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1 9 9 0    GEOCHEMICAL REPORT  
ON THE SUNSET 1-8 MINERAL CLAIMS

Nicola & Similkameen Mining Divisions, B.C.  
NTS: 92H-16E; Lat.49 deg 51'N; Long.120 deg 12'W

December, 1990    (BC ASSESSMENT REPORT)

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**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**20,815**

1 9 9 0   G E O C H E M I C A L   R E P O R T  
O N   T H E   S U N S E T   1 - 8   M I N E R A L   C L A I M S

Nicola and Similkameen Mining Divisions, B.C.  
Latitude 49 deg 51'N; Longitude 120 deg 12'W.  
NTS: 92H-16E

For

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

By

J. R. Cormier, B.Sc.,  
Geologist

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

Date Submitted:    January, 1991  
Field Period:        July 24 to 29, 1990

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(in pockets)

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This report describes a program of fill-in and reconnaissance soil sampling undertaken on the Sunset property of Fairfield Minerals Ltd. The work was done by Cordilleran Engineering Ltd. from July 24 to 29, 1990.

The property, located 33 kilometres west of Peachland, BC comprises eight claims (150 units) in the Nicola and Similkameen Mining Divisions. The claims, staked during 1989, are owned 100 percent by Fairfield Minerals Ltd.

Good access is provided by logging roads. The terrain consists of a forested uplands plateau surrounding a moderately rugged peak reaching 1834 metres in elevation.

Previous exploration revealed minor molybdenum in the southern property area and gold-bearing veins on adjoining claims six kilometres to the west, which are currently under evaluation. In 1989, 3399 soils were collected on a 200m by 50m grid encompassing the entire Sunset property, which revealed a number of scattered gold anomalies. Prospecting and reconnaissance sampling in 1989 returned several mineralized samples, one of which yielded 24,100 ppb (0.70 oz/ton) Au.

The property is underlain predominantly by a granite to granodiorite batholith in contact with volcanic and sedimentary rocks along the northern claim boundary. Common, northeast-trending fractures and shears in granite are often accompanied by bleaching, clay-sericite alteration, local disseminated pyrite and occasional quartz veins. Major topographic lineaments, which probably represent fault zones, also trend predominantly northeasterly. Sedimentary rocks near the intrusive contact are generally silicified with abundant disseminated pyrite and pyrrhotite.

A total of 699 soil samples were collected on several 50m by 50m fill-in grids surrounding anomalous 1989 sample sites. All soils were analyzed for gold.

In the southeast part of the property five clusters of anomalous gold values occur within a 2000m by 1200m area.

Fill-in sampling confirmed and extended an area of anomalous gold geochemistry which holds moderate potential for the discovery of an economic gold vein deposit. This potential is enhanced by the presence of sulphide bearing quartz vein rubble and strongly pyritized, argillically altered granitic float in zones of moderate to strong geochemistry. Also, the sunset property exhibits a similar geological setting to the adjoining Elk property where high grade gold veins are currently being explored.

\*\*\*\*

2.0

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

The entire property should be geologically mapped and selected areas with strong gold geochemical trends should be prospected and tested by VLF-EM and magnetometer surveys to help define any major structures which may have localized gold mineralization.

Areas with mineral showings or strongly anomalous gold geochemistry and geophysical signatures should be trenched to bedrock with an excavator. Trenches should be cleaned, mapped and chip sampled.

Respectfully submitted

**CORDILLERAN ENGINEERING LTD.**

A handwritten signature in cursive script, appearing to read "J. R. Cormier".

J. R. Cormier, B.Sc.  
Geologist

3.0

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

3.1 LOCATION AND PHYSIOGRAPHY (Figure 1)

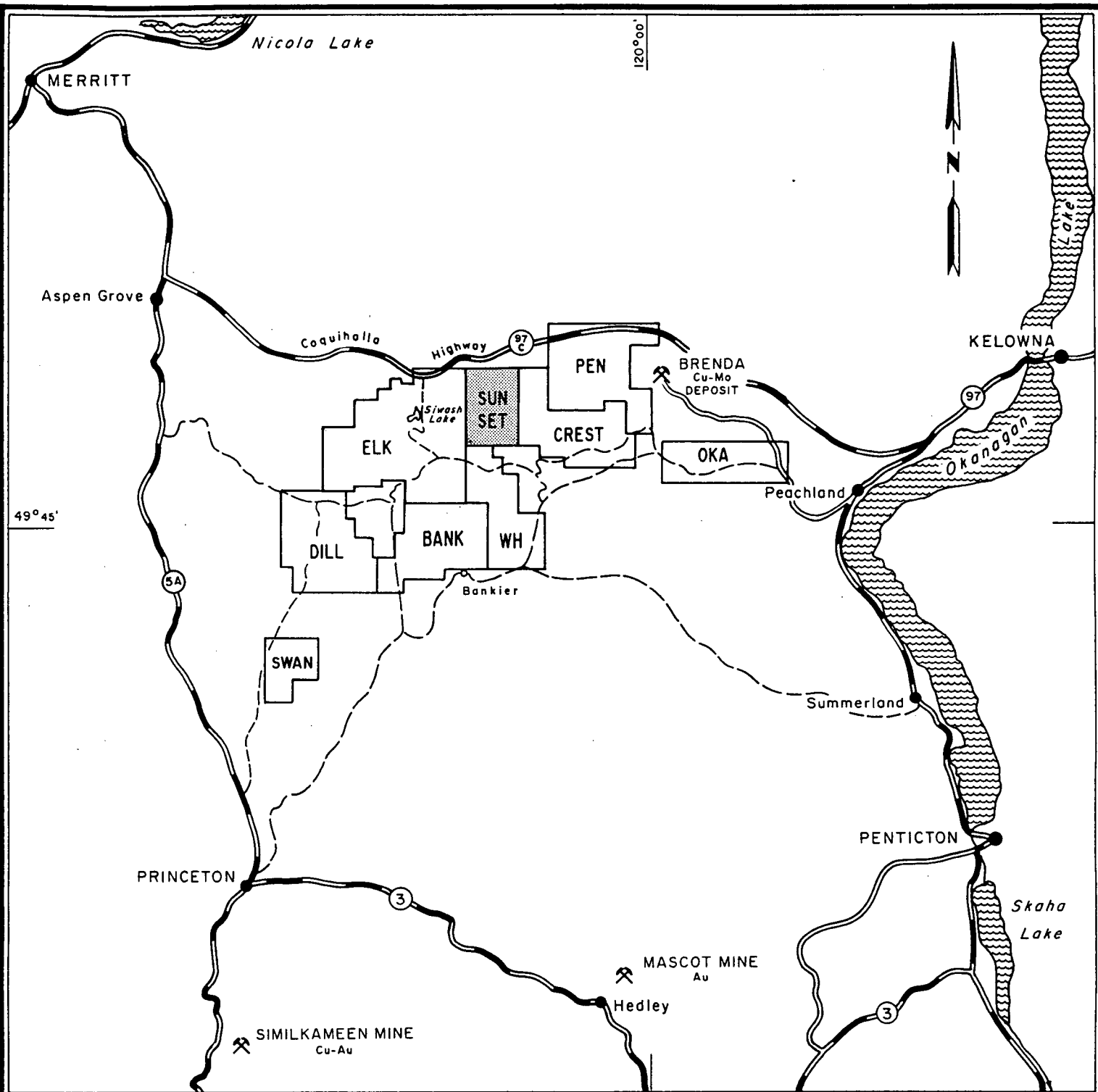
The sunset property is located 33 kilometres west of Peachland in south-central British Columbia (Figure 1). It is centered on latitude 49 degrees 51'N and longitude 120 degrees 12'W within NTS map area 92H/16E. Access is via the Brenda Mine road from Peachland, then west on the Headwater Lakes road and continuing west on Peachland Main logging road to the south side of the property where several secondary logging roads traverse the claims. Access to the northern part is via the Okanagan Connector highway which was open to traffic October 1, 1990.

