48.0 to 53.0			

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DIAMOND DRILL LOG

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INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A B C D	FRACTURE INTENSITY	MINERALIZATION CP BN PY MAG	MINERALIZATION Cu	ASSAYS SAMPLE	FROM	TO	Au	Cu
@ 53.6	54.4	Clay filled fractures ~10 per m.									
@ 54.5	60.7	Weakly bleached fractures with Native Copper distributed sparsely along margins			Wallrock	*	627627	54.5	56.5		176
		frequency is 4 to 5/m., 20 to 30°CA.					627628	56.5	59.5		243
@ 60.7	61.4	Pink granite and Qtz aplite - disseminated magnetite 1-1½%					627629	59.5	60.7		81
@ 61.4	64	Core parallel vein with bleached margins - varying amount of native copper					627630	61.4	64.4		315
@ 64.5	69.4	Native copper in wallrock adjacent to vein. - sample perpendicular to vein				*	627631	64.4	67.4		182
		Weakly bleached fractures with variable distribution of Native Copper adjacent to vein					627632	67.4	69.4		192
		in wallrock. Most fractures are 15 to 20°CA									
@ 69.4	71.6	Interval of pink Kspar alteration and pink zeolite veining stockwork blocky core					627633	72°	74°		170
@ 71.6	87°	Stockwork intensity of weakly bleached fractures decreases. Still find sparse									
		occurrences of Native Copper dissemination here & there associated with bleached					627634	79°	81°		132
		fractures - sample 78.8. Sparse native copper dissemination present well away from fractures (veins too).									
@ 82.7		20°CA Sericite fracture - no mineralization									
@ 87°	89.9	Sericite fractured and weakly altered.									
@ 89.6		Small fault with gouge 60°CA					627635	90	93		144
@ 89.9		Small fault Hematite slip 30°CA					627636	93	96		363
@ 91	98.1	Stockwork of weak Kspar pink bleached fractures is about 10/m. cut by					627637	96	98		432
		later dark sericite quartz veinlets. Both contain minor native copper									
		and trace Chalcocite. Pink fractures generally >60°CA, dark sericite veinlets mostly				*					
		10 to 40°CA with some at 45 to 50°CA.									
@ 95.1		Sheared pink Zeolite - Calcite veinlet 26°CA.									
@ 98.1	101.7	PINK QUARTZ APLITE									
		Contact 5°CA cut by numerous green sericite fractures 30°CA, 1% magnetite disseminations					627638	98.5	99.5		10

AUCUMO Resources Ltd.

DIAMOND DRILL LOG

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INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A	B	C	D	FRACTURE INTENSITY	MINERALIZATION CP	BN	PY	MAG	Cc	Cu	ASSAYS SAMPLE	FROM	TO	Cu
101.7	245.0	CHATAWAY GRANODIORITE															
		as above 98.1 with weak Kspar pinking (bleaching) stockwork decreasing. Occasional native copper															
@104	106	Later green sericite Qtz veinlets with 1cm sericite envelopes about 4/m - unmineralized															
		and generally 40 to 50°CA															
@108	109.5	Frequency of Qtz-Sericite (green) with 1cm envelope increases to about 5 to 8/m 40 to 50°CA												627639	108	110	137
		Some veinlets have native copper in alteration envelope. Small shear 35°CA at 109.3															
@113.0	114.0	another short interval similar to 108 to 109.5 with 9 Qtz-Sericite 35 to 45°CA															
@115.7		½ cm pink K-spar vein with no wallrock alteration 45°CA contains specks of															
		Bornite rimed by Chalcocite - adjacent native copper. - All are late hypogene. Sample							*			*	*				
@117.5		short section ½m of bleached fractures w/ envelope native copper											*	627640	117	120	176
@118.7		Chalcocite 1mm veinlet 46°CA no alteration, but nearby bleached fractures										*	*				
		show weak pinking and minor native copper - they are 2 to 3/m.															
@123.4		24°CA 2cm Qtz-Calcite Zeolite Vein															
@124.1		1mm Chalcocite veinlet 46°CA. with Bornite							*			*					
@125.9		intrusive grades to lighter colour															
@126.9		Qtz-Kspar pegmatite vein 8cm - 55°CA															
@129.8		Gry 1 to 2mm Qtz drusy stockwork veins with native copper - Sample.											*	627641	129.8	130.3	203
@130.5		Several dark green sericite envelope fractures 50 to 55°CA.															
@131.1		Small fault 50°CA - adjacent Sericite alteration 10cm wide. Native copper and red ochre in															
		sericite fracture in edge of fault. - supergene. Sample.											*				
@131.8		Small fault with sericite slips and red ochre 30 and 35°CA minor Chalcocite on sericite vein										*					
@135.5		5°CA Sericite vein with 2cm pink Kspar envelope															
@136.0	142.1	Uniform granodiorite medium grained, massive 3 to 5 fractures/m with several															
		1 to 2mm low angle sericite fractures 15 to 25°CA some with minor native copper											*				

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DIAMOND DRILL LOG

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INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A B C D	FRACTURE INTENSITY	MINERALIZATION CP BN PY MAG Cc Cu	ASSAYS SAMPLE	FROM	TO	Cu
@142.1	147.0	Fault Zones Clay Gouge and breccia, 35-50°CA. In tense sericite with minor Malachite, clay			*	627692	142	145	502
		and several native copper in fracture surface. Several fault zones with highly altered short				627693	145	148	85
		sections of intrusive up to ½m wide. Alteration is intense pervasive sericite, clay and				627788	148°	151°	196
		silicification. Blocky core with recognizable zeolite veinlets and pink fractures.							
		Massive granodiorite below fault, cut by 4 to 5 pink envelope fractures 1m down to 151°						no gap	
@151.0		Massive unaltered granodiorite down to 152.5				627789	151°	152.5	91
@152.0	154.1	Two Bornite-Chalcocite veins with specularite 32 to 40°CA. Increased frequency			* *	627694	152.5	154.0	743
		of pink K-spar envelopes ½ to 3cm 35 to 75°CA. Pink zeolite on some fractures				627790	154.5	157.5	56
@153.2		Small fault 40°CA Sericite alteration 10cm wide				627791	157.5	160.5	167
@157.7		42°CA pink envelope Qtz-sericite veni 2cm envelope with Chalcocite and native copper			* *				
@162.9		42°CA pink zeolite-calcite vein 1cm with 3cm pink K-spar envelope							
@164.3		Fault margin breccia? with chalcocite mineralized vein clasts.							
@164.4	164.4	Weak sheared fault? zone - intense sericite altered granodiorite - some possible chalcocite			*				
@166.0	177.2	Variably intense dark green sericite pervasive altered granodiorite with some local pink K-spar				627695	166	169	99
		alteration and silicification? Blocky core. Late sericite fractures cut pervasive sericite alteration 25 to 30°CA No visible mineralization.							
@170.5	171.5	Fault Zone breccia and gouge 10°CA adjacent crumbly soft granodiorite							
@171.5	172.5	Less intense sericite alteration and patchy pink K-spar pervasive alteration - harder rock.							
@173.4		Small fault zone 20cm crumbly and crushed granodiorite.							
@174.5	177.2	Fault Zone Clay gouge 50°CA, breccia, crumbly core 25°CA @ bottom							
@177.2	185.9	Below fault zone granodiorite is fracture controlled sericite altered with dark green sericite							
		envelopes 2 to 10cm wide 40 to 50°CA. Not visibly mineralized							
@183.9	184.8	Strongly sheared fault zone with 45 to 50° foliation of red earthy hematite							
@189	190.5	} Same as 177.2 to 185.9 Between these intervals granodiorite appears slightly finer grained							
@191.7	192.5	} and more leucocratic with about 12 to 14% mafics 2 to 3mm							

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DIAMOND DRILL LOG

Native Copper has an affinity for magnetite + mafic mineral sites in both hypogene and to lesser degree – the supergene occurrence.

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INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A B C D	FRACTURE INTENSITY	MINERALIZATION CP BN PY MAG Cc Cu	ASSAYS SAMPLE	FROM	TO	Cu
@193.5	194.2	Fault Zone breccia and clay gouge – broken core							
@194.2	195.1	Unaltered granodiorite							
@195.1	195.5	Fault Zone							
@195.5	201.4	Patchy sericite altered granodiorite, some native copper (secondary) on fractures here and there			*	627646	195°	198°	118
		@196.9, 198.8 and elsewhere. Sericite patches 30° to 40° CA. Specular hematite and red earthy				627647	198°	201°	265
		hematite are abundant on slips. Local pinking 200 to 201. or Zeolite – calcite veinlets				627792	201.°	204°	377
@201.4	201.6	Pink, fractured quartz aplite dyke.				627793	204.°	206°	122
@201.6	202.2	Small fault 30° CA and 05° CA with calcite veining							
@202.6	204.3	Pink Zeolite stockwork with pink Kspar envelope alteration ½ to 1 cm wide.							
@204.3	206	Patchy sericite alteration as 195.5 to 201.4.				627648	206	209	424
@206	215	Variably Kspar altered with sericite on fractures. Native copper on fractures and some fractures 25–35° CA			*	627649	209	212	48
		Pink fractured Qtz aplite dyke 205.8 to 206.			*	627650	212	215	60
		Irregular slivers of sericite and along 30° CA veinlets. Mafics weakly chloritized and a few							
		wide 10 to 20 cm dark green sericite altered patches							
		Becomes slightly foliated 213 to 215							
@215.2	217.6	Variably Kspar pervasive and epidote altered							
@216.7		1mm chalcocite native copper veinlet 40° CA.			*				
@217.6	218.5	Fault Zone. – affected wallrock as high as 217 with small fault zones and shears. Brecciated							
		with epidote rich clasts, clay sericite and red earthy hematite slips 10 to 40° CA – unmineralized							
218.5	225.0	Granodiorite is coarse with muggy clear zeolite cavities, sericite fractures about 4 to 5/m 25 to 40° CA.							
		Native copper is present along some fractures and as disseminations away from fractures.			*	627651	220	223	174
		Weak stockwork pink envelope to fractures and zeolite veins is present.							
225°	237°	Massive granodiorite with weak pink stockwork on 2 to 4 fractures or veins per m.							
@227.5		40° CA 1 to 2 mm Chalcocite – bornite veinlet with ½ cm pink envelope. – Sample taken.			*				

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DIAMOND DRILL LOG

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INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A	B	C	D	FRACTURE INTENSITY	MINERALIZATION CP	BN	PY	MAG	Cu	ASSAYS SAMPLE	FROM	TO	Cu
@ 230		Small fault 50°CA 5cm wide														
@ 233.5		55°CA 5cm sericite envelope														
@ 235.1		Small fault zone - incipient fracturing and clear zeolite veinlets, with drusy cavities start at 233 and continue on both sides of the fault. No mineralization														
@ 237.5	238.6	Fine grained granodiorite dyke - abrupt upper contact 40°CA, lower contact brecciated and gradational														
@ 243.8		Sheared vein 50°CA - calcite cored sericite envelope - blocky core down to 245														
@ 245	247	Grain size variation in granodiorite is gradational to finer grained phase														
245	365	CHATAWAY GRANODIORITE - FINER GRAINED PHASE.														
		Overall medium grained about 20% faintly (local) foliated 2 to 3 mm dominantly Hornblende mafics. Occasional texture														
		variation to coarser variety at 248.7 but only over 20 to 30 cm. A few sericite (green) alteration envelopes on														
		fractures 35 to 45°CA and several pink envelope fractures parallel to CA.														
@250.4	250.8	Fault Zone - breccia with clay and sericite - slips 45°CA														
@251	261.9	As 245 to 250.4 with sericite fractures 40 to 55°CA. Weak pink Kspar envelope 1 to 3/m unmineralized														
@254.9		Small fault with local green sericite development - very minor native copper										*	627652	253	256	200
@256.0		Small fault 46°CA														
@261.4		Intense sericite altered granodiorite near fault zone														
@262.2	263.5	Fault Zone - blocky core. Intense, pervasive sericite alteration above fault and below to 264.4											627653	261.5	264.5	90
@263.5		Granodiorite shows increase in fine grained biotite and weak pink fracture envelope alteration stockwork 4 to 5/m.														
		Becomes fine grained phase with no apparent contact.														
@267.3		Fault Zone 55°CA. 20cm - breccia and gouge. Sericite envelopes 30 cm above fault.														
@268.8		Small fault zone. 55°CA. 10cm Hematite - Clay - Sericite slips. Rock between these two faults is sericite fractured														
		and crushed with moderately intense pervasive sericite alteration and chloritized mafics. Several short coarser granodiorite Chataway intervals.														

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DIAMOND DRILL LOG

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INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A	B	C	D	FRACTURE INTENSITY	MINERALIZATION CP	BN	PY	MAG	C	ASSAYS SAMPLE	FROM	TO	Cu
		Below the faults granodiorite is fine grained with 3 to 4%. 4 to 5 mm black hornblende xals														
		and sericite envelopes 50 to 55° CA. about 1 cm width, 4 to 5/1m. Still Chatsworth variety.														
@ 272.2		Small fault zone 10 to 20 cm brecciated and adjacent wallrock sericite alteration. Blocky Core														
		Minor chalcocite broken veinlet at 272.5									X					
274.1	274.4	Pink granite dyke - local aplite. 65 and 45° CA.														
@ 274.7		47° CA Small fault														
		Main unit cut by 5 to 10/m, 40 to 50° CA sericite fractures														
@ 275.9		1 mm 45° CA Bornite mineralized fracture no visible alteration							X							
@ 276.4		30° CA 20 cm small fault - red hematite slips 30 to 35° CA.														
@ 276.9		55° 1 mm Bornite mineralized fracture no alteration association							X							
@ 277.6		30° CA, 1 mm Bornite mineralized fracture - terminated by green sericite envelope - no alteration association							X							
@ 278.9		Small fault, 10 cm, 30° CA Hematite - clay - sericite slips. Blocky core.											627794	280.5	283.5	150
@ 282.6	283.2	Intrusive breccia ½ to 4 cm subrounded clasts - ground up matrix.											627795	283.5	285.5	215
@ 285.5	289.9	Kapar pinking 60 to 70%. - several green sericite veins 2 to 3 mm 35 and 60° CA.											627654	285.5	287.5	1139 Ag 0.8
@ 286.3		Short interval of abundant specularite in intense K-spar pervasive altered zone with							+				627655	287.5	289.5	227
		Bornite specks Also less of bornite amounts at 287.0							X							
@ 287.5		30 cm fault zone 50° CA clay - red hematite gouge. Blocky core below and moderate														
		clay alteration to 289.6.														
		Granodiorite above altered zone 285.5 to 289.0 has fine grained pepper-like texture of mafics with subhedral biotite?														
		This grades into coarser phase at 289.0. Chatsworth granodiorite														
@ 293.7	294	Fault zone with red hematite slips 40° CA also 293.3 to 294.5 crushed core and 294.7 65° CA - 10 cm														
@ 295.4	296.5	Fault zone Breccia and clay - red hematite gouge Blocky core. 35° and 70° CA. Sericite and silicification locally.														
		Below fault, massive granodiorite with local Kapar pink envelopes on zeolite - calcite veins and fractures. Envelopes are 1 to 2 cm wide														
@ 300		30° CA small shear														

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DIAMOND DRILL LOG

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INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A B C D	FRACTURE INTENSITY	MINERALIZATION CP BN PY MAG	ASSAYS SAMPLE FROM TO Cu
@307.2		Fault Zone 50 to 60° CA red Hematite slips and clay. - adjacent pervasive sericite alteration				
@307.5	313.6	Below fault is massive granodiorite with patchy intervals of pink Kspar envelope alteration on pink Zeolite veins				
		That are subparallel to the core axis. Sparse green sericite gtz veinlets with Kspar envelopes.				
@315.2		Small 5cm fault 45°CA. red hematite slip.				
@320.2	320.5	Fault breccia with gouge matrix 20°CA.				
@323.2		10cm fault with clay gouge and red hematite slips 45°CA.				
@319	335	Granodiorite is generally massive 3 to 4 fractures/m., dark green 5 cm sericite envelopes 50°CA. about 1 per 2 m.				
		pink Kspar envelopes ½ to 2 cm on zeolite 35°CA. 1mm clay 35 to 55°CA. sericite 35 to 55° Together they are 3 to 5/m. Occasional				
@334.1	334.2	Red earthy hematite slips 20 to 30°CA.				epidote 1mm veinlets
@335	336.6	40% pink Kspar pinking due to 10 to 12° fractures with pink envelopes.				
@339.3	339.5	Fault zone Clay-sericite and breccia - Broken and highly fractured core 337 to 342				
@338.5	346.4	Pervasive pink Kspar altered granodiorite - some sericite and epidote fracturing 6 to 8/m. - Mafics chloritized.				627656 339.5 342.5 148
		No visible mineralization				627657 342.5 345.5 123
@346	358.	Sparse pink envelope Kspar alteration 1 to 2 cm and Sericite envelopes 1 to 3 cm 1 to 4/m 50 to 55°CA.				
		in another less massive granodiorite that becomes coarser at about 346. Specks of chalcopyrite with mafic at 356 *				
@352.9	353'	fault with breccia and gouge 60°CA.				
@358°	362°	Dominant wash of pink Kspar alteration - mostly associated with pink Zeolite - white				
		calcite veinlets with low CA. Example at 360. of Ksp - Sericite alteration succession				
@362	373	as 346 to 358 with pink envelopes but with higher frequency of pink Kspar envelopes 4 to 6/m. also low CA Zeolite Vein pinkings between 3 and 367.				
365	402.7	CHATAWAY QUARTZ MONZONITE - PINK PHASE?			lower total mafic content 10 to 12% Hornblende dominant with variable biotite content.	
@365		Granodiorite shows a gradual transition to distinctly more pink (Kspar) mottled phase between 365.5 and 366.5 - Bethlehem? Dike??				
@370	374	Numerous pale yellow to clear fractures, dressy veins and cavities lined with zeolite				
@377	384	As 362 to 373 alteration sequence on pink zeolite veins is inner sericite, outer pink K-spar				
@381.7	381.9	Small fault zone with gumbo Clay and sericite				

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INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	ALTERATION D	FRACTURE INTENSITY	MINERALIZATION CP	MINERALIZATION BN	MINERALIZATION PY	MINERALIZATION MAG	MINERALIZATION Cc	ASSAYS SAMPLE	ASSAYS FROM	ASSAYS TO	ASSAYS Cu
@385.5		60°CA 1-2mm discontinuous Chalcocite Bornite Vein with 5mm pink Kspar envelope							*			*				
@388.5		60°CA same as 385.5 with 1cm pink Kspar envelope							*			*				
@391.5		35°CA same as 385.5 with 1cm pink envelope							*			*				
@393		Several 25°CA bright green sericite veins with associated Kspar pinking														
@389	390	Granodiorite displays some textural and compositional variation to less Kspar and														
		back again into the pinker phase.														
@398.5		Small 1mm chalcocite veinlet (-discontinuous chalcocite) with 5mm pink Kspar envelope 55°CA. *														
@399.0		Same at 60°CA. 402.7 – 404.2 CHATAWAY GRANODIORITE FINER GRAINED PHASE														
@402.7		Granodiorite changes from pink Kspar rich variety (20 to 25% 2 to 4mm Kspar)														
		back to white phase.. Speck of bornite at transition 402.7														
404.2		End of Hole														

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DIAMOND DRILL SUMMARY

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Hole No. 93CVS-6
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Property CVS
Claim CVS-7
Section TEST WEST FLANK OF ROSCOE ANOMALY IN VICINITY OF ART'S SHOWING.

Date Started SEPT. 29, 1993 N
Date Finished OCT. 3, 1993 N.
Logged By S. ENNS
Contractor ATLAS DRILLING, KAMLOOPS
Core Stored At CHATAWAY LAKE LODGE CAMPSITE

CORE SIZE		
FROM	TO	SIZE
6.7	412.4	NQ

TOTAL DEPTH 412.4
CORE RECOVERY +99%

COLLAR SURVEY	
NORTHING	5483N
EASTING	3242E
ELEVATION	1487.4m
BEARING	045Az
DIP	-55
REFERENCE	

DOWN HOLE SURVEY		
FOOTAGE	DIP	AZIMUTH
71.6m	-54½°	042°
221.3m	-54°	045½°

SUMMARY LOG			ASSAYS				
FROM	TO		FROM	TO	ppm Cu	ppm Ag	ppm Mo
0	6.7	OVERBURDEN	60	63	235		
6.7	13.7	ROSCOE GRANODIORITE with several occurrences of bornite accompanied with chrysocolla and malachite	63	66	1981	1.2	
Faulted near lower contact			66	68	9262	6.4	
13.7	190.2	CHATAWAY GRANODIORITE grades into Roscoe phase and back again 20.0 to 25.0. Kspar	136.6	137.6	3110	1.2	
pinking on pink zeolite vein stockwork 27.0-38.0 and again 55.0-67.0 accompanied by saussentization and weak sericite			137.6	140.6	978		
alteration on fractures. Chalcocite-bornite veins and fractures at 63.0-67.0 66 to 75°CA. A few minor bornite occurrences			156.9	160.9	1035		
between 104-106. Clay altered interval 105.8 to 111.6. Art's showing zone possibly intersected @ 151-158.6 where bornite veins			at 160.9	163.9	347		
80° and bornite and chalcocite fractures and patchy margins to sericite-epidote veinlets occur at 64 & 76°CA. Grey granodiorite dyke 188.4			198.0	201.0	1230		
to 190.2 marks boundary to lower phase (mainly Roscoe) and includes 2 chalcocite, 1mm veinlets 55 to 85°CA			201.0	204	1007		
190.2	294.2	ROSCOE GRANODIORITE with mineralized 1-5mm fractures 60-85°CA with little or no apparent associated	227.3	230.8	602		
hydrothermal alteration between 190.5 and 201.5. Two intervals of moderate intensity sericite and Kspar alteration respectively occur at 203-			230.8	233.8	700		99
and 215-221, with little mineralization. Several bornite-chalcocite veins, 2-4mm thick, 55-80°CA occur between 227 and 237. Fault occurs at			254°	257°	484		
254.7-255.7. An interval of intense pink Kspar alteration accompanied by chloritized mafics and sericite fractures occurs at			305	308	1918		141
249.5-266. This is accompanied by bornite as sparse disseminations in Kspar altered rock or with epidote-quartz veinlets. The			308	311	276		
best density of mineralized veins occurs as 1-4mm bornite and chalcocite fractures, 60-65°CA, with weak bleached alteration			312.3	315.3	265		
envelopes between 266° and 268° and again between 278° and 280° where 5 chalcocite fractures are 55-57°CA.			315.3	318.3	392		
Below this scattered chalcocite and bornite fractures display 47-65°CA.			341	344	276		
294.2	309°	ROSCOE GRANODIORITE - GRANODIORITE DYKE HYBRID - is mixture of two phases with	356	359	280		
two intervals of intense Kspar pinking between 302 and 309, that includes two high grade chalcopyrite-bornite and			359	361	322		
chalcocite-bornite mineralized quartz-epidote veins at 55°CA, 3 to 5cm in width.			376.7	378.7	1277		
309°	338.2	ROSCOE GRANODIORITE with several chalcocite and bornite fractures and margins to quartz-					
epidote, 50-70°CA, veins at 314.3-318 and again at 329.7-332° with 55-85°CA. Between 334 and 335 an altered							
interval of Kspar and weak quartz-sericite fractures overlaps this and the lower geologic intervals that include altered							
granodiorite dykes and Roscoe granodiorite with sparse mineralization.		CONTINUED ON SHEET 1.1					

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DIAMOND DRILL SUMMARY -CONT'D-

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SUMMARY LOG			ASSAYS					
FROM	TO	CONTINUED FROM PAGE 1.	FROM	TO	Cu			
338.2	349.4	SEVERAL INTERVALS OF ALTERED GRANODIORITE DYKE, ALTERED ROSCOE GRANODIORITE						
AND UNALTERED GRANODIORITE.								
349.4	366.1	ROSCOE GRANODIORITE with moderately intense Kspar alteration in lower part. A few						
chalcocite	fractures and	quartz epidote vein margins display 78-85° CA.						
366.1	375.0	FINE GRAINED GRANODIORITE DYKE also altered by intense Kspar with minor						
chalcocite	mineralization.	Fault at 373.8 - 374.7 60-65°CA near lower contact						
375.0	412.4	CHATAWAY GRANODIORITE with several specularite occurences and at least one						
chalcocite-bornite		occurance at 396 with 75°CA.						

Property
Claim
Section

Date Started
Date Finished
Logged By
Contractor
Core Stored At

CORE SIZE		
FROM	TO	SIZE

TOTAL DEPTH
CORE RECOVERY

COLLAR SURVEY
NORTHING
EASTING
ELEVATION
BEARING
DIP
REFERENCE

DOWN HOLE SURVEY			
FOOTAGE	DIP	AZIMUTH	

14.3

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DIAMOND DRILL LOG

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INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	ALTERATION D	FRACTURE INTENSITY	MINERALIZATION CP	MINERALIZATION BN	MINERALIZATION PY	MINERALIZATION MAG	MINERALIZATION Cc	ASSAYS SAMPLE	ASSAYS FROM	ASSAYS TO	ASSAYS Cu
0	6.7	CASING														
6.7	13.7	ROSCOE GRANODIORITE														
		Course euhedral Hornblende 12 to 14%, 2 to 6 mm. Blocky core: 6.7 to 14.3														
		Pink Kapor envelopes on Zeolite veins and fractures.														
@7.9		Bornite chip with chrysocolla and malachite on chip of rock.								X						
@13.7		Chalcocite speck with malachite										X				
@11.0	12.8	Fault Zone Lost Core 1.5 m.														
		Some gradation occurs from Roscoe phase to standard Chatuway phase at 10 to 11 then back to Roscoe phase. @														
13.7	20	CHATAWAY GRANODIORITE														
@		Medium grained granodiorite with variable size hornblende crystals (not bimodal like Bethlehem phase) but overall														
		uniform mafic distribution 15 to 16% 2 to 5 mm hornblende dominant.														
@14.3		Brecciated section with gray ground mass. ~40 cm wide.														
@17.3	17.5	Pink Qtz aplite dyke														
		4 to 6 pink envelopes per m. fractures and zeolite veinlets 50 to 60°CA														
@16.5		Small 5 cm fault 65°CA gouge.														
20.0		Grades into Roscoe phase														
20	25	ROSCOE GRANODIORITE														
21.		Frequency of pink Zeolite white calcite veins increases to 6 to 8/m some with minor sericite to Kapor envelopes. 60 to 70°CA														
25		Fault zone with crenulated fractures on outer margins Gouge. 50°CA.														
25.7	25.9	Pink quartz aplite dyke.														

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DIAMOND DRILL LOG

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INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A B C D	FRACTURE INTENSITY	MINERALIZATION CP BN PY MAG Cc	ASSAYS SAMPLE	FROM	TO	Cu
25.0	188.4	CHATAWAY GRANODIORITE ? (with possible 25 to 137 BETHLEHEM PHASE ??)							
25.7	25.9	Pink quartz aplite very fractured. 1 to 2% disseminated magnetite							
27.6	28.7	Pink aplite as 25.7 to 25.9.							
@ 29.5		Fault Zone Lost Core - ground rubble. ~0.5 m.							
		Kspar pinking on pink zeolite veins 4 to 5 /m. down to 27.0							
27.	38.	Kspar pinking on pink Zeolite - white calcite stockwork	6 to 10 /m. 45 to 60° CA						
		Minor weak malachite on some fractures				627658	30	33	150
37.7	38.1	Fault Zone Gouge 45° CA healed with Zeolite - Calcite	stockwork.			627659	33	36	183
@ 40.	and 40.3	Two sheared Calcite Zeolite veins (cpy) with sericite	50° CA						
		Granodiorite becomes finer grained, weakly foliated with uniform mafics	but here and there is a suggestion of Bimodal Hornblende size distribution below 35 ft - could this be a phase of Bethlehem dyke? - bimodal mafics with Biotite subequal to Hornblende						
@ 42	47	Pink Zeolite veins with wider K-spar envelopes 2 to 5 cm some with epidote and calcite.			45°-50° CA				
@ 47.2	47.8	Lost Core - 0.6 m very blocky							
@ 47.5?	47.9	Fault Zone - rubble and gouge							
47.9	49.1	Malachite - chrysocolla stained silicified and intense sericite altered interval							
		minor residual chalcocite with blebs of bornite - fracturing 70° CA			* *				
49.1	55.0	Below mineralization is unaltered Chataway granodiorite with thin pink Kspar							
		envelope fractures (2 to 3 /m.) of pink zeolite.							
55.0	67	Intense pink zeolite-calcite stockwork with pink envelopes and pervasive sericitization							
		and sericite alteration (weak to moderate) interval. Increased sericite content at 60. m.							
@61.9		Thin Malachite veinlet cut by calcite Malachite 80° CA.							
@61.7	64.4	Intense dark pervasive sericite alteration with several mineralized veins. Sericite is coarse. Broken Core.							
@63.0		2cm sericite Qtz Bornite vein 75° CA with Malachite			*				
@63.4		Pink 20cm granite dyke 45° CA.							
@ 69		Broken Qtz - coarse sericite interval 20cm.							

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INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A B C D	FRACTURE INTENSITY	MINERALIZATION CP BN PY MAG Cc	ASSAYS SAMPLE	FROM	TO	Cu
@65.2		Small 10cm fault. Adjacent rock above 40cm fractured				627660	60	63	235
@66.0		10cm zone of Qtz-Sericite Bornite fractures/veins 72°CA			×	627661	63	66	1981 1.2
@67.0		66°CA High grade Chalcocite-Bornite-Malachite vein with pink zeolite - calcite			× ×	627662	66	68	9262 6.4
		mineralization is about 1cm wide.				627769	68	71	96
@67	80	Below mineralization granodiorite is unaltered, cut only by sparse stockwork of zeolite				627770	71	74	88
		with 2 to 3/m. Intrusive grades into short 5 to 20cm intervals of Roscoe granodiorite at 75 to 77				627771	74	77	79
		Unit is massive 5&6 fractures/m							
@79.0		45°CA Small fault 5cm red hematite slip.							
@81.6	82	Incipient breccia to highly fractured (healed by clear zeolite) zone							
@80	92	Granodiorite unit is consistently a fine to medium grained, uniformly distributed mafics 15 to 17% cut by weak zeolite stockwork 2 to 4/m occasional							
@84.7	85.1	pink granite dyke.	here and there note suggestion of					green sericite veinlet.	
@89	91	Several pink zeolite 1cm veins 55°CA.	bimodal mafic size (Bethlehem??).						
@90		Small 5cm fault clay gouge and crushed core							
@93	94.7	Intrusion breccia zone 2mm to 20cm clasts subrounded some material - weak shearing CA parallel.							
@92		Intrusive gradually coarsening, still massive, uniform with weak stockwork of pink zeolite. Occasional green sericite qtz veinlets 65							
@98.9	99.1	Small fault with sericite veinlets and green sericite veinlets - sandy.			to 70°CA. 97 to 99 m.				
		Gradual increase in pink zeolite veinlets below 100 m. to 3 to 4/m 1 + 2 mm with white calcite cores.				60 to 70°CA.			
101.3		Small fault - sandy core and gouge							
102.6		1cm Zeolite-Quartz vein 35°CA cuts green sericite veinlet - numerous (6) pink zeolite white calcite flow veinlets in this vicinity							
@104.3		Brecciated Qtz-aplite pink dyke 2cm with malachite stained Bornite blebs. - minor.			*				
@104.5		Faulted Zeolite vein - gouge 3cm 75°CA.							
@104.7	105.8	Pink Qtz aplite granite dyke - highly fractured with sericite on fractures			×				
		Several spots of Bornite → malachite							
105.8	111.6	Soft core from clay alteration due to pink zeolite stockwork down to about 111.6				627663	106	109	109

Pink zeolite cored by white calcite. Some veins accompanied by epidote. Interval looks sheared.

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DIAMOND DRILL LOG

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INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A	B	C	D	FRACTURE INTENSITY	MINERALIZATION CP	BN	PY	MAG	Cc	ASSAYS SAMPLE	FROM	TO	Cu
@113.2		Slow 60°CA 2cm wide														
@115	117	Blocky core with pink envelopes on Qtz sericite veins 55 to 65°CA														
		Lost Core 0.5m between 115.8 to 116.7 - ground														
@118.3		Small shear 55°CA with 0.3 interval above of 1cm pink zeolite veins 40°CA.														
@118.6	119.3	Fault Zone brecciated, healed with Calcite-red hem. slips - 30 to 45° CA Blocky core below.														
@120.5	120.7	Small fault zone 55°CA gouge - clay red hematite.														
@120.7	122.9	Zeolite veined ~6/m. 30 to 40°CA ½cm wide with calcite cores, variable degree of pink Kspar envelops (central sericite envelope)														
@122.4	122.6	Intense altered Qtz coarse sericite interval - no visible mineralization.														
		Core becomes more massive with sparse pink zeolite veins														
@124.7		Small fault 45°CA gouge of clay slips														
		Granodiorite is typical chutaway cut by 1 to 2 pink zeolite veins/m. Larger veins produce 1 to 3 cm pink Kspar envelopes. 25°CA. - cut one sericite														
@128.7		Small fault											627772	130.6	133.6	81
@129.9	129.2	Incipient breccia zone. - intrusion breccia											627773	133.6	136.6	142
@136.6	137.7	Intense coarse and fine grained sericite-Qtz alteration approaching the fault below contact. - No visible mineralization.											627664	136.6	137.6	3110 Ag 1.2
													627774	137.6	140.6	978
137	188.4	ROSCOE GRANODIORITE.											627775	140.6	143.6	94
@137.7		Fault Zone with 15cm Chlorite - clay - red hematite gouge 55°CA														
		Coarse grained Hornblende dominant granodiorite with large poikilitic Kspar - cut by sparse pink zeolite veins and several epidote ve														
@141.4	141.8	Local gradual transition to granodiorite phase above - no contacts.														
@146.6		CAVE														
		A few minor faults. 3cm 46°CA at 144.3; 2cm 36°CA at 147.2														
@150.7	150.9	Blocky Core small fault 28°CA														
@151.0		2 to 3 mm Chalcocite - Bornite vein 80°CA. - accompanied by minor qtz. Little evident wallrock alteration.														
		Surrounding wall rock variably pink Kspar altered by pink zeolite veinlets and Qtz. Sericite fractures - overall weak														

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INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	ALTERATION D	FRACTURE INTENSITY	MINERALIZATION CP	MINERALIZATION BN	MINERALIZATION PY	MINERALIZATION MAG	MINERALIZATION Cc	MINERALIZATION Cu	ASSAYS SAMPLE	ASSAYS FROM	ASSAYS TO	ASSAYS Cu
@152.7		CA parallel sericite fracture with minute blebs of chalcocite	<1mm											627665	150.9	153.9	93
@153.7		52°CA, 1 to 4mm Chalcocite-Bornite veinlet similar to 151.0 Qtz accompanies							*			*		627666	153.9	156.9	169
		sulphides which occur very irregularly along the poorly defined vein. (Photo).												627667	156.9	159.9	911
@154.6	155.5	Sericite Qtz and Epidote filled fractures 4 to 5/m.												627776	159.9	160.9	1035
@157.9		Minor Chalcocite on margin to sericite epidote zeolite fracture	63°CA									*		627668	160.9	163.9	347
@158.6		Three 1mm chalcocite-bornite filled fractures 64 to 76°CA - over 10cm.							*			*					
@159.0		Small fault with clay sericite gouge 55°CA hematite slips															
@160.8	161'	10cm clay-sericite fault zone Sericite pervasive alteration is intense both sides															
		of fault ~ 20cm															
@161.1	161.9	Coarse sericite development in 56°CA fractures and 5 to 10cm wallrock - no visible min															
		small fault at 161.6															
@163'		1mm 86°CA partially chalcocite filled fracture										*					
@164.4		Faulted fracture with gouge of clay-sericite and sericite wallrock alteration 5cm											*				
		63°CA - trace native copper in wallrock															
@150	165'	Weak clay zeolite filled veinlets as weak stockwork															
@165.6		Faulted fractures of sericite 40°CA.															
@165.7		20cm Qtz-Sericite interval 56°CA with 2 epidote veins 56°CA.															
@166.9	167.9	weak Kspar pink alteration on pink zeolite, sericite and some epidote filled fractures.															
@167.9		10cm small fault - sandy 47°CA.															
@172.7		Small fault - gravel and clay sericite - trace chalcocite and specks native copper										*	*				
@175.5	175.8	Short interval of grey granodiorite dyke. - injection at 176.0															
@178.6	180.7	Some grey granodiorite dyke with Roscoe granodiorite inclusion? 179.6 (30cm). ← POSSIBLE BETHLEHEM PHASE ? ←															
		dyke has 10% black Hornblende needles and is also cut by sericite fractures and pink Ksp envelope															
		Trace chalcocite at 180.1										*		627669	179	181	123
@179.8		Small fault 55°CA - clay sericite minor epidote and trace chalcocite										*					

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INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A	B	C	D	FRACTURE INTENSITY	MINERALIZATION CP	BN	PY	MAG	Cc	ASSAYS SAMPLE	FROM	TO	Cu
		Roscoe continues & shows weak spotty alteration of K spar pinking on sericite-Qtz fracture 50°CA														
@186.7		10cm crush zone - fault with red Hematite slips 40° CA														
		Chalcocite occurrences as small blebs on poorly defined veinlets as											627670	183	186	63
		follows: 186.5 margin to epidote-sericite veinlet 40°CA										x	627671	186	189	143
		186.6 81°CA 1mm fracture										x	627672	189	192	196
		187.4 bleb on margin to green Qtz-sericite with pink envelope 75°CA										x	627673	192	195	276
													627674	195	198	69
188.4	190.2	GREY GRANODIORITE DYKE											627675	188	201	1230
		Similar to 178.6 to 180.7 with 1mm black Hornblende needles.											676676	201	204	1007
		Cut by pink envelopes on fractures and mineralized by chalcocite:											676677	204	207	146
		188.6 65°CA 1mm poorly defined vein } no associated alteration evident.										x	627678	207	210	147
		188.8 55°CA 1mm veinlet										x	627679	210	213	168
													627680	213	216	100
190.2	294.2	ROSCOE GRANODIORITE											627681	216	219	76
		As 137.0 to 188.4; 50cm grey dyke at 190.7														
@190.5		72° CA poorly defined vein with chalcocite blebs										x				
@191.3	191.5	Fault Zone 40 to 45° CA with adjacent alteration - Zeolite veining with K spar pink envelopes down to 197.														
@197.		Small fault 55 to 70°CA Also at 196.7 10cm fault. 45°CA ; 198.0 45°CA														
		and 200.0 80°CA - 5cm grey clay-sericite and 203.4 5cm clay-sericite Hematite gouge.														
		Chalcocite-Bornite occurrences at: 193.9 1mm 85°CA - blebs							x			x				
		195.7 1mm blebs veinlet 82°CA							x			x		weak continuity of mineralized		
		Display no apparent associated 199.7 5mm Qtz Sericite vein margin 60°CA							x			x		fractures.		
		hydrothermal alteration. 200.4 2mm chalcocite veinlet 61°CA cut by green Qtz Sericite veinlet at 50°CA							x			x				
		201.5 Disseminated blebs hairline on fracture 60°CA (Photo)							x			x				

Green Qtz-Sericite veinlets at 1 to 2/m cut CA 45 to 50° - They appear to be late-post mineral! (Photo) Zeolite veinlets are present ~1/m. (per m)

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INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	ALTERATION D	FRACTURE INTENSITY	MINERALIZATION CP	MINERALIZATION BN	MINERALIZATION PY	MINERALIZATION MAG	MINERALIZATION Cc	ASSAYS SAMPLE	ASSAYS FROM	ASSAYS TO	ASSAYS Cu
		Granodiorite becomes intensely sericite and red Hematite altered below 203.5' Gouge at 30 to 45°CA and														
		local pinking (Kspar) is present. Actual clay sericite gouge zones at 203.5' 80°CA, 203.7, 203.8 35°CA														
		204.0 40°CA as narrow 1 to 2 cm zones.														
@209.0	209'	Small fault 85°CA. clay - Sericite and red hematite with Zeolite - calcite veinlet														
@206.	X	Degree of overall K-spar pinking and pervasive weak sericite declines below 206 as compared with above 180m.														
@208.2		55° CA 2 to 4mm Qtz - Sericite mineralized vein with Bornite and Chalcocite patches It							X		X					
		displays a weak pink Kspar halo														
		Small faults at 210.7 70°CA ; 210.9 50°CA. ; 212.2 70°CA. ; 212.4 65°CA most occur with sericite pink K-spar-epidote envelope														
		bands and represent slips. The interval 210 to 215 is moderately pink Kspar altered with internal sericite envelopes 2 to 3 cm wide														
@219.7		1 to 2 mm chalcocite - bornite veinlet with 1 cm pale Kspar envelope ← did Qtz - Sericite veinlet							X		X					
		follow mineralized fracture? or is alteration related to mineralization?														
@213.2		Sparse Bornite mineralization occurs as disseminations														
@214.3		5 to 6 cm pink zeolite calcite complex vein 67°CA.														
@219.3		10 cm fault 72°CA with clay sericite and several 1-2 mm pink zeolite calcite veinlets														
@215	221	Below 215 sparse green Qtz - sericite veinlets ~1/m. ; pink Kspar plus zeolite veining is local at 1 to 2 per m. Drusy clear zeolite filled vein														
		here and there 15 to 45°CA. Pinking by Kspar envelopes 5 to 10 cm wide occupy about 30% of rock														
@221	238	3 to 4/m green Qtz - Sericite veins with epidote - pink Kspar envelopes 50 to 70°CA, several pink zeolite veins 1 to 2 /m														
@224.7		5 cm pink Zeolite calcite vein 77°CA											627777	224.3	227.3	68
		Mineralization at 227.6 75°CA chalcocite on green sericite Qtz vein							X		X		627682	227.3	230.8	602 3 1/2 m
		227.9 55°CA 2 to 3 mm patchy chalcocite - bornite vein							X		X		627778	230.8	233.8	700
		1 cm pink Kspar envelope alteration 230.7 80°CA 2 to 4 patchy chalcocite - bornite vein							X		X		NA	233.8	235.0	— gap —
@232.3		Semi black graphite fault 60 to 75° CA. 15 cm sericite envelope. - blocky core below found											627683	235.0	238	116
@234.3		10 cm fault 40°CA.														
@237.4		3 cm white Qtz - Chalcocite vein 67°CA									X					

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INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A	B	C	D (pink alteration)	FRACTURE INTENSITY	MINERALIZATION CP	BN	PY	MAG	Cc	ASSAYS SAMPLE	FROM	TO	Cu
238°	249°	Local pink zeolite stockwork concentrations 238.1 to 238.7														
		239.3 to 241.9, 243.5 to 243.7, 247.1 to 247.4 as multiple veins systems that caused														
		dark green sericite alteration														
@ 248.1		Single disseminated specks of chalcopyrite adjacent to hornblende.														
@ 249.5	266.0	Intensive pervasive (~75%) pinking of granodiorite and chloritization of mafics. numerous sericite slips and fractures														
@ 252		Bornite - Qtz vein 56°CA 2cm Thick with 1% bornite				GRAPHIC 248		X					627684	248	251	28
@ 254.7	255.2	Fault Zone. 25°CA											627685	251	254	31
@ 260		43°CA Qtz Sericite Epidote vein with minor chalcocite					250				X		627686	254	257	484
260.5		Bornite @ disseminated with intense Kspar alteration						X					627687	257	260	78
260.6		5cm white Qtz - Sericite epidote vein - minor Bornite dissemination 55°CA					252	X					627688	260	263	178
264.9		5cm epidote vein 55°CA with sparse disseminated Bornite						X					627689	263	266	160
		Pervasive pinking alteration declines below 266m.					254						627690	266	269	214
266	266.5	Thin chalcocite - bornite fractures some on margin of Qtz - sericite veinlets											627691	269	272	42
		others as fractures with weak 5 to 10mm pink alteration envelope:					256									
		266.9 60°CA 2 veins 5cm apart.						X			X					
		267.4 60° 1mm					260	X			X					
		267.4 60° 2-4mm "juicy" vein ← Photo and split sample. all show evidence of weak						X			X					
		267.7 65° 1mm wallrock bleaching and					262	X			X					
		268.0 62 1mm margin of Qtz sericite pinking alteration						X			X					
		268.2 45°CA 2mm margin of Qtz sericite					264	X			X					
		Roscoe granodiorite is unaltered below the weak mineralization interval														
		except for 1 to 2 pink envelope fractures per m. It is massive 3 to 5 fract/m.					266						627692	278	281	164
278	280	5 Chalcocite - bornite mineralized fractures - two with faint pinking 55 to 74°CA						X			X		627693	281	284	228
		This interval similarly unaltered (except very locally) as described above.					268						627694	284	287	55

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INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A	B	C	D	FRACTURE DENSITY	MINERALIZATION CP	BN	PY	MAG	Cc	ASSAYS SAMPLE	FROM	TO	Cu
@ 280.3		Small fault - red hematitic slips 74°CA with 30cm of adjacent shearing														
		Blocky core below fault down to 288.5. Slight increase in Kspar pink envelope alteration suggesting higher density sericite fractures.														
@ 283.2		50°CA chalcocite on fracture margin.										*				
@ 284.4	-	65°CA 1mm Bornite fracture								*			627695	290	293	254
@ 286.3		20cm fault Clay-sericite red hematite gouge and breccia 55°CA														
@ 289.4		47°CA. minor chalcocite on pink envelope sericite fracture										*				
@ 291.4		Trace chalcocite										*				
@ 292.3		60°CA minor chalcocite on margin of pink zeolite - calcite vein with 2cm pink Kspar envelope										*				
@ 291.0	300	Patchy pink alteration (Kspar envelopes) increases in intensity and is accompanied														
		by epidote veining and minor epidote envelopes 1 to 2cm wide to veins. Epidote veins 25 to 55°CA Zeolite fracture 3 to 4/m.														
@ 294.2		* Abrupt transition to granodiorite phase that is a combination of grey granodiorite dyke														
		(above) and Roscoe granodiorite ie: green amphibole needles are mixed with coarse														
		black hornblende crystals - phase of Bethlehem? ?														
294.2	309	ROSCOE - GREY DYKE HYBRID PHASE.														
		as described above * phase is transitional to typical coarse Roscoe phase at 308 to 309.														
@ 300.5	300.8	Small fault 10 to 15°CA														
@ 301	301.3	Pink Qtz aplite dyke. 55 to 60°CA cut by Qtz - Epidote 3mm vein 60°CA with chalcocite										*				
		one 2mm chalcocite vein at lower contact 50°CA														
@ 302	303	Intense Kspar pinking														
@ 304.5		76°CA Chalcocite vein 1 to 3mm cuts pink alteration envelope. (photo).														
@ 306.8	309	Kspar pink altered interval ~ 65 to 70% as broad envelopes to several large veins - very intense between 301.6 to 308.0											627696	302	305	98
@ 307.4		2cm Qtz Epidote calcite vein with 1 to 1½ cm Thick chalcopyrite and disseminated bornite 55°CA * * (photo)											627697	305	308	1918
@ 307.8		3cm Qtz Epidote vein with slips and streaks of chalcocite mixed with molybdenite 55°CA (photo)										*	627698	308	311	276
@ 310.9		55°CA Qtz-Sericite vein with 3cm pink envelope and minor chalcocite										*				

309 338.2 ROSCOE GRANODIORITE as before

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DIAMOND DRILL LOG

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INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	ALTERATION D	FRACTURE INTENSITY	MINERALIZATION CP	MINERALIZATION BN	MINERALIZATION PY	MINERALIZATION MAG	MINERALIZATION Cc	ASSAYS SAMPLE	ASSAYS FROM	ASSAYS TO	ASSAYS Cu
@311.8		Strong clear zone														
@311.8	312.3	Intense pink Zeolite stockwork														
@312.3	335.0	Roscoe granodiorite shows weak alteration of pink Kspar envelope on sparse pink														
		zeolite and epidote veins about 2 to 3/m. Clear zeolite fuzzy veinlets cut core														
		at random 313 to 3116.5. Sericite fractures about 2 to 3/m.														
@314.3		1mm chalcocite veinlet 50°CA										x	627699	312.3	315.3	265
@314.8	315	Several 1mm chalcocite and sparse bornite lined fractures 50°CA							x			x	627700	315.3	318.3	392
@317.0	317.2	Intense Kspar altered interval from Qtz epidote vein system 70°CA with bornite disc							x							
@317.8		50°CA chalcocite-bornite fracture 1mm										x				
@318.5	319.0	Grey granodiorite dyke fine grained.														
@322		Roscoe granodiorite weakly Kspar altered by fracture + vein controlled envelopes 1 to 2/m most														
		less than 1cm wide.														
@324.4		1cm fault w/ clay sericite gouge 50°CA.											627701	326	329	62
@327.1		Small fault 1cm blocky core.											627702	329.0	332	374
		Several mineralized fractures:											627703	332	335	160
		@329.1 50°CA marginal chalcocite on 2 to 3mm Qtz epidote vein with 2cm Kspar envelope										x				
		@329.9 to 330.0 85°CA 1 to 3mm chalcocite and bornite on epidote Qtz veinlet and as fracture							x			x				
		pink envelope about 10cm or larger zone														
		@330.2 55°CA as chalcocite fracture - no alteration envelope											? local high grade veins			
		@332.0 disseminated bornite marginal to sericite Qtz veinlet							x							
@331	331.3	Pink Qtz feldspar dyke 60°CA.														
@336.8		20cm small fault 75°CA - red hematite slips with some epidote veining														
@335		Pink Kspar alteration intensity and content increases caused by greater frequency of epidote														
		zeolite veins. 55 to 60°CA. Results in mottled pink appearance. Also 4 to 5 green sericite - Qtz veinlets 65 to 80°CA.														

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INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A	B	C	D (pink Kspar)	FRACTURE INTENSITY	MINERALIZATION CP	BN	PY	MAG	Cc	ASSAYS SAMPLE	FROM	TO	Cu
@338.2	340.2	ALTERED GRANODIORITE DYKE														
		Chataway variety, weakly foliated mafics., cut by pink zeolite and green epidote veins														
		about 45% pink Kspar altered and cut by 1-2mm Qtz-Sericite veins and small shears					339	trace chalcocite				*	627704	338	341	175
													627705	341	344	276
340.2	342.2	ROSCOE GRANODIORITE					331						627706	344	348	49
		Similarly altered as unit above. with several small shears at 340.8, 341.6											627707	348	351	35
							338									
342.2	346'	ALTERED GRANODIORITE DYKE														
		similarly altered as 338.2 to 340.2. 35°CA sheared lower contact					340									
345.7		50°CA chalcocite veinlet in intense pink Kspar altered zone										*				
346'	348'	ALTERED ROSCOE GRANODIORITE					342									
		intense pink Kspar pervasive altered and weakens abruptly at 347.1														
3[illegible]	-1	dyke at 347 to 347.4 : Dyke has altered Roscoe country rocks					344									
348'	349.4	GRANODIORITE DYKE														
		Strong 40° foliation of mafics					346									
349.4	366.1	ROSCOE GRANODIORITE														
		Also weakly foliated mafics 47°CA					348									
@350.3		epidote vein with 15cm pink envelope														
@351.9		Small fault 60°CA hematite-clay slips 20cm zone					350						627708	352	359	280
@352.3		Pink zeolite vein swarm											627709	359	361	322
@353.8	354.6	Network of CA parallel clear drusy zeolite veinlets.					352									
@358	359	Weak patchy alteration of Kspar with sericite fractures										*				
@352.8		Minis chalcocite on fracture 25°CA										*				
352.9		Qtz epidote vein 1cm 60°CA.														
357.1		chalcocite on Qtz Sericite vein margin 78°CA.										*				

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INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A	B	C	D (pink Ksp)	FRACTURE INTENSITY	MINERALIZATION CP	BN	PY	MAG	Cc	ASSAYS SAMPLE	FROM	TO	Cu
@ 358.8	359.3	Zone cut by sericite fractures and pink Kspar altered Minor chalcocite on some fractures										*				
@ 358.1		Qtz epidote vein 2cm wide 85°CA minor chalcocite specks. Adjacent pink zeolite										*				
		vein 2cm wide.														
@ 361	376.7	Pink Kspar alteration becoming stronger due to shears, small faults and zeolite veins, accompanied by														
		epidote veining. Overall moderate intensity with local variation.					360									
@ 363.7		2cm zeolite calcite epidote sericite vein 40°CA														
@ 365.3	365.6	Sheared zeolite calcite vein 46°CA.					362									
@ 366.1		Sheared contact with red earthy slips 65°CA.														
							364									
366.1	375.0	FINE GRAINED GRANODIORITE DYKE - BETHLEHEM?														
		Variably Kspar altered with 5 to 6% 1mm biotite crystals. Displays large 1cm poikolitic Kspars					366									
		Blochy core. - sheared. Short section of Roscoe granodiorite 367.6 to 367.8														
@ 367.0		Bleby chalcocite in Kspar altered section					368					*	627710	366.0	369.0	156
		Specularite on fractures with epidote veins.											627711	369.0	371.0	2
373.8	374.7	Fault Zone 60 to 65°CA					370						627779	371.0	374.0	36
		This phase seems to grade into Chataway granodiorite. Local intervals 375 to 377 have some appearance of Bethlehem phase with														
		coarse, ~5% poikolitic Hornblende crystals but then grade into Chataway. Mafic content overall is greater than 15%.														
376.7	377.7	Intense pink Kspar alteration - pervasive with specularite fractures. Epidote veining											627780	374.0	376.7	69
		6 to 7/m Chalcocite in fractures and veinlets 85°CA at 377.3 and epidote - chlorite					374					*	627712	376.7	378.7	1277
		vein with Chalcocite - bornite at 377.8 75°CA							*			*	627781	378.7	381.7	23
							376						627782	381.7	384.7	22
375.0	412.4	CHATAWAY GRANODIORITE														
		Hornblende dominant 1 to 4mm hornblende with some variations locally.					378									
380.3		Hematite clay slip 60°CA.														

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INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A B C D	FRACTURE INTENSITY	MINERALIZATION CP BN PY MAG Cc	ASSAYS SAMPLE	FROM	TO	Cu
		Granodiorite is punctuated by local Kspar pink alteration on fractures (2 to 3 mm) and							
		pink zeolite veins ~50°CA. Wide pink alteration patches are local to small hematite-clay slips and shears							
@382.5		small 5cm fault 70° to 75°CA hematite-clay gouge and breccia. Assayed at 382.9, 383.1, 382.2							
@384.9		65°CA Zeolite-calcite vein 1.5cm wide with hematite slips and adjacent epidote-sericite alteration							
@385.9	388.8	2 to 5mm white qtz green sericite veins 74°CA with 4 to 5 mm Kspar pink alteration envelopes							
@388.2		Sheared vein of zeolite calcite with epidote-pink Kspar envelope 60°CA.							
@393.1		20cm section of dark green sericite altered zone by 1cm pink zeolite-calcite vein 75°CA							
@396	397	Two intervals of Kspar chlorite alteration with specularite veins ~55°CA trace Chalcocite?			*	627713	395.8	397.8	138
403.2	404.2	Chloritized mafics and Kspar altered zone with white calcite-pink zeolite veining. Epidote							
		stringers and red hematite slips.							
404.8	405.0	Dark green sericite pervasive alteration from pink zeolite calcite veining							
407.9	408.8	Dark gray granodiorite phase							
410.0		Kspar altered by qtz-epidote vein 80°CA with hematite slips - small fault. Alteration pink kspar above and							
		below the fault. - blocky core last two runs. Specularite on slips and as veins.							
412.4		End of hole.							

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DIAMOND DRILL SUMMARY

Project No. CVS
Hole No. 93CVS-7
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Property CVS
Claim CVS 8
Section LINE 66N TESTING NORTHEND OF SUPERIOR NORTH ANOMALY.

Date Started OCT 4, 1993 D.
Date Finished OCT 7, 1993 D
Logged By S. ENNS
Contractor ATLAS DRILLING, KAMLOOPS
Core Stored At CHATAWAY LAKE LODGE CAMPSITE

SUMMARY LOG			ASSAYS					
FROM	TO		FROM	TO	Cu			
0	6.1	OVERBURDEN						
6.1	280.7	CHATAWAY GRANODIORITE cut by finer grained granodiorite phases of dyke at 99.4-102.1, 113.9-118.9, 165.6-166.4, 174.6-174.3. A dark green QFP dyke with strong wallrock alteration is at 155.7-160.3. Several intervals of K spar alteration occur at 19.8-23.4, 61.°-63.°, 182.°-195.°. Saussenitization as pervasive alteration occurs at 72.8-76.8. The granodiorite is punctuated by chalcocite-bornite filled fractures 1 to 4 mm wide, often patchy and discontinuously mineralized on fracture that show little evidence of associated hydro thermal alteration. Some mineralization occurs on margins of pink Kspar altered quartz veinlets. Near the top of the hole 15-25°CA increase to 25-40° CA at the bottom. Most mineralization is too weak to be sampled.			Low Copper Levels (<200ppm)			

CORE SIZE		
FROM	TO	SIZE
6.1	280.7	NQ

TOTAL DEPTH 280.7m
CORE RECOVERY +99%

COLLAR SURVEY	
NORTHING	6620N
EASTING	5455E
ELEVATION	1423m
BEARING	270°
DIP	-60°
REFERENCE	

DOWN HOLE SURVEY		
FOOTAGE	DIP	AZIMUTH
93.2	-60°	277°
224.3	-58½°	282°

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DIAMOND DRILL LOG

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INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A	B	C	D	FRACTURE INTENSITY	MINERALIZATION CP	BN	PY	MAG	Cc	ASSAYS SAMPLE	FROM	TO	Cu
0	6.1	CASING														
6.1	99.4	CHATAWAY GRANODIORITE														
		total mafics 15-17%, 1-3 mm up to 8-9mm. Hornblende > Biotite, pink mottling of K feldspar ~ 25%														
		Qtz rounded 2-3mm. Uniformly distributed mafics - except for 1-2% 8-9mm amphibole clots - medium grained.														
		Blocky core > 10 fractures/m, 1 to 2 pink zeolite filled fractures from about 50°CA with ½ to 1.5cm pink Ksp. envelopes.														
@11.5		Edge of pink aplite dyke - both cut by 2mm Qtz vein 5°CA with 1-3mm marginal chalcocite patch									*					
@17.3		fault 22°CA 10cm wide														
@19.8	23.4	Zone of moderate Kspar pink alteration with intense pinking from 20.2 - 20.8 with shearing 70°CA at lower margin - sericite and clay.														
@18.9	19.1	Shearing - crenulated fractures														
@23.5		Core axis parallel pink Qtz aplite														
@24.6	24.8	2mm white Qtz vein with marginal chalcocite - bornite 20°CA cuts aplite and granodiorite						*			*					
@25		Sericite clay fractures 25°CA with sericite envelopes 3cm														
@28.7	29.3	Pink Qtz aplite dyke cuts CA. - weak malachite at 28.7.														
@34	36.0	1cm vein of pink qtz aplite parallel to core axis - sausseritized and chloritized adjacent granodiorite - affected core down to 37.2.														
@36.6		Small fault 10°CA.														
@38.1		Small fault with red earthy hematite - clay gouge														
39		Unaltered uniform granodiorite with local weak sericite alteration sections adjacent to 2mm Qtz sericite veins 10 to 18°CA; some exhibit weak pink Kspar envelopes.														
		Scattered pink sericite-calcite 2mm veins 45 to 50°														
@47.8	48.4	Fault zone 47 - 50°CA clay - sericite gouge and breccia														
@50.3		Patchy chalcocite - bornite 1mm fracture 15°CA Trace malachite						*			*					

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DIAMOND DRILL LOG

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INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A	B	C	D	FRACTURE INTENSITY	MINERALIZATION CP	BN	PY	MAG	Cc	ASSAYS SAMPLE	FROM	TO	Cu
@ 50°	56.4	Very broken and blocky core							*			*				
@ 52.6		25°CA 1mm fracture of chalcocite - bornite														
@ 53	56	Clear zeolite drusy veinlets parallel to core, and earthy red hematite slips.														
@ 55	56	Rubbly core - probably CA parallel shear? 7°CA fault at 56.1														
@ 56.3	57	7°CA fracture with sericite fractures and cross veinlets of calcite - Kspar pinking														
@ 58.2	59.2	Fault zone. 30°CA @ 58.2, 41°CA @ 58.5														
@ 59.8		Fault Zone. } part of same fault zone 58.2-59.2 with unaltered granodiorite sections between gouge.														
@ 60.1		Fault 60°CA														
@ 61.0	63°	Kspar altered granodiorite with intense pink alteration - cut by several green sericite - qtz veinlets at 15 to 25°CA														
@ 62		Chalcocite - bornite bearing fracture 25°CA - irregular patches extend into wallrock from fracture = typical and are related? to intense pink Kspar alteration							*			*				
@ 63°	64.4	Fault zone - Epidote vein and preserved granodiorite clast 3cm x 8cm in fault. Abundant pink zeolite calcite veining - clay - sericite.														
@ 67	72.	patchy weak Kspar pinking of granodiorite caused largely by bright green Qtz-sericite 2mm veinlets 10 to 15°CA. More localized ½cm pinking caused by pink zeolite fractures 50 to 85°CA.														
@ 72.8	76.8	intense pervasive saussertization - cut by 3-4 pink zeolite veins 1mm - rubble core 73.4 - 75.0. Also Kspars are hematized and mafics chloritized. Mainly (alteration) caused by core axis subparallel zeolite veins.														
@ 81.4		Small fault 22°CA.											@ 84.8 pink Kspar alteration adj			
@ 81.6		1 to 2mm chalcocite faint malachite - chrysocolla vein 18°CA.										*	@ 85.3 - 85.8 Fault zone with			
		Granodiorite phase slightly coarsens and displays mottled pink K-spar patches that vary with gradual transition to finer grained phases. Poikilitic Kspars. Mafic inclusion 30cm @ 95.3											blocky core both sides 40°CA bre and gouge			
@ 93.3	94°	3 pink zeolite fractures with sericite alteration envelopes 15°CA.											@ 88.7 - 90° CA parallel sericite vein with red hematite margin			
@ 98.4	99°	Transition to Roscoe granodiorite phase.														
@ 96°		Chalcocite vein at edge of 5°CA chlorite sericite vein - also about 10-15°CA.											@ 89.5 1mm discontinuous bornite			

* vein 15°CA. *

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INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	ALTERATION D	FRACTURE INTENSITY	MINERALIZATION CP	MINERALIZATION BN	MINERALIZATION PY	MINERALIZATION MAG	MINERALIZATION Cc	ASSAYS SAMPLE	ASSAYS FROM	ASSAYS TO	ASSAYS Cu
@119.1		1 to 4mm patchy bornite-chalcocite veini 11°CA - little evidence of wallrock alteration							*			*	- sample taken 15cm, 10cm			
@125.8		patchy bornite-chalcocite to 5mm. 19°CA - faint pink envelope alteration							*			*				
@127.3		21°CA sheared sericite - clay veni with marginal bornite and chalcocite as patchy							*			*				
		wallrock impregnation. 2 to 3mm Pink Kspar envelope - from later veni? from mineralization?														
@127		Granodiorite mafics look more uniform in size distribution and is cut by CA parallel pink fractures (zeolite) and a few that are 65 to 70°CA.														
@128.8		10cm fault of clay sericite gouge 60°CA														
@130	130.5	fault zone with sericite clay gouge 60 and 35°CA - intense localized dark green sericite alteration and Kspar pinking														
@135.3		46° CA faulted veni 1cm wide with 1½cm sericite altered envelopes.														
@135.7		spotty bornite - chalcocite veni 27°CA							*			*				
@139.3		small fault 35°CA. below this is a CA parallel sericite fracture to 140.6														
@143.7	144.0	small fault - sheared wallrock below fault. down to 145.4. - no great evidence of slip movement.														
@146.3	146.8	core axis parallel pink zeolite - calcite veni with wallrock pink Kspar alteration														
@146	149	Weak pervasive sericite alteration - cut by well developed stockwork of microfractures.														
@133.4		22°CA chalcocite - bornite fracture 1mm. semicontinuous - no evident alteration							*			*				
149.4	154.9	Box 27 - spilled: starting at 150.3 core is mostly highly fractured with calcite, sericite and red hematite. Granodiorite is altered to														
		pink colours with weakly chloritized mafics (and sericitized). Hematite slips are abundant														
@155.3		Bornite veni 22°CA semicontinuous 1 to 3mm.							*							
155.9	160.0	DARK GREEN FELDSPAR PORPHYRIC DYKE (QFP)														
		fractured, dark to pale green with 10 to 15% and 15% clear rounded quartz eyes 2mm euhedral feldspars. Locally fractured and														
		faulted. 156.7, 159.5 and Chatoway granodiorite inclusion 157.7 - 158.1														
@159.8		25°CA hematite impregnated fracture.														

