

9424

PART 2

OF 2

81-#665
-9424

BRENDA MINES LTD.
EXPLORATION GROUP

REPORT on D.D.H. - SS-26-81

SIWASH SILVER MINERAL PROPERTY

Latitude 49° 49', Longitude 120° 20'

Similkameen Mining Division

N.T.S. 92H/16

Paul C. Bankes

August, 1981

Part 2
of 2

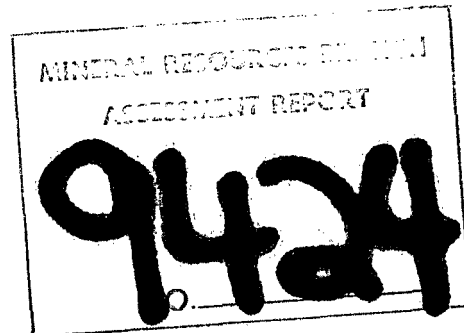


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I INTRODUCTION

a) History of Property

The Siwash Creek area has been prospected since the early 1900's. Several adits have been driven into rock faces along creek banks and numerous hand trenches, following mineralized leads, have been excavated throughout the valley. Evidence of old placer workings is also apparent along the banks of Siwash Creek.

During the 1960's, mineral exploration was carried out in the area by several companies including Quality Exploration Corporation Ltd., Cyprus Exploration Corporation Ltd. and Diana Explorations Ltd. More recent work on the property was executed by E. Mullin of Princeton, B.C. and D.E. Agur of Summerland, B.C. The holdings of these persons were optioned to Brenda Mines Ltd. in April 1979 for further exploratory work.

b) Topography and Vegetation

The property occupies the deep, narrow, terraced Siwash Creek valley and its surrounding plateau lands. Major tributaries include Tepee, Galena and Gavin Creeks flowing into the main valley from the east and Saskat Creek entering from the west. All of these creeks occupy the base of very steep, narrow valleys. Vegetation consists generally of well spaced stands of jackpine, fir and spruce with a lush, grassy undergrowth. Some of the more immature forests consist of tight growths of scrawny jackpine. Tag alders flourish in swampy areas within the plateau and along steep valley sides.

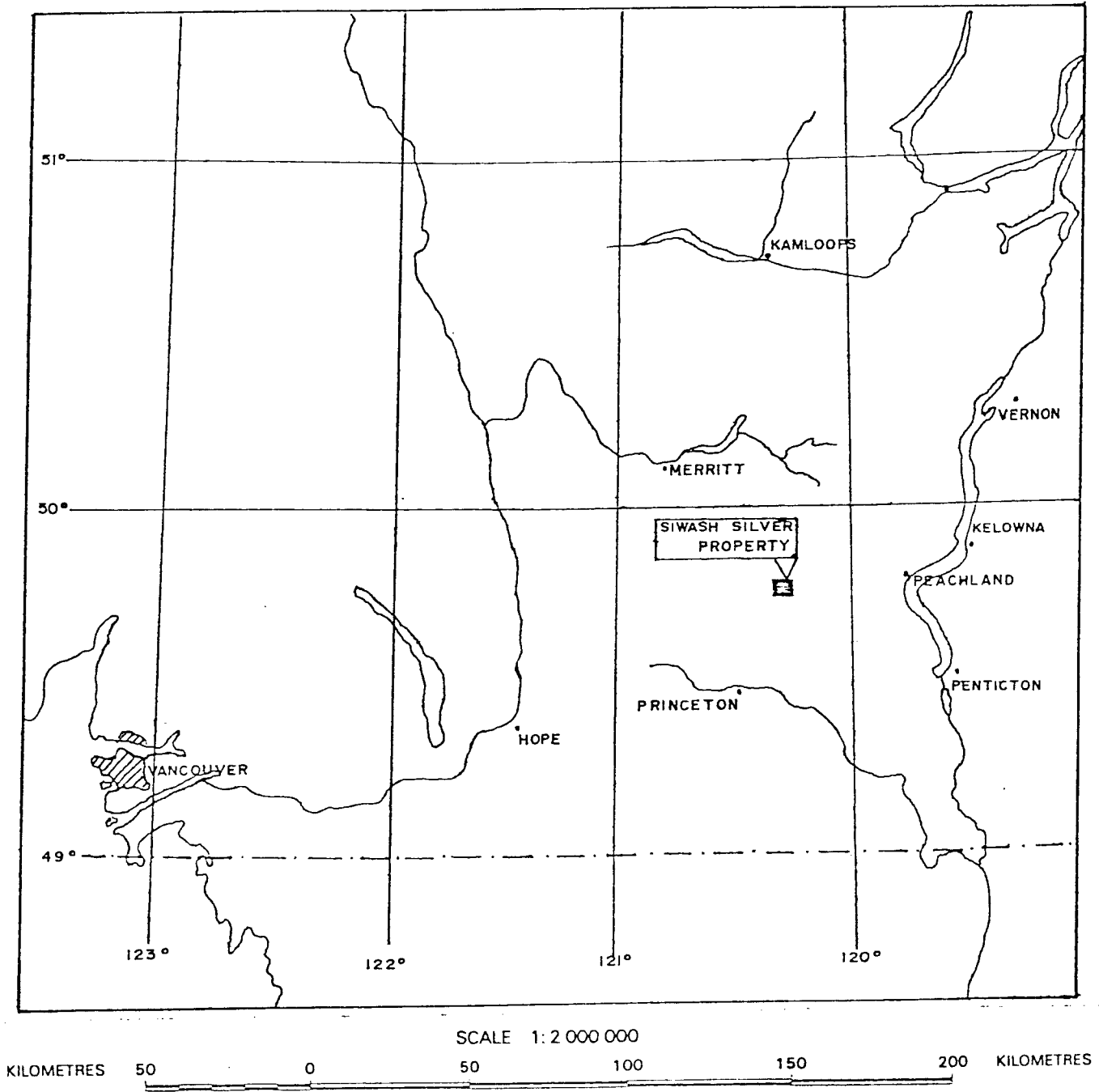
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II PROPERTY DESCRIPTION

