

SIWASH SILVER MINERAL PROPERTY

SOIL AND ROCK
GEOCHEMICAL REPORT

for

TOWER HILL MINES LTD.

December 27, 1988

Latitude 49° 47', Longitude 120° 20'

Prepared by:

Pollmer Consulting Ltd.,
RR#2 Site 40
Gabriola Island, B.C
VOR 1X0

18211

ARIS SUMMARY SHEET

District Geologist, Kamloops

Off Confidential: 90.01.04

ASSESSMENT REPORT 18211

MINING DIVISION: Similkameen

PROPERTY: Siwash Silver

LOCATION: LAT 49 47 00 LONG 120 20 00

UTM 10 5517734 691964

NTS 092H16W

CLAIM(S): B & D, UM 1-4, Jen 1-2, Ed, Ed 2, Pedersen, Fissure Maiden

OPERATOR(S): Tower Hill Mines

AUTHOR(S): Pollmer, A.

REPORT YEAR: 1988, 27 Pages

COMMODITIES

SEARCHED FOR: Gold, Silver

GEOLOGICAL

SUMMARY: Rock geochemical, soil.

KEYWORDS: Pennask Batholith, Granite, Quartz-eye porphyry, Feldspar porphyry
Diatreme, Alteration, Veins

WORK

DONE: Geochemical

ROCK 53 sample(s) ; CU, PB, ZN, AG, AU

SOIL 460 sample(s) ; CU, PB, ZN, AG, AU

Map(s) - 5; Scale(s) - 1:2500

RELATED

REPORTS: 07992, 08926, 09424, 09936

MINFILE: 092HNE001, 092HNE029, 092HNE032

LOG NO: 0106 RD.
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GEOLOGICAL BRANCH
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1.0 PROJECT DESCRIPTION

1.1 INTRODUCTION

Recent rock sampling, done by Tower Hill Mine's personnel, produced some gold values in showings recorded to have only base metal and silver mineralization. To further investigate the property potential, the most anomalous portion of the property was re-sampled using a close-spaced (50mx50m) soil and rock geochemical survey.

The sampling program was designed and supervised by Pollmer Consulting Ltd. and conducted by Lone Trail Exploration Ltd. A 21 kilometre grid was sampled at 50m picket stations during October 28th and November 8th, 1988.

Much of the previous exploration data was utilized in the final interpretation of soil anomalies. The major change in appraising this property is all previous work was aimed at locating a large low-grade porphyry type deposit. Current assessment is being focused on the economic potential of mineralized veining known to occur peripheral to the porphyry intrusive.

1.2 Location and Access

The Siwash Silver property is located in the Similkameen Mining Division. The property is centered on Siwash Creek approximately 30.8 kilometers north, northeast of Princeton or 40.2 kilometers due east of Peachland. Geographically, the property coordinates are 49° 47' Latitude, 120° 20' Longitude.

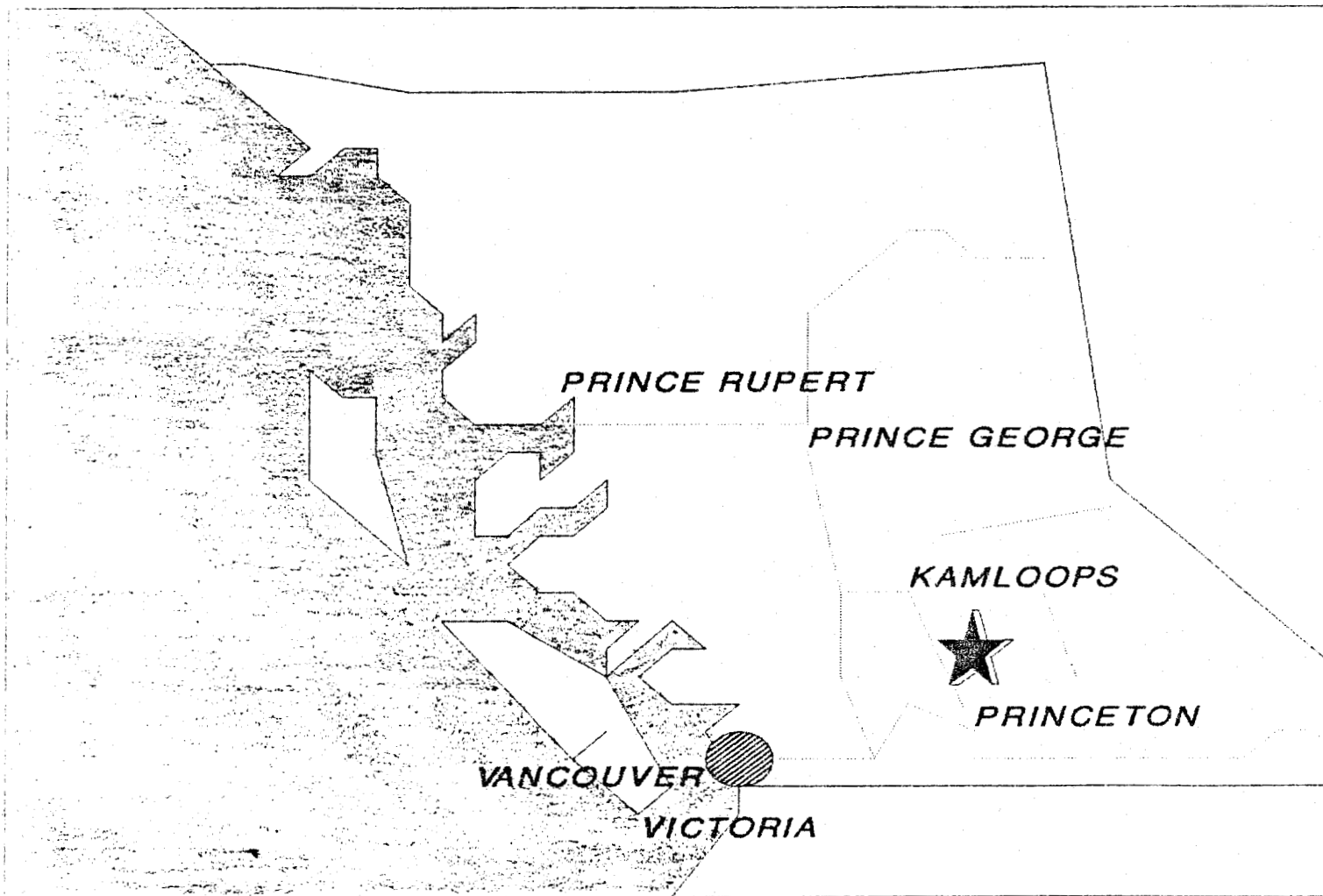
The property can now be accessed by three separate routes all of which are considered as good, all-weather gravel roads;

Route #1, known as the Dillard Lake logging road, branches east from highway #5, approximately 42 kilometers north of Princeton and terminates at the property at kilometre 39.

Route #2 accesses the property from the south with the junction just north of Osprey Lake on the Summerland - Princeton road.

Route #3 is from Peachland via the Peachland Main logging road, to the Trout Creek logging road, which access the property at 60 km.

SIWASH SILVER PROPERTY



1.3 Claim Inventory

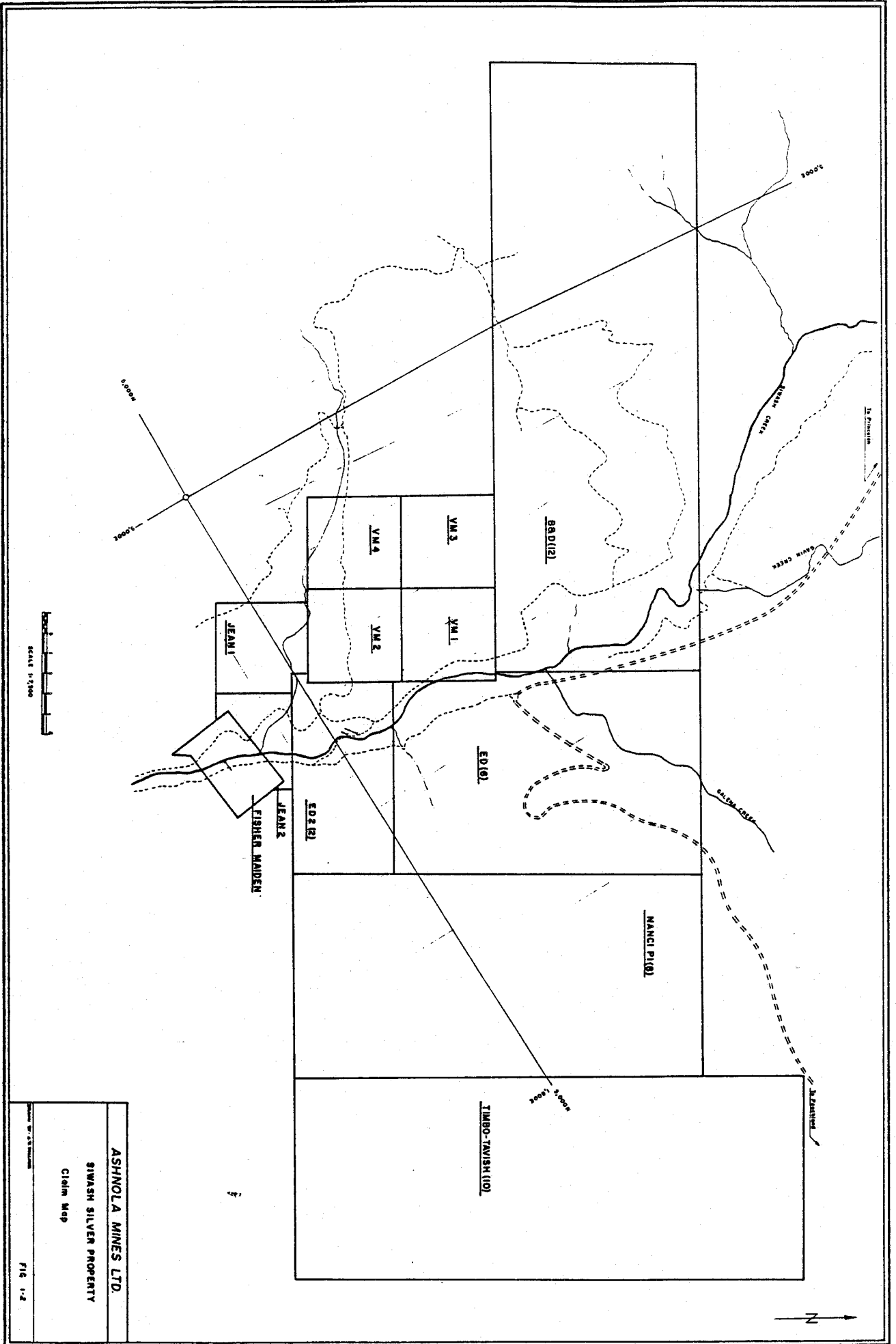
The Siwash Silver claims, totalling 48 units, are owned 100% by Tower Hill Mines Limited. The claims and record numbers are as follows:

| Claim Name | Record No | Unit/Type | Assessment Date |
|-------------------|-----------|-----------|-----------------|
| Ed | 074 | 6 MG | |
| Ed 2 | 172 | 2 MG | |
| V.M. 1 | 445 | 1 2P | |
| V.M. 2 | 446 | 1 2P | |
| V.M. 3 | 447 | 1 2P | |
| V.M. 4 | 448 | 1 2P | |
| Peterson | 8888 | 1 2P | |
| Fisher Maiden | 171 | 1 CG | |
| B & D | 3079 | 12 MG | |
| Jean 1 | 671 | 1 2P | |
| Jean 2 | 672 | 1 2P | |
| Total Claim units | | 28 | |

1.4 Topography

The topography ranges from 1220m to 1460m and is gently sloped for much of the property. The area adjacent to Siwash Creek is terraced with sections where the topography steepens considerably. Most of the area foliage consists of a mature stand of jackpine, fir and spruce. Very little undergrowth occurs among the generally well spaced stands allowing for easy travel.

Siwash Creek flows south through the centre of the property with several tributaries converging from both the east and west. Of these Galena Creek is the largest tributary, situated between Tepee Creek to the south and Gavin Creek to the north. These creeks flow from the east. The only tributary from the west is has been named Saskat Creek. Siwash Creek reaches peak flows by mid-June; at which time it is approximately 8m in width and cannot be forded. The new logging roads have provided two bridge crossings, so fording the creek is no longer necessary.



ASHNOLA MINES LTD.
 SIMASH SILVER PROPERTY
 Claim Map
 FIG 1-2

2.0 PROPERTY HISTORY

2.1 Pre 1978 Exploration

The first claims recorded on Siwash Creek date back to 1917. To the south the Mable claim (Camp Showing) was staked and work was done on several short adits¹. Mining was done along a highly altered shear which were said to host gold. North of the Mable claims the Fisher Maiden and Iron Duke were staked and being worked. The present claim group still contain both these claims with the renaming of the Iron Duke to the Petersen claim. Perhaps the oldest and most extensively worked claims was the Claremont Group which had 400 to 500 feet of underground development done. A reported sample grading 0.10 oz. Au. and 269 oz. Ag. was taken; such grades were scarce². This area is currently referred as the Monty showing.

