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1989  
GEOCHEMICAL, GEOPHYSICAL & TRENCHING REPORT

On the DILL CLAIM GROUP  
 Similkameen Mining Division, B.C.  
 NTS: 92H/9W,16W; Lat 49°45'N; Long 120°25'W

JANUARY 1990. (BC '89 ASSESSMENT)

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GEOLOGICAL BRANCH  
 ASSESSMENT REPORT

19,593

**1989 GEOCHEMICAL, GEOPHYSICAL & TRENCHING REPORT**

**ON THE DILL CLAIM GROUP**

Similkameen Mining Division, B.C.  
Latitude 49°45'N; Longitude 120°25'W  
NTS: 92H/9W, 16W

For

**FAIRFIELD MINERALS LTD.**  
Vancouver, British Columbia

By

John Cormier, B.Sc.  
Geologist

**CORDILLERAN ENGINEERING LTD.**  
1980-1055 W. Hastings St.  
Vancouver, B.C. V6E 2E9

Date Submitted: January, 1990  
Field Period: June 12 to August 11, 1989

## TABLE OF CONTENTS

Tab		Page
1.0	<b>SUMMARY AND CONCLUSIONS</b> .....	1
2.0	<b>RECOMMENDATIONS</b> .....	3
3.0	<b>INTRODUCTION</b> .....	4
3.1	Location and Physiography .....	4
3.2	Claim Data .....	4
3.3	History .....	7
3.4	1989 Exploration Program .....	8
4.0	<b>GEOLOGY</b> .....	9
4.1	Regional Geology .....	9
4.2	Property Geology and Mineralization .....	9
5.0	<b>GEOCHEMISTRY</b> .....	11
5.1	Sampling Procedure .....	11
5.2	Grid Results .....	11
5.3	Reconnaissance Results .....	12
6.0	<b>GEOPHYSICS</b> .....	14
7.0	<b>TRENCHING</b> .....	15
7.1	Trench Operations .....	15
7.2	Trench Results .....	15
7.2.1	South Zone .....	15
7.2.2	North Zone .....	16
7.2.3	Trench No. 9 .....	17
8.0	<b>PERSONNEL</b> .....	18
9.0	<b>STATEMENT OF EXPENDITURES</b> .....	19
10.0	<b>REFERENCES</b> .....	20
11.0	<b>STATEMENT OF QUALIFICATIONS</b> .....	21
12.0	<b>GEOPHYSICAL REPORT.</b>	
13.0	<b>ANALYTICAL RESULTS</b>	

Table of contents

Page

FIGURES

<u>Figure 1</u>	Property Location Map .....	5
<u>Figure 2</u>	Claim and Grid Location .....	6
<u>Figure 3</u>	Regional Geology .....	10
<u>Figure 4</u>	Reconnaissance Sample and Trench Locations .....	13

TABLES

<u>Table 1</u>	Claim Status as at December 1, 1989 .....	7
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PLATES  
(in pocket)

		<u>Scale</u>
<u>Plate 1</u>	Au/Cu Soil Geochemistry - North Grid .....	1:5000
<u>Plate 2</u>	Au/Cu Soil Geochemistry - South Grid .....	1:5000
<u>Plate 3</u>	Trench Geology - South Zone Trenches .....	1:1000
<u>Plate 4</u>	Trench Geology - North Zone Trenches .....	1:1000
<u>Plate 5</u>	Trench Geology - D89-9 .....	1:500



The Dill property comprises 28 claims (209 units) located 47 kilometres southeast of Merritt, B.C. within the Similkameen Mining Division. The claims, staked during 1988 and 1989 are owned 100 percent by Fairfield Minerals Ltd. and are subject to an option agreement with Placer Dome Inc.

Logging roads provide excellent access to all parts of the property. The terrain consists of rolling forested hills on an upland plateau.

Previous exploration in the Dill area focussed on copper mineralization, with mapping, soil sampling, geophysical surveys, trenching and drilling conducted between 1963 and 1983. In 1987 and 1988, the area was re-examined to evaluate its gold potential utilizing soil sampling, prospecting and rock sampling within the area of the Dill 1 claim.

The 1989 program continued to evaluate the gold potential with grid soil geochemical sampling, an I.P. geophysical survey, prospecting and trenching.

The claims cover the contact between Upper Triassic Nicola Group volcanic rocks on the west and a granite batholith of Jurassic age on the east. The volcanic rocks are strongly fractured with local zones of carbonate, silica or clay alteration. Sulphide minerals found as disseminations or within quartz or calcite veinlets include pyrite, chalcopyrite and rarely pyrrhotite.

A total of 1078 soil samples were collected over two wide-spaced grids on the north and south parts of the property. Subsequently, 591 fill-in soil samples were taken around sites which returned 20 ppb gold or higher. Several single point gold anomalies were defined on the north grid and three anomalous areas measuring 1200m by 300m, 400m by 50m and 600m by 150m were outlined on the south grid.

An I.P. survey totalling 7.2 kilometres was undertaken in areas of anomalous gold geochemistry. Six zones of moderate to strong I.P. response correlate reasonably well with soil anomalies. Trenches in these areas revealed disseminated sulphide mineralization and small quartz veins.

Twelve trenches totalling 1886 metres were excavated in two main areas, the North and South Zones, to test soil geochemical anomalies. Mapping and sampling revealed several quartz veins with various orientations, some containing anomalous gold concentrations. A rock chip sample across one of the quartz veins

and adjoining altered wallrock returned a value of 7.42 oz/ton gold over 1.5 metres. Grab samples from narrow quartz veins in a trench 200 metres to the east gave values up to 17,225 ppb (0.50 oz/ton) gold.

Most of the quartz veins exposed in the trenches were 1 to 2 cm thick although one vein measuring 70 cm was discovered. The majority of the veins are associated with sheared, strongly clay altered zones in volcanic rocks. These zones may represent large fault structures which were receptive to circulating hydrothermal solutions that precipitated the gold-bearing quartz veins and altered the surrounding rocks. There is good potential to locate additional structures containing high grade gold over significant widths on the Dill property.

Areas of anomalous gold geochemistry on the southern soil grid are underlain by granitic rocks near the volcanic contact. A similar setting on the adjacent Elk property is host to significant gold mineralization, indicating that the Dill claims overlay a good environment for gold-bearing veins.

Continued exploration is warranted.

\*\*\*\*





2.0

R E C O M M E N D A T I O N S

Soil sampling spaced at 200m by 50m should be conducted on the unsampled portions of the Dill property. A total of 3400 samples is estimated. On the west side of the property, which is underlain by volcanic rocks, the samples should be analyzed for gold and copper. Those on the east side underlain by granite require only gold analysis. Samples returning anomalous values should be followed up with more detailed sampling at 50m by 50m spacings.

VLF-EM should be conducted across areas of significant soil geochemical anomalies and mineral zones exposed by the 1989 trenching to help define structures which may be hosting gold-mineralized veins.

Excavator trenching is recommended to test favourable geochemical targets, especially those with coincident VLF-EM conductors. Geochemical anomalies on the south grid with values up to 340 ppb Au, underlain by granite, currently present some of the best targets.

On the west side of the property an area of copper mineralization exposed in several old bulldozer trenches should be evaluated by mapping and sampling. This should include a study of all available published data pertaining to previous work in this area.

The entire property should be geologically mapped and areas of anomalous geochemistry should be prospected.

Respectfully submitted

**CORDILLERAN ENGINEERING LTD.**



John Cormier, B.Sc.,  
Geologist

JC/z  
January, 1990



3.0

I N T R O D U C T I O N

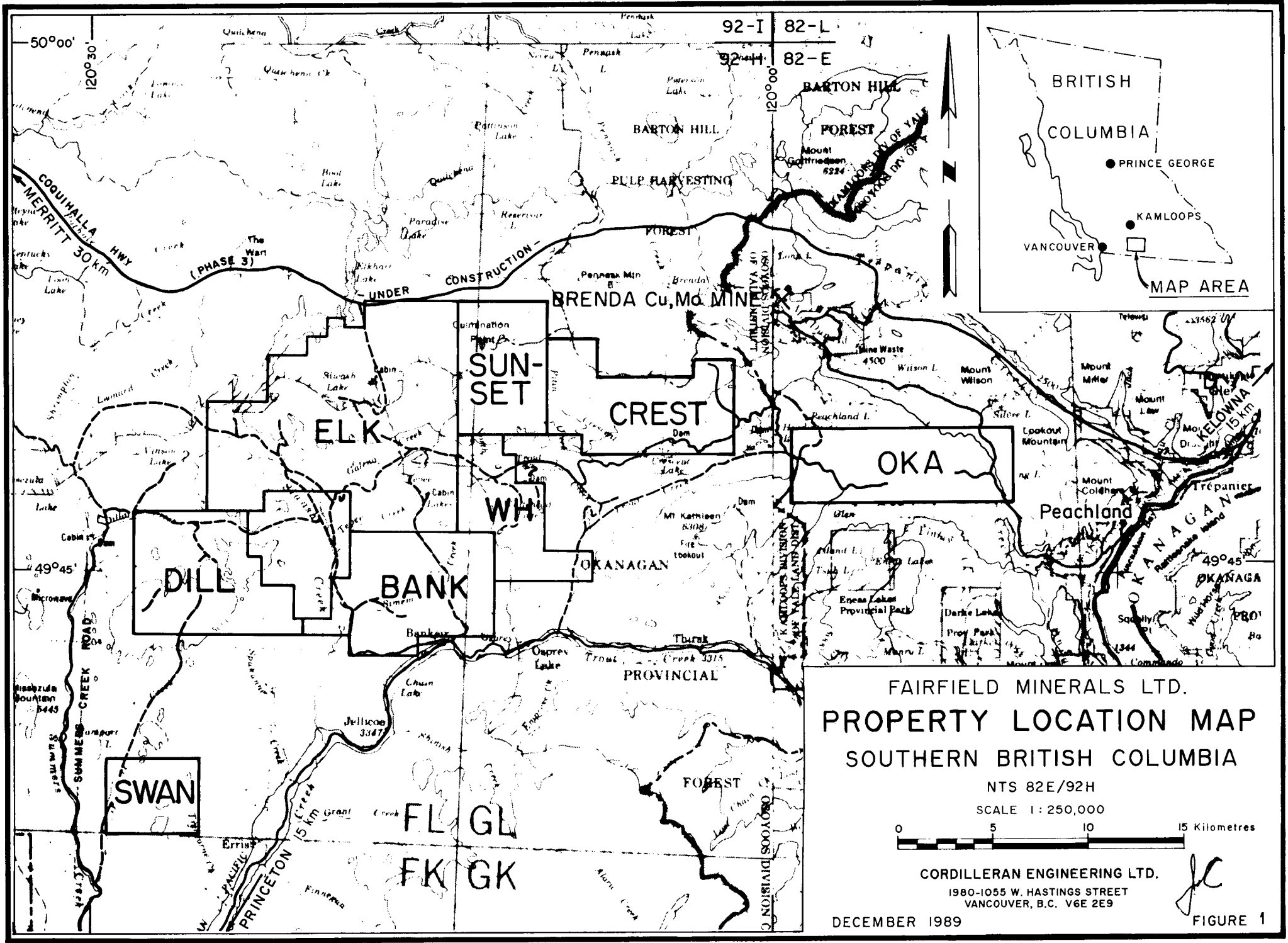
3.1 LOCATION AND PHYSIOGRAPHY (Figure 1)

The Dill property is located 50 kilometres west of Peachland and 47 kilometres southeast of Merritt in south-central British Columbia (Figure 1). The property is centred on latitude 49°45'N and longitude 120°25' W within NTS map areas 92H/9W and 16W. Good gravel roads provide access from Peachland and from the Princeton-Merritt highway via the Dillard Main Forest Service road. Several logging roads traverse the property providing excellent access.

The claims cover an area of thirty-eight square kilometres in rolling, hilly terrain on a broad uplands plateau. Elevations range from 1250m to 1700m above sea level. Small streams drain the property to the north, west and south. Dillard Creek has its source at two small lakes centrally located on the property. Outcrop exposures are moderately abundant and till cover appears to be relatively thin. Mature stands of spruce, balsam, fir and pine have been logged from several scattered plots. Annual temperatures range from -20° C to 30° C and precipitation is low to moderate. The area is basically snow-free from mid June through October.

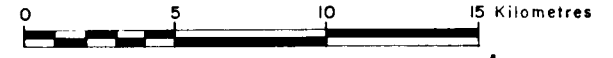
3.2 CLAIM DATA (Figure 2)

The current status of the Dill claims is indicated in Table 1, and their locations are shown on Figure 2. The Dill 1 and 2 claims were staked in May and October, 1988 and the remainder were staked in May and June of 1989. The property is located in the Similkameen Mining Division and is 100 percent owned by Fairfield Minerals Ltd. It is subject to an option agreement whereby Placer Dome Inc. may earn an interest.



FAIRFIELD MINERALS LTD.  
**PROPERTY LOCATION MAP**  
 SOUTHERN BRITISH COLUMBIA

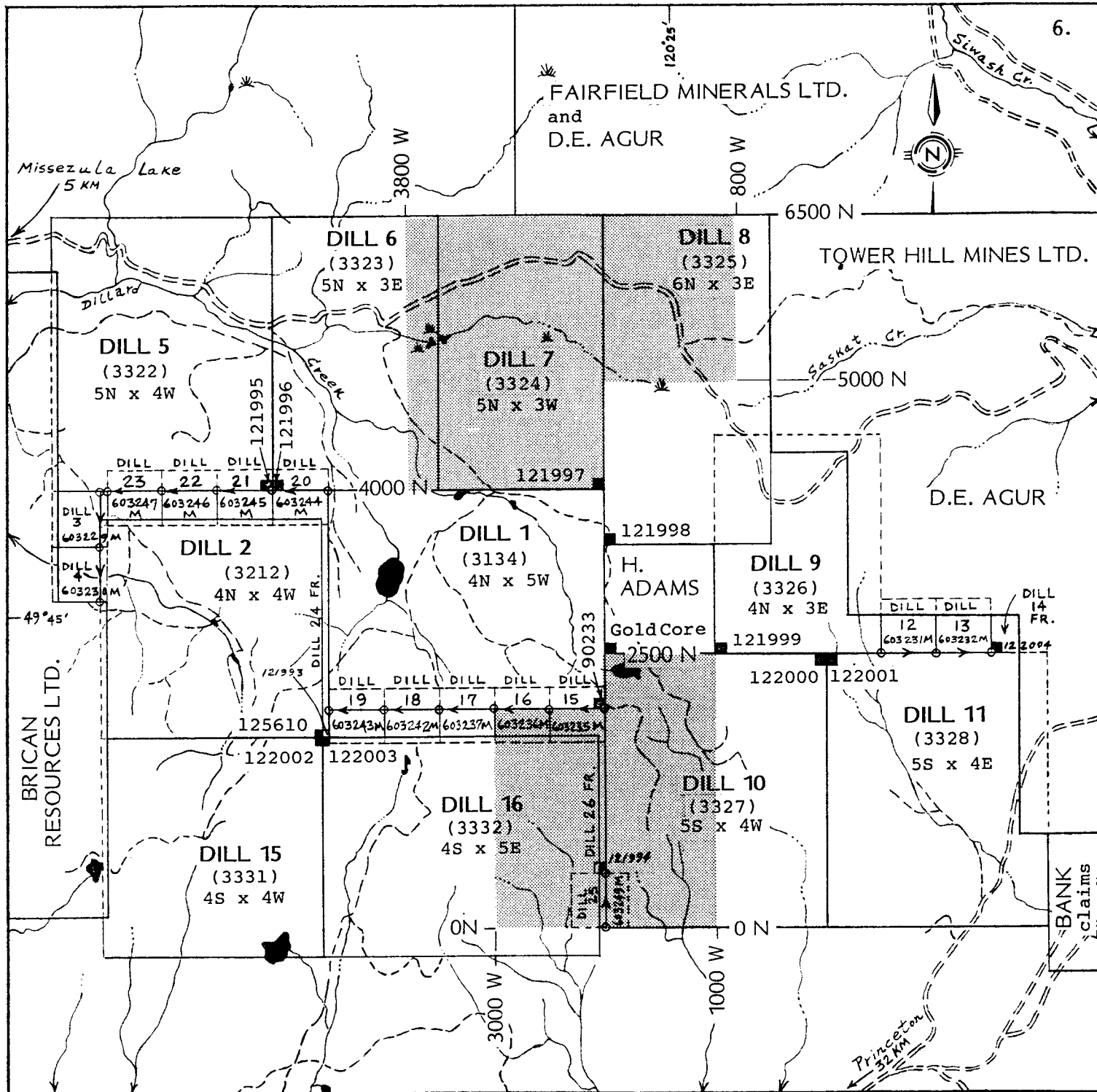
NTS 82E/92H  
 SCALE 1:250,000



CORDILLERAN ENGINEERING LTD.  
 1980-1055 W. HASTINGS STREET  
 VANCOUVER, B.C. V6E 2E9

DECEMBER 1989

FIGURE 1



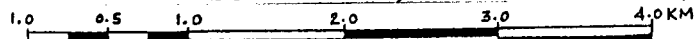
**LEGEND**

- 90233 Legal Corner Post and Tag No. for 4-Post or Fractional Claim.
- (3212) Record No. of 4-Post Claim.
- 603230 M Initial and/or Final Posts, Location Line Direction and Tag No. for 2-Post Claim.
- 1989 Soil Geochemical Grid
- 800W Grid Line Number
- Access Roads

**FAIRFIELD MINERALS LTD.  
DILL PROPERTY**

**CLAIM AND GRID LOCATION**  
Similkameen Mining Division, B.C.  
NTS: 92H/9W and /16W

SCALE: 1:50,000



By: **CORDILLERAN ENGINEERING LTD.**  
Vancouver, B.C.

December, 1989

Figure 2

Table 1 CLAIM STATUS as at December 1, 1989

<u>CLAIM</u>	<u>UNITS</u>	<u>RECORD NO.</u>	<u>EXPIRY DATE</u>
DILL 1	20	3134	21 JUNE 1997
DILL 2	16	3212	13 OCT. 1996
DILL 3	2-post	3320	9 MAY 1996
DILL 4	2-post	3321	9 MAY 1996
DILL 5	20	3322	8 MAY 1997
DILL 6	15	3323	8 MAY 1997
DILL 7	15	3324	8 MAY 1993
DILL 8	18	3325	9 MAY 1993
DILL 9	12	3326	10 MAY 1993
DILL 10	20	3327	10 MAY 1993
DILL 11	20	3328	11 MAY 1993
DILL 12	2-post	3329	10 MAY 1993
DILL 13	2-post	3330	10 MAY 1993
DILL 14FR	1	3372	19 JUN 1993
DILL 15	16	3331	11 MAY 1996
DILL 15	2-post	3387	21 JUN 1996
DILL 16	20	3332	11 MAY 1993
DILL 16	2-post	3388	21 JUN 1996
DILL 17	2-post	3389	21 JUN 1996
DILL 18	2-post	3390	21 JUN 1996
DILL 19	2-post	3391	21 JUN 1996
DILL 20	2-post	3392	24 JUN 1996
DILL 21	2-post	3393	24 JUN 1996
DILL 22	2-post	3394	24 JUN 1996
DILL 23	2-post	3395	24 JUN 1996
DILL 24FR	1	3396	24 JUN 1996
DILL 25	2-post	3409	27 JUN 1993
<u>DILL 26FR</u>	<u>1</u>	<u>3410</u>	<u>27 JUN 1993</u>
28 Claims	195 Units		
	+ 14 2-post claims		

### 3.3 HISTORY

The central area of the Dill property was explored for copper in 1981 and 1983 by Cominco. Geological mapping, ground EM and magnetometer surveys and soil sampling were conducted. Chalcopyrite was found sporadically disseminated and in calcite veins cutting Nicola volcanic rocks intruded by dykes of variable compositions.

The northwest claims and the area immediately to the west were explored for copper, gold and silver from 1963 through 1970 by several companies utilizing soil sampling, mapping, ground EM, airborne magnetometer, I.P., trenching and

extensive percussion and diamond drilling. Part of this area has been recently diamond drilled by Brican Resources Limited. Some of the drill intercepts reported in January, 1989 include: 6 feet of 0.27 oz/ton Au, 1.15% Cu and 225 feet of 0.18 % Cu.

During 1987 Fairfield Minerals Ltd. conducted reconnaissance soil sampling in the area subsequently staked as Dill 1 claim. This sampling identified several areas of anomalous gold and copper and scattered anomalies of silver, lead, zinc and arsenic.

In 1988 Fairfield undertook grid soil sampling with follow-up detailed soil sampling, prospecting and rock sampling in areas of anomalous geochemistry. The work was conducted on, and east of, the Dill 1 claim. Following this program the Dill 2 claim was staked.

#### 3.4 1989 EXPLORATION PROGRAM

In May and June of 1989 Dill 3 through 26 claims were staked surrounding Dill 1 and 2. Grid soil sampling was carried out on the north and south parts of the property with follow-up detailed soil sampling, prospecting and rock sampling in geochemically anomalous areas. An induced polarization (I.P.) survey was conducted to further define zones of potential mineralization. Trenching was undertaken on the Dill 1 claim to test gold and copper anomalies revealed by the 1988 soil sampling program. Approximately 1900m of bedrock exposed in twelve trenches was essentially sampled in its entirety by continuous chip samples as well as several selected grab rocks and trench soils.

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4.0

G E O L O G Y

4.1 REGIONAL GEOLOGY (Figure 3)

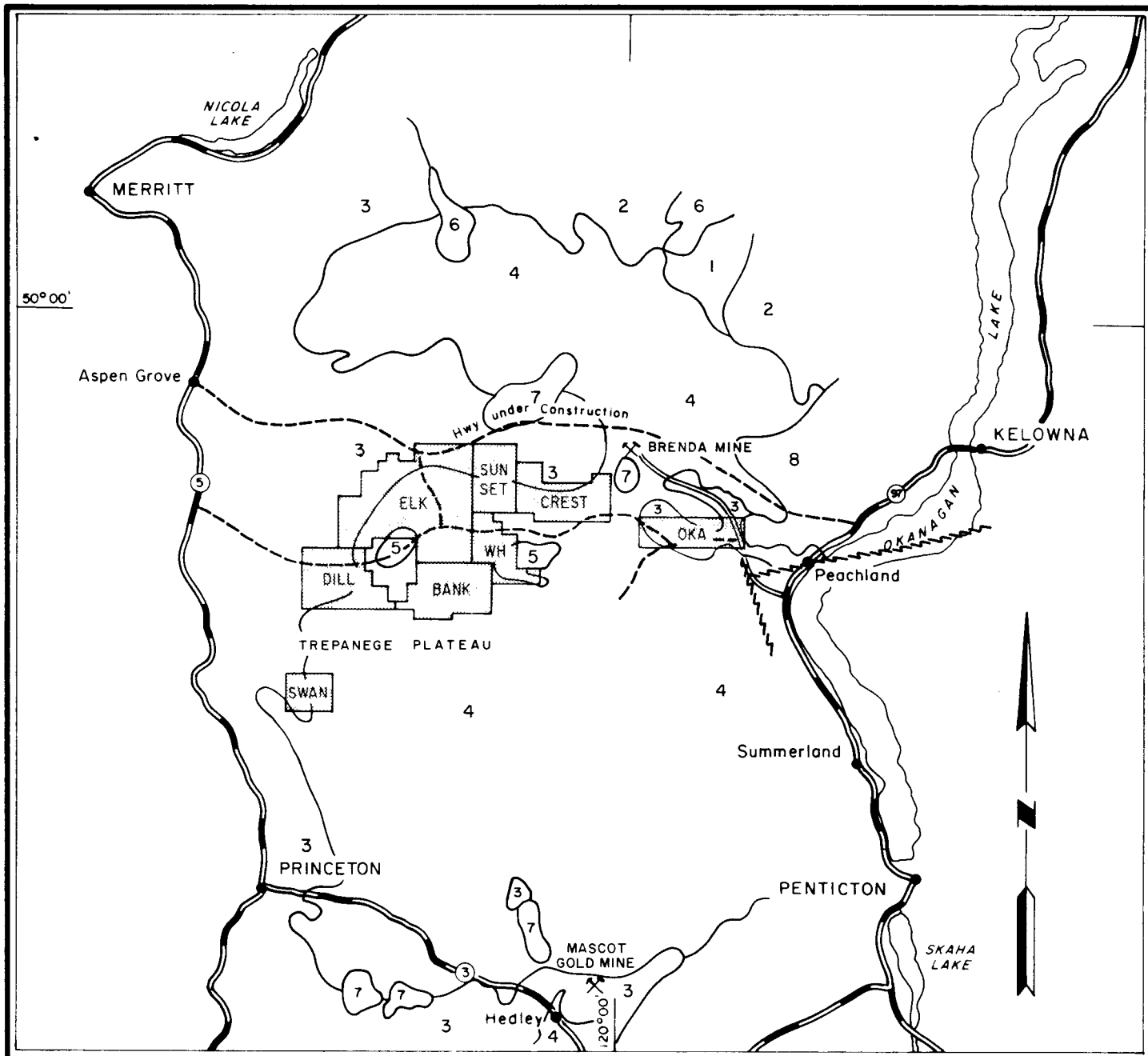
The Dill property regional geology is shown on the northern part of GSC Map 888A, Princeton, mapped by H.M.A.Rice, 1939-1944 and condensed on Figure 3. The area is partially underlain by Upper Triassic Nicola Group intermediate to mafic volcanic rocks, with local interbeds of argillite and minor limestone. These rocks occupy a shallow embayment in a Jurassic, reddish, coarse grained granite batholith which underlies the eastern part of the property.

4.2 PROPERTY GEOLOGY AND MINERALIZATION

Exposures on the property consist predominantly of dark green, blocky Nicola Group volcanic rocks. These are andesitic to basaltic flows and fragmental units which are contemporaneous with zones of diorite to granodiorite composition, considered to be sub-volcanic feeders. Local strong fracturing and shearing are accompanied in places by intense argillic, propylitic and carbonate alteration. Silicification, quartz and calcite veining and masses of epidote and garnet are developed locally.

