1994
GEOCHEMICAL AND TRENCHING REPORT ON THE PEN PROPERTY

Nicola, Osoyoos and Similkameen
Mining Division, B.C.

NTS: 92H/16E & 82E/13W
Lat 49°53'N; Long 120°04'W

June, 1995 (BC '94 ASSESSMENT)

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For

FAIRFIELD MINERALS LTD.
Vancouver, British Columbia

by

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Field Period: June 11 - September 21, 1994

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(In pockets)

1.0 SUMMARY AND CONCLUSIONS

The Pen property, located 42 kilometres west of Kelowna, B.C., originally comprised 37 claims (310 units) in the Nicola, Similkameen and Osoyoos Mining Divisions. During 1994, a total of 106 units were allowed to lapse, reducing the property size to 204 units in 34 remaining claims. The claims, staked in 1990 and 1991, are owned 100 percent by Fairfield Minerals Ltd. Ongoing exploration is focusing on gold-bearing structures in volcanic and intrusive rocks.

The Okanagan Connector highway (97C) passes near the northern claims and numerous logging roads traverse the property providing excellent access. Moderately steep-sided Pennask Mountain underlies much of the western property; to the east flatter terrain is cut by a steep canyon along Peachland Creek. Bedrock exposure is abundant at higher elevations and in creek canyons, but scarce on lower slopes.

Previous work in the area has included extensive exploration for copper-molybdenum in the late 1960's during development of the Brenda deposit immediately to the east. Fifteen kilometres to the west, on the Elk property, Fairfield has mined over 50,000 ounces of gold from a high-grade vein system in a similar geological setting to that on the Pen claims. A current reserve of 180,000 ounces gold at Elk remains open to expansion.

The Pen property is underlain predominantly by a large pendant of Triassic volcanics and sediments in contact to the east with a Jurassic granodiorite batholith and intruded, on the western claims, by a small dioritic stock of unknown age. Younger, porphyritic intrusions are also locally exposed. A considerable number of quartz vein occurrences have been discovered within various host rock units and small sulphide skarn pods have been found in metasedimentary rocks.

Grab samples from the widely scattered mineral showings have returned many significant gold values ranging from 0.03 to over 1.0 oz/ton. Observed quartz veins are generally narrow and irregular, with variable attitudes. Limonite and hematite are common constituents. Overall sulphide contents are low, however local concentrations of pyrite, pyrrhotite, chalcopyrite, molybdenite, arsenopyrite, galena, sphalerite and other minerals do occur.

Wide-spaced and fill-in soil sampling undertaken from 1990 to 1993 provided 4444 samples which were analyzed for gold, outlining four large areas of gold enrichment containing many sites with values greater than 50 ppb, up to a high of 590 ppb Au. Further sampling in 1994 essentially completed coarse grid (200m x 50m) coverage of the entire claim group, and fill-in was conducted within two of these areas. This work generated another 2085 soils, for a total to date of 6529. Eighty-five sites of anomalous gold, from 20 to 930 ppb, and an additional 150 sites with threshold values of 10-20 ppb were identified. These values have further defined and/or extended existing gold geochemical trends.

Soil anomaly evaluation and follow-up by prospecting included the collection of 25 rock geochemical samples which were tested for 30 elements. Ten of the samples yielded significant gold values in the range of 1070 ppb to 12700 ppb (0.37 oz/ton). These results indicate several new mineral occurrences, mainly within the central property (grid) area.

Late in the season, trenching was initiated on a priority showing near Brenda Lake (PEN 10 claim, central grid). This program was successful in locating a source for some of the high grade gold-quartz float found there during 1993. Diorite-hosted quartz veins having widths of 10 to 30 cm were exposed, from which chip samples returned gold assays of up to 1.4 oz/ton. Additional quartz float was found in the area, including one sample containing visible gold, about 150 metres from the main trench site.

Cumulative exploration results indicate that the widespread anomalous gold soil geochemistry is indeed reflecting an extensive distribution of significant mineral occurrences. Important gold and silver values occur principally within quartz ± sulphide veins or stockworks. A number of the sulphide-lean occurrences are hematitic and carry anomalous As± Bi± Mo± W associated with high gold grades. These characteristics suggest the presence of a gold porphyry system, distinct from that of the nearby Brenda Cu-Mo porphyry system.

Based on the foregoing, there remains very good potential to define economic high-grade gold veins and/or a large tonnage low-grade gold porphyry (stockwork)-type deposit on the Pen claims. Further exploration is definitely warranted.

2.0 RECOMMENDATIONS

Fill-in soil sampling at 50m by 50m should be continued around stations with values ≥ 20 ppb Au to better define anomalous trends. Approximately 2500 samples in total are required to complete this work in all areas of the property. However, first priority should be given to completion of such sampling around those anomalies which are located peripheral to the main known gold enrichment zone on the central (PEN 10 & 13) claims.

Detailed prospecting of gold anomalies should be continued and reconnaissance samples collected from any altered or mineralized rocks. The rock samples should be analyzed for gold (AA) plus 30 elements (ICP). Those with anomalous values should be fire assayed for gold and silver.

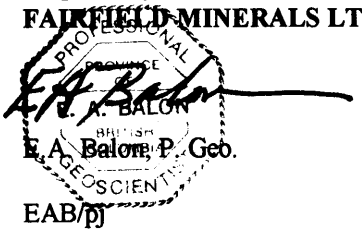
Preliminary cut-line grid control should be established and geological mapping should be conducted within the central property area (PEN 10 & 13, eastern parts of PEN 9 & 12, NW quadrant of PEN 14, PEN 16-17 and PEN 24-27 claims). Approximately 20 kilometres of cut lines are estimated.

The central property area described above should be surveyed by VLF-EM and magnetometer to locate possible major structures which may have localized gold mineralization.

Localities with mineral occurrences, anomalous gold geochemistry, coincident geophysical signatures and shallow overburden depth (<4m) should be trenched to bedrock with an excavator. Trenches should be cleaned, mapped and chip sampled. Samples should be tested for gold and other elements in the same manner as the reconnaissance rock samples.

Preliminary diamond drilling is recommended to obtain geological information and to test for continuity and grade of mineralization along trend(s) of the gold vein showings near Brenda Lake (Trench PE94-1 site). Approximately 150 metres (500 feet) of NQ core drilling in 4 holes is proposed. The core should be geologically logged and any altered or mineralized sections should be sampled, assayed for gold and silver, and tested for 30 elements by ICP. Further drilling would be contingent upon favourable results.

Respectfully submitted
FAIRFIELD MINERALS LTD.



E.A. Balon, P. Geo.
EAB/pj
June 1995

3.0 INTRODUCTION

3.1 Location and Physiography (Figures 1 and 2)

The Pen property is located 42 kilometres west of Kelowna in south-central British Columbia (Figure 1). It is centered on latitude 49°53'N and longitude 120°04'W within NTS map areas 92H/16E and 82E/13W. The Okanagan Connector Highway (97C) passes near the northern claims and a number of gravel logging roads and trails provide good access to most parts of the property.

The claims encompass approximately 50 square kilometres. Elevations range from 1995m at the peak of Pennask Mountain near the western claims to 1300m in the Trout Creek valley on the southeast claim. Slopes are moderately steep with some local, very steep, rocky bluffs and canyons, especially along the headwaters of Peachland Creek. A few small lakes and ponds occupy depressions in the mountainous terrain of the central claims. Streams flow east and north off Pennask Mountain; east and south off the eastern claims. Bedrock exposure is abundant at higher elevations on ridges and steep slopes but is scarce on gentler slopes below about 1500m elevation. Glacial till is more widespread on lower slopes, varying in depth from a few metres to over 10 metres. The area is densely forested with pine, spruce, balsam, and fir thinning to sparsely-treed sub-alpine meadows above about 1900m elevation. Clear-cut logged plots are located in all parts of the property, totalling about 15 percent of the area. Annual temperatures range from -20°C to 30°C and precipitation is moderate. The area is basically snow-free from late June through October.

3.2 Claim Data (Figure 2, Table 1)

During 1994 the PEN 1, 2, 4 claims (60 units) were allowed to lapse and an additional 46 units were cancelled by size reductions of the PEN 3, 5, 8, 11 claims.

The current status of all remaining Pen claims is indicated in Table 1 and their locations are shown on Figure 2. The claims, situated in the Nicola, Osoyoos and Similkameen Mining Divisions, were staked in August and September, 1990 and October, 1991 and are 100 percent owned by Fairfield Minerals Ltd.

3.3 History

Much of the Pen property east of Pennask Creek has been extensively explored for copper-molybdenum in the late 1960's during exploration and development of the Brenda deposit immediately to the east. Airborne magnetometer, soil geochemistry and IP survey results were reported from 1966 to 1969 in a number of assessment reports.

The Brenda copper-molybdenum deposit, one kilometre east of the Pen claim boundary, was mined by open pit from 1970 through 1990. It produced a total of 160 million tons grading 0.18% Cu, 0.05% Mo with minor silver and gold values.

Prospecting by Fairfield from 1986 to 1990 in the area subsequently staked as the Pen claims revealed gold mineralization in three localities, hosted by quartz veins or sulphide skarn pods. Grab samples returned values up to 0.18 oz/ton gold. Stream sediment samples gave anomalous values for Au, Ag, Cu, Zn, Mo and As.

In 1990, 1991 and 1993 wide-spaced grid soil sampling was conducted over the entire Pen property to test for areas of anomalous gold. Values up to 590 ppb Au were returned. Follow-up soil sampling on 50m by 50m grids was also undertaken around some of the numerous anomalous sites.

During 1991 through 1993 prospecting around anomalous soil sites led to discovery of many mineralized quartz vein or stockwork occurrences, from which grab samples yielded up to 35,800 ppb (~1.0 oz/ton) gold and 4 oz/ton silver.

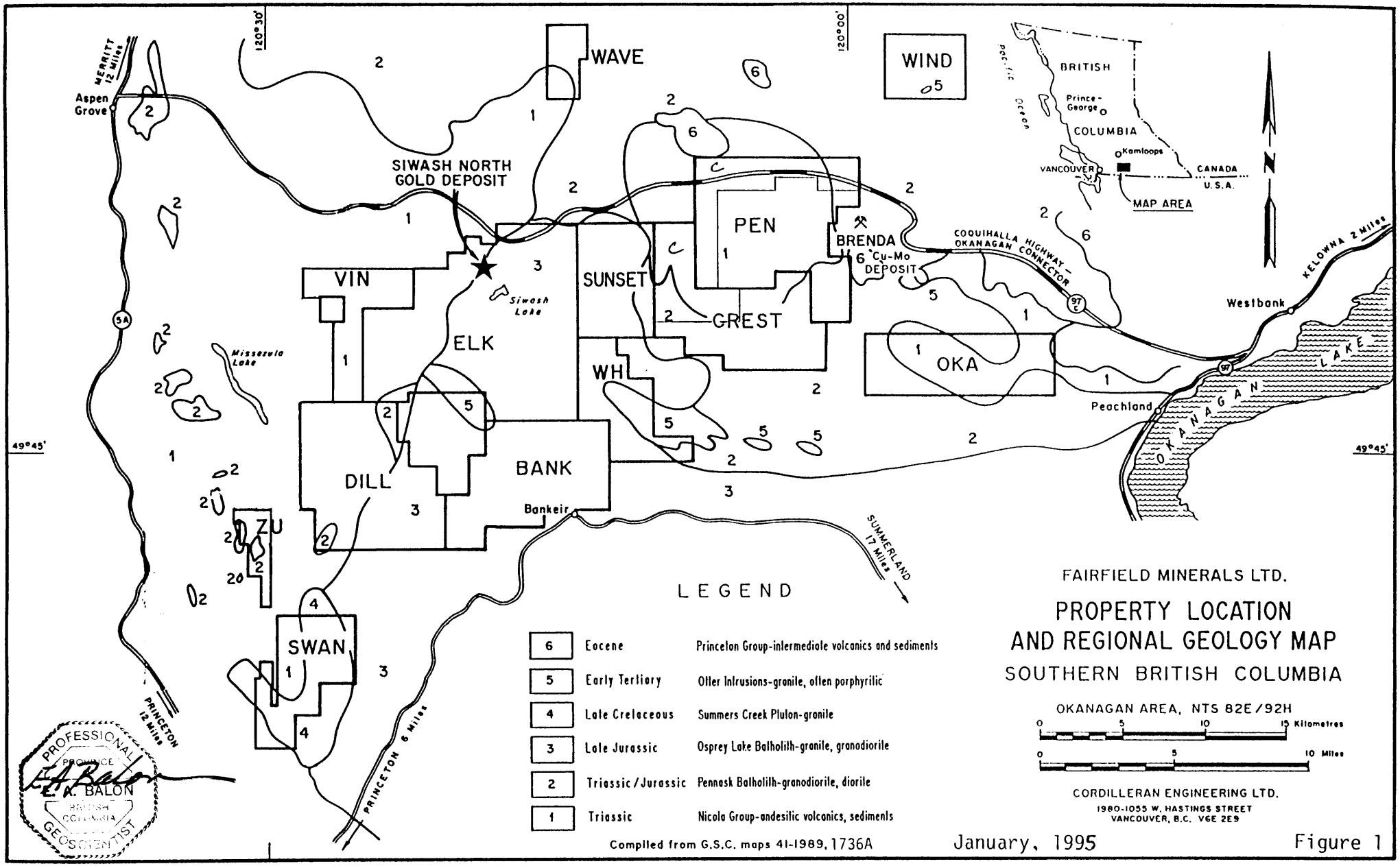
3.4 1994 Exploration Program

The 1994 program comprised 104 person-days of field work apportioned as to 70 for grid location and soil geochemistry, 29 for anomaly evaluation and follow-up, and 5 for trenching.

Grid soil sampling at 400m x 50m with subsequent infill sampling around anomalies, mainly at 50m x 50m, was carried out on the PEN 6-7, 9-10, 12-23 and 28-37 claims representing over 70% of the reduced property area. This work generated 2085 soil samples which were analyzed only for gold.

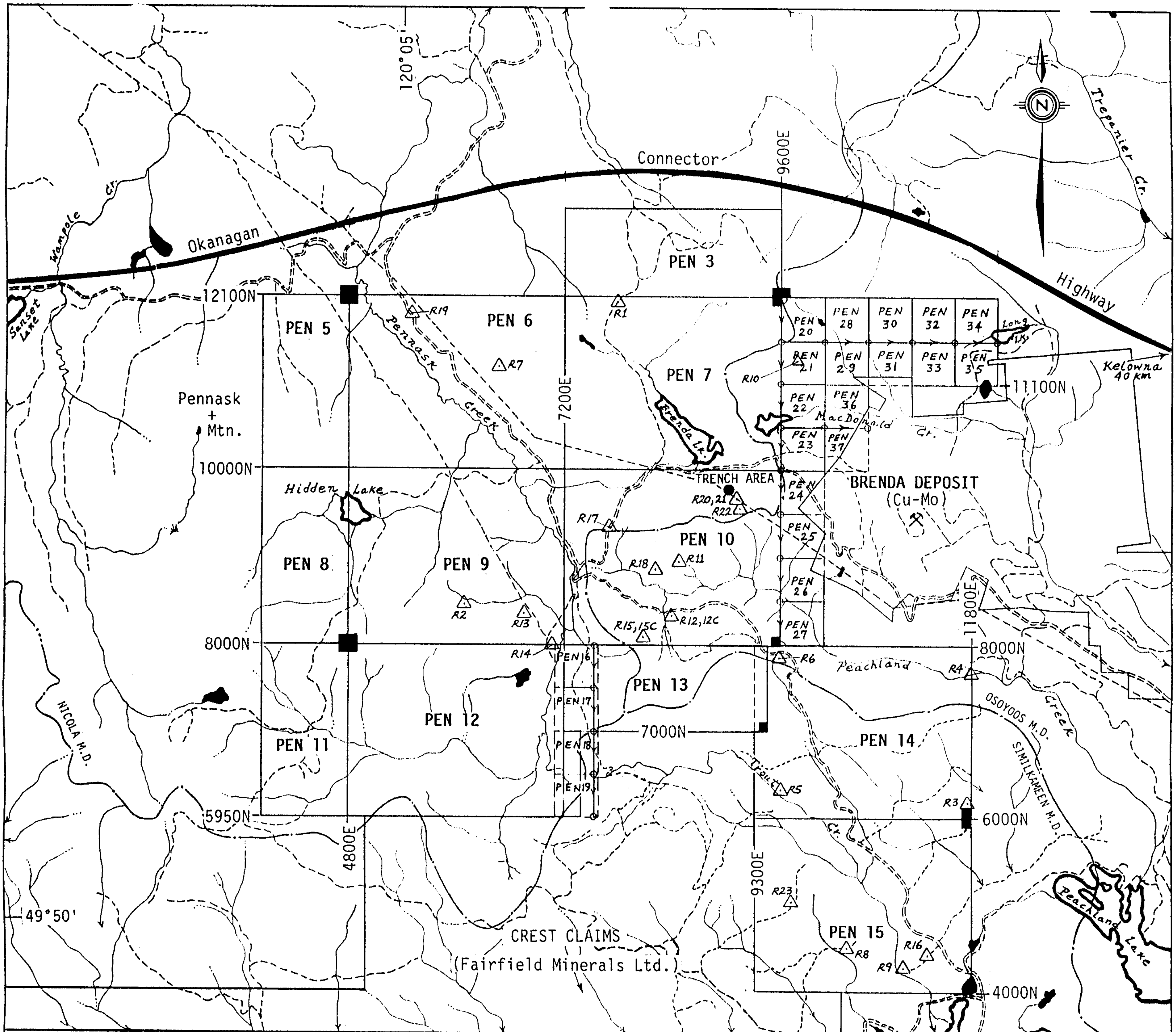
Evaluation of results and follow-up included earlier (pre-1994) data merger and research, prospecting and reconnaissance rock sampling in areas of anomalous gold soil geochemistry. Twenty-five rock samples were collected and tested for 30 elements.

