

9424

PART 1

OF 2

81-#665
-9424

BRENDA MINES LTD.
EXPLORATION GROUP

REPORT on D.D.H. - SS-20-81 and SS-21-81

SIWASH SILVER MINERAL PROPERTY

Latitude $49^{\circ} 49'$, Longitude $120^{\circ} 20'$

Similkameen Mining Division

N.T.S. 92H/16

Paul C. Bankes

August, 1981

Part 1
of 2



TABLE of CONTENTS

	<u>Page No.</u>
I INTRODUCTION	
a) History of Property	1
b) Topography and Vegetation	1
II PROPERTY DESCRIPTION	
a) Location and Access	2
b) Claim Inventory	4
III REGIONAL SETTING	6
IV DIAMOND DRILLING	
a) Introduction	7
b) Hole Descriptions	7
c) Treatment of Results	8
V CONCLUSIONS	8
APPENDICIES	
I - Preparation for Rock Samples and Drill Core.	10
II - List of Abbreviations	11
III - Detailed Diamond Drill Hole Records	
a) D.D.H. - SS-20-81	12
b) D.D.H. - SS-21-81	31
IV - Graphic Drill Hole Sections	37
V - Statement of Costs	38
VI - Statement of Qualifications	39
LIST of FIGURES	
Figure 1 - Location Map	3
Figure 2 - Claim Map	5
Figure 3 - D.D.H. Location Map	9

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

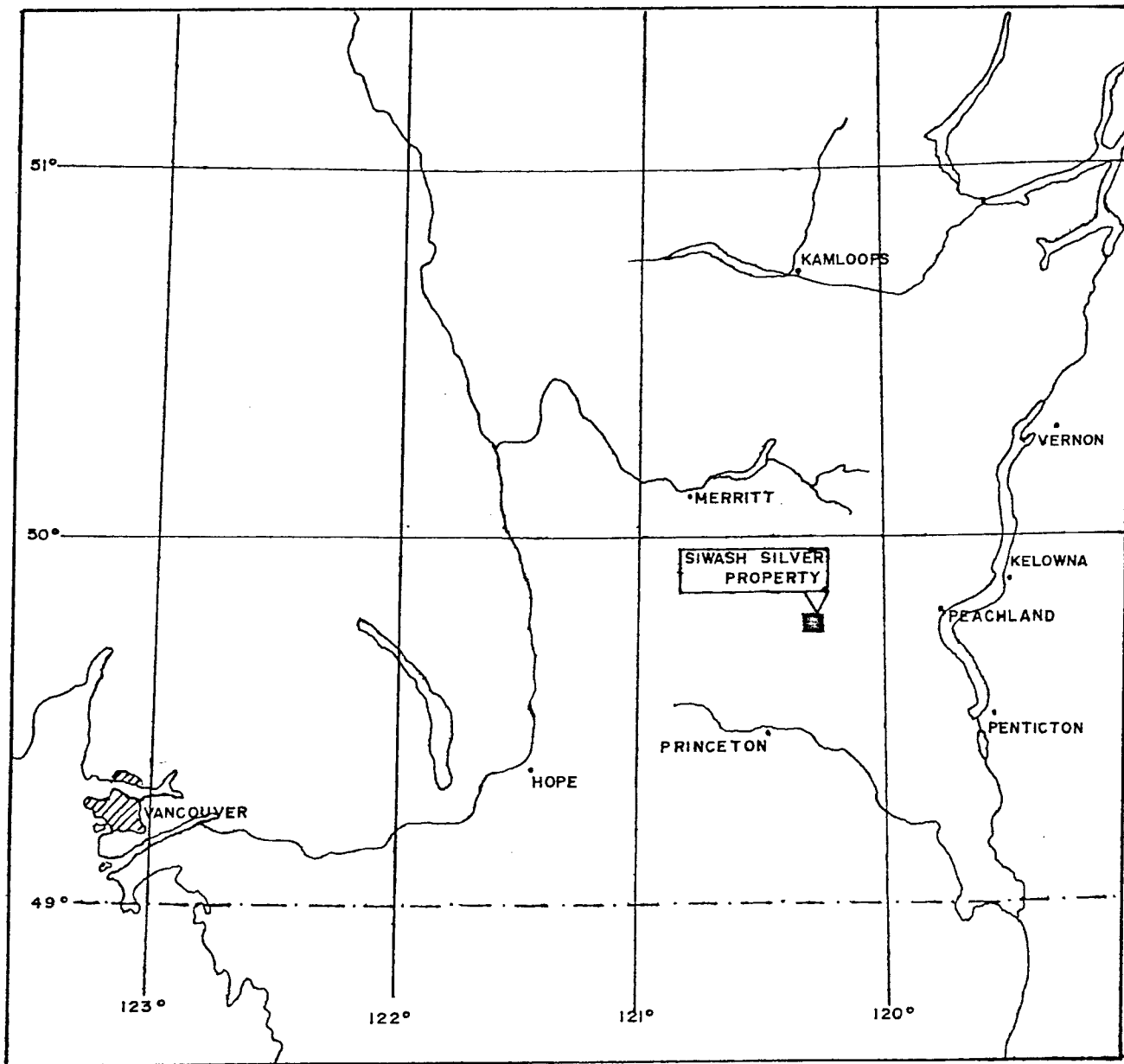
The property occupies the deep, narrow, terraced Siwash Creek valley and its surrounding plateau lands. Major tributaries include Tepee, Galena and Gavin Creeks flowing into the main valley from the east and Saskat Creek entering from the west. All of these creeks occupy the base of very steep, narrow 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.

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



SCALE 1:2 000 000

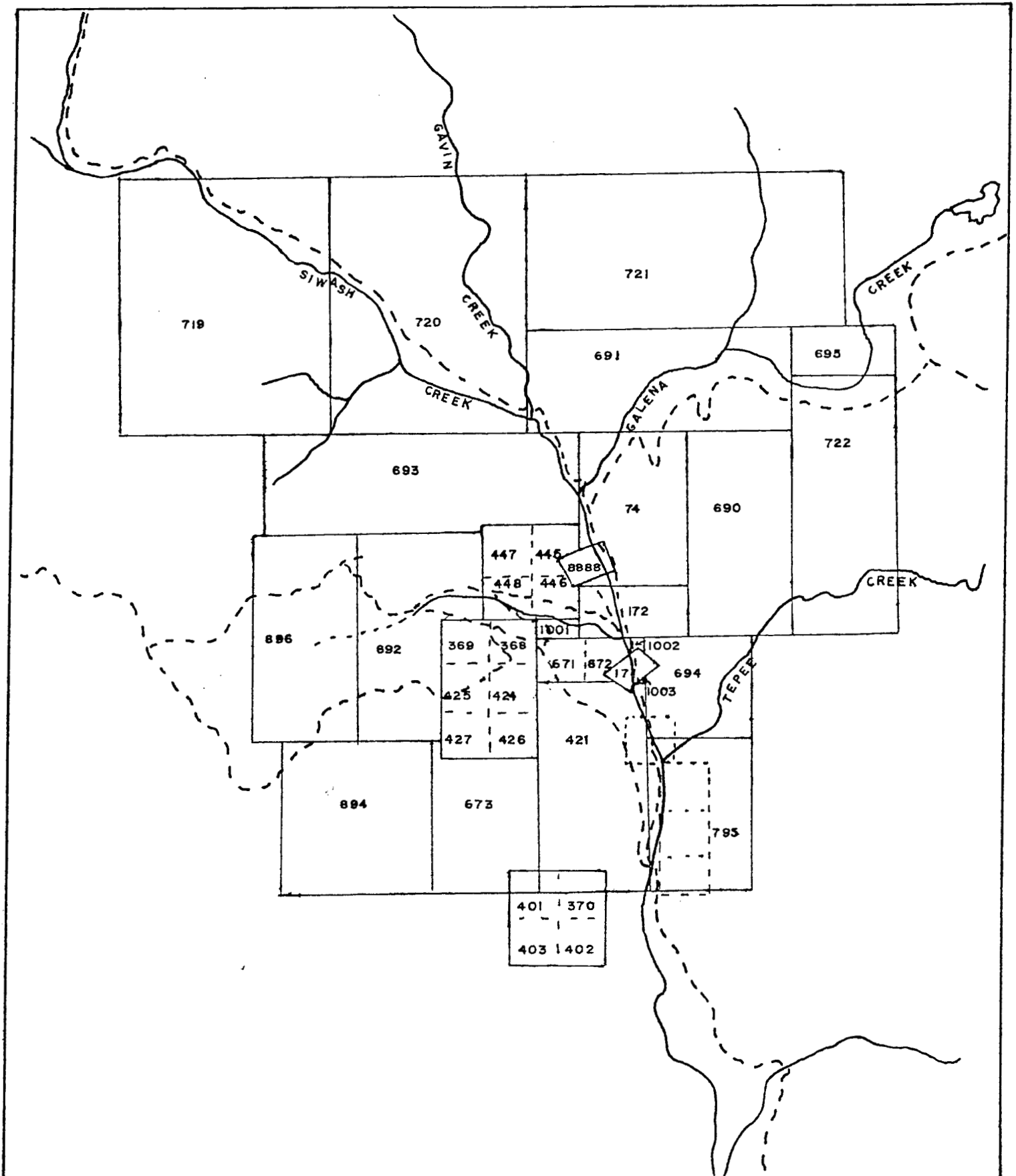
KILOMETRES 50 0 50 100 150 200 KILOMETRES