Disseminations and fine veinlets of pyrite and pyrrhotite are common throughout the volcanics. Chalcopyrite occurs sporadically with pyrite in quartz veins and quartz-calcite veinlets, as fracture coatings or disseminated within silicified volcanics. Gold values are associated with pyrite and/or chalcopyrite in quartz veins and masses. Selected rock chip samples of quartz material from trenches have yielded values up to 7.42 oz/ton gold. Additional details are included in Section 7.2 (Trench Results).

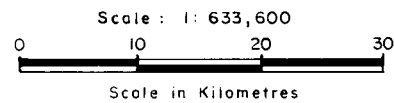
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**LEGEND**

8	Eocene/Oligocene	Andesite flows
7	Miocene/earlier	Princeton Group - shale, sandstone
6	Miocene/earlier	Kamloops Group - rhyolite, andesite
5	Upper Cretaceous	Otter Intrusions - granite
4	Jurassic/Cretaceous	Coast Intrusions - granite, granodiorite
3	Upper Triassic	Nicola Group - andesite, basalt, sediments
2	Carbonaceous	Cache Creek Group - argillite, quartzite, andesite
1	Pre Permian	Chapperon Group - schist

FAIRFIELD MINERALS LTD.  
**PROPERTY LOCATION  
 AND  
 REGIONAL GEOLOGY**  
 ELK, DILL, BANK, WH, SUNSET,  
 CREST, OKA & SWAN PROPERTIES  
 THOMPSON-OKANAGAN AREA, B.C.



CORDILLERAN ENGINEERING LTD.  
 1980-1055 W. HASTINGS STREET  
 VANCOUVER, B.C. V6E 2E9



5.0

G E O C H E M I S T R Y

5.1 SAMPLING PROCEDURE (Figures 2 and 4)

Two geochemical grids, both with 200m line separation and 50m sample spacing, were completed over the Dill 6, 7 and 8 claims on the north and the Dill 10 and 16 claims on the south part of the property (Figure 2). Soil stations were established using hip chain and compass and were marked with numbered orange and blue flagging. Samples were collected from the "B" soil horizon with mattocks and placed in kraft paper bags. A sample number consisting of grid coordinates was marked on each bag. The samples were sent to Acme Analytical Laboratories Ltd. in Vancouver, where they were dried, sieved and the -80 mesh fraction used for gold and copper analyses. Gold was analyzed by atomic absorption following aqua regia digestion and MIBK extraction from a 10 gram sample. Copper was analyzed by ICP on a 0.5 gram sample digested with HCl-HNO<sub>3</sub>-H<sub>2</sub>O for one hour.

A total of 1078 soil samples was collected on 200m spaced lines; 606 samples from the north grid and 472 from the south grid. Fill-in sampling was conducted at 50m by 50m spacings around most of those samples which returned 20 ppb gold or higher, comprising 237 samples from the north grid and 354 from the south grid for a total of 591 fill-in soil samples.

In addition, prospecting and sampling around areas of anomalous gold geochemistry provided 34 rock samples which were analyzed for Cu, Ag and Au (selected samples were also tested for Pb, Zn and As). Nineteen stream sediment samples were collected of which eight were analyzed for 30 elements by ICP, nine for Cu, Ag, Au and two for Cu, Ag, Au and Zn. Seven reconnaissance soil samples were taken with two analyzed for 30 elements plus Au, two for Cu, Ag, Au, Zn and three for Cu, Ag, Au. Nineteen of the 60 (total) reconnaissance samples are located outside of the present property boundaries (Figure 4).

5.2 GRID RESULTS (Plates 1 and 2)

The 1989 gold and copper soil geochemical results are plotted on Plates 1 (north grid) and 2 (south grid). Contours have been drawn around gold values of 15 ppb or greater which are considered to be significant anomalies.

On the north grid there are scattered single point gold anomalies with no apparent general trend, however, some of the very high values (i.e., 247 ppb, 550 ppb) warrant more detailed evaluation. Strongly anomalous copper values are not common on the north grid but an 1800m long east-west zone of moderate values extends between 4600N and 4800N.

The south grid contains several anomalous gold values. Between 1800N and 2400N an east-northeast gold trend can be traced for 1200m. Immediately south of this zone is a 400m long northeast trending anomaly between 1200N and 1600N containing some of the highest gold values. Also there is a significant gold anomaly between 0N and 400N trending southeast for 600m to the grid boundary. Copper values are generally low and do not outline any concentrated areas of interest.

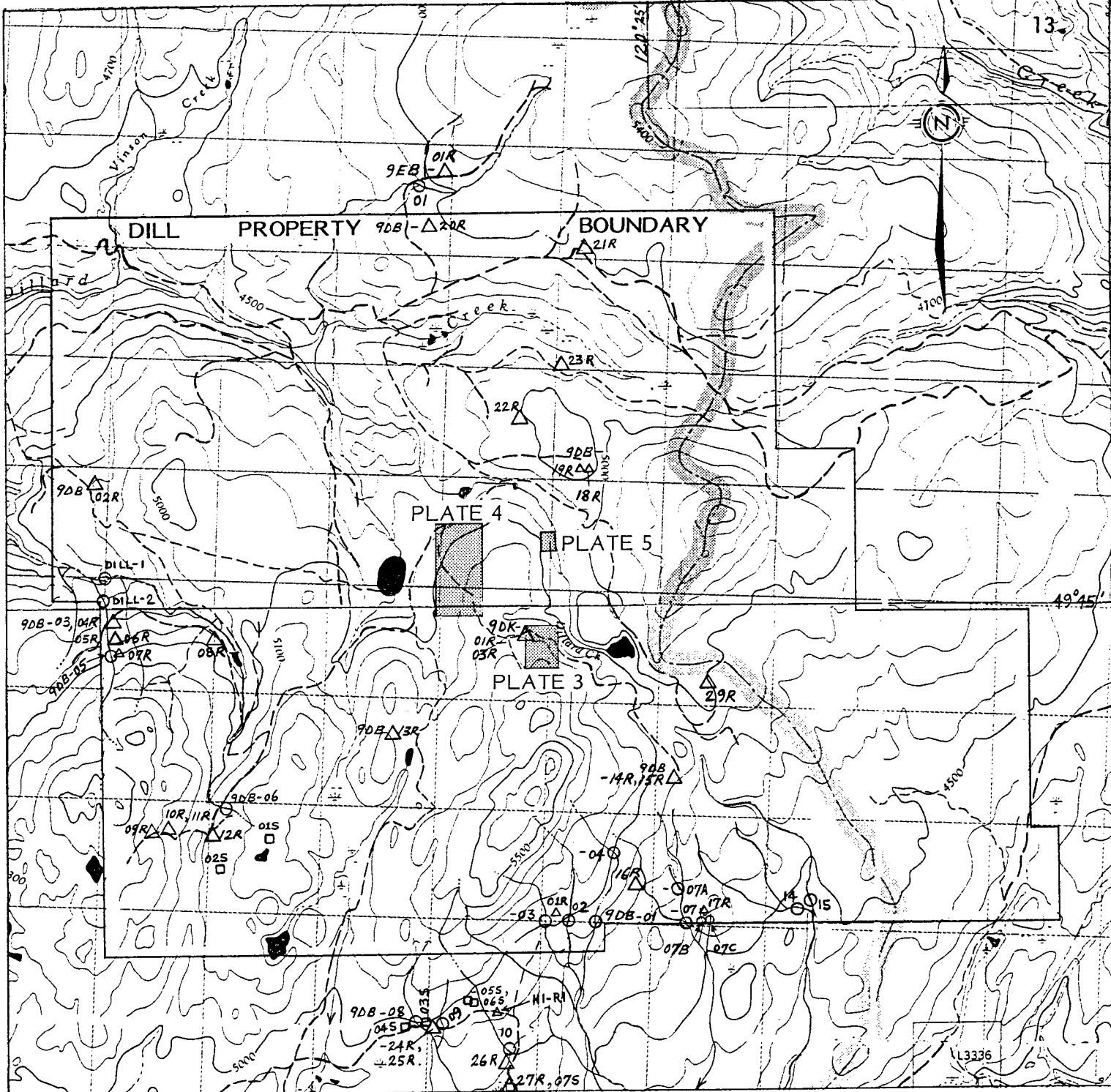
### 5.3 RECONNAISSANCE RESULTS (Figure 4, Section 13.0)

Analyses of sediment samples from streams draining the west-central and southern parts of the property include 8 anomalous copper values from 101 to 169 ppm, 2 strongly anomalous zinc values of 450 and 708 ppm, 6 anomalous silver values of 0.7 to 1.3 ppm and 4 weakly anomalous gold values in the 6 to 10 ppb range. The strongest coincident gold-copper stream sediment anomaly (1988 sample Dill-1: 50 ppb Au, 165 ppm Cu) is likely caused by the Primer South copper showing immediately northeast of the drainage near the western edge of the property. Other significant Cu, Zn, Ag, Au sediment anomalies are situated near or outside the southern property boundary, in granitic rocks proximal to the volcanic contact.

Three of the 7 reconnaissance soil samples returned moderately anomalous copper values of 105, 136 and 152 ppm. One of these (9DB-01S) was taken over a small carbonate alteration zone in volcanics; the other two (9DB-03S, 04S) are from an east-northeast trending shear in granite south of the property boundary. Gold values were all low.

Rock sampling returned anomalous values of 156 and 240 ppb Au; 9.2, 29.4 ppm Ag from pyritic quartz vein float (9DB-01R, 26R and H1-R1) in granitic terrain surrounding significant gold soil geochemistry at the southern claim boundary. The highest copper content of 6408 ppm (0.64%) as well as 17.7 ppm Ag and 106 ppb Au in sample 9DB-23R was from a minor chalcopyrite occurrence in potassic and silicic altered coarse volcanics near North Grid soil station 2400W, 5100N.

\*\*\*\*



**LEGEND**

- Stream Sediment
  - Soil
  - △ Rock (grab)
- Sample Sites
- "9DB" Sample Number Prefix except as noted.
- 9DB 11-13 (Seds.) and -28R (rock) are off map area to the south.
- DILL - 1,2 (Seds.) are 1988 Samples (50,3 ppb Au).
- 1989 TRENCH AREA
- PLATE 3: Trenches D89. 1-4
- PLATE 4: Trenches D89.5-8, 10-12
- PLATE 5: Trench D89.9

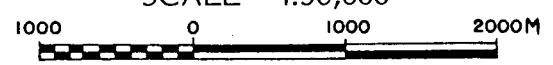
**FAIRFIELD MINERALS LTD.**

**DILL PROPERTY**

**RECONNAISSANCE SAMPLE AND TRENCH LOCATIONS**

Similkameen Mining Division, B.C.  
NTS: 92H/9W and /16W

SCALE - 1:50,000



By: CORDILLERAN ENGINEERING LTD.  
Vancouver, B.C.

December, 1989

Figure 4

6

6.0

G E O P H Y S I C S

An induced polarization (I.P.) and resistivity survey was conducted on the Dill property between June 24 and June 30, 1989. A report prepared by Pacific Geophysical Ltd. is appended (Section 12.0).

The reconnaissance survey entailed 6.3 line-kms with 25m dipole separations on lines spaced at 100 metres. Line 3200W was re-surveyed with 50m separations over 0.9 km, for a total survey of 7.2 km.

A total of 7.5 km of grid lines was cut by chainsaw to facilitate the survey. Lines 2300W, 2400W and 2500W were cut from 2300N to 2900N, lines 2900W to 3300W were cut from 2700N to 3600N and baseline 2900N extends from 2300W to 3300W. Stations were marked at 25m intervals with grid numbered lath pickets.

The anomalous I.P. zones outlined by the survey are marked on Drawing No. IPP-3023 (Section 12.0). Zones A, B and C exhibit the strongest I.P. response and have higher than background resistivity levels. They correlate well with anomalous gold and copper soil geochemical values. Zones D, E and F have somewhat weaker I.P. values. Trenching in some of these anomalous I.P. areas revealed extensive disseminated sulphide mineralization and several small mineralized quartz veins which may have caused the observed geophysical effects.

Zones G, H, I and J have weak I.P. responses coupled with slightly higher than background resistivity readings and correspond with moderately anomalous gold and copper geochemistry. Trenching has failed to define any particular source for these IP effects.

\*\*\*\*





7.0

TRENCHING

7.1

TRENCH OPERATIONS

Twelve trenches totalling 1886 metres were excavated to test soil geochemical anomalies in two main areas, the North and South Zones, and in one isolated location, all on Dill 1 claim (Figure 4). A Caterpillar 215 excavator operated by W. Dobbin Construction Ltd. of Kelowna, was used to dig the trenches. Depth of overburden averaged 1 m although some sections up to 3 m were encountered. Bedrock was exposed in all the trenches.

Each trench was mapped in detail at 1:100 scale, and compiled at 1:500 and 1:1000 scales (Plates 3, 4 and 5). Chip samples, generally 1.5 m in length, were taken almost continuously along all trenches. Soil samples were collected every 5 m at the bedrock-overburden interface in selected areas in 3 trenches. All soil and rock samples were shipped to Acme Analytical Labs in Vancouver for standard preparation and Cu, Au analyses. Copies of all analytical results are appended (Section 13.0). Anomalous soil and rock values greater than 300 ppb Au are plotted. All trenches have since been back-filled, groomed and seeded to meet government environmental standards.

7.2

TRENCH RESULTS (Plates 3, 4 and 5 )

7.2.1

South Zone (Plate 3)

Four trenches testing geochemical targets in the South Zone exposed 290 metres of bedrock. Rock samples from these trenches had slightly elevated gold values which may explain the anomalous soil geochemistry, however no significant concentrations of gold were encountered. Soil geochemical values in proximity to the trenches are shown on the map. Trenches are discussed below in order from east to west.

Trench 1 (74.0m) was dug to test a soil anomaly (65 ppb Au, 769 ppm Cu) and revealed moderately fractured, propylitized, porphyritic andesite containing medium grained augite phenocrysts. A 1 metre wide section of rusty silicic, calcareous rock of intermediate composition was exposed and sampled but returned few significant results. One 1.5 metre chip sample of porphyritic andesite with trace pyrite contained 410 ppb gold, 1773 ppm (.17%) copper. Resampling returned values of 1884 ppb gold, 1817 ppm (.18%) copper.

Trench 2 (71.5m) was cut across an east-west trending gold anomaly. Moderately to strongly fractured locally porphyritic andesite with trace pyrite and hematite staining on fracture surfaces comprised the majority of exposed bedrock. Within this material was a 1.5 metre wide unit of very hard calcareous rock which may be a continuation of the unit encountered in trench 1. Near the south end is a segment of strongly argillic altered volcanics ranging in colour from bleached olive to rust brown. Dark green and grey siltstone was noted at the southern tip of the trench. The entire trench was chip sampled with no significant results being returned.

Trench 3 (51.0m) was dug to test a 69 ppb gold soil result. The entire exposure consisted of propylitized andesite with minor hematitic and iron carbonate staining on fracture surfaces and up to 1% pyrite. No significant results were returned.

Trench 4 (75.0m) tested two geochemical anomalies (35, 26 ppb gold). The majority of exposed rock consisted of dark green, fine grained andesite with hematitic and iron carbonate staining together with up to 1% pyrite. Augite phenocrysts are present locally. Strong argillic alteration is evident but restricted to small intensely fractured zones. A dike, possibly related to the Otter intrusions of Cretaceous age, composed of brown aphanitic matrix with kaolinized plagioclase phenocrysts, contacts the andesite at the south end of the trench. Continuous chip sampling failed to yield any high gold or copper values.

#### 7.2.2 North Zone (Plate 4)

The North Zone, located 500m NW of the South Zone, consists of an extensive area of anomalous gold and copper soil geochemistry. It was tested by mapping and sampling in seven trenches totalling 1514.5 metres. Several quartz veins with various orientations were revealed and analyzed for gold and copper returning encouraging results. Trenches are described in order from east to west.

Trench 10 (207.0m) tested two anomalous gold values (68, 92 ppb gold) and a sub-crop rock sample which assayed .659 oz/ton gold (D-R22) from 1988 sampling. Encouraging results were obtained from grab samples of a 1-2 cm quartz vein which yielded 17,225 ppb gold (90C-13R) and a muck pile sample of quartz which returned 6387 ppb gold (9DC-08R). These, as well as non-mineralized veins, have variable strikes, but trend approximately east-west and dip steeply. Host rocks consist of granodiorite and, for the most part, diorite exhibiting weak widespread potassic alteration. Argillic and propylitic alteration were observed in andesite at the south end of the trench. Trench soils produced several anomalous results including 129 ppb gold (11TS), 123 ppb gold (30TS) and 370 ppb gold (36TS).

Trench 6 (157.5m) was excavated to sample the bedrock beneath a zone of anomalous copper values and two elevated gold values (17, 37 ppb). A section of extensively argillic altered andesite was revealed as well as the largest exposure of siltstone on the property. The most significant discovery in the trench was a steeply dipping, east-west trending quartz vein measuring 35cm to 70cm in thickness. It is highly fractured and contains considerable chalcopyrite throughout. Initial chip sampling results were low but a panel sample taken across the entire vein returned 850 ppb gold, .36% copper.

Trench 7 (249.0m) lies within an area of anomalous copper geochemistry and partially coincident anomalous gold values. The exposed bedrock is dominated by moderately to strongly fractured andesitic volcanics displaying argillic, propylitic and minor silicic alteration. Propylitized granodiorite with minor pyrrhotite occupies a small area in the northern part of the trench.

The most encouraging results of the program were returned from three 1.5 metre long chip samples (nos. 28, 29, 30) in trench 7, which averaged 2.49 oz/ton gold, .16% copper over 4.5 metres. Sample 28 contained 156,500 ppb (4.56 oz/ton) gold, .23% copper over 1.5 metres. A 1 cm wide steeply dipping quartz vein striking 040° was believed to be responsible for this highly anomalous gold value. A grab sample (9DC-05R) of this quartz material assayed 6.297 oz/ton gold. Subsequently, another cut was taken from the pulp of the original sample 28 and fire assayed, giving a value of 7.42 oz/ton gold. A panel sample (28P) measuring 1.5m by 0.5m was collected over the same site to confirm these findings. A value of 8220 ppb (.24 oz/ton) gold was returned. Stripping was undertaken extending the trench 10m along the strike of the vein structure northeast from sample 28. The samples taken from the extension returned lower values than anticipated with a high of 574 ppb gold (D897-JP).

Trench 11 (123.0m) is an east-west trench dug across an area of high copper geochemistry. Bedrock consisted almost exclusively of argillically altered andesite and lesser amounts of propylitized andesite with hematite staining on fracture surfaces. Extensive chip sampling returned no significant results from this trench.

Trench 8 (470.0m) served to test isolated gold and copper geochemical anomalies. It was dug along the road ditch located near the anomalous stations, for ease of access and minimal overburden depth. Exposed andesitic volcanics ranged from fresh to strongly altered due to argillation and/or propylitization. Local chloritized granodiorite was encountered. Fracturing is generally weak in granodiorite and moderate to strong in the andesite. Nearly continuous sampling yielded few significant results; 1722 ppb gold over 1.5 metres (D898-34), .11% copper over 1.5 metres (D898-67), .217% copper over 1.5 metres (D898-68).

Trench 12 (185.0m) is an east-west trench dug along a string of high copper values in soils. Andesitic volcanics, weakly propylitized and containing trace pyrite, was the dominant lithology exposed. A large section of intensely argillic altered volcanics with limonitic staining was revealed. Three trench soils were taken over an area of overburden in the trench. No significant results were returned from extensive chip sampling.

### 7.2.3 Trench No. 9 (Plate 5)

This 67.5 metre long north-south trench cut a coincident gold and copper geochemical anomaly. Excavation revealed andesitic rock with abundant calcite veining, iron carbonate staining and intense fracturing. However, no mineralization was seen and sampling returned no significant results.



8.0

P E R S O N N E L

Cordilleran Engineering Ltd.:

J. Cormier, Geologist	Vancouver, B.C.	63 mandays
C. Robertson, Sampler	North Vancouver, B.C.	63 mandays
P. Kokan, Sampler	Vancouver, B.C.	63 mandays
G. Stollery, Sampler	North Vancouver, B.C.	63 mandays
M. Brinkerink, Cook/Sampler	Vancouver, B.C.	63 mandays
E. A. Balon, Prospector	North Vancouver, B.C.	30 mandays
J. D. Rowe, Geologist	North Vancouver, B.C.	13 mandays

Contractors:

Wiltech Developments Ltd.	Kelowna, B.C.	23 mandays
Pacific Geophysical Ltd.	Vancouver, B.C.	23 mandays
Gordon Clark & Associates Ltd.	Whitehorse, Y.T.	20 mandays

\*\*\*\*



9.0

STATEMENT OF EXPENDITURES

DILL PROPERTY

<u>PARTICULARS</u>	<u>Amount</u>
SALARIES .....	33,920.00
BENEFITS .....	3,722.60
GEOCHEMICAL ANALYSIS .....	26,131.94
ASSAYS & PETROGRAPHIC .....	17.00
GEOPHYSICAL SURVEY .....	6,750.00
LINECUTTING .....	3,295.62
TRENCHING (EXCAVATOR) .....	28,565.00
TRUCK RENTALS .....	3,623.13
CAMP EQUIPMENT RENTAL .....	6,032.00
RADIO RENT & LICENCES .....	942.80
OFFICE SUPPLIES, PRINTING .....	353.51
TELEPHONE, POSTAGE .....	409.16
FREIGHT, EXPRESS, DELIVERY .....	2,132.38
INSURANCE .....	289.00
MAPS, PUBLICATIONS .....	319.29
BANK CHARGES .....	40.37
TRAVEL (Mileage, meals) .....	2,066.15
MISC (First Aid Course) .....	300.00
CAMP SUPPLIES .....	2,897.87
FOOD .....	6,390.16
PROPANE .....	29.50
VEHICLES (gasoline, repair) .....	835.56
<b>TOTALS AT SEPT. 30, 1989</b>	<b><u>\$129,063.04</u></b>



\*\*\*\*





10.0

R E F E R E N C E S

1989, March 8:

George Cross News Letter: No. 47, p.3

1979:

PRETO, V.A.:  
British Columbia Ministry of Energy, Mines and Petroleum Resources,  
Bulletin 69, Geology of the Nicola Group between Merritt and  
Princeton.

1989:

ROWE, J.D.:  
1988 Geochemical Report on the Dill 1 Mineral Claim.

\*\*\*\*



11.0 STATEMENT OF QUALIFICATIONS

I, John Cormier, of Vancouver, British Columbia hereby certify that:

1. I am a geologist residing at 302 - 2775 Spruce Street, 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 Geology from the St. Francis Xavier University of Antigonish, Nova Scotia in 1985.
3. I have practiced my profession for four years in Nova Scotia, New Brunswick, Ontario and British Columbia.
4. I am the author of this report and supervisor of the field work conducted on the Dill claims during the period June 12 to August 11, 1989.

CORDILLERAN ENGINEERING LTD.



John Cormier, B.Sc.,  
Geologist

January, 1990  
Vancouver, B.C.



JUL 17 89

PACIFIC GEOPHYSICAL LTD.

REPORT ON THE

INDUCED POLARIZATION AND  
RESISTIVITY SURVEY

on the

DILL (#1) PROPERTY, SIMILKAMEEN M.D., B.C.

for

CORDILLERAN ENGINEERING LTD.

by

PAUL A. CARTWRIGHT, P.Geoph.

GEOPHYSICIST

Dated: July 13, 1989

TABLE OF CONTENTS

PART A - REPORT

- |                          |        |
|--------------------------|--------|
| 1) INTRODUCTION          | Page 1 |
| 2) DISCUSSION OF RESULTS | Page 2 |
| 3) RECOMMENDATIONS       | Page 3 |

PART B - ILLUSTRATION

Plan map of interpreted IP Results -	Dwg. No. IPP-3023
IP Pseudosections	Line 3300W - 25 meter dipole-dipole array
	Line 3200W - 50 meter dipole-dipole array
	Line 3200W - 25 meter dipole-dipole array
	Line 3100W - 25 meter dipole-dipole array
	Line 3000W - 25 meter dipole-dipole array
	Line 2900W - 25 meter dipole-dipole array
	Line 2500W - 25 meter dipole-dipole array
	Line 2400W - 25 meter dipole-dipole array
	Line 2300W - 25 meter dipole-dipole array

## 1) INTRODUCTION

An induced polarization (IP) and resistivity survey has been completed on the Dill (#1) Property, Similkameen M.D., B.C. on behalf of Cordilleran Engineering Ltd.

The measurements were made using an EDA Model IP-6 six channel IP receiver unit in conjunction with a Phoenix Model IPT-1 transmitter unit and a 1.0 Kw motor-generator.

IP chargeability is plotted as milli-seconds (m sec), while resistivity values are normalized in units of ohm-meters. Metal factor readings are calculated according to the following formula:  $IP \text{ (m sec)} + Res \text{ (ohm-m)} \times 1000$ .

Dipole-dipole array was used to make all of the measurements using a basic inter-electrode distance of 25 meters, and recording six dipole separations. One line, Line 3200W, was re-surveyed using 50 meter dipole lengths as well. In all, 7.2 l.km. of surveying was completed.

Objective of the present survey was to detect metallic mineralization possibly associated with economic gold values.

Field work took place between June 24, 1989 and June 30, 1989, under the supervision of Michael Cormier, B.Sc., Geophysicist.



2) DISCUSSION OF RESULTS

The IP and resistivity survey of the Dill (#1) Property has outlined a number of anomalous IP zones, which are marked on Dwg. No. IPP-3023, a 1:2500 scale plan map of the Dill (#1) geophysical grid. Depths to the sources of the IP anomalies are less than 25 meters sub-surface in virtually every case.

Zone A is generally composed of very anomalous IP effects, together with higher than background or background level resistivity values. A signature of this type could be caused by a relatively high percentage of disseminated metallic sulphides. True width of the source of the zone is probably in the order of 50 to 75 meters.

Zone B is also marked by high magnitude IP chargeability values combined with higher than background resistivities. Width of the zone is greatest in the vicinity of Line 3200W.

Zone C also exhibits very anomalous IP effects, however, these values are accompanied by much greater than normal resistivity readings, possibly suggesting the presence of quite siliceous material containing disseminated sulphides.

Zone D, Zone E, and Zone F are indicated by somewhat less anomalous IP values than those comprising the former 3 trends (Zone A, B, C). While higher than normal resistivity values are noted coincident with IP Zone D and F, only background levels are evident in the case of Zone E.

