# ARIS SUMMARY SHEET

istrict Geologist, Victoria  Off Confidential: 90.05.23

SSESSMENT REPORT 18755  MINING DIVISION: Victoria

ROPERTY: SB
OCATION: LAT 48 57 00 LONG 123 59 00
UTM 10 5422144 428002
NTS 092B13W

AMP: 024 Sicker Belt

LAIM(S): SB
PERATOR(S): Vancouver Venture
UTHOR(S): Ven Huizen, G.L.
EPORT YEAR: 1989, 18 Pages
OMMODITIES
EARCHED FOR: Gold,Silver,Copper
EYWORDS: Mississippian-Pennsylvanian,Sicker Group,Sediments,Argillite
Quartz,Pyrite,Graphite

ORK
ONE: Geochemical
ROCK 7 sample(s) ;ME
SOIL 68 sample(s) ;ME
Map(s) - 1; Scale(s) - 1:10 000

# PRELIMINARY GEOCHEMICAL REPORT ON THE SB MINING CLAIM

NTS 92B/13W
48 deg 57' N 123 deg 59' W
VICTORIA MINING DIVISION



OPERATOR:
VANCOUVER VENTURE CORP.
#508- 736 Granville Street
Vancouver, British Columbia V6Z 1G3



by
GREG L. VEN HUIZEN, P.Eng.
3889 Hudson Street
Vancouver, British Columbia V6H 3A9
20 May 1989

*Ven Huizen Mining Exploration*

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SUMMARY

At the request of Brij Sharan, Pres. of Vancouver Venture Corp. the author conducted a preliminary geochemical program on the SB mining claim. The purpose of the visit was to fulfill assessment requirements and to gain sufficient information to make recommendations for further work on the property.

The examination took place from 2 to 4 May during which the author was accompanied by J. Ruza an experienced prospector familiar with the area. During the visit 100 soil samples, 1 silt sample, 4 rock outcrop samples and 3 rock float samples were taken. Seven rock, 1 silt and 66 soil samples were submitted to Acme Analytical Laboratories and analyzed by ICP methods for 30 elements with the rock samples being also analyzed by AA for gold.

Results of the analyses show gold mineralization in quartz fragments found as stream float (F1- 1160 ppb Au and F2- 184200 ppb Au) and in rock outcrop samples R3 (9780 ppb Au) and to a lesser extent R4 (430 ppb Au). These samples demonstrate a potential for high grade gold mineralization in quartz veins.

Sample F3 was of a ferrous breccia containing a high magnetite content with anomalous gold and copper content. Rock outcrops shows this area to be near to granodiorite/ sedimentary contacts which demonstrates a possibility of skarn type mineraliztion. Soils near to this location show higher than background Cu values in the 125 to 190 ppm range.

Due to these results, a "grass roots" program consisting of line cutting, geological mapping, VLF-EM and magnetometer surveys is recommended.

PROPERTY, LOCATION AND ACCESS

The property consists of 20 units located in the Victoria Mining Division. The author observed the L.C.P., an I.D. post and sufficient flagged line to believe that the property is staked in accordance with the mining laws of British Columbia. The record number is #2238 with an anniversary date of 30 October. The record holder is Brij Sharan with whom Vancouver Venture Corp. has an agreement the details which are beyond the scope of this report. After filing this report the claims will be valid until 30 October 1990.

The property is situated at elevations of 600 to 1200 meters above sea level at 48 deg 57' N latitude and 123 deg 59' W longitude. The topography is moderate to steep and the terrain is heavily wooded with second growth timber. Small streams drain the property from the northwest and south into an easterly flowing creek which forms the headwaters of Chipman Creek which turns south and after around 15 km drains into the Chemainus River. The creeks are adequate to provide water for exploration purposes.

The property is accessed from the town of Lady Smith by driving north on Hwy 1 for 1.5 km and turning left on Christie Road for 3.4 km to a gate for a private industrial road which during fire season is kept locked. The industrial road is followed for 16.5 km keeping left at junctions at 13 and 14.6 km and turning right at 16.5 km. After another 1.6 km is found a powerline with a dirt road going north and south. Logging roads go towards the west from this road which lead onto the property


PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
G. L. VanHuizen

| VANCOUVER VENTURE CORP. | | |
|---|---|---|
| SB CLAIM<br>**LOCATION MAP** | | |
| GREG L. VEN HUIZEN, P.ENG. | | |
| N.T.S. 92 B / 13 | SCALE: AS SHOWN | FIG. |
| DATE: MAY 89 | DRAWN: GVH | 1 |

but which are in disrepair and have to be walked about 1 km to the east claim boundary.