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INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A B C D	FRACTURE INTENSITY	MINERALIZATION CP BN PY MAG Cc	ASSAYS SAMPLE FROM TO Cu
@99.3		18° CA 1 to 2mm bornite discontinuous veinlet			*	
99.4	102'	FINE GRAINED GRANODIORITE DYKE				
		FINE TO MEDIUM grained, 30° CA upper contact - abrupt. Lower contact irregular with coarser inclusions.				
@101.4		small faulted vein 25° CA				
102'	113.9	CHATAWAY GRANODIORITE				
		Coarser phase with mottled pink Ksp 17 to 18% mafics - hornblende dominant, some similarity to Roscoe phase, but with higher mafic content.				
@104.2		1 to 3mm bornite chalcocite veinlet 18° CA cut by pink zeolite vein similar CA.			* *	
		Several 1 to 2mm Qtz - green sericite veinlets with 1 to 2cm pink envelopes at 24° CA spaced about 1 per m.				
@106.9		Sheared white calcite vein with hematite slips - sericitized and pale pink envelope 35° CA				
@108.9		20cm fault - breccia and clay sericite				
		Some textural variation in granodiorite below fault to look similar to dyke @ 99.4. A few pink zeolite veins 50°-70° CA.				
		and sericite qtz veinlets <1/m				
113.9	118.9	FINE GRAINED GRANODIORITE DYKE				
		Similar to 99.4 ubrupt contacts. Cut by sparse pink zeolite veinlets and several nearly CA parallel slightly				
		sheared sericite fractures.				
@115.7		20cm inclusion(?) of coarser chataway granodiorite.				
@116.6		10cm intrusion breccia				
@117.3		coarse slab of magnetite 2cm x ½cm.				
118.9	155.7	CHATAWAY GRANODIORITE				
		Becomes locally coarse, especially the mottled pink Ksp patches ~ 25 to 30%.				

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INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A	B	C	D	FRACTURE INTENSITY	MINERALIZATION CP	BN	PY	MAG	Cc	ASSAYS SAMPLE	FROM	TO	Cu
160.3	165.6	CHATAWAY GRANODIORITE														
		Fractured dyke margin – alteration and fracturing extends to 164.1 & is unaltered below this depth.														
@161.2		Fault zone with breccia 22° CA.														
165.6	166.4	GRANODIORITE DYKE (FINER GRAINED) – as 113.9 abrupt contacts														
166.4	172.6	CHATAWAY GRANODIORITE														
		Weak sericite alteration 169.6 to 170.0.														
		Similar in appearance to Roscoe phase														
172.6	174.3	GRANODIORITE DYKE – as 165.6 with Chataway inclusions @ 173 and 174.														
174.3	275.4	CHATAWAY GRANODIORITE														
		Becomes increasingly fractured and altered downhole toward 176.6 – Alteration = pinking (Kspar) with hematite, calcite + sericite fractures.														
@175.8	176.2	Strong shear zone with red hematite slips. and minor brecciation – possibly small fault														
@176.6	177.6	Intensely green pervasive sericite altered interval – mafics and feldspars altered to sericite														
@177.6	178.2	Intensely sheared section – faulted 30°CA clay-sericite.														
@179.7	180.3	Intense green sericite altered section as 176.6 at margin of small fault 13°CA at 180.9 below which granodiorite is pervasively pink Kspar														
		altered – moderate; with chloritized mafics. down to 181.5.														
@182.0	195.1	Granodiorite is altered overall to pervasive pink Kspar and mafics to chlorite plus sericite. Rock is highly fractured and cut by zeolite veinlets 5 to 7														
		plus green sericite – qtz at random angles about 2-3/m. and red hematite fractures. Poikilitic Ksp present throughout.														
@185.4	185.9	CA parallel vein and small fault at 185.9														
@192.8	193.5	Fault Zone – sericite – clay hematite gouge														
@194.7		Fault Zone 26°CA. with parallel Bornite mineralization and chalcocite							*		*					

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INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	ALTERATION D	FRACTURE INTENSITY	MINERALIZATION CP	MINERALIZATION BN	MINERALIZATION PY	MINERALIZATION MAG	MINERALIZATION Cc	ASSAYS SAMPLE	ASSAYS FROM	ASSAYS TO	ASSAYS Cu
@ 196		Bornite - chalcocite 40°CA marginal to pink envelope zeolite veins							*			*				
@ 200		Small fault 35°CA gouge red hematite - clay. Blocky	core		198.5		200.3						627733	198.5	201.5	198
@ 201		40° CA Chalcocite-bornite, trace chalcopyrite						*	*			*	627734	201.5	209.5	98
@ 201.9		23° banded quartz vein with minor chalcocite on margins										*				
		Patchy, pink pervasive, through fracture-related alteration caused by faults and pink zeolite is present between 199 and 202.														
		Below 205' the granodiorite is less altered with numerous fracture vein related Kspar envelopes														
@ 212.5		35°CA 1mm chalcocite vein										*				
@ 218'		10cm fault 35°CA														
@ 219.4		1-3mm chalcocite bornite vein 30°CA.										*				
@ 218.5		speck of chalcocite										*				
@ 220.8		CA parallel small faults.														
@ 223.5	224.0	altered granodiorite and faulted crushed rock.														
@ 220	237.	granodiorite generally fresh with local 5 to 10cm pink Kspar altered patches, local to veins														
		and fractures (1 to 2 such altered zones/m) Poikilitic Kspar present throughout.														
@ 231.6		15cm pink aplite - graphic granite dyke.														
@ 237	245	Pink Kspar alteration patches become wider 20 to 50cm and are related to pink zeolite - calcite veinlets and veins: up to 1cm wide up to 10/m.														
@ 237.3	237.7	Fault Zone with 1cm breccia clasts and clay gouge material.														
@ 242.8	243.5'	Sericite alteration along core axis														
@ 243.3		40°CA 3cm fault														
@ 245.4		Fault Zone with breccia and dark green sericite and clay gouge 20°CA. chips						Intense								
		green sericite alteration up to 244.7.														
@ 245	258	Less altered granodiorite - cut by green qtz - sericite 2 to 5mm veins that cut at 25°CA. between 248 and 251 m. Clear quartz veinlets on dirty														
		veins cut at 10 to 20°CA. Intrusive becomes coarser grained.														

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DIAMOND DRILL LOG

PROJECT : CVS
D.D.H. NO.: 93CVS-7
Sheet 8 of 8

INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	ALTERATION D	FRACTURE INTENSITY	MINERALIZATION CP	MINERALIZATION BN	MINERALIZATION PY	MINERALIZATION MAG	MINERALIZATION Cc	ASSAYS SAMPLE	ASSAYS FROM	ASSAYS TO	ASSAYS Cu
@ 251.3		1 to 2mm chalcocite-bornite vein with no alteration envelope 30°CA							*			*				
@ 255.3		20cm clay hematite gouge 60° to 70° CA.														
@ 259.0	265.0	Zone of mixing of course phase of Chatanway granodiorite and a finer more mafic phase with poikilitic Kspar similar to Typical Chatanway														
		Kspar pinking marginal to pink zeolite vein @ 259.2														
@ 265.7		1mm chalcocite-bornite vein 50°CA.							*			*				
@ 265.7		discontinuous 1mm chalcocite-bornite veinlet 36°CA							*			*				
		Coarse granodiorite continues below 265.0 with large poikilitic	Kspar.	Fine	chlorite				gtz	veins	267	–	288.8			
@ 269.8	270.4	Fault Zone 55°CA														
@ 270.8		10cm fault zone 50°CA.														
273.2		30cm fault zone red hematite-clay gouge 50°CA.														
274.7	275.4	Fault Zone gouge and Breccia 45°CA														
275.4	276.7	DIORITE DYKE														
		25% mafics dominantly hornblende 2-3mm. faulted upper contact														
		and irregular lower contact with pink Kspar alteration of granodiorite below.														
276.7	280.7	CHATAWAY GRANODIORITE														
		Course phase green sericite-gtz veinlets with 1cm pink envelopes 25-30°CA														
		Becomes less altered (pinking) away from dyke contact.														
280.7		End of Hole.														

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DIAMOND DRILL SUMMARY

Project No. CVS
Hole No. 93CVS-8
Page 1 **of** 8

Property CVS
Claim CVS-8
Section LINE 5B - TEST INVERTED CHARGEABILITY ANOMALY CONNECTING ROSCOE AND BILLY LAKE ANOMALY AT DEPTH.
Date Started OCT. 7, 1993 N
Date Finished OCT 11, 1993 D
Logged By S. ENNS
Contractor ATLAS DRILLING, KAMLOOPS
Core Stored At CHATAWAY LAKE LODGE CAMPSITE

CORE SIZE		
FROM	TO	SIZE
20.1	316.7	NQ

TOTAL DEPTH 316.7
CORE RECOVERY +99%

COLLAR SURVEY	
NORTHING	5810N
EASTING	4008E
ELEVATION	1478.3m
BEARING	270°
DIP	-70°
REFERENCE	

DOWN HOLE SURVEY		
FOOTAGE	DIP	AZIMUTH
87.2m	-68½°	281°
248.7	-67¾°	282°

SUMMARY LOG			ASSAYS					
FROM	TO		FROM	TO	Cu			
0	20.1	OVERBURDEN						
20.1	75.0	ROSCOE GRANODIORITE cut by fault at 33.7 to 34.7m and intruded						
		by fine grained granodiorite dykes.						
75.0	240.0	CHATAWAY GRANODIORITE intruded by several finer grained granodiorite						
		dykes. Faulted at 92.0 to 93.3 and 195.7 to 199.0. Wider granodiorite	125.5	128.5	350			
		dyke, 163.5 to 191.3 locally displays mineralogic and textural similarities	128.5	130.5	206			
		to Chataway granodiorite. Sparse, discontinuous veins of chalcocite and	130.5	133.5	238			
		bornite are present with low core axis angles and some show weak, associated						
		hydrothermal alteration. Elsewhere, alteration is generally localized to small fault						
		zones as short intervals of pervasive sericite, or as K-spar pink envelopes						
		to pink zeolite-calcite veining. Native copper is sparsely disseminated						
		but common in its distribution - often displaying an affinity for						
		hornblende and magnetite margins, indicating a late magmatic origin. It occurs in places along local						
		fractures suggesting supergene origin.						
240.0	269.7	ROSCOE GRANODIORITE is generally transitional from Chataway						
		granodiorite.						
269.7	316.7	CHATAWAY GRANODIORITE is transitionally gradational from the Roscoe						
		phase. Minor native copper is present at depth at the bottom						
		of the hole.						

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DIAMOND DRILL LOG

PROJECT: CVS
D.D.H. NO.: 93CVS-8
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INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	ALTERATION D	FRACTURE INTENSITY	MINERALIZATION CP	BN	PY	MAG	Cc	Cu	ASSAYS SAMPLE	FROM	TO	Cu
0	20.1	CASING															
20.1	62.4	ROSCOE GRANODIORITE															
		Coarse grained 3 to 6 mm, 14 to 15% Hornblende - often poikilitic, fresh, unaltered 5-6 fractures/m															
@ 21.9	22.4	Cave rubble. Inclusion of mafics @ 23.2. QTz veinlets 2mm thick and there 25 to 40°CA															
@ 27.1	27.3	Soft crumbly core - fault															
@ 27.1	28.7	Lost Core 1.2 m.															
@ 30.3		Small fault - broken rubbly core - soft.															
@ 31.5		Small fault.															
@ 33.7	34.7	Faulted zone 25°CA with dark green sericite, red hematite, cuprite?, minor malachite and										*	*				
		Impossella after chalcocite and native copper?															
@ 35.9		Minor fault.															
@ 36.0	37.0	CA parallel 1 to 3 mm calcite veinlets															
@ 38.3		Lavender qtz veinlet 25°CA with green 2cm sericite envelope extends 39.8 where															
		core displays pinking due to several pink zeolite veinlets with red earthy hematite on fractures															
45.5		In places variable biotite content (after hornblende) occurs up to 5% as coarse flakes.															
		Sometimes isolated, sometimes with primary hornblende.															
52.3		Small fault 15°CA 2 to 4cm wide with sericite wallrock alteration															
62.4	65.5	FINE GRAINED GRANODIORITE DYKE															
		Medium grey with 3 to 4% 2 to 4mm black hornblende crystals - sharp contacts. 60°CA approx., 90°CA lower.															
		2cm amphibole crystal @ 63.5, Roscoe granodiorite inclusion at 65.0															
65.5	75.0	ROSCOE GRANODIORITE															

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DIAMOND DRILL LOG

PROJECT : CVS
D.D.H. NO.: 93CVS-8
Sheet 3 of 8

INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A	B	C	D	FRACTURE INTENSITY	MINERALIZATION CP	BN	PY	MAG	Ce	Cu	ASSAYS SAMPLE	FROM	TO	Cu
		Coarse grained - uniformly distributed predominantly hornblendes. Pink zeolites															
		cut core 25 and 60°CA with pink envelopes. here and there. One such vein parallel to CA 23.3 to 24.4.															
		Pink aplite veins/dykes 55°CA 5 and 10cm @ 71.															
@74.7		Pink zeolite-calcite vein with trace molybdenite or chalcocite 10°CA.															
@78.1		Pink zeolite-quartz vein 3-4mm 30°CA with 2cm pink envelope. Disrupted parts of chalcocite							X			X	X				
		trace bornite mineralization (- zeolite cuts mineralization?) Trace native copper on fracture															
		The granodiorite gradually becomes more even grained with less subporphyritic appearance															
		of Roscoe phase. - transition begins about 75.0.															
75.0	128.6	CHATAWAY GRANODIORITE															
		14 to 16% hornblende and biotite. Coarse biotite flakes, some after amphibole? Biotite proportion															
		comes and goes randomly. Unit is uniform to 112.0m.															
@84.4		Minor native copper dissemination (hypogene) scattered throughout, often with mafics											X	627735	76.7	79.7	101
		sites and sometimes on fractures												627736	79.7	82.7	109
@92.0	93.3	Fault Zone 25°CA. red hematite slips - caused weak pink Ksp alteration												627737	82.7	85.7	79
		to 96.0. 3 to 4 pink zeolite veins 93.3 to 96.0															
		Zeolite veins average about 2 to 3/m.															
		Native copper dissemination persists, weak, noted down to 104.0.											X	627738	113.5	116.5	109
@114.3	115	2-10 to 15°CA qtz vein with sericite envelope - trace native copper											X	627739	116.5	119.5	58
@121.1	115	½cm Qtz Epidote vein with 2cm pink envelope 15°CA - chalcocite - bornite							X			X	X	627740	119.5	122.5	229
@122.5		same. - plus native copper.							X			X	X	627741	122.5	125.5	150
		Weak native copper content may be associated with late hydrothermal veining. zeolite, qtz-chalcocite, etc.												627742	125.5	128.5	350
@124.5	130.0	microfractured and filled by grey qtz.												627743	128.5	130.5	206
@126	126.5	Pink and white, 2.5cm pink zeolite calcite vein with bornite and native copper CA parallel							X				X	627744	130.5	133.5	238
@127.0		Small fault 35°CA 5cm wide.															

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DIAMOND DRILL LOG

PROJECT : CVS
D.D.H. NO.: 93CVS8
Sheet 4 of 8

INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A	B	C	D	FRACTURE INTENSITY	MINERALIZATION CP	BN	PY	MAG	Cc	Cu	ASSAYS SAMPLE	FROM	TO	Cu
128.6	130.5	GRANODIORITE DYKE															
		dark grey, mixed with Chataway granodiorite inclusions about 20% 1 to 2 mm mafics.															
		also mineralized by small amounts of disseminated native copper throughout - sample of dyke for Cu content.											✓				
130.5	152.8	CHATAWAY GRANODIORITE															
		cut by 3 to 4 pink zeolite veins with small Kspar pink envelopes and short intervals.															
		Native copper present in small amounts here and there.											✓				
		Fine grained grey dyke as 128.6 to 130.5. at 131.2 to 131.6															
@134		1cm pink zeolite vein 15°CA															
@135.7	138.7	Interval of pink Kspar alteration from pink zeolite vein swarm. Saussuritized feldspars in close															
		proximity to veins @138 15°CA red hematite slips on epidote calcite vein.															
@140.0	140.6	Fault zone 25°CA crushed rock and gouge.															
@141.8	147.9	Box 22. Rather pristine Chataway granodiorite with minor amounts of native copper dissemination											✓				
		check sample for Cu content												627745	142.0	145.0	74
@148.1		5°CA Qtz sericite vein															
@150	150.5	10°CA 5cm wide fault with breccia and red hematite slip. - narrow envelope of sericite <1cm.															
152.8	154.4	GRANODIORITE DYKE															
		Medium grey fine grained, 14% mafics uniformly distributed - lighter colour than 128.6 dyke															
		cut by drusy crystalline fine grained quartz veinlets.															
154.4	163.5	CHATAWAY GRANODIORITE															
		as 130.5.															
		Cut by clear zeolite drusy veinlets @154 to 156 and short intervals of quartz sericite matrix to intrusion breccia sections @156.5 to 156.7															

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DIAMOND DRILL LOG

PROJECT: CVS
D.D.H. NO.: 83 CVS-8
Sheet 5 of 8

INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A	B	C	D	FRACTURE INTENSITY	MINERALIZATION CP	BN	PY	MAG	Cc	Cu	ASSAYS SAMPLE	FROM	TO	Cu
@158.7		1cm qtz-epidote vein 25°CA with bornite-chalcocite-2cm pink alteration envelope						*				*					
@159.6		Narrow 20cm granodiorite dyke (similar to 152.8) cut by fault pink vein containing native copper											*				
		and suggesting hydrothermal viz supergene origin for the copper. Sample.															
@161.1		Narrow 20cm granodiorite dyke (similar to 152.8)															
163.5	191.3	GRANODIORITE DYKE															
		Similar to 152.8. with 15% 2-4mm hornblende and biotite. Hornblende dominant.															
		Massive 3-4 fractures/m Cut by sparse pink zeolite veinlet.															
@172°	174°	Becomes weakly mottled by primary pink ~1cm K spar patches similar to some varieties of Chataway granodiorite															
@176.2	177.4	Bleached interval with weakly chloritized mafics. Cut by 10°CA pyr qtz-sericite 2mm veinlet.															
		Some colour variation caused by dark and light phases. 10 to 30cm wide															
@183.5		2cm sheared vein with sericite envelope 25°CA.															
@187.1		8°CA 1 to 3mm green qtz-sericite veins with sporadic small patches of chalcocite in margin										*					
		lower contact becomes sericite altered, sheared and cut by small faults from (189.0m) 15°CA-15°CA.															
191.3	199.0	CHATAWAY GRANODIORITE															
		Contact zone to 192.6 altered to sussuritized feldspars and chloritized mafics drier to 192.6															
@194.5		5°CA Bornite-chalcocite veinlet with native copper association in wall rocks. sample.						*				*	*				
@195.7	197	Fault Zone - soft friable rock - sheared and with slips 40°CA - good core recovery.															
@198.3	199	Fault Zone. - red hematite slips and gouge. 15 to 25°CA.															
199.0	201.6	GRANODIORITE DYKE															
		As 163.5, with variable grain size and texture.															

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DIAMOND DRILL LOG

PROJECT : CVS
D.D.H. NO.: 93CVS-8
Sheet 6 of 8

INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A	B	C	D	FRACTURE INTENSITY	MINERALIZATION CP	BN	PY	MAG	Cu	ASSAYS SAMPLE	FROM	TO	Cu
201.4	203.7	CHATAWAY GRANODIORITE														
	?	inclusion or screen?														
		Fault: much red earthy hematite. 10 to 15°CA.														
203.7	207.6	GRANODIORITE DYKE														
		Trace native copper - with mafic minerals around 204 - 205														
		Becomes coarser toward lower contact with Chataway granodiorite appearance.										*				
		Lower contact faulted 63°CA. Finer grained, as before.														
207.6	209.5	CHATAWAY GRANODIORITE														
		Native copper, trace amounts 208 to 210 - has appearance of supergene deposition.														
209.5	214.1	GRANODIORITE DYKE														
		with trace amounts of native copper dissemination														
210.7	210.9	weak Kspar alteration - bleaching caused by Qtz epidote vein														
214.1	240°	CHATAWAY GRANODIORITE														
		Coarse grained with local variations having similar appearance as Roscoe phase														
		Scattered weak amounts of native copper are common. Strong affinity for margins of										*				
		mafic minerals and magnetite.														
223.0	227.	Dark mafic rich schlieren? Also drusy crystalline veinlets														
		of clear zeolite and quartz in otherwise fresh, unaltered granodiorite														
228.6	230.9	Epidote - chlorite alteration by fractures with several shears at 230.5-6 230.7 and 237.0-237.5 25°CA with red hematite.														
234.3		Small fault 15°CA. with red earthy hematite slips														

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DIAMOND DRILL LOG

PROJECT: CVS
D.D.H. NO.: 93CVS-8
Sheet 7 **of** 8

INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A	B	C	D	FRACTURE INTENSITY	MINERALIZATION CP	BN	PY	MAG	Cu	ASSAYS SAMPLE	FROM	TO	Cu
		Microfracturing - filled by grey quartz, sericite and chlorite														
		Minor amounts of native copper present 235 to 238										*				
		Occasional quartz epidote veinlet with pink Kspar envelope. 50°CA. +1/per m														
		Uniform coarse, black poikilitic amphibolos. 15 to 17%, 3 to 7 mm - very much like Roscoe phase.														
		In places, drusy clear zeolite veinlets.														
240.0	269.7	ROSCOE GRANODIORITE														
		Coarse hornblende dominant granodiorite - uniforme 13 to 14% 3 to 8 mm poikilitic. Massive 3-4 fractures 1m														
		Black to dark green hornblende. Unaltered. Scattered small amounts of disseminated														
		fine grained native copper scattered throughout - observed 250 to 260 m.										*				
@ 261.0	261.8	intrusive breccia subrounded and subangular, mm to 2 mm clasts - clast or framework supported with grey														
		quartz - sericite and clear zeolite (- drusy cavities) - orthomagmatic in origin.														
@ 263.5		Small 2 cm fault 32°CA clay - red hematite slips.														
@ 268.8		Small 2 cm fault with 35°CA shear.														
@ 269.7		incipient intrusive breccia marks Roscoe granodiorite lower contact														
269.7	316.7	CHATAWAY GRANODIORITE														
		Generally similar to Roscoe but with greater mafic size distribution variation.														
		native copper 270 to 272 - minor amounts of fine grained disseminations - edges of mafics or in veinlets										*				
275.6	276.8	intrusive breccia - subangular clasts mm - 5 cm. mostly clast supported - locally matrix support over 20 cm.														
		local Roscoe phases across ½ to 1 m intervals with gradational/indistinct boundaries.														
		Occasional 1 to 2 mm epidote veins with weak alteration envelopes. 20 to 90°CA.														
300.2	305	Brecciated small fault 80°CA - epidote - hematite veining														
		Mafic Inclusions 301.2 and 305.2 m, 309.6														

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DIAMOND DRILL LOG

PROJECT: CVS
D.D.H. NO.: 23CVS-8
Sheet 8 of 8

INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	ALTERATION D	FRACTURE INTENSITY	MINERALIZATION CP	MINERALIZATION BN	MINERALIZATION PY	MINERALIZATION MAG	ASSAYS SAMPLE	ASSAYS FROM	ASSAYS TO	ASSAYS Cu
		Native copper specks - trace disseminations down to end of hole.													
		Continues course grained to bottom													
316'		END OF HOLE													

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DIAMOND DRILL SUMMARY

Project No. CVS
Hole No. 93CVS-9
Page 1 **of** 9

Property CVS
Claim CVS-8
Section SOUTH END OF SUPERIOR NORTH ANOMALY

Date Started OCT. 12, 1993
Date Finished OCT. 15, 1993
Logged By S ENNS
Contractor ATLAS DRILLING, KAMLOOPS
Core Stored At CHATAWAY LAKE LODGE CAMPSITE

SUMMARY LOG		
FROM	TO	
0.	6.1	OVERBURDEN
6.1	256.0	CHATAWAY GRANODIORITE throughout the hole is dominant with numerous finer grained grey granodiorite dyke intrusions 1 to about 8 m wide. Several pink K-spar alteration zones 5 to 11 m wide are present, caused by the effects of pink zeolite veining and fracturing. These are not apparently related to mineralization. Sporadic occurrences of chalcocite-bornite filled fractures and margins to narrow veins are present throughout the hole but with insufficient density to be of economic interest. Between 92 and 100 m several chalcocite fractures and veinlets show 46 to 75°CA with no apparent associated wallrock alteration. The best interval occurs between 138 and 145' where 7 or 8 chalcocite-bornite veins and fractures 1 to 3 mm wide display 44 to 55°CA again (with 2 exceptions) showing no association with hydrothermal alteration. A third weakly mineralized interval between 176 and 193 with similar mineralization displays 34 to 60°CA. A single 1 cm wide chalcopyrite-quartz-K-feldspar vein with 55°CA at 206.5' is localized within a short interval of intense pink K-feldspar alteration that is unmineralized.

ASSAYS					
FROM	TO	Cu			
134.5'	137.5'	334			
137.5'	140.5'	305			
140.5'	143.5'	268			
143.5'	146.5'	283			

CORE SIZE		
FROM	TO	SIZE
6.1	256.0	NQ

TOTAL DEPTH 256.0
CORE RECOVERY +99%

COLLAR SURVEY	
NORTHING	5432N
EASTING	49 33E
ELEVATION	1429.3 m
BEARING	045° AZ
DIP	-60°
REFERENCE	

DOWN HOLE SURVEY		
FOOTAGE	DIP	AZIMUTH
71.9	-59½°	047°
206.0	-59°	048°

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DIAMOND DRILL LOG

PROJECT: CVS
D.D.H. NO.: 93CVS-9
Sheet 2 of 9

INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A B C D	FRACTURE INTENSITY	MINERALIZATION CP BN PY MAG Cc	ASSAYS SAMPLE FROM TO Cu
0	6.1	CASING				
6.1	90.4	CHATAWAY GRANODIORITE				
		Uniformly distributed, 15 to 16%, 2 to 4mm mafics hornblende and biotite (subordinate biotite amount).				
		Unit cut by pink envelope veinlets of pink zeolite calcite (envelope ¼ to 1cm wide). about 2 to 4/m, several scattered mafic inclusions 5 to 20cm.				
		Small faults at 10.2 – 10.7, 12.0 – 12.2 (39–45°CA) and 12.5 – 12.9				
		Malachite veins with 1cm pink envelope at 11.0 29°CA, 13.9 27°CA				
		Below 15m unit displays faint mottled pinking due to 20-25% Kspar.				
		Local intense pink Kspar on fractures at 17.1 to 17.4. and 23.3 to 23.8 where shearing occurs with small fault 72°CA 3cm gouge				
		Local Kspar pinking 24.3 – 24.6 in 3 zeolite-lined fractures and veinlets				
28.3	39.1	Unaltered grey granodiorite, massive 3 to 5 fractures/m with fractures 45–55°CA and cut by occasional			Thin pink Kspar envelopes on	
		fractures and pink zeolite veinlets 50–55°CA. Slight textural variation by coarsening mafics size 2 to 5cm wide (and fining)				
39.1	57.0	Similar to 28.3 – 39.1. Starting to see qtz-green sericite 2–4mm veinlets with pink envelopes, about 2/m 55 – 70°CA – un mineralized (some with epidote).				
		Small fault @ 39.3 45°CA gouge.				
		Several sheared and faulted veins @ 44.8 80°CA; @ 45.1 60°CA; 47.2 to 47.4 2 veins @ 54°CA with broad Ksp-alta envelopes and local clay alteration				
		45.1 – 46.3 rubble core. also 48.5 @ 70°CA.				
57.0	61.9	Similar to interval above except for markedly fewer pink zeolite and green sericite quartz cross cutting veinlets until base of interval @ 58.0.				
	@61.5	to 61.9 Fault Zone with green sericite – chlorite gouge.				
61.6	73.2	Interval still similar – massive, unaltered, Chataway granodiorite.				
	@71.4	1-2mm chalcocite – bornite veinlet 57°CA – no alteration			*	*
	@71.8	same 36°CA.			*	*
73.2	85.0	granodiorite becomes mafic inequigranular 73 to 77 and then returns to original subequigranular texture.				
	@75.5	25°CA 1mm vein parallel to pink zeolite vein – chalcocite and bornite – also impregnated wall rock – local by			*	*
		in pink alteration envelope.				

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DIAMOND DRILL LOG

PROJECT: CVS
D.D.H. NO.: 93CVS-9
Sheet 3 of 9

INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A	B	C	D	FRACTURE INTENSITY	MINERALIZATION CP	BN	PY	MAG	Cc	MoS	ASSAYS SAMPLE	FROM	TO	Cu
		Small faults at 73.8 - 2cm 35°CA clay gouge.															
		at 83.2 2-3cm 05°CA clay-sericite gouge.															
83	88.5	Blocky core to 85° - Lost Core ~ 0.8m.															
85	90.4	General increase in pinking of granodiorite as well as slight bleaching? and chloritization of mafics.															
		Cut by pink zeolite-calcite veinlets															
90.4																	
90.4	91.7	FINE GRAINED GRANODIORITE DYKE															
		Inequigranular mafics: about 5% amphiboles - pink alteration by pink zeolite fractures															
		2-75°CA minor, 1mm chalcocite veinlet @90.5 and 91.3										X					
		Blocky core at base of interval.															
91.7	106.3	CHATAWAY GRANODIORITE															
		High content of pink (pervasive Ksp) alteration adjacent to the dyke - this extends to fault.															
		Cut by Qtz-green sericite veinlets, about 4/m between 92.3 and 94.2 40 to 50°CA. Alteration from pink zeolite and qtz-sericite veinlets.															
	@92.4	Qtz-graphite-MoS_2 2cm ribbon vein 40°CA with some more intense Kspar pinking															
	@92.5	Qtz Sericite epidote veins 1 to 2cm. 55°CA -															
	@94.0	Qtz Sericite vein 2mm with chalcocite? 47°CA										X					
	@95°	1mm chalcocite veinlet 61°CA										X					
@96.5	98.1	Strong fault zone - breccia and clay-sericite with hematite - clay slips 35°CA. Lost Core 0.5m															
	@98.9	Qtz - clear zeolite coarsely crystalline veining with cavities - strong sericite wallrock alteration.															
	@99.1	Minor chalcocite on margin of Qtz sericite veinlet 46°CA															
101°	102°	Blocky core															
	@104.6	Small shear 75°CA.															

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DIAMOND DRILL LOG

PROJECT : 93CV5-9
D.D.H. NO.: CV5
Sheet 4 of 9

INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A B C D	FRACTURE INTENSITY	MINERALIZATION CP BN PY MAG Cc	ASSAYS SAMPLE FROM TO Cu
106.3	109.9	GREY GRANODIORITE DYKE				
		Similar to 90.4, variably pink Kspar altered., fine to medium grained, blocky core with higher				
		degree of fracturing than main phase granodiorite. Has Chataway inclusions @ 107.0 and 109.				
		Sharp contacts. Cut by 2 to 3 mm 30°CA Qtz-green sericite veins				
	@106.4	70°CA 1mm chalcocite seam.			*	
	@108.6	Small fault 17°CA				
109.9	115.1	CHATAWAY GRANODIORITE				
		As above dyke. variably pink altered, but overall weak				
	@110.0	4cm pink Qtz aplite dyke.				
	@111.3	Small 15cm grey granodiorite dyke. 45°CA.				
	@112.5	Fault zone 22°CA. with adjacent sericite-red hematite fractures — about 30 to 50cm wide				
	113.7	Small fault zone 32°CA.				
		Granodiorite becomes increasingly altered toward lower contact				
115.1	117.0	Grey GRANODIORITE DYKE				
		Moderately pink altered and both contacts faulted. 50° upper; 10°CA lower contact with abundant red hematite fractures.				
		Well fractured with red hematite-sericite filled fractures.				
117.0	119.2	CHATAWAY GRANODIORITE				
		Fractured and sericite altered by red hematite-sericite fractures with 30 to 40°CA. Variable Kspar + pink pervasive alteration — moderate				
119.2	121.4	PORPHYRITIC GRAY GRANODIORITE DYKE				
		5 to 7% 3 to 8mm amphibole clots in fine grained matrix. Inclusions of Chataway granodiorite well fractured 7 to 10 fractures/				

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DIAMOND DRILL LOG

PROJECT : 93CV9-9
D.D.H. NO.: CV5
Sheet 5 of 9

INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A B C D	FRACTURE INTENSITY	MINERALIZATION CP BN PY MAG Cc	ASSAYS SAMPLE	FROM	TO	Cu
		Epidote, pink zeolite and calcite 1-2 mm stringers parallel to 10° CA.							
121.4	145.3	CHATAWAY GRANODIORITE				627746	134.5	137.5	334
		K-spar altered and cut by numerous sericite fractures near dyke contact and weakening down hole				627747	137.5	140.5	305
	@121.9	Poorly defined Qtz - chalcocite vein 30° CA.			*	627748	140.5	143.5	268
	@122.4	15° CA 1.5cm Qtz - epidote vein with shearing.				627749	143.5	146.5	283
	@123	discrete Qtz-green sericite 2-3mm veins cut at 25 to 45° CA, some with 2cm sericite-saussuritized green envelopes							
	@124.1	Fault Zone 25° CA green sericite							
	@124.4	Poorly defined chalcocite seam 35° CA			*				
	@125.6	1 to 2mm Qtz-chalcocite vein 90° CA in pink granodiorite							
	@126	Small fault 50° CA sericite - clay - 2 cm seams.							
@128.5	@129.0	Stringy fault - clay - sericite with breccia 30cm. Adjacent wallrock below is intensely silicified and sericite altered - pale grey							
		with only relict qtz and mafic sites recognizable							
@129.9	130.3	Narrow porphyritic dyke - as 119.2.							
		Below this Chataway granodiorite is fresh and unaltered (save for pink zeolite veins with narrow pink K-spar envelopes. ~2/m.) down							
		to 137 m.							
	@134.9	33° CA chalcocite - bornite impregnation of wallrock from 2mm Qtz vein (phyllic) which cuts a pink zeolite fracture.			* *				
		granodiorite shows textural variation in grain size between 134.8 and 143							
	137.5	Small fault 1cm gouge 67° CA.							
137.8	138.3	Pink altered granodiorite with chalcocite - bornite at 137.9 55° CA.			* *				
	@138.1	55° CA chalcocite - bornite fracture 1-2mm wide			*				
	138.3	Fault gouge 51° CA. 20cm wide.			*				
	138.4	1mm bornite on margin of pink zeolite. Vein 44° CA.			*				
	139.3	55° CA 1mm chalcocite fracture							

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DIAMOND DRILL LOG

PROJECT: _____
D.D.H. NO.: _____
Sheet 6 of ____

INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	ALTERATION D	FRACTURE INTENSITY	MINERALIZATION CP	MINERALIZATION BN	MINERALIZATION PY	MINERALIZATION MAG	MINERALIZATION Cc	ASSAYS SAMPLE	ASSAYS FROM	ASSAYS TO	ASSAYS Cu
	@141.5	52° CA 1-3mm chalcocite - bornite fracture with faint pink alteration envelope (photo).						*				*				
	@143.6	47° CA 1-3mm chalcocite - bornite vein with some pink alteration envelope in pink K spar rich						*				*				
		(magmatic segregation?) short interval of granodiorite (photo) - chalcocite segregation						? with no apparent causative fracture 10cm below.								
	@144.3	53° Qtz vein 1-2mm with chalcocite margins (photo)										*				
145.3	153.2	PORPHYRITIC GREY DYKE.														
		Fine grained grey matrix with 5 to 6% black amphibole crystals and clots. Shows weak fracture/vein localized pinking on zeolite														
	@146.9	35° CA fault zone goes to 147.3						fractures veins - envelopes up to 1cm wide.								
		several Chataway granodiorite inclusions 10cm - 70cm.														
		Lower contact displays biotite clots or segregations up to 1.5cm.														
153.2	183.3	CHATAWAY GRANODIORITE														
		154.7 - 155.6 mafic inclusion or mafic dyke														
		Overall lighter colour with slightly lower mafic index with higher biotite content down to 158.														
@158.0	165.0	60 - 70% K spar pink from pink zeolite veins, hematite fractures and several green sericite - qtz veinlets.														
@160.5	160.9	K spar pink interval with 2 40° CA chalcocite and bornite lined fractures						*				*				
		Grey dyke 163.4 - 163.8														
	@165.8	10cm fault with 65° CA red hematite slips														
	@167.2	40° CA chalcocite fracture 1-2mm wide										*				
		Granodiorite becomes distinctly mottled pink at about 168 - a gradual transition, with textural variation to finer grained														
		mafics between 174 and 176. Also local variation in mafic total content as magmatic segregations is evident.														
	@177.4	45° CA chalcocite fracture coating on hematite										*				
	@177.8	34° CA bornite - chalcocite vein 2 to 3mm wide - no evident alteration.														
	@178.7	Sheared sericite vein calcite zeolite vein 5° CA continues to 178.7														

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DIAMOND DRILL LOG

PROJECT: CVS
D.D.H. NO.: 93CVS-9
Sheet 7 of 9

INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A	B	C	D	FRACTURE INTENSITY	MINERALIZATION CP	BN	PY	MAG	Cc	ASSAYS SAMPLE	FROM	TO	Cu
178.5	190.0	Same granodiorite unit — upper part (178.5–183) contains more abundant wallrock pink alteration Kspar from pink zeolite fractures and veins.														
	@ 181.0	1cm small patch of chalcocite (magnetic?)										*				
	@ 182.2	1 to 3mm chalcocite veinlet in Kspar pink interval 55°CA.										*				
	@ 186.2	2 - 1mm chalcocite-bornite fracture fillings 45°CA with no alteration - innocuously magnetic?						*				*				
	@ 192.3	55° CA 1mm chalcocite fracture										*				
	@ 192.7	45°CA 1 to 3mm veinlet displaying Kspar pinking 1% chalcocite + bornite						*				*				
193.3	202.8	MIXED ZONE OF GREY GRANODIORITE DYKE AND CHATAWAY GRANODIORITE														
		Chataway granodiorite inclusions several tens to 80 or 90cm. Minor pink alteration overprints granodiorite														
		Grey granodiorite looks subporphyritic with 3 to 5% black amphibole 3 to 6mm. More highly fractured at about 6 to 8 /m.														
	@ 193.3	60°CA 1mm chlorite-sericite veinlet with sporadic chalcocite - pale alteration envelope ½cm										*				
	@ 197.1	42°CA 1 to 2mm chalcocite fracture with pink envelope 1cm wide.														
*		This mixed interval becomes increasingly more pink K-spar altered near lower contact below 200 m. Pink K-spar rich intervals are also present. Pinking appears to be an alteration related to faults and zeolite veining. It fades off again below 212.0.														
	@ 204.8	Small fault 53°CA 15cm wide														
	@ 206.5	55°CA pink Kspar Qtz Chalcopyrite Vein with abundant sericite Chalcopyrite is 1cm. *												—Local high grade!		
		Adjacent pink alteration is intense.														
	@ 207.5	56°CA small clear zone														
	* *	Several intervals: 205.0 - 205.5, 206.0 - 206.5, 207.5 to 209.0 look like Chataway composition with 7 to 8% mafics, predominantly biotite														
		yet with no apparent contacts to normal Chataway granodiorite. They are more leucocratic.														
	209.9	47° fault and clear zone.														
		Granodiorite becomes grey and pink alteration is restricted to fractures and pink zeolite veins.														

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DIAMOND DRILL LOG

PROJECT: CV5
D.D.H. NO.: 13CV5-9
Sheet 8 of 9

INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	ALTERATION D	FRACTURE INTENSITY	MINERALIZATION CP	MINERALIZATION BN	MINERALIZATION PY	MINERALIZATION MAG	MINERALIZATION Cc	ASSAYS SAMPLE	ASSAYS FROM	ASSAYS TO	ASSAYS Cu
	@214.3	microfault 1cm wide tectonic breccia with red hematite chips. 24°CA. - Kspar pinking ½m below and above.														
	@219.0	4cm tectonic breccia - mylonite 25°CA														
@217.0	218°	blocky core with CA parallel fractures of sericite-chlorite-magnetite														
		Pink envelope fractures and veins have 45 to 60°CA @224.4 40°CA epidote-qtz vein with intense 2 to 3cm pink selvage. Kspar pinking														
225.1	230°	GREY GRANODIORITE DYKE														
		Fine grained dark to medium grey, cut by weak stockwork of bleached fractures. Abrupt contacts. Large ½cm porphyritic Kspars.														
		Blocky core 226.1-227.4 near small fault and pervasive pink Kspar above and below fault for 1m														
	@227.4	45°CA small 5cm fault.														
	@227.9	35°CA chalcedonite - tourmaline marginal to pink zeolite-calcite 3mm vein														
230°	244.3	CHATAWAY GRANODIORITE														
		Typical medium grained granodiorite with 15% 2 to 4mm mafics hornblende dominated, but locally biotite and hornblende subequal amounts. Weak pink mottling due to 30% or more Kspar patches. Large porphyritic Kspars. Generally unaltered - rare Tourmaline in this interval.														
	@240.3	45°CA with 1 to 3mm chalcedonite minor tourmaline marginal to pink zeolite + calcite vein						*			*					
244.3	245.8	GRANODIORITE DYKE														
		Paler colour than other granodiorite dykes. Mafic index still +15%. Upper contact 20°CA.														
		A few bleached fractures. Cut by numerous drusy qtz veinlets.														
245.8	250.3	CHATAWAY GRANODIORITE														
		Cut by 2 to 3 Qtz - green sericite veins 35 to 65°CA with 5cm pink Kspar wallrock alteration														
	247.6	Chalcedonite blebs in intense Kspar altered interval above small fault. 75°CA									*					

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DIAMOND DRILL LOG

PROJECT: CVS
D.D.H. NO.: 93CVS-9
Sheet 9 of 9

INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	ALTERATION D	FRACTURE INTENSITY	MINERALIZATION CP	MINERALIZATION BN	MINERALIZATION PY	MINERALIZATION MAG	MINERALIZATION Cc	ASSAYS SAMPLE	ASSAYS FROM	ASSAYS TO	ASSAYS Cu
	@ 247°	Small fault. 40 to 75° CA sericite clay gouge material														
	@ 246.3	1+, 2mm chalcocite-bornite mineralization associated to grey-green sericite 5mm vein 45° CA 45° CA 10 cm sheared fault							*			*	5cm pink envelope.			
250.8	251.8	GREY GRANODIORITE DYKE														
		Medium grey fine grained with upper contact 65° CA, lower contact 55° CA.														
		Similar to 225.1														
257.8	256.9	CHATANAY GRANODIORITE														
		As before														
	@ 254.4	Red hematite alteration zone 25° CA.														
	256	End of hole														

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DIAMOND DRILL SUMMARY

Project No. CVS
Hole No. 93CVS-10
Page 1 **of** 6.

Property CVS
Claim CVS-6
Section TESTING SUPERIOR SOUTH ANOMALY

Date Started OCT. 16, 1993 D
Date Finished OCT 18, 1993 D
Logged By S. ENNS
Contractor ATLAS DRILLING, KAMLOOPS
Core Stored At CHATAWAY LAKE LODGE CAMPSITE

SUMMARY LOG			ASSAYS					
FROM	TO		FROM	TO	Cu			
0	12.8	OVERBURDEN						
12.8	130.1	CHATAWAY GRANODIORITE, unaltered, coarse grained amphiboles of typical						
		Chataway. Very weakly mineralized by widespread native copper disseminations						
		and sparse native copper on occasional fractures. Major fault zone @ 80 to						
		90m with poorly defined upper limit and well developed tectonic breccia. Main						
		unit punctuated by frequent, clast supported intrusion breccias.						
130.1	192.6	COARSE CHATAWAY AND MEDIUM GRAINED CHATAWAY GRANODIORITE. Coarse phase						
		cut by medium grained equigranular phase as evident from screens of coarse	206	209	367			
		phase and abrupt contacts. Three chalcocite-bornite filled mineralized	209	212	395			
		fractures 60° CA and widespread Trace native copper dissemination occur						
		in this generally unaltered granodiorite interval.						
192.6	257.6	MEDIUM GRAINED CHATAWAY GRANODIORITE — equigranular phase becomes						
		slightly coarser in texture below 214.9. Mostly fresh, unaltered except						
		for short interval near bottom of hole that hosts one of 2 chalcocite						
		veins. Again weak, Trace amounts of native copper are widespread in						
		this interval, but do not approach sub-economic copper grades.						
		The best mineralization although weak appears to be related to the						
		transition from coarse to medium grained equigranular Chataway						
		granodiorite.						

CORE SIZE

FROM	TO	SIZE
12.8	257.6	NQ

TOTAL DEPTH 257.6m
CORE RECOVERY +99%.

COLLAR SURVEY
NORTHING 4125N
EASTING 4675E
ELEVATION 1463m
BEARING 045°AZ
DIP -60°
REFERENCE

DOWN HOLE SURVEY

FOOTAGE	DIP	AZIMUTH
71.9m	-60	039°Az
214.9m	-59¾	039Az

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DIAMOND DRILL LOG

PROJECT: CVS
D.D.H. NO.: 93CVS-10
Sheet 2 of 6

INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A B C D	FRACTURE INTENSITY	MINERALIZATION CP BN PY MAG	Cu	ASSAYS SAMPLE FROM TO Cu
0	12.8	CASING					
12.8		CHATAWAY GRANODIORITE					
		Typical granodiorite with 16 to 18% 2 to 5mm mafics, hornblende dominant. Pink K spar mottling here and there - about 25 to 30%.					
		First 3 boxes of core are blocky and locally fractured					
		Cut by 2 to 3mm pink zeolite veinlets, and some epidote veinlets 40°CA					
		Crushed core (small faults) at 13.7, 15.1, 23.2 at edge of epidote - qtz vein.					
@20.0°	27.6	Weak stockwork of clear zeolite veinlets - results in lower magnetic susceptibility readings					
	@27.8	crushed core from small fault.					
@30'	30.4	small fault - crushed core and clear zeolite veining					
		trace amounts of native copper present throughout					
	@39.8	small fault ~5 cm - broken core.					
@42'	42.4	intrusive breccia with subangular clasts and grey sericite - qtz matrix - clast supported					
	@46.0	small fault 50°CA 10cm					
@46.2	47.2	intrusive breccia - clast supported 1/10 to 10cm subrounded to subangular clasts - same as 42.1.					
		Trace amount of native copper persists to 50m depth.					
	@55	25°CA calcite vein 5mm, with native copper on vein surface and in wallrock several cm.				X	
55.8	57.3	Clay altered sheared intrusive breccia, or fault?					
	@57.4	Malachite stained fracture 76°CA with pink envelope - native copper impregnated 2 to 9cm from vein - hypogene				X	
	@67.0	65°CA 5cm clay sericite gouge.					
@65	67°	Interval shows evidence of foliation with mafics converted to brown muscovite. above fault.					
@75	75.3	Fault zone Sericite-clay red hematite					
	78	10cm fault 45°CA. - sheared granodiorite approaching fault.					

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DIAMOND DRILL LOG

PROJECT : CVS
D.D.H. NO.: 93CVS-10
Sheet 3 of 6

INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A	B	C	D	FRACTURE INTENSITY	MINERALIZATION CP	BN	PY	MAG	Cu	ASSAYS SAMPLE	FROM	TO	Cu
@78.8	79.3	Fault zone clay-sericite hematite gouge and clay altered rocks either side														
		approaching fault by about 1 to 2 m.														
	82	Small fault zone with small faulted sections down to 83.0														
83.0	83.5	Tectonic breccia and fault. 45° CA on red hematite slips - granodiorite shows white, weak pervasive clay														
		alteration from ~ 78 down beyond fault														
83.8	85	Similar sericite rich tectonic breccia with clay-sericite slips 25° and 65° CA														
		Numerous small slips between fault zones														
85.6	87.2	Strongly sheared granodiorite - sericite slips are abundant and granodiorite looks clay altered overall.														
	87.2	Red hematite slips 60 to 76° CA.														
to 90.	88.8	50° CA shearing with red hematite slips 50-65° CA between this and fault ending 87.2														
@80.0	90.0	Weak chloritic alteration of mafics throughout fault system interval. 8														
		Clay filled fractures are abundant below fault system														
@91.4	103.0	Interval is uniform and generally massive with small 1 to 2 cm microfaults with sericite and hematite slips as follows:														
		92.6 50° CA ; 94.7 67° CA ; 94.9 40° CA ; 95.2 82° CA *98.1 45° CA - native copper sericite on slips and into wall rock.														
		102.6 80° CA; 103 72° CA														
		Grey qtz sericite veining and incipient intrusion brecciation continues downhole to 125°. Granodiorite becoming slightly coarser														
		grained in otherwise massive unit that is unaltered even locally by zeolite veins.														
	@104.2	60° CA sericite slips on 2 cm small fault														
@103.5	105.0	incipient brecciation indicated by myriad qtz-sericite fractures and anastomosing veins														
@105.6	107.2	intrusive breccia - subrounded mm to 15 and 20 cm clasts framework supported except near base where 30 cm of breccia is matrix supported.														
		matrix is grey sericite-qtz milled rock material = orthomagmatic origin														
@110.0	110.6	similar orthomagmatic breccia - scattered irregular muscovite veinlets below breccia														
	@117.6	small fault 40° CA 5 cm wide														
	@119.1	small fault 60° CA 5 cm wide with red hematite slips														
	@122.7	40 cm fault 60° CA with red hematite slips.														

139.5 5cm ser epid 80

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DIAMOND DRILL LOG

PROJECT : CVS
D.D.H. NO.: 93CVS-10
Sheet 4 of 6

INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A	B	C	D	FRACTURE INTENSITY	MINERALIZATION CP	BN	PY	MAG	Cc	Cu	ASSAYS SAMPLE	FROM	TO	Cu
		Coarse Chataway granodiorite is cut by numerous (1 to 2 mm) small sericite, chlorite slips averaging 3 to 5/m															
130.1	132.0	Medium grained more equigranular granodiorite with minor fault contacts ½ cm wide - sericite clay 37 and 55° CA (top + bottom respectively)															
		Dyke has mafic content 15 to 17% dominantly amphibole. Rare pink zeolite - calcite veining.															
133.9	143.6	MEDIUM GRAINED GRANODIORITE DYKE															
		Similar composition as Chataway variety. Same unit as 130.1 with 10 cm, 50°CA fault at upper contact and with screens (?) of up to															
		1m wide of coarse Chataway (some with obscure contacts) phases that look like Roscoe phase. - massive units 3 to 5 fractures/m.															
	@139.5	5cm fault with sericite - epidote shearing 80°CA and minor up hole alteration of wallrock by chloritization and sausseritization.															
143.6	149.1	CHATAWAY GRANODIORITE															
		Coarse Chataway phase - massive and unaltered, except near faults. In places this phase looks like Roscoe granodiorite.															
	@148.3	20cm fault with tectonic breccia and sericite, clay, red-hematite gouge 60°CA - weak chloritization of mafics and sausseritization of feldspars															
		extends about 1m up hole from fault.															
		Trace amounts of native copper are common as disseminations in this phase - check sample.												627750	144	147	92
149.1	173.7	MEDIUM GRAINED GRANODIORITE - POSSIBLE DYKE															
		Similar to 133.9 - Chataway variety but with finer texture and darker gray than adjacent Chataway phase. Coarse Chataway blocks occur in interval.															
149.5	177.0	Narrow, less than 2cm pale olive green envelopes of sausseritization of feldspars occur to epidote - qtz seams 1 to 2 mm wide. 60 to 70°CA. About 3 to 5/m															
15.7	160	Clear drusy qtz and clear zeolite veinlets occur subparallel to the CA.															
159.2	160.6	Screen of coarse Chataway granodiorite trace native copper.															
168.6	169.5	Several 70 to 80°CA 1 mm chlorite-sericite-epidote veinlets with faint pinking of wallrock and scattered native															
		copper. One veinlet carries chalcocite. Pink zeolite vein cuts native copper veinlet - check sample * *												627751	168	171	127
		Alteration becomes more intense toward fault at 177.0 as thicker intervals of sausseritization and pink Kspar alteration on fractures															

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DIAMOND DRILL LOG

PROJECT: CVS
D.D.H. NO.: 93CVS-10
Sheet 5 of 6

INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A	B	C	D	FRACTURE INTENSITY	MINERALIZATION CP	BN	PY	MAG	Cu	ASSAYS SAMPLE	FROM	TO	Cu
		173.7 – 192.6 COARSE CHATAWAY GRANODIORITE														
173.5	178°	One or two 70 to 85°CA chlorite pinkish spots trace 1mm fractures with native copper on margin wallrock – faint pinking and faint										X				
		molybdenite at 174.7														
	175.2	70°CA creamy white section in altered interval above fault.														
175°	177°	Dark brown intense alteration with hematite slips 50 to 55°CA. Mafics altered to pale tan sericite. Fault at 177.0														
177°	190	Weakly altered as faint pinking and bleaching of granodiorite along fractures, and several pink zeolite veins 3 to 4 mm wide														
		abundant red hematite-chlorite fractures and small 1 to 2 cm red hematite shears. Check sample											627752	177	180	130
	180.4	30°CA 1 cm red hematite fault.											627753	180	183	70
	182.3	10 cm fault – Several red hematite slips below fault.														
	183°	Small 5 cm fault 55°CA.														
183.3	183.6	2 – 1 mm chalcocite-bornite veinlets in weak pinking altered zone, themselves show weak							X			X				
		wallrock alteration 60°CA														
		Short interval of intrusive breccia 189.2 20 cm wide. Native copper (trace) is widespread														
		and may be locally associated with late zeolite veining outer margins														
192.6	214.9	MEDIUM GRAINED CHATAWAY GRANODIORITE														
@192	192.2	Intrusive breccia														
		Equigranular appearance, very uniform, medium grey, also contains trace native copper as disseminations, in outer vein margins, or on fractures and veins														
		About 1 or 2/m Qtz veinlets at 55 to 65°CA with ½ to 1 cm pink alteration envelopes														
	@200	60°CA Qtz – green sericite vein 3 mm wide with chalcocite-bornite							X			X	627754	200	203	229
		Unit shows several colour variations to dark grey and hornblend porphyritic phase.											627755	203	206	168
		Weak stockwork of pinking from veins continues to end of interval. Native														
		native copper is associated with some of the pinking intervals – check samples –											627756	206	209	367
	210°	Also ½ mm native copper fracture – Sample – 30°CA – sparse but more are present.										X	627757	209	212	395

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DIAMOND DRILL LOG

242.6 TS w/ pink envelopes

PROJECT: CVS
D.D.H. NO.: 93CVS-10
Sheet 6 of 6

INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A	B	C	D	FRACTURE INTENSITY	MINERALIZATION CP	BN	PY	MAG	Cc	Cu	ASSAYS SAMPLE	FROM	TO	Cu
214.9	257.6	CHATAWAY GRANODIORITE MEDIUM GRAINED															
		Coarser grained than unit immediately above, but finer than interval at 143.6, Similar to 133.9 The unit is massive 2 to 3 fract/m.															
	@215.2	Chalcocite - native copper veinlet 40°CA. suggests hypogene origin										*	*				
		Pink envelopes to fractures and thin veins are scarcer < 1/m.															
		Native copper still widespread in trace amounts as disseminations with mafic mineral margins and															
		on rims of magnetite. Local concentrations appear on rare fractures near clear zeolite or pinking envelopes															
		adjacent to pink zeolite veins. May also be associated with mafic inclusions (Check sample 1)											*	627758	218	221	119
	@221.8	Native copper on fracture near mafic inclusion. (Specimen removed.)												627759	221	224	185
		Local weak stockwork of clear zeolite veining here and there												627760	224	227	131
		Pinking on veins is sparse - veins are 60 to 65°CA.															
	@224.1	Small faulted sericite vein 65°CA															
	@225.6	faulted sericite vein 65°CA															
@229.2	240.8	Uniform interval of medium grained, massive granodiorite with sparse pink envelope altered veins or fractures 60 to 70°CA. Trace native copper disseminations throughout															
		Fracturing 3 to 4/m. Local short intervals cut by qtz-sericite (grey) stockwork as incipient breccia or stockwork at 234 to 236.															
		Frequency of pink alteration envelopes increases toward bottom of interval to 3 or 4/m ← From 238° to 247.0															
@240.8	@251.4	As above interval, with increased frequency of pink bleached, altered wallrock to qtz-green sericite and epidote veins. Width of alteration also increases down to 247.0															
	@241.8	60°CA, 2mm qtz green sericite vein with 3cm envelope and trace chalcocite										*					
@244.7	244.9	2 qtz epidote veinlets ½ to 1cm wide with some pink zeolite and 5 to 8 cm wide alteration envelope 60°CA															
		Trace native copper still present at 247.0, 249.2, 254.6															
	@254.5	granodiorite becomes noticably finer grained though it is still a medium grained rock - no abrupt contact to suggest separate intrusion.															
	254.4	native copper in microfracture emanating from? amphibole clot															
	@255.0	Pink zeolite vein 5°CA causes pinking of wallrock, 2 more similar veins at 256.2															
	257.6	End of Hole.															

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DIAMOND DRILL SUMMARY

See p. 5 for boxes taken out

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Hole No. 93CVS-11
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Property CVS
Claim CVS-14
Section MYSTERY LAKE HYDROTHERMAL ZONE

Date Started Oct. 20, 1993 D
Date Finished Oct. 23, 1993 N
Logged By S. ENNS
Contractor ATLAS DRILLING, KAMLOOPS
Core Stored At CHATAWAY LAKE LODGE CAMPSITE

SUMMARY LOG		
FROM	TO	
0	4.3	OVERBURDEN
4.3	30.0	ALTERED BETHSAIDA QUARTZ MONZONITE – moderate pervasive sericite with
		local intense alteration, and short clay altered feldspar intervals. Blocky Core.
		A few qtz-chalcocite-bornite veinlets
30.0	223.9	ALTERED SKEENA QUARTZ MONZONITE – Fault at 37.0 to 38.6m. Dominantly
		moderate to intense pervasive sericite altered with several 5 to 40m intervals
		of pervasive, overprinted Kspar alteration. Sparse Qtz-chalcocite-bornite
		± chalcopyrite ± molybdenite mineralization with 67-80°CA at top of interval
		Significant mineralized intervals: Strong faults are: @ 130.9-132.3
		@83-87 Qtz-chalcocite-bornite veins 67-75°CA ‖ @ 137.7-139.6
		@112-120 Qtz-chalcocite ± molybdenite veins 40-60°CA ‖ @ 150.0-151.2
		@129-141 Qtz-chalcocite-bornite veins 60-70°CA with local high grade veins
		at 130.4-130.7; 136.4; 140.4-140.6 Intense, later sericite alteration
		(Sericite II) is associated with better mineralized veins and overprints
		earlier sericite and Kspar, becoming locally pervasive.
		Quartz vein density (>5/m) extends from 151 – 224 below which it
		declines (as 2 to 5/m) down to a depth of 250
		Below 150m 3, intense, pervasive K-spar altered intervals overprint
		and supercede early sericite (sericite I) in several places and display martitized
		magnetite conspicuously. Sericite II clearly overprints Kspar alteration with
		mineralized veins and locally it is cut by a second, younger, Kspar alteration.
		A significant mineralized interval extends 180 – 209 and includes a few
		high grade Qtz-bornite-chalcocite veins. Between 199.3 and 199.6, 6 qtz-
		bornite-chalcocite vein demonstrate a cross-cutting relationship of mineralization

ASSAYS					
FROM	TO	Cu	Mo	Ag	
112	115	341	66		
118	119	315	33		
130	133	920	353		
133	136	494	30		
136	139	385	28		
139	142	10,000	72	11.2	
142	145.7	624			
149	152	389			
152	155	1307	31		
167	170	540			
171	173	762			
188	191	456			
191	194	221			
194	197	289			
197	200	1620	189		
200	203	1130	191		
203	206	1985	30		
206	209	5120	62		
278	281	413			
281	284	2331			

CORE SIZE		
FROM	TO	SIZE
4.3	300.5	NQ

*CASING LEFT IN HOLE.