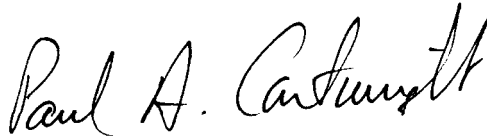
Zone G, Zone H, Zone I, and Zone J are all marked by moderately to weakly anomalous IP effects, coupled with generally higher than background resistivity readings.

### 3) RECOMMENDATIONS

A large number of anomalous IP zones have been interpreted in the data from the Dill (#1) grid. The sources of all the IP trends appear to be buried no deeper than 25 meters beneath the surface, and are generally more resistive than the host rocks, except possibly in the case of Zone E. Disseminated metallic sulphides are the most probable cause of the IP anomalies, with the concentration of sulphides being roughly proportional to the magnitude of the observed IP response.

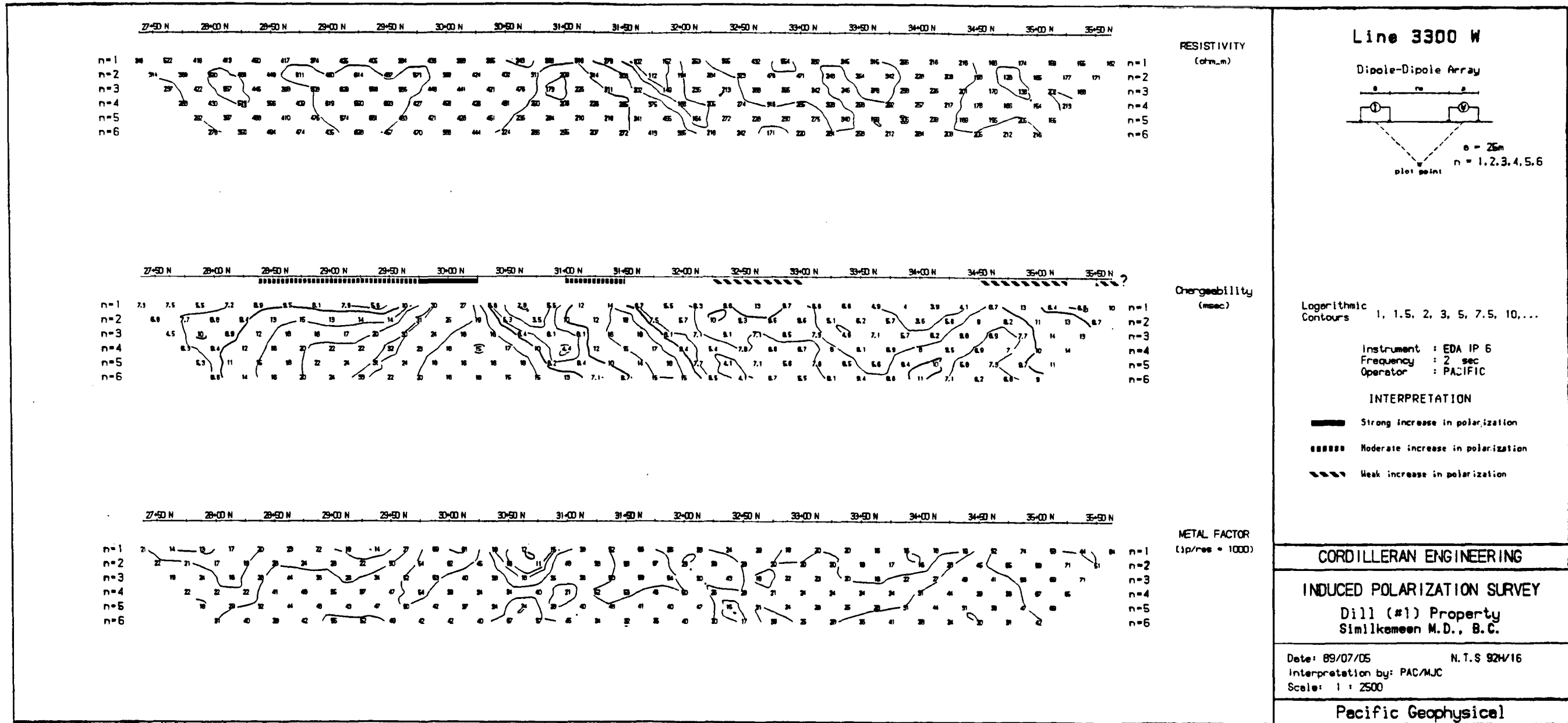
From a purely geophysical standpoint, Zone A, Zone B and Zone C would initially be selected as targets for drilling or trenching, based on the very anomalous nature of these features. However, final priorities for physically testing the sources of the Dill (#1) grid IP anomalies should be arrived at only after compiling all other data as well.

PACIFIC GEOPHYSICAL LTD.

A handwritten signature in black ink, reading "Paul A. Cartwright". The signature is written in a cursive style with a large, prominent initial "P".

PAUL A. CARTWRIGHT, P.Geoph.  
Geophysicist

Dated: July 13, 1989

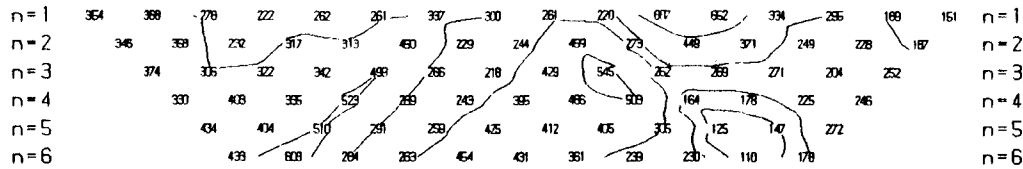


GEUSOFT (USA) Software for the Earth Sciences, Toronto, Canada

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**19,593**

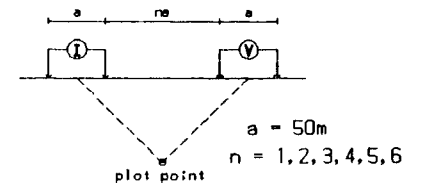
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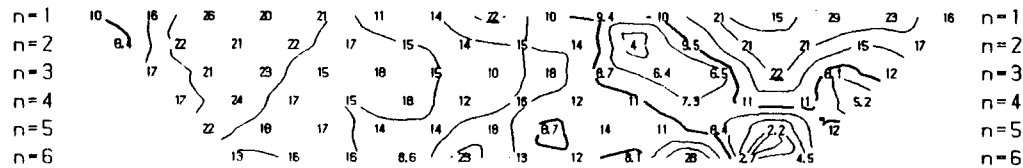
RESISTIVITY (ohm\_m)

### Line 3200 W

Dipole-Dipole Array



28+00 N 29+00 N 30+00 N 31+00 N 32+00 N 33+00 N 34+00 N 35+00 N



Chargeability (msec)

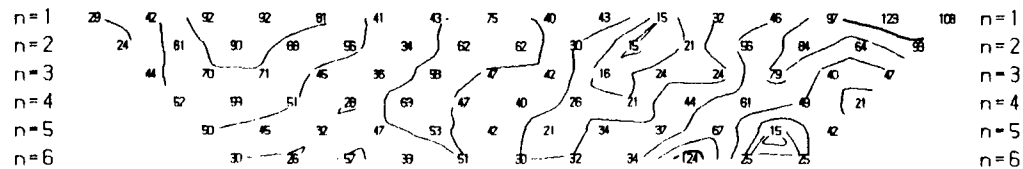
Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,...

Instrument : EDA IP 6  
Frequency : 2 sec  
Operator : PACIFIC

#### INTERPRETATION

- █ Strong increase in polarization
- █ Moderate increase in polarization
- █ Weak increase in polarization

28+00 N 29+00 N 30+00 N 31+00 N 32+00 N 33+00 N 34+00 N 35+00 N



METAL FACTOR (lp/res \* 1000)

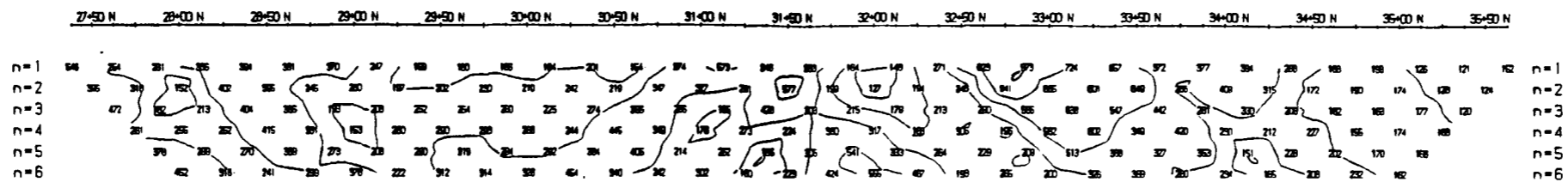
CORDILLERAN ENGINEERING

INDUCED POLARIZATION SURVEY

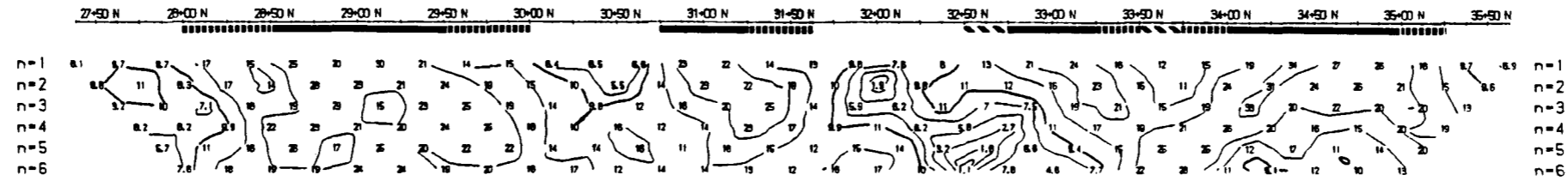
Dill (#1) Property  
Similkameen M.D., B.C.

Date: 89/07/05 N.T.S 92H/16  
Interpretation by: PAC/MJC  
Scale: 1 : 5000

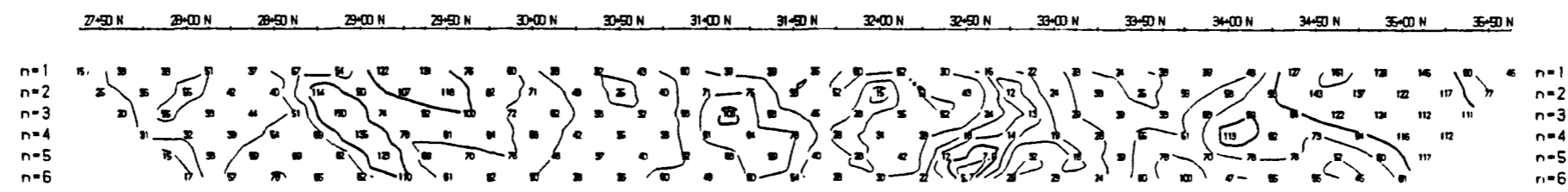
Pacific Geophysical



RESISTIVITY  
(ohm\_m)



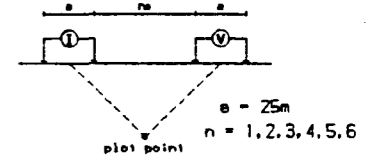
Chargeability  
(msec)



METAL FACTOR  
(ip/res = 1000)

Line 3200 W

Dipole-Dipole Array



Logarithmic  
Contours 1, 1.5, 2, 3, 5, 7.5, 10,...

Instrument : EDA IP 6  
Frequency : 2 sec  
Operator : PACIFIC

INTERPRETATION

- ▬ Strong increase in polarization
- ▬▬▬ Moderate increase in polarization
- ▬▬▬▬ Weak increase in polarization

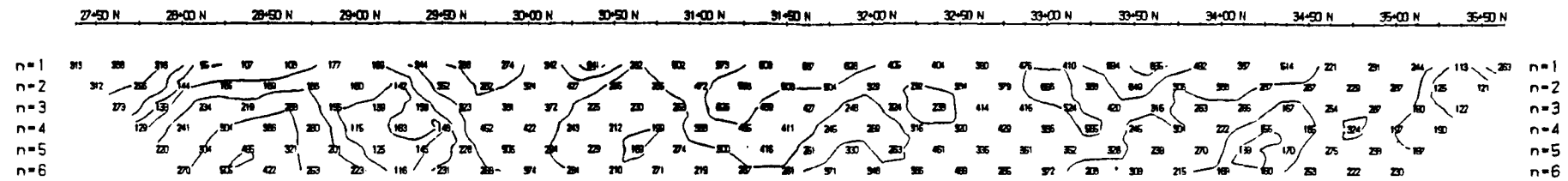
CORDILLERAN ENGINEERING

INDUCED POLARIZATION SURVEY

Dill (#1) Property  
Similkameen M.D., B.C.

Date: 89/07/05 N.T.S 92H/16  
Interpretation by: PAC/MJC  
Scale: 1 : 2500

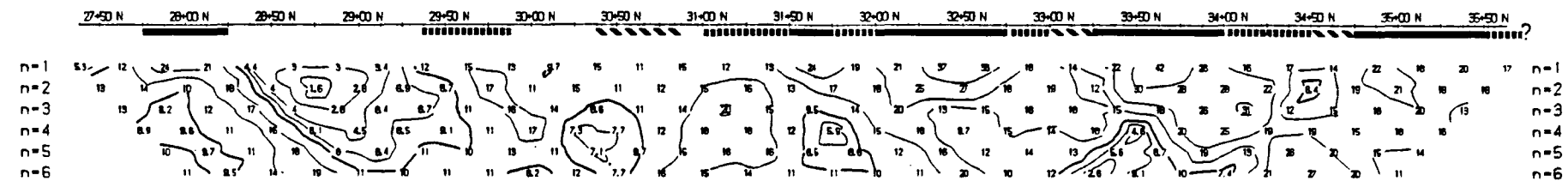
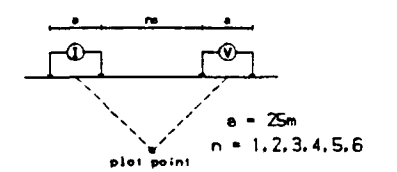
Pacific Geophysical



RESISTIVITY  
(ohm\_m)

Line 3100 W

Dipole-Dipole Array



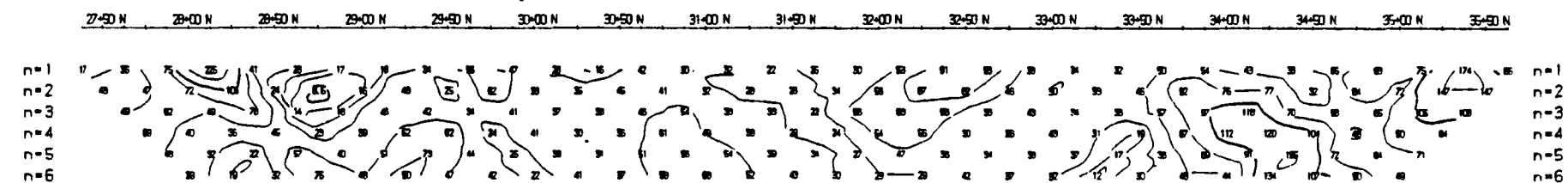
Chargeability  
(msec)

Logarithmic  
Contours 1, 1.5, 2, 3, 5, 7.5, 10, ...

Instrument : EDA IP 6  
Frequency : 2 sec  
Operator : PACIFIC

INTERPRETATION

- ▬ Strong increase in polarization
- ▬ Moderate increase in polarization
- ▬ Weak increase in polarization



METAL FACTOR  
(ip/res = 1000)

CORDILLERAN ENGINEERING

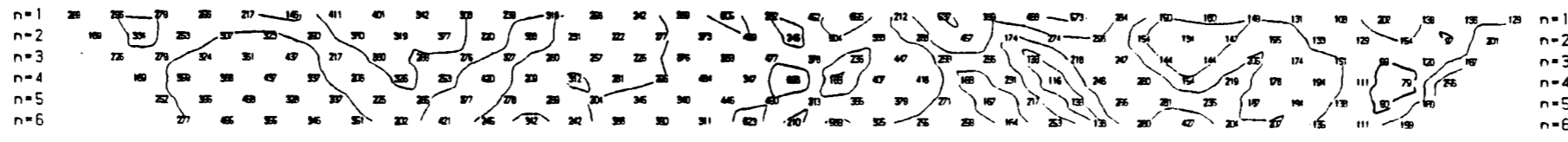
INDUCED POLARIZATION SURVEY

Dill (#1) Property  
Similkameen M.D., B.C.

Date: 89/07/05 N.T.S 92H/16  
Interpretation by: PAC/MJC  
Scale: 1 : 2500

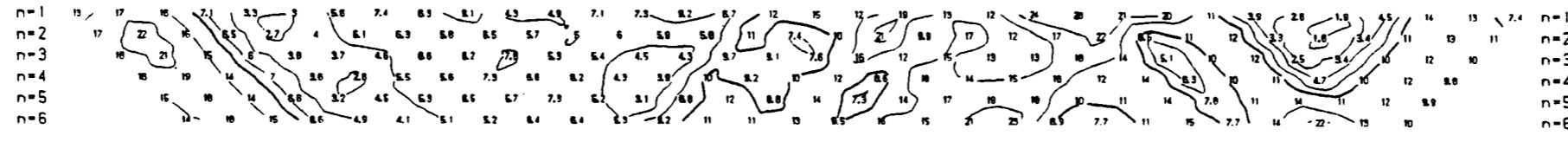
Pacific Geophysical

27-50 N 28-00 N 28-50 N 29-00 N 29-50 N 30-00 N 30-50 N 31-00 N 31-50 N 32-00 N 32-50 N 33-00 N 33-50 N 34-00 N 34-50 N 35-00 N 35-50 N



RESISTIVITY  
(ohm\_m)

27-50 N 28-00 N 28-50 N 29-00 N 29-50 N 30-00 N 30-50 N 31-00 N 31-50 N 32-00 N 32-50 N 33-00 N 33-50 N 34-00 N 34-50 N 35-00 N 35-50 N



Chargeability  
(msec)

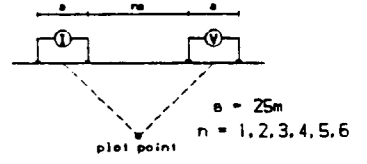
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METAL FACTOR  
(10/res = 1000)

Line 3000 W

Dipole-Dipole Array



Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10, ...

Instrument : EDA IP 6  
Frequency : 2 sec  
Operator : PACIFIC

INTERPRETATION

- ▬ Strong increase in polarization
- ▬▬▬▬ Moderate increase in polarization
- ▬▬▬ Weak increase in polarization

CORDILLERAN ENGINEERING

INDUCED POLARIZATION SURVEY

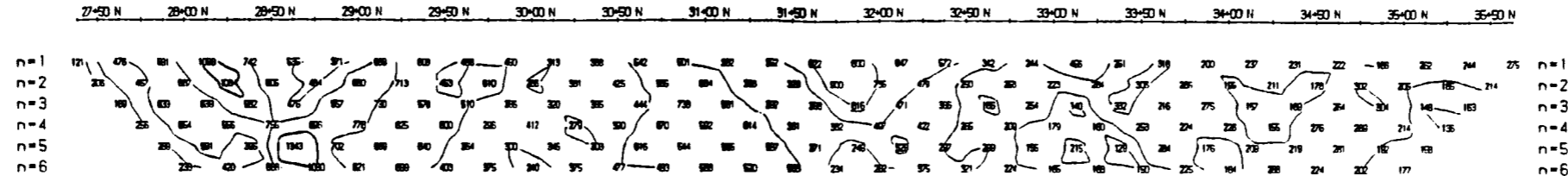
Dill (#1) Property  
Similkameen M.D., B.C.

Date: 89/07/05 N.T.S 92H/16  
Interpretation by: PAC/MJC  
Scale: 1 : 2500

Pacific Geophysical

GEUSOFT (La) Software for the Earth Sciences, Toronto, Canada

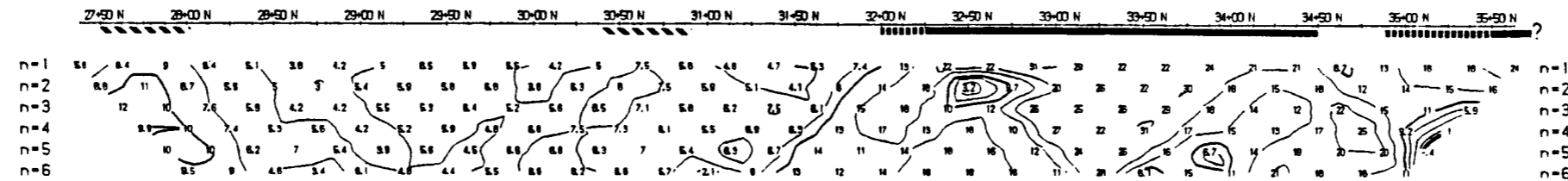
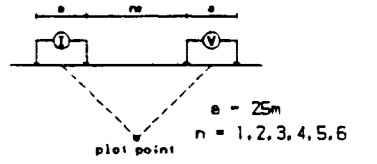




RESISTIVITY  
(ohm.m)

Line 2900 W

Dipole-Dipole Array



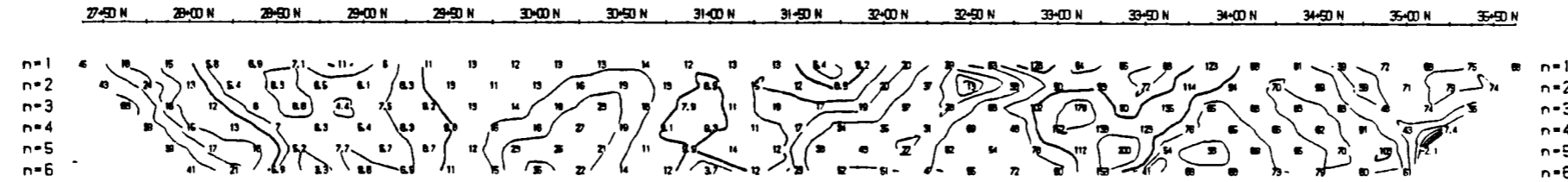
Chargeability  
(msec)

Logarithmic  
Contours 1, 1.5, 2, 3, 5, 7.5, 10, ...

Instrument : EDA IP 6  
Frequency : 2 sec  
Operator : PACIFIC

INTERPRETATION

- ▬ Strong increase in polarization
- ▬▬▬▬ Moderate increase in polarization
- ▬▬▬ Weak increase in polarization



METAL FACTOR  
(ip/res \* 1000)

CORDILLERAN ENGINEERING

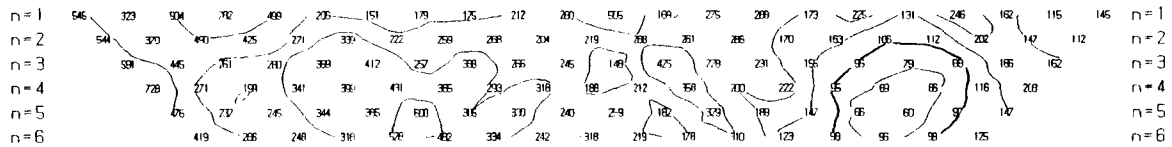
INDUCED POLARIZATION SURVEY

Dill (#1) Property  
Similkameen M.D., B.C.

Date: 89/07/05 N.T.S 92H/16  
Interpretation by: PAC/MJC  
Scale: 1 : 2500

Pacific Geophysical

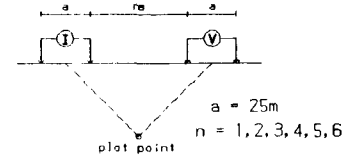
23+50 N 24+00 N 24+50 N 25+00 N 25+50 N 26+00 N 26+50 N 27+00 N 27+50 N 28+00 N 28+50 N



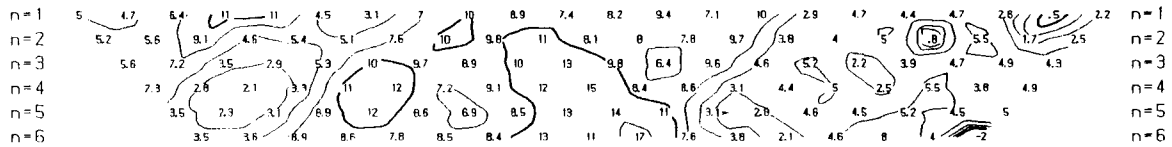
RESISTIVITY  
(ohm.m)

### Line 2500 W

Dipole-Dipole Array



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Chargeability  
(msec)

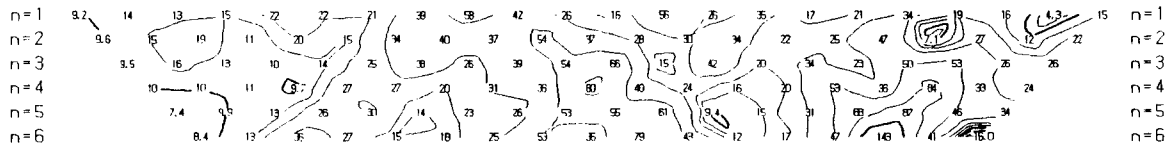
Logarithmic  
Contours 1, 1.5, 2, 3, 5, 7.5, 10, ...

Instrument : EDA IP 6  
Frequency : 2 sec  
Operator : PACIFIC

#### INTERPRETATION

- Strong increase in polarization
- Moderate increase in polarization
- Weak increase in polarization

23+50 N 24+00 N 24+50 N 25+00 N 25+50 N 26+00 N 26+50 N 27+00 N 27+50 N 28+00 N 28+50 N



METAL FACTOR  
(lp/res \* 1000)

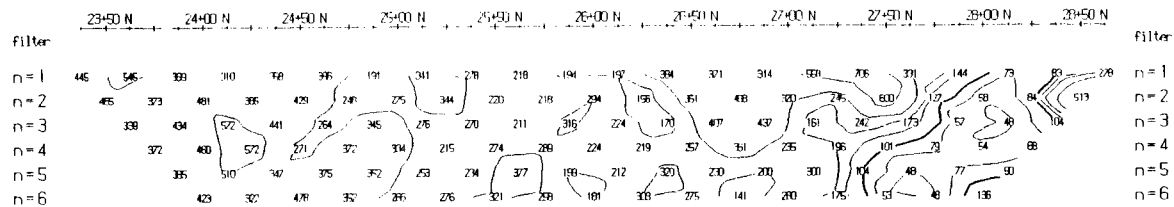
CORDILLERAN ENGINEERING

### INDUCED POLARIZATION SURVEY

Dill (#1) Property  
Similkameen M.D., B.C.