Just to the north was the Renfrew Group which had the most work done at the time. A bulk sample of 27 tons were shipped from which 3 oz. gold and 3,379 oz. silver were recovered³. In all likelihood this bulk sample was hand cobbled and therefore the grades were not representative. The interesting feature of the sampling results is a noticeable correlation between high zinc values and gold, whereas, the higher galena values host the better silver grades.

2.2 Brenda Mines Exploration

When exploration was again directed on this area, the objective had changed to locating a porphyry-copper deposit as common to the Intermontane Belt. This work was done by Brenda Mines who compiled the property to a total of 182 contiguous claims under two separate option agreements. During 1979 to 1981, extensive grass roots surveys and exploration drilling were done;

2.2.1 Geochemistry

Grid lines, trending 30°, were spaced at 100m and 200m intervals with sample stations at every 50m. Soil samples taken were of the 'B' horizon and analyzed for Cu, Mo, Pb, Zn and Ag. Better anomalies were primarily Zn and Pb, with Cu, Mo, and Ag being low and sporadic.

2.2.2 Geophysical Surveys

Two surveys were conducted; a magnetometer survey of which no documentation is available and a Induced Polarization survey which outlined a very strong, clearly definable pyrite halo.

2.2.3 Geological Mapping

As part of the property exploration, Brenda Mines completed a detailed mapping of the entire property. Areas of outcrop were limited to about 10%, with most available and continuous exposure occurring along the bottom of Siwash Creek valley. Most of this geology is reported in the following chapter, as derived from this work.

2.2.4 Diamond Drilling

Diamond drilling done by Brenda mines failed to provide sufficient encouragement to continue exploration. In part exploration on the property was also suspended due to the down-turn of base metal prices. A total of 23 holes were completed during 1980 and 1981. Because the geochemical and geophysical surveys encompassed an area of 3000m by 5000m, drill targeting was difficult. Holes were located over much of the property. Some vein-type and disseminated intersections hosting largely lead and zinc were intersected.

3.0 GEOLOGY

3.1 Regional Geology

The Siwash Silver property and the surrounding area is predominantly underlain by igneous rocks of the Pennask Batholith, intruded by the sequence of Otter intrusives. The Pennask Batholith is composed of grey diorites and granodiorites, cut by aplite dykes. It has been classified as part of the Coastal intrusions of Upper Jurassic age. It is within this unit that the Brenda Mines deposit is hosted.

The Otter intrusives formed during a post-batholithic period of acid volcanism. They consist of white to orange, medium to very coarse grained, blocky alkali-feldspar and oligoclase phenocrysts, clear, medium-grained equant quartz hipyramids, and black, fine grained flakes of biotite. The matrix is composed largely of feldspar microlites and interstitial quartz, with accessory apatite, magnetite, sphene, and zircon. The Otter intrusions are classified as Eocene in age. These intrusions occur as dykes, intrusive stockworks and small volcanic plugs, associated with intense fracturing, brecciation, and hydrothermal alteration of the enveloping country rock³.

The younger feldspar porphyry intrusive unit occurs to the east at Trout Creek and at Siwash Creek. This unit is distinguishable by very large pink or white feldspar phenocrysts hosted in a fine grained red to mauve groundmass. Little quartz is present and at times cannot be seen.

3.2 Property Geology

All of the rock types within the boundaries of the current claim group are believed to be Otter intrusives. From the eastern boundary to the northwest is a Feldspar porphyry dyke or plug which is the youngest intrusive. The surrounding rock show intense to moderate alteration.

The four rock types present on the property are all believed to fall under the classification of Otter intrusive;

3.2.1 Granite

Coarse grained granite which outcrops along the southern portion of the property. This unit is composed of large, well-developed, crystals of pink and white feldspar, equal sized quartz grains and small hornblende or biotite clusters.

3.2.2 Quartz-eye Porphyry

A quartz-eye porphyry unit which is distinguishable by well rounded quartz crystals hosted in a buff-green, fine grain matrix. This unit occurs as a border phase to the feldspar porphyry unit. Hipyramid quartz crystals, which are rounded along crystal edges, characterizes this rock type. Sericite and kaolinite alteration is clearly visible along the contact between the granites and the feldspar porphyry unit.

3.2.3 Feldspar Porphyry

The alkalic feldspar porphyry is characterized by its 30 to 40 centimetre pink or white feldspar crystals hosted in a fine grained groundmass. The colour of the matrix is a function of alteration. This unit can range in colour from pink when unaltered, to mauve, to a buff-green, displaying clay and chlorite alteration. This intrusive is located along the northern portion of the property and its southern contact appears to trend in a northwesterly direction.

3.2.4 Diatremes

Several large diatreme pipes occur along Siwash Creek and then continues northward up Gavin Creek. These units can be distinguished by their well-rounded fragments cemented in a light-brown to buff-green matrix. The matrix has a granular, hypocrySTALLINE texture which is composed of non-mafic rock. The rounded fragments range in size from 1 cm to 20cm. Fragments consist of various country rock, sanidine, albite and quartz. These show little evidence of alteration. The groundmass has kaolinite and sericite alteration. To date no mineralization, or fragments containing sulphide minerals, has been found in these units. The location and the linear nature of these diatremes clearly follow a north trending fault zone, along which Siwash Creek and Gavin Creek currently flow.

3.2.5 Alteration

Alteration is very dominant on the property in and around the feldspar porphyry intrusive. The alteration varies from moderate to intense and classified as argillic, phyllic, and propylitic respectively.

3.2.6 Structure

Structurally, there appear to be several vein structures evident south of the intrusive. Veining trends in a north-south and northeast direction.

4.0 WORK DONE 1988

4.1 Soil Geochemistry

Commencing late October 1988, a three man field crew was employed on the property and took soil samples on a 50m by 50m grid in the centre anomaly located on the property. A total of 22 kms of lines were picketed. The main purpose for this re-sampling program was to determine the related gold values, which previous surveys had not determined. Soil samples were taken of the 'C' horizon using hand augers. Elements analyzed were; Zn, Pb, Cu, Ag, and Au. One consideration effecting the continuity of soil anomalies is the presence of thick alluvial stream-terraces adjacent to Siwash Creek.

4.1.1 Results

The detailed mini-grid survey helped to further define the northeast trending mineralized structures. In turn, the anomalies outlined on figs #1 thur #5 were given a northeast bias as suggested by the mapped vein strikes and previous geochemical/geophysical data. A good correlation of individual element anomalies is evident. This would suggest that a minimum of six mineralized veins occur south of the central intrusion.

As expected the Pb and Zn anomalies are quite strong with only weak values in Cu, Ag and Au. The Au values are sporadic with only few samples above 10 ppb. The anomalous gold values fall on-strike with the other element anomalies. As indicated by rock sampling of the exposed veins, gold is often associated with the other mineralization.

4.2 Rock Geochemistry Survey

A rock sampling program of outcrops and showings collected 53 samples. Again, the main objective of this survey was to determine the presence of gold associated with other known mineralization. Some veins were sampled taking only the mineralization (high-graded) as with the Fisher Maiden galena vein. This produced an assay grading 0.30 oz gold, with associated silver grades of >3.0 oz. All five elements were geochemically assayed for all sampling.

4.2.1 Results

Gold values produced in this survey were somewhat disappointing with only the Fisher Maiden vein proven as gold bearing. (fig 6)

5.0 CONCLUSION

The veining evident on the Siwash Silver property is more regular and abundant than summarized by earlier geologic interpretation. A minimum of six, parallel, northeast trending mineralized vein structures, spaced approximately 150m, with a strike length from 500m to 1000m are indicated by soil geochemistry, geologic mapping and supported by geophysical signatures. Currently, only three of these veins are exposed along Siwash Creek valley.

Further exploration work is necessary to investigate mineral potential of all the vein structures present. Past drill intercepts has shown mineralized vein widths from 4m to 8m, grading sub-economic grades in accumulated Pb, Zn, Ag or low-grade larger tonnage potential extension of mineralized widths of 34m grading 16 gm. Ag (0.46 o.p.t.). associated with low-grade Pb and Zn. It is anticipated that some low grade or sporadic higher-grade gold values will be found present in areas of vein-type mineralization. Current work does support that some gold is present in the system which would increase the over-all economic potential.

6.0 RECOMMENDATIONS

Further exploration work should be carried out to identify and explore the mineral potential of all identified vein structures.

6.1 Core Logging

Re-logging and sampling of old diamond drill holes to determine gold values and for further structural analysis.

6.2 Trenching

In areas of minimal overburden, perpendicular to strike along the anomalies east of Siwash Creek and south of the Saskat Creek tributary.

6.3 Geologic Mapping

Further detailed geologic mapping with emphasis on the dominant structural controls which appear to govern mineralization.

6.4 Drilling

A drill program to determine continuity, grade, and width of vein structures. Initial drilling should be limited to a series of shallow -45° angle holes.

7.0 EXPLORATION EXPENDITURES 1988

| | |
|--|-------------|
| Soil/rock sampling contract (Lone trail expl) .. | \$ 7,644.44 |
| Project supervision | \$ 1,300.00 |
| Travel and accommodation | \$ 522.56 |
| Assay costs (Roszbacher Labs) | \$ 4,678.16 |
| Supplies | \$ 210.00 |
| Report | \$ 1,625.00 |
| <hr/> | |
| Total | \$15,980.16 |

REFERENCES

- 1 Ann. Rept., Minister of Mines, B.C., 1927, p. 247.
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- 3 Ann. Rept., Minister of Mines, B.C., 1925, p. 210;
1927, p. 247; 1928, p. 264; 1929, p. 277.
- 4 Rice, H.M.A., 1947, Geology and mineral deposits of the
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Geol. Surv. Can. Mem. 243, p. 36
- 5 Armstrong, R.L., 1980, Age and SR isotope composition
of the Siwash Creek, Trout Creek, and other Quartz-
feldspar porphyry intrusions west of Okanagan Lake,
Southern B.C.: Dept. of Geological Sciences, UBC.

ROSSBACHER LABORATORY LTD.

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CERTIFICATE OF ANALYSIS

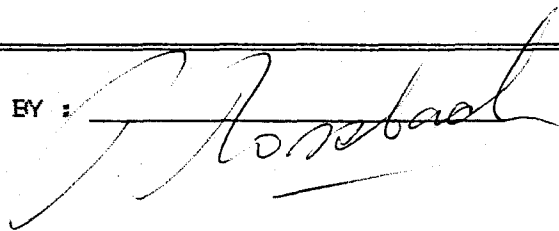
TO : MR. ARNIE POLLMER
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GABRIOLA ISL., B.C.

CERTIFICATE # : 88342
INVOICE # : 90115
DATE ENTERED : 88-11-24
FILE NAME : AP88342.G
PAGE # : 1

PROJECT :
TYPE OF ANALYSIS : GEOCHEMICAL

| PRE FIX | SAMPLE NAME | PPM Cu | PPM Ag | PPM Zn | PPM Pb | PPB Au |
|------------|---------------|-----------|-----------|-----------|-----------|-----------|
| S | L 5000N 4900W | 6 | 0.4 | 302 | 22 | 5 |
| S | L 5000N 4950W | 6 | 0.4 | 174 | 24 | 5 |
| S | L 5000N 5000W | 54 | 2.4 | 790 | 264 | 5 |
| S | L 5000N 5050W | 12 | 0.2 | 104 | 20 | 5 |
| S | L 5000N 5100W | 16 | 0.4 | 252 | 26 | 5 |
| S | L 5000N 5150W | 16 | 0.4 | 350 | 30 | 5 |
| S | L 5000N 5200W | 14 | 0.6 | 580 | 38 | 5 |
| S | L 5000N 5250W | 12 | 0.4 | 324 | 22 | 5 |
| S | L 5000N 5300W | 18 | 0.2 | 150 | 36 | 5 |
| S | L 5000N 5350W | 12 | 0.4 | 234 | 30 | 5 |
| S | L 5000N 5400W | 14 | 0.6 | 386 | 40 | 5 |
| S | L 5000N 5450W | 12 | 0.4 | 400 | 24 | 5 |
| S | L 5000N 5500W | 24 | 0.4 | 268 | 36 | 5 |
| S | L 5000N 5550W | 24 | 0.6 | 264 | 40 | 5 |
| S | L 5000N 5600W | 20 | 0.6 | 336 | 38 | 5 |
| S | L 5000N 5650W | 278 | 3.2 | 1320 | 140 | 5 |
| S | L 5000N 5700W | 90 | 2.0 | 930 | 70 | 5 |
| S | L 5000N 5750W | 86 | 2.0 | 1180 | 94 | 5 |
| S | L 5050N 4850W | 14 | 0.2 | 860 | 78 | 5 |
| S | L 5050N 4900W | 16 | 0.2 | 360 | 80 | 5 |
| S | L 5050N 4950W | 8 | 0.2 | 344 | 52 | 5 |
| S | L 5050N 5000W | 34 | 0.4 | 288 | 90 | 5 |
| S | L 5050N 5050W | 12 | 0.6 | 176 | 20 | 5 |
| S | L 5050N 5100W | 14 | 0.6 | 298 | 42 | 180 |
| S | L 5050N 5150W | 20 | 0.6 | 840 | 40 | 5 |
| S | L 5050N 5200W | 18 | 0.4 | 230 | 34 | 5 |
| S | L 5050N 5250W | 8 | 0.4 | 166 | 12 | 5 |
| S | L 5050N 5300W | 16 | 0.4 | 238 | 30 | 5 |
| S | L 5050N 5350W | 8 | 0.2 | 284 | 26 | 5 |
| S | L 5100N 4850W | 10 | 0.6 | 1020 | 94 | 5 |
| S | L 5100N 4900W | 14 | 0.2 | 840 | 158 | 5 |
| S | L 5100N 4950W | 12 | 0.2 | 310 | 42 | 5 |
| S | L 5100N 5000W | 54 | 0.2 | 406 | 44 | 5 |
| S | L 5100N 5050W | 10 | 0.2 | 62 | 16 | 5 |
| S | L 5100N 5100W | 40 | 0.2 | 198 | 42 | 5 |
| S | L 5100N 5200W | 94 | 1.8 | 620 | 124 | 5 |
| S | L 5100N 5250W | 14 | 0.2 | 148 | 28 | 5 |
| S | L 5100N 5300W | 16 | 0.2 | 262 | 32 | 5 |
| S | L 5100N 5350W | 14 | 0.2 | 362 | 82 | 5 |