TOTAL DEPTH 300.5m
CORE RECOVERY 96.2%

COLLAR SURVEY
NORTHING 8160N
EASTING 9825
ELEVATION 1588m
BEARING 075°Az
DIP -55°
REFERENCE

DOWN HOLE SURVEY		
FOOTAGE	DIP	AZIMUTH
87.4m	-52½°	072°Az
239.6	-52½	075°Az

(More on page 1.1)

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DIAMOND DRILL SUMMARY – CONT'D –

Project No. CVS
Hole No. 93CVS-11
Page 1.1 of 12

Property CVS
Claim CVS-14
Section Mystery Lake Hydrothermal Zone

Date Started
Date Finished
Logged By
Contractor
Core Stored At

SUMMARY LOG			ASSAYS					
FROM	TO		FROM	TO	Cu	Mo		
223.9	225.7	Pink aplite dyke cuts altered quartz monzonite. It is typically fractured						
		and cut by numerous sericite fractures. Minor chalcopyrite and bornite occur	287	290	308			
		as some fractures.	290	293	310			
		Below 215 the quartz veining is generally barren to poorly mineralized in	293	296	433			
		intense Kspar altered intrusive rock.	296	299	750	25		
249°	300⁵	ALTERED BETHLEHEM (?) GRANODIORITE – called Bethlehem on basis of						
		several less altered intervals that suggest 10 to 12% mafic content with substantial						
		hornblende. (It could also be Skeena). Moderate to intense, pervasive sericite						
		and intense, patchy Kspar alteration are present. Local 1–5m wide						
		chlorite-epidote altered intervals occur below 250m. Significant						
		mineralization occurs within a 245/m quartz veining interval from						
		270 to 287 with mineralization between 278 and 284 in qtz-						
		bornite-chalcocite veins 60–75° CA. Another mineralized interval						
		occurs at 296 to 299 as qtz-chalcocite mineralized veins with						
		40–75° CA. Both mineralized intervals are accompanied by						
		intense sericite II overprinting alteration.						
		[The multiple alteration events, quartz veining (especially cross-cutting)						
		and mineralization are important elements of a mineralized hydrothermal						
		system in this part of the property. The magnetic susceptibility of this entire hole generally is in the						
		range 0.01 to 0.05 $\times 10 \times 10^{-6}$ cgs ie: 2 orders of magnitude less than typical Chatham granodiorite]						

CORE SIZE		
FROM	TO	SIZE

TOTAL DEPTH
CORE RECOVERY

COLLAR SURVEY
NORTHING
EASTING
ELEVATION
BEARING
DIP
REFERENCE

DOWN HOLE SURVEY			
FOOTAGE	DIP	AZIMUTH	

Σ Lost Core 2.3 .7 .7 } 3.7 m

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DIAMOND DRILL LOG

PROJECT: CVS
D.D.H. NO.: 93CVS-11
Sheet 2 of 12

INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A B C D	FRACTURE INTENSITY	MINERALIZATION CP BN PY MAG	ASSAYS SAMPLE	FROM	TO	Cu
0	4.3	CASING							
4.3	30.0	BETASAIDA QUARTZ MONZONITE							
		Leucocratic, coarse grained rock with 2 to 3%, 2 to 5 mm black conspicuous biotite.							
		1% 1 to 2mm magnetite/hematite. Pink Kspar forms matrix & 5 to 10% 3 to 5 mm qtz							
		eyes and about 20% creamy to pale greenish plagioclase 2 to 6 mm. Blocky core with rusty intervals. Overall, highly fractured > 10 to 15 fractures/m							
4.9	6.4	Rusty interval of blocky core - Lost Core = 0.7 m - red hematitic limonite on fractures							
TS @ 9.0		Fractures with palmolive green sericite are common							
10.2	11.6	Strongly pervasive altered interval. Creamy white mafics → sericite; feldspars → clay and sericite; martitized magnetite.							
TS @ 10.5	@ 10.8	1cm shear of red hematite 45° CA							
13.0	18.0	Rubbly core - moderate intensity pervasive sericite alteration of biotite and feldspars. Locally alteration							
		is very intense as 5 to 8cm envelope to 45° CA fractures							
	@ 16.7	Qtz hematite streaks 40° CA 2mm to 1cm wide - smooth CA parallel clay sericite fault @ 17.0-18.?							
14.3	18.3	Lost Core = 2.3 m							
18.4	20.1	Quartz monzonite primary mafic minerals still preserved (only weakly altered) Limonite fractures in this interval.							
20.1	28.0	Strong pervasive sericite clay alteration with small fault at 21.3.							
	21.5	3mm Qtz - minor chalcopyrite - bornite veinlet 20° CA			* *				
	20.2	3mm Qtz - chalcopyrite - bornite veinlet 58° CA			* *	627806	23	26	4
		less intensely altered below 27.0, but plagioclase and mafics still affected - alteration localized to structures mainly.							
	@ 29.2	5cm fault 85° CA clay-sericite. with intense local alteration to clay sericite							
26.2	27.1	Lost Core = 0.7 m							
31.6	@ 32.0	10cm fault zone.							
		Overall weak alteration of Qtz Monzonite to partial biotite chloritization and plagioclase sericitization - interrupted by local, structurally controlled							
		short intervals (10 to 30cm wide) of intense alteration adjacent to fractures about 2 to 3/m.							
30.0	223.9	SKEENA QUARTZ MONZONITE - gradational contact of very similar phitonic phases. (They may actually both be the same).							

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Σ Lost Core .5 .7 2.6 1.4 .8 .5 .5 .2 .4 .5 .7 1.0 (24.5m)

DIAMOND DRILL LOG

PROJECT: CVS
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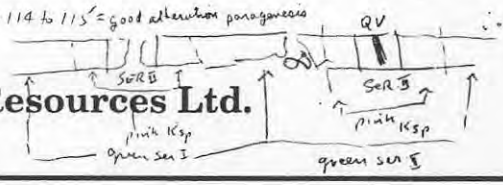
Sheet 3 of 12

INTERVAL FROM	INTERVAL TO	DESCRIPTION	GRAPHIC ALTERATION Sev A	B	C	D	FRACTURE INTENSITY	MINERALIZATION CP	BN	FY	MAG	Cc	MoS2	ASSAYS SAMPLE	FROM	TO	Cu
	@36.6	Qtz - hematite minor chalcocite mineralized vein 80°CA 5mm wide				10						*					
@ 37.0	38.6	Fault/Zone with intense alteration to clay sericite															
@ 39.6	40.8	Lost Core = (0.5m).															
@ 44.8	45.7	Lost Core = (0.7m) some rubble core, rest blocky															
@ 46.9	50.0	Lost Core = (2.6m) rubble and blocky core				20											
		The hornblende content increases below about 32.0 to give a higher total mafic content more typical of Skeena Qtz monzonite															
@ 50.0	52.4	Lost Core = (1.4m) blocky and rubble core															
@ 53.3	54.1	Lost Core = (0.8m)															
@ 54.4	55.5	Lost Core = (0.5m).															
	@52.7	5cm Qtz chalcocite bornite high-grade vein 85°CA within intense, pervasive sericite of short, altered interval						*				*					
	@55.9	1cm Qtz - specularite vein 30°CA															
* →		Lost Cores: 56.7-57.6 = (0.9); 67.0-68.9 = (1.2); 68.9-69.3 = (0.4); 69.3-70.7 = (0.5); 72.8-73.8 = (0.7); 73.8-75 = (1.0)															
		Unit is weakly altered, mainly along local fractures for 10 to 30cm down to 61.0. Blocky core persists - attests to high fracture density															
	@59.7	Qtz - minor chalcopyrite vein 2cm wide 90°CA piece of ground core - intensely sericite altered 40cm															
	@ 61.0	Alteration intensity increases (on average) to moderate pervasive sericite of feldspars. Blocky Core - highly fractured. Sericite? is a bright green.															
		Several brown stained hematite quartz vein 62 to 69.0 75 to 80°CA.				40											
@ 66.2	66.5	Small aplite dyke - contacts 85°CA with hematite stained streaks parallel to CA. Adjacent quartz monzonite highly altered - sericite pervasive.															
@ 66.2	66.7	Fault Zone - 20cm of clay - sericite gouge, breccia and rubble core - lost core interval															
@ 68.9	72.7	Interval of lost core (see above *) consisting of altered quartz monzonite and 4m more 10 to 20cm pink aplite injections. Qtz monzonite is pervasively moderate sericite altered, locally mafics are recognizable, locally 10 to 30cm intervals are intensely sericite altered about fractures.															
	@71.3	80°CA 1cm sheared Qtz - sericite MoS_2 - chalcocite? vein				50						*	*				
	@76.6	Clay sericite 10cm fault zone. 80°CA.															
	@76.7	Qtz-Hem-chalcocite vein 2mm 74°CA										*					

Note ②: @ 114 to 115' = good alteration paragenesis



∴ Sequence is: Ser I → Ksp → Ser II

Note ① QV 1-2/m Weak
2-5/m Mod
>5/m Intense

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DIAMOND DRILL LOG

PROJECT: CVS
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See Note ①

INTERVAL FROM	INTERVAL TO	DESCRIPTION	GRAPHIC ALTERATION Ser A	Ksp B	C	D	FRACTURE INTENSITY	QV	MINERALIZATION CP	BN	PY	MAG	Cc	Mo	ASSAYS SAMPLE	FROM	TO	Cu
/	@ 77.1	Qtz - hematite vein																
	@ 77	Qtz veins with associated, local hydrothermal wallrock alteration (2 to 20 cm wide) start to become significant. Density, 1 to 2/m. Local pinking adjacent to																
		Qtz veins 1 to 2 cm wide attest to significant hydrothermal alteration CA = 47 to 75° CA 60																
		See graphic for hydrothermal alteration monitor.													627844	77	80	28
	@ 83.3	Qtz MoS_2(?) vein ½ cm 67° CA												*	627845	80	83	11
	@ 84.3	Qtz chalcopyrite (sparse) vein ½ cm 75° CA							*						627846	83	86	25
	@ 87.2	Qtz - chalcocite - molybdenite vein ½ cm 67° CA											*	*	627847	86	89	8
	@ 87.3	Fault zone - crushed sericite - clay - breccia with fragment of Qtz - chalcocite - MoS_2 70											*	*				
@ 92.1	93.1	Intensely altered interval with qtz-muscovite veinlets and hematite-quartz veinlets cross cutting ~70° CA - but unmineralized.																
	@ 92.6	Qtz chalcocite (very fine grained) vein ½ cm, 80° CA with local 2 cm sericite clay gouge adjacent																
	@ 100°	1 cm Qtz - chalcocite - Mo (? very fine grained) vein - affected wallrock 20 to 30 cm either side												*				
		Average alteration is moderate, caused by sericite altered, structurally controlled wallrock effects marginal to fractures and discrete																
		quartz veins. Alteration often coalesces but less altered remnants where chloritized 80 mafics are recognizable, remain.																
		Several barren Qtz veins 103 to 106, they increase frequency below 107. to 1 or 2/m. - Very intense short sericite altered intervals.																
		Remnant primary biotite 104 to 104.5 and 104 to 106.3. in sericite altered rock.																
	@ 105.3	Qtz - hematite vein 65° CA																
		Where sericite alteration is intense only specks of martitized magnetite to hematite survived in the mass of green sericite.																
* see Note ②		Two types (generations) of sericite appear present. The earlier is a pervasive more widespread 90 associated with inner envelopes of pink Kspar; the second is a																
		strong, localized overprint on the former two alterations (- sample 103) Later is structurally controlled.																
	@ 112.7	½ cm Qtz chalcocite vein 55° CA											*					
	@ 114.0	1 cm Qtz - chalcocite - Bornite vein 45° CA } intense sericite alteration and weak Qtz stockwork							*				*					
	@ 114.3	2 cm Qtz - Chalcocite vein 80° CA. }							*				*					
	@ 116.7	small fault - clay sericite rubble - adjacent clay altered feldspars.																
	@ 119.1	½ cm Qtz - Bornite - Chalcocite vein 50° CA							*				*					

Note 3 All mineralized veining in this hole display associated hydrothermal alteration - as intense sericite envelopes.

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DIAMOND DRILL LOG

5 Boxes 20-24 129.0 - 158.9
6 " 28-33 176.7 - 211.1
3 " 45-47 275.5 - 293.0

PROJECT: CVS
D.D.H. NO.: 93CVS-11
Sheet 5 **of** 12

INTERVAL FROM	INTERVAL TO	DESCRIPTION	GRAPHIC ALTERATION (Ser A, Ksp B, C, D; FRACTURE INTENSITY; QV)	MINERALIZATION CP	BN	PY	MAG	CC	Mo	ASSAYS SAMPLE	FROM	TO	Cu	Mo	Ag
	@120°	3cm Qtz-ribbon Mo-chalcocite? vein 50°CA													
107°	125°	Altered pink and green (Ksp-sericite) interval with								627807	112	115	341	66	
		variable qtz veining density (generally < 5/m) several								627808	115	118	36	4	
		sericite 1 to 2cm shear zones 60°CA here and there	110							627809	118	121	315	33	
↓	124.2	½cm Qtz-chalcocite vein 60°CA						✗		627810	121	124	73	2	
↓		The smaller qtz veins although associated with alteration are	for the most part barren.							627796	124	127	155	7	
		They display 60 to 75° CA and are 3 to 10 mm wide.								627797	127	130	89	0	
130.4	130.7	Quartz Bornite Chalcocite high grade vein 65°CA - intense	sericite alteration	✗				✗	✓	627798	130	133	920	353	
	130.8	2 Qtz Bornite Veins 1cm wide 60°CA - adjacent to fault		✗				✗		627799	133	136	494	30	
130.9	132.3	Fault Zone of intensely sericite altered crushed quartz monzonite with clay gouge 35°CA and	130							627800	136	139	385	28	
		Mineralized chalcocite-Bornite-Mo? qtz veins caught up in fault zone.		✗				✗	✗	627801	139	142	10,000	72	11.2
	132.9	35°CA ½cm Qtz chalcocite vein		✗				✗		627802	142	145.7	624	7	
	132.5	60°CA 1cm Qtz chalcocite-bornite veins (-two)		✗				✗		627803	145.7	149.0	96	30	
	133.0	1cm 45°CA Qtz-spondii chalcocite-bornite vein		✗				✗		627804	149.0	152.0	389	10	
	133.3	2cm 30°CA chalcocite-bornite vein	130 FAULT ZONE	✗				✗							
135.3	135.6	2 - 2cm Qtz chalcocite - bornite veins 65°CA		✗				✗			priority samples				
	136	1cm Qtz-chalcocite bornite vein 62°CA		✗				✗							
	136.4	1cm high grade bornite-chalcocite vein 80°CA	FAULT ZONE	✗				✗							
137.7	139.6	Fault Zone - Sericite-clay gouge and tectonic breccia with chalcocite	140												
		Qtz fragments													
139.6	139.8	3 1 to 2cm Qtz chalcocite-bornite veins 45 to 64°CA.													
		intense sericite alteration	FAULT ZONE												
140.4	140.6	15cm Qtz chalcocite-bornite 70°CA high grade vein - host		✗				✗							
		with semi-massive sulphides in intense sericite altered rock host	150												

Lost Core 5

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DIAMOND DRILL LOG

PROJECT: CVS
D.D.H. NO.: 93CVS-11
Sheet 6 of 12

INTERVAL FROM	INTERVAL TO	DESCRIPTION	GRAPHIC ALTERATION Ser A	Ksp B	C	D	FRACTURE INTENSITY	QV	MINERALIZATION CP	BN	PY	MAG	Cc	Mo	ASSAYS SAMPLE	FROM	TO	Cu	Mo
	@141	Several small sericite shears - one has 2% bornite grains								*									
@141.6	142	Small fault - sericite-clay rubble																	
		Below fault is intense pink pervasive Ksp alteration with minor																	
TD	144.3	sericite (Sericite II) over printing. Primary magnetite grains typically martitized																	
		to hematite spots - most conspicuous on Ksp altered intervals. Qtz																	
		Sericite veins 60 to 70°CA. A few are CA parallel.																	
@144.5	@144.7	Very intense Qtz - Sericite altered interval - adjacent to fault - silicification on local scale.																	
	@144.7	30cm fault zone - probably more lost in run 144.5 — 145.7 Lost Core = 0.5m																	
		with bornite-chalcocite mineralization as faulted Qtz vein fragments.								*			*		627805	152°	155.5°	1307	31
	@146.8	fault zone 25 to 30cm 20°CA in intense Ksp altered interval				150									627811	155	158	205	1
	@148.7	Several Qtz - calcite veins with black graphite slips 75-80°CA													627812	158	161	129	1
@150°	151.2	Fault Zone with clay-sericite gouge and chalcocite - bornite								*			*		627813	161	164	276	1
		vein fragments in breccia													627814	164	167	79	<1
	@151.4	2-1cm Qtz-chalcocite-bornite veins 80°CA (sparse)								*			*		627815	167	170	540	<1
	@151.5	same - single vein				160				*			*		627825	170	171	24	<1
	152.4	10-15°CA small fault													627816	171	173	762	<1
	153.7	Small fault with 50°CA 1cm Qtz chalcocite - Mo? veins ad-								*			*	*	627817	173	176	56	1
		jacent to short silicified interval 10cm wide													627818	176	179	151	1
	154.8	Lost Core between 154.8 — 156.7 = 0.5. Fall back semi-													627819	179	182	161	1
		massive chalcocite-bornite from 140.4. Adjacent to 20cm				170									627820	182	185	287	29
		silicified interval.													627821	185	188	182	3
		Martitized magnetite very conspicuous in Ksp altered quartz													627822	188	191	456	9
		monzonite ≃ 2-5% disseminated. 1 to 2mm grains													627823	191	194	221	87
157.1	157.4	2-½cm Qtz - chalcocite - bornite veins 80°CA								*			*		627824	194	197	289	7

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DIAMOND DRILL LOG

PROJECT : CVS
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INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A	B	C	D	FRACTURE INTENSITY	MINERALIZATION CP	BN	PY	MAG	Cc	Mo	ASSAYS SAMPLE	FROM	TO	Cu
@151.0	165.0	Qtz veining density is variable but exceeds 5/m, locally as high as 10/m with short intervals of pervasive silicification below 151 m. Qtz monzonite is intensely altered by Kspar with structurally (fracture and qtz vein) controlled Qtz-sericite overprint, locally associated with weak mineralization.															
	@160.8	Several small fault zones - sericite clay crush zones 2 to 5 cm wide 75°CA															
@160.8	161.2	Silicified (pervasive) interval															
	@161.5	6 to 7 Qtz veins - barren (some incipient)															
@161.9	162.2	3 - 2mm to 1cm Qtz veins with sericite overprint envelopes and bornite-chalcocite (minor) 80° CA							*		*						
	162.8	Small 10cm fault zone															
	163.1	Fault Zone 40 cm of sericite - clay.															
		Lost Core 163.4 - 164.9 = 0.3															
	168.0	2 - ½ cm Qtz bornite and chalcocite veins 75 to 80°CA. 60°CA Qtz bornite vein crosscuts.							*		*						
	168.8	Small 10cm fault zone (or sheared vein?) with silicified 5cm interval and 85°CA 2cm Qtz - bornite chalcocite vein							*		*						
		Most Qtz veins in this region have a 60 to 80°CA															
	165.3	65°CA 5cm sheared sericite - clay gouge vein															
165.5	166.0	Mostly silicified intervals 5 to 20cm wide.															
(Alt'n)		At about 174 - Kspar overprinting of earlier sericite I alteration is incomplete and therefore weakening? so that primary texture is more discernible.															
(Alt'n)		At around 179 sericite II overprinting on Kspar alteration becomes more intense and with it weakly mineralized Qtz veins become more abundant.															

ALTERATION PARAGENESIS:

MAINLY STRUCTURAL CONTROL { KSP II – least developed; SER II

STRUCTURAL + PERVASIVE { KSP I; SER I

MIN

MIN

MIN

TIME →

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DIAMOND DRILL LOG

ABBREVIATIONS:
Bn = Bornite
Cc = Chalcocite
Cp = chalcopyrite
Mo = molybdenite.

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INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A	B	C	D	FRACTURE INTENSITY	QV	MINERALIZATION CP	BN	PY	MAG	Cc	Mo	ASSAYS SAMPLE	FROM	TO	Cu	Mo
	@179.0	45° CA 1cm Qtz-bornite vein				180				x					627826	197	200	1620	189
	@180.9	57° CA 1 to 1½ cm Qtz-bornite-chalcocite vein in & intensely altered								x			*		627827	200	203	1130	191
		rock with recrystallized Qtz to 1cm in size	SER II + SER I												627828	203	206	1985	30
	@181.4	Small 5cm clay sericite gouge 75°CA.													627829	206	209	5120	62
	@181.9	10cm silicified Qtz-chalcocite fracture filled interval											*		627830	209	212	77	1
182.4	182.6	20cm fault zone-clay-sericite				190									627831	212	215	83	2
	182.6	Qtz chalcocite-Mo? vein 80°CA displays sericite II associated over-											*	*	627832	215	218	84	6
		print or pervasive Kspar													627833	218	221	48	<1
184.6		Interval of sericite II > Kspar and Qtz-stockwork with 8													627834	221	224	165	1
(alte-Min)		mineralized veins - some mineralized veins cross cutting each other 45 to 75° CA																	
@188.0	@188.4	Fault Zone with black graphite slip.				200													
187	200	Mineralized veins below 187 consistently display Kspar pink																	
		envelope as Ksp II (structurally controlled). That overprinted Ser I																	
		Ksp I and Ser II alterations. Qtz veins are variably mineralized																	
		from sparse to high grade. Disseminated bornite-chalcocite																	
		occurs in very intensely altered Ser II with some silicification				210													
		alteration @ 199.9. Mineralized Qtz veins are generally high angle																	
		45 to 75°CA, sometimes cross-cutting.								x									
	@190.8	54° CA Qtz-Bn 2cm																	
	@191.7	45° CA Qtz-Cc-Mo 2cm.											*	*					
	@193.9	45° CA Qtz Bn-Cc ½cm				220				x			*						
@194.8	195.0	2 veins Qtz Cp Bn and Qtz Cc 65 and 45° CA @ 1cm wide																	
	@196.9	45° CA Qtz Cc Bn ½ cm pink 1cm Ksp. envelope over sericite II								x			*						
	@197.7	Sheared veins 2cm Qtz Cc Bn high grade vein 85° CA								x			*						

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INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	ALTERATION D	FRACTURE INTENSITY	MINERALIZATION CP	MINERALIZATION BN	MINERALIZATION PY	MINERALIZATION MAG	MINERALIZATION Cc	MINERALIZATION Mo	ASSAYS SAMPLE	ASSAYS FROM	ASSAYS TO	ASSAYS Cu
	@197.9	1cm Qtz Cc Bn vein 65°CA - no Ksp. pink envelope alt'n.							x			x					
@199.3	199.9	6 Qtz-Bn-Cc veins ½ cm wide 60 to 75°CA some cross-cutting (2 times) and							x			x					
		disseminated Cc-Bn @199.9. One Qtz-Cc-Bn-Mo vein 15°CA															
@200.0	209.0	Generally sericite II > Ksp alteration with high density of							x			x	x				
		white diffuse Qtz veins 40 to 87°CA - some cross-cutting up to															
		10/m. Mineralized by Cc, Bn and some as Qtz Mo veins															
		Two high grade veins of Cc-Bn at 207.6 and 208.6															
		Small sericite-clay gouge faulted zones also carry bornite							x			x	x				
		grains and fragments of qtz-Bn esp 203.8-209.0															
203.8	204.0	Fault zone															
208.7	208.8	Fault zone clay sericite															
		Below 209 primary texture is more discernable - having been altered															
		mainly by sericite I and Kspar I pervasive alteration and displaying															
		Kspar overprint on sericite I.															
@211.0	211.3	Fault zone 60°CA clay-sericite															
		Martitized magnetite → hematite is difficult to distinguish from bornite for fine grain size.															
	@213.5	15 cm clay sericite fault 80°CA with ½ cm Qtz Cc vein in lower margin										x					
@215.8	216.8	good examples of sericite II overprint on Kspar pervasive alteration. Sericite II															
		associated with Qtz Cc-Bn veins and structurally controlled. Predominantly Kspar pervasive altered															
@216.8	237.9	Mainly pervasive Kspar altd Skeena quartz monzonite with minor sericite overprint that is															
		structurally controlled. Martitized mafic sites and magnetite grains mistakenly similar to bornite															
	*	Qtz veining persists but was largely barren. Much weaker mineralization.															
	@223.7	Bornite-chalcosite fracture 70°CA							x			x					

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DIAMOND DRILL LOG

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INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION Ser A	ALTERATION Ksp B	ALTERATION Chl C	ALTERATION D	FRACTURE INTENSITY	QV	MINERALIZATION CP	BN	PY	MAG	Cc	ASSAYS SAMPLE	FROM	TO	Cu
223.9	225.7	PINK APLITE															
		Cut by rare qtz-sericite veins one with chalcopyrite @ 224.2.				230			x								
225.7	249°	ALTERED SKEENA QUARTZ MONZONITE															
	@ 226	Moderate to intense sericite and Kspar pervasive alteration - mineralization much weaker.															
	@ 226.1	2cm Qtz - chalcopyrite vein 60° CA - sparse min enrichment			Silicification				x								
	@ 227.4	½ cm Qtz - chalcopyrite vein 64° CA - sparse mineralization.				240			x								
	@ 227.8	80° clay sericite shear															
@ 228	237.7	Dominantly Kspar pervasive with subordinate sericite alteration with largely unmineralized quartz veins 40 to 70° CA. Local primary texture readily recognizable. Several Qtz Hematite veinlets 70 to 80° CA												Kspar I alteration overprinting Sericite			
@ 237	238°	Silicification with qtz overgrowths - sparsely mineralized.				250											
	@ 235.7	2cm pink aplite dyke 50° CA.															
@ 237.9	249°	Altered quartz monzonite - predominantly Kspar I alteration with local Sericite II patches and rare Ksp II veinlets intervals adjacent to Qtz-Cc-Bn vein (envelope = 1 to 2 cm wide) @ 242. 70 and 90° CA								H			4				
		The rock type (where primary textures more recognizable) could be Bethlehem granodiorite. Relict mafic content appears to be 10 to 12% in less altered intrusive.				260											
	@ 242.9	Qtz hematite vein 80° CA - sheared 5 cm wide also 243.8 1cm 70° CA															
@ 250	250.5	Crushed tectonic breccia - fault zone															
		Small faults at 246.9 40 cm; 248.5 15 cm, rubble section				270											
		247 to 257 is lightly fractured with sericite lined fractures															

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INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A	B	C	D	FRACTURE INTENSITY	MINERALIZATION CP	BN	PY	MAG	Cc	ASSAYS SAMPLE	FROM	TO	Cu	Mo
249°	300.5	ALTERED BETHLEHEM GRANODIORITE (?)															
		Weaker hydrothermal alteration is dominantly chloritized mafics,															
		sassuritized feldspars with substantial shorter intervals of															
		pervasive sericite and Kspar alteration. Mafics total 12 to 14%															
		2 to 4mm chloritized amphiboles and biotite plus 2 to 3%															
		8 to 10mm chloritized amphiboles (poikilitic). Propylitic alt'n															
		Skeena quartz monzonite injections(?) may be present (lower total mafic)															
		with stronger alteration appearance as at 255 to 257.6; 262 to 264. Or															
		these may be more intensely altered Bethlehem ?)															
	@263.5	fault 20cm 80°CA. intense Kspar alt'n with sericite II overprint	262 to 265.1 – overprints propylitic assemblage										with recognizable mafics				
	@264.1	fault 20cm. 75°CA											627835	272	275	43	1
		Weak propylitic alteration extends 249 – 254, and 258 – 262, and 265 – 269											627836	275	278	37	1
		Well developed 267.5 to 269 with epidote stringers and patches plus chlorite											627837	278	281	413	2
x 7.7	269.7	streaky Qtz – hematite fractures and veins											627840	281	284	2330	7
	@270	Below 270 alteration intensity increases to Kspar with sericite II overprint and											627841	284	287	160	10
		sporadic chalcopyrite mineralized qtz veins. @ 273.5 (see graphic) Qtz vein frequency							x			x	627838	287	290	308	1
		increases.											627839	290	293	310	1
	@278.5	½ cm Qtz Cc Bn vein 65°CA							x			x	627842	293	296	433	3
	@279	½ cm Qtz Cc Bn Cp vein 65°CA						x	x			x	627843	296	299	750	25
	@280.3	1cm Qtz Cc Bn 65°CA sericite II overprinting Kspar alt'n							x			x					
@281.5	283.5	strong sericite II overprint and 10 Qtz-Cc Bn veins ½ to 2cm wide							x			x					
		with narrow high grade section 282.7 to 283.1. 60 to 75°CA. Contact is Kspar altered intrusive							↓			↓					
	@284.7	55°CA 1cm Qtz vein with minor Cc										x					
	@285.4	Faulted Qtz – calcite vein 40°CA.															

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DIAMOND DRILL LOG

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minor K spar II overprints sericite II lowering along fractures.

INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION SER A	ALTERATION Kop B	ALTERATION Chl. C	ALTERATION D	FRACTURE INTENSITY	QV	MINERALIZATION CP	MINERALIZATION BN	MINERALIZATION PY	MINERALIZATION MAG	MINERALIZATION Cc	ASSAYS SAMPLE	ASSAYS FROM	ASSAYS TO	ASSAYS Cu
285	300.5	Kspar pervasive alteration is overprinted by sericite II															
TS@282.6		intense alteration associated with Qtz chalcocite-barnite				280											
		vein mineralization. Local remnants of chlorite-epidote															
		altered granodiorite (generally 1 to 2 m intervals) are present.															
		Mineralized veins are 45 to 85° CA w/ high angle most common															
		Best interval is 296 to 299 with 6 veins 40 to 75° CA. with							*				*				
		best concentration around 298.1 in sheared sericite material				290											
		containing fractured Qtz-Cc Bn vein material. Mineralization															
		is strongest in association with sericite II Qtz veins.															
	@287.5	20cm sericite clay gouge fault.															
	@300°	Remnant of chlorite-epidote altered intrusive.															
	300.5	End of Hole.				300											
	@293.6	2cm Qtz-Cc vein 35° CA							*				*				
	@295.4	2-½cm Qtz-Cc-Bn vein 60 and 50° CA							*				*				
		LEFT CASING IN THE HOLE															

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DIAMOND DRILL SUMMARY

Project No. CVS
Hole No. 93CVS-12
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Property CVS
Claim CVS-14
Section Mystery Lake hydrothermal system and weak chargeability anomaly on Line 82N
Date Started OCT. 24, 1993 D
Date Finished OCT 26, 1993 N
Logged By S. Ennis
Contractor Atlas Drilling, Kamloops
Core Stored At CHATAWAY LAKE LODGE CAMPSITE

CORE SIZE		
FROM	TO	SIZE
16.7	175.9	NQ

TOTAL DEPTH 175.9
CORE RECOVERY 86 %

COLLAR SURVEY	
NORTHING	8240N
EASTING	1148E
ELEVATION	1584m.
BEARING	075°Az
DIP	-55°
REFERENCE	

DOWN HOLE SURVEY		
FOOTAGE	DIP	AZIMUTH
71.9m	-56°	075°Az

SUMMARY LOG			ASSAYS					
FROM	TO		FROM	TO	Cu	ppm Mo		
0	16.7	OVERBURDEN						
16.7	28.0	ALTERED BETHLEHEM GRANODIORITE - altered by intense pervasive sericite						
		and clay with minor qtz veins. Unmineralized						
28.0	59.7	PINK APLITE - altered patchy pervasive sericite intervals and intruded						
		by several pink feldspar porphyry dykes that sericite altered adjacent						
		aplite. Unmineralized	74.'	77.'	495	16		
60.0	70.1	ALTERED SKEENA QUARTZ MONZONITE - sericite pervasive altered	77.'	81.'	846	4		
		weak to moderate and with sparse, minor chalcocite molybdenite						
		fractures.	117°	118°	1280	30		
70.1	85.5	ALTERED PINK APLITE - variably sericite pervasive altered, contains						
		fractures partly coated with chalcocite and bornite as weak mineralization	65-75°CA					
		Several narrow, pink feldspar porphyry dykes cut this unit.						
85.5	111.6	PINK FELDSPAR PORPHYRY - relatively unaltered, may be small stock? It						
		resembles a medium grained equigranular intrusive rock at 100m. It						
		contains scattered blebs and partial fracture coatings of chalcocite-bornite						
111.6	175.9	FELDSPAR BIOTITE, CROWDED FELDSPAR QUARTZ PORPHYRY DYKES SERIES						
		some with felsite chill margins & little mineralization. An altered feldspar						
		quartz porphyry 151.5 - 165 displays intense sericite alteration and weak						
		K spar fracture controlled alteration, presence of 2-5/m quartz veins and						
		minor mineralization as a small bornite vein and chalcocite stringers 30°CA						
		at 153.5. The poor core recovery near the bottom of the hole obscures						
		the porphyry dyke distribution and age relationships.						
		This hole intersected an intrusive dyke complex, possibly within, or near the hydrothermal system core region.						

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DIAMOND DRILL LOG

LC 2.4

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INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION SER A	B	C	D	FRACTURE INTENSITY	MINERALIZATION CP BN PY MAG	ASSAYS SAMPLE	FROM	TO	Cu
0	16.7	CASING										
16.7	28.0	ALTERED BETHLEHEM GRANODIORITE										
		Blocky core to 22.3.										
		Intense sericite altered intrusive with small faults and cut by				100						
		Qtz veining ~1/m. Mafics completely replaced by sericite except at										
		bottom 1 m interval where part chlorite survived. Feldspars completely altered to green sericite. Mustitized magnetite dissemination. Clear calcite veins 2m 65°CA.										
	@22.7	Small fault 60°CA										
* @23.2	23.8	Fault zone - clay sericite gouge 65 to 70°CA.		casing								
@24.7	25.0	Crush zone w/small fault				20						
26.2	26.4	Fault zone 77°CA										
		Lost Core: 17.1 - 22.3 = 2.4m										
28.0	59.7	ALTERED APLITE										
		Very fractured core - blocky.				30						
		White, pale pink and in places, patchy pale greenish colour, cut by red										
		hematite fractures and numerous sericite fractures. Aplite										
30.5	33.4	intruded in places by white clay altered feldspar porphyry - from 30.5										
		to 33.4. Dominantly alteration is sericite in intervals (20 to 50cm)										
		and clay on feldspar phenocrysts with sericite cores on feldspars. Pink				40						
		intervals may be less affected by alteration										
40.8	44.2	Pink Feldspar porphyry } feldspars moderately sericite - clay altered - there										
46.1	52.3	" " " } probably intrude the aplite + have altered										
		adjacent aplite to intense, palmolive green sericite		FELDSP PORPH DYKE								

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DIAMOND DRILL LOG

LC 10.5

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INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION SER. A	B	C	D	FRACTURE INTENSITY	MINERALIZATION CP	BN	PY	MAG	CC	Mo	ASSAYS SAMPLE	FROM	TO	Cu %	Mo %
		Faults @ 39.1 - 39.3 ; 43.1 - 43.2 ; 45.0 - 45.1				50												
	@ 40.6	55°CA 1 mm. fracture controlled chalcocite - bornite							*			*						
		Lost Core: 40.8 - 59.7 = (10.5 m)																
54.2	55.6	? PINK FELDSPAR PORPHYRY. with feldspar phenocrysts altered to		FELDSP PORPHY. DYKE														
56.7	59.7	) sericite and clay. @ 58.1 - Mo fracture 1 mm 54°CA											*					
	56.9	Piece of feel back aplite with fracture of chalcocite - depth unknown.		FELDSP PORPH. DYKE		60												
59.7	60.0	FINE GRAINED BIOTITE-RICH GRANODIORITE DYKE.																
		Biotite content 20%, - some looks altered to sericite as also do green feldspars altered partly to sericite. Equigranular, fractured dark.				70												
60.0	70.1	ALTERED SKEENA QUARTZ MONZONITE																
		Altered near contact with dyke. Feldspars altered to green sericite down to 61.7. Less altered 61.7 to 62.7 with primary biotite - 8 to 10% primary mafics.																
	@ 65.8	1 mm Chalcocite - chalcopyrite fracture				80		*				*						
	@ 66.3	10 cm pink aplite with Mo fracture											*					
	@ 68.9	45°CA. 2 mm Qtz chalcocite vein										*						
	@ 60.2	Small fault zone																
70.1	85.3	PINK APLITE				90												
		Variably sericite altered fractured aplite with several short												627848	74.1	77.7	495	16
		altered feldspar porphyry dyke intervals < ½ m. Cut by numerous												627849	77.7	81.1	846	4
		dark chalcocite-bornite fractures some with Mo between 74.1 and 81.1 65 to 75°CA							*			*	*					

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DIAMOND DRILL LOG

LC 6-8

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INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A	B	C	D	FRACTURE INTENSITY	MINERALIZATION CP	BN	PY	MAG	C	Mo	ASSAYS SAMPLE	FROM	TO	Cu
		Lost Core 74.1 - 75.6 (0.9); 77.7 - 81.1 (3.3)															
	74.3	Small fault 50°CA.															
	75.8	70°CA with some specks of bornite in clay gouge							✓								
	77.9	Red hematite streaks 50 to 85°CA															
	83.5	Small fault. 80°CA															
84.6	84.9	Pink feldspar porphyry with white clay altered feldspars ~ 10 to 15% with disseminated Cp Bn						✓	✓								
		aplite adjacent to feldspar porphyry is intensely sericite altered.															
85.5	111.6	PINK FELDSPAR PORPHYRY A															
		Highly fractured with white clay altered feldspars some with															
		sericite cores, others sericite altered. Matrix is pink aplite															
		Lost Core 86.6 - 93.9 (2.6)															
	@92.0	Disseminated chalcocite blb. also @96., 98.3, 99.0 in sericite altered rock.										✓					
		Sericite fractures cut the porphyry -															
	@95.7	small fault. 10 cm															
	@98.5	and 98.6 small faults 5 cm 50°CA. @98.6 Mo with graphite slip											✓				
		This unit is locally highly sericite altered in fractured and sheared intervals											✓				
		but becomes less altered at 100.0m with presence of 1% black biotite flakes. At 101 intrusive becomes altered to feldspar porphyry															
		Another less altered (with identifiable black biotite flakes) interval in 105° where it resembles a medium grained equigranular intrusive.															
		These are the same units as no sharp contacts are evident; instead the variations appear to be caused by alteration alone.															
@106.0	111.0	Unit displays sparse 1/2% black biotite flakes 1 to 4 mm. and displays local variations in alteration intensity as white, clay-altered feldspa															
	@106.8	1 cm x 2 mm chalcocite blb.										✓					
	@108.	1 mm slip of chalcocite and trace chalcopyrite						✓				✓					
		Lower contact is 5 cm fault.															

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DIAMOND DRILL LOG

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INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION SER A	B	C	D	FRACTURE INTENSITY	MINERALIZATION CP	BN	PY	MAG	C	ASSAYS SAMPLE	FROM	TO	Cu
111.6	121.1	FELDSPAR BIOTITE PORPHYRY.														
		Cream coloured, brecciated, felsite, upper contact zone about 1m wide				100										
		3% fresh black biotite 2 to 8mm. with pale greenish feldspars														
		in cherty orange-brownish matrix. Highly fractured.														
	114.3	Pale pink 10cm qtz-calcite vein with chalcocite adjacent to										*				
		small? (ground core) fault.														
117.2	117.8	fault zone - with chalcocite mineralized gouge and fragments				110			*			*	127850	117°	118°	1280 30
		of chalcocite bornite - (test sample) 55 to 70°CA.														
		Where clay feldspar altered (short intervals) this unit is indistinguishable														
		from above unit.														
121.1	151.4	CROWDED FELDSPAR & QUARTZ PORPHYRY				120										
		Dark brown felsite chill contact with sparse feldspars over ½m.														
		Contains 30 to 40% 2 to 6mm pale greenish cloudy feldspars set														
		in brownish cherty matrix. Sparse, fresh, black biotite (less than														
		½%) and 2 to 3% 3 to 4mm Qtz eyes are present. This unit contains														
		short intervals (10 to 20cm) that display creamy white - pale green				130										
		sericitized feldspars. Intervals grade back to brown matrix surrounding														
		obscure Qtz eyes and cloudy pale greenish feldspars.														
	@123.4	30cm fault - gouge and breccia 55 to 72°CA														
	@124.6	Red hematite fractures in qtz 55°CA.														
	@125.0	Fractures as incipient breccia filled by Qtz-red hematite mixture				140										
	@126.9	40cm section displays 2 to 3% amphiboles.														
@130.3	131.4	Fault zone breccia and clay sericite gouge and fracture fillings with minor bornite and chalcocite.							X			X				

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DIAMOND DRILL LOG

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INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION SER A	ALTERATION KSP B	ALTERATION C	ALTERATION D	FRACTURE INTENSITY	QV	MINERALIZATION CP	BN	PY	MAG	CC	ASSAYS SAMPLE	FROM	TO	Cu
		The unit becomes coarser grained below 133. It's highly fractured with															
		sericite on fractures. Rare biotite books are wholly sericite altered.				150											
@138.3	139.4	Fault zone with 70°CA Qtz-pink calcite "healed" veins. Totally sericite															
		altered feldspars															
	@140.2	and 140.4 Small faults. 42°CA															
	@144.8	5cm fault 75°CA.		patchy Ksp													
		LOST CORE 141.7 – 146.0 = 0.9				160											
		Last 2m above contact – matrix becomes flinty and unit grades into															
		fractured felsite of light brown colour.															
	@151.5	Small fault.															
151.5	165	ALTERED FELDSPAR QUARTZ PORPHYRY				170											
		Feldspars intensely sericite altered – palmative green.															
	@153.5	Qtz-pink calcite vein with calcite stringers 80°CA. with bornite – small								*			*				
		high grade vein. – adjacent intense sericite alteration.															
		Short interval 152 to 153 displays 2% fresh biotite															
		3 to 4% Qtz eyes 4 to 5mm.				12											
154.4		Kspar overprint on sericite alteration along qtz veins. 50 to 65°CA.															
	156	Fault with qtz red hematite vein.															
		Unit becomes slightly more equigranular in texture below															
		156.5															
		Lost CORE 158.8 – 162.8 = 1.8m.															
	158.8	Small? fault. Very blocky and rubbly core to 166.1.															

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DIAMOND DRILL LOG

2.1

PROJECT : CVS
D.D.H. NO.: 93CVS-12
Sheet 7 of 7

INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A	B	C	D	FRACTURE INTENSITY	MINERALIZATION CP	BN	PY	MAG	Cc	ASSAYS SAMPLE	FROM	TO	Cu
		LOST CORE 163.4 - 164.9 = (1.5).														
		Lost core interval last contact														
165	172.8	PINK FELDSPAR PORPHYRY.														
		Similar to that around 100m.														
		Contains 3 to 9% 4 mm Qtz eyes and 5% chlorite altered amphiboles and biotite														
		Cut by numerous sericite fractures 20 to 40° CA. Very weak alteration - Sheeny quartz magnetite ?														
	@168.2	Small fault.														
	@168.3	2 to 4 mm Qtz - chalcocite vein 85° CA stringy adjacent sericite alteration										X				
@168.3	172.2	Chunky, pale cream coloured feldspar porphyry - ? orange dyke? cuts ~~also~~ the unit ?														
		Red hematite stained fractures and 30 to 40 cm intervals.														
		LOST CORE 172.2 - 172.8 = (.6m)														
172.8	175.9 173.4	GREY FELDSPAR CROWDED PORPHYRY														
		Chunky matrix, grey,														
		abundant ground core and footwall pieces.														
	174.8	piece of silicified feldspar porphyry with chalcocite fracture mineralization										X				
	175.9	End of hole.														
		Blocky hole - difficult drilling - hard on bits and poor core recovery.														

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DIAMOND DRILL SUMMARY

Project No. CVS
Hole No. 93CVS-13
Page 1 **of** 9

Property CVS
Claim CVS-14
Section LINE 78N - WEAK CHARGEABILITY AND TEST SOUTH EXTENT OF MYSTERY LAKE HYDROTHERMAL SYSTEM.
Date Started Oct. 27, 1993 D
Date Finished Nov. 1, 1993 D
Logged By S. ENNS
Contractor ATLAS DRILLING, KAMLOOPS
Core Stored At CHATAWAY LAKE LODGE CAMPSITE

CORE SIZE		
FROM	TO	SIZE
5.5	262.1	NQ

TOTAL DEPTH 262.1 m
CORE RECOVERY 97.3 %

COLLAR SURVEY
NORTHING 7800N
EASTING 937E
ELEVATION 1588 m
BEARING 075°Az
DIP -60°
REFERENCE

DOWN HOLE SURVEY		
FOOTAGE	DIP	AZIMUTH
65.8 m	-59½°	070°Az
196.9 m	-59°	070°Az

SUMMARY LOG			ASSAYS					
FROM	TO		FROM	TO	Cu			
0	5.5	OVERBURDEN						
5.5	262.1	SKEENA QUARTZ MONZONITE WITH MINOR APLITE INTERVALS.						
		Two faults occur at 87.5-88.3 and 177.4-178.8. In top 50m, short 20 to						
		80 cm intervals of fracture controlled sericite alteration are present with a few	195.0	197.7	398			
		scattered chalcocite veins immediately below casing. Between 50 and 100m are						
		three 6-10m intervals of pervasive sericite alteration in essentially fresh intrusion.						
		Minor fracture-controlled, K-spar altered core envelopes accompany the deeper two	*201	249	2 TO 6 ppm Cu			
		sericite intervals. Chlorite ± epidote alteration between 92 and 100m occupies the						
		lower fringe of this sericite alteration. Several chalcocite-bornite fractures (50-60°CA)			* THIS IS ANOMALOUSLY			
		occur between 129 and 137m with no associated alteration in fresh intrusion.			LOW IN Cu. LEVEL.!!			
		Between 129 and 229m is an interval of essentially continuous, pervasive, moderate to intense						
		sericite alteration with two short (4 to 7m), barren, pervasive silicified intervals near the top.						
		Within the sericite altered interval is a significant zone of quartz-specularite veining (159 to 228m)						
		(45 to 85°CA) with an average 4 to 7/3m (split interval). Minor very fine grained chalcocite						
		may accompany the specular hematite. Quartz veining averages 2-5/m between						
		191 and 215m and sparse chalcocite fracture fillings are also present. Near the bottom						
		of the main sericite zone, sericitization is less intense and gives way to two chloritized mafics						
		intervals. A longer chloritized mafics interval (228-246) with weak 5 to 40cm						
		structurally controlled sericite alteration straddles the main sericite zone and the						
		deepest, 10m pervasive sericite zone (246-256) near the bottom of the hole.						
		More specularite-quartz veining accompanies the deep, shorter sericite interval.						
		At 258.5m a single 1mm chalcocite-bornite-quartz (1cm wide) vein at 72°CA and 25cm sericite alteration cuts otherwise fresh Skeena intrusion.						
		This hole, although not well mineralized apparently intersected the outer edge of the same hydrothermal system as 93CVS-11.						

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LC 5.0

DIAMOND DRILL LOG

$\Sigma LC = 6.9m$ / $262.1 - 5.5$ = 2.7% loss

Cc = chalcocite
Mo = molybdenite.

PROJECT: CVS
D.D.H. NO.: 93CVS-13
Sheet 2 of 9

INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A	B	C	D	FRACTURE INTENSITY	MINERALIZATION CP	BN	PY	MAG	Cc	Mo	ASSAYS SAMPLE	FROM	TO	Cu
0	5.5	CASING															
5.5	174.3	SKEENA QUARTZ MONZONITE															
5.5	6.7	Rubbly core															
		Medium to coarse grained pink intrusion with 3% 3 to 6 mm black biotite															
		Mottled appearance due to pink K-spar and creamy greenish feldspar															
		Short sericite altered intervals 10 to 40cm wide with minor shearing.															
	@7.5	30cm interval of sericite altered intrusion with 75°CA 3 to 4 mm Qtz veinlet with Cc - minor										X					
	@9.3	hairline fracture with chalcocite in sericite altered interval										X					
	@9.5	small fault 80°CA.															
	@12.6	30cm fault with 80°CA.															
@13.2	@14.0	bleached, altered interval with minor Mo and/or chalcocite on fractures										X	X				
		Lost Core 13.1 - 15.2 = 1.4m															
15.2	16.4	Moderate to sericite altered interval with 10cm clay gouge at 16.2															
		Short Sericite altered intervals: 17.6 - 18.0 with 10cm fault 80°CA;															
		19.2 - 19.4; 20.0 - 20.3; 21.0 - 21.3; 25.6 - 26.1 with															
		30cm fault. 31.6 - 32.0. Adjacent wallrock plagioclase feldspars altered to pale olive green hard mineral. TS at 35.0. for ID															
		Lost Core 21.1 - 25.5 = 3.6															
35.2	36.5	Intense sericite altered interval with white Qtz veni 30cm wide with															
		60°CA 1cm red hematite band. Cut by 10cm clay gouge fault.															
		Fresh pink quartz monzonite below 36.5.															
41.1	41.8	Intense soft pale olive green sericite altered interval - minor shear @ 82°CA 2cm wide															
43.7	50.6	10 to 30cm green sericite intervals centred on fractures 40-45°CA in otherwise fresh rock															
50.5	58.9	Intense sericite altered interval with small shears and faults 5 to 25cm wide @ 50.7 5cm 70°CA; @ 51.3 25cm 60°CA.; 54.8 3cm @ 80°CA															

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DIAMOND DRILL LOG

PROJECT: CUS
D.D.H. NO.: 93CUS-13
Sheet 3 of 9

INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A (SER)	B (Ksp)	C (Chl/Epd)	D	FRACTURE INTENSITY	MINERALIZATION CP BN PY MAG	ASSAYS SAMPLE	FROM	TO	Cu
		Qtz red hematite veni at 54.9 35°CA. Disseminated epidote	replacement of scattered plagioclase									
		and mafic sites 55.6 Also, mafics are partially chloritized at	bottom of 50.5-58.7 interval between 55.2 and 56.4 and 57.4 to 58.1									
		Epidote-chlorite is marginal to sericite alteration.				10						
	@ 58.8	Small fault 80°CA.										
@ 64-	65.2	Chloritized mafics and epidote alteration of feldspars plus a few thin epidote stringers										
@ 65.3	75.0	Intense sericite pervasive alteration with clay sericite faults	that display most intense					30 to 30cm containing		5 to 10cm qtz -		ilme
		may have been hydrothermal solution conduits because they display severest alteration										
		Small faults at 66.3-66.6, 67.8-68.3; 69.3-69.5				20						
		2-5cm pink, internal Kspar envelopes occur central to most										
		intense sericite alteration beginning at 70.5. This frequency is										
		2 to 5/m within the sericite altered interval. Sparse quartz										
		veining is present 60-70°CA. Red hematite bands and streaks occur in the small faults with qtz veins										
@ 75	82.3	Fresher rock with sericite envelopes 1 to 5 cm wide, wider sericite-Kspar				30						
		alteration envelope 10 to 30cm wide about 1 to 5cm shears of										
		clay-sericite gouge (- synalteration microfaults?). Intrusive rock is										
		massive with 2 to 5 fractures/m. Epidote stringers in and around mafics in fresher rocks on margin										
		of sericite altered interval above and below. - chloritized mafics from 79.0 to 80.0 m.										
@ 82.3	91.0	Intense sericite altered interval. Locally parts silicified over 20 to 50 cm.				40						
		Qtz with red hematite 86.7-87.2 at edge of small shear.										
@ 87.5	88.3	Fault Zone 45 to 65°CA.										
		Minor Kspar envelopes in this sericite altered interval.										
@ 91.0	93	Less altered quartz monzonite weak chloritized mafics and epidote										
		plus thin epidote stringers				50						
@ 93.0	94.0	Sericite altered weak, partly silicified and sericite altered.										

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LC = 0.6

DIAMOND DRILL LOG

PROJECT: CVS
D.D.H. NO.: 93CVS-13
Sheet 4 of 9

INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION SER A	ALTERATION Ksp B	ALTERATION Chl/Epd	ALTERATION D	FRACTURE INTENSITY	MINERALIZATION CP BN PY MAG Cc	ASSAYS SAMPLE	FROM	TO	Cu
@93°	99.0	Moderate to intense chloritized mafics and epidote desemination around mafics and elsewhere, plus epidote on irregular fractures.										
	@93.6	small fault 85°CA										
@99.0	100.0	Silicified interval with red hematite fractures which grades into sericite and then into chlorite-epidote weak altered quartz monzonite.				60						
@100°		Pink mottled Hasana Quartz monzonite with mainly fresh black biotite books except for short sericite altered intervals 20 to 40 cm wide often centred on fracture or shear @ 102.0, 102.9, 103.6, 104.8 and 106.0.				70						
	@102.1	10cm fault with 50-55°CA										
@113.4	125	weakly altered (pervasive) quartz monzonite changes to fresh intrusive rock with coarse mafics of about 120.										
@113.4	120.0	Former characterized by sparse black biotite 1 to 3% and pale green feldspars 20% and 30 to 40% pink Kspar mixed with about 20% quartz				80						
@120.0	129.3	Latter (fresh) characterized by 7 to 8% Mafics with 2 to 8mm fresh black biotite which 4 to 5% are coarse 5 to 8mm hornblend in mottled pink white feldspar quartz coarsely crystalline mixture. Reflected by mag. susc. as 1.0 to 10.1 x10 x10⁻⁶ cgs units. Sericite alteration accompanies fractures and occasional qtz veins 30 to 60°CA as 5 to 30cm wide envelopes, many with sheared veins or sericite gouge. Lost Core 119.5-121.6 (0.6)				90						
	@125°	Chalcopyrite on fracture						*				
	@128.4	40cm intrude, sericite-altered interval with sheared qtz veins 62°CA with Cc						*				
@129.3		weakly altered quartz monzonite, similar to 113.4-120.0 with Qtz-Kspar healed fault? 130.2 to 131.0 within an intense sericite pervasive altered interval 129.3 to 132.6				100						

– numerous structures = plumbing sites for hyd fluids – minor post alt'n movement = crush + clay + ser development seen on small 1–5cm faults w/ little significant displacement. They are prefered fault structures because of their weakness + lubrication from sericite development.

AUCUMO Resources Ltd. **DIAMOND DRILL LOG**

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Sheet 5 of 9

LC = 0.5

INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION SEC A	B	C	SIL D	FRACTURE INTENSITY	MINERALIZATION CP	BN	PY	MAG	Cc	ASSAYS SAMPLE	FROM	TO	Cu
		Lost Core 130.8 – 131.7 = 0.5				180										
	@132.9	1mm minor chalcocite – chalcopyrite fracture 55°CA. – no associated alteration						*				*				
	@134.7	1–2mm minor chalcocite – chalcopyrite bornite quartz vein 65°CA – no associated alteration						*	*			*				
@135.4	136.2	intense pervasive sericite altered fault zone with Qtz-pink calcite vein 50°CA with														
		minor chalcocite – bornite				110			*			*				
@139	@137.0	Pervasive silicification with sericite alteration below 139.														
	@138.9	Qtz vein with red hematite 60°CA														
	@140.8	30cm fault zone of crushed rock and clay – sericite gouge														
@141.8	142.8	Intense pervasive silicification + Kspar alteration with swarm of 35 to 45°CA epidote – red hematite veins														
@142.8	143.3	Intense clay – sericite altered, crushed fault zone.				120										
	@145.4	Small intense sericite – clay altered crushed fault with qtz – red hematite 1½cm vein. – 30cm fault.														
	@149.0	10cm crushed sericite – clay fault zone. – very silicified above fault														
		Short silicified intervals on sericite altered intrusion @ 152.4 to 153.3; 153.7 to 156.4 then														
		rock becomes fresher with weak to moderate sericite alteration + chlorite altered mafics														
		156.4 to 157.9.				130										
	@156.4	Small fault 15cm clay – sericite gouge 55°CA.														
@158.0	158.8	Altered aplite – sericite altered – highly fractured														
	@159.2	3mm Qtz – hematite vein 65°CA. in intensely sericite altered intrusion due to structure – small 5cm fault.														
	@158.9	2cm clay sericite gouge (shear) with pink calcite veins														
	@160.4	5cm clay gouge – sericite in intensely pervasive sericite altered interval 40 to 110 wide														
	@161	Hydrothermal alteration becomes stronger (more intense,														
		pervasive and widespread. It is accompanied by numerous														
		Qtz – hematite veins that range from 1cm thick to 1mm wide. 45 to 85°CA. Their frequency is shown beside each 3m sample interval (see 6)														
		The predominant alteration is pale green sericite with only primary qtz surviving.														

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DIAMOND DRILL LOG

QV 1-2/m, 2-5/m, >5/m

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Sheet 6. **of** 9

INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A	B	chl C	Sil D	FRACTURE INTENSITY	QV	MINERALIZATION CP BN PY MAG Cc	ASSAYS SAMPLE	FROM	TO	Cu	Qtz-Hematite Vein frequency
		The frequency of qtz veining also increases 2-5/m. Bleached fractures				150				627851	160	163	69	4
		are common. In places where sericite is very intense it takes								627852	163	166	30	6
		on a pale brown colour								627853	166.	169	181	7
@166.6	166.8	Clay sericite gouge and crushed rock								627854	169	172	14	4
@169.3	170.0	Highly fractured with sericite - clay on fractures								627855	172	175	11	5
	@174.2	20cm clay sericite fault				160				627856	175	178	11	3
										627857	178	181.2	90	11
@174.3	177.4	ALTERED APLITE										gap - fresh rock		
		Sericite altered, highly fractured sericite pervasive cut by								627858	184	187	41	6
		Qtz - hematite veins. 65 to 70°CA trace chalcocite?							*			gap - fresh rock		
177.4	233.6	Altered Qtz Monzonite - Skeena.				170				627859	189	192	155	7
@177.4	178.8	Major Fault zone - clay sericite, tectonic breccia.								627860	192	195	107	8
		Below the fault is a high frequency of Qtz - hematite veins - see margin of sample interval. Very intense pervasive sericite alteration.												
	@181.1	Qtz hematite high grade vein - no visible copper mineralization - 3 vein 1cm wide in white qtz								627861	195	197.2	398	4
@181.3	@188.9	Qtz Monzonite is altered across shorter intervals thus:					FAULT ZONE					fresh rock		
		183.0 - 183.7 ; 183.9 - 185.2 ; 186.4 - 186.8 within these intervals is intense				180								
		pervasive sericite alteration centred on Qtz-hematite veins that are often sheared. 50 to 65°CA. No visible copper mineralization												
@188.9	197.2	Intense pervasive sericite alteration cut by small faults												
		and Qtz-Hematite veins. 35 to 65°CA. Internal to green sericite												
	@189	20cm fault w/ crush rock and gouge of clay sericite 65°CA.												
	@190.9	10cm fault with Qtz vein + crushed rock.				190								
	@191.3	20cm fault zone with crushed rock and clay gouge												
	@193.1	10cm fault with clay sericite gouge + crushed rock												
@192	195	Qtz Hematite veins 2mm to 1cm wide - accompanied by copper minerals??												

Fresh intrusion

is a soft pale brown sericitic ? mineral as internal envelope to qtz vein or fracture

197

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DIAMOND DRILL LOG

PROJECT: CVS
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Sheet 7 of 9

INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION SER A	B	C (chl.)	D	FRACTURE INTENSITY	QV	MINERALIZATION CP	BN	PY	MAG	Cc	ASSAYS SAMPLE	FROM	TO	Cu
		Many quartz veins with Qtz-Hematite veins are sheared adjacent to Qtz vein															
195	197.2	Several of the Qtz hematite veins may have fine grained chalcopyrite @196.1, 197.0					200						*	627862	201	204	4
		Dip are 65 to 66° CA. Interval includes 2 10+3cm fresh qtz monzonite intervals.															
197.2	199.7	Fresh, unaltered Skeena qtz monzonite												627863	205	208	3
199.7	204.3	Intense pervasive sericite with abundant white qtz veins ~5/m and												627864	208	211	3
		small shears @ 201.0, 201.9, 202.2, 202.6. This interval												627865	211	214	2
		has 3 Qtz Hematite veins and abundant barren Qtz veins - 60 to 70° CA					210							627866	214	217	3
204.3	205.0	Fresh weakly altered Skeena with a few sericite envelope fractures.												627867	217	220	2
205.0	228.4	Intense pervasive sericite alteration with short 20 to 30cm weakly												627868	220	223	2
		sericite - chlorite altered intervals. Small fault or sheared veins 206.8, 207.7, 210.9, 212.9												627869	223	226	4
		20cm white Qtz vein at 210.0. 20cm Qtz-Hematite vein with chalcopyrite 20 to 70° CA							*					627870	226	228	4
	210.6	2cm Qtz Hematite vein 24° CA with epidote															
210.8	211.9	Interval with weaker alteration - chloritized mafics.					220							627871	246	249	6
		Pale brown soft alteration products of feldspars in intense sericite												627872	249	252	12
		altered interval - sample @ 214.7. Assay 214 to 217 has 7 Qtz Hem												627873	252	255	71
		veins 2 to 10mm 60 to 75° CA. Hematite is very finely disseminated in Qtz												627874	255	258	50
		Sub interval 217 to 220 is more structurally controlled with					230										
		alternating moderate and intense altered intervals ½ to 1 m wide															
		Sheared sericite pyrite veins at 218.6 and 218.9 5 to 10cm wide															
		5cm faulted quartz vein 222.7 80° CA.															
		Other small faulted veins at 225.3, 225.7.															
228.4	233.6	Weakly altered to fresh Skeena phase. Altered structurally					240										
		controlled intervals are 5 to 40cm wide with sparse Qtz-Hematite															
		veins. Alteration consists of weak mafics to chlorite alteration.															