The claims enclose an area of approximately 37 square kilometres surrounding Culmination Point, a moderately rugged peak, on a broad uplands plateau. Elevations range from 1450m to 1834m above sea level. Streams flow predominantly north and south from Culmination Point. A small lake, unofficially named Pitin Lake is centrally located on the property. Bedrock exposure is variable, from extensive on the steep irregular ridges of Culmination Point to very scarce at lower elevations where glacial overburden is widespread but generally of shallow depth.

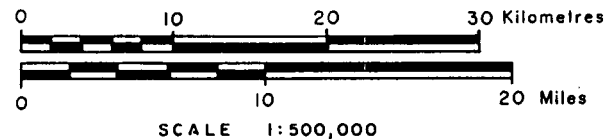
Forest cover in the area comprises pine, fir, spruce and balsam. Clear cut logging has been conducted extensively on the southern and northeastern claims. Annual temperatures range from -20 degrees to 30 degrees C and precipitation is low to moderate. The area is basically snow-free from mid June through October.

3.2 CLAIM DATA (Figure 2)

The current status of the Sunset claims is indicated in Table 1, and their locations are shown on Figure 2. The claims, located in the Similkameen and Nicola Mining Divisions, were staked in September, 1989 and are 100 percent owned by Fairfield Minerals Ltd.

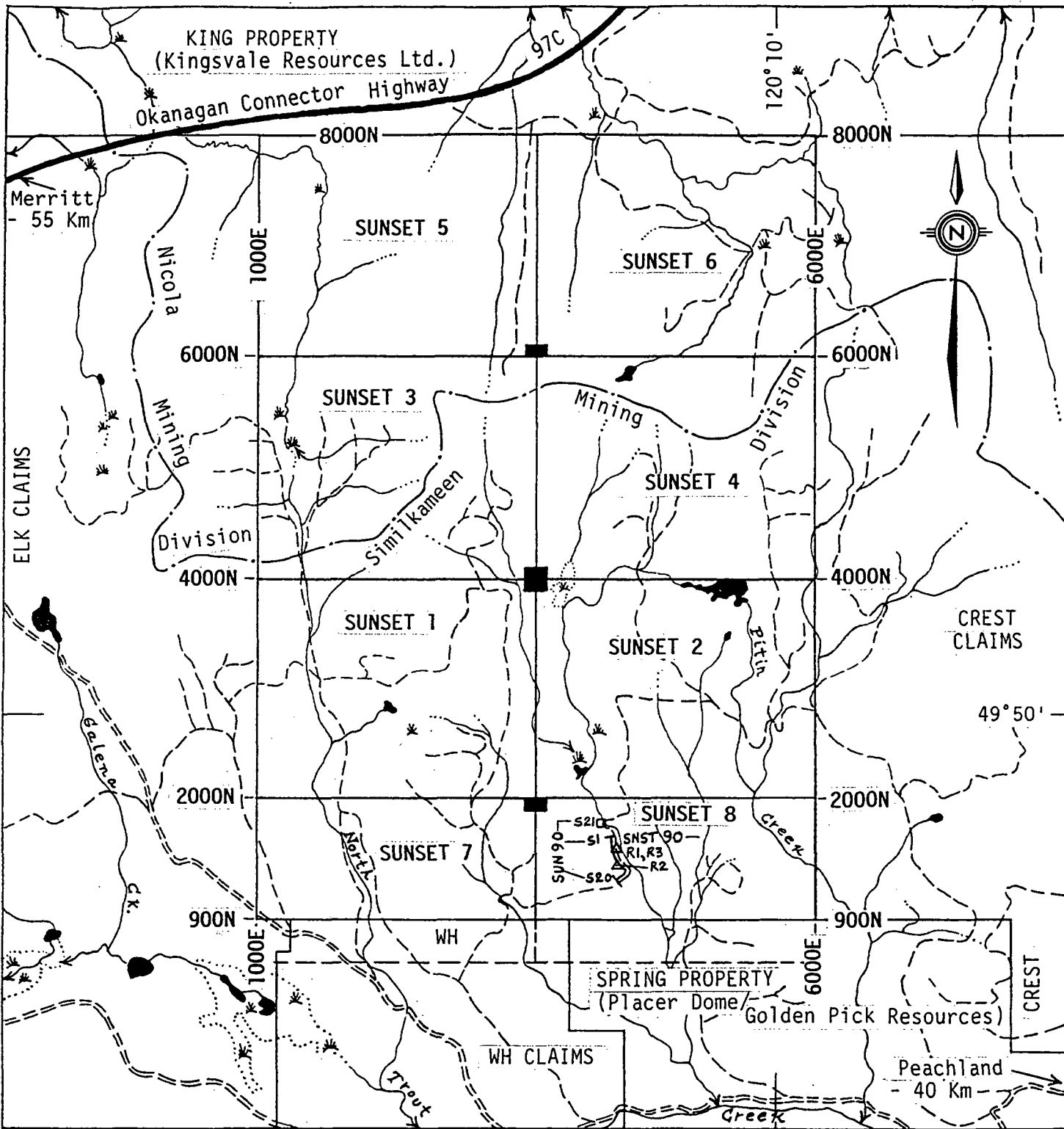


FAIRFIELD MINERALS LTD.  
**PROPERTY LOCATION MAP**  
 SOUTHERN BRITISH COLUMBIA  
 OKANAGAN AREA, NTS 82E/92H



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





**LEGEND**

- Legal Corner of 4-Post Mineral Claim
- Forestry Roads, Trails
- 900N Grid Line Number
- Soil Sample Sites
- △ Rock Sample Sites
- |—| Soil Sample Location Line (25m Stations)

**FAIRFIELD MINERALS LTD.**

**SUNSET PROPERTY**  
**CLAIM, GRID AND RECONNAISSANCE SAMPLE LOCATIONS**  
 Similkameen and Nicola Mining Divisions, B.C.  
 NTS: 92H/16E

