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GEOLOGICAL, GEOCHEMICAL AND GEOPHYSICAL REPORT

on the

BELL AND JUNIPER 5 AND 6 MINERAL CLAIMS

and

JUNIPER (LOT 1604) AND BULLION FR. (LOT 3450) REV CGS

Olalla Area
Osoyoos Mining Division

82E-4W, 5W
(49°15' N. Lat., 119°49' Long.)

for

GRANT F. CROOKER
Box 404
Keremeos, B.C.
VOX 1NO
(OWNER AND OPERATOR)

by

GRANT F. CROOKER, B.Sc., P.Ge.,
CONSULTING GEOLOGIST

GEOLOGICAL BRANCH
ASSESSMENT REPORT

March, 1992

22,256

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SUMMARY AND RECOMMENDATIONS

The Juniper-Bell Property is located approximately five kilometers north of Keremeos at Olalla, B.C. and is owned by Grant Crooker of P.O. Box 404, Keremeos, B.C. It consists of one modified grid claim (Bell), six two post claims (Juniper 1 to 6) and two Reverted Crown Grants (Juniper Lot 1604, Bullion Fr Lot 3450).

The Olalla area has been the scene of exploration for base and precious metals since the late 1890's. A number of properties including the Shepherd-Sunrise, Golconda, Something Good, Dolphin and Bullion have been actively explored since that time.

Previous work on the Juniper-Bell property has discovered a number of small showings with gold and silver values. Mineralization is related to skarns, shears and quartz veins. The highest assay values have been from 3 to 6 centimeter wide quartz veinlets which gave up to 0.324 oz/ton gold and 17.20 ozs/ton silver. Skarn mineralization on the Juniper Reverted Crown Grant has given values up to 0.084 oz/ton gold. A magnetite rich skarn which has been silicified and carbonate altered occurs at line 11700E & 10175N. It is poorly exposed and of unknown extent and rock sampling gave values up to 1030 ppb (0.03 oz/ton) gold.

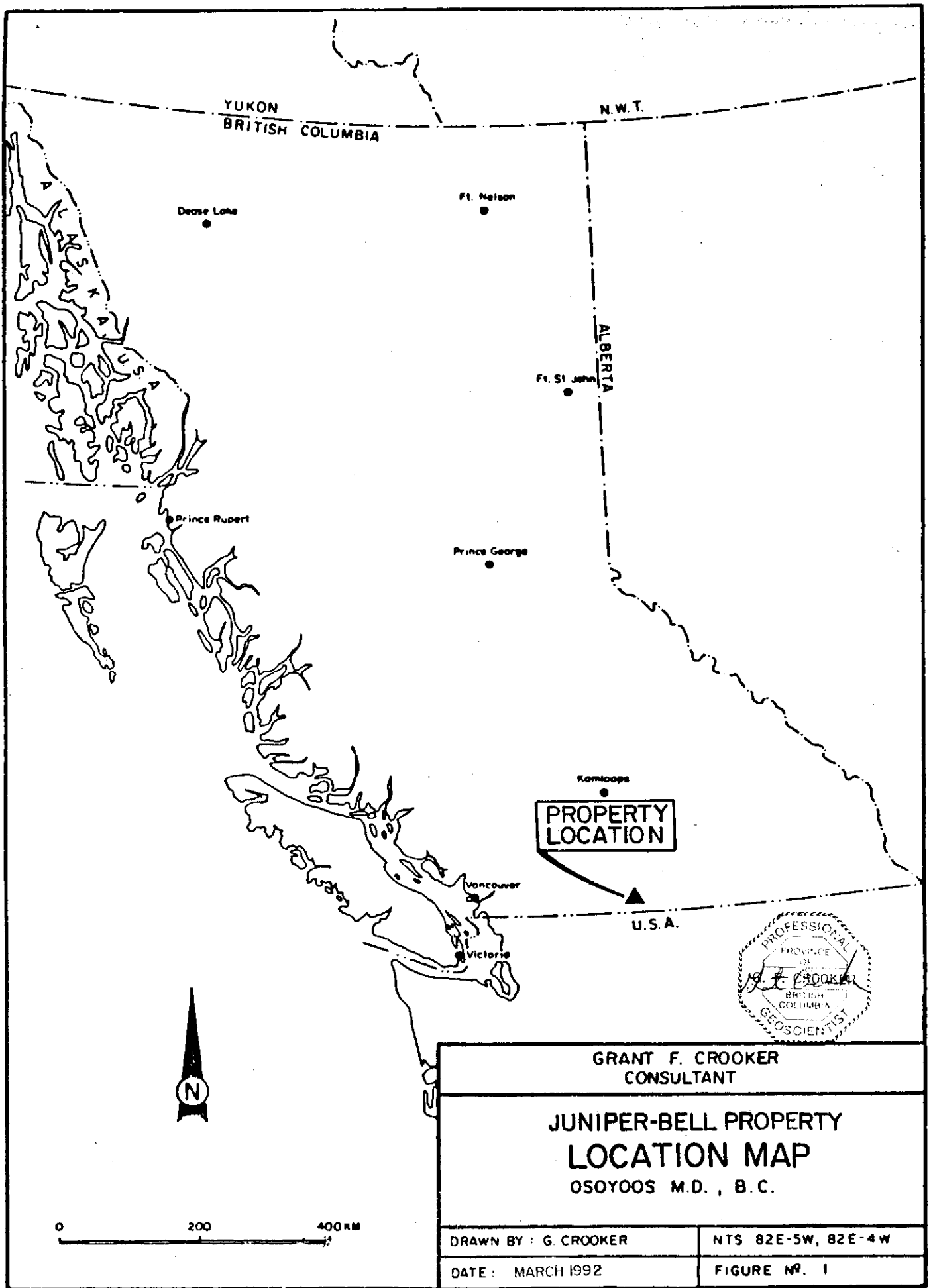
The 1992 exploration program consisted of establishing or re-establishing grid lines, VLF-EM surveying, soil geochemical sampling, geological mapping and prospecting.

Geological mapping showed most of the western portion of the Bell claim to be underlain by pyroxenite and syenite of the Olalla Stock. This stock has intruded sedimentary and volcanic rocks of the Apex Mountain Group in the southwestern corner of the Bell claim.

The VLF-EM survey outlined a large number of weak to moderate conductors. Many of the conductors are associated with known geological, geochemical or geophysical features, but a large number have no apparent cause.

Two small gold soil geochemical anomalies were outlined by a combination of the 1988 and 1992 soil surveys. Anomaly A appears to be associated with down slope dispersion from the Something Good showing. Anomaly B occurs in an area covered by talus and no cause is apparent for this anomaly.

A number of old pits, trenches and other workings were mapped and sampled during this program. Most of the mineralization in the workings is associated with shear zones. Some of the shearing occurs along the contact of the stock while other shearing occurs 100 to 200 meters south of the contact. Pyrite and lesser chalcopyrite occur within the shear zones, generally over widths of 30 cm.



GRANT F. CROOKER CONSULTANT	
JUNIPER-BELL PROPERTY LOCATION MAP OSOYOOS M.D. , B. C.	
DRAWN BY : G. CROOKER	NTS 82E-5W, 82E-4W
DATE : MARCH 1992	FIGURE Nº. 1

Copper and gold values were disappointing. A number of copper values were in the 3000 to 5000 ppm range with the best value 13995 ppm over 30 cm. The highest gold value was 810 ppb over 30 cm.

Recommendations are as follows:

- 1) The strongest VLF-EM conductors and those conductors which may be associated with known geological or geochemical features should be ground checked.
- 2) Geological mapping and prospecting should be completed on the eastern portion of the property, with particular emphasis on the area of the West Tunnel.

Respectively submitted,



Grant Crooker, B.Sc., P. Geo.,
Consulting Geologist

1.0 INTRODUCTION

1.1 GENERAL

Work was carried out on the Juniper-Bell Property by Grant Crooker, Geologist, from November 11, 1991 through March 14, 1992.

The 1988 grid was re-established as the lines were no longer usable, while the 1990 grid was found to be still usable. A number of additional lines were also established during 1992. A VLF-EM survey was carried out over the entire grid, and geological mapping, prospecting and limited soil sampling were carried out over the western portion of the grid.

1.2 LOCATION AND ACCESS

The property (Figure 1) is located at Olalla, 5 kilometers north of Keremeos in Southern British Columbia. The property lies between 49°14' and 49°16' north latitude and 119°48' and 119°50' west longitude (NTS 82E-4W, 5W).

Access to the property is via Highway 3A, which bisects the property. Several logging and mining roads give good access to various areas of the property.

1.3 PHYSIOGRAPHY

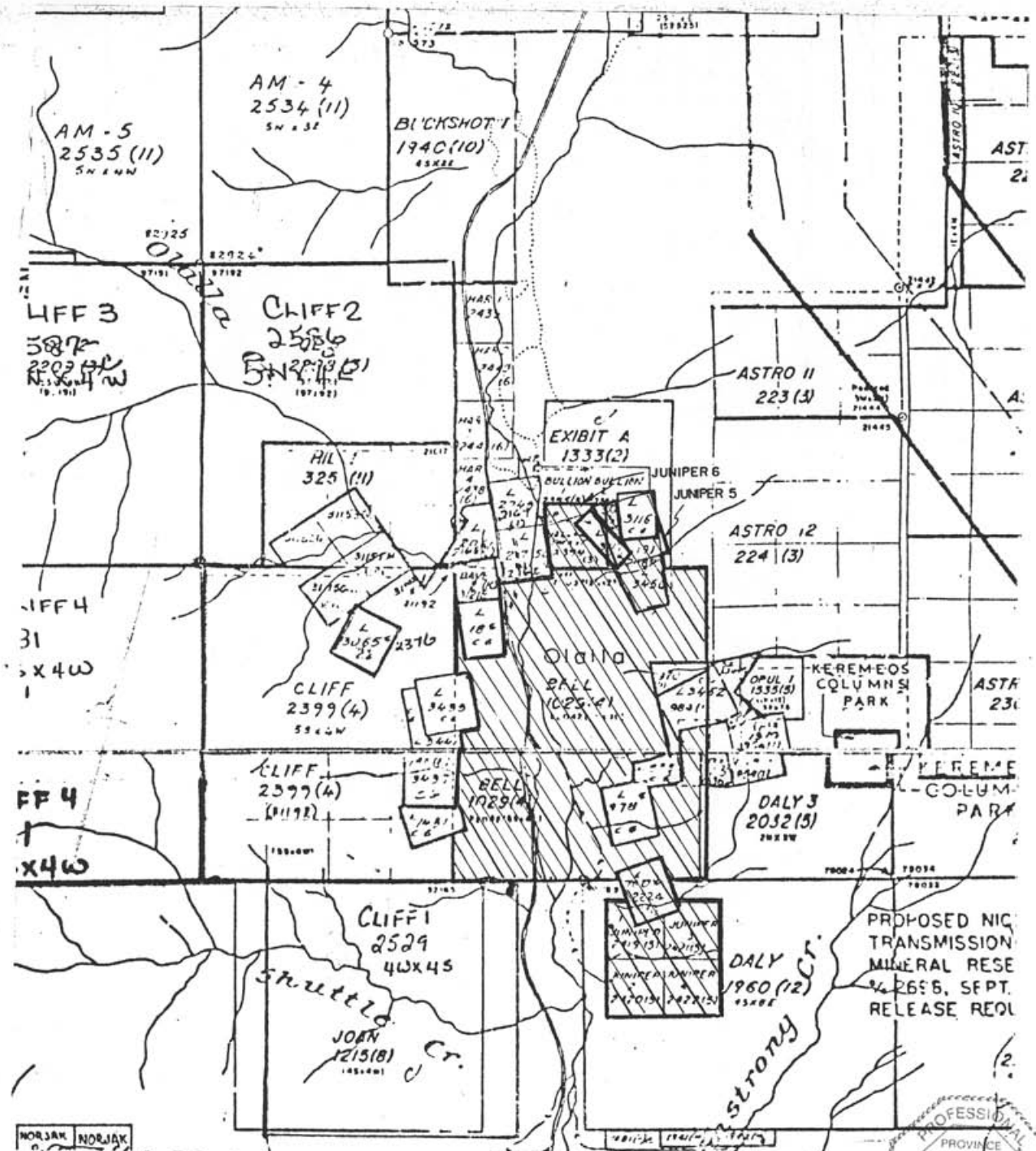
The property covers the bottom of the Keremeos Creek Valley and extends up the hillsides on the east and west sides of the valley. Elevation varies from 500 to 1000 meters above sea level and topography varies from flat on the valley bottom to steep, impassable cliffs on the valley sides. A number of areas are extremely precipitous.