Minor trenching was undertaken on the PEN 10 claim near Brenda Lake, in a locality where high-grade gold-bearing quartz float was found during 1993. Two trenches totalling 122m (400 ft.) in length were excavated, mapped, selectively cleaned and sampled. Twenty-one trench rock samples were collected; all were analyzed for 30 elements and selected ones were also fire assayed for gold.



January, 1995

Figure 1



PROFESSIONAL GEOSCIENTIST
PROVINCE OF BRITISH COLUMBIA
E. A. BALON

LEGEND

■	Legal Corner Post for 4-Post Mineral Claim(s)
o—>—o	Initial and/or Final Posts, Location Line Direction of 2-Post Mineral Claims
PEN 8	Claim Name
•——•	Mining Division Boundary
==---	Access Road, Trail or Powerline Right-of-Way
△ R5	Reconnaissance Rock Sample Site (PEN 94 Prefix Omitted From Sample Numbers)

FAIRFIELD MINERALS LTD.
PEN PROPERTY

CLAIM, GRID AND
RECONNAISSANCE SAMPLE LOCATIONS

Nicola, Osoyoos & Similkameen Mining Divisions
NTS: 92H/16E and 82E/13W, B.C.

Scale - 1:50,000

1000 0 1000 2000

Scale in Metres

By: Cordilleran Engineering Ltd.
Vancouver, B.C.

January, 1995

Figure 2

Table 1

CLAIM STATUS AS AT JANUARY, 1995

Pen Property - NTS: 92H/16E and 82E/13W

Claim	Units	Tenure No.	Expiry Date
PEN 3	10	237579	1 SEPT 1995
PEN 5	8	237581	29 AUG 1995
PEN 6	20	237582	31 AUG 1995
PEN 7	20	237583	1 SEPT 1995
PEN 8	8	237584	28 AUG 1995
PEN 9	20	237585	29 AUG 1995
PEN 10	20	237305	1 SEPT 1995
PEN 11	8	237586	31 AUG 1995
PEN 12	20	237587	31 AUG 1995
PEN 13	8	249890	31 AUG 1995
PEN 14	20	249891	2 SEPT 1995
PEN 15	20	249892	2 SEPT 1995
PEN 16	2-post	237588	3 SEPT 1998
PEN 17	2-post	237589	3 SEPT 1998
PEN 18	2-post	237590	3 SEPT 1997
PEN 19	2-post	237591	3 SEPT 1997
PEN 20	2-post	305864	11 OCT 1996
PEN 21	2-post	305865	11 OCT 1996
PEN 22	2-post	305968	11 OCT 1996
PEN 23	2-post	305899	11 OCT 1996
PEN 24	2-post	305900	11 OCT 1996
PEN 25	2-post	305901	11 OCT 1996
PEN 26	2-post	305902	11 OCT 1996
PEN 27	2-post	305903	11 OCT 1996
PEN 28	2-post	305904	11 OCT 1996
PEN 29	2-post	305905	11 OCT 1995
PEN 30	2-post	305906	11 OCT 1995
PEN 31	2-post	305907	11 OCT 1995
PEN 32	2-post	305908	11 OCT 1995
PEN 33	2-post	305909	11 OCT 1995
PEN 34	2-post	305910	11 OCT 1995
PEN 35	2-post	305911	11 OCT 1995
PEN 36	2-post	305912	11 OCT 1995
PEN 37	2-post	305913	11 OCT 1995
37 Claims	182 Units +22 2-post claims		

4.0 GEOLOGY

4.1 Regional Geology (Figure 1)

Regional geology in the area of the Pen property is shown on the northeast part of GSC Map 41-1989, Hope, by J.W.H. Monger, 1989 and the northwest part of GSC Map 1736A, Penticton, by D.J. Templeman-Kluit, 1989 which are condensed on Figure 1.

The claims are underlain predominantly by a large pendant consisting of volcanic and sedimentary rocks of the Upper Triassic Nicola Group. The northeast and southeast extensions of the property are underlain by granodiorite of the Late Triassic to Early Jurassic Pennask Batholith.

Nicola Group lithologies consist of andesitic to basaltic flows and tuffs interspersed with argillite, siltstone and limestone units. The batholith comprises white to grey, medium to fine grained granodiorite. Widespread silicification and bleaching of argillite and volcanic rocks is present near intrusive contacts.

Quartz veining is locally abundant, generally concentrated near the edges of the batholith. Porphyry style copper-molybdenum mineralization has been mined from intrusive rocks at the Brenda deposit near the east contact of the Nicola pendant, immediately east of the Pen property.

4.2 Property Geology and Mineralization

The geology of the Pennask Mountain area, which covers most of the Pen property, was mapped in 1987 by G.L. Dawson and G.E. Ray of the B.C. Ministry of Energy, Mines & Petroleum Resources at 1:25,000 scale. Their mapping subdivided the Nicola Group, which comprises the roof pendant underlying most of the property, into three northeast-striking Formations which young toward the northwest. The easternmost Formation consists of basaltic to dacitic tuffs, flows and sub-volcanics, commonly containing feldspar phenocrysts. The central unit consists predominantly of black argillite locally overlying thin sections of conglomerate, limestone and limy siltstone. The youngest rocks, to the west, are bedded to massive andesitic tuffs with minor interbedded argillite. A 1.5 km-long granodiorite stock of uncertain age intrudes the upper volcanic Formation in the northwest corner of the property, east of Pennask Mountain summit. Other, smaller intrusions (dykes/sills) of unknown age and various compositions are locally exposed in several areas of the claim group.

Geological observations have been made by Fairfield personnel in and around the present Pen property during reconnaissance prospecting and sampling conducted since 1986. Near the northern claims extensive bedrock has been exposed by construction of the recently completed Okanagan Connector Highway. This consists mostly of Nicola volcanic and sedimentary rocks cut, and altered, locally by felsic dykes up to several metres wide. North of the PEN 28-35 claims the highway crosses the batholith contact, exposing granodiorite in steep rock cuts. All rock types host local zones of strong fracturing accompanied by clay alteration, disseminated sulphides and, in some places, quartz±sulphide veins or stockworks. Sulphide mineralization is mainly pyrite with lesser pyrrhotite, chalcopyrite, molybdenite and sparse occurrences of galena, sphalerite, arsenopyrite and tetrahedrite(?) with gold and silver values. A grab sample of quartz collected in 1990 from a narrow vein cutting granodiorite in this area returned 6220 ppb (0.18 oz/ton) Au.

On the western Pen claims, near the contacts of a small granodiorite stock, small pods of massive sulphide skarn and narrow quartz-arsenopyrite-sphalerite veins have been found. Some of the grab samples returned gold values up to 3770 ppb (0.11 oz/ton) Au. Sulphide pods less than 1 metre in diameter consisting of pyrite, pyrrhotite and arsenopyrite are exposed in road banks along a rough trail which climbs southwesterly past Hidden Lake.

In the central property area at the headwaters of Peachland Creek, narrow quartz veins cut black argillite outcrop. Grab chips of quartz with disseminated pyrite and galena returned gold values up to 4920 ppb (0.14 oz/ton) with silver content of 31.2 ppm (0.9 oz/ton). Dark grey to black limestone is locally interbedded with the argillite, and this assemblage is intruded by small bodies of porphyritic granite. Further to the north, at the PEN 3/7 common claim boundary, significant gold-bearing limonitic and hematitic quartz float has been found in similar terrane (e.g. Sample PEN 91-R30/5950 ppb Au, 15.1 ppm Ag).

Near Brenda Lake, on the PEN 10 claim, limonitic quartz rubble indicating veins up to 30 centimetres in width was found during 1993. Samples of this material yielded gold values up to 35,800 ppb (assay - 0.912 oz/ton) and highly anomalous bismuth to 441 ppm. Preliminary trenching along this same site in 1994 revealed in situ quartz veins hosted in diorite cut by feldspar porphyry dykes. Continuous chip samples from one of the veins, having an estimated true thickness of at least 15 centimetres, returned gold assays to 1.4 oz/ton with associated anomalous bismuth (131 ppm) and tungsten (250 ppm). Angular quartz fragments near exposed altered volcanic bedrock were also located about 150 metres to the southeast of the trench area (see Plate 2). A grab sample from this occurrence (PEN 94-R22) containing visible gold and probable bismuthinite yielded analyses of 12,700 ppb Au and 1,054 ppm Bi.

Within the PEN 13 claim and on an adjoining Crest claim a number of quartz veins and stockworks have been found cutting argillite and siliceous volcanic rocks. The quartz is glassy grey to white or rosy with generally sparse disseminated pyrite and minor fine black grains, possibly specular hematite. Veins located to date appear to be irregular and discontinuous, with various orientations and gentle to steep dips. Some of the larger ones are pegmatitic, containing coarse intergrown micas and feldspar. Grab samples have returned gold values up to 4280 ppb (0.12 oz/ton). A similar sample of hematitic quartz chips from overburden 600 metres to the south, on the Crest property, returned assays of 8.534 oz/ton Au, 35.72 oz/ton Ag (Sample C90-R13, 1990).

The style and distribution of mineral showings found to date in the central Pen and adjacent Crest claims suggest the presence of a substantial mineralized system. A number of significant gold grades have been returned from samples of sulphide-lean quartz veins or stockworks. These occurrences contain hematite and/or strongly anomalous Bi±W±As±Mo coincident with high gold values. Such vein mineralogy and elemental associations are characteristics of gold porphyry-type deposits, as recently described in published literature (Hollister, 1991-92).

The overall geological environment at Pen/Crest is similar to that on Fairfield's Elk property, 15 km to the west. At Elk, high-grade gold-quartz vein structures are hosted by intrusive and adjacent Nicola volcanic rocks. Although most of the known veins at Elk contain abundant sulphides (mainly as pyrite), extensive ore sample results from the Siwash Gold Mine there also show a significant gold-bismuth correlation.

5.0 GEOCHEMISTRY

5.1 Introduction

A total of 2,085 soil samples were collected from the Pen property in 1994. Initial sampling, predominantly at 400m by 50m grid spacings, yielded 1470 samples. Most of the sample lines were established between existing (1991, 1993) 400m-spaced lines, resulting in completion of 200m by 50m coverage over nearly the entire claim group. Subsequent infill sampling, mostly at 50m by 50m surrounding selected anomalous gold sites, produced an additional 615 samples. This number includes 8 duplicate station samples and 6 close-spaced samples along a short, irregular soil line (PRSL94-1, Plate 1). The infill sampling involved both 1994 and pre-1994 anomalies.

5.2 Sampling/Analytical Procedures

East-west claim lines served as baselines. They were measured with hip chain, marked with pink flagging and at 50m stations marked with grid-numbered waterproof Tyvek tags plus pink and blue flagging. North-south soil lines were established at 400 or 200 metre spacings, using hip chain and compass, and the soil stations at 50m intervals were similarly identified with tags plus orange and blue flagging, Infill sample locations were determined by chaining out from original anomalous sample sites, and marked in a similar manner. Samples were collected from the "B" horizon with mattocks and placed in Kraft paper bags marked with the appropriate grid coordinates. The soils were sent to Acme Analytical Laboratories Ltd. in Vancouver where they were dried, sieved and the -80 mesh fraction tested for gold content. Each sample was analyzed for gold by atomic absorption (AA) following aqua regia digestion and MIBK extraction from a 10-gram subsample.

The rock samples had an average weight of 1 to 2 kilograms with chips ranging from 1 to 7 cm in diameter. They were also shipped to Acme Analytical Laboratories Ltd. in Vancouver where they were each crushed to minus 3/16 inch then 250 grams split out and pulverized to minus 100 mesh. All were analyzed for gold from 20-gram subsamples, by the same method as that used for the soils. Additionally, 30-element ICP determinations were made from 0.5-gram cuts.

5.3 Soil Results (Plate 1)

Integrated 1994 and prior (1990-91/93) gold soil geochemical results are plotted on Plate 1. The geochemical grid location relative to claim boundaries is shown on Figure 2. Complete 1994 analyses from all samples are contained in Section 11.0.

Increasing symbol sizes on Plate 1 correspond to values <10, >10, >20, >50 and >100 ppb Au. Values greater than 20 ppb Au are considered significant anomalies; those less that 10 ppb Au are not posted as they are probably below threshold.

The 1994 sampling identified 85 sites of anomalous gold, up to 930 ppb, and about 150 sites with threshold values of 10-20 ppb Au. These sites are widely distributed throughout the claim group and further define or expand areas of gold enrichment outlined by previous programs.

In the northern grid area a sinuous easterly trending belt of gold enrichment extends from 5400E/11500N to 10800E/11350N - 11600N, through the PEN 5-7, 20-21 and 28-31 claims. There is good cross-line correlation of anomalous or threshold values, however the general trend is locally broken between lines 6200E and 10000E. Subsidiary but more distinct ENE to ESE linears of elevated gold within the belt are enhanced by several 1994 sample results up to 770 ppb Au. Fill-in sampling remains to be conducted around all anomalies on the northern grid.

On the western part of the grid (west half PEN 9 & 12 claims), scattered clusters of gold anomalies occur as follows:

1) around Hidden Lake, between 4800E - 6000E and 8800N - 9950N;
2) two to three kilometres SE of Hidden Lake, between 5400E - 6400E and 6600N - 8000N.

Only initial (wide-spaced) 1994 sampling was carried out in these areas. The results include seven high values in the range of 59 - 790 ppb Au. Additional lower order anomalies were also located, notably along Line 5600 E. Infill sampling is required in both areas to delineate specific trends.

The central grid includes the area referred to as East grid in 1993. Here, a wide belt of prominent gold enrichment extends through the PEN 10 & 13 claims and continues southerly onto Fairfield's Crest property. Within Pen, this belt is situated between 7800E - 9400E from 7000N - 9800N. Several other gold anomalies occur to the west and east of the belt, between Lines 6600E - 7000E and northern 9600E - 10800E. Infill sampling during 1994 extended most of the anomalies tested, thus enhancing several strong gold trends that apparently cut across a general northerly zone trend. The many anomalous results include seven values of greater that 100 ppb Au, up to 760 ppb Au. Additional fill-in sampling is required to determine continuity of trends.

In the south-eastern grid area gold anomalies are dispersed throughout the PEN 14 & 15 claims, but most of the stronger ones are located on the western part between lines 9600E and 10800E. Initial 1994 sampling generated one high value of 140 ppb Au at the eastern claim/grid boundary, on Line 11800E, and several lower order anomalies along Line 10600E, between 4200N - 6650N. Minor infill sampling extended the few anomalies tested and yielded three very strong results of 140, 240 and 930 ppb Au. Cumulative results to date indicate northeast to east trending highs cutting across a vague NNW-trending belt of anomalies on the 200m-spaced lines. More infill sampling is required.

5.4 Anomaly Evaluation and Follow-up (Figure 2 and Table 2)

Prospecting was conducted arround selected gold soil anomalies throughout the claim group, but with emphasis on those in the central grid area. Twenty-five reconnaissance rock samples were collected; their locations are shown on Figure 2. Sample types and descriptions together with collated gold, silver, copper, lead and zinc results are given in Table 2. Complete analyses for all 30 elements tested are included in Section 11.0.