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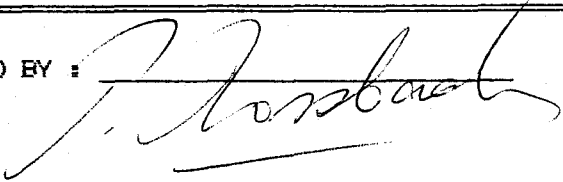
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FILE NAME : AP88342.G
PAGE # : 2

PROJECT :
TYPE OF ANALYSIS : GEOCHEMICAL

| PRE FIX | SAMPLE NAME | PPM Cu | PPM Ag | PPM Zn | PPM Pb | PPB Au |
|------------|---------------|-----------|-----------|-----------|-----------|-----------|
| S | L 5100N 5400W | 18 | 0.4 | 304 | 42 | 5 |
| S | L 5100N 5450W | 10 | 0.2 | 256 | 28 | 20 |
| S | L 5100N 5500W | 8 | 0.2 | 272 | 26 | 5 |
| S | L 5100N 5550W | 12 | 0.2 | 180 | 28 | 5 |
| S | L 5100N 5600W | 18 | 0.2 | 210 | 16 | 5 |
| S | L 5100N 5650W | 22 | 0.2 | 332 | 52 | 5 |
| S | L 5100N 5700W | 20 | 0.2 | 462 | 44 | 5 |
| S | L 5100N 5750W | 24 | 0.6 | 496 | 80 | 5 |
| S | L 5150N 4850W | 14 | 0.2 | 700 | 64 | 5 |
| S | L 5150N 4900W | 14 | 0.2 | 650 | 88 | 5 |
| S | L 5150N 4950W | 22 | 0.2 | 510 | 26 | 5 |
| S | L 5150N 5000W | 76 | 0.8 | 1180 | 178 | 5 |
| S | L 5150N 5100W | 28 | 0.2 | 190 | 34 | 5 |
| S | L 5150N 5200W | 28 | 0.2 | 214 | 38 | 5 |
| S | L 5150N 5250W | 16 | 0.2 | 328 | 34 | 5 |
| S | L 5150N 5300W | 14 | 0.2 | 312 | 56 | 5 |
| S | L 5150N 5350W | 20 | 0.2 | 248 | 56 | 5 |
| S | L 5200N 4850W | 54 | 3.0 | 2350 | 108 | 5 |
| S | L 5200N 4900W | 8 | 0.2 | 384 | 58 | 5 |
| S | L 5200N 4950W | 16 | 0.2 | 246 | 24 | 5 |
| S | L 5200N 5000W | 24 | 0.2 | 332 | 40 | 5 |
| S | L 5200N 5050W | 44 | 0.8 | 492 | 30 | 5 |
| S | L 5200N 5100W | 18 | 0.4 | 560 | 96 | 5 |
| S | L 5200N 5150W | 78 | 0.2 | 590 | 120 | 5 |
| S | L 5200N 5200W | 30 | 0.2 | 670 | 38 | 5 |
| S | L 5200N 5250W | 76 | 1.2 | 1260 | 56 | 5 |
| S | L 5200N 5300W | 84 | 4.0 | 1340 | 84 | 5 |
| S | L 5200N 5350W | 14 | 0.2 | 458 | 48 | 5 |
| S | L 5200N 5400W | 12 | 0.2 | 206 | 34 | 5 |
| S | L 5200N 5450W | 10 | 0.2 | 226 | 34 | 5 |
| S | L 5200N 5500W | 20 | 0.2 | 176 | 24 | 5 |
| S | L 5200N 5550W | 26 | 0.2 | 190 | 32 | 5 |
| S | L 5200N 5600W | 18 | 0.2 | 208 | 22 | 5 |
| S | L 5200N 5650W | 24 | 0.2 | 198 | 32 | 5 |
| S | L 5200N 5700W | 24 | 0.2 | 342 | 56 | 5 |
| S | L 5250N 4900W | 16 | 0.2 | 110 | 2380 | 5 |
| S | L 5250N 4950W | 14 | 0.2 | 248 | 22 | 5 |
| S | L 5250N 5000W | 30 | 0.2 | 196 | 62 | 5 |
| S | L 5250N 5050W | 24 | 0.2 | 256 | 38 | 5 |

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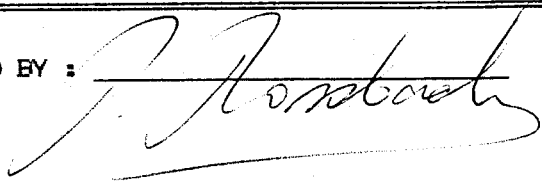
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PAGE # : 3

PROJECT :
TYPE OF ANALYSIS : GEOCHEMICAL

| PRE FIX | SAMPLE NAME | PPM Cu | PPM Ag | PPM Zn | PPM Pb | PPB Au |
|------------|---------------|-----------|-----------|-----------|-----------|-----------|
| S | L 5250N 5100W | 20 | 0.2 | 234 | 28 | 5 |
| S | L 5250N 5150W | 18 | 0.2 | 290 | 30 | 5 |
| S | L 5250N 5200W | 22 | 0.2 | 210 | 36 | 5 |
| S | L 5250N 5250W | 28 | 0.2 | 232 | 58 | 5 |
| S | L 5250N 5300W | 42 | 0.2 | 226 | 38 | 5 |
| S | L 5250N 5350W | 10 | 0.2 | 172 | 34 | 5 |
| S | L 5300N 4900W | 8 | 0.2 | 240 | 34 | 5 |
| S | L 5300N 4950W | 14 | 0.2 | 188 | 20 | 5 |
| S | L 5300N 5000W | 10 | 0.2 | 218 | 26 | 5 |
| S | L 5300N 5100W | 10 | 0.2 | 890 | 32 | 5 |
| S | L 5300N 5150W | 144 | 3.6 | 1760 | 166 | 5 |
| S | L 5300N 5200W | 22 | 0.4 | 388 | 42 | 5 |
| S | L 5300N 5250W | 20 | 0.4 | 228 | 20 | 5 |
| S | L 5300N 5300W | 24 | 0.2 | 376 | 40 | 10 |
| S | L 5300N 5350W | 22 | 0.2 | 198 | 18 | 5 |
| S | L 5300N 5400W | 14 | 0.2 | 216 | 40 | 5 |
| S | L 5300N 5450W | 14 | 0.2 | 416 | 46 | 5 |
| S | L 5300N 5500W | 12 | 0.2 | 390 | 52 | 5 |
| S | L 5300N 5550W | 14 | 0.2 | 224 | 38 | 5 |
| S | L 5300N 5600W | 20 | 0.2 | 140 | 18 | 5 |
| S | L 5300N 5650W | 12 | 0.2 | 168 | 20 | 5 |
| S | L 5300N 5700W | 18 | 0.2 | 152 | 10 | 5 |
| S | L 5350N 4900W | 8 | 0.2 | 324 | 60 | 5 |
| S | L 5350N 4950W | 6 | 0.2 | 248 | 16 | 5 |
| S | L 5350N 5000W | 10 | 0.2 | 290 | 30 | 5 |
| S | L 5350N 5100W | 140 | 2.4 | 1980 | 64 | 5 |
| S | L 5350N 5150W | 26 | 0.4 | 1320 | 38 | 5 |
| S | L 5350N 5200W | 26 | 0.2 | 264 | 20 | 5 |
| S | L 5350N 5300W | 6 | 0.2 | 506 | 26 | 5 |
| S | L 5350N 5350W | 30 | 0.2 | 372 | 50 | 5 |
| S | L 5400N 4500W | 6 | 0.2 | 850 | 48 | 5 |
| S | L 5400N 4550W | 6 | 0.2 | 770 | 32 | 5 |
| S | L 5400N 4600W | 12 | 0.2 | 480 | 36 | 5 |
| S | L 5400N 4650W | 10 | 0.2 | 318 | 20 | 5 |
| S | L 5400N 4700W | 8 | 0.2 | 362 | 34 | 5 |
| S | L 5400N 4750W | 6 | 0.2 | 414 | 14 | 5 |
| S | L 5400N 4800W | 6 | 0.2 | 438 | 34 | 5 |
| S | L 5400N 4850W | 14 | 0.2 | 550 | 30 | 5 |
| S | L 5400N 4900W | 6 | 0.2 | 1320 | 66 | 5 |

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CERTIFICATE OF ANALYSIS

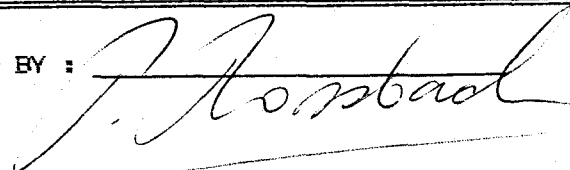
TO : MR. ARNIE POLLMER
RR#2, SITE 40
GABRIOLA ISL., B.C.

CERTIFICATE # : 88342
INVOICE # : 90115
DATE ENTERED : 88-11-24
FILE NAME : APB8342.G
PAGE # : 4

PROJECT :
TYPE OF ANALYSIS : GEOCHEMICAL

| PRE FIX | SAMPLE NAME | PPM Cu | PPM Ag | PPM Zn | PPM Pb | PPB Au |
|------------|---------------|-----------|-----------|-----------|-----------|-----------|
| S | L 5400N 4950W | 10 | 0.2 | 254 | 14 | 5 |
| S | L 5400N 5000W | 8 | 0.2 | 160 | 24 | 5 |
| S | L 5400N 5100W | 26 | 0.4 | 550 | 36 | 5 |
| S | L 5400N 5150W | 20 | 0.4 | 270 | 12 | 5 |
| S | L 5400N 5200W | 26 | 0.2 | 246 | 32 | 5 |
| S | L 5400N 5250W | 70 | 3.4 | 930 | 1080 | 20 |
| S | L 5400N 5300W | 30 | 0.2 | 560 | 48 | 5 |
| S | L 5400N 5350W | 22 | 0.2 | 1080 | 190 | 5 |
| S | L 5400N 5400W | 144 | 1.4 | 1940 | 246 | 5 |
| S | L 5400N 5450W | 94 | 1.4 | 1780 | 226 | 5 |
| S | L 5400N 5500W | 98 | 1.8 | 1620 | 130 | 5 |
| S | L 5400N 5550W | 22 | 0.4 | 512 | 20 | 5 |
| S | L 5400N 5600W | 12 | 0.4 | 640 | 38 | 5 |
| S | L 5400N 5650W | 12 | 0.2 | 472 | 60 | 5 |
| S | L 5400N 5700W | 18 | 0.2 | 188 | 24 | 5 |
| S | L 5400N 5750W | 16 | 0.2 | 178 | 28 | 190 |
| S | L 5450N 5000W | 42 | 1.4 | 960 | 178 | 5 |
| S | L 5450N 5200W | 16 | 0.4 | 320 | 22 | 5 |
| S | L 5450N 5250W | 14 | 0.2 | 264 | 28 | 5 |
| S | L 5450N 5300W | 22 | 0.4 | 444 | 94 | 5 |
| S | L 5450N 5350W | 24 | 0.2 | 1400 | 278 | 5 |
| S | L 5450N 5400W | 14 | 0.2 | 560 | 102 | 5 |
| S | L 5450N 5450W | 24 | 0.4 | 730 | 132 | 5 |
| S | L 5450N 5500W | 22 | 0.2 | 370 | 48 | 5 |
| S | L 5500N 4500W | 8 | 0.2 | 600 | 58 | 5 |
| S | L 5500N 4550W | 8 | 0.4 | 760 | 52 | 5 |
| S | L 5500N 4600W | 16 | 0.4 | 2450 | 32 | 5 |
| S | L 5500N 4650W | 12 | 0.2 | 448 | 36 | 5 |
| S | L 5500N 4700W | 4 | 0.4 | 1580 | 12 | 5 |
| S | L 5500N 4750W | 10 | 0.2 | 488 | 28 | 5 |
| S | L 5500N 4800W | 38 | 1.8 | 610 | 44 | 60 |
| S | L 5500N 4850W | 14 | 0.2 | 504 | 36 | 5 |
| S | L 5500N 4900W | 22 | 0.2 | 2060 | 102 | 5 |
| S | L 5500N 4950W | 10 | 0.2 | 52 | 26 | 5 |
| S | L 5500N 5000W | 12 | 0.2 | 204 | 38 | 5 |
| S | L 5500N 5100W | 22 | 0.2 | 208 | 16 | 5 |
| S | L 5500N 5150W | 22 | 0.2 | 366 | 22 | 5 |
| S | L 5500N 5200W | 26 | 0.2 | 1240 | 106 | 5 |
| S | L 5500N 5250W | 22 | 0.2 | 406 | 32 | 5 |

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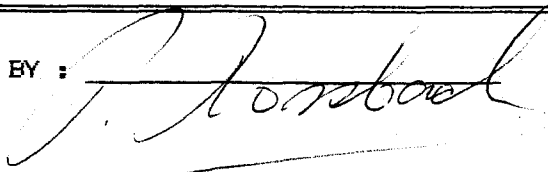
CERTIFICATE OF ANALYSIS

TO : MR. ARNIE POLLMER
RR#2, SITE 40
GABRIOLA ISL., B.C.