Keremeos Creek flows in a southerly direction through the claims. Vegetation consists of sage-brush and bunch grass with scattered fir and pine trees.

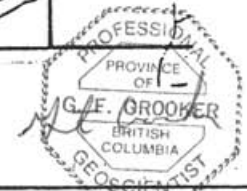
1.4 PROPERTY AND CLAIM STATUS

The Juniper-Bell Property (Figure 2) is owned by Grant Crooker of Keremeos, B.C.

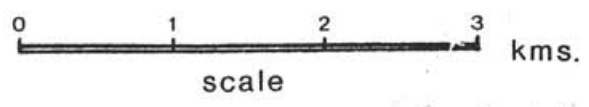
The property consists of one modified grid claim (Bell), six two post claims (Juniper 1 to 6) and two reverted Crown Grants (Juniper Lot 1604, Bullion Fr Lot 3450). The property is located in the Osoyoos Mining Division.



NORJAK NORJAK



GRANT F. CROOKER	
JUNIPER-BELL PROPERTY	
CLAIM MAP	
DRAWN BY: G. CROOKER	N.T.S. : 82 E - 4W, 5W
DATE: MARCH 1992	FIGURE NO. 2



Claim	Units	Mining Division	Tenure No.	Record Date	Expiry Date
Bell	20	Osoyoos	246250	04/24/80	04/24/95*
Juniper	1	Osoyoos	246559	05/13/85	05/13/97*
Juniper 1	1	Osoyoos	246615	05/12/86	05/12/92
Juniper 2	1	Osoyoos	246616	05/12/86	05/12/92
Juniper 3	1	Osoyoos	246617	05/12/86	05/12/92
Juniper 4	1	Osoyoos	246618	05/12/86	05/12/92
Juniper 5	1	Osoyoos	247173	04/04/90	04/04/97*
Juniper 6	1	Osoyoos	247174	04/04/90	04/04/97*
Bullion Fr	1	Osoyoos	247160	03/15/90	03/15/97*

*Upon acceptance of this report.

1.5 AREA AND PROPERTY HISTORY

The property is located in the Olalla Gold Camp in southern British Columbia (Figure 3). Mining activity has been carried out in this area since the 1880's.

The property is located 20 kilometers southeast of Hedley, where Mascot Gold Mines Limited began production early in 1987. Mining is by open pit methods.

A number of mining properties have been explored in the Olalla area since the 1880's. These include the Opulence, Bullion, Dolphin, Golconda, Something Good and Shepherd-Sunrise. Exploration has been oriented towards copper, molybdenum, silver and gold. Goldcliff Resource Corporation has been carrying out exploration on the Cliff Claims immediately east of the Bell Claim since 1986. Exploration has been directed towards gold with encouraging results.

On the Something Good property (Lot 1451, Minfile 82E-SW-014) immediately west of the Bell Claim, a carbonate shear and breccia zone occurs in argillaceous and cherty sediments near the contact of a large pyroxenite body. Calcite, quartz and pyrite occur within the zone.

Three adits were driven on the zone in 1936-1937. The No. 1 adit (2541 feet ASL) was driven for 350 feet, and followed the footwall of the shear zone. The first 110 feet of the adit followed a well defined breccia zone. Samples taken by the resident geologist for the B.C. Dept. of Mines in 1937 (M.S. Hedley) ranged from 0.05 ounces per ton gold over 54 inches to 2.20 ounces per ton gold over 11 inches. Beyond this point the graphitic shear contained negligible gold values. The No. 3 adit (2342 feet ASL) was driven for 385 feet in the pyroxenite. Negligible gold values were encountered in the adit. Limited diamond drilling was also carried out, and some gold values were reported.

On the Golconda property (Minfile 82E-SW-016) located one kilometer west of the Bell property a shear zone up to five feet wide and made up of one or more slickensided and gouge filled fault planes cuts pyroxenite. A number of quartz lenses between 30 and 60 feet long and 12 to 50 inches wide occur within the shear zone. These zones appear to occur at changes in attitude in the structure. The quartz is crudely banded and contains pyrite, chalcopyrite, molybdenum and minor galena. Values in gold and silver also occur within the structure.

Several adits follow the shear zone, which strikes south 56° east. Limited production has come from the property, and a small mill has operated several times.

The Opulence property (Lot 1910, Minfile 82E-SW-074) is located along the eastern boundary of the Bell claim. Several shafts as well as a number of trenches are found on the property and copper oxide mineralization is found at most of the workings. Chalcopyrite is found at a few locations, mainly associated with a diorite intrusion. Diamond drilling was carried out on the property in 1969 but no information is available as to the results of the drilling.

The Shepherd-Sunrise property (Lot 18s, Minfile 82E-SW-015) located along the western boundary of the Bell Claim appears to have the most economically significant mineralization in the Olalla Camp. Several mineralized quartz veins on the property have been explored by trenching, diamond drilling and several adits.

The diamond drilling was carried out in two phases, the first between 1946 and 1948 by Hedley-Monarch Mines Ltd., and the second during 1961 and 1962 by Friday Mines Ltd. The work has indicated ore reserves of 3100 tons of 0.85 ounces per ton gold and 2.00 ounces per ton silver. It has been reported that 300 tons of ore averaging 0.53 ounces per ton gold and 0.45 ounces per ton silver were shipped during the 1946-1948 period.

The mineralization appears to be related to the east-west striking Valley Fault. During drilling on the quartz veins, a gold bearing pyritic-silicious breccia zone was discovered. This breccia zone also appears to be related to the Valley Fault, and reported drill hole intersections are as follows:

D.H. No.	Intersection	Width	oz Au	oz Ag	Location
H-5	315.6'-354.7'	39.1'	0.056	0.14	Shepherd-Sunrise
H-8	383.0'-391.1'	8.1'	0.330	1.08	Shepherd-Sunrise
H-8	365.2'-400.7'	35.5'	0.110	0.35	Shepherd-Sunrise
H-10	354.9'-360.1'	5.2'	0.063	0.25	Shepherd-Sunrise
H-10	403.8'-411.7'	7.9'	0.139	0.53	Shepherd-Sunrise

Some of these drill intersections are within 200 meters of the Bell Claim boundary, although the exact drill hole locations have been lost.

The Juniper-Bell property surrounds the Bullion property (Lots 3116, 3117, 82E-SW-013). The Bullion property contains quartz vein and/or breccia mineralization as well as skarn mineralization. The most significant gold mineralization is associated with the skarns but the quartz veins and breccias also contain anomalous amounts of gold. The skarn mineralization has developed where diorite has contacted limestones and limey sediments of the Apex Mountain Group.

A number of references are available on the Bullion with the most comprehensive being plan and section maps compiled by C.C. Starr in 1934. This work shows 3 main adits at the 2680 (No. 1), 2500 (No. 2) and 2025 (No. 3) foot levels ASL.

The most significant skarn mineralization occurs in the area of the No. 1 adit where numerous workings have exposed garnet skarns with pyrite, pyrrhotite, magnetite and chalcopyrite. Gold values of 3.0 oz/ton and silver values of 0.70 oz/ton are reported over 4.6 feet. A number of other significant gold and silver assays have been taken in the area including two by Friday Mines Ltd. in 1962 which gave 3.0 feet of 0.88 oz/ton and 3.25 feet of 0.32 oz/ton gold. The higher gold values appear to be associated with higher copper values.

The No. 2 and No. 3 adits were driven to intersect the mineralization at a lower elevation. The No. 2 adit did not intersect significant mineralization while the No. 3 adit was not driven far enough to intersect the mineralized zone.

On the Juniper-Bell property, a small pie shaped fraction between the Bullion Crown Grants was acquired by staking the Juniper 5 and 6 mineral claims. This pie shaped fraction contains the West Tunnel which was sampled by Starr in 1934. The highest value returned from this sampling was 0.04 oz/ton gold and 0.34 oz/ton silver over 3.5 feet in skarn mineralization.

Two references were found on the Juniper-Bell property in the B.C. Department of Mines Annual Reports for 1899 and 1900. They report several open cuts and a 40 feet deep shaft in the vicinity of the Roadside showing (108+00E and 83+00N). Good copper ore assaying about \$ 7.00 per ton in gold was reported.

During the period 1980 through 1990 geological mapping, prospecting, geophysical surveys and geochemical sampling were carried out over much of the property by the present owner. Several skarn zones, shear zones and narrow quartz veins containing anomalous gold and silver values were found.

The highest assays of 0.324 oz/ton gold and 17.20 ozs/ton silver were obtained from a 3 to 6 centimeter wide quartz vein above adits B and C. The quartz vein contained malachite, azurite, chalcopryrite and tetrahedrite. Several other 3 to 5 cm wide quartz veins with up to 0.198 ounces per ton gold and 17.20 ounces per ton silver occur at Adits B and C.

Skarn mineralization occurs on the Juniper claim at Adit A. A northeast striking, steeply northwest dipping limestone lens 50 meters long and 3 to 5 meters wide has been partially skarnified. Massive pyrrhotite and pyrite occur sporadically throughout the lens and gold values ranged from 0.002 to 0.176 ounces per ton gold.

During 1984 a limited X-ray diamond drilling program was attempted in the vicinity of the Roadside showing. Two holes totalling 19.76 meters were drilled when the program was abandoned due to hard, broken ground and poor core recovery. A sludge sample from DDH-84-1 ran 15.5 ppm silver over 5.80 meters and a sludge sample from DDH-84-2 ran 1258 ppm copper over 1.55 meters. No anomalous gold values were returned from the sludge samples.

A trench found in 1990 and located at 117+00E and 101+75N exposes a magnetite rich skarn with pervasive silicification and carbonate alteration. Up to 5% pyrite occurs within the zone and gold values of up to 1030 ppb were obtained.