SCALE - 1:50,000



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

Nov., 1990

Figure 2

Table 1:

CLAIM STATUS as at November 15, 1990

Sunset #1-4, 7,8: Similkameen Mining Division, BC  
Sunset #5,6: Nicola Mining Division, BC

<u>CLAIM</u>	<u>UNITS</u>	<u>RECORD NO.</u>	<u>EXPIRY DATE</u>
SUNSET 1	20	3470	4 SEP 1994
SUNSET 2	20	3471	4 SEP 1994
SUNSET 3	20	3472	5 SEP 1994
SUNSET 4	20	3473	5 SEP 1994
SUNSET 5	20	2251	6 SEP 1995
SUNSET 6	20	2252	5 SEP 1995
SUNSET 7	15	3500	12 SEP 1995
SUNSET 8	15	3501	12 SEP 1996

3.3 HISTORY

Little prior exploration has been conducted in the area of the Sunset claims. In 1980 Cominco Ltd. explored the southern portion, and the region to the west, in search of a copper, molybdenum deposit. Cominco conducted soil sampling, mapping and prospecting which identified weak molybdenum geochemical anomalies and minor sporadic molybdenite occurrences. Spotty high zinc geochemical values were also outlined.

Six kilometres to the west, high grade gold vein systems have been explored from 1986 to present by Fairfield Minerals Ltd. on the adjoining Elk property. Geochemical and geophysical surveys, trenching and diamond drilling at Elk have revealed several gold-bearing structures, one of which contains a 390 metre section on surface which averages 0.507 oz/ton gold across a 2 metre true width.

Reconnaissance prospecting and sampling were carried out by Fairfield from 1986 through 1989 in the Sunset property area. Anomalous gold values as well as high values in silver, lead, zinc, copper and arsenic were returned from a number of stream sediment, soil and rock samples. A grab sample of quartz-sulphide float which yielded a high gold value prompted staking of the Sunset claims in September, 1989. The entire property was then soil sampled at 200m by 50m spacings, producing 3399 samples analyzed for Au, Ag and Zn.

3.4 1990 EXPLORATION PROGRAM

The 1990 program consisted of detailed fill-in soil sampling (50m x 50m) over areas of anomalous gold values defined by the 1989 soil program. Reconnaissance prospecting and sampling were conducted to further define anomalous gold trends and to test areas of alteration.

4.0

G E O L O G Y

4.1 REGIONAL GEOLOGY (Figure 3)

Regional geology in the area of the Sunset property is illustrated on the northeast part of G.S.C. Map 888A, Princeton, mapped by H.M.A. Rice, 1939-1944 and condensed on Figure 3.

The claims cover part of the contact zone between the Okanagan Batholith on the south and Nicola volcanic and sedimentary rocks on the north. The batholith comprises white to reddish, coarse grained granite to granodiorite of the Upper Jurassic Coast Intrusions. The Upper Triassic Nicola unit includes massive basalt flows and breccias with lesser interlayered tuff, volcanic sediments and limestone.

4.2 PROPERTY GEOLOGY AND MINERALIZATION

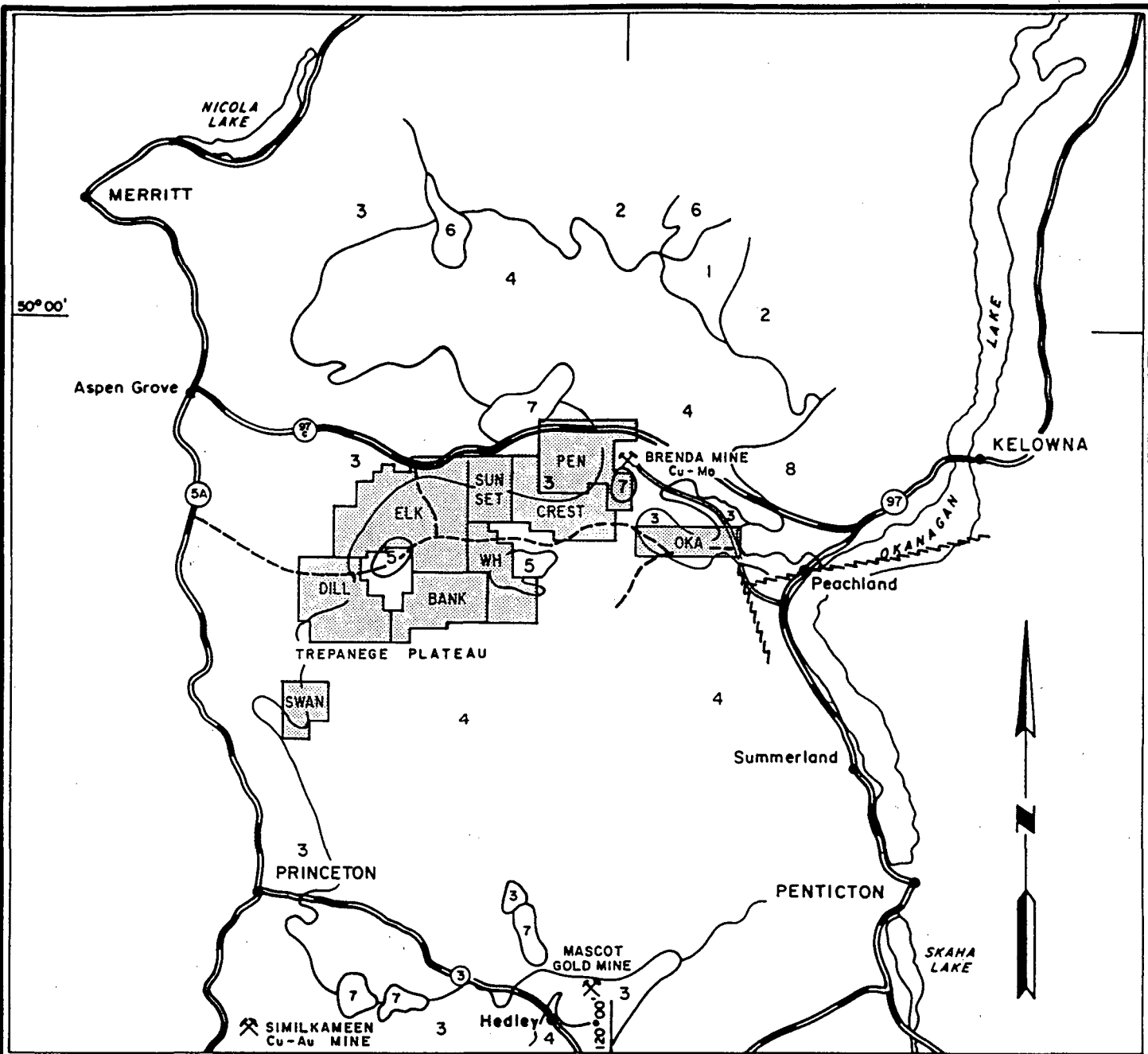
The geology of the property was not mapped during this program, however it was observed that the batholith contact is farther north than shown on Figure 3. The property is predominantly underlain by granitic rocks with only the extreme northeast corner containing Nicola rocks.