a) Location and Access

The Siwash Silver Property is located 38 air kilometres northeast of Princeton, B.C. The claims are situated along Siwash Creek, west of Tepee Lakes and east of Missezula Lake. There are presently two access roads to the property. One is via an 8 kilometre forestry access road which branches off of the Summerland-Princeton road, north of Osprey Lake. The other branches off of the Trout Creek logging road, 60 kilometres west of Peachland, B.C.

Figure 1 - Location Map

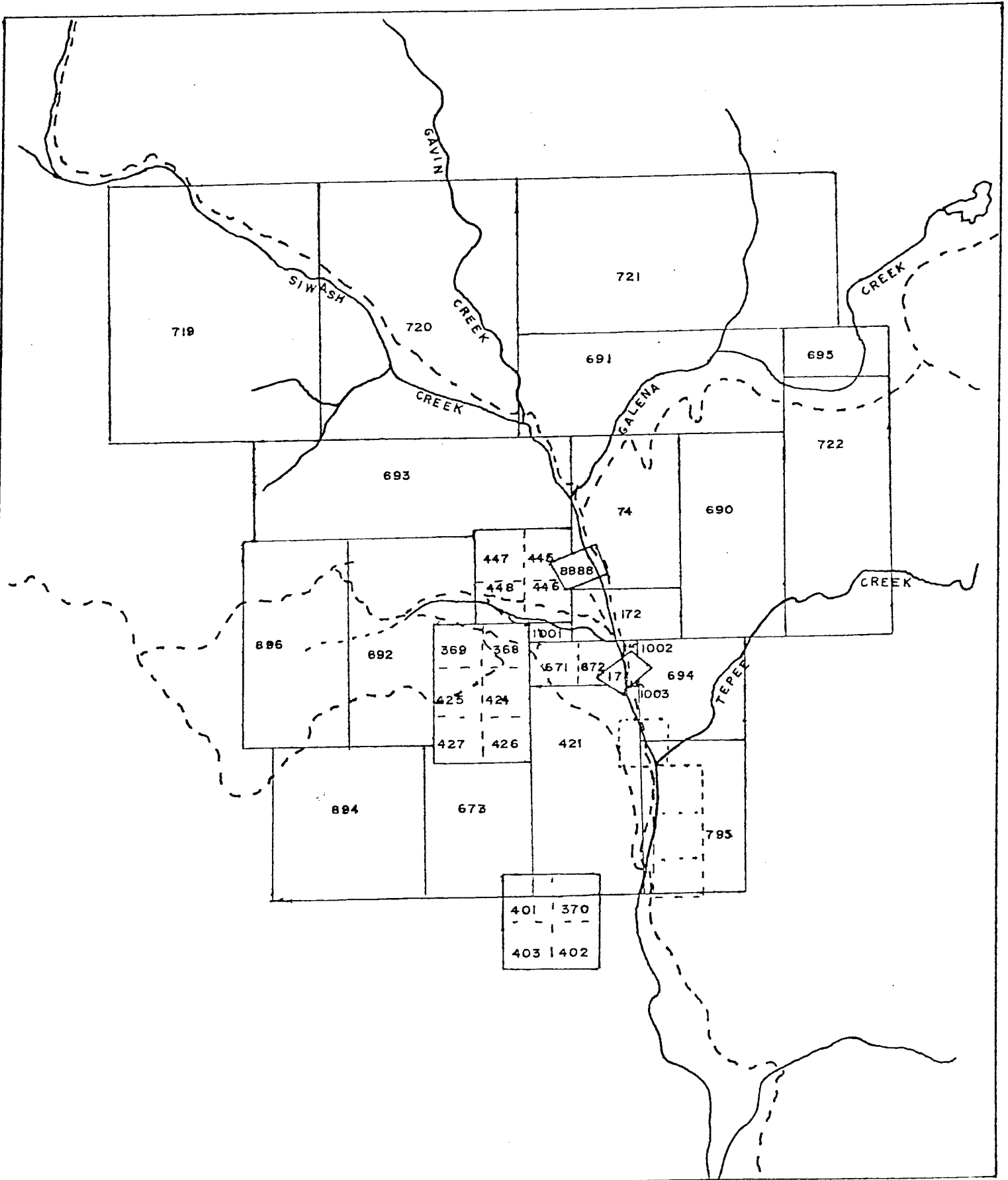


b) Claim Inventory

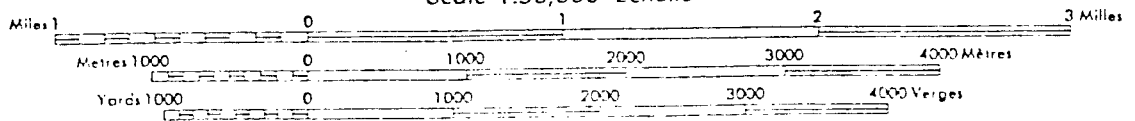
<u>Claim Name</u>	<u>Record No.</u>	<u>Units</u>	<u>Record Date</u>	<u>Assessment Date</u>
ED	74	6	June 29/76	June 29/87
ED # 2	172	2	Nov. 23/76	Nov. 23/87
Saskat 1	368	1	June 29/78	June 29/87
Saskat 2	369	1	June 29/78	June 29/87
June 1	370	1	June 29/78	June 29/86
Skye 1	401	1	Aug. 15/78	Aug. 15/86
Skye 2	402	1	Aug. 15/78	Aug. 15/86
Skye 3	403	1	Aug. 15/78	Aug. 15/86
June 2	421	8	Sept. 1/78	Sept. 1/86
Pat 1	424	1	Sept. 14/78	Sept. 14/87
Pat 2	425	1	Sept. 14/78	Sept. 14/87