2.0 EXPLORATION PROCEDURE

The grid which was established over the property in 1988 was re-established in 1992 as the station flags were either gone or not readable. Several additional grid lines were also established. The baseline was established along line 80+00N north and crosslines ran at right angles to the baseline. Geological mapping, prospecting, soil sampling and a VLF-EM survey were carried out over the grid.

GRID PARAMETERS

- baseline direction E-W
- survey lines perpendicular to baseline
- survey line separation 100 meters
- survey station spacing 25 meters, slope corrected
- survey total - 18.175 kilometers
- declination 21°

GEOCHEMICAL SURVEY PARAMETERS

- survey line separation 100 meters
- survey sample spacing 25 meters
- survey totals - 1.5 kilometers
 - 40 soil samples collected
 - 13 rock samples collected
- soil samples analyzed for Au
- rock samples analyzed for Au and 31 element ICP
- soil sample depth 5 to 15 centimeters
- sample taken from brown B horizon where possible
- sample taken from brown C horizon on talus slopes

All samples were sent to Mineral-Environments Laboratories, 705 West Fifteenth Street, North Vancouver, B.C., V7M 1T2 for geochemical analysis. Laboratory technique for soil samples consists of preparing samples by drying at 95° C and sieving to minus 80 mesh. Rock samples are prepared by drying at 95° C and grinding to minus 80 mesh.

A 31 element ICP analysis and gold analysis were carried out on all rock samples, with the gold analysis only being carried out on the soil samples. The gold analysis consists of aqua-regia digestion, atomic adsorption finish. Sensitivity for gold is five ppb.

The soil geochemical data was plotted on figure 5 and the rock geochemical data on figure 4. Both maps are at a scale of 1:5,000.

GEOPHYSICAL SURVEY PARAMETERS

VLF-EM SURVEY

- survey line spacing 100 meters
- survey station spacing 25 meters
- survey totals - 24.05 kilometers
- instrument - Geonics EM-16
- transmitting station - Seattle - 24.8 Khz.
- direction faced - northwesterly
- in-phase (dip angle) and out-of-phase (quadrature)
- components measured in percent at each station

The VLF-EM profiles were plotted on figure 6 at a scale of 1:5,000 and the data listed in Appendix IV.

3.0 GEOLOGY AND MINERALIZATION

3.1 REGIONAL GEOLOGY

The Juniper-Bell property is located within the Intermontane Belt of British Columbia. An ultramafic to alkalic stock in the central portion of the property (Figure 3) has intruded marine sedimentary and volcanic rocks in the northern and southern portions of the property.

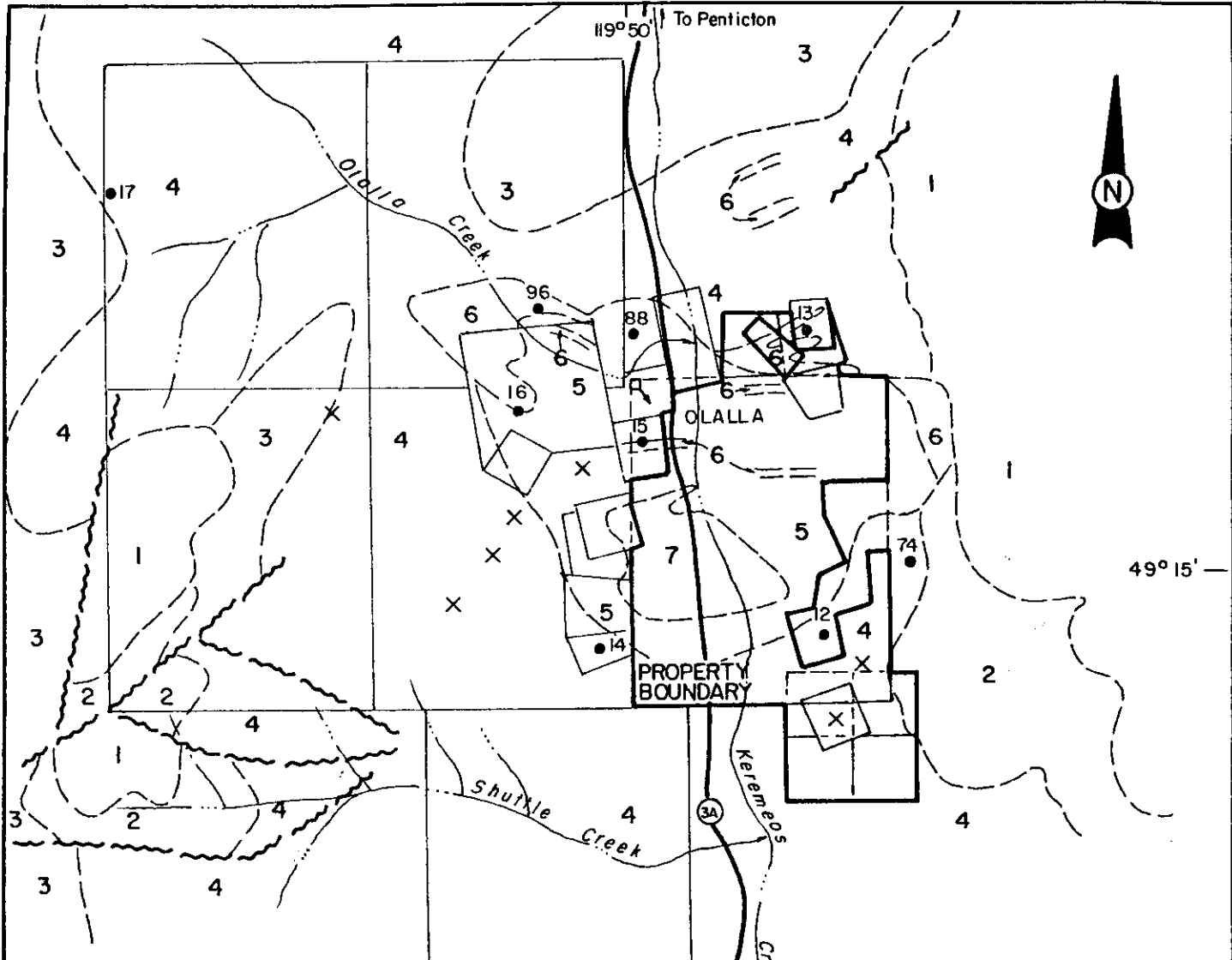
Early work in the area by Bostock and others described the marine sedimentary and volcanic sequence as belonging to the Old Tom, Shoemaker, Bradshaw and Independence Formations. However as these formations do not form distinct, mappable units, Milford (1984) referred to the sequence as the Apex Mountain Group.

The Apex Mountain Group consists of five major lithofacies: massive and bedded chert, greenstone, chert breccia, argillite and limestone. Together they form a broadly folded, east dipping sequence that has an overall increase in age towards structurally higher rocks in the area. The maximum and minimum ages based on faunal ages in limestone and chert are Early Carboniferous and Middle to Late Triassic respectively.

The depositional environment of the Apex Mountain Group is interpreted to be generally deep, open-ocean basin. Shallow water deposition occurred locally. The group is interpreted to represent at least part of an ancient subduction complex that formed by eastward directed underthrusting and accretion of successively younger slices of oceanic sedimentary and volcanic rocks.

Other assemblages possibly temporally correlative with the Apex Mountain Group include the Kobau, Chapperon, Harper Ranch and Cache Creek Groups.

The ultramafic to alkalic stock occupies approximately six square miles and is of late Mesozoic age. The stock grades from a peripheral zone of pyroxenite, high in mafics and magnetite, to a magnetite deficient granitic core. Faulting with associated veining, brecciation and mineralization occurred as contemporaneous or post consolidation features.



Min. File No.	Property name	Product
82E-5W-12	Dolphin	Cu, Ag
-13	Bullion	Au, Cu
-14	Something Good	Au
-15	Sunrise	Au
-16	Golconda	Cu, Mo, Au
-17	Dief	Mn, Pb
-88	Homestead	Cu
-96	Olalla	Ag, Au
-74	Opulence	Cu

LEGEND

- X Gold showing
- Legal corner post

ROCK	TIME / UNIT	FORMATIONS
VOLCANIC & SEDIMENTARY	TERTIARY	
	1 Basalts	MARRON
	2 Conglomerates, sandstones	KETTLE RIVER
METAMORPHIC	PERMIAN	
	3 Greenstone	OLD TOM
	4 Chert	SHOE MAKER
PLUTONIC	MESOZOIC	
	5 Pyroxenite	
	6 Diorite	
	7 Syenite	

To Vancouver ← ← To Osoyoos →

KEREMEOS

GRANT F. CROOKER

JUNIPER-BELL PROPERTY

PROPERTY GEOLOGY

N.T.S. 82E-4W,5W OSOYOOS M.D., B.C.

0 1 2 3 KM.

SCALE 1:50,000	DATE: MARCH 1992
DRAWN BY: G.F. Crooker	FIGURE No. 3

3.2 CLAIM GEOLOGY

The 1992 program of geological mapping concentrated on the western portion of the Bell claim on lines 106E through 110E.

Ultramafic to alkalic intrusive rocks of the Olalla Stock underlie the central portion of the property. Fine grained, light grey to buff to pink syenite (Unit 3, Figure 4) occurs within the central core of the stock. The main constituent is orthoclase with augite being the main ferromagnesium mineral. Coarse grained pink syenite dykes are found along the contact with the pyroxenite.

Augite pyroxenite (Unit 2) makes up the largest portion of the stock. This is a dark green, fine to medium grained equigranular rock consisting almost entirely of subhedral augite with varying amounts of magnetite. Occasionally large books of biotite occur within the pyroxenites. This unit occurs peripherally to the syenite. To the south of the syenite the pyroxenite is in the order of 200 meters wide while to the north it forms a zone many hundreds of meters wide.

The southern portion of the property is underlain by sedimentary and volcanic rocks of the Apex Mountain Group (Unit 1). This is generally a black, grey or green chert or a light grey quartzite. Very fine grained greenish greenstone and light blue crystalline limestone are found within the Apex Mountain Group. In the area of line 106E and 80+35N thinly bedded limestones occur within the multi-coloured cherts. The contact with the pyroxenite generally occurs about 84+00N along the grid lines. Hornfels alteration was noted near the contact with the pyroxenite.

Three aplite dykes were noted at the northern end of lines 109E and 110E. The aplite dykes (Unit 5) are 5 to 20 meters wide, trend north to northeast and dip moderately to the west. They cut the pyroxenite and are probably associated with a small granitic body located on Lot 18s. The dykes are of unknown strike length and are fine grained, highly silicious pinkish tinged rocks.

1.3 MINERALIZATION

Prospecting and sampling carried out during the 1992 program concentrated on the southwest corner of the Bell claim (figure 4), although one day was spent in the area of the West Tunnel on the Juniper 5 claim. A number of old pits and workings were found during prospecting and most of the mineralization associated with them is related to shear zones. Thirteen rock samples were collected and analyzed by 31 element ICP and for gold.