Date: 89/07/05 N.T.S 92H/16  
Interpretation by: PAC/MJC  
Scale: 1 : 2500

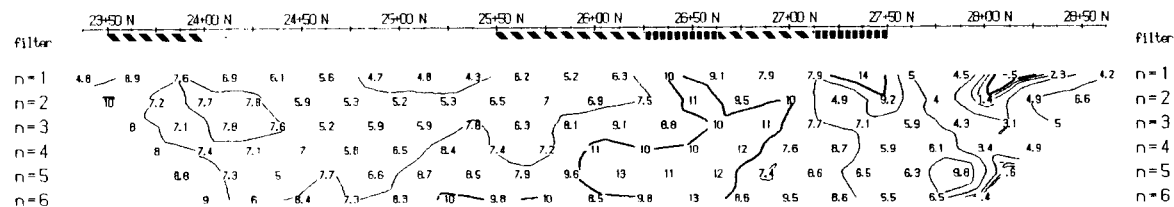
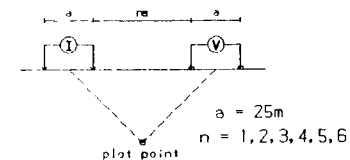
Pacific Geophysical



RESISTIVITY  
(ohm.m)

### Line 2400 W

Dipole-Dipole Array



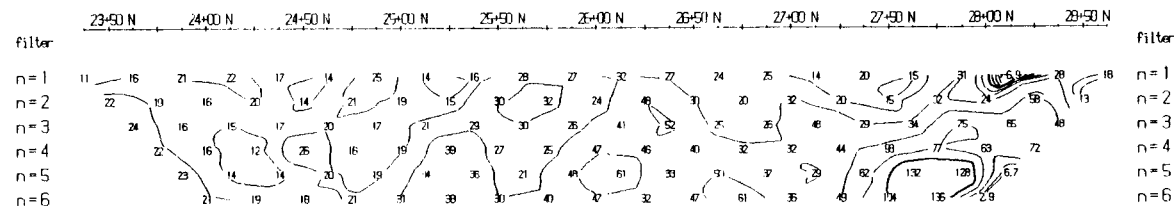
Chargeability  
(msec)

Logarithmic  
Contours 1, 1.5, 2, 3, 5, 7.5, 10, ...

Instrument : EDA IP 6  
Frequency : 2 sec  
Operator : PACIFIC

#### INTERPRETATION

- Strong increase in polarization
- Moderate increase in polarization
- Weak increase in polarization



METAL FACTOR  
(lp/res • 10000)

CORDILLERAN ENGINEERING

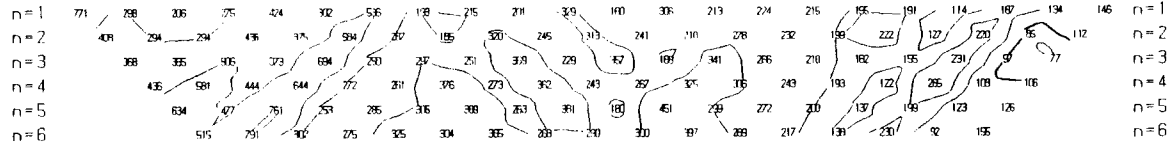
INDUCED POLARIZATION SURVEY

Dill (#1) Property  
Similkameen M.D., B.C.

Date: 89/07/05 N.T.S 92H/16  
Interpretation by: PAC/MJC  
Scale: 1 : 2500

Pacific Geophysical

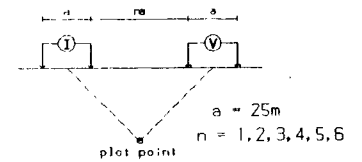
23:50 N 24:00 N 24:50 N 25:00 N 25:50 N 26:00 N 26:50 N 27:00 N 27:50 N 28:00 N 28:50 N



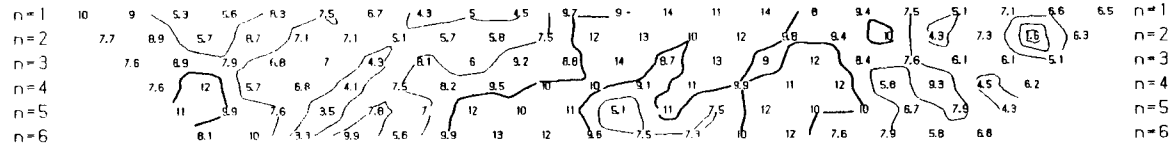
RESISTIVITY  
(ohm.m)

### Line 2300 W

Dipole-Dipole Array



23:50 N 24:00 N 24:50 N 25:00 N 25:50 N 26:00 N 26:50 N 27:00 N 27:50 N 28:00 N 28:50 N



Chargeability  
(msec)

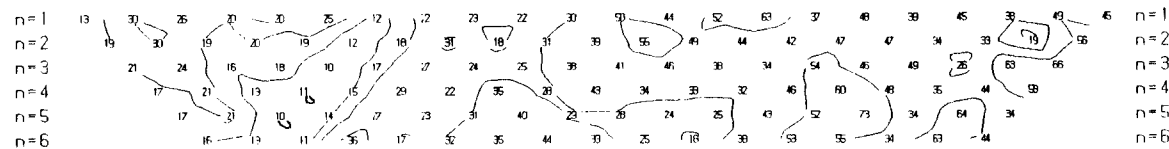
Logarithmic  
Contours 1, 1.5, 2, 3, 5, 7.5, 10, ...

Instrument : EDA IP 6  
Frequency : 2 msec  
Operator : PACIFIC

#### INTERPRETATION

- Strong increase in polarization
- Moderate increase in polarization
- Weak increase in polarization

23:50 N 24:00 N 24:50 N 25:00 N 25:50 N 26:00 N 26:50 N 27:00 N 27:50 N 28:00 N 28:50 N



METAL FACTOR  
(ip/res \* 1000)

CORDILLERAN ENGINEERING

INDUCED POLARIZATION SURVEY

Dill (#1) Property  
Similkameen M.D., B.C.

Date: 89/07/05 N.T.S 92H/16  
Interpretation by: PAC/MJC  
Scale: 1 : 2500

Pacific Geophysical



ACME ANALYTICAL LABORATORIES LTD.  
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PHONE(604)253-3158 FAX(604)253-1716

DATE RECEIVED: JUN 27 1989

DATE REPORT MAILED: *July 3/89.*

### GEOCHEMICAL ANALYSIS CERTIFICATE

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. AU DETECTION LIMIT BY ICP IS 3 PPM.  
- SAMPLE TYPE: Soil -80 Mesh AU\* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

SIGNED BY *C. Leong* D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

CORDILLERAN ENGINEERING PROJECT DILL PROJECT FILE # 89-1756 Page 1

SAMPLE#	Cu PPM	Au* PPB
3000W 1950N	81	7
3000W 1900N	120	2
3000W 1850N	165	5
3000W 1800N	120	4
3000W 1700N	73	5
3000W 1650N	36	5
3000W 1600N	60	4
3000W 1550N	53	5
3000W 1500N	59	2
3000W 1450N	48	2
3000W 1400N	61	4
3000W 1350N	77	1
3000W 1250N	63	1
3000W 1200N	170	6
3000W 1150N	93	3
3000W 1100N	59	3
3000W 1050N	65	2
3000W 1000N	68	2
3000W 0950N	46	4
3000W 0900N	42	3
3000W 0850N	48	1
3000W 0750N	64	2
3000W 0700N	58	1
3000W 0650N	90	17
3000W 0600N	67	3
3000W 0550N	72	3
3000W 0500N	62	3
3000W 0450N	72	2
3000W 0400N	52	1
3000W 0350N	37	1
3000W 0300N	97	2
3000W 0250N	82	8
3000W 0200N	80	4
3000W 0150N	73	1
3000W 0100N	71	2
3000W 0050N	74	4
STD C/AU-S	63	49

SAMPLE#	Cu PPM	Au* PPB
3000W 0000N	58	6
2800W 2000N	79	3
2800W 1950N	36	1
2800W 1900N	35	4
2800W 1850N	32	2
2800W 1800N	101	19
2800W 1700N	61	4
2800W 1650N	91	3
2800W 1600N	72	1
2800W 1550N	49	1
2800W 1500N	41	4
2800W 1450N	37	1
2800W 1400N	60	3
2800W 1350N	86	9
2800W 1300N	36	9
2800W 1250N	75	2
2800W 1200N	47	1
2800W 1150N	45	4
2800W 1100N	35	1
2800W 1050N	36	1
2800W 1000N	43	2
2800W 0950N	58	1
2800W 0900N	47	8
2800W 0850N	59	1
2800W 0800N	73	1
2800W 0750N	50	1
2800W 0700N	31	1
2800W 0650N	34	1
2800W 0600N	55	2
2800W 0500N	57	1
2800W 0450N	51	2
2800W 0400N	54	3
2800W 0350N	37	1
2800W 0300N	72	4
2800W 0250N	64	1
2800W 0200N	53	1
STD C/AU-S	62	49

SAMPLE#	Cu PPM	Au* PPB
2800W 0150N	53	3
2800W 0100N	55	8
2800W 0050N	61	2
2800W 0000N	50	2
2600W 2000N	48	4
2600W 1950N	46	3
2600W 1900N	53	4
2600W 1850N	69	3
2600W 1800N	74	2
2600W 1750N	54	4
2600W 1700N	70	3
2600W 1650N	55	1
2600W 1600N	46	4
2600W 1550N	31	7
2600W 1450N	239	5
2600W 1400N	91	1
2600W 1350N	47	4
2600W 1300N	48	4
2600W 1250N	50	2
2600W 1200N	57	4
2600W 1150N	51	2
2600W 1100N	58	2
2600W 1050N	42	4
2600W 1000N	51	2
2600W 0950N	51	1
2600W 0900N	40	1
2600W 0850N	61	5
2600W 0800N	54	2
2600W 0750N	47	2
2600W 0700N	41	2
2600W 0650N	62	1
2600W 0600N	81	1
2600W 0550N	46	1
2600W 0500N	56	1
2600W 0450N	50	2
2600W 0400N	72	2
STD C/AU-S	62	51



SAMPLE#	Cu PPM	Au* PPB
2600W 0350N	51	4
2600W 0250N	26	2
2600W 0200N	29	2
2600W 0150N	27	6
2600W 0100N	52	1
2600W 0050N	46	4
2600W 0000N	62	5
2400W 2000N	81	3
2400W 1951N	50	1
2400W 1950N	44	1
2400W 1900N	80	3
2400W 1850N	47	4
2400W 1800N	41	1
2400W 1750N	15	3
2400W 1700N	43	35
2400W 1650N	41	3
2400W 1600N	41	4
2400W 1550N	39	3
2400W 1500N	41	3
2400W 1450N	48	1
2400W 1400N	63	3
2400W 1350N	50	3
2400W 1300N	26	1
2400W 1250N	52	3
2400W 1200N	60	1
2400W 1150N	59	2
2400W 1100N	40	3
2400W 1050N	54	1
2400W 1000N	52	1
2400W 0950N	39	2
2400W 0900N	57	1
2400W 0850N	64	4
2400W 0800N	47	1
2400W 0750N	52	1
2400W 0700N	53	1
2400W 0650N	39	3
STD C/AU-S	60	49

SAMPLE#	Cu PPM	Au* PPB
2400W 0600N	43	3
2400W 0550N	48	3
2400W 0500N	37	3
2400W 0450N	43	2
2400W 0350N	47	1
2400W 0300N	30	1
2400W 0250N	36	6
2400W 0100N	47	3
2400W 0050N	57	2
2400W 0000N	54	5
2200W 2000N	51	5
2200W 1950N	54	6
2200W 1900N	71	4
2200W 1850N	45	1
2200W 1800N	65	4
2200W 1750N	49	1
2200W 1700N	42	6
2200W 1650N	29	4
2200W 1600N	27	2
2200W 1550N	40	3
2200W 1450N	50	2
2200W 1400N	33	1
2200W 1350N	36	1
2200W 1300N	47	2
2200W 1250N	22	2
2200W 1200N	55	1
2200W 1150N	61	3
2200W 1100N	48	1
2200W 1050N	42	1
2200W 1000N	58	2
2200W 0950N	64	1
2200W 0900N	72	5
2200W 0850N	36	1
2200W 0800N	27	2
2200W 0750N	59	1
2200W 0700N	70	1
STD C/AU-S	63	50

SAMPLE#	Cu PPM	Au* PPB
2200W 0650N	95	1
2200W 0550N	28	2
2200W 0500N	26	1
2200W 0450N	26	1
2200W 0400N	35	3
2200W 0350N	34	1
2200W 0300N	29	1
2200W 0250N	30	1
2200W 0200N	34	1
2200W 0150N	31	1
2200W 0100N	32	2
2200W 0050N	33	1
2200W 0000N	36	4
2000W 2500N	51	3
2000W 2400N	56	3
2000W 2350N	69	14
2000W 2300N	29	2
2000W 2250N	27	1
2000W 2200N	27	2
2000W 2150N	49	3
2000W 2100N	37	2
2000W 2050N	33	2
2000W 2000N	34	23
2000W 1950N	59	1
2000W 1900N	59	1
2000W 1850N	137	1
2000W 1800N	79	1
2000W 1650N	48	4
2000W 1600N	36	1
2000W 1550N	43	5
2000W 1500N	34	1
2000W 1450N	32	1
2000W 1400N	40	2
2000W 1350N	38	3
2000W 1300N	42	5
2000W 1250N	56	1
STD C/AU-S	60	49

SAMPLE#	Cu PPM	Au* PPB
2000W 1200N	45	4
2000W 1150N	36	1
2000W 1100N	41	1
2000W 1050N	31	6
2000W 1000N	37	3
2000W 0950N	73	1
2000W 0900N	100	4
2000W 0850N	63	6
2000W 0700N	36	1
2000W 0650N	50	1
2000W 0600N	31	3
2000W 0550N	36	4
2000W 0500N	29	4
2000W 0450N	32	17
2000W 0400N	21	2
2000W 0350N	41	1
2000W 0300N	45	2
2000W 0250N	24	1
2000W 0200N	28	1
2000W 0150N	31	3
2000W 0100N	33	2
2000W 0050N	28	3
2000W 0000N	23	1
1800W 2450N	33	4
1800W 2400N	26	1
1800W 2250N	43	4
1800W 2200N	78	4
1800W 2150N	44	6
1800W 2050N	50	3
1800W 2000N	32	3
1800W 1950N	26	16
1800W 1900N	26	7
1800W 1850N	25	79
1800W 1800N	69	4
1800W 1750N	22	6
1800W 1700N	40	11
STD C/AU-S	61	51

SAMPLE#	Cu PPM	Au* PPB
1800W 1650N	40	4
1800W 1600N	32	2
1800W 1550N	48	6
1800W 1500N	52	2
1800W 1450N	39	4
1800W 1400N	109	3
1800W 1350N	52	4
1800W 1300N	34	2
1800W 1250N	35	2
1800W 1200N	40	2
1800W 1150N	42	1
1800W 1100N	39	2
1800W 1050N	42	3
1800W 1000N	43	4
1800W 0950N	36	2
1800W 0900N	29	3
1800W 0850N	58	39
1800W 0800N	42	3
1800W 0750N	35	3
1800W 0700N	38	1
1800W 0650N	45	2
1800W 0600N	44	3
1800W 0550N	37	3
1800W 0500N	30	2
1800W 0450N	50	2
1800W 0400N	31	1
1800W 0350N	25	105
1800W 0300N	35	4
1800W 0250N	18	1
1800W 0200N	20	1
1800W 0150N	7	3
1800W 0100N	16	1
1800W 0050N	38	3
1800W 0000N	34	1
1600W 2200N	20	1
1600W 2150N	25	8
STD C/AU-S	61	51

SAMPLE#	Cu PPM	Au* PPB
1600W 2100N	60	2
1600W 2050N	28	3
1600W 2000N	24	16
1600W 1950N	25	1
1600W 1900N	25	5
1600W 1850N	39	7
1600W 1800N	33	2
1600W 1750N	33	34
1600W 1700N	87	5
1600W 1650N	42	3
1600W 1550N	32	2
1600W 1500N	43	2
1600W 1450N	77	6
1600W 1400N	52	1
1600W 1350N	59	4
1600W 1300N	38	1
1600W 1250N	24	3
1600W 1200N	30	3
1600W 1150N	71	5
1600W 1100N	36	2
1600W 1050N	64	4
1600W 1000N	40	3
1600W 0950N	31	3
1600W 0900N	25	5
1600W 0850N	50	4
1600W 0800N	87	2
1600W 0750N	13	3
1600W 0700N	18	1
1600W 0450N	40	3
1600W 0400N	21	1
1600W 0350N	24	12
1600W 0300N	40	1
1600W 0200N	18	3
1600W 0150N	31	1
1600W 0100N	25	3
1600W 0050N	13	1
STD C/AU-S	61	49

SAMPLE#	Cu PPM	Au* PPB
1600W 0000N	36	2
1400W 2500N	22	2
1400W 2450N	32	7
1400W 2400N	24	6
1400W 2350N	23	2
1400W 2300N	27	11
1400W 2250N	69	15
1400W 2200N	39	10
1400W 2150N	31	2
1400W 2100N	22	1
1400W 2050N	26	1
1400W 2000N	29	3
1400W 1950N	28	2
1400W 1900N	19	1
1400W 1850N	26	1
1400W 1800N	60	1
1400W 1750N	38	3
1400W 1600N	62	3
1400W 1550N	48	3
1400W 1500N	63	1
1400W 1450N	31	1
1400W 1400N	23	1
1400W 1350N	14	3
1400W 1300N	46	340
1400W 1250N	28	1
1400W 1200N	13	1
1400W 1150N	11	1
1400W 1100N	14	12
1400W 1050N	16	4
1400W 1000N	10	3
1400W 0950N	19	4
1400W 0900N	27	7
1400W 0850N	27	1
1400W 0800N	26	1
1400W 0750N	26	2
1400W 0700N	27	1
STD C/AU-S	60	51

SAMPLE#	Cu PPM	Au* PPB
1400W 0650N	34	6
1400W 0600N	38	1
1400W 0550N	42	17
1400W 0500N	17	2
1400W 0450N	19	1
1400W 0400N	29	1
1400W 0350N	36	3
1400W 0300N	22	1
1400W 0250N	14	2
1400W 0200N	24	5
1400W 0150N	15	12
1400W 0100N	21	4
1400W 0050N	19	1
1400W 0000N	29	1
1200W 2500N	22	1
1200W 2450N	30	2
1200W 2400N	50	7
1200W 2350N	31	54
1200W 2300N	37	12
1200W 2250N	31	26
1200W 2200N	35	3
1200W 2150N	38	3
1200W 2100N	41	2
1200W 2050N	61	1
1200W 2000N	50	1
1200W 1950N	35	4
1200W 1900N	38	6
1200W 1850N	41	34
1200W 1750N	20	1
1200W 1700N	24	2
1200W 1650N	67	8
1200W 1600N	31	1
1200W 1550N	30	2
1200W 1500N	32	3
1200W 1450N	28	40
1200W 1400N	36	3
STD C/AU-S	61	47



SAMPLE#	Cu PPM	Au* PPB
1200W 1350N	18	6
1200W 1300N	16	2
1200W 1250N	14	4
1200W 1200N	8	1
1200W 1100N	22	4
1200W 1050N	29	2
1200W 1000N	20	1
1200W 0950N	24	2
1200W 0900N	32	3
1200W 0850N	36	7
1200W 0800N	33	2
1200W 0750N	50	1
1200W 0700N	38	4
1200W 0650N	34	5
1200W 0600N	25	1
1200W 0550N	26	3
1200W 0500N	33	2
1200W 0450N	22	1
1200W 0400N	28	2
1200W 0350N	21	4
1200W 0300N	34	14
1200W 0250N	34	1
1200W 0200N	39	2
1200W 0150N	40	290
1200W 0100N	36	2
1200W 0050N	22	26
1200W 0000N	45	2
1000W 2450N	24	1
1000W 2400N	31	30
1000W 2350N	27	4
1000W 2300N	29	112
1000W 2250N	30	10
1000W 2200N	35	2
1000W 2150N	42	1
1000W 2100N	22	4
1000W 2050N	36	1
STD C/AU-S	61	51

SAMPLE#	Cu PPM	Au* PPB
1000W 2000N	35	2
1000W 1950N	24	4
1000W 1900N	12	7
1000W 1850N	23	1
1000W 1800N	17	3
1000W 1750N	16	16
1000W 1700N	38	2
1000W 1650N	25	1
1000W 1600N	20	1
1000W 1500N	19	2
1000W 1450N	34	2
1000W 1400N	18	3
1000W 1350N	24	2
1000W 1300N	14	14
1000W 1250N	20	4
1000W 1200N	25	2
1000W 1150N	14	1
1000W 1100N	25	8
1000W 1050N	38	3
1000W 1000N	13	1
1000W 0950N	30	2
1000W 0900N	19	1
1000W 0850N	29	9
1000W 0800N	23	3
1000W 0750N	18	10
1000W 0700N	23	3
1000W 0650N	22	1
1000W 0600N	32	4
1000W 0550N	19	2
1000W 0500N	18	1
1000W 0450N	18	1
1000W 0400N	17	2
1000W 0350N	19	1
1000W 0300N	24	2
1000W 0250N	20	10
1000W 0200N	40	3
STD C/AU-S	62	53

SAMPLE#	Cu PPM	Au* PPB
1000W 0150N	35	7
1000W 0100N	28	4
1000W 0050N	19	1
1000W 0000N	18	5

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DATE RECEIVED: JUN 27 1989

DATE REPORT MAILED: *June 30, 1989*

### GEOCHEMICAL ANALYSIS CERTIFICATE

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. AU DETECTION LIMIT BY ICP IS 3 PPM.  
- SAMPLE TYPE: Soil -80 Mesh AU\* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

SIGNED BY.. *D. Toye* D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

CORDILLERAN ENGINEERING PROJECT DILL PROJECT FILE # 89-1757 Page 1

SAMPLE#	Cu PPM	Au* PPB
3800W 6500N	28	3
3800W 6450N	33	3
3800W 6400N	38	1
3800W 6350N	38	1
3800W 6300N	17	1
3800W 6250N	34	1
3800W 6200N	46	1
3800W 6150N	38	1
3800W 6100N	33	6
3800W 6050N	38	1
3800W 6000N	35	1
3800W 5950N	24	4
3800W 5900N	28	4
3800W 5850N	34	1
3800W 5800N	67	2
3800W 5750N	61	1
3800W 5700N	42	1
3800W 5650N	169	2
3800W 5600N	50	1
3800W 5550N	36	3
3800W 5500N	29	1
3800W 5450N	30	1
3800W 5400N	39	1
3800W 5350N	32	6
3800W 5300N	29	2
3800W 5250N	77	1
3800W 5200N	36	2
3800W 5150N	30	2
3800W 5100N	35	2
3800W 5050N	32	3
3800W 5000N	26	2
3800W 4950N	23	5
3800W 4900N	27	2
3800W 4850N	53	1
3800W 4800N	32	2
3800W 4750N	34	3
STD C/AU-S	63	48

SAMPLE#	Cu PPM	Au* PPB
3800W 4700N	33	1
3800W 4650N	155	2
3800W 4600N	49	2
3800W 4550N	30	1
3800W 4500N	70	1
3800W 4450N	41	3
3800W 4400N	28	2
3800W 4350N	28	1
3800W 4300N	26	1
3800W 4250N	23	1
3800W 4200N	41	1
3800W 4150N	54	1
3800W 4100N	49	9
3800W 4050N	86	1
3800W 4000N	45	1
3600W 6500N	41	2
3600W 6450N	27	1
3600W 6400N	29	115
3600W 6350N	26	1
3600W 6300N	30	8
3600W 6250N	23	1
3600W 6200N	25	1
3600W 6150N	54	1
3600W 6100N	60	1
3600W 6050N	38	1
3600W 6000N	25	2
3600W 5950N	45	1
3600W 5900N	44	1
3600W 5850N	52	1
3600W 5800N	35	1
3600W 5750N	37	1
3600W 5700N	40	2
3600W 5650N	62	1
3600W 5600N	36	1
3600W 5550N	47	1
3600W 5500N	38	1
STD C/AU-S	61	53

SAMPLE#	Cu PPM	Au* PPB
3600W 5450N	31	3
3600W 5400N	25	2
3600W 5350N	50	1
3600W 5300N	55	1
3600W 5250N	42	2
3600W 5200N	44	1
3600W 5150N	38	1
3600W 5100N	38	3
3600W 5050N	41	2
3600W 5000N	30	3
3600W 4950N	35	3
3600W 4900N	25	1
3600W 4850N	38	1
3600W 4800N	36	2
3600W 4750N	33	2
3600W 4700N	35	1
3600W 4650N	53	1
3600W 4500N	29	2
3600W 4400N	29	1
3600W 4350N	25	5
3600W 4300N	39	1
3600W 4250N	34	1
3600W 4200N	23	2
3600W 4150N	37	6
3600W 4050N	33	1
3600W 4000N	37	4
3400W 6500N	11	1
3400W 6451N	17	1
3400W 6450N	19	1
3400W 6400N	9	1
3400W 6350N	24	1
3400W 6300N	27	1
3400W 6250N	30	1
3400W 6200N	26	1
3400W 6150N	35	8
3400W 6100N	28	1
STD C/AU-S	63	48