CERTIFICATE # : 88342
INVOICE # : 90115
DATE ENTERED : 88-11-24
FILE NAME : AP88342.G
PAGE # : 5

PROJECT :
TYPE OF ANALYSIS : GEOCHEMICAL

| FRE FIX | SAMPLE NAME | PPM Cu | PPM Ag | PPM Zn | PPM Pb | PPB Au |
|------------|---------------|-----------|-----------|-----------|-----------|-----------|
| S | L 5500N 5300W | 16 | 0.2 | 250 | 22 | 5 |
| S | L 5500N 5350W | 18 | 0.4 | 206 | 26 | 5 |
| S | L 5500N 5400W | 56 | 1.4 | 700 | 98 | 80 |
| S | L 5500N 5450W | 16 | 0.4 | 690 | 52 | 5 |
| S | L 5500N 5500W | 18 | 0.2 | 254 | 24 | 5 |
| S | L 5600N 4500W | 6 | 0.2 | 570 | 20 | 5 |
| S | L 5600N 4550W | 20 | 1.2 | 1120 | 34 | 5 |
| S | L 5600N 4600W | 20 | 0.8 | 1900 | 56 | 5 |
| S | L 5600N 4650W | 16 | 0.6 | 900 | 52 | 5 |
| S | L 5600N 4700W | 10 | 0.2 | 484 | 48 | 5 |
| S | L 5600N 4750W | 14 | 0.2 | 402 | 58 | 5 |
| S | L 5600N 4800W | 6 | 0.2 | 380 | 12 | 5 |
| S | L 5600N 4850W | 10 | 0.2 | 1360 | 328 | 5 |
| S | L 5600N 4900W | 124 | 1.0 | 1960 | 158 | 5 |
| S | L 5600N 4950W | 28 | 0.2 | 1080 | 72 | 5 |
| S | L 5600N 5000W | 10 | 0.2 | 1280 | 54 | 5 |
| S | L 5600N 5150W | 20 | 0.2 | 368 | 20 | 5 |
| S | L 5600N 5200W | 16 | 0.2 | 448 | 64 | 5 |
| S | L 5600N 5250W | 26 | 0.2 | 282 | 38 | 5 |
| S | L 5600N 5300W | 42 | 0.4 | 620 | 50 | 5 |
| S | L 5600N 5350W | 16 | 0.8 | 880 | 42 | 5 |
| S | L 5600N 5400W | 14 | 0.4 | 570 | 40 | 5 |
| S | L 5600N 5450W | 16 | 0.4 | 580 | 38 | 5 |
| S | L 5600N 5500W | 16 | 0.2 | 152 | 38 | 5 |
| S | L 5600N 5550W | 10 | 0.2 | 130 | 20 | 5 |
| S | L 5600N 5600W | 8 | 0.2 | 92 | 10 | 5 |
| S | L 5600N 5650W | 22 | 0.4 | 172 | 62 | 5 |
| S | L 5600N 5700W | 20 | 0.2 | 94 | 34 | 5 |
| S | L 5650N 5000W | 10 | 0.2 | 316 | 36 | 5 |
| S | L 5650N 5100W | 24 | 0.2 | 296 | 16 | 5 |
| S | L 5650N 5150W | 12 | 0.6 | 464 | 18 | 5 |
| S | L 5650N 5200W | 16 | 0.4 | 320 | 74 | 5 |
| S | L 5650N 5250W | 20 | 0.2 | 820 | 50 | 50 |
| S | L 5650N 5300W | 30 | 0.2 | 434 | 18 | 5 |
| S | L 5650N 5350W | 24 | 0.6 | 1260 | 128 | 5 |
| S | L 5650N 5400W | 18 | 0.4 | 970 | 42 | 5 |
| S | L 5650N 5450W | 12 | 0.4 | 940 | 42 | 5 |
| S | L 5650N 5500W | 18 | 0.2 | 296 | 44 | 5 |
| S | L 5700N 4500W | 18 | 0.4 | 730 | 46 | 5 |

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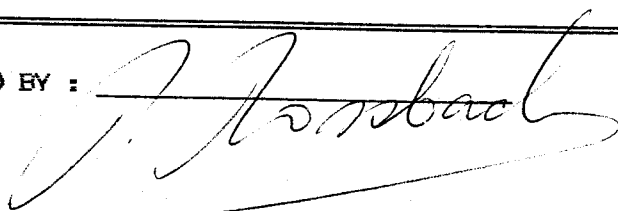
TO : MR. ARNIE POLLMER
RR#2, SITE 40
GABRIOLA ISL., B.C.

PROJECT :
TYPE OF ANALYSIS : GEOCHEMICAL

CERTIFICATE # : 88342
INVOICE # : 90115
DATE ENTERED : 88-11-24
FILE NAME : AP88342.G
PAGE # : 6

| PRE FIX | SAMPLE NAME | PPM Cu | PPM Ag | PPM Zn | PPM Pb | PPB Au |
|------------|---------------|-----------|-----------|-----------|-----------|-----------|
| S | L 5700N 4550W | 6 | 0.4 | 520 | 42 | 5 |
| S | L 5700N 4600W | 14 | 0.6 | 1580 | 138 | 5 |
| S | L 5700N 4650W | 6 | 0.6 | 600 | 52 | 10 |
| S | L 5700N 4700W | 4 | 0.2 | 238 | 18 | 5 |
| S | L 5700N 4750W | 6 | 0.2 | 358 | 38 | 5 |
| S | L 5700N 4800W | 4 | 0.2 | 326 | 20 | 5 |
| S | L 5700N 4850W | 8 | 0.2 | 184 | 10 | 5 |
| S | L 5700N 4900W | 6 | 0.2 | 96 | 22 | 50 |
| S | L 5700N 4950W | 8 | 0.2 | 102 | 24 | 5 |
| S | L 5700N 5100W | 28 | 0.2 | 290 | 18 | 5 |
| S | L 5700N 5150W | 64 | 1.8 | 1400 | 112 | 5 |
| S | L 5700N 5200W | 12 | 0.8 | 620 | 24 | 5 |
| S | L 5700N 5250W | 14 | 0.2 | 502 | 88 | 5 |
| S | L 5700N 5300W | 18 | 0.4 | 760 | 72 | 5 |
| S | L 5700N 5350W | 16 | 0.6 | 1120 | 262 | 5 |
| S | L 5700N 5400W | 16 | 0.6 | 940 | 138 | 5 |
| S | L 5700N 5450W | 14 | 0.2 | 700 | 36 | 5 |
| S | L 5700N 5500W | 8 | 0.2 | 438 | 40 | 5 |
| S | L 5700N 5550W | 24 | 0.2 | 180 | 40 | 5 |
| S | L 5700N 5600W | 18 | 0.2 | 590 | 26 | 5 |
| S | L 5700N 5650W | 16 | 0.2 | 620 | 64 | 40 |
| S | L 5700N 5700W | 14 | 0.4 | 770 | 46 | 5 |
| S | L 5700N 5750W | 30 | 0.4 | 458 | 52 | 5 |
| S | L 5700N 5800W | 14 | 0.2 | 650 | 48 | 5 |
| S | L 5700N 5850W | 24 | 0.4 | 800 | 82 | 5 |
| S | L 5700N 5900W | 20 | 0.4 | 436 | 44 | 5 |
| S | L 5700N 5950W | 30 | 0.4 | 366 | 54 | 5 |
| S | L 5700N 6000W | 24 | 0.2 | 116 | 30 | 5 |
| S | L 5700N 6050W | 20 | 0.2 | 112 | 10 | 5 |
| S | L 5700N 6100W | 18 | 0.2 | 66 | 28 | 5 |
| S | L 5700N 6150W | 24 | 0.2 | 64 | 28 | 5 |
| S | L 5700N 6200W | 34 | 0.2 | 72 | 18 | 5 |
| S | L 5700N 6250W | 24 | 0.2 | 66 | 16 | 5 |
| S | L 5700N 6300W | 28 | 0.2 | 116 | 24 | 150 |
| S | L 5750N 5050W | 12 | 1.2 | 560 | 254 | 5 |
| S | L 5750N 5100W | 32 | 0.2 | 540 | 36 | 5 |
| S | L 5750N 5150W | 74 | 1.0 | 1540 | 124 | 5 |
| S | L 5750N 5200W | 14 | 1.0 | 590 | 212 | 5 |

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CERTIFICATE OF ANALYSIS

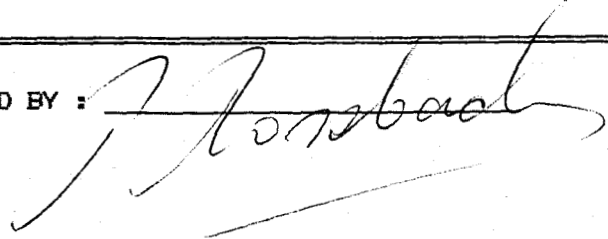
TO : MR. ARNIE POLLMER
RR#2, SITE 40
GABRIOLA ISL., B.C.

CERTIFICATE # : 88342
INVOICE # : 90115
DATE ENTERED : 88-11-24
FILE NAME : AP88342.G
PAGE # : 7

PROJECT :
TYPE OF ANALYSIS : GEOCHEMICAL

| PRE FIX | SAMPLE NAME | PPM Cu | PPM Ag | PPM Zn | PPM Pb | PPB Au |
|------------|---------------|-----------|-----------|-----------|-----------|-----------|
| S | L 5750N 5300W | 16 | 0.8 | 1200 | 106 | 5 |
| S | L 5750N 5350W | 38 | 1.2 | 1380 | 76 | 5 |
| S | L 5750N 5400W | 16 | 0.6 | 1000 | 74 | 5 |
| S | L 5750N 5450W | 22 | 0.2 | 1360 | 104 | 5 |
| S | L 5750N 5500W | 20 | 0.4 | 660 | 48 | 5 |
| S | L 5800N 4500W | 8 | 0.4 | 470 | 36 | 5 |
| S | L 5800N 4550W | 42 | 1.8 | 1520 | 62 | 5 |
| S | L 5800N 4600W | 24 | 0.2 | 900 | 30 | 5 |
| S | L 5800N 4650W | 10 | 0.2 | 1060 | 96 | 5 |
| S | L 5800N 4700W | 14 | 0.8 | 700 | 70 | 5 |
| S | L 5800N 4750W | 14 | 0.2 | 860 | 68 | 5 |
| S | L 5800N 4800W | 32 | 1.4 | 1320 | 850 | 5 |
| S | L 5800N 4850W | 10 | 0.2 | 670 | 20 | 5 |
| S | L 5800N 4900W | 8 | 0.2 | 166 | 22 | 5 |
| S | L 5800N 4950W | 12 | 0.2 | 224 | 24 | 5 |
| S | L 5800N 5000W | 18 | 0.4 | 442 | 38 | 5 |
| S | L 5800N 5050W | 28 | 0.2 | 116 | 20 | 5 |
| S | L 5800N 5250W | 160 | 2.6 | 1120 | 700 | 5 |
| S | L 5800N 5300W | 18 | 0.8 | 820 | 112 | 5 |
| S | L 5800N 5350W | 22 | 0.8 | 1400 | 106 | 5 |
| S | L 5800N 5400W | 16 | 0.4 | 890 | 110 | 5 |
| S | L 5800N 5450W | 8 | 0.8 | 1320 | 100 | 5 |
| S | L 5800N 5500W | 14 | 0.2 | 620 | 64 | 5 |
| S | L 5800N 5600W | 20 | 1.4 | 770 | 148 | 5 |
| S | L 5800N 5650W | 24 | 0.2 | 372 | 24 | 5 |
| S | L 5800N 5700W | 38 | 0.4 | 860 | 40 | 5 |
| S | L 5800N 5750W | 16 | 0.2 | 454 | 32 | 5 |
| S | L 5800N 5800W | 28 | 0.4 | 1160 | 96 | 5 |
| S | L 5800N 5850W | 18 | 0.2 | 870 | 36 | 5 |
| S | L 5800N 5900W | 12 | 0.2 | 142 | 30 | 5 |
| S | L 5800N 5950W | 20 | 0.2 | 408 | 38 | 5 |
| S | L 5800N 6000W | 18 | 0.2 | 228 | 46 | 5 |
| S | L 5800N 6050W | 42 | 0.2 | 570 | 24 | 5 |
| S | L 5800N 6100W | 16 | 0.2 | 468 | 36 | 5 |
| S | L 5800N 6150W | 14 | 0.2 | 366 | 32 | 5 |
| S | L 5800N 6200W | 32 | 0.4 | 540 | 94 | 5 |
| S | L 5800N 6250W | 36 | 0.2 | 122 | 26 | 5 |
| S | L 5800N 6300W | 28 | 0.2 | 102 | 24 | 5 |
| S | L 5850N 4850W | 16 | 0.2 | 60 | 46 | 5 |