Prospecting around the West Tunnel disclosed a considerable amount of skarn mineralization near the portal. There is weak to moderate silicification within the skarn but sulphide mineralization is sparse. A large open cut approximately 50 meters below the adit also showed skarn mineralization. Large cliffs some 150 meters north of the adit showed rusty, hornfels altered cherts and quartzites. Some outcrops contain up to 5% pyrite.

An old three meter long trench was found at 10600E & 8035N. The trench is sloughed in but the walls show weak calcite veinlets and segregations up to 5 mm in width. Orange iron oxides occur throughout the alteration and in some cases surround chert breccia fragments. Two rock samples (E004-001 & 002) were taken but they did not give any anomalous values. Two soil samples taken adjacent to the trench gave weakly anomalous gold values of 23 and 22 ppb.

A number of old pits occur from 10625E & 8300N to 10700E & 8335N. They occur along the contact of the stock and the sediments and expose shearing with limonite on the surface and massive, crushed pyrite deeper in the pits. The shearing strikes between 335° and 340° and dips 30° to 50° east. Three rock samples were taken from trenches (E004-004, 005 & 006) but they gave no anomalous gold values. One sample did give 7.3 ppm silver and another sample 760 ppm copper. Soil sampling in the area gave a maximum value of only 34 ppb gold.

A shaft approximately eight meters deep is located at 10805E & 8205N and a small pit at 10815E & 8205N. The shaft exposes a one meter wide sheared and oxidized zone striking 080° and vertical. The zone has been drifted on at the bottom of the shaft but the length of the drift is unknown. Most of the material on the dump is highly oxidized, however a number of pieces of garnet skarn with crystalline white calcite and pyrite were also found. The skarn originated from the shaft but nothing was seen in the shaft to indicate its origin. Two rock samples (E004-008 & 009) of the skarn gave no anomalous gold, silver or copper values but E004-008 contained 57 ppm molybdenum.

The small pit located immediately east of the shaft also exposes shearing. A 30 cm wide zone of oxidized gouge and calcite within the larger shear contains chalcopryrite and malachite. This zone strikes 214° and is vertical. A rock sample (E004-010) of the 30 cm wide zone gave 13,995 ppm copper, 15.3 ppm silver and 810 ppb gold. These were the highest copper, silver and gold values for the program.

Another old trench is located at 10795E & 8330N. It is seven meters long by two meters wide and follows a one meter wide shear zone striking 245° and dipping 66° north. A 1 to 45 cm wide calcite vein containing pyrite, chalcopryrite, malachite and bornite? occurs within the shear zone. Rock sample E004-011 was taken from the calcite vein and returned 239 ppb gold, 2.4 ppm silver and 3165 ppm copper.

Two large trenches are located at approximately 10810E & 8330N. Both trenches show shearing striking from 268° to 276° and dipping from 70° to 85° north. Most of the exposed material is strongly oxidized with the exception of massive pyrite skarn in the bottom of one trench. Narrow fractures also contain and quartz and calcite. A rock sample (E004-012) of skarn? material containing 20% pyrite and traces of malachite returned 27 ppb gold, 5.1 ppm silver and 5428 ppm copper.

One other small, sloughed trench was found at 10910E & 8115N. Dump material was a grey-white, rusty quartzite containing 1% pyrite, ½% chalcopryrite and traces of malachite and azurite. One rock sample (E004-013) returned 10 ppb gold, 0.8 ppm silver and 3761 ppm copper.

4.0 GEOCHEMISTRY

4.1 SOIL GEOCHEMISTRY

Gold

Forty soil samples were taken and analyzed for gold (figure 5). The soil samples were taken in the southwest corner of the grid where soil sampling in 1988 gave a number of anomalous values.

The gold values for the 1992 survey ranged from 1 to 330 ppb and values 15 ppb and greater were considered anomalous. Twelve samples were anomalous and two small anomalies outlined.

Anomaly A is a small four sample anomaly with one value of 330 ppb gold. It occurs downslope and along strike with the Something Good shear zone and is probably caused by dispersion from this gold showing.

Anomaly B is a small five sample anomaly with one value of 300 ppb. It has a northwesterly strike and no cause is apparent for the anomaly.

5.0 GEOPHYSICS

5.1 VLF-EM SURVEY

The VLF-EM survey was carried out over all of the grid lines. The grid lines are all parallel to the steep slopes eliminating most if not all topographic bias. A large number of weak to strong VLF-EM conductors were delineated by the survey (figure 6). The conductors which appear to be associated with known geological, geochemical or geophysical features as well as the strongest conductors have been labelled "A" to "N" and are discussed below.

A number of the conductors appear to be caused by fences and have all been labelled "F". They are generally weak and occur near the valley bottom.

Conductor "A" is a moderate conductor extending across four grid lines. It appears to be the continuation of a westerly trending, steeply north dipping graphitic shear zone exposed in a trench at 109+60E & 81+15N.

Conductor "B" is a weak conductor extending across two grid lines. This conductor appears to be associated with a westerly trending shear zone exposed in a shaft located at 108+05E & 82+00N. Skarn material containing pyrite, chalcopyrite and sphalerite was found on the dump.

Conductor "C" is a weak conductor extending across four grid lines. The conductor occurs near the contact of the pyroxenite and cherts. Several old workings have been dug along the contact exposing highly oxidized shear zones sometimes containing massive pyrite.

Conductor "D" is a weak to moderate conductor extending across three grid lines. It occurs along strike with the Something Good shear zone located to the west and also coincides with the contact of the syenite and pyroxenite.

Conductor "E" is a weak conductor extending across five grid lines and occurring coincidentally with a magnetic low. This conductor appears to be delineating a strong structural feature associated with the Bullion Canyon.

Conductor "G" is a weak conductor extending across two grid lines and occurring coincidentally with a strong magnetic high. An old trench located on line 117E has exposed massive magnetite with carbonate alteration and gold values up to 1000 ppb. This conductor appears to be associated with the magnetite.

Conductor "H" is a weak to moderate conductor extending across three grid lines. It passes through Adit "F" and appears to be associated with a westerly trending, steeply dipping shear zone exposed in the adit. Some quartz vein material is exposed in the

adit with weak gold and copper values.

Conductor "I" is a weak to moderate conductor extending across three grid lines. It occurs near several old adits which have skarn material on their dumps. This conductor could be associated with skarn mineralization.

Conductor "J" is a very strong conductor extending across two or possibly three grid lines. No cause is evident for this conductor although it does occur along strike with the adits with skarn mineralization.

Conductor "K" is a weak conductor on one grid line. It is associated with an adit exposing a graphitic shear zone.

Conductor "L" is a moderate to strong conductor extending across three grid lines. No cause is evident for the conductor.

Conductor "M" is a weak conductor occurring across seven grid lines and appears to a structural feature.

Conductor "N" is a weak conductor extending across four grid lines and occurring coincidentally with a strong magnetic high. It appears to be caused by high concentrations of magnetite with the pyroxenite.

A large number of conductors have not been discussed here, and some deserve further investigation.

6.0 CONCLUSIONS AND RECOMMENDATIONS

The 1992 exploration program consisted of establishing or re-establishing grid lines, VLF-EM surveying, soil geochemical sampling, geological mapping and prospecting.

Geological mapping showed most of the western portion of the Bell claim to be underlain by pyroxenite and syenite of the Olalla Stock. This stock has intruded sedimentary and volcanic rocks of the Apex Mountain Group in the southwestern corner of the Bell claim.

The VLF-EM survey outlined a large number of weak to moderate conductors. Many of the conductors are associated with known geological, geochemical or geophysical features, but a large number have no apparent cause.

Two small gold soil geochemical anomalies were outlined by a combination of the 1988 and 1992 soil surveys. Anomaly A appears to be associated with down slope dispersion from the Something Good showing. Anomaly B occurs in an area covered by talus and no cause is apparent for this anomaly.

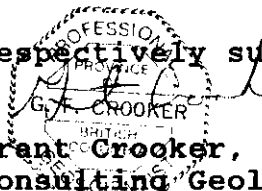
A number of old pits, trenches and other workings were mapped and sampled during this program. Most of the mineralization in the workings is associated with shear zones. Some of the shearing occurs along the contact of the stock while other shearing occurs 100 to 200 meters south of the contact. Pyrite and lesser chalcopyrite occur within the shear zones, generally over widths of 30 cm.

Copper and gold values were disappointing. A number of copper values were in the 3000 to 5000 ppm range with the best value 13995 ppm over 30 cm. The highest gold value was 810 ppb over 30 cm.

Recommendations are as follows:

- 1) The strongest VLF-EM conductors and those conductors which may be associated with known geological or geochemical features should be ground checked.
- 2) Geological mapping and prospecting should be completed on the eastern portion of the property, with particular emphasis on the area of the West Tunnel.

Respectively submitted,


Grant Crooker, B.Sc., P. Geo.,
Consulting Geologist

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CERTIFICATE OF QUALIFICATIONS

I, Grant F. Crooker, of Upper Bench Road, Keremeos, in the Province of British Columbia, hereby certify as follows:

1. That I graduated from the University of British Columbia in 1972 with a Bachelor of Science Degree in Geology.
2. That I have prospected and actively pursued geology prior to my graduation and have practised my profession since 1972.
3. That I am a member of the Canadian Institute of Mining and Metallurgy.
4. That I am a Fellow of the Geological Association of Canada.
5. That I am a Professional Geoscientist registered with The Association of Professional Engineers and Geoscientists of the Province of British Columbia.
6. That I am the owner of the Bell, Juniper, Bullion Fr and Juniper 1 to 6 mineral claims.

Dated this 7th day of April, 1992, at Keremeos, in the Province of British Columbia.