SAMPLE#	Cu PPM	Au* PPB
3400W 6050N	24	2
3400W 6000N	32	1
3400W 5950N	41	1
3400W 5900N	21	4
3400W 5850N	30	2
3400W 5800N	32	1
3400W 5750N	27	1
3400W 5700N	28	1
3400W 5650N	23	1
3400W 5600N	35	4
3400W 5550N	30	2
3400W 5500N	33	1
3400W 5450N	29	2
3400W 5400N	31	2
3400W 5150N	37	7
3400W 5100N	31	4
3400W 5050N	54	3
3400W 5000N	43	4
3400W 4950N	24	3
3400W 4900N	26	2
3400W 4850N	43	3
3400W 4800N	19	13
3400W 4750N	28	2
3400W 4700N	41	2
3400W 4650N	38	2
3400W 4550N	36	2
3400W 4500N	31	2
3400W 4450N	27	2
3400W 4400N	29	1
3400W 4350N	20	5
3400W 4300N	30	1
3400W 4250N	32	2
3400W 4200N	30	1
3400W 4150N	29	2
3400W 4100N	31	2
3400W 4050N	25	1
STD C/AU-S	61	47

SAMPLE#	Cu PPM	Au* PPB
3400W 4000N	33	9
3200W 6500N	19	12
3200W 6450N	16	1
3200W 6400N	15	8
3200W 6350N	17	8
3200W 6300N	17	1
3200W 6250N	25	8
3200W 6200N	31	11
3200W 6150N	24	21
3200W 6100N	30	4
3200W 6050N	29	8
3200W 6000N	31	5
3200W 5950N	40	11
3200W 5900N	28	15
3200W 5850N	27	14
3200W 5800N	26	3
3200W 5750N	26	1
3200W 5700N	31	14
3200W 5650N	44	1
3200W 5600N	59	3
3200W 5550N	42	9
3200W 5500N	32	7
3200W 5450N	63	6
3200W 5150N	35	1
3200W 5100N	99	5
3200W 5050N	33	2
3200W 5000N	61	8
3200W 4950N	27	10
3200W 4900N	44	5
3200W 4850N	38	6
3200W 4800N	33	9
3200W 4750N	32	10
3200W 4700N	49	9
3200W 4650N	190	11
3200W 4600N	168	5
3200W 4550N	45	4
STD C/AU-S	62	53



SAMPLE#	Cu PPM	Au* PPB
3200W 4500N	37	4
3200W 4450N	26	2
3200N 4350N	43	2
3200N 4300N	53	6
3200N 4250N	33	10
3200N 4200N	34	1
3200N 4150N	35	3
3200N 4100N	32	3
3200N 4050N	32	2
3200N 4000N	34	2
3000W 6500N	29	1
3000W 6450N	20	1
3000W 6400N	17	12
3000W 6350N	19	1
3000W 6300N	24	2
3000W 6250N	14	1
3000W 6200N	15	550
3000W 6150N	21	2
3000W 6050N	32	2
3000W 6000N	31	1
3000W 5950N	30	1
3000W 5900N	31	1
3000W 5800N	26	9
3000W 5750N	41	1
3000W 5700N	27	9
3000W 5650N	38	1
3000W 5600N	48	3
3000W 5550N	27	1
3000W 5250N	45	1
3000W 5200N	35	2
3000W 5100N	41	1
3000W 5050N	27	1
3000W 5000N	69	4
3000W 4950N	56	2
3000W 4900N	50	1
3000W 4850N	48	1
STD C/AU-S	63	50

SAMPLE#	Cu PPM	Au* PPB
3200W 4800N	28	1
3200W 4750N	38	2
3200W 4700N	42	1
3200W 4650N	72	3
3200W 4600N	39	29
3200W 4550N	31	3
3200W 4500N	31	2
3200W 4450N	22	3
3200W 4400N	62	1
3200W 4350N	36	3
3200W 4300N	35	11
3200W 4250N	29	1
3200W 4100N	38	3
3200W 4050N	31	3
2800W 6475N	27	2
2800W 6450N	31	2
2800W 6350N	16	1
2800W 6300N	23	1
2800W 6250N	23	4
2800W 6200N	11	1
2800W 6150N	11	2
2800W 6100N	17	1
2800W 6050N	33	2
2800W 6000N	24	5
2800W 5950N	28	3
2800W 5900N	31	3
2800W 5850N	42	3
2800W 5800N	31	1
2800W 5750N	29	1
2800W 5700N	33	1
2800W 5650N	32	1
2800W 5600N	38	2
2800W 5550N	33	3
2800W 5400N	20	1
2800W 5350N	32	3
2800W 5300N	36	3
STD C/AU-S	62	49

SAMPLE#	Cu PPM	Au* PPB
2800W 5250N	37	4
2800W 5200N	35	5
2800W 5150N	33	6
2800W 5100N	36	2
2800W 5050N	26	2
2800W 5000N	60	7
2800W 4950N	56	7
2800W 4900N	41	3
2800W 4850N	32	3
2800W 4800N	55	3
2800W 4750N	85	1
2800W 4700N	52	1
2800W 4650N	40	2
2800W 4600N	60	1
2800W 4500N	44	1
2800W 4450N	33	4
2800W 4350N	36	5
2800W 4300N	31	1
2800W 4250N	29	1
2800W 4200N	30	5
2800W 4150N	29	3
2800W 4100N	35	1
2800W 4050N	34	1
2600W 6500N	32	2
2600W 6350N	24	3
2600W 6300N	22	1
2600W 6250N	25	2
2600W 6200N	36	3
2600W 6150N	27	3
2600W 6100N	23	7
2600W 6050N	20	1
2600W 6000N	20	1
2600W 5950N	15	1
2600W 5900N	17	1
2600W 5850N	30	6
2600W 5750N	23	1
STD C/AU-S	60	48

SAMPLE#	Cu PPM	Au* PPB
2600W 5700N	25	3
2600W 5650N	34	1
2600W 5600N	31	5
2600W 5550N	28	2
2600W 5500N	31	2
2600W 5350N	40	2
2600W 5300N	41	4
2600W 5250N	38	1
2600W 5200N	36	3
2600W 5150N	39	8
2600W 5100N	51	1
2600W 5050N	58	3
2600W 5000N	41	4
2600W 4950N	49	4
2600W 4900N	37	2
2600W 4850N	41	5
2600W 4800N	100	1
2600W 4750N	51	1
2600W 4700N	43	1
2600W 4650N	54	2
2600W 4600N	96	1
2600W 4500N	23	1
2600W 4450N	47	4
2600W 4400N	46	3
2600W 4350N	50	3
2600W 4300N	19	1
2600W 4200N	37	2
2600W 4150N	29	1
2600W 4100N	32	1
2600W 4050N	42	1
2600W 4000N	29	2
2400W 6500N	32	3
2400W 6350N	36	4
2400W 6200N	20	5
2400W 6150N	27	1
2400W 6100N	30	3
STD C/AU-S	63	51

SAMPLE#	Cu PPM	Au* PPB
2400W 6050N	32	7
2400W 6000N	27	2
2400W 5950N	22	2
2400W 5900N	36	4
2400W 5850N	41	2
2400W 5800N	25	1
2400W 5750N	31	1
2400W 5700N	21	5
2400W 5650N	22	3
2400W 5600N	21	2
2400W 5550N	33	2
2400W 5500N	54	1
2400W 5250N	38	2
2400W 5200N	36	2
2400W 5150N	34	4
2400W 5100N	33	1
2400W 5050N	49	1
2400W 5000N	28	1
2400W 4950N	39	1
2400W 4900N	43	1
2400W 4850N	38	1
2400W 4800N	30	1
2400W 4750N	50	1
2400W 4700N	62	6
2400W 4650N	41	2
2400W 4600N	41	4
2400W 4550N	37	1
2400W 4500N	50	1
2400W 4350N	29	2
2400W 4300N	31	1
2400W 4200N	29	1
2400W 4150N	29	1
2400W 4100N	46	1
2400W 4050N	29	1
2400W 4000N	45	1
2200W 6450N	28	1
STD C/AU-S	63	52

SAMPLE#	Cu PPM	Au* PPB
2200W 6400N	21	5
2200W 6350N	17	1
2200W 6300N	33	14
2200W 6250N	21	2
2200W 6200N	28	1
2200W 6150N	29	1
2200W 6100N	29	1
2200W 6050N	49	6
2200W 6000N	32	2
2200W 5950N	32	2
2200W 5900N	33	2
2200W 5850N	45	1
2200W 5800N	14	4
2200W 5750N	23	1
2200W 5700N	26	3
2200W 5650N	29	1
2200W 5600N	27	1
2200W 5550N	23	1
2200W 5500N	24	2
2200W 5150N	31	2
2200W 5100N	34	1
2200W 5050N	87	2
2200W 5000N	48	1
2200W 4950N	41	2
2200W 4850N	40	2
2200W 4800N	30	3
2200W 4750N	54	1
2200W 4700N	53	2
2200W 4650N	52	1
2200W 4600N	50	1
2200W 4550N	46	1
2200W 4500N	54	1
2200W 4450N	42	4
2200W 4400N	49	2
2200W 4350N	31	1
2200W 4300N	26	1
STD C/AU-S	63	51

SAMPLE#	Cu PPM	Au* PPB
2200W 4250N	23	5
2200W 4200N	28	1
2200W 4150N	28	1
2200W 4100N	25	97
2200W 4050N	26	1
2200W 4000N	33	2
2000W 6500N	28	1
2000W 6450N	35	1
2000W 6400N	21	2
2000W 6350N	24	4
2000W 6300N	28	2
2000W 6250N	23	1
2000W 6200N	33	2
2000W 6150N	34	2
2000W 6050N	20	21
2000W 6000N	47	15
2000W 5950N	33	3
2000W 5900N	28	4
2000W 5850N	25	1
2000W 5800N	19	2
2000W 5750N	25	2
2000W 5700N	24	1
2000W 5650N	26	37
2000W 5600N	30	5
2000W 5550N	26	4
2000W 5500N	22	1
2000W 5450N	28	12
2000W 5400N	36	3
2000W 5100N	28	2
2000W 5050N	51	11
2000W 5000N	34	2
2000W 4950N	35	4
2000W 4900N	60	6
2000W 4850N	45	1
2000W 4800N	37	4
2000W 4750N	350	3
STD C/AU-S	62	50

SAMPLE#	Cu PPM	Au* PPB
2000W 4700N	37	3
2000W 4650N	54	2
2000W 4600N	40	3
2000W 4550N	41	1
2000W 4500N	34	1
2000W 4450N	79	1
2000W 4400N	49	20
2000W 4300N	47	1
2000W 4250N	48	1
2000W 4200N	37	1
2000W 4150N	25	4
2000W 4100N	31	1
2000W 4050N	28	3
2000W 4000N	29	1
STD C/AU-S	62	49



JUL 0 6 89

ACME ANALYTICAL LABORATORIES LTD. DATE RECEIVED: JUN 30 1989  
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6  
PHONE(604)253-3158 FAX(604)253-1716 DATE REPORT MAILED: *July 5/89*

### GEOCHEMICAL ANALYSIS CERTIFICATE

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. AU DETECTION LIMIT BY ICP IS 3 PPM.  
- SAMPLE TYPE: ROCK AU\* ANALYSIS BY ACID LEACH/AA FROM 20 GM SAMPLE.

SIGNED BY *C. Long* D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

CORDILLERAN ENGINEERING PROJECT DILL FILE # 89-1878

SAMPLE#	Cu PPM	Au* PPB
D891-1	196	11
D891-2	467	27
D891-3	1773	410
D891-4	346	9
D891-5	211	11
D891-6	268	12
D891-7	240	6
D891-8	198	9
D891-9	258	12
D891-10	97	5
D891-11	141	8
D891-12	165	10
D891-13	111	1
D891-14	143	2
D891-15	211	4
D891-16	113	6
D891-17	83	6
D891-18	76	6
D891-19	88	6
D891-20	75	7
D891-21	88	4
D891-22	59	8
D891-23	57	3
D891-24	104	5
D891-25	136	9
D891-26	75	5
D891-27	101	5
D891-28	104	8
D891-29	78	6
D891-30	68	4
D891-31	53	5
D891-32	33	4
D891-33	48	41
STD C/AU-R	60	510

ACME ANALYTICAL LABORATORIES LTD.  
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DATE RECEIVED: JUL 7 1989

DATE REPORT MAILED: *July 12/89.*

### GEOCHEMICAL ANALYSIS CERTIFICATE

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. AU DETECTION LIMIT BY ICP IS 3 PPM.  
- SAMPLE TYPE: Soil -80 Mesh AU\* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

SIGNED BY *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

CORDILLERAN ENGINEERING PROJECT DILL #6(DG-1) FILE # 89-2003

SAMPLE#	Cu PPM	Au* PPB
3050W 3025N	60	8
3050W 2975N	61	10
3050W 2925N	83	11
3050W 2875N	72	4
3050W 2825N	122	3
3050W 2775N	125	24
3050W 2725N	150	12
3050W 2675N	80	3
2950W 3025N	636	10
2950W 2975N	145	18
2950W 2925N	543	1
2950W 2875N	115	6
2950W 2825N	72	23
2950W 2775N	157	96
2950W 2725N	109	17
2950W 2675N	100	2
2900W 3025N	50	2
2900W 2975N	78	17
2900W 2925N	175	16
2900W 2875N	31	17
2900W 2825N	48	1
2900W 2775N	55	37
2900W 2725N	140	38
2900W 2675N	188	5
STD C/AU-S	60	52

ACME ANALYTICAL LABORATORIES LTD.  
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DATE RECEIVED: JUL 7 1989  
DATE REPORT MAILED: July 12/89

### GEOCHEMICAL ANALYSIS CERTIFICATE

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. AU DETECTION LIMIT BY ICP IS 3 PPM.  
- SAMPLE TYPE: ROCK AU\* ANALYSIS BY ACID LEACH/AA FROM 20 GM SAMPLE.

SIGNED BY *C. Long* D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

DL 12.89

CORDILLERAN ENGINEERING PROJECT DILL PROJECT FILE # 89-2011 Page 1

SAMPLE#	Cu PPM	AU* PPB
D892-1	66	8
D892-2	53	14
D892-3	85	12
D892-4	94	13
D892-5	101	10
D892-6	68	7
D892-7	42	5
D892-8	79	6
D892-9	41	6
D892-10	47	9
D892-11	36	4
D892-12	76	10
D892-13	71	4
D892-14	81	8
D892-15	89	9
D892-16	63	6
D892-17	144	4
D892-18	79	7
D892-19	72	5
D892-20	162	7
D892-21	62	12
D892-22	85	6
D892-23	122	11
D892-24	92	5
D892-25	357	19
D892-26	92	10
D892-27	55	6
D892-28	72	8
D892-29	82	7
D892-30	122	12
D892-31	98	5
D892-32	90	6
D892-33	134	7
D892-34	34	4
D892-35	47	1
D892-36	71	3
STD C/AU-R	63	490

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

DATE RECEIVED: JUL 7 1989  
DATE REPORT MAILED: *July 12/89.*

### GEOCHEMICAL ANALYSIS CERTIFICATE

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. AU DETECTION LIMIT BY ICP IS 3 PPM.  
- SAMPLE TYPE: ROCK AU\* ANALYSIS BY ACID LEACH/AA FROM 20 GM SAMPLE.

SIGNED BY *C. Long*. D.TOYE, C.LRONG, J.WANG; CERTIFIED B.C. ASSAYERS

CORDILLERAN ENGINEERING PROJECT DILL PROJECT FILE # 89-2012 Page 1

SAMPLE#	Cu PPM	Au* PPB
D894-1	5	3
D894-2	9	4
D894-3	5	1
D894-4	6	1
D894-5	47	5
D894-6	105	2
D894-7	137	1
D894-8	133	3
D894-9	165	3
D894-10	214	1
D894-11	175	5
D894-12	123	2
D894-13	242	4
D894-14	173	2
D894-15	487	24
D894-16	408	11
D894-17	340	3
D894-18	229	3
D894-19	361	6
D894-20	355	11
D894-21	301	7
D894-22	400	5
D894-23	394	6
D894-24	629	18
D894-25	277	6
D894-26	563	7
D894-27	522	19
D894-28	348	9
D894-29	514	11
D894-30	368	7
D894-31	201	3
D894-32	259	5
D894-33	355	7
D894-34	355	9
D894-35	281	13
D894-36	287	9
STD C/AU-R	63	470

SAMPLE#	Cu PPM	Au* PPB
D894-37	316	10
D894-38	313	33
D894-39	413	34
D894-40	457	39
D894-41	474	45
D894-42	652	30
D894-43	414	23
D894-44	490	25
D894-45	142	9
D894-46	80	5
D894-47	175	31
STD C/AU-R	62	490

ACME ANALYTICAL LABORATORIES LTD.  
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PHONE(604)253-3158 FAX(604)253-1716

DATE RECEIVED: JUL 14 1989

DATE REPORT MAILED: *July 20/89.*

### GEOCHEMICAL ANALYSIS CERTIFICATE

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. AU DETECTION LIMIT BY ICP IS 3 PPM.  
- SAMPLE TYPE: P1-P2 ROCK P3-P4 SOIL AU\*\* ANALYSIS BY FA+AA FROM 20 GM SAMPLE.

SIGNED BY... *C. Long* ... D.TOYK, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

JUL 21 1989

CORDILLERAN ENGINEERING LTD. PROJECT DILL #7 FILE # 89-2177 Page 1

SAMPLE#	Cu PPM	Au** PPB
D893-1	138	4
D893-2	179	2
D893-3	127	12
D893-4	127	9
D893-5	104	12
D893-6	138	22
D893-7	131	5
D893-8	41	3
D893-9	38	4
D893-10	28	2
D893-11	39	3
D893-12	99	6
D893-13	180	16
D893-14	165	11
D893-15	61	2
D893-16	98	6
D893-17	93	5
D893-18	88	4
D893-19	137	4
D893-20	193	17
D893-21	114	8
D896-1	481	6
D896-2	140	8
D896-3	166	20
D896-4	241	20
D896-5	294	38
D896-6	271	59
D896-7	128	20
D896-8	132	16
D896-9	100	6
D896-10	80	2
D896-11	57	1
D896-12	1714	112
D896-13	4436	281
D896-13B	1328	192
D896-14	2012	74
STD C/AU-R	63	480

SAMPLE#	Cu PPM	Au** PPB
D896-15	497	45
D896-16	379	28
D896-17	407	34
D896-18	297	26
D896-19	310	28
D896-20	94	16
D896-21	250	13
D896-22	1155	128
D896-23	392	24
D896-24	261	40
D896-25	419	32
D896-26	607	52
D896-27	1381	273
D896-28	619	54
D896-29	515	59
D896-30	254	13
D896-31	294	34
D896-32	289	16
D896-33	700	20
D896-34	550	26
D896-35	335	49
D896-36	579	21
D896-37	387	14
D896-38	500	82
D896-39	611	50
D896-40	446	24
STD C/AU-R	63	490

SAMPLE#	Cu PPM	Au* PPB
2100W 2100N	29	1
2100W 2050N	38	1
2100W 2000N	32	1
2100W 1950N	61	5
2100W 1900N	43	1
2100W 1850N	46	1
2100W 1800N	52	2
2100W 1750N	48	1
2050W 2100N	62	3
2050W 2050N	51	3
2050W 2000N	39	1
2050W 1950N	22	3
2050W 1900N	33	1
2050W 1850N	36	2
2050W 1800N	78	1
2050W 1750N	54	1
1950W 2050N	45	1
1950W 2000N	70	3
1950W 1950N	37	1
1950W 1900N	37	1
1950W 1800N	42	25
1950W 1750N	47	8
1900W 2050N	56	3
1900W 2000N	41	3
1900W 1950N	41	1
1900W 1900N	91	1
1900W 1850N	38	1
1900W 1800N	36	1
1900W 1750N	39	1
1900W 1700N	43	2
1900W 1650N	44	1
1850W 2050N	88	4
1850W 2000N	38	1
1850W 1950N	80	4
1850W 1900N	27	3
1850W 1850N	28	3
STD C/AU-S	57	53



SAMPLE#	Cu PPM	Au* PPB
1850W 1800N	31	11
1850W 1750N	59	10
1850W 1700N	24	14
1850W 1650N	33	9
1650W 2050N	32	8
1650W 2000N	28	12
1650W 1950N	28	10
1650W 1900N	30	5
1650W 1850N	25	4
1650W 1800N	24	16
1650W 1700N	37	8
1650W 1650N	23	2
1550W 2050N	24	7
1550W 2000N	42	4
1550W 1900N	39	14
1550W 1750N	28	6
1550W 1700N	42	5
1550W 1650N	31	7
1500W 2000N	28	30
1500W 1950N	32	10
1500W 1900N	33	9
1500W 1850N	29	12
1500W 1700N	73	4
1500W 1650N	28	9
STD C/AU-S	59	48

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

DATE RECEIVED: JUL 18 1989

DATE REPORT MAILED: *July 28/89*

### GEOCHEMICAL ANALYSIS CERTIFICATE

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. AU DETECTION LIMIT BY ICP IS 3 PPM.  
- SAMPLE TYPE: ROCK AU\*\* ANALYSIS BY FA+AA FROM 20 GM SAMPLE.

SIGNED BY... *C. Leung* D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

31

CORDILLERAN ENGINEERING LTD. PROJECT DILL #8 FILE # 89-2279 Page 1

SAMPLE#	Cu PPM	Au** PPB
D896-41	481	24
D896-42	651	19
D896-43	573	22
D896-44	230	16
D896-45	649	29
D896-46	190	15
D896-47	239	15
D896-48	196	23
D896-49	151	102
D896-50	23	22
D896-51	15	14
D896-52	80	8
D896-54	462	97
D896-55	397	21
D896-56	302	24
D896-57	163	23
D896-58	127	11
D896-59	181	23
D896-60	400	103
D896-61	311	28
D896-62	600	31
D896-63	453	36
D896-64	363	30
D896-65	383	73
D896-66	615	46
D896-67	544	54
D896-68	280	37
D896-69	171	16
D896-70	191	25
D896-71	331	31
D896-72	288	19
D896-73	195	18
D896-74	683	71
D896-75	450	28
D896-76	361	28
D896-77	293	21
STD C/AU-R	58	530

SAMPLE#	Cu PPM	AU** PPB
D896-78	115	42
D896-79	458	26
D896-80	659	41
D896-81	306	34
D896-82	312	14
D896-83	143	25
D896-84	171	15
D896-85	290	47
D896-86	235	19
D896-87	230	20
D896-88	302	50
D896-89	343	53
D896-90	422	27
D896-91	529	71
D896-92	242	126
D896-93	435	37
D896-94	316	31
STD C/AU-R	63	520

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

DATE RECEIVED: JUL 20 1989

DATE REPORT MAILED: *July 25/89.*

### GEOCHEMICAL ANALYSIS CERTIFICATE

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. AU DETECTION LIMIT BY ICP IS 3 PPM.  
- SAMPLE TYPE: Soil -80 Mesh AU\* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

SIGNED BY *C. Leong*. D.TOYE. C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS *JUL 26 89*

CORDILLERAN ENGINEERING LTD. PROJECT DILL #10 FILE # 89-2320 Page 1

SAMPLE#	Cu PPM	AU* PPB
3500W 4900N	22	3
3500W 4850N	28	2
3500W 4800N	32	2
3500W 4750N	34	4
3500W 4700N	25	1
3450W 4900N	18	1
3450W 4850N	20	4
3450W 4800N	39	1
3450W 4750N	32	4
3450W 4700N	51	1
3350W 4900N	22	1
3350W 4800N	32	4
3350W 4750N	17	4
3350W 4700N	32	1
3250W 4900N	28	1
3250W 4850N	26	2
3250W 4800N	25	4
3250W 4650N	29	4
3100W 4900N	68	3
3100W 4850N	56	1
3100W 4800N	43	3
3100W 4750N	45	1
3100W 4700N	18	5
3100W 4600N	27	2
3100W 4500N	27	3
3050W 4800N	38	7
3050W 4750N	31	1
3050W 4700N	43	2
3050W 4500N	25	1
2950W 4700N	43	3
2950W 4650N	68	1
2950W 4600N	51	3
2950W 4550N	27	2
2950W 4500N	29	4
2900W 4700N	32	1
2900W 4650N	52	3
STD C/AU-S	59	49

SAMPLE#	Cu PPM	Au* PPB
2900W 4550N	45	5
2900W 4500N	38	45
2500W 1800N	62	5
2500W 1750N	65	2
2500W 1700N	36	1
2500W 1650N	20	1
2500W 1600N	53	1
2450W 1800N	53	6
2450W 1750N	52	5
2450W 1700N	52	9
2450W 1650N	42	4
2450W 1600N	50	1
2350W 1800N	37	3
2350W 1700N	56	2
2350W 1650N	26	4
2300W 4200N	43	4
2300W 4150N	27	7
2300W 4100N	30	1
2300W 4050N	29	1
2300W 4000N	32	1
2300W 1800N	19	2
2300W 1750N	37	2
2300W 1700N	52	3
2300W 1650N	48	1
2300W 1600N	9	1
2250W 4200N	21	3
2250W 4150N	27	1
2250W 4100N	24	1
2250W 4050N	32	2
2250W 4000N	35	1
2150W 4200N	28	1
2150W 4150N	30	1
2150W 4100N	19	1
2150W 4050N	29	3
2150W 4000N	35	1
2100W 6150N	27	2
STD C/AU-S	57	52

SAMPLE#	Cu PPM	AU* PPB
2100W 6100N	16	2
2100W 6050N	17	1
2100W 6000N	25	1
2100W 5950N	41	3
2100W 5900N	35	3
2100W 5750N	34	4
2100W 5700N	39	1
2100W 5650N	34	3
2100W 5600N	25	247
2100W 5550N	27	3
2100W 4500N	47	1
2100W 4450N	28	2
2100W 4400N	31	2
2100W 4350N	43	4
2100W 4300N	29	3
2100W 4200N	28	4
2100W 4150N	25	2
2100W 4100N	21	1
2100W 4050N	20	3
2100W 4000N	36	2
2100W 500N	34	1
2100W 450N	34	2
2100W 400N	19	2
2050W 6150N	23	1
2050W 6100N	15	1
2050W 6050N	24	2
2050W 6000N	24	2
2050W 5950N	44	4
2050W 5900N	23	1
2050W 5750N	17	2
2050W 5700N	19	17
2050W 5650N	34	2
2050W 5550N	31	1
2050W 4500N	47	15
2050W 4450N	55	4
2050W 4400N	66	7
STD C/AU-S	61	49