Zones of alteration were noted in granite, consisting of chloritic masses in some areas, bleaching and clay-sericite development in others. Disseminated pyrite accompanies some alteration and quartz veins and masses were observed locally.

In the Nicola rocks pyrite and pyrrhotite disseminations and small masses are generally ubiquitous, especially near intrusive bodies.

North- and northeast-trending fractures and joint sets are present in several outcrops of massive granite, many of which are enveloped by zones of alteration. Major topographic lineaments which transect the property also have similar north to northeast trends.

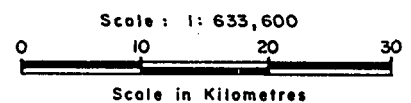
The most significant mineralization encountered was a 10cm diameter float fragment of drusy quartz with several percent disseminated pyrite and minor sphalerite, galena and chalcopyrite collected in 1989. Located on the northern



**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	Chaparron Group - schist

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



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

part of the property near 3400E, 6600N, this sample yielded 24,100 ppb (0.70 oz/ton) gold and 85.6 ppm (2.5 oz/ton) silver. The float was found in glacial till more than two metres thick on a road cut bank. Nearby outcrops of coarse granite are fractured with local quartz veinlets and rusty alteration selvages. A nearby soil sample (3600E, 6600N) returned 192 ppb Au.

On the northeast claim along the granite-volcanic contact, silicification and sericite alteration are extensive. A coarse crystalline white quartz vein up to 20cm thick cuts clay-sericite altered, pyritic granite. Samples of the quartz returned low gold values, however, soil samples nearby gave anomalous values up to 180 ppb Au.

The geological setting is very similar to that on the adjoining Elk property where high grade gold-bearing vein systems have been exposed 6 kilometres to the west.

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5.0

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

5.1 SAMPLING PROCEDURE

A total of 699 soil samples were collected from several detailed fill-in grids (50m by 50m) around sample sites returning gold values >20 ppb in 1989. Fill-in lines were established using hip chain, compass and orange flagging with soil stations at 50m intervals identified by grid-numbered, water proof Tyvek tags and orange and blue flagging. Line locations were determined from existing 1989 grid stations. Samples were collected from the "B" soil horizon with mattocks and placed in kraft paper bags marked with appropriate grid coordinates. The samples were sent to Acme Analytical Laboratories Ltd. in Vancouver where they were dried and sieved to separate the -80 mesh fraction. A 10 gram portion of this material was analyzed for gold using MIBK extraction and AA analysis. Detection limit was 1 ppb Au.

In addition 21 reconnaissance soil and 3 rock samples were collected and analyzed for gold. Rocks were tested for gold and silver from a 20 gm pulp using MIBK extraction followed by AA analysis.

5.2 RESULTS (Plate 1)

The 1990 fill-in soil geochemical results discussed in this report are plotted on Plate 1. Also shown are the 1989 results (see 1989 Sunset Geochemical Assessment Report) which are included for completeness. All 1990 grid-line and reconnaissance soil and rock sample analytical certificates are listed in Section 10.0.

Increasing symbol sizes on Plate 1 correspond to values  $\leq 10$ ,  $>10$ ,  $>20$ ,  $>50$ ,  $>100$  ppb Au, with values greater than 20 ppb considered to be significantly anomalous.

The 1990 fill-in sampling program had limited success in further defining anomalous trends. Anomalies in the southwest, central, northeast and northwestern parts of the property were not extended.

In the southeast part of the property five groups of anomalies were outlined within a 2000m by 1200m area. Fill-in sampling around values of up to 270 ppb Au confirmed the anomalies and indicated trends extending up to 400m in length.

Reconnaissance soils Sun 90-S1 to S20 were collected at 25m intervals along a road cutting the south central part of the property (Figure 2, Plate 1). Sun 90-S21 was taken north of Sun 90-S1 on the same road. Sun 90-S2 and S6 returned strongly anomalous values of 126 ppb and 65 ppb Au, respectively. This further defines a general northeasterly gold trend outlined by grid line soil sampling.

Rock sampling consisted of three grab samples (SNST90-R1,R2,R3) taken in the area of the reconnaissance soil line. (Figure 2). SNST90-R1 comprised quartz vein float material from two selected sites 50m apart mineralized with minor chalcopyrite and sphalerite. Values of 31 ppb Au and 7.7 ppm Ag were returned. SNST90-R2, composed of angular quartz vein rubble with minor galena, limonite and iron carbonate yielded values of 32 ppb Au and 0.1 ppm Ag. SNST90-R3 was from strongly pyritized, argillically altered angular granitic float weathered to a rusty yellow colour. Low gold and silver values were returned from this sample.

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6.0

**P E R S O N N E L**

Days worked - 1990

PERSONNEL:

J.R.Cormier, Geologist N.Vancouver, BC	Jul 24 - Jul 29	6 days sampling 8 days report preparation
M. Steiner, Sampler Coquitlam, BC	Jul 24 - Jul 26	3 days sampling
M. Lazaroff, Sampler North Vancouver, BC	Jul 24 - Jul 27	4 days sampling
M. Clarke, Sampler Vancouver, BC	Jul 24 - Jul 27	4 days sampling
S. Crawford, Sampler N.Vancouver, BC	Jul 24 - Jul 27	4 days sampling
C. Ouellette, Sampler Mahone Bay, Nova Scotia	Jul 27	1 day sampling

\*\*\*\*



7.0

STATEMENT OF EXPENDITURES

Sunset Property  
Sunset 1-8 (150 Units)

PROFESSIONAL, TECHNICAL & GEOLOGICAL SERVICES .....	\$ 6,225
SALARIES .....	1,750
BENEFITS .....	207
GEOCHEMICAL ANALYSIS .....	3,287
VEHICLE RENT .....	368
EQUIPMENT & STORAGE RENTAL .....	209
RADIO RENTAL & LICENCES .....	58
OFFICE SUPPLIES, PRINTING, PHOTOGRAPH .....	199
TELEPHONE, POSTAGE .....	113
FREIGHT .....	264
LIABILITY INS. ....	73
TRAVEL & ACCOMMODATION .....	700
FIELD SUPPLIES .....	748
VEHICLES .....	54

*JRC.* \$14,255

\*\*\*\*

8.0

R E F E R E N C E S

B.C. MINISTRY OF ENERGY MINES AND PETROLEUM RESOURCES:

Minfile 92H/NE

ROWE, J.D.:

1990 1989 Geochemical (Assessment) Report on the Sunset 1-8 Mineral Claims

JAKUBOWSKI, W.:

1988: 1987 Geological, Geochemical, Geophysical and Prospecting  
(Assessment) Report on the Elk Property.

1989: 1988 Geological, Geochemical and Trenching (Assessment) Report on the  
Elk Property.