b) Claim Inventory

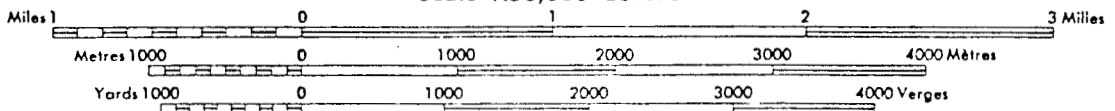
<u>Claim Name</u>	<u>Record No.</u>	<u>Units</u>	<u>Record Date</u>	<u>Assessment Date</u>
ED	74	6	June 29/76	June 29/87
ED # 2	172	2	Nov. 23/76	Nov. 23/87
Saskat 1	368	1	June 29/78	June 29/87
Saskat 2	369	1	June 29/78	June 29/87
June 1	370	1	June 29/78	June 29/86
Skye 1	401	1	Aug. 15/78	Aug. 15/86
Skye 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, chalcopryrite, 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 (3,447 feet) of BQ core between July 4th and July 24th, 1981. Holes SS-20-81 and SS-21-81 were drilled to better determine the extent of mineralization within diatremes on the Fergito-Allendo 1 claim block. A D-6 caterpillar was made available at all times for drill moves and drill pad preparation.

b) Hole Descriptions

1) D.D.H. - SS-20-81

Commenced:	July 6, 1981	Completed:	July 8, 1981
Location:	Gavin Trenches	Elevation:	4,500 feet
Azimuth:	0°	Angle:	60°
Depth:	193.6 metres (635 feet)		

<u>Lithologies</u>	<u>Alteration</u>	<u>Mineralization</u>
Diatreme (hosts rounded fragments of Rhyolite, quartz-eye porphyry, granite, basalt and diorite) 193.6m.	Weak phyllic alteration.	Minor chalcopyrite, sphalerite and galena along fractures and narrow quartz veins.

2) D.D.H. - SS-21-81

Commenced:	July 8, 1981	Completed:	July 10, 1981
Location:	Sandy Trenches	Elevation:	4,400 feet
Azimuth:	310°	Angle:	45°
Depth:	90 metres (295 feet)		

<u>Lithologies</u>	<u>Alteration</u>	<u>Mineralization</u>
Diatreme (rounded fragments of quartz-eye porphyry and rhyolite) 43m.	Strong phyllic alteration	Trace galena

2) D.D.H. - SS-21-81 (cont'd)

<u>Lithologies</u>	<u>Alteration</u>	<u>Mineralization</u>
Biotite feldspar porphyry, 18m.	Propylitic alteration.	Trace molybdenite. Minor disseminated galena.

c) Treatment of Results

Detailed diamond drill hole records and graphic drill hole sections for SS-20-81 and SS-21-81 have been included in the appendix of this report. Mineralized zones were analysed at the Brenda Mines Assay Laboratory for Cu, Mo, Pb and Zn in %. Assay results have been plotted on the drill hole sections.

V CONCLUSIONS

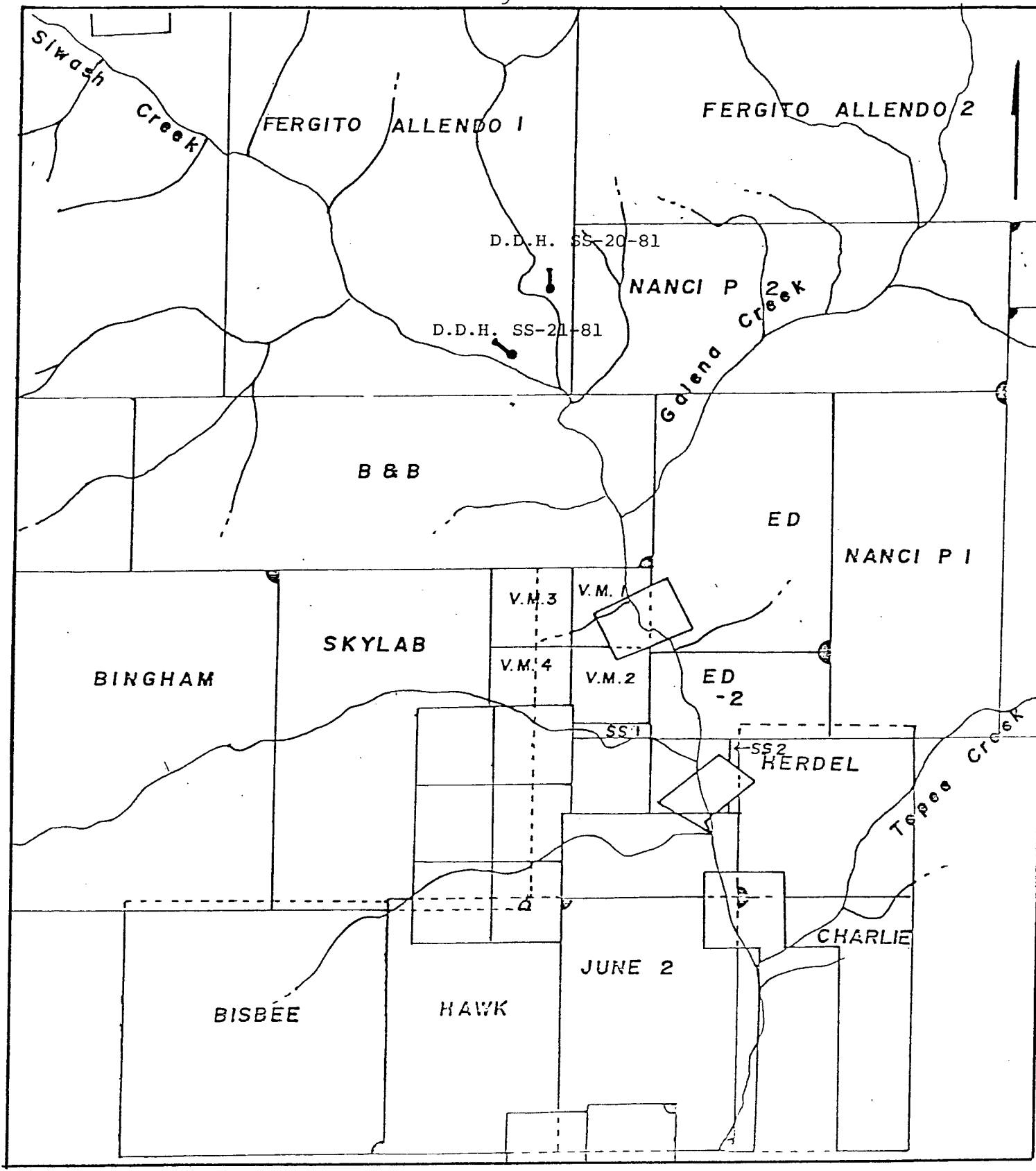
Diatremes which were the dominant rock types encountered in SS-20-81 and SS-21-81 occur as far more uniform and extensive lithologies than had been previously expected.

Alteration appears to be more intense in SS-21-81 than in SS-20-81.

Minor sphalerite, chalcopyrite, galena and pyrite mineralization in SS-20-81 corresponds well with known surface mineral occurrences.

Vein related galena encountered in SS-21-81 coincides with a weak soil anomaly along Siwash Creek.

Though both holes exhibit pervasive alteration, no economic mineral was encountered.



D.D.H. LOCATION MAP

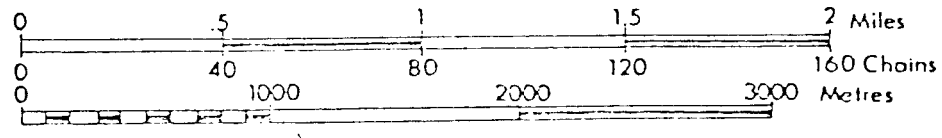


Figure 3

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.