Frequency of Qtz Hem veins

AUCUMO Resources Ltd. LC=0.8

DIAMOND DRILL LOG

PROJECT: CVS
D.D.H. NO.: 93CVS-13
Sheet 8 of 9

INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION (SER A, B, Chl C, QV D)	FRACTURE INTENSITY	MINERALIZATION (CP, BN, PY, MAG, Cc)	ASSAYS (SAMPLE, FROM, TO, Cu)
233.6	234.4	APLITE				
		Weakly sericite altered along numerous fractures. Contacts 70°CA	250			
234.4	236.0	WEAKLY ALTERED SKEENA QUARTZ MONZONITE				
		Fracture controlled sericite alteration as 5cm wide envelopes	40 to 85°CA			
		Pervasive weak mafics to chlorite alteration	← Mineralized Vein 260		×	×
236.0	237.6	APLITE				
		As 233.6 to 234.4 - Qtz Hematite Vein at 236.8	?			
		Inclusion of Skeena 236.8 to 237.1 - very altered				
237.6		ALTERED SKEENA QUARTZ MONZONITE				
		Aplite dyke 238.9 to 239.4				
		Variably altered from intense sericite to chloritized mafics - structurally controlled sericite altered intervals with Qtz-Hem Veins				
		Small fault at aplite lower contact 239.6.				
		Sericite altered intervals are zoned by pale orange Kspar envelopes starting from 242.0				
		Qtz-Hematite veinlets often are centred in these intensely altered intervals. Example 251.2 sample TS 251.5				
242	245.9	7 Qtz-Hem Vein 60 to 72°CA 2 to 9mm wide. and a few barren Qtz veins.				
245.9	252.1	Intensely altered interval, Pervasive intense sericite and structurally (fracture or Qtz, or Qtz Hem Vein) controlled Kspar envelopes 2 to 5cm wide with 2 or 3 intervals 10 & 30cm wide of weakly altered Skeena Qtz Monzonite				
		Several small faults? 247.6 20cm with 85°CA or could be large fault with Lost Core			Photos showing alteration/veining/fault distribution Lost & Boxes photos.	
		Lost Core 247.8 - 249.0 = 0.8m			249.4 - brown sericite & vein beside fault	
	251.9	Fault 20cm gouge			250.9 - brown sericite and Kspar flooding at 72°CA vein	

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DIAMOND DRILL LOG

PROJECT: CVS
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Sheet 9 of 9

INTERVAL FROM	INTERVAL TO	DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	ALTERATION D	FRACTURE INTENSITY	MINERALIZATION CP	MINERALIZATION BN	MINERALIZATION PY	MINERALIZATION MAG	ASSAYS SAMPLE	ASSAYS FROM	ASSAYS TO	ASSAYS Cu
		Below 247 in altered interval soft pale brown sericite envelopes accompanies pale green sericite. - looks like K spar alteration													
	↓	In some places they are cut by younger pale green, barren, sericite fractures (TS 253.7).													
		Qtz Hematite veins are 57 to 80°CA. - some Hematite edge of 1cm Qtz Veins. Most Qtz Hematite's are 2 to 4 mm veinlets.													
		Crushed (faulted?) veins are common: 250.4, 251.8, 253.3, 254.5, 254.1, 254.1 as 5 to 15 cm gouge - clay sericite bands.													
252.1	262°	Unaltered Skeena Qtz Monzonite except for weak, pervasive chloritization and minor epidote adjacent to (for about 1 m).													
		altered interval. and short sub interval 258.2 to 258.7 with 72°CA 1cm wide Qtz - Chalcopyrite - bornite vein - 1 mm chalcocite seam in circulation													
		The vein displays progression of alteration envelopes. and 1cm crush band of clay - sericite - Core renamed for skeletal. - best mineralization													
262°	262'	Becoming altered again? - dark green sericite - epidote interval to end of hole								but shows brown sericite envelope outside					
										green sericite core adjacent to vein					
	262.1	End of Hole (860') = End of Programme.													Photo

APPENDIX B

ANALYTICAL RESULTS

Author Copy

BASMET01.XLS

Sample	FROM	TO	Cu	Mo	Ag	Pb	Zn
	m	m	ppm	ppm	ppm	ppm	ppm
627525	45.0	48.0	271	<1	<0.2	6	28
627526	48.0	51.0	119	1	<0.2	<2	30
627527	51.0	54.0	73	<1	<0.2	<2	28
627528	54.0	57.0	76	<1	<0.2	2	28
627529	57.0	60.0	51	<1	<0.2	<2	26
627530	83.0	86.0	55	<1	<0.2	<2	30
627531	86.0	89.0	291	1	<0.2	2	30
627532	89.0	92.0	299	1	<0.2	<2	26
627533	92.0	95.0	68	<1	<0.2	<2	26
627534	95.0	98.0	60	<1	<0.2	<2	26
627535	98.0	101.0	63	<1	<0.2	4	22
627536	101.0	104.0	37	<1	<0.2	4	20
627537	109.0	112.0	225	<1	<0.2	<2	28
627538	112.0	115.0	88	<1	<0.2	<2	28
627539	120.0	123.0	50	<1	<0.2	<2	28
627540	123.0	126.0	73	<1	<0.2	2	30
627541	126.0	129.0	170	<1	<0.2	2	26
627542	129.0	132.0	153	<1	<0.2	12	30
627543	132.0	135.0	95	1	<0.2	<2	26
627544	135.0	138.0	233	<1	0.2	4	26
627545	138.0	141.0	229	<1	<0.2	4	34
627546	141.0	145.0	129	<1	<0.2	4	28
627547	145.0	147.0	132	<1	<0.2	4	28
627548	147.0	150.0	116	<1	<0.2	4	32
627549	150.0	153.0	61	<1	<0.2	6	36
627550	153.0	156.0	73	<1	<0.2	6	36
627551	156.0	159.0	85	1	0.2	2	32
627552	159.0	162.0	54	<1	<0.2	8	32
627553	180.0	183.0	38	<1	<0.2	2	26
627554	183.0	186.0	74	<1	<0.2	6	26
627555	186.0	189.0	237	<1	<0.2	6	28
627556	189.0	192.0	266	<1	<0.2	<2	26
627557	192.0	195.0	90	<1	<0.2	<2	32
627558	195.0	198.0	73	<1	<0.2	<2	32
627559	198.0	201.0	228	<1	<0.2	<2	34
627560	201.0	204.0	147	<1	0.2	<2	32
627561	204.0	207.0	63	<1	<0.2	2	34
627562	207.0	210.0	232	<1	0.4	<2	30
627563	210.0	213.0	66	<1	0.2	2	32
627564	213.0	216.0	163	<1	0.2	<2	32
627565	216.0	219.0	27	<1	<0.2	<2	26
627566	219.0	222.0	36	1	<0.2	4	32
627567	222.0	225.0	44	<1	<0.2	<2	42

BASMET02.XLS

Sample	FROM	TO	Cu	Mo	Ag	Pb	Zn
	m	m	ppm	ppm	ppm	ppm	ppm
627501	12.0	15.0	281	<1	<0.2	2	34
627502	15.0	18.0	114	1	<0.2	<2	26
627503	18.0	21.0	1256	1	0.2	<2	26
627504	21.0	24.0	161	<1	<0.2	<2	28
627505	24.0	27.0	526	<1	<0.2	2	34
627506	27.0	30.0	71	<1	<0.2	2	28
627507	30.0	33.0	135	1	<0.2	<2	30
627508	33.0	36.0	79	<1	<0.2	<2	26
627509	36.0	39.0	233	<1	<0.2	<2	30
627510	39.0	42.0	296	<1	<0.2	<2	30
627511	42.0	45.0	55	<1	<0.2	2	24
627512	45.0	48.0	66	<1	<0.2	4	28
627513	48.0	51.0	97	<1	<0.2	<2	30
627514	51.0	54.0	54	<1	<0.2	<2	26
627515	54.0	57.0	127	<1	<0.2	<2	24
627516	57.0	60.0	64	<1	<0.2	4	26
627517	142.0	145.2	656	<1	0.2	8	30
627518	145.2	147.0	264	<1	<0.2	<2	32
627519	147.0	150.0	229	<1	<0.2	2	36
627520	150.0	153.0	69	<1	<0.2	<2	36
627521	153.0	156.0	132	<1	<0.2	4	32
627522	156.0	159.0	472	<1	0.2	<2	28
627523	159.0	162.0	210	<1	<0.2	2	34
627524	200.0	201.0	141	<1	<0.2	<2	32

BASMET3.XLS

Sample	FROM	TO	Cu	Mo	Ag	Pb	Zn
	m	m	ppm	ppm	ppm	ppm	ppm
627714	48.0	51.0	369	1	<0.2	6	34
627715	51.0	54.0	546	1	<0.2	<2	38
627716	54.0	57.0	628	2	<0.2	<2	28
627717	57.0	60.0	457	1	<0.2	<2	32
627718	60.0	63.0	544	1	<0.2	<2	30
627719	63.0	66.0	549	<1	<0.2	<2	30
627720	66.0	69.0	384	1	<0.2	<2	32
627721	69.0	72.0	146	<1	<0.2	<2	28
627722	72.0	75.0	84	1	<0.2	<2	26
627568	135.0	138.0	78	<1	0.2	<2	34
627569	140.0	143.0	191	<1	0.2	<2	32
627570	164.0	167.0	188	<1	0.2	2	32
627571	172.5	175.5	169	<1	0.2	2	32
627572	179.0	182.0	96	<1	0.2	2	34
627573	182.0	185.0	174	1	0.2	2	34
627574	185.0	188.0	195	2	0.2	2	32
627575	190.0	193.0	231	<1	0.2	<2	28
627576	193.0	196.0	464	<1	0.2	<2	32
627577	196.0	199.0	107	<1	0.2	<2	26
627578	218.0	221.0	293	<1	0.2	<2	32
627723	221.0	223.0	227	1	<0.2	<2	28
627579	223.0	224.0	218	<1	0.2	2	30
627724	224.0	227.0	213	1	<0.2	4	28
627580	227.0	228.0	286	<1	0.2	6	32
627725	228.0	230.0	142	1	<0.2	<2	30
627590	230.0	231.0	263	<1	0.2	<2	34
627726	231.0	233.0	179	<1	<0.2	<2	26
627727	233.0	235.5	207	1	<0.2	4	28
627581	235.5	236.5	413	<1	0.2	2	32
627728	236.5	237.5	224	1	<0.2	<2	32
627582	237.5	239.5	204	<1	0.2	<2	34
627729	239.5	242.0	288	1	<0.2	2	30
627584	242.0	245.0	764	<1	0.4	2	28
627585	245.0	248.0	746	9	0.4	2	34
627586	248.0	251.0	355	2	0.2	<2	30
627730	251.0	254.0	102	1	<0.2	<2	22
627587	254.0	257.0	1171	<1	0.6	2	28
627588	257.0	260.0	1239	<1	0.6	2	32
627589	260.0	263.0	538	<1	0.4	<2	30
627731	263.0	266.0	631	18	0.2	<2	30
627732	266.0	269.0	146	1	<0.2	4	34

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BASMET04.XLS

Sample	FROM	TO	Cu	Cu	Mo	Ag	Pb	Zn
	m	m	ppm	%	ppm	ppm	ppm	ppm
627591	39.0	42.0	233		<1	0.2	2	28
627592	42.0	45.0	410		<1	0.4	<2	34
627593	45.0	48.0	510		<1	0.4	<2	30
627594	57.0	60.0	91		<1	0.2	<2	38
627595	60.0	63.0	120		<1	0.4	2	34
627596	63.0	66.0	93		<1	0.2	<2	34
627597	67.0	68.0	68		<1	0.2	2	30
627598	75.0	77.0	107		<1	0.2	<2	46
627599	77.0	79.0	40		<1	0.2	2	40
627600	79.0	82.0	77		<1	0.2	<2	40
627601	99.0	102.0	78		<1	0.2	<2	38
627602	126.5	127.5	65		<1	0.2	2	34
627603	155.0	157.0	75		<1	0.2	<2	30
627604	157.0	159.0	283		<1	0.2	2	36
627605	159.2	162.2	528		<1	0.4	<2	30
627606	172.0	175.0	321		<1	0.4	8	34
627607	175.0	178.0	306		1	0.8	6	34
627608	178.0	181.0	407		1	0.4	4	32
627609	181.0	183.0	597		<1	0.4	<2	32
627610	183.0	185.0	518		<1	0.6	6	36
627611	185.0	187.0	465		<1	0.6	2	32
627612	187.0	189.4	3841	0.39	1	1.8	<2	30
627761	189.0	190.0	286		1	<0.2	<2	24
627613	190.0	193.0	332		<1	0.2	4	24
627762	193.0	196.0	334		<1	<0.2	<2	26
627763	196.0	199.0	300		<1	<0.2	<2	24
627614	212.0	214.0	325		1	0.4	2	26
627615	268.0	269.0	193		1	0.2	2	22
627616	329.0	332.0	390		1	0.4	<2	30
627617	332.0	335.0	77		1	0.2	<2	24
627619	354.8	355.8	45		1	0.4	2	24
627618	362.3	363.3	375		3	0.4	<2	26
627764	363.3	364.8	66		1	<0.2	<2	28
627620	364.8	365.8	3294	0.33	22	1.8	<2	28
627765	365.8	368.8	131		1	<0.2	<2	34
627766	368.8	371.8	9		<1	<0.2	2	30
627767	371.8	374.8	72		<1	<0.2	<2	30
627768	374.8	378.0	122		2	<0.2	<2	34
627621	378.0	380.0	352		7	0.4	4	30
627622	380.0	383.0	159		1	0.2	8	38
627623	383.0	385.0	290		1	0.4	<2	38
627624	395.0	398.0	235		1	0.4	<2	28

BASMET04.XLS

Sample	FROM	TO	Cu	Mo	Ag	Pb	Zn
	m	m	ppm	ppm	ppm	ppm	ppm
627591	39.0	42.0	233	<1	0.2	2	28
627592	42.0	45.0	410	<1	0.4	<2	34
627593	45.0	48.0	519	<1	0.4	<2	30
627594	57.0	60.0	91	<1	0.2	<2	38
627595	60.0	63.0	120	<1	0.4	2	34
627596	63.0	66.0	93	<1	0.2	<2	34
627597	67.0	68.0	68	<1	0.2	2	30
627598	75.0	77.0	107	<1	0.2	<2	46
627599	77.0	79.0	40	<1	0.2	2	40
627600	79.0	82.0	77	<1	0.2	<2	40
627601	99.0	102.0	78	<1	0.2	<2	38
627602	126.5	127.5	65	<1	0.2	2	34
627603	155.0	157.0	75	<1	0.2	<2	30
627604	157.0	159.0	283	<1	0.2	2	36
627605	159.2	162.2	528	<1	0.4	<2	30
627606	172.0	175.0	321	<1	0.4	8	34
627607	175.0	178.0	306	1	0.8	6	34
627608	178.0	181.0	407	1	0.4	4	32
627609	181.0	183.0	597	<1	0.4	<2	32
627610	183.0	185.0	518	<1	0.6	6	36
627611	185.0	187.0	465	<1	0.6	2	32
627612	187.0	189.4	3841	1	1.8	<2	30
627761	189.0	190.0	286	1	<0.2	<2	24
627613	190.0	193.0	332	<1	0.2	4	24
627762	193.0	196.0	334	<1	<0.2	<2	26
627763	196.0	199.0	300	<1	<0.2	<2	24
627614	212.0	214.0	325	1	0.4	2	26
627615	268.0	269.0	193	1	0.2	2	22
627616	329.0	332.0	390	1	0.4	<2	30
627617	332.0	335.0	77	1	0.2	<2	24
627619	354.8	355.8	45	1	0.4	2	24
627618	362.3	363.3	375	3	0.4	<2	26
627764	363.3	364.8	66	1	<0.2	<2	28
627620	364.8	365.8	3294	22	1.8	<2	28
627765	365.8	368.8	131	1	<0.2	<2	34
627766	368.8	371.8	9	<1	<0.2	2	30
627767	371.8	374.8	72	<1	<0.2	<2	30
627768	374.8	378.0	122	2	<0.2	<2	34
627621	378.0	380.0	352	7	0.4	4	30
627622	380.0	383.0	159	1	0.2	8	38
627623	383.0	385.0	290	1	0.4	<2	38
627624	395.0	398.0	235	1	0.4	<2	28

BASMET05.XLS

Sample	FROM	TO	Cu	Mo	Ag	Pb	Zn
	m	m	ppm	ppm	ppm	ppm	ppm
627625	25.0	26.0	93	1	0.2	4	34
627783	40.8	43.8	97	<1	<0.2	6	34
627784	43.8	46.8	79	<1	<0.2	<2	32
627626	46.8	47.2	825	1	0.6	<2	48
627785	47.2	50.2	113	<1	<0.2	<2	38
627786	50.2	53.2	168	<1	<0.2	<2	28
627787	53.2	54.5	97	<1	<0.2	2	32
627627	54.5	56.5	176	1	0.2	<2	26
627628	56.5	59.5	243	1	0.2	4	24
627629	59.5	60.7	81	1	0.2	6	24
627630	61.4	64.8	315	1	0.2	4	32
627631	64.8	67.4	182	<1	<0.2	2	30
627632	67.4	69.4	192	1	0.2	<2	24
627633	72.0	74.0	170	2	0.2	<2	30
627634	79.0	81.0	132	2	<0.2	<2	28
627635	90.0	93.0	144	1	0.2	<2	24
627636	93.0	96.0	363	2	<0.2	<2	24
627637	96.0	98.0	432	1	0.2	2	24
627638	98.5	99.5	10	<1	<0.2	<2	<2
627639	108.0	110.0	137	<1	0.2	<2	30
627640	117.0	120.0	176	1	0.2	2	26
627641	129.8	130.3	203	1	0.4	4	22
627642	142.0	145.0	502	<1	0.4	<2	38
627643	145.0	148.0	85	<1	<0.2	6	40
627788	148.0	151.0	196	<1	<0.2	<2	34
627789	151.0	152.5	91	<1	<0.2	2	30
627644	152.5	154.5	743	6	0.6	<2	36
627790	154.5	157.5	56	1	<0.2	4	30
627791	157.5	160.5	167	3	<0.2	4	30
627645	166.0	169.0	99	<1	<0.2	<2	38
627646	195.0	198.0	118	1	0.4	6	40
627647	198.0	201.0	265	1	<0.2	8	36
627792	201.0	204.0	377	<1	<0.2	4	36
627793	204.0	206.0	122	<1	<0.2	4	38
627648	206.0	209.0	424	<1	0.2	2	42
627649	209.0	212.0	48	<1	0.2	<2	38
627650	212.0	215.0	60	1	0.2	8	38
627651	220.0	223.0	174	1	0.4	<2	32
627652	253.0	256.0	200	<1	0.4	<2	42
627653	261.5	264.5	90	<1	0.2	4	34
627794	280.5	283.5	150	1	<0.2	<2	28
627795	283.5	285.5	215	<1	<0.2	<2	28
627654	285.5	287.5	1139	1	0.8	<2	26
627655	287.5	289.5	227	<1	0.2	2	26
627656	339.5	342.5	146	1	0.4	<2	30
627657	342.5	345.5	123	1	0.2	<2	30

BASMET06.XLS

SAMPLE	FROM	TO	Cu	Cu	Mo	Ag	Pb	Zn
	m	m	ppm	%	ppm	ppm	ppm	ppm
627658	30.0	33.0	150		1	<0.2	6	56
627659	33.0	36.0	183		<1	<0.2	8	36
627660	60.0	63.0	235		<1	<0.2	4	36
627661	63.0	66.0	1981		5	1.2	<2	30
627662	66.0	68.0	9262	0.93	1	6.4	2	38
627769	68.0	71.0	96		<1	0.2	4	28
627770	71.0	74.0	88		<1	<0.2	2	32
627771	74.0	77.0	79		1	<0.2	4	28
627663	106.0	109.0	109		<1	<0.2	4	42
627772	130.6	133.6	81		<1	<0.2	6	30
627773	133.6	136.6	142		1	<0.2	8	34
627664	136.6	137.6	3110	0.33	1	1.2	2	40
627774	137.6	140.6	978		1	0.4	<2	34
627775	140.6	143.6	94		<1	<0.2	8	32
627665	150.9	153.9	93		<1	<0.2	6	36
627666	153.9	156.9	169		<1	<0.2	4	34
627667	156.9	159.9	911		<1	0.4	8	30
627776	159.9	160.9	1033		1	0.4	2	30
627668	160.9	163.9	347		<1	<0.2	8	28
627669	179.0	181.0	123		<1	<0.2	4	28
627670	183.0	186.0	63		1	0.2	4	36
627671	186.0	189.0	143		1	<0.2	12	32
627672	189.0	192.0	196		1	<0.2	18	34
627673	192.0	195.0	276		<1	<0.2	10	34
627674	195.0	198.0	69		<1	<0.2	6	30
627675	198.0	201.0	1230		4	0.4	16	28
627676	201.0	204.0	1007		5	0.2	12	32
627677	204.0	207.0	146		<1	<0.2	14	32
627678	207.0	210.0	147		<1	<0.2	<2	26
627679	210.0	213.0	168		1	<0.2	<2	32
627680	213.0	216.0	100		1	<0.2	4	26
627681	216.0	219.0	76		2	<0.2	6	30
627777	224.3	227.3	68		<1	<0.2	8	34
627682	227.3	230.8	602		<1	0.2	<2	28
627778	230.8	233.8	700		99	0.2	4	32
627683	235.0	238.0	116		<1	<0.2	2	32
627684	248.0	251.0	28		<1	<0.2	2	30
627685	251.0	254.0	31		2	<0.2	2	32
627686	254.0	257.0	484		<1	<0.2	4	32
627687	257.0	260.0	78		2	<0.2	<2	32
627688	260.0	263.0	178		2	<0.2	<2	30
627689	263.0	266.0	160		<1	<0.2	2	30
627690	266.0	269.0	214		<1	<0.2	<2	32
627691	269.0	272.0	42		<1	<0.2	2	26
627692	278.0	281.0	164		<1	<0.2	2	26
627693	281.0	284.0	228		<1	<0.2	2	28
627694	284.0	287.0	55		<1	<0.2	<2	30
627695	290.0	293.0	254		1	<0.2	<2	30

BASMET06.XLS

SAMPLE	FROM	TO	Cu	Mo	Ag	Pb	Zn
	m	m	ppm	ppm	ppm	ppm	ppm
627658	30.0	33.0	150	1	<0.2	6	56
627659	33.0	36.0	183	<1	<0.2	8	36
627660	60.0	63.0	235	<1	<0.2	4	36
627661	63.0	66.0	1981	5	1.2	<2	30
627662	66.0	68.0	9262	1	6.4	2	38
627769	68.0	71.0	96	<1	0.2	4	28
627770	71.0	74.0	88	<1	<0.2	2	32
627771	74.0	77.0	79	1	<0.2	4	28
627663	106.0	109.0	109	<1	<0.2	4	42
627772	130.6	133.6	81	<1	<0.2	6	30
627773	133.6	136.6	142	1	<0.2	8	34
627664	136.6	137.6	3110	1	1.2	2	40
627774	137.6	140.6	978	1	0.4	<2	34
627775	140.6	143.6	94	<1	<0.2	8	32
627665	150.9	153.9	93	<1	<0.2	6	36
627666	153.9	156.9	169	<1	<0.2	4	34
627667	156.9	159.9	911	<1	0.4	8	30
627776	159.9	160.9	1033	1	0.4	2	30
627668	160.9	163.9	347	<1	<0.2	8	28
627669	179.0	181.0	123	<1	<0.2	4	28
627670	183.0	186.0	63	1	0.2	4	36
627671	186.0	189.0	143	1	<0.2	12	32
627672	189.0	192.0	196	1	<0.2	18	34
627673	192.0	195.0	276	<1	<0.2	10	34
627674	195.0	198.0	69	<1	<0.2	6	30
627675	198.0	201.0	1230	4	0.4	16	28
627676	201.0	204.0	1007	5	0.2	12	32
627677	204.0	207.0	146	<1	<0.2	14	32
627678	207.0	210.0	147	<1	<0.2	<2	26
627679	210.0	213.0	168	1	<0.2	<2	32
627680	213.0	216.0	100	1	<0.2	4	26
627681	216.0	219.0	76	2	<0.2	6	30
627777	224.3	227.3	68	<1	<0.2	8	34
627682	227.3	230.8	602	<1	0.2	<2	28
627778	230.8	233.8	700	99	0.2	4	32
627683	235.0	238.0	116	<1	<0.2	2	32
627684	248.0	251.0	28	<1	<0.2	2	30
627685	251.0	254.0	31	2	<0.2	2	32
627686	254.0	257.0	484	<1	<0.2	4	32
627687	257.0	260.0	78	2	<0.2	<2	32
627688	260.0	263.0	178	2	<0.2	<2	30
627689	263.0	266.0	160	<1	<0.2	2	30
627690	266.0	269.0	214	<1	<0.2	<2	32
627691	269.0	272.0	42	<1	<0.2	2	26
627692	278.0	281.0	164	<1	<0.2	2	26
627693	281.0	284.0	228	<1	<0.2	2	28
627694	284.0	287.0	55	<1	<0.2	<2	30
627695	290.0	293.0	254	1	<0.2	<2	30

BASMET06.XLS

SAMPLE	FROM	TO	Cu	Mo	Ag	Pb	Zn
	m	m	ppm	ppm	ppm	ppm	ppm
627696	302.0	305.0	98	8	<0.2	2	30
627697	305.0	308.0	1918	141	<0.2	<2	30
627698	308.0	311.0	276	6	<0.2	2	28
627699	312.3	315.3	265	1	<0.2	<2	30
627700	315.3	318.3	392	1	<0.2	<2	30
627701	326.0	329.0	62	1	<0.2	<2	30
627702	329.0	332.0	374	<1	<0.2	<2	28
627703	332.0	335.0	160	<1	<0.2	<2	32
627704	338.0	341.0	175	<1	<0.2	<2	32
627705	341.0	344.0	276	6	<0.2	4	32
627706	344.0	348.0	49	1	<0.2	14	42
627707	348.0	356.0	35	<1	<0.2	4	30
627708	356.0	359.0	280	8	<0.2	<2	22
627709	359.0	361.0	322	1	0.2	<2	26
627710	366.0	369.0	156	1	<0.2	<2	26
627711	369.0	371.0	2	<1	<0.2	6	28
627779	371.0	374.0	36	<1	<0.2	6	34
627780	374.0	376.7	69	<1	<0.2	6	32
627712	376.7	378.7	1277	19	0.6	<2	36
627781	378.7	381.7	23	<1	<0.2	4	28
627782	381.7	384.7	22	<1	<0.2	2	34
627713	395.8	397.8	138	11	<0.2	<2	30

BASMET07.XLS

Sample	FROM	TO	Cu	Mo	Ag	Pb	Zn
	m	m	ppm	ppm	ppm	ppm	ppm
627733	198.5	201.5	198	5	<0.2	<2	30
627734	201.5	204.5	98	<1	<0.2	<2	34

BASMET08.XLS

Sample	FROM	TO	Cu	Mo	Ag	Pb	Zn
	m	m	ppm	ppm	ppm	ppm	ppm
627735	76.7	79.7	101	1	<0.2	2	30
627736	79.7	82.7	109	1	<0.2	<2	30
627737	82.7	85.7	79	1	<0.2	<2	32
627738	113.5	116.5	109	1	<0.2	<2	32
627739	116.5	119.5	58	2	<0.2	<2	28
627740	117.5	122.5	299	1	<0.2	<2	28
627741	122.5	125.6	150	<1	<0.2	4	28
627742	125.6	128.5	350	1	<0.2	2	30
627743	128.5	130.5	206	1	<0.2	2	24
627744	130.5	133.5	238	1	<0.2	2	30
627745	142.0	145.0	74	1	<0.2	<2	30

BASMET09.XLS

Sample	FROM	TO	Cu	Mo	Ag	Pb	Zn
	m	m	ppm	ppm	ppm	ppm	ppm
627735	76.7	79.7	101	1	<0.2	2	30
627736	79.7	82.7	109	1	<0.2	<2	30
627737	82.7	85.7	79	1	<0.2	<2	32
627738	113.5	116.5	109	1	<0.2	<2	32
627739	116.5	119.5	58	2	<0.2	<2	28
627740	117.5	122.5	299	1	<0.2	<2	28
627741	122.5	125.6	150	<1	<0.2	4	28
627742	125.6	128.5	350	1	<0.2	2	30
627743	128.5	130.5	206	1	<0.2	2	24
627744	130.5	133.5	238	1	<0.2	2	30
627745	142.0	145.0	74	1	<0.2	<2	30

BASMET10.XLS

Sample	FROM	TO	Cu	Mo	Ag	Pb	Zn
	m	m	ppm	ppm	ppm	ppm	ppm
627750	144.0	147.0	92	<1	<0.2	<2	32
627751	168.0	171.0	127	1	<0.2	<2	28
627752	177.0	180.0	130	1	<0.2	<2	36
627753	180.0	183.0	70	1	<0.2	<2	36
627754	200.0	203.0	229	1	<0.2	<2	28
627755	203.0	206.0	168	<1	<0.2	<2	32
627756	206.0	209.0	367	1	<0.2	<2	32
627757	209.0	212.0	395	<1	<0.2	<2	34
627758	218.0	221.0	119	1	<0.2	<2	26
627759	221.0	224.0	185	1	<0.2	<2	26
627760	224.0	227.0	131	1	<0.2	2	26

BASMET11.XLS

Sample	FROM	TO	Cu	Mo	Cu'	Mo'	Cu	Ag	Pb	Zn
	m	m	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
627806	23.0	26.0	4	<1	7	1		<0.2	<2	20
627844	77.0	80.0	28	6				<0.2	<2	14
627845	80.0	83.0	11	1				<0.2	2	14
627846	83.0	86.0	25	2				0.2	2	14
627847	86.0	89.0	8	10				<0.2	<2	12
627807	112.0	115.0	341	66	372	68		0.2	2	18
627808	115.0	118.0	36	4	40	5		<0.2	<2	22
627809	118.0	121.0	315	33	335	32		0.2	2	24
627810	121.0	124.0	73	2	82	1		<0.2	2	28
627796	124.0	127.0	155	7				0.2	4	22
627797	127.0	130.0	89	<1				<0.2	<2	22
627798	130.0	133.0	920	353				0.8	2	8
627799	133.0	136.0	494	30				0.4	<2	16
627800	136.0	139.0	385	28				0.2	4	14
627801	139.0	142.0	10000	72			1.36	11.8	2	16
627802	142.0	145.7	624	7				0.2	<2	30
627803	145.7	149.0	96	30				<0.2	2	20
627804	149.0	152.0	389	10				0.2	2	20
627805	152.0	155.0	1307	31				0.8	4	34
627811	155.0	158.0	205	1	224	1		0.2	<2	26
627812	158.0	161.0	129	1	142	<1		<0.2	<2	26
627813	161.0	164.0	276	2	304	<1		0.2	<2	32
627814	164.0	167.0	79	<1	85	<1		<0.2	2	34
627815	167.0	170.0	540	<1	590	<1		0.4	<2	40
627825	170.0	171.0	24	<1	27	<1		<0.2	<2	36
627816	171.0	173.0	762	<1	850	<1		0.4	<2	44
627817	173.0	176.0	56	1	61	<1		<0.2	<2	38
627818	176.0	179.0	151	1	160	<1		0.2	2	34
627819	179.0	182.0	161	1	174	<1		<0.2	<2	26
627820	182.0	185.0	287	29	305	28		0.2	2	26
627821	185.0	188.0	182	3	194	3		<0.2	2	24
627822	188.0	191.0	456	9	470	8		0.4	2	38
627823	191.0	194.0	221	87	230	95		0.2	2	30
627824	194.0	197.0	289	7	300	6		0.2	<2	34
627826	197.0	200.0	1618	189	1780	200		1.2	<2	24
627827	200.0	203.0	1129	191	1250	205		0.8	<2	20
627828	203.0	206.0	1987	30	2150	36		1.6	2	20
627829	*206.0*	*209.0*	*5122*	*62*	*5600*	*69*	*0.50*	*3.2*	*4*	*22*
627830	209.0	212.0	77	1	77	3		0.2	2	34
627831	212.0	215.0	83	2	87	2		<0.2	2	32
627832	215.0	218.0	84	6	90	2				
627833	218.0	221.0	48	<1	52	1				
627834	221.0	224.0	165	1	175	3		0.2	2	42
627835	272.0	275.0	43	1	47	1		0.2	2	38
627836	275.0	278.0	37	1	41	1		<0.2	2	38
627837	278.0	281.0	413	2	440	2		0.4	2	30
627840	281.0	284.0	2331	7	2600	7		2.0	<2	32
627841	284.0	287.0	160	10	172	12		0.2	<2	32
627838	287.0	290.0	308	1	320	1		0.2	2	28
627839	290.0	293.0	310	1	328	1		0.2	2	32
627842	293.0	296.0	433	3	458	4		0.4	<2	28
627843	296.0	299.0	750	25	890	29		0.6	<2	28

BASMET11.XLS

Sample	FROM	TO	Cu	Mo	Ag	Pb	Zn
	m	m	ppm	ppm	ppm	ppm	ppm
627806	23.0	26.0	4	<1	<0.2	<2	20
627844	77.0	80.0	28	6	<0.2	<2	14
627845	80.0	83.0	11	1	<0.2	2	14
627846	83.0	86.0	25	2	0.2	2	14
627847	86.0	89.0	8	10	<0.2	<2	12
627807	112.0	115.0	341	66	0.2	2	18
627808	115.0	118.0	36	4	<0.2	<2	22
627809	118.0	121.0	315	33	0.2	2	24
627810	121.0	124.0	73	2	<0.2	2	28
627796	124.0	127.0	155	7	0.2	4	22
627797	127.0	130.0	89	<1	<0.2	<2	22
627798	130.0	133.0	920	353	0.8	2	8
627799	133.0	136.0	494	30	0.4	<2	16
627800	136.0	139.0	385	28	0.2	4	14
627801	139.0	142.0	10000	72	11.8	2	16
627802	142.0	145.7	624	7	0.2	<2	30
627803	145.7	149.0	96	30	<0.2	2	20
627804	149.0	152.0	389	10	0.2	2	20
627805	152.0	155.0	1307	31	0.8	4	34
627811	155.0	158.0	205	1	0.2	<2	26
627812	158.0	161.0	129	1	<0.2	<2	26
627813	161.0	164.0	276	2	0.2	<2	32
627814	164.0	167.0	79	<1	<0.2	2	34
627815	167.0	170.0	540	<1	0.4	<2	40
627825	170.0	171.0	24	<1	<0.2	<2	36
627816	171.0	173.0	762	<1	0.4	<2	44
627817	173.0	176.0	56	1	<0.2	<2	38
627818	176.0	179.0	151	1	0.2	2	34
627819	179.0	182.0	161	1	<0.2	<2	26
627820	182.0	185.0	287	29	0.2	2	26
627821	185.0	188.0	182	3	<0.2	2	24
627822	188.0	191.0	456	9	0.4	2	38
627823	191.0	194.0	221	87	0.2	2	30
627824	194.0	197.0	289	7	0.2	<2	34
627826	197.0	200.0	1618	189	1.2	<2	24
627827	200.0	203.0	1129	191	0.8	<2	20
627828	203.0	206.0	1987	30	1.6	2	20
627829	206.0	209.0	5122	62	3.2	4	22
627830	209.0	212.0	77	1	0.2	2	34
627831	212.0	215.0	83	2	<0.2	2	32
627834	221.0	224.0	165	1	0.2	2	42
627835	272.0	275.0	43	1	0.2	2	38
627836	275.0	278.0	37	1	<0.2	2	38
627837	278.0	281.0	413	2	0.4	2	30
627840	281.0	284.0	2331	7	2.0	<2	32
627841	284.0	287.0	160	10	0.2	<2	32
627838	287.0	290.0	308	1	0.2	2	28
627839	290.0	293.0	310	1	0.2	2	32
627842	293.0	296.0	433	3	0.4	<2	28
627843	296.0	299.0	750	25	0.6	<2	28

BASMET12.XLS

Sample	FROM	TO	Cu	Mo	Ag	Pb	Zn
	m	m	ppm	ppm	ppm	ppm	ppm
627848	74.1	77.7	495	16	0.4	4	<2
627849	77.7	81.1	846	4	0.6	2	<2
627850	117.0	118.0	1279	30	2.6	<2	8

BASMET13.XLS

Sample	FROM	TO	Cu	Mo	Ag	Pb	Zn
	m	m	ppm	ppm	ppm	ppm	ppm
627851	160.0	163.0	69	<1	<0.2	2	16
627852	163.0	166.0	30	<1	<0.2	6	18
627853	166.0	169.0	181	<1	<0.2	10	16
627854	169.0	172.0	14	<1	<0.2	<2	26
627855	172.0	175.0	11	<1	<0.2	4	16
627856	175.0	178.0	11	<1	<0.2	4	6
627857	178.0	181.2	90	<1	<0.2	10	20
627858	184.0	187.0	41	<1	0.2	4	28
627859	189.0	192.0	155	4	0.2	4	28
627860	192.0	195.0	107	<1	0.2	4	22
627861	195.0	197.2	398	<1	0.6	<2	22
627862	201.0	204.0	4	<1	0.2	<2	22
627863	205.0	208.0	3	<1	<0.2	6	20
627864	208.0	211.0	3	1	<0.2	2	18
627865	211.0	214.0	2	<1	<0.2	6	20
627866	214.0	217.0	3	<1	<0.2	<2	18
627867	217.0	220.0	2	<1	<0.2	4	20
627868	220.0	223.0	2	<1	<0.2	8	22
627869	223.0	226.0	4	<1	<0.2	4	20
627870	226.0	228.0	4	<1	<0.2	4	24
627871	246.0	249.0	6	<1	<0.2	4	22
627872	249.0	252.0	12	<1	<0.2	<2	22
627873	252.0	255.0	71	<1	<0.2	6	22
627874	255.0	256.0	50	<1	<0.2	<2	36

Sample	FROM	TO	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	Zn
	m	m	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
627525	45.0	48.0	<0.2	1.07	4	70	<0.5	<2	0.98	<0.5	6	60	271	1.79	<10	<1	0.15	<10	0.52	245	<1	0.08	4	440	6	<2	1	97	0.07	<10	<10	57	28
627526	48.0	51.0	<0.2	1.26	6	70	<0.5	<2	1.16	<0.5	6	66	119	1.97	<10	<1	0.14	<10	0.58	250	1	0.10	6	530	<2	<2	2	93	0.09	<10	<10	67	30
627527	51.0	54.0	<0.2	1.07	4	60	<0.5	<2	1.00	<0.5	7	57	73	1.97	<10	<1	0.15	<10	0.52	225	<1	0.09	3	540	<2	<2	1	81	0.10	<10	<10	70	28
627528	54.0	57.0	<0.2	1.34	12	70	<0.5	<2	1.18	<0.5	6	68	76	2.04	<10	<1	0.16	<10	0.59	245	<1	0.11	6	550	2	<2	2	81	0.10	<10	<10	71	28
627529	57.0	60.0	<0.2	1.32	4	70	<0.5	<2	1.45	<0.5	7	75	51	2.06	<10	<1	0.19	<10	0.58	240	<1	0.10	6	530	<2	<2	2	86	0.12	<10	<10	73	26
627530	83.0	86.0	<0.2	1.16	<2	80	<0.5	<2	0.98	<0.5	8	86	55	2.13	<10	<1	0.20	<10	0.55	240	<1	0.11	7	540	<2	<2	1	62	0.14	<10	<10	79	30
627531	86.0	89.0	<0.2	1.52	4	80	<0.5	<2	1.21	<0.5	7	76	291	2.12	<10	<1	0.16	<10	0.62	270	1	0.11	6	560	2	2	2	128	0.12	<10	<10	75	30
627532	89.0	92.0	<0.2	1.56	6	120	<0.5	<2	1.19	<0.5	8	64	299	2.12	<10	<1	0.20	<10	0.59	225	1	0.13	7	530	<2	<2	2	183	0.12	<10	<10	76	26
627533	92.0	95.0	<0.2	1.44	8	80	<0.5	<2	1.25	<0.5	7	76	68	1.94	<10	<1	0.18	<10	0.53	235	<1	0.13	6	520	<2	<2	1	88	0.11	<10	<10	70	26
627534	95.0	98.0	<0.2	1.34	8	70	<0.5	<2	1.18	<0.5	6	66	60	1.91	<10	<1	0.16	<10	0.50	225	<1	0.10	4	500	<2	<2	1	70	0.11	<10	<10	69	26
627535	98.0	101.0	<0.2	1.47	8	60	<0.5	<2	1.43	<0.5	5	62	63	1.85	<10	<1	0.13	<10	0.52	220	<1	0.11	5	500	4	<2	1	79	0.09	<10	<10	64	22
627536	101.0	104.0	<0.2	1.81	6	120	<0.5	<2	1.41	<0.5	6	65	37	1.83	<10	<1	0.14	<10	0.46	200	<1	0.16	5	490	4	<2	1	221	0.10	<10	<10	67	20
627537	109.0	112.0	<0.2	1.77	6	70	<0.5	<2	1.41	<0.5	6	64	225	1.97	<10	<1	0.16	<10	0.53	240	<1	0.15	4	530	<2	<2	2	70	0.10	<10	<10	72	28
627538	112.0	115.0	<0.2	1.38	<2	100	<0.5	<2	1.08	<0.5	6	95	88	2.12	<10	<1	0.21	<10	0.54	240	<1	0.12	5	550	<2	<2	2	79	0.12	<10	<10	77	28
627539	120.0	123.0	<0.2	2.00	<2	70	<0.5	<2	1.53	<0.5	6	66	50	1.97	<10	<1	0.16	<10	0.55	240	<1	0.16	6	520	<2	<2	2	94	0.10	<10	<10	72	28
627540	123.0	126.0	<0.2	2.57	<2	60	<0.5	<2	2.15	<0.5	6	62	73	1.84	<10	<1	0.12	<10	0.58	250	<1	0.19	4	510	2	2	2	129	0.08	<10	<10	64	30
627541	126.0	129.0	<0.2	1.92	<2	60	<0.5	<2	1.53	<0.5	4	61	170	1.86	<10	<1	0.09	<10	0.46	220	<1	0.17	4	540	2	4	1	90	0.07	<10	<10	64	26
627542	129.0	132.0	<0.2	1.64	10	90	<0.5	<2	1.41	<0.5	7	55	153	2.06	<10	<1	0.13	<10	0.49	230	<1	0.13	5	530	12	<2	1	137	0.08	<10	<10	67	30
627543	132.0	135.0	<0.2	2.00	<2	70	<0.5	<2	1.59	<0.5	6	50	95	1.76	<10	<1	0.10	<10	0.48	230	1	0.16	4	460	<2	<2	1	127	0.07	<10	<10	60	26
627544	135.0	138.0	0.2	1.15	<2	80	<0.5	<2	0.96	<0.5	6	44	233	1.99	<10	<1	0.14	<10	0.46	210	<1	0.09	5	560	4	<2	1	84	0.10	<10	<10	72	26
627545	138.0	141.0	<0.2	1.38	<2	70	<0.5	<2	1.17	<0.5	7	55	229	2.09	<10	<1	0.15	<10	0.62	265	<1	0.08	7	550	4	<2	2	61	0.12	<10	<10	72	34
627546	141.0	145.0	<0.2	1.22	2	60	<0.5	<2	1.15	<0.5	7	53	129	1.75	<10	<1	0.12	<10	0.51	235	<1	0.09	4	460	4	2	1	80	0.09	<10	<10	58	28
627547	145.0	147.0	<0.2	1.24	<2	50	<0.5	<2	1.23	<0.5	7	57	132	2.02	<10	<1	0.09	<10	0.50	225	<1	0.09	4	550	4	<2	1	80	0.10	<10	<10	70	28
627548	147.0	150.0	<0.2	1.31	<2	40	<0.5	<2	1.50	<0.5	6	48	116	1.86	<10	<1	0.08	<10	0.60	275	<1	0.08	6	530	4	<2	2	83	0.06	<10	<10	60	32
627549	150.0	153.0	<0.2	1.34	<2	30	<0.5	<2	1.59	<0.5	7	61	61	2.00	<10	<1	0.10	<10	0.69	310	<1	0.08	5	530	6	<2	2	73	0.10	<10	<10	66	36
627550	153.0	156.0	<0.2	1.43	<2	20	<0.5	<2	1.53	<0.5	8	45	73	1.98	<10	<1	0.08	<10	0.72	315	<1	0.08	5	580	6	<2	2	60	0.10	<10	<10	64	36
627551	156.0	159.0	0.2	1.30	10	40	<0.5	<2	1.31	<0.5	7	59	85	2.06	<10	<1	0.10	<10	0.59	280	1	0.09	6	560	2	<2	2	70	0.12	<10	<10	73	32
627552	159.0	162.0	<0.2	1.08	<2	40	<0.5	<2	1.15	<0.5	7	56	54	1.97	<10	<1	0.11	<10	0.54	260	<1	0.07	4	550	8	<2	1	49	0.11	<10	<10	69	32
627553	180.0	183.0	<0.2	1.12	<2	100	<0.5	<2	0.86	<0.5	7	48	38	2.02	<10	<1	0.20	<10	0.50	230	<1	0.11	4	580	2	<2	1	84	0.10	<10	<10	71	26
627554	183.0	186.0	<0.2	0.97	<2	100	<0.5	<2	0.84	<0.5	6	55	74	1.95	<10	<1	0.18	<10	0.49	230	<1	0.09	5	560	6	2	1	118	0.09	<10	<10	68	26
627555	186.0	189.0	<0.2	1.49	<2	80	<0.5	<2	1.51	<0.5	6	46	237	1.95	<10	<1	0.13	<10	0.54	245	<1	0.12	4	550	6	2	2	135	0.09	<10	<10	68	28
627556	189.0	192.0	<0.2	0.89	4	90	<0.5	<2	0.78	<0.5	6	70	266	1.92	<10	<1	0.19	<10	0.46	215	<1	0.09	6	530	<2	<2	1	72	0.10	<10	<10	68	26
627557	192.0	195.0	<0.2	1.43	4	90	<0.5	<2	1.18	<0.5	7	62	90	2.00	<10	<1	0.13	<10	0.56	255	<1	0.14	4	560	<2	<2	2	167	0.11	<10	<10	70	32
627558	195.0	198.0	<0.2	1.25	8	90	<0.5	<2	1.09	<0.5	7	75	73	2.08	<10	<1	0.13	<10	0.55	265	<1	0.12	4	570	<2	<2	2	147	0.10	<10	<10	72	32
627559	198.0	201.0	<0.2	1.17	<2	60	<0.5	<2	1.13	<0.5	7	55	228	1.94	<10	<1	0.12	<10	0.56	265	<1	0.10	6	530	<2	<2	2	74	0.11	<10	<10	66	34
627560	201.0	204.0	0.2	1.05	<2	60	<0.5	<2	0.96	<0.5	7	85	147	2.09	<10	<1	0.12	<10	0.55	255	<1	0.10	7	570	<2	<2	1	64	0.12	<10	<10	73	32
627561	204.0	207.0	<0.2	1.15	<2	30	<0.5	<2	1.99	<0.5	7	64	63	1.82	<10	<1	0.13	<10	0.57	290	<1	0.09	4	510	2	2	2	54	0.08	<10	<10	58	34
627562	207.0	210.0	0.4	1.43	<2	70	<0.5	<2	1.32	<0.5	7	61	232	1.93	<10	<1	0.19	<10	0.50	245	<1	0.11	5	530	<2	<2	2	56	0.12	<10	<10	68	30
627563	210.0	213.0	0.2	1.10	<2	80	<0.5	<2	0.87	<0.5	6	83	66	2.05	<10	<1	0.17	<10	0.53	255	<1	0.11	5	540	2	2	2	59	0.12	<10	<10	73	32
627564	213.0	216.0	0.2	1.05	<2	70	<0.5	<2	0.94	<0.5	7	68	163	2.08	<10	<1	0.15	<10	0.53	250	<1	0.09	4	580	<2	<2	1	58	0.12	<10	<10	74	32
627565	216.0	219.0	<0.2	1.53	<2	30	<0.5	<2	1.61	<0.5	6	60	27	1.83	10	<1	0.14	<10	0.60	255	<1	0.10	5	500	<2	<2	2	60	0.09	<10	<10	60	26
627566	219.0	222.0	<0.2	1.48	<2	30	<0.5	<2	1.44	<0.5	8	51	36	1.94	<10	<1	0.09	<10	0.67	280	1	0.07	6	610	4	<2	2	54	0.09	<10	<10	63	32
627567	222.0	225.0	<0.2	2.04	<2	30	0.5	<2	1.86	<0.5	8	57	44	2.08	10	<1	0.11	<10	0.91	375	<1	0.10	7	600	<2	<2	3	65	0.10	<10	<10	64	42

Sample	I	TO	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe		Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl		V	Zn
	m	m	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
627501	12.0	15.0	<0.2	1.07	<2	100	<0.5	<2	0.93	<0.5	8	76	281	2.22	<10	<1	0.22	<10	0.64	285	<1	0.08	7	620	2	<2	2	71	0.11	<10	<10	76	34
627502	15.0	18.0	<0.2	0.86	2	120	<0.5	<2	0.71	<0.5	6	77	114	2.14	<10	<1	0.26	<10	0.51	215	1	0.10	4	570	<2	<2	1	63	0.12	<10	<10	78	26
627503	18.0	21.0	0.2	0.88	<2	130	<0.5	<2	0.78	<0.5	6	77	1256	2.06	<10	<1	0.26	<10	0.50	210	1	0.10	6	540	<2	2	1	56	0.11	<10	<10	75	26
627504	21.0	24.0	<0.2	1.12	2	140	<0.5	<2	0.87	<0.5	6	85	161	2.14	<10	<1	0.24	<10	0.54	235	<1	0.11	5	580	<2	<2	1	80	0.11	<10	<10	77	28
627505	24.0	27.0	<0.2	1.38	2	110	<0.5	<2	1.84	<0.5	8	62	526	2.20	<10	<1	0.19	<10	0.62	280	<1	0.07	7	570	2	2	3	74	0.07	<10	<10	72	34
627506	27.0	30.0	<0.2	1.20	10	130	<0.5	<2	1.05	<0.5	8	72	71	2.05	<10	<1	0.23	<10	0.60	255	<1	0.09	6	560	2	<2	2	70	0.12	<10	<10	74	28
627507	30.0	33.0	<0.2	1.33	<2	160	<0.5	<2	1.13	<0.5	7	64	135	2.27	<10	<1	0.28	<10	0.60	250	1	0.10	6	620	<2	<2	2	106	0.13	<10	<10	84	30
627508	33.0	36.0	<0.2	0.96	<2	160	<0.5	<2	0.79	<0.5	7	83	79	2.17	<10	<1	0.28	<10	0.54	235	<1	0.11	7	530	<2	<2	2	98	0.12	<10	<10	80	26
627509	36.0	39.0	<0.2	1.06	8	150	<0.5	<2	0.88	<0.5	8	67	233	2.31	<10	<1	0.31	<10	0.60	260	<1	0.10	5	590	<2	<2	2	76	0.13	<10	<10	85	30
627510	39.0	42.0	<0.2	1.38	4	110	<0.5	<2	1.16	<0.5	8	76	296	2.33	<10	<1	0.23	<10	0.69	290	<1	0.10	6	610	<2	<2	2	88	0.13	<10	<10	82	30
627511	42.0	45.0	<0.2	1.20	8	120	<0.5	<2	0.84	<0.5	6	72	55	2.09	<10	<1	0.26	<10	0.52	215	<1	0.11	6	570	2	<2	1	78	0.12	<10	<10	78	24
627512	45.0	48.0	<0.2	1.01	4	130	<0.5	<2	0.81	<0.5	7	82	66	2.19	<10	<1	0.26	<10	0.53	230	<1	0.11	6	590	4	<2	1	79	0.12	<10	<10	81	28
627513	48.0	51.0	<0.2	1.37	2	80	<0.5	<2	1.40	<0.5	6	54	97	1.98	<10	<1	0.18	<10	0.64	250	<1	0.09	6	590	<2	2	1	91	0.10	<10	<10	67	30
627514	51.0	54.0	<0.2	1.14	6	120	<0.5	<2	0.94	<0.5	7	65	54	2.06	<10	<1	0.27	<10	0.58	225	<1	0.09	6	580	<2	<2	1	77	0.10	<10	<10	73	26
627515	54.0	57.0	<0.2	1.01	<2	130	<0.5	<2	0.71	<0.5	7	67	127	2.20	<10	<1	0.28	<10	0.56	215	<1	0.10	5	630	<2	<2	1	66	0.12	<10	<10	80	24
627516	57.0	60.0	<0.2	2.19	4	110	<0.5	<2	1.78	<0.5	7	62	64	2.02	<10	<1	0.17	<10	0.62	250	<1	0.17	5	560	4	<2	2	102	0.09	<10	<10	70	26
627517	142.0	145.2	0.2	1.36	6	90	<0.5	<2	1.44	<0.5	8	68	656	2.06	<10	<1	0.17	<10	0.68	285	<1	0.10	6	550	8	2	2	88	0.08	<10	<10	69	30
627518	145.2	147.0	<0.2	1.38	<2	110	<0.5	<2	1.22	<0.5	7	85	264	2.12	<10	<1	0.18	<10	0.61	265	<1	0.14	6	590	<2	<2	2	106	0.11	<10	<10	75	32
627519	147.0	150.0	<0.2	1.56	<2	70	<0.5	<2	1.28	<0.5	7	78	229	2.13	<10	<1	0.15	<10	0.73	290	<1	0.12	7	560	2	<2	2	85	0.11	<10	<10	71	36
627520	150.0	153.0	<0.2	1.53	6	50	<0.5	<2	1.59	<0.5	8	82	69	1.93	<10	<1	0.15	<10	0.72	290	<1	0.10	6	530	<2	2	2	121	0.11	<10	<10	63	36
627521	153.0	156.0	<0.2	1.23	6	70	<0.5	<2	1.21	<0.5	7	55	132	1.96	<10	<1	0.15	<10	0.61	265	<1	0.08	6	530	4	<2	2	58	0.11	<10	<10	70	32
627522	156.0	159.0	0.2	1.11	6	80	<0.5	<2	1.03	<0.5	6	57	472	1.98	<10	<1	0.17	<10	0.54	240	<1	0.10	5	530	<2	<2	1	62	0.11	<10	<10	71	28
627523	159.0	162.0	<0.2	1.54	<2	90	<0.5	<2	1.76	<0.5	6	51	210	2.05	<10	<1	0.15	<10	0.72	315	<1	0.09	5	540	2	2	3	76	0.10	<10	<10	70	34
627524	200.0	201.0	<0.2	1.41	<2	70	<0.5	<2	1.28	<0.5	7	85	141	2.07	<10	<1	0.18	<10	0.64	265	<1	0.12	6	510	<2	<2	2	61	0.13	<10	<10	76	32

Sample	FROM	TO	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	[illegible]	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	[illegible]	V	Zn
	m	m	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
627568	135.0	138.0	0.2	1.31	4	80	<0.5	<2	1.09	<0.5	7	76	78	2.16	<10	<1	0.22	10	0.60	280	<1	0.11	7	590	<2	<2	2	66	0.12	<10	<10	70	34
627569	140.0	143.0	0.2	1.25	<2	60	<0.5	<2	1.03	<0.5	6	73	191	2.00	<10	<1	0.18	10	0.54	260	<1	0.15	5	540	<2	<2	2	60	0.10	<10	<10	64	32
627570	164.0	167.0	0.2	0.94	2	40	<0.5	<2	0.79	<0.5	6	70	188	1.79	<10	<1	0.16	10	0.51	240	<1	0.08	5	430	2	<2	1	29	0.09	<10	<10	57	32
627571	172.5	175.5	0.2	1.22	<2	40	<0.5	<2	0.98	<0.5	6	50	169	1.81	<10	<1	0.12	10	0.54	255	<1	0.10	5	470	2	<2	2	58	0.08	<10	<10	56	32
627572	179.0	182.0	0.2	1.52	<2	50	<0.5	<2	1.17	<0.5	6	55	96	1.93	<10	<1	0.14	10	0.57	270	<1	0.09	5	440	2	<2	2	59	0.08	<10	<10	53	34
627573	182.0	185.0	0.2	1.55	<2	40	<0.5	<2	1.41	<0.5	7	69	174	1.90	<10	<1	0.14	10	0.62	280	1	0.10	7	480	2	<2	2	59	0.10	<10	<10	58	34
627574	185.0	188.0	0.2	1.78	<2	40	<0.5	<2	1.47	<0.5	6	50	195	1.81	<10	<1	0.12	10	0.61	270	2	0.09	5	470	2	<2	2	50	0.09	<10	<10	55	32
627575	190.0	193.0	0.2	1.10	2	80	<0.5	<2	0.93	<0.5	6	81	231	1.92	<10	<1	0.20	10	0.49	230	<1	0.09	6	470	<2	<2	2	35	0.12	<10	<10	63	28
627576	193.0	196.0	0.2	1.17	<2	90	<0.5	<2	0.92	<0.5	6	88	464	1.90	<10	<1	0.21	10	0.49	230	<1	0.10	6	450	<2	<2	2	40	0.12	<10	<10	62	32
627577	196.0	199.0	0.2	0.95	<2	100	<0.5	<2	0.79	<0.5	5	84	107	1.88	<10	<1	0.21	10	0.47	215	<1	0.09	6	460	<2	<2	1	33	0.12	<10	<10	61	26
627578	218.0	221.0	0.2	1.22	<2	80	<0.5	<2	1.03	<0.5	7	89	293	2.00	<10	<1	0.23	10	0.58	265	<1	0.13	7	490	<2	<2	2	42	0.12	<10	<10	65	32
627579	223.0	224.0	0.2	0.98	<2	120	<0.5	2	0.75	<0.5	6	87	218	2.04	<10	<1	0.27	10	0.53	250	<1	0.12	6	480	2	<2	2	45	0.12	<10	<10	65	30
627580	227.0	228.0	0.2	1.06	<2	140	<0.5	<2	0.72	<0.5	6	97	286	2.01	<10	<1	0.31	10	0.53	250	<1	0.14	7	470	6	<2	2	50	0.12	<10	<10	64	32
627581	235.5	236.5	0.2	1.28	4	50	<0.5	2	1.18	<0.5	7	78	413	1.93	<10	<1	0.14	10	0.61	275	<1	0.11	6	480	2	<2	2	38	0.12	<10	<10	59	32
627582	237.5	239.5	0.2	1.06	<2	50	<0.5	<2	2.57	<0.5	7	104	204	1.77	<10	<1	0.22	10	0.61	340	<1	0.05	7	470	<2	<2	2	49	<0.01	<10	<10	41	34
627584	242.0	245.0	0.4	0.88	<2	40	<0.5	<2	1.04	<0.5	7	67	764	1.97	<10	<1	0.13	10	0.60	255	<1	0.07	6	460	2	<2	2	26	0.06	<10	<10	55	28
627585	245.0	248.0	0.4	1.10	<2	40	<0.5	<2	1.55	<0.5	7	69	746	1.98	<10	<1	0.15	10	0.68	295	9	0.07	7	490	2	<2	3	38	0.04	<10	<10	49	34
627586	248.0	251.0	0.2	1.19	<2	40	<0.5	<2	1.50	<0.5	7	69	355	1.90	<10	<1	0.17	10	0.58	285	2	0.07	6	460	<2	<2	2	34	0.06	<10	<10	48	30
627587	254.0	257.0	0.6	1.16	2	60	<0.5	<2	1.23	<0.5	7	74	1171	2.02	<10	<1	0.15	10	0.65	265	<1	0.11	7	470	2	2	2	44	0.08	<10	<10	58	28
627588	257.0	260.0	0.6	1.08	<2	120	<0.5	<2	1.68	<0.5	7	69	1239	1.96	<10	<1	0.17	10	0.63	275	<1	0.06	6	480	2	<2	2	50	0.06	<10	<10	52	32
627589	260.0	263.0	0.4	1.01	4	70	<0.5	<2	1.30	<0.5	7	73	538	1.94	<10	<1	0.15	10	0.60	275	<1	0.08	7	470	<2	2	2	37	0.09	<10	<10	57	30
627590	230.0	231.0	0.2	1.08	<2	80	<0.5	<2	0.99	<0.5	7	74	263	1.87	<10	<1	0.17	10	0.58	270	<1	0.09	6	440	<2	<2	2	92	0.10	<10	<10	57	34
627714	48.0	51.0	<0.2	1.54	2	60	<0.5	<2	2.17	<0.5	7	114	369	1.96	<10	<1	0.21	<10	0.70	335	1	0.09	7	470	6	<2	3	45	0.11	<10	<10	61	34
627715	51.0	54.0	<0.2	1.53	<2	90	<0.5	<2	1.49	<0.5	8	102	546	2.07	<10	<1	0.20	<10	0.71	325	1	0.12	6	500	<2	<2	3	48	0.12	<10	<10	68	38
627716	54.0	57.0	<0.2	1.43	<2	170	<0.5	4	1.53	<0.5	7	97	628	1.97	<10	<1	0.18	<10	0.60	275	2	0.13	6	450	<2	<2	2	87	0.12	<10	<10	66	28
627717	57.0	60.0	<0.2	2.01	<2	40	<0.5	<2	2.46	<0.5	8	101	457	1.92	<10	<1	0.20	<10	0.75	335	1	0.10	5	490	<2	<2	3	53	0.11	<10	<10	58	32
627718	60.0	63.0	<0.2	1.78	<2	80	<0.5	<2	2.01	<0.5	8	76	544	1.89	<10	<1	0.17	<10	0.70	310	1	0.10	6	470	<2	2	3	58	0.10	<10	<10	63	30
627719	63.0	66.0	<0.2	1.60	<2	170	<0.5	<2	2.15	<0.5	7	132	549	1.97	<10	<1	0.27	<10	0.61	290	<1	0.13	6	480	<2	<2	2	102	0.11	<10	<10	66	30
627720	66.0	69.0	<0.2	1.83	<2	40	<0.5	<2	2.04	<0.5	8	112	384	1.93	10	<1	0.22	<10	0.66	300	1	0.10	5	460	<2	2	3	50	0.09	<10	<10	59	32
627721	69.0	72.0	<0.2	2.05	<2	60	<0.5	2	2.06	<0.5	7	113	146	1.85	10	<1	0.19	<10	0.63	280	<1	0.12	4	430	<2	4	3	63	0.13	<10	<10	61	28
627722	72.0	75.0	<0.2	1.70	<2	120	<0.5	<2	2.03	<0.5	6	115	84	1.77	10	<1	0.20	<10	0.57	270	1	0.10	5	420	<2	2	3	135	0.11	<10	<10	59	26
627723	221.0	223.0	<0.2	0.99	<2	120	<0.5	<2	0.75	<0.5	7	158	227	2.23	<10	<1	0.32	<10	0.57	270	1	0.16	7	470	<2	<2	2	48	0.14	<10	<10	76	28
627724	224.0	227.0	<0.2	1.00	2	120	<0.5	<2	0.76	<0.5	6	129	213	1.91	<10	<1	0.28	<10	0.48	230	1	0.13	5	420	4	2	1	55	0.11	<10	<10	64	28
627725	228.0	230.0	<0.2	0.94	<2	150	<0.5	<2	0.62	<0.5	6	168	142	1.94	<10	<1	0.35	<10	0.50	240	1	0.15	6	380	<2	2	1	61	0.11	<10	<10	64	30
627726	231.0	233.0	<0.2	0.97	<2	100	<0.5	2	0.71	<0.5	6	135	179	1.83	<10	<1	0.23	<10	0.47	225	<1	0.12	4	420	<2	<2	1	44	0.10	<10	<10	60	26
627727	233.0	235.5	<0.2	1.08	<2	90	<0.5	<2	0.85	<0.5	8	147	207	1.94	<10	<1	0.23	<10	0.50	225	1	0.14	5	450	4	<2	1	38	0.11	<10	<10	64	28
627728	236.5	237.5	<0.2	1.04	<2	60	<0.5	<2	1.31	<0.5	7	121	224	1.92	<10	<1	0.19	<10	0.66	300	1	0.10	7	460	<2	<2	3	35	0.09	<10	<10	60	32
627729	239.5	242.0	<0.2	1.07	<2	50	<0.5	<2	1.74	<0.5	7	119	288	1.93	<10	<1	0.17	<10	0.64	300	1	0.09	4	460	2	<2	3	38	0.04	<10	<10	56	30
627730	251.0	254.0	<0.2	1.04	<2	90	<0.5	<2	0.99	<0.5	6	128	102	1.96	<10	<1	0.19	<10	0.53	220	1	0.11	5	480	<2	<2	2	45	0.12	<10	<10	66	22
627731	263.0	266.0	0.2	1.51	<2	60	<0.5	4	1.64	<0.5	8	115	631	1.99	<10	<1	0.19	<10	0.69	295	18	0.11	5	480	<2	<2	3	84	0.11	<10	<10	61	30
627732	266.0	269.0	<0.2	1.39	<2	70	<0.5	4	1.34	<0.5	7	117	146	1.97	<10	<1	0.18	<10	0.61	275	1	0.12	6	480	4	<2	2	65	0.11	<10	<10	64	34