SAMPLE#	Cu PPM	AU* PPB
2050W 4350N	46	1
2050W 4300N	29	1
2050W 500N	25	3
2050W 450N	14	1
2050W 400N	17	4
1950W 6150N	23	2
1950W 6100N	4	2
1950W 6050N	33	1
1950W 6000N	21	6
1950W 5950N	18	4
1950W 5900N	17	1
1950W 5750N	16	6
1950W 5700N	15	3
1950W 5650N	20	5
1950W 5600N	23	7
1950W 4500N	35	6
1950W 4456N	32	4
1950W 4400N	32	1
1950W 4350N	27	3
1950W 4300N	32	1
1950W 500N	24	4
1950W 450N	15	7
1950W 400N	18	1
1950W 350N	30	1
1950W 300N	14	6
1900W 6150N	15	6
1900W 6100N	22	3
1900W 6050N	15	4
1900W 6000N	7	5
1900W 5950N	27	2
1900W 5900N	19	4
1900W 5750N	20	1
1900W 5700N	17	2
1900W 5650N	13	1
1900W 5600N	18	1
1900W 5550N	15	4
STD C/AU-S	61	49

SAMPLE#	Cu PPM	Au* PPB
1900W 4500N	33	1
1900W 4450N	46	2
1900W 4400N	46	3
1900W 4350N	41	16
1900W 4300N	46	3
1900W 900N	49	1
1900W 850N	59	1
1900W 800N	35	2
1900W 750N	29	2
1900W 450N	31	2
1900W 400N	35	3
1900W 350N	22	1
1900W 300N	28	3
1850W 950N	48	2
1850W 900N	32	3
1850W 850N	32	2
1850W 800N	36	2
1850W 750N	27	2
1850W 500N	24	4
1850W 450N	24	3
1850W 400N	34	1
1850W 350N	31	1
1850W 300N	18	1
1750W 900N	44	4
1750W 850N	48	12
1750W 800N	39	4
1750W 750N	36	6
1700W 950N	49	1
1700W 900N	39	2
1700W 850N	53	1
1700W 800N	25	1
1700W 750N	17	1
1700W 450N	43	1
1700W 400N	33	3
1700W 350N	25	2
1700W 300N	22	3
STD C/AU-S	60	47



SAMPLE#	Cu PPM	Au* PPB
1700W 250N	26	1
1700W 200N	24	3
1650W 400N	42	1
1650W 350N	41	1
1650W 300N	45	1
1650W 250N	28	1
1650W 200N	17	1
1550W 450N	37	1
1550W 400N	22	2
1550W 350N	25	5
1550W 300N	14	1
1550W 250N	34	1
1550W 200N	24	2
1500W 2500N	21	2
1500W 2450N	26	2
1500W 2250N	23	6
1500W 1400N	23	1
1500W 1350N	27	4
1500W 1300N	15	1
1500W 1250N	26	1
1500W 1200N	32	4
1500W 450N	42	1
1500W 400N	62	8
1500W 350N	26	1
1500W 300N	15	4
1500W 250N	21	1
1500W 150N	10	1
1500W 100N	10	5
1500W 50N	23	2
1500W 00N	32	1
1450W 2500N	22	1
1450W 2450N	34	3
1450W 2400N	34	1
1450W 2350N	27	1
1450W 2300N	26	1
1450W 2150N	29	6
STD C/AU-S	62	51

SAMPLE#	Cu PPM	Au* PPB
1450W 1400N	25	1
1450W 1350N	27	2
1450W 1300N	18	3
1450W 1250N	24	1
1450W 1200N	20	2
1450W 350N	15	49
1450W 300N	18	116
1450W 250N	52	4
1450W 200N	20	2
1450W 150N	19	3
1450W 100N	7	4
1450W 00N	33	290
1400W 6500N	45	1
1400W 6450N	25	3
1400W 6400N	33	1
1400W 6350N	25	2
1400W 6300N	21	2
1400W 6250N	27	4
1400W 6200N	26	1
1400W 6150N	22	4
1400W 6100N	30	1
1400W 6050N	27	3
1400W 6000N	15	2
1400W 5950N	22	4
1400W 5900N	27	1
1400W 5850N	25	2
1400W 5800N	20	2
1400W 5750N	22	2
1400W 5700N	22	4
1400W 5650N	19	1
1400W 5600N	22	1
1400W 5550N	19	4
1400W 5500N	9	1
1400W 5450N	25	5
1400W 5400N	24	2
1400W 5350N	20	1
STD C/AU-S	63	50

SAMPLE#	Cu PPM	Au* PPB
1400W 5300N	20	13
1400W 5250N	23	3
1400W 5200N	19	3
1400W 5150N	38	2
1400W 5100N	24	2
1400W 5050N	18	3
1400W 5000N	21	2
1350W 2500N	21	8
1350W 2450N	28	3
1350W 2400N	40	10
1350W 2350N	24	4
1350W 2300N	33	2
1350W 2250N	37	2
1350W 2200N	74	13
1350W 2150N	34	5
1350W 1400N	19	2
1350W 1350N	13	204
1350W 1300N	20	5
1350W 1250N	26	41
1350W 1200N	23	5
1350W 350N	30	14
1350W 300N	21	1
1350W 250N	21	7
1350W 200N	26	3
1350W 150N	24	6
1350W 50N	41	4
1350W 00N	26	2
1300W 2500N	16	2
1300W 2450N	33	2
1300W 2400N	31	3
1300W 2350N	46	10
1300W 2300N	23	1
1300W 2250N	30	5
1300W 2200N	26	6
1300W 2150N	27	1
1300W 1900N	38	6
STD C/AU-S	63	48

SAMPLE#	Cu PPM	Au* PPB
1300W 1850N	32	16
1300W 1800N	32	3
1300W 350N	24	6
1300W 300N	17	19
1300W 250N	17	1
1300W 200N	22	1
1300W 150N	20	3
1300W 100N	22	3
1300W 50N	19	3
1300W 00N	18	1
1250W 1800N	48	1
1250W 1550N	129	4
1250W 1450N	40	3
1250W 1400N	22	4
1250W 1350N	18	2
1250W 1300N	28	2
1250W 1250N	7	3
1250W 1200N	10	4
1250W 250N	99	3
1250W 200N	27	3
1250W 150N	36	76
1250W 100N	29	3
1250W 50N	32	4
1250W 00N	28	4
1200W 6500N	25	3
1200W 6450N	23	1
1200W 6400N	31	3
1200W 6350N	30	52
1200W 6300N	43	1
1200W 6250N	30	3
1200W 6200N	36	1
1200W 6150N	37	1
1200W 6100N	25	1
1200W 6050N	28	2
1200W 5900N	22	2
1200W 5800N	12	1
STD C/AU-S	60	51

SAMPLE#	Cu PPM	AU* PPB
1200W 5700N	77	1
1200W 5650N	50	1
1200W 5600N	18	1
1200W 5550N	40	2
1200W 5500N	22	8
1200W 5450N	24	13
1200W 5400N	19	2
1200W 5350N	21	1
1200W 5300N	27	3
1200W 5250N	25	2
1200W 5200N	37	1
1200W 5100N	27	1
1200W 5050N	27	3
1200W 5000N	76	2
1150W 2500N	26	3
1150W 2450N	22	1
1150W 2400N	27	3
1150W 2350N	28	2
1150W 2300N	32	1
1150W 2250N	41	21
1150W 2200N	27	4
1150W 2150N	29	1
1150W 1900N	33	1
1150W 1850N	29	1
1150W 1800N	29	1
1150W 1750N	32	1
1150W 1700N	21	1
1150W 1550N	18	17
1150W 1500N	35	1
1150W 1450N	30	3
1150W 1400N	50	1
1150W 1350N	44	10
1150W 1300N	20	1
1150W 1250N	29	1
1150W 1200N	27	3
1150W 350N	37	4
STD C/AU-S	61	49

SAMPLE#	Cu PPM	AU* PPB
1150W 300N	16	5
1150W 250N	21	1
1150W 200N	22	1
1150W 150N	17	1
1150W 100N	22	3
1150W 50N	16	2
1150W 00N	14	1
1100W 2500N	25	5
1100W 2450N	34	3
1100W 2400N	25	7
1100W 2350N	37	2
1100W 2300N	34	5
1100W 2250N	26	3
1100W 2200N	42	112
1100W 2150N	35	9
1100W 1900N	20	1
1100W 1800N	23	4
1100W 1750N	25	1
1100W 1700N	17	2
1100W 1550N	28	2
1100W 1500N	24	1
1100W 1450N	21	5
1100W 1400N	20	2
1100W 1350N	19	2
1100W 1300N	14	8
1100W 1250N	14	2
1100W 1200N	22	3
1100W 300N	30	4
1100W 250N	21	4
1100W 200N	27	2
1100W 150N	24	3
1100W 100N	21	25
1100W 50N	34	2
1100W 00N	25	5
1050W 2500N	21	17
1050W 2450N	24	3
STD C/AU-S	60	50

SAMPLE#	Cu PPM	Au* PPB
1050W 2400N	38	2
1050W 2350N	25	4
1050W 2300N	54	4
1050W 2250N	29	5
1050W 2200N	27	2
1050W 2150N	37	6
1050W 1900N	28	60
1050W 1850N	25	1
1050W 1800N	33	10
1050W 1750N	19	6
1050W 1700N	33	4
1050W 1550N	12	5
1050W 1500N	21	1
1050W 1450N	16	1
1050W 1400N	21	1
1050W 1350N	23	1
1050W 1300N	24	1
1050W 1250N	27	1
1050W 1200N	34	5
1050W 350N	28	5
1050W 300N	26	1
1050W 250N	28	1
1050W 200N	41	5
1050W 150N	30	4
1050W 100N	22	3
1050W 50N	29	3
1050W 00N	19	2
1000W 6500N	40	1
1000W 6450N	36	4
1000W 6400N	30	5
1000W 6350N	36	2
1000W 6300N	46	1
1000W 6200N	32	1
1000W 6150N	28	1
1000W 5950N	35	1
1000W 5900N	28	3
STD C/AU-S	62	48

SAMPLE#	Cu PPM	Au* PPB
1000W 5850N	23	1
1000W 5800N	34	7
1000W 5750N	31	2
1000W 5700N	18	3
1000W 5650N	15	2
1000W 5600N	29	2
1000W 5500N	27	5
1000W 5450N	12	2
1000W 5400N	27	2
1000W 5350N	17	2
1000W 5300N	21	1
1000W 5250N	19	2
1000W 5200N	24	2
1000W 5150N	16	1
1000W 5100N	24	3
1000W 5050N	17	1
1000W 5000N	15	2
950W 2500N	23	2
950W 2450N	64	3
950W 2400N	28	5
950W 2350N	28	1
950W 2300N	29	4
950W 2250N	30	1
950W 2150N	31	12
950W 1800N	23	1
950W 1750N	23	6
950W 1700N	36	1
950W 1400N	21	4
950W 1350N	20	2
950W 1300N	16	1
950W 1250N	14	3
950W 1200N	18	2
950W 350N	16	5
950W 300N	52	2
950W 250N	24	2
950W 200N	29	3
STD C/AU-S	60	50



SAMPLE#	Cu PPM	Au* PPB
950W 150N	17	2
950W 100N	16	105
950W 50N	26	1
950W 00N	15	1
900W 2500N	36	1
900W 2450N	63	1
900W 2400N	32	2
900W 2350N	26	1
900W 2300N	32	1
900W 2250N	26	2
900W 2200N	25	3
900W 2150N	23	2
900W 1800N	25	1
900W 1750N	13	8
900W 1700N	26	2
900W 1400N	20	1
900W 1350N	18	1
900W 1300N	18	5
900W 1250N	41	5
900W 1200N	15	16
900W 350N	19	10
900W 300N	54	2
900W 250N	22	1
900W 200N	15	1
900W 150N	27	4
900W 100N	17	1
900W 50N	16	7
900W 00N	28	1
800W 6500N	32	1
800W 6450N	50	2
800W 6400N	46	3
800W 6350N	36	3
800W 6250N	41	14
800W 6200N	37	1
800W 6150N	24	3
800W 6100N	27	5
STD C/AU-S	62	49

SAMPLE#	Cu PPM	Au* PPB
800W 6000N	19	3
800W 5950N	20	1
800W 5900N	27	1
800W 5850N	37	3
800W 5800N	21	1
800W 5750N	21	1
800W 5700N	21	2
800W 5650N	25	1
800W 5600N	51	1
800W 5550N	16	3
800W 5500N	13	2
800W 5450N	21	1
800W 5400N	15	1
800W 5350N	19	1
800W 5300N	12	4
800W 5250N	8	3
800W 5200N	6	2
800W 5150N	12	11
800W 5100N	20	3
800W 5050N	5	2
800W 5000N	10	1
STD C/AU-S	59	52

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

DATE RECEIVED: JUL 19 1989

DATE REPORT MAILED: *July 29/89.*

### GEOCHEMICAL ANALYSIS CERTIFICATE

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. AU DETECTION LIMIT BY ICP IS 3 PPM.  
- SAMPLE TYPE: ROCK AU\*\* ANALYSIS BY FA+AA FROM 20 GM SAMPLE.

SIGNED BY *C. Long* D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

31

CORDILLERAN ENGINEERING LTD. PROJECT DILL #9 FILE # 89-2346 Page 1

SAMPLE#	Cu PPM	Au** PPB
D895-1	13	10
D895-2	46	5
D895-3	10	2
D895-4	53	13
D895-5	91	30
D895-6	109	10
D895-7	85	16
D895-8	348	24
D895-9	26	6
D895-10	333	178
D895-11	202	16
D895-12	378	35
D895-13	118	16
D895-14	103	14
D895-15	85	21
D895-16	72	14
D895-17	225	1918
D895-18	105	26
D895-19	129	39
D895-20	124	12
D895-21	58	6
D895-22	97	15
D895-23	60	27
D895-24	50	30
D895-25	79	266
D895-26	91	39
D895-27	59	11
D895-28	66	14
D895-29	52	12
D895-30	48	10
D895-31	24	4
D895-32	32	7
D895-33	43	6
D895-34	31	4
D895-35	29	6
D895-36	38	6
STD C/AU-R	59	530

SAMPLE#	Cu PPM	Au** PPB
D895-37	15	4
D895-38	217	3
D895-39	19	2
D895-40	63	7
D895-41	26	3
D895-42	24	4
D895-43	27	6
D895-44	48	7
D895-45	26	3
D895-46	57	12
D895-47	71	13
D895-48	435	99
D895-49	95	22
D895-50	266	25
D895-51	423	81
D895-52	253	53
D895-53	191	34
D895-54	115	21
D895-55	127	15
D895-56	151	32
D895-57	108	16
D895-58	96	33
D897-1	192	35
D897-2	361	35
D897-3	522	39
D897-4	507	21
D897-5	467	19
D897-6	669	26
D897-7	336	8
D897-8	445	16
D897-9	470	12
D897-10	363	9
D897-11	419	20
D897-12	337	15
D897-13	174	9
D897-14	247	15
STD C/AU-R	59	515

SAMPLE#	Cu PPM	AU** PPB
D897-15	568	16
D897-16	286	9
D897-17	396	10
D897-18	362	11
D897-19	909	34
D897-20	410	41
D897-21	156	16
D897-22	316	39
D897-23	227	23
D897-24	58	17
D897-25	94	25
D897-26	211	13
D897-27	604	57
D897-28	2284	99999 *
D897-29	1480	144
D897-30	1096	6359
D897-31	553	61
D897-32	338	30
D897-33	388	98
D897-34	166	13
D897-35	117	31
D897-36	307	24
D897-37	274	26
D897-38	302	16
D897-39	443	21
D897-40	394	22
D897-41	223	22
D897-42	253	21
D897-43	286	19
D897-44	231	13
D897-45	347	24
D897-46	357	29
D897-47	226	10
D897-48	415	42
D897-49	863	57
D897-50	483	30
D897-51	165	20
STD C/AU-R	59	520

\* Gold values = 156500 ppb

SAMPLE#	Cu PPM	Au** PPB
9DC-01R	93	304
9DC-02R	931	87
9DK-01R	10	9

ACME ANALYTICAL LABORATORIES LTD. DATE RECEIVED: AUG 11 1989  
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6  
PHONE(604)253-3158 FAX(604)253-1716 DATE REPORT MAILED: *Aug. 23/89..*

ASSAY CERTIFICATE

006 2 5

- SAMPLE TYPE: REJECT  
AU\*\* AND AG\*\* BY FIRE ASSAY FROM 1/2 A.T.

SIGNED BY *C. Long* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

CORDILLERAN ENGINEERING LTD. PROJECT DILL #9 FILE # 89-2346R

SAMPLE#	Cu %	Ag** OZ/T	As %	Au** OZ/T
D897-28	.22	.08	.01	7.418
D897-29	.15	.03	.01	.019
D897-30	.11	.01	.01	.022

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

DATE RECEIVED: JUL 31 1989

DATE REPORT MAILED: Aug. 8/89...

### GEOCHEMICAL ANALYSIS CERTIFICATE

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. AU DETECTION LIMIT BY ICP IS 3 PPM.  
- SAMPLE TYPE: P1-P5 SOIL P6 ROCK AU\* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

SIGNED BY *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

406 7 0 08

CORDILLERAN ENGINEERING LTD. PROJECT DILL #10 FILE # 89-2590 Page 1

SAMPLE#	Cu PPM	AU* PPB
3700W 6450N	30	1
3700W 6400N	41	6
3700W 6350N	31	1
3700W 6300N	29	2
3700W 6250N	21	3
3650W 6450N	28	1
3650W 6400N	33	3
3650W 6350N	34	1
3650W 6300N	25	2
3650W 6250N	21	1
3550W 6450N	62	1
3550W 6400N	49	1
3550W 6350N	18	1
3550W 6300N	29	1
3550W 6250N	28	13
3500W 6500N	12	1
3500W 6450N	67	1
3500W 6400N	22	3
3500W 6350N	57	8
3500W 6300N	26	4
3500W 6250N	35	1
3300W 6500N	15	1
3300W 6450N	14	1
3300W 6400N	24	3
3300W 6350N	10	1
3300W 6300N	22	4
3300W 6250N	28	2
3300W 6200N	15	1
3300W 6150N	21	1
3300W 6100N	19	1
3300W 6050N	25	1
3300W 6000N	24	3
3300W 5950N	27	3
3300W 5900N	28	1
3300W 5800N	45	2
3300W 5750N	29	1
STD C/AU-S	60	51



SAMPLE#	Cu PPM	Au* PPB
3300W 5700N	30	3
3300W 5650N	43	21
3250W 6500N	20	3
3250W 6450N	15	2
3250W 6400N	16	5
3250W 6350N	20	2
3250W 6300N	62	1
3250W 6250N	25	7
3250W 6200N	29	4
3250W 6150N	36	3
3250W 6100N	26	3
3250W 6050N	28	4
3250W 6000N	23	5
3250W 5950N	24	1
3250W 5900N	28	2
3250W 5850N	31	3
3250W 5800N	42	3
3250W 5700N	54	34
3250W 5650N	60	5
3150W 6500N	56	2
3150W 6400N	22	2
3150W 6350N	14	1
3150W 6300N	25	5
3150W 6250N	18	2
3150W 6200N	27	1
3150W 6150N	33	14
3150W 6100N	23	1
3150W 6050N	35	1
3150W 6000N	24	1
3150W 5950N	27	1
3150W 5900N	22	1
3150W 5850N	30	5
3150W 5800N	25	4
3150W 5750N	24	1
3150W 5700N	29	4
3150W 5650N	39	1
STD C/AU-S	63	47

SAMPLE#	Cu PPM	AU* PPB
3100W 6500N	29	1
3100W 6450N	33	1
3100W 6400N	29	1
3100W 6350N	28	95
3100W 6300N	17	1
3100W 6250N	22	24
3100W 6200N	19	1
3100W 6150N	22	1
3100W 6100N	21	1
3100W 6050N	31	1
3100W 6000N	22	1
3100W 5950N	21	7
3100W 5900N	17	1
3100W 5850N	26	1
3100W 5800N	23	1
3100W 5750N	32	3
3100W 5700N	38	2
3100W 5650N	29	1
3050W 6500N	22	1
3050W 6450N	17	1
3050W 6400N	5	1
3050W 6350N	11	1
3050W 6300N	8	1
3050W 6250N	15	1
3050W 6200N	20	1
3050W 6150N	23	1
3050W 6100N	24	1
2950W 6500N	15	1
2950W 6450N	16	1
2950W 6400N	14	1
2950W 6350N	17	1
2950W 6300N	18	1
2950W 6250N	11	2
2950W 6200N	9	1
2950W 6150N	12	1
2950W 6100N	17	1
STD C/AU-S	58	47

SAMPLE#	Cu PPM	AU* PPB
2900W 6500N	14	2
2900W 6400N	11	1
2900W 6350N	15	1
2900W 6300N	27	2
2900W 6250N	19	2
2900W 6200N	11	3
2900W 6150N	15	13
2900W 6100N	14	2
1800W 6350N	30	1
1800W 6300N	19	1
1800W 6250N	15	4
1800W 6200N	22	1
1800W 6150N	19	2
1800W 6100N	14	1
1800W 6050N	18	2
1800W 6000N	17	1
1800W 5950N	22	1
1800W 5900N	18	3
1800W 5850N	21	1
1800W 5800N	17	5
1800W 5750N	17	3
1800W 5700N	21	4
1800W 5650N	23	1
1800W 5550N	24	1
1800W 5500N	19	1
1800W 5450N	21	5
1800W 5400N	20	1
1800W 5350N	21	1
1800W 5300N	31	1
1800W 5250N	17	1
1800W 5200N	27	7
1800W 5150N	23	1
1800W 5100N	42	1
1800W 5050N	34	1
1600W 6300N	28	1
1600W 6250N	24	1
STD C/AU-S	58	53

SAMPLE#	Cu PPM	Au* PPB
1600W 6200N	23	1
1600W 6150N	21	13
1600W 6100N	26	1
1600W 5950N	30	2
1600W 5900N	14	1
1600W 5850N	9	2
1600W 5800N	21	1
1600W 5750N	15	4
1600W 5600N	21	3
1600W 5550N	22	2
1600W 5500N	21	2
1600W 5450N	18	1
1600W 5400N	20	1
1600W 5300N	18	4
1600W 5250N	17	4
1600W 5200N	20	2
1600W 5150N	15	4
1600W 5100N	21	3
1600W 5050N	26	12
1600W 5000N	24	4
STD C/AU-S	58	48

SAMPLE#	Cu PPM	AU** PPB	(fire assay / 9LP)
D897-52	146	9	
D897-53	185	12	
D897-54	232	10	
D897-55	388	15	
D897-56	279	8	
D897-57	348	10	
D897-58	353	12	
D897-59	886	22	
D897-60	701	22	
D897-61	475	17	
D897-62	411	22	
D897-63	243	15	
D897-64	251	12	
D897-65	162	4	
D897-66	279	9	
D897-67	143	6	
D897-68	97	3	
D897-69	129	1	
D897-70	120	4	
D897-71	215	6	
D897-72	255	13	
D897-73	247	21	
D897-74	388	24	
D897-75	259	21	
D897-76	156	14	
D897-77	193	10	
D897-78	283	8	
D897-79	176	13	
D897-80	326	18	
D897-81	165	4	
D897-82	501	16	
D897-83	332	13	
D897-84	175	16	
D897-85	157	14	
D897-86	91	9	
D897-87	119	9	
D897-88	166	11	
STD C/AU-R	61	490	

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

DATE RECEIVED: AUG 4 1989

DATE REPORT MAILED: *Aug 19, 1989*

### GEOCHEMICAL ANALYSIS CERTIFICATE

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. AU DETECTION LIMIT BY ICP IS 3 PPM.  
- SAMPLE TYPE: P1-P7 SOIL P8 ROCK AU\* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

SIGNED BY... *D. Toyer* D. TOYER, C. LEONG, J. WANG: CERTIFIED B.C. ASSAYERS

CORDILLERAN ENGINEERING LTD. PROJECT DILL #12 FILE # 89-2700 Page 1

SAMPLE#	Cu PPM	Au* PPB
3900E 2100N	9	8
3900E 2050N	11	8
3900E 2000N	11	1
3900E 1950N	8	11
3950E 2100N	10	1
3950E 2050N	13	1
3950E 2000N	12	10
3950E 1950N	5	2
3950E 1900N	9	2
4050E 2100N	13	4
4050E 2050N	11	7
4050E 2000N	9	2
4050E 1950N	12	9
4050E 1900N	14	1
4100E 2100N	5	7
4100E 2050N	13	4
4100E 2000N	7	7
4100E 1950N	11	8
4100E 1900N	9	11
4100E 1250N	8	2
4100E 1200N	5	6
4100E 1150N	6	13
4100E 1100N	8	10
4100E 1050N	9	9
4100E 0650N	7	8
4100E 0600N	8	4
4100E 0550N	9	7
4100E 0500N	4	1
4100E 0450N	10	3
4150E 2100N	9	1
4150E 2050N	7	5
4150E 2000N	11	9
4150E 1950N	19	3
4150E 1900N	9	7
4150E 1250N	11	1
4150E 1200N	10	8
STD C/AU-S	60	52

SAMPLE#	Cu PPM	Au* PPB
4150E 1150N	10	2
4150E 1100N	10	1
4150E 1050N	8	19
4150E 0550N	8	1
4150E 0500N	11	1
4150E 0450N	8	1
4200E 0500N	12	1
4200E 0450N	8	1
4250E 2250N	24	2
4250E 2200N	7	2
4250E 2150N	6	33
4250E 2100N	9	1
4250E 2050N	9	1
4250E 1250N	8	5
4250E 1200N	16	3
4250E 1150N	11	3
4250E 1100N	9	1
4250E 1050N	9	1
4250E 0600N	8	1
4250E 0550N	11	1
4250E 0500N	18	1
4300E 2250N	13	1
4300E 2200N	9	1
4300E 2150N	8	1
4300E 2100N	12	1
4300E 2050N	12	1
4300E 1250N	11	1
4300E 1200N	9	1
4300E 1150N	13	2
4300E 1100N	11	1
4300E 1050N	7	1
4300E 0600N	14	1
4300E 0550N	14	1
4300E 0500N	10	1
4300E 0450N	17	1
4350E 2250N	6	1
STD C/AU-S	63	49