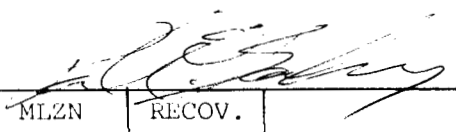
1. Weigh 2.00 GM on the top pan balance into a 150 ML beaker (check that beaker No. is the same as written on work sheet).
2. Add 15 MLS Nitric Acid, cover with watchglass and heat on low heat until brown Nitrous fumes are gone.
3. Remove beakers from hot plate, cool for 5 minutes.
4. Add 10 ML Hydrochloric 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 ALC_3 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	phyll	- phyllic
cm	- centimetre	porphy	- porphyry
cpy	- chalcopyrite	prop	- propylitic
Cu	- copper	py	- pyrite
diss/ dissem	- disseminated	Qz	- 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 SILVERD.D.H. No. SS-20-81Dip 60°D.D.H. Grid Location Gavin TrenchesElevation 4,500 feetAzimuth 0°Core Size BQ Total Depth 193.6 metres (635 feet)


METRES	ROCK TYPE & ALTERATION (core description)	STRUCTURE	MINERALIZATION	MLZN	RECOV.	
	Diatreme	<ul style="list-style-type: none"> - weak to moderate Phyllic alteration - fine disseminated Pyrite throughout - pale green in colour - rounded to subangular fragments of quartz eye porphyry (Phyllic altered and disseminated Pyrite), basalt and diorite (chlorite Altered), andesite and granite - fragments range from 3 mm to 5 cm in size 				

Property SIWASH SILVER

D.D.H. No. SS-20-81

Dip 60°

D.D.H. Grid Location Gavin Trenches

Elevation 4,500 feet

Azimuth 0°

Core Size BQ Total Depth 193.6 metres (635 feet)

METRES	ROCK TYPE & ALTERATION (core description)	STRUCTURE	MINERALIZATION	MLZN	RECOV.	
0 - 3.4	Overburden					
3.4 - 4.0	Diatreme - weak phyllic alteration	Several 160° and 50° fractures	Pyrite and limonite on fractures			
4.0 - 5.0	Diatreme - weak phyllic alteration	20 cm. gouge zone, rounded chert, basalt and altered qtz. eye fragments Limonite fractures 5°	Minor disseminated Pyrite			
5.0 - 6.0	Diatreme - weak phyllic alteration	Limonite and chlorite on 60° Trending fractures	Minor disseminated Pyrite			
6.0 - 7.0	Diatreme - weak phyllic alteration	Basalt and qtz. eye fragments range up to 3 cm.	Minor disseminated Pyrite			
7.0 - 8.0	Diatreme - weak phyllic alteration	Basalt and qtz. eye fragments range up to 3 cm.	Minor disseminated Pyrite			
8.0 - 9.0	Diatreme - weak phyllic alteration	Increase in number of fragments Several weakly chloritized zones	Minor disseminated Pyrite			
9.0 - 10.0	Diatreme - weak phyllic alteration	Increase in number of fragments Several weakly chloritized zones	Minor disseminated Pyrite			
10.0 - 11.0	Diatreme - weak phyllic alteration	Several narrow fractures 10°	Minor disseminated Pyrite			

METRES	ROCK TYPE & ALTERATION (core description)	STRUCTURE	MINERALIZATION	MLZN	RECOV.	
11.0 - 12.0	Diatreme - weak phyllic alteration	Small zones which contain abundant fragments - moderate fracturing 45° & 60°	Minor disseminated Pyrite			
12.0 - 13.0	Diatreme - weak phyllic alteration	Locally well rounded highly altered fragments of qtz. eye porphyry	Minor disseminated Pyrite			
13.0 - 14.0	Diatreme - weak phyllic alteration	Locally well rounded highly altered fragments of qtz. eye porphyry	Minor disseminated Pyrite			
14.0 - 15.0	Diatreme - weak phyllic alteration	Large 9 cm. qtz. eye porphyry fragments	5 cm. qtz. pyrite vein 10°			
15.0 - 16.0	Diatreme - weak phyllic alteration	Large 9 cm. qtz. eye porphyry fragments	Pyrite along fragment boundaries			
16.0 - 17.0	Diatreme - weak phyllic alteration	5 cm. qtz. eye porphyry fragments well rounded				
17.0 - 18.0	Diatreme - weak phyllic alteration	5 cm. qtz. eye porphyry fragments well rounded	Small pyrite blebs - disseminated pyrite along clasts			
18.0 - 19.0	Diatreme - weak phyllic alteration	5 cm. qtz. eye porphyry fragments well rounded	Small pyrite blebs - disseminated Pyrite along clasts			
19.0 - 20.0	Diatreme - weak phyllic alteration	Several chlorite fractures at 20°	Small pyrite blebs - disseminated pyrite along clasts			
20.0 - 21.1	Diatreme - weak phyllic alteration	Many highly chloritized chert fragments	Small blebs of sphalerite on 20° fractures			
21.1 - 22.0	Diatreme - weak phyllic alteration	Many highly chloritized chert fragments	30° fracture sph. py. 20° fracture sph. py. cpy.			
22.0 - 23.0	Diatreme - weak phyllic alteration	Many highly chloritized chert fragments	Disseminated Pyrite			

METRES	ROCK TYPE & ALTERATION (core description)	STRUCTURE	MINERALIZATION	MLZN	RECOV.
23.0 - 24.0	Diatreme - weak phyllic alteration	Many highly chloritized chert fragments	Trace disseminated py. sph. and pb.		
24.0 - 25.0	Diatreme - weak phyllic alteration	Many highly chloritized chert fragments	Minor disseminated zn. & py. blebs Disseminated py. & spec. around fragments		
25.0 - 26.0	Diatreme - weak phyllic alteration	Disseminated Py. around clasts	Sph., cpy. and vuggy qtz. along 10° fracture		
26.0 - 27.0	Diatreme - weak phyllic alteration	Disseminated Py. around clasts	Fine disseminated Py. around clasts		
27.0 - 28.0	Diatreme - weak phyllic alteration	Irregular fractures at 10°	Py., cpy. & minor sph. or pb. and qtz. on fractures		
28.0 - 29.0	Diatreme - weak phyllic alteration	Broken core - 30° chlorite slip	Disseminated Pyrite		
29.0 - 30.0	Diatreme - weak phyllic alteration		Disseminated Pyrite Trace sphalerite		
30.0 - 31.0	Diatreme - weak phyllic alteration	30 cm. gouge zone at 30°	Disseminated Pyrite Trace sphalerite		
31.0 - 32.0	Diatreme - weak phyllic alteration	Several chlorite fractures at 30°	Disseminated Pyrite, trace sphalerite and spec.		
32.0 - 33.0	Diatreme - weak phyllic alteration	Unfractured core	Spec. in and around rounded fragments		
33.0 - 34.0	Diatreme - weak phyllic alteration	20 cm. zone with weak hematite	Disseminated Pyrite possible cpy.		
34.0 - 35.0	Diatreme - weak phyllic alteration		Several 2 - 3 cm. vuggy 60° qtz. veins with trace spec.		
35.0 - 36.0	Diatreme - weak phyllic alteration	Small zone of breccia	Disseminated Pyrite		
36.0 - 37.0	Diatreme - weak phyllic alteration	Weakly brecciated core	Disseminated Pyrite		

METRES	ROCK TYPE & ALTERATION (core description)	STRUCTURE	MINERALIZATION	MLZN	RECOV.	
37.0 - 38.0	Diatreme - weak phyllic alteration	Strongly brecciated core	Disseminated Pyrite			
38.0 - 39.0	Diatreme - weak phyllic alteration	Gouge zone Highly broken core	Disseminated Pyrite			
39.0 - 40.0	Diatreme - weak phyllic alteration	Gouge zone Highly broken core	Disseminated Pyrite			
40.0 - 41.0	Diatreme - weak phyllic alteration		Disseminated Pyrite			
41.0 - 42.0	Diatreme - weak phyllic alteration		Disseminated Pyrite			
42.0 - 43.0	Diatreme - weak phyllic alteration	30 cm. Breccia zone	Minor Spec.			
43.0 - 44.0	Diatreme - weak phyllic alteration	Several fractures at 30°	Disseminated Pyrite			
44.0 - 45.0	Diatreme - weak phyllic alteration	Weak fracturing on 60° and 20°	Disseminated Pyrite			
45.0 - 46.0	Diatreme - weak phyllic alteration	Weak fracturing along 20°	Disseminated Pyrite			
46.0 - 47.0	Diatreme - weak phyllic alteration	Several small gouge zones	Disseminated Pyrite			
47.0 - 48.0	Diatreme - weak phyllic alteration	Unfractured Core	Disseminated Pyrite			
48.0 - 49.0	Diatreme - weak phyllic alteration	Unfractured Core	Disseminated Pyrite			
49.0 - 50.0	Diatreme - weak phyllic alteration	Unfractured Core	2 mm. pyrite vein 20° 2 mm. zn., cpy., py. vein at 20°			