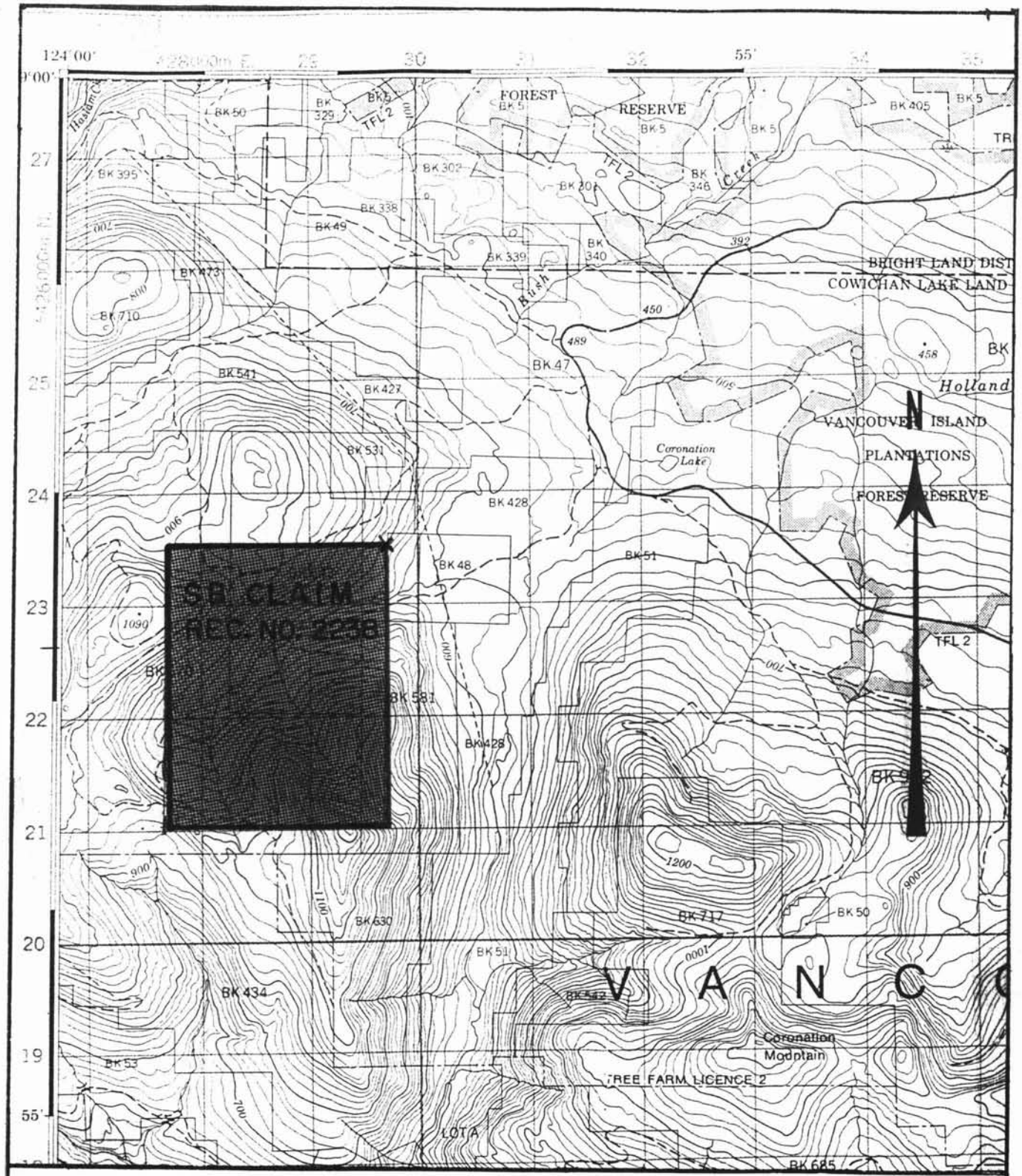
## HISTORY

An examination of the "Min File" at the GSC library show no history on the property. The nearest reference of work is about 25 km southeast where numerous crown grants are found. The Tyee and its successor the Twin Jay mines were located in this area (Mt. Sicker) and exploited massive sulfides containing primarily chalcopyrite and sphalerite with minor galena, gold, silver and barite between the dates of 1898- 1907 and 1944- 1945. Gold bearing quartz veins have been reported in the 92B/13 map area but to date are not considered of economic importance. About 35 km southeast are found skarn deposits containing magnetite, pyrrhotite and/or chalcopyrite which are found in Sicker group sediments. The Sicker group of rocks are generally well known to host gold bearing quartz veins, skarn deposits and massive sulfides. The SB claims are found in Sicker group sediments.

## DESCRIPTION OF WORK PERFORMED ON THE PROPERTY

During the visit 100 soil samples, 1 silt sample, 4 rock outcrop grab samples and 3 rock float samples were taken. The author was accompanied by J. Ruza, an experienced prospector familiar with the area, during the visit which took place from 2- 4 May 1989.

The soil samples were taken from undisturbed "B" horizon soil at depths of 10 to 20 cm as exposed by road cuts located as shown on Figure 3. Sample intervals were every 25 m on the





0 500 1000 2000 3000 metres

| VANCOUVER VENTURE CORP. | | |
|---|---|---|
| SB CLAIM<br>**CLAIM MAP** | | |
| GREG L. VEN HUIZEN, P.ENG. | | |
| N.T.S. 92 B / 13W | SCALE: 1:50,000 | FIG. |
| DATE: MAY 1989 | DRAWN: G.V.H. | 2 |

southern road (D1 to D48) and 10 m (D49 to D100) on the northern road. Only every third sample from the northern group was submitted which leaves an interval of 30 meters as shown on Figure 3. The soils were submitted to Acme Analytical Laboratories and analyzed by ICP methods for 30 elements. Only Cu values are plotted. One silt sample was taken from the stream in which was found quartz float with high gold, silver and copper values. No signicant values were found in the silt (S1)

Four rock outcrop samples (R1- R4) were taken of an outcrop of pyritic graphitic argillite containing some silicification. Selected samples were taken from spots seperated by about 4 meters. Three float samples were taken (F1- F3). F1 and F2 were found in a small stream as shown on figure 3 and F3 was found north of the north road and appears to be from subcrop. All rock samples were analyzed by ICP methods for 30 elements and by AA for gold.

Copies of the analytical results are found in the appendix with detection limits and procedures being on the top page.

## GEOLOGY AND DISCUSSION OF RESULTS

No geological mapping was performed on the claims. The geology of the claims area as found on CGS map 1553A, scale 1:100,000 consists of Sicker group sedimentary rock including argillite, grewacke, chert and diabase sills of Pennsylvanian and Mississippian age. A contact with island intrusions is mapped as occurring about 1 km east of the property. Observations by the author of rock exposures on the northern

part of the property show that granodiorite intrusions occur within around 300 meters of the property. It is significant to note that skarn deposits are found in this stratigraphic unit 35 km southeast of the property.