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CERTIFICATE OF ANALYSIS

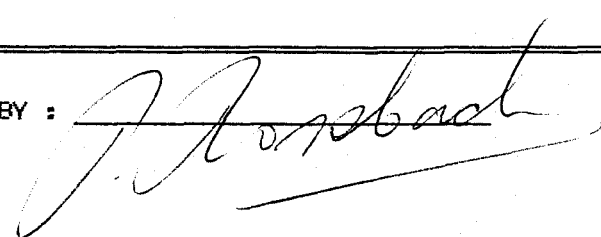
TO : MR. ARNIE POLLMER
RR#2, SITE 40
GABRIOLA ISL., B.C.

CERTIFICATE # : 88342
INVOICE # : 90115
DATE ENTERED : 88-11-24
FILE NAME : AP88342.G
PAGE # : 8

PROJECT :
TYPE OF ANALYSIS : GEOCHEMICAL

| PRE FIX | SAMPLE NAME | PPM Cu | PPM Ag | PPM Zn | PPM Pb | PPB Au |
|------------|---------------|-----------|-----------|-----------|-----------|-----------|
| S | L 5850N 4900W | 18 | 0.2 | 152 | 26 | 5 |
| S | L 5850N 4950W | 14 | 0.2 | 316 | 34 | 5 |
| S | L 5850N 5000W | 40 | 0.2 | 120 | 36 | 50 |
| S | L 5850N 5050W | 54 | 0.2 | 200 | 22 | 30 |
| S | L 5850N 5100W | 250 | 7.6 | 502 | 2300 | 10 |
| S | L 5850N 5200W | 24 | 0.2 | 274 | 42 | 5 |
| S | L 5850N 5250W | 32 | 0.8 | 550 | 392 | 5 |
| S | L 5850N 5300W | 52 | 0.8 | 570 | 210 | 5 |
| S | L 5850N 5350W | 18 | 0.8 | 750 | 94 | 5 |
| S | L 5850N 5400W | 10 | 0.6 | 800 | 74 | 5 |
| S | L 5850N 5450W | 10 | 0.6 | 1160 | 90 | 5 |
| S | L 5850N 5500W | 14 | 0.8 | 1040 | 80 | 5 |
| S | L 5900N 4500W | 10 | 0.6 | 392 | 24 | 5 |
| S | L 5900N 4550W | 44 | 2.6 | 530 | 56 | 5 |
| S | L 5900N 4600W | 28 | 1.0 | 830 | 362 | 5 |
| S | L 5900N 4650W | 52 | 0.8 | 1260 | 128 | 5 |
| S | L 5900N 4700W | 14 | 0.4 | 910 | 110 | 5 |
| S | L 5900N 4750W | 24 | 0.6 | 1120 | 346 | 5 |
| S | L 5900N 4800W | 18 | 0.2 | 1300 | 106 | 5 |
| S | L 5900N 4850W | 34 | 0.6 | 1240 | 100 | 5 |
| S | L 5900N 4900W | 12 | 0.2 | 344 | 30 | 5 |
| S | L 5900N 4950W | 14 | 0.2 | 66 | 10 | 5 |
| S | L 5900N 5000W | 14 | 0.2 | 40 | 8 | 5 |
| S | L 5900N 5050W | 38 | 0.2 | 84 | 40 | 5 |
| S | L 5900N 5100W | 18 | 0.2 | 118 | 18 | 5 |
| S | L 5900N 5200W | 14 | 0.2 | 336 | 16 | 5 |
| S | L 5900N 5250W | 42 | 0.4 | 344 | 190 | 5 |
| S | L 5900N 5300W | 26 | 0.6 | 506 | 194 | 5 |
| S | L 5900N 5350W | 40 | 0.6 | 580 | 174 | 5 |
| S | L 5900N 5400W | 16 | 0.6 | 800 | 106 | 5 |
| S | L 5900N 5450W | 12 | 0.8 | 1220 | 104 | 5 |
| S | L 5900N 5500W | 12 | 0.6 | 740 | 72 | 5 |
| S | L 5900N 5550W | 14 | 0.6 | 820 | 752 | 5 |
| S | L 5900N 5600W | 16 | 1.2 | 1000 | 58 | 5 |
| S | L 5900N 5650W | 16 | 0.6 | 1340 | 82 | 5 |
| S | L 5900N 5700W | 14 | 0.6 | 840 | 82 | 5 |
| S | L 5900N 5750W | 30 | 0.8 | 1100 | 56 | 5 |
| S | L 5900N 5800W | 72 | 0.6 | 890 | 80 | 5 |

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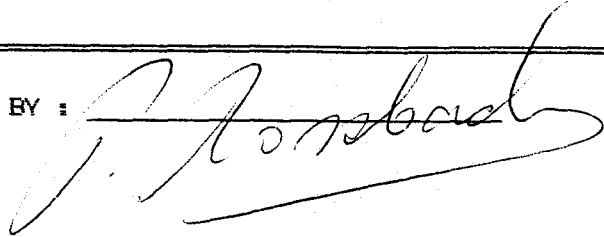
CERTIFICATE OF ANALYSIS

TO : MR. ARNIE POLLMER
RR#2, SITE 40
GABRIOLA ISL., B.C.
PROJECT :
TYPE OF ANALYSIS : GEOCHEMICAL

CERTIFICATE # : 88342
INVOICE # : 90115
DATE ENTERED : 88-11-24
FILE NAME : AP88342.G
PAGE # : 9

| PRE FIX | SAMPLE NAME | PPM Cu | PPM Ag | PPM Zn | PPM Pb | PPB Au |
|------------|----------------|-----------|-----------|-----------|-----------|-----------|
| S | L 5900N 5850W | 22 | 0.8 | 424 | 122 | 5 |
| S | L 5900N 5900W | 108 | 0.8 | 750 | 328 | 5 |
| S | L 5900N 5950W | 16 | 1.4 | 438 | 220 | 5 |
| S | L 5900N 6000W | 16 | 0.4 | 304 | 76 | 5 |
| S | L 5900N 6050W | 12 | 0.2 | 280 | 24 | 5 |
| S | L 5900N 6100W | 18 | 0.2 | 70 | 20 | 5 |
| S | L 5900N 6150W | 10 | 0.2 | 268 | 56 | 5 |
| S | L 5900N 6200W | 18 | 0.2 | 190 | 54 | 20 |
| S | L 5900N 6250W | 14 | 0.2 | 116 | 24 | 5 |
| S | L 5900N 6300W | 10 | 0.2 | 338 | 22 | 5 |
| S | L 5950N 5000EL | 16 | 0.2 | 98 | 14 | 30 |
| S | L 5950N 5000W | 14 | 0.2 | 96 | 14 | 5 |
| S | L 5950N 5050W | 28 | 0.2 | 174 | 26 | 5 |
| S | L 5950N 5100W | 16 | 0.2 | 250 | 24 | 5 |
| S | L 5950N 5200W | 22 | 0.2 | 1020 | 86 | 5 |
| S | L 5950N 5250W | 28 | 0.2 | 148 | 12 | 5 |
| S | L 5950N 5300W | 36 | 0.8 | 540 | 152 | 5 |
| S | L 5950N 5350W | 24 | 0.6 | 720 | 130 | 5 |
| S | L 5950N 5400W | 18 | 0.6 | 570 | 102 | 5 |
| S | L 5950N 5450W | 16 | 1.0 | 550 | 100 | 5 |
| S | L 5950N 5500W | 10 | 0.4 | 820 | 78 | 5 |
| S | L 6000N 4500W | 10 | 0.2 | 340 | 38 | 5 |
| S | L 6000N 4550W | 20 | 0.6 | 212 | 34 | 5 |
| S | L 6000N 4600W | 12 | 0.2 | 372 | 36 | 5 |
| S | L 6000N 4650W | 10 | 0.2 | 228 | 16 | 5 |
| S | L 6000N 4700W | 36 | 0.8 | 620 | 346 | 5 |
| S | L 6000N 4750W | 10 | 0.8 | 580 | 360 | 5 |
| S | L 6000N 4800W | 16 | 0.8 | 760 | 100 | 5 |
| S | L 6000N 4850W | 40 | 1.0 | 820 | 120 | 5 |
| S | L 6000N 4900W | 32 | 0.6 | 900 | 84 | 5 |
| S | L 6000N 4950W | 30 | 0.2 | 362 | 64 | 5 |
| S | L 6000N 5000W | 24 | 0.2 | 162 | 32 | 5 |
| S | L 6000N 5050W | 34 | 0.2 | 126 | 14 | 5 |
| S | L 6000N 5100W | 20 | 0.2 | 202 | 22 | 5 |
| S | L 6000N 5250W | 26 | 0.2 | 432 | 24 | 5 |
| S | L 6000N 5300W | 38 | 0.6 | 900 | 48 | 30 |
| S | L 6000N 5350W | 38 | 0.6 | 760 | 78 | 5 |
| S | L 6000N 5400W | 16 | 0.4 | 650 | 90 | 5 |
| S | L 6000N 5450W | 22 | 0.6 | 680 | 88 | 5 |

CERTIFIED BY :



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British Columbia, Can. V5B 3N1
Ph: (604)299-6910 Fax: 299-6252

CERTIFICATE OF ANALYSIS

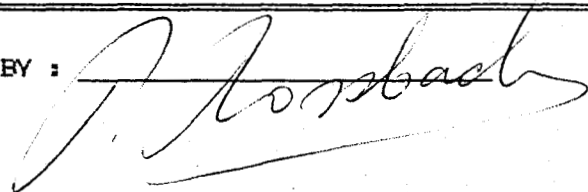
TO : MR. ARNIE POLLMER
RR#2, SITE 40
GABRIOLA ISL., B.C.