METRES	ROCK TYPE & ALTERATION (core description)	STRUCTURE	MINERALIZATION	MLZN	RECOV.
50.0 - 51.0	Diatreme - weak phyllic alteration	Small clusters of Biotite	2 mm. spec. vein at 30° 1 mm. spec. vein at 30°		
51.0 - 52.0	Diatreme - weak phyllic alteration				
52.0 - 53.0	Diatreme - weak phyllic alteration	Chlorite slips along 20°	Disseminated pyrite & spec. 3 cm. vuggy qtz. vein at 60° Pyrite & spec.		
53.0 - 54.0	Diatreme - weak phyllic alteration	1 cm. gouge zone at 60°	Disseminated pyrite & spec.		
54.0 - 55.0	Diatreme - weak phyllic alteration	chlorite slip 60°	Disseminated pyrite & spec.		
55.0 - 56.0	Diatreme - weak phyllic alteration	Qtz. eye clast with strong spec. Chlorite slip 20°	Disseminated pyrite Pyrite on slip		
56.0 - 57.0	Diatreme - weak phyllic alteration		1 - 1cm. py. qtz vein 60° 3 - 2 to 3 cm. vuggy qtz. py., pb., sph. veins 60°		
57.0 - 58.0	Diatreme - weak phyllic alteration	Broken Core	Disseminated Pyrite 1 cm. qtz. py. vein vuggy 25° .2 cm. - 1 cm. vuggy qtz py vein 20°		
58.0 - 59.0	Diatreme - weak phyllic alteration	Highly chloritized Qtz eye fragment	Disseminated pyrite Vuggy qtz. vein (2 cm.) 60° Disseminated spec. 3 cm. qtz. py. vein 30°		
59.0 - 60.0	Diatreme - weak phyllic alteration	Broken Core 5 cm. gouge zone	Disseminated pyrite & spec.		
60.0 - 61.0	Diatreme - weak phyllic alteration	Fractured along 50° 70°	Disseminated pyrite & spec.		

METRES	ROCK TYPE & ALTERATION (core description)	STRUCTURE	MINERALIZATION	MLZN	RECOV.
			3 cm. 30° qtz. vein Pyrite - minor spec. & pb.		
61.0 - 62.0	Diatreme - weak phyllic alteration	Fracturing at 40° 5 cm. chlorite gouge	Disseminated Pyrite & spec.		
62.0 - 63.0	Diatreme - weak phyllic alteration	Fracture at 20°	Disseminated Pyrite & spec.		
63.0 - 64.0	Diatreme - weak phyllic alteration		2 cm. vuggy qtz. vein, cpy. blebs, py. & spec. 30° Disseminated Pyrite & spec.		
64.0 - 65.0	Diatreme - weak phyllic alteration	Fractures at 30 Large diorite & qtz. eye clasts	Disseminated Pyrite		
65.0 - 66.0	Diatreme - weak phyllic alteration	Several 30° fractures Small granite fragment	Disseminated Pyrite		
66.0 - 67.0	Diatreme - weak phyllic alteration	1 cm. breccia along 20	Several .5 cm. Spec. Hem. blebs		
67.0 - 68.0	Diatreme - weak phyllic alteration	2 small breccia zones 1 cm. weakly chloritized zone at 90°	2 cm. vuggy qtz. vein py. spec. and pb. 20°		
68.0 - 69.0	Diatreme - weak phyllic alteration	1 cm. 0° breccia zone	Disseminated pyrite		
69.0 - 70.0	Diatreme - weak phyllic alteration	Chlorite slip 40°	Disseminated Pyrite		
70.0 - 71.0	Diatreme - weak phyllic alteration	Small 40° gouge	30° qtz. vein - 3 cm. & 1 cm. Strong py., qtz. k-feldspar minor spec. pb.		
71.0 - 72.0	Diatreme - weak phyllic alteration		30° - 1 cm. py. qtz. vein 5 cm. of broken qtz., py., sph. vein		
72.0 - 73.0	Diatreme - weak phyllic	Several 30 chlorite slips	Disseminated Pyrite		

METRES	ROCK TYPE & ALTERATION (core description)	STRUCTURE	MINERALIZATION	MLZN	RECOV.	
73.0 - 74.0	Diatreme - weak phyllic alteration		Disseminated Pyrite			
74.0 - 75.0	Diatreme - weak phyllic alteration	Increase in all types of fragments near 75	Disseminated Pyrite			
75.0 - 76.0	Diatreme - weak phyllic alteration	Increase in number of fragments range from .3 to 1.5 cm.				
76.0 - 77.0	Diatreme - weak phyllic alteration	Fewer fragments				
77.0 - 78.0	Diatreme - weak phyllic alteration	Massive core	2 mm. spec. Hem. vein along 0°			
78.0 - 79.0	Diatreme - weak phyllic alteration	Massive core	2 mm. spec. Hem. vein along 0°			
79.0 - 80.0	Diatreme - weak phyllic alteration	Breccia along 10° near 80 cm.	2mm. spec. vein along 45°			
80.0 - 81.0	Diatreme - weak phyllic alteration	Small breccia Large number of fragments	Disseminated Pyrite 30° qtz. vein - 2 cm. py. pb. & spec.			
81.0 - 82.0	Diatreme - weak phyllic alteration	Several chlorite slips on 30°	Minor spec. on slips Disseminated pyrite			
82.0 - 83.0	Diatreme - weak phyllic alteration	Small 2 mm. qtz. vein 30° Several chlorite slips 30°	Disseminated Pyrite			
83.0 - 84.0	Diatreme - weak phyllic alteration weakly silificied	Small 2 mm. qtz. vein 30° Several chlorite slips 30°	Disseminated Pyrite Small blebs of sph. on vein			
84.0 - 85.0	Diatreme - weak phyllic alteration	1 cm. chloritized zones along 60°	Disseminated Pyrite 2 mm. spec. vein along 10° 1 cm. qtz. vein along 10° Py., Zn. & Spec.			

METRES	ROCK TYPE & ALTERATION (core description)	STRUCTURE	MINERALIZATION	MLZN	RECOV.
85.0 - 86.0	Diatreme - weak phyllic alteration	1 cm. chloritized zones along 60° 3 cm. chloritized zone 60°	Disseminated Pyrite		
86.0 - 87.0	Diatreme - weak phyllic alteration	1 cm. chloritized zones along 60° Chlorite slips 60°	Disseminated Pyrite		
87.0 - 88.0	Diatreme - weak phyllic alteration		2 mm. pyrite qtz. vein 10° 2 cm. pyrite qtz. sph pb. vein at 30°		
88.0 - 89.0	Diatreme - weak phyllic alteration	Several fractures along 60°	Disseminated Pyrite		
89.0 - 90.0	Diatreme - weak phyllic alteration	Chlorite slip along 60°	Disseminated Pyrite Zn., Py., Qtz. along 1 cm. vuggy vein 30°		
90.0 - 91.0	Diatreme - weak phyllic alteration	Chlorite slip along 40°	Disseminated Pyrite		
91.0 - 92.0	Diatreme - weak phyllic alteration	Chlorite slips along 60°	Disseminated Pyrite		
92.0 - 93.0	Diatreme - weak phyllic alteration	Chlorite slips along 60°	.5 cm. and 1 cm. vuggy qtz. & Py. veins Small blebs of Zn.		
93.0 - 94.0	Diatreme - weak phyllic alteration	Several chloritized zones along 60°			
94.0 - 95.0	Diatreme - weak phyllic alteration		Strong disseminated Py. .2 cm. and 1 cm. vuggy qtz. veings with strong pyrite		
95.0 - 96.0	Diatreme - weak phyllic alteration	Chlorite slips along 60°	Disseminated Pyrite		