Rock samples R1, R2, R3 and R4 were grap samples taken from outcrops of graphitic argillite containing pyrite dessiminations and some silicification. R3 and R4 showed signicant gold content and it is possible that the stream found there is an expression of north-south shearing which may have associated gold mineralization.

Float samples F1 and F2 were of quartz float found in a small stream as shown on figure 3. The float was competent and angular and contained pyrite, chalcopyrite and galena. Sample F2 shows high grade gold mineralization (184200 ppb) sample F1 has anomalous gold mineralization (1160 ppb). Both samples have significant silver and copper values. The samples indicate that a high grade gold bearing quartz vein is located upstream. Efforts should be made by prospecting to locate the source of the float.

Float sample F3 was taken on the north road (see Fig. 3) and contains iron, gold and copper anomalies. The float was a breccia cemented with magnetic iron oxides. The float sample was subangular and very soft indicating a local origin and probably represents subcrop. The iron content was 20% with Au values of 230 ppb and Cu values of 449 ppm. The high magnetite content, Cu and Au anomalies in the float and higher than background Cu values found in soil samples (120 to 186 ppm) and the presence of granodiorite intrusions contacting

sedimentary rocks of the Sicker group suggest that a skarn deposit may be found in this vicinity.

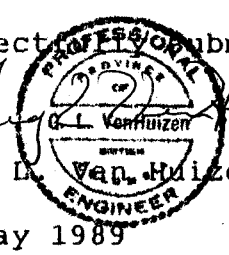
Copper values of soil sample results were plotted as they demonstrate elevated values near to float sample F3. Inspection of other base metal values show them to be insignicant. Silver values are found to be under .5 ppm and Au was not analyzed for.

## CONCLUSIONS AND RECOMMENDATIONS

Rock samples and a low Cu soil anomaly suggest that two types of mineralization may occur on the property including gold bearing quartz veins and skarn type mineralization. A high magnetite content in the skarn float sample (F3) shows that magnetometer and VLF-EM surveys may be an effective method for defining the source of the float. The quartz vein may be more difficult to locate and will require careful prospecting along the creeks where the float and outcrop samples were found.

It is the recommendation that a Phase I program in the amount of $26,400 be undertaken consisting of line cutting, VLF-EM and magnetometer surveys, geological mapping and prospecting and soil sampling be undertaken. A Phase II program including follow-up programs and trenching is recommended contingent on favorable results.

Respectfully submitted,




Greg D. Van Huizen, P.Eng.

20 May 1989

COST ESTIMATE

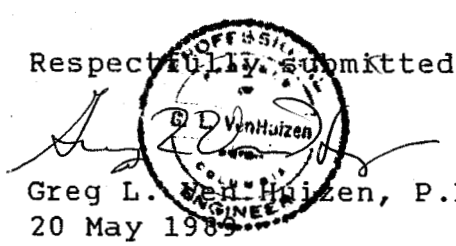
Phase I

| | |
|---|---|
| Line cutting 20 km @ $250 | $ 5000 |
| VLF-EM surveys 20 km @ $150 | 3000 |
| Magnetometer surveys 20 km @ $150 | 3000 |
| Geological mapping and prospecting | 4000 |
| Soil sampling 250 @ $20 (inclusive) | 5000 |
| Report | 2000 |
| Meals, accommodation and transportation | 2000 |
| TOTAL | 24000 |
| Contingency @ 10% | 2400 |
| TOTAL PHASE I | 26400 |

Phase II

| | |
|---|---|
| Line cutting 30 km @ $250 | $ 7500 |
| VLF-EM surveys 30 km @ $150 | 4500 |
| Magnetometer surveys 30 km @ $150 | 4500 |
| Geological mapping and prospecting | 5000 |
| Soil sampling 500 @ $20 (inclusive) | 10000 |
| Trenching and road repair | 10000 |
| Report | 2500 |
| Meals, accommodation and transportation | 3000 |
| TOTAL | 47000 |
| Contingency @ 10% | 4700 |
| TOTAL PHASE II | 51700 |

Respectfully submitted,




Greg L. Ven Huizen, P.Eng.
20 May 1989

ITEMIZED COST STATEMENT

Wages 2- 4 May 1989

| | |
|---|---|
| G.L. Ven Huizen, P.Eng. | $600 |
| J. Ruza | 600 |

Meals and accommodations 2-4 May 1989

| | |
|---|---|
| J. Ruza and G.L. Ven Huizen, P.Eng. | 230 |

Transportation

| | |
|---|---|
| Gas | 73 |
| Mileage (475 @ .20) | 95 |
| Ferry | 53 |

| | |
|---|---|
| Field supplies, maps and aerial photo blowups | 114 |
| Analyses (Acme Analytical Lab.) | 584 |
| Report | 600 |
| TOTAL | $2949 |

CERTIFICATE OF QUALIFICATIONS

I, Greg L. Ven Huizen of 3889 Hudson Street, Vancouver, British Columbia hereby certify that:

1. I am registered in the Association of Professional Engineers of the Province of British Columbia, No. 14584.

2. I am a graduate of the University of Minnesota with a Bachelor of Geo-Engineering Degree (Exploration Option) with Distinction, March 1979.

3. I have been practicing my profession since graduation.

4. The information contained in this report is the result of work carried out under my supervision and the references cited

5. I own no direct, indirect and do not expect to receive any interest in the SB mining claim or any shares in Vancouver Venture Corp.

6. I consent to the use of this report titled, "Preliminary Geochemical Report on the SB Mining Claim", dated 20 May 1989 in a prospectus, statement of facts and for assessment purposes but due to limited work done on the property do not feel that the property qualifies as a "property of merit" at this time.

Greg L. Ven Huizen, P.Eng.