SAMPLE#	Cu PPM	Au* PPB
4350E 2200N	53	2
4350E 2150N	8	2
4350E 2100N	13	3
4350E 2050N	10	2
4350E 1000N	5	1
4350E 0950N	5	1
4350E 0800N	6	8
4350E 0650N	9	1
4350E 0600N	15	2
4350E 0550N	9	1
4350E 0500N	14	1
4350E 0450N	9	5
4400E 0450N	19	2
4450E 2250N	9	1
4450E 2200N	5	20
4450E 2150N	9	4
4450E 2100N	7	1
4450E 2050N	15	2
4450E 1000N	8	9
4450E 0950N	6	1
4450E 0900N	7	1
4450E 0850N	6	1
4450E 0650N	10	3
4450E 0600N	8	1
4450E 0550N	12	12
4450E 0500N	16	1
4450E 0450N	12	3
4500E 2250N	7	3
4500E 2200N	8	1
4500E 2150N	8	1
4500E 2100N	7	1
4500E 2050N	19	1
4500E 1000N	9	1
4500E 0950N	7	1
4500E 0900N	10	1
4500E 0850N	7	1
STD C/AU-S	59	51



SAMPLE#	Cu PPM	AU* PPB
4500E 0800N	24	1
4550E 2250N	11	2
4550E 2150N	9	6
4550E 2100N	16	2
4550E 2050N	16	5
4550E 1000N	11	3
4550E 0950N	14	3
4550E 0900N	40	1
4550E 0850N	19	1
4550E 0800N	14	2
4650E 2250N	23	1
4650E 2200N	10	1
4650E 2150N	11	5
4650E 2100N	7	5
4650E 2050N	11	1
4650E 1200N	13	7
4650E 1150N	7	1
4650E 1100N	12	6
4650E 1050N	11	5
4650E 1000N	12	3
4650E 0950N	17	1
4650E 0900N	10	3
4650E 0850N	14	4
4650E 0800N	10	5
4700E 2250N	16	3
4700E 2200N	13	1
4700E 2150N	14	4
4700E 2100N	10	3
4700E 2050N	9	1
4700E 1200N	11	44
4700E 1150N	8	4
4700E 1100N	9	8
4700E 1050N	6	3
4700E 1000N	12	5
4700E 0950N	14	3
4700E 0900N	22	2
STD C/AU-S	62	49

SAMPLE#	Cu PPM	AU* PPB
4700E 0850N	14	1
4700E 0800N	14	1
4750E 1200N	9	1
4750E 1150N	9	11
4750E 1100N	8	1
4750E 1050N	11	1
4750E 1000N	10	1
4750E 0950N	15	1
4750E 0900N	8	1
4750E 0850N	14	1
4750E 0800N	17	1
4900E 1200N	12	1
4900E 1150N	10	1
4900E 1100N	7	1
4900E 1050N	10	1
4900E 1000N	8	1
4950E 1200N	9	2
4950E 1150N	8	8
4950E 1100N	7	1
4950E 1050N	10	2
4950E 1000N	7	2
5050E 1200N	8	1
5050E 1150N	7	1
5050E 1100N	13	1
5050E 1050N	8	1
5050E 1000N	6	1
5100E 2650N	10	1
5100E 2600N	16	2
5100E 2550N	15	1
5100E 2500N	10	10
5100E 1200N	9	2
5100E 1150N	10	1
5100E 1100N	7	1
5100E 1050N	6	1
5100E 1000N	8	1
5150E 2700N	8	1
STD C/AU-S	62	49

SAMPLE#	Cu PPM	AU* PPB
5150E 2600N	16	6
5150E 2550N	11	6
5150E 2500N	14	5
5300E 2650N	9	1
5300E 2550N	11	3
5300E 2500N	10	2
5300E 2250N	11	11
5300E 2200N	11	3
5300E 2150N	12	1
5300E 2100N	18	1
5300E 2050N	16	2
5350E 2700N	12	8
5350E 2600N	9	166
5350E 2550N	8	3
5350E 2500N	8	1
5350E 2250N	12	2
5350E 2200N	8	6
5350E 2150N	9	1
5350E 2100N	12	1
5350E 2050N	8	1
5450E 2700N	10	2
5450E 2650N	12	1
5450E 2500N	18	1
5450E 2250N	9	2
5450E 2200N	15	1
5450E 2150N	12	1
5450E 2100N	11	1
5450E 2050N	10	2
5500E 2700N	14	1
5500E 2650N	12	1
5500E 2550N	11	11
5500E 2500N	15	1
5500E 2250N	13	27
5500E 2200N	14	1
5500E 2150N	11	1
5500E 2100N	9	1
STD C/AU-S	62	50

SAMPLE#	Cu PPM	Au* PPB
5500E 2050N	24	1
5900E 1700N	11	1
5900E 1650N	10	1
5900E 1600N	10	1
5900E 1550N	14	2
5900E 1500N	10	1
5950E 1700N	14	1
5950E 1650N	11	1
5950E 1600N	11	3
5950E 1550N	10	4
5950E 1500N	11	5
6050E 1700N	12	2
6050E 1650N	9	1
6050E 1600N	17	3
6050E 1550N	12	2
6050E 1500N	14	4
6100E 1700N	18	1
6100E 1650N	14	4
6100E 1600N	15	4
6100E 1550N	13	3
6100E 1500N	13	10
STD C/AU-S	63	49

SAMPLE#	Cu PPM	Au* (20gm) PPB
D897-28P	2455	8220
D897-29P	1410	92
D897-30P	744	12
9DC-03R	674	83
9DC-05R	445	186500
STD C/AU-R	62	520

ACME ANALYTICAL LABORATORIES LTD. DATE RECEIVED: AUG 18 1989  
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6  
PHONE(604)253-3158 FAX(604)253-1716 DATE REPORT MAILED: *Sept. 7/89.*

ASSAY CERTIFICATE

AU\*\* BY FIRE ASSAY FROM 1/2 A.T.

SEP 08 1989

SAMPLE TYPE: Pulp

SIGNED BY... *C. Leung* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

CORDILLERAN ENGINEERING LTD. PROJECT DILL #12 FILE # 89-2700R

SAMPLE#	<i>1<sup>st</sup></i> Au**	<i>2<sup>nd</sup></i> AU**	<i>3<sup>rd</sup></i> AU**
	oz/t	oz/t	oz/t
D897-28P	.047	.065	.127
9DC-05R	6.297	-	-

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

DATE RECEIVED: AUG 3 1989

DATE REPORT MAILED: *Aug. 14/89..*

### GEOCHEMICAL ANALYSIS CERTIFICATE

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. AU DETECTION LIMIT BY ICP IS 3 PPM.  
- SAMPLE TYPE: ROCK AU\*\* ANALYSIS BY FA/ICP FROM 20 GM SAMPLE.

SIGNED BY *C. Long* D. TOYE, C. LEONG, J. WANG: CERTIFIED B.C. ASSAYERS

CORDILLERAN ENGINEERING LTD. PROJECT DILL #11 FILE # 89-2707A Page 1

SAMPLE#	Cu PPM	Au** PPB
D898-1	248	23
D898-2	143	16
D898-3	214	13
D898-4	365	20
D898-5	227	24
D898-6	327	30
D898-7	332	27
D898-8	146	7
D898-9	162	6
D898-10	109	6
D898-11	63	5
D898-12	71	4
D898-13	587	24
D898-14	650	30
D898-15	275	18
D898-16	376	17
D898-17	265	23
D898-18	349	20
D898-19	439	17
D898-20	403	23
D898-21	394	21
D898-22	433	17
D898-23	471	47
D898-24	1328	45
D898-25	159	18
D898-26	513	41
D898-27	555	30
D898-28	389	34
D898-29	489	36
D898-30	576	26
D898-31	476	15
D898-32	465	19
STD C/AU-R	64	525

SAMPLE#	Cu PPM	AU** PPB
D897-89	179	67
D897-90	67	9
D897-91	25	4
D897-92	126	9
D897-93	151	11
D897-94	656	28
D897-95	570	14
D897-96	240	16
D897-97	365	18
D897-98	153	4
D897-99	124	7
D897-100	99	5
D897-101	113	7
D897-102	83	6
D897-103	100	7
D897-104	108	7
D897-105	96	6
D897-106	131	4
D897-107	74	4
D897-108	61	1
D897-109	78	3
D897-110	95	2
D897-111	128	3
D897-112	344	42
D897-113	114	8
D897-114	250	17
D897-115	199	6
STD C/AU-R	64	520



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DATE RECEIVED: AUG 9 1989

*Aug. 18/89*

GEOCHEMICAL ANALYSIS CERTIFICATE

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. AU DETECTION LIMIT BY ICP IS 3 PPM.  
- SAMPLE TYPE: ROCK AU\*\* ANALYSIS BY FA/ICP FROM 20 GM SAMPLE.

SIGNED BY... *C. Leong* D.TOYE. C.LEONG. J.WANG; CERTIFIED B.C. ASSAYERS

406 2 1 89

CORDILLERAN ENGINEERING PROJECT DILL #14/15 FILE # 89-2791 Page 1

SAMPLE#	Cu PPM	Au** PPB
D898-33	642	93
D898-34	497	1722
D898-35	578	326
D898-36	1052	87
D898-37	974	42
D898-38	461	25
D898-39	121	12
D898-40	231	31
D898-41	484	19
D898-42	825	64
D898-43	725	51
D898-44	824	36
D898-45	757	24
D898-46	344	31
D898-47	158	19
D898-48	211	20
D898-49	301	18
D898-50	172	15
D898-51	155	9
D898-52	118	9
D898-53	302	15
D898-54	243	19
D898-55	153	15
D898-56	336	17
D898-57	940	20
D898-58	192	22
D898-59	139	23
D898-60	185	15
D898-61	133	4
D898-62	217	15
D898-63	175	13
D898-64	126	6
D898-65	220	10
D898-66	937	18
D898-67	1132	43
D898-68	2171	125
STD C/AU-R	62	520

SAMPLE#	Cu PPM	Au** PPB
D898-69	215	19
D898-70	225	226
D898-71	205	13
D898-72	318	16
D898-73	162	9
D898-74	137	14
D898-75	125	30
D898-76	108	13
D898-77	112	16
D898-78	91	12
D898-79	148	11
D898-80	152	20
D898-81	626	71
D898-82	241	21
D898-83	119	12
D898-84	368	25
D898-85	210	14
D898-86	71	5
D898-87	93	11
D898-88	142	30
D898-89	228	18
D898-90	113	23
D898-91	186	30
D898-92	224	28
D898-93	47	18
D898-94	35	7
D898-95	340	42
D898-96	175	25
D898-97	157	10
D898-98	122	13
D898-99	96	8
D898-100	149	15
D898-101	251	30
D898-102	132	9
D898-103	156	15
D898-104	76	10
STD C/AU-R	63	470

SAMPLE#	Cu PPM	AU** PPB
D898-105	80	12
D898-106	189	36
D898-107	136	9
D898-108	159	15
D898-109	174	21
D898-110	144	46
D898-111	82	15
D898-112	191	17
D898-113	92	13
D898-114	110	13
D898-115	120	18
D898-116	158	17
D898-117	227	13
D898-118	115	16
D898-119	12	5
D898-120	33	9
D898-121	42	6
D898-122	54	47
D898-123	134	31
D898-124	279	224
D898-125	234	512
D898-126	268	54
D898-127	36	14
D898-128	56	12
D898-129	117	20
D898-130	30	109
D898-131	73	11
D898-132	76	16
D898-133	74	16
D898-134	65	12
D898-135	49	18
D898-136	34	6
D898-137	54	15
D898-138	107	21
D898-139	82	11
D898-140	36	7
STD C/AU-R	62	490

SAMPLE#	Cu PPM	Au** PPB
D898-141	102	20
D898-142	73	11
D898-143	39	11
D898-144	24	6
D898-145	59	8
D898-146	83	9
D898-147	70	5
D898-148	15	1
D898-149	44	1
D898-150	117	11
D898-151	125	8
D898-152	45	9
STD C/AU-R	63	495

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

DATE RECEIVED: AUG 11 1989

DATE REPORT MAILED: *Aug. 21/89.*

### GEOCHEMICAL ANALYSIS CERTIFICATE

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. AU DETECTION LIMIT BY ICP IS 3 PPM.  
- SAMPLE TYPE: ROCK AU\*\* ANALYSIS BY FA/ICP FROM 20 GM SAMPLE.

SIGNED BY... *C. Long* D.TOYE. C.LEONG. J.WANG: CERTIFIED B.C. ASSAYERS

*206 22*

CORDILLERAN ENGINEERING LTD. PROJECT DILL #15/16/17 FILE # 89-2856 Page 1

SAMPLE#	Cu PPM	Au** PPB
D898-153	184	55
D898-154	65	16
D898-155	63	14
D898-156	83	13
D898-157	382	20
D898-158	105	22
D898-159	157	20
D898-160	89	13
D898-161	16	4
D898-162	71	11
D898-163	33	4
D898-164	79	13
D898-165	98	9
D898-166	57	9
D898-167	89	13
D898-168	105	13
D898-169	102	12
D898-170	89	16
D898-171	48	12
D898-172	180	15
D898-173	50	6
D898-174	51	16
D898-175	86	10
D898-176	75	14
D898-177	81	8
D898-178	216	19
D898-179	143	21
D898-180	146	16
D898-181	113	18
D898-182	187	14
D898-183	232	13
D898-184	147	9
D898-185	133	10
D898-186	82	16
D898-187	60	12
D898-188	82	22
STD C/AU-R	64	505

SAMPLE#	Cu PPM	AU** PPB
D8911-70	158	26
D8911-71	265	30
D8911-72	59	9
D8911-73	45	20
D8911-74	96	18
D8911-75	128	21
D8911-76	176	31
D8911-77	132	17
D8911-78	116	43
D8912-1	475	39
D8912-2	129	7
D8912-3	185	12
D8912-4	329	348
D8912-5	102	12
D8912-6	325	40
D8912-7	181	14
D8912-8	126	7
D8912-9	214	14
D8912-10	363	11
D8912-11	1409	22
D8912-12	428	18
D8912-13	393	20
D8912-14	258	10
D8912-15	160	6
D8912-16	254	12
D8912-17	232	8
D8912-18	255	7
D8912-19	221	9
D8912-20	297	36
D8912-21	143	22
D8912-22	160	16
D8912-23	427	69
D8912-24	174	11
D8912-25	74	5
D8912-26	93	16
D8912-27	208	15
STD C/AU-R	64	520

SAMPLE#	Cu PPM	Au** PPB
D8912-28	91	30
D8912-29	132	11
D8912-30	36	2
D8912-31	48	1
D8912-32	59	4
D8912-33	68	44
D8912-34	162	10
D8912-35	834	72
D8912-36	598	36
D8912-37	286	14
D8912-38	166	82
D8912-39	209	16
D8912-40	269	48
D8912-41	204	8
D8912-42	167	90
D8912-43	256	92
D8912-44	258	15
D8912-45	464	19
D8912-46	528	22
D8912-47	406	13
D8912-48	485	16
D8912-49	422	30
D8912-50	998	56
D8912-51	994	40
D8912-52	867	65
D8912-53	649	103
D8912-54	1231	73
D8912-55	1189	61
D8912-56	1674	27
D8912-57	477	16
D8912-58	402	10
D8912-59	732	17
D8912-60	993	21
D8912-61	1316	28
D8912-62	1174	18
D8912-63	243	50
STD C/AU-R	58	470

SAMPLE#	Cu PPM	AU** PPB
D8912-64	196	17
D8912-65	260	19
D8912-66	244	16
D8912-67	288	23
D8912-68	492	37
D8912-69	583	29
D8912-70	421	16
D8912-71	371	14
D8912-72	303	15
D8912-73	267	18
D8912-74	282	17
D8912-75	318	20
D8912-76	288	12
D8912-77	213	14
D8912-78	981	105
D8912-79	703	49
D8912-80	279	16
D8912-81	563	44
D8912-82	793	74
D8912-83	332	14
D8912-84	909	104
D8912-85	556	24
D8912-86	658	59
D8912-87	1706	118
D8912-88	1082	43
D8912-89	913	55
D8912-90	915	44
STD C/AU-R	64	505



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

DATE RECEIVED: AUG 17 1989  
 DATE REPORT MAILED: *Aug. 25/89..*

**GEOCHEMICAL ANALYSIS CERTIFICATE**

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. AU DETECTION LIMIT BY ICP IS 3 PPM. - SAMPLE TYPE: P1-P2 SOIL P3-P4 ROCK AU\* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE. *Au\*\* By fire assay (200g)*

SIGNED BY *C. Leong*. D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS *25*

CORDILLERAN ENGINEERING LTD. PROJECT DILL #18 FILE # 89-2987 Page 1

SAMPLE#	Cu PPM	AU* PPB
D895-1TS	182	123
D895-2TS	40	5
D895-3TS	100	59
D895-4TS	29	1
D895-5TS	54	5
D895-6TS	135	12
D8910-1TS	152	68
D8910-2TS	125	13
D8910-3TS	115	11
D8910-4TS	105	21
D8910-5TS	110	13
D8910-6TS	81	6
D8910-7TS	110	8
D8910-8TS	101	13
D8910-9TS	112	27
D8910-10TS	135	31
D8910-11TS	94	129
D8910-12TS	110	46
D8910-13TS	95	49
D8910-14TS	268	12
D8910-15TS	149	21
D8910-16TS	152	29
D8910-17TS	180	16
D8910-18TS	140	9
D8910-19TS	131	5
D8910-20TS	152	22
D8910-21TS	143	33
D8910-22TS	175	40
D8910-23TS	115	13
D8910-24TS	136	21
D8910-25TS	86	5
D8910-26TS	153	38
D8910-27TS	227	53
D8910-28TS	179	57
D8910-29TS	168	25
D8910-30TS	167	123
STD C/AU-S	64	49

SAMPLE#	Cu PPM	Au* PPB
D8910-31TS	130	26
D8910-32TS	107	81
D8910-33TS	115	47
D8910-34TS	150	85
D8910-35TS	123	66
D8910-36TS	215	370
D8910-37TS	135	43
D8910-38TS	142	29
D8910-39TS	129	27
D8910-40TS	156	61
D8910-41TS	84	29
D8910-42TS	93	69
D8910-43TS	108	23
D8910-44TS	107	18
D8912-1TS	333	16
D8912-2TS	321	7
D8912-3TS	245	14
STD C/AU-S	63	52

SAMPLE#	Cu PPM	Au** PPB	(20 gm)
D8910-1	334	45	
D8910-2	442	39	
D8910-3	603	77	
D8910-4	32	7	
D8910-5	150	40	
D8910-6	125	34	
D8910-7	186	24	
D8910-8	203	22	
D8910-9	307	26	
D8910-10	177	22	
D8910-11	42	10	
D8910-12	36	10	
D8910-12A	74	9	
D8910-13	39	12	
D8910-14	25	9	
D8910-15	31	16	
D8910-16	48	12	
D8910-17	32	8	
D8910-18	23	3	
D8910-19	20	7	
D8910-20	19	8	
D8910-21	37	13	
D8910-22	133	43	
D8910-23	251	99	
D8910-24	162	35	
D8910-25	450	101	
D8910-26	292	112	
D8910-27	170	34	
D8910-28	56	27	
D8910-29	18	23	
D8910-30	12	17	
D8910-31	11	6	
D8910-32	11	13	
D8910-33	44	760	
D8910-34	78	1163	
D8910-35	16	23	
STD C/AU-R	61	515	

SAMPLE#	Cu PPM	Au** PPB	(20 gm)
D8910-36	26	36	
D8910-37	22	9	
D8910-38	19	7	
D8910-39	17	2	
D8910-40	15	6	
D8910-41	32	15	
D8910-42	16	1	
D8910-43	19	15	
D8910-44	48	9	
D8910-45	147	308	
D8910-46	31	32	
D8910-47	17	9	
D8910-48	19	3	
D8910-49	20	2	
D8910-50	27	5	
D8910-51	42	6	
D8910-52	244	21	
D8910-53	34	14	
9DC-06R	13	18	
9DC-07R	49	1016	
9DC-08R	1065	6387	
9DC-09R	40	20	
9DC-10R	26	1522	
9DC-11R	133	33	
9DC-12R	15	22	
9DC-13R	2183	17225	
D897-28PE	613	99	
D897-29PE	1891	134	
D897-30PE	1074	44	
D897-31PE	632	48	
D896-13P	3611	850	
D891-3A	1817	1884	
D895-17A	261	833	
D895-17B	99	26	
D895-17C	352	60	
STD C/AU-R	62	530	

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

DATE RECEIVED: SEP 1 1989

DATE REPORT MAILED: *Sept. 8/89...*

### GEOCHEMICAL ANALYSIS CERTIFICATE

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. AU DETECTION LIMIT BY ICP IS 3 PPM.  
- SAMPLE TYPE: ROCK AU\*\* ANALYSIS BY FA/ICP FROM 20 GM SAMPLE.

SIGNED BY...*C. Long* D.TOYE. C.LEONG. J.WANG: CERTIFIED B.C. ASSAYERS

SEP 1 1989

Cordilleran Engineering Ltd. PROJECT DILL #19 FILE # 89-3397

SAMPLE#	Cu PPM	Ag PPM	Au** PPB
D897-AP	589	.2	76
D897-BP	586	.4	37
D897-CP	580	.4	42
D897-DP	876	.6	91
D897-EP	640	.3	59
D897-FP	1021	.6	95
D897-GP	915	.4	133
D897-HP	970	.4	57
D897-IP	777	.4	47
D897-JP	1083	.5	574
D897-KP	1225	.7	96
D897-LP	1840	.6	242
D897-MP	1065	.4	145
9DC-14R	165	.1	82
9DC-15R	483	.1	28
STD C/AU-R	61	7.2	475

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

DATE RECEIVED: OCT 31 1989

Nov. 3/89  
NOV 6 6

DATE REPORT MAILED:

### GEOCHEMICAL ANALYSIS CERTIFICATE

P - .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. AU DETECTION LIMIT BY ICP IS 3 PPM.  
- SAMPLE TYPE: Soil -80 Mesh AU\* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

SIGNED BY... *C. Leong* D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

Cordilleran Engineering Ltd. PROJECT DILL FILE # 89-4569

SAMPLE#	Ag PPM	Au* PPB
D897-101	.2	30
D897-102	.2	36

GEOCHEMICAL ANALYSIS CERTIFICATE

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. AU DETECTION LIMIT BY ICP IS 3 PPM.  
 - SAMPLE TYPE: P1 SOIL/S.S. P2 ROCK AU\* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

JUL 17 89

DATE RECEIVED: JUL 7 1989 DATE REPORT MAILED: July 14/89. SIGNED BY: C. Leung D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

CORDILLERAN ENGINEERING PROJECT DILL #7 File # 89-2004 Page 1

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Au*
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	%	PPM	PPM	%	PPM	%	PPM	%	%	%	PPM	PPB	
9DB-01	2	28	13	84	.1	8	5	352	3.41	7	5	ND	1	29	1	2	2	73	1.08	.045	9	14	.33	129	.06	2	1.13	.01	.09	1	2
9DB-02	2	151	15	450	.7	31	10	615	2.96	11	5	ND	1	38	2	2	2	63	1.00	.039	11	27	.60	93	.11	2	2.22	.02	.05	1	2
9DB-03	1	142	8	85	.4	19	6	513	2.47	8	5	ND	1	38	1	2	2	50	1.28	.056	13	19	.36	85	.07	3	2.04	.02	.05	1	2
9DB-04	5	48	4	47	.1	10	5	1135	1.67	2	5	ND	1	48	1	2	2	47	2.01	.085	5	13	.34	106	.04	5	1.23	.01	.05	1	1
9DB-05	1	169	7	67	.1	15	7	1087	2.94	2	5	ND	1	54	1	2	2	61	1.52	.069	8	20	.45	161	.07	5	2.10	.02	.05	1	3
9DB-06	1	101	9	94	.1	17	9	735	4.27	10	5	ND	1	50	1	3	2	97	1.13	.102	7	35	.64	204	.08	3	2.97	.01	.05	1	3
9DB-01S	1	152	5	129	.1	22	9	962	3.06	27	5	ND	1	75	1	2	2	152	.49	.039	7	31	.31	264	.02	2	1.14	.01	.07	1	1
9DB-02S	1	90	8	79	.1	16	11	334	4.80	11	5	ND	1	28	1	2	2	119	.41	.060	6	27	.33	112	.04	4	2.01	.01	.05	1	2

RECONNAISSANCE SAMPLE RESULTS  
(Figure 4)

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

DATE RECEIVED: JUL 31 1989

DATE REPORT MAILED:

*Aug. 7/89*

### GEOCHEMICAL ANALYSIS CERTIFICATE

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. AU DETECTION LIMIT BY ICP IS 3 PPM. - SAMPLE TYPE: P1 ROCK P2 SOIL P3 STREAM SED. AU\* ANALYSIS BY ACID LEACH/AA FROM 20 GM SAMPLE.

SIGNED BY *C. Leung* D. TOYE. C. LEONG. J. WANG: CERTIFIED B.C. ASSAYERS

CORDILLERAN ENGINEERING LTD. PROJECT DILL-BANK #10 FILE # 89-2589 Page 1

SAMPLE#	Cu PPM	Ag PPM	Au* PPB
9DB-12R	3	.4	3
9DB-13R	1299	.6	9
9DB-14R	15	.1	4
9DB-15R	11	.1	3
9DB-16R	123	.1	1
9DB-17R	96	.1	7
9DB-18R	60	.1	1
9DB-19R	146	.1	3
9DB-20R	119	.1	2
9DB-21R	5	.1	7
9EB-01R	1670	3.8	2
STD C/AU-R	58	6.9	530



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	Hg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
9DB-07	1	60	7	69	.4	13	7	408	2.34	2	5	ND	5	42	1	2	3	46	1.26	.055	15	23	.36	149	.07	8	1.78	.02	.08	1	1
988-01	1	46	6	60	.2	15	8	1205	2.73	2	5	ND	1	44	1	3	2	66	.88	.070	11	26	.43	193	.08	4	1.70	.02	.05	1	1

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

DATE RECEIVED: AUG 4 1989

DATE REPORT MAILED: *Aug. 8/89...*

**GEOCHEMICAL ANALYSIS CERTIFICATE**

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. AU DETECTION LIMIT BY ICP IS 3 PPM.  
- SAMPLE TYPE: P1 STREAM SED P2 SOIL P3 ROCK AU\* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

SIGNED BY. *C. Leong*. D.TOYE. C.LEONG. J.WANG: CERTIFIED B.C. ASSAYERS

*406 10*

CORDILLERAN ENGINEERING LTD. PROJECT DILL #13 FILE # 89-2704 Page 1

SAMPLE#	Cu PPM	Zn PPM	Ag PPM	Au* PPB
9DB-08	117	708	.3	6
9DB-09	103	68	.1	6

SAMPLE#	Cu PPM	Zn PPM	Ag PPM	AU* PPB
9DB-03S	136	107	.1	2
9DB-04S	105	92	.1	1

SAMPLE#	Cu PPM	Ag PPM	AU* (20gm) PPB
9DB-22R	63	.1	2
9DB-23R	6408	17.7	106
9DB-24R	24	.2	9
9DB-25R	38	.7	6

\* HI - RI                    12      9.2      156      Zn - 11 ppm

\* From PROSPECTING PROJECT #2 FILE #89 - 2703

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

DATE RECEIVED: AUG 11 1989

DATE REPORT MAILED: *Aug. 16/89.*

### GEOCHEMICAL ANALYSIS CERTIFICATE

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. AU DETECTION LIMIT BY ICP IS 3 PPM.  
- SAMPLE TYPE: P1 STREAM SED. P2 SOIL P3 ROCK AU\* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

SIGNED BY...*C. Leong*... D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

*AUG 17 1989*

CORDILLERAN ENGINEERING LTD. PROJECT PROSPECTING #3 FILE # 89-2836 Page 1  
(DILL)

SAMPLE#	Cu PPM	Ag PPM	AU* PPB
9DB-07A	81	.6	2
9DB-07B	107	1.3	10
9DB-07C	71	1.1	3
9DB-10	108	.1	6
9DB-11	78	.3	5
9DB-12	84	.4	1
9DB-13	64	.2	4
9DB-14	63	.7	6
9DB-15	46	.7	4
STD C/AU-S	62	7.0	49

SAMPLE#	Cu PPM	Ag PPM	AU* PPB
9DB-05S	58	.2	6
9DB-06S	52	.3	3
9DB-07S	29	.1	7
DILL 1453W-0006N	33	.3	6

(DILL)

SAMPLE#	Cu PPM	Ag PPM	AU* PPB
9DB-26R	38	1.0	240
9DB-27R	4	.5	1
9DB-28R	32	.2	1
9DB-29R	25	.4	18
* 9DB-30R	6	.1	31

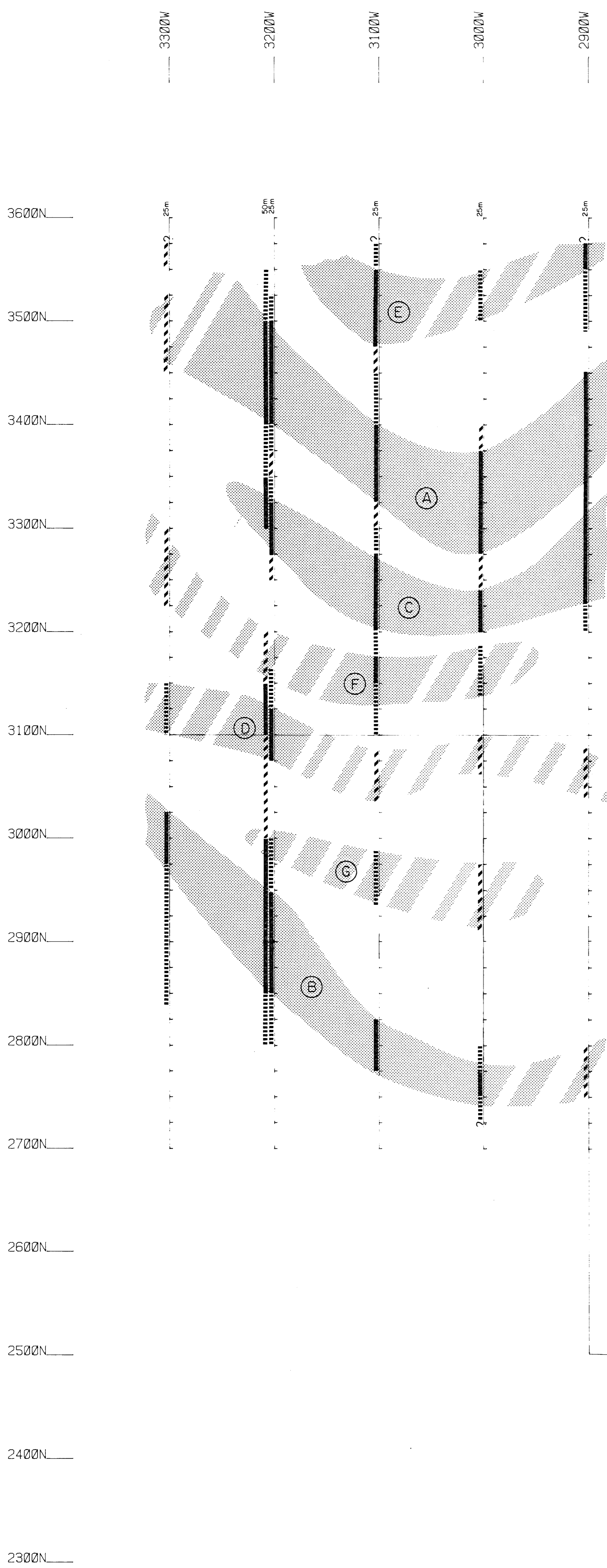
(20gm)

\* Muck Pile Rock Sample from Trench D89 - 6;  
Sample Location shown on PLATE 4.

1988 RECON. SAMPLES (Str. Seds.) - DILL #2 CLAIM

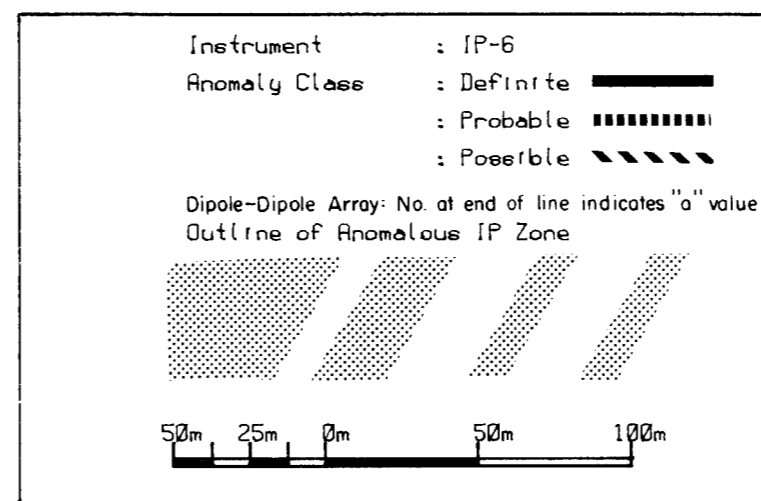
<u>SAMPLE #</u>	<u>Cu</u> <u>ppm</u>	<u>Au</u> <u>ppb</u>
DILL - 1	165	50
DILL - 2	71	3

(Extracted from Lab Report to Cordilleran Eng. Ltd.  
Oct./88, PROSPECTING PROJECT #27 FILE #88 - 5373).



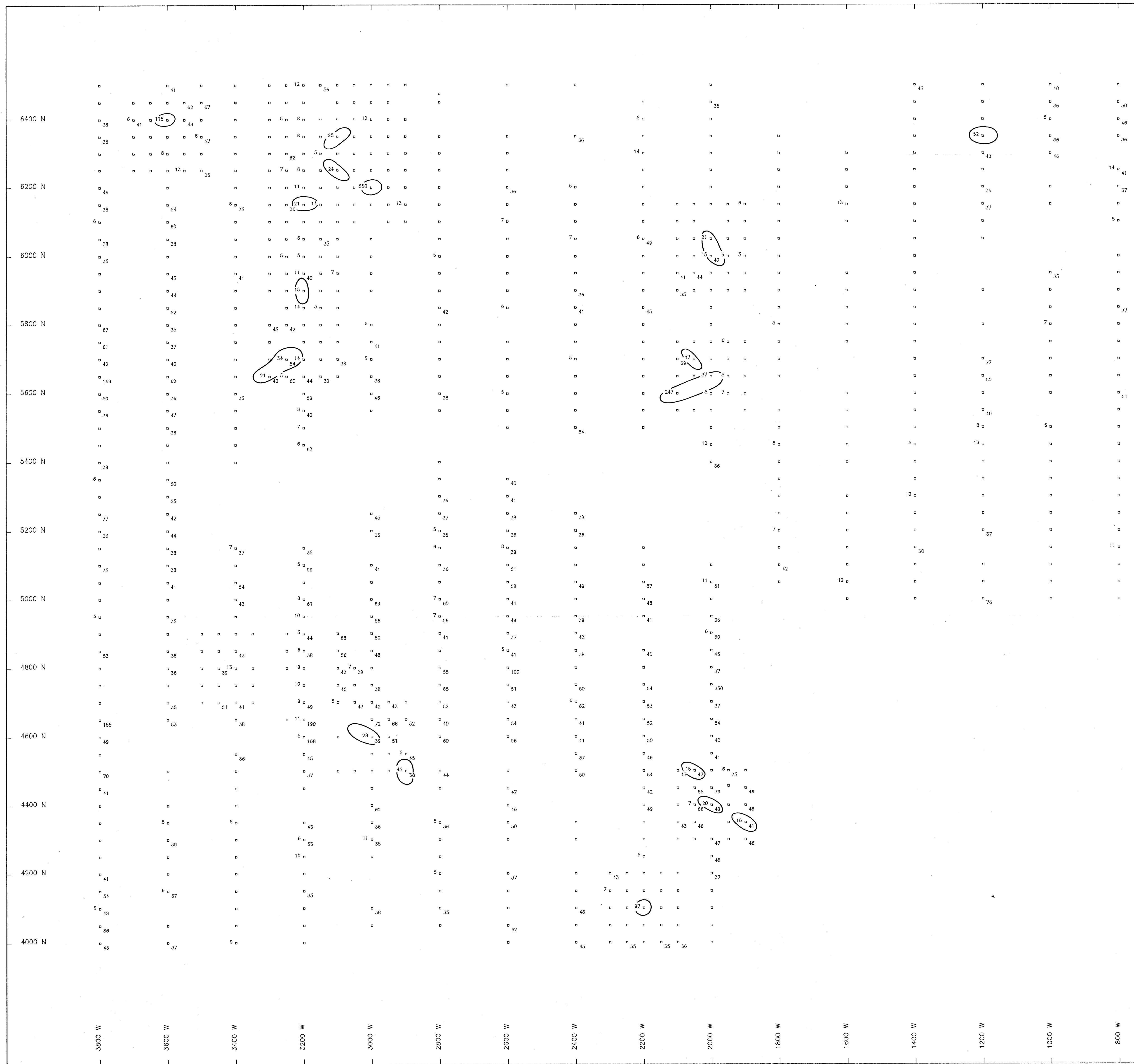
GEOLOGICAL BRANCH  
ASSESSMENT REPORT

19,593



<b>CORDILLERAN ENGINEERING</b>	
INDUCED POLARIZATION SURVEY	
DILL (#1) PROPERTY: SIMILKAMEEN M.D., B.C. BASELINE AZIMUTH : 90 Deg.	
SCALE = 1 : 2500	DATE : 6/25/89
SURVEY BY : MJC/MH	NTS : 92H/16
FILE: MDILLIP	DWG. NO. IPP-3023
Pacific Geophysical Ltd.	





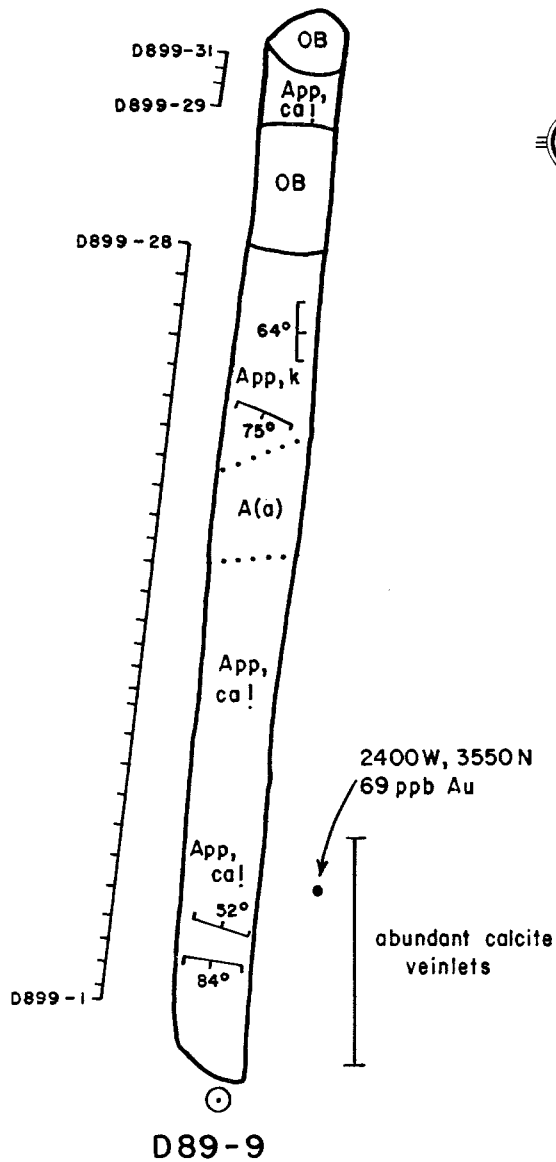
**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**19,593**

AU PPB    CU PPM  
 Au CONTOUR 15 ppb  
 Cu NOT CONTOURED  
 VALUES LESS THAN 5.0 PPB AU NOT PLOTTED  
 VALUES LESS THAN 35.0 PPM CU NOT PLOTTED  
 SEE FIGURE 2 FOR GRID LOCATION

*J.A.C.*

FAIRFIELD MINERALS LTD.
DILL PROPERTY(NORTH GRID)
AU/CU SOIL GEOCHEMISTRY
SIMILKAMEEN MINING DIVISION NTS 92H16W/9W
1: 5000
CORDILLERAN ENGINEERING LTD. 1980-1055 WEST HASTINGS ST. VANCOUVER, B.C.
DEC. 1989      V6E 2E9      PLATE 1



**LEGEND**

**LITHOLOGY**

OB Overburden

**UPPER TRIASSIC**

Dark green intermediate and mafic flows with trace pyrite

**Alteration**

a.....argillic

pp.....propylitic

ca.....calcareous

[(a)-weak; a-strong; at-intense]

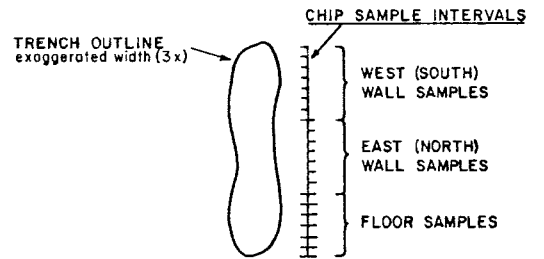
**SYMBOLS**

30° fracture; inclined, vertical

— lithologic contact

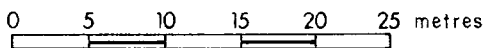
..... alteration contact

• anomalous soil station



NOTE: See Figure 4 for Map location

*J.A.C.*



Scale 1:500

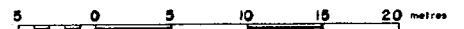
FAIRFIELD MINERALS LTD.

DILL PROPERTY

TRENCH GEOLOGY

D89-9

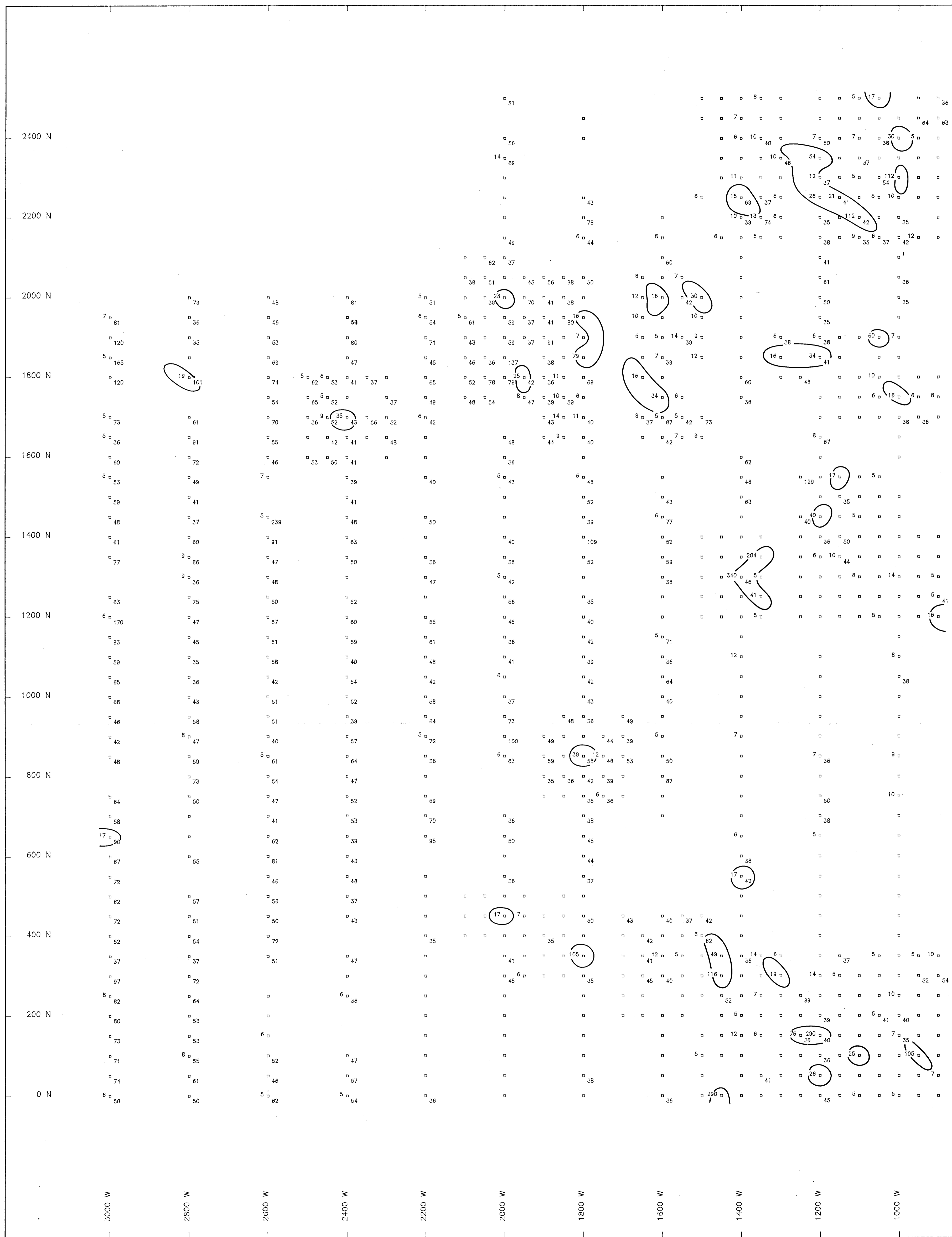
SIMLKAMEEN MINING DIVISION, BRITISH COLUMBIA  
NTS: 92H/16W, 9W  
Scale = 1:500



CORDILLERAN ENGINEERING LTD.  
1980-1055 W. HASTINGS STREET  
VANCOUVER, B.C. V6E 2E9

JANUARY 1990

PLATE 5



**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**19,593**

AU PPB □ CU PPM

— Au CONTOUR 15 ppb  
□ Cu NOT CONTOURED

VALUES LESS THAN 5.0 PPB AU NOT PLOTTED  
VALUES LESS THAN 35.0 PPM CU NOT PLOTTED  
SEE FIGURE 2 FOR GRID LOCATION

*J.R.C.*

FAIRFIELD MINERALS LTD.

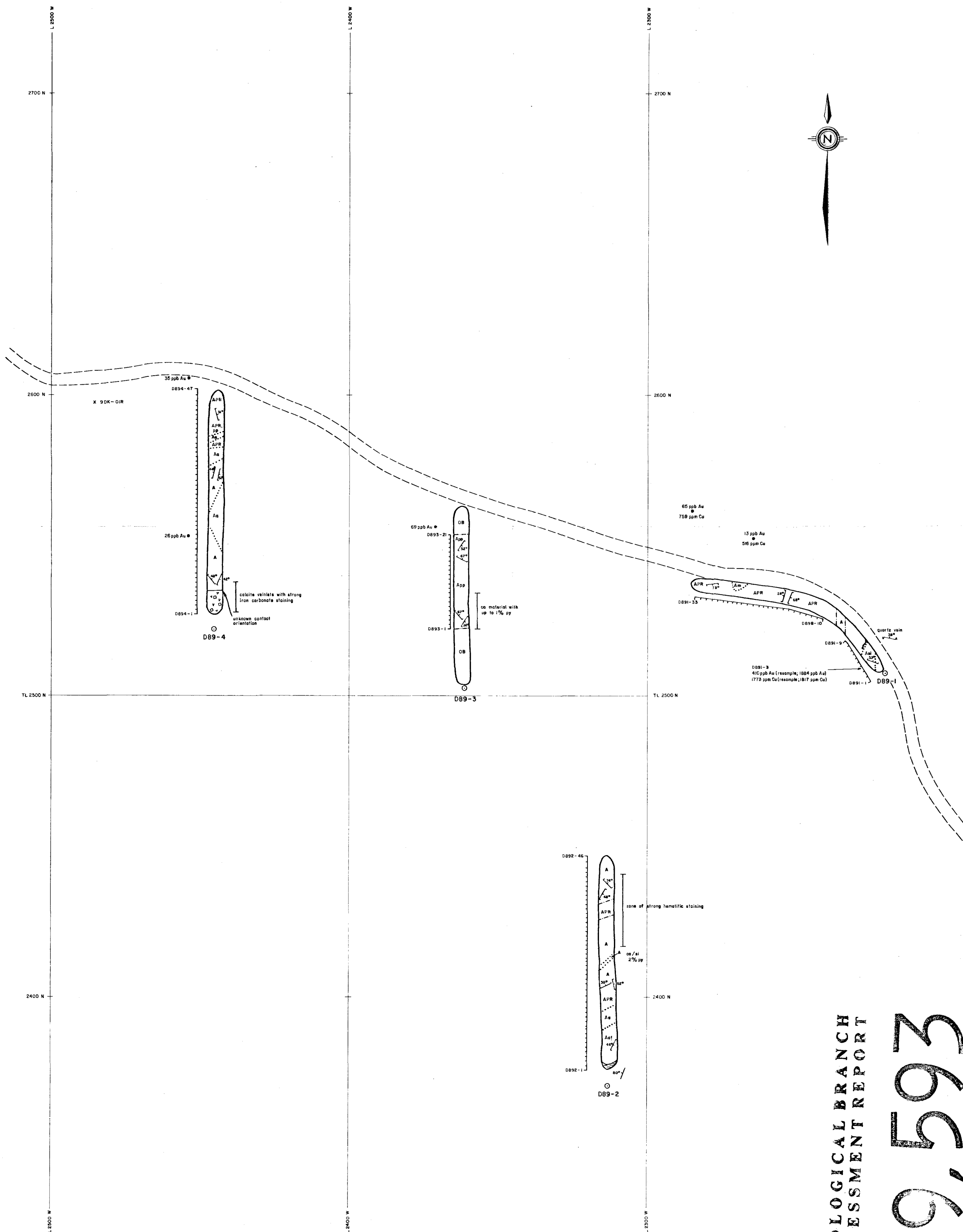
DILL PROPERTY(SOUTH GRID)

**AU/CU SOIL  
GEOCHEMISTRY**

SIMILKAMEEN MINING DIVISION  
NTS 92H16W/9W

1: 5000

CORDILLERAN ENGINEERING LTD.  
1980-1055 WEST HASTINGS ST.  
VANCOUVER, B.C.



**LEGEND**

- LITHOLOGY**
- OB Overburden
  - UPPER CRETACEOUS (?)
  - Feldspar porphyry dyke
  - UPPER TRIASSIC
  - Dark green andesitic and basaltic flows with trace pyrite; augite phenocrysts (PR)
  - Medium grained chloritic diorite
  - Medium grained chloritic granodiorite
  - Dark green and grey siltstone
- Alteration**
- o.....argillic
  - pp.....propylitic
  - m.....montmorillonitic
  - k.....potassic
  - ca.....calcareous
  - si.....siliceous
- [o]-weak; a-mod. to strong; at-intense]

- SYMBOLS**
- bedding; inclined, vertical
  - fracture; inclined, vertical
  - quartz vein; inclined, vertical
  - quartz vein
  - lithologic contact
  - gradational contact
  - alteration contact
  - anomalous soil station
  - py pyrite
  - cp chalcopyrite
  - cut line
  - access road
- TRENCH OUTLINE** (dashed line)
- TRENCH SOIL SAMPLE LOCATION** (circle)
- ROCK GRAB SAMPLE** (X)
- MUCK PILE ROCK SAMPLE** (circle with X)
- WALL PANEL SAMPLE** (rectangle)
- TRENCH START POINT AND TRENCH NO.** (circle with D89-2)
- CHIP SAMPLE INTERVALS**
- WEST (SOUTH) WALL SAMPLES
  - EAST (NORTH) WALL SAMPLES
  - FLOOR SAMPLES
- only values >300ppb Au plotted

NOTE: See Figure 4 for Map location

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**  
**19,593**

J.R.C.

FAIRFIELD MINERALS LTD.
DILL PROPERTY
TRENCH GEOLOGY SOUTH ZONE TRENCHES D89-1, D89-2, D89-3, D89-4
SIMILKAMEEN MINING DIVISION, BRITISH COLUMBIA NTS: 92H/6W, 9W Scale = 1:1000
CORDILLERAN ENGINEERING LTD. 1980-1055 W. HASTINGS STREET VANCOUVER, B.C. V6E 2E9
JANUARY 1990 <span style="float: right;">PLATE 3</span>