METRES	ROCK TYPE & ALTERATION (core description)	STRUCTURE	MINERALIZATION	MLZN	RECOV.
96.0 - 97.0	Diatreme - weak phyllic alteration	Chlorite slips along 60° Small breccia zone	1 cm. py. vuggy qtz. vein along 30°		
97.0 - 98.0	Diatreme - weak phyllic alteration	Small breccia zone	Minor Spec. & Zn.		
98.0 - 99.0	Diatreme - weak phyllic alteration	Chlorite slips along 30°	Small Py. blebs Disseminated Pyrite		
99.0 - 100.0	Diatreme - weak phyllic alteration	Chlorite slips along 30°	Disseminated Spec.		
100.0 - 101.0	Diatreme - weak phyllic alteration	Unfractured core	Disseminated Pyrite		
101.0 - 102.0	Diatreme - weak phyllic alteration	Unfractured core	1 cm. vuggy qtz. vein py. & py. spec. 25°		
102.0 - 103.0	Diatreme - weak phyllic alteration	Several fractures 60° Large chloritized fragments			
103.0 - 104.0	Diatreme - weak phyllic alteration	Large number of fragments Several fractures 60°			
104.0 - 105.0	Diatreme - weak phyllic alteration		Disseminated Pyrite		
105.0 - 106.0	Diatreme - weak phyllic alteration	.5 cm. breccia zone	Disseminated Pyrite		
106.0 - 107.0	Diatreme - weak phyllic alteration	Fractures along 60°	Disseminated Pyrite		
107.0 - 108.0	Diatreme - weak phyllic alteration	Fractures at 30° & 60° (Minor)	3 cm. Py. vuggy qtz. vein at 30°		
108.0 - 109.0	Diatreme - weak phyllic alteration	Fractures at 30° & 60° (Minor)			
109.0 - 110.0	Diatreme - weak phyllic alteration	Fractures at 30° & 60° (Minor)	3 cm. vein at 25 Vuggy qtz., py., cpy. pb.		

METRES	ROCK TYPE & ALTERATION (core description)	STRUCTURE	MINERALIZATION	MLZN	RECOV.
			K-feldspar and chlorite		
110.0 - 111.0	Diatreme - weak phyllic alteration	Fractured at 30° and 60°	Disseminated Pyrite		
111.0 - 112.0	Diatreme - weak phyllic alteration	Fractured at 30° and 60°	2 mm. fracture py., cpy. sph. 30° Disseminated Pyrite		
112.0 - 113.0	Diatreme - weak phyllic alteration	Fractured at 30° and 60°	Fine Spec. & Sph. on 10° irregular fracture		
113.0 - 114.0	Diatreme - weak phyllic alteration	Fractured along 30° and 60°	Disseminated Pyrite		
114.0 - 115.0	Diatreme - weak phyllic alteration (Moderate pb.) (weakly silicified)	Fractured along 30° and 60°	1 cm. vuggy qtz. vein py., cpy., pb., zn. 25°		
115.0 - 116.0	Diatreme - weak phyllic alteration (Minor K-feldspar)	25° chlorite slip Chloritized fractures	Disseminated Pyrite		
116.0 - 117.0	Diatreme - weak phyllic alteration	25° chlorite slip Chloritized fractures	Disseminated Pyrite		
117.0 - 118.0	Diatreme - weak phyllic alteration	25° chlorite slip Chloritized fractures	1 cm. vuggy qtz. Pyrite vein 20°		
118.0 - 119.0	Diatreme - weak phyllic alteration	25° chlorite slip Chloritized fractures 10 cm. gouge zone	2 mm. spec. & Pyrite vein 25°		
119.0 - 120.0	Diatreme - weak phyllic alteration	Chloritized fractures 30° and 60° 1 cm. gouge zone			
120.0 - 121.0	Diatreme - weak phyllic alteration	Fractures along 25°	Minor disseminated pyrite		

METRES	ROCK TYPE & ALTERATION (core description)	STRUCTURE	MINERALIZATION	MLZN	RECOV.
121.0 - 122.0	Diatreme - weak phyllic alteration	Fractures along 25°	Disseminated Pyrite Sph. along a 1 mm. qtz vein 20°		
122.0 - 123.0	Diatreme - weak phyllic alteration	10 cm. breccia	Pyrite and tract Zn. in breccia		
123.0 - 124.0	Diatreme - weak phyllic alteration	40 cm. breccia	Disseminated Pyrite Strong py. in breccia		
124.0 - 125.0	Diatreme - weak phyllic alteration	Fractures along 30°	Disseminated Pyrite		
125.0 - 126.0	Diatreme - weak phyllic alteration	Fractures along 30°	Brecciated 2 cm. vuggy qtz vein Py. minor K-feldspar		
126.0 - 127.0	Diatreme - weak phyllic alteration (coarser grained)	Fractures along 30°	2 - 1 cm. qtz. veins Py. & zn. at 25°		
127.0 - 128.0	Diatreme - weak phyllic alteration	Highly chl. fractures 30 cm. breccia zone	Smaller blebs of Py. in breccia Disseminated Pyrite 3 mm. 10° qtz. vein Py.		
128.0 - 129.0	Diatreme - weak phyllic alteration	Chlorite slips 60° 2 small gouge zones	Disseminated Pyrite		
129.0 - 130.0	Diatreme - weak phyllic alteration Several small zones of weak Pot. Ah.	4 cm. breccia zone Fractures 30°	Disseminated Pyrite		
130.0 - 131.0	Diatreme - weak phyllic alteration (10 cm. zone of weak Pot. Ah.)	Chlorite slips at 60°	Disseminated Pyrite		
131.0 - 132.0	Diatreme - weak phyllic	chlorite slips at 60° & 30°	Disseminated Pyrite		

METRES	ROCK TYPE & ALTERATION (core description)	STRUCTURE	MINERALIZATION	MLZN	RECOV.
	alteration (15 cm. zone of weak Pot Ah.)	Several chloritized fragments			
132.0 - 133.0	Diatreme - weak phyllic alteration	Chlorite slips at 60° and 30° Several chloritized fragments 10 cm. highly chloritized zone	Disseminated Pyrite		
133.0 - 134.0	Diatreme - weak phyllic alteration (40 cm. zone of weak Pot. Ah.)	Chlorite slips at 60° and 30° (5 cm. gouge)	Disseminated Pyrite Disseminated Spec.		
134.0 - 135.0	Diatreme - weak phyllic alteration (20 cm. zone of weak Pot Ah.)	Chlorite slips and fractures along 60°	Disseminated Pyrite		
135.0 - 136.0	Diatreme - weak phyllic alteration	Chlorite slips and fractures along 60° 3 cm. qtz. eye fragment	Disseminated Pyrite		
136.0 - 137.0	Diatreme - weak phyllic alteration	Chlorite slips and fractures along 60° 3 cm. gouge 60°	Disseminated Pyrite Minor Disseminated Spec.		
137.0 - 138.0	Diatreme - weak phyllic alteration	Chlorite slips and fractures along 60°	Disseminated Pyrite Minor Disseminated spec.		
138.0 - 139.0	Diatreme - weak phyllic alteration	Chlorite slips and fractures along 60°	Disseminated Pyrite Minor Disseminated spec.		
139.0 - 140.0	Diatreme - weak phyllic alteration	Only 2 60° fractures	Disseminated Pyrite Minor Disseminated spec.		
140.0 - 141.0	Diatreme - weak phyllic alteration	5 cm. breccia 1 cm. calcite vein at 25°	Minor Disseminated Pyrite		
141.0 - 142.0	Diatreme - weak phyllic alteration	Several chlorite slips at 60°	Minor Disseminated Pyrite		
142.0 - 143.0	Diatreme - weak phyllic alteration	Narrow 2 cm. chloritized zone several 60° chlorite slips	Minor Disseminated Pyrite		

METRES	ROCK TYPE & ALTERATION (core description)	STRUCTURE	MINERALIZATION	MLZN	RECOV.	
143.0 - 144.0	Diatreme - weak phyllic alteration	Unfractured core	Minor disseminated Pyrite			
144.0 - 145.0	Diatreme - weak phyllic alteration	Unfractured Core	Minor disseminated Pyrite			
145.0 - 146.0	Diatreme - weak phyllic alteration	Unfractured Core	Minor disseminated Pyrite			
146.0 - 147.0	Diatreme - weak phyllic alteration	Several small 60° fractures 4 cm. fine grained qtz. eye fragment	Minor disseminated Pyrite			
147.0 - 148.0	Diatreme - weak phyllic alteration	1 cm. breccia pyrite 1 cm. chlorite gouge	Minor disseminated Pyrite			
148.0 - 149.0	Diatreme - weak phyllic alteration	Several 60° fractures & slips Rounded Qtz. eye fragment with spec.	Minor disseminated Pyrite			
149.0 - 150.0	Diatreme - moderate phyllic alteration	4 cm. breccia zone Unfractured Core	Minor disseminated Pyrite			
150.0 - 151.0	Diatreme - moderate phyllic alteration	50 cm. breccia 1 cm. gouge at 25°	Minor disseminated Pyrite			
151.0 - 152.0	Diatreme - moderate phyllic alteration	Many rounded fragments of chlorite andesite	Minor disseminated Pyrite Several small Py. blebs			
152.0 - 153.0	Diatreme - moderate phyllic alteration	Many fragments	Disseminated Spec.			
153.0 - 154.0	Diatreme - moderate phyllic alteration	Rounded fragments of granite Qtz. eye porphyry and Chl. And.	Disseminated Spec. & Py.			
154.0 - 155.0	Diatreme - moderate phyllic alteration	Rounded fragments of granite Qtz. eye porphyry and Chl. And.	Disseminated Spec. & Py.			