Pat 3	426	1	Sept. 14/78	Sept. 14/87
Pat 4	427	1	Sept. 14/78	Sept. 14/87
V.M. 1	445	1	Oct. 5/78	Oct. 5/87
V.M. 2	446	1	Oct. 5/78	Oct. 5/87
V.M. 3	447	1	Oct. 5/78	Oct. 5/87
V.M. 4	448	1	Oct. 5/78	Oct. 5/77
Jean 1	671	1	July 26/79	July 26/87
Jean 2	672	1	July 26/79	July 26/87
Hawk	673	6	July 26/79	July 26/86
Nanci P-1	690	8	Aug. 13/79	Aug. 13/87
Nanci P-2	691	10	Aug. 13/79	Aug. 13/84
Skylab	692	12	Aug. 13/79	Aug. 13/83
B & B	693	12	Aug. 13/79	Aug. 13/84
Herdel	694	4	Aug. 13/79	Aug. 13/86
Teepee	695	2	Aug. 13/79	Aug. 13/84
ARP	719	20	Sept. 13/79	Sept. 13/82
Fergito-Allendo 1	720	20	Sept. 13/79	Sept. 13/83
Fergito-Allendo 2	721	18	Sept. 13/79	Sept. 13/84
Timbo-Tavish	722	10	Sept. 13/79	Sept. 13/82
Charlie	795	6	Oct. 25/79	Oct. 25/85
Bisbee	894	9	Dec. 12/79	Dec. 12/83
Bingham	896	8	Dec. 12/79	Dec. 12/83
Peterson	8888			Feb. 6/87
Fissure Maiden	171 (Crown Grant)			Nov. 8/86
SS 1 (fraction)	1001	frac.	Apr. 30/80	Apr. 30/81
SS 2 (fraction)	1002	frac.	Apr. 30/80	Apr. 30/81
SS 3 (fraction)	1003	frac.	Apr. 30/80	Apr. 30/81

All claims are located in the Similkameen Mining Division.