Most of the rock samples contained quartz vein material, with sulphide contents ranging from abundant to very little or none visible. Ten returned gold analyses greater than 1000 ppb, up to 12700 ppb (0.37 oz/ton). Of these, seven were from the central grid area, two from the south-eastern grid and one from the northern grid. Coincident high or anomalous values of other elements in these (ten) samples include Ag in six, Cu in two, Pb in two, Zn in one and As± Bi± Mo± W in nine. The significance of this latter association in various gold occurrences found to date on the Pen & Crest claims has been explained under Section 4.2.

Sites of quartz float which yielded the highest gold grades - R20 (7780 ppb Au) and R22 (12700 ppb Au) - are located near in situ vein mineralization exposed by trenching and discussed in the following Section 6.0. It is notable here however, that these showings occur in an area of overall weak, sparse gold soil geochemical expression (see Plates 1 & 2; also Ref. 1993 Geochemical Report on the Pen Property, Figure 6). Thus, numerous other low order soil anomalies or sites with only threshold values (10 - 20 ppb Au) elsewhere on the property warrant careful evaluation.

No mineralized float or bedrock were found in the vicinity of four very strong soil anomalies that were examined during 1994. These are: 5600E/9900N - 790 ppb Au, 6400E/11050N - 770 ppb Au, 6650E/8400N - 220 ppb au, 7050E/7800N - 760 ppb Au. Duplicate soil samples taken at each of the original stations failed to confirm any of these anomalies, consequently their validity is questionable.

TABLE 2:

RECONNAISSANCE ROCK SAMPLES
PEN PROPERTY

Sample Number	Approximate Grid Location	Type and Description	Analyses: (Au-ppb,others-ppm) Au	Ag	Cu	Pb	Zn
PEN 94-R1	11925N/7985E	Float grabs. Limonitic and hematitic qz vn fgmnts, up to 5x8x10cm. Tiny, drusy vugs	1530	3.6	24	51	27
PEN 94-R2	8460N/6000E	Bedrock rubble grabs. 1-3 cm wide qz vns in arg host. Hematitic, locally drusy, glassy and granular-textured qz.	25	<0.1	11	11	19
PEN 94-R3	6170-75N/11790-800E	Float grab. Single, subrounded qz cobble 10-12 cm thick x 20 cm long. White, opaque qz w/lim+hem blebs & streaks	18	0.5	9	71	75
PEN 94-R4	7640N/11800E	Float grab. Subangular qz vn fgmnt 7.5x9x11cm. Yellow-white, opaque, chalcedonic qz w/drusy vugs & sparse lim or Fe carb.	25	0.1	5	12	6
PEN94-R5	6270N/9585E	Float grab. Angular fgmnt alt'd Volc(?) w/py-hem-chlorite stringers	12	0.5	27	11	25
PEN 94-R6	7765N/9525E	Slected outcrop chips. Rusty red and yellow-orange weathered, bleached, silic volcs w/irregular qz-py vlts & clots. Minor dissem Pbs, Mn staining.	2620	5.3	68	958	112
PEN 94-R7	11250N/6420E	Outcrop; 0.5m continuous chip across silic-alt'd volcs(?) w/2-4cm wide qz vns, masses carrying minor lim & py.	48	0.5	17	8	76
PEN 94-R8	4470N/10355E	Float grab. Subangular qz fgmnt 7.5x11.5x14.5cm. Orange-brown stained opaque qz w/dissem py & silvery-gy min.	3590	8.8	17	26	8
PEN 94-R9	4245N/10865-75E	Float grabs. Tabular and sub-rounder qz-flooded granitc fgmnts. V. rusty-weathered w/abund lim cavities, dissem py-cp.	2400 (Average of two runs/original and re-analysis	42.0	604	12	12
PEN 94-R10	11425N/9800E	Float grab. Chips from angular qz vn fgmnts up to 7cm thick x 20cm long. White opaque qz w/few lim+hem cavities, fracs.	49	0.3	12	7	4

TABLE 2: (cont'd)

RECONNAISSANCE ROCK SAMPLES
PEN PROPERTY

Sample Number	Approximate Grid Location	Type and Description	Analyses:(Au-ppb,others-ppm) Au	Ag	Cu	Pb	Zn
PEN 94-R11	8950-55N/8405-10E	Selcted bedrock rubble chips. Silic and hem-alt'd volcs w/irregular qz vlts and masses up to 2cm wide. Sparse dissem py.	15	0.3	15	7	21
PEN 94-R12	8220N/8370E	Selected bedrock chips. Rusty weathered,silic, bleached rhyolitic rock w/dissem py and qz-py vlts.	145 (Average of two runs / original and re-analysis)	1.0	18	223	110
PEN94-R12C	8220N/8370E (Same as R12)	Subcrop; 0.6m continuous chip across narrow E-trending, steeply S-dipping shear in same rock type as R12	58	0.8	15	136	83
PEN94-R13	8430N/6600E	Bedrock rubble grabs. Volcs w/1-2cm wide, glassy qz vlts carrying sparse py, lim and intergrown mica.	3	0.1	26	<2	29
PEN94-R14	7800N/7045E	Float grab. Chips from large, angular fgmnt skarny volc w/fine-gr py on frac sfcs and irregular qz vlts & masses	5	<0.1	29	2	47
PEN94-R15	8100N/8155E	Selected grab, broken bedrock. Silic, bleached volc 1/<1-2cm wide qz vns, lim boxworks.	2430	1.3	50	11	6
PEN94-R15C	8100N/8150E	Outcrop; 1.25m continuous chip across silic volc w/dissem py and qz vlts, masses.	1160	0.7	81	11	12
PEN94-R16	4460-70N/11225-255E	Float, slected grabs. Tabular to subrounded qz vn fgmnts, up to 3.5x7x10cm. Limonitic, glassy to white opaque qz.	35	1.0	7	7	3
PEN94-R17	9340N/7800E	Float grab. Single, angular piece silica-flooded arg(?) w/submassive py-cp and malachite stain.	1070	18.7	27548	121	410
PEN94-R18	8880N/8310E	Outcrop; slected grabs. Silic volcs w/narrow irregular qz vns+masses up to 8cm wide. White and rosy, glassy to sugary textured qz w/mica, minor py.	61	0.6	17	6	9

TABLE 2: (cont'd)

RECONNAISSANCE ROCK SAMPLES
PEN PROPERTY

Sample Number	Approximate Grid Location	Type and Description	Analyses:(Au-ppb,others-ppm) Au	Ag	Cu	Pb	Zn
PEN94-R19	11835N/5445E	Float grab. Tabular qz vn fgmnt 11x14x16cm. Rusty fracs, no visible sulphides	10 (Average of two runs/original and re-analysis)	0.1	11	2	8
PEN94-R20	9670N/9095E (See also Plate 2)	Float grab. Tabular qz vn fgmnt ~ 10x14x18cm. Very rusty-fractured w/abund lim cavities (boxworks); minor py.	7780	0.6	75	<2	6
PEN94-R21	9660N/9095E (See also Plate 2)	Grab. Limonitic qz vn float, 13.5cm thick x 19cm long. Glassy qz w/drusy cavities	1490	0.1	31	<2	2
PEN94-R22	9545N/9105E	Selected grabs. Small pieces angular, limonitic qz vn float w/visible gold & silvery-gy metallics.	12700	8.0	34	76	6
PEN94-R23	5010N/9795E	Float grab. Silic, bleached, hematitic volc(?) w/dissem py.	77	0.5	21	2	31

****

6.0 TRENCHING (Plate 2)

6.1 Introduction

During late August - early September, limited trenching was undertaken in one area of the Pen claims near Brenda Lake. This program was successful in locating a source for some of the high grade gold-quartz float found there by prospecting in 1993 and earlier 1994.

Two trenches totalling 122m (400 ft.) were dug. Exposed bedrock is diorite cut by a few shears, feldspar porphyry dykes and two major quartz veins. Alteration varies from fresh through propylitic, argillic, and local phyllic. Gold values up to 1.375 oz/ton were returned from sampling the quartz veins.

6.2 Trench Operations

Two trenches were excavated on the PEN 10 claim (see Figure 2) using a Caterpillar 225 excavator. The trenches were located along the Brenda powerline road for ease of access and to limit environmental impact. Backfilling was not carried out due to early deep snowfall. Bedrock was reached in both trenches although irregular rock surfaces occasionally slowed progress. Trench depths varied between 0.1 and 1.5 metres, averaging about 0.3 metres. The rate of trenching averaged 25 metres per hour. Trench statistics are summarized in Table 3.

Two types of quick-detachable buckets were used on the machine: a thirty-six inch toothed bucket for digging through overburden and a smooth bucket for cleaning to bedrock. A Sullair 180 CFM air compressor and firehose were used to clean the remaining soil from trench floors, and a Honda pump was used to dewater and wash sections of the trenches.

Bedrock geology was initially mapped in detail at 1:50 scale and subsequently compiled at 1:250 scale (Plate 2). Nineteen continuous chip samples and two grab samples were collected from areas of alteration, mineralization or favourable structures. Sampling was done manually. Sample locations and significant results are shown on the trench plan map (Plate 2). Individual sample descriptions, dimensions and partial results are presented in Table 4. Complete analytical and assay results are contained in Section 11.0.

The trenches were surveyed using a Brunton compass and a 50-metre steel chain, and tied into the local soil geochemical grid.

Table 3:

TRENCH SUMMARY

Trench Number	Length (m)	Width Top	Width Bottom	Average Depth	Estimated Volume (m^3)	Number of Samples Analysis	Number of Samples Assay
PE94-1	98.5	3.75	3.25	0.3	96.0	6	9
PE94-2	23.7	3.00	2.50	0.3	19.6	6	
Total	**122.2**				**115.6**	**12**	**9**

6.3 Trench Results

Trench PE94-1 (98.5 metres) is underlain by medium-fine grained to locally coarse grained grey diorite with occasional clots of acicular hornblende. The diorite is locally altered, showing a full range of alterations. Two very fine grained brownish-grey feldspar porphyry dykes are present.

A quartz vein approximately 25 to 30 cm thick was intersected between 10m and 15m along the trench. The vein appears to have an orientation of between 060/10N and 030/30W, but readings were difficult to obtain. The footwall and hangingwall diorite show argillic to phyllic alteration with disseminated pyrite, and contain several 1cm quartz stringers. The vein is moderately limonite-stained with very low sulphide content. Sampling of the vein returned gold values of 0.004 oz/ton to 1.375 oz/ton (average of two runs), 249 ppm tungsten and 130 ppm bismuth. A nearly grab of quartz vein material returned 0.152 oz/ton gold and 14 ppm bismuth.

At 23m to 25m, a second quartz vein about 15cm thick was uncovered. This vein trends about 145/30E and is hosted by weakly propylitized medium-coarse grained diorite with clumps of hornblende needles and trace disseminated pyrite. The vein is moderately limonite-stained but also has a very low sulphide content. Chip sampling of vein material returned assays up to 0.030 oz/ton gold and 60 ppm tungsten; a nearby grab sample assayed 0.362 oz/ton gold, 135 ppm tungsten and 47 ppm bismuth.

Trench PE94-2 (23.7 metres) is underlain by fine grained grey diorite and dark grey feldspar porphyry cut by several shears with strong argillic-altered envelopes. Traces of disseminated pyrite are common throughout.

A major orange-weathering shear trending 020° was uncovered between 3m and 5m. A few fragments of quartz were noted. A second shear, about 50cm wide, trending 110/70S was intersected from 10m through 23m and offsets the feldspar porphyry by about one metre. Six samples from across and adjacent to these shears yielded strongly anomalous arsenic results up to 520 ppm, but negligible gold values.

Table 4:

TRENCH ROCK SAMPLES

Sample Number	Length (m)	Width (m)	Description	Au (ppb)	Au (oz/ton)	Other (ppm)
PE941-VN1	GRAB		lim.stained vein		.152	Bi 14
PE941-VN2	GRAB		lim. stained vein		.362	Bi 47, W 135
PE941-1	1.00		shear, str. propyl. altn.	12		
PE941-2	2.10		lim. stained QV, rare tr PY		.045	
PE941-3	0.65		" " "		1.349 (1.401)	Bi 128 (131), W247 (250)
PE941-4	0.65		" " "		.036	W67
PE941-5	1.00		" " "		.004	
PE941-6	0.45		" " "		.004	W 491
PE941-7	0.10	0.10	" " "		.03	W 60
PE941-8	1.60		diorite, dissem. PY and CP	15		
PE941-9	1.00		Flsp. prophyry, tr dissem PY, CP	110		
PE941-10	1.00		diorite, dissem. PY and CP	10		
PE941-11	0.50		" " "	27		Bi 10
PE941-12	1.00		" " "	10		
PE941-13	1.00		1cm QV, rare tr PY, in shear		.001	
PE942-1	2.50		orange weath. fault zone	19		
PE942-2	1.10		diorite, tr dissem PY	28 (39)		
PE942-3	0.50	0.50	orange weath. shear	4		As 429
PE942-4	0.80		diorite, dissem PY, wk. silic	2		
PE942-5	0.50	0.50	orange weath. shear	4		As 520
PE942-6	0.50	0.50	" "	6		As 487

Notes:

( ) Value in bracket denotes re-assay or analysis.

7.0 PERSONNEL & CONTRACTORS

Personnel:

	Time Period	Days Worked & Description
J. Tindle, Sampler Whistler, B.C.	May 31 - June 25/94	15 ½ - Soil sampling and travel.
J. Thornton, Sampler Whistler, B.C.	May 31 - June 25/94	14 ½ - Soil sampling and travel.
G. Harris, Geologist Coquitlam, B.C.	June 11 - August 7/94	21 - Prospecting and soil sampling.
L. Oseen, Sampler North Vancouver, B.C.	June 11 - July 12/94	15 - Soil sampling.
B. Johnson, Sampler Nelson, B.C.	September 19 - 21/94	2 - Trench cleaning and sampling.
P.W. Conroy, Geologist Vancouver, B.C.	September 19 - 21/94	3 - Trench mapping and sample layout. Evaluation of results and report preparation.
E.A. Balon, Prospector	June 11 - September 1/94	33 - Grid layout and supervision of soil samplers; prospecting and rock sampling; trench layout. Evaluation of results and report preparation.

Contractors:

Wiltech Developments Inc. Kelowna, B.C. (one backhoe operator)	August 31 - September 1/94	2 - Excavator trenching and mob/demob. equipment from site.

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8.0 STATEMENT OF COSTS

PEN PROPERTY

PROFESSIONAL, TECHNICAL & GEOLOGICAL SERVICES	$ 6,800
SALARIES & BENEFITS	8,100
GEOCHEMICAL ANALYSIS	13,100
FOOD & ACCOMMODATION	2,550
VEHICLE RENTAL, SHIPPING AND SUPPLIES	2,440
TOTAL EXPENDITURES	$32,990

****

9.0 REFERENCES

Balon, E.A.:

1992: 1991 Regional Exploration, southern British Columbia, Okanagan Areas. (Cordilleran Engineering Ltd., unpublished report).

1994: 1993 Geochemical Report (Assessment) on the Pen Property.

B.C. Ministry of Energy Mines and Petroleum Resources:
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1988: Geology of the Pennask Mountain Area, 92H/16, B.C. Ministry of Energy, Mines and Petroleum Resources Open File Map 1988-7, Scale 1:25,000.

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1992: On a Proposed Plutonic Porphyry Gold Deposit Model; in Nonrenewable Resources, pp.293-302, Oxford University Press 0961-1444/92.

Jakubowski, W.J.:

1992: 1991 Drilling and Trenching (Assessment) Report of the Elk Property.

Monger, J.W.H.:

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Rice, H.M.A.:

1947: Geology and Mineral Deposits of the Princeton Map-Area B.C. GSC Memoir 243

Rowe, J.D. and Balon, E.A.:

1990: 1988 and 1989 Regional Exploration, Southern British Columbia, Okanagan, Princeton and Osoyoos Areas (Cordilleran Engineering Ltd., unpublished report).

1991: 1990 Regional Exploration, Southern British Columbia, Okanagan Area (Cordilleran Engineering Ltd. unpublished report).

Rowe, J.D.:

1992: 1991 Geochemical Report (Assessment) on the Pen Property.

1993: 1992 Prospecting Report (Assessment) on the Pen Property.

Tempelman-Kluit, D.J.:

1989: Geology, Penticton, British Columbia, GSC Map 1736A, Scale 1:25;0,000

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10.0 STATEMENT OF QUALIFICATIONS

I, Edward A. Balon, of North Vancouver, British Columbia hereby certify that:

1. I am a prospector and geological/mining technician residing at 501 - 250 West First Street, and employed by Cordilleran Engineering Ltd. of 1980 - 1055 West Hastings Street, Vancouver, British Columbia V6E 2E9

2. I have received a Diploma in Mining Engineering Technology (integrated Geology, Mining and Metallurgy) from Nothern College - Haileybury School of Mines, Ontario in 1970.

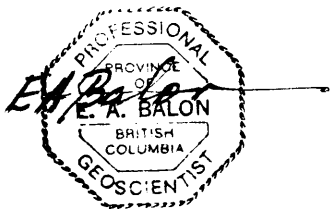
3. I have taken several Continuing Education Courses in Geoscience since 1970, including Exploration Geochemistry at the University of British Columbia, Vancouver, B. C. in 1984/85.

4. I am a member of the Association of Professional Engineers and Geoscientists of the Province of British Columbia, registration number 20265.

5. I have practiced my profession for twenty-five years in British Columbia, Yukon and Northwest Territories.

6. I am co-author of this report and supervisor of the field work conducted on the Pen claim group by Cordilleran Engineering Ltd. during the period June 11 to September 21, 1994.

CORDILLERAN ENGINEERING LTD.



E. A. Balon, P.Geo

February 1995
Vancouver, B.C.

10.0 STATEMENT OF QUALIFICATIONS

I, Paul Conroy, of Vancouver, British Columbia hereby certify that:

1. I am a professional geologist residing at 3587 East 45th Avenue, and employed by Cordilleran Engineering Ltd. of 1980 - 1055 West Hastings Street, Vancouver, British Columbia V6E 2E9

2. I have received a B.Sc. degree in Geological Sciences from the University of British Columbia, Vancouver, B. C. in 1982.

3. I am registered with the Association of Professional Engineers and Geoscientists of the Province of British Columbia, having received professional status in 1992.

4. I have practiced my profession for thirteen years in British Columbia, Yukon and Northwest Territories.

5. I am co-author of this report and performed part of the field work conducted on the Pen claim group by Cordilleran Engineering Ltd. during the period September 19, 1994 to September 21, 1994

CORDILLERAN ENGINEERING LTD.

Paul Wm. Conroy, B.Sc., P.Geo
Geologist

February 1995
Vancouver, B. C.

11.0 ANALYSIS & ASSAY CERTIFICATES

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Cordilleran Engineering Ltd. PROJECT PEN #1 File # 94-1729 Page 1

1980 - 1055 W. Hastings S, Vancouver BC V6E 2E9 Submitted by: E.A. Balon

SAMPLE#	Au* ppb
6000E 12100N	4
6000E 12050N	3
6000E 12000N	2
6000E 11950N	2
6000E 11900N	4
6000E 11850N	2
6000E 11800N	4
6000E 11750N	3
6000E 11700N	3
6000E 11650N	8
6000E 11600N	12
6000E 11550N	2
RE 6000E 11550N	2
6000E 11500N	1
6000E 11450N	1
6000E 11400N	4
6000E 11350N	15
6000E 11300N	4
6000E 11250N	17
6000E 11200N	3
6000E 11150N	4
6000E 11100N	5
6000E 11050N	4
6000E 11000N	4
6000E 10950N	3
6000E 10900N	3
6000E 10850N	3
6000E 10800N	7
6000E 10750N	7
6000E 10700N	2
6000E 10650N	2
6000E 10600N	1
6000E 10550N	1
6000E 10500N	5
6000E 10450N	2
STANDARD AU-S	53

- SAMPLE TYPE: SOIL AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE. Samples beginning 'RE' are duplicate samples.

DATE RECEIVED: JUN 17 1994 **DATE REPORT MAILED:** June 23/94. **SIGNED BY.** D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

SAMPLE#	Au* ppb
6000E 10400N	8
6000E 10350N	4
6000E 10300N	3
6000E 10250N	2
6000E 10150N	4
6000E 10100N	5
6000E 10050N	5
6000E 10025N	7
6000E 10000N	5
6400E 12100N	2
6400E 12050N	1
6400E 12000N	2
6400E 11950N	1
6400E 11900N	1
RE 6400E 11900N	1
6400E 11850N	<1
6400E 11800N	2
6400E 11750N	2
6400E 11700N	2
6400E 11650N	33
6400E 11600N	4
6400E 11550N	2
6400E 11500N	2
6400E 11450N	3
6400E 11400N	2
6400E 11350N	3
6400E 11300N	2
6400E 11250N	35
6400E 11200N	3
6400E 11150N	3
6400E 11100N	3
6400E 11050N	770
6400E 11000N	4
6400E 10950N	3
6400E 10900N	2
STANDARD AU-S	53

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Au* ppb
6400E 10850N	3
6400E 10800N	2
6400E 10750N	1
6400E 10700N	1
6400E 10650N	1
6400E 10600N	3
6400E 10550N	1
6400E 10500N	1
6400E 10450N	2
6400E 10400N	15
6800E 12100N	4
6800E 12050N	2
6800E 12000N	2
6800E 11950N	2
6800E 11900N	1
6800E 11850N	2
6800E 11800N	68
6800E 11750N	3
6800E 11700N	3
6800E 11650N	9
RE 6800E 11650N	2
6800E 11600N	1
6800E 11550N	2
6800E 11500N	1
6800E 11450N	1
6800E 11400N	1
6800E 11350N	12
6800E 11300N	1
6800E 11250N	2
6800E 11200N	2
6800E 11150N	3
6800E 11100N	1
6800E 11050N	1
6800E 11000N	1
6800E 10950N	2
STANDARD AU-S	47

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Au* ppb
6800E 10900N	7
6800E 10850N	3
6800E 10800N	35
6800E 10750N	4
6800E 10700N	2
6800E 10650N	4
RE 6800E 10650N	9
6800E 10600N	2
6800E 10550N	2
6800E 10500N	3
6800E 10450N	4
6800E 10400N	2
6800E 10350N	1
6800E 10300N	2
6800E 10250N	1
6800E 10200N	2
6800E 10150N	1
6800E 10100N	2
6800E 10050N	3
6800E 10025N	4
6800E 10000N	5
7600E 11950N	4
7600E 11900N	3
7600E 11750N	18
7600E 11700N	8
7600E 11650N	13
7600E 11600N	16
7600E 11550N	6
7600E 11500N	5
7600E 11450N	7
7600E 11300N	4
7600E 11250N	2
7600E 11200N	8
7600E 11100N	3
7600E 11050N	3
STANDARD AU-S	52

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Au* ppb
7600E 11000N	4
7600E 10950N	2
RE 7600E 10950N	8
7600E 10900N	3
7600E 10850N	1
7600E 10800N	2
7600E 10750N	3
7600E 10700N	2
7600E 10650N	4
7600E 10600N	5
7600E 10550N	2
7600E 10500N	4
7600E 10450N	11
7600E 10400N	2
7600E 10350N	1
7600E 10300N	2
7600E 10250N	2
7600E 10200N	11
7600E 10150N	1
7600E 10100N	3
7600E 10050N	7
7600E 10000N	1
8000E 11950N	3
8000E 11900N	3
8000E 11850N	3
8000E 11800N	3
8000E 11750N	4
8000E 11700N	4
8000E 11650N	1
8000E 11600N	2
8000E 11550N	3
8000E 11500N	2
8000E 11450N	2
8000E 11400N	3
8000E 11350N	4
STANDARD AU-S	47

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Au* ppb
8000E 11300N	7
8000E 11250N	6
8000E 11200N	4
8000E 11150N	13
8000E 11100N	3
8000E 11050N	4
8000E 11000N	4
8000E 10950N	2
8000E 10900N	3
8000E 10850N	2
8000E 10800N	3
8000E 10750N	3
8000E 10700N	8
RE 8000E 10700N	8
8000E 10650N	2
8000E 10600N	5
8000E 10550N	1
8000E 10500N	5
8000E 10450N	2
8000E 10400N	1
8000E 10350N	3
8000E 10300N	2
8000E 10250N	10
8000E 10200N	3
8000E 10150N	2
8000E 10100N	1
8000E 10050N	5
8000E 10000N	2
8400E 11950N	6
8400E 11900N	1
8400E 11850N	1
8400E 11800N	1
8400E 11750N	1
8400E 11700N	2
8400E 11650N	2
STANDARD AU-S	48

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Au* ppb
8400E 11600N	3
8400E 11550N	3
RE 8400E 11550N	2
8400E 11500N	3
8400E 11450N	52
8400E 11400N	3
8400E 11350N	5
8400E 11300N	3
8400E 11250N	2
8400E 11200N	2
8400E 11150N	39
8400E 11100N	3
8400E 11050N	3
8400E 11000N	1
8400E 10950N	2
8400E 10900N	3
8400E 10850N	10
8400E 10500N	2
8400E 10450N	5
8400E 10400N	3
8400E 10350N	2
8400E 10300N	16
8400E 10250N	2
8400E 10200N	1
8400E 10150N	2
8400E 10100N	2
8400E 10050N	2
8400E 10000N	1
8800E 11950N	2
8800E 11900N	3
8800E 11850N	2
8800E 11800N	3
8800E 11750N	1
8800E 11700N	2
8800E 11650N	1
STANDARD AU-S	48

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Au* ppb
8800E 11550N	4
8800E 11500N	2
8800E 11450N	3
8800E 11400N	2
8800E 11350N	1
8800E 11300N	1
8800E 11250N	1
8800E 11200N	1
8800E 11150N	1
8800E 11100N	1
8800E 11050N	3
8800E 11000N	3
8800E 10950N	4
8800E 10900N	10
8800E 10850N	3
8800E 10800N	3
8800E 10750N	6
8800E 10700N	3
8800E 10650N	3
8800E 10600N	2
8800E 10550N	2
8800E 10500N	3
9200E 11950N	2
RE 9200E 11950N	1
9200E 11900N	4
9200E 11850N	40
9200E 11800N	5
9200E 11750N	4
9200E 11700N	2
9200E 11650N	4
9200E 11600N	3
9200E 11550N	3
9200E 11500N	4
9200E 11450N	37
9200E 11400N	9
STANDARD AU-S	50

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Au* ppb
9200E 11350N	24
RE 9200E 11350N	5
9200E 11300N	4
9200E 11250N	7
9200E 11200N	3
9200E 11150N	7
9200E 11100N	8
9200E 11050N	6
9200E 11000N	3
9200E 10950N	1
9200E 10900N	2
9200E 10850N	2
9200E 10800N	5
9200E 10750N	29
9200E 10700N	2
9200E 10650N	8
9200E 10600N	1
9200E 10550N	2
9200E 10500N	1
9200E 10450N	1
9200E 10400N	1
9200E 10350N	1
9200E 10300N	2
9200E 10250N	15
9200E 10200N	1
9200E 10150N	2
9200E 10100N	3
9200E 10050N	2
9200E 10000N	3
10600E 8000N	15
10600E 7950N	32
10600E 7900N	23
10600E 7850N	8
10600E 7800N	87
10600E 7750N	41
STANDARD AU-S	51

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Au* ppb
10600E 7700N	5
10600E 7650N	2
10600E 7600N	4
10600E 7550N	3
10600E 7500N	9
10600E 7450N	3
10600E 7400N	7
10600E 7350N	28
10600E 7300N	5
10600E 7250N	5
10600E 7200N	3
RE 10600E 7200N	4
10600E 7150N	7
10600E 7100N	5
10600E 7050N	18
10600E 7000N	4
10600E 6950N	11
10600E 6900N	6
10600E 6850N	4
10600E 6800N	5
10600E 6750N	4
10600E 6700N	3
10600E 6650N	28
10600E 6600N	5
10600E 6550N	3
10600E 6500N	5
10600E 6450N	35
10600E 6400N	8
10600E 6350N	4
10600E 6300N	9
10600E 6250N	33
10600E 6200N	16
10600E 6150N	7
10600E 6100N	15
10600E 6050N	6
STANDARD AU-S	47

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Au* ppb
10600E 6040N	6
10600E 6030N	8
10600E 6000N	3
10600E 5950N	3
10600E 5900N	2
10600E 5850N	3
10600E 5800N	4
10600E 5750N	4
10600E 5700N	3
10600E 5650N	8
10600E 5600N	7
10600E 5500N	2
10600E 5450N	5
10600E 5400N	11
10600E 5350N	3
10600E 5300N	19
10600E 5250N	5
10600E 5200N	9
10600E 5150N	4
RE 10600E 5150N	48
10600E 5100N	3
10600E 5050N	11
10600E 5000N	7
10600E 4950N	5
10600E 4900N	2
10600E 4850N	5
10600E 4800N	3
10600E 4750N	2
10600E 4700N	6
10600E 4650N	2
10600E 4600N	2
10600E 4550N	7
10600E 4500N	2
10600E 4450N	3
10600E 4400N	5
STANDARD AU-S	50

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Au* ppb
10600E 4350N	3
10600E 4300N	4
10600E 4250N	3
10600E 4200N	46
10600E 4000N	4
11000E 8000N	9
11000E 7950N	5
11000E 7900N	5
11000E 7850N	3
11000E 7800N	6
11000E 7750N	2
11000E 7700N	8
11000E 7650N	5
11000E 7600N	5
11000E 7550N	14
11000E 7500N	2
11000E 7450N	2
11000E 7400N	3
11000E 7350N	1
11000E 7300N	1
RE 11000E 7300N	1
11000E 7250N	2
11000E 7200N	1
11000E 7150N	1
11000E 7100N	1
11000E 7050N	1
11000E 7000N	2
11000E 6950N	2
11000E 6900N	2
11000E 6850N	2
11000E 6800N	2
11000E 6750N	2
11000E 6700N	1
11000E 6650N	3
11000E 6600N	3
STANDARD AU-S	46

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Au* ppb
11000E 6550N	3
11000E 6500N	2
11000E 6450N	3
11000E 6400N	1
11000E 6350N	2
11000E 6300N	1
11000E 6250N	2
11000E 6200N	1
11000E 6150N	6
11000E 6100N	2
11000E 6050N	4
11000E 6000N	2
11000E 5950N	5
11000E 5900N	2
11000E 5850N	2
11000E 5800N	1
11000E 5750N	2
11000E 5700N	<1
11000E 5650N	1
RE 11000E 5650N	2
11000E 5600N	1
11000E 5550N	3
11000E 5500N	6
11000E 5450N	2
11000E 5400N	3
11000E 5350N	8
11000E 5300N	16
11000E 5250N	3
11000E 5200N	2
11000E 5150N	1
11000E 5100N	2
11000E 5050N	2
11000E 5000N	2
11000E 4950N	1
11000E 4900N	5
STANDARD AU-S	48

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Au* ppb
11000E 4850N	3
11000E 4800N	2
11000E 4750N	3
11000E 4700N	2
11000E 4650N	3
11000E 4600N	1
11000E 4550N	2
11000E 4500N	4
11000E 4450N	2
11000E 4400N	4
11000E 4350N	2
11000E 4300N	2
RE 11000E 4300N	2
11000E 4250N	1
11000E 4000N	1
11400E 8000N	<1
11400E 7950N	4
11400E 7900N	1
11400E 7850N	2
11400E 7800N	3
11400E 7750N	2
11400E 7700N	2
11400E 7650N	3
11400E 7600N	1
11400E 7550N	7
11400E 7500N	3
11400E 7450N	15
11400E 7400N	1
11400E 7350N	7
11400E 7300N	3
11400E 7250N	<1
11400E 7200N	4
11400E 7150N	1
11400E 7100N	1
11400E 7050N	1
STANDARD AU-S	53

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Au* ppb
11400E 7000N	3
11400E 6950N	5
11400E 6900N	5
RE 11400E 6900N	2
11400E 6850N	2
11400E 6800N	2
11400E 6750N	1
11400E 6700N	16
11400E 6650N	3
11400E 6600N	7
11400E 6550N	3
11400E 6500N	1
11400E 6450N	2
11400E 6400N	3
11400E 6350N	3
11400E 6300N	2
11400E 6250N	1
11400E 6200N	1
11400E 6150N	3
11400E 6100N	2
11400E 6050N	3
11400E 6035N	5
11400E 6025N	1
11400E 6000N	2
11400E 5950N	3
11400E 5900N	3
11400E 5850N	4
11400E 5800N	5
11400E 5750N	3
11400E 5700N	4
11400E 5650N	6
11400E 5600N	5
11400E 5550N	3
11400E 5500N	3
11400E 5450N	3
STANDARD AU-S	49

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Au* ppb
11400E 5400N	8
11400E 5350N	6
11400E 5300N	4
11400E 5250N	2
11400E 5200N	3
11400E 5150N	9
11400E 5100N	2
11400E 5050N	3
11400E 5000N	2
11400E 4950N	2
11400E 4900N	2
11400E 4850N	6
11400E 4800N	4
11400E 4750N	10
11400E 4700N	3
RE 11400E 4700N	2
11400E 4650N	3
11400E 4600N	5
11400E 4550N	2
11400E 4500N	4
11400E 4450N	3
11400E 4400N	4
11400E 4350N	2
11400E 4300N	4
11400E 4250N	2
11400E 4200N	2
11400E 4000N	4
11800E 6000N	2
11800E 5950N	3
11800E 5900N	2
11800E 5850N	6
11800E 5800N	3
11800E 5750N	3
11800E 5700N	2
11800E 5650N	6
STANDARD AU-S	53

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Au* ppb
11800E 5600N	3
11800E 5550N	12
11800E 5500N	1
11800E 5450N	2
11800E 5400N	5
11800E 5350N	6
11800E 5300N	3
11800E 5250N	10
11800E 5200N	4
11800E 5150N	8
11800E 5100N	140
11800E 5050N	5
11800E 5000N	3
11800E 4950N	1
11800E 4900N	3
RE 11800E 4900N	3
11800E 4850N	1
11800E 4800N	1
11800E 4750N	1
11800E 4700N	1
11800E 4650N	1
11800E 4600N	1
11800E 4550N	2
11800E 4500N	<1
11800E 4450N	1
11800E 4400N	1
11800E 4350N	5
11800E 4300N	<1
11800E 4250N	3
11800E 4000N	2
STANDARD AU-S	47

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Cordilleran Engineering Ltd. PROJECT PEN #2 File # 94-1759 Page 1

1980 - 1055 W. Hastings S, Vancouver BC V6E 2E9 Submitted by: E.A. Balon

SAMPLE#	Au* ppb
4800E 12100N	4
4800E 12050N	1
4800E 12000N	1
4800E 11950N	1
4800E 11900N	2
4800E 11850N	1
4800E 11800N	2
4800E 11750N	1
4800E 11700N	2
4800E 11650N	1
4800E 11600N	1
4800E 11550N	1
4800E 11500N	2
4800E 11450N	1
4800E 11400N	1
RE 4800E 11400N	3
4800E 11350N	1
4800E 11300N	2
4800E 11250N	24
4800E 11200N	2
4800E 11150N	1
4800E 11100N	2
4800E 11050N	5
4800E 11000N	2
4800E 10950N	7
4800E 10900N	1
4800E 10850N	3
4800E 10800N	8
4800E 10750N	7
4800E 10700N	1
4800E 10650N	4
4800E 10600N	1
4800E 10550N	3
4800E 10500N	18
4800E 10450N	5
STANDARD AU-S	47

- SAMPLE TYPE: SOIL AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE. Samples beginning 'RE' are duplicate samples.