OSATENKO, M. J.:

1981: Geology And Soil Geochemistry on the Trout Property. Assessment  
Report No. 8671.

PRETO, V.A.:

1979: Geology of the Nicola Group between Merritt and Princeton, B.C.M.M.  
Bulletin 69.

RICE, H.M.A.:

1947 Geology and Mineral Deposits of the Princeton Map-Area, B.C.,  
Geol.Surv. Can. Memoir 243.

\*\*\*\*

9.0

STATEMENT OF QUALIFICATIONS

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

1. I am a geologist residing at 666 West Keith Road and employed by Cordilleran Engineering Ltd. of 1980 - 1055 West Hastings Street, Vancouver, B.C. V6E 2E9
2. I have received a B.Sc. degree in Geology from St. Francis Xavier University, Antigonish, N.S., in 1985.
3. I have practiced my profession for five 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 Sunset claims during the period July 24 to 29, 1990.

CORDILLERAN ENGINEERING LTD.



John R. Cormier, B.Sc.  
Geologist

JRC/z  
Vancouver, BC  
December, 1990

10.0

**A N A L Y T I C A L   R E S U L T S**

**ACME ANALYTICAL LABORATORIES LTD.**

**Geochemical Analysis Certificates (Soils)**

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

DATE RECEIVED: AUG 1 1990

DATE REPORT MAILED: *Aug 9/90*

### GEOCHEMICAL ANALYSIS CERTIFICATE

Cordilleran Engineering Ltd. PROJECT SUNSET #1 FILE # 90-3069 Page 1  
1980 - 1055 W. Hastings S, Vancouver BC V6E 2E9 Attn: JOHN CORMIER

406 09 90

SAMPLE#	AU* ppb
900E 5950N	2
900E 5900N	3
900E 5850N	1
900E 5800N	1
900E 5750N	1
900E 3450N	2
900E 3400N	1
900E 3350N	2
950E 5950N	1
950E 5900N	4
950E 5850N	1
950E 5800N	1
950E 5750N	1
950E 3450N	1
950E 3400N	1
950E 3350N	1
1050E 5950N	3
1050E 5900N	1
1050E 5850N	1
1050E 5800N	1
1050E 5750N	1
1050E 3450N	1
1050E 3400N	5
1050E 3350N	1
1100E 6600N	3
STANDARD AU-S	52

- SAMPLE TYPE: P1-P20 Soil P21 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

SAMPLE#	AU* ppb
1100E 6550N	2
1100E 6500N	1
1100E 5950N	3
1100E 5900N	2
1100E 5850N	2
1100E 5800N	4
1100E 5750N	1
1100E 3450N	2
1100E 3400N	1
1100E 3350N	1
1100E 2300N	2
1100E 2250N	1
1100E 2200N	1
1150E 6600N	1
1150E 6550N	1
1150E 6500N	1
1150E 5950N	5
1150E 5900N	2
1150E 5850N	5
1150E 5800N	2
1150E 5750N	4
1150E 2300N	2
1150E 2250N	1
1150E 2200N	1
1250E 6600N	1
1250E 6550N	1
1250E 6500N	1
1250E 5950N	1
1250E 5900N	2
1250E 5850N	3
1250E 5800N	1
1250E 5750N	1
1250E 2300N	1
1250E 2250N	1
1250E 2200N	1
1300E 6600N	2
STANDARD AU-S	48

SAMPLE#	AU* ppb
1300E 6550N	6
1300E 6500N	3
1300E 5950N	5
1300E 5900N	4
1300E 5850N	3
1300E 5800N	6
1300E 5750N	2
1300E 2300N	2
1300E 2250N	3
1300E 2200N	2
1300E 1500N	1
1300E 1450N	3
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1350E 1450N	3
1350E 1400N	1
1350E 1350N	6
1350E 1300N	1
1450E 1500N	3
1450E 1450N	3
1450E 1350N	1
1450E 1300N	2
1500E 4050N	5
1500E 4000N	2
1500E 3950N	1
1500E 3900N	3
1500E 3850N	3
1500E 3800N	3
1500E 3700N	2
1500E 3650N	1
1500E 3600N	2
1500E 1500N	1
1500E 1450N	3
1500E 1400N	2
STANDARD AU-S	48

SAMPLE#	AU* ppb
1500E 1300N	2
1550E 1500N	5
1550E 1450N	1
1550E 1400N	5
1550E 1350N	3
1550E 1300N	1
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1650E 1450N	2
1650E 1400N	1
1650E 1350N	1
1650E 1300N	3
1700E 4150N	7
1700E 4100N	2
1700E 4050N	3
1700E 4000N	3
1700E 3950N	1
1700E 3900N	2
1700E 3850N	1
1700E 3800N	2
1700E 3750N	2
1700E 3700N	1
1700E 3650N	2
1700E 3600N	2
1700E 1500N	1
1700E 1450N	1
1700E 1400N	2
1700E 1350N	3
1700E 1300N	1
1750E 1500N	1
1750E 1450N	2
1750E 1400N	3
1750E 1350N	3
1750E 1300N	3
1850E 1500N	3
1850E 1450N	4
1850E 1400N	2
STANDARD AU-S	50

SAMPLE#	AU* ppb
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1900E 3950N	3
1900E 3900N	1
1900E 3850N	5
1900E 3800N	2
1900E 3750N	3
1900E 1450N	22
1900E 1400N	3
1900E 1350N	1
1900E 1300N	1
2100E 7200N	1
2100E 7150N	2
2100E 7100N	1
2100E 7050N	1
2100E 7000N	1
2150E 7200N	14
2150E 7150N	3
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2250E 7200N	1
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2250E 7100N	2
2250E 7050N	1
2250E 7000N	3
2300E 7200N	4
2300E 7150N	1
2300E 7100N	3
2300E 7050N	2
2300E 7000N	1
2350E 7200N	1
2350E 7150N	3
2350E 7100N	4
2350E 7050N	3
2350E 7000N	1
STANDARD AU-S	51

SAMPLE#	AU* ppb
2450E 7200N	1
2450E 7150N	1
2450E 7100N	4
2450E 7050N	1
2450E 7000N	2
2500E 7200N	2
2500E 7150N	1
2500E 7100N	2
2500E 7050N	1
2500E 7000N	2
2550E 7200N	2
2550E 7150N	1
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2550E 7050N	1
2550E 7000N	1
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2650E 7150N	1
2650E 7100N	1
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2700E 7050N	2
2700E 7000N	5
2700E 4550N	1
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2750E 4550N	3
2750E 4500N	1
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2850E 4500N	3
2850E 4450N	2
2900E 4550N	1
2900E 4500N	2
STANDARD AU-S	48