Figure 2 - Claim Map



Scale 1:50,000 Échelle



III REGIONAL SETTING

The Siwash Silver mineral property is underlain by granite, quartz-eye porphyry and quartz-feldspar porphyry related to the Otter Intrusions of Upper Cretaceous-Early Tertiary age. These units comprise the "Siwash Creek Body" referred to by Rice (1960). This body has intruded granodiorites of the Coast Intrusions, which are Jurassic in age. Older Nicola volcanics of Triassic age occur in the extreme northwest of the mineral property.

Surface mineralization occurring throughout the mineral property is hosted in:

1. Thin veinlets and brecciated areas within zones of intense chloritization and silicification.
2. Fractures crosscutting zones of intense alteration.
3. Quartz veins.

In order of abundance, the following mineralization occurs within the various host environments described; pyrite, specular hematite with minor amounts of sphalerite, galena, chalcopyrite, tetrahedrite, bornite and gold. Mineralization is not homogeneous throughout the area, but varies from one location to the next with respect to the kind of mineralization incurred and the concentrations thereof.

IV DIAMOND DRILLING

a) Introduction

Maitland Explorations Ltd. was contracted to drill 1,050 metres of BQ core on the Siwash Silver property between July 4th and July 29th, 1981. Hole SS-26-81 was drilled into a small Cu, Zn soil anomaly along the northern margin of the B & B claim block.

b) Hole Description

Commenced: July 21, 1981	Completed: July 23, 1981
Location: N-10+00W, 4+00S	Elevation: 5,100 feet
Azimuth: 0°	Angle: 65°
Depth: 102 metres (335 feet)	

<u>Lithologies</u>	<u>Alteration</u>	<u>Mineralization</u>
Feldspar porphyry	Weak phyllic alteration	No mineralization other than pyrite was encountered