METRES	ROCK TYPE & ALTERATION (core description)	STRUCTURE	MINERALIZATION	MLZN	RECOV.	
155.0 - 156.0	Diatreme - Moderate phyllic alteration	Rounded fragments of granite Qtz. eye porphyry and chl. and.	Disseminated Spec. & Py.			
156.0 - 157.0	Diatreme - Moderate phyllic alteration	Few fragments Several fractures 60°	Trace Py. & spec.			
157.0 - 158.0	Diatreme - Moderate phyllic alteration	Few Fragments Several fractures 60°	Trace Py. & Spec.			
158.0 - 159.0	Diatreme - Moderate phyllic alteration	Few Fragments Several fractures 60°	Trace Py. & Spec.			
159.0 - 160.0	Diatreme - Moderate phyllic alteration	Few Fragments Several fractures 60° Small breccia	2 spec. hem. veins along 20°			
160.0 - 161.0	Diatreme - Moderate phyllic alteration	25° - 3 mm. chl. vein Small breccia	Minor Spec. on fractures Disseminated Pyrite			
161.0 - 162.0	Diatreme - Moderate phyllic alteration	Many large rounded Qtz. eye fragments	Minor disseminated Py. & Spec.			
162.0 - 163.0	Diatreme - Moderate phyllic alteration	Granite qtz. eye and chl. and. fragments	Disseminated Pyrite			
163.0 - 164.0	Diatreme - Moderate phyllic alteration	Granite qtz. eye and chl. and. fragments	Disseminated Pyrite			
164.0 - 165.0	Diatreme - Moderate phyllic alteration	Granite qtz. eye and chl. and. fragments	Disseminated Pyrite			
165.0 - 166.0	Diatreme - weak phyllic alteration	Granite qtz. eye and chl. and. fragments Several large highly chloritized zones	Disseminated Pyrite			
166.0 - 167.0	Diatreme - weak phyllic alteration	30 cm. zone of weak breccia	4 mm. spec. py. vein 25°			

METRES	ROCK TYPE & ALTERATION (core description)	STRUCTURE	MINERALIZATION	MLZN	RECOV.	
167.0 - 168.0	Diatreme - weak phyllic alteration	Highly broken core chloritized Angular fragments	Spec. & Pyrite on fractures and disseminated			
168.0 - 169.0	Diatreme - moderate phyllic alteration	Highly broken core chloritized Angular fragments Small gouge zone	Spec. & Py. on fractures and disseminated			
169.0 - 170.0	Diatreme - moderate phyllic alteration	Unfractured core Qtz. eye & chert fragments	Spec. & Pyrite on fractures and disseminated			
170.0 - 171.0	Diatreme - moderate phyllic alteration	Unfractured core Qtz. eye & chert fragments	Spec. & Pyrite on fractures and disseminated			
171.0 - 172.0	Diatreme - moderate phyllic alteration	Unfractured core Qtz. eye, chert, diorite, and Gc. and fine grained granite fragments	Trace Disseminated Pyrite			
172.0 - 173.0	Diatreme - moderate phyllic alteration	Unfractured core Qtz. eye, chert, diorite and Cg. and fine grained granite fragments	Trace disseminated Py.			
173.0 - 174.0	Diatreme - moderate phyllic alteration	Unfractured core Qtz. eye, chert, diorite and Cg. and fine grained granite fragments	Trace disseminated Pyrite			
174.0 - 175.0	Diatreme - moderate phyllic alteration	Unfractured core Qtz. eye, chert, diorite and Cg. and fine grained granite fragments (small .5 cm. gouge)	Trace disseminated Py.			
175.0 - 176.0	Diatreme - moderate phyllic alteration	Unfractured core Qtz. eye, chert, diorite and Cg. and fine grained granite fragments Minor spec. in fragments	Trace disseminated Py.			

METRES	ROCK TYPE & ALTERATION (core description)	STRUCTURE	MINERALIZATION	MLZN	RECOV.	
176.0 - 177.0	Diatreme - moderate phyllic alteration	Unfractured core Qtz. eye, chert, diorite and Cg. and fine grained granite fragments Fragments become larger - subangular	Trace disseminated Py.			
177.0 - 178.0	Diatreme - moderate phyllic alteration	Unfractured core Qtz. eye, chert, diorite and Cg. and fine grained granite fragments Chlorite slip along 25°	Trace disseminated Py.			
178.0 - 179.0	Diatreme - moderate phyllic alteration	Several fractures along 20°	Trace disseminated Py.			
179.0 - 180.0						
179.0 - 180.0	Diatreme - moderate phyllic alteration	Small 1 cm. gouge zone	Trace disseminated Py.			
180.0 - 181.0	Diatreme - moderate phyllic alteration	Unfractured core rounded to subangular Fragments of chert, Qtz. eye granite range from 1 - 7 cm.	Trace disseminated Py.			
181.0 - 182.0	Diatreme - moderate phyllic alteration	Unfractured core Rounded to subangular Fragments of chert, Qtz. eye Granite range from 1 - 7 cm.	Trace disseminated Py.			
182.0 - 183.0	Diatreme - moderate phyllic alteration	Unfractured core rounded to subangular Fragments of chert, Qtz. eye granite range from 1 - 7 cm.	Trace disseminated Py.			
183.0 - 184.0	Diatreme - moderate phyllic alteration	Unfractured core Rounded to subangular Fragments of chert, Qtz. eye Granite range from 1 - 7 cm.	Trace Disseminated Py.			
184.0 - 185.0	Diatreme - moderate phyllic alteration	Unfractured core Rounded to subangular Fragments of chert, Qtz. eye granite range from 1 - 7 cm.	Trace disseminated Py.			

METRES	ROCK TYPE & ALTERATION (core description)	STRUCTURE	MINERALIZATION	MLZN	RECOV.
185.0 - 186.0	Diatreme - moderate phyllic alteration	Unfractured core Rounded to subangular Fragments of chert, Qtz. eye granite range from 1 - 7 cm.	Trace disseminated Py.		
186.0 - 187.0	Diatreme - Moderate phyllic alteration	Unfractured core Rounded to subangular Fragments of chert, Qtz. eye granite range from 1 - 7 cm. (several 60° chlorite slips)	Trace disseminated Py.		
187.0 - 188.0	Diatreme - Moderate phyllic alteration	Unfractured core Rounded to subangular Fragments of chert, qtz. eye granite range from 1 - 7 cm. 8 cm. chert fragment well rounded	Trace disseminated Py.		
188.0 - 189.0	Diatreme - Moderate phyllic alteration	Unfractured core Rounded to subangular Fragments of chert, Qtz. eye granite range from 1 - 7 cm. (several 60° chl. slips)	Trace disseminated Py.		
189.0 - 190.0	Diatreme - Moderate phyllic alteration	Unfractured Core Rounded to subangular Fragments of chert, qtz. eye granite range from 1 - 7 cm.	Trace disseminated Py.		
190.0 - 191.0	Diatreme - Moderate phyllic alteration	Unfractured core Rounded to subangular Fragments of chert, Qtz. eye granite range from 1 - 7 cm. (Rounded Ryholite fragment)	Trace disseminated Py.		
191.0 - 192.0	Diatreme - Moderate phyllic alteration	Unfractured core Rounded to subangular Fragments of chert, qtz. eye granite range from 1 - 7 cm.	Trace disseminated Py.		