Sample	[illegible]	TO	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	[illegible]	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	[illegible]	V	Zn
	m	m	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
627591	39.0	42.0	0.2	1.88	2	60	<0.5	<2	1.69	<0.5	7	51	233	2.08	<10	<1	0.13	10	0.60	245	<1	0.08	9	570	2	<2	2	127	0.10	<10	<10	73	28
627592	42.0	45.0	0.4	1.52	<2	80	<0.5	<2	1.62	<0.5	8	52	410	2.12	<10	<1	0.14	10	0.70	275	<1	0.09	9	580	<2	<2	2	227	0.07	<10	<10	68	34
627593	45.0	48.0	0.4	1.54	<2	90	<0.5	<2	1.37	<0.5	7	60	519	2.19	<10	<1	0.22	10	0.63	245	<1	0.07	8	580	<2	<2	2	136	0.11	<10	<10	78	30
627594	57.0	60.0	0.2	1.82	<2	20	<0.5	<2	2.08	<0.5	9	67	91	2.15	<10	<1	0.14	10	0.93	320	<1	0.06	10	550	<2	<2	3	75	0.11	<10	<10	64	38
627595	60.0	63.0	0.4	1.70	2	60	<0.5	<2	1.74	<0.5	8	79	120	2.20	<10	<1	0.14	10	0.73	285	<1	0.10	10	550	2	2	2	145	0.12	<10	<10	74	34
627596	63.0	66.0	0.2	1.81	<2	20	<0.5	<2	2.26	<0.5	8	69	93	2.11	<10	<1	0.11	10	0.81	305	<1	0.07	9	530	<2	<2	3	56	0.14	<10	<10	70	34
627597	67.0	68.0	0.2	1.75	2	30	<0.5	<2	1.61	<0.5	7	71	68	2.03	<10	<1	0.10	10	0.62	270	<1	0.10	10	520	2	<2	2	67	0.11	<10	<10	70	30
627598	75.0	77.0	0.2	2.08	4	10	<0.5	<2	2.08	<0.5	10	64	107	2.05	<10	<1	0.10	10	1.12	395	<1	0.04	14	490	<2	2	4	59	0.09	<10	<10	58	46
627599	77.0	79.0	0.2	1.61	<2	10	<0.5	<2	2.36	<0.5	10	90	40	2.12	<10	<1	0.12	10	1.02	395	<1	0.06	12	500	2	<2	4	44	0.11	<10	<10	63	40
627600	79.0	82.0	0.2	1.79	<2	20	<0.5	<2	2.49	<0.5	10	54	77	2.25	<10	<1	0.12	10	0.99	395	<1	0.06	12	570	<2	2	5	54	0.07	<10	<10	67	40
627601	99.0	102.0	0.2	2.38	2	20	0.5	<2	2.26	<0.5	9	67	78	2.04	<10	<1	0.11	10	0.88	340	<1	0.08	11	530	<2	<2	3	69	0.11	<10	<10	63	38
627602	126.5	127.5	0.2	1.58	<2	40	<0.5	<2	1.47	<0.5	7	82	65	1.95	<10	<1	0.13	10	0.71	290	<1	0.09	8	490	2	<2	2	46	0.14	<10	<10	65	34
627603	155.0	157.0	0.2	1.56	<2	60	<0.5	<2	1.48	<0.5	7	106	75	2.22	<10	<1	0.17	10	0.62	255	<1	0.11	10	540	<2	<2	2	60	0.14	<10	<10	78	30
627604	157.0	159.0	0.2	1.84	<2	50	<0.5	<2	1.63	<0.5	8	102	283	2.15	<10	<1	0.14	10	0.81	330	<1	0.11	11	510	2	<2	3	73	0.12	<10	<10	69	36
627605	159.2	162.2	0.4	1.23	<2	120	<0.5	<2	1.09	<0.5	7	98	528	2.16	<10	<1	0.25	10	0.63	255	<1	0.11	10	490	<2	<2	2	53	0.14	<10	<10	74	30
627606	172.0	175.0	0.4	2.06	4	80	<0.5	2	1.92	<0.5	9	92	321	2.39	10	<1	0.29	30	0.74	315	<1	0.15	5	550	8	4	4	61	0.23	<10	<10	84	34
627607	175.0	178.0	0.8	1.84	2	80	<0.5	2	1.69	<0.5	9	110	306	2.50	10	<1	0.29	30	0.79	335	1	0.15	9	580	6	6	4	59	0.25	<10	<10	86	34
627608	178.0	181.0	0.4	1.60	18	110	<0.5	4	1.39	<0.5	10	108	407	2.41	<10	<1	0.34	30	0.72	310	1	0.19	7	550	4	6	3	53	0.24	<10	<10	85	32
627609	181.0	183.0	0.4	1.74	<2	90	<0.5	4	1.58	<0.5	10	104	597	2.45	10	<1	0.32	30	0.73	305	<1	0.15	6	550	<2	6	3	48	0.23	<10	<10	82	32
627610	183.0	185.0	0.6	1.88	<2	60	<0.5	8	1.56	<0.5	11	98	518	2.46	10	<1	0.28	30	0.88	350	<1	0.14	7	540	6	6	4	66	0.21	<10	<10	86	36
627611	185.0	187.0	0.6	1.49	<2	70	<0.5	4	1.28	<0.5	10	114	465	2.40	10	<1	0.28	30	0.79	320	<1	0.14	9	570	2	4	4	44	0.23	<10	<10	84	32
627612	187.0	189.4	1.8	1.90	<2	60	<0.5	4	3.17	<0.5	10	86	3841	2.29	20	<1	0.32	40	0.69	325	1	0.12	12	510	<2	4	4	73	0.16	<10	<10	74	30
627761	189.0	190.0	<0.2	1.52	<2	110	<0.5	2	1.11	<0.5	6	92	286	2.03	<10	<1	0.23	<10	0.54	225	1	0.16	7	490	<2	<2	2	96	0.14	<10	<10	74	24
627613	190.0	193.0	0.2	1.95	8	80	<0.5	4	1.99	<0.5	9	86	332	2.24	10	<1	0.22	30	0.61	300	<1	0.13	8	550	4	4	3	93	0.15	<10	<10	77	24
627762	193.0	196.0	<0.2	1.11	<2	90	<0.5	2	0.87	<0.5	7	69	334	2.06	<10	<1	0.21	<10	0.57	235	<1	0.07	6	470	<2	2	1	55	0.14	<10	<10	75	26
627763	196.0	199.0	<0.2	1.29	<2	150	<0.5	<2	0.97	<0.5	7	102	300	2.04	<10	<1	0.30	<10	0.54	230	<1	0.13	6	470	<2	<2	1	101	0.13	<10	<10	74	24
627614	212.0	214.0	0.4	2.59	<2	130	<0.5	4	1.99	<0.5	9	74	325	2.26	10	<1	0.25	30	0.68	315	1	0.20	7	530	2	6	4	190	0.21	<10	<10	85	26
627615	268.0	269.0	0.2	1.70	<2	120	<0.5	<2	1.34	<0.5	8	108	193	2.37	10	<1	0.30	30	0.63	300	1	0.19	10	590	2	<2	3	83	0.24	<10	<10	86	22
627616	329.0	332.0	0.4	2.12	14	80	<0.5	<2	2.07	<0.5	11	105	390	2.59	10	<1	0.30	30	0.88	370	1	0.18	11	600	<2	2	6	62	0.22	<10	<10	92	30
627617	332.0	335.0	0.2	1.97	<2	100	<0.5	<2	1.82	<0.5	10	107	77	2.47	10	<1	0.28	30	0.76	330	1	0.18	9	640	<2	2	4	114	0.23	<10	<10	88	24
627619	354.8	355.8	0.4	2.16	12	130	<0.5	<2	1.62	<0.5	10	107	45	2.60	10	<1	0.32	30	0.76	335	1	0.26	8	630	2	2	4	88	0.26	<10	<10	95	24
627618	362.3	363.3	0.4	1.47	<2	120	<0.5	<2	1.27	<0.5	10	101	375	2.62	10	<1	0.33	30	0.76	345	3	0.19	11	660	<2	4	4	56	0.25	<10	<10	97	26
627764	363.3	364.8	<0.2	1.54	<2	110	<0.5	<2	1.24	<0.5	8	68	66	2.12	<10	<1	0.19	<10	0.60	245	1	0.11	8	540	<2	<2	2	79	0.14	<10	<10	78	28
627620	364.8	365.8	1.8	2.24	<2	70	<0.5	4	3.99	<0.5	9	73	3294	1.93	10	<1	0.60	40	0.48	350	22	0.08	7	580	<2	<2	3	67	0.06	<10	<10	54	28
627765	365.8	368.8	<0.2	1.41	<2	120	<0.5	<2	1.56	<0.5	9	84	131	2.14	<10	<1	0.16	<10	0.78	350	1	0.11	7	500	<2	<2	3	116	0.08	<10	<10	66	34
627766	368.8	371.8	<0.2	1.03	<2	30	<0.5	2	4.98	<0.5	8	30	9	1.93	<10	<1	0.17	10	0.64	555	<1	0.04	8	590	2	2	3	62	<0.01	<10	<10	33	30
627767	371.8	374.8	<0.2	1.30	<2	90	<0.5	<2	1.28	<0.5	7	71	72	1.98	<10	<1	0.16	<10	0.70	295	<1	0.11	8	510	<2	2	2	77	0.12	<10	<10	69	30
627768	374.8	378.0	<0.2	1.72	<2	80	<0.5	<2	1.70	<0.5	8	47	122	2.12	<10	<1	0.15	10	0.79	320	2	0.11	8	520	<2	<2	2	106	0.08	<10	<10	67	34
627621	378.0	380.0	0.4	1.94	<2	100	<0.5	2	1.91	<0.5	11	92	352	2.49	10	<1	0.24	30	0.84	380	7	0.15	12	630	4	2	5	121	0.20	<10	<10	89	30
627622	380.0	383.0	0.2	2.27	<2	100	<0.5	6	1.69	<0.5	10	84	159	2.56	10	<1	0.25	30	0.83	400	1	0.17	9	620	8	2	5	169	0.20	<10	<10	79	38
627623	383.0	385.0	0.4	2.27	<2	80	<0.5	4	2.24	<0.5	11	135	290	2.65	10	<1	0.34	40	0.90	405	1	0.16	10	600	<2	<2	6	89	0.23	<10	<10	90	38
627624	395.0	398.0	0.4	2.21	6	140	<0.5	<2	1.63	<0.5	10	95	235	2.44	10	<1	0.37	30	0.79	350	1	0.25	9	610	<2	2	5	109	0.24	<10	<10	86	28

Sample	M	TO	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	[illegible]	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	[illegible]	V	Zn
	m	m	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
627625	25.0	26.0	0.2	1.59	14	130	<0.5	2	1.35	<0.5	14	107	93	3.11	10	<1	0.48	20	1.09	405	1	0.20	18	690	4	2	6	55	0.32	<10	<10	120	34
627783	40.8	43.8	<0.2	1.21	<2	140	<0.5	2	1.16	<0.5	9	69	97	2.71	<10	<1	0.26	<10	0.73	300	<1	0.07	9	710	6	2	2	60	0.16	<10	<10	108	34
627784	43.8	46.8	<0.2	1.21	<2	120	<0.5	<2	1.15	<0.5	10	45	79	2.73	<10	<1	0.21	<10	0.71	285	<1	0.06	9	700	<2	<2	2	64	0.15	<10	<10	106	32
627626	46.8	47.2	0.6	2.10	12	140	<0.5	<2	1.76	<0.5	18	72	825	4.64	10	<1	0.22	20	1.08	515	1	0.27	17	860	<2	<2	8	283	0.27	<10	<10	217	48
627785	47.2	50.2	<0.2	1.24	<2	90	<0.5	<2	1.31	<0.5	9	67	113	2.82	<10	<1	0.17	<10	0.81	330	<1	0.06	7	710	<2	2	3	53	0.15	<10	<10	107	38
627786	50.2	53.2	<0.2	1.41	<2	60	<0.5	<2	1.37	<0.5	8	43	168	2.63	<10	<1	0.13	<10	0.70	265	<1	0.07	9	790	<2	<2	2	64	0.12	<10	<10	101	28
627787	53.2	54.5	<0.2	1.49	<2	80	<0.5	<2	1.29	<0.5	10	64	97	2.53	<10	<1	0.21	<10	0.74	280	<1	0.06	9	690	2	<2	2	66	0.13	<10	<10	94	32
627627	54.5	56.5	0.2	1.59	6	90	<0.5	<2	1.42	<0.5	11	89	176	2.65	10	<1	0.30	30	0.80	320	1	0.13	12	710	<2	<2	3	59	0.24	<10	<10	96	26
627628	56.5	59.5	0.2	1.45	<2	60	<0.5	4	1.42	<0.5	9	72	243	2.47	10	<1	0.25	30	0.74	305	1	0.12	9	690	4	2	3	52	0.21	<10	<10	87	24
627629	59.5	60.7	0.2	1.71	2	50	<0.5	2	1.62	<0.5	10	97	81	2.50	10	<1	0.24	30	0.78	320	1	0.11	12	630	6	<2	4	53	0.23	<10	<10	86	24
627630	61.4	64.8	0.2	2.35	4	40	0.5	<2	2.72	<0.5	10	82	315	2.53	10	<1	0.24	40	0.93	380	1	0.13	12	640	4	4	5	73	0.22	<10	<10	88	32
627631	64.8	67.4	<0.2	2.08	<2	60	<0.5	<2	2.10	<0.5	11	96	182	2.69	10	<1	0.24	30	0.93	380	<1	0.11	10	690	2	<2	5	83	0.21	<10	<10	89	30
627632	67.4	69.4	0.2	1.58	<2	70	<0.5	<2	1.48	<0.5	11	68	192	2.70	10	<1	0.26	30	0.79	335	1	0.14	10	800	<2	<2	3	87	0.23	<10	<10	97	24
627633	72.0	74.0	0.2	1.94	<2	60	<0.5	<2	1.97	0.5	11	76	170	2.66	10	<1	0.23	30	0.86	355	2	0.13	13	700	<2	2	4	98	0.25	<10	<10	99	30
627634	79.0	81.0	<0.2	1.39	<2	60	<0.5	2	1.43	<0.5	9	95	132	2.42	10	<1	0.28	30	0.75	315	2	0.12	12	610	<2	<2	3	75	0.20	<10	<10	88	28
627635	90.0	93.0	0.2	1.55	2	70	<0.5	<2	1.42	<0.5	10	97	144	2.45	10	<1	0.27	30	0.71	310	1	0.15	9	650	<2	2	3	89	0.22	<10	<10	90	24
627636	93.0	96.0	<0.2	1.82	<2	60	<0.5	2	1.93	<0.5	9	66	363	2.42	10	<1	0.22	30	0.75	305	2	0.13	13	610	<2	<2	3	123	0.20	<10	<10	86	24
627637	96.0	98.0	0.2	1.30	<2	40	<0.5	<2	1.27	<0.5	10	100	432	2.39	10	<1	0.24	30	0.74	300	1	0.11	9	570	2	<2	4	43	0.21	<10	<10	81	24
627638	98.5	99.5	<0.2	0.58	<2	30	<0.5	<2	0.48	<0.5	2	117	10	0.72	<10	<1	0.26	10	0.10	70	<1	0.09	6	80	<2	<2	<2	19	0.05	<10	<10	12	<2
627639	108.0	110.0	0.2	1.63	<2	40	<0.5	<2	1.74	<0.5	10	101	137	2.48	10	<1	0.28	30	0.84	340	<1	0.12	12	630	<2	<2	4	86	0.21	<10	<10	84	30
627640	117.0	120.0	0.2	1.48	<2	60	<0.5	<2	1.44	<0.5	10	67	176	2.37	10	<1	0.28	30	0.71	300	1	0.13	9	640	2	<2	3	54	0.24	<10	<10	87	26
627641	129.8	130.3	0.4	1.91	<2	60	<0.5	<2	1.47	<0.5	10	88	203	2.50	10	<1	0.30	30	0.69	315	1	0.21	10	670	4	<2	3	71	0.23	<10	<10	89	22
627642	142.0	145.0	0.4	1.86	<2	100	<0.5	<2	2.79	<0.5	13	93	502	2.71	10	<1	0.42	40	0.91	480	<1	0.09	14	650	<2	<2	6	98	0.08	<10	<10	75	38
627643	145.0	148.0	<0.2	1.84	<2	50	<0.5	<2	2.80	<0.5	14	96	85	2.89	10	<1	0.33	40	1.19	540	<1	0.10	18	680	6	2	6	91	0.10	<10	<10	87	40
627788	148.0	151.0	<0.2	1.83	<2	110	<0.5	<2	1.77	<0.5	9	48	196	2.47	<10	1	0.13	<10	0.93	385	<1	0.09	10	660	<2	2	3	197	0.15	<10	<10	93	34
627789	151.0	152.5	<0.2	1.15	2	90	<0.5	<2	0.89	<0.5	10	71	91	2.61	<10	<1	0.35	<10	0.77	280	<1	0.07	11	440	2	<2	2	61	0.18	<10	<10	104	30
627644	152.5	154.5	0.6	2.13	2	60	<0.5	2	1.98	<0.5	13	62	743	2.97	10	<1	0.29	30	1.01	380	6	0.14	13	750	<2	<2	4	79	0.25	<10	<10	108	36
627790	154.5	157.5	<0.2	1.43	2	60	<0.5	<2	1.24	<0.5	9	61	56	2.45	<10	<1	0.29	<10	0.78	275	1	0.08	13	500	4	2	2	57	0.18	<10	<10	99	30
627791	157.5	160.5	<0.2	1.40	<2	60	<0.5	<2	1.23	<0.5	10	99	167	2.52	<10	<1	0.30	<10	0.81	290	3	0.11	13	470	4	2	3	44	0.20	<10	<10	100	30
627645	166.0	169.0	<0.2	1.82	<2	40	<0.5	2	3.19	<0.5	13	113	99	2.46	10	<1	0.41	40	1.14	455	<1	0.08	16	580	<2	<2	5	58	0.02	<10	<10	63	38
627646	195.0	198.0	0.4	2.03	8	90	<0.5	4	2.52	<0.5	13	86	118	2.73	10	<1	0.43	30	1.07	425	1	0.11	12	710	6	2	5	66	0.11	<10	<10	88	40
627647	198.0	201.0	<0.2	2.43	2	230	<0.5	4	2.30	<0.5	13	92	265	2.87	10	<1	0.25	30	1.03	440	1	0.17	15	740	8	2	6	123	0.21	<10	<10	101	36
627792	201.0	204.0	<0.2	2.78	<2	70	<0.5	<2	4.11	<0.5	9	48	377	2.07	<10	<1	0.18	10	0.86	435	<1	0.11	11	630	4	<2	4	117	0.04	<10	<10	68	36
627793	204.0	206.0	<0.2	1.73	4	30	<0.5	2	1.96	<0.5	9	82	122	2.13	<10	<1	0.23	10	0.97	330	<1	0.08	11	500	4	<2	4	51	0.04	<10	<10	62	38
627648	206.0	209.0	0.2	2.25	24	60	<0.5	8	2.10	<0.5	13	89	424	2.61	10	1	0.37	30	1.14	415	<1	0.14	11	580	2	6	7	66	0.19	<10	<10	87	42
627649	209.0	212.0	0.2	2.19	12	30	<0.5	4	2.69	<0.5	12	88	48	2.45	10	1	0.31	40	1.11	415	<1	0.10	8	550	<2	<2	6	90	0.17	<10	<10	80	38
627650	212.0	215.0	0.2	2.30	8	50	<0.5	2	2.71	<0.5	13	85	60	2.78	10	<1	0.26	30	1.11	435	1	0.14	11	680	8	4	7	65	0.26	<10	<10	98	38
627651	220.0	223.0	0.4	1.59	20	90	<0.5	8	1.39	<0.5	12	107	174	2.80	10	<1	0.38	30	0.98	375	1	0.17	8	690	<2	<2	5	71	0.28	<10	<10	105	32
627652	253.0	256.0	0.4	2.26	22	90	<0.5	8	2.36	<0.5	13	80	200	3.09	10	<1	0.25	30	1.08	435	<1	0.17	9	830	<2	2	7	94	0.23	<10	<10	111	42
627653	261.5	264.5	0.2	1.42	28	50	<0.5	4	2.64	<0.5	11	117	90	2.37	10	1	0.40	40	0.77	365	<1	0.08	6	630	4	6	4	50	0.04	<10	<10	65	34
627794	280.5	283.5	<0.2	1.36	<2	50	<0.5	<2	0.99	<0.5	7	96	150	2.17	<10	<1	0.26	10	0.57	260	1	0.14	7	480	<2	2	2	72	0.15	<10	<10	83	28
627795	283.5	285.5	<0.2	1.40	<2	50	<0.5	4	1.09	<0.5	7	101	215	2.14	<10	<1	0.24	10	0.60	265	<1	0.14	7	500	<2	<2	2	91	0.14	<10	<10	78	28
627654	285.5	287.5	0.8	1.94	4	40	0.5	4	2.10	<0.5	10	80	1139	2.33	10	<1	0.31	30	0.74	330	1	0.13	5	560	<2	2	4	78	0.19	<10	<10	79	26
627655	287.5	289.5	0.2	1.94	14	40	<0.5	2	1.96	<0.5	9	121	227	2.33	10	3	0.42	30	0.76	305	<1	0.11	8	570	2	4	6	57	0.18	<10	<10	74	26
627656	339.5	342.5	0.4	1.78	8	30	0.5	6	1.86	<0.5	10	89	146	2.33	10	<1	0.24	30	0.79	375	1	0.12	3	580	<2	4	6	84	0.24	<10	<10	86	30
627657	342.5	345.5	0.2	1.87	18	30	0.5	6	2.04	<0.5	11	160	123	2.43	10	<1	0.23	40	0.83	390	1	0.11	7	570	<2	2	6	88	0.23	<10	<10	84	30

HOLCV506.XLS

SAMPLE	FRO	TO	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga		K	La	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	T	U	V	Zn
	m	m	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	m	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
627658	30.0	33.0	<0.2	2.76	2	60	<0.5	<2	2.69	<0.5	10	93	150	2.49	10	1	0.31	40	0.87	475	1	0.10	10	580	6	6	6	97	0.11	<10	<10	76	56
627659	33.0	36.0	<0.2	2.27	<2	70	<0.5	<2	2.21	<0.5	10	89	183	2.35	10	<1	0.27	30	0.77	375	<1	0.09	7	570	8	2	5	77	0.20	<10	<10	80	36
627660	60.0	63.0	<0.2	3.52	14	60	<0.5	<2	3.46	<0.5	11	83	235	2.51	10	<1	0.41	40	0.90	480	<1	0.07	8	570	4	<2	7	108	0.13	<10	<10	77	36
627661	63.0	66.0	1.2	2.37	16	140	<0.5	2	1.88	<0.5	13	96	1981	2.53	10	<1	0.61	30	0.79	420	5	0.09	8	570	<2	<2	5	100	0.15	<10	<10	74	30
627662	66.0	68.0	6.4	2.37	6	80	<0.5	<2	2.04	<0.5	12	79	9262	2.64	10	<1	0.40	30	0.76	375	1	0.08	9	610	2	2	5	125	0.21	<10	<10	82	38
627769	68.0	71.0	0.2	1.49	<2	80	<0.5	<2	1.35	<0.5	6	101	96	1.98	10	<1	0.16	<10	0.57	255	<1	0.09	7	500	4	2	2	140	0.12	<10	<10	71	28
627770	71.0	74.0	<0.2	1.61	<2	70	<0.5	<2	1.62	<0.5	7	97	88	1.99	10	<1	0.16	<10	0.63	275	<1	0.08	5	520	2	<2	2	128	0.12	<10	<10	70	32
627771	74.0	77.0	<0.2	1.29	<2	110	<0.5	<2	1.15	<0.5	7	110	79	2.10	10	<1	0.20	<10	0.59	270	1	0.10	4	460	4	<2	2	151	0.13	<10	<10	75	28
627663	106.0	109.0	<0.2	2.78	18	50	<0.5	<2	2.83	<0.5	11	64	109	2.49	10	<1	0.33	40	0.84	420	<1	0.07	7	610	4	2	7	95	0.21	<10	<10	81	42
627772	130.6	133.6	<0.2	1.41	<2	80	<0.5	<2	1.27	<0.5	7	121	81	2.17	10	<1	0.19	<10	0.64	290	<1	0.11	6	540	6	<2	2	75	0.14	<10	<10	76	30
627773	133.6	136.6	<0.2	1.82	<2	80	<0.5	<2	1.90	<0.5	6	87	142	2.15	10	<1	0.16	<10	0.72	350	1	0.08	6	550	8	<2	3	74	0.12	<10	<10	70	34
627664	136.6	137.6	1.2	1.98	<2	80	<0.5	10	2.23	<0.5	14	68	3110	2.80	10	<1	0.56	30	0.91	520	1	0.05	10	670	2	<2	5	53	0.07	<10	<10	69	40
627774	137.6	140.6	0.4	1.56	4	40	<0.5	<2	1.91	<0.5	8	90	978	2.23	10	<1	0.20	<10	0.80	370	1	0.07	7	550	<2	<2	3	45	0.09	<10	<10	67	34
627775	140.6	143.6	<0.2	1.29	<2	60	<0.5	<2	1.35	<0.5	7	76	94	2.14	<10	<1	0.15	<10	0.66	290	<1	0.08	6	560	8	<2	2	53	0.13	<10	<10	74	32
627665	150.9	153.9	<0.2	1.95	<2	60	<0.5	4	3.17	<0.5	12	64	93	2.49	10	<1	0.37	40	0.90	430	<1	0.09	7	600	6	4	6	73	0.15	<10	<10	80	36
627666	153.9	156.9	<0.2	2.11	<2	70	<0.5	<2	2.40	<0.5	11	90	169	2.50	10	<1	0.40	30	0.86	405	<1	0.10	9	640	4	<2	6	90	0.18	<10	<10	83	34
627667	156.9	159.9	0.4	1.81	<2	90	<0.5	<2	1.82	<0.5	11	93	911	2.59	10	<1	0.35	30	0.85	390	<1	0.14	9	610	8	6	5	71	0.20	<10	<10	85	30
627776	159.9	160.9	0.4	1.13	4	30	<0.5	<2	1.47	<0.5	7	50	1033	2.18	<10	<1	0.12	<10	0.70	330	1	0.05	10	570	2	<2	3	43	0.10	<10	<10	71	30
627668	160.9	163.9	<0.2	1.96	<2	130	<0.5	2	2.02	<0.5	11	85	347	2.52	10	<1	0.38	30	0.80	385	<1	0.12	9	620	8	2	5	129	0.21	<10	<10	84	28
627669	179.0	181.0	<0.2	1.89	<2	70	<0.5	2	1.97	<0.5	10	87	123	2.39	10	<1	0.26	30	0.77	375	<1	0.14	8	630	4	<2	5	125	0.22	<10	<10	82	28
627670	183.0	186.0	0.2	2.49	4	110	0.5	4	2.38	<0.5	11	93	63	2.65	10	<1	0.36	30	0.89	435	1	0.13	10	670	4	2	6	173	0.24	<10	<10	91	36
627671	186.0	189.0	<0.2	1.98	10	90	<0.5	<2	2.08	<0.5	11	79	143	2.55	10	<1	0.29	30	0.80	385	1	0.12	9	640	12	2	5	120	0.23	<10	<10	87	32
627672	189.0	192.0	<0.2	2.00	2	70	<0.5	<2	2.20	<0.5	11	75	196	2.50	10	<1	0.40	30	0.80	405	1	0.11	10	630	18	4	5	142	0.21	<10	<10	83	34
627673	192.0	195.0	<0.2	2.37	12	60	<0.5	<2	2.38	<0.5	12	73	276	2.62	10	<1	0.39	30	0.89	420	<1	0.11	10	620	10	6	6	78	0.21	<10	<10	88	34
627674	195.0	198.0	<0.2	1.64	<2	70	<0.5	2	1.62	<0.5	10	90	69	2.47	10	<1	0.32	30	0.77	380	<1	0.12	7	620	6	4	4	51	0.21	<10	<10	84	30
627675	198.0	201.0	0.4	2.29	16	110	<0.5	<2	2.17	<0.5	10	93	1230	2.25	10	<1	0.68	30	0.71	330	4	0.10	6	580	16	2	4	51	0.12	<10	<10	73	28
627676	201.0	204.0	0.2	2.55	14	120	<0.5	2	2.57	<0.5	11	89	1007	2.41	10	<1	0.77	30	0.77	355	5	0.09	9	580	12	2	4	60	0.12	<10	<10	78	32
627677	204.0	207.0	<0.2	2.41	<2	90	<0.5	<2	2.61	<0.5	12	75	146	2.50	10	<1	0.53	30	0.89	395	<1	0.09	8	620	14	2	6	103	0.15	<10	<10	77	32
627678	207.0	210.0	<0.2	2.07	<2	110	<0.5	<2	1.86	<0.5	10	90	147	2.37	10	<1	0.29	30	0.73	355	<1	0.16	8	620	<2	4	4	155	0.24	<10	<10	84	26
627679	210.0	213.0	<0.2	2.73	<2	100	0.5	2	2.70	<0.5	11	94	168	2.56	20	<1	0.62	30	0.90	410	1	0.13	11	640	<2	8	6	131	0.19	<10	<10	85	32
627680	213.0	216.0	<0.2	2.45	<2	120	<0.5	<2	2.19	<0.5	10	108	100	2.46	10	<1	0.42	30	0.76	355	1	0.17	5	610	4	8	4	129	0.22	<10	<10	83	26
627681	216.0	219.0	<0.2	2.24	<2	150	<0.5	<2	2.01	<0.5	10	86	76	2.41	10	<1	0.45	30	0.80	375	2	0.14	7	590	6	4	4	194	0.19	<10	<10	78	30
627777	224.3	227.3	<0.2	1.66	<2	70	<0.5	<2	1.71	<0.5	9	58	68	2.17	<10	<1	0.15	<10	0.75	310	<1	0.07	8	590	8	4	2	81	0.14	<10	<10	74	34
627682	227.3	230.8	0.2	2.08	<2	90	<0.5	10	1.90	<0.5	11	94	602	2.45	10	<1	0.35	30	0.81	375	<1	0.14	9	630	<2	2	5	111	0.23	<10	<10	84	28
627778	230.8	233.8	0.2	1.65	<2	60	<0.5	<2	1.60	0.5	9	41	700	2.14	<10	<1	0.16	<10	0.71	300	99	0.07	7	610	4	<2	2	57	0.10	<10	<10	70	32
627683	235.0	238.0	<0.2	2.36	4	100	<0.5	4	2.25	<0.5	11	92	116	2.68	10	<1	0.34	30	0.91	430	<1	0.14	9	650	2	6	7	180	0.26	<10	<10	93	32
627684	248.0	251.0	<0.2	2.50	4	60	<0.5	<2	2.26	<0.5	8	70	28	2.09	10	<1	0.13	<10	0.79	305	<1	0.11	7	540	2	2	3	105	0.09	<10	<10	61	30
627685	251.0	254.0	<0.2	2.37	<2	40	<0.5	<2	2.17	<0.5	8	75	31	2.02	10	<1	0.14	<10	0.87	340	2	0.09	6	510	2	<2	3	80	0.11	<10	<10	58	32
627686	254.0	257.0	<0.2	2.51	<2	20	<0.5	<2	2.18	<0.5	8	77	484	2.09	10	<1	0.13	<10	0.89	335	<1	0.08	7	530	4	<2	3	73	0.09	<10	<10	58	32
627687	257.0	260.0	<0.2	1.85	<2	30	<0.5	<2	1.87	<0.5	8	87	78	2.01	10	<1	0.14	<10	0.80	295	2	0.07	7	520	<2	<2	3	69	0.10	<10	<10	56	32
627688	260.0	263.0	<0.2	1.96	<2	40	<0.5	<2	1.98	<0.5	8	76	178	2.08	10	<1	0.11	<10	0.84	320	2	0.08	7	510	<2	<2	3	77	0.10	<10	<10	58	30
627689	263.0	266.0	<0.2	2.40	6	30	<0.5	<2	2.44	<0.5	8	87	160	2.12	10	<1	0.13	<10	0.86	325	<1	0.10	7	510	2	2	3	117	0.10	<10	<10	62	30
627690	266.0	269.0	<0.2	1.64	2	80	<0.5	<2	1.36	<0.5	7	102	214	2.29	10	<1	0.19	<10	0.66	260	<1	0.15	7	580	<2	<2	2	66	0.14	<10	<10	75	32

HOLCV[illegible]a.XLS

SAMPLE	FRO[illegible]	TO	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	[illegible]g	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	Zn
	m	m	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
627691	269.0	272.0	<0.2	1.17	<2	100	<0.5	<2	0.94	<0.5	7	118	42	2.16	10	<1	0.19	<10	0.51	235	<1	0.12	6	560	2	<2	1	72	0.13	<10	<10	72	26
627692	278.0	281.0	<0.2	1.47	2	110	<0.5	<2	1.13	<0.5	7	85	164	2.15	10	<1	0.17	<10	0.59	235	<1	0.10	6	570	2	<2	2	115	0.13	<10	<10	72	26
627693	281.0	284.0	<0.2	1.64	<2	90	<0.5	<2	1.49	<0.5	7	102	228	2.09	10	<1	0.13	<10	0.69	270	<1	0.11	6	510	2	<2	3	131	0.12	<10	<10	66	28
627694	284.0	287.0	<0.2	1.77	<2	90	<0.5	<2	1.99	<0.5	7	101	55	2.04	10	<1	0.15	<10	0.72	280	<1	0.11	7	500	<2	<2	3	133	0.12	<10	<10	63	30
627695	290.0	293.0	<0.2	1.48	<2	70	<0.5	<2	1.29	<0.5	7	112	254	2.15	10	<1	0.16	<10	0.65	270	1	0.12	7	540	<2	<2	2	60	0.13	<10	<10	69	30
627696	302.0	305.0	<0.2	1.27	<2	60	<0.5	<2	1.19	<0.5	7	94	98	1.94	10	<1	0.16	<10	0.61	260	8	0.12	5	480	2	<2	2	66	0.11	<10	<10	61	30
627697	305.0	308.0	<0.2	1.56	<2	50	<0.5	<2	1.50	<0.5	8	123	1918	2.29	10	<1	0.15	<10	0.70	285	141	0.11	7	550	<2	<2	3	62	0.13	<10	<10	66	30
627698	308.0	311.0	<0.2	1.56	<2	70	<0.5	<2	1.51	<0.5	7	95	276	2.12	10	<1	0.15	<10	0.68	260	6	0.11	6	540	2	<2	3	65	0.13	<10	<10	65	28
627699	312.3	315.3	<0.2	1.90	<2	140	<0.5	<2	1.62	<0.5	8	118	265	2.35	10	<1	0.14	<10	0.74	285	1	0.16	6	550	<2	<2	3	158	0.12	<10	<10	70	30
627700	315.3	318.3	<0.2	1.85	<2	90	<0.5	<2	1.52	<0.5	8	86	392	2.29	10	<1	0.13	<10	0.71	280	1	0.16	6	570	<2	<2	3	154	0.13	<10	<10	68	30
627701	326.0	329.0	<0.2	1.35	2	80	<0.5	<2	1.38	<0.5	7	106	62	2.24	10	<1	0.15	<10	0.67	265	1	0.11	6	560	<2	<2	3	74	0.13	<10	<10	70	30
627702	329.0	332.0	<0.2	1.27	<2	70	<0.5	<2	1.15	<0.5	7	81	374	2.09	10	<1	0.15	<10	0.62	235	<1	0.10	6	500	<2	<2	2	68	0.12	<10	<10	66	28
627703	332.0	335.0	<0.2	1.48	<2	110	<0.5	<2	1.52	<0.5	8	102	160	2.04	10	<1	0.13	<10	0.69	290	<1	0.10	6	500	<2	<2	2	82	0.11	<10	<10	61	32
627704	338.0	341.0	<0.2	3.28	<2	80	0.5	<2	3.00	<0.5	13	83	175	2.86	20	<1	0.40	40	1.08	450	<1	0.13	11	700	<2	8	8	299	0.24	<10	<10	96	32
627705	341.0	344.0	<0.2	3.04	<2	80	0.5	6	2.91	<0.5	13	72	276	2.84	20	<1	0.33	40	1.05	455	6	0.13	8	700	4	8	7	199	0.25	<10	<10	98	32
627706	344.0	348.0	<0.2	3.53	<2	100	0.5	<2	3.32	<0.5	12	69	49	3.00	20	<1	0.41	40	1.14	500	1	0.13	13	730	14	2	8	313	0.25	<10	<10	102	42
627707	348.0	351.0	<0.2	2.33	<2	140	<0.5	2	2.11	<0.5	11	73	35	2.65	20	<1	0.32	30	0.89	400	<1	0.13	8	710	4	8	6	197	0.24	<10	<10	94	30
627708	356.0	359.0	<0.2	2.04	14	90	<0.5	2	1.94	<0.5	12	85	280	2.81	10	<1	0.25	30	0.89	395	8	0.17	8	670	<2	<2	6	146	0.25	<10	<10	98	22
627709	359.0	361.0	0.2	2.13	8	80	<0.5	2	2.04	<0.5	13	73	322	2.77	20	<1	0.33	30	0.98	400	1	0.13	11	680	<2	8	6	134	0.25	<10	<10	94	26
627710	366.0	369.0	<0.2	2.76	2	90	<0.5	2	2.81	<0.5	12	80	156	2.91	20	<1	0.45	30	1.01	420	1	0.14	11	700	<2	4	7	209	0.22	<10	<10	97	26
627711	369.0	371.0	<0.2	2.56	<2	70	<0.5	4	2.67	<0.5	12	80	2	2.79	20	<1	0.36	30	1.00	430	<1	0.12	13	710	6	8	7	242	0.24	<10	<10	100	28
627779	371.0	374.0	<0.2	1.60	<2	30	<0.5	<2	1.80	<0.5	8	51	36	1.98	<10	<1	0.12	<10	0.82	310	<1	0.06	8	590	6	2	2	81	0.09	<10	<10	59	34
627780	374.0	376.7	<0.2	1.51	<2	40	<0.5	<2	2.11	<0.5	9	34	69	1.96	<10	<1	0.11	<10	0.77	295	<1	0.06	6	570	6	4	2	97	0.09	<10	<10	58	32
627712	376.7	378.7	0.6	2.86	<2	60	<0.5	2	3.05	0.5	15	72	1277	3.05	20	<1	0.43	40	1.28	520	19	0.11	10	720	<2	6	7	187	0.22	<10	<10	101	36
627781	378.7	381.7	<0.2	1.12	<2	80	<0.5	<2	1.27	<0.5	7	42	23	2.06	<10	<1	0.13	<10	0.59	250	<1	0.07	6	580	4	<2	2	94	0.11	<10	<10	72	28
627782	381.7	384.7	<0.2	1.90	<2	80	<0.5	<2	2.45	<0.5	8	35	22	2.01	<10	<1	0.14	<10	0.82	330	<1	0.08	7	600	2	<2	2	149	0.08	<10	<10	60	34
627713	395.8	397.8	<0.2	2.93	2	70	<0.5	2	2.78	<0.5	13	73	138	3.24	20	<1	0.36	40	1.18	570	11	0.12	12	750	<2	6	8	150	0.19	<10	<10	99	30

HOI ~ 'S07.XLS

Sample	FROM	TO	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	Zn
	m	m	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
627733	198.5	201.5	<0.2	1.74	<2	40	<0.5	<2	1.64	<0.5	9	126	198	2.09	10	<1	0.18	<10	0.83	320	5	0.12	10	520	<2	<2	3	50	0.13	<10	<10	72	30
627734	201.5	204.5	<0.2	1.73	<2	40	<0.5	<2	2.03	<0.5	8	142	98	2.19	<10	<1	0.20	10	0.90	360	<1	0.12	10	530	<2	<2	4	63	0.13	<10	<10	71	34

Sample		TO	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe		Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl		V	Zn
		m	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
627735	76.7	79.7	<0.2	1.25	<2	120	<0.5	<2	1.01	<0.5	8	154	101	2.20	<10	<1	0.32	<10	0.66	255	1	0.13	11	470	2	4	2	77	0.17	<10	<10	82	30
627736	79.7	82.7	<0.2	1.15	<2	100	<0.5	2	1.01	<0.5	9	106	109	2.16	<10	<1	0.28	<10	0.62	240	1	0.10	11	510	<2	2	2	41	0.17	<10	<10	81	30
627737	82.7	85.7	<0.2	1.25	<2	110	<0.5	<2	1.09	<0.5	7	122	79	2.28	<10	<1	0.29	<10	0.66	265	1	0.12	9	520	<2	<2	2	65	0.18	<10	<10	87	32
627738	113.5	116.5	<0.2	1.31	2	100	<0.5	4	1.09	<0.5	8	116	109	2.29	<10	<1	0.27	<10	0.71	265	1	0.13	10	570	<2	<2	3	71	0.15	<10	<10	83	32
627739	116.5	119.5	<0.2	1.59	<2	110	<0.5	6	1.35	<0.5	8	124	58	2.21	<10	<1	0.27	<10	0.71	265	2	0.13	11	510	<2	<2	2	74	0.16	<10	<10	84	28
627740	117.5	122.5	<0.2	1.61	<2	80	<0.5	<2	1.41	<0.5	8	99	299	2.07	<10	<1	0.19	<10	0.74	265	1	0.11	10	480	<2	<2	2	96	0.15	<10	<10	74	28
627741	122.5	125.6	<0.2	2.26	<2	100	<0.5	<2	1.79	<0.5	9	94	150	2.07	<10	<1	0.20	<10	0.72	260	<1	0.16	10	510	4	<2	2	166	0.15	<10	<10	77	28
627742	125.6	128.5	<0.2	2.78	<2	90	<0.5	<2	3.42	<0.5	8	84	350	1.95	<10	<1	0.17	<10	0.77	305	1	0.14	10	500	2	2	2	124	0.12	<10	<10	69	30
627743	128.5	130.5	<0.2	2.02	<2	120	<0.5	<2	1.34	<0.5	7	82	206	2.10	<10	<1	0.22	<10	0.53	210	1	0.23	7	600	2	<2	2	247	0.10	<10	<10	77	24
627744	130.5	133.5	<0.2	1.80	<2	80	<0.5	<2	1.49	<0.5	9	93	238	2.35	<10	<1	0.24	<10	0.75	275	1	0.12	10	580	2	2	2	79	0.14	<10	<10	85	30
627745	142.0	145.0	<0.2	1.09	<2	160	<0.5	<2	0.78	<0.5	7	129	74	2.26	<10	<1	0.37	<10	0.61	260	1	0.16	11	500	<2	4	2	79	0.15	<10	<10	86	30

HOLCVS09.XLS

Sample	FROM	TO	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	Zn
	m	m	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
627746	134.5	137.5	<0.2	1.01	<2	120	<0.5	<2	0.80	<0.5	6	96	334	2.03	<10	<1	0.27	<10	0.56	230	2	0.08	6	470	4	<2	1	62	0.13	<10	<10	71	26
627747	137.5	140.5	<0.2	1.32	<2	90	<0.5	4	1.45	<0.5	8	166	305	2.13	<10	<1	0.23	<10	0.62	270	4	0.11	9	490	<2	<2	2	97	0.12	<10	<10	66	26
627748	140.5	143.5	<0.2	1.39	<2	100	<0.5	<2	1.12	<0.5	8	101	268	2.18	<10	<1	0.20	<10	0.59	250	1	0.11	8	510	<2	<2	2	115	0.12	<10	<10	74	28
627749	143.5	146.5	<0.2	1.39	<2	70	<0.5	<2	1.29	<0.5	9	126	283	2.27	<10	<1	0.18	<10	0.68	300	2	0.11	7	530	<2	2	3	87	0.14	<10	<10	75	32

HOLCVS10.XLS

Sample	FROM	TO	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	Zn
	m	m	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
627750	144.0	147.0	<0.2	1.42	<2	90	<0.5	<2	1.22	<0.5	9	66	92	2.31	<10	<1	0.20	<10	0.70	255	<1	0.09	10	680	<2	<2	1	88	0.13	<10	<10	86	32
627751	168.0	171.0	<0.2	1.76	<2	100	<0.5	4	1.40	<0.5	8	97	127	2.41	<10	<1	0.20	<10	0.71	265	1	0.13	6	660	<2	2	2	137	0.13	<10	<10	86	28
627752	177.0	180.0	<0.2	2.03	2	20	<0.5	<2	2.07	<0.5	10	62	130	2.46	<10	<1	0.09	<10	1.04	365	1	0.08	12	680	<2	<2	4	71	0.17	<10	<10	88	36
627753	180.0	183.0	<0.2	3.34	<2	30	<0.5	<2	3.01	<0.5	10	46	70	2.40	10	<1	0.11	<10	1.02	385	1	0.12	10	710	<2	<2	5	89	0.13	<10	<10	87	36
627754	200.0	203.0	<0.2	1.00	4	30	<0.5	2	0.84	<0.5	6	73	229	2.06	<10	<1	0.17	<10	0.57	245	1	0.07	7	540	<2	<2	1	41	0.14	<10	<10	74	28
627755	203.0	206.0	<0.2	1.63	<2	60	<0.5	2	1.28	<0.5	8	98	168	2.10	<10	<1	0.19	<10	0.70	295	<1	0.13	7	500	<2	<2	3	81	0.12	<10	<10	68	32
627756	206.0	209.0	<0.2	1.87	<2	80	<0.5	<2	1.61	<0.5	6	65	367	2.96	<10	<1	0.16	<10	0.67	275	1	0.10	7	520	<2	2	2	164	0.09	<10	<10	63	32
627757	209.0	212.0	<0.2	1.56	<2	70	<0.5	2	1.29	<0.5	8	91	395	2.35	<10	<1	0.18	<10	0.71	290	<1	0.14	6	580	<2	<2	3	90	0.12	<10	<10	76	34
627758	218.0	221.0	<0.2	0.95	<2	40	<0.5	2	0.69	<0.5	6	72	119	1.93	<10	<1	0.26	<10	0.50	210	1	0.08	7	500	<2	<2	1	43	0.11	<10	<10	69	26
627759	221.0	224.0	<0.2	1.04	<2	60	<0.5	2	0.81	<0.5	7	105	185	2.04	<10	<1	0.29	<10	0.55	240	1	0.12	7	460	<2	2	2	59	0.12	<10	<10	73	26
627760	224.0	227.0	<0.2	1.23	<2	50	<0.5	<2	0.96	<0.5	7	79	131	1.98	<10	<1	0.23	<10	0.54	225	1	0.10	7	500	2	<2	1	95	0.12	<10	<10	70	26

Sample	[illegible]	TO	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	[illegible]	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	[illegible]	V	Zn
	m	m	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
627806	23.0	26.0	<0.2	0.57	<2	310	<0.5	<2	1.58	<0.5	3	120	4	0.96	<10	<1	0.19	10	0.23	255	<1	0.07	3	350	<2	<2	1	65	<0.01	10	<10	18	20
627844	77.0	80.0	<0.2	0.26	<2	220	<0.5	2	2.08	<0.5	1	62	28	0.71	<10	<1	0.18	<10	0.14	380	6	0.02	2	300	<2	<2	1	80	<0.01	<10	<10	14	14
627845	80.0	83.0	<0.2	0.51	6	340	<0.5	<2	1.36	<0.5	2	97	11	0.89	<10	<1	0.18	<10	0.16	255	1	0.06	3	290	2	<2	1	70	<0.01	<10	<10	18	14
627846	83.0	86.0	0.2	0.28	2	230	<0.5	<2	2.19	<0.5	2	58	25	0.81	<10	<1	0.16	<10	0.22	430	2	0.02	2	370	2	2	1	71	<0.01	<10	<10	16	14
627847	86.0	89.0	<0.2	0.53	4	200	<0.5	4	1.89	<0.5	1	104	8	0.80	<10	<1	0.27	<10	0.13	285	10	0.04	2	320	<2	2	1	69	<0.01	<10	<10	14	12
627807	112.0	115.0	0.2	0.31	<2	70	<0.5	<2	2.97	<0.5	2	106	341	0.51	<10	<1	0.23	<10	0.10	690	66	0.01	1	340	2	<2	<2	83	<0.01	<10	<10	6	18
627808	115.0	118.0	<0.2	0.49	2	200	<0.5	<2	2.71	<0.5	2	122	36	0.93	<10	<1	0.26	10	0.19	575	4	0.03	3	390	<2	<2	1	103	<0.01	<10	<10	15	22
627809	118.0	121.0	0.2	0.49	<2	240	<0.5	<2	2.17	<0.5	3	126	315	0.93	<10	<1	0.26	10	0.18	460	33	0.03	2	370	2	<2	1	94	<0.01	<10	<10	15	24
627810	121.0	124.0	<0.2	0.49	<2	170	<0.5	<2	2.41	<0.5	2	132	73	0.84	<10	<1	0.27	10	0.19	480	2	0.04	2	350	2	<2	1	98	<0.01	10	<10	13	28
627796	124.0	127.0	0.2	0.56	<2	240	<0.5	<2	2.33	<0.5	2	116	155	0.88	<10	<1	0.30	<10	0.16	490	7	0.04	2	350	4	2	1	98	<0.01	10	<10	14	22
627797	127.0	130.0	<0.2	0.49	<2	180	<0.5	<2	2.29	<0.5	2	114	89	0.75	<10	<1	0.31	10	0.20	505	<1	0.03	2	340	<2	2	1	88	<0.01	10	<10	9	22
627798	130.0	133.0	0.8	0.48	6	1630	<0.5	<2	2.28	<0.5	3	142	920	0.35	<10	<1	0.36	<10	0.07	570	353	0.01	2	290	2	2	<2	85	<0.01	<10	<10	1	8
627799	133.0	136.0	0.4	0.58	4	550	<0.5	<2	3.01	<0.5	2	144	494	0.58	<10	<1	0.38	<10	0.14	645	30	0.02	2	300	<2	2	<2	93	<0.01	<10	<10	6	16
627800	136.0	139.0	0.2	0.49	<2	100	<0.5	<2	2.82	<0.5	1	165	385	0.55	<10	<1	0.33	<10	0.13	555	28	0.01	2	270	4	2	<2	96	<0.01	<10	<10	4	14
627801	139.0	142.0	11.8	0.54	22	80	<0.5	<2	2.18	<0.5	2	175	10000	0.60	<10	<1	0.34	<10	0.12	405	72	0.01	3	260	2	2	1	84	<0.01	<10	<10	4	16
627802	142.0	145.7	0.2	0.61	46	80	<0.5	<2	2.50	<0.5	2	183	624	0.76	<10	<1	0.33	<10	0.18	490	7	0.03	2	300	<2	<2	1	83	<0.01	<10	<10	9	30
627803	145.7	149.0	<0.2	0.59	2	90	<0.5	<2	2.39	<0.5	1	171	96	0.53	<10	<1	0.30	<10	0.10	415	30	0.05	2	160	2	2	<2	83	<0.01	<10	<10	6	20
627804	149.0	152.0	0.2	0.69	2	160	<0.5	<2	2.84	<0.5	2	154	389	0.62	<10	<1	0.38	<10	0.15	625	10	0.02	2	300	2	<2	<2	103	<0.01	<10	<10	7	20
627805	152.0	155.0	0.8	0.73	<2	110	<0.5	<2	2.84	<0.5	3	160	1307	0.80	<10	<1	0.38	<10	0.18	525	31	0.04	3	330	4	2	1	100	<0.01	<10	<10	11	34
627811	155.0	158.0	0.2	0.43	<2	60	<0.5	<2	2.51	<0.5	2	166	205	0.81	<10	<1	0.26	10	0.16	545	1	0.02	2	380	<2	2	<2	83	<0.01	<10	<10	11	26
627812	158.0	161.0	<0.2	0.49	2	70	<0.5	<2	2.35	<0.5	2	195	129	0.77	<10	<1	0.29	10	0.15	475	1	0.02	3	360	<2	<2	<2	77	<0.01	<10	<10	10	26
627813	161.0	164.0	0.2	0.43	<2	180	<0.5	<2	2.41	<0.5	2	155	276	0.81	<10	<1	0.27	10	0.17	495	2	0.02	3	380	<2	<2	1	82	<0.01	10	<10	12	32
627814	164.0	167.0	<0.2	0.44	2	90	<0.5	<2	2.52	<0.5	2	152	79	0.92	<10	<1	0.26	10	0.15	475	<1	0.02	3	390	2	<2	1	89	<0.01	<10	<10	15	34
627815	167.0	170.0	0.4	0.41	4	690	<0.5	<2	2.46	<0.5	3	145	540	0.95	<10	<1	0.25	10	0.19	460	<1	0.02	3	400	<2	<2	1	98	<0.01	<10	<10	13	40
627825	170.0	171.0	<0.2	0.47	2	220	<0.5	<2	2.30	<0.5	5	135	24	1.05	<10	<1	0.24	10	0.42	425	<1	0.04	19	340	<2	<2	1	82	<0.01	<10	<10	14	36
627816	171.0	173.0	0.4	0.40	2	60	<0.5	<2	1.87	<0.5	3	143	762	0.83	<10	<1	0.21	10	0.18	445	<1	0.04	3	350	<2	<2	1	66	<0.01	<10	<10	11	44
627817	173.0	176.0	<0.2	0.51	<2	70	<0.5	<2	2.31	<0.5	3	142	56	1.08	<10	<1	0.23	10	0.15	435	1	0.05	2	420	<2	<2	1	88	<0.01	<10	<10	19	38
627818	176.0	179.0	0.2	0.55	<2	100	<0.5	<2	2.49	<0.5	3	146	151	1.11	<10	<1	0.26	10	0.20	520	1	0.04	2	420	2	<2	1	89	<0.01	<10	<10	21	34
627819	179.0	182.0	<0.2	0.46	<2	80	<0.5	<2	2.63	<0.5	2	146	161	0.87	<10	<1	0.31	10	0.14	690	1	0.02	2	420	<2	<2	1	83	<0.01	<10	<10	14	26
627820	182.0	185.0	0.2	0.47	<2	2060	<0.5	<2	2.69	<0.5	3	165	287	0.77	<10	<1	0.32	10	0.17	830	29	0.02	2	390	2	<2	1	141	<0.01	<10	<10	11	26
627821	185.0	188.0	<0.2	0.48	<2	230	<0.5	<2	2.50	<0.5	2	157	182	0.89	<10	<1	0.29	10	0.19	710	3	0.03	3	400	2	<2	1	81	<0.01	<10	<10	15	24
627822	188.0	191.0	0.4	0.52	<2	180	<0.5	<2	2.79	<0.5	3	130	456	1.11	<10	<1	0.30	10	0.24	660	9	0.03	2	420	2	<2	1	97	<0.01	<10	<10	19	38
627823	191.0	194.0	0.2	0.43	<2	140	<0.5	<2	2.73	<0.5	3	115	221	0.84	<10	<1	0.30	10	0.18	780	87	0.02	3	410	2	<2	1	83	<0.01	<10	<10	13	30
627824	194.0	197.0	0.2	0.50	<2	170	<0.5	<2	2.65	<0.5	2	136	289	0.96	<10	<1	0.33	10	0.20	760	7	0.02	2	410	<2	<2	1	80	<0.01	<10	<10	17	34
627826	197.0	200.0	1.2	0.28	2	160	<0.5	<2	2.21	<0.5	3	105	1618	0.84	<10	<1	0.20	10	0.15	675	189	0.02	3	410	<2	<2	1	68	<0.01	<10	<10	13	24
627827	200.0	203.0	0.8	0.43	<2	100	<0.5	<2	2.33	<0.5	3	136	1129	0.84	<10	<1	0.31	10	0.18	910	191	0.02	3	370	<2	<2	1	69	<0.01	<10	<10	12	20
627828	203.0	206.0	1.6	0.32	16	110	<0.5	<2	2.39	<0.5	2	92	1987	0.72	<10	<1	0.23	10	0.11	790	30	0.01	2	410	2	<2	1	75	<0.01	<10	<10	11	20
627829	206.0	209.0	3.2	0.49	16	170	<0.5	2	2.45	<0.5	2	153	5122	0.86	<10	<1	0.33	10	0.12	810	62	0.02	2	410	4	<2	1	81	<0.01	<10	<10	11	22
627830	209.0	212.0	0.2	0.49	<2	60	<0.5	<2	2.84	<0.5	3	152	77	1.20	<10	<1	0.21	10	0.27	490	1	0.04	2	450	2	<2	1	92	<0.01	<10	<10	21	34
627831	212.0	215.0	<0.2	0.74	<2	80	<0.5	<2	2.53	<0.5	3	197	83	1.03	<10	<1	0.39	10	0.26	510	2	0.06	3	410	2	2	1	85	<0.01	<10	<10	13	32

Sample	[illegible]	TO	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	[illegible]a	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	Zn
	m	m	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
627834	221.0	224.0	0.2	0.66	<2	120	<0.5	<2	2.14	<0.5	3	174	165	1.00	<10	<1	0.36	10	0.21	525	1	0.07	3	370	2	<2	1	73	<0.01	<10	<10	16	42
627835	272.0	275.0	0.2	0.63	2	80	<0.5	<2	2.30	<0.5	3	92	43	1.04	<10	<1	0.37	10	0.20	540	1	0.04	3	440	2	<2	1	79	<0.01	<10	<10	18	38
627836	275.0	278.0	<0.2	0.70	<2	80	<0.5	<2	2.32	<0.5	4	82	37	1.21	<10	<1	0.39	10	0.38	650	1	0.06	2	480	2	<2	1	82	<0.01	<10	<10	22	38
627837	278.0	281.0	0.4	0.61	<2	100	<0.5	<2	2.52	<0.5	3	76	413	0.99	<10	<1	0.39	10	0.21	875	2	0.04	1	450	2	<2	1	80	<0.01	<10	<10	19	30
627840	281.0	284.0	2.0	0.76	4	430	<0.5	<2	2.59	<0.5	3	78	2331	0.87	<10	<1	0.55	10	0.19	1115	7	0.03	2	480	<2	2	1	83	<0.01	<10	<10	15	32
627841	284.0	287.0	0.2	0.60	<2	90	<0.5	<2	1.96	<0.5	2	87	160	0.78	<10	<1	0.39	10	0.21	755	10	0.03	2	450	<2	<2	1	68	<0.01	<10	<10	12	32
627838	287.0	290.0	0.2	0.70	<2	150	<0.5	<2	2.02	<0.5	3	77	308	1.11	<10	<1	0.34	10	0.31	645	1	0.07	2	440	2	<2	1	82	<0.01	<10	<10	23	28
627839	290.0	293.0	0.2	0.62	<2	180	<0.5	<2	2.33	<0.5	3	69	310	1.07	<10	<1	0.36	10	0.26	665	1	0.05	2	440	2	2	1	88	<0.01	<10	<10	21	32
627842	293.0	296.0	0.4	0.78	<2	350	<0.5	<2	2.20	<0.5	3	75	433	1.12	<10	<1	0.41	10	0.26	695	3	0.06	2	430	<2	<2	1	90	<0.01	<10	<10	24	28
627843	296.0	299.0	0.6	0.53	2	110	<0.5	<2	2.55	<0.5	2	77	750	0.84	<10	<1	0.38	10	0.18	865	25	0.03	2	410	<2	<2	1	85	<0.01	<10	<10	15	28

Sample	Al	TiO	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe		Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl		V	Zn
	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
627848	74.1	77.7	0.4	0.23	<2	160	<0.5	<2	1.71	<0.5	<1	70	495	0.16	<10	<1	0.18	<10	0.03	135	16	0.02	1	60	4	<2	<2	69	<0.01	<10	<10	1	<2
627849	77.7	81.1	0.6	0.37	<2	210	<0.5	<2	1.41	<0.5	<1	123	846	0.23	<10	<1	0.21	<10	0.02	115	4	0.05	1	80	2	2	<2	64	<0.01	<10	<10	2	<2
627850	117.0	118.0	2.6	0.43	<2	90	<0.5	<2	2.48	<0.5	1	103	1279	0.41	<10	<1	0.31	<10	0.17	385	30	0.01	2	130	<2	<2	<2	106	<0.01	<10	<10	4	8