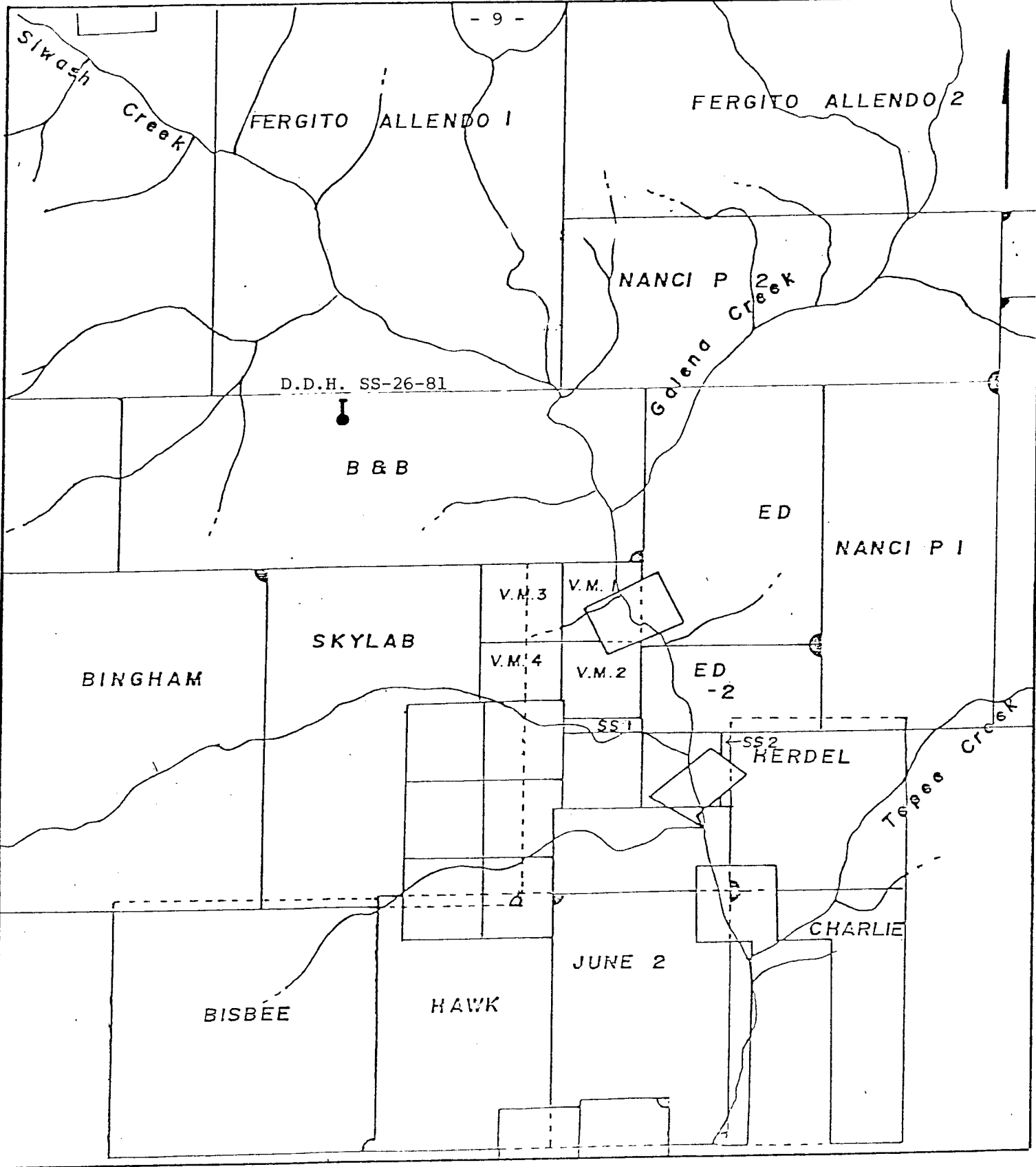
c) Treatment of Results

A detailed diamond drill hole record and graphic drill hole section for SS-26-81 have been included in the appendix of this report. The core was logged at one metre intervals and is presently being stored at the Brenda Mine site.

V CONCLUSIONS

The area in which D.D.H. SS-26-81 was placed has substantial overburden cover (28.5m) and the quartz feldspar porphyry intersected is unmineralized except for minor pyrite and specular hematite. Therefore, this rock unit appears unrelated to the Cu, Zn soil anomalies found in the hole area. The intersection

of the quartz feldspar porphyry unit verifies that this unit, which occurs within the central region of the property, extends further northwest than surface mapping had indicated. Only minor potassic, phyllic and argillic alteration was identified.



D.D.H. LOCATION MAP

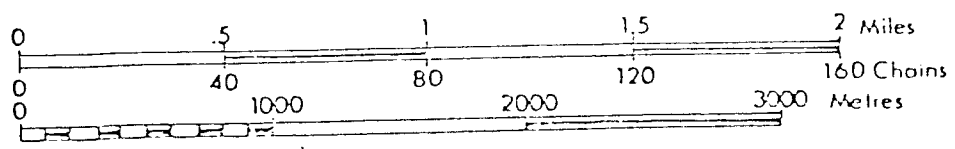


Figure 3

APPENDIX I

PREPARATION for ROCK SAMPLES and DRILL CORES

Each core is given a sample number 1, 2, 3 etc.

Preparation:

- a) Jaw crush into sample tray.
- b) Mix 2x and split sample in half using large riffle. Transfer each half to a drying tray and label A & B.
- c) Dry sample for at least 1 hour.
- d) Cool and riffle mix 3x, then split down to pot grinding size.
- e) Pot grind sample A for 2½ minutes and transfer to a number sample packet.
- f) Clean all apparatus thoroughly after each sample.
- g) Retain sample B as a coarse reject sample (pot grind every 10th B sample and run as normal).

Note: Rock samples are prepared in a similar manner depending upon size.

ANALYSIS by A.A. for Cu, Pb, Zn, Ag, and Mo.

1. Weigh 2.00 GM on the top pan balance into a 150 ML beaker (check that beaker No. is the same as written on work sheet).
2. Add 15 MLS Nitric Acid, cover with watchglass and heat on low heat until brown Nitrous fumes are gone.
3. Remove beakers from hot plate, cool for 5 minutes.
4. Add 10 ML Hydrochloric Acid. Place on hot plate. When all brown Nitrous fumes gone, remove watchglasses and take just to dryness on a low plate.
5. Remove from plate, cool, add 20 MLS distilled water, 5 MLS Conc. Hydrochloric Acid and boil salts into solution.
6. Cool in water bath, when cold transfer to 100 MLS Volumetric flask, add 1 MLS Superfloc solution and dilute to 100 MLS with distilled water.
7. Mix thoroughly and then transfer to original beaker.
8. When all samples ready, transfer to A.A. room for reading.
9. If Mo is required, 10.00 MLS of this solution is transferred to a test tube and 1.00 MLS of ALC₃ solution added.