CERTIFICATE # : 88342
INVOICE # : 90115
DATE ENTERED : 88-11-24
FILE NAME : AP88342.G
PAGE # : 10

PROJECT :
TYPE OF ANALYSIS : GEOCHEMICAL

| PRE FIX | SAMPLE NAME | PPM Cu | PPM Ag | PPM Zn | PPM Pb | PPB Au |
|------------|----------------|-----------|-----------|-----------|-----------|-----------|
| S | L 6000N 5500W | 14 | 0.4 | 750 | 90 | 5 |
| S | L 6000N 5550W | 16 | 1.0 | 980 | 98 | 5 |
| S | L 6000N 5600W | 22 | 0.8 | 1520 | 102 | 5 |
| S | L 6000N 5650W | 28 | 0.6 | 1360 | 70 | 5 |
| S | L 6000N 5700W | 18 | 0.6 | 1200 | 70 | 5 |
| S | L 6000N 5750W | 22 | 1.0 | 650 | 142 | 5 |
| S | L 6000N 5800W | 10 | 0.4 | 660 | 30 | 5 |
| S | L 6000N 5850W | 8 | 0.2 | 710 | 34 | 5 |
| S | L 6000N 5900W | 8 | 0.6 | 540 | 40 | 5 |
| S | L 6000N 5950W | 22 | 1.2 | 800 | 100 | 5 |
| S | L 6000N 6000W | 14 | 0.6 | 540 | 120 | 5 |
| S | L 6000N 6050W | 12 | 0.4 | 354 | 90 | 5 |
| S | L 6000N 6100W | 16 | 0.2 | 580 | 72 | 5 |
| S | L 6000N 6150W | 48 | 1.2 | 600 | 106 | 5 |
| S | L 6000N 6200W | 12 | 0.2 | 94 | 20 | 5 |
| S | L 6000N 6250W | 8 | 0.2 | 98 | 10 | 5 |
| S | L 6000N 6300W | 8 | 0.2 | 280 | 10 | 5 |
| S | L 6050N 5000BL | 32 | 0.4 | 408 | 48 | 5 |
| S | L 6050N 5050W | 36 | 0.2 | 142 | 16 | 5 |
| S | L 6050N 5100W | 30 | 0.2 | 262 | 18 | 5 |
| S | L 6050N 5250W | 36 | 0.2 | 292 | 12 | 5 |
| S | L 6050N 5300W | 22 | 0.2 | 326 | 16 | 50 |
| S | L 6050N 5350W | 36 | 0.2 | 292 | 12 | 5 |
| S | L 6050N 5400W | 16 | 0.8 | 820 | 54 | 5 |
| S | L 6050N 5450W | 22 | 1.0 | 1380 | 114 | 5 |
| S | L 6050N 5500W | 114 | 2.6 | 3500 | 188 | 5 |
| S | L 6100N 4500W | 14 | 0.6 | 920 | 96 | 5 |
| S | L 6100N 4550W | 22 | 0.6 | 304 | 90 | 5 |
| S | L 6100N 4600W | 14 | 0.2 | 402 | 98 | 5 |
| S | L 6100N 4650W | 16 | 0.2 | 610 | 44 | 5 |
| S | L 6100N 4700W | 20 | 0.2 | 640 | 82 | 5 |
| S | L 6100N 4750W | 18 | 0.2 | 920 | 290 | 5 |
| S | L 6100N 4800W | 18 | 0.2 | 1320 | 112 | 5 |
| S | L 6100N 4850W | 12 | 0.4 | 1140 | 40 | 5 |
| S | L 6100N 4900W | 10 | 0.2 | 1100 | 94 | 5 |
| S | L 6100N 4950W | 18 | 0.2 | 306 | 64 | 5 |
| S | L 6100N 5000W | 26 | 0.2 | 344 | 64 | 5 |
| S | L 6100N 5050W | 22 | 0.2 | 348 | 24 | 30 |
| S | L 6100N 5100W | 24 | 0.2 | 244 | 32 | 5 |

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CERTIFICATE OF ANALYSIS

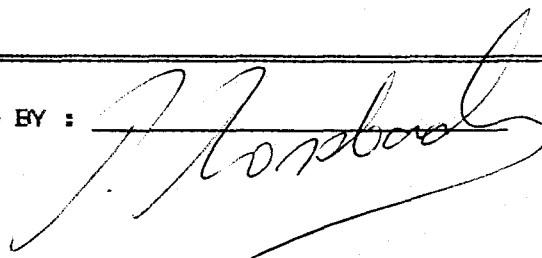
TO : MR. ARNIE POLLMER
RR#2, SITE 40
GABRIOLA ISL., B.C.

CERTIFICATE # : 88342
INVOICE # : 90115
DATE ENTERED : 88-11-24
FILE NAME : AP88342.G
PAGE # : 11

PROJECT :
TYPE OF ANALYSIS : GEOCHEMICAL

| PRE FIX | SAMPLE NAME | PPM Cu | PPM Ag | PPM Zn | PPM Pb | PPB Au |
|------------|---------------|-----------|-----------|-----------|-----------|-----------|
| S | L 6100N 5150W | 26 | 0.2 | 270 | 32 | 50 |
| S | L 6100N 5250W | 36 | 0.2 | 298 | 22 | 5 |
| S | L 6100N 5300W | 50 | 1.2 | 2300 | 92 | 5 |
| S | L 6100N 5350W | 36 | 0.8 | 2400 | 80 | 5 |
| S | L 6100N 5400W | 16 | 0.6 | 660 | 34 | 5 |
| S | L 6100N 5450W | 20 | 0.6 | 1000 | 54 | 5 |
| S | L 6100N 5500W | 10 | 0.4 | 590 | 40 | 5 |
| S | L 6100N 5550W | 12 | 0.8 | 950 | 106 | 5 |
| S | L 6100N 5600W | 20 | 1.4 | 620 | 140 | 5 |
| S | L 6100N 5650W | 12 | 0.6 | 1060 | 50 | 5 |
| S | L 6100N 5700W | 10 | 0.2 | 700 | 26 | 5 |
| S | L 6100N 5750W | 18 | 0.6 | 1120 | 114 | 5 |
| S | L 6100N 5800W | 22 | 0.6 | 1240 | 70 | 5 |
| S | L 6100N 5850W | 10 | 0.4 | 468 | 40 | 5 |
| S | L 6100N 5900W | 10 | 0.2 | 398 | 40 | 5 |
| S | L 6100N 5950W | 12 | 0.2 | 580 | 44 | 130 |
| S | L 6100N 6000W | 56 | 1.0 | 1540 | 100 | 5 |
| S | L 6100N 6050W | 16 | 0.4 | 910 | 72 | 5 |
| S | L 6100N 6100W | 26 | 2.0 | 428 | 216 | 5 |
| S | L 6100N 6150W | 16 | 0.8 | 322 | 114 | 5 |
| S | L 6100N 6200W | 22 | 0.2 | 234 | 54 | 5 |
| S | L 6100N 6250W | 16 | 0.2 | 316 | 38 | 5 |
| S | L 6100N 6300W | 16 | 0.2 | 132 | 28 | 10 |
| S | L 6200N 4500W | 12 | 0.2 | 438 | 64 | 5 |
| S | L 6200N 4550W | 26 | 0.8 | 980 | 244 | 5 |
| S | L 6200N 4600W | 8 | 0.2 | 550 | 28 | 5 |
| S | L 6200N 4650W | 10 | 0.6 | 488 | 48 | 5 |
| S | L 6200N 4700W | 22 | 1.0 | 760 | 328 | 5 |
| S | L 6200N 4750W | 10 | 0.8 | 1000 | 42 | 5 |
| S | L 6200N 4800W | 12 | 0.4 | 820 | 40 | 5 |
| S | L 6200N 4850W | 22 | 0.4 | 920 | 78 | 5 |
| S | L 6200N 4900W | 12 | 0.4 | 450 | 122 | 5 |
| S | L 6200N 4950W | 16 | 0.4 | 382 | 68 | 5 |
| S | L 6200N 5000W | 18 | 0.4 | 260 | 70 | 5 |
| S | L 6200N 5050W | 8 | 0.4 | 610 | 28 | 5 |
| S | L 6200N 5100W | 28 | 0.2 | 190 | 26 | 5 |
| S | L 6200N 5150W | 16 | 0.2 | 172 | 14 | 5 |
| S | L 6200N 5200W | 24 | 0.2 | 128 | 18 | 5 |
| S | L 6200N 5250W | | | MISSING | | |

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CERTIFICATE OF ANALYSIS

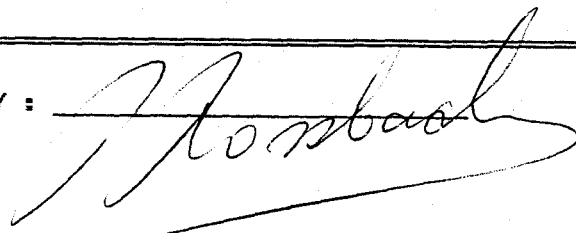
TO : MR. ARNIE POLLMER
RR#2, SITE 40
GABRIOLA ISL., B.C.

CERTIFICATE # : 88342
INVOICE # : 90115
DATE ENTERED : 88-11-24
FILE NAME : APBB342.G
PAGE # : 12

PROJECT :
TYPE OF ANALYSIS : GEOCHEMICAL

| PRE FIX | SAMPLE NAME | PPM Cu | PPM Ag | PPM Zn | PPM Pb | PPB Au | |
|------------|---------------|-----------|-----------|-----------|-----------|-----------|--|
| S | L 6200N 5300W | MISSING | | | | | |
| S | L 6200N 5350W | MISSING | | | | | |
| S | L 6200N 5400W | 20 | 1.4 | 850 | 254 | 5 | |
| S | L 6200N 5450W | 14 | 0.8 | 1320 | 100 | 5 | |
| S | L 6200N 5500W | 8 | 0.6 | 710 | 50 | 5 | |
| S | L 6200N 5550W | 6 | 0.4 | 1100 | 76 | 5 | |
| S | L 6200N 5600W | 4 | 0.2 | 472 | 46 | 5 | |
| S | L 6200N 5650W | 12 | 0.6 | 860 | 94 | 5 | |
| S | L 6200N 5700W | 12 | 0.2 | 1140 | 64 | 10 | |
| S | L 6200N 5750W | 12 | 1.0 | 760 | 82 | 5 | |
| S | L 6200N 5800W | 10 | 0.8 | 830 | 50 | 5 | |
| S | L 6200N 5850W | 12 | 1.0 | 1020 | 56 | 5 | |
| S | L 6200N 5900W | 12 | 0.6 | 432 | 40 | 5 | |
| S | L 6200N 5950W | 28 | 0.8 | 1000 | 56 | 5 | |
| S | L 6200N 6000W | 10 | 0.4 | 800 | 46 | 5 | |
| S | L 6200N 6050W | 14 | 0.4 | 462 | 60 | 5 | |
| S | L 6200N 6100W | 10 | 0.4 | 1060 | 42 | 5 | |
| S | L 6200N 6150W | 22 | 2.4 | 288 | 146 | 20 | |
| S | L 6200N 6200W | 12 | 0.8 | 440 | 30 | 5 | |
| S | L 6200N 6250W | 26 | 0.4 | 474 | 70 | 5 | |
| S | L 6200N 6300W | 24 | 1.2 | 280 | 104 | 5 | |
| S | L 5500N 5550W | 16 | 0.4 | 430 | 78 | 5 | |
| S | L 5500N 5600W | 12 | 0.4 | 244 | 38 | 5 | |
| S | L 5500N 5650W | 8 | 0.2 | 108 | 26 | 5 | |
| S | L 5500N 5700W | 12 | 0.2 | 124 | 18 | 5 | |
| S | L 5500N 5750W | 14 | 0.4 | 210 | 16 | 5 | |
| S | L 5550N 5000W | 10 | 0.4 | 206 | 18 | 5 | |
| S | L 5550N 5100W | 24 | 0.2 | 202 | 16 | 5 | |
| S | L 5550N 5150W | 18 | 0.4 | 560 | 90 | 5 | |
| S | L 5550N 5200W | 42 | 0.2 | 570 | 60 | 10 | |
| S | L 5550N 5250W | 12 | 0.2 | 530 | 32 | 5 | |
| S | L 5550N 5300W | 22 | 0.4 | 510 | 26 | 5 | |
| S | L 5550N 5350W | 18 | 0.4 | 412 | 24 | 5 | |
| S | L 5550N 5400W | 12 | 0.4 | 410 | 20 | 5 | |
| S | L 5550N 5450W | 12 | 0.2 | 82 | 18 | 5 | |
| S | L 5550N 5500W | 10 | 0.2 | 370 | 90 | 5 | |

CERTIFIED BY :



STATEMENT OF QUALIFICATION

I Arnold R. POLLMER of RR#2 Site 40, GABRIOLA ISLAND, B.C. do hereby certify that;

I am a consulting geologist having 16 years of experience as a geologist in the mining industry. I have worked as a consultant for the past 4 years, primarily on gold-related projects.

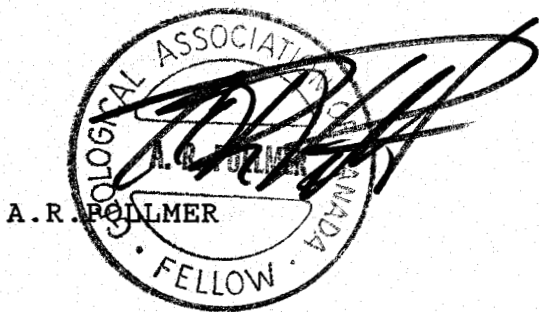
I am a graduate of Wisconsin State University (1972), with a Hon B.Sc in geology.

I have worked as Chief Geologist and Exploration Manager for Noranda Mines Ltd, Boss Mountain Division and Brenda Mines Ltd. from 1973 to 1982.

I worked in the capacity of Project Coordinator in charge of property and project feasibility study for Lac Minerals Ltd., during 1982 to 1984.

I have worked as a coal geologist in the position of Senior Mine Geologist for Quintette Coal Mines Ltd, Tumbler Ridge during 1984 to 1986

I have been a Fellow with the Geological Association of Canada for the past seven years.