DATE RECEIVED: JUN 21 1994 **DATE REPORT MAILED:** June 27/94 **SIGNED BY** C. Leong ..D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

SAMPLE#	Au* ppb
4800E 10400N	22
4800E 10350N	27
4800E 10300N	7
4800E 10250N	4
4800E 10200N	3
4800E 10150N	3
4800E 10100N	3
4800E 10050N	2
4800E 10000N	4
4800E 9950N	59
RE 4800E 9950N	110
4800E 9900N	12
4800E 9850N	31
4800E 9800N	4
4800E 9750N	3
4800E 9700N	9
4800E 9650N	3
4800E 9600N	6
4800E 9300N	3
4800E 9250N	4
4800E 9200N	3
4800E 9150N	4
4800E 9100N	5
4800E 9050N	3
4800E 9000N	2
4800E 8950N	3
4800E 8900N	2
4800E 8850N	2
4800E 8800N	7
4800E 8750N	2
4800E 8700N	2
4800E 8650N	10
4800E 8600N	9
4800E 8550N	2
4800E 8500N	1
STANDARD AU-S	51

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Au* ppb
4800E 8450N	6
4800E 8400N	1
4800E 8350N	2
4800E 8300N	12
4800E 8250N	3
4800E 8200N	2
4800E 8150N	2
RE 4800E 8150N	3
4800E 8100N	1
4800E 8050N	1
4800E 8000N	1
4800E 7800N	290
4800E 7750N	6
4800E 7700N	3
4800E 7650N	2
4800E 7600N	2
4800E 7550N	2
4800E 7500N	2
4800E 7450N	2
4800E 7400N	4
4800E 7350N	3
4800E 7300N	1
4800E 7250N	2
4800E 7200N	2
4800E 7150N	1
4800E 7100N	3
4800E 7050N	2
4800E 7000N	1
4800E 6950N	3
4800E 6900N	2
4800E 6850N	3
4800E 6800N	1
4800E 6750N	2
4800E 6700N	3
4800E 6650N	2
STANDARD AU-S	48

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Au* ppb
4800E 6550N	6
4800E 6500N	1
4800E 6450N	1
4800E 6400N	<1
4800E 6350N	2
4800E 6300N	4
4800E 6250N	1
4800E 6200N	1
4800E 6150N	3
4800E 6100N	1
4800E 6000N	2
RE 4800E 6000N	2
4800E 5950N	1
5200E 12100N	5
5200E 12050N	2
5200E 12000N	1
5200E 11950N	2
5200E 11900N	4
5200E 11850N	3
5200E 11800N	1
5200E 11750N	6
5200E 11700N	7
5200E 11650N	3
5200E 11600N	5
5200E 11550N	2
5200E 11500N	2
5200E 11450N	1
5200E 11400N	4
5200E 11350N	15
5200E 11300N	<1
5200E 11250N	2
5200E 11200N	<1
5200E 11150N	1
5200E 11100N	2
5200E 11050N	2
STANDARD AU-S	47

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Au* ppb
5200E 11000N	2
5200E 10950N	3
RE 5200E 10950N	4
5200E 10900N	1
5200E 10850N	1
5200E 10800N	1
5200E 10750N	1
5200E 10700N	1
5200E 10650N	3
5200E 10600N	2
5200E 10550N	1
5200E 10500N	1
5200E 10450N	1
5200E 10400N	1
5200E 10350N	3
5200E 10300N	3
5200E 10250N	1
5200E 10200N	2
5200E 10150N	3
5200E 10100N	3
5200E 10050N	2
5200E 10000N	4
5200E 9975N	2
5200E 9950N	4
5200E 9900N	4
5200E 9850N	2
5200E 9800N	3
5200E 9750N	4
5200E 9700N	2
5200E 9650N	2
5200E 9600N	3
5200E 9550N	2
5200E 9500N	10
5200E 9450N	2
5200E 9400N	8
STANDARD AU-S	52

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Au* ppb
5200E 9350N	7
RE 5200E 9350N	49
5200E 9300N	5
5200E 9250N	1
5200E 9200N	130
5200E 9150N	17
5200E 9100N	7
5200E 9050N	2
5200E 9000N	2
5200E 8950N	1
5200E 8900N	20
5200E 8850N	2
5200E 8800N	22
5200E 8750N	3
5200E 8700N	4
5200E 8650N	3
5200E 8600N	3
5200E 8550N	8
5200E 8500N	6
5200E 8450N	2
5200E 8400N	7
5200E 8350N	5
5200E 8300N	2
5200E 8250N	9
5200E 8200N	2
5200E 8150N	3
5200E 8100N	12
5200E 8050N	3
5200E 8000N	2
5200E 7750N	4
5200E 7700N	6
5200E 7650N	2
5200E 7600N	7
5200E 7550N	3
5200E 7500N	3
STANDARD AU-S	52

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Au* ppb
5200E 7450N	2
5200E 7400N	2
5200E 7350N	2
5200E 7300N	1
5200E 7250N	1
5200E 7200N	10
5200E 7150N	2
5200E 7100N	2
5200E 7050N	3
5200E 7000N	2
5200E 6950N	3
5200E 6900N	1
RE 5200E 6900N	1
5200E 6850N	2
5200E 6800N	1
5200E 6750N	2
5200E 6700N	2
5200E 6650N	3
5200E 6600N	6
5200E 6550N	2
5200E 6500N	1
5200E 6450N	1
5200E 6400N	2
5200E 6350N	1
5200E 6300N	1
5200E 6250N	2
5200E 6200N	2
5200E 6150N	1
5200E 6100N	1
5200E 6050N	5
5200E 6000N	1
5200E 5950N	2
5600E 12100N	1
5600E 12050N	8
5600E 12025N	11
STANDARD AU-S	49

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Au* ppb
5600E 12000N	3
5600E 11950N	1
5600E 11900N	1
5600E 11850N	4
5600E 11800N	1
5600E 11750N	3
5600E 11700N	2
5600E 11650N	2
5600E 11600N	1
5600E 11550N	6
5600E 11500N	8
5600E 11450N	3
5600E 11400N	4
5600E 11350N	1
5600E 11300N	4
5600E 11250N	1
5600E 11200N	2
5600E 11150N	5
5600E 11100N	3
5600E 11050N	3
RE 5600E 11050N	2
5600E 11000N	1
5600E 10950N	1
5600E 10900N	9
5600E 10850N	2
5600E 10800N	1
5600E 10750N	3
5600E 10700N	3
5600E 10650N	3
5600E 10600N	4
5600E 10550N	1
5600E 10450N	4
5600E 10400N	4
5600E 10350N	2
5600E 10300N	2
STANDARD AU-S	45

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Au* ppb
5600E 10250N	4
5600E 10200N	3
5600E 10150N	4
5600E 10100N	2
5600E 10050N	1
5600E 10000N	2
5600E 9950N	1
5600E 9900N	790
5600E 9850N	9
5600E 9750N	24
5600E 9700N	12
5600E 9650N	1
5600E 9600N	1
5600E 9550N	2
5600E 9500N	2
5600E 9450N	4
5600E 9400N	2
5600E 9350N	3
5600E 9300N	2
RE 5600E 9250N	2
5600E 9250N	7
5600E 9200N	3
5600E 9150N	2
5600E 9100N	4
5600E 9050N	3
5600E 9000N	2
5600E 8950N	2
5600E 8900N	9
5600E 8850N	2
5600E 8800N	3
5600E 8750N	6
5600E 8700N	2
5600E 8650N	5
5600E 8600N	1
5600E 8550N	2
STANDARD AU-S	51

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Au* ppb
5600E 8500N	14
5600E 8450N	9
5600E 8400N	45
5600E 8350N	9
5600E 8300N	2
5600E 8250N	8
5600E 8200N	4
5600E 8150N	5
5600E 8100N	4
5600E 8050N	13
5600E 8025N	62
5600E 8000N	12
5600E 7750N	5
5600E 7700N	9
5600E 7650N	14
5600E 7600N	3
5600E 7550N	5
5600E 7500N	24
5600E 7450N	6
5600E 7400N	5
5600E 7350N	12
5600E 7300N	5
RE 5600E 7300N	5
5600E 7250N	6
5600E 7200N	3
5600E 7150N	21
5600E 7100N	8
5600E 7050N	22
5600E 7000N	5
5600E 6950N	7
5600E 6900N	4
5600E 6850N	6
5600E 6800N	4
5600E 6750N	30
5600E 6700N	4
STANDARD AU-S	50

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Au* ppb
5600E 6650N	4
5600E 6600N	3
5600E 6550N	3
5600E 6500N	1
5600E 6450N	3
5600E 6400N	5
5600E 6350N	2
5600E 6300N	2
5600E 6250N	2
5600E 6200N	4
5600E 6150N	2
5600E 6100N	2
5600E 6050N	2
5600E 6000N	6
5600E 5950N	2
6000E 9950N	4
6000E 9900N	<1
RE 6000E 9900N	1
6000E 9850N	1
6000E 9750N	100
6000E 9700N	3
6000E 9650N	3
6000E 9600N	2
6000E 9550N	1
6000E 9500N	1
6000E 9450N	1
6000E 9400N	3
6000E 9350N	1
6000E 9300N	1
6000E 9250N	1
6000E 9200N	2
6000E 9150N	1
6000E 9100N	<1
6000E 9050N	2
6000E 9000N	1
STANDARD AU-S	47

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Au* ppb
6000E 8950N	4
6000E 8900N	3
6000E 8850N	17
6000E 8800N	2
RE 6000E 8800N	1
6000E 8750N	2
6000E 8700N	5
6000E 8650N	3
6000E 8600N	2
6000E 8550N	2
6000E 8500N	2
6000E 8450N	1
6000E 8400N	1
6000E 8350N	<1
6000E 8300N	<1
6000E 8250N	1
6000E 8200N	3
6000E 8150N	2
6000E 8100N	2
6000E 8050N	2
6000E 8000N	1
6000E 7800N	1
6000E 7750N	2
6000E 7700N	3
6000E 7650N	5
6000E 7600N	72
6000E 7550N	6
6000E 7500N	5
6000E 7450N	3
6000E 7400N	7
6000E 7350N	1
6000E 7300N	3
6000E 7250N	4
6000E 7200N	5
6000E 7150N	6
STANDARD AU-S	45

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Au* ppb
6000E 7100N	3
6000E 7050N	4
6000E 7000N	2
RE 6000E 7000N	6
6000E 6950N	5
6000E 6900N	1
6000E 6850N	14
6000E 6800N	1
6000E 6750N	1
6000E 6550N	2
6000E 6500N	1
6000E 6450N	1
6000E 6400N	4
6000E 6350N	2
6000E 6300N	<1
6000E 6250N	2
6000E 6200N	1
6000E 6150N	12
6000E 6100N	4
6000E 6050N	13
6000E 6000N	2
6000E 5950N	5
6400E 10350N	1
6400E 10300N	1
6400E 10250N	2
6400E 10200N	1
6400E 10150N	8
6400E 10100N	2
6400E 10050N	1
6400E 10000N	1
6400E 9950N	5
6400E 9900N	2
6400E 9850N	5
6400E 9800N	4
6400E 9750N	6
STANDARD AU-S	54

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Au* ppb
6400E 9700N	6
6400E 9650N	3
6400E 9600N	10
6400E 9550N	3
6400E 9500N	2
6400E 9450N	4
6400E 9400N	4
6400E 9350N	1
6400E 9300N	15
6400E 9250N	2
6400E 9200N	1
6400E 9150N	3
6400E 9100N	3
6400E 9050N	2
6400E 9000N	2
6400E 8950N	2
RE 6400E 8950N	1
6400E 8900N	2
6400E 8850N	3
6400E 8800N	4
6400E 8750N	4
6400E 8700N	2
6400E 8650N	2
6400E 8600N	11
6400E 8550N	2
6400E 8500N	5
6400E 8450N	2
6400E 8400N	3
6400E 8350N	1
6400E 8300N	4
6400E 8250N	9
6400E 8200N	2
6400E 8150N	4
6400E 8100N	2
6400E 8050N	2
STANDARD AU-S	52

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Au* ppb
6400E 8000N	2
6400E 7800N	2
6400E 7750N	1
6400E 7700N	3
6400E 7650N	7
6400E 7600N	20
6400E 7550N	1
6400E 7500N	2
6400E 7450N	2
6400E 7400N	2
6400E 7350N	3
6400E 7300N	2
6400E 7250N	1
6400E 7200N	3
6400E 7150N	7
6400E 7100N	3
6400E 7050N	1
6400E 7000N	2
RE 6400E 7000N	2
6400E 6950N	1
6400E 6900N	2
6400E 6850N	18
6400E 6800N	3
6400E 6750N	2
6400E 6700N	3
6400E 6650N	2
6400E 6600N	150
6400E 6550N	6
6400E 6500N	3
6400E 6450N	3
6400E 6400N	3
6400E 6350N	3
6400E 6300N	1
6400E 6250N	7
6400E 6200N	1
STANDARD AU-S	49

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Au* ppb
6400E 6150N	1
6400E 6100N	2
6400E 6050N	1
6400E 6000N	1
6400E 5950N	1
6800E 9950N	3
6800E 9900N	1
6800E 9850N	<1
6800E 9800N	33
6800E 9750N	2
6800E 9700N	1
6800E 9650N	<1
RE 6800E 9650N	1
6800E 9600N	<1
6800E 9550N	<1
6800E 9500N	1
6800E 9450N	<1
6800E 9400N	7
6800E 9350N	2
6800E 9300N	1
6800E 9250N	8
6800E 9200N	1
6800E 9150N	1
6800E 9100N	1
6800E 9050N	1
6800E 9000N	1
6800E 8950N	1
6800E 8900N	1
6800E 8850N	1
6800E 8800N	1
6800E 8750N	18
6800E 8700N	1
6800E 8650N	7
6800E 8600N	1
6800E 8550N	1
STANDARD AU-S	46