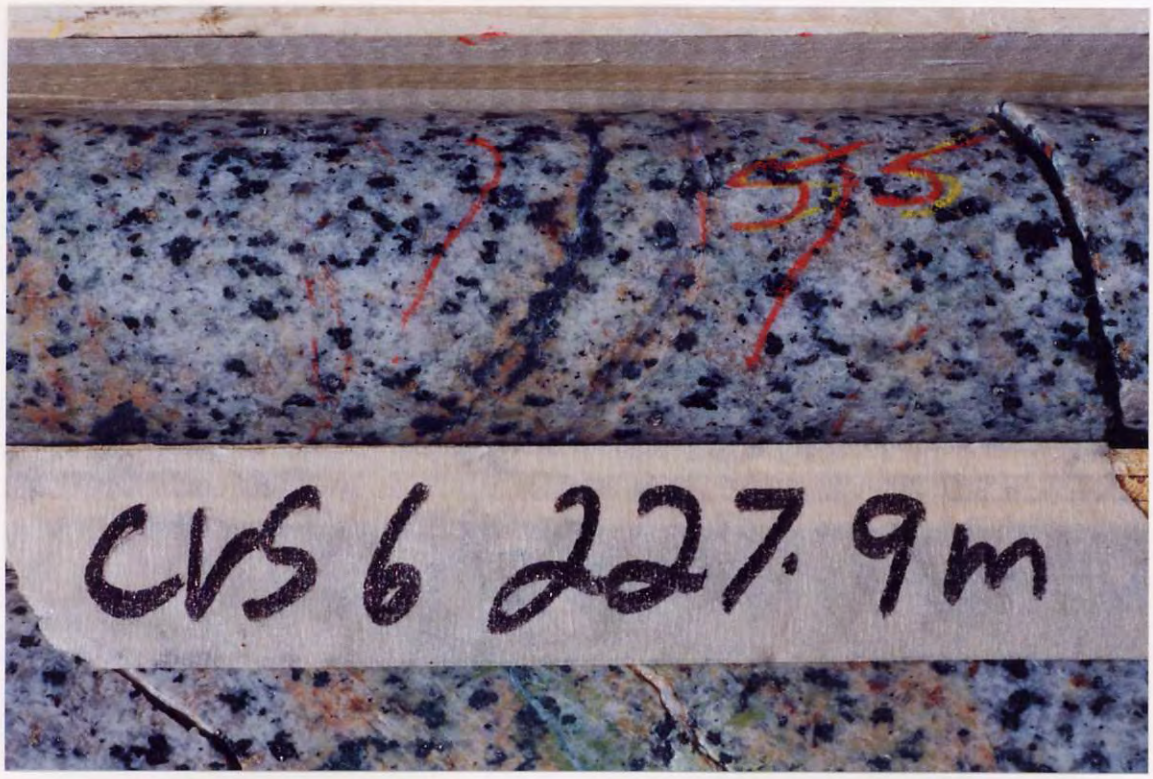
Sample	FROM	TO	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	Zn
	m	m	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
627851	160.0	163.0	<0.2	0.67	<2	520	<0.5	<2	2.65	<0.5	1	116	69	0.82	<10	<1	0.32	<10	0.18	500	<1	0.03	1	350	2	<2	1	144	<0.01	<10	<10	15	16
627852	163.0	166.0	<0.2	0.37	4	240	<0.5	<2	3.90	<0.5	1	57	30	0.61	<10	<1	0.23	<10	0.11	605	<1	0.01	1	360	6	2	1	172	<0.01	<10	<10	7	18
627853	166.0	169.0	<0.2	0.61	<2	480	<0.5	<2	3.20	<0.5	1	112	181	0.67	<10	<1	0.37	<10	0.10	590	<1	0.03	1	360	10	2	1	160	<0.01	<10	<10	8	16
627854	169.0	172.0	<0.2	0.64	2	440	<0.5	2	2.84	<0.5	2	101	14	0.96	<10	<1	0.32	<10	0.21	630	<1	0.02	1	380	<2	2	1	152	<0.01	<10	<10	14	26
627855	172.0	175.0	<0.2	0.64	<2	440	<0.5	<2	2.46	<0.5	1	100	11	0.77	<10	<1	0.33	<10	0.14	440	<1	0.02	2	310	4	<2	1	155	<0.01	<10	<10	11	16
627856	175.0	178.0	<0.2	0.42	<2	2000	<0.5	<2	2.85	<0.5	1	108	11	0.35	<10	<1	0.32	<10	0.08	520	<1	0.01	1	120	4	<2	<2	155	<0.01	<10	<10	2	6
627857	178.0	181.2	<0.2	0.59	2	2110	<0.5	<2	3.34	<0.5	2	120	90	0.69	<10	<1	0.39	<10	0.13	685	<1	0.03	1	380	10	3	1	194	<0.01	<10	<10	7	20
627858	184.0	187.0	0.2	0.55	<2	950	<0.5	<2	2.77	<0.5	2	95	41	0.93	<10	<1	0.29	<10	0.21	665	<1	0.02	2	360	4	2	1	159	<0.01	<10	<10	15	28
627859	189.0	192.0	0.2	0.59	<2	1360	<0.5	<2	3.97	<0.5	2	102	155	0.79	<10	<1	0.38	<10	0.17	839	4	0.01	2	370	4	2	1	200	<0.01	<10	<10	8	28
627860	192.0	195.0	0.2	0.55	4	640	<0.5	2	2.76	<0.5	3	74	107	0.76	<10	<1	0.34	<10	0.17	540	<1	0.02	<1	430	4	2	1	168	<0.01	<10	<10	11	22
627861	195.0	197.2	0.6	0.63	<2	640	<0.5	<2	2.34	<0.5	2	84	398	0.92	<10	<1	0.31	<10	0.23	455	<1	0.03	2	400	<2	4	1	158	<0.01	<10	<10	16	22
627862	201.0	204.0	0.2	0.50	12	390	<0.5	<2	3.62	<0.5	2	78	4	0.64	<10	<1	0.30	<10	0.14	590	<1	0.01	1	390	<2	8	1	175	<0.01	<10	<10	6	22
627863	205.0	208.0	<0.2	0.71	24	830	<0.5	<2	2.68	<0.5	3	97	3	0.84	<10	<1	0.31	<10	0.26	345	<1	0.04	2	400	6	26	1	185	<0.01	<10	<10	12	20
627864	208.0	211.0	<0.2	0.68	18	360	<0.5	<2	2.25	<0.5	3	08	3	0.99	<10	<1	0.23	<10	0.31	400	1	0.03	2	360	2	8	1	153	<0.01	<10	<10	16	18
627865	211.0	214.0	<0.2	0.71	100	920	<0.5	<2	2.47	<0.5	2	115	2	0.87	<10	<1	0.30	<10	0.24	355	<1	0.03	2	370	6	4	1	151	<0.01	<10	<10	12	20
627866	214.0	217.0	<0.2	0.53	8	540	<0.5	2	2.55	<0.5	1	56	3	0.83	<10	<1	0.21	<10	0.26	395	<1	0.02	1	360	<2	<2	1	158	<0.01	<10	<10	11	18
627867	217.0	220.0	<0.2	0.75	18	430	<0.5	<2	2.00	<0.5	2	110	2	0.94	<10	<1	0.30	<10	0.26	315	<1	0.04	1	370	4	<2	1	143	<0.01	<10	<10	15	20
627868	220.0	223.0	<0.2	0 53	<2	850	<0.5	<2	3.00	<0.5	2	106	2	0.82	<10	<1	0.27	<10	0.21	525	<1	0.02	2	350	8	0	1	164	<0.01	<10	<10	11	22
627869	223.0	226.0	<0.2	0.65	<2	590	<0.5	2	1.88	<0.5	2	119	4	0.95	<10	<1	0.26	<10	0.27	345	<1	0.05	2	360	4	8	1	127	<0.01	<10	<10	16	20
627870	226.0	228.0	<0.2	0.53	4	530	<0.5	<2	2.32	<0.5	2	132	4	0.77	<10	<1	0.29	<10	0.22	555	<1	0.03	2	330	4	2	1	138	<0.01	<10	<10	9	24
627871	246.0	249.0	<0.2	0.69	<2	210	<0.5	4	1.97	<0.5	2	136	6	0.84	<10	<1	0.32	<10	0.20	385	<1	0.04	1	380	4	2	1	152	<0.01	<10	<10	13	22
627872	249.0	252.0	<0.2	0 54	0	190	<0.5	<2	2.69	<0.5	2	112	12	0.67	<10	<1	0.31	<10	0.17	525	<1	0.03	1	340	<2	4	1	166	<0.01	<10	<10	7	22
627873	252.0	255.0	<0.2	0.79	8	490	<0.5	<2	2.13	<0.5	2	159	71	0.90	<10	<1	0.34	<10	0.21	445	<1	0.06	3	370	6	<2	1	165	<0.01	<10	<10	14	22
627874	255.0	256.0	<0.2	0.52	2	1840	<0.5	<2	3.08	<0.5	2	165	50	0.79	<10	<1	0.35	<10	0.27	915	<1	0.02	1	330	<2	2	<2	208	<0.01	<10	<10	4	36

APPENDIX C

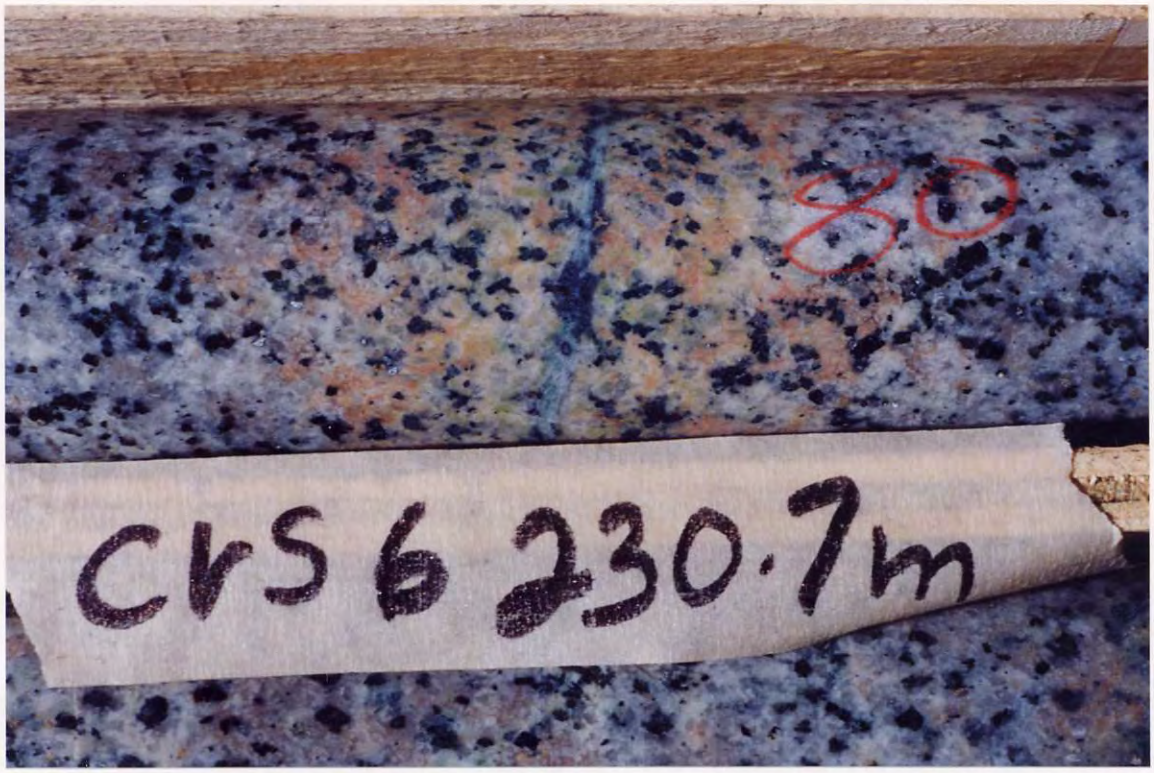
CORE PHOTOS

AND

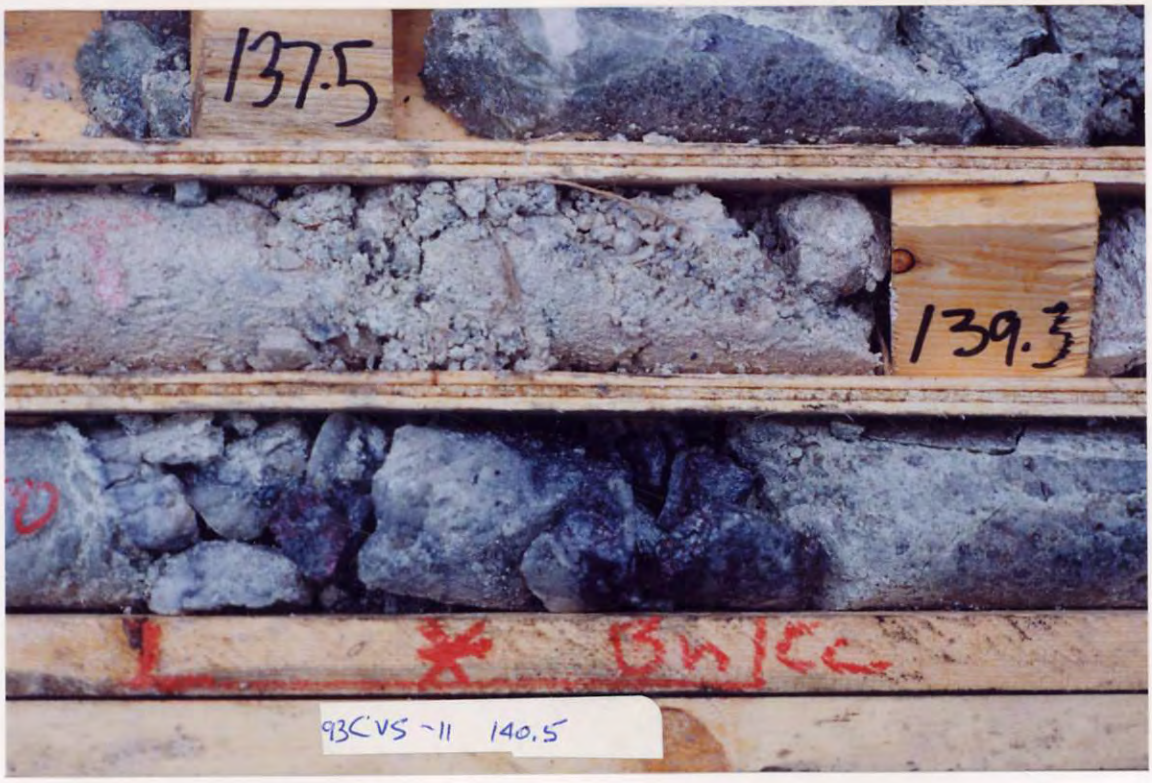
THIN SECTION EXAMINATIONS



Chalcocite-bornite-quartz vein without signficant wallrock alteration envelope in fresh Chataway granodiorite.



Chalcocite-bornite quartz vein with pink wallrock alteration envelope in fresh Chataway granodiorite.



High grade bornite-chalcocite-quartz vein. Note intense, pervasive sericite II alteration in adjacent core rows.

High grade bornite-chalcocite-quartz vein in pervasive sericite II altered quartz diorite.

Quartz stockwork zone with bornite-chalcocite-quartz veins. Note sericite II overprint on pink K-spar alteration, which displays specks of martitized magnetite altered to hematite.

Intense pervasive sericite II alteration with quartz-calcite-specularite vein.

THIN SECTION EXAMINATIONS

THIN SECTION: CVS1-60 (93358X)

PROBLEM: Examine K-spar alteration and identify pink zeoloite.

Vein has two minerals: (1) pink calcite as core mineral enveloped by (2) zeolite - sub-fibrous in habit with characteristics including: colourless in transmitted light; birefringence grey to straw yellow, length slow and inclined extinction = laumontite.

Away from the vein, feldspars show variable weak to moderate core alteration to sericite. Abundant dusting of extremely fine hematite is present in feldspars and along quartz fractures. This could account for the pink envelope noted in core.

THIN SECTION: CVS5-360 (93359X)

PROBLEM: Examine wallrock alteration and identify pink zeolite.

Narrow vein occurs at edge of section.

Vein contains laumontite (similar optical characteristics as CVS1-60) and subordinate amounts of calcite and quartz.

Alteration of wallrock near the vein is intense and is characterized by core-preferential feldspar replacement by fine grained sericite and extremely fine hematite dusting. Farther from the vein this type of combined alteration is still present, but declines rapidly in intensity.

THIN SECTION: CVS5-398.4 (93360X)

PROBLEM: Examine pink alteration and green sericite-quartz vein mineralogy.

Sample has 12 to 13 mm pink wallrock envelope on either side of greenish 1 mm vein.

Contents of vein are:

abundant fibrous laumontite crystals - 10 micron;
sparse 8 to 40 micron flourite cyrstals;
pale green muscovite (up to second order yellow to red);
moderate amount of slightly strained quartz.

Wallrock alteration consists of:

100 percent intense brown (transmitted light) hematite dusting within pink envelope;
slight feldspar core alteration to sericite;
strong amphibole alteration to pale green chlorite and magnetite.

Outside the pink halo minor hematite dusting of feldspar is still present. Hornblendes are fresh. Noted large 1 to 2 mm fresh sphene crystals on edge of section.

THIN SECTION: CVS5-399 (93361X)

PROBLEM: Examine chalcocite-bornite vein wallrock alteration.

Vein is inconspicuous in sample.

Adjacent quartz crystals show strained extinction as does quartz within the vein itself.

Wallrock alteration of vein includes:

strong feldspar clouding by fine hematite dusting;
in places substantial feldspar cores are altered to fine sericite;
primary biotite altered to chlorite.

THIN SECTION: CVS9-240.2 (93377X)

PROBLEM: Examine mineralogy of alteration halos.

Sample is a chalcocite-bornite vein with orange 2cm alteration halo.

The vein contains laumontite, quartz and minor amphibole (second order yellow-orange) crystals.

Feldspars in alteration halo are weakly sericite altered, but display a heavy fine grained hematite dusting to explain the orange-pink halo colour. Biotite adjacent to the vein is chloritized.

THIN SECTION: CVS11-9 (93362X)

PROBLEM: Examine alteration, if any of plagioclase and biotite in the wallrock.

Pervasive alteration is extensive and quite intense.

Most feldspars were affected although some still exhibit primary albite and oscillatory twinning.

All feldspar cores were replaced to varying degree by fine sericite and hematite dusting. Quite a number of feldspars show excellent examples of K-spar overgrowth as feldspar rims.

Rare biotite is present with ragged crystal edges that display extensive muscovite alteration.

THIN SECTION: CVS11-10.5 (93363X)

PROBLEM: Examine extent and intensity of hydrothermal alteration.

Alteration is more intense than CVS11-9.

All feldspars have been affected to a high degree of sericite replacement +/- calcite and fine grained hematite dusting. A few display relict primary albite twinning. Hematite dusting is not as intense in this section as CVS11-9. No mafic minerals are left. Most of the quartz displays strained extinction.

THIN SECTION: CVS11-141.3 (93364X)

PROBLEM: Examine alteration sequence of altered quartz monzonite overprinted by quartz sericite.

This is an intensely pervasive altered rock.

All feldspars show moderate to intense sericite alteration but primary albite twinning is still recognizable on some feldspars. K-spar overgrowth is evident on most feldspars and appears to replace the sericite alteration as an overprinting alteration. Hematite dusting is minor. No mafic minerals survived. One biotite site was altered to muscovite, sericite and hematite. Even sphene crystals display partial alteration to calcite plus Ti - hematite? Quartz shows weak strained extinction and displays very irregular crystal boundaries suggesting recrystalization. The alteration sequence is sericite followed by K-spar.

THIN SECTION: CVS11-282.6 (93365X)

PROBLEM: Examine pervasive second generation (ser II) sericite alteration.

This is an extremely altered rock. The only remaining products are quartz and sericite pseudomorphs after feldspar. No trace of primary feldspar twinning or mineralogy survived the alteration.

THIN SECTION: CVS13-35 (93378X)

PROBLEM: Examine general extent and degree of alteration.

Extensive moderately intense pervasive alteration is present. Most feldspars here suffered core alteration to sericite, but to a weaker degree than CVS11-9 (93362X). Some weak K-spar overgrowth is present. The sericite alteration is accompanied by hematite dusting to produce the pink overall rock colour with sericite patches causing the mottled pale greenish pattern. Biotite is altered mostly to chlorite.

THIN SECTION: CVS13-251.5 (93379X)

PROBLEM: Examine alteration halos on vein.

No alteration halo visible on section. It appears to be uniformly altered.

Vein mineralogy is calcite, quartz, and specularite.

Wallrock is sericite altered feldspar with K-spar overgrowth overprinting sericite.

Mafics (biotite sites) are muscovite altered.

Quartz displays strained extinction and very irregular grain boundaries.

THIN SECTION: CVS13-255.7 (93380X)

PROBLEM: Examine and identify pale brownish alteration mineralogy of feldspars in intense sericite altered feldspars.

An extremely altered rock cut by calcite-specularite vein. The only remaining minerals are quartz and felted sericite pseudomorphic after feldspars. Brown colouration of sericite may be due to abundant hematite dusting. Mafic sites (biotite) are replaced with muscovite. Similar to sericite II altered sample CVS11-228.6.

Unknown mineral with high relief, and high birefringence appears to have grown as product of alteration. Equant grains 30 to 100 microns at one end of thin section.

THIN SECTION: CVS13-260 (93381X)

PROBLEM: Examine fresh Skeena quartz monzonite.

More that 50% of feldspars display 20 to 60% core alteration to sericite and fine hematite dusting.

Twinning in feldspars is crisp. Biotite and amphibole display little if any alteration.

This rock still exhibits weak alteration that is likely distal to the hydrothermal alteration higher up the drillhole i.e., this is not a pristine plutonic rock.

only submitted 1 - 6 holes

DRILLING ASSESSMENT REPORT

ON THE

CVS COPPER PROSPECT

KAMLOOPS MINING DIVISION, B.C.

N.T.S. 92 I/7W

ddh #1 to #6
submitted for
Ass. Rept on
CVS Copper Prosp.
Dec 1993

BY

S. G. Enns, P.Geo.

December, 1993

CLAIM WORKED:	CVS 5, 6, 7 and 8
LOCATION:	50° 22' North Latitude 120° 52' West Longitude
OWNER/OPERATOR:	Hudson Bay Exploration and Development Co. Limited
CONTRACTOR:	Aucumo Resources Ltd.

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1.0 SUMMARY

The CVS property is located in south central British Columbia, on the southeast side of the Guichon Creek batholith near the well known Highland Valley mining camp. Twenty two claims (282 units) cover an area of favourable geology.

Past exploration was fragmented and indicated widely scattered copper mineralization as well as weak chargeability anomalies on the property. Results from work by the Copper Valley Syndicate demonstrated a strong regional copper anomaly within streams and lakes in the area covered by the claims. In 1993, a new IP/resistivity survey, conducted by Walcott and Associates, identified four large, chargeability anomalies (Roscoe, Billy Lake, Superior North and Superior South) within Chataway granodiorite in the eastern part of the property.

This report presents the drilling results from a total of 2,069.1 metres of NQ (47.6mm) core in 6 holes. Aucumo Resources operated the programme on behalf of Hudson Bay Exploration and Development between September 8 and November 5, 1993. The drilling tested the significance of the large chargeability anomalies.

The Roscoe anomaly is the best mineralized, but it contains weak levels of copper. Isolated and sporadic chalcocite-bornite veins and widely distributed, weak, hypogene and supergene native copper characterize the mineralization. Hydrothermal alteration is localized and displays a weak relationship with copper. Isolated 4 to 6 metre intervals contain 1100 to 1500 ppm copper, with one, the best mineralized zone, of 4890 ppm copper over 5 metres at a depth of 66 metres from hole 93CVS-6.

On the Billy Lake anomaly, similar, but weaker mineralization again with minor sporadic chalcocite-bornite-quartz veins and minor, widely distributed native copper was intersected. Significant hydrothermal alteration is absent. Two samples each with isolated high grade veins are 0.39 percent over 2.4 metres and 0.33 percent copper over one metre.

Respectfully submitted.

December 31, 1993
Vancouver, B.C.

S.G.Enns P.Geo.

PROFESSIONAL
PROVINCE OF
S. G. ENNS
BRITISH COLUMBIA
GEOSCIENTIST

2.0 INTRODUCTION

During the fall of 1993, Aucumo Resources conducted a diamond drilling programme on the CVS property in the Highland Valley region. The exploration target was a porphyry copper deposit, similar to the deposits of the nearby Highland Valley Camp. Claims on the CVS property cover a less explored region, that lies east of the south projection of the Lornex fault.

The objective of the 1993 drilling programme was to test a number of IP/resistivity anomalies for mineralization. These anomalies were outlined in the an earlier survey described by Walcott (1993). The anomalies selected for drilling include the large chargeability anomalies surrounding Chataway Lake.

3.0 LOCATION, ACCESS AND PREVIOUS WORK

The CVS copper prospect is located in south central British Columbia (Figure 1), within the southeast portion of the Guichon Creek batholith. It lies on the south margin of the Highland Valley camp, about seven kilometres south of the Highmont Copper Mine. A point at the centre of the property is defined by latitude 50°21'N and longitude 120°55'W.

The claims are located 25 kilometres north of Merritt, the nearest service and supplies centre. Access to the centre of the property is provided by the Pimanus-Tyner fire access road which intersects the Merritt-Ashcroft highway approximately nine kilometres west of Merritt. A network of old exploration and active logging roads provides additional access to most parts of the property. The Chataway Lake Lodge was used a base of operation for the drilling project.

Previous work was conducted on the claims and surrounding area since 1887. Known, nearby deposits are the Aberdeen mine, the Vimy mine both of which are located to the southeast, and the Highland Valley deposits immediately north of the claims. Exploration in the area began in 1956 with the Chataway Mining Syndicate (Troup 1992). Their work continued until the late 1970's and resulted in locating at least five copper showings. Since about 1980, the area was staked intermittently by individuals, but exploration was hampered by the extensive glacial till cover. The present CVS and CS claims were staked by Copper Valley Syndicate beginning in 1991. In 1993, Aucumo Resources Ltd. conducted exploration on behalf of Hudson Bay Exploration and Development Co. Limited.

4.0 PHYSIOGRAPHY, VEGETATION AND CLIMATE

Topography of the claims is typical of the plateau-like terrain found in the Highland Valley region. The relief is between 100 and 220m with maximum elevations of 1550m at the north end of the claims. Local canyons from glacial outwash streams provide the most extreme relief in the southwest and southeast parts of the claim block. Chataway Creek is a broad, thick, overburden-covered valley with no exposures.

The forest generally consists of well-spaced lodgepole pine with intervals of dense, second-growth pine stands. Scattered patches of aspen and birch occur on south and west-facing slopes, and spruce, fir and mountain alder grow in damp areas along streams and swamps. Low lying areas are covered by swampy meadows in many areas, and frequently these reflect the southeast glacial direction.

The climate is typical of the southern interior, with warm, dry summers and moderately long, cold winters. Temperature extremes extend from more than +30°C in August to -30°C in January. Average annual precipitation is 31 cm, with most of this falling as snow in late fall, winter and early spring. The snow-free period lasts from late April to mid-November. Due to the light snowfall, geophysical surveys and diamond drilling activities can be conducted throughout the winter months.

5.0 PROPERTY INFORMATION

Most of the claims on the property are in the Kamloops Mining Division; some of the eastern claims are within the Nicola Mining Division. At present, the property contains 282 units in 22 claims as shown in Figure 2. The pertinent claims data are given in Table 1.

6.0 GEOLOGY

The CVS claim group covers the southeast portion of the Upper Triassic Guichon Creek batholith which intrudes sedimentary and volcanic rocks of the Permian Cache Creek Formation, and the overlying Upper Triassic Nicola Formation, a dominantly volcanic group. Sediments of the Jurassic Ashcroft Formation unconformably overlie the intrusive rocks at a number of locations.

CVSCLAIM.XLS

CLAIM	TENURE NUMBER	UNITS	ANNIV. DATE
CVS- 1	219885	20	May-10
CVS- 2	219886	20	May-11
CVS- 3	219887	20	May-10
CVS- 4	219888	20	May-11
CVS- 5	219889	20	May-12
CVS- 6	219890	20	May-12
CVS- 7	308682	20	Apr.-18
CVS- 8	308683	20	Apr.-19
CVS- 9	314627	18	Nov.-10
CVS-10	314628	15	Nov.-10
CVS-11	314629	10	Nov.-10
CVS-12	314630	8	Nov.-11
CVS-13	314631	20	Nov.-9
CVS-14	314632	20	Nov.-10
CVS-15	318562	20	Jun-21
CVS-16	322235	5	Nov.-03
CS- 9	314633	1	Nov.-07
CS-10	314634	1	Nov.-07
CS-11	314635	1	Nov.-07
CS-12	322236	1	Nov.-03
CS-13	322237	1	Nov.-03
CS-14	322238	1	Nov.-03
22		282	

The Guichon Creek batholith is a concentrically zoned plutonic complex with phases that generally show decreasing mineral grain size and increasing mafic content from a central core to the outer margin. McMillan (1978, 1985) subdivided the plutonic rocks into two broad categories. The outer, older phases include more mafic rocks of granodiorite to quartz diorite composition known as Border and Highland Valley phases. The Highland Valley phase was subdivided into Guichon and Chataway granodiorite varieties. Younger, inner phases, form the second broad category and include a transitional Bethlehem granodiorite phase, followed by Skeena granodiorite to quartz monzonite and Bethsaida quartz monzonite. Quartz aplite, granophyre and various quartz feldspar dykes are also included with the younger inner phases.

The younger magmas are more evolved and much less mafic. They are important because timing of the ore disposition in the Highland Valley mines is associated with their emplacement. Significant Cu-Mo mineralization is situated within, and along the margins of Bethsaida, Skeena or Bethlehem phase rocks.

The CVS claims lie in an area of sparse outcrop that received less attention by previous exploration activity and government mapping.

Mapping by Aucumo Resources Ltd. (Enns and Troup, 1993) showed that the eastern two-thirds of the CVS claims is underlain by Chataway granodiorite. The west third of the claims is broadly underlain by a northwest-trending plutonic succession. From east to west, this includes Roscoe granodiorite (200 to 1200m wide), Bethlehem granodiorite (500 to 800m wide), Skeena granodiorite to quartz monzonite (about 1000m wide) and Bethsaida quartz monzonite. Contacts between different phases are variable. They may be sharp, but often are gradational with definite observable changes in rock type up to hundreds of metres apart. This is particularly the case with Bethlehem, Skeena and Bethsaida phases.

The Roscoe granodiorite is an informally named mappable phase that occurs between the Bethlehem and Chataway granodiorite. Although displaying an average lower total mafic content than Chataway phase, it is probably a sub-phase of, and transitional to, Chataway granodiorite, because it shares some of the characteristic features of the Chataway phase, such as uniformly distributed, dominantly hornblende mafic content. In places, the distribution of Roscoe rocks suggests that it cuts the Chataway phase, elsewhere, it occurs as local magmatic segregation within Chataway.

Bethlehem granodiorite is transitional between Chataway and Bethsaida phases, and marks the first occurrence of the younger, more evolved magmas. Bethlehem granodiorite dykes cut Roscoe and Chataway granodiorite.

Skeena and Bethsaida quartz monzonite occur in the extreme west parts of the claims. These two phases are gradational and probably represent a magmatic continuum. Contacts between the two are ill-defined. Both have a low mafic mineral content with minor hornblende and large, conspicuous, anhedral quartz.

Quartz aplite as small bodies and dykes out all phases, but are more abundant in Skeena and Bethsaida rocks. Consequently, they tend to occur most frequently in the west parts of the claim block.

7.0 GEOPHYSICAL SURVEY RESULTS

Most of the claims were covered by a new pole-dipole IP/resistivity survey designed to relocate and better define weak IP anomalies identified by earlier work. A large dipole was employed to detect subtle, deep anomalies representing low-pyrite sulphide assemblage beneath the glacial cover and varying depths of oxidation.

Four large chargeability anomalies were clearly outlined by readings greater than 7.5 mv/v on the third separation (Walcott, 1993). These anomalies generally surround Chataway Lake (Figure 3) and are characterized by increasing sulphide content with depth. All four anomalies are underlain by Chataway granodiorite. The largest of these is the Roscoe anomaly which occurs near the Roscoe/Chataway granodiorite contact. A number of bornite-malachite veins are exposed within the outer limits of this anomaly. The Billy Lake anomaly, underlain by Chataway granodiorite, lies east of a trenched area where one old drill hole evidently tested a weak hydrothermally altered and mineralized exposure (Enns and Troup, 1993). The Superior North anomaly lies in a swampy area that is largely devoid of outcrop. Considerable Chataway granodiorite exposure underlies the Superior South anomaly. A few weak malachite occurrences were noted there during the recent mapping.

A weak changeability anomaly with readings up to 6.0 mv/v was identified at the west end of two widely spaced (400m) grid lines in the Mystery Lake area. Recent field mapping in this region outlined a weakly mineralized-hydrothermal alteration system which is open to the south, but closed off to the northwest. This region is underlain by prospective Bethlehem and Skeena plutonic phases.

8.0 DIAMOND DRILLING

The diamond drilling contract on the CVS property was awarded to Atlas Drilling Ltd. of Kamloops, B.C., and was completed between September 8 and November 2, 1993. About 2,000 metres of NQ (47.6mm) core was drilled in 6 holes. The equipment used was a standard, wireline, skid-mounted Longyear Super 38 drill powered by turbo-charged diesel. A D-5 Caterpillar was used for drill moves and for building "back spar" access trails and drill pads.

Recovery in drilling was between 92.4 and more than 99 percent. Depth of holes varied between 274.3 and 412.4 metres with drilled overburden 3.3 to 24.4 metres.

Length of water line was variable, up to 1000m, due to a general shortage of plentiful water supply in the region. Table II shows the materials left in the holes due to technical drilling problems. Hole CVS-3 required reaming the casing to greater depth because of poor ground conditions on the upper 50 metres. This was subsequently lost in the hole. In hole CVS-2 the casing broke and was lost down the hole. Bit life and mud consumption were normal.

All "back spar" trails and drill pads were back-bladed and water berms were constructed where appropriate to combat water erosion from spring run-off. The disturbed areas were seeded with high altitude exploration mix.

The core was logged in a standard manner and split samples were generally taken on three metre intervals. A set of skeletal core samples was collected from each hole with characteristic pieces selected at approximately 10 metre intervals. These examples were taken to Vancouver for permanent record and are stored at the warehouse of P. E. Walcott and Associates. The core for all holes is stored on the CVS-6 claim, immediately south of the Chataway Lake Lodge campsite.

Drill hole coordinates, elevations, dip and azimuth are listed for each hole (Appendix A). On average, two dip tests were taken per hole using a single-shot, Sperry-Sun camera. Deviation and hole flattening were minimal.

Chemex Lab Ltd. of North Vancouver, B.C. analyzed the split samples by ICP multi-element analysis. Assay re-analysis was reserved for those samples exceeding 3000 ppm copper, and are included in Appendix B.

TABLE II: 1993 CVS Project Drilling Summary

HOLE #	DIP	BEARING Az	RECOVERY %	DEPTH m	TOTAL m	CASING m	WATERLINE m	MATERIALS LEFT s=shoe, b=bit	PAC Vis L liquid	PAC Vis D powder
93CVS 1	60	270	99.0	288.3	288.3	24.4	300	1b	2	-
93CVS 2	60	090	99.0	274.3	562.6	9.2	1000	9.7mNW+s+1b	1	1
93CVS 3	60	270	92.4	279.8	842.4	17.1	1000	42.7mNW+s	2	-
93CVS 4	60	270	99.0	410.1	1252.5	3.3	500	-	3	-
93CVS 5	75	000	99.0	404.2	1656.7	3.3	900	3b	3	1
93CVS 6	55	045	99.0	412.4	2069.1	6.7	200	2b	2	-

8.1 DRILLING RESULTS

Highlights of the results of the drilling are described within the context of geophysical anomalies and include the Roscoe Anomaly - Drill Holes 93CVS-1 to 3 and 93CVS-6 (Figures 4 to 6), and the Billy Lake Anomaly - Drill Holes 93CVS-4 and 5 (Figures 7 and 8). Figure 3 shows the location and distribution of the geophysical anomalies and drill holes. Hand written, full descriptive drill logs are in Appendix A; each log is accompanied by a summary of geological and analytical results. Complete analytical results are listed by hole and by sampled interval in Appendix B.

8.1.1 Roscoe Anomaly

The Roscoe anomaly has a north orientation, that exceeds two kilometres in length and is two to nine hundred metres wide. The underlying geology was mapped as Chataway and Roscoe granodiorite phases cut by Bethlehem dykes (Enns and Troup, 1993). Several mineral showings within the anomaly include "Art's Showing" along a new logging road south of Roscoe Creek and numerous small malachite-bornite occurrences in the south part of the anomaly. Four holes were drilled to test about one kilometre of this anomaly.

Hole 93CVS-1 was drilled across the anomaly. It intersected several intervals of Bethlehem granodiorite dyke that cut predominant Roscoe granodiorite lithology and shows cross-cutting contacts in core. Hydrothermal alteration consists of weak, fracture-controlled and localized sericite accompanied by minor pink K-spar envelopes that are best developed near the bottom of the hole, in and near Bethlehem phase rocks. The mineralization is weak, occurring as fracture-controlled native copper, minor chalcocite and bornite veinlets 1 to 3 mm wide. Copper sulphide veins occur on low, core-axis angle veinlets (12 to 18 degrees). Copper levels are below 300 ppm.

Holes 93CVS-2 and 3 were drilled as a section across the south part of the anomaly. They intersected Chataway granodiorite cut by Bethlehem dykes. Hole 93CVS-3 intersected a wide interval of Bethlehem phase, possibly because this hole was travelling in a direction sub-parallel to the dyke. Generally weak, fracture-controlled, localized hydrothermal alteration was encountered. The top of hole 93CVS-3 started in a clay-altered, fault zone where much of the soft rock and overburden were washed out by the drill returns. Mineralization is generally weak in both holes, consisting of 1 to 2mm bornite-chalcocite veinlets with 15 to 35 degree core-axis angles. Hydrothermal alteration accompanying mineralization is often present as a weak, pink, bleached envelope, or it may be completely absent. The best

interval is at 254.0 to 260.0 metres in hole 93CVS-3 where specularite-chalcocite fractures occur with a frequency of 5 to 7 per metre in a short, pervasive, sericite-altered interval that contains 1171 to 1239 ppm copper.

Hole 93CVS-6 was drilled in a northeast direction to intersect mineralization veins at a better angle, and to drill under the extension of "Art's Showing" exposed along the logging road. This was the best mineralized hole in the Roscoe anomaly. It intersected mainly Chataway granodiorite in the upper portion, and mainly Roscoe granodiorite in the lower portion, but ended in Chataway phase. Hydrothermal alteration is generally localized and structurally controlled. In intervals of less than 15 metres, sericite occurs as narrow envelopes up to several centimetres wide. Short intervals of structurally controlled, moderate inteneity, K-spar envelopes up to 10 centimetres wide often are accompanied by orange-pink, zeolite-calcite veins up to 1 cm wide. In hole 93CVS-1 this was identified from thin section as Laumontite. Typical mineralization occurs as 1 to 2 mm veinlets either with weakly bleached alteration envelopes, or with no associated alteration. Core axis intersections are between 55 and 75 degrees. Native copper was not observed in this hole.

Several 4 to 6 metre intervals contain more than 1000 ppm copper, with the best interval of 5 metres from 63.0 to 68.0 metres averaging 4890 ppm copper and 3.28 ppm silver. Within this interval is a 2 metre assay of 0.93 percent copper. The interval 130 to 160 metres tested the down dip extension of "Art's Showing" and intersected only two short intervals of high copper. One of these intervals is 0.33 percent copper across one metre from intense quartz-sericite-altered rock adjacent to a fault, the adjacent sample of fault zone material contains 978 ppm. Yet no mineralization was visible in either of these two split intervals. Standard three metre samples contain 350 to 978 ppm copper. Deeper in the hole (266.0 and 280.0 metree), two intervals with a higher than average density of mineralized veinlets contain relatively low copper. The highest molybdenum sample, at 305.0 metres is associated with a 1.5 cm quartz-epidote-chalcopyrite vein containing disseminated bornite and some molybdenite slips. Elsewhere the molybdenum contents is low.

Drilling results indicate that the Roscoe anomaly contains weak copper mineralization. Where levels of copper are high, they occur over narrow widths. Hydrothermal alteration although present is sporadic as a localized, structurally-controlled feature. Its association with copper mineralization is not strong. The copper mineralization contains a sulphur-and iron-

poor mineralogy. Much (although not all) of the native copper in the first hole appears to be of hypogene origin as is evident from its occurrence with hornblende and with magnetite, and at a depth of more than 200 metres.

At present, the only explanation of the chargeability anomaly is the combined presence of scattered chalcocite-bornite veinlets, fine grained native copper and estimated 1 to 3 visual percent of magnetite.

8.1.3 Billy Lake Anomaly

The Billy Lake anomaly is located south of Billy Lake. It displays a north orientation, is about one kilometre long and is 250 to 450 metres wide. Bedrock mapped in the area consists of Chataway granodiorite cut by a possible Bethlehem granodiorite dyke near the Billy Lake Road. An area of extensive trenching lies immediately west of the anomaly and evidently tested the extent of several scattered, weakly mineralized copper occurrences that comprise a northwest-trending zone of weak alteration and mineralization recognized by recent mapping (Enns and Troup, 1993). Two holes were drilled to test the Billy Lake anomaly.

Hole 93CVS-4 was drilled across the north part of the anomaly and intersected Chataway granodiorite in the upper 167 metres of the hole, followed by Bethlehem granodiorite below 167 metres. It ended in Chataway phase. Short sporadic intervals of weak to moderate intensity K-spar alteration and fracture-controlled sericite alteration are scattered throughout most of the hole. Overall, the copper mineralization is weak, and consists mainly of native copper with sparsely distributed chalcocite and bornite veinlets. In the upper 200 metres of the hole, native copper occurs as the dominant copper mineralization in fractures and as isolated disseminations, or as disseminations associated with mafic minerals or with magnetite. Above 60 metres, native copper occurs as copper wire along fractures and is supergene, but at greater depth its origin is most likely hypogene as indicated by its encapsulated mode of occurrence in the hornblende, magnetite, or with fine grained drusy quartz vein material. Typical grades for native copper mineralization are in the range 200 to 600 ppm. Visual estimates are difficult owing to the fine grained nature of the native copper, but they do not exceed one-half percent by volume. In the interval 172.0 to 199.0 higher copper is associated with elevated levels of silver (0.4 to 0.8 ppm). Two isolated high copper samples in the hole are caused by the presence of chalcocite or bornite veins. At 187.0 metres, a 2.4 metre sample contains minor chalcocite within

a fault; at 364.8 metres a short, quartz-sericite altered one-metre sample contains specularite accompanied by bornite near a small fault. Both samples were re-assayed and run 0.39 and 0.33 percent copper respectively. Adjacent samples are an order of magnitude lower in copper.

The possible source of the third separation chargeability anomaly on line 70+00N evidently is the chalcocite-bornite veining below 300 metres, with some possible contribution from the native copper dissemination between 150 and 200 metres.

Hole 93CVS-5 was drilled along the long axis of the Billy Lake anomaly to test mineralization and a possible source of an inversion modelling chargeability anomaly below 250 metres. The hole intersected several phases of Chataway granodiorite cut by intervals of Bethlehem dyke. A major fault was intersected from 142.1 to 147.0 metres. Throughout most of its length, the hole encountered short intervals of hydrothermal alteration as pink K-spar and quartz-sericite, that is fracture controlled, wallrock alteration. Much of the pink alteration was identified in thin section as extremely fine hematite dusting of the feldspars accompanying sericite replacement of the core regions of feldspar. Pink zeolite (identified as laumontite in thin section) and calcite veins are widespread and also contribute to pink alteration envelopes. They are locally abundant, possibly as part of a late, low temperature alteration event within the batholith.

Mineralization consists of discrete, sparsely distributed 1 to 2mm chalcocite and bornite veinlets at 30 to 45 degrees to the core axis, often with no associated wallrock alteration. Native copper disseminations as very fine grained particles were identified in intervals of 5 to 40 metres wide, below a depth of 200 metres. Much of the native copper is of hypogene origin, as was described in hole 93CVS-4 above. Copper levels for such mineralization are variable and typically 100 to 400 ppm, with local samples as high as 800 ppm, depending on degree of dilution and sample width.

The combination of weak, widespread native copper dissemination and scattered, discrete chalcocite and bornite veinlets between 50 and 280 metres are regarded as the most likely source for the Billy Lake IP anomaly. A likely source for a deep, inversion modelling chargeability anomaly below 200 metres is not apparent.

REFERENCES CITED

Enns, S.G. and Troup A.G. (1993) Geological Report on the CVS Copper Prospect. Kamloops Mineral Division B.C. NTS 92I/7 Private Company Report for Aucumo Resources Ltd.

McMillan, W. J. (1978) Geology of the Guichon Creek Batholith. B.C. Department of Mines and Petroleum Resources. Preliminary Map 30.

McMillan, W. J. (1985) Geology and Ore Deposits of the Highland Valley Camp. Geological Association of Canada and Mineral Deposits Division. Field Guide and Reference Manual No. 1.

Troup, A. G. (1992) Geological, Geochemical and Geophysical Report on the CVS Copper Prospect. Kamloops Mineral Division B.C. NTS 92I/7 Assessment Report.

Walcott, P. E. (1993) A Geophysical Report on the Induced Polarization Surveying CVS Property, Highland Valley Area, B.C. Kamloops Mineral Division B.C. NTS 92I/7 Assessment Report.

STATEMENT OF EXPENDITURES

1.	Diamond Drilling:	
	Atlas Drilling, Kamloops, B.C. 6789 feet @ approx. 14.06 per foot	$95,470.56
2.	Personnel:	
	S. Enns, Geologist Aucumo Resources, 605 Rutland Court, Coquitlam, B.C. August 24, 25, September 7 - November 5, 1993 61 days @ approx. $401.22	$24,474.38
	S. Lehman, Core-splitter Aucumo Resources, 605 Rutland Court, Coquitlam, B.C. September 13 - November 4, 1993 53 days @ approx. $253.13	$13,415.63
	A. Troup, Geologist Aucumo Resources, 605 Rutland Court, Coquitlam, B.C. August 24 and 25, 1993 2 days @ $506.25	$ 1,012.50
	P. Walcott, Geophysicist Aucumo Resources, 605 Rutland Court, Coquitlam, B.C. August 24 and 25, September 7 and 8, 1993 4 days @ $506.25	$ 2,025.00
3.	Redhawk Rental, Burnaby, B.C. 4X4 Truck	$ 3,482.28
4.	Room - 62 days	$ 2,316.61
5.	Sperry-Sun Rental (2 month min.)	$ 4,084.14
6.	Supplies	$ 3,730.52
7.	Chemex Labs, North Vancouver, B.C. Assay and analysis	$ 4,614.04
8.	Goods and Services Tax	$ 2,036.29
	TOTAL	$156,661.95

STATEMENT OF QUALIFICATION

I, STEVE G. ENNS of North Vancouver, British Columbia, hereby certify that:

1. I am a graduate of the University of Manitoba with an M.Sc. - Economic Geology.

2. I am a registered member of the Association of Professional Engineers and Geoscientists of British Columbia.

3. I have practiced my profession for more than 22 years.

4. I supervised the programme described in this report.

Vancouver, B.C.,

December 31, 1993

S. Enns.
S. G. Enns

PROFESSIONAL
PROVINCE OF
S. G. ENNS
BRITISH COLUMBIA
GEOSCIENTIST

APPENDIX A

DRILL LOGS

APPENDIX B

ANALYTICAL RESULTS

I'll call data Wed on this figure.

Make all figures bolder + as large as reasonably possible.

WEST

(LINE OF SECTION 5800 N - FACING NORTH)

EAST

3000 3300 E

3500 3400 E

3600 3500 E — will check scale

1500 m

93CVS-1

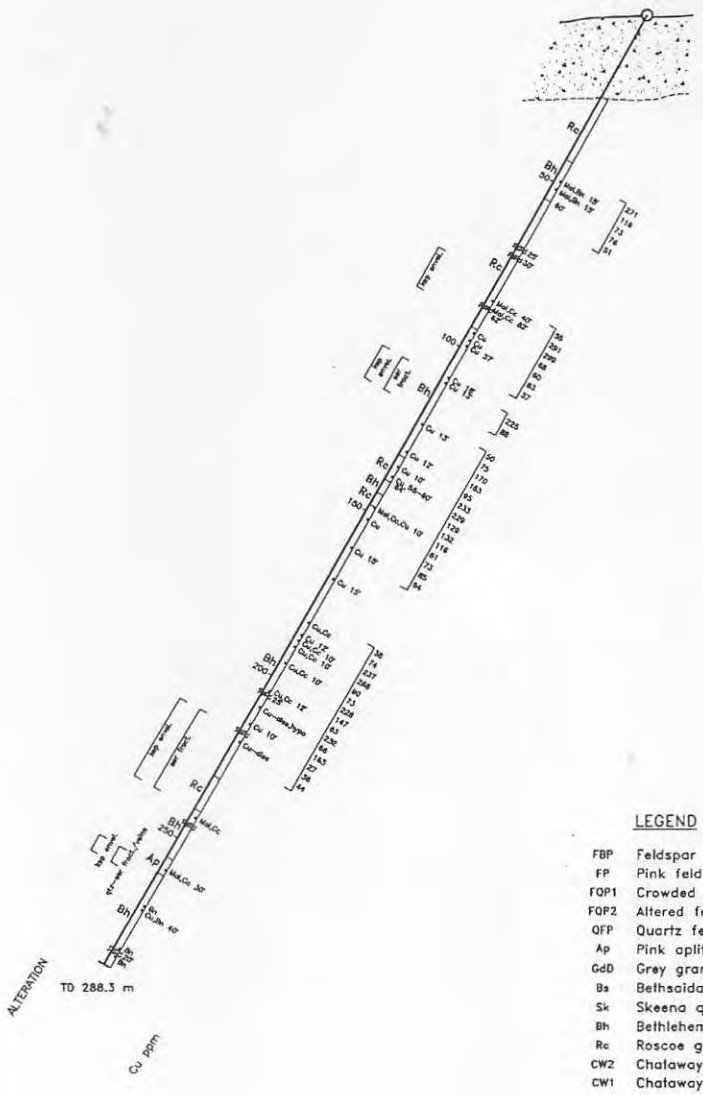
Collar Grid point 5800 N, 3550 E
Collar Elev. 1489.0 m

1400 m

1300 m

1200 m

1100 m



LEGEND

FBP	Feldspar biotite porphyry
FP	Pink feldspar porphyry
FQP1	Crowded feldspar quartz porphyry
FQP2	Altered feldspar quartz porphyry
QFP	Quartz feldspar porphyry
Ap	Pink aplite
GdD	Grey granodiorite dyke
Bs	Bethsaida quartz monzonite
Sk	Skeena quartz monzonite
Bh	Bethlehem granodiorite
Rc	Roscoe granodiorite
CW2	Chataway granodiorite - pink mottled phase
CW1	Chataway granodiorite - finer grained phase
CW	Chataway granodiorite
~~	Fault
Cu 15°	Mineralization with core-axis angle Cu=native copper; Cc=chalcocite; Bn=bornite; Cp=chalcopyrite; Hem=hematite; Spec=specularite; Mal=malachite
HG	High grade veins

0 20 40 60 80 100 m

SCALE 1:1,000

AUCUMO RESOURCES LTD.

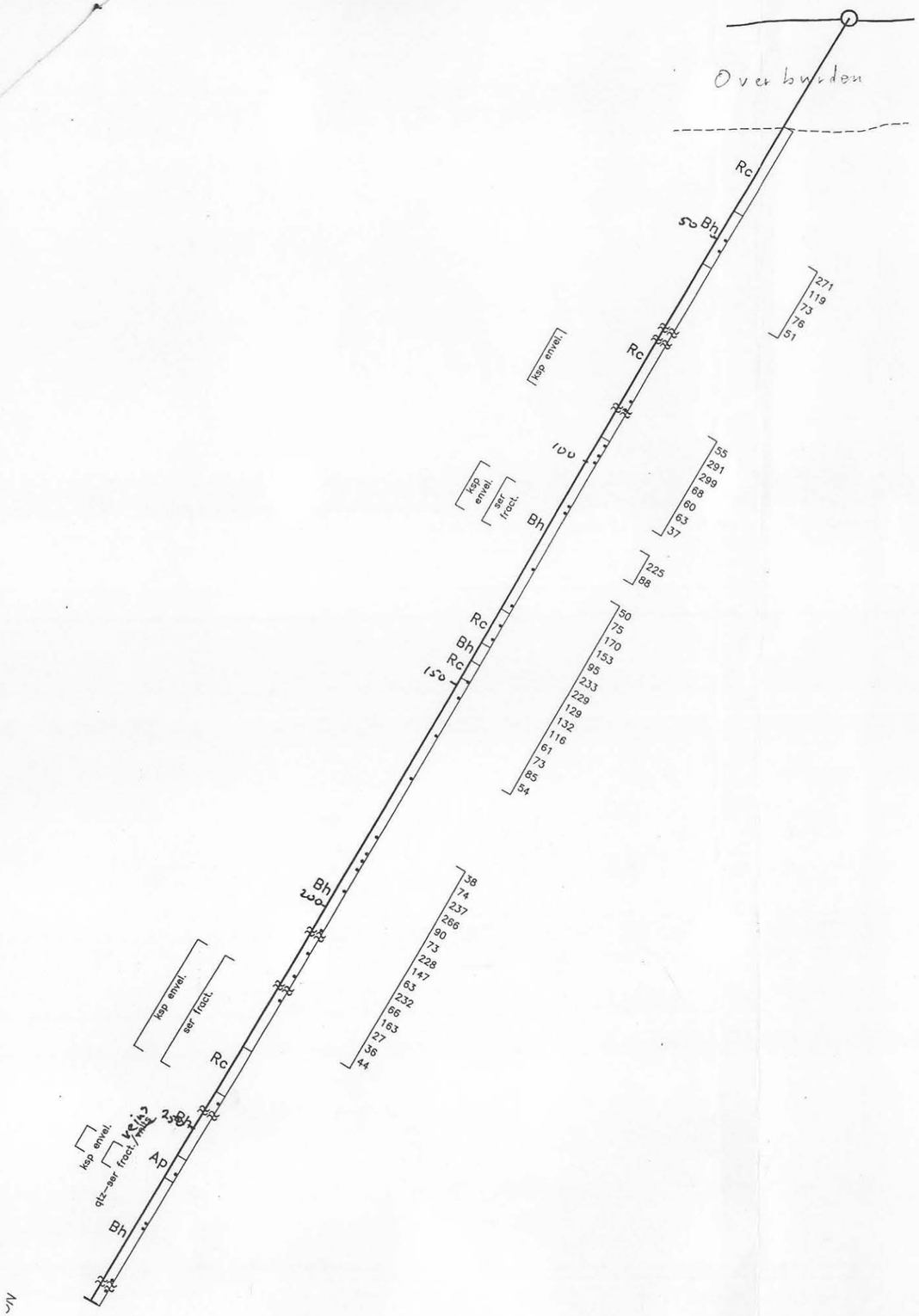
CVS PROPERTY

KAMLOOPS & NICOLA MINING DIVISIONS, B.C. NTS : 92 I/7

DRILL SECTION HOLE 93CVS-1

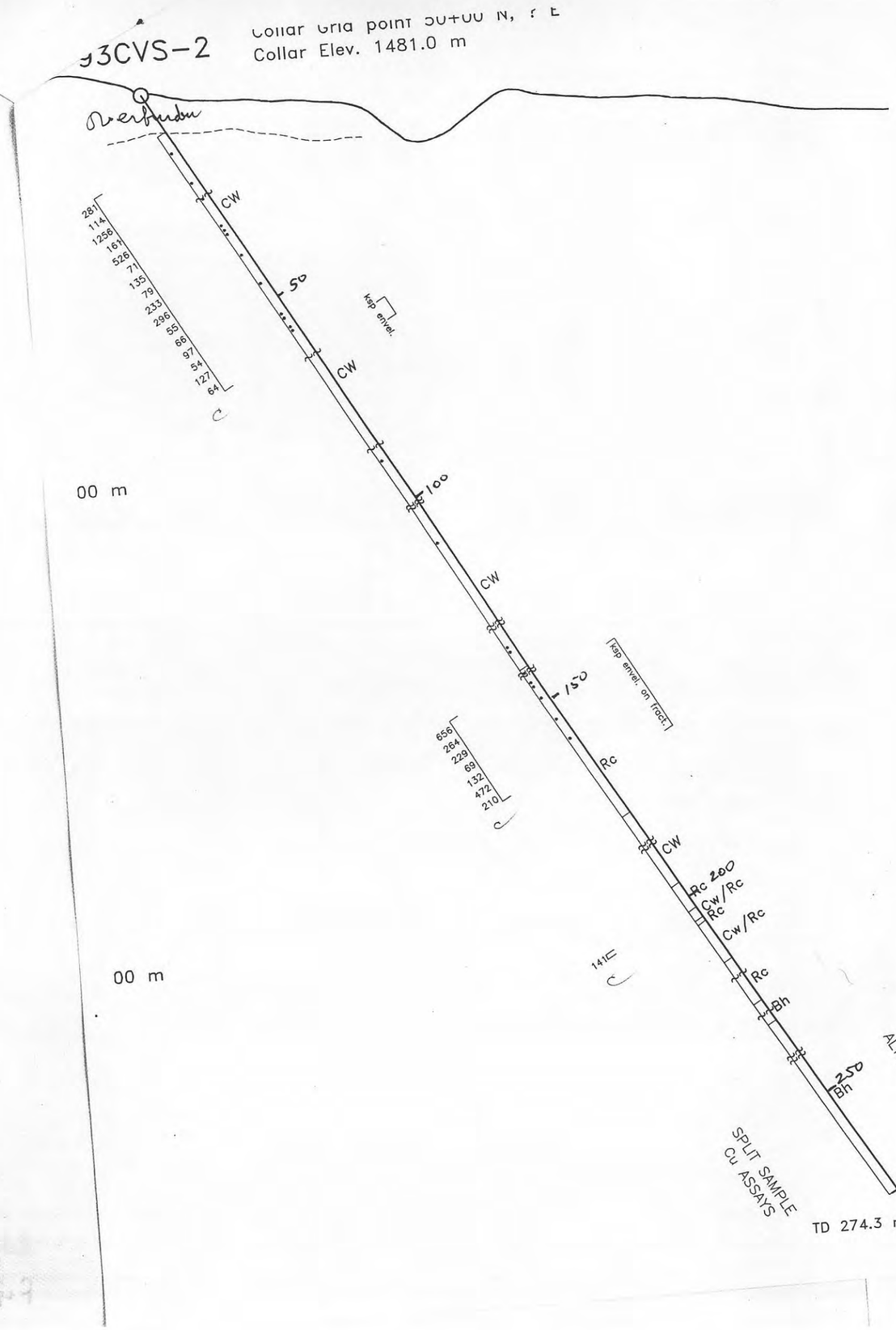
BY : S.E.	Drawn By : Luminai Drafting Ltd.	FILE : S1.DWG	
DATE : DEC. 1993	REVISED :	FIGURE : 4	

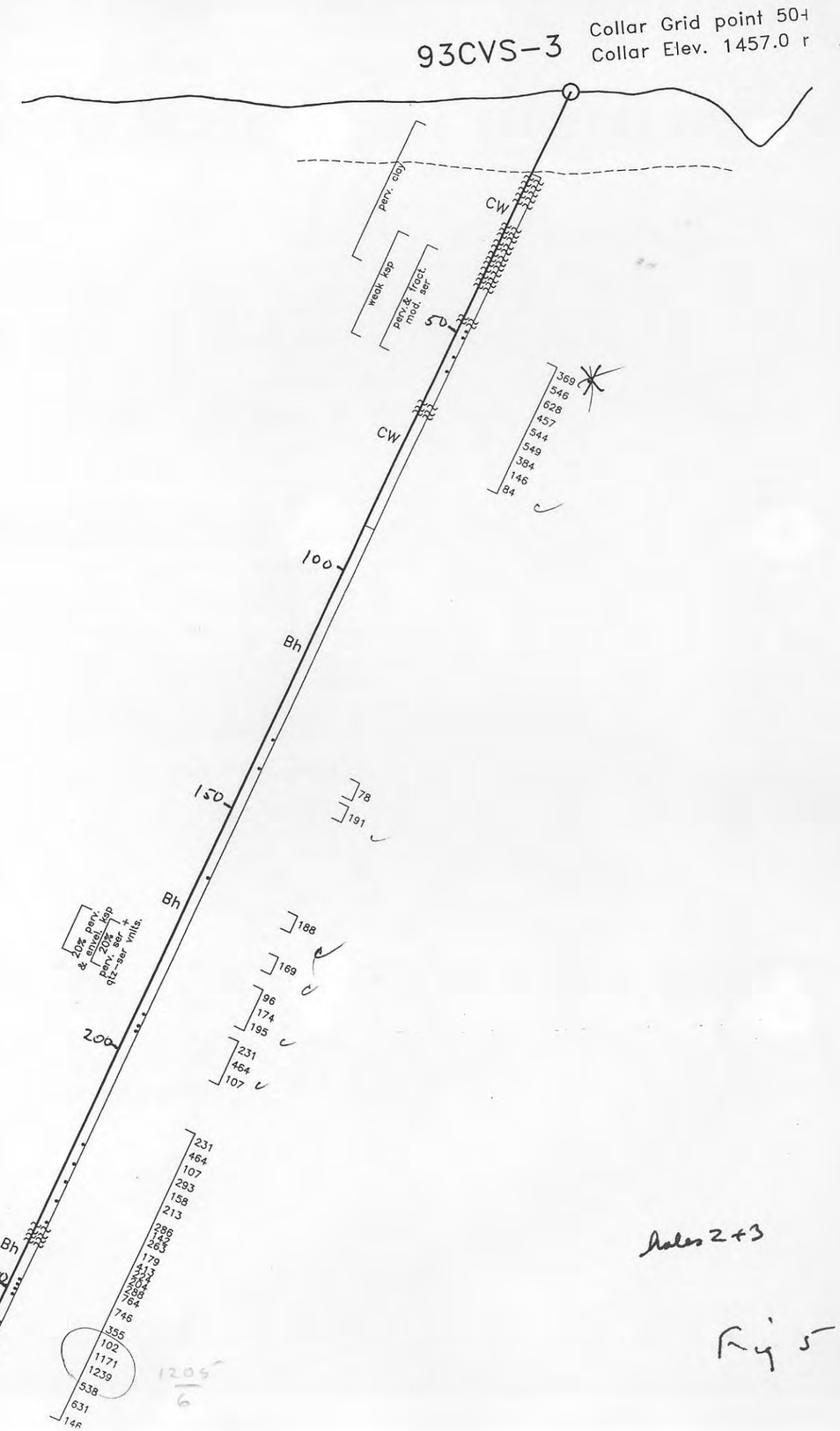
Collar E



Hole 1

Fig 4





holes 2+3

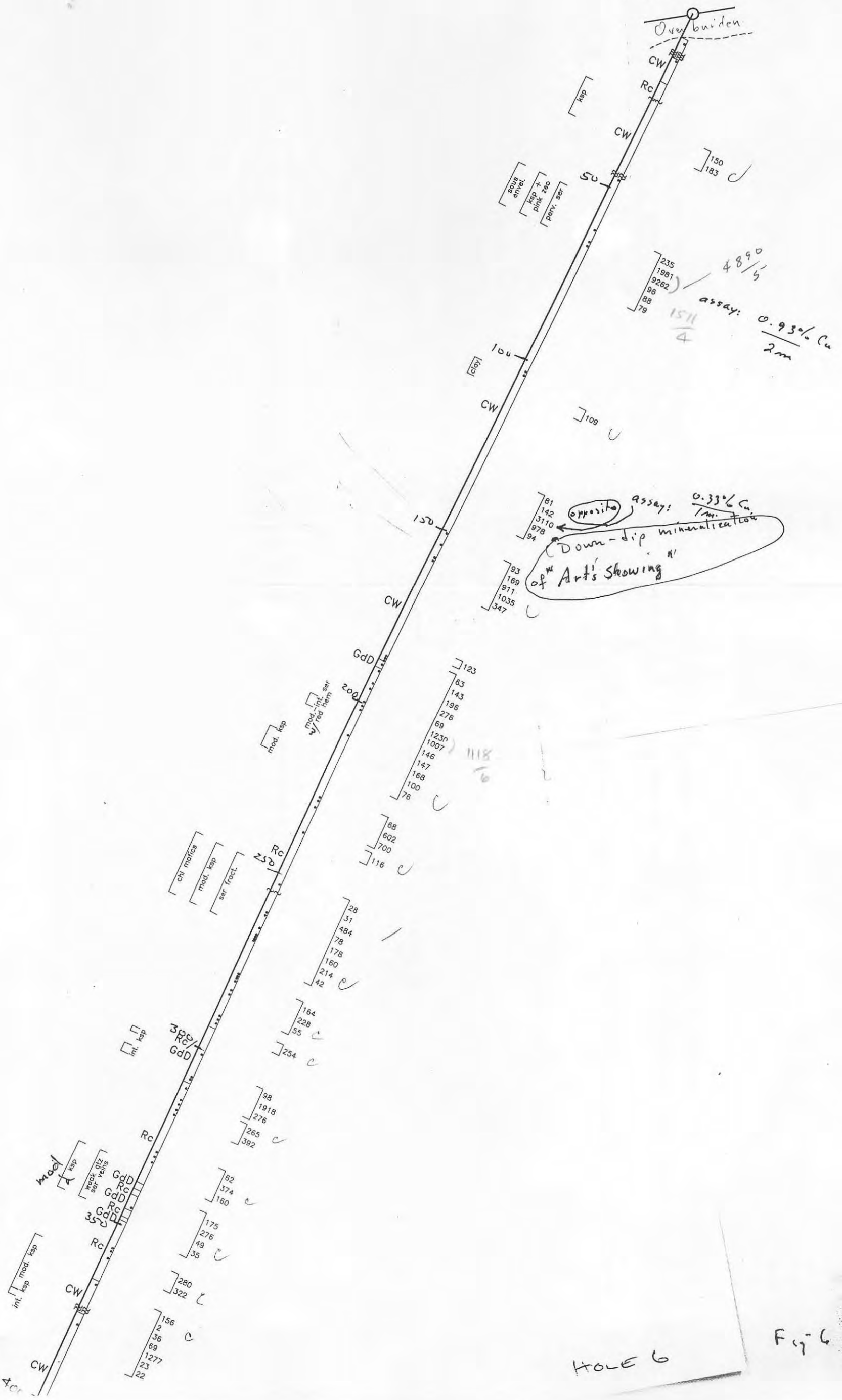
Fig 5

SOU

CTION 040° AZ. – FACING NORTHWEST)