20 May 1989

# APPENDIX

## ANALYSES

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

# GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: P1-2 SOIL P3 ROCK

DATE RECEIVED: MAY 5 1989 DATE REPORT MAILED: May 11/89 SIGNED BY. C. Leong ..D.TOYE. C.LEONG. J.WANG; CERTIFIED B.C. ASSAYERS

VANCOUVER VENTURE CORP. File # 89-0999 Page 1

| SAMPLE# | Mo PPM | Cu PPM | Pb PPM | Zn PPM | Ag PPM | Ni PPM | Co PPM | Mn PPM | Fe % | As PPM | U PPM | Au PPM | Th PPM | Sr PPM | Cd PPM | Sb PPM | Bi PPM | V PPM | Ca % | P % | La PPM | Cr PPM | Mg % | Ba PPM | Ti % | B PPM | Al % | Na % | K % | W PPM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D 1 | 1 | 65 | 4 | 84 | .1 | 79 | 30 | 735 | 5.47 | 18 | 5 | ND | 1 | 22 | 1 | 2 | 2 | 84 | .30 | .080 | 7 | 90 | 1.78 | 81 | .23 | 3 | 3.25 | .01 | .09 | 1 |
| D 2 | 1 | 81 | 3 | 86 | .1 | 76 | 30 | 822 | 5.81 | 27 | 5 | ND | 1 | 19 | 1 | 2 | 2 | 99 | .24 | .085 | 6 | 77 | 1.86 | 124 | .24 | 2 | 4.21 | .01 | .11 | 1 |
| D 3 | 1 | 68 | 20 | 82 | .2 | 74 | 24 | 649 | 5.58 | 12 | 5 | ND | 1 | 20 | 1 | 2 | 2 | 94 | .28 | .079 | 6 | 88 | 1.75 | 76 | .23 | 3 | 3.61 | .01 | .09 | 1 |
| D 4 | 1 | 57 | 4 | 66 | .1 | 72 | 22 | 498 | 6.55 | 11 | 5 | ND | 1 | 14 | 1 | 3 | 2 | 114 | .20 | .075 | 6 | 101 | 1.53 | 53 | .23 | 3 | 4.23 | .01 | .06 | 1 |
| D 5 | 1 | 58 | 12 | 90 | .1 | 40 | 15 | 362 | 5.24 | 7 | 5 | ND | 1 | 11 | 1 | 2 | 2 | 111 | .17 | .048 | 5 | 54 | .97 | 80 | .18 | 2 | 4.21 | .01 | .04 | 1 |
| D 6 | 1 | 72 | 6 | 86 | .1 | 69 | 23 | 565 | 5.60 | 10 | 5 | ND | 1 | 21 | 1 | 2 | 2 | 106 | .31 | .059 | 6 | 89 | 1.56 | 125 | .20 | 2 | 3.76 | .02 | .08 | 1 |
| D 7 | 1 | 73 | 4 | 77 | .1 | 69 | 31 | 1117 | 6.23 | 10 | 5 | ND | 1 | 24 | 1 | 2 | 2 | 103 | .35 | .058 | 7 | 87 | 1.43 | 167 | .21 | 2 | 3.34 | .02 | .08 | 1 |
| D 8 | 1 | 74 | 7 | 85 | .1 | 67 | 28 | 773 | 6.42 | 5 | 5 | ND | 1 | 23 | 1 | 2 | 2 | 109 | .25 | .049 | 6 | 78 | 1.27 | 103 | .20 | 3 | 4.56 | .02 | .06 | 1 |
| D 9 | 2 | 79 | 8 | 88 | .1 | 81 | 27 | 613 | 7.13 | 11 | 5 | ND | 1 | 16 | 1 | 2 | 2 | 98 | .22 | .050 | 6 | 101 | 1.51 | 84 | .19 | 2 | 4.77 | .01 | .06 | 1 |
| D 10 | 1 | 76 | 5 | 113 | .1 | 47 | 24 | 654 | 6.37 | 9 | 5 | ND | 1 | 19 | 1 | 2 | 2 | 108 | .31 | .050 | 5 | 51 | 1.17 | 103 | .15 | 2 | 5.10 | .02 | .06 | 1 |
| D 11 | 1 | 60 | 7 | 100 | .2 | 40 | 20 | 470 | 6.73 | 19 | 5 | ND | 1 | 10 | 1 | 2 | 3 | 125 | .15 | .044 | 14 | 59 | .82 | 80 | .18 | 2 | 5.87 | .01 | .03 | 1 |
| D 12 | 1 | 48 | 2 | 101 | .1 | 23 | 22 | 637 | 7.02 | 7 | 5 | ND | 1 | 8 | 1 | 2 | 2 | 159 | .22 | .029 | 5 | 40 | 2.34 | 71 | .25 | 2 | 6.86 | .01 | .05 | 2 |
| D 13 | 1 | 55 | 2 | 84 | .3 | 26 | 36 | 1501 | 4.80 | 5 | 5 | ND | 1 | 11 | 2 | 2 | 2 | 97 | .22 | .052 | 10 | 42 | .98 | 72 | .15 | 2 | 5.92 | .01 | .05 | 2 |
| D 14 | 1 | 60 | 3 | 90 | .2 | 24 | 21 | 719 | 5.69 | 7 | 5 | ND | 1 | 9 | 1 | 2 | 2 | 112 | .20 | .050 | 8 | 39 | 1.54 | 85 | .18 | 2 | 5.57 | .01 | .09 | 1 |
| D 15 | 1 | 80 | 7 | 99 | .2 | 31 | 34 | 1554 | 5.50 | 8 | 5 | ND | 1 | 10 | 1 | 2 | 2 | 121 | .17 | .060 | 8 | 34 | 1.12 | 106 | .18 | 2 | 6.01 | .01 | .05 | 1 |
| D 16 | 2 | 95 | 6 | 113 | .1 | 39 | 22 | 620 | 5.97 | 4 | 5 | ND | 2 | 10 | 1 | 2 | 3 | 126 | .13 | .094 | 7 | 33 | 1.26 | 139 | .17 | 2 | 7.79 | .01 | .07 | 3 |
| D 17 | 1 | 50 | 4 | 66 | .1 | 14 | 11 | 317 | 5.10 | 7 | 5 | ND | 1 | 9 | 1 | 2 | 2 | 123 | .13 | .067 | 4 | 26 | .50 | 67 | .18 | 2 | 5.05 | .01 | .03 | 1 |