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Au* ppb
6800E 8500N	2
6800E 8450N	3
6800E 8400N	1
6800E 8300N	6
6800E 8250N	32
6800E 8200N	1
6800E 8150N	1
6800E 8100N	1
6800E 8050N	1
6800E 8000N	1
6800E 7850N	2
6800E 7800N	7
6800E 7750N	3
6800E 7700N	3
6800E 7650N	3
6800E 7600N	2
6800E 7550N	1
6800E 7500N	1
6800E 7450N	14
6800E 7400N	2
6800E 7250N	4
6800E 7200N	3
RE 6800E 7200N	5
6800E 7150N	2
6800E 7100N	3
6800E 7050N	3
6800E 7000N	8
6800E 6950N	3
6800E 6900N	5
6800E 6850N	3
6800E 6800N	7
6800E 6750N	2
6800E 6700N	4
6800E 6650N	2
6800E 6600N	2
STANDARD AU-S	46

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Au* ppb
6800E 6550N	2
6800E 6500N	2
6800E 6450N	2
6800E 6400N	1
6800E 6300N	2
6800E 6250N	3
6800E 6200N	10
6800E 6150N	3
6800E 6100N	9
6800E 6050N	1
6800E 6000N	24
6800E 5950N	3
7000E 9950N	1
7000E 9900N	2
7000E 9850N	1
7000E 9800N	<1
RE 7000E 9800N	2
7000E 9750N	1
7000E 9700N	18
7000E 9650N	1
7000E 9600N	2
7000E 9550N	3
7000E 9500N	1
7000E 9450N	30
7000E 9400N	2
7000E 9350N	1
7000E 9300N	1
7000E 9250N	1
7000E 9200N	1
7000E 9150N	1
7000E 9100N	3
7000E 9050N	<1
7000E 9000N	2
7000E 8950N	<1
7000E 8900N	1
STANDARD AU-S	52

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Au* ppb
7000E 8850N	1
7000E 8800N	1
7000E 8750N	2
7000E 8700N	1
7000E 8650N	<1
7000E 8600N	1
7000E 8550N	1
7000E 8500N	1
7000E 8450N	1
7000E 8400N	2
7000E 8350N	1
7000E 8300N	9
7000E 8250N	1
7000E 8200N	1
7000E 8150N	<1
7000E 8100N	<1
7000E 8000N	2
7200E 7950N	3
7200E 7900N	2
7200E 7850N	1
7200E 7800N	1
7200E 7750N	<1
7200E 7700N	<1
7200E 7650N	14
RE 7200E 7650N	1
7200E 7600N	1
7200E 7550N	1
7200E 7500N	16
7200E 7450N	1
7200E 7400N	1
7200E 7350N	1
7200E 7300N	1
7200E 7250N	1
7200E 7200N	3
7200E 7150N	1
STANDARD AU-S	52

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Au* ppb
7200E 7100N	3
7200E 7050N	1
7200E 7000N	<1
7200E 6950N	1
RE 7200E 6950N	1
7200E 6900N	1
7200E 6850N	<1
7200E 6800N	<1
7200E 6750N	1
7200E 6700N	1
7200E 6650N	3
7200E 6600N	1
7200E 6550N	1
7200E 6500N	5
7200E 6450N	2
7200E 6400N	2
7200E 6300N	4
7200E 6250N	2
7200E 6200N	25
7200E 6150N	1
7200E 6050N	2
7200E 5950N	2
7600E 8000N	5
7600E 7950N	<1
7600E 7900N	1
7600E 7850N	<1
7600E 7800N	1
7600E 7750N	1
7600E 7700N	<1
7600E 7650N	1
7600E 7600N	1
7600E 7550N	<1
7600E 7500N	<1
7600E 7450N	2
7600E 7400N	<1
STANDARD AU-S	52

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Au* ppb
7600E 7350N	2
7600E 7300N	1
7600E 7250N	<1
7600E 7200N	<1
7600E 7150N	<1
7600E 7100N	<1
7600E 7050N	<1
7600E 7000N	1
11800E 8000N	3
11800E 7960N	2
11800E 7950N	19
11800E 7900N	1
11800E 7850N	7
11800E 7800N	3
11800E 7750N	10
11800E 7700N	3
11800E 7650N	5
RE 11800E 7650N	2
11800E 7600N	3
11800E 7550N	28
11800E 7500N	2
11800E 7450N	1
11800E 7400N	8
11800E 7350N	5
11800E 7300N	3
11800E 7250N	1
11800E 7200N	5
11800E 7150N	2
11800E 7100N	1
11800E 7050N	13
11800E 7000N	3
11800E 6950N	3
11800E 6900N	2
11800E 6850N	3
11800E 6800N	2
STANDARD AU-S	46

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Au* ppb
11800E 6750N	2
11800E 6700N	2
11800E 6650N	3
11800E 6600N	3
11800E 6550N	1
11800E 6500N	1
11800E 6450N	1
RE 11800E 6450N	1
11800E 6400N	3
11800E 6350N	3
11800E 6300N	3
11800E 6250N	4
11800E 6200N	2
11800E 6150N	1
11800E 6100N	2
11800E 6050N	2
STANDARD AU-S	52

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Cordilleran Engineering Ltd. PROJECT PEN #3 File # 94-1868 Page 1

1980 - 1055 W. Hastings S, Vancouver BC V6E 2E9 Submitted by: E.A. Balon

SAMPLE#	Au* ppb
6500E 8650N	7
6500E 8600N	2
6500E 8550N	2
6500E 8500N	2
6500E 8450N	2
6500E 8400N	2
6500E 8350N	2
6500E 8300N	3
6500E 8250N	6
6500E 8200N	3
6500E 8150N	2
6500E 8100N	2
6550E 8650N	2
6550E 8600N	2
6550E 8550N	2
6550E 8500N	5
6550E 8450N	2
6550E 8400N	1
RE 6550E 8400N	2
6550E 8350N	1
6550E 8300N	2
6550E 8250N	2
6550E 8200N	8
6550E 8150N	7
6550E 8100N	3
6650E 8650N	18
6650E 8600N	4
6650E 8550N	6
6650E 8500N	2
6650E 8450N	3
6650E 8400N	220
6650E 8350N	5
6650E 8300N	7
6650E 8250N	4
6650E 8200N	4
STANDARD AU-S	52

- SAMPLE TYPE: SOIL AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE. Samples beginning 'RE' are duplicate samples.

DATE RECEIVED: JUN 29 1994 **DATE REPORT MAILED:** July 5/94. **SIGNED BY**.....D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

SAMPLE#	Au* ppb
6650E 8150N	<1
6650E 8100N	3
6700E 8650N	2
6700E 8600N	1
6700E 8550N	2
6700E 8500N	460
6700E 8450N	12
6700E 8400N	11
6700E 8350N	6
RE 6700E 8350N	7
6700E 8300N	6
6700E 8250N	3
6700E 8200N	15
6700E 8150N	4
6700E 8100N	2
6900E 7850N	2
6900E 7800N	5
6900E 7750N	1
6900E 7600N	3
6900E 7550N	3
6900E 7500N	12
6900E 7450N	4
6900E 7400N	5
6950E 7850N	3
6950E 7800N	1
6950E 7750N	2
6950E 7600N	2
6950E 7550N	2
6950E 7500N	2
6950E 7450N	13
6950E 7400N	1
7050E 7850N	9
7050E 7800N	760
7050E 7750N	5
7050E 7600N	4
STANDARD AU-S	51

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Au* ppb
7050E 7550N	4
7050E 7500N	2
7050E 7450N	1
7050E 7400N	2
7100E 7850N	2
7100E 7800N	49
7100E 7750N	3
7100E 7600N	3
7100E 7550N	1
7100E 7500N	12
7100E 7450N	3
7100E 7400N	3
7300E 8300N	3
7300E 8250N	2
7300E 8200N	2
7300E 8150N	2
7300E 8100N	6
RE 7300E 8100N	3
7350E 8300N	3
7350E 8250N	2
7350E 8200N	2
7350E 8150N	1
7350E 8100N	1
7450E 8300N	1
7450E 8250N	1
7450E 8200N	1
7450E 8150N	2
7450E 8100N	2
7500E 8300N	1
7500E 8250N	1
7500E 8200N	1
7500E 8150N	1
7500E 8100N	1
7700E 9200N	2
7700E 9150N	1
STANDARD AU-S	49

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Au* ppb
7700E 9100N	2
7700E 9050N	1
7700E 9000N	2
7700E 8950N	1
7700E 8900N	2
7700E 8850N	2
7750E 9200N	1
7750E 9150N	7
7750E 9100N	2
7750E 9050N	2
7750E 9000N	2
7750E 8950N	4
7750E 8900N	670
7750E 8850N	130
7850E 9200N	4
RE 7850E 9150N	4
7850E 9150N	4
7850E 9100N	4
7850E 9050N	4
7850E 9000N	3
7850E 8950N	2
7850E 8900N	3
7850E 8850N	4
7900E 9850N	1
7900E 9800N	1
7900E 9750N	1
7900E 9700N	2
7900E 9200N	2
7900E 9150N	2
7900E 9100N	6
7900E 9050N	9
7900E 9000N	2
7900E 8950N	3
7900E 8900N	13
7900E 8850N	9
STANDARD AU-S	46

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Au* ppb
7900E 7900N	2
7900E 7850N	1
7900E 7800N	<1
7900E 7750N	1
7900E 7700N	1
7950E 9850N	1
7950E 9800N	<1
7950E 9750N	<1
RE 7950E 9750N	<1
7950E 9700N	1
7950E 9650N	1
7950E 7900N	3
7950E 7850N	1
7950E 7800N	14
7950E 7750N	1
7950E 7700N	<1
8050E 9850N	1
8050E 9800N	2
8050E 9750N	2
8050E 9700N	1
8050E 9650N	2
8050E 7900N	<1
8050E 7850N	2
8050E 7800N	<1
8050E 7750N	1
8050E 7700N	2
8100E 9850N	2
8100E 9800N	1
8100E 9750N	1
8100E 9700N	2
8100E 9650N	2
8100E 8150N	2
8100E 8100N	3
8100E 8000N	1
8100E 7950N	12
STANDARD AU-S	46

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Au* ppb
8100E 7900N	2
8100E 7900N dup.	15
8100E 7850N	1
8100E 7850N dup.	2
RE 8100E 7850N dup.	3
8100E 7800N	1
8100E 7800N dup.	3
8100E 7750N	1
8100E 7700N	2
8150E 8150N	6
8150E 8100N	320
8150E 8000N	11
8150E 7950N	4
8150E 7900N	9
8150E 7850N	3
8150E 7800N	16
8250E 8150N	2
8250E 8100N	2
8250E 8000N	5
8250E 7950N	3
8250E 7900N	3
8250E 7850N	46
8250E 7800N	4
8300E 8150N	2
8300E 8100N	96
8300E 8000N	5
8300E 7950N	3
8300E 7900N	6
8300E 7850N	19
8300E 7800N	16
8350E 7900N	21
8350E 7850N	24
8350E 7800N	10
8350E 7750N	5
8350E 7700N	4
STANDARD AU-S	48

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Au* ppb
8350E 7650N	2
8450E 7900N	20
8450E 7850N	10
8450E 7800N	1
8450E 7750N	18
8450E 7700N	19
8450E 7650N	15
8500E 8200N	4
8500E 8150N	2
8500E 8100N	1
8500E 8000N	<1
8500E 7950N	1
8500E 7900N	11
8500E 7900N dup.	2
8500E 7850N	15
8500E 7800N	2
8500E 7750N	1
8500E 7700N	20
8500E 7650N	6
8500E 7600N	13
8500E 7550N	52
8500E 7500N	40
8500E 7450N	4
8500E 7400N	18
RE 8500E 7400N	25
8550E 8200N	10
8550E 8150N	16
8550E 8100N	16
8550E 8000N	5
8550E 7950N	35
8550E 7900N	2
8550E 7550N	98
8550E 7500N	5
8550E 7450N	5
8550E 7400N	23
STANDARD AU-S	47

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Au* ppb
8650E 8200N	5
8650E 8150N	2
8650E 8100N	1
8650E 8000N	4
8650E 7950N	2
8650E 7900N	10
8650E 7600N	26
8650E 7550N	10
8650E 7500N	7
8650E 7450N	3
8650E 7400N	4
8700E 8200N	2
8700E 8150N	4
8700E 8100N	11
8700E 8000N	4
8700E 7950N	12
8700E 7900N	7
8700E 7600N	4
RE 8700E 7600N	2
8700E 7550N	4
8700E 7500N	10
8700E 7450N	5
8700E 7400N	10
8900E 8250N	2
8900E 8200N	130
8900E 8150N	5
8900E 8100N	3
8900E 8050N	2
8900E 8000N	6
8950E 8250N	3
8950E 8200N	8
8950E 8150N	6
8950E 8100N	1
8950E 8050N	3
8950E 8000N	<1
STANDARD AU-S	51

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Au* ppb
9050E 8250N	19
9050E 8200N	3
9050E 8150N	4
9050E 8100N	1
9050E 8050N	2
9050E 8000N	2
9100E 8250N	1
9100E 8200N	7
9100E 8150N	10
9100E 8100N	6
9100E 8050N	4
RE 9100E 8050N	1
9100E 8000N	25
9100E 7700N	2
9100E 7650N	9
9100E 7600N	4
9100E 7550N	2
9100E 7500N	2
9100E 7450N	11
9100E 7400N	4
9100E 7350N	11
9150E 7700N	5
9150E 7650N	1
9150E 7600N	13
9150E 7550N	2
9150E 7500N	6
9150E 7450N	1
9150E 7400N	3
9150E 7350N	4
9250E 7700N	5
9250E 7650N	3
9250E 7600N	<1
9250E 7550N	9
9250E 7500N	3
9250E 7450N	2
STANDARD AU-S	47

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Au* ppb
9250E 7400N	3
9250E 7350N	1
9300E 9800N	44
9300E 9750N	8
9300E 9700N	3
9300E 9650N	1
9300E 9600N	9
9300E 9550N	5
9300E 9200N	14
9300E 9150N	5
9300E 9100N	<1
9300E 9050N	2
9300E 9000N	1
9300E 7700N	1
9300E 7650N	1
9300E 7600N	4
9300E 7550N	1
9300E 7500N	2
9300E 7450N	4
9300E 7400N	3
RE 9300E 7400N	2
9300E 7350N	10
9350E 9800N	5
9350E 9750N	6
9350E 9700N	3
9350E 9650N	1
9350E 9600N	4
9350E 9550N	16
9350E 9200N	4
9350E 9150N	4
9350E 9100N	3
9350E 9050N	3
9350E 9000N	5
9450E 9800N	4
9450E 9750N	11
STANDARD AU-S	47

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Au* ppb
9450E 9700N	4
RE 9450E 9700N	4
9450E 9650N	3
9450E 9600N	4
9450E 9550N	3
9450E 9200N	3
9450E 9150N	2
9450E 9100N	1
9450E 9050N	12
9450E 9000N	4
9500E 10000N	2
9500E 9900N	3
9500E 9850N	4
9500E 9800N	6
9500E 9750N	4
9500E 9700N	12
9500E 9650N	4
9500E 9600N	5
9500E 9550N	2
9500E 9200N	6
9500E 9100N	3
9500E 9050N	2
9500E 9000N	2
9500E 7750N	6
9500E 7700N	4
9500E 7650N	3
9500E 7600N	4
9500E 7550N	4
9500E 7300N	4
9500E 7250N	8
9500E 7200N	9
9500E 7150N	5
9500E 7100N	5
STANDARD AU-S	52

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Au* ppb
9500E 6850N	2
9500E 6800N	4
9500E 6750N	2
9500E 6700N	2
9500E 6650N	50
9500E 6600N	5
9500E 6550N	14
9500E 6500N	6
9500E 6450N	3
9500E 6400N	14
9500E 6350N	5
RE 9500E 6350N	3
9500E 6300N	6
9500E 6250N	9
9500E 6200N	1
9500E 6150N	2
9500E 6100N	7
9500E 6050N	6
9500E 6000N	6
9550E 10000N	5
9550E 9900N	11
9550E 9850N	6
9550E 7750N	8
9550E 7700N	3
9550E 7650N	2
9550E 7600N	2
9550E 7550N	2
9550E 7300N	2
9550E 7250N	4
9550E 7200N	12
9550E 7150N	6
9550E 7100N	5
9650E 10000N	3
STANDARD AU-S	47

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Au* ppb
9650E 9900N	3
9650E 9850N	2
9650E 7750N	2
9650E 7700N	1
9650E 7650N	5
9650E 7600N	2
9650E 7550N	1
9650E 7300N	1
9650E 7250N	15
9650E 7200N	3
9700E 10000N	2
9700E 9900N	7
9700E 9850N	3
9700E 7750N	6
9700E 7700N	9
9700E 7650N	20
9700E 7600N	2
9700E 7550N	3
RE 9700E 7550N	2
9700E 7300N	2
9700E 7250N	13
9700E 7200N	7
9700E 7150N	2
9700E 7100N	7
9700E 6850N	6
9700E 6800N	3
9700E 6750N	11
9700E 6700N	7
9700E 6650N	5
9700E 6600N	5
9700E 6550N	4
9700E 6500N	2
STANDARD AU-S	49