93CVS-6

Collar Grid point 5
Collar Elev. 1487.4

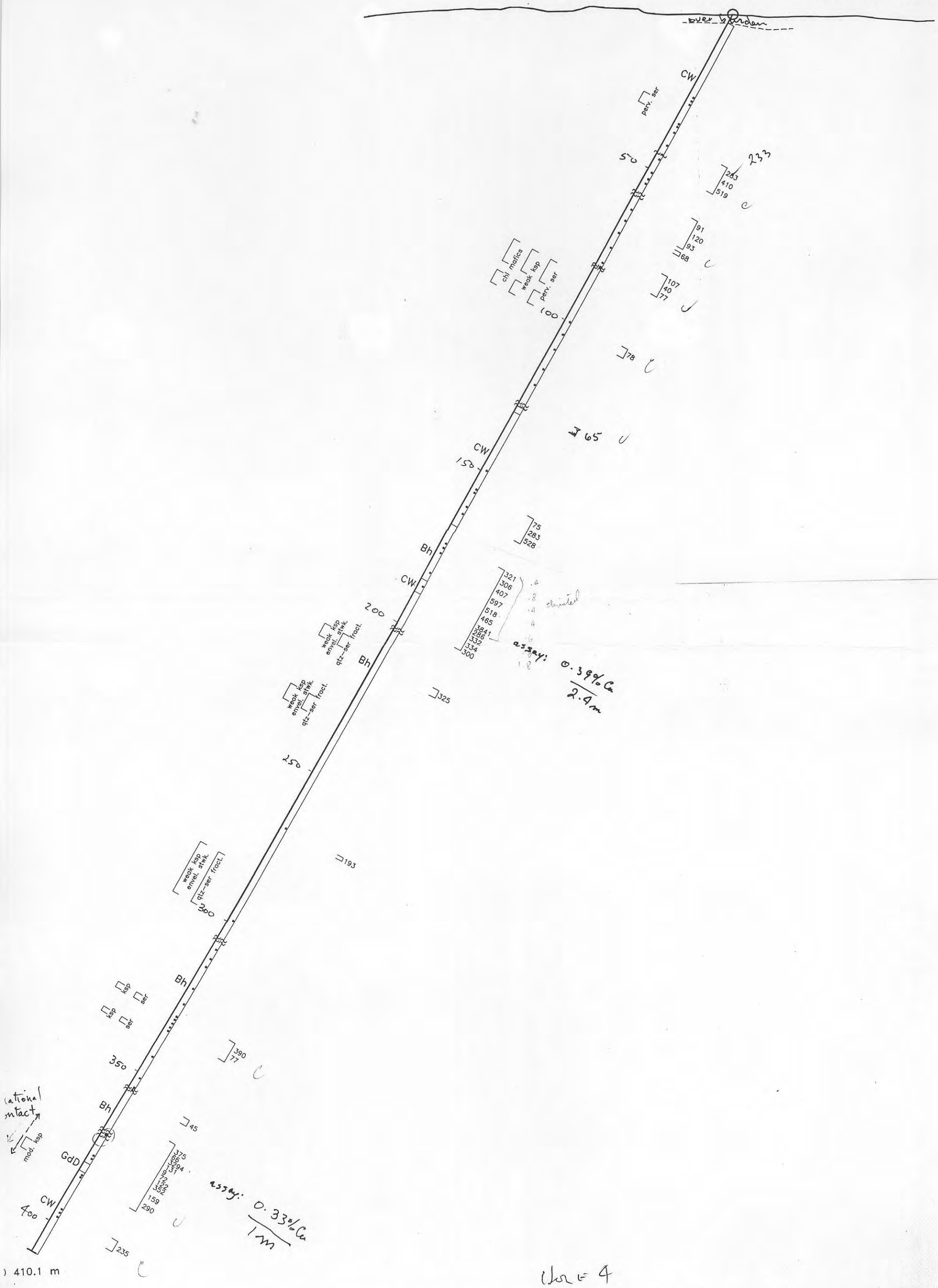


HOLE 6

Fig 6

93CVS-4

Collar Grid point ? N
Collar Elev. 1442.0 m



Line 4

Fig 7

Turn section 180°

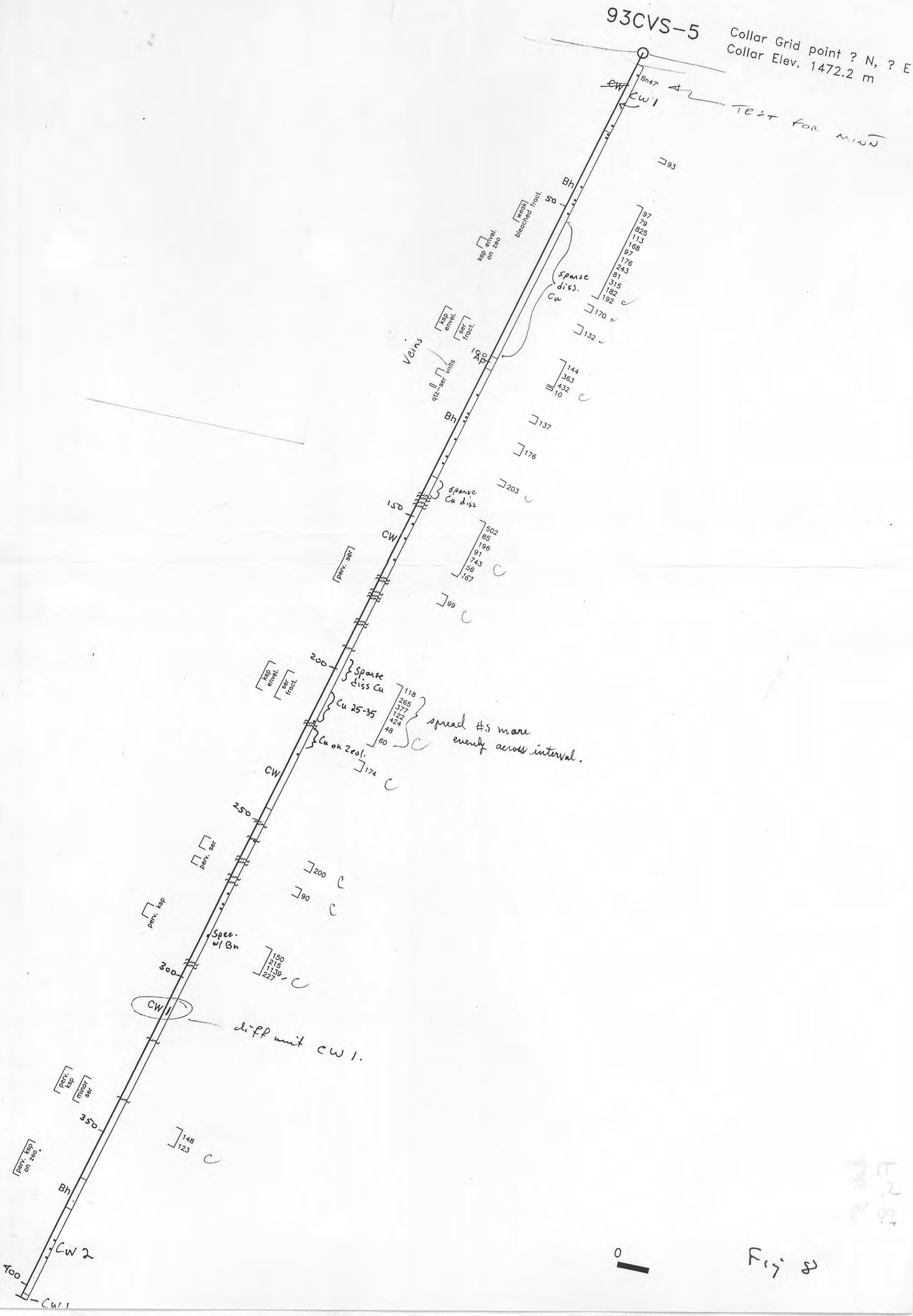
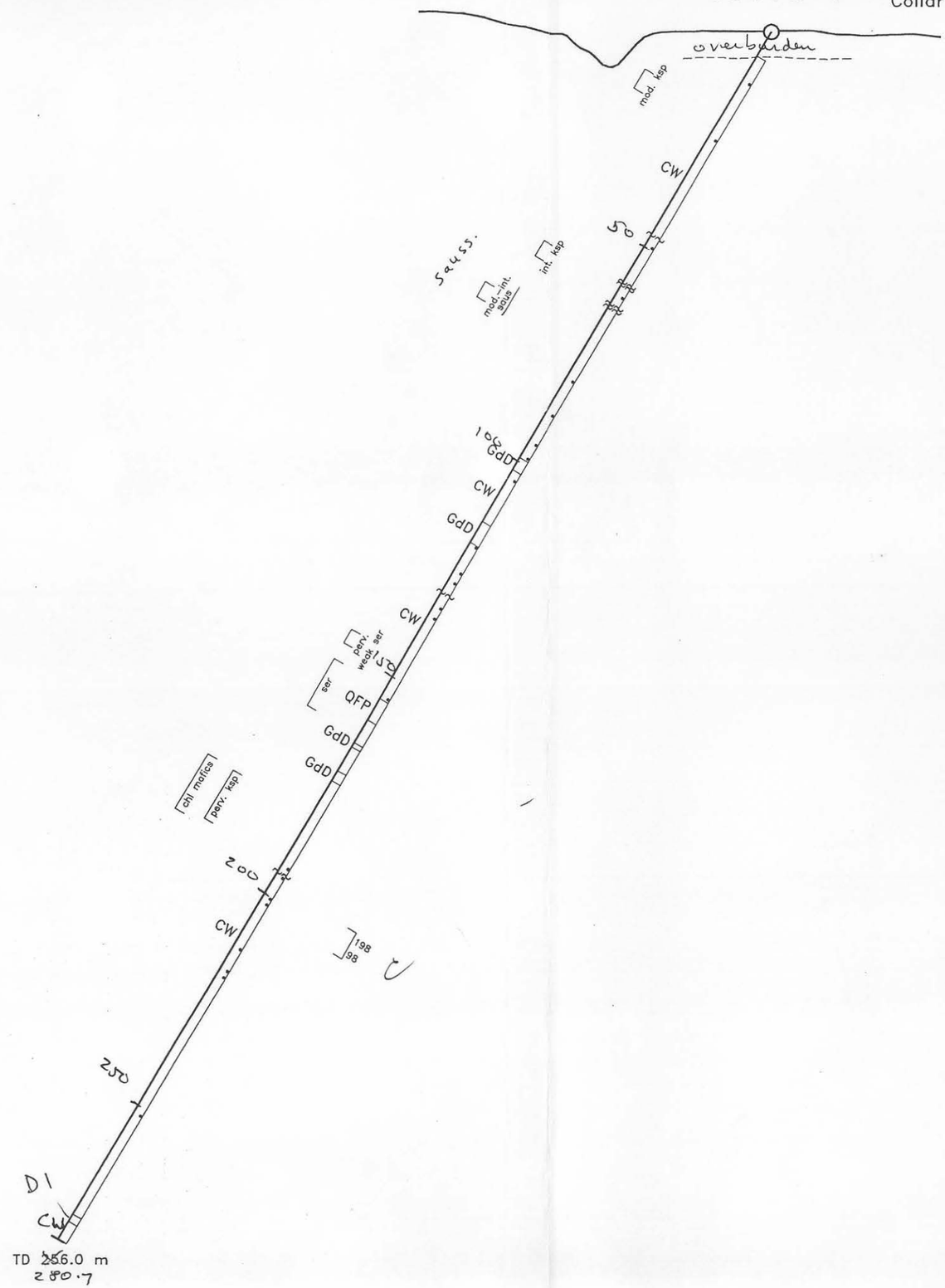


Fig 8

93CVS-7

Collar Grid
Collar Elev.



hole 7
Fig 10

C
CW
50
mod. ksp
GdD
Cc 75°
100
CW
GdD
CW
GdD
GdD
Cc, Bn 33-55°
150
GdD
334
305
268
285
ksp
weak ksp
ksp
200
GdD
CW
GdD
250
GdD
GdD
TD 256.0 m
ALTERATION
SPLIT SAMPLE
CU ASSAYS

HOLE 9

Fig 11

Turn section around 180°. (mirror image.)

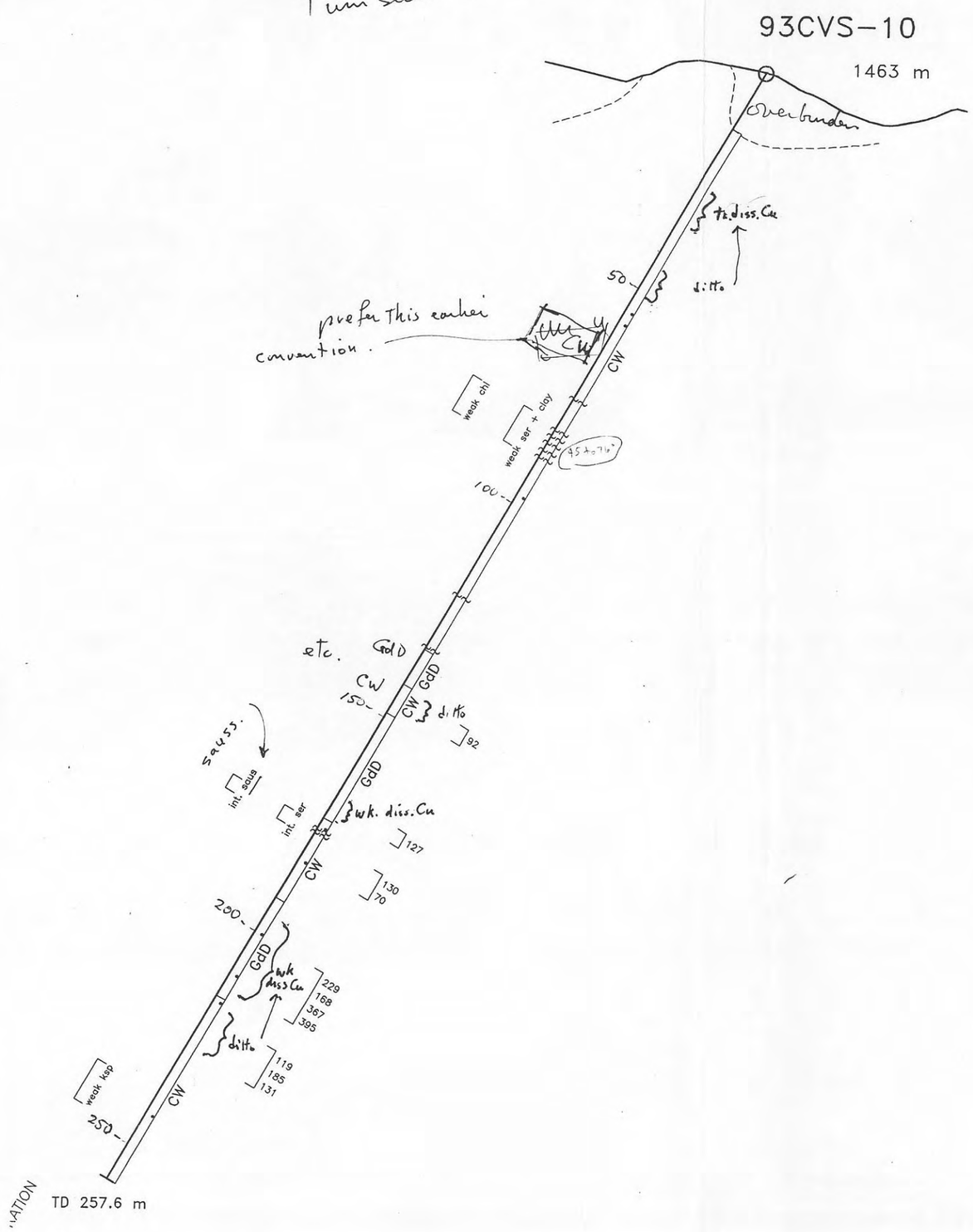
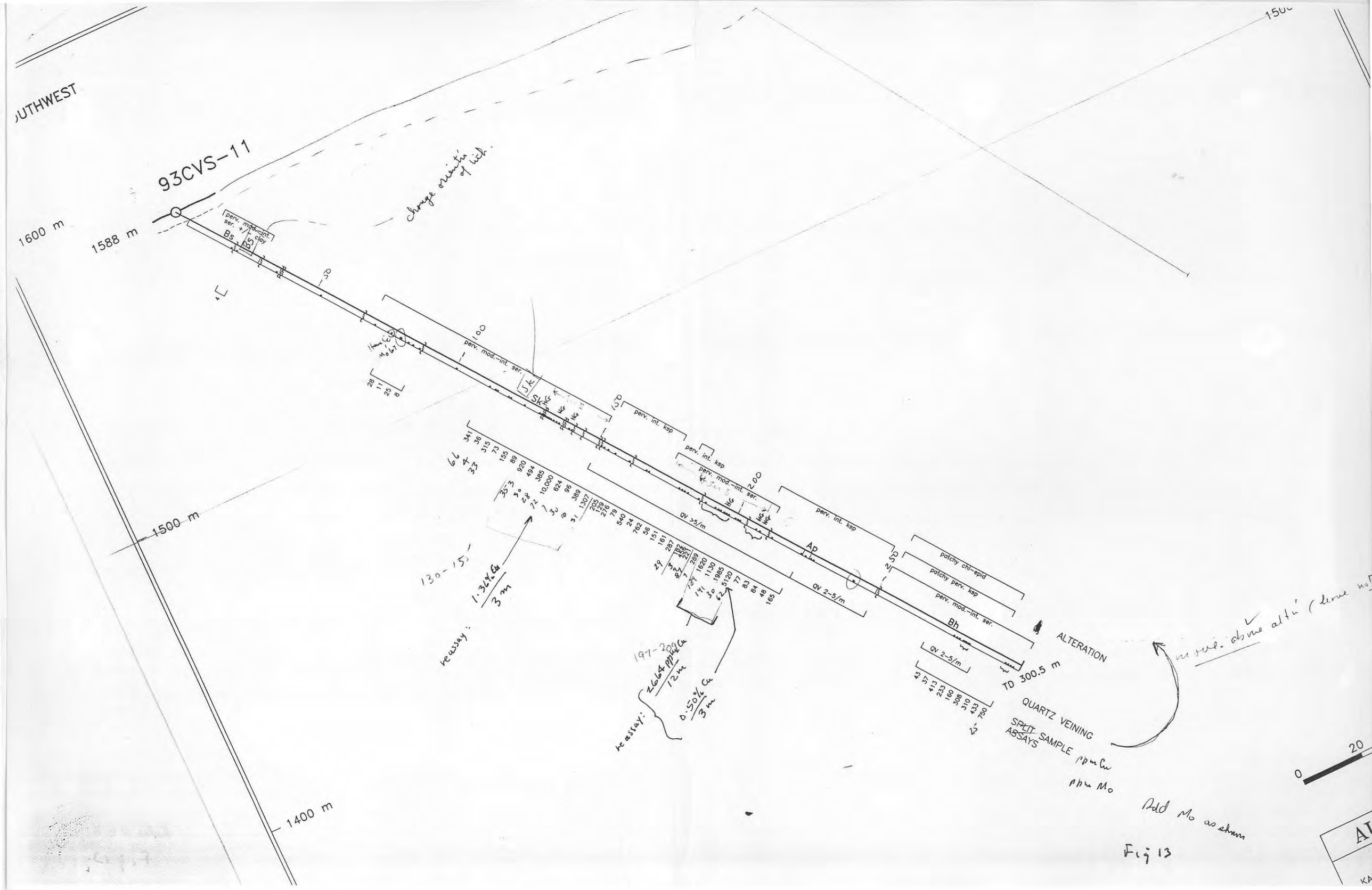


Fig 12



UTHWEST
93CVS-11
1600 m
1588 m
1500 m
1400 m
change orientation of lith.
perv. mod.-int. ser. + clay
Bs
perv. mod.-int. ser.
Sk
perv. int. ksp
perv. mod.-int. ser.
Ap
QV >5/m
QV 2-5/m
patchy chl-epid
patchy perv. ksp
perv. mod.-int. ser.
Bh
QV 2-5/m
ALTERATION
TD 300.5 m
QUARTZ VEINING
SPLIT SAMPLE ASSAYS
ppm Cu
ppm Mo
Add Mo as shown
130-155
1.36% Cu
3 m
reassay:
197-209
2664 ppm Cu
12 m
0.50% Cu
3 m
reassay:
0
20

Fig 13

(LINE OF SECTION 075° AZ. – LOOKING NORTH)

part of Fig 13.

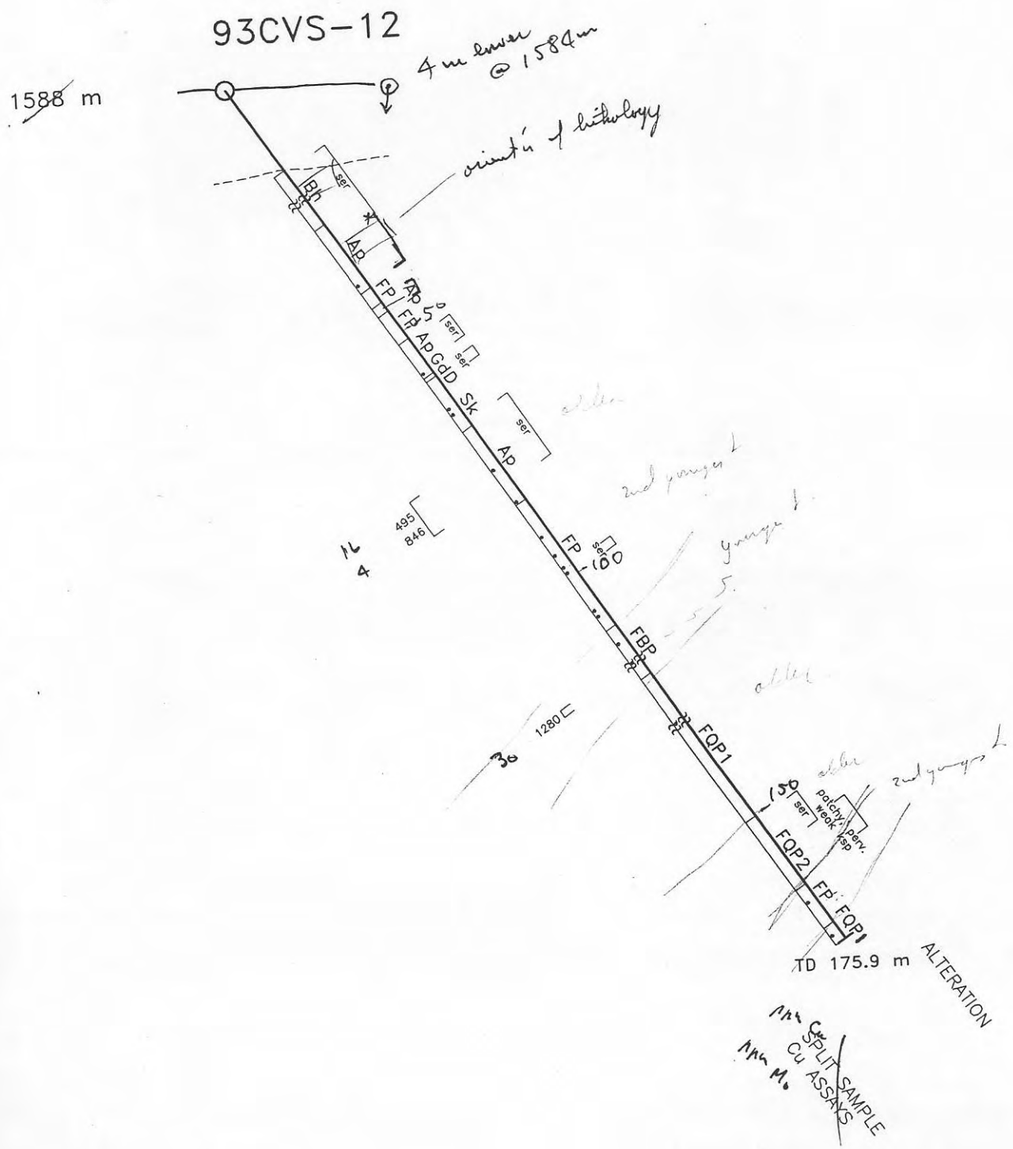


Fig 13

93CVS-13

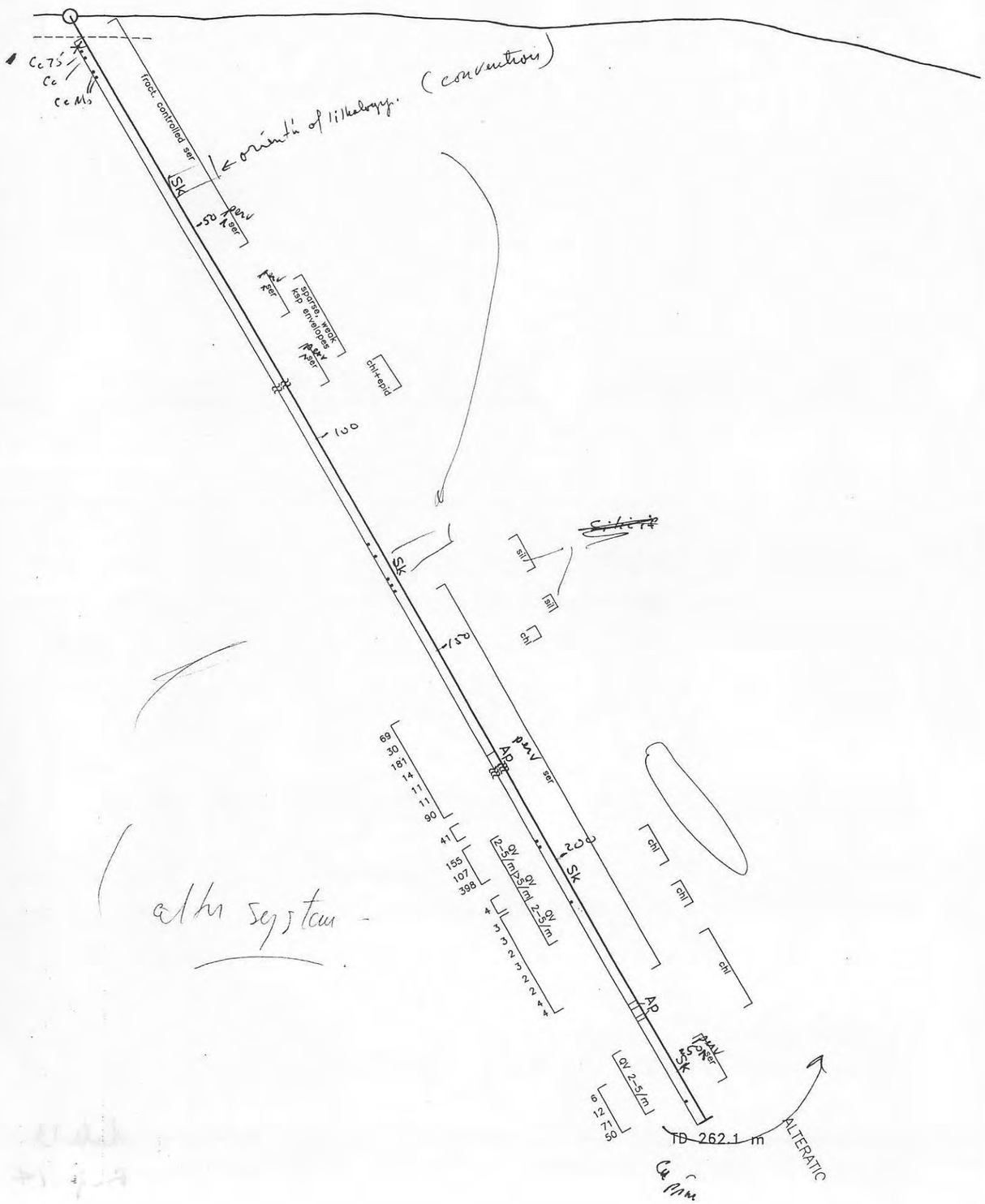
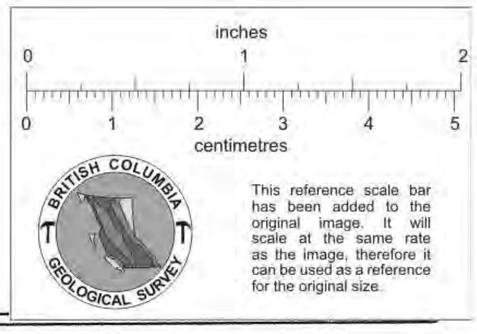


Fig 14



WEST

(LINE OF SECTION 5800 N - FACING NORTH)

3300 E

3400 E

Scale 1:1,000

Figure 4

93CVS-1

1500 m

1400 m

1300 m

1200 m

ALTERATION

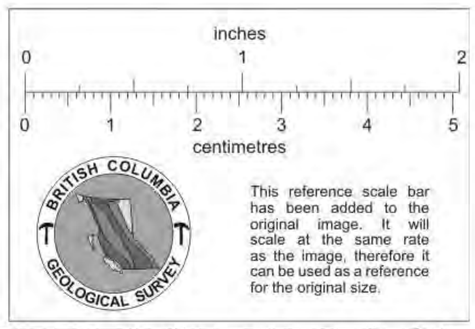
TD 288.3 m

Cu ppm

LEGEND

FBP	Feldspar
FP	Pink fel
FQP1	Crowded
FQP2	Altered
QFP	Quartz f
Ap	Pink apl
GdD	Grey gr
Bs	Bethsaid
Sk	Skeena
Bh	Bethlehe
Rc	Roscoe
CW2	Chatawa
CW1	Chatawa
CW	Chatawa
~~	Fault
°Cu 15°	Mineraliz Cu=n Cp=c Mal=n
HG	High gr

Figure 5 west



WEST

(LINE OF SECTION 5000 N - FACING NORTH)

3200 E

3300 E

3400 E

1500 m

93CVS-2

Collar Grid point 4987 N, 3166 E
Collar Elev. 1481.0 m

1400 m

1300 m

1200 m

ALTERATION

Cu ppm

TD 274.3 m

TD 279.8 m

LEGEND

- Overburden
- FBP Feldspar biotite porphyry
- FP Pink feldspar porphyry

Figure 5 east

inches 0 1 2
0 1 2 3 4 5 centimetres

BRITISH COLUMBIA GEOLOGICAL SURVEY

This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.

EAST

(LINE OF SECTION 5000 N - FACING NORTH)

3300 E 3400 E 3500 E

3166 E

93CVS-3 Collar Grid point 5000 N, Collar Elev. 1457.0 m

1

13

120

TD 274.3 m

TD 279.8 m

ALTERATION

ALTERATION

Cu ppm

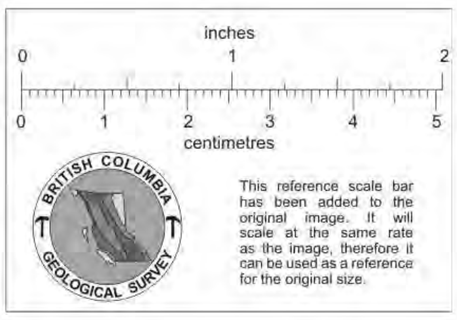
Cu ppm

porphyry
orphyry
ar quartz porphyry

NORTHEAST

Figure 6

(LINE OF SECTION 040° AZ. – FACING NORTHWEST)



1500 m

93CVS-6

Collar Grid point 5483 N, 3242 E
Collar Elev. 1487.4 m

1400 m

1300 m

0 m

LEGEND

	Overburden
FBP	Feldspar biotite porphyry
FP	Pink feldspar porphyry
FQP1	Crowded feldspar quartz porphyry
FQP2	Altered feldspar quartz porphyry
QFP	Quartz feldspar porphyry
Ap	Pink aplite
GdD	Grey granodiorite dyke
Bs	Bethsalda quartz monzonite
Sk	Skeena quartz monzonite
Bh	Bethlehem granodiorite
Rc	Roscoe granodiorite
CW2	Chataway granodiorite – pink mottled phase
CW1	Chataway granodiorite – finer grained phase
CW	Chataway granodiorite
~~	Fault
*Cu 15°	Mineralization with core-axis angle Cu=native copper; Cc=chalcocite; Bn=bornite; Cp=chalcopyrite; Hem=hematite; Spec=specularite; Mal=malachite
HG	High grade veins

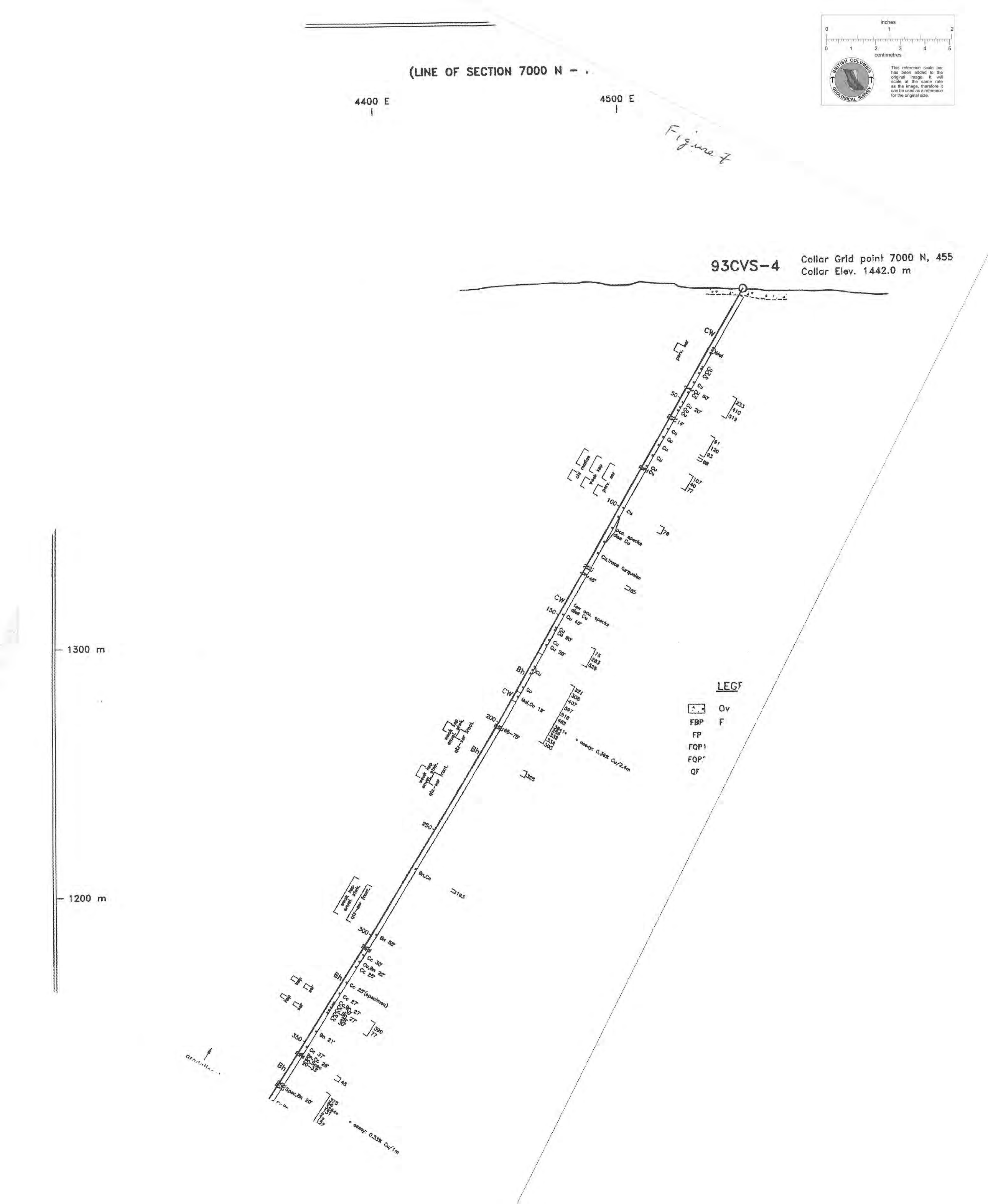
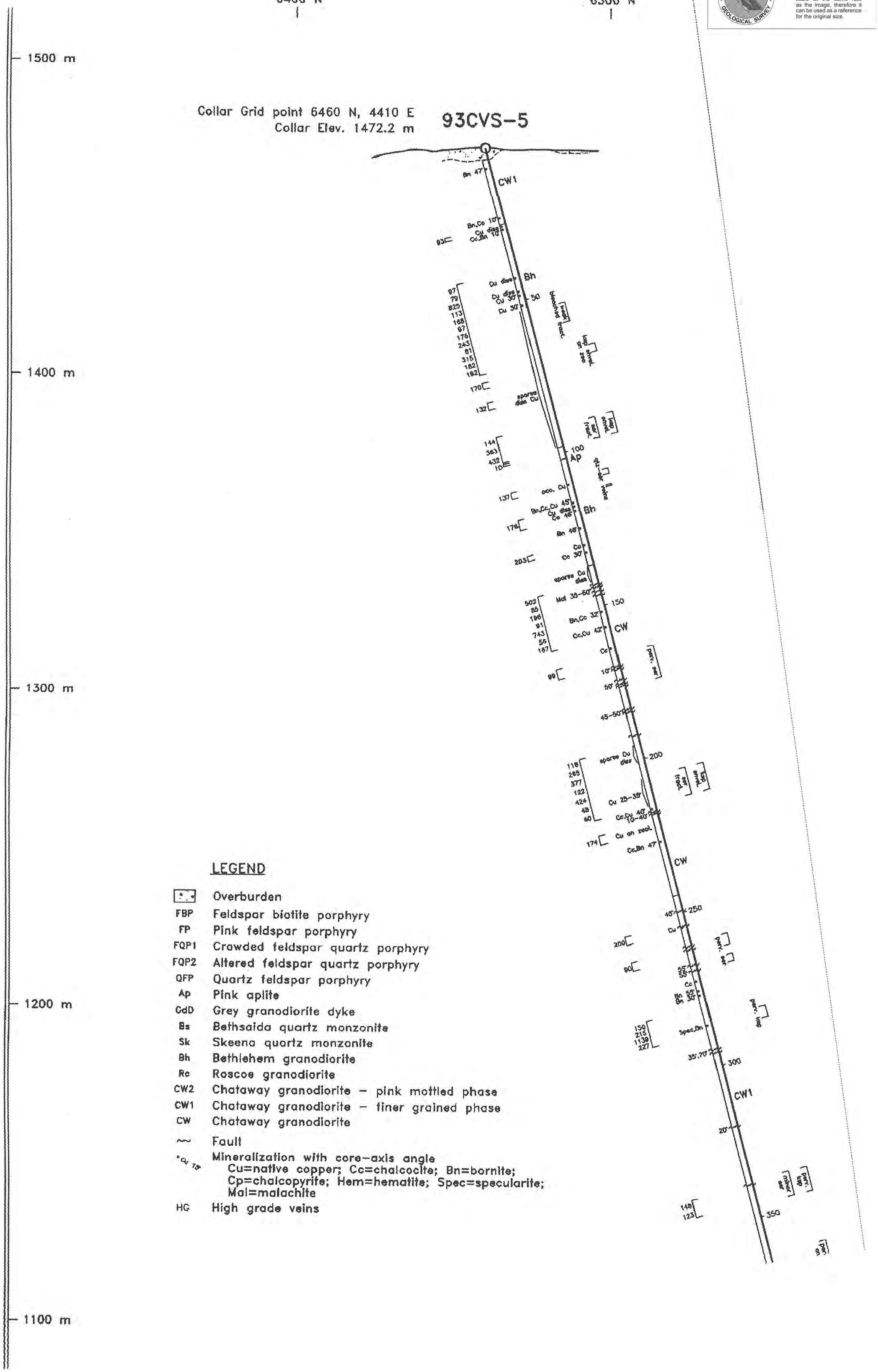

inches
0
1
2
0
1
2
3
4
5
centimetres
BRITISH COLUMBIA
GEOLOGICAL SURVEY
This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.
(LINE OF SECTION 7000 N - .
4400 E
4500 E
Figure 7
93CVS-4
Collar Grid point 7000 N, 455
Collar Elev. 1442.0 m
1300 m
1200 m
LEGE
Ov
F
FBP
FP
FQP1
FQP
QF
* assay: 0.38% Cu/2.4m
* assay: 0.35% Cu/1m

Figure 8


(LINE OF SECTION 440
6400 N
6500 N
1500 m
1400 m
1300 m
1200 m
1100 m
Collar Grid point 6460 N, 4410 E
Collar Elev. 1472.2 m
93CVS-5
CW1
Bh
Ap
CW
LEGEND
Overburden
FBP Feldspar biotite porphyry
FP Pink feldspar porphyry
FQP1 Crowded feldspar quartz porphyry
FQP2 Altered feldspar quartz porphyry
QFP Quartz feldspar porphyry
Ap Pink aplite
GdD Grey granodiorite dyke
Bs Bethsaida quartz monzonite
Sk Skeena quartz monzonite
Bh Bethlehem granodiorite
Rc Roscoe granodiorite
CW2 Chataway granodiorite – pink mottled phase
CW1 Chataway granodiorite – finer grained phase
CW Chataway granodiorite
Fault
Mineralization with core-axis angle
Cu=native copper; Cc=chalcocite; Bn=bornite;
Cp=chalcopyrite; Hem=hematite; Spec=specularite;
Mal=malachite
HG High grade veins

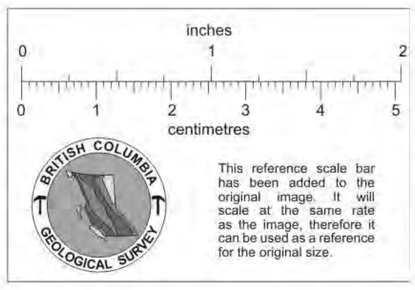
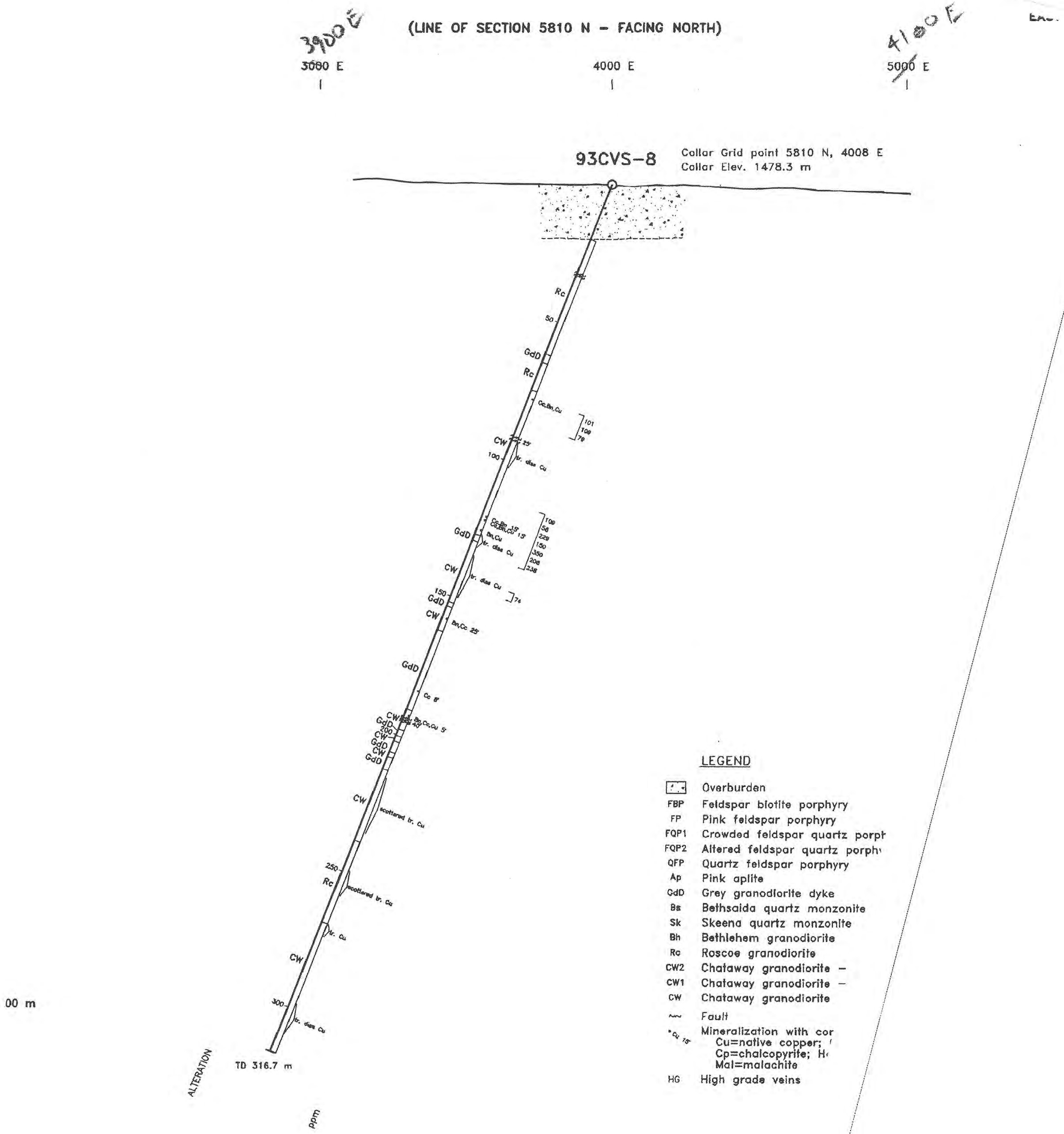
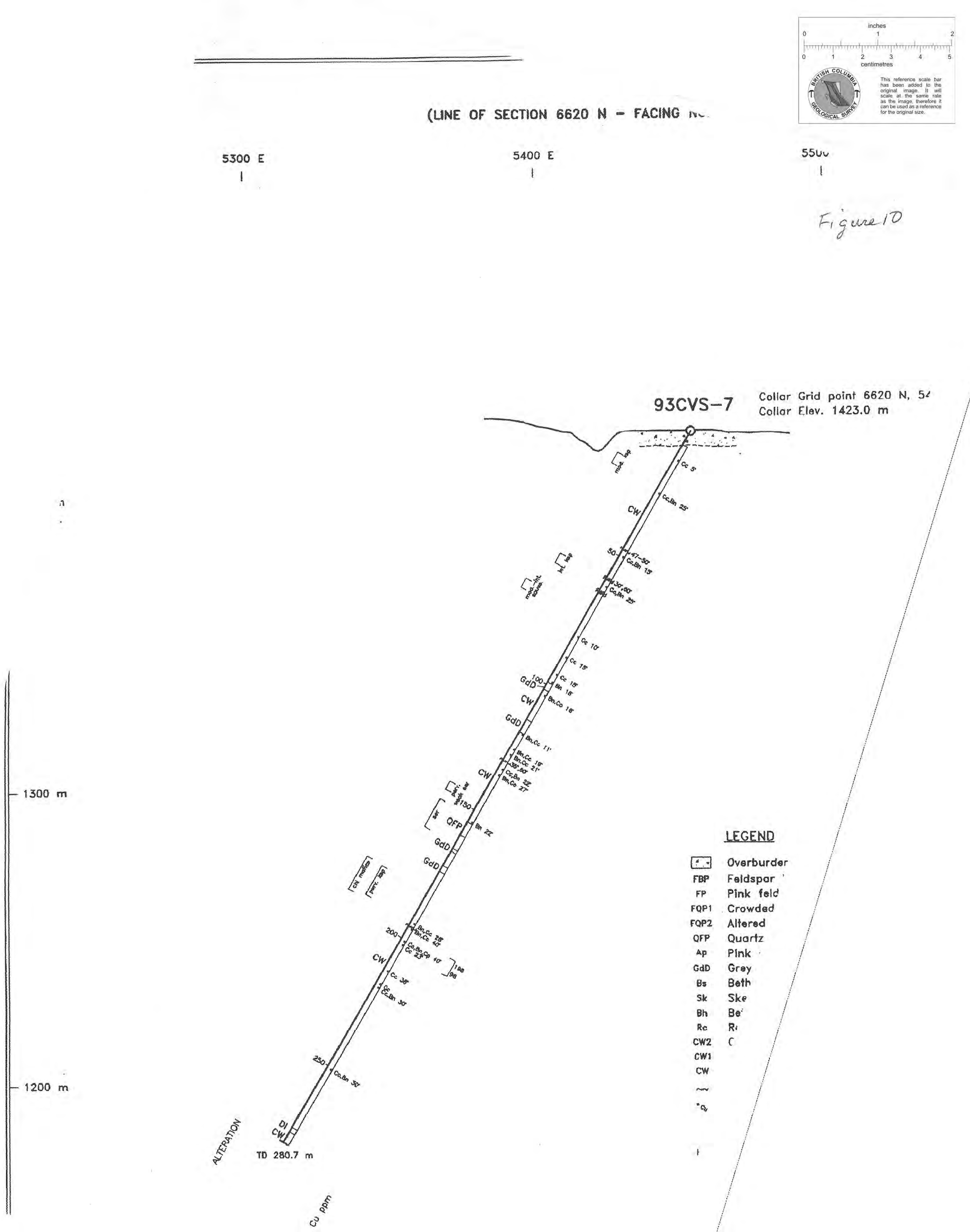

inches
0
1
2
0
1
2
3
4
5
centimetres
BRITISH COLUMBIA
GEOLOGICAL SURVEY
This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.

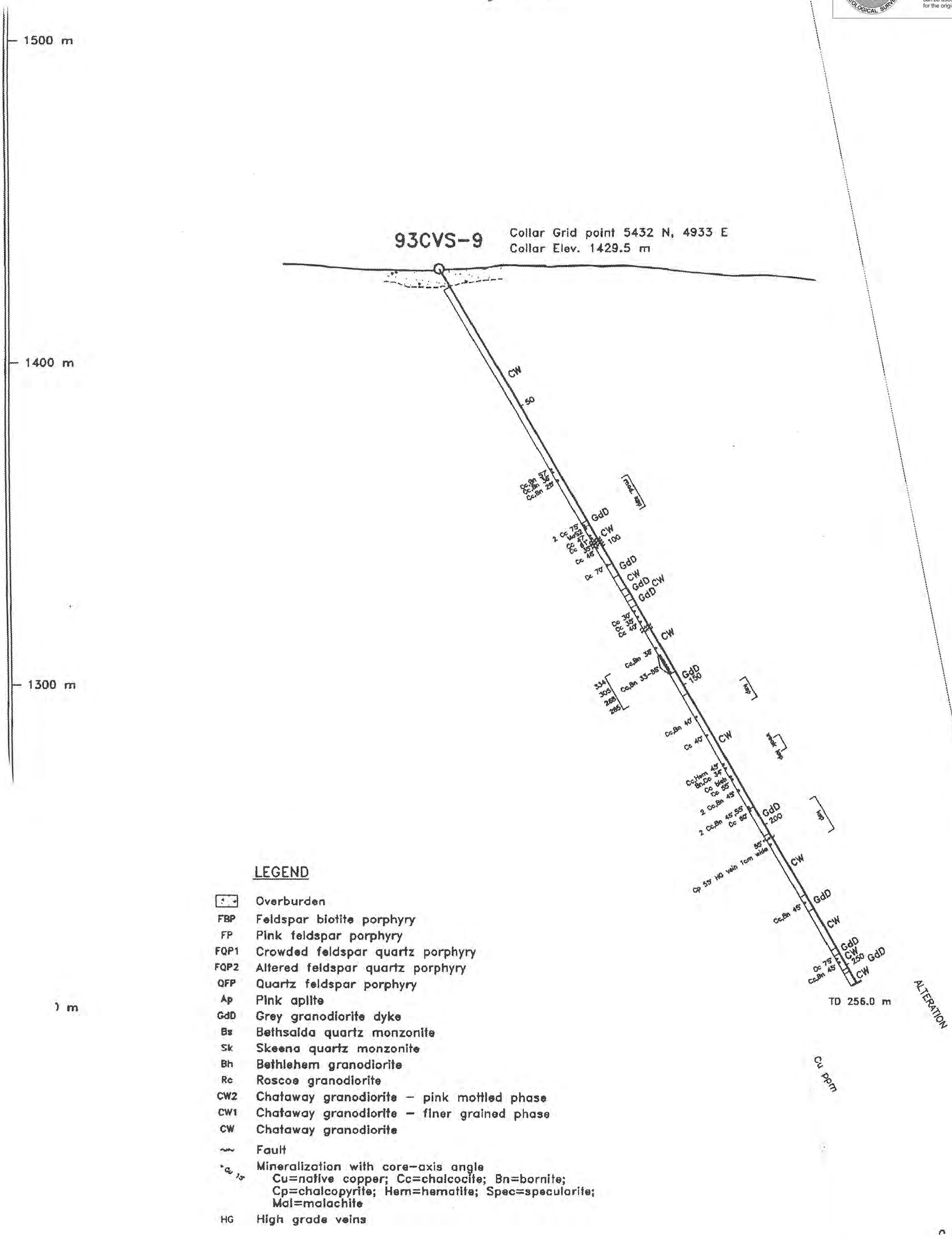
Figure 9

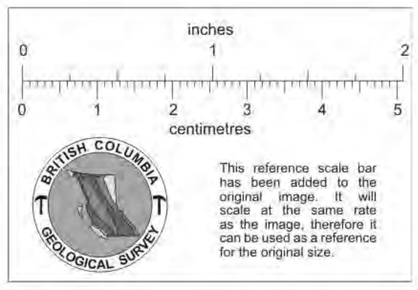

(LINE OF SECTION 5810 N - FACING NORTH)
3900 E
3000 E
4000 E
4100 E
5000 E
93CVS-8
Collar Grid point 5810 N, 4008 E
Collar Elev. 1478.3 m
Rc
GdD
CW
Cc,Bn,Cu
tr. diss Cu
Bn,Cu
Bn,Cc 25'
Cc 8'
Bn,Cc,cu 5'
scattered tr. Cu
tr. Cu
TD 316.7 m
ALTERATION
ppm
LEGEND
Overburden
FBP Feldspar biotite porphyry
FP Pink feldspar porphyry
FQP1 Crowded feldspar quartz porph
FQP2 Altered feldspar quartz porph
QFP Quartz feldspar porphyry
Ap Pink aplite
GdD Grey granodiorite dyke
Bs Bethsaida quartz monzonite
Sk Skeena quartz monzonite
Bh Bethlehem granodiorite
Rc Roscoe granodiorite
CW2 Chataway granodiorite -
CW1 Chataway granodiorite -
CW Chataway granodiorite
Fault
Mineralization with cor
Cu=native copper;
Cp=chalcopyrite; H
Mal=malachite
HG High grade veins


inches
centimetres
This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.
(LINE OF SECTION 6620 N - FACING
5300 E
5400 E
Figure 10
93CVS-7
Collar Grid point 6620 N, 5
Collar Elev. 1423.0 m
1300 m
1200 m
LEGEND
Overburden
FBP Feldspar
FP Pink feld
FQP1 Crowded
FQP2 Altered
QFP Quartz
Ap Pink
GdD Grey
Bs Beth
Sk Ske
Bh Be
Rc R
CW2 C
CW1
CW
TD 280.7 m
ALTERATION
CU ppm

(LINE OF SECTION 045° AZ. – FACING

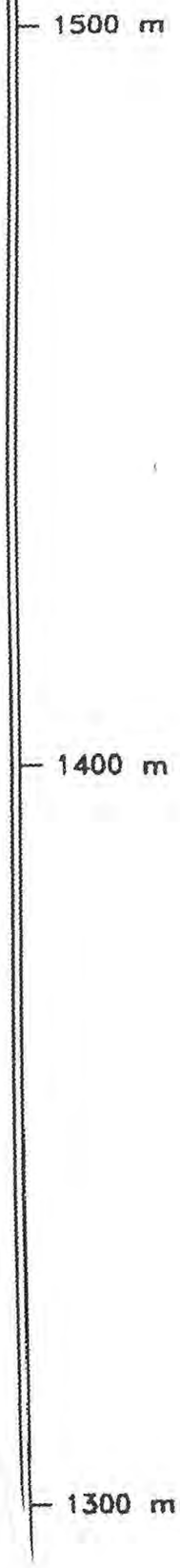
Figure 11





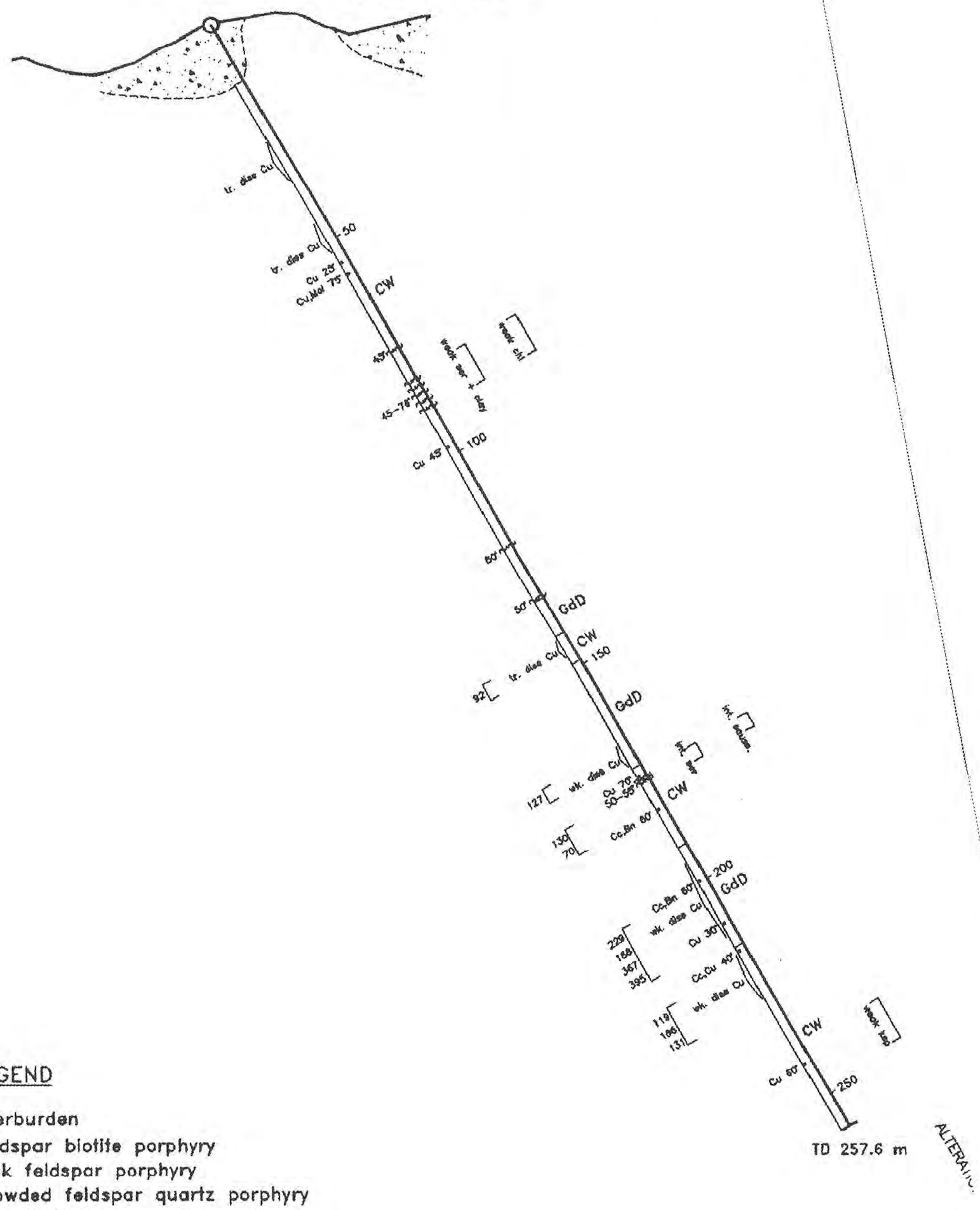
(LINE OF SECTION 040° AZ. – FACING NO

Figure 12



93CVS-10

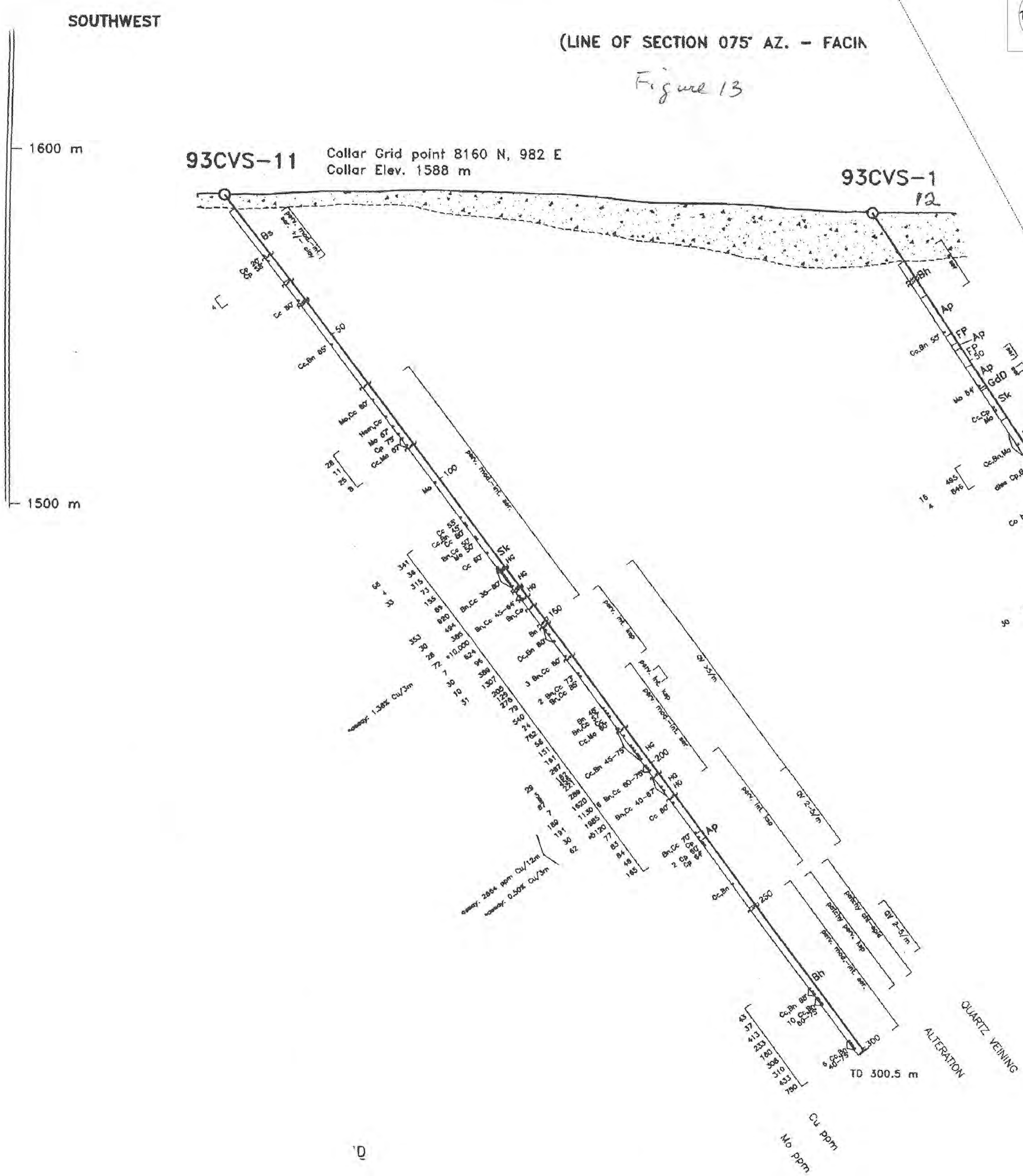
Collar Grid point 4125 N, 4675 E
Collar Elev. 1463 m