METRES	ROCK TYPE & ALTERATION (core description)	STRUCTURE	MINERALIZATION	MLZN	RECOV.	
192.0 - 193.-	Diatreme - moderate phyllic alteration	Unfractured core Rounded to subangular Fragments of chert, qtz. eye granite range from 1 - 7 cm.	Trace disseminated Py.			
193.0 - 194.0	Diatreme - moderate	Unfractured core Rounded to subangular Fragments of chert, qtz. eye granite range from 1 - 7 cm. Rounded 4 cm. Ryholite fragment	Trace disseminated Py.			

Property SIWASH SILVER

D.D.H. No. SS-21-81

Dip 45°

D.D.H. Grid Location Sandy Trenches

Elevation 4,400 feet

Azimuth 310°

Core Size BQ Total Depth 89.9 metres (295 feet)

METRES	ROCK TYPE & ALTERATION (core description)	STRUCTURE	MINERALIZATION	MBZN	RECOV.	
	<p>Diatreme</p> <p>Biotite Feldspar Porphyry</p>	<ul style="list-style-type: none"> - Alteration type varies from top bottom from a moderate to strong phyllic to a weak potassic in the first unit, and a moderate phyllic in the second unit. - Core is silicified and hosts sericite. - Medium green in color. - Disseminated and blebbed pyrite, ranging from 2 mm to 1 cm. - Very minor galena present in second unit. - Fragments are rounded to subangular and range from 1 - 5 cm in size and though common, they are not abundant. Fragment types are quartz-eye porphyry and rhyolite. - Texture is vuggy in appearance. <ul style="list-style-type: none"> - Alteration type is a local propylitic. - Quartz phenocrysts are up to 3 cm in size. Feldspar phenocrysts are up to 4 cm in size. Biotite ranges from trace to abundant gradationally. - Medium green in colour. 				

METRES	ROCK TYPE & ALTERATION (core description)	STRUCTURE	MINERALIZATION	MLZN	RECOV.	
0 - 7.9	Overburden.					
7.9 - 8			Strong dissem & bleb py.			
8 - 9	Diatreme - strong phyllic alteration.	Broken core; several chert (?) fragments &/or fracture fillings.				
9 - 10			Vuggy quartz vein, strong pyrite .5 cm wide at 65°.			
10 - 11			2 vuggy qtz veins, 5 mm wide at 50° & 60°. Strong py, trace dissem spec. Py filled frac at 50°.			
11 - 12		Chlorite slip at 10°, highly broken core, frags along 25°. 2 cm rounded qtz-f-spar frag.				
12 - 13		Frac along 60°.				
13 - 14		Frac along 10° & 40°.	2 cm qtz vein at 50°. Strong py; large blebs py along core.			
14 - 15		Frac along 20°.				
15 - 16		Coarse zones, vuggy in appearance.	5 mm qtz vein at 60° w/ strong py.			
16 - 17		5 mm gauge zone.				
17 - 18		30 cm gauge zone at 25°.				
18 - 19		Broken core, 2 - 5 cm.	2 - 5 cm broken qtz-py veins at 60°.			
19 - 20			3 - 2 cm vuggy qtz veins, strong py.			
20 - 21		Several large chert & qtz-eye frags. Broken, vuggy qtz vein at 60°.	Strong py along margins.			
21 - 22		Chlor slips & gauge zone along 25°.	5 cm py gauge. Py filled frags at 60°.			

METRES	ROCK TYPE & ALTERATION (core description)	STRUCTURE	MINERALIZATION	MLZN	RECOV.	
22 - 23	Diatreme - strong phyllic alteration.	Fractured along 50° & 15°.	Py along margins of several rounded Qtz-eye. Several .5 to 1.0 cm Qtz veins at 65° with strong py.			
23 - 24		Large subrounded chert clast. 5 mm gauge zone at 50°.	Minor dissem spec in clast. 2 cm wide py, pyrrhotite, Qtz vuggy vein at 60°. Several 2 mm Qtz, py veins at 80°.			
24 - 25		10 cm rounded diatreme clast frags along 30°.	Strong py in clast.			
25 - 26		Several chlor slips along 30°.				
26 - 27		Frags along 30° & 60°.				
27 - 28		Fractured along 10° & 40°.	Several small py veins.			
28 - 29		Broken & fractured core. Narrow gauge zone.	Highly broken, vuggy py, Qtz vein.			
29 - 30		Narrow zone of broken core. Chlorite slips at 30° & 60°.				
30 - 31		Same as above.				
31 - 32	Diatreme - strong phyllic alteration. Several small zones of potassic alt.	Weakly fractured along 30° & 60°.	Large py blebs.			
32 - 33		3 cm angular frag of rhyolite.	Py blebs in frag.			
33 - 34		Weakly fractured along 10°, 30° & 60°.				
34 - 35		Unfractured core.				
35 - 36		4 cm Qtz-eye (?) frag. Potassic alt around and in frag. Unfractured core.				
36 - 37		Several frags along 25°.	Narrow py, chlor gauge along 60°.			

METRES	ROCK TYPE & ALTERATION (core description)	STRUCTURE	MINERALIZATION	MLZN	RECOV.
37 - 38	Diatreme - strong phyllic alt. Several small zones of potassic alt.	3 cm chlor gauge at 30°.			
38 - 39		Unfractured core.			
39 - 40		Unfractured core. Several chlor slips along 30° w/ weak, local pot alt.	Small cube of galena in . Trace dissemin spec, hem.		
40 - 41	Same as above - local pot alt.	Broken core. Fracs 30° & 60°.			
41 - 42		2 cm gauge at 30°, 4 cm gauge zone at 25°.	1 cm py vein at 50°.		
42 - 43		Broken core.			
43 - 44	Contact between diatreme & Bio feldspar porph at 42.1. Prop alt.	Only trace bio in porph. Fractured core. Chlor gauge along contact. Brown-green core grades into prop alt. (pale green)			
44 - 45	Bio-f-spar porph. Prop alt.	Trace bio, f-spar phenos appear subrounded.			
45 - 46	Bio-f-spar porph. Prop alt decreases.	Bio concentration increases.			
46 - 47		Unfractured core.			
47 - 48					
48 - 49	Bio-f-spar porph. 50 cm zone of prop alt.	Several small chlor gauge zones. Trace bio.			
49 - 50		Several small chlor slips at 10°. Abundant bio.			
50 - 51		3 small chlor slips at 50°.			
51 - 52		Unfractured core. Several small chlor slips at 50°.			
52 - 53		Several small chlor slips at 40° & 60°.			
53 - 54		2 chlor gauge zones, 1 at 30° to core.			
54 - 55		Unfractured core.			
55 - 56		Chlor slips at 60° & 80°.			