APPENDIX II

LIST of ABBREVIATIONS

alt	- alteration	mn	- manganese
andes	- andesite	mod	- moderate
arg	- argillic	Mo	- molybdenite
assoc	- associated	ntwk	- network
bio	- biotite	O.B.	- overburden
born	- bornite	oz.	- ounces
bx	- breccia	Pb	- lead
cc	- calcite	phenos	- phenocrysts
chlor	- chlorite, chloritic	phyl	- phyllic
cm	- centimetre	porphy	- porphyry
cpy	- chalcopyrite	prop	- propylitic
Cu	- copper	py	- pyrite
diss/ dissem	- disseminated	Qtz	- quartz
fracs	- fractures	recov	- recovery
frags	- fragments	rk	- rock
gal	- galena	sev	- several
G.D.	- granodiorite	sil	- siliceous, silicified
g/mt	- grams per metric tonne	spec	- specular hematite
hb	- hornblende	sph	- sphalerite
hem	- hematite	unalt	- unaltered
kaol	- kaolinite	vn	- vein
k-spar	- potassium feldspar	vnlt	- veinlet
lim	- limonite	w	- with
m	- metre	xen	- xenolith
mag	- magnetite		
mlzn	- mineralization		

APPENDIX III

Property Siwash Silver

D.D.H. No. SS-26-81

Dip -65°

D.D.H. Grid Location _____

Elevation 5,100 feet

Azimuth 0°

Core Size BQ Total Depth 102 metres (335 feet)

McElroy

METRES	ROCK TYPE (core description)	ALTERATION & STRUCTURE (associated minerals)	MINERALIZATION	MLZN	RECOV. %
0 - 28.5	Overburden				
28.5 - 29	Quartz feldspar porphyry with biotite	Very weak phyllic alt. with weak chlorite	Feldspar phenos vary from ½ cm to 3 cm long. Minor limonite on fractures.		
29 - 30			Same as above. Texture appears vuggy. Chlorite slip along 5°.		75
30 - 31	Quartz feldspar porphyry w/ minor biotite.	Very weak phyll alt w/ weak chlor.	Highly fractured core - minor limonite staining.		40
31 - 32			Gauge zone w/ rounded fragments.		30
32 - 33			Gauge zone up to 32.5 m w/ frags angular to sub-angular. Broken core.		85
33 - 34	Qtz-k-spar porph w/ bio.	Very weak phyll alt w/ weak chlor.	Bio increases at end. Fractured core.		85
34 - 35			Gauge zone w/ subangular to subrounded frags.		60
35 - 36					60
36 - 37					60
37 - 38	Qtz-k-spar porph.	Very weak phyll alt w/ weak chlor.	Fractured core. Chlor slips along 30° & 60°. Minor dissem, weathered py.		
38 - 39			Chlor along 5°.		
39 - 40			Minor dissem py. Chlor frac along 30° & 60°.		
40 - 41					
41 - 42			Chlor frac parallel to core. Minor chlor & epidote as replacement & around phenox.		
42 - 43			Same as above. 30 cm gauge zone.		

METRES	ROCK TYPE (rock description)	ALTERATION & STRUCTURE (associated minerals)	MINERALIZATION	MLZN	RECOV.	
43 - 44	Qtz-k-spar porph.	Very weak phyll alt w/ weak chlor.	Chlor frac along 10°, 20° & 60°. Minor chlor & epid as replacement & around phenos. Minor dissem py.			
44 - 45			Minor chlor & epid as replacement & around phenos. Minor dissem py.			
45 - 46			Small gauge zone. Minor dissem py.			
46 - 47			Chlor slips along 30° & 60°. Minor dissem py.			
47 - 48		Very weak phyll alt w/ chlor.	Chlor slips along 30° & 60°. Minor dissem, weathered py.			
48 - 49		Same as above. Chlor increases slightly.	Chlor slips along 60°.			
49 - 50		Very weak phyll alt w/ increased chlor & minor epid.				
50 - 51			Increased, weathered py.			
51 - 52			Narrow gauge zone.			
52 - 53			Chlor slips along 60°. Minor bio.			
53 - 54			40 cm gauge zone. Minor bio. Minor dissem, weathered py.			
54 - 55			Same as above. 5 mm barren qtz-k-spar.			
55 - 56			Same as above. 20 cm gauge zone along 30°.			
56 - 57			Minor bio. Local potassic flooding. Slips along 60°.			
57 - 58			Minor dissem, weathered py, spec, hem.			
58 - 59			Same as above. 3 cm gauge zone along 60°.			