| D 18 | 2 | 84 | 12 | 90 | .7 | 24 | 15 | 478 | 5.62 | 2 | 5 | ND | 2 | 9 | 1 | 2 | 2 | 116 | .12 | .152 | 7 | 26 | 1.17 | 112 | .17 | 2 | 7.12 | .01 | .08 | 1 |
| D 19 | 1 | 85 | 2 | 75 | .1 | 24 | 16 | 687 | 4.74 | 6 | 5 | ND | 1 | 12 | 1 | 2 | 2 | 116 | .17 | .062 | 6 | 24 | 1.03 | 124 | .19 | 2 | 4.93 | .01 | .08 | 1 |
| D 20 | 1 | 1010 | 5 | 76 | .2 | 22 | 16 | 570 | 4.24 | 5 | 5 | ND | 1 | 15 | 1 | 2 | 2 | 104 | .26 | .066 | 6 | 23 | 1.20 | 138 | .17 | 2 | 3.84 | .01 | .14 | 1 |
| D 21 | 1 | 63 | 9 | 72 | .1 | 23 | 14 | 577 | 3.77 | 3 | 5 | ND | 1 | 13 | 1 | 2 | 2 | 103 | .21 | .047 | 6 | 25 | .73 | 108 | .16 | 2 | 3.09 | .01 | .06 | 1 |
| D 22 | 1 | 79 | 4 | 88 | .2 | 30 | 17 | 498 | 4.32 | 6 | 5 | ND | 1 | 18 | 1 | 2 | 2 | 107 | .28 | .041 | 6 | 31 | .99 | 184 | .18 | 4 | 4.15 | .02 | .07 | 1 |
| D 23 | 1 | 34 | 2 | 58 | .1 | 12 | 7 | 197 | 3.71 | 8 | 5 | ND | 1 | 8 | 1 | 2 | 3 | 112 | .12 | .073 | 4 | 20 | .31 | 62 | .17 | 2 | 2.61 | .01 | .03 | 1 |
| D 23A | 1 | 83 | 8 | 62 | .1 | 25 | 15 | 463 | 3.68 | 3 | 5 | ND | 1 | 17 | 1 | 2 | 2 | 97 | .28 | .051 | 7 | 27 | .88 | 210 | .17 | 2 | 3.78 | .02 | .09 | 2 |
| D 24 | 1 | 67 | 7 | 83 | .1 | 25 | 16 | 410 | 4.36 | 7 | 5 | ND | 1 | 14 | 1 | 2 | 2 | 116 | .18 | .032 | 5 | 25 | .82 | 143 | .21 | 2 | 4.19 | .01 | .05 | 1 |
| D 25 | 1 | 71 | 6 | 72 | .1 | 21 | 14 | 432 | 4.30 | 7 | 5 | ND | 1 | 14 | 1 | 2 | 2 | 110 | .19 | .062 | 6 | 27 | .78 | 123 | .19 | 2 | 4.23 | .01 | .06 | 1 |
| D 26 | 1 | 83 | 6 | 74 | .2 | 27 | 13 | 333 | 3.50 | 7 | 5 | ND | 2 | 12 | 1 | 2 | 2 | 86 | .17 | .064 | 5 | 28 | .75 | 136 | .18 | 2 | 4.51 | .01 | .05 | 1 |
| D 27 | 1 | 79 | 3 | 69 | .1 | 24 | 16 | 548 | 3.97 | 5 | 5 | ND | 1 | 13 | 1 | 2 | 2 | 91 | .19 | .068 | 5 | 30 | .94 | 163 | .17 | 2 | 3.64 | .01 | .10 | 1 |
| D 28 | 1 | 93 | 10 | 92 | .1 | 25 | 18 | 751 | 4.87 | 8 | 5 | ND | 1 | 15 | 1 | 2 | 2 | 116 | .20 | .076 | 5 | 25 | 1.14 | 183 | .18 | 2 | 4.87 | .01 | .13 | 1 |
| D 29 | 1 | 95 | 5 | 92 | .1 | 22 | 21 | 863 | 4.89 | 9 | 5 | ND | 2 | 12 | 1 | 2 | 2 | 111 | .15 | .068 | 6 | 19 | 1.30 | 145 | .18 | 4 | 4.20 | .01 | .14 | 1 |
| D 30 | 1 | 93 | 15 | 101 | .2 | 21 | 16 | 668 | 5.22 | 6 | 5 | ND | 2 | 11 | 1 | 2 | 2 | 117 | .12 | .107 | 5 | 22 | 1.18 | 137 | .19 | 2 | 6.00 | .01 | .10 | 1 |
| D 31 | 1 | 71 | 8 | 79 | .1 | 19 | 12 | 417 | 4.05 | 6 | 5 | ND | 2 | 12 | 1 | 2 | 3 | 108 | .16 | .070 | 5 | 23 | .88 | 144 | .17 | 2 | 4.24 | .01 | .07 | 1 |
| D 32 | 1 | 67 | 3 | 81 | .1 | 19 | 13 | 452 | 4.65 | 6 | 5 | ND | 1 | 10 | 1 | 2 | 2 | 116 | .12 | .074 | 4 | 23 | .84 | 113 | .18 | 2 | 4.51 | .01 | .06 | 1 |
| D 33 | 1 | 88 | 7 | 96 | .2 | 20 | 15 | 621 | 4.79 | 8 | 5 | ND | 2 | 11 | 1 | 2 | 2 | 113 | .14 | .080 | 6 | 21 | .92 | 130 | .19 | 2 | 5.31 | .01 | .09 | 1 |
| D 34 | 1 | 78 | 3 | 85 | .1 | 29 | 13 | 435 | 3.52 | 6 | 5 | ND | 2 | 13 | 1 | 2 | 2 | 89 | .20 | .044 | 7 | 25 | .77 | 201 | .17 | 2 | 3.89 | .01 | .06 | 1 |
| D 35 | 1 | 58 | 6 | 63 | .1 | 14 | 12 | 410 | 4.13 | 7 | 5 | ND | 1 | 8 | 1 | 2 | 2 | 112 | .12 | .087 | 5 | 19 | .59 | 98 | .18 | 2 | 3.94 | .01 | .05 | 1 |
| STD C | 17 | 62 | 39 | 132 | 7.1 | 73 | 31 | 940 | 3.76 | 45 | 24 | 6 | 37 | 49 | 18 | 14 | 22 | 57 | .45 | .086 | 37 | 54 | .84 | 172 | .06 | 32 | 1.78 | .06 | .13 | 12 |