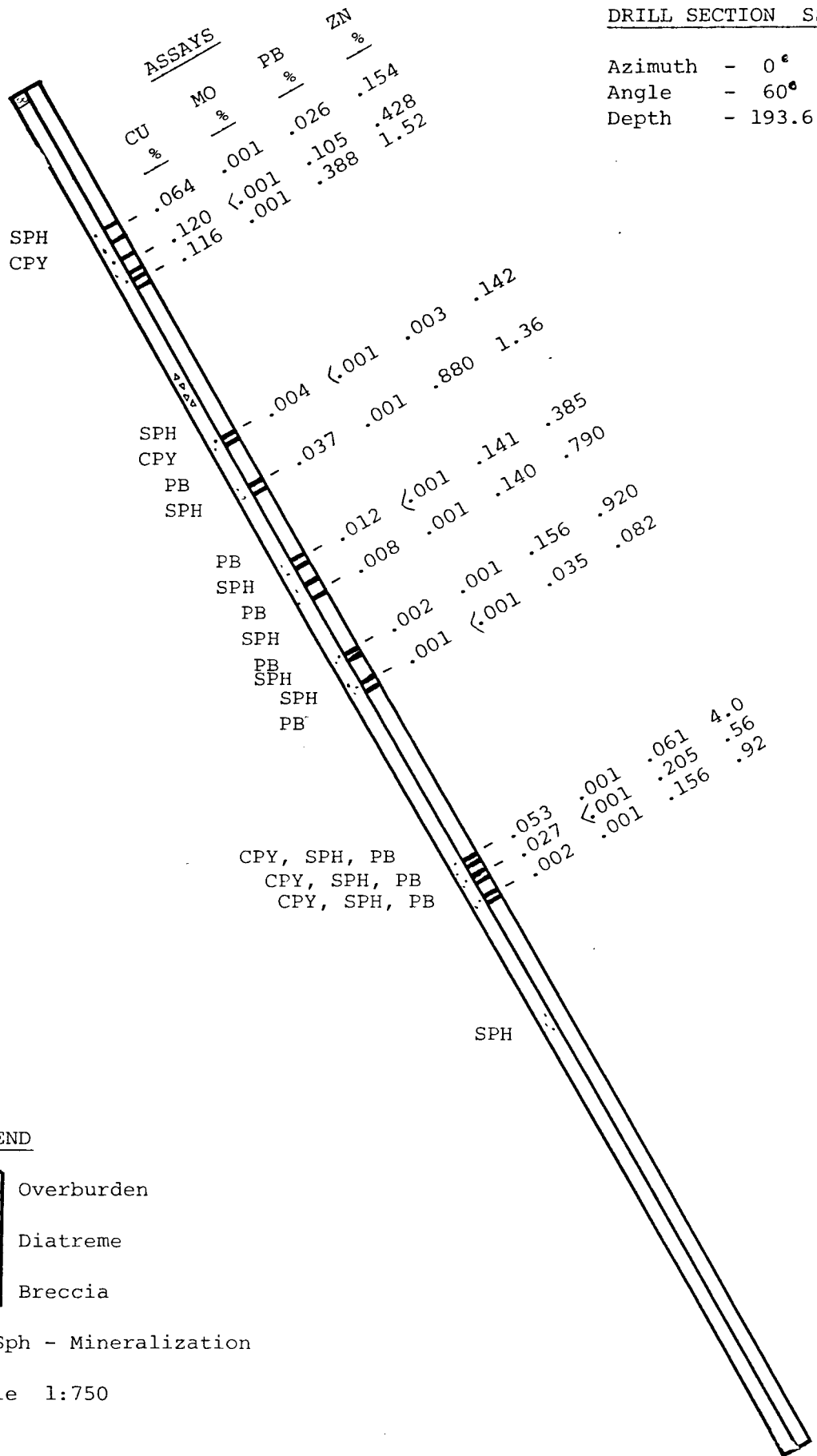
METRES	ROCK TYPE & ALTERATION (core description)	STRUCTURE	MINERALIZATION	MLZN	RECOV.
56 - 57	Bio-f-spar porph. 50 cm zone of prop alt.	Unbroken core.	Very minor dissem py at 56.7. Limonite staining as blebs.		
57 - 58		Unfractured core.	Minor dissem py. Limonite decreases gradationally.		
58 - 59		Unfractured core.	Minor dissem py. Minor limonite.		
59 - 60	Bio-f-spar porph. Prop alt increases.	2 mm calcite vein at 65°. Unfractured core.	Minor dissem py.		
60 - 61	Bio f-spar porph. Prop alt decreases.	Chlor slips at 55°. Unfractured core.	Minor dissem py.		
61 - 62	Contact between bio porph & diatrema between 61.5 & 61.7.	Brecciate qtz vein w/ rounded qtz & py frags right at contact. Chlor gauge zone.	Dissem & bleb py.		
62 - 63	Diatreme. Mod phyllic alt.	1 cm py, qtz gauge zone at 30°. 2 py gauge zones at 30°. 3 qtz veins at 30°, one w/ py.	Dissem & bleb py.		
63 - 64		Unfractured core.	Dissem & bleb py.		
64 - 65		Chlor slips at 30°. 2 cm highly chloritized chert (?) zones at 40°.	Dissem & bleb py.		
65 - 66		Slip at 50° to core. Unfractured core. Texture takes on a vuggy appear- ance.	Dissem & bleb py. 1 cm 1 cm qtz, py vein along 30°.		
67 - 68		Slip zones at 30° & 60°.	2 cm qtz, py vein in slip zone. Dissem & bleb py.		
68 - 69		2 mm barren qtz vein along 90°. Slip zones along 30 & 60°.	Dissem & bleb py. Very minor dissem galena (?).		
69 - 70		Unfractured core.			
70 - 71		Unfractured core. 3 cm py gauge zone at 30°. Slip zone along 30°.	Same as above.		

METRES	ROCK TYPE & ALTERATION (core description)	STRUCTURE	MINERALIZATION	MLZN	RECOV.	
71 - 72	Diatreme. Mod phyllic alt w/ increased chlor.	Slip zones along 30°.	Dissem & bleb py. Very minor dissem galena (?).			
72 - 73	Same as above. Decreased chlorite.	Unfractured core. 5 cm long diatreme clast.				
73 - 74		Slip zones along 40°.				
74 - 75		Slip zone along 45°.				
75 - 76		Unfractured core. 1 cm wide gauge zone along 55°.				
76 - 77		Frac along 30°.	Dissem & bleb py. Py & galena on frac.			
77 - 78		Unfractured core.	Dissem & bleb py. Very minor dissem galena.			
78 - 79	Diatreme. Phyllic alt w/ minor chlor.	Unfractured core.	Dissem & bleb py. Very minor dissem galena. 3 mm py vein with minor galena along 30°.			
79 - 80		Fractures along 30°.	Dissem & bleb py. Py on one fracture.			
80 - 81		Slip zone along 10°.	Dissem & bleb py. Very minor dissem galena.			
81 - 82		Fracs along 30°.				
82 - 83		Texture very vuggy in appearance. 2 cm chloritized gauge zone. Slip zones along 50°.				
83 - 84		Fracture along 30°.				
84 - 85		2 fracs along 40 & 50°.				
85 - 86			Same as above. Minor dissem Mo.			
86 - 87		Fracs along 70°.	Dissem & bleb py. Very minor dissem galena.			
87 - 88		Unfractured core.				
88 - 89		Unfractured core. 3 cm diatreme frag.	Dissem & bleb py.			
89 - 89.9		Unfractured core. 5 mm qtz, py vein at 60°.				
89.9	END OF HOLE					




APPENDIX IV

DRILL SECTION SS-20-81

Azimuth - 0°
 Angle - 60°
 Depth - 193.6 M



LEGEND

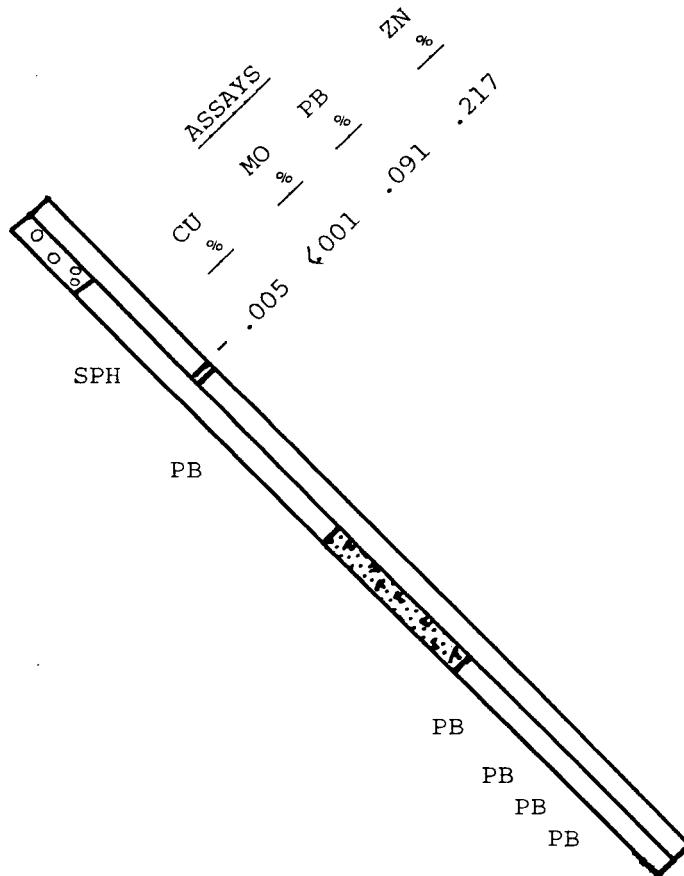
-  Overburden
-  Diatreme
-  Breccia

Cu Sph - Mineralization




Scale 1:750

DRILL SECTION SS-21-81

Bearing - 310°
Dip - 45°
Depth - 89.9 M



LEGEND

-  Overburden
-  Diatreme
-  Biotite Feldspar Porphyry

PB Mineralization

Scale 1:750

APPENDIX V

Statement of Costs

1) Diamond Drilling

July 4 to July 10, 1981; 7 days;
284 metres @ \$94.31/metre
(930 feet @ \$28.76/foot) \$26,746.69

2) Salaries and Wages

Geologist, July 4 to July 10, 1981;
7 days @ \$86.00/day 602.00

Student, July 4 to July 10, 1981;
7 days @ \$53.00/day 371.00


Total \$27,719.69

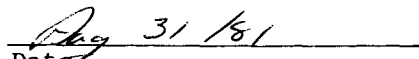
APPENDIX VI

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.


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.