METRES	ROCK TYPE (core description)	ALTERATION & STRUCTURE (associated minerals)	MINERALIZATION	MLZN	RECOV.
59 - 60	Qtz-f-spar porphyry.	Very weak phyll alt w/ increased chlor & minor epid.	Minor bio. Local potassic flooding. Slips along 30° & 60°. Minor dissem, weathered py, spec, hem.		
60 - 61			Slips along 60°. 10 cm gauge zone along 30°.		
61 - 62			Minor dissem py, spec, hem. Slips along 30° & 60°.		
62 - 63			Local potassic flooding.		
63 - 64			Minor dissem py, spec, hem. Local potassic flooding.		
64 - 65			Local potassic flooding.		
65 - 66			Minor dissem py, spec, hem.		
66 - 67			Local potassic flooding. Frac along 60°. Chlor slip along 30°. Minor dissem py, spec, hem.		
67 - 68	Qtz-f-spar porphyry.	Weak phyll alt w/ chlor.	Fault w/ 1 cm displacement. Minor dissem py, spec, hem.		
68 - 69			Frac along 60°. Minor dissem py, spec, hem.		
69 - 70			30 cm gauge zone. Frac along 60°. Minor dissem py, spec, hem.		
70 - 71		Weak prop alt.	8 cm broken zone @ 67.4. Weak py, spec, hem.		
71 - 72			Minor spec, hem. Blebs of limonite. (weathered py?)		
72 - 73			Two 5 mm - 1 cm slips @ 70.6, 45° & 55° to core.		
73 - 74			Small slip @ 41.5, 35° to core.		
74 - 75			Small slip @ 72.2, 30° to core. 5 mm slip @ 72.9 subparallel to core. Very minor py, spec, hem.		
			8 cm slip @ 73.1, 35° to core. Core appears to have been ground up; poorly consolidated up to 77.		

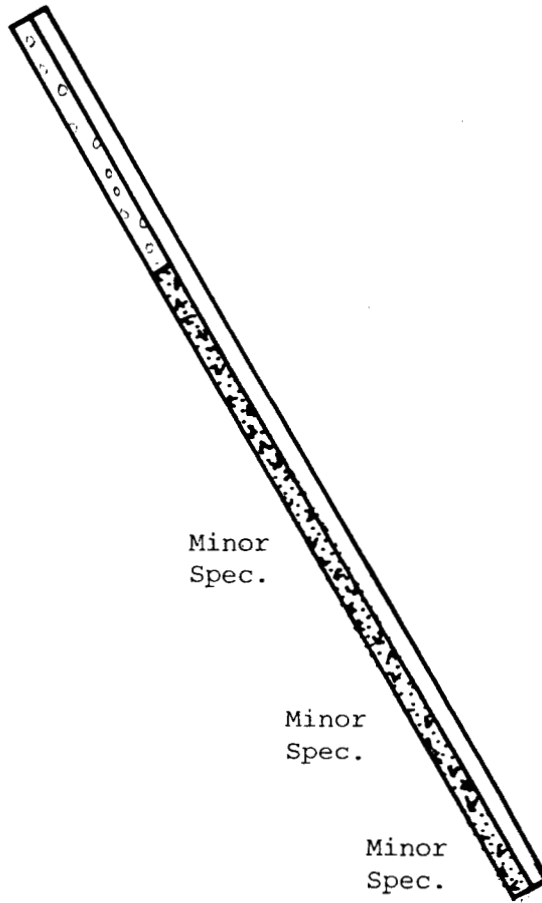
METRES	ROCK TYPE (core description)	ALTERATION & STRUCTURE (associated minerals)	MINERALIZATION	MLZN	RECOV.	
75 - 76	Qtz-f-spar porph.	Weak prop alt.				
76 - 77						
77 - 78						
78 - 79						
79 - 80						
80 - 81						
81 - 82			5 mm slip @ 81.5, 30° to core.			
82 - 83			8 cm gauge zone @ 82.5, 40° to core.			
83 - 84						
84 - 85						
85 - 86						
86 - 87						
87 - 88			Gauge and broken zone from 87.3 to 87.9.			
88 - 89			1 cm slip @ 88.3, 20° to core.			
89 - 90			Fracs along 20° & 70°. Spec & hem.			
90 - 91			Slip along 60°. Gauge & broken zone from 90.84 to 91.14. Spec & hem.			
91 - 92			1 cm slip @ 91.14 along 30°.		80	
92 - 93		Weak prop alt w/ slightly increased chlor.	Gauge & broken zone from 92.04 to 92.32. Fracs along 60°.		80	
93 - 94	Qtz-f-spar porph w/ sericite.		10 cm broken & gauge zone @ 93.8. Minor spec, hem.			
94 - 95			Slip zone @ 94.2 along 60°. 1 cm slip @ 94.8 along 30°.			
95 - 96			Gauge zone & broken core @ 95.4 through 96. Minor spec, hem.			
96 - 97			Gauge zone continues to 96.2. Minor bio, spec, hem.			