| SAMPLE# | Mo PPM | Cu PPM | Pb PPM | Zn PPM | Ag PPM | Ni PPM | Co PPM | Mn PPM | Fe % | As PPM | U PPM | Au PPM | Th PPM | Sr PPM | Cd PPM | Sb PPM | Bi PPM | V PPM | Ca % | P % | La PPM | Cr PPM | Mg % | Ba PPM | Ti % | B PPM | Al % | Na % | K % | W PPM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D 36 | 1 | 85 | 12 | 96 | .2 | 14 | 13 | 536 | 5.52 | 2 | 5 | ND | 3 | 10 | 1 | 2 | 2 | 121 | .09 | .140 | 4 | 16 | .97 | 154 | .19 | 2 | 7.86 | .01 | .07 | 1 |
| D 37 | 1 | 94 | 11 | 76 | .1 | 17 | 15 | 741 | 4.25 | 5 | 5 | ND | 1 | 13 | 1 | 2 | 2 | 99 | .19 | .069 | 5 | 15 | .90 | 151 | .16 | 2 | 4.70 | .01 | .12 | 1 |
| D 38 | 1 | 58 | 11 | 79 | .4 | 13 | 10 | 315 | 4.33 | 2 | 5 | ND | 2 | 8 | 1 | 4 | 2 | 110 | .10 | .046 | 5 | 19 | .55 | 87 | .17 | 2 | 4.77 | .01 | .05 | 1 |
| D 39 | 1 | 71 | 7 | 72 | .1 | 18 | 12 | 447 | 4.28 | 2 | 5 | ND | 2 | 9 | 1 | 2 | 3 | 100 | .14 | .074 | 5 | 20 | .67 | 113 | .15 | 2 | 5.42 | .01 | .06 | 1 |
| D 40 | 1 | 66 | 4 | 71 | .1 | 18 | 12 | 398 | 3.38 | 2 | 5 | ND | 1 | 11 | 1 | 2 | 2 | 83 | .15 | .046 | 5 | 17 | .78 | 131 | .15 | 2 | 3.61 | .01 | .07 | 1 |
| D 41 | 1 | 60 | 10 | 75 | .2 | 14 | 13 | 543 | 3.06 | 3 | 5 | ND | 2 | 10 | 1 | 3 | 2 | 65 | .17 | .046 | 5 | 14 | .75 | 164 | .10 | 3 | 2.54 | .01 | .08 | 1 |
| D 42 | 1 | 64 | 9 | 77 | .1 | 16 | 10 | 377 | 4.71 | 2 | 5 | ND | 2 | 8 | 1 | 2 | 2 | 122 | .11 | .041 | 3 | 20 | .65 | 110 | .17 | 2 | 6.12 | .01 | .05 | 1 |
| D 43 | 1 | 54 | 6 | 59 | .2 | 12 | 11 | 255 | 3.92 | 2 | 5 | ND | 2 | 9 | 1 | 2 | 2 | 109 | .13 | .060 | 5 | 16 | .55 | 102 | .16 | 2 | 4.86 | .01 | .05 | 1 |
| D 44 | 1 | 42 | 6 | 50 | .4 | 9 | 8 | 203 | 4.31 | 2 | 5 | ND | 3 | 6 | 1 | 2 | 2 | 118 | .08 | .045 | 4 | 17 | .43 | 62 | .17 | 2 | 3.26 | .01 | .03 | 1 |
| D 45 | 1 | 27 | 7 | 30 | .3 | 4 | 6 | 152 | 3.65 | 2 | 5 | ND | 3 | 6 | 1 | 2 | 2 | 141 | .07 | .031 | 4 | 11 | .30 | 37 | .18 | 2 | 2.39 | .01 | .02 | 1 |
| D 46 | 1 | 67 | 6 | 73 | .1 | 20 | 12 | 364 | 4.24 | 2 | 5 | ND | 2 | 9 | 1 | 2 | 2 | 106 | .12 | .043 | 4 | 19 | .81 | 153 | .17 | 2 | 4.69 | .01 | .07 | 1 |
| D 47 | 2 | 62 | 4 | 56 | .1 | 21 | 10 | 248 | 3.46 | 2 | 5 | ND | 2 | 10 | 1 | 2 | 2 | 82 | .15 | .037 | 7 | 22 | .60 | 139 | .15 | 2 | 3.99 | .01 | .05 | 1 |
| D 48 | 1 | 66 | 5 | 59 | .1 | 19 | 13 | 364 | 3.18 | 2 | 5 | ND | 2 | 15 | 1 | 2 | 2 | 81 | .19 | .038 | 7 | 23 | .63 | 260 | .14 | 2 | 3.20 | .01 | .07 | 1 |
| D 49 | 1 | 76 | 8 | 56 | .2 | 15 | 9 | 397 | 4.06 | 2 | 5 | ND | 3 | 7 | 1 | 2 | 3 | 116 | .09 | .062 | 6 | 18 | .42 | 113 | .14 | 3 | 3.69 | .01 | .05 | 1 |
| D 52 | 1 | 87 | 9 | 64 | .1 | 17 | 11 | 628 | 3.70 | 2 | 5 | ND | 2 | 15 | 1 | 2 | 4 | 108 | .20 | .059 | 3 | 15 | .49 | 108 | .13 | 2 | 3.10 | .01 | .07 | 1 |
| D 55 | 1 | 62 | 6 | 54 | .1 | 18 | 8 | 250 | 3.55 | 2 | 5 | ND | 2 | 11 | 1 | 2 | 2 | 113 | .11 | .046 | 5 | 17 | .44 | 149 | .15 | 2 | 3.43 | .01 | .05 | 1 |
| D 58 | 1 | 120 | 4 | 76 | .2 | 12 | 10 | 309 | 3.43 | 2 | 5 | ND | 3 | 14 | 1 | 2 | 3 | 95 | .18 | .038 | 5 | 11 | .58 | 272 | .14 | 2 | 3.77 | .01 | .06 | 1 |
| D 61 | 1 | 122 | 7 | 80 | .1 | 20 | 16 | 520 | 3.93 | 2 | 5 | ND | 2 | 23 | 1 | 2 | 2 | 110 | .23 | .061 | 7 | 15 | .71 | 297 | .16 | 2 | 4.05 | .01 | .14 | 1 |
| D 64 | 2 | 107 | 10 | 89 | .2 | 18 | 14 | 592 | 4.09 | 2 | 5 | ND | 2 | 24 | 1 | 2 | 4 | 112 | .23 | .071 | 6 | 15 | .59 | 202 | .17 | 3 | 4.10 | .01 | .08 | 1 |
| D 67 | 2 | 78 | 10 | 77 | .3 | 15 | 11 | 431 | 5.61 | 2 | 5 | ND | 3 | 14 | 1 | 2 | 4 | 110 | .12 | .274 | 4 | 20 | .34 | 68 | .16 | 2 | 7.56 | .01 | .03 | 1 |
| D 70 | 4 | 186 | 5 | 78 | .2 | 22 | 17 | 636 | 5.15 | 2 | 5 | ND | 3 | 24 | 1 | 2 | 2 | 134 | .22 | .059 | 5 | 15 | .68 | 170 | .24 | 2 | 7.15 | .01 | .05 | 1 |
| D 73 | 1 | 150 | 10 | 92 | .3 | 18 | 19 | 657 | 4.69 | 2 | 5 | ND | 2 | 28 | 1 | 2 | 2 | 118 | .30 | .080 | 6 | 13 | .78 | 316 | .19 | 6 | 5.61 | .02 | .22 | 1 |
| D 76 | 1 | 132 | 12 | 94 | .1 | 20 | 15 | 517 | 4.21 | 2 | 5 | ND | 2 | 49 | 1 | 2 | 2 | 94 | .31 | .065 | 5 | 13 | .57 | 310 | .20 | 2 | 6.70 | .01 | .04 | 1 |
| D 79 | 1 | 41 | 5 | 64 | .3 | 17 | 8 | 348 | 4.19 | 3 | 5 | ND | 2 | 12 | 1 | 2 | 3 | 104 | .11 | .034 | 7 | 19 | .31 | 63 | .16 | 2 | 3.31 | .01 | .02 | 1 |
| D 82 | 1 | 48 | 6 | 94 | .1 | 53 | 19 | 612 | 4.26 | 2 | 5 | ND | 2 | 20 | 1 | 2 | 4 | 78 | .13 | .046 | 4 | 13 | .97 | 196 | .21 | 3 | 5.87 | .01 | .19 | 1 |
| D 85 | 1 | 65 | 7 | 87 | .2 | 31 | 11 | 369 | 3.86 | 3 | 5 | ND | 2 | 8 | 1 | 2 | 2 | 98 | .10 | .047 | 7 | 24 | .45 | 147 | .16 | 2 | 4.13 | .01 | .05 | 1 |
| D 88 | 1 | 94 | 6 | 67 | .2 | 24 | 13 | 362 | 3.80 | 2 | 5 | ND | 3 | 21 | 1 | 2 | 5 | 107 | .20 | .075 | 7 | 19 | .61 | 281 | .18 | 2 | 5.17 | .01 | .06 | 1 |
| D 91 | 1 | 100 | 5 | 84 | .1 | 27 | 13 | 274 | 4.16 | 2 | 5 | ND | 1 | 14 | 1 | 2 | 2 | 110 | .19 | .062 | 5 | 26 | .64 | 122 | .22 | 2 | 4.58 | .01 | .04 | 1 |
| D 94 | 1 | 67 | 8 | 67 | .3 | 11 | 10 | 211 | 3.63 | 2 | 5 | ND | 2 | 11 | 1 | 2 | 2 | 115 | .17 | .035 | 5 | 12 | .33 | 58 | .16 | 2 | 2.90 | .01 | .02 | 1 |
| D 97 | 1 | 96 | 7 | 67 | .1 | 31 | 11 | 304 | 3.51 | 2 | 5 | ND | 2 | 10 | 1 | 2 | 2 | 99 | .13 | .062 | 6 | 24 | .64 | 193 | .18 | 3 | 5.11 | .01 | .05 | 1 |
| D 100 | 1 | 59 | 11 | 59 | .2 | 18 | 9 | 288 | 3.48 | 2 | 5 | ND | 3 | 13 | 1 | 2 | 2 | 95 | .12 | .074 | 6 | 22 | .43 | 108 | .17 | 3 | 3.58 | .01 | .04 | 1 |
| S 1 | 1 | 68 | 6 | 98 | .1 | 17 | 18 | 755 | 3.86 | 6 | 5 | ND | 2 | 23 | 1 | 2 | 2 | 102 | .37 | .050 | 5 | 18 | .91 | 283 | .14 | 2 | 4.09 | .02 | .13 | 1 |
| STD C | 18 | 61 | 37 | 132 | 7.1 | 72 | 31 | 946 | 3.69 | 38 | 20 | 6 | 36 | 50 | 18 | 17 | 22 | 57 | .44 | .085 | 37 | 54 | .81 | 174 | .06 | 31 | 1.81 | .06 | .14 | 11 |