SAMPLE#	AU* ppb
2900E 4450N	8
3100E 4850N	2
3100E 4800N	5
3100E 4750N	2
3150E 4850N	5
3150E 4800N	1
3150E 4750N	1
3250E 4850N	1
3250E 4800N	1
3250E 4750N	3
3300E 7400N	1
3300E 7350N	1
3300E 7300N	1
3300E 7250N	1
3300E 4850N	1
3300E 4800N	3
3300E 4750N	1
3350E 7400N	2
3350E 7350N	2
3350E 7300N	1
3350E 7250N	1
3450E 7400N	1
3450E 7350N	1
3450E 7300N	2
3450E 7250N	1
3500E 7400N	8
3500E 7350N	4
3500E 7300N	2
3500E 7250N	4
3500E 6650N	4
3500E 6600N	1
3500E 6550N	2
3550E 7400N	3
3550E 7350N	1
3550E 7300N	1
3550E 7250N	2
STANDARD AU-S	47

SAMPLE#	AU* ppb
3550E 6650N	3
3550E 6600N	2
3550E 6550N	6
3650E 7400N	5
3650E 7350N	1
3650E 7250N	4
3650E 6650N	4
3650E 6600N	2
3650E 6550N	2
3700E 7400N	7
3700E 7350N	2
3700E 7300N	3
3700E 7250N	1
3700E 7000N	3
3700E 6950N	1
3700E 6900N	1
3700E 6650N	1
3700E 6600N	1
3700E 6550N	1
3700E 4450N	4
3700E 4400N	8
3700E 4350N	4
3750E 7000N	2
3750E 6950N	1
3750E 6900N	2
3750E 4450N	1
3750E 4400N	1
3750E 4350N	1
3850E 7000N	2
3850E 6950N	1
3850E 6900N	1
3850E 4450N	1
3850E 4400N	1
3850E 4350N	3
3900E 7000N	1
3900E 6950N	1
STANDARD AU-S	51

SAMPLE#	AU* ppb
3900E 6900N	2
3900E 6250N	1
3900E 6200N	2
3900E 6150N	2
3900E 4450N	2
3900E 4400N	7
3900E 4350N	3
3950E 6250N	2
3950E 6200N	2
3950E 6150N	3
4050E 6250N	1
4050E 6200N	1
4050E 6150N	2
4100E 6250N	1
4100E 6200N	4
4100E 6150N	3
4100E 4150N	1
4100E 4100N	1
4100E 4050N	2
4100E 4000N	1
4100E 1700N	1
4100E 1650N	72
4100E 1600N	10
4100E 1550N	2
4100E 1500N	1
4100E 1450N	1
4100E 1400N	1
4100E 1350N	3
4100E 1300N	1
4150E 4150N	3
4150E 4000N	2
4150E 1700N	1
4150E 1650N	3
4150E 1600N	3
4150E 1550N	1
4150E 1500N	1
4150E 1500N	1
STANDARD AU-S	48

SAMPLE#	AU* ppb
4150E 1450N	8
4150E 1400N	44
4150E 1350N	4
4150E 1300N	4
4250E 4150N	1
4250E 4100N	1
4250E 4050N	4
4250E 4000N	1
4250E 1700N	1
4250E 1650N	3
4250E 1600N	6
4250E 1550N	2
4250E 1500N	2
4250E 1450N	6
4250E 1400N	3
4250E 1350N	5
4250E 1300N	2
4300E 4150N	1
4300E 4100N	3
4300E 4050N	4
4300E 4000N	2
4300E 1700N	4
4300E 1650N	2
4300E 1600N	1
4300E 1550N	1
4300E 1500N	5
4300E 1450N	2
4300E 1400N	5
4300E 1350N	2
4300E 1300N	1
4350E 1700N	1
4350E 1650N	4
4350E 1600N	6
4350E 1550N	4
4350E 1500N	1
4350E 1450N	3
STANDARD AU-S	47



SAMPLE#	AU* ppb
4350E 1400N	2
4350E 1350N	4
4350E 1300N	1
4450E 1700N	2
4450E 1650N	4
4450E 1600N	1
4450E 1550N	5
4450E 1500N	2
4450E 1450N	1
4450E 1400N	21
4450E 1350N	2
4450E 1300N	1
4500E 3600N	17
4500E 3550N	1
4500E 3500N	1
4500E 1700N	2
4500E 1650N	5
4500E 1600N	1
4500E 1550N	2
4500E 1500N	1
4500E 1450N	73
4500E 1400N	3
4500E 1350N	1
4500E 950N	12
4500E 900N	1
4500E 850N	1
4550E 3600N	1
4550E 3550N	1
4550E 3500N	2
4550E 950N	1
4550E 900N	2
4550E 850N	1
4650E 3600N	3
4650E 3550N	3
4650E 3500N	1
4650E 950N	23
STANDARD AU-S	48

SAMPLE#	AU* ppb
4650E 900N	3
4650E 850N	33
4700E 5450N	5
4700E 5400N	3
4700E 5350N	7
4700E 3600N	2
4700E 3550N	1
4700E 3500N	7
4700E 950N	3
4700E 900N	1
4700E 850N	2
4750E 5450N	5
4750E 5400N	2
4750E 5350N	2
4850E 5450N	2
4850E 5350N	4
4900E 5450N	5
4900E 5350N	3
4900E 2350N	1
4900E 2300N	2
4900E 2250N	2
4900E 2200N	2
4900E 2150N	1
4900E 2100N	13
4900E 2050N	5
4900E 2000N	2
4950E 2350N	1
4950E 2300N	2
4950E 2250N	91
4950E 2200N	8
4950E 2150N	4
4950E 2100N	8
4950E 2050N	1
4950E 2000N	3
5050E 2350N	1
5050E 2300N	1
STANDARD AU-S	54

SAMPLE#	AU* ppb
5050E 2250N	9
5050E 2200N	7
5050E 2150N	3
5050E 2100N	3
5050E 2050N	3
5050E 2000N	4
5100E 2350N	1
5100E 2300N	1
5100E 2250N	6
5100E 2200N	2
5100E 2150N	1
5100E 2100N	6
5100E 2050N	2
5100E 2000N	4
5150E 2350N	1
5150E 2300N	1
5150E 2250N	33
5150E 2200N	1
5150E 2150N	3
5150E 2100N	4
5150E 2050N	4
5150E 2000N	5
5250E 6350N	1
5250E 6300N	2
5250E 6250N	1
5250E 2350N	2
5250E 2300N	5
5250E 2250N	1
5250E 2200N	1
5250E 2150N	24
5250E 2100N	5
5250E 2050N	1
5250E 2000N	1
5300E 6350N	1
5300E 6300N	3
5300E 3750N	4
STANDARD AU-S	54