METRES	ROCK TYPE (core description)	ALTERATION & STRUCTURE (associated minerals)	MINERALIZATION	MLZN	RECOV.	
97 - 98	Qtz-f-spar porph w/ sericite.	Weak prop alt w/ slightly increased chlor.	1 cm slip along 50° at 97.2. Slip along 30°.			
98 - 99			Minor spec, hem. Gauge & broken zone from 98.4 through 99.		95	
99 - 100			Gauge zone continues to 99.36. 1 cm slip @ 99.8 along 60°.		85	
100 - 101			3 narrow slips @ 100.4 along 30°. Gauge & broken zone from 100.5 to 101.			
101 - 102.1			Gauge & broken zone from 101.15 to end.			
102.1	END OF HOLE.					

APPENDIX IV

Drill Section SS-26-81

Azimuth - 0°
Angle - 65°
Depth - 102.1 M



LEGEND



Overburden

Feldspar Porphyry

Scale 1:750

APPENDIX V

Statement of Costs

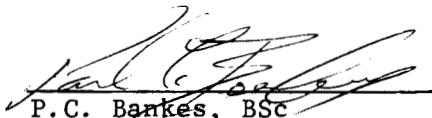
<u>Drill Move</u>		
July 19 to 21, 1981; 2½ days		\$4,527.36
<u>Diamond Drilling</u>		
July 21 to 23, 1981; 2½ days; 102 metres of BQ core @ \$85.49/metre (335 feet @ \$26.03/foot)		8,719.51
<u>Drill Move</u>		
July 24 to 25, 1981; 2 days		3,250.53
<u>Geologist</u>		
July 19 to 25, 1981; 7 days @ \$86.00/day		602.00
<u>Student</u>		
July 19 to 25, 1981; 7 days @ \$53.00/day		<u>371.00</u>
	Total	\$17,470.40

APPENDIX VI

STATEMENT of QUALIFICATIONS

I, Paul Bankes, of the town of Peachland, Province of British Columbia,
do hereby certify that:

- 1) I am a geologist residing in Peachland with Post Office Box 9 as my address.
- 2) I am a graduate of the University of Western Ontario, with a BSc in geology (1978).
- 3) I have been employed as an exploration geologist by Brenda Mines Ltd. since April 1978.

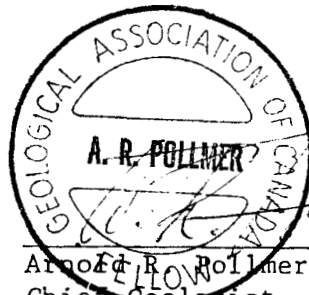

P.C. Bankes, BSc
Exploration Geologist
Brenda Mines Ltd.

Aug 31 1981
Date

STATEMENT of QUALIFICATIONS

I, Arnold R. Pollmer of Peachland, Province of British Columbia,
do certify that:

- 1) I have been employed as a geologist by Noranda Mines Limited from December 1973 to June 1977; I am presently employed as the chief geologist by Brenda Mines Ltd.
- 2) I am a graduate of the University of Wisconsin with a Bachelor of Science Degree in Geology (1972).
- 3) I am a member of the Canadian Institute of Mining and Metallurgy.
- 4) I am a fellow of the Geological Association of Canada.



Arnold R. Pollmer
Chief Geologist
Brenda Mines Ltd.