| SAMPLE# | Mo PPM | Cu PPM | Pb PPM | Zn PPM | Ag PPM | Ni PPM | Co PPM | Mn PPM | Fe % | As PPM | U PPM | Au PPM | Th PPM | Sr PPM | Cd PPM | Sb PPM | Bi PPM | V PPM | Ca % | P % | La PPM | Cr PPM | Mg % | Ba PPM | Ti % | B PPM | Al % | Na % | K % | W PPM | Au* PPB |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F 1 | 9 | 20048✓ | 143 | 2501 | 421.3✓ | 22 | 28 | 28 | 8.34 | 4972 | 5 | ND | 4 | 1 | 46 | 13141✓ | 103 | 2 | .01 | .017 | 2 | 4 | .02 | 9 | .01 | 10 | .22 | .01 | .20 | 1 | 1160 |
| F 2 | 2 | 10536✓ | 17 | 71 | 494.4✓ | 6 | 35 | 648 | 5.14 | 24 | 5 | 181 | 3 | 15 | 2 | 59 | 2 | 14 | .48 | .056 | 5 | 3 | .73 | 43 | .04 | 18 | 1.21 | .01 | .27 | 1 | 184200 |
| F 3 | 2 | 449 | 8 | 46 | 3.2 | 6 | 16 | 244 | 20.02 | 25 | 5 | ND | 3 | 15 | 1 | 37 | 12 | 87 | .12 | .059 | 4 | 5 | .29 | 22 | .12 | 17 | 1.55 | .02 | .02 | 2 | 230 |