Grant Crooker, B.Sc., P.Geo.,
Consulting Geologist

Appendix I

CERTIFICATES OF ANALYSIS

COMP: GRANT CROOKER
 PROJ: BELL
 ATTN: GRANT CROOKER

MIN-EN LABS — ICP REPORT
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
 (604)980-5814 OR (604)988-4524

FILE NO: 2V-0140-RJ1
 DATE: 92/03/25
 * ROCK * (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	TI PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU-FIRE PPB
E004-001	.3	2730	24	6	160	1.0	1	84220	.1	11	9	47150	1270	1	20970	3290	1	140	12	510	23	4	256	1	34	21.4	160	2	1	4	53	2
E004-002	.1	6910	21	13	112	1.5	3	73280	.1	12	10	49270	3740	2	12940	3162	1	70	73	340	20	4	136	2	30	18.3	62	2	1	3	49	7
E004-003	.8	10080	14	5	177	1.1	4	96980	.1	16	53	29740	1690	16	10780	2697	1	30	22	1010	18	4	198	1	121	117.1	28	6	1	6	91	5
E004-004	.1	590	7	5	46	1.1	1	72990	.1	176	173	130150	1070	1	700	1679	2	540	24	140	22	2	75	1	273	30.9	84	1	1	4	103	7
E004-005	.5	3400	51	3	107	1.3	8	82850	.1	83	760	43520	1240	15	14350	8471	23	400	246	310	32	16	151	1	492	43.4	48	1	1	7	99	16
E004-006	7.3	1630	10	4	80	.7	62	84560	.1	41	174	79300	5130	1	1190	652	71	1130	1	300	1008	8	168	1	372	21.9	54	1	5	2	45	13
E004-007	.9	20020	8	4	8	.3	10	102990	.1	45	280	49410	230	7	7080	888	1	170	275	420	21	1	68	1	1692	72.0	18	4	1	9	171	12
E004-008	.1	8530	23	4	26	.7	6	123290	.1	13	142	80090	380	1	1980	2702	57	50	57	1720	27	4	130	1	858	115.5	24	4	9	18	143	9
E004-009	.1	17010	3	5	7	.8	3	98180	.1	12	40	118190	100	1	1840	3885	1	30	1	450	25	1	18	1	895	152.2	23	1	14	16	102	7
E004-010	15.3	5660	11	7	80	.8	15	72630	.1	47	13955	161210	3250	1	3500	1022	4	840	35	990	12	12	57	1	2560	208.1	87	1	7	13	74	810
E004-011	2.4	770	24	1	76	.4	6	217120	.1	21	3165	20390	190	1	9320	896	2	50	14	120	18	10	325	1	47	34.1	33	9	1	4	36	239
E004-012	5.1	1610	32	4	58	1.4	4	94650	.1	157	5428	98540	170	1	6490	3683	1	40	36	100	30	12	87	1	73	29.3	168	1	2	29	92	27
E004-013	.8	2370	10	3	44	.4	7	25540	.1	103	3761	21370	1030	1	1220	950	34	90	102	2910	9	6	31	3	48	56.1	80	1	1	9	173	10



MIN-EN LABORATORIES
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 TELEPHONE (604) 980-5814 OR (604) 988-4524
 FAX (604) 980-9621

SMITHERS LAB.:
 3176 TATLOW ROAD
 SMITHERS, B.C. CANADA V0J 2N0
 TELEPHONE (604) 847-3004
 FAX (604) 847-3005

Geochemical Analysis Certificate

2V-0140-SG1

Company: **GRANT CROOKER**
 Project: **BELL**
 Attn: **GRANT CROOKER**

Date: **MAR-25-92**
 Copy 1. GRANT CROOKER, KEREMEOS, B.C.

We hereby certify the following Geochemical Analysis of 30 SOIL samples submitted MAR-18-92 by GRANT CROOKER.

Sample Number	AU-FIRE PPB
106E 80+00N	16
106E 80+25N	23
106E 80+50N	22
106E 81+00N	6
106E 81+25N	7
106E 81+50N	7
106E 82+00N	11
106E 82+25N	8
106E 82+50N	92
106E 82+75N	18
106E 83+00N	10
106E 83+25N	34
106E 83+50N	6
106E 83+75N	6
107E 82+25N	2
107E 82+75N	8
107E 83+25N	7
107E 83+75N	1
107E 84+00N	24
107E 84+25N	7
107E 84+75N	9
107E 85+25N	15
107E 85+75N	60
107E 86+25N	330
107E 86+50N	14
107E 86+75N	12
107E 87+00N	14
108E 81+25N	10
108E 81+75N	21
108E 82+25N	11

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Geochemical Analysis Certificate

2V-0140-SG2

Company: **GRANT CROOKER**
 Project: **BELL**
 Attn: **GRANT CROOKER**

Date: **MAR-25-92**
 Copy 1. GRANT CROOKER, KEREMEOS, B.C.

We hereby certify the following Geochemical Analysis of 10 SOIL samples submitted MAR-18-92 by GRANT CROOKER.

Sample Number	AU-FIRE	PPB
108E 82+75N	6	
108E 83+25N	14	
108E 83+75N	4	
108E 84+25N	6	
109E 81+25N	32	
109E 81+75N	5	
109E 82+25N	6	
109E 82+75N	14	
109E 83+25N	10	
109E 83+75N	5	

Certified by

[Handwritten Signature]

MIN-EN LABORATORIES

Appendix II

ROCK SAMPLE DESCRIPTIONS

ROCK SAMPLE DESCRIPTIONS

Sample No.	Grid Coord.	Type	Description
01	10600E 8035N	grab	-up to 5mm calcite veinlets and segregations, iron oxides
02	10600E 8035N	grab	-1 to 8mm breccia frags of chert within ferruginous matrix, 5% calcite
03	10555E 8225N	float	-rounded chert breccia fragments within ferruginous calcite matrix
04	10630E 8320N	0.75m	-20% clay gouge, 25% crushed py, 55% oxidized limonite, on footwall
05	10620E 8345N	grab	-grab of limonite, oxidized material
06	10710E 8315N	grab	-limonite and fault gouge
07	10700E 8195N	float	-skarn, 50% crystalline calcite, 5% po trace cpy, py
08	10805E 8205N	grab	-dump, crystalline calcite, garnet, 5% py, trace cpy, > mal
09	10805E 8205N	grab	-dump, massive garnet skarn, little calcite or sulphides
10	10815E 8205N	grab	-30cm shear, oxidized, gouge, 1/2% cpy mal
11	10795E 8330N	grab	-45 to 110cm wide shear zone with calcite vein up to 45cm wide, ¼% diss py + cpy, tr bo?, grey sulphide
12	10810E 8310N	grab	-skarn? 1mm fractures with quartz, 1-5mm fractures with calcite, up to 20% py, tr mal
13	10910E 8115N	grab	-grey-white quartzite, rusty fractures with 1% py, ¼% cpy, mal, az

Appendix III

GEOPHYSICAL EQUIPMENT SPECIFICATIONS

GEONICS LIMITED
VLF EM 16

Source of Primary Field VLF transmitting stations

Transmitting Stations Used: Any desired station frequency can be supplied with the instrument in the form of plug-in tuning units. Two tuning units can be plugged in at one time. A switch selects either station.

Operating Frequency Range: About 15-25 Hz.

Parameters Measured: 1- The vertical in-phase component (tangent of the tilt angle of the polarization ellipsoid).
2- The vertical out-of-phase (quadrature) component (the short axis of the polarization ellipsoid compared to the long axis).

Method of Reading: In-phase from a mechanical inclinometer and quadrature from a calibrated dial. Nulling by audio tone

Scale Range: In-phase $\pm 150\%$; quadrature $\pm 40\%$

Readability: $\pm 1\%$

Operating Temperature Range: -40 to 50° C.

Operating Controls: ON-OFF switch, battery testing push button, station selector, switch, volume control, quadrature dial $\pm 40\%$, inclinometer $\pm 150\%$

Power Supply: 6 size AA alkaline cells ≈ 200 hrs.

Dimensions: 42 x 14 x 9 cm (16 x 5.5 x 3.5 in)

Weight: 1.6 kg. (3.5 lbs)

Instrument Supplied With: Monotonic speaker, carrying case, manual of operation, 3 station selector plug-in tuning units (additional frequencies are optional) set of batteries.

Manufacturer: Geonics Limited
1745 Meyerside Drive/Unit 8
Mississauga, Ontario
L5T 1C5

Appendix IV

VLF-EM DATA

Grant Crooker Data Listing Line & Station + = northing/easting
 Area: Juniper-Bell Claims - = southing/westing
 Grid: Bell File Name: junibell.xyz
 Date: March 1992, VLF-EM survey
 Instrument Type: Details
 Geonics EM-16 Facing northwesterly, Seattle
 Data Types #1 Corrected total field magnetic values
 #2 VLF-EM In-Phase Values, Seattle
 #3 VLF-EM Quadrature, Seattle

Line #	Station	# 1.	# 2.	# 3.	# 4.	# 5.	# 6.
line 10600							
10600	8000		19	-6			
10600	8025		27	-8			
10600	8050		41	-9			
10600	8075		54	-2			
10600	8100		54	2			
10600	8125		13	-4			
10600	8150		9	-3			
10600	8175		13	-1			
10600	8200		19	2			
10600	8225		24	1			
10600	8250		28	1			
10600	8275		31	6			
10600	8300		34	8			
10600	8325		31	11			
10600	8350		10	0			
10600	8375		6	4			
10600	8400		3	8			
10600	8425		3	8			
10600	8450		5	9			
10600	8475		6	8			
10600	8500		8	7			
10600	8525		8	4			
10600	8550		10	1			
10600	8575		11	3			
10600	8600		7	5			
10600	8625		-14	4			
10600	8650		-14	6			
10600	8675		-10	10			
10600	8700		-6	13			
10600	8725		0	16			
10600	8750		7	17			
10600	8775		3	10			
10600	8800		9	12			
10600	8825		14	12			
10600	8850		16	15			
10600	8875		21	13			
10600	8900		15	8			
10600	8925		12	9			
10600	8950		15	8			
10600	8975		18	7			
10600	9000		18	4			
10600	9025		21	6			

10600	9050	21	8
10600	9075	21	4
10600	9100	20	4
10600	9125	19	2
10600	9150	19	3
10600	9175	20	4
10600	9200	20	-1
10600	9225	23	-1
10600	9250	24	-2
10600	9275	27	0
10600	9300	30	2
line 10700			
10700	8000	29	-1
10700	8025	24	0
10700	8050	16	-5
10700	8075	27	-3
10700	8100	24	-4
10700	8125	8	-7
10700	8150	12	-2
10700	8175	23	4
10700	8200	20	3
10700	8225	14	3
10700	8250	15	2
10700	8275	21	3
10700	8300	18	3
10700	8325	13	0
10700	8350	5	2
10700	8375	-5	1
10700	8400	-5	6
10700	8425	-1	5
10700	8450	-7	2
10700	8475	0	5
10700	8500	5	8
10700	8525	4	6
10700	8550	10	6
10700	8575	15	2
10700	8600	21	6
10700	8625	24	5
10700	8650	28	12
10700	8675	-10	5
10700	8700	-5	8
10700	8725	-3	10
10700	8750	1	14
10700	8775	8	16
10700	8800	5	11
10700	8825	10	12
10700	8850	14	15
10700	8875	19	15
10700	8900	27	18
10700	8925	27	14
10700	8950	18	8
10700	8975	15	5
10700	9000	19	6
10700	9025	20	7

10700	9050	23	6
10700	9075	24	6
10700	9100	23	4
10700	9125	21	3
10700	9150	18	1
10700	9175	21	2
10700	9200	21	3
10700	9225	23	2
10700	9250	23	1
10700	9275	21	-2
10700	9300	27	2
10700	9325	28	7
10700	9350	30	0
10700	9375	33	1
10700	9400	36	-1
10700	9425	40	-1
10700	9450	41	1
10700	9475	56	3
10700	9500	55	5
10700	9525	59	3
10700	9550	46	0
10700	9575	28	-5
10700	9600	22	-6
10700	9625	23	-6
10700	9650	28	-3
10700	9675	34	-1
10700	9700	48	2
10700	9725	49	1
10700	9750	32	-4
10700	9775	23	-8
10700	9800	12	-9
line 10800			
10800	8000	29	4
10800	8025	35	11
10800	8050	30	8
10800	8075	28	7
10800	8100	24	11
10800	8125	11	-5
10800	8150	34	5
10800	8175	11	3
10800	8200	9	12
10800	8225	-7	10
10800	8250	5	14
10800	8275	11	12
10800	8300	16	10
10800	8325	15	7
10800	8350	9	3
10800	8375	10	8
10800	8400	7	9
10800	8425	0	4
10800	8450	-4	4
10800	8475	-6	3
10800	8500	-5	6
10800	8525	0	7