GEOLOGICAL BRANCH
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TOWER HILL MINES LTD.
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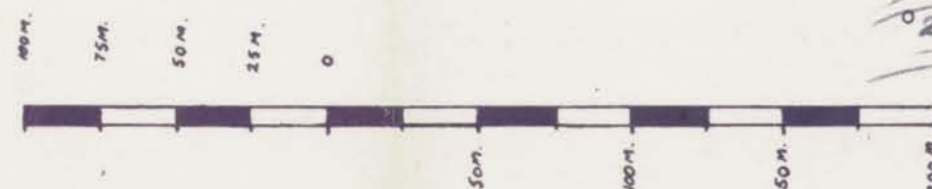
Ag Soil Geochem

DATE:
Nov. 1988

FIG 4

SCALE:
1:2500

DRAWN BY: RAY DUBOIS



GEOLOGICAL BRANCH
ASSESSMENT REPORT

18,211

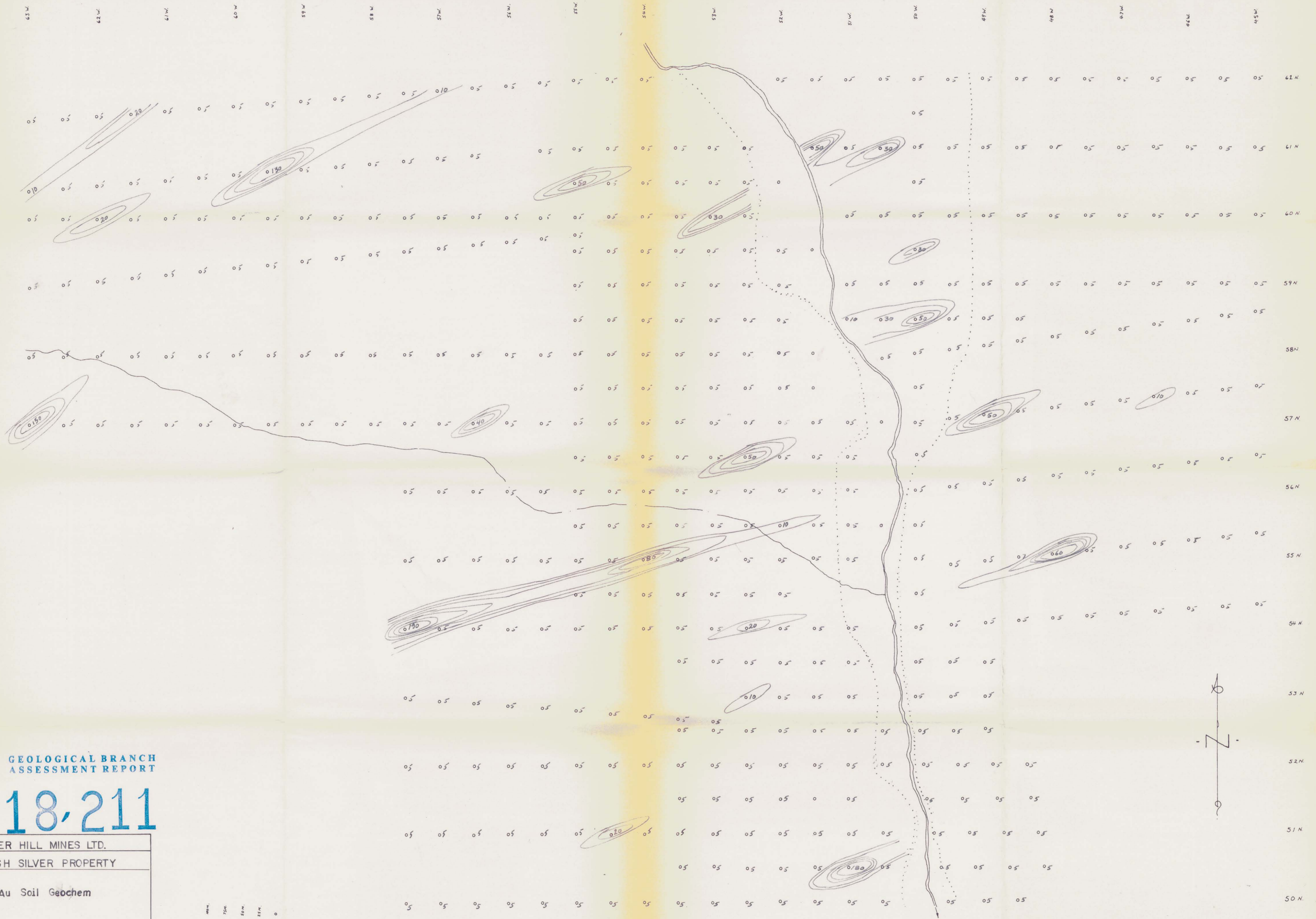
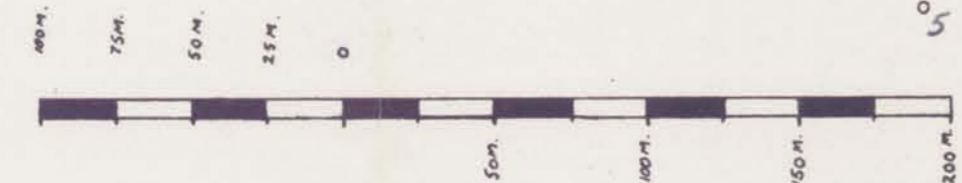
TOWER HILL MINES LTD.

SIWASH SILVER PROPERTY

Au Soil Geochem

DATE: Nov. 1988 FIG # 5 SCALE: 1:2500

DRAWN BY: R.W. BILGUIS



ROSSBACHER LABORATORY LTD.
CERTIFICATE OF ANALYSIS

2225 S. Springer Ave., Burnaby,
 British Columbia, Can. V5B 3R1
 Ph: (604) 299-6910 Fax: 299-6252

TO : MR. ARNIE POLLMER
 RR#2, SITE 40
 GABRIOLA ISL., B.C.

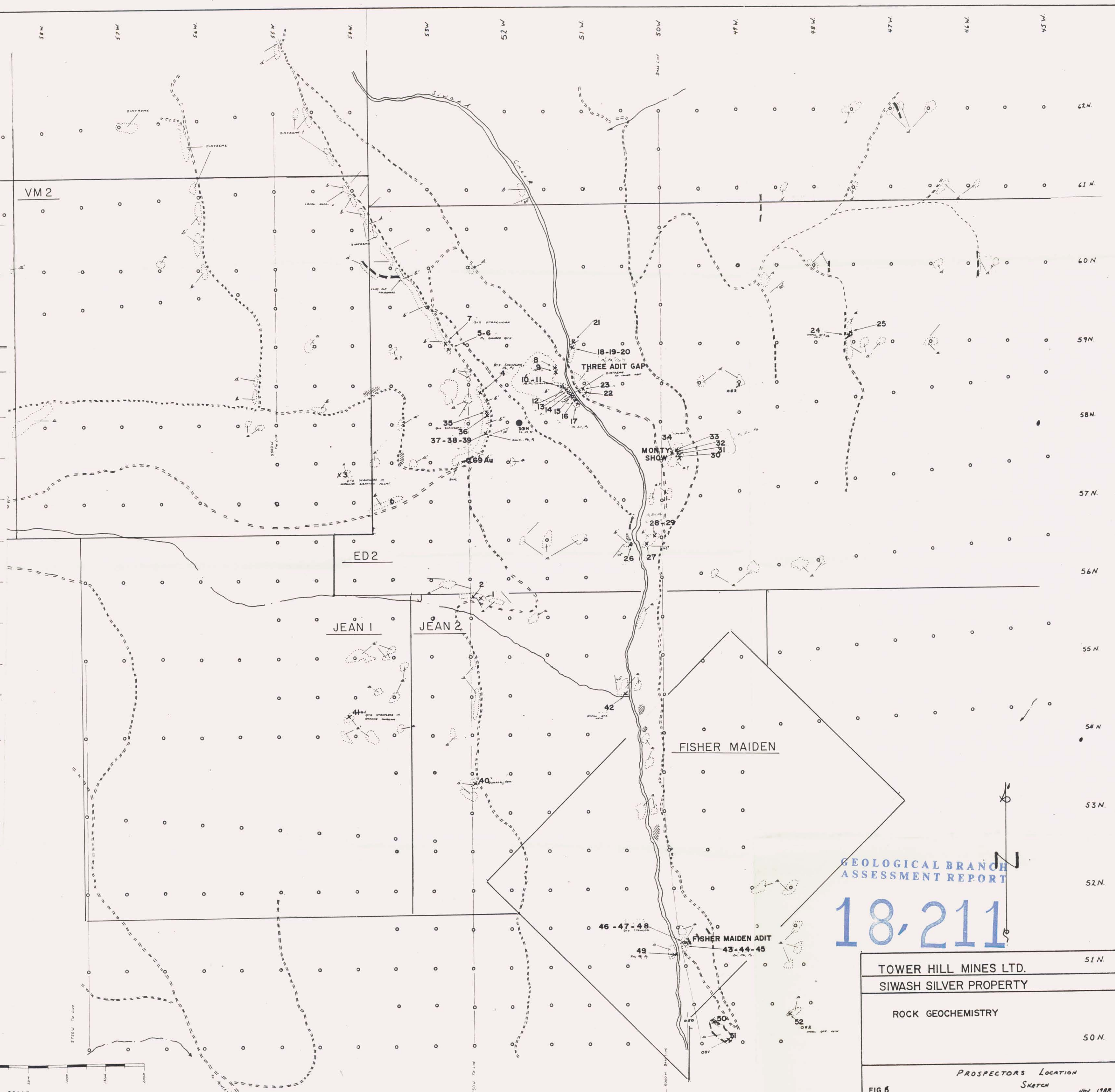
CERTIFICATE # : 88342
 INVOICE # : 90115
 DATE ENTERED : 88-11-24
 FILE NAME : APBB342.G
 PAGE # : 13

| PRE FIX | SAMPLE NAME | PPM Cu | PPM Ag | PPM Zn | PPM Pb | PPM Au |
|---------|-------------|--------|--------|--------|--------|--------|
| A | SMH 001 | 6 | 0.2 | 276 | 12 | 5 |
| A | SMH 002 | 58 | 0.4 | 620 | 130 | 50 |
| A | SMH 003 | 30 | 7.4 | 142 | 650 | 90 |
| A | SMH 004 | 18 | 2.8 | 80 | 5600 | 5 |
| A | SMH 005 | 12 | 1.4 | 46 | 214 | 5 |
| A | SMH 006 | 44 | 11.6 | 66 | 870 | 20 |
| A | SMH 007 | 16 | 8.6 | 88 | 110 | 5 |
| A | SMH 008 | 38 | 8.6 | 170 | 1240 | 5 |
| A | SMH 009 | 114 | 3.8 | 224 | 1860 | 5 |
| A | SMH 010 | 320 | 7.6 | 476 | 3300 | 1420 |
| A | SMH 011 | 740 | 28.0 | 436 | 1980 | 40 |
| A | SMH 012 | 22 | 2.6 | 36 | 344 | 5 |
| A | SMH 013 | 212 | 20.2 | 258 | 1560 | 30 |
| A | SMH 014 | 32 | 1.2 | 98 | 66 | 5 |
| A | SMH 015 | 78 | 11.4 | 198 | 282 | 10 |
| A | SMH 016 | 238 | 12.4 | 580 | 1200 | 40 |
| A | SMH 017 | 560 | 7.8 | 10000 | 550 | 140 |
| A | SMH 018 | 7600 | 8.6 | 780 | 260 | 20 |
| A | SMH 019 | 7800 | 8.8 | 1780 | 332 | 30 |
| A | SMH 020 | 102 | 3.2 | 270 | 232 | 5 |
| A | SMH 021 | 20 | 0.8 | 428 | 10 | 5 |
| A | SMH 022 | 84 | 26.0 | 408 | 3400 | 90 |
| A | SMH 023 | 16 | 6.4 | 22 | 600 | 100 |
| A | SMH 024 | 1880 | 100.0 | 220 | 10000 | 320 |
| A | SMH 025 | 24 | 7.2 | 114 | 990 | 10 |
| A | SMH 026 | 12 | 6.6 | 276 | 940 | 20 |
| A | SMH 027 | 156 | 10.4 | 3100 | 1880 | 270 |
| A | SMH 028 | 50 | 8.2 | 3000 | 254 | 590 |
| A | SMH 029 | 230 | 10.8 | 10000 | 610 | 150 |
| A | SMH 030 | 820 | 7.4 | 10000 | 62 | 180 |
| A | SMH 031 | 590 | 8.6 | 10000 | 244 | 90 |
| A | SMH 032 | 340 | 7.6 | 10000 | 290 | 40 |
| A | SMH 033 | 168 | 6.8 | 10000 | 750 | 40 |
| A | SMH 034 | 32 | 3.6 | 3350 | 80 | 30 |
| A | SMH 035 | 16 | 1.0 | 570 | 86 | 5 |
| A | SMH 036 | 760 | 15.4 | 800 | 124 | 70 |
| A | SMH 037 | 170 | 6.2 | 462 | 1860 | 110 |
| A | SMH 038 | 70 | 5.2 | 314 | 560 | 10 |
| A | SMH 039 | 44 | 13.2 | 300 | 2400 | 30 |
| A | SMH 040 | 190 | 13.8 | 1160 | 1080 | 380 |
| A | SMH 041 | 38 | 1.2 | 510 | 446 | 470 |
| A | SMH 042 | 8 | 0.2 | 228 | 100 | 5 |
| A | SMH 043 | 3720 | 31.2 | 10000 | 388 | 11400 |
| A | SMH 044 | 1800 | 21.4 | 10000 | 332 | 8300 |
| A | SMH 045 | 970 | 5.0 | 10000 | 110 | 420 |
| A | SMH 046 | 830 | 6.4 | 6300 | 2340 | 80 |
| A | SMH 047 | 388 | 16.2 | 2850 | 5300 | 700 |
| A | SMH 048 | 1020 | 16.8 | 10000 | 1720 | 1260 |
| A | SMH 049 | 940 | 100.0 | 4300 | 4500 | 540 |
| A | SMH 050 | 6 | 2.0 | 152 | 82 | 10 |
| A | SMH 051 | 8800 | 100.0 | 5300 | 5200 | 170 |
| A | SMH 052 | 32 | 2.4 | 110 | 154 | 5 |
| A | SMH 053 | 28 | 2.8 | 72 | 154 | 5 |

SYMBOLS

- OUTCROP
- ROCK SAMPLE LOCATION + NUMBER
- GRID STATION
- ADIT
- OLD TRENCH
- OLD DIAMOND DRILL HOLE LOCATION
- ATTITUDE OF DOMINANT FRACTURES, STRUCTURES + VEINS.
- ROADWAY: KNOWN, ASSUMED.