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Au* ppb
9700E 6300N	4
9700E 6250N	5
9700E 6200N	3
9700E 6150N	2
9700E 6100N	2
9700E 6050N	35
9700E 6000N	10
9750E 6600N	2
9750E 6550N	4
9750E 6500N	7
9750E 6450N	3
9750E 6400N	3
9800E 12100N	2
9800E 12060N	5
9800E 12050N	5
9800E 12000N	2
9800E 11850N	5
RE 9800E 11850N	3
9800E 11800N	1
9800E 11750N	2
9800E 11700N	11
9800E 11650N	5
9800E 11600N	3
9800E 11550N	2
9800E 11500N	5
9800E 11450N	4
9800E 11400N	2
9800E 11350N	1
9800E 11300N	3
9800E 11250N	2
9800E 11200N	3
9800E 11150N	11
9800E 11100N	2
9800E 10950N	3
9800E 10900N	3
STANDARD AU-S	48

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Au* ppb
9800E 10850N	10
9800E 10800N	11
9800E 10750N	2
9800E 10700N	4
9800E 10650N	5
9800E 10600N	2
9800E 10550N	1
9800E 10500N	1
9800E 10450N	1
9800E 10400N	8
9800E 10350N	5
9800E 10300N	2
9800E 10250N	4
9800E 10200N	3
9800E 10150N	3
9800E 10100N	<1
9800E 10050N	1
9800E 10000N	4
RE 9800E 10000N	5
9850E 6600N	6
9850E 6550N	6
9850E 6500N	10
9850E 6450N	8
9850E 6400N	8
9900E 6600N	8
9900E 6550N	9
9900E 6500N	5
9900E 6450N	26
9900E 6400N	10
10200E 12100N	2
10200E 12075N	7
10200E 12050N	4
10200E 12000N	1
10200E 11950N	2
10200E 11900N	2
STANDARD AU-S	51

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Au* ppb
10200E 11850N	2
10200E 11800N	1
10200E 11750N	3
10200E 11700N	1
10200E 11650N	1
10200E 11600N	1
10200E 11550N	1
10200E 11500N	1
10200E 11450N	2
10200E 11400N	5
10200E 11350N	3
10200E 11300N	1
10200E 11250N	2
10200E 11200N	1
10200E 11150N	54
10200E 11100N	2
10200E 11000N	3
10200E 10950N	2
RE 10200E 10950N	4
10200E 10900N	1
10200E 10850N	3
10200E 10800N	2
10200E 10750N	4
10200E 10700N	3
10200E 10650N	2
10200E 10600N	6
10200E 10550N	3
10200E 10500N	3
10200E 10450N	3
10200E 10400N	3
10200E 10350N	2
10200E 10300N	5
10200E 10250N	10
10200E 10200N	8
STANDARD AU-S	48

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Au* ppb
11000E 11600N	5
11000E 11550N	4
11000E 11500N	8
11000E 11450N	2
11000E 11400N	4
11000E 11350N	2
11000E 11300N	3
11000E 11250N	5
RE 11000E 11250N	11
11000E 11200N	5
11000E 11150N	10
11000E 11125N	3
11000E 11100N	8
11400E 12100N	3
11400E 12050N	19
11400E 12000N	3
11400E 11950N	6
11400E 11900N	5
11400E 11850N	21
11400E 11800N	2
11400E 11750N	1
11400E 11700N	3
11400E 11650N	2
11400E 11550N	3
11400E 11500N	3
11400E 11450N	2
11400E 11400N	3
11400E 11350N	2
11400E 11300N	5
11400E 11250N	2
11400E 11200N	1
11400E 11150N	2
11400E 11100N	3
11800E 12100N	1
11800E 12050N	2
STANDARD AU-S	54

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Au* ppb
10200E 10150N	3
10200E 10100N	1
10200E 10050N	2
10200E 10000N	1
RE 10200E 10000N	2
10600E 12100N	2
10600E 12050N	4
10600E 12000N	5
10600E 11950N	1
10600E 11900N	7
10600E 11850N	3
10600E 11800N	3
10600E 11750N	2
10600E 11700N	1
10600E 11650N	1
10600E 11600N	4
10600E 11550N	6
10600E 11500N	3
10600E 11450N	3
10600E 11350N	3
10600E 11300N	25
10600E 11250N	4
10600E 11200N	5
10600E 11150N	7
10600E 11100N	1
11000E 12100N	1
11000E 12050N	3
11000E 12000N	3
11000E 11950N	2
11000E 11900N	1
11000E 11850N	3
11000E 11800N	1
11000E 11750N	1
11000E 11700N	2
11000E 11650N	2
STANDARD AU-S	48

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Au* ppb
11800E 12000N	3
11800E 11950N	1
11800E 11900N	1
11800E 11850N	<1
11800E 11800N	5
11800E 11750N	10
11800E 11700N	1
11800E 11650N	3
11800E 11600N	3
11800E 11550N	11
11800E 11500N	6
11800E 11450N	1
RE 11800E 11450N	4
11800E 11400N	3
11800E 11350N	3
11800E 11300N	2
11800E 11250N	4
11800E 11200N	7
11800E 11150N	2
11800E 11100N	3
STANDARD AU-S	49

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Cordilleran Engineering Ltd. PROJECT PEN #4 File # 94-2017 Page 1

1980 - 1055 W. Hastings S, Vancouver BC V6E 2E9 Submitted by: E.A. Balon

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
PEN94-R1	5	24	51	27	3.6	7	1	55	.98	26	<5	<2	<2	3	.2	4	13	8	.01	.003	<2	8	.01	42	<.01	2	.10	.01	.05	2	1530
PEN94-R2	3	11	11	19	<.1	8	1	250	.66	12	<5	<2	<2	13	<.2	3	<2	9	.24	.014	2	10	.09	17	.05	<2	.21	.04	.03	1	25
PEN94-R3	5	9	71	75	.5	14	<1	80	.43	15	<5	<2	<2	<1	.3	4	<2	<2	.01	.001	<2	14	<.01	5	<.01	<2	.02	<.01	<.01	<1	18
PEN94-R4	3	5	12	6	.1	8	<1	53	.26	8	<5	<2	<2	1	<.2	2	<2	<2	<.01	.001	<2	9	<.01	<2	<.01	<2	.02	<.01	.01	1	25
PEN94-R5	3	27	11	25	.5	6	3	211	1.97	4	<5	<2	<2	7	<.2	2	<2	22	.41	.039	6	7	.24	26	.15	<2	.56	.05	.23	14	12
PEN94-R6	83	68	958	112	5.3	5	1	170	2.52	4	<5	4	2	4	8.1	2	9	3	.03	.015	12	4	.04	24	<.01	<2	.29	.03	.14	1	2620
PEN94-R7	3	17	8	76	.5	6	1	288	2.12	21	<5	<2	<2	32	.7	2	<2	17	.30	.049	2	5	.29	31	.06	<2	1.01	.10	.12	<1	48
PEN94-R8	5	17	26	8	8.8	11	1	74	.49	8	<5	5	<2	1	.2	3	30	<2	.01	.001	<2	11	.01	9	<.01	<2	.04	.01	.01	7	3590
PEN94-R9	9	608	11	12	41.1	13	1	77	2.00	24	<5	<2	<2	7	<.2	5	4	4	.02	.010	3	13	.02	66	<.01	2	.17	.02	.05	2	2470
RE PEN94-R9	9	600	13	12	42.4	13	1	83	2.01	25	<5	<2	<2	7	<.2	6	2	3	.02	.010	3	12	.02	65	<.01	2	.17	.02	.05	1	2330
PEN94-R10	4	12	7	4	.3	10	1	56	.42	4	<5	<2	<2	1	<.2	2	<2	3	.01	.001	<2	12	.02	5	<.01	2	.05	.01	<.01	2	49
STANDARD C/AU-R	20	63	39	129	6.8	72	33	1034	3.96	44	14	9	38	53	17.1	16	19	61	.50	.090	41	58	.85	177	.09	33	1.88	.07	.15	13	480

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: P1 ROCK P2 SOIL AU* ANALYSIS BY ACID LEACH/AA FROM 20 GM SAMPLE.
Samples beginning 'RE' are duplicate samples.

DATE RECEIVED: JUL 8 1994 **DATE REPORT MAILED:** July 14/94. **SIGNED BY** ..... D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

SAMPLE#	AU* ppb (10gm)
PRSL94-1 10E	5
PRSL94-1 20E	3
PRSL94-1 30E	3
RE PRSL94-1 30E	2
PRSL94-1 10W	930
PRSL94-1 20W	4
PRSL94-1 30W	2
5600E 9900N (D)	2
6400E 11050N (D)	1
STANDARD AU-S	46

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANAL S CERTIFICATE

Cordilleran Engineering Ltd. (Merritt) PROJECT PEN #5 File # 94-2086

Bag 5000, Merritt BC V0K 2B0 Submitted by: E.A. Balon

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
PEN94-R11	7	15	7	21	.3	4	1	251	1.14	3	<5	<2	<2	5	<.2	<2	<2	3	.22	.015	3	4	.07	27	.04	2	.44	.04	.14	2	15
PEN94-R12	14	18	223	111	.9	4	2	129	1.69	27	<5	<2	2	5	2.1	<2	<2	3	.09	.034	7	4	.10	44	.01	2	.66	.03	.23	1	140
RE PEN94-R12	14	18	223	110	1.0	3	2	120	1.67	24	<5	<2	2	5	1.8	<2	<2	3	.09	.033	7	4	.10	44	.01	2	.65	.03	.23	1	150
PEN94-R12C	19	15	136	83	.8	1	2	389	2.70	11	<5	<2	<2	9	.3	<2	<2	4	.08	.029	19	1	.09	33	<.01	2	.87	.02	.20	1	58
PEN94-R13	1	26	<2	29	.1	9	7	215	1.96	21	<5	<2	<2	68	<.2	<2	<2	65	.65	.059	<2	14	.47	872	.13	<2	1.52	.15	.44	<1	3
PEN94-R14	1	29	2	47	<.1	6	11	493	3.72	21	<5	<2	3	36	<.2	<2	<2	129	.50	.091	5	12	1.23	183	.13	<2	2.00	.10	.54	<1	5
PEN94-R15	3	50	11	6	1.3	2	1	76	2.55	6	<5	2	2	10	<.2	<2	8	4	.06	.024	4	3	.04	102	.06	2	.43	.04	.18	2	2430
PEN94-R15C	3	81	11	12	.7	3	1	108	2.56	8	<5	<2	2	16	<.2	<2	5	7	.11	.033	7	4	.12	63	.09	2	.57	.04	.14	98	1160
PEN94-R16	10	7	7	3	1.0	10	1	65	.70	<2	<5	<2	<2	2	<.2	<2	19	3	.02	.003	<2	13	.01	10	<.01	4	.06	.01	.01	324	35
PEN94-R17	282	27548	121	410	18.7	9	260	78	16.33	58	9	<2	3	3	2.6	<2	28	12	.03	<.001	<2	11	.08	10	<.01	2	.22	<.01	.09	3	1070
STANDARD C/AU-R	20	58	38	123	6.6	72	32	1032	3.96	42	14	6	35	50	17.0	16	19	60	.50	.091	41	58	.91	184	.08	34	1.88	.06	.15	12	480

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: P1 ROCK P2 TO P6 SOIL AU* ANALYSIS BY ACID LEACH/AA FROM 20 GM SAMPLE.
Samples beginning 'RE' are duplicate samples.

DATE RECEIVED: JUL 13 1994 **DATE REPORT MAILED:** July 19/94 **SIGNED BY** C. Leong ..D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

SAMPLE#	Au* ppb
6650E 8400N (D)	4
7050E 7800N (D)	2
8100E 9150N	46
8100E 9100N	9
8100E 9050N	6
8100E 9000N	3
8100E 8950N	4
8100E 8900N	9
8100E 8850N	22
8150E 9150N	6
8150E 9100N	12
8150E 9050N	10
8150E 9000N	6
8150E 8950N	13
8150E 8900N	11
8150E 8850N	10
8250E 9150N	4
8250E 9100N	17
8250E 9050N	4
8250E 9000N	8
8250E 8950N	5
8250E 8900N	10
8250E 8850N	4
8300E 9150N	5
RE 8300E 9150N	3
8300E 9100N	3
8300E 9050N	2
8300E 9000N	7
8300E 8950N	6
8300E 8900N	82
8300E 8850N	5
8350E 9050N	5
8350E 9000N	95
8350E 8950N	73
8350E 8900N	9
STANDARD AU-S	48

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Au* ppb
8350E 8850N	5
8450E 9050N	9
RE 8450E 9050N	10
8450E 9000N	4
8450E 8950N	6
8450E 8900N	3
8450E 8850N	2
8500E 9050N	2
8500E 9000N	8
8500E 8950N	6
8500E 8900N	4
8500E 8850N	4
9550E 4450N	4
9550E 4400N	2
9550E 4350N	2
9550E 4300N	4
9550E 4250N	12
9550E 4200N	1
9550E 4150N	36
9550E 4100N	8
9650E 4450N	2
9650E 4400N	3
9650E 4350N	22
9650E 4300N	2
9650E 4250N	3
9650E 4200N	2
9650E 4150N	8
9650E 4100N	4
9700E 4450N	2
9700E 4400N	1
9700E 4350N	2
9700E 4300N	4
9700E 4250N	2
9700E 4200N	5
9700E 4150N	1
STANDARD AU-S	47

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Au* ppb
9700E 4100N	2
9750E 4250N	3
9750E 4200N	3
9750E 4150N	6
9750E 4100N	2
9750E 4050N	2
9850E 4250N	5
9850E 4150N	3
9850E 4100N	2
9850E 4050N	6
9900E 4250N	6
9900E 4200N	3
9900E 4150N	3
9900E 4100N	2
9900E 4050N	3
9950E 4250N	2
RE 9950E 4250N	1
9950E 4200N	20
9950E 4150N	1
9950E 4100N	5
9950E 4050N	2
10050E 4250N	5
10050E 4200N	2
10050E 4150N	3
10050E 4100N	1
10050E 4050N	1
10100E 4650N	2
10100E 4600N	1
10100E 4550N	9
10100E 4500N	2
10100E 4450N	2
10100E 4250N	2
10100E 4200N	1
10100E 4150N	3
STANDARD AU-S	45

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	AU* ppb
10100E 4100N	4
10100E 4050N	1
RE 10100E 4050N	1
10150E 4650N	4
10150E 4600N	1
10150E 4550N	3
10150E 4500N	3
10150E 4450N	2
10250E 4650N	2
10250E 4600N	2
10250E 4550N	2
10250E 4500N	4
10250E 4450N	4
10300E 4650N	10
10300E 4600N	2
10300E 4550N	1
10300E 4500N	18
10300E 4450N	3
10500E 4300N	3
10500E 4250N	12
10500E 4200N	20
10500E 4000N	2
10550E 4300N	1
10550E 4250N	2
10550E 4200N	2
10550E 4000N	<1
10650E 4300N	7
10650E 4250N	140
10650E 4200N	3
10650E 4000N	4
10700E 4300N	2
10700E 4250N	3
10700E 4200N	9
10700E 4000N	5
11100E 4350N	240
STANDARD AU-S	48

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Au* ppb
11100E 4300N	4
11100E 4250N	10
11100E 4000N	10
11150E 4350N	6
11150E 4300N	9
11150E 4250N	8
11150E 4000N	7
11250E 4350N	5
11250E 4300N	8
RE 11250E 4300N	14
11250E 4250N	2
11250E 4000N	3
11300E 4350N	2
11300E 4300N	3
11300E 4250N	2
11300E 4000N	3
STANDARD AU-S	50

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Cordilleran Engineering Ltd. PROJECT PEN #6 File # 94-2625

1980 • 1055 W. Hastings S, Vancouver BC V6E 2E9 Submitted by: E.A. Balon

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
PEN94-R18	3	17	6	9	.6	8	1	112	1.03	3	<5	<2	<2	2	.2	2	<2	2	.03	.005	2	10	.05	14	.01	<2	.15	.01	.06	5	61
PEN94-R19	3	11	3	8	.2	10	1	243	.82	5	<5	<2	<2	23	.2	3	<2	5	.12	.006	<2	13	.07	898	.01	2	.18	.02	.05	4	7
RE PEN94-R19	4	11	2	9	<.1	11	1	242	.85	4	<5	<2	<2	24	.3	2	<2	6	.12	.005	<2	13	.07	924	.01	<2	.19	.02	.06	3	13
PEN94-R20	16	75	<2	6	.6	6	4	176	2.93	46	<5	8	<2	4	.3	2	58	12	.04	.007	2	11	.08	55	.03	2	.27	.02	.11	273	7780
PEN94-R21	7	31	<2	2	.1	11	1	66	1.10	12	<5	<2	<2	1	.2	2	8	3	.01	.003	<2	12	.01	5	<.01	<2	.03	<.01	.01	167	1490
PEN94-R22	4	34	76	6	8.0	11	1	83	.96	4	<5	22	<2	1	.2	15	1054	5	.02	.003	<2	19	.04	29	.01	<2	.13	.01	.04	7	12700
PEN94-R23	9	21	2	31	.5	4	1	329	2.20	7	<5	<2	<2	3	<.2	3	14	5	.06	.019	7	4	.16	42	.01	2	.37	.05	.06	4	77
STANDARD C/AU-R	18	58	37	128	6.8	74	30	1035	3.96	44	16	7	36	49	17.2	15	20	60	.50	.091	40	55	.90	188	.08	33	1.88	.06	.15	12	570

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: ROCK AU* ANALYSIS BY ACID LEACH/AA FROM 20 GM SAMPLE. Samples beginning 'RE' are duplicate samples.