10800	8550	10	7
10800	8575	12	8
10800	8600	10	4
10800	8625	10	4
10800	8650	10	3
10800	8675	10	5
10800	8700	8	10
10800	8725	10	13
10800	8750	13	15
10800	8775	-7	19
10800	8800	4	18
10800	8825	2	19
10800	8850	-8	14
10800	8875	-7	14
10800	8900	-3	16
10800	8925	0	17
10800	8950	5	22
10800	8975	11	22
10800	9000	14	20
10800	9025	20	18
10800	9050	15	13
10800	9075	16	14
10800	9100	22	15
10800	9125	25	18
10800	9150	32	19
10800	9175	32	13
10800	9200	26	8
10800	9225	19	14
10800	9250	13	0
10800	9275	10	0
10800	9300	10	1
10800	9325	10	-2
10800	9350	12	1
10800	9375	14	3
10800	9400	16	3
10800	9425	19	5
10800	9450	20	7
10800	9475	25	6
10800	9500	28	8
10800	9525	26	4
10800	9550	25	1
10800	9575	27	2
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10800	9700	15	8
10800	9725	13	8
10800	9750	13	7
10800	9775	10	5
10800	9800	12	2
line 10900			
10900	8000	27	-10
10900	8025	35	-9

10900	8050	41	-7
10900	8075	40	-3
10900	8100	34	-3
10900	8125	17	0
10900	8150	11	4
10900	8175	10	6
10900	8200	4	5
10900	8225	0	8
10900	8250	-2	11
10900	8275	5	13
10900	8300	5	7
10900	8325	-3	3
10900	8350	-2	8
10900	8375	1	5
10900	8400	1	7
10900	8425	-6	3
10900	8450	-7	5
10900	8475	-3	6
10900	8500	1	5
10900	8525	8	6
10900	8550	11	0
10900	8575	24	2
10900	9200	24	19
10900	9225	28	20
10900	9250	25	14
10900	9275	19	9
10900	9300	8	1
10900	9325	5	3
10900	9350	0	6
10900	9375	2	6
10900	9400	0	2
10900	9425	1	2
10900	9450	6	6
10900	9475	12	12
10900	9500	22	14
10900	9525	25	11
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10900	9575	23	5
10900	9600	12	2
10900	9625	13	4
10900	9650	8	1
10900	9675	7	-1
10900	9700	-2	2
10900	9725	1	7
10900	9750	1	0
10900	9775	5	6
10900	9800	2	7
10900	9825	1	13
10900	9850	3	11
10900	9875	3	3
10900	9900	-3	3
10900	9925	-3	8
10900	9950	-9	5
10900	9975	-3	5

10900	10000	4	6
10900	10025	6	7
10900	10050	13	5
10900	10075	14	5
10900	10100	14	4
line 11000			
11000	8150	7	-3
11000	8175	4	5
11000	8200	-12	2
11000	8225	-21	6
11000	8250	-12	7
11000	8275	-2	7
11000	8300	-1	7
11000	8325	5	9
11000	8350	-17	0
11000	8375	-19	3
11000	8400	-21	6
11000	8425	-15	3
11000	8450	-6	4
11000	8475	-2	5
11000	8500	-10	2
11000	8525	-7	-4
11000	8550	8	-4
11000	8575	20	-3
11000	9400	-6	4
11000	9425	-6	9
11000	9450	-5	7
11000	9475	-1	4
11000	9500	2	6
11000	9525	6	9
11000	9550	2	3
11000	9575	0	0
11000	9600	1	3
11000	9625	0	7
11000	9650	-7	4
11000	9675	-13	6
11000	9700	-20	2
11000	9725	-15	0
11000	9750	-16	5
11000	9775	-12	7
11000	9800	-13	9
line 11100			
11100	9600	1	-5
11100	9625	1	-3
11100	9650	2	-2
11100	9675	1	-3
11100	9700	1	-1
11100	9725	1	-2
11100	9750	-1	0
11100	9775	-2	1
11100	9800	-2	1
11100	9825	-3	2
11100	9850	-1	4
11100	9875	2	2

11100	9900	-2	0
11100	9925	0	0
11100	9950	0	-1
11100	9975	0	0
11100	10000	-2	1
11100	10025	-3	1
11100	10050	-5	3
11100	10075	-1	5
11100	10100	-16	7
11100	10275	-2	-2
11100	10300	-1	-2
11100	10325	0	-1
11100	10350	0	-2
11100	10375	0	-2
11100	10400	1	0
11100	10425	-1	0
11100	10450	-4	1
11100	10475	-6	3
11100	10500	-8	5
11100	10525	-9	7
11100	10550	-14	7
11100	10575	-10	4
11100	10600	-2	3
11100	10625	3	1
11100	10650	8	0
11100	10675	-2	-7
11100	10700	11	-8
11100	10725	17	-9
11100	10750	21	-11
11100	10775	16	-12
11100	10800	21	-13
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11100	10875	20	-16
11100	10900	31	-9
11100	10925	26	-9
11100	10950	12	-9
11100	10975	5	-8
11100	11000	2	-6
line 11200			
11200	9600	1	-3
11200	9625	3	-3
11200	9650	3	-3
11200	9675	3	-3
11200	9700	2	-3
11200	9725	3	-3
11200	9750	1	-2
11200	9775	0	-1
11200	9800	-2	1
11200	9825	-2	0
11200	9850	-3	0
11200	9875	0	-2
11200	9900	-1	-1
11200	9925	-1	-2

11200	9950	-1	-2
11200	9975	-2	-1
11200	10000	-2	-1
11200	10025	-4	-1
11200	10050	-6	-1
11200	10075	-6	-1
11200	10100	-7	-1
11200	10125	-4	-2
11200	10150	-4	-2
11200	10175	-3	-1
11200	10200	-1	1
11200	10225	-1	2
11200	10250	1	3
11200	10275	2	0
11200	10300	-2	-1
11200	10325	-1	-1
11200	10350	0	0
11200	10375	0	1
11200	10400	-4	1
11200	10425	-5	3
11200	10450	-10	4
11200	10475	-12	5
11200	10500	-16	6
11200	10525	-22	5
11200	10550	-26	1
11200	10575	-16	-1
11200	10600	1	0
11200	10625	-2	-2
11200	10650	0	-2
11200	10675	2	-2
11200	10700	6	-3
line 11300			
11300	9600	-16	-23
11300	9625	-2	-5
11300	9650	-1	-5
11300	9675	0	-4
11300	9700	1	-3
11300	9725	1	-2
11300	9750	3	-2
11300	9775	1	-1
11300	9800	0	1
11300	9825	-4	3
11300	9850	-4	2
11300	9875	-3	-1
11300	9900	-3	0
11300	9925	-3	-2
11300	9950	-1	-2
11300	9975	-1	-1
11300	10000	-3	1
11300	10025	-4	1
11300	10050	-6	1
11300	10075	-6	-1
11300	10100	0	-7
11300	10125	11	4

11300	10150	-6	-2
11300	10175	0	0
11300	10200	1	1
11300	10225	2	2
11300	10250	0	0
11300	10275	0	2
11300	10300	1	0
11300	10325	-3	1
11300	10350	-3	2
11300	10375	-3	5
11300	10400	-9	6
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11300	10450	-18	6
11300	10475	-24	5
11300	10500	-25	6
11300	10525	-25	6
11300	10550	-16	8
11300	10575	1	6
11300	10600	1	2
line 11400			
11400	9600	-11	-16
11400	9625	-6	-2
11400	9650	-5	1
11400	9675	-4	2
11400	9700	2	-2
11400	9725	-4	0
11400	9750	-6	1
11400	9775	-6	-2
11400	9800	4	-3
11400	9825	3	-4
11400	9850	4	-5
11400	9875	1	-4
11400	9900	-2	-2
11400	9925	-9	-1
11400	9950	-1	-5
11400	9975	-4	2
11400	10000	-3	1
11400	10025	-6	2
11400	10050	-8	4
11400	10075	-6	7
11400	10100	-12	1
11400	10125	-13	2
11400	10150	-9	0
11400	10175	-3	-4
11400	10200	-15	-3
11400	10225	-10	-6
11400	10250	-19	0
11400	10275	-14	-5
11400	10300	-11	2
11400	10325	-7	5
11400	10350	-9	5
11400	10375	-9	6
11400	10400	-14	3
11400	10425	-25	4

11400	10450	-26	5
11400	10475	-24	8
11400	10500	-21	8
line 11450			
11450	8600	1	-1
11450	8625	2	-1
11450	8650	1	2
11450	8675	-5	8
11450	8700	-8	11
11450	8725	-5	10
11450	8750	13	-2
11450	8775	-5	-1
11450	8800	-4	0
11450	8825	-2	3
11450	8850	2	3
11450	8875	4	1
11450	8900	4	-2
11450	8925	4	-3
11450	8950	3	-4
11450	8975	4	-3
11450	9000	-1	-2
11450	9025	-9	-1
11450	9050	-14	-2
11450	9075	-22	-3
11450	9100	-14	-2
11450	9125	-10	0
11450	9150	-9	-3
11450	9175	-9	-5
11450	9200	-8	-3
11450	9225	-14	-5
11450	9250	-12	-2
11450	9275	-11	-3
11450	9300	-11	-5
11450	9325	-11	-5
11450	9350	-7	1
11450	9375	-1	3
11450	9400	-5	5
11450	9425	-1	-1
11450	9450	-2	1
11450	9475	-3	1
11450	9500	-6	0
11450	9525	-5	-1
11450	9550	-6	0
11450	9575	-6	-1
11450	9600	-7	-1
line 11500			
11500	9600	-10	-17
11500	9625	-9	-7
11500	9650	-4	-6
11500	9675	-5	-3
11500	9700	0	-7
11500	9725	-6	0
11500	9750	-6	1
11500	9775	-2	-8

11500	9800	1	-6
11500	9825	10	-8
11500	9850	-9	-8
11500	9875	-10	0
11500	9900	3	-9
11500	9925	5	-4
11500	9950	-8	-4
11500	9975	-11	-4
11500	10000	-4	-2
11500	10025	1	-1
11500	10050	-5	1
11500	10075	-4	4
11500	10100	-7	3
11500	10125	-8	1
11500	10150	-10	-2
11500	10175	0	-6
11500	10200	-7	-5
11500	10225	-16	-6
11500	10250	-22	-5
11500	10275	-21	-2
11500	10300	-20	-3
11500	10325	-19	-10
11500	10350	-13	-6
11500	10375	-16	-1
11500	10400	-12	0
11500	10425	-22	-1
11500	10450	-32	1
11500	10475	-20	6
11500	10500	-15	6
line 11550			
11550	8000	-40	-14
11550	8025	-24	-6
11550	8050	-17	-12
11550	8075	-10	-18
11550	8100	0	-23
11550	8125	9	-22
11550	8150	23	-24
11550	8175	24	-22
11550	8200	-8	-16
11550	8225	6	-16
11550	8250	-16	-10
11550	8275	-4	-12
11550	8300	-23	-11
11550	8325	-22	-1
11550	8350	-11	2
11550	8375	-4	-1
11550	8400	1	-3
11550	8425	5	-3
11550	8450	3	-5
11550	8475	-2	-4
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11550	8550	-10	2
11550	8575	-4	-1