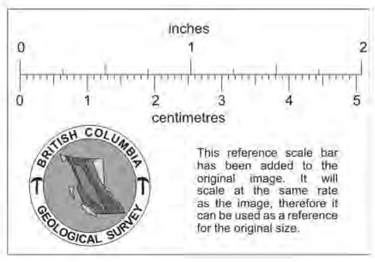


m

LEGEND

	Overburden
FBP	Feldspar biotite porphyry
FP	Pink feldspar porphyry
FQP1	Crowded feldspar quartz porphyry
FQP2	Altered feldspar quartz porphyry
QFP	Quartz feldspar porphyry
Ap	Pink aplite
GdD	Grey granodiorite dyke
Bs	Bethsaida quartz monzonite
Sk	Skeena quartz monzonite
Bh	Bethlehem granodiorite
Rc	Roscoe granodiorite
CW2	Chataway granodiorite – pink mottled phase
CW1	Chataway granodiorite – finer grained phase
CW	Chataway granodiorite
~~	Fault
°Cu, Hem	Mineralization with core-axis angle Cu=native copper; Cc=chalcocite; Bn=bornite; Cp=chalcopyrite; Hem=hematite; Spec=specularite; Mal=malachite
HG	High grade veins





'D

'n

iotite porphyry

'r porphyry

spar quartz porphyry

r quartz porphyry

porphyry

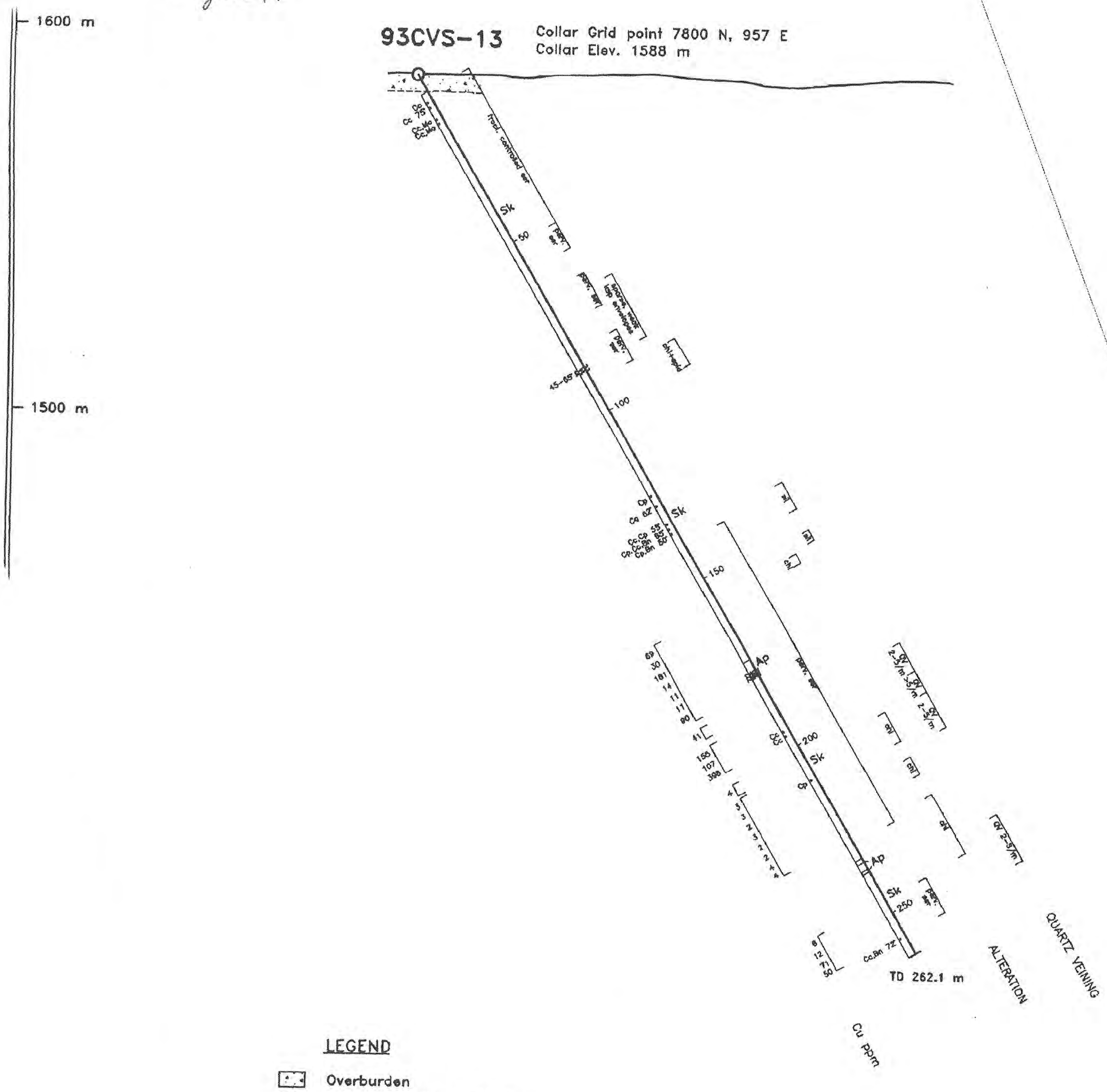
lyke

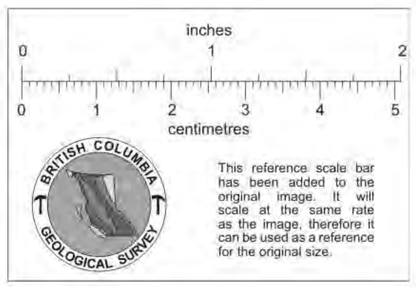
nzonite

nite

Figure 14

(LINE OF SECTION 075° AZ. –

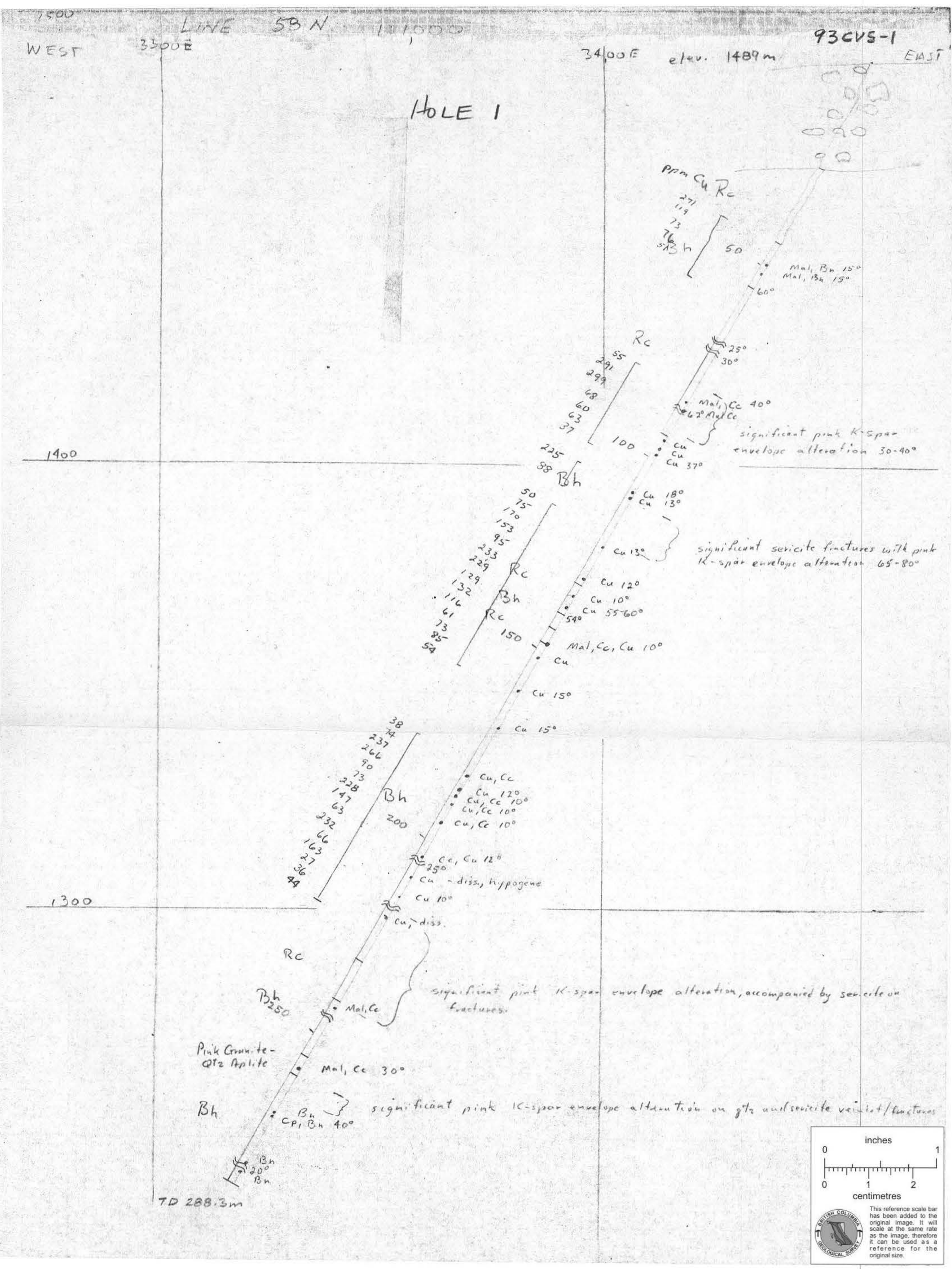


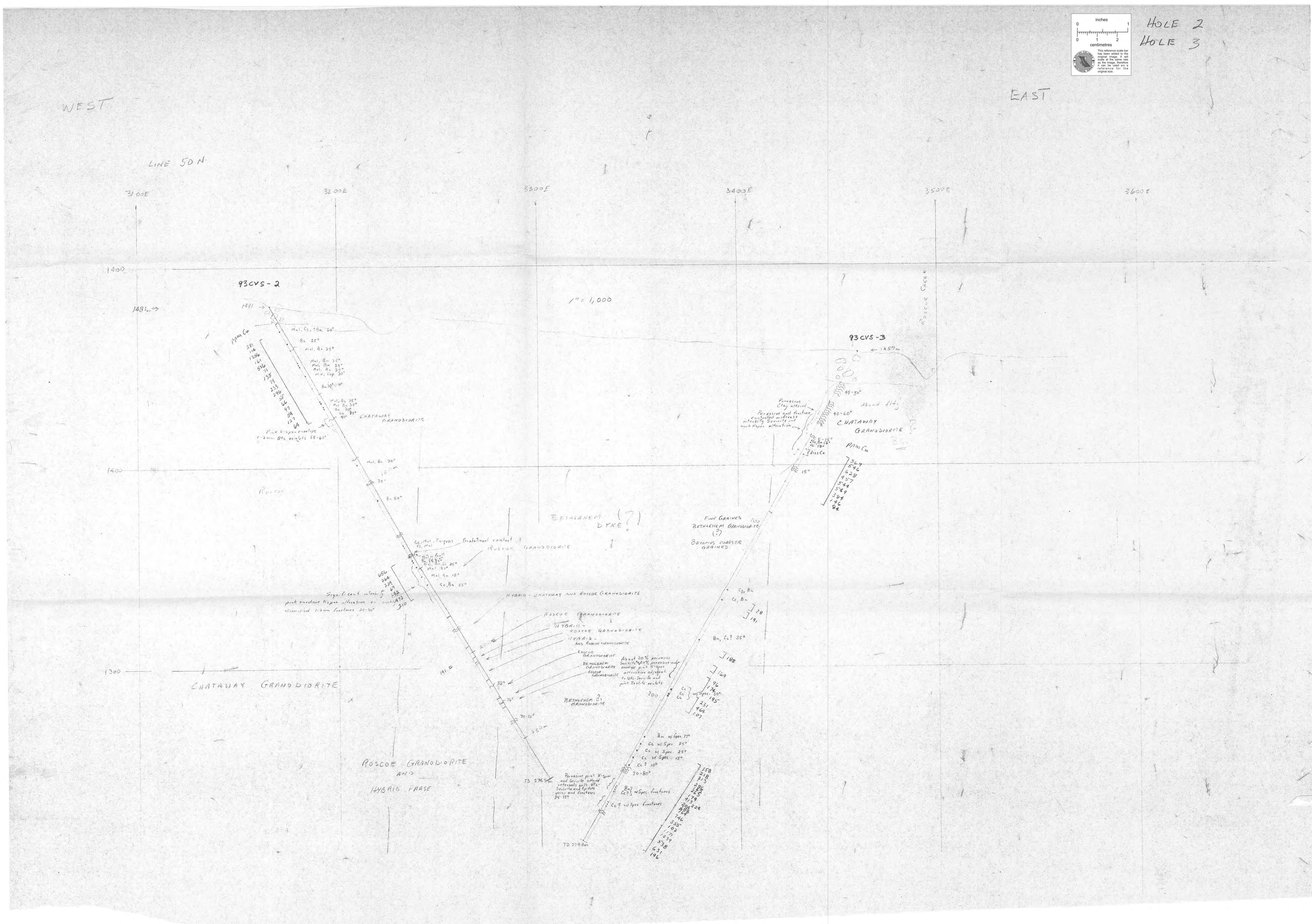


LEGEND

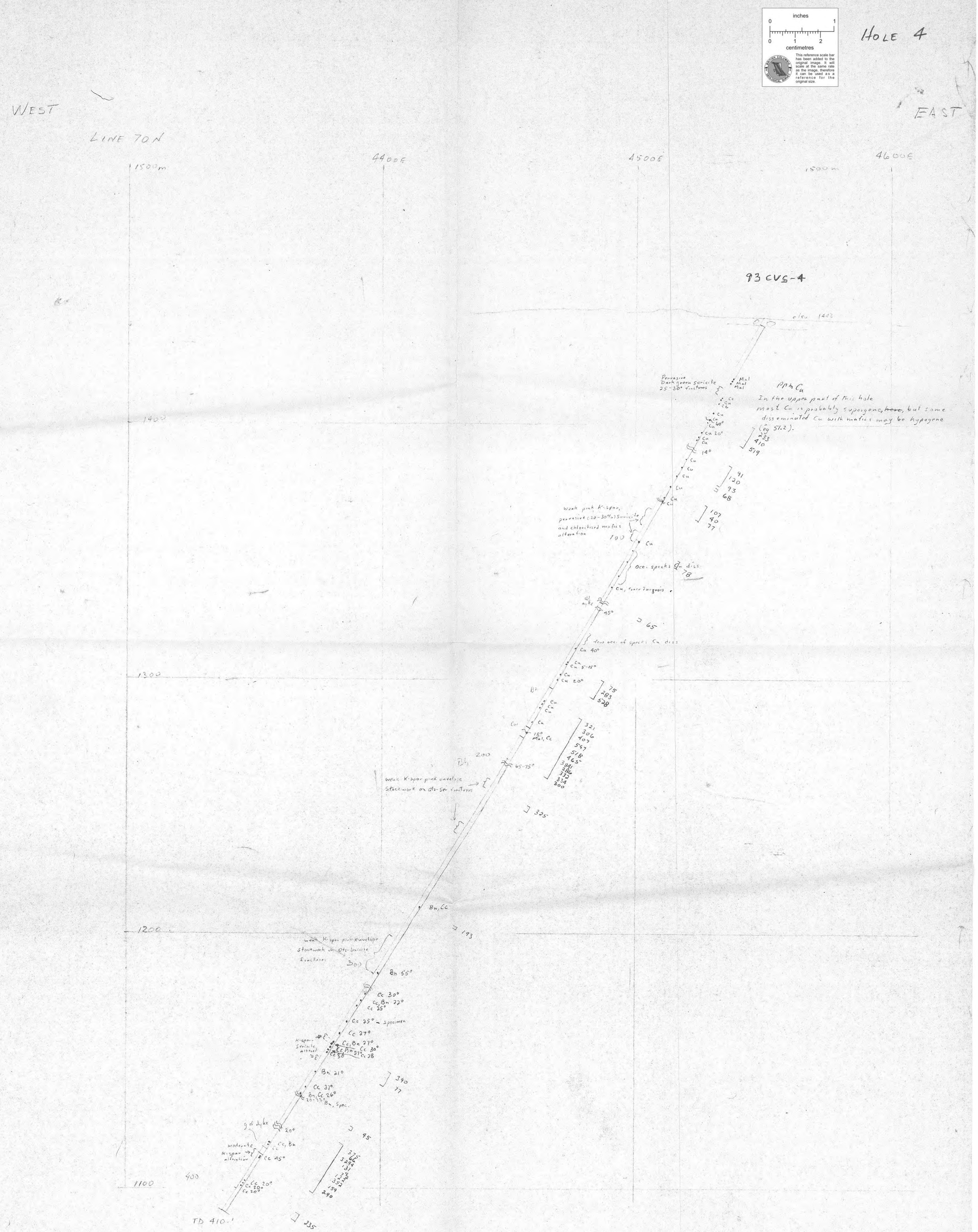
- Overburden
- FBP — Feldspar biotite porphyry
- FP — Pink feldspar porphyry
- FQP1 — Crowded feldspar quartz porphyry
- FQP2 — Altered feldspar quartz porphyry
- QFP — Quartz feldspar porphyry
- Ap — Pink aplite
- GdD — Grey granodiorite dyke
- Bs — Bethsaida quartz monzonite
- Sk — Skeena quartz monzonite
- Bh — Bethlehem granodiorite
- Rc — Roscoe granodiorite
- CW2 — Chataway granodiorite – pink mottled phase
- CW1 — Chataway granodiorite – finer grained phase
- W — Chataway granodiorite
- Fault
- Mineralization with core-axis angle
  Cu=native copper; Cc=chalcocite; Bn=bornite; Cp=chalcopyrite; Hem=hematite; Spec=specularite; Mal=malachite
- High grade veins

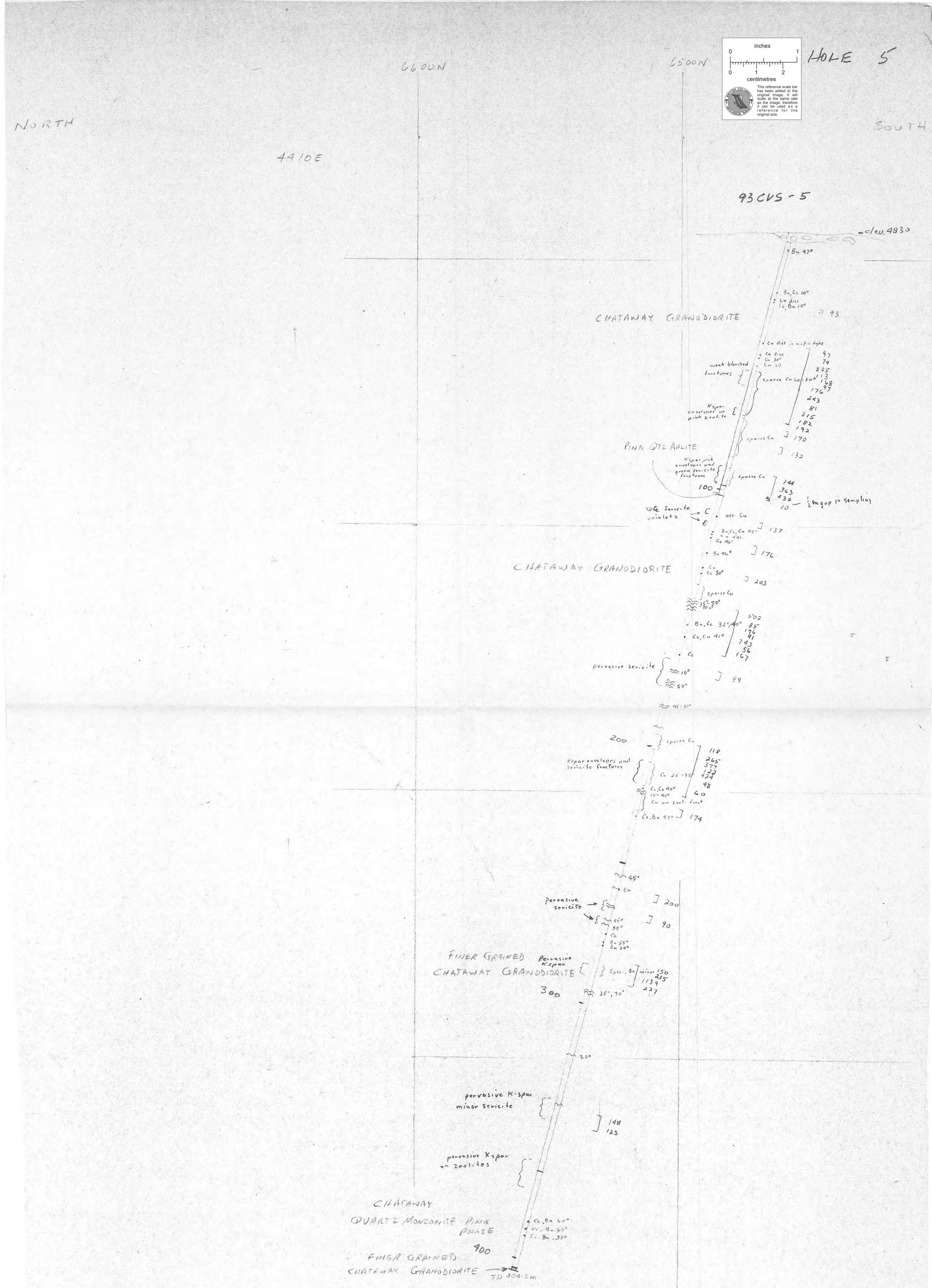
CVS-15
CVS-5
CVS-6
CVS-10
CVS-4
CVS-2
CVS-9
CVS-1
CVS-3
CV-9
CV-10
CV-11
645000E
650000E
5580000N
5575000N
Clear Cut
Clear cut
No outcrop
Chataway
Tie Line 30+00E
Base Line 50+00E
Dot L.
L28+00N
L26+00N
L24+00N
L22+00N
L20+00N
L 11+50N
L 4+50N
Gypsum Lake
Twin Lakes
Broom Creek
Farr Lake
TO MERRITT
Road access 4x4 or better
Overgrown cat trails
INDEX MAP
NORTH SHEET
SOUTH SHEET
inches
centimetres
This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.
HUDSON BAY EXPLORATION & DEVELOPMENT Co. LIMITED
CVS PROPERTY
KAMLOOPS & NICOLA MINING DIVISIONS, B.C.
NTS: 92 I/7
I.P. GRID
0 500 1000
Kilometres (1:10,000)
bY: P.E.W./rwr
DATE: AUG. 22,1993
FIGURE:


1500
LINE 58 N
WEST
3300E
34,00E
elev. 1489 m
EAST
93CVS-1
HOLE 1
ppm Cu Rc
271
119
73
76
513 Bh
50
Mal, Bn 15°
Mal, Bn 15°
60°
Rc
55
291
299
68
60
63
37
25°
30°
Mal, Cc 40°
62° Mal, Cc
significant pink K-spar envelope alteration 30-40°
100
Cu
Cu
Cu 37°
1400
225
88
Bh
Cu 18°
Cu 13°
50
75
170
153
95
233
229
129
132
116
61
73
85
54
Cu 13°
significant sericite fractures with pink K-spar envelope alteration 65-80°
Rc
Cu 12°
Cu 10°
Cu 55-60°
54°
Bh
Rc
150
Mal, Cc, Cu 10°
Cu
Cu 15°
Cu 15°
38
74
237
266
90
73
228
147
63
232
66
163
27
36
44
Cu, Cc
Cu 12°
Cu, Cc 10°
Cu, Cc 10°
Cu, Cc 10°
Bh
200
Cc, Cu 12°
25°
Cu - diss., hypogene
Cu 10°
Cu, diss.
1300
Rc
Bh
250
Mal, Cc
significant pink K-spar envelope alteration, accompanied by sericite on fractures.
Pink Granite-
Qtz Aplite
Mal, Cc 30°
Bh
Bn
Cp, Bn 40°
significant pink K-spar envelope alteration on qtz and sericite veinlet/fractures
Bn
20°
Bn
TD 288.3m
inches
0
1
0
1
2
centimetres
This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.



inches
centimetres
This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.
HOLE 2
HOLE 3
WEST
EAST
LINE 50 N
3100E
3200E
3300E
3400E
3500E
3600E
1400
1300
93CVS-2
93CVS-3
1481m
1457m
1" = 1,000
ROSCOE CREEK
CHATAWAY GRANODIORITE
BETHLEHEM (?) DYKE
FINE GRAINED BETHLEHEM GRANODIORITE (?)
BECOMES COARSER GRAINED
ROSCOE GRANODIORITE
HYBRID - CHATAWAY AND ROSCOE GRANODIORITE
HYBRID - ROSCOE GRANODIORITE
HYBRID - AND ROSCOE GRANODIORITE
BETHLEHEM GRANODIORITE
ROSCOE GRANODIORITE AND HYBRID PHASE
TD 274.5m
TD 279.8m


inches
0
1
0
1
2
centimetres
This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.
HOLE 4
WEST
EAST
LINE 70N
4400E
4500E
4600E
1500m
1500m
93 CVS-4
elev 1442
1400
1300
1200
1100
400
200
TD 410.'
PPM Cu
In the upper part of this hole most Cu is probably supergene, ~~here~~, but some disseminated Cu with mafics may be hypogene (eg 51.2).
Pervasive Dark green sericite 25-30° fractures
Mal
Cc
Cu
weak pink K-spar, pervasive (20-30%) sericite and chloritized mafics alteration
occ. specks Cu diss
Cu, trace Turquois
gd dyke
few occ. of specks Cu diss
Bn
weak K-spar pink envelope stockwork on Qtz-Ser fractures
Bn, Cc
weak K-spar pink envelope stockwork on Qtz-Sericite fractures
Bn 55°
Cc 30°
Cc, Bn 22°
Cc 25°
Cc 25° - specimen
Cc 27°
Cc, Bn 27°
Cc 30°
Cc, Bn 27°
Cc 28
K-spar Sericite altered
Bn 21°
Cc 37°
Bn, Cc 26°
Bn, Spec.
gd dyke
moderate K-spar alteration
Cc, Bn
Cc 45°
Cc 20°
Cc 20°
Cc 20°
91
120
93
68
107
40
77
100
78
65
75
283
528
321
306
407
597
518
465
341
286
332
334
300
325
193
390
77
45
375
294
131
175
352
159
290
235


inches
0
1
0
1
2
centimetres
This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.
HOLE 5
6600N
6500N
NORTH
SOUTH
4410E
93CVS-5
elev. 4830
Bn 47°
Bn, Cc 10°
Cu diss
Cc, Bn 10°
93
CHATAWAY GRANODIORITE
Cu diss in mafic dyke
Cu diss
Cu 30°
Cu 30
weak bleached fractures
sparse Cu 20-30°
Kspar envelopes on pink zeolite
sparse Cu
PINK QTZ APLITE
Kspar pink envelopes and green sericite fractures
sparse Cu
100
½m gap in sampling
qtz sericite veinlets
occ. Cu
Bn, Cc, Cu 45°
Cu diss.
Cc 46°
Bn 46°
CHATAWAY GRANODIORITE
Cu
Cc 30°
sparse Cu
35°, 50°
Mal
Bn, Cc 32°, 40°
Cc, Cu 42°
Cc
pervasive sericite
10°
50°
45-50°
200
sparse Cu
Kspar envelopes and sericite fractures
Cu 25-35
Cc, Cu 40°
10-40°
Cu on zeol. fract
Cc, Bn 47°
45°
Cu
pervasive sericite
55°
50°
Cc
Bn 55°
Bn 30°
FINER GRAINED CHATAWAY GRANODIORITE
Pervasive Kspar
Spec. Bn
minor
300
35°, 70°
20°
pervasive K-spar minor sericite
pervasive Kspar on zeolites
CHATAWAY QUARTZ MONZONITE - PINK PHASE
Cc, Bn 60°
Cc, Bn 60°
Cc, Bn 35°
400
FINER GRAINED CHATAWAY GRANODIORITE
TD 404.2m

FACING SOUTHEAST

HOLE 6

NORTHEAST (LINE OF SECTION 040° Az)

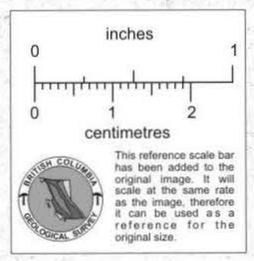
COLLAR GRID POINT 5483N, 3242E
ELEV. 1487.4m

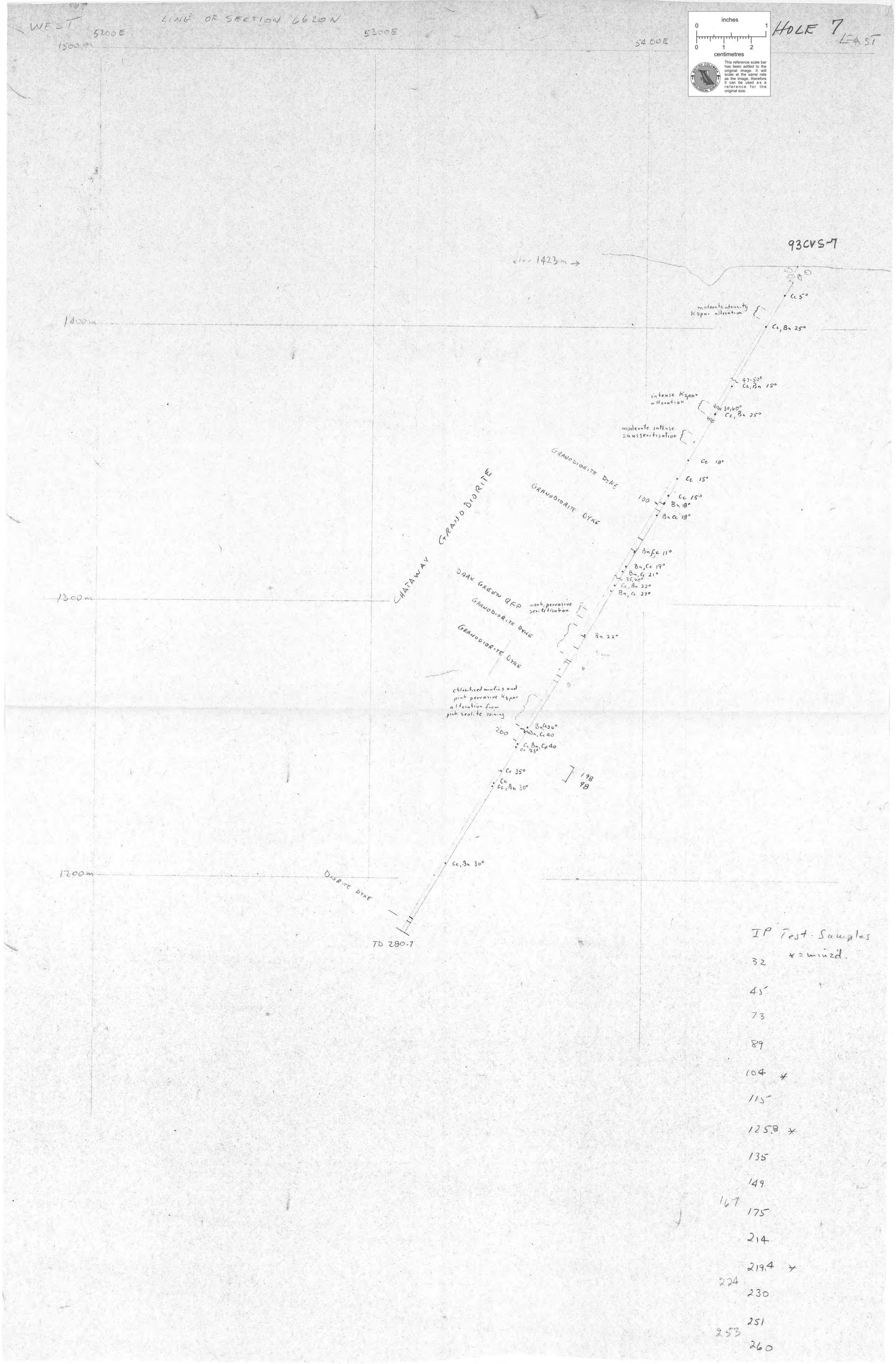
1500m — SOUTHWEST

93 CVS-6

elev in 1487.4

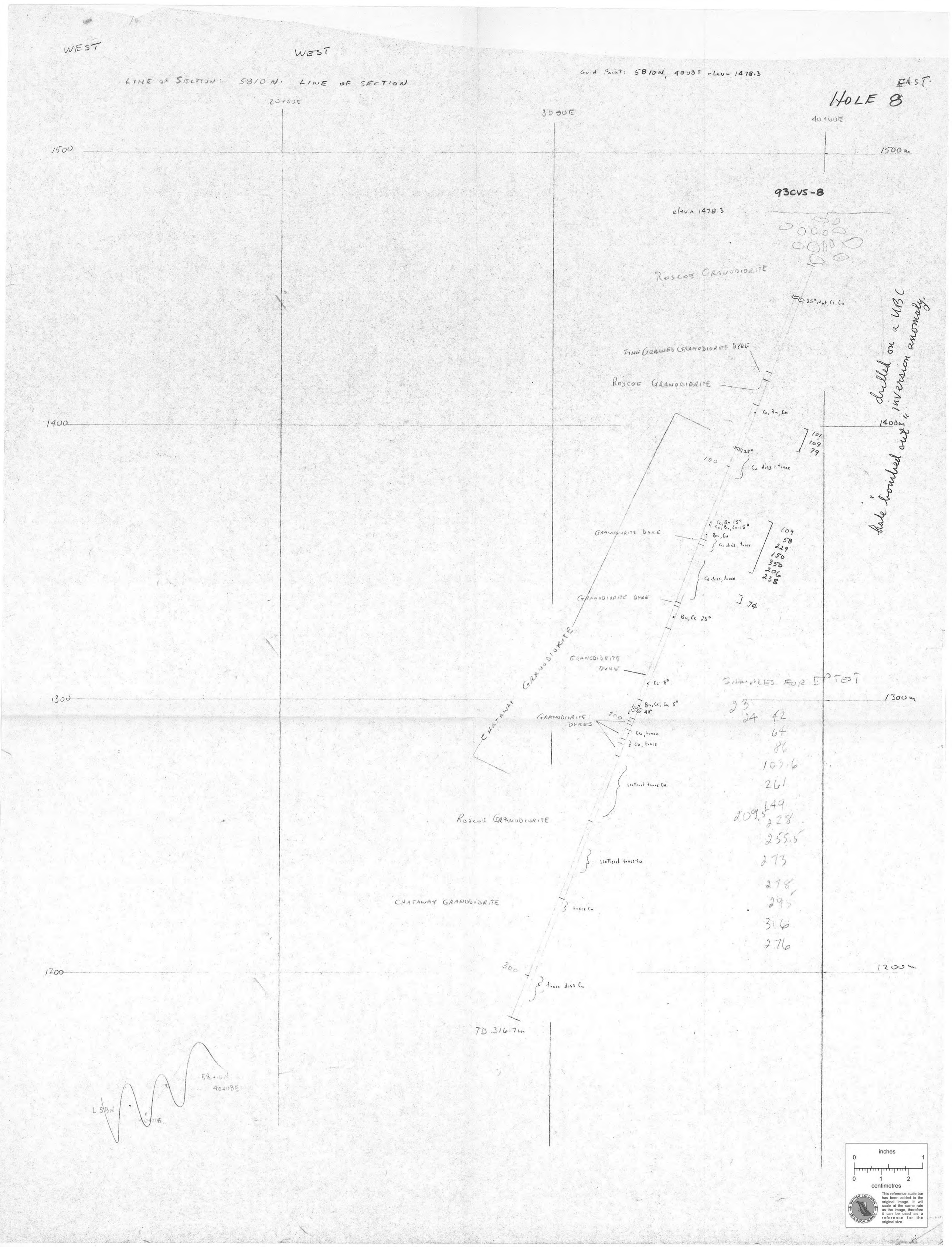
Rc
Bn, chrys, Mal
Cc, Mal
CW
Rc
Kspar pink alteration
60-70°
pink Zeolite with Kspar and sassenitized envelopes and pervasive local sericitization
Mal, chrys, Cc, Bn 70°
150
183
Bn, Mal 73°
Bn 72°
Cc, Bn 66°
CW
235
1981
9262
96
88
79
100
clay altered
Bn, Mal
Bn, Mal
1400m
109
55°
2Cc, Bn 80°
Cc, Bn 52°
Cc 62°
3Cc, Bn 64-76°
81
142
3110
978
94
43
169
911
1035
347
Ant's showing" veins
GREY GRANODIORITE DYKE
Cc 40°
Cc 81°
Cc 73°
Cc 225-65°
Cc, Bn 85°
Cc, Bn 82°
Cc, Bn 60°
Cc, Bn 61°
Cc Bn 60°
200
moderate intensity sericite and red hematite
123
63
143
196
276
69
1230
1007
146
147
168
100
76
Bn, Cc 55°
moderate intensity pink K-spar
Rc
1300m
Cc 75°
Cc, Bn 55°
Cc, Bn 80°
Cc 67
68
602
700
116
intermediate intensity pink K-spar, chloritized mafics and sericite fractures
Bn 56°
25°
Cc 43°
Bn 55°
Bn 55°
6Cc, Bn 45-65°
28
31
484
good min density
78
178
160
214
42
ROSCOE-GREY GRANODIORITE DYKE MIXTURE
5Cc, Bn 55-74°
Cc 50°
Bn 65°
Cc 47°
Cc 60°
300
intense pink Kspar
Cc 50°
1624
good min. density
228
55
254
Cp, Bn 55°
Cc, MoS2 55°
Cc 55°
Cc 50°
Cc, Bn 50°
Bn 70°
Bn 50°
Rc
local high grade
98
1918
276
265
392
ALTERED GRANODIORITE DYKE
ROSCOE GRANODIORITE
ALTERED GRANODIORITE DYKE
ALTERED ROSCOE GRANODIORITE
GRANODIORITE DYKE
pink Kspar and weak qtz-sericite vein alteration.
Cc 50°
Cc, Bn 85°
Cc 55°
Cc 50°
62
374
160
1200m
Rc
moderate pink Kspar
Cc 25°
Cc 85 78°
175
276
49
35
FINE GRAINED GRANODIORITE DYKE
Cc
intense pink Kspar
60-65°
Cc, Bn 75°
280
322
Cw
400
156
362
69
1277
23
22
TD 412.4m
138

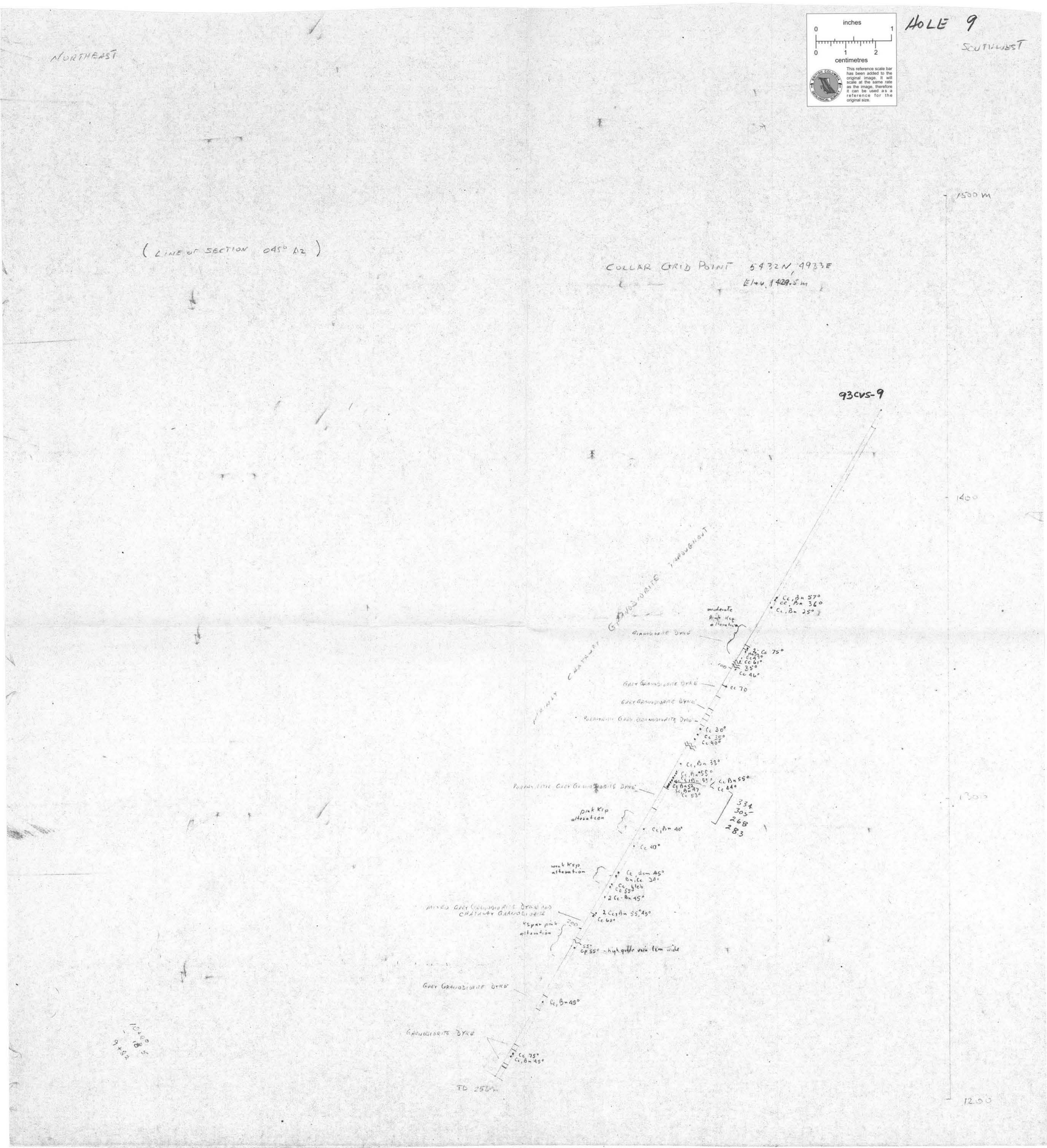




IP Test Samples
x = mineral.

32
45
73
89
104 x
115
125.8 x
135
149
167
175
214
219.4 x
224
230
251
253
260


WEST
WEST
LINE OF SECTION 5810 N. LINE OF SECTION
Grid Point: 5810N, 4008E elevn 1478.3
EAST
HOLE 8
20+00E
30+00E
40+00E
1500
1500m
93CVS-8
elevn 1478.3
ROSCOE GRANODIORITE
25° Mat, Cc, Cu
FINE GRAINED GRANODIORITE DYKE
ROSCOE GRANODIORITE
1400
1400m
Cc, Bn, Cu
101
109
79
25°
100
Cu diss - trace
GRANODIORITE DYKE
Cc, Bn 15°
Cc, Bn, Cu 15°
Bn, Cu
Cu diss. trace
109
58
229
156
350
206
238
Cu diss, trace
GRANODIORITE DYKE
74
Bn, Cc 25°
GRANODIORITE
GRANODIORITE DYKE
Cc 8°
SAMPLES FOR IP TEST
1300
1300m
Bn, Cc, Cu 5°
40°
CHATAWAY
GRANODIORITE DYKES
200
Cu, trace
Cu, trace
23
24
42
64
86
103.6
261
149
209.5
228
255.5
273
278
295
316
276
scattered trace Cu
ROSCOE GRANODIORITE
scattered trace Cu
CHATAWAY GRANODIORITE
trace Cu
1200
1200m
300
trace diss Cu
TD 316.7m
58+10N
4040BE
L 5810N
4000E
drilled on a UBC "inversion anomaly."
hole "bounced out"
inches
0
1
0
1
2
centimetres
This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.
BRITISH COLUMBIA GEOLOGICAL SURVEY


inches
0
1
0
1
2
centimetres
This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.
HOLE 9
NORTHEAST
SOUTHWEST
1500 m
(LINE OF SECTION 045° AZ)
COLLAR GRID POINT 5432N, 4933E
Elev. 1429.5 m
93CVS-9
1400
CHATHAM GRANODIORITE THROUGHOUT
FIRMLY
moderate pink ksp alteration
GRANODIORITE DYKE
Cc, Bn 57°
Cc, Bn 36°
Cc, Bn 25°
2 Cc 75°
Cc 70°
Cc 61°
35°
Cc 46°
100
GREY GRANODIORITE DYKE
Cc 70
GREY GRANODIORITE DYKE
PORPHYRITIC GREY GRANODIORITE DYKE
Cc 30°
Cc 35°
Cc 90°
Cc, Bn 33°
Cc, Bn 55°
Cc, Bn 55°
Cc, Bn 53°
Cc, Bn 47
Cc 53°
Cc, Bn 55°
Cc 44°
334
303
268
283
1300
PORPHYRITIC GREY GRANODIORITE DYKE
pink ksp alteration
Cc, Bn 40°
Cc 40°
weak ksp alteration
Cc, dem 45°
Bn, Cc 30°
Cc 55° bleb
2 Cc-Bn 45°
MIXED GREY GRANODIORITE DYKE AND CHATHAM GRANODIORITE
2 Cc, Bn 55, 45°
Cc 60°
200
ksp pink alteration
55°
CP 55° - high quartz vein 1cm wide
GREY GRANODIORITE DYKE
Cc, Bn 45°
GRANODIORITE DYKE
Cc 75°
Cc, Bn 45°
TD 256m
10+90
18.5
9+82
1200

HOLE 10

NORTHEAST

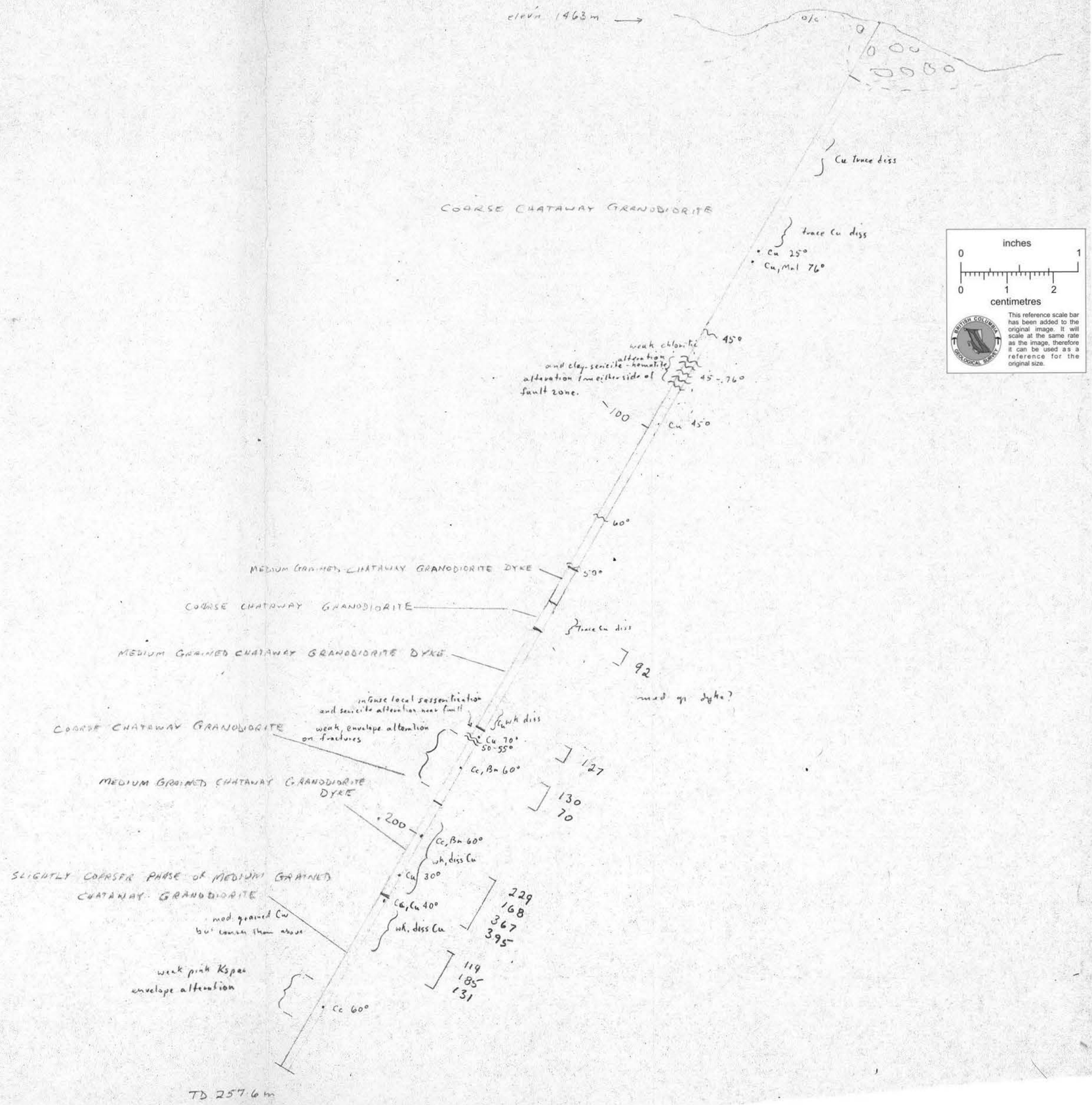
(LINE OF SECTION. 040°Az)

NORTHEAST

(LINE OF SECTION . 040° Az)

SOUTHWEST

93 CVS-10

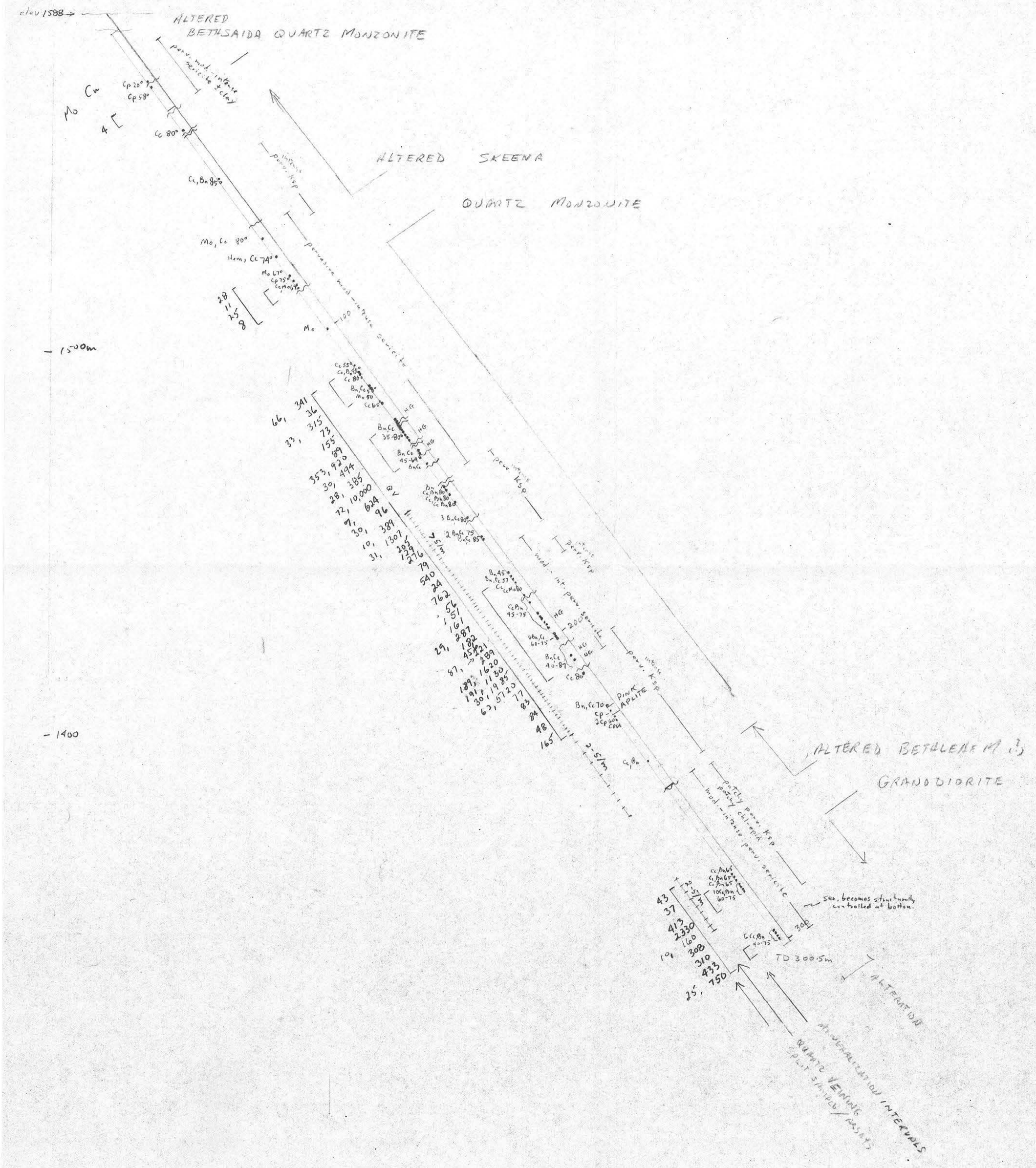


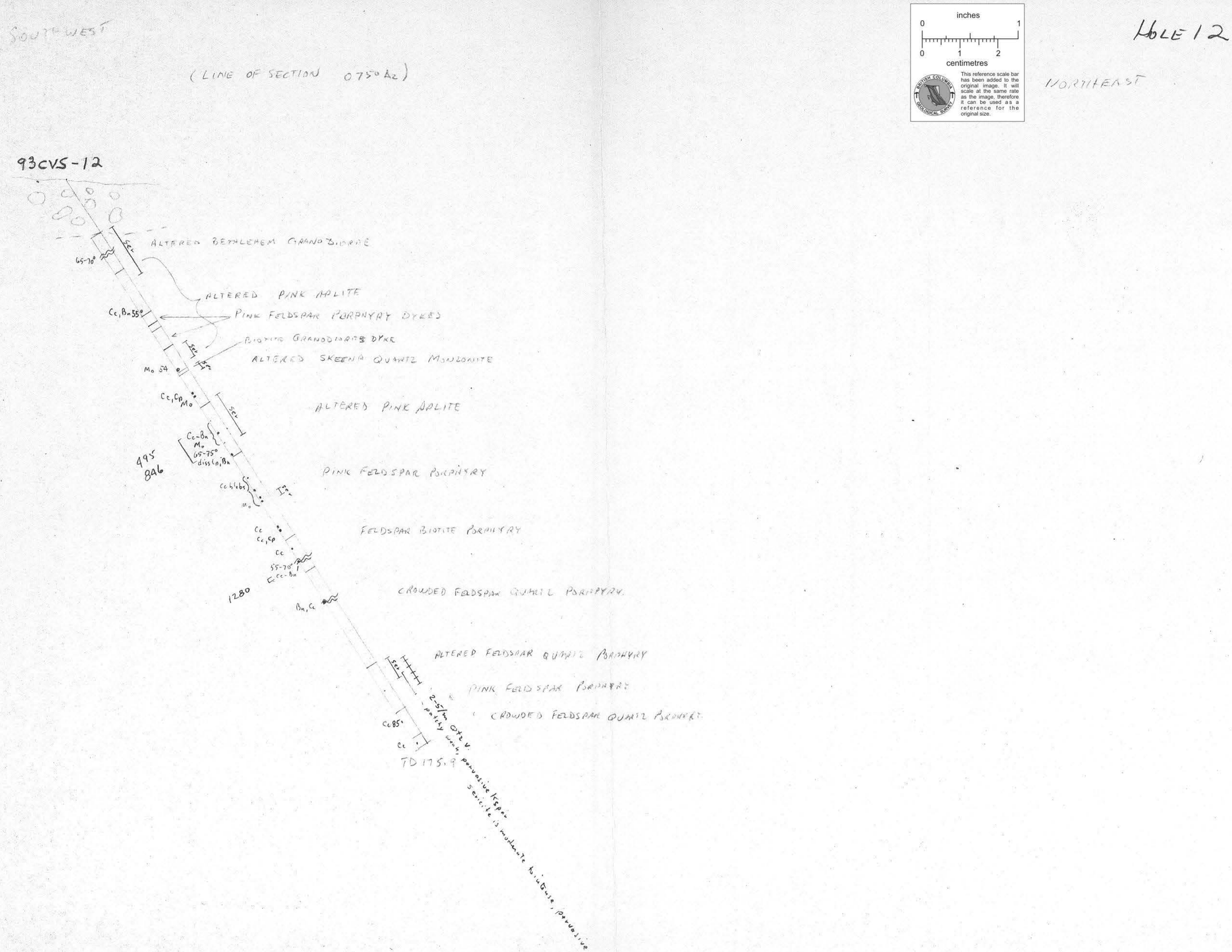
SOUTHWEST

(LINE OF SECTION 075° Az LOOKING NORTH)

HOLE 11

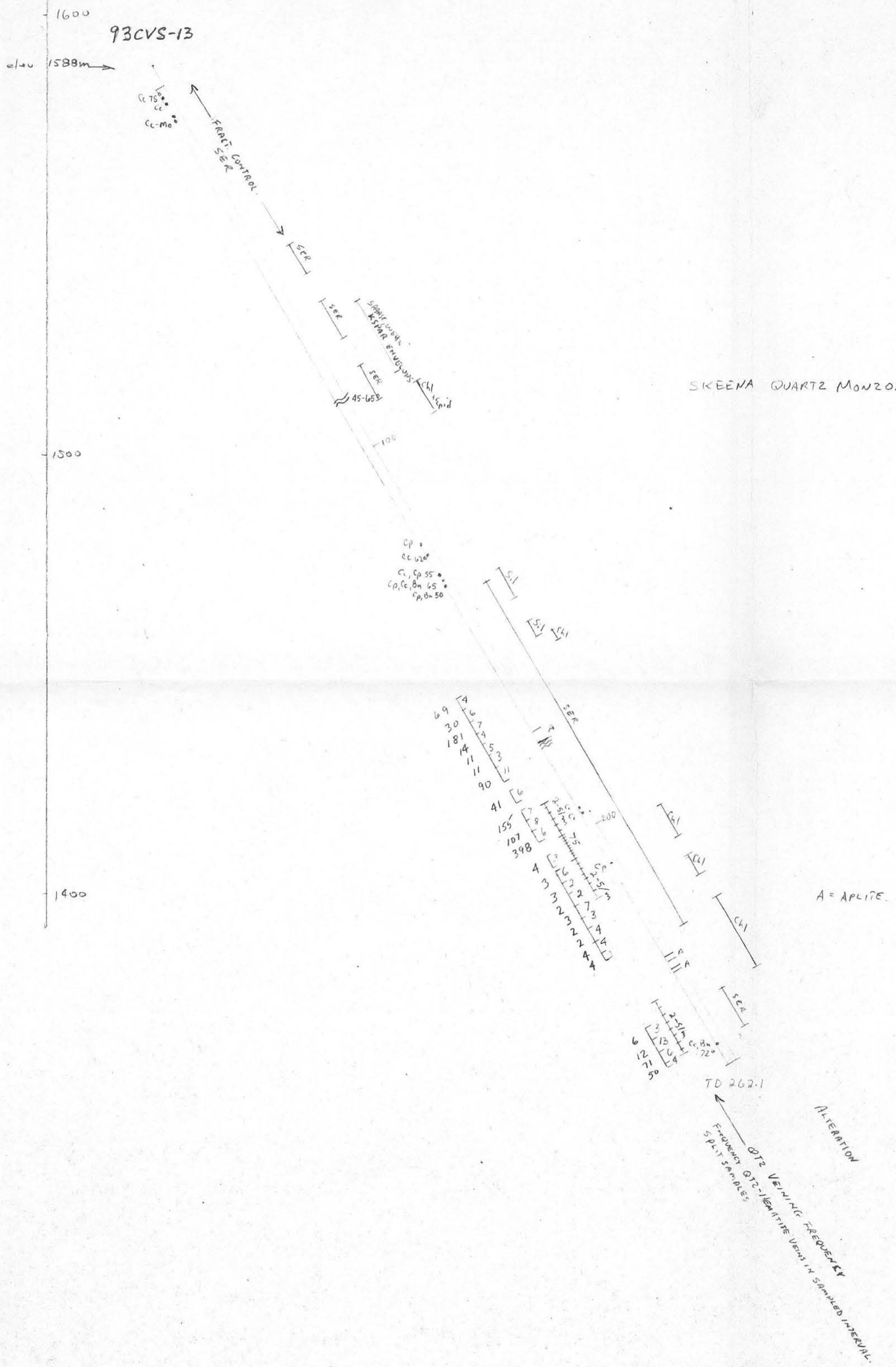
NORTHEAST




SOUTHWEST
(LINE OF SECTION 075° Az)
93CVS-12
ALTERED BETHLEHEM GRANODIORITE
ALTERED PINK APLITE
PINK FELDSPAR PORPHYRY DYKES
BIOTITE GRANODIORITE DYKE
ALTERED SKEENA QUARTZ MONZONITE
ALTERED PINK APLITE
PINK FELDSPAR PORPHYRY
FELDSPAR BIOTITE PORPHYRY
CROWDED FELDSPAR QUARTZ PORPHYRY
ALTERED FELDSPAR QUARTZ PORPHYRY
PINK FELDSPAR PORPHYRY
CROWDED FELDSPAR QUARTZ PORPHYRY
2-5/m Qtz V.
patchy weak, pervasive Kspar
sericite is moderate to intense, pervasive
TD 175.9
495
846
1280
Cc, Bn 55°
Mo 54
Cc, Cp, Mo
Cc-Bn
Mo
65-75°
diss Cp, Bn
Cc blebs
Mo
Cc
Cc, Cp
Cc
55-70°
Cc-Bn
Bn, Cc
Cc 85°
Cc
ser
inches
0
1
0
1
2
centimetres
This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.
BRITISH COLUMBIA GEOLOGICAL SURVEY
HOLE 12
NORTHEAST

SOUTHWEST

(LINE OF SECTION 075° Az - LOOKING NORTH)

NORTHEAST

HOLE 13