SCALE 1 : 2500
 DRAWN BY: Ann Blagovir



GEOLOGICAL BRANCH
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18,211

| | |
|-----------------------------|-------|
| TOWER HILL MINES LTD. | 51 N. |
| SIWASH SILVER PROPERTY | |
| ROCK GEOCHEMISTRY | |
| PROSPECTORS LOCATION SKETCH | 50 N. |

FIG 6 Nov. 1988



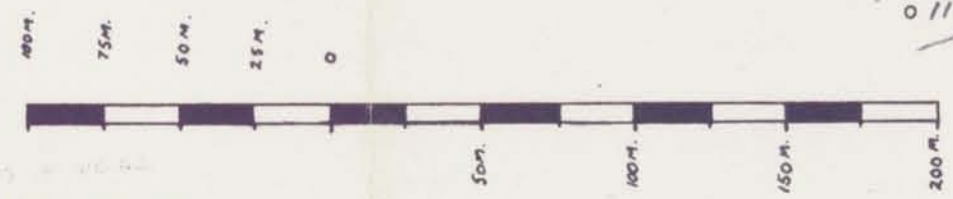
GEOLOGICAL BRANCH
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TOWER HILL MINES LTD.

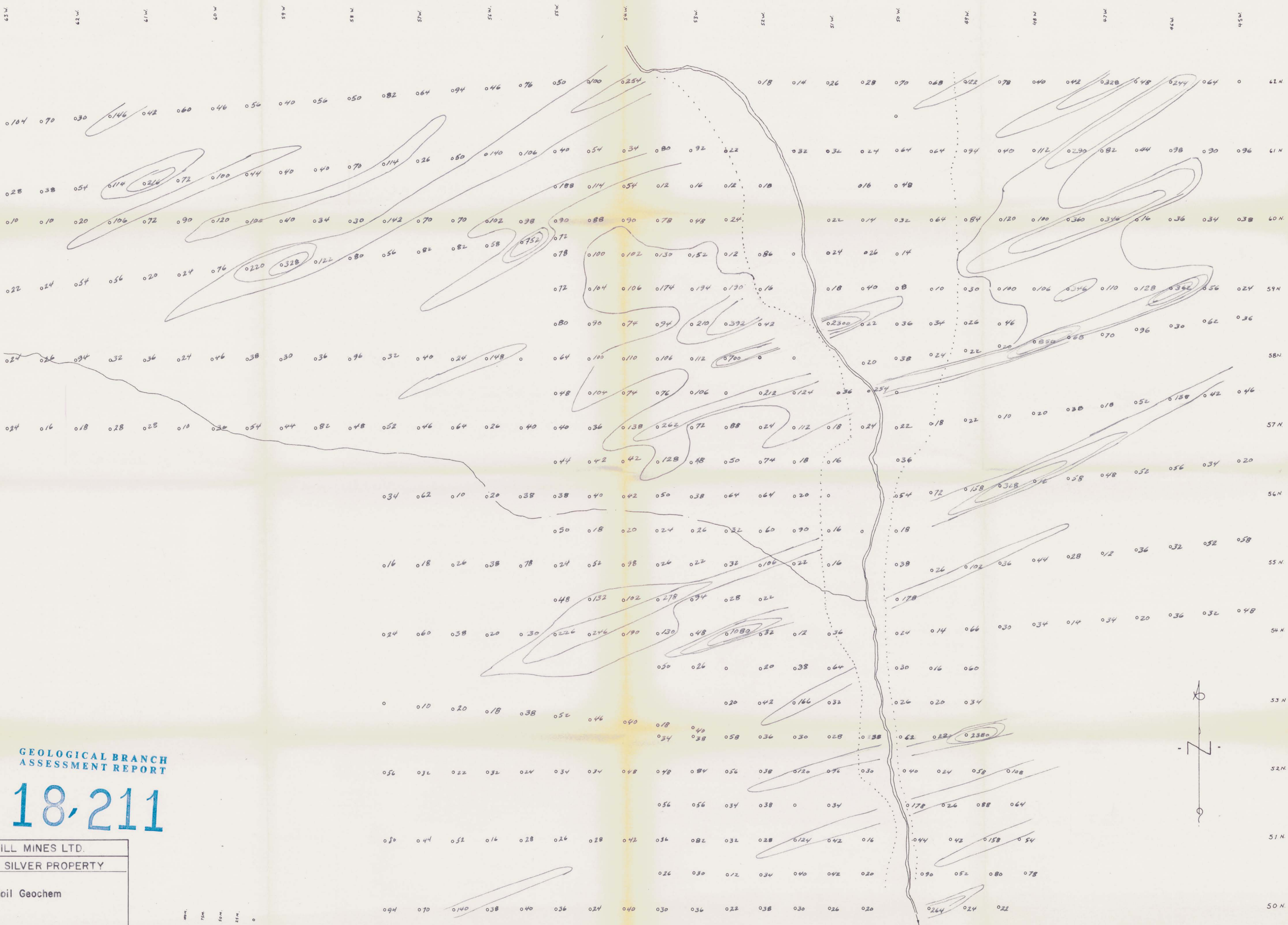
SIWASH SILVER PROPERTY

Zn Soil Geochem



DATE: Nov. 1988 FIG #1 SCALE: 1:2500

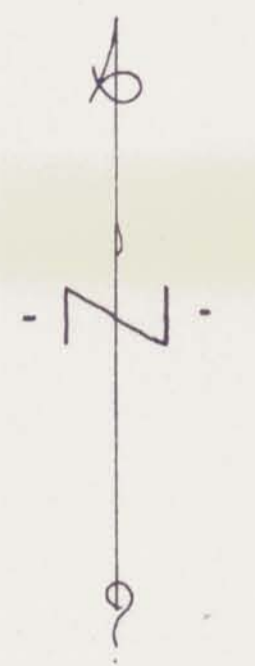
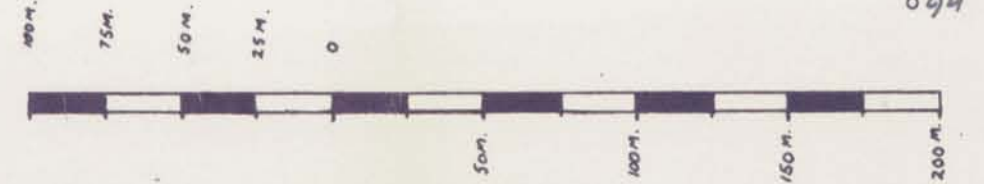
DRAWN BY: R.W. BIRQUIST

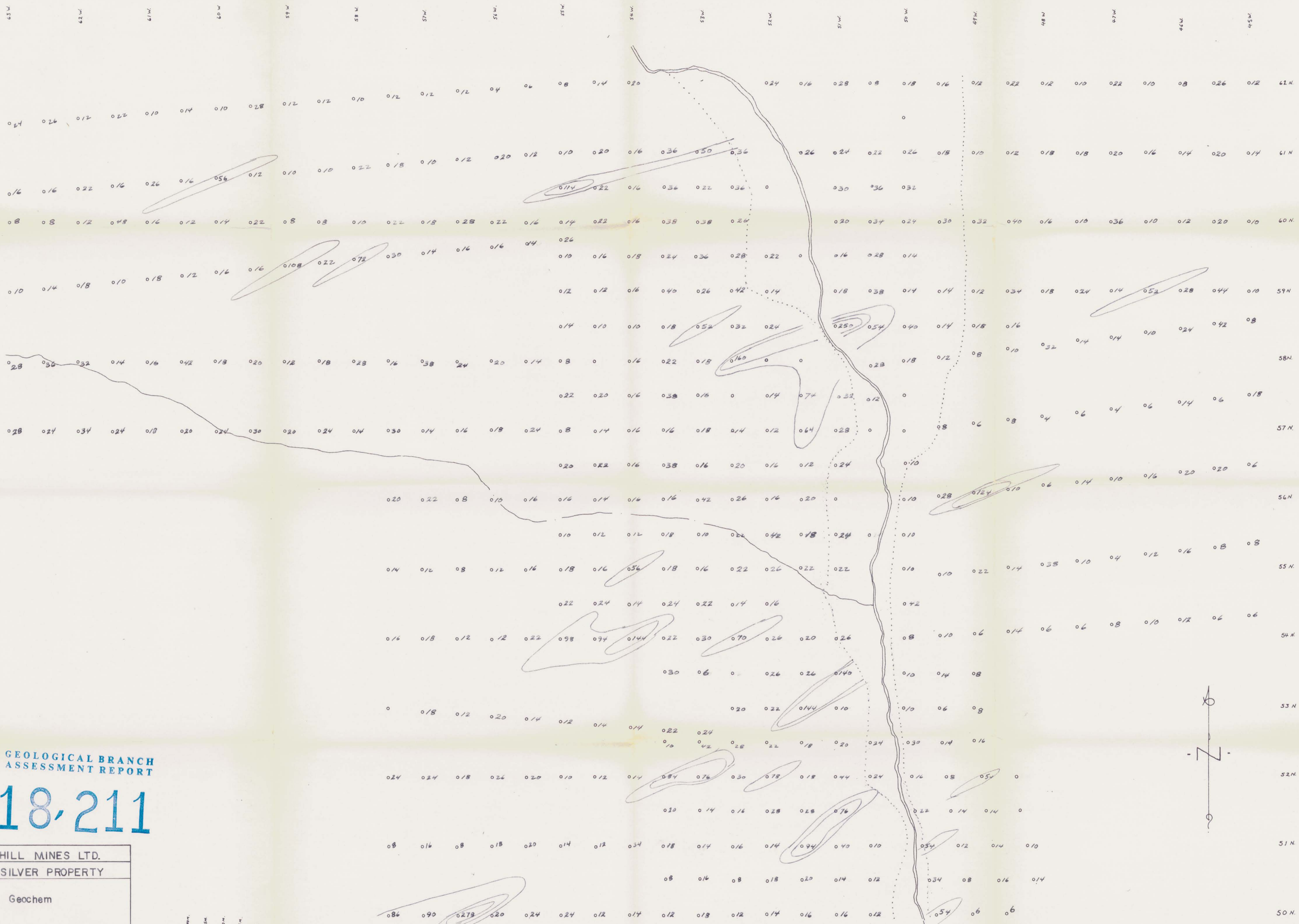


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| | |
|------------------------|------------------------|
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| Pb Soil Geochem | |
| DATE: Nov. 1988 | FIG #2 |
| SCALE: 1:2500 | DRAWN BY: R.W. DIEHART |



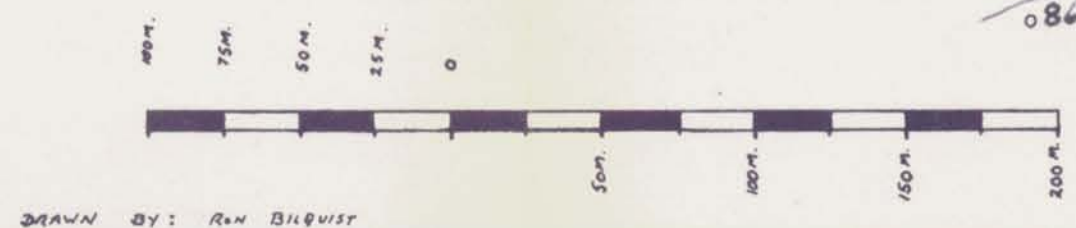


GEOLOGICAL BRANCH
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SIWASH SILVER PROPERTY
Cu Soil Geochem

DATE: Nov. 1988 FIG #3 SCALE: 1:2500



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