SAMPLE#	AU* ppb
5300E 3700N	1
5300E 3650N	1
5300E 3600N	3
5300E 2350N	1
5300E 2300N	3
5300E 2250N	3
5300E 2200N	1
5300E 2150N	10
5300E 2100N	4
5300E 2050N	20
5300E 2000N	3
5300E 1150N	2
5300E 1100N	1
5300E 1050N	8
5300E 1000N	2
5350E 3750N	4
5350E 3700N	1
5350E 3650N	1
5350E 3600N	4
5350E 1150N	2
5350E 1100N	3
5350E 1050N	3
5350E 1000N	2
5450E 3750N	15
5450E 3700N	1
5450E 3650N	3
5450E 3600N	3
5450E 1150N	21
5450E 1100N	3
5450E 1050N	3
5450E 1000N	3
5500E 7450N	8
5500E 7400N	4
5500E 7350N	6
5500E 7300N	3
5500E 7250N	3
STANDARD AU-S	51

SAMPLE#	AU* ppb
5500E 7200N	1
5500E 7150N	1
5500E 7100N	2
5500E 7050N	3
5500E 7000N	4
5500E 6850N	1
5500E 6800N	1
5500E 6750N	2
5500E 6700N	3
5500E 6650N	6
5500E 6600N	28
5500E 6550N	2
5500E 6500N	4
5500E 3750N	1
5500E 3700N	1
5500E 3650N	1
5500E 3600N	1
5500E 2350N	3
5500E 2300N	3
5500E 2250N	2
5500E 1150N	1
5500E 1100N	3
5500E 1050N	2
5500E 1000N	3
5550E 7450N	1
5550E 7400N	1
5550E 7350N	1
5550E 7300N	2
5550E 7250N	3
5550E 7200N	1
5550E 7150N	15
5550E 7100N	1
5550E 7050N	3
5550E 7000N	2
5550E 6950N	1
5550E 6900N	2
STANDARD AU-S	48

SAMPLE#	AU* ppb
5550E 6850N	1
5550E 6800N	2
5550E 6750N	3
5550E 6700N	2
5550E 6650N	2
5550E 6600N	3
5550E 6550N	1
5550E 6500N	1
5550E 2350N	1
5550E 2300N	2
5550E 2250N	2
5650E 7450N	7
5650E 7400N	33
5650E 7350N	3
5650E 7300N	4
5650E 7250N	4
5650E 7200N	2
5650E 7150N	1
5650E 7100N	2
5650E 7050N	8
5650E 7000N	2
5650E 6950N	1
5650E 6900N	3
5650E 6850N	1
5650E 6800N	3
5650E 6750N	1
5650E 6700N	3
5650E 6650N	4
5650E 6550N	4
5650E 6500N	1
5650E 2350N	2
5650E 2300N	2
5650E 2250N	2
5700E 7450N	2
5700E 7400N	3
5700E 7350N	4
STANDARD AU-S	46

SAMPLE#	AU* ppb
5700E 7300N	1
5700E 7250N	3
5700E 7200N	4
5700E 7150N	7
5700E 7100N	1
5700E 7050N	3
5700E 7000N	3
5700E 6950N	4
5700E 6900N	7
5700E 6850N	3
5700E 6800N	1
5700E 6750N	1
5700E 6700N	4
5700E 6600N	7
5700E 6550N	2
5700E 6500N	5
5700E 6050N	1
5700E 6000N	5
5700E 5950N	4
5700E 3950N	1
5700E 3900N	9
5700E 3850N	4
5700E 3250N	1
5700E 3200N	2
5700E 3150N	1
5700E 3100N	5
5700E 2350N	3
5700E 2300N	2
5700E 2250N	40
5700E 2100N	2
5700E 2050N	1
5700E 2000N	1
5700E 1950N	1
5700E 1900N	4
5700E 1850N	1
5700E 1800N	1
STANDARD AU-S	50

SAMPLE#	AU* ppb
5700E 1750N	4
5700E 1700N	2
5700E 1650N	2
5700E 1600N	1
5750E 7450N	4
5750E 7350N	2
5750E 7300N	4
5750E 7250N	4
5750E 7200N	2
5750E 7150N	2
5750E 7100N	2
5750E 7050N	1
5750E 7000N	3
5750E 6950N	2
5750E 6900N	4
5750E 6850N	5
5750E 6800N	2
5750E 6750N	2
5750E 6700N	3
5750E 6650N	3
5750E 6600N	24
5750E 6550N	1
5750E 6500N	2
5750E 6050N	2
5750E 6000N	2
5750E 5950N	1
5750E 3950N	3
5750E 3900N	1
5750E 3850N	1
5750E 3250N	1
5750E 3200N	2
5750E 3150N	1
5750E 3100N	1
5750E 2100N	30
5750E 2050N	14
5750E 2000N	3
STANDARD AU-S	54

SAMPLE#	AU* ppb
5750E 1950N	1
5750E 1900N	2
5750E 1850N	2
5750E 1800N	3
5750E 1750N	1
5750E 1700N	3
5750E 1650N	2
5750E 1600N	3
5850E 6950N	79
5850E 6900N	2
5850E 6850N	3
5850E 6800N	1
5850E 6750N	1
5850E 6700N	1
5850E 6650N	1
5850E 6600N	8
5850E 6550N	27
5850E 6500N	1
5850E 6050N	1
5850E 6000N	1
5850E 3950N	1
5850E 3900N	1
5850E 3850N	1
5850E 3250N	1
5850E 3200N	1
5850E 3150N	5
5850E 3100N	1
5850E 2100N	2
5850E 2050N	1
5850E 2000N	1
5850E 1950N	3
5850E 1900N	1
5850E 1850N	1
5850E 1800N	3
5850E 1750N	1
5850E 1700N	3
STANDARD AU-S	54

SAMPLE#	AU* ppb
5850E 1650N	1
5850E 1600N	2
5900E 6050N	4
5900E 6000N	5
5900E 5950N	3
5900E 3950N	3
5900E 3850N	17
5900E 3250N	1
5900E 3200N	3
5900E 3150N	1
5900E 3100N	1
5900E 2100N	7
5900E 2050N	97
5900E 2000N	6
5900E 1950N	4
5900E 1900N	1
5900E 1850N	3
5900E 1800N	1
5900E 1750N	2
5900E 1700N	1
5900E 1650N	22
5900E 1600N	2
STANDARD AU-S	50

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

DATE RECEIVED: AUG 22 1990

DATE REPORT MAILED: *Aug. 29/90*

*Aug 28 90*

### GEOCHEMICAL ANALYSIS CERTIFICATE

Cordilleran Engineering Ltd. PROJECT SUNSET #2 FILE # 90-3760  
1980 - 1055 W. Hastings S, Vancouver BC V6E 2E9 Attn: E.A. BALON

SAMPLE#	AU* ppb
SUN90-S1	9
SUN90-S2	126
SUN90-S3	7
SUN90-S4	1
SUN90-S5	6
SUN90-S6	65
SUN90-S7	9
SUN90-S8	4
SUN90-S9	2
SUN90-S10	4
SUN90-S11	2
SUN90-S12	5
SUN90-S13	3
SUN90-S14	5
SUN90-S15	2
SUN90-S16	4
SUN90-S17	4
SUN90-S18	7
SUN90-S19	2
SUN90-S20	5
STANDARD AU-S	54