11550	8600	4	-3
11550	8625	9	-2
11550	8650	2	0
11550	8675	-1	4
11550	8700	1	6
11550	8725	-2	4
11550	8750	-11	-11
11550	8775	0	1
11550	8800	5	-1
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11550	8850	0	4
11550	8875	5	2
11550	8900	7	4
11550	8925	7	5
11550	8950	-5	0
11550	8975	-9	1
11550	9000	-8	3
11550	9025	-5	4
11550	9050	-5	3
11550	9075	-2	2
11550	9100	1	0
11550	9125	3	-3
11550	9150	3	-6
11550	9175	4	-2
11550	9200	-1	1
11550	9225	-9	-2
11550	9250	-13	-1
11550	9275	-13	0
11550	9300	-10	3
11550	9325	-11	5
11550	9350	-11	1
11550	9375	-12	-3
11550	9400	-14	-2
11550	9425	-9	1
11550	9450	-10	-2
11550	9475	-10	-3
11550	9500	-11	-1
11550	9525	-14	-3
11550	9550	-13	0
11550	9575	-11	2
11550	9600	-14	2
line 11600			
11600	9600	-8	-7
11600	9625	-6	-1
11600	9650	2	-5
11600	9675	-1	-9
11600	9700	-18	-6
11600	9725	-21	-4
11600	9750	-16	-2
11600	9775	-8	-2
11600	9800	1	-10
11600	9825	8	-9
11600	9850	-19	-11
11600	9875	-15	-8

11600	9900	-10	-3
11600	9925	-12	-1
11600	9950	-12	4
11600	9975	-16	-4
11600	10000	-8	-4
11600	10025	-3	-2
11600	10050	0	1
11600	10075	-8	8
11600	10100	-2	5
11600	10125	0	7
11600	10150	-3	-1
11600	10175	-3	-2
11600	10200	-14	-2
11600	10225	-19	-1
11600	10250	-21	-4
11600	10275	-30	2
11600	10300	-28	0
11600	10325	-32	-3
11600	10350	-33	-6
11600	10375	-31	-5
11600	10400	-31	-3
11600	10425	-20	-8
11600	10450	-16	-5
11600	10475	-20	-1
11600	10500	-18	4
line 11650			
11650	8000	-25	-4
11650	8025	-23	3
11650	8050	-20	4
11650	8075	-20	-1
11650	8100	-20	-3
11650	8125	-15	-5
11650	8150	-9	-6
11650	8175	-3	-8
11650	8200	3	-6
11650	8225	-8	-7
11650	8250	-21	-6
11650	8275	-17	0
11650	8300	-20	1
11650	8325	-25	-6
11650	8350	-19	-4
11650	8375	-16	-2
11650	8400	-15	2
11650	8425	-5	2
11650	8450	-11	5
11650	8475	-9	2
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11650	8550	-7	-1
11650	8575	-7	1
11650	8600	-3	4
11650	8625	-3	2
11650	8650	-4	1
11650	8675	-9	4

11650	8700	-9	7
11650	8725	-5	6
11650	8750	-5	8
11650	8775	-4	1
11650	8800	-1	2
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11650	8850	0	5
11650	8875	-3	5
11650	8900	-3	5
11650	8925	-2	4
11650	8950	-4	3
11650	8975	-6	2
11650	9000	-6	3
11650	9025	-4	6
11650	9050	-8	2
11650	9075	-9	0
11650	9100	-10	1
11650	9125	-4	1
11650	9150	-1	2
11650	9175	-5	1
11650	9200	-2	-7
11650	9225	-7	2
11650	9250	11	4
11650	9275	-12	6
11650	9300	-21	2
11650	9325	-25	2
11650	9350	-25	3
11650	9375	-22	0
11650	9400	-14	4
11650	9425	-10	3
11650	9450	-3	2
11650	9475	-12	-2
11650	9500	-20	-4
11650	9525	-21	-8
11650	9550	-23	-8
11650	9575	-23	-9
line 11700			
11700	9625	5	4
11700	9650	14	2
11700	9675	8	-8
11700	9700	-20	-8
11700	9725	-21	-4
11700	9750	-15	-5
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11700	9825	-21	-14
11700	9850	-21	-14
11700	9875	-22	-10
11700	9900	-14	-7
11700	9925	-16	-6
11700	9950	-15	-13
11700	9975	-17	-11
11700	10000	-11	-6
11700	10025	-3	-3

11700	10050	-2	-3
11700	10075	2	-4
11700	10100	8	-6
11700	10125	1	-3
11700	10150	-7	7
11700	10175	-3	9
11700	10200	-11	9
11700	10225	-9	3
11700	10250	-12	0
11700	10275	-16	-5
11700	10300	-18	-7
11700	10325	-25	-11
11700	10350	-34	-12
11700	10375	-31	-12
11700	10400	-32	-16
11700	10425	-27	-21
11700	10450	-16	-21
11700	10475	-8	-12
11700	10500	-5	-4
line 11750			
11750	8000	-19	8
11750	8025	-16	10
11750	8050	-11	14
11750	8075	-8	14
11750	8100	-5	11
11750	8125	-7	3
11750	8150	-5	0
11750	8175	7	3
11750	8200	13	-9
11750	8225	31	-4
11750	8250	1	-6
11750	8275	-35	-5
11750	8300	-29	4
11750	8325	-26	-5
11750	8350	-20	-6
11750	8375	-16	-4
11750	8400	-8	2
11750	8425	-15	6
11750	8450	-15	-2
11750	8475	-18	-4
11750	8500	-4	-1
11750	8525	-9	0
11750	8550	-18	-1
11750	8575	-15	0
11750	8600	-11	2
11750	8625	-10	-1
11750	8650	-13	-1
11750	8675	-11	1
11750	8700	-8	4
11750	8725	-9	2
11750	8750	-13	2
11750	8775	-14	6
11750	8800	-13	6
11750	8825	-8	2

11750	8850	-4	6
11750	8875	-2	4
11750	8900	-1	4
11750	8925	-3	4
11750	8950	-8	5
11750	8975	-8	2
11750	9000	-8	4
11750	9025	-5	2
11750	9050	-1	4
11750	9075	3	3
11750	9100	-1	2
11750	9125	-2	1
11750	9150	3	-2
11750	9175	-1	-4
11750	9200	-6	-12
11750	9225	-12	3
11750	9250	-13	5
11750	9275	-14	8
11750	9300	-21	-2
11750	9325	-22	-2
11750	9350	-23	-2
11750	9375	-15	2
11750	9400	-14	0
11750	9425	-13	0
11750	9450	-12	1
11750	9475	-10	3
11750	9500	-18	-1
11750	9525	-26	-7
11750	9550	-27	-6
11750	9575	-29	-9
line 12000			
12000	8000	5	3
12000	8025	9	7
12000	8050	-6	-2
12000	8075	-12	-3
12000	8100	-7	1
12000	8125	-5	3
12000	8150	-3	3
12000	8175	-5	5
12000	8200	7	-3
12000	8225	9	-3
12000	8250	-5	7
12000	8275	-11	3
12000	8300	-20	-3
12000	8325	-21	-4
12000	8350	-21	-7
12000	8375	-20	-8
12000	8400	-21	10
12000	8425	-18	-13
12000	8450	-13	-17
12000	8475	-6	-18
12000	8500	9	-15
12000	8525	-8	-10
12000	8550	-23	2

12000	8575	-24	3
12000	8600	-18	6
line 12100			
12100	8000	-2	-11
12100	8025	2	-10
12100	8050	8	-6
12100	8075	9	-2
12100	8100	4	0
12100	8125	-4	1
12100	8150	-4	3
12100	8175	-5	4
12100	8200	-8	6
12100	8225	-8	7
12100	8250	-12	4
12100	8275	-20	2
12100	8300	-22	-2
12100	8325	-18	-2
12100	8350	-17	-6
12100	8375	-16	-7
12100	8400	-19	-14
12100	8425	-29	-32
12100	8450	-6	-26
12100	8475	-1	-21
12100	8500	-2	-11
12100	8525	-25	8
12100	8550	-24	6
12100	8575	-21	3
12100	8600	-19	2
line 12200			
12200	8000	-1	0
12200	8025	-1	0
12200	8050	1	-1
12200	8075	4	0
12200	8100	4	0
12200	8125	3	4
12200	8150	-2	2
12200	8175	-2	3
12200	8200	3	10
12200	8225	10	10
12200	8250	3	4
12200	8275	-9	-2
12200	8300	-15	-5
12200	8325	-9	-5
12200	8350	9	0
12200	8375	-20	-10
12200	8400	-19	-12
12200	8425	-15	-8
12200	8450	-9	-7
12200	8475	-30	-7
12200	8500	-29	-5
12200	8525	-9	9
12200	8550	-11	10
line 12300			
12300	8000	10	13

12300	8025	12	16
12300	8050	18	20
12300	8075	21	18
12300	8100	20	14
12300	8125	23	12
12300	8150	25	13
12300	8175	19	9
12300	8200	10	4
12300	8225	0	0
12300	8250	0	-1
12300	8275	10	-1
12300	8300	15	-2
12300	8325	30	-6
12300	8350	48	-2
12300	8375	-41	0
12300	8400	-39	2
12300	8425	-12	0
12300	8450	-15	-6
12300	8475	-12	-4
12300	8500	-9	-3
12300	8525	0	-5
12300	8550	3	3
line 12500			
12500	8000	2	6
12500	8025	9	9
12500	8050	2	4
12500	8075	11	6
12500	8100	12	8
12500	8125	-7	9
12500	8150	-7	19
12500	8175	-1	22
12500	8200	5	21
12500	8225	5	16
12500	8250	7	11
12500	8275	9	9
12500	8300	11	7
12500	8325	17	6
12500	8350	14	2
12500	8375	6	-8
12500	8400	-6	-9
12500	8425	-17	-9
12500	8450	-12	-8
12500	8475	0	-7
12500	8500	10	-8
12500	8525	13	-16
12500	8550	22	-13
12500	8575	-17	-7
12500	8600	-23	1
12500	8625	-11	4
12500	8650	-1	8
12500	8675	3	9
12500	8700	-2	5
12500	8725	-8	4
12500	8750	-10	1

12500	8775	-12	3
12500	8800	-12	3
12500	8825	-10	4
12500	8850	-23	4
12500	8875	-25	5
12500	8900	-25	2
12500	8925	-31	-4
12500	8950	-34	-5
12500	8975	-35	-6
12500	9000	-40	-7
12500	9025	-38	-4
12500	9050	-34	-2
12500	9075	-30	1
12500	9100	-19	-3
12500	9125	-17	-3
12500	9150	-16	0
12500	9175	-16	-3
12500	9200	-6	-6
12500	9225	-9	-9
12500	9250	-6	-5
12500	9275	-9	-1
12500	9300	-18	4

Appendix V

COST STATEMENT

COST STATEMENT

SALARIES

- Grant Crooker, Geologist
Nov. 11, 1991, Feb. 3, 4, 19, 25, 26,
March 1-4, 6-14, 1992
19 days @ \$ 400.00/day \$ 7,600.00