✓ - ASSAY REQUIRED FOR CORRECT RESULT -

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

# GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: ROCK AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: MAY 9 1989 DATE REPORT MAILED: May 11/89 SIGNED BY. C. Leong ..D.TOYE. C.LEONG. J.WANG: CERTIFIED B.C. ASSAYERS

VANCOUVER VENTURE CORP. File # 89-1032

| SAMPLE# | Mo PPM | Cu PPM | Pb PPM | Zn PPM | Ag PPM | Ni PPM | Co PPM | Mn PPM | Fe % | As PPM | U PPM | Au PPM | Th PPM | Sr PPM | Cd PPM | Sb PPM | Bi PPM | V PPM | Ca % | P % | La PPM | Cr PPM | Mg % | Ba PPM | Ti % | B PPM | Al % | Na % | K % | W PPM | Au* PPB |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R-1 | 9 | 72 | 4 | 55 | .1 | 9 | 10 | 323 | 7.11 | 3 | 5 | ND | 1 | 19 | 1 | 2 | 2 | 43 | .39 | .029 | 3 | 12 | .72 | 37 | .14 | 2 | 2.32 | .02 | .06 | 1 | 2 |
| R-2 | 13 | 58 | 6 | 49 | .1 | 6 | 9 | 357 | 6.90 | 4 | 5 | ND | 1 | 15 | 1 | 2 | 2 | 53 | .26 | .028 | 2 | 11 | .90 | 47 | .24 | 2 | 2.38 | .02 | .04 | 1 | 1 |
| R-3 | 4 | 316 | 10 | 96 | 31.5✓ | 12 | 19 | 497 | 5.20 | 10 | 5 | 4 | 3 | 23 | 1 | 9 | 3 | 50 | .26 | .027 | 2 | 13 | 1.15 | 28 | .05 | 12 | 2.41 | .05 | .12 | 1 | 9760 |
| R-4 | 3 | 51 | 3 | 46 | 1.3 | 6 | 8 | 219 | 3.18 | 2 | 5 | ND | 1 | 12 | 1 | 2 | 2 | 26 | .19 | .019 | 2 | 9 | .56 | 31 | .08 | 2 | 1.22 | .03 | .07 | 2 | 430 |
| STD C | 18 | 63 | 41 | 133 | 6.7 | 73 | 31 | 1030 | 4.16 | 40 | 22 | 7 | 38 | 53 | 18 | 15 | 22 | 61 | .52 | .091 | 40 | 54 | .90 | 182 | .07 | 35 | 1.93 | .06 | .14 | 13 | - |

✓ - ASSAY REQUIRED FOR CORRECT RESULT -

L.C.P. SB REC. # 2238

D100

D49

F3 - Au 230 ppb
Ag 3.2 ppm
Cu 449 ppm

D48

S1

F1 - Au 1160 ppb
Ag 421.3 ppm
Cu 20048 ppm

F2 - Au 184200 ppb
Ag 494.4 ppm
Cu 10536 ppm

48° 57' N

D1

R1 - Au 2 ppb
Ag .1 ppm
Cu 72 ppm

R2 - Au 1 ppb
Ag .1 ppm
Cu 58 ppm

R4 - Au 430 ppb
Ag 1.3 ppm
Cu 51 ppm

R3 - Au 9780 ppb
Ag 31.5 ppm
Cu 316 ppm

123° 59' W

N



PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
G. L. VenHuizen

VANCOUVER VENTURE CORP. FIGURE 3

S B MINERAL CLAIM
VICTORIA MNG. DIV. NTS 92B 13W MAY 1989
(From aerial photo BC 84027 No. 185)

Scale 1:10000 0 50 100 500m

LEGEND
0-100 100-125 125-150 150-200 ppm Cu
SOIL SAMP.
SILT "
ROCK FLOAT SAMP. O
ROCK O/C "
STREAM
ROAD

G.L. VENHUIZEN P.ENG.