- SAMPLE TYPE: P1 SOIL P2 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

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

DATE RECEIVED: SEP 19 1990

DATE REPORT MAILED: *Sept. 27/90*

### GEOCHEMICAL ANALYSIS CERTIFICATE

Cordilleran Engineering Ltd. PROJECT SUNSET #8 FILE # 90-4592  
1980 - 1055 W. Hastings S, Vancouver BC V6E 2E9 Attn: E.A. BALON

SAMPLE#	AU* ppb
SUN90-S21	2

- SAMPLE TYPE: P1 SOIL P2 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

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

DATE RECEIVED: AUG 1 1990

DATE REPORT MAILED: *Aug. 9/90.*

### GEOCHEMICAL ANALYSIS CERTIFICATE

Cordilleran Engineering Ltd. PROJECT SUNSET #1 FILE # 90-3069  
1980 - 1055 W. Hastings St., Vancouver BC V6E 2E9 Attn: JOHN CORMIER

SAMPLE#	Ag ppm	Au* ppb
SNST 90-R1	7.7	31

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. King* ..... D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

Cordilleran Engineering Ltd. PROJECT SUNSET #8 FILE # 90-4592

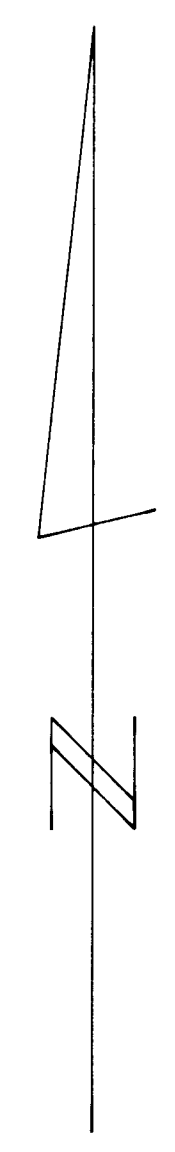
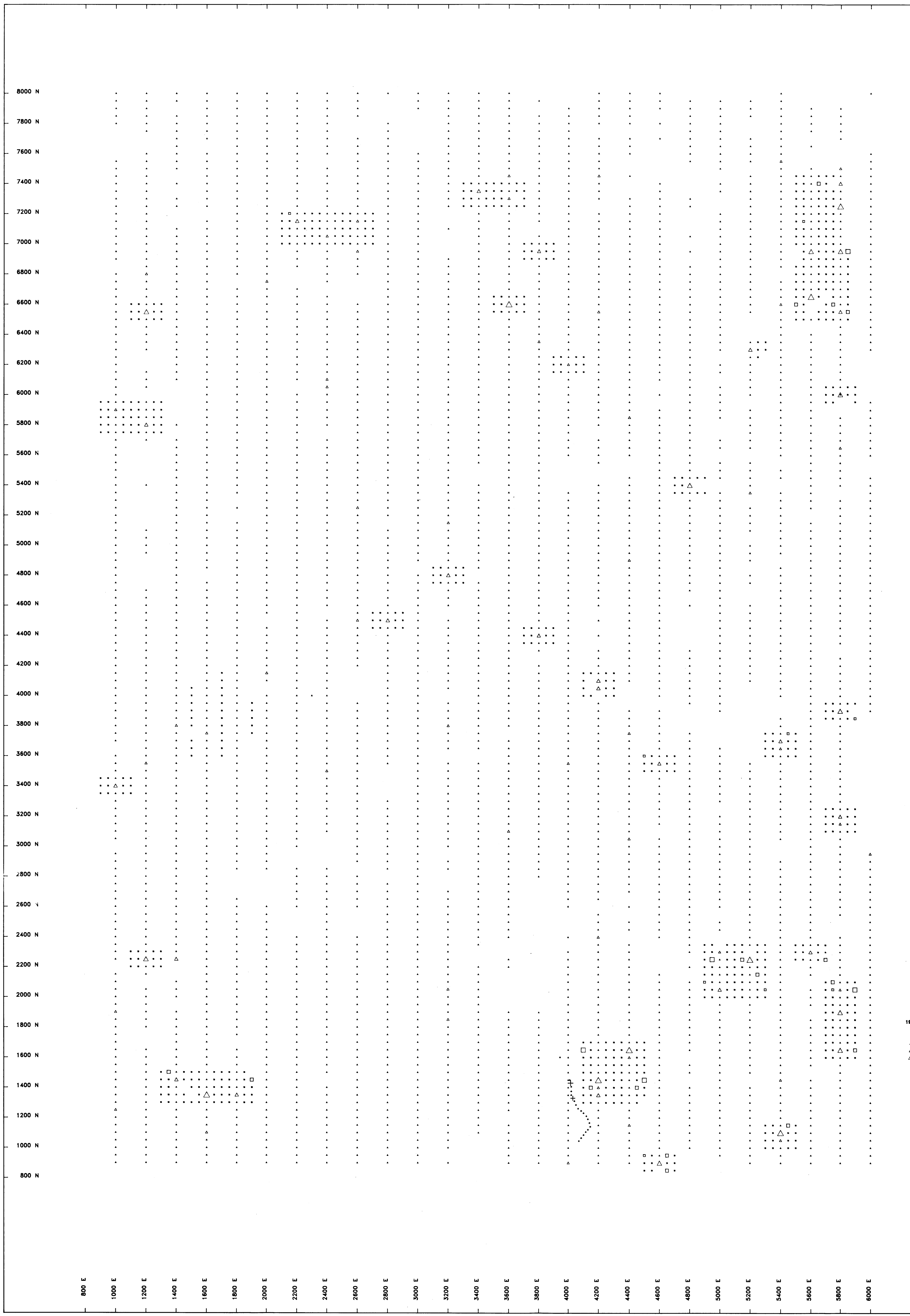
SAMPLE#	Ag ppm	Au* ppb
SNST90-R3	.2	8

*(20gm)*

Cordilleran Engineering Ltd. PROJECT SUNSET 32 FILE # 90-3760

SAMPLE#	Ag ppm	Au* ppb
SNST90-R2	.1	32

*(20gm)*



**SYMBOLS**

1989	(recon) 1990	1990
.	.	LESS THAN AND EQUAL TO 10 PPB AU
△	+	GREATER THAN 10 PPB AU
△	□	GREATER THAN 20 PPB AU
△	+	GREATER THAN 50 PPB AU
△	□	GREATER THAN 100 PPB AU

NOTE: For grid location refer to figure 2  
**GEOLOGICAL BRANCH**  
**ASSESSMENT REPORT**

**20,815**  
 FAIRFIELD MINERALS LTD.  
 SUNSET PROPERTY  
 AU SOIL  
 GEOCHEMISTRY  
 SIMILKAMEEN MINING DIVISION  
 NTS 92H16E  
 1: 10000  
 Cordilleran Engineering Ltd.  
 1980-1055 West Hastings St.  
 Vancouver, B.C.  
 V6E 2E9  
 Dec. 1990 PLATE 1