MEALS AND ACCOMMODATION

- Grant Crooker - 14 days @ \$ 60.00/day 840.00

TRANSPORTATION

- Vehicle Rental (Ford 3/4 ton 4x4)
Nov 11, 1991, Feb. 3, 4, 19, 25, 26,
March 1-4, 6, 9, 13, 14, 1992
14 days @ \$ 60.00/day 840.00
- Gasoline 55.00

EQUIPMENT RENTAL

- VLF-EM - Geonics EM-16
Feb 3, 4, 25, 26, March 4, 6, 9, 14,
1992
8 days @ \$ 25.00/day 200.00

SUPPLIES

- Hipchain thread, flagging etc. 100.00

FREIGHT

25.00

ANALYSIS

- 40 soil samples, Au @ \$ 6.42/sample 256.80
- 13 rock samples, Au, 31 element ICP,
@ \$ 15.52/sample 201.76

DRAUGHTING

300.00

PREPARATION OF REPORT

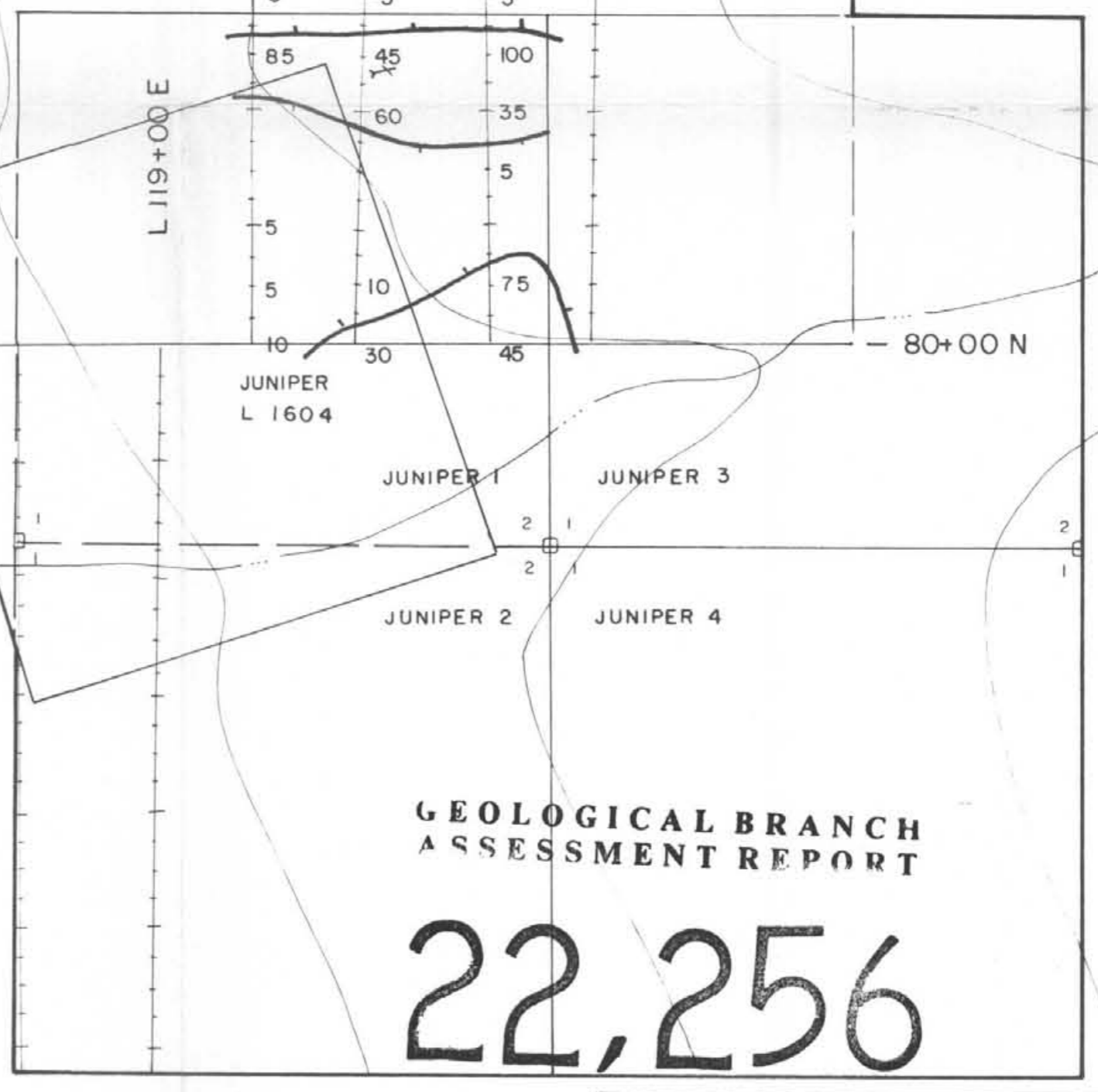
- Secretarial, reproduction, telephone,
office overhead, etc. 600.00

TOTAL \$ 11,018.56



LEGEND

- CLAIM POST - LCP LEGAL CORNER POST
1 INITIAL POST
2 FINAL POST
- ┆ GRID STATION -1988, RE-ESTABLISHED 1992, 1992 GRID
- ┆ CREEK
- == ROAD
- 2000- CONTOUR INTERVAL AT 500'
- ┆ ADIT, CAVED ADIT
- ┆ 35 Au IN PPB, 35- 1992 SAMPLE
- Au > 15 PPB ANOMALOUS
- NS NO SAMPLE
- ┆ TRENCH
- SHAFT



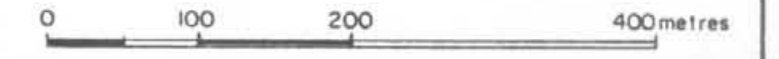
**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

22,256

GRANT F. CROOKER

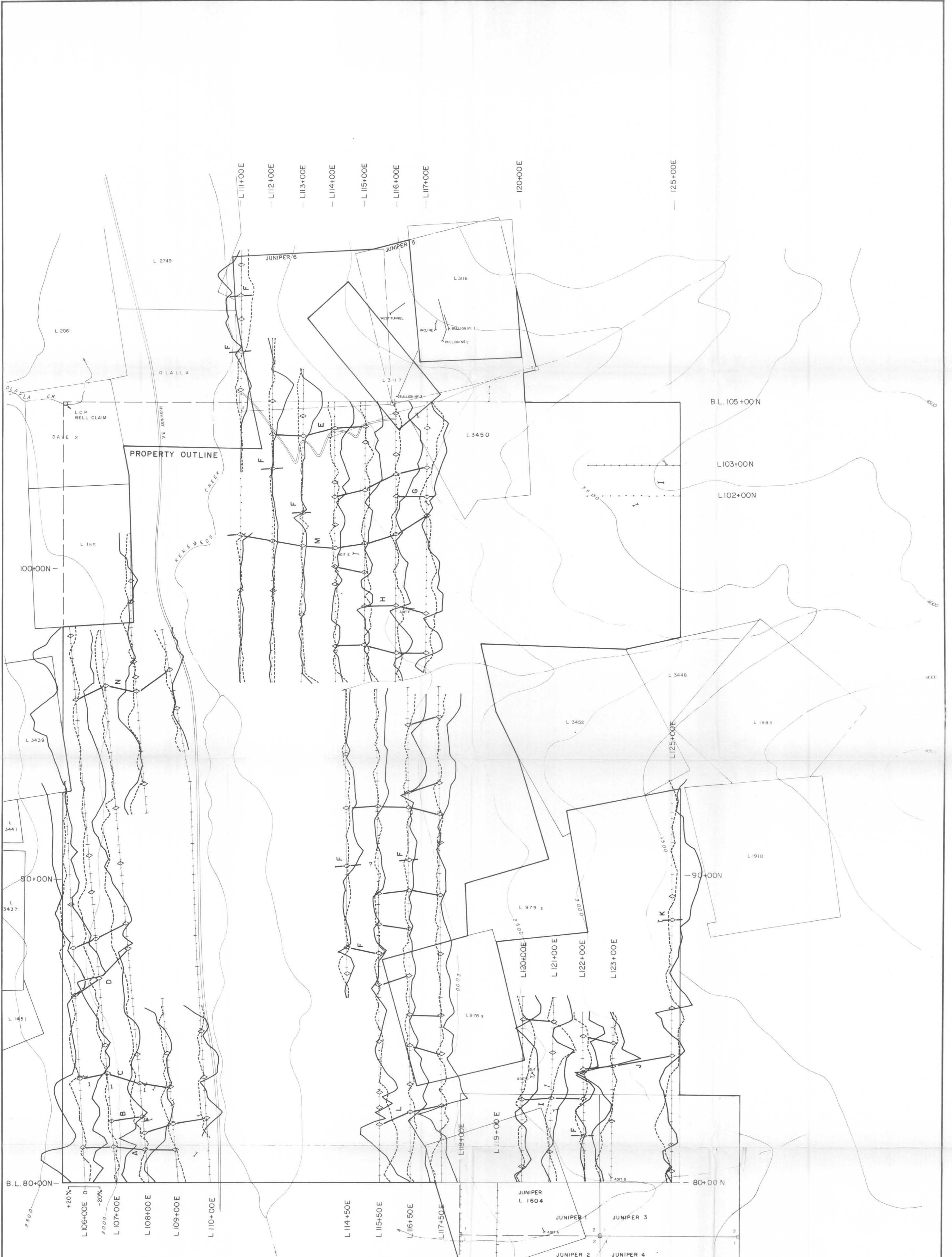
**JUNIPER-BELL PROPERTY
SOIL GEOCHEMISTRY
GOLD**

N.T.S. 82E-4W, 5W OSOYOOS M.D., B.C.



SCALE 1:5000 DATE: MARCH 1992
DRAWN BY: G. CROOKER FIGURE N^o. 5

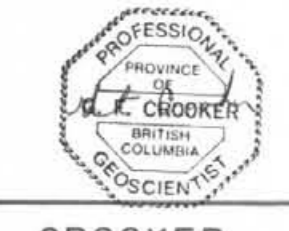




- LEGEND**
- CLAIM POST - LCP LEGAL CORNER POST
 - 1 INITIAL POST
 - 2 FINAL POST
 - GRID STATION
 - CREEK
 - ROAD
 - 2000- CONTOUR INTERVAL AT 500'
 - ADIT, SHAFT
 - TRENCH
 - 1988 GRID, RE-ESTABLISHED 1992 & 1992 GRID
 - 1990 "
 - NLK, SEATTLE, WASHINGTON
 - 24.8 KHZ
 - ANOMALOUS INFLECTION (IN-PHASE)
 - IN-PHASE
 - QUADRATURE
 - VLF-EM CONDUCTOR
- 1cm = 20% PROFILE SCALE

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

22,256



GRANT F. CROOKER	
JUNIPER-BELL PROPERTY	
VLF-EM PROFILES (SEATTLE)	
NT.S. 82E-4W, 5W	050Y00S M.D., B.C.
0 100 200 400 metres	
SCALE 1:5000	DATE: MARCH 1992
DRAWN BY: G.F. Crooker	FIGURE N ^o : 6