DATE RECEIVED: AUG 12 1994 **DATE REPORT MAILED:** Aug 17/94 **SIGNED BY** ..... D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL/ASS CERTIFICATE

Cordilleran Engineering Ltd. PROJECT PEN #7/~~CREST #4~~ File # 94-3042

1980 - 1055 W. Hastings S, Vancouver BC V6E 2E9 Submitted by: Paul Conroy

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Ag** oz/t	Au** oz/t
PE941-VN1	3	27	2	1	3.6	5	2	66	.84	13	<5	15	<2	2	<.2	<2	14	4	.02	.002	<2	9	.02	11	<.01	<2	.08	.01	.02	15	.09	.152
PE941-VN2	3	54	2	7	.4	4	3	134	1.61	10	<5	6	<2	5	<.2	<2	47	14	.07	.009	2	8	.13	52	.03	2	.34	.02	.10	135	.03	.362
~~GR941-GRAB1~~	~~15~~	~~56~~	~~48~~	~~659~~	~~2.7~~	~~5~~	~~5~~	~~179~~	~~2.98~~	~~9~~	~~<5~~	~~<2~~	~~2~~	~~31~~	~~34.8~~	~~3~~	~~9~~	~~9~~	~~.54~~	~~.024~~	~~3~~	~~6~~	~~.15~~	~~29~~	~~.03~~	~~2~~	~~.66~~	~~.05~~	~~.10~~	~~1107~~	~~.13~~	~~.005~~

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: ROCK AG** + AU** BY FIRE ASSAY FROM 1 A.T. SAMPLE.

DATE RECEIVED: SEP 7 1994 **DATE REPORT MAILED:** Sept 13/94 **SIGNED BY.** C. Leong .D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Cordilleran Engineering Ltd. PROJECT PEN #8 File # 94-3452 Page 1

1980 - 1055 W. Hastings S, Vancouver BC V6E 2E9 Submitted by: Paul Conroy

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb	SAMPLE lb
PE941-1	3	61	37	88	<.1	9	16	1361	4.41	84	<5	<2	3	15	.5	<2	7	70	.33	.031	11	16	.67	256	.01	4	1.76	.02	.14	4	12	13
PE941-8	1	133	3	26	.3	4	25	273	4.06	4	<5	<2	<2	83	<.2	<2	5	79	1.99	.129	2	6	.95	72	.14	3	3.08	.25	.18	3	15	12
PE941-9	2	67	5	38	.2	2	22	214	2.77	7	<5	<2	<2	36	<.2	<2	6	65	.64	.083	3	1	.69	118	.17	<2	1.78	.16	.64	<1	110	11
PE941-10	1	59	3	33	.2	8	15	302	3.11	7	<5	<2	2	40	.5	2	8	85	1.27	.093	2	29	1.15	239	.24	2	2.03	.11	.30	<1	10	7
PE941-11	<1	90	3	24	.2	10	17	288	3.16	10	<5	<2	<2	111	<.2	<2	10	93	2.02	.076	2	17	1.12	253	.17	4	4.26	.33	.31	<1	27	14
PE941-12	<1	102	<2	25	.3	16	20	267	3.26	11	<5	<2	2	101	.4	3	<2	90	2.38	.058	2	19	1.04	174	.14	4	3.94	.27	.14	<1	10	8
PE942-1	1	67	<2	65	<.1	7	10	475	3.50	285	<5	<2	3	24	.2	<2	<2	46	.48	.076	11	8	.48	283	.05	3	1.45	.08	.44	<1	19	16
PE942-2	1	58	<2	65	<.1	4	9	426	3.33	177	<5	<2	<2	37	.7	3	2	63	.72	.087	8	11	.95	426	.18	<2	1.98	.14	.66	<1	28	10
RE PE942-2	<1	56	2	64	<.1	4	8	421	3.31	175	<5	<2	2	37	.8	<2	4	62	.71	.086	8	11	.92	421	.18	3	1.96	.14	.65	<1	39	-
PE942-3	4	26	19	65	<.1	4	8	268	3.72	429	<5	<2	4	8	.5	3	<2	48	.21	.031	11	12	.80	52	.02	4	1.48	.03	.08	<1	4	8
PE942-4	2	20	3	42	<.1	6	6	263	2.14	56	<5	<2	3	9	.5	3	<2	39	.21	.026	7	13	.53	135	.08	<2	1.07	.04	.26	<1	2	8
PE942-5	4	29	47	101	<.1	3	8	302	2.84	520	<5	<2	4	9	.8	3	<2	34	.22	.029	10	11	.23	96	.01	<2	.93	.02	.12	<1	4	9
PE942-6	2	29	14	87	<.1	1	8	477	2.93	487	<5	<2	4	12	.7	4	4	31	.27	.032	16	12	.39	112	.01	<2	1.33	.03	.17	<1	6	6
STANDARD C/AU-R	18	57	39	128	6.6	73	31	1040	3.96	41	16	7	36	50	17.2	18	17	60	.51	.091	42	58	.90	182	.08	33	1.88	.06	.15	9	505	-

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: ROCK AU* ANALYSIS BY ACID LEACH/AA FROM 20 GM SAMPLE. Samples beginning 'RE' are duplicate samples.

DATE RECEIVED: SEP 29 1994 **DATE REPORT MAILED:** Oct 14/94 **SIGNED BY.** C. Leong .D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au** oz/t	SAMPLE lb
PE941-2	4	67	4	17	.2	4	3	163	2.20	31	<5	<2	<2	7	<.2	<2	6	25	.09	.013	3	9	.34	104	.06	<2	.72	.02	.21	8	.045	12
PE941-3	6	55	4	6	2.0	6	2	74	1.42	26	<5	23	<2	4	.2	3	128	9	.03	.007	<2	9	.04	33	.01	3	.20	.01	.04	247	1.349	13
RE PE941-3	7	56	2	6	2.3	7	2	78	1.45	28	<5	24	<2	4	<.2	3	131	10	.03	.006	<2	9	.04	29	.01	<2	.21	.01	.04	250	1.401	-
PE941-4	3	62	2	17	.3	5	3	163	2.21	18	<5	3	2	7	<.2	<2	5	27	.11	.013	3	12	.38	134	.07	2	.72	.02	.26	67	.036	13
PE941-5	4	101	7	20	.2	7	7	164	2.69	18	<5	<2	3	9	.3	<2	<2	31	.17	.020	6	15	.33	162	.10	2	.79	.04	.25	5	.004	10
PE941-6	4	39	4	6	.2	5	3	87	1.19	23	<5	<2	<2	10	<.2	<2	<2	15	.22	.009	<2	8	.11	51	.03	<2	.42	.03	.07	491	.004	16
PE941-7	6	54	<2	6	.2	6	3	116	1.70	53	<5	<2	<2	3	.2	<2	7	11	.03	.005	<2	7	.03	23	.01	<2	.16	.01	.03	60	.030	13
PE941-13	1	72	<2	43	<.1	9	13	383	2.25	41	<5	<2	2	16	.4	2	<2	42	.36	.026	8	13	.58	300	.11	<2	1.73	.05	.35	4	.001	8
STANDARD C/AU-1	18	56	39	128	6.6	71	32	1054	3.96	43	22	6	35	50	17.6	14	18	60	.49	.090	39	58	.93	182	.08	35	1.88	.06	.15	11	.098	-

Sample type: ROCK. Samples beginning 'RE' are duplicate samples.
AU** BY FIRE ASSAY FROM 1 A.T. SAMPLE.

Fairfield Minerals Ltd.

Hidden Lake

Brenda Lake

BRENDA MINE
OPEN PIT
(Copper -- Molybdenum Deposit)

1994
TRENCH AREA
(Plate 2)

10200 E
4550 N
scale 1 : 1,000

Pen Reconnaissance Soil Line 94-1 (PRSL94-1)
in curvilinear depression E/W of
soil station 10,200E-4550N, 355 ppb Au

GEOLOGICAL BRANCH
ASSESSMENT REPORT

23,919

LEGEND

SOIL SAMPLE SITES

1994	1990 to 1993	
.	.	LESS THAN OR EQUAL TO 10 PPB AU
△	□	GREATER THAN 10 PPB AU
△	□	GREATER THAN 20 PPB AU
△	□	GREATER THAN 50 PPB AU
△	□	GREATER THAN 100 PPB AU

NOTE: 1994 VALUES LESS THAN 10 PPB NOT PLOTTED

REFER TO FIGURE 2 FOR GRID LOCATION

PROFESSIONAL ENGINEER
E.H. PARKER
BRITISH COLUMBIA
GEOSCIENTIST

PEN PROPERTY

Nicola, Osoyoos and Similkameen Mining Divisions
NTS 92H/16E AND 82E/13W, B.C.

AU SOIL GEOCHEMISTRY

SCALE 1 : 10,000

Drawn by WJ
February, 1995

Plate 1

CORDILLERAN ENGINEERING LTD.
1980 -- 1055 West Hastings Street Vancouver, British Columbia V6E 2E9

8950 9000 9050 9100 9150

9750

9700

9650

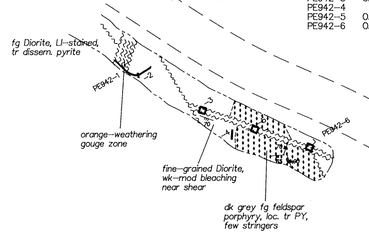
9000E 9700N

9050E 9650N

TRENCH PE94-2

SIGNIFICANT RESULTS

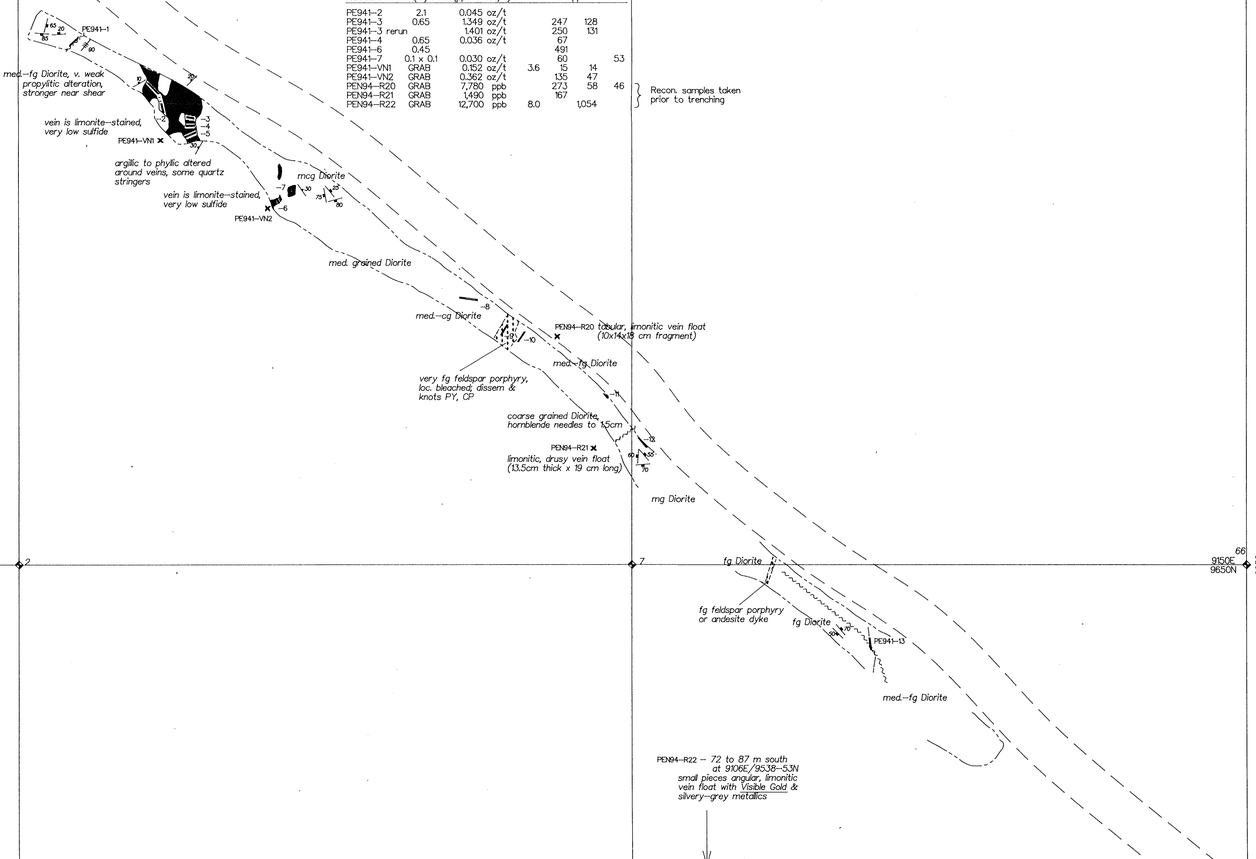
SAMPLE NUMBER	LENGTH (m)	Au (oz/t)	W	Bi	As
			in ppm		
PE942-1	2.5				285
PE942-2	1.1				177
PE942-3 re					175
PE942-3	0.5 x 0.5				429
PE942-4	0.8				56
PE942-5	0.5 x 0.5				520
PE942-6	0.5 x 0.5				487



TRENCH PE94-1

SIGNIFICANT RESULTS

SAMPLE NUMBER	LENGTH (m)	Au (ppb or oz/t)	Ag	W	Bi	As	
				in ppm			
PE941-2	2.1	0.045 oz/t					
PE941-3	0.65	1.349 oz/t		247	128		
PE941-3 rerun		1.401 oz/t		250	131		
PE941-4	0.65	0.036 oz/t		67			
PE941-6	0.45			491			
PE941-7	0.1 x 0.1	0.030 oz/t		60		53	
PE941-VN1	GRAB	0.152 oz/t	3.6	15	14		
PE941-VN2	GRAB	0.362 oz/t		135	47		
PEN94-R20	GRAB	7,780 ppb		273	58	46	Recon. samples taken prior to trenching
PEN94-R21	GRAB	1,490 ppb		167			
PEN94-R22	GRAB	12,700 ppb	8.0		1,054		



LEGEND

Middle to Upper Triassic Nicola Group (Peachland Creek Formation ?)

- Feldspar Porphyry — fine to very fine-grained, med. grey in colour; numerous plagioclase phenocrysts; varying amounts dissem. pyrite +/- chalcopyrite
- Diorite — fine to coarse-grained, hornblende rich with local clots acicular, radiating hornblende; minor disseminated pyrite
- Quartz vein, stringers
- Shears
- Attitude, fracture
- " , shear
- " , vein
- Panel Sample
- Chip/channel sample
- Grab sample
- 7900E 6200N 50 — Soil sample station, coordinates, results (ppb Au) — 1993 sampling (where surveyed)
- Trench outline
- Roadway

GEOLOGICAL BRANCH
ASSESSMENT REPORT

23,919

Fairfield Minerals Ltd.

PEN PROPERTY
Similkameen, Nicola, and Osoyoos M.D. NTS 92I/16E & 82E/13W

PLAN OF TRENCHES PE94-1 & PE94-2
SCALE 1 : 250

Drawn by PWO	Plate 2
February, 1995	

CORDILLERAN ENGINEERING LTD.
1050 - 1055 West Hastings Street Vancouver, British Columbia V6E 2E9

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA PETER W. OGRYDZIAK

8950 9000 9050 9100 9150