

REPORT ON DIAMOND DRILLING

- on the -

DOME CLAIM GROUPS

Clinton Mining Division  
British Columbia

7512 - for - 1 of 2

BLACK DOME EXPLORATION LTD.,  
904-675 West Hastings Street,  
VANCOUVER, B. C. V6B 1N2.

COVERING: Dome #1 (6 units), Dome #2 (12 units),  
Dome #7 (9 units), Dome #9 (12 units),  
Black Dome #1-#4 (4 old 2-Post Claims).

WORK PERFORMED: May 1st. to October 23rd., 1979.

LOCATION: (1). 51°20'N; 122°29'W.  
(2). NTS. MAPS 92 O/8W & 92 O/7E.  
(3). At Black Dome Mountain, 71 km. WNW  
of Clinton, B. C.

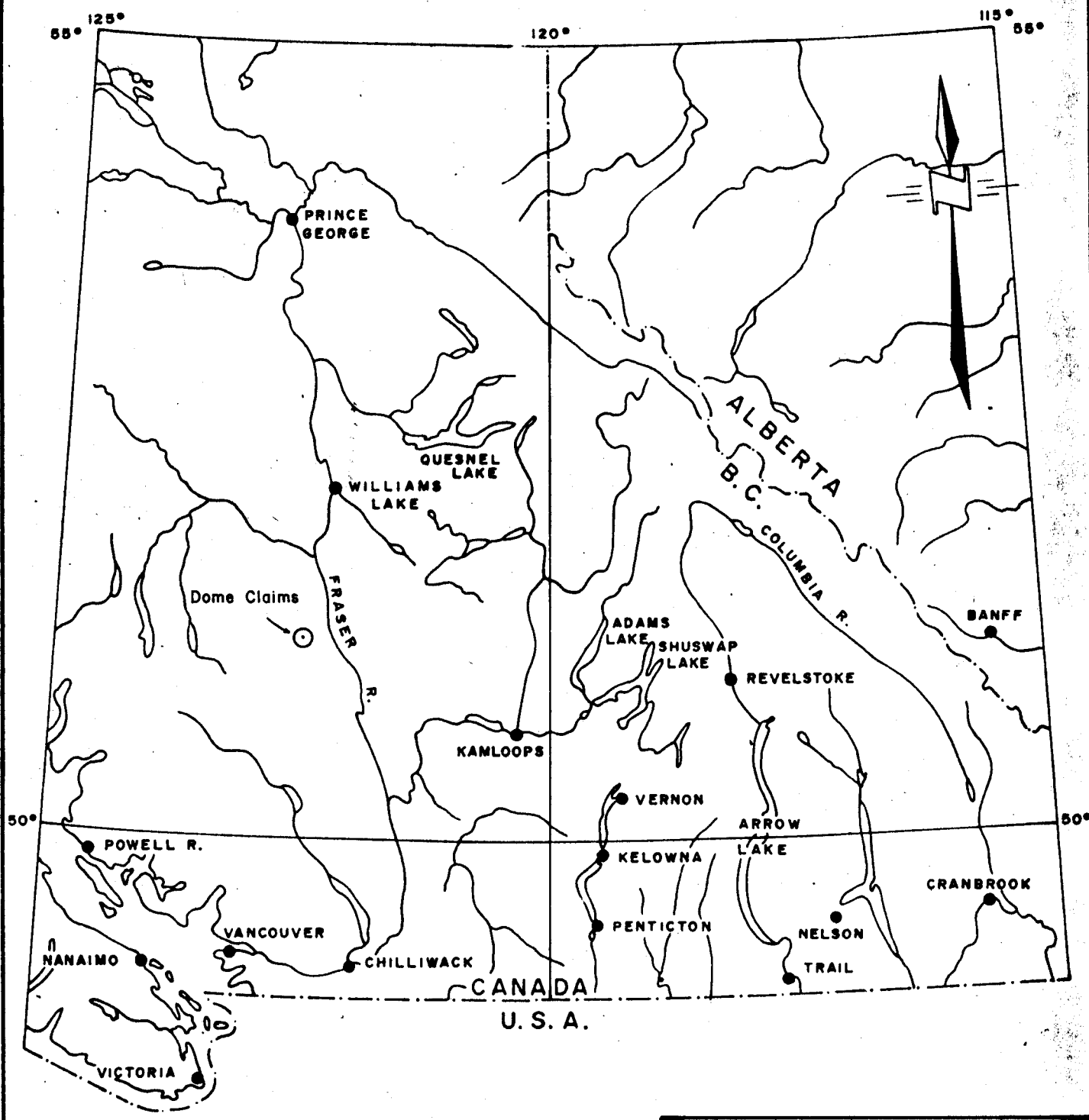
PREPARED BY:

KERR, DAWSON & ASSOCIATES LTD.,  
#1-219 Victoria Street,  
KAMLOOPS, B.C.

J. M. Dawson, P.Eng.,  
November 27, 1979.

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BLACK DOME EXPLORATION LTD.	
LOCATION MAP	
DOME CLAIMS	
CLINTON MINING DIVISION, B.C.	
Date: December, 1978	Scale: 1" = 64 Miles
Dwn by: W. G.	Dwg no. 161-1

## INTRODUCTION

The Black Dome property has been subjected to a systematic exploration programme since 1977.

The 1979 drilling is part of a continuing programme to fully evaluate the economic potential of the property.

Results of this drilling are appended in a series of logs with assays from sampled sections.



PROPERTY

The property consists of 8 contiguous metric claims totalling 97 units, 4 old 2-Post claims and 10 crown granted claims. The metric claims overlie the other two sets of claims (see figure 161-2).

Claim data is as follows:

## (1). Metric Claims:

DOME "C" GROUP

<u>Claim Name</u>	<u>Record No.</u>	<u>Tag No.</u>	<u>Expiry Date</u>
Dome #3	119	42762	August 16/83
Dome #6	120	36053	September 13/83
Dome #8	262	37041	October 27/79

DOME "D" GROUP

Dome #1	117	42615	August 16/85
Dome #2	118	42761	August 16/85
Dome #7	121	36054	September 13/85
Dome #9	263	37042	October 27/79

UNGROUPED CLAIM

Dome #10	320	45470	April 11/80
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## (2). Located 2-Post Claims:

BLACK DOME GROUP

Black Dome #1	6925	May	15/85
Black Dome #2	6926	May	15/85
Black Dome #3	6927	May	15/85
Black Dome #4	6928	May	15/85

## (3). Crown Granted Claims:

<u>Claim Name</u>	<u>Lot No.</u>	<u>Under Surface Rights No.</u>	<u>Taxes Due</u>
Moosehorn	7871	62224E	July 1/80
Saddle	7872	62227E	July 1/80
Whisky Pack	7873	62222E	July 1/80
Pinion Pine	7874	62223E	July 1/80
Electrum Fraction	7875	62226E	July 1/80
Bonanza	7876	62229E	July 1/80
Eldorado	7877	62228E	July 1/80
Black Dome	7878	62221E	July 1/80
Ptarmigan	7879	62220E	July 1/80
Sugar Bowl Fract- ion	7880	62225E	July 1/80

The work described in this report was confined to the Dome "D" group and the Black Dome group.

LOCATION AND ACCESS

The property is located in south-central British Columbia about 70 kilometers west-northwest of the village of Clinton. The approximate center of the claim block is at  $51^{\circ}20'$  north latitude and  $122^{\circ}29'$  west longitude.

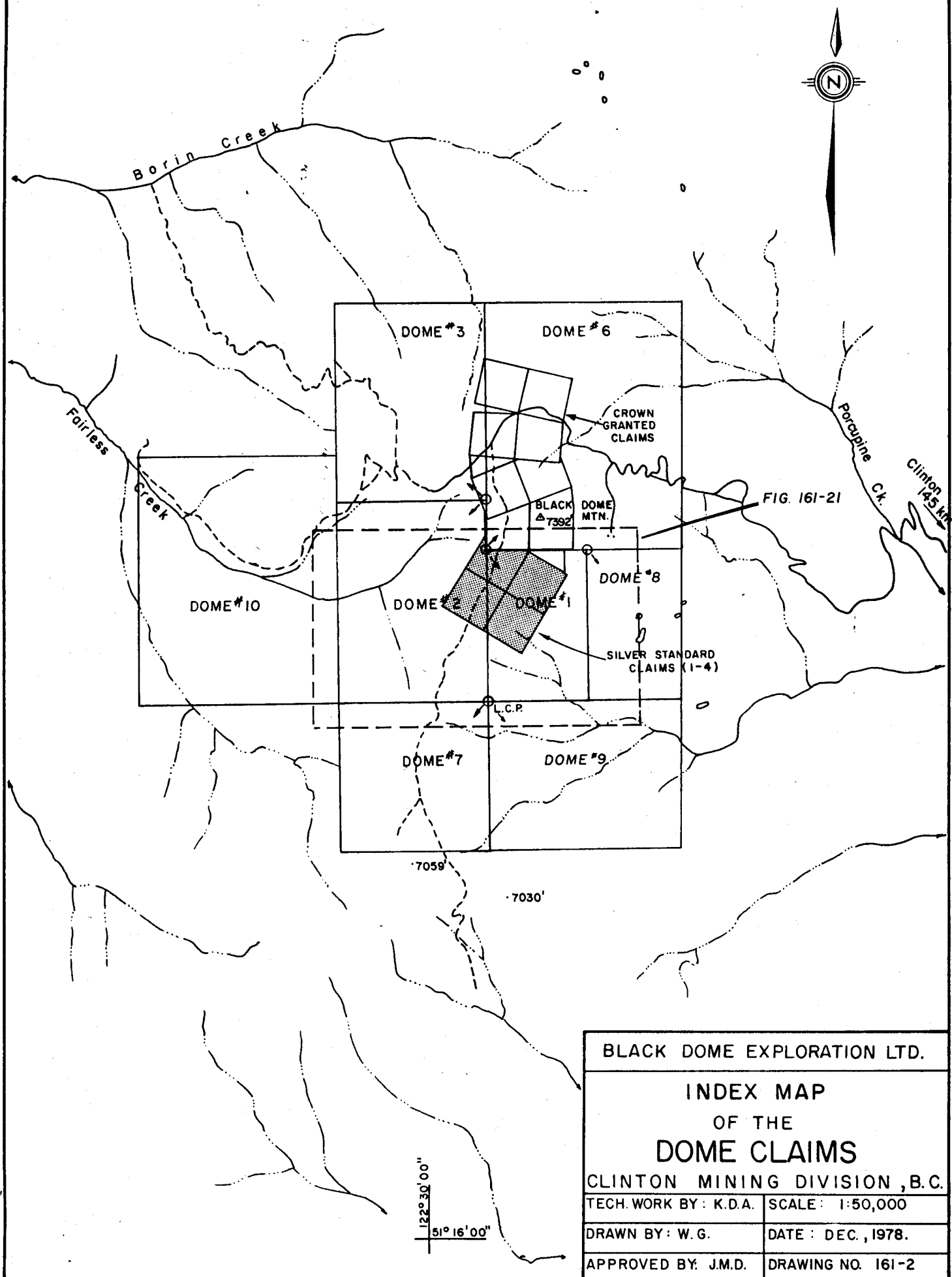
The area is accessible via about 150 kilometers of gravel road which leads west from Route 97 about 18 kilometers north of Clinton.

Most of the property is easily accessible along old cat roads or on foot through the fairly open bush.

## HISTORY

Gold was discovered at Black Dome Mountain in the late 1940's and during the 1950's and early 1960's a fairly detailed programme of mapping and sampling with limited drilling and tunnelling was carried out by Empire Valley Mines and Silver Standard Mines. Most of this work was confined to veins outcropping on the upper slopes of Black Dome Mountain.

In 1977 and 1978 Barrier Reef Resources commenced a detailed re-evaluation of the gold mineralization at Black Dome Mountain. Extensions of the known mineralization were found to the south and detailed trenching and sampling was undertaken to more fully evaluate this area. This zone was extensively tested by diamond drilling during the 1979 field season.



BLACK DOME EXPLORATION LTD.	
<b>INDEX MAP OF THE DOME CLAIMS</b>	
CLINTON MINING DIVISION, B.C.	
TECH. WORK BY: K.D.A.	SCALE: 1:50,000
DRAWN BY: W.G.	DATE: DEC., 1978.
APPROVED BY: J.M.D.	DRAWING NO. 161-2

GEOLOGY

The Black Dome district is underlain by a sequence of Tertiary volcanic rocks which range in composition from basalt to rhyolite. Total thickness of the section is unknown but certainly exceeds 600 meters. The rocks are domed into a shallow, gently north-northeasterly plunging anticline. Zones of tension fractures caused by this doming are the loci for epithermal silver-gold mineralization. Later block faulting has caused considerable dislocation of individual rock units.

Surface exposures suggest a natural three-fold division into (1) a lowermost unit of rhyolitic flows, fragmentals, and associated volcanoclastic sediments (2) a central unit consisting of fairly uniform, porphyritic andesite and ? dacite and (3) an uppermost unit of basalt.

### MINERALIZATION

Gold and silver mineralization is associated with a series of north-northwesterly trending quartz veins. These veins are typical of very low temperature epithermal systems displaying vugs, cockade and comb textures. Often 25 to 50% of the vein consist of stoped pieces of wall rock.

The only metallic minerals visible are minor fine grained pyrite, native gold and ? very minor silver sulphosalts.

Although the vein systems can be traced for about 5 km. along strike, gold silver values are very erratic and extensive drilling and sampling at closely spaced intervals will be required to fully delineate ore shoots.

DRILLING PROGRAMME

A total of            meters of core drilling was carried out in 36 holes. All this drilling was performed on the southern extension of the Number One vein. The drilling extended over roughly 1,600 meters of strike length on this vein (see figure 161-21).

The core was logged and suspected mineralized sections were split, sampled and assayed for gold and silver by either geochemical methods or by fire assay.

Typed drill logs with assay values are appended to this report.



SUMMARY AND CONCLUSIONS

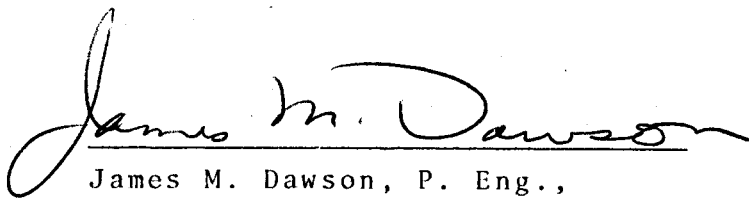
Drilling has confirmed a number of factors:

- (1). The Number One vein is very consistent in strike and dip and has not been displaced by any later faulting.
- (2). Fault gouge zones in the vicinity of the mineralized zone are the only sections which give persistently poor core recovery.
- (3). Gold and silver values are very sporadic and very close sampling will be necessary to accurately measure the grade.

Respectfully submitted By:

KERR, DAWSON & ASSOCIATES LTD.,



  
James M. Dawson, P. Eng.,  
GEOLOGIST

Kamloops, B. C.,

November, 1979.

APPENDIX A

DRILL LOGS



PROPERTY BLACK DOME HOLE No. DDH-1 SHEET No. 2 of 4

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE		Au(g/t)	Ag (g/t)
12.5-13.7m	0.1m	Pale green-gray to brownish volcanoclastic sediment (?)					
		- fragments 1mm → 1.5 cm (average < 1 cm)	20205	13.5-14.5 (1m)		0.14	19.89
		- quite massive due to some silicification					
		- 2 to 3 quartz veinlets/meter					
13.7-17.5m		Massive, silicified (+ brecciated) zone with visible gold, electrum and silver sulphosalts.					
		- pale green to brownish color	20206	14.5-15.5 (1.0m)		81.60	215.32
		- some good breccia textures seen in places	20207	15.5-16.5 (1.0m)		55.89	69.94
		- drusy cavities noted in several places.	20208	16.5-18.5 (2.0m)		0.51	15.09
		- intense stockwork from 14.6-14.9 meters (intermittant)					
		- very fine grained pyrite seen in places (< 0.5%)					
		- free gold (+ gray patches of silver sulphosalts) and electrum were noted from 14.7 m- 15.7m.					
		NOTE: Core ground between 14 - 15 m showed electrum and free gold.					
		- massive quartz (10 cm) @ 17.5 meters.					
		- core ground between 16.5-17.5 meters.					
17.5-31m	0.2m	Pale green-gray siliceous zone with variable quartz stockwork and sericitic alteration.	20209	18.5-23.5 (5m)		0.27	4.11
			20210	23.5-28.5 (5m)		< 0.07	2.06
		- quartz stockwork from 17.5-23.2 with veinlets from hairline to 1/2 cm thick.)	20211	28.5-31.5 (3m)		< 0.07	1.37
		- quartz veinlet counts from 9-18/meter (in stockwork area).	20212	31.5-36.5 (5m)		< 0.07	1.37

# KERR-DAWSON & ASSOCIATES LTD. - DIAMOND DRILL RECORD

1 - 210 Victoria St.  
Kamloops, B.C.  
Phone 374-0544

PROPERTY BLACK DOME

HOLE No. DDH-1

SHEET No. 3 of 4

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
17.5-31m	0.2m	- drusy cavities still seen occasionally						
		- rusty coated fractures, common-most at 45-60° to core axis.						
		- much of this section is composed of an amorphous pale green, soft assemblage (sericite?) with some quartzose lenses.	20213	36.5-38.5(2m)			0.07	1.37
		- some of this material is buff colored due to limonite coloration.						
		- local brecciated areas @ 23.2m-25m; 27-27.5m much of which contains altered (sericitic) fragments.						
		- a few fragments of brecciated material show a vague striped appearance suggestive of an originally volcanic breccia that has been intensely altered.						
		- majority of core (except stockwork area) has veinlet counts of 3-4/meter.						
		- very minor pyrite noted; no visible gold or silver.						
31m-38.4	≤ 1/2m	Pale green-gray breccia zone						
		- less altered (sericitic) than above section						
		- fragments from 1/2 cm to 5 cm across						
		- most fragments are very angular						
		- best breccias (coarsest) from 34.2m-35.5m						
		- often the fragments are variable altered to sericite + kaolin and are quite soft (as above)						

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1 of 2



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Kamloops, B.C.  
Phone 374-0544

PROPERTY.....BLACK DOME.....

HOLE No. DDH-2.....

DIP AND AZIMUTH TEST		
Corrected		
Footage	Angle	Azimuth
108.2m	-46°	

Core Size .....BQ.....  
 Angle of Hole .....45°.....  
 Claim.....Dome #2.....  
 Section.....  
 Bearing .....105°.....

Total Depth .....108.2m.....  
 % Recovery .....91.2%.....  
 Elev. Collar .....2010.5.....  
 Latitude .....12+95S.....  
 Departure .....2+78W.....

Sheet No .....1..... of .....8.....  
 Logged by W. Gruenwald.....  
 Date Begun July 5/79.....  
 Date Finished July 11/79.....  
 Core Stored At BAF WHSE.....

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au(oz/t)	Ag(oz/t)
0-3.5m	3.4m	Casing to 3.5 meters. - chips recovered are pale red-brown ash and porphyritic andesite.				
3.5-11.9m	0.7m	Volcaniclastic Breccia (variably colored) - fragments are subangular to subrounded and range in size from 2 mm to 5 cm. - breccia is non sorted or bedded. - many fragments are partially or wholly altered to amorphous white → buff clay minerals. - some fragments show definite volcanic texture (ie-fine laminae of ash beds or ignimbrite). - most conspicuous fragments are the pinkish to purplish striped felsic volcanics (ie.rhyolite) - limonite fractures common due to surface water weathering of fine grained pyrite found in many of the rhyolitic fragments. - locally breccia is bleached and soft. ie.5.6-6.0m 8.9-9.4m; brown med. grained "grit" or graywacke containing pyritic, pinkish, striped felsic volcanic fragment at top 0.1m.	20214 20215 20216 20217 20218 20219 20220 20221	4.1-4.3m (0.2) 5.7-5.9m (0.2) 6.7-6.9m (0.2) 7.7-7.9m (0.2) 8.7-8.9m (0.2) 9.7-9.9m (0.2) 10.7-10.9 (0.2) 11.7-11.9m(0.2)	<0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002	<0.02 0.02 <0.02 0.07 0.02 <0.02 <0.02 <0.02







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PROPERTY BLACK DOME

HOLE No. DDH-2

SHEET No. 4 of 8

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE		Au(oz/t)	Ag(oz/t)
38.1-46.3	3m (1.4m)	Grayish-Green Breccia with Minor Quartz Veinlets.					
		- generally a finer grained breccia with rusty	20249	42.1-42.3 (0.2m)		< 0.002	0.02
		fractured sections (generally @ 30-45° to C.A.)	20250	43.1-43.3 (0.2m)		< 0.002	0.02
		- few large fragments consist of pale purplish-	20251	44.2-44.4 (0.2m)		< 0.002	0.04
		green fine grained volcanic with small patches of					
		pyrite cubes.					
		- 8 quartz veinlets over 8.5m length - most @					
		0-20° to C. A.					
		- end of section well fractured and rusty +	20252	45.0-46.3 (1.3)		< 0.002	< 0.02
		ground up core.					
46.3-48.0	0 (0.8m)	Possible fault Zone and highly altered, dark					
		green-blue breccia.					
		- 46.3-47.2, lost 0.75 m, recovered 0.15m	20253	46.3-47.2 (0.9m)		< 0.002	0.03
		of mud with few pebbles of breccia.	20254	47.2-48.7 (1.5m)		0.002	0.03
		- 47.2-48.0m - dark green, blue, highly altered					
		soft breccia, below possible fault zone.					
48.0-53.5	5m (0.1m)	Light brown to green breccia.	20255	48.7-48.9 (0.2m)		< 0.002	0.05
		- 48.0-50.6, light brown, small fragments.	20256	49.7-49.9 (0.2m)		< 0.002	0.03
		- 50.6-53.5, light green breccia, with larger clasts	20257	50.7-50.9 (0.2m)		< 0.002	0.02
		also more altered and pyritic than brown section.	20258	51.7-51.9 (0.2m)		< 0.002	< 0.02
		- one quartz veinlet over 5.5 m.	20259	52.7-52.9 (0.2m)		< 0.002	0.02
			20260	53.7-55.6 (1.9m)		< 0.002	0.06

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PROPERTY BLACK DOME

HOLE No. DDH-2

SHEET No. 5 of 8

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE		Au(oz/t)	Ag(oz/t)
53.5-55.6	(0.0m)	Altered zone with core of well developed green-blue breccia.					
		- 53.5-54.25 - soft, crumbly and limonite stained.					
		- 54.25-54.55 - more massive, breccia well developed.					
		- 3 quartz veinlets over 2.1 m.					
		- pyrite locally abundant as 1-2 mm cubes (2-3%).					
55.6-56.0	(0.0m)	Silicified and Limonitic breccia.					
		- drusy cavities and quartz around fragments	20261	55.6-56.4 (0.8m)		0.002	0.02
		- upper contact 20-25° to C.A.					
56.0-60.5	(0.1)	Pale Gray-Brown, fine Grained Breccia.					
		- few fragments > 1 cm.	20262	57.3-57.5 (0.2m)		0.002	0.02
		- some clasts show fine laminae of reddish ignimbrite or rhyolitic "tuff" (?)	20263	58.3-58.5 (0.2m)		0.002	0.03
		- 4 quartz veinlets over 4.5 m.	20264	59.3-59.5 (0.2m)		0.002	0.06
		- last 0.2m ground up - some drusy quartz.	20265	60.3-60.5 (0.2m)		0.002	0.03
60.5-65.5	(4.85m)	Possible Fault Zone (Ground(core + mud)					
		- lost core 60.5-62.5					
		- 62.5-62.8m (0.15m) of rusty white, altered sediment?					
		- 62.8-65.5m (0.9m) of pale green-gray quartz stockwork in breccia (30 veinlets in 2.7m)	20266	62.5-65.5 (3m)		0.002	0.04
		- few drusy cavities, locally pyritic 1-2%.					
65.5-71.7	(0.1m)	Light Purplish to Brown, Mottled Volcanic Breccia. (Ignimbrite Fragmental?)					
		- fragments primarily consist of purple and white striped fine grained volcanic rock showing	20267	65.5-66.7 (1.2m)		0.002	0.03

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PROPERTY BLACK DOME

HOLE No. DDH-2

SHEET No. 6 of 8

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE		Au(oz/t)	Ag(oz/t)
65.5-71.7	7m	delicate laminae, often contorted and finely fractured.	20268	67.6-67.8 (0.2m)		0.002	0.03
		- upper contact pale green "talcose" (20 cm) may be fault contact.	20269	68.6-68.8 (0.2m)		0.002	0.02
			20270	69.6-69.8 (0.2m)		0.002	0.02
			20271	70.6-70.8 (0.2m)		0.002	0.02
		- limonitic fractures still quite abundant					
		- 30-45° to C. A.					
		- few thin quartz veinlets (1-2 mm) $\approx$ 1 to 2/meter.					
71.7-77.2	2 (0.0m)	Pale Brown to Greenish Bleached Breccia.	20272	73.6-73.8 (0.2m)		0.002	0.04
		- original texture virtually obliterated, core soft and amorphous (abundant clay minerals)	20273	74.6-74.8 (0.2m)		0.002	0.02
		- 1 quartz veinlet noted over section.	20274	76.6-76.8 (0.2m)		0.025	0.08
77.2-77.8	8 (0.0m)	Purplish, Coarse Breccia (Less Altered)					
		- volcanic fragments much more evident ( $\geq$ 1 cm long)					
		- minor pyrite (< 1%); no quartz veinlets	20275	77.6-77.8 (0.2m)		0.035	0.10
77.8-81.3	3 (0.0m)	Pale Brown-Green, Finer Grained Bleached Breccia.					
		- soft, altered, textures vague.					
		- 80.1-80.6 - intercalated lense of coarse grained breccia @ 30° to C. A.	20276	79.6-79.8 (0.2m)		0.002	0.02
			20277	80.8-81.3 (0.5m)		0.002	0.04
		- no quartz veinlets.					
		- 80.8-81.3 very large fragments showing boudinage texture in fine laminae. (volcanic fragments).					

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PROPERTY BLACK DOME

HOLE No. DDH-2

SHEET No. 7 of 8

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE		Au(oz/t)	Ag(oz/t)
81.3-93.1	1 (0.0m)	Very Pale Green-Gray to Green Brown, Moderately Well Bedded Volcaniclastics (Fine Grained)	20278	82.9-83.1 (0.2m)		< 0.002	0.02
		- fragments are almost entirely < 1cm, consisting of 3-4 volcanic rock types.	20279	84.8-85.1 (0.3m)		< 0.002	0.04
			20280	88.2-88.4 (0.2m)		< 0.002	0.03
		* Pale Green Siltstone Lenses at:					
		- 82.7m @ 40° to C.A.; 84.3-84.4 @ 40° to C.A.;	20281	90.2-90.4 (0.2m)		< 0.002	0.04
		85.7-85.9 @ 40° to C.A.	20282	91.1-91.7 (0.6m)		< 0.002	0.02
		- At 86-91m noted several beds of arkosic or graywacke material @ 40-45° to C.A.					
		* - 90.2-90.6 - noted irregular patches of quartz + calcite + epidote.					
		- 91.0-93.1 - moderately well bedded "grit" consisting of white to buff "clayey fragments" in a dark gray to black matrix.					
		- no quartz veinlets in this section.					
93.1-107.3	3 (0.0m)	Pale Green-Brown, Massive, Fine Grained Volcaniclastics with Local Breccia Zones.					
		- fine grained, massive sections consist of small (1-2mm) buff crystals of feldspar (altered) set in a green chloritic groundmass; (ANDESITIC TUFF?)	20283	93.1-94.4 (1.3m)		< 0.002	0.05
		- vague alignment of feldspars, 20-40° to C. A.	20284	94.4-95m (0.6m)		0.003	0.04
		- noted deep red jasperoidal material as fracture fillings along with quartz + calcite + epidote	20285	96.4-96.6 (0.2m)		< 0.002	0.03
		and small blebs and cubes of pyrite.	20286	98.4-98.6 (0.2m)		< 0.002	0.02
			20287	100.7-102 (1.3m)		< 0.002	0.02
		These fractured zones noted above are from 0° to 25° to C. A.	20288	104-104.2 (0.2m)		< 0.002	0.03



# KERR—DAWSON & ASSOCIATES LTD. - DIAMOND DRILL RECORD

Suite 1 - 219 Victoria St.  
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Phone 374-0544

PROPERTY.....BLACK..DOME.....

HOLE No. ....DDH-3.....

DIP AND AZIMUTH TEST		
Corrected		
Footage	Angle	Azimuth

Core Size .....BQ.....  
 Angle of Hole .....45°.....  
 Claim.....Dome #2.....  
 Section.....  
 Bearing .....105°.....

Total Depth .....50.3m.....  
 % Recovery .....98.2%.....  
 Elev. Collar .....2010.1.....  
 Latitude .....13+04S.....  
 Departure .....2 + 51W.....

Sheet No .....1..... of .....5.....  
 Logged by .....W. Gruenwald.....  
 Date Begun .....July 12/79.....  
 Date Finished .....July 17/79.....  
 Core Stored At .....BAF WHSE.....

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
0-3.7m		Casing - few pieces recovered are white, fine grained, altered rhyolitic tuff (ash?)						
3.7-4.4m	0.1m	Light Gray, Fine Grained, weakly Silicified Rhyolitic Tuff(?) - fragments generally, < 0.5 cm, alteration to clay minerals is pervasive. - minute quartz veinlets abundant > 10/meter and generally at 45-60° to core axis. (C.A.)						
4.4-17.7m	0.2m	Gray, Altered, weakly Silicified, Altered, Coarse Rhyolitic Breccia. - consists of subangular fragments (1-5 cm across) that are a mottled, white, light gray and pale green in a finer grained matrix of quartz, feldspar and rock fragments. - the soft pale green alteration mineral (clays?) in the fragments extends to 10.7m at least. - only unaltered remnant of fragments is pale gray quartz (phenocrysts?) - a few fragments from 10-17m appear to have the	20291 20292 20293	5-10m 10-15m 15-20m	(5m) (5m) (5m)		0.069 0.069 0.069	3.43 2.06 1.37

# KERR-DAWSON & ASSOCIATES LTD. - DIAMOND DRILL RECORD

Victoria  
Kamloops, B.C.  
Phone 374-0544

PROPERTY BLACK DOME

HOLE No. DDH-3

SHEET No. 2 of 5

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE		Au(g/t)	Ag(g/t)
4.4-17.7m		fine laminae of ignimbrites.					
		- 4.4-7.4m - quartz veinlets (< 1mm) - 10 per meter.					
		- many are at 15-20° to C. A.					
		- rusty fractures are common, often @ 20-40° to C. A.					
		- near end of section the fragments have a spotted appearance due to oxidation of small pyrite cubes					
		- 15m - 17.7m - more intensely fractured and rusty					
		last 20 cm is well broken and partially ground up.					
17.7-24.2m	0.1m	Very Pale Gray to White, Highly Altered Rhyolitic Breccia.					
		- nearly pure white in much of section; can see vague outlines of original fragments.	20294	20-24.2 (4.2m)		40.069	4.80
		- noted several ignimbritic fragments.					
		- rusty fractures still quite common.					
		- 14 quartz veinlets over 6.5m or ~ 2/meter.					
		- good quartz veinlets with drusy cavities @ 19.8 and 20.75m that are 60° to C. A. - most of small veinlets are 20-30° to C. A.					
24.2-28.8m	0m	Gray, Green, weakly Bedded Polymictic Breccia (Pyritic) Bounded by Pale Gray-Brown, Hard Crystal Tuff (?)					
		- 24.2-25.8m - finer grained portion of section, very hard with vague bedding.	20295	24.2-28.8 (4.6m)		40.069	1.03



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PROPERTY BLACK DOME

HOLE No. DDH-3

SHEET No. 3 of 5

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
24.2-28.8m		- crystals of quartz and feldspar seldom > 3 mm and generally $\leq$ 1 mm make up the upper part of this sequence.						
		- upper contact irregular, few large fragments contact $\approx$ 35-40° to C. A.						
		- 12 thin (1-2mm) quartz veinlets over 1.6m length grades into a well developed breccia - contact 25-30° to C.A.						
		- 25.8-28.8m - good example of polymictic breccia fragments. 2 mm - 15 cm, average 0.5-1 cm, subangular - subrounded.						
		- rhyolitic fragments (several types) + quartz and feldspar make up majority of rock.						
		- bedding noted in sand sized lenses in breccia @ 25-30° to C. A.						
		- pyrite disseminated in matrix and fragments, locally to 3-4%, average 1-1.5%, 10 quartz veinlets noted over 3 m.						
		- 28.6-28.8m - pale brown, massive, hard, fine grained crystal tuff (?) as noted at top of section.						
28.8-36.6m (0m)		Pale Gray to White, Very Hard, Massive, weakly Silicified, Bleached Breccia.						
		- fragments < 0.5 cm - 5 cm, probably originally polymictic.						

# KERR-DAWSON & ASSOCIATES LTD. - DIAMOND DRILL RECORD

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PROPERTY BLACK DOME

HOLE No. DDH-3

SHEET No. 4 of 5

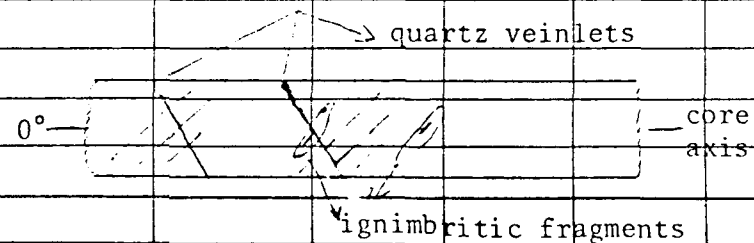
DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
28.8-36.6m		- may be bleached and silicified equivalent of above section.	20296	28.8-32m	(3.2)		<0.069	0.69
		- rusty fracturing still common, pyrite < 1%.	20297	32-36.6m	(4.6m)		<0.069	1.37
		- breccia texture easily evident @ 34.3-35.1.						
		- approx. 6 quartz veinlets /meter; mainly 40-55° to C. A.						
36.6-38.3m (0.6m)		Possible Fault Zone (Mud Seam) in Breccia (?)						
		- 36.6-37 - ground up core, recovered pieces of highly fractured and rusty breccia (proximity to fault?)	20298	36.6-38.3	(1.7m)		<0.069	2.74
		- 37.0-37.5 - Lost All Core - Fault? "Mud Seam"						
		- 37.5-38.3 - Dark green, fine grained chloritic rich zone (altered dyke near fault?)						
		- numerous rusty fractures 25-40° to C. A.						
		- section is crumbly and soft near above mud seam.						
		- grades into section below.						
		- 8 quartz veinlets /1.7 meters.						
38.3-40.6m (0.1m)		Pale Brown, weakly Altered and Silicified Breccia.						
		- primarily fine grained felsic fragments 1 - 4 cm, average < 1cm	20299	38.3-40.6	(2.3m)		0.069	3.09
		- section is quite hard by 39.5, rusty; pyrite 1%.						
40.6-44.5m (0m)		Gray to Buff, silicified(+Stockwork) Zone in Breccia (Visible Gold.)						
		- massive quartz from 40.6-41.4m; rest of section						

# KERR-DAWSON & ASSOCIATES LTD. - DIAMOND DRILL RECORD

Suite 1 - 219 Victoria St.  
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Phone 374-0544

PROPERTY BLACK DOME HOLE No. DDH-3 SHEET No. 5 of 5

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
40.6-50.3m		is massive sections of quartz mixed with quartz stockwork.						
		- breccia texture still visible often outlined by quartz around fragments. (noted some ignimbritic fragments).					1.234	13.71
		- drusy cavities quite common, quartz veinlets hairline to 1.5 cm thick (60/3.9 meters)	20300	40.6-42.6	(2.0m)	→	Taken Afr. 1/4 sample	
		- noted few gray patches presumably of silver minerals.					Check Assay. #20338.	
							40.6-44.5 (3.9m)	
			20301	42.6-44.5	(1.9m)		0.206	3.77
		VISIBLE GOLD AT:						
		- 40.9m; 41.3m (2mm across); 41.8 (1-2mm across)						
44.5-50.3 (0m)		Pale Green-Gray, Moderately to Highly Altered, weak Stockwork in Breccia and Tuff (?)						
		- 44.5-45.2m, well developed breccia, fragments show "ignimbritic look" some appear deformed and aligned to $\approx 30^\circ$ to C. A.	20302	44.5-46.5	(2.0m)		0.137	2.74
		- rest of section is hard and soft zone in breccia and tuff soft (clayey zones) show lineation 35-40° to C. A.	20303	46.5-50.3	(3.8m)		0.069	0.69
		- quartz veinlets (some with drusy cavities) still present (3-4/meter)						
		- veinlets appear to be nearly 90° to lineations, bedding, etc.						
		END OF HOLE.						



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Suite 1 - 219 Victoria St.  
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PROPERTY.....BLACK DOME.....

HOLE No. ....DDH-4.....

DIP AND AZIMUTH TEST		
Corrected		
Footage	Angle	Azimuth

Core Size .....BQ.....  
 Angle of Hole .....-45°.....  
 Claim.....Dome #2.....  
 Section.....  
 Bearing .....105°.....

Total Depth .....62.8m.....  
 % Recovery .....97.9%.....  
 Elev. Collar .....1996.9.....  
 Latitude .....14+33S.....  
 Departure .....4+19W.....

Sheet No .....1..... of .....6.....  
 Logged by .....W. Gruenwald.....  
 Date Begun .....July 18/79.....  
 Date Finished .....July 21/79.....  
 Core Stored At .....BAF WHSE.....

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE		Au(g/t)	Ag(g/t)
0-3.3		Casing					
3.3-6.5m	(0.4m)	Yellowish-White to Pinkish Green, Brecciated and Veined Andesite.					
		- 3-5.2m - distinct yellow color, brecciated doesn't appear to be a sedimentary breccia, rather it appears to have been shattered in place.					
		- 5.2-6.5m - more massive, less altered, pale green and pinkish sections.	20304	3-5.2 (2.2m)		0.171	0.70
		- also more pyritic, fine grained cubes 1-2%					
		- rusty fractures common throughout.					
		- 17 quartz veinlets /3.2m - most are in the first 15 m (1-2mm thick)-many @ 50° to C.A.					
6.5-9.2m	(0.0m)	Green, weakly to Moderately Brecciated Andesite.					
		- finely brecciated (only one rock type)					
		- pyrite content variable (average 1%)- locally 2-3% - as small cubes ≤ 1mm.	20305	7.3-7.6 (0.3m)		< 0.070	< 0.70
		- noticed epidote in few places suggesting propylitic alteration?					
		- last 20 cm, pale pinkish, bleached andesite.					

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1 - Victoria  
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PROPERTY BLACK DOME

HOLE No. DDH-4

SHEET No. 2 of 6

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE		Au(g/t)	Ag(g/t)
		- 5-6 hairline quartz veinlets/meter.					
9.2-10.3	(0.1m)	Yellowish, Altered, Fractured and Veined Zone in Andesite.					
		- more highly fractured and rusty than usual.					
		- appears gradational @ top and bottom					
		- 9.9-10m, heavily silicified & brecciated along with 3-5% fine grained pyrite.	20306	9.2-10.3 (1.1m)		0.171	2.06
		- 10-10.3m strong stockwork of randomly oriented quartz veinlets.					
		- distinct yellow coloration fades out @ 10.3m.					
10.3-12.8	(0.0m)	Green (and Purplish), Massive to Brecciated Andesite.					
		- similar to above section except greenish breccia fragments are set in a purplish matrix.					
		- last 20 cm and several small sections are of massive and unbrecciated andesite.					
		- pyrite pervasive (1-2%); 2-3% in massive andesite.					
		- 10 quartz veinlets /2.5m; 45-50° to C.A.					
12.8-13.3	(0.0m)	Yellowish, Altered and Veined Andesite.					
		- 14 veinlets /0.5m from 1mm - 0.5 cm, some with drusy cavities.	20307	12.8-13.3 (0.5m)		0.171	2.74
		- some veinlets cut others (2 stages of veining?)					
		- pyrite less abundant.					

# KERR-DAWSON & ASSOCIATES LTD. - DIAMOND DRILL RECORD

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PROPERTY BLACK DOME HOLE No. DDH-4 SHEET No. 3 of 6

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE		Au(g/t)	Ag(g/t)
13.3-16.2	2(0.4m)	Light Gray-Brown (+ Rusty), Well Brecciated and Veined Andesite.					
		- at least 30 quartz veinlets /2.9m, larger ones often drusy & @ 60-70° to C.A.	20308	13.3-16.2 (2.9m)		0.343	6.86
		- strongest veining from 14-14.3m.					
		- last 0.5m well ground up due to fractured and rusty nature of rock (most core lost here!)					
16.2-19.1	1 (0.4m)	Massive, White to Buff Silicified Zone in Breccia (Visible Silver and Gold Mineralization)					
		- massive silicified breccia with occassional vuggy cavities, silica around breccia fragments and some veinlets cutting fragments.	20309	16.2-18.2 (2.0m)		61.71	207.77
			20310	18.2-19.1 (0.9m)		15.19	64.11
		- gray patches in quartz probably consists of silver sulphide and/or silver sulphosalts					
		- pyrite found disseminated throughout - very fine grained (1-2%); very minor chalcopryrite.					
		- last 10 cm, into intense stockwork.					
19.1-20.15	15 (0.0m)	Buff to Rusty, Stockwork Zone.					
		- rusty fractures common					
		- quartz veinlets very abundant > 50/1.05m.	20311	19.1-20.15 (1.05m)		33.60	127.20
		- hairline to 1 cm thick, largest have drusy centers					
		- many @ 50-60° to C.A.					
		- bottom contact with lower siliceous zone @ 55 to 60° to C.A. - contact very well defined.					

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1 of 2

# KERR-DAWSON & ASSOCIATES LTD. - DIAMOND DRILL RECORD

1101 - 210 Victoria St.  
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Phone 374-0544

PROPERTY BLACK DOME

HOLE No. DDH-4

SHEET No. 4 of 6

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE		Au(g/t)	Ag(g/t)
20.15-20.95	(0.0m)	Massive, Silicified Zone (In Breccia)					
		- few drusy cavities, locally, pyritic (up to 5%)					
		- few gray patches - suspect fine grained Ag and Au mineralization.	20312	20.15-20.95 (0.8m)		0.754	7.54
		- some breccia fragments appear ignimbritic					
		- lower contact @ ~ 65° to C.A.					
20.95-22.7	(0.0m)	Variably Colored, Rhyolitic Breccia.					
		- very brecciated in places, subangular fragments					
		- ignimbrite and/or ash fragments common	20313	20.95-22.7(1.75m)		3.84	12.34
		- silicified and rusty bands @ 21.8-21.9; 22.2-22.5m are at 65° to C.A.					
		- quartz veinlets quite common 25/1.75m - most @ 60° to 70° to C.A.					
22.7-25	(0.0m)	Dark Green, Massive, Brecciated Andesite.					
		22.7-23.2 - dark green, massive (Mod. brecciated)					
		- 23.2-24.3 - mixed breccia and chloritic andesite.					
		- 24.3-25 - gray rhyolitic breccia, pyrite ~ 1%.					
		- approx. 1-2 veinlets/m for total section.	20314	22.7-25 (2.3)		0.171	1.71
25-56	(0.0m)	Light Olive Green, Mafic (Hornblende) Porphyritic Dike.					
		- 25-25.6 - dark grey, massive, finely porphyritic	20315	25-25.6 (0.6m)		0.070	1.03
		chill border (andesitic).	20316	28-28.4 (0.4m)		1.029	29.14

# KERR-DAWSON & ASSOCIATES LTD. DIAMOND DRILL RECORD

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PROPERTY BLACK DOME

HOLE No. DDH-4

SHEET No. 5 of 6

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
25-56		- dyke consists of mafic phenocrysts (hornblende) (1-3mm long) set in a peppery textured ground-mass of quartz, feldspar and fine grained mafics.	20317	34-34.8	(0.8m)		0.686	3.43
		- chlorite present as alteration along with fine grained epidote.						
		- quartz grains (< 1mm) form $\geq$ 5% rock (probably more in groundmass)						
		- pyrite approx. 1/2% - uniformly dispersed.						
		- quartz veinlets scarce or absent except @ 34 to 34.8m where 16 quartz veinlets were counted and some with drusy cavities.						
		- most veinlets @ 60° to C.A.						
		Locally the dyke is feldspar porphyritic						
		i.e. 39-40.6m						
		41.6-42.8m						
		47.6-48.1m						
		50.8-54.6m						
		54.6-56m						
		Dyke slightly brecciated @ 56m - may be lower contact.						
56-62.8	(0.0m)	Green (+ Locally Purplish) Weakly Brecciated Andesite (+Andesite Tuff?)						
		- lighter green, weakly bleached looking.						
		- variably brecciated.						





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Suite 1 - 219 Victoria St.  
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Phone 374-0544

PROPERTY..... BLACK DOME.....

HOLE No. .... DDH-5.....

DIP AND AZIMUTH TEST		
Corrected		
Footage	Angle	Azimuth

Core Size ..... BQ.....  
 Angle of Hole ..... 90°.....  
 Claim..... Dome #2.....  
 Section.....  
 Bearing .....

Total Depth ..... 38.0m.....  
 % Recovery ..... 78.0%.....  
 Elev. Collar ..... 1995.7.....  
 Latitude ..... 14+33S.....  
 Departure ..... 4+19W.....

Sheet No ..... 1..... of ..... 5.....  
 Logged by ..... W. Gruenwald.....  
 Date Begun ..... July 22/79.....  
 Date Finished ..... July 25/79.....  
 Core Stored At BAF WHSE.....

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE		Au(g/t)	Ag(g/t)
0-1.8m		Casing					
1.8-3.7	(1.4m)	Pale Gray-White, Highly Fractured and Veined Andesite. - very ground up, very rusty on fractures - few quartz veinlets ( $\approx$ 1/meter)					
3.7-8.2	(1.7m)	Pale Green-Gray, Altered Andesite. - ground and fractured, rusty andesite. - much of section is weakly brecciated; well brecciated from 4.8-4.9m. - many fractures 0-15° to C.A. - 7.9-8.2m - appears to be going down silicified, fracture (drusy cavities).	20318	7.3-8.2 (0.9m)		0.137	0.70
8.2-10.8m	(0.4m)	Green (Locally Pinkish), Rusty Fractured, Weakly Altered Andesite. - much of section is porphyritic (pale green altered feldspars) - rusty fractures common, many parallel to subparallel to C.A.	20319	8.2-8.5 (0.3m)		0.137	2.40

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PROPERTY BLACK DOME HOLE No. DDH-5 SHEET No. 2 of 5

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE		Au(g/t)	Ag(g/t)
8.2-10.8m		- 8.2-8.4m - silicified and rusty (1-1.5cm thick) @ 10° to C.A.: 1-2 quartz veinlets/m. - fine grained pyrite pervasive 1-2%; locally 3-4%.					
10.8-13.2 (0.2m)		Highly Brecciated, Rusty Fractured and Weakly Silicified, Andesite. - well developed breccia texture (one rock type) - white, bleached, subangular fragments occasionally show porphyritic texture. - fragments surrounded by a reddish-brown matrix containing irregular blebs of jasper and chlorite. - 3-4 quartz veinlets/m - generally < 2 mm.	20320	10.8-13.2 (2.4m)		0.070	0.70
13.2-19.8 (0.2m)		Green to Mottled Green + White, Weakly Altered Andesite. - much of section is green massive, mafic porphyritic andesite (chloritic alteration). - brecciated from 15.2-15.4 (similar to above section) -"streaky" texture of fabric ~ 45° to C.A. - many highly fractured and rusty areas many of which are at low angles to C.A. - irregular quartz grains locally form 5-6% of rock. - pyrite ubiquitous average 1-2%, locally up to 5%. - quartz veinlets 19/6.2m or 1/3 meter. - last 20 cm, fractured, brecciated, rusty containing few cavities; fractures near 10° to C.A.	20321 20322	16.1-17.2 (1.1m) 18.3-19.8 (1.5m)		0.070 0.070	0.70 0.70



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PROPERTY BLACK DOME

HOLE No. DDH-5

SHEET No. 4 of 5

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE		Au(g/t)	Ag(g/t)
29.3-31.2	(0.3m)	Gray-Red-Brown & White "Striped" Silicified Rhyolite (?)					
		- massive and hard (silicified) possible stockwork zone.					
		- 29.3-30m - fractures (rusty) 0-5° to C.A.	20324	29.3-31.2	(1.9m)	0.137	3.09
		- quartz veinlets common; 16/meter, few drusy					
		cavities hairline to 1 cm thick - most @ 15° to					
		C.A.					
		- some gray patches suggestive of silver					
		mineralization.					
		- very fine grained pyrite, $\leq$ 1%.					
		- distinct yellow coloration noted around some					
		quartz veinlets; similar to yellow sections in					
		DDH-4.					
31.2-32.5	(0.0m)	Massive, Silicified Breccia with Visible Gold.					
		- 31.2-31.6- rusty silicified zone with limonitic					
		cavities, rest of section massive siliceous					
		breccia.	20325	31.2-32.5	(1.3m)	15.43	102.17
		- top contact with above section is 30° to C.A.					
		- bottom contact (gradational) is also 30° to C.A.					
		- gray patches (silver mineralization) quite					
		common.					
		- visible gold (< 1mm grains) @ 31.65 - 31.7m.					



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Suite 1 - 219 Victoria St.  
Kamloops, B.C.  
Phone 374-0544

PROPERTY.....BLACK DOME.....

HOLE No. ....DDH-6.....

DIP AND AZIMUTH TEST		
Corrected		
Footage	Angle	Azimuth

Core Size .....BQ.....  
 Angle of Hole .....-60°.....  
 Claim.....Dome #2.....  
 Section.....  
 Bearing .....105°.....

Total Depth .....30.2m.....  
 % Recovery .....92.7%.....  
 Elev. Collar .....1996.6.....  
 Latitude .....14+33S.....  
 Departure .....4+19W.....

Sheet No .....1..... of .....5.....  
 Logged by .....W. Gruenwald.....  
 Date Begun .....July 25/79.....  
 Date Finished .....July 26/79.....  
 Core Stored At .....BAF WHSE.....

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE		Au(g/t)	Ag(g/t)
0-3m		Casing in Overburden.					
3-6m	(0.3m)	Pale Yellow (locally Pale-Brown), Bleached Breccia. - most of section is brecciated and distinctly yellowish especially in the fragments. - matrix is gray-probably quartz. - 3.8-4.3m - pale gray-brown, less altered prophyritic andesite the contact of which is 30° to the core axis (C.A.) - pyrite generally minimal, < 1% (except in andesitic sections where pyrite makes up 1-2%). - rusty fractures are common and vary from 0° to 50° to C.A. - quartz veinlets not abundant 1-2/meter.	20327	4.5-6m (1.5m)		<0.070	0.70
6-11.2	(0.1m)	Pale Green-Brown to Deep Green Andesite. - much of section is massive andesite that shows a definite streaking of the fabric @ 30-40° to C.A. - 7.5-7.8m - yellowish discoloration (or staining?) of fragments, noted in this small brecciated zone - rusty fractures common; 0° to C.A. from 5.9-6.5m					

# KEER-DAWSON & ASSOCIATES LTD. - DIAMOND DRILL RECORD

S. 210 Victoria  
Kamloops, B.C.  
Phone 374-0544

PROPERTY BLACK DOME HOLE No. DDH-6 SHEET No. 2 of 5

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE		Au(g/t)	Ag(g/t)
		others @ 30-45° to C.A.					
		- pyrite ubiquitous - av. 1%, locally 2-3%:					
		- quartz veinlets rare - 1/meter.					
		- 10.0-10.9 - dark grey with numerous rusty fractures					
		from 5-15° to C.A.	20328	7.5-7.8 (0.3m)		0.103	0.70
		- 10.9 - 11.2 - faded out to a pale green-gray					
		andesite.					
11.2-12.5 (0.0m)		Pale Yellow Brown, Bleached and Brecciated Andesite (?)					
		- fragments well altered, seldom > 1cm.					
		- abundant rusty fractures	20329	11.2-12.5 (1.3m)		0.070	0.70
		- few quartz veinlets ~ 1/m.					
12.5-13.6 (0.4m)		Medium Green, Well Fractured Andesite.					
		- numerous rusty fractures, many @ 5°-20° to C.A.					
		- minor pyrite (~ 1%)					
		- no quartz veinlets noted.					
13.6-18.6 (1.2m)		Pale Green to Pale Gray Brown Moderately					
		Silicified and Bleached Andesite.					
		- 13.6-14m - core ground up - only small chips of					
		pale andesitic rock left.	20330	13.6-16.4 (2.8)		0.274	4.80
		- rusty fractures common, many @ 45° to C.A.	20331	16.4-18.6 (2.2m)		0.103	3.42
		* Possible Fault @ 15.5-15.8m - ground up material					
		and sand.					



# KERR-DAWSON & ASSOCIATES LTD. - DIAMOND DRILL RECORD

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 Phone 374-0544

PROPERTY BLACK DOME

HOLE No. DDH-6

SHEET No. 3 of 5

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
		- quartz veinlets quite common 3-4/meter often @ 30° to C.A.						
		- massive quartz @ 15.0-15.2m - also @ 20-30° to C.A.						
18.6-19.7 (0.1m)		Pale Gray-Buff Massive, Silicified Zone. (Au,Ag)						
		- contains both silicified breccia and intense stockwork						
		- pale fragments are rhyolitic (?) - some show ignimbritic laminae.	20332	18.6-19.7 (1.1m)			18.51	210.86
		- few drusy cavities noted.						
		- gray patches in quartz are silver minerals which probably also carry gold values.						
		- visible gold @ 18.7-19.0m, very fine grained						
		- fine grained pyrite found sporatically throughout section, locally 1-2%.						
19.7-22.5 (0.0m)		Mixed Stockwork Zone with Small Massive Siliceous Zones, Visible Gold.						
		- pale gray, bleached and variably silicified.						
		- striped and/or spotted appearance noted especially from 19.7-20.4m.						
		- massive siliceous "lenses" from 20.3-20.5m; 20.8-20.9m, 21.1-21.2m.						
		- quartz veinlets very abundant ~ 25/meter, most veinlets and siliceous zone @ 45 to 60° to C.A.	20333	19.7-20.7 (1.0m)			3.39	25.37
			20334	20.7-21.7 (1.0m)			2.57	35.66





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PROPERTY.....BLACK DOME.....

HOLE No. ....DDH-7.....

DIP AND AZIMUTH TEST		
Corrected		
Footage	Angle	Azimuth

Core Size .....BQ.....  
 Angle of Hole .....-45°.....  
 Claim.....Dome #2.....  
 Section.....  
 Bearing .....105°.....

Total Depth .....35.3m.....  
 % Recovery .....94.8%.....  
 Elev. Collar .....1994.6.....  
 Latitude .....12+22S.....  
 Departure .....1 + 44W.....

Sheet No .....1..... of .....3.....  
 Logged by .....W. Gruenwald.....  
 Date Begun .....July 31/79.....  
 Date Finished .....Aug. 2/79.....  
 Core Stored At .....BAF WHSE.....

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE		Au(g/t)	Ag(g/t)
0-6.1m		Casing					
		- 0.4.2m no coring.					
		- 4.2-6.1m recovered (initially) a few pebbles of dark green, porphyritic andesite.					
		- cored material is a gray mottled, fine grained feldspar porphyritic (?) rhyolite.	20339	4.2-6.2m	(2.0m) Geochem	0.01	0.2
		- locally brecciated.					
		- quartz veinlets 6/1.9 meter, some with drusy cavities, attitude 35-50° to C.A. (core axis)					
6.1-11.6	0.4m	Gray, Fine Grained, Moderately Altered Rhyolite.					
		- locally quite brecciated.	20340	6.2-9.2	(3.0m) Geochem	0.01	0.2
		- pale gray-white - bleached appearance	20341	9.2-10.6	(1.4m) Geochem	0.03	0.3
		- rusty fractures quite common.	20342	10.6-11.6	(1.0m) Geochem	0.03	0.7
		- quartz veinlets 3 to 4/meter, 45-60° to C.A.					
		- thickness from hairline to 3 mm.					
11.6-16.9	(0.5m)*	Pale Gray to Whitish, Silicified, Hard Breccia with Visible Gold.					
		- much harder than above section, silicified + quartz veinlets.					

# KLRR—DAWSON & ASSOCIATES LTD. - DIAMOND DRILL RECORD

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Phone 374-0544

PROPERTY BLACK DOME

HOLE No. DDH-7

SHEET No. 2 of 3

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE		Au(g/t)	Ag(g/t)
11.6-16.9		- core quite broken in many places.					
		- 11.6-13.2m - highly, silicified (VISIBLE GOLD!)					
		- 12.2-16.9m - moderately to highly silicified					
		polymictic breccia consisting of bleached					
		looking fragments 9.2-3 cm (average < 1 cm)					
		- feldspar porphyry and rhyolitic fragments common	20343	11.6-12.6 (1.0m)		4.46	23.66
		usually subangular to subrounded.	20344	12.6-13.2 (0.6m)		146.40	1059.44
		- quartz veinlets 15-20/meter; hairline to	20345	13.2-14 (0.8m)		1.92	27.43
		≥ 1 cm thick) often @ 40° to 60° to C. A.	20346	14-15 (1.0m)		0.171	5.83
		- pyrite rare << 1%.	20347	15-16 (1.0m)		0.171	3.43
			20348	16-16.9 (0.9m)		0.070	6.17
16.9-19.2 (0.3m)		Pale Green, Fine Grained Polymictic Volcaniclastic					
		(Sediment)					
		- quite altered, feldspars and feldspathic fragments					
		altered to clay minerals, chloritic alteration					
		common.					
		- finer grained sandy lenses one of which exhibited	20349	16.9-17.9 (1.0m)	Geochem	0.02	1.0
		graded bedding and an attitude of 30° to C.A.	20350	17.9-19.2 (1.3m)	Geochem	0.05	0.5
		- few fragments are > 0.5 cm; generally					
		subrounded					
		- 18.3-18.6 - mud seam, 1/2 core lost, possibly					
		fault zone.					
		- quartz veinlets rare : 1/meter, pyrite << 1%:					

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PROPERTY BLACK DOME HOLE No. DDH-7 SHEET No. 3 of 3

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
19.2-20.6	(0.2m)	Green-Brown, Fine Grained "Amorphous" Volcanic (Dike?) - few irregular, quartz grains in an amorphous altered groundmass - quartz veinlets vary rare << 1/meter						
20.6-22.4	(0.1m)	Dark Green Brown, Soft Altered Breccia - all fragments appear to be one rock type - fragments 0.5-4 cm, ill defined borders - 20.6-20.8m - Fault Zone - noted slickensides that are 30° to C.A. and movement has been horizontal! - no quartz veinlets noted.						
22.4-35.3	(0.3m)	Medium Green, Fine Grained Andesitic Tuff with Local Breccia. - unit is generally soft due to chloritic and/or propylitic alteration. - local blebs and patches of epidote - chlorite, quartz. - some sections are massive, fine grained andesitic tuffs. - coarsely brecciated in places "monolithologic" - very few rusty fractures now, pyrite rare. - noted reddish brown jasper as small infillings. - "mud seams" - possible faults @ 23.2m; 28.4m; 30.2-30.3m.						
		END OF HOLE.						

# KERR—DAWSON & ASSOCIATES LTD. - DIAMOND DRILL RECORD

Suite 1 - 219 Victoria St.  
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PROPERTY.....BLACK DOME.....

HOLE No. ....DDH-8.....

DIP AND AZIMUTH TEST		
Corrected		
Footage	Angle	Azimuth

Core Size .....BQ.....  
 Angle of Hole .....-45°.....  
 Claim.....  
 Section.....  
 Bearing .....105°.....

Total Depth .....46.0m.....  
 % Recovery .....91.7%.....  
 Elev. Collar .....1995.7.....  
 Latitude .....6 + 40S.....  
 Departure .....2 + 27E.....

Sheet No .....1..... of .....3.....  
 Logged by.....W. Gruenwald.....  
 Date Begun.....July 31/79.....  
 Date Finished.....Aug. 22/79.....  
 Core Stored At.....BAF WHSE.....

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE		Au(g/t)	Ag(g/t)
0-5m		Casing					
5.7-11.1	(0.4m)	Pale Green to Green-Brown Feldspar Porphyritic Andesite.					
		- epidote noted in many areas (propylitic alteration?)					
		- pyrite ~ 1%, fine grained cubes	20375	6.1-11.1 (5.0m)	Geochem	0.03	1.0
		- quartz veinlets quite common ~ 4/meter, often @ 45-70° to C.A. (core axis)					
11.1-12.3	(0.0m)	Pale Brown, Bleached Andesite.					
		- rusty fractures common, pyrite, fine grained ~ 1%					
		- quartz veinlets ~ 2/m.	20376	11.1-12.3(1.2m)	Geochem	0.08	1.0
12.3-24.5	(0.5m)	Pale Green-Brown, Fine Grained Feldspar Porphyritic Andesite					
		- 23-24.5 - more fractured and paler andesite.					
		- few pyritic sections 2-3%, cubes 1-3mm.	20377	20-25m (5m)	Geochem	0.10	0.2
		- quartz veinlets throughout section are not common 1-2/meter often @ 40-60° to C.A.					

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# KERR-DAWSON & ASSOCIATES LTD. - DIAMOND DRILL RECORD

Suite 1 - 219 Victoria St.  
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PROPERTY BLACK DOME

HOLE No. DDH-8

SHEET No. 2 of 3

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
24.5-29.3	3m(0.9m)	Pale Green-Brown, Weakly Silicified and Altered Andesite.						
		- 27-29.3 - well fractured.	20378	25-28.7 (3.7m)	Geochem		0.36	0.6
		- 28.7-29m - fault gouge	20379	28.7-29.3 (0.6m)	Geochem		0.39	0.9
		- quartz veinlets - 1-2/m.						
29.3-32.8	8(1.1m)	Pale Gray-Buff, Silicified Zone in Breccia						
		- 29.3-31 - core ground up extensively - fragments of quartz, silicified breccia and fault gouge (?)	20380	29.3-30 (0.7m)	Fire Assay		0.137	7.20
		recovered	20381	30-32 (2.0m)	Fire Assay		26.40	230.74
			20382	32-32.8 (0.8m)	Fire Assay		0.343	6.51
		- 32-32.8 - massive silicified breccia - drusy cavities noted occasionally.						
32.8-35.5	5(0.1m)	Green, Massive, Fine Grained, Feldspar Porphyritic Andesitic Dyke - Locally Brecciated.						
		32.8-33.4 - massive volcanic, fabric alignment 30° to C.A.						
		- 33.4-35.5 - variable, massive-brecciated, cherty zones (may be assimilated vein material?)	20383	32.8-35.5 (2.8m)	Fire Assay		0.686	4.46
		- pyrite ~ 1%, locally 1-2%.						
		- quartz veinlets 3-4/meter.						
35.5-38.5	5(0.1m)	Pale Gray-Buff, Variably Silicified Breccia						
		- 35.5-36.7 - well veined, rusty fractured, pale brown andesite (?)	20384	35.5-36.7 (1.2m)	Fire Assay		0.309	2.74
		- 36.7-37.2 - definite yellow coloration of fragments, auto brecciated, healed by quartz.	20385	36.7-37.5 (0.8m)	Fire Assay		3.086	15.43
			20386	37.5-38 (0.5m)	Fire Assay		1.200	15.09
			20387	38-38.5 (0.5m)	Fire Assay		0.617	3.43





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PROPERTY.....BLACK DOME.....

HOLE No. ....DDH-9.....

DIP AND AZIMUTH TEST		
Corrected		
Footage	Angle	Azimuth

Core Size .....BQ.....  
 Angle of Hole .....-60°.....  
 Claim.....Dome #2.....  
 Section.....  
 Bearing .....105°.....

Total Depth .....29.3m.....  
 % Recovery .....93.8%.....  
 Elev. Collar .....1994.3.....  
 Latitude .....12+22S.....  
 Departure .....1+ 44W.....

Sheet No .....1..... of .....4.....  
 Logged by .....W. Gruenwald.....  
 Date Begun .....August 2/79.....  
 Date Finished .....August 5/79.....  
 Core Stored At .....BAF WHSE.....

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE		Au(g/t)	Ag(g/t)
0-3.6m		Casing					
3.6-5.3	(0.4m)	Gray-White Mottled, Brecciated Rhyolite. -appears auto brecciated -many rusty fractures, often @ 30° to C.A. -pyrite < 1%, very fine grained -quartz veinlets ~ 10/meter; most @ 50° to C.A. (core axis).	20351	4.0-5.3 (1.3m)	Geochem	0.03	1.0
5.3-9.6m	(0.2m)	Pale Gray-Buff, Bleached and Rusty Rhyolite -vague brecciated texture, alteration has produced abundant clay minerals; therefore rock is often soft -pyrite weathered out - spotted and blotchy appearance -lower 0.3m quite hard (silicified) and contact appears to be 40° to C.A. -quartz veinlets not abundant, hairline 2-3/meter.	20352	5.3-9.6 (4.3)	Geochem	0.03	0.3
9.6-11.0m	(0.0m)	Light Brown, Hard, Fine Grained, Bedded Volcanic Sediment. -generally fine grained; 1-2mm fragments, seldom 0.5 cm.					



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PROPERTY BLACK DOME

HOLE No. DDH-9

SHEET No. 3 of 4

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
15.4-16.4	(0.1m)	Grayish-Green, Bedded Volcanic Sediment						
		- 15.4-15.8 - bedding noted (some graded) @ 65° to C.A.						
		- 15.8-16.4 - well fractured, coarse grained breccia	20360	15.4-16.4 (1.0m)	Geochem		0.09	2.0
		- may be along edge (faulted + brecciated) of green, fine grained dacitic dyke (?)						
		- quartz veinlets 14/meter.						
16.4-23.4	(0.3m)	Pale Green-Brown Dacitic Dyke (?)						
		- 16.4-18.7 - dyke material near contact zone, occasionally see pieces of wall rock + brecciated dyke.	20361	16.4-19.0 (2.6m)	Geochem		0.08	1.2
		- 18.6-18.7 - pale rusty fractured, weakly silicified rhyolite that may be an embayment into volcanic rock						
		- dyke is often feldspar porphyritic (phenocrysts altered)						
		- quartz veinlets rare ~ 1/meter.						
23.4-29.3	(0.1m)	Pale Green-Green Brown, Fine Grained, Weakly Altered Andesitic Volcanic (Tuffaceous?)						
		- 23.4-25.8 - pale green, vaguely brecciated andesite with red-brown matrix (filling) locally common.						
		- vague bedding 25-25.2 45° to C.A.						
		- top and bottom of the above subsection is a coarse mosaic breccia (auto brecciated andesite).						



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PROPERTY BLACK DOME

HOLE No. DHH-10

SHEET No. 2 of 3

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
12.2-14.2		(generally < 1cm) in pale brown fine grained matrix	20366	12.2-13.2 (1.0m)	Fire Assay		0.171	1.37
		- rusty fractures still common	20367	13.2-14.2 (1.0m)	Fire Assay		0.171	1.71
		- few quartz veinlets 2-3/meter @ 60° to C.A.						
14.2-18.6 (0.6m)		Pale Gray-Buff, Silicified, Rhyolitic Breccia						
		- 14.2-15.0 - lost 0.3m - rusty highly fractured						
		- 15.0-15.4 - massive siliceous rhyolitic breccia						
		- 15.4-16.5 - brown semi siliceous breccia and sediment - quartz veinlets common	20368	14.2-15 (0.8m)	Fire Assay		0.171	1.71
		- 16.5-18.6 - varies from massive silica to semi silicified breccia material, generally a pale brown breccia.	20369	15-15.4 (0.4m)	Fire Assay		0.137	2.74
		- quartz veinlets generally common throughout section	20370	15.4-16.5 (1.1m)	Fire Assay		0.343	4.46
			20371	16.5-17.2 (0.7m)	Fire Assay		0.309	3.43
			20372	17.2-18.0 (0.8m)	Fire Assay		0.343	5.83
			20373	18.0-18.6 (0.6m)	Fire Assay		0.377	27.43
		- lower contact with pale grey, massive andesite (?) is 55° to C.A.						
18.6-23.6 (0.2m)		Pale Green to Green Brown, Massive, Finely Porphyritic Andesite (& Dacite)						
		- 18.6-18.9m - pale green andesite, 5 quartz-veinlets 65° to C. A.						
		- 18.9-20 - massive, fine grained, feldspar porphyritic (pale brown, and altered) dacite						
		- 16 quartz veinlets /1.1m, many @ 60° to C.A.						
		- 20-23.6 - primarily fine grained dense, feldspar porphyritic dacitic dyke? quite fractured						



# KERR—DAWSON & ASSOCIATES LTD. - DIAMOND DRILL RECORD

Suite 1 - 219 Victoria St.  
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PROPERTY.....BLACK DOME.....

HOLE No. DDH-11.....

DIP AND AZIMUTH TEST		
Corrected		
Footage	Angle	Azimuth

Core Size .....BQ.....  
 Angle of Hole .....-45°.....  
 Claim.....Dome #2.....  
 Section.....  
 Bearing .....105°.....

Total Depth .....73.2m.....  
 % Recovery .....95%.....  
 Elev. Collar .....1997.4.....  
 Latitude .....11+38S.....  
 Departure .....1+44W.....

Sheet No 1..... of 6.....  
 Logged by W. Gruenwald.....  
 Date Begun Aug. 8/79.....  
 Date Finished Aug. 17/79.....  
 Core Stored At BAF WHSE.....

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
0-6.1m		Casing						
6.1-40.6m	(1.6m)	Pale Gray-Buff, Striped Rhyolitic Ash.						
		- striped appearance of fabric common, 50-60° to C. A.						
		- gray bands are quartz						
		- laminae are often wavy and warped around feldspar and quartz grains	20390	6.1-10 (3.9m)	Geochem		0.09	0.9
		- brown staining due to limonite alteration	20391	10-15 (5.0m)	Geochem		0.02	0.3
		- quartz veinlets not common, generally 1-2/meter and most @ 50-55° to C. A.	20392	15-20 (5.0)	Geochem		0.38	2.4
		- 17.6-17.8m - brecciated, quartz healed fracture approx. 1 cm. thick @ 15° to C. A. others from 5-10° to C. A. @ 18.4-18.9 and 21.3-21.4m.	20393	20-25 (5.0)	Geochem		0.10	0.7
		- 20.3-27.6m - feldspar porphyritic rhyolite, with few intercalated bands of striped rhyolite.	20394	25-27.6 (2.6m)	Geochem		0.03	0.2
		- lower contact of feldspar porphyritic material is 70° to C.A.	20395	27.6-30 (2.4m)	Geochem		0.34	0.2
		- 27.6-40.6 - into striped and mottled rhyolitic material commonly with rounded drusy cavities up to 1.5 cm. across.	20396	30-35 (5.0m)	Geochem		1.86	0.2
			20397	35-40 (5.0m)	Geochem		0.07	0.2

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**1 of 2**



# KERR-DAWSON & ASSOCIATES LTD. - DIAMOND DRILL RECORD

Page 1 of 1  
 Kamloops, B.C.  
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PROPERTY BLACK DOME HOLE No. DDH-11 SHEET No. 2 of 6

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
40.6-45.5	(0.4m)	Red Brown-White, Mottled Rhyolitic Ash.						
		- 40.6-42.3m - pale green, soft altered zone showing very finely shattered appearance with quartz healed fractures.						
		- 42.8-43.4 - rounded, nodular texture to rock suggestive of concretionary growth - possibly subaqueous						
		- section is quite variable	20398	40-45m	(5.0m)	Geochem	0.23	0.2
		- quartz veinlets more common; 2-3/meter						
45.5-51.9	(0.1m)	Mottled, Red Brown-White, Vuggy Rhyolitic Ash						
		- very distinctive "pock marked" and mottled appearance						
		- quartz veinlets, 1-2/meter, -30-45° to C.A.	20399	45-48.6	(3.6m)	Geochem	0.07	0.2
		- locally still rusty fractured, pyrite < 1%.	20400	48.6-51.9	(3.3.m)	Geochem	0.68	0.2
51.9-55	(0.8m)	Pale Gray, Rusty, Altered and Locally Silicified Zone						
		- 51.9-52.2 - rusty bleached, semi silicified, brecciated rhyolite						
		- 52.2-52.4 - possible fault gouge in gray altered and semi-silicified rhyolite - gouge?						
		@ 20° to C. A.	20401	51.9-52.2	(0.3m)	Fire Assay	<0.07	1.37
		- 52.4-53.8 - pale gray, altered, locally bleached and brecciated rhyolite.	20402	52.2-53.2	(1.0m)	Fire Assay	0.07	1.03
			20403	53.2-54.4	(1.2m)	Fire Assay	<0.07	9.60
		- 53.8-54.5 - mud seam, 0.05m recovered, gouge @ 54.45 m @ 15° to C.A.	20404	54.4-55.0	(0.6m)	Fire Assay	<0.07	2.06

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PROPERTY BLACK DOME

HOLE No. DDH-11

SHEET No. 3 of 6

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
51.9-55		- 545-55 - silicified and veined, pale gray rhyolitic material						
		- overall quartz veinlets in this section						
		average 2-4/meter, many @ 45 to 60° to C.A.						
55-57.3	(0.4m)	Variably Colored, Highly Altered Fault Zone						
		- 55-55.4 - limonitic, very crumbly zone						
		- 55.4-57 - green-red-brown, very altered, soft brecciated rock with abundant slickensides.	20405	55-55.5	(0.5m)	Fire Assay	<0.07	3.09
		- gouge and slickensides often @ 5-15° to C.A.	20406	55.5-56.7	(1.2m)	Fire Assay	0.14	3.77
		with variable movement (ie dip slip and strike slip).	20407	56.7-57.3	(0.6m)	Fire Assay	0.10	2.74
		- 57.0-57.3 - bleached zone, very soft, end of fault zone						
		- no quartz veinlets noted in this section.						
57.3-60	(0.0m)	Dark Green, Fine Grained Dacitic Dyke						
		- often well fractured						
		- 58-58.2 - bleached zone, limonitic						
		- quartz veinlets quite common, hairline to 0.5 cm. approx. 5/meter, 30-70° to C.A.						
		- quite variable						
		- some quartz veinlets contain fragments of surrounding dyke, few veinlets contain drusy cavities.	20408	57.3-60	(2.7m)	Fire Assay	0.07	4.11

# KERR-DAWSON & ASSOCIATES LTD. - DIAMOND DRILL RECORD

11 - 112 Victoria  
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Phone 374-0544

PROPERTY BLACK DOME

HOLE No. DDH - 11

SHEET No. 4 of 6

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
60-62.4	(0.0m)	Dark Green, Fine Grained, Quartz Veined Dacite						
		Dyke with Visible Gold (+Ag)						
		- 60.2-60.4 - bleached and moderately silicified, some jasper						
		- 60.4-62 - dark green dyke material, some local brecciation, approx. 35 quartz veinlets over this 1.6m sub-section, from < 1mm to 0.5 cm, various angles.	20409	60-60.5	(0.5m)	Fire Assay	6.17	6.86
			20410	60.5-61.0	(0.5m)	Fire Assay	14.06	12.34
			20411	61.0-61.6	(0.6m)	Fire Assay	13.37	10.29
			20412	61.6-62.4	(0.8m)	Fire Assay	0.41	15.09
		- 62-62.4 - dark brown contact zone, also quartz veined						
		- pyrite found throughout entire section, fine grained 1-2%						
		- locally > 2%						
		- 4 areas of visible GOLD from 60-61 meters.						
62.4-63.4	(0.0m)	Pale Green Breccia and Fragmented Dyke.						
		- section is quite variable, quartz veinlets quite common.	20413	62.4-63.4	(1.0m)	Fire Assay	0.14	1.37
		- some fragments of amygdaloidal looking volcanic noted.						
		- bottom of section shows well developed breccia texture; fragments generally < 1 cm.						
63.4-65.3	(0.0m)	Brown, Fine Grained, Breccia (Sedimentary)						
		- - upper contact @ 70° to C. A.						
		- fragments generally < 0.5 cm (fine grained volcanics)						

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PROPERTY BLACK DOME HOLE No. DDH-11 SHEET No. 5 of 6

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE		Fire Assay	Au(g/t)	Ag(g/t)
63.4-65.3	(0.0m)	- quartz veinlets common ~18/meter, some contain drusy cavities, often @ 45-55° to C. A.	20414	63.4-65 (1.6m)		Fire Assay	0.14	1.71
			20415	65-65.8 (0.8m)		Fire Assay	0.21	2.06
65.3-67.8	(0.2m)	Pale Brown, Rusty, Fractured, Variably Silicified Breccia Zone.						
		- 65.3-66 - quite fractured, locally well silicified	20416	65.8-66.8 (1.0m)		Fire Assay	7.89	7.14
		- 66-66.3 - moderately silicified sed. breccia.	20417	66.8-67.8 (1.0m)		Fire Assay	0.07	2.40
		- 66.3-67.1 - well silicified zone, some massive quartz, vein material, often fractured.						
		- 67.1-67.55 - auto brecciated, silicified and quartz veined						
		- 67.55-67.8 - massive silicified breccia, locally drusy, lower contact 50° to C. A.						
67.8-68.8	(0.0m)	Pale Green-Gray, Weakly Bleached, Variably Silicified Andesitic (?) Volcanic						
		- 67.8-68.0 - well brecciated, many other areas finely autobrecciated						
		- quartz veinlets common; 20/meter, few 2-4 cm massive siliceous zones, many veinlets @ 60° to C.A.	20418	67.8-68.8 (1.0m)		Fire Assay	0.07	2.74
		- disseminated fine grained pyrite 1-2%, locally >3%						
68.8-73.2	(0.2m)	Dark Green, Massive, Fine Grained Locally Porphyritic Volcanic (Andesitic?)						
		- quartz veinlets still quite common ~7/meter, most @ 45-70° to C.A.	20419	68.8-70 (1.2m)		Fire Assay	0.07	1.71



# KERR—DAWSON & ASSOCIATES LTD. - DIAMOND DRILL RECORD

Suite 1 - 219 Victoria St.  
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PROPERTY.....BLACK DOME.....

HOLE No. ....DDH-12.....

DIP AND AZIMUTH TEST		
Corrected		
Footage	Angle	Azimuth

Core Size .....BQ.....  
 Angle of Hole .....-45°.....  
 Claim.....Dome #2.....  
 Section.....  
 Bearing .....105°.....

Total Depth .....38.4m.....  
 % Recovery .....90.1%.....  
 Elev. Collar .....2005.1.....  
 Latitude .....12+80S.....  
 Departure .....1+95W.....

Sheet No .....1..... of .....5.....  
 Logged by .....W. Gruenwald.....  
 Date Begun .....Aug.17/79.....  
 Date Finished .....Aug.18/79.....  
 Core Stored At .....BAF WHSE.....

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Au(g/t)
0-3.1m		Casing						
3.1-9.8	(0.1m)	Red Brown-White Striped Rhyolite.						
		- definite laminate texture or striping with bands of red-brown, gray (qtz) and white material.						
		- laminae are generally 35-45° to C.A.						
		- laminae are often wavy or contorted especially around vugs and around crystals (ie. 6-7 m)						
		- pitted and spotted (limonite) look due to weathered out pyrite cubes.						
		- from 7 meters onward the rock is quite broken and contains abundant rusty fractures.	20422	3.1-8m (4.9m)	Geochem		0.02	0.2
			20423	8-13m (5.0m)	Geochem		<0.01	0.2
		- 9.5m began noting pale green, soft, amorphous material associated with flesh colored spheroidal masses that are probably of a "subaqueous" nature ie. "thunder egg nodules"						
		- from 7-9.8m - noted approx. 6-7 quartz veinlets with angles varying from 35-70° to C.A.						
9.8-14.6	(0.3m)	Variably Colored Section of Weakly, Autobrecciated, Well Altered Rhyolite.						
		- 9.8 - 10.1 - pale green, streaky, soft, altered						

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PROPERTY BLACK DOME

HOLE No. DDH-12

SHEET No. 2 of 5

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
9.8-14.6		- zone, 40-45° to C.A.						
		- 10.1-11.2 - generally flesh colored, locally pale green, rhyolite.						
		- 11.2-11.9 - pale green, finely autobrecciated rhyolite, striping is 40-45° to C.A.						
		- 11.9-14.6 - highly variable section of pale gray-green striped rhyolite with nodular flesh-buff masses that on broken surfaces were small "thunder egg" nodules, i.e. 11.9-12.0m, 13.1m.	20424	13-14.6	(1.6m)	Geochem	0.03	0.2
		- quartz veinlets not common ~ 1/meter.						
		- few drusy cavities noted appear to be core of some thunder egg masses. i.e. 14.3 m.						
14.6-16m	(1.1m)	Fault Zone (High Core Loss)						
		- recovered first 30 cm, consists of rusty yellow very soft gouge and a few pebbles of gray	20425	14.6-16	(1.4m)	Geochem	0.07	0.2
		- flesh colored rhyolite (some thunder egg material)						
16-19.2m	(1.1m)	Pale Gray-Pale Green, Highly Altered and Crumbly Brecciated Rhyolite.						
		- core loss quite extensive in places, rock is highly altered and soft in many places.	20426	16-18m	(2.0m)	Geochem	0.01	0.2
		- consists of large white - pale green (originally porphyritic rhyolite fragments) in a gray fine grained groundmass.	20427	18-19.2	(1.2m)	Fire Assay	<0.07	2.7
		- last 0.2m noted 3-4 quartz veinlets 50-60° to C.A.						

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PROPERTY BLACK DOME

HOLE No. DDH-12

SHEET No. 3 of 5

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
19.2-21.3	(0.1m)	Pale Brown-Gray, Green Moderately to Highly Silicified Rhyolitic Breccia (Suspect Ag + Au)						
		- 19.2-20.1 - pale brown green, silicified and veined zone most veinlets 60-70° to C.A., some of which cut breccia fragments.	20428	19.2-20.1 (0.9m)	Fire Assay		8.23	102.86
			20429	20.1-20.5 (0.4m)	Fire Assay		22.80	252.34
		- 20.1-21.3 - generally massively silicified breccia with few large drusy cavities (x'als up to 0.5 cm)	20430	20.5-21.3 (0.8m)	Fire Assay		2.91	133.72
		- locally pyrite up to 1%						
		- presence of gray patches is suggestive of silver mineralization.						
21.3-26.2	(0.2m)	Pale Gray-Buff and White, Mottled, Altered Rhyolite.						
		- quite uniform in appearance, non striped						
		- brown blotchy coloration due to weathered out pyrite						
		- pyrite, fine grained < 1%	20431	21.3-22.3 (1.0m)	Fire Assay		0.14	2.06
		- few sections of limonitic gray-white breccia i.e. 25.1 - 26.2	20432	22.3-24 (1.7m)	Fire Assay		1.37	16.46
			20433	24-25.2 (1.2m)	Geochem		0.87	5.20
		- last 10 cm is limonitic breccia containing blotches and streaks of bright red, fine grained material that looks much like realgar or cimmabar??	20434	25.2-26.2 (1.0m)	Geochem		0.55	0.20
		- quartz veinlets common from 21.3-25m where 58 were observed, along with some massive siliceous zones 1-2 cm wide @ 22.4, 23.4.						
		- most veinlets 50-70° to C.A.						
		- rest of section from 25-26.2 averaged 1-2/meter.						



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Page 1 of 5  
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PROPERTY BLACK DOME

HOLE No. DDH-12

SHEET No. 4 of 5

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
26.2-29.4	(0.1m)	Pale Gray-Green, Coarse, Altered Rhyolite Breccia. - fragments up to 10 cm, consist of pale green to white porphyritic fragments in a gray matrix. - limonite fractures and pitted surface from weathered out pyrite still seen.	20435	26.2-29.4	(3.2m)	Geochem	0.20	0.6
		- spots of brick red material noted in above section are found in limonitic zones @ 28-28.2; 28.6-28.8; 29-29.1. - few quartz veinlets 1-2/m.						
29.4-35.5	(1.1m)	Light Gray, Locally Limonitic and Striped Rhyolite Breccia. - main rock type is a pale gray rhyolitic breccia consisting of pale green-white fragments in a gray matrix. - this section is much more broken than above and contains abundant patches of very soft altered rock.	20436	29.4-31.4	(2.0m)	Geochem	0.19	0.6
		- 29.6-29.8 - red mineral noted as above, also @ 30-30.6 - cherty blebs and streaks of gray cherty material.	20437	31.4-35.5	(4.1m)	Geochem	0.28	0.4
35.5-38.4	(0.2m)	Pale Gray to Green, Fine to Coarse Sedimentary Breccia. - fragments vary from 2-3 mm to 1.0-1.5 cm in coarse sections, fragments generally angular to subangular.	20438	35.5-38.4	(2.9m)	Geochem	0.07	0.6



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PROPERTY.....BLACK DOME.....

HOLE No. ...DDH-13.....

DIP AND AZIMUTH TEST		
Corrected		
Footage	Angle	Azimuth

Core Size ..BQ.....  
 Angle of Hole .....45°.....  
 Claim.....Dome #2.....  
 Section.....  
 Bearing .....105°.....

Total Depth .....71.0m.....  
 % Recovery .....85%.....  
 Elev. Collar .....2009.7.....  
 Latitude .....12+70S.....  
 Departure .....2+36W.....

Sheet No .....1..... of .....5.....  
 Logged by.....W. Gruenwald.....  
 Date Begun.....Aug. 19/79.....  
 Date Finished Aug. 24/79.....  
 Core Stored At BAF WHSE.....

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
0-3.1		Casing						
3.1-13	(6.8m)	White, Well Altered Locally Striped Rhyolite (Ash)?						
		- rock is generally altered to white amorphous material (clays) and is often limonite spotted from weathering of small pyrite cubes.	20439	5-10m	(5.0m)	Geochem	0.03	0.2
		- locally material is laminated with laminae @ 45° to C.A.	20440	10-15m	(5.0m)	Geochem	0.03	0.2
		- no quartz veinlets noted.						
13.-25.5	(1.6m)	Pale Green, Locally Purplish + White, Well Altered Rhyolite (Local Autobrecciated Material and Thunder Egg Horizons)						
		- quite a variable section						
		- much of the section consists of pale green, amorphous soft material, locally streaky @ 30-45° to C.A.	20441	15-20m	(5.0m)	Geochem	0.03	0.2
			20442	20-25m	(5.0m)	Geochem	0.68	0.8
			20443	25-28.1	(3.1m)	Geochem	0.02	0.2
		- spheroidal purplish + white masses are noted quite often within pale green material; some masses contain vugs with abundant quartz crystals.						

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PROPERTY BLACK DOME

HOLE No. DDH-13

SHEET No. 2 of 5

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
13-25.5		- i.e. 15.8-15.9; 18.6-18.8; 18.9-19.0; 21.4-21.6; 22.5-22.7.						
		- finely autobrecciated material also noted - sometimes associated with purplish + white spheroidal growths.						
		- limonitic fractures common throughout section.						
25.5-28.1 (0.1m)		Gray, Altered Finely Autobrecciated Rhyolite.						
		- core has finely shattered appearance especially in the white portions where the cracks are filled with a gray material - quartz.						
		- limonitic fractures still common.						
		- no quartz veinlets, some drusy cavities.						
28.1-31.9 (0.0m)		Gray and White Coarsely Brecciated, Altered Rhyolite.						
		- consists of white, well altered fragments that are often quite rounded in a fine grained pale gray matrix of smaller fragments and crystals.	20444	28.1-31.9 (3.8m)	Geochem		0.01	0.2
		- fragments from < 0.5 cm to 2.5 cm across.						
		- quartz veinlets 1/meter.						
31.9-41.3 (0.1)		Gray-Limonitic "Mosaic" Brecciated Rhyolite.						
		- consists primarily of light gray, subrounded fragments in a gray + white matrix.	20445	31.9-35 (3.1m)	Geochem		0.03	0.2
			20446	35-40 (5m)	Geochem		0.01	0.2
		- fragments from 0.5-4 cm (some larger) - some pieces appear as though they would fit together.						
		- limonitic discoloration pervasive						
		- rock is becoming harder (ie > quartz, < alterations)						

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PROPERTY BLACK DOME HOLE No. DDH-13 SHEET No. 3 of 5

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
31.9-41.3		- quartz veinlets 1-2/meter, usually 60-65° to C.A. - 34.85 - possible fault gouge - yellow, highly weathered; several minor quartz veinlets from 39 to 40 m. (approx. 1-2 mm wide).						
41.3-46.2 (0.0m)		Pale buff to gray altered and weakly brecciated rhyolite. Bleaching and argillic alteration throughout. Faint outlines of fragments minor mottled limonite staining.	20447	40-45 (5m)	Geochem		<0.01	0.2
			20448	45-46.2 (1.2m)	Geochem		0.03	0.4
46.2-50 (0.07m)		Greenish gray to yellowish brown (if oxidized) volcanoclastic sediments; some sorting - bedding at 35° to core axis; where unoxidized, frequent small pyrite cubes scattered (.1 mm in size). Frequent brown and black coatings along fractures and some thin veneers of tiny quartz crystals; minor solution cavities; most fragments are purplish to bleached, greenish white rhyolite; occasional larger fragments to 6 cm; smaller fragments generally less than 1 cm.	20449	46.2-50 (3.8m)	Geochem		0.03	0.8
50-55 (0.12m)		Primarily sedimentary breccia of rhyolite fragments; probably partly waterlain and partly airfall; some sorting - most fragments from .5 to 1 cm; occasional larger fragments to 8 cm; section from 53.6-53.7 has 3-4 vuggy quartz veinlets up to 4 mm wide; minor	20450	50-53.4 (3.4m)	Geochem		0.01	0.2
			20451	53.4-53.8 (0.4m)	Fire Assay		0.07	0.70

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PROPERTY BLACK DOME

HOLE No. DDH-13

SHEET No. 4 of 5

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
50-55		amorphous quartz on either side this section.	20452	53.8-55	(1.2m)	Geochem	0.01	0.2
55-58.5	(0.1m)	Primarily rhyolite breccia or volcanoclastic sediments as before; several larger pieces of exotic material and one large bomb (15-20 cm) of ? rhyolitic or dacitic material.	20453	55-58.5	(3.5m)	Geochem	0.04	0.6
58.5-59.5	(0.05m)	Similar to last section; more bleached than previous sections; occasional blebs of ?primary gray quartz.	20454	58.5-59.5	(1m)	Fire Assay	0.14	1.71
59.5-60.0	(0.1m)	Bleached rhyolite breccia as before scattered thin veinlets of gray quartz up to 2 mm wide.	20455	59.5-60	(0.5m)	Fire Assay	0.69	8.23
60-61.5	(1.0m)	Similar bleached rhyolite breccia with scattered quartz veinlets; very poor recovery - small pieces of rounded core.	20456	60-60.5	(0.5m)	Fire A.	31.20	2173.73
			20457	60.5-61	(0.5m)	Fire A.	24.41	747.43
			20458	61-61.5	(0.5m)	Fire A.	92.57	2811.45
61.5-64.6	(0.2m)	Greenish gray to pale buff, fine grained and porphyritic dacite dike. First 50 cm of core highly broken - most core lost here; scattered quartz veinlets up to 1 cm wide at from 10° to 70° to core axis; estimate 20 quartz veinlets in this section - most in first 1 1/2 m; some sections bleached to pale buff colour.	20459	61.5-63	(1.5m)	Fire Assay	2.74	46.63
			20460	63-64	(1m)	Geochem	0.02	1.2



# KERR—DAWSON & ASSOCIATES LTD. - DIAMOND DRILL RECORD

Suite 1 - 219 Victoria St.  
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PROPERTY..... Black Dome .....

HOLE No. .... DDH-14 .....

DIP AND AZIMUTH TEST		
Corrected		
Footage	Angle	Azimuth

Core Size ..... BQ .....

Angle of Hole ..... -70 .....

Claim..... .....

Section..... .....

Bearing ..... 105°T. ....

Total Depth ..... 76.2m .....

% Recovery ..... 97% .....

Elev. Collar ..... 1996.0 .....

Latitude ..... 6+40S .....

Departure ..... 2 + 27E .....

Sheet No ..... 1 ..... of ..... 6 .....

Logged by ..... J. M. Dawson .....

Date Begun ..... Aug. 22/79 .....

Date Finished ..... Aug. 25/79 .....

Core Stored At ..... BAF WHSE. ....

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE				Au(g/t)	Ag(g/t)
0-4.6		Casing							
3.1-4.9	(.05m)	Grey green dacite or andesite dike ? or flow; phenocrysts of feldspar-up to 4 mm. across and scattered smaller phenocrysts of biotite in a fine grained, dense, greenish groundmass, fine narrow quartz stringers between 4.2 and 4.6m.							
4.9-7.3	(0.2m)	4.9 to 5.9 similar green grey andesite; 5.9 to 7.9 andesite is bleached and altered to pale buff or limonite - stained rock. 2 narrow quartz stringers @ 4.95 m; 3 narrow quartz stringers @ 5.3m, one @ 7.1 m.							
7.9-10.7	(0.05m)	Similar green grey andesite; bleached and mottled locally because of hydrothermal alteration; 13 quartz stringers between 8.25 and 10.5 m.							
10.7-12.6	(0.05m)	Light to dark green-grey andesite; 17 quartz veinlets between 10.9 and 12.1 m; most are hairline width; however 2 are 4-6 mm wide.							





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Box 1 - 210 Victoria St.  
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PROPERTY Black Dome HOLE No. DDH-14 SHEET No. 3 of 6

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
22.6-25	0 (0.08m)	Similar andesite - bleached and limonite stained in first 0.7m; 4 quartz veinlets between 22.6 and 24.7m.						
25.0-26	5 (0.0m)	Similar green-grey andesite; 6 quartz veinlets between 25.6 and 26.4 m.						
26.5-28	(0.15m)	Green-grey to brownish, slightly altered andesite; quartz veinlets @ 27.97m.						
28.0-31	1 (0.05m)	Green-grey andesite; limonite staining along fractures; traces of quartz at some of these fractures.						
31.1-31	7 (0.03m)	Similar to last section.						
31.7-34	7 (0.3m)	Green-grey andesite becoming progressively more altered through the section; last 0.7m is intensely bleached brecciated, and friable; major fault zone or zone of hydrothermal alteration here; quartz veinlets @ 32.65 and 32.75.	#20463	32-33	(1.0m)	Geochem	0.26	1.7
			#20464	33-34	(1.0m)	Geochem	0.38	1.6
			#20465	34-35	(1.0m)	Geochem	0.17	1.2
34.7-36	0 (0.7m)	Very altered, friable andesite except for last 0.75 m, probably all gouge in lost core.	#20466	35-36	(1.0m)	Geochem	0.04	0.8

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PROPERTY Black Dome

HOLE No. DDH-14

SHEET No. 4 of 6

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
36.0-38.4	4 (0.1m)	36 to 36.3 green-grey andesite veined by many,	#20467	36.-36.5	(0.5m)	Fire A.	0.137	0.70
		tiny incipient cracks lined with limonite;	#20468	36.5-37	(0.5m)	Fire A.	0.206	3.09
		36.3-38.4 - buff to pale brownish and friable	#20469	37-37.5	(0.5m)	Fire A.	0.343	0.70
		altered andesite cut by frequent veins and string-	#20470	37.5-38	(0.5m)	Fire	0.411	1.71
		ers of quartz.				Assay		
			#20471	38-38.5	(0.5m)	Fire	0.103	0.70
						Assay		
38.4-39.6	6 (0.0m)	Brownish altered andesite; much broken core;						
		several thin quartz stringers in first 0.2m						
		section.	#20472	38.5-40	(1.5m)	Geochem	0.35	1.2
39.6-41.2	2 (0.1m)	Greenish grey to brownish altered andesite;						
		core frequently broken; scattered minor quartz	#20473	40-41	(1.0m)	Geochem	0.11	0.4
		stringers between 40.2 and 40.4m.	#20474	41-42.5	(1.5m)	Geochem	0.10	0.4
41.2-42.7	7 (0.05m)	Greenish brown andesite becoming more altered						
		in last 0.6m; 9 quartz stringers between 41.2						
		and 42.6.						
42.7-44.2	2 (0.0m)	Highly bleached and altered andesite; last	#20475	42.5-43	(0.5m)	Fire A.	0.206	0.70
		0.35 m section is brecciated and friable gouge;	#20476	43-43.5	(0.5m)	Fire A.	0.274	0.70
		13 quartz veinlets between 42.9 and 43.9.	#20477	43.5-44	(0.5m)	Fire	0.240	1.03
						Assay		
44.2-46.3	3 (0.2m)	From 44.2 to 45.55 bleached, brecciated and						
		altered andesite; frequent to scattered quartz	#20478	44-44.5	(0.5m)	Fire A.	0.274	0.70
		veinlets and stockwork; 45.55 - 46.3 dark green-	#20479	44.5-45	(0.5m)	Fire A.	0.206	3.09
		grey porphyritic andesite.	#20480	45-45.6	(0.6m)	Fire	0.137	1.37
						Assay		





# KERR—DAWSON & ASSOCIATES LTD. - DIAMOND DRILL RECORD

Suite 1 - 219 Victoria St.  
Kamloops, B.C.  
Phone 374-0544

PROPERTY.....Black Dome.....

HOLE No. ....DDH-15.....

DIP AND AZIMUTH TEST		
Corrected		
Footage	Angle	Azimuth

Core Size .....BQ.....  
 Angle of Hole .....-45°.....  
 Claim.....  
 Section.....  
 Bearing .....105°T.....

Total Depth .....44.5m.....  
 % Recovery .....87%.....  
 Elev. Collar .....2012.3.....  
 Latitude .....13+54S.....  
 Departure .....2+70W.....

Sheet No .....1..... of .....4.....  
 Logged by.....James M. Dawson.....  
 Date Begun.....August 28/79.....  
 Date Finished.....August 30/79.....  
 Core Stored At.....BAF WHSE.....

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
0-3.1		Casing						
3.1-7.9	(3.7m)	Very poor recovery; white to buff and reddish rhyolitic tuff and fine grained breccia; few narrow gray quartz stringers at 45° to core axis.	#20501	4-5	(1.0m)	Geochem	0.08	0.8
			#20502	5-6	(1.0m)	Geochem	0.01	0.2
			#20503	7-8	(1.0m)	Geochem	0.10	0.2
7.9-8.5	(0.4m)	Poor recovery; buff to grey rhyolitic tuff; some evidence of quartz veining - quartz vein material in some small chips of core.	#20504	8-9	(1.0m)	Fire Assay	2.571	11.31
8.5-9.7	(0.55m)	Poor recovery; gray to buff silicified rhyolite tuff and tuff breccia; scattered quartz veinlets up to 1 cm. wide, hanging wall of the mineralized zone?	#20505	9-10	(1.0m)	Fire Assay	0.343	0.70
9.7-11.0	(0.25m)	Gray to orange-buff silicified rhyolite tuff-breccia or sedimentary breccia-predominantly rhyolite fragments; heavily silicified and has scattered gray quartz veins and stockwork.	#20506	10-10.5	(0.5m)	Fire Assay	21.26	12.69
			#20507	10.5-11	(0.5m)	Fire Assay	0.343	1.03
11-12.8	(0.18m)	Gray to buff-orange and mottled, flow banded rhyolite or welded tuff with coarse breccia	#20508	11-12	(1.0m)	Fire Assay	0.343	1.03

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PROPERTY Black Dome

HOLE No. DDH-15

SHEET No. 2 of 4

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
		horizons; whole section is silicified and cut						
		by scattered veinlets and stockwork of gray						
		quartz; minor fine grained pyrite in some	#20509	12-13	(1.0m)	Geochem	0.08	0.2
		rhyolite fragments in breccia zones.						
12.8-14	(0.06m)	Buff to red and mottled, chaotic rhyolite breccia;						
		several different kinds of rhyolite fragments - whitish						
		flow banded type; red porphyritic varieties; altered						
		sediment fragments or rusty rhyolite, pieces of						
		red breccia with white altered rhyolite fragments.	#20510	13-15	(2.0m)	Geochem	0.16	0.4
		Some pieces look as if matrix was hot - partly embayed and						
		resorbed, maybe later deuteritic solution activity;						
		this section is much less silicified than previous						
		section although there are 3-4 narrow gray quartz stringers.						
14.0-15.2	(0.1m)	Flow banded, gray to buff rhyolite, continuing						
		large (10 cm) fragments of red rhyolite						
		sometimes encircled by capsule of gray						
		quartz (2-3 mm thick).						
15.2-17.1	(0.08m)	Multicoloured, flow banded rhyolite or welded						
		tuff with some larger embayed fragments of red						
		rhyolite breccia as well as other types of						
		altered rhyolite enclosed in lighter flow						
		banded material - some auto brecciated areas,						
		3-4 veinlets of gray quartz.						

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PROPERTY Black Dome

HOLE No. DDH-15

SHEET No. 3 of 4

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
17.1-20.2	2 (0.05m)	Multicoloured rhyolite agglomerate; rounded and embayed fragments of red to purplish rhyolite in a white to buff matrix which has some flow structure; a number of vugs or thunder eggs with good euhedral quartz crystals - some cavities up to 10 cm. across.						
20.2-23.2	2 (0.0m)	From 20.2 to 21.5 "cold" detrital rhyolite breccia with later silica filling some cavities and coating fragments. 21.5-23.2 - reddish, porphyritic? rhyolite agglomerate with pieces up to 6-8 cm. in diameter; commonly with cavities lined with quartz; these fragments lie in a finer grained red, streaked and mottled groundmass - streaks are probably trails of gas bubbles now filled with secondary clays.						
23.2-26.2	2 (0.05m)	Purplish red to multicoloured rhyolite agglomerate; scattered quartz-filled vugs or thunder eggs; some mammillary and pisolitic growths and fragments.						
26.2-29.3	3 (0.15m)	Purplish red to buff, flow banded rhyolite with coarse agglomerate horizons; some local auto brecciation; rounded layers of later quartz around some fragments; scattered quartz lined cavities or vugs.						



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PROPERTY Black Dome HOLE No. DDH-15 SHEET No. 4 of 4

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
29.3-32.3	(0.0m)	Purplish gray to rusty buff, good flow banded, rhyolite, welded tuff, frequent rounded, pisolites or partly resorbed fragments with flow banding wrapped around; minor small, quartz-lined cavities.						
32.3-35.4	(0.0m)	Multicoloured, flow banded, rhyolite welded tuff with frequent auto brecciated horizons; some minor vuggy cavities.						
35.4-38.4	(0.0m)	Red to buff and light brown, multicoloured, flow banded rhyolite welded tuff; sedimentary breccias of rhyolite fragments between 36.65 and 37.2; scattered minor cavities; local flow folding - much of flow banding is almost parallel to core axis.						
38.4-41.5		Red and white, spectacular, flow banded, rhyolite welded tuff; occasional accidental fragments of older rhyolite enclosed by flow banding; minor solution cavities.						
41.5-44.5	(0.0m)	Similar to last section.						
		END OF HOLE.						

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PROPERTY..... Black Dome.....

HOLE No. .... DDH-16.....

DIP AND AZIMUTH TEST		
Corrected		
Footage	Angle	Azimuth

Core Size ..... BQ.....  
 Angle of Hole ..... -45°.....  
 Claim.....  
 Section.....  
 Bearing ..... 105°T.....

Total Depth ..... 39.9 m.....  
 % Recovery ..... 90%.....  
 Elev. Collar ..... 1980.9.....  
 Latitude ..... 10+50S.....  
 Departure ..... 0+00.....

Sheet No ..... 1 ..... of ..... 4 .....  
 Logged by ..... James M. Dawson.....  
 Date Begun ..... Aug. 26/79.....  
 Date Finished ..... Aug. 27/79.....  
 Core Stored At ..... BAF WHSE.....

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
0-4.6		Casing						
4.6-5.8	(0.1m)	Dark greenish-grey, fine grained, slightly porphyritic andesite flows?						
5.8-7.6	(0.1m)	Dark green grey andesite as before; some hematite staining along fractures.						
7.6-8.8	(0.0m)	Similar to last section.						
8.8-9.8	(0.05m)	Similar to last section.						
9.8-10.9	(0.10m)	Similar to last section.						
10.9-12.2	(0.03m)	Similar to last section.						
12.2-13.4	(0.0m)	Similar to last section.						
13.4-14.9	(0.2m)	Dark greenish grey to red-brown slightly porphyritic, dense, fine grained andesite or ? dacite flow.						

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1 of 2

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1 - 240 Vict  
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PROPERTY Black Dome

HOLE No. DDH-16

SHEET No. 2 of 4

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
14.9-15.9	(0.0m)	Similar to last section.						
15.9-16.8	(0.0m)	Greenish grey, fine grained, slightly porphyritic andesite, with streaks and stringers of hematite.						
16.8-19.8	(0.05m)	Greenish grey to red-brown, fine grained slightly porphyritic andesite or dacite; some minor brecciation; much hematite staining along many tiny incipient fractures; minor calcite veining.						
19.8-21.2	(0.05m)	Similar to last section.						
21.2-22	(0.05m)	Greenish grey to red-brown, slightly porphyritic andesite; minor coarse tuff? horizon or breccia of greenish andesite cemented by hematite material.						
22-22.8	(0.05m)	Fine grained, greenish gray, slightly porphyritic andesite with scattered streaks and blebs of hematite.						
22.8-23.6	(0.05m)	Dark to light greenish grey, slightly porphyritic andesite; section of andesitic tuff from 23.3 to 23.6 - rounded greenish fragments of andesite (up to 2.5 cm) in matrix of						

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PROPERTY Black Dome

HOLE No. DDH-16

SHEET No. 3 of 4

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
		reddish hematitic material.						
23.6-24.1	(0.0m)	Greenish grey, slightly porphyritic andesite, core is highly broken towards end of section.						
24.1-25.8	(0.25m)	Greenish grey, fine grained, slightly porphyritic andesite with scattered red-brown hematite clots and streaks.						
25.8-26.5	(0.0m)	Similar to last section.						
26.5-29.4	(0.0m)	Similar to last section.						
29.4-30.3	(0.15m)	Similar to last section.						
30.3-32.6	(0.15m)	Similar to last section.						
32.6-36.0	(0.8m)	From 32.6 - 33.6 - similar to last section; from 33.6 - ~ 35 - core very broken; some alteration - bleaching of core; 35-36 essentially all lost core - gouge zone - fault here! - @ 35 m.						
36.0-36.9	(0.3m)	Essentially similar dark, greenish grey, slightly porphyritic andesite or dacite; core very broken as near fault zone.						



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PROPERTY.....Black Dome.....

HOLE No. ....DDH-17.....

DIP AND AZIMUTH TEST		
Corrected		
Footage	Angle	Azimuth

Core Size .....BQ.....  
 Angle of Hole .....-45°.....  
 Claim.....  
 Section.....  
 Bearing .....105°T.....

Total Depth .....64.3 m.....  
 % Recovery .....88%.....  
 Elev. Collar .....1986.8.....  
 Latitude .....10+40S.....  
 Departure .....0+43W.....

Sheet No .....1..... of .....7.....  
 Logged by .....James M. Dawson.....  
 Date Begun .....August 28/79.....  
 Date Finished .....August 30/79.....  
 Core Stored At .....BAF WHSE.....

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
0-3.05		Casing						
3.5-4.3	(0.4m)	Very poor recovery; bleached and altered andesite with scattered stringers and veins of quartz.	#20481	3.05-4 (0.95m)	Geochem		0.23	5.9
4.3-4.88	(0.1m)	Green grey to bleached andesite with scattered quartz veinlets and stringers; less quartz than last section.	#20482	4-5 (1.0m)	Geochem		0.21	1.0
4.88-6.4	(0.05m)	Greenish grey to creamy buff, altered andesite cut by at least 20 quartz veinlets; 1-5 mm wide; vuggy in places, frequent limonite staining.	#20483	5-5.5 (0.5m)	Fire A.		0.960	1.03
			#20484	5.5-6 (0.5m)	Fire Assay		0.070	1.37
			#20485	6-6.5 (0.5m)	Fire A.		0.206	0.70
6.4-7.6	(0.0m)	From 6.4 to 6.5 broken core of bleached andesite with some quartz veinlets; 6.5-6.65 green grey andesite with no quartz veinlets; 6.65 to 6.85 altered andesite with scattered quartz veinlets; 6.85-6.95 solid white, vuggy vein quartz.	#20486	6.5-7 (0.5m)	Fire A.		0.240	1.03
			#20487	7-7.5 (0.5m)	Fire Assay		0.171	4.80

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HOLE No. DDH-17

SHEET No. 2 of 7

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
7.6-8.2	(0.2m)	Buff to grey heavily silicified and altered andesite with quartz stockwork.	#20488	7.5-8	(0.5m)	Fire Assay	1.234	28.11
8.2-8.8	(0.05m)	Similar to last section.	#20489	8-8.5	(0.5m)	Fire Assay	0.617	26.40
8.8-9.8	(0.4m)	From 8.8 to 9.7 poor recovery-buff to white, somewhat limonite stained and altered andesite? with quartz stockwork as in last 2 sections.	#20490	8.5-9	(0.5m)	Fire Assay	0.137	7.54
		9.7-9.8 - rusty, poorly consolidated gouge.	#20491	9-10	(1.0m)	Fire Assay	1.234	12.69
9.8-10.7	(0.2m)	Similar buff-white, altered andesite with quartz stockwork - whole section is silicified; limonite staining on many fracture surfaces.	#20492	10-11	(1.0m)	Fire Assay	0.309	12.34
10.7-11.4	(0.15m)	Similar to last section; grey white to orange-brown altered and silicified andesite? intense stockwork of quartz.	#20493	11-12	(1.0m)	Fire Assay	0.171	14.74
11.4-12.8	(0.75m)	Poor recovery; buff to grey altered rhyolite? andesite? with scattered quartz stockwork.	#20494	12-13	(1.0m)	Geochem	0.12	2.4
12.8-13.7	(0.5m)	Very poor recovery; buff to white altered rhyolite or rhyolite tuff? cut by scattered grey quartz stringers.	#20495	13-14	(1.0m)	Geochem	0.05	1.9
13.7-14.6	(0.5m)	Very poor recovery; white to buff brecciated rhyolite? cut by scattered grey quartz veinlets.						

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2101 Vict  
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HOLE No. DDH-17

SHEET No. 3 of 7

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
			#20496	14-15	(1.0m)	Geochem	0.08	1.4
14.6-15.2 (0.25m)		Poor recovery; grey to white altered fine grained rhyolite breccia? or tuff?; cut by several grey quartz veins.						
15.2-16.2 (0.2m)		Similar rhyolite? tuff or tuff breccia, fragments average 4 mm in diameter; cut by scattered grey quartz veins.						
16.2-16.8 (0.07m)		Similar light to dark grey tuff or breccia; scattered grey quartz veinlets.	#20497	15-17	(2.0m)	Geochem	0.04	1.2
16.8-17.5 (0.22m)		Similar tuff breccia, possibly some pisolitic sections.						
17.5-18 (0.08m)		Similar buff to darker grey rhyolitic tuff or tuff breccia; minor grey quartz veinlets.	#20498	17-19	(2.0m)	Geochem	0.03	1.2
18.0-18.4 (0.08m)		Similar pale buff, rhyolite breccia with vuggy grey quartz veins common in last 0.2 meter section.						
18.4-19.2 (0.5m)		Mottled, buff grey rhyolitic tuff or ignimbrite; scattered grey, vuggy quartz veinlets.						
19.2-19.8 (0.5m)		Very poor recovery - similar to last section.	#20499	19-20	(1.0m)	Geochem	1.38	0.7



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Sheet 1 of 7  
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PROPERTY Black Dome

HOLE No. DDH-17

SHEET No. 4 of 7

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
19.8-20.4	(0.35m)	Very poor recovery - similar to last section.						
20.4-21	(0.2m)	Core very broken; mottled to flow banded rhyolitic tuff with some scattered quartz veinlets; last 0.2 meter in grey quartz or quartz stockwork in altered rhyolite.						
21.-21.6	(0.2m)	Silicified rhyolite breccia or quartz stockwork; breccia mainly rhyolite fragments - may be sedimentary.	#20500	20-21.5	(1.5m)	Fire Assay	0.446	16.46
21.6-22.9	(0.18m)	Primarily volcanoclastic breccia of rhyolitic material; poorly layered in early part of section (~25° to core axis) - fragments finer grained here; more chaotic towards end of section; several thin grey quartz stringers.						
22.9-23.3	(0.0m)	Volcanoclastic sediments primarily rhyolite fragments; mostly from .2 to 1 cm in size in fine grained greenish matrix; fragments subrounded; one 2 cm layer of very fine grained mudstone runs - 30° to core axis.						
23.3-24.7	(0.25m)	Sedimentary, polymictic breccia or conglomerate; no sorting; fragments up to 3 cm; fragments of rhyolite and andesite of various colours.						

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PROPERTY Black Dome

HOLE No. DDH-17

SHEET No. 5 of 7

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
24.7-25.9	(0.0m)	Similar polymictic breccia; most fragments subrounded - 1-1.5 cm. in size; occasional fragments 8-12 cm in size.						
25.9-27.7	(0.0m)	Similar, multicoloured, polymictic breccia (sedimentary) from 25.9 to 26.65; from 26.65 to end of section - rock grades to greenish chloritic fragmental - tuff? - ghostlike fragments in pervasive chloritic rock at end of section.						
27.7-28.3	(0.0m)	Primarily greenish chloritized fragmental rock as last.						
28.3-30.2	(0.0m)	Primarily light greenish, chloritic andesite flow or tuff (or dike??) brecciated in places.						
30.2-32.1	(0.0m)	Similar to last - occasional blebs of hematitic material.						
32.1-35.1	(0.0m)	Similar to last section.						
35.1-38.1	(0.06m)	Pale greenish, chloritic andesite flows or ? tuffs; minor coarser fragmentals in part.						
38.1-41.2	(0.0m)	Similar to last section.						

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PROPERTY Black Dome

HOLE No. DDH-17

SHEET No. 6 of 7

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
41.2-44.2	(0.0m)	Pale greenish, chloritic andesite; with scattered brecciated and fragmental horizons.						
44.2-46.6	(0.0m)	Pale greenish to dark green grey porphyritic andesite - grading to more massive, much less altered andesite - some local fragmentals or brecciation; local hydrothermal alteration.						
46.6-47.9	(0.3m)	Light greenish, altered andesite tuff; autobrecciated in part.						
49.7-51.8	(0.0m)	Light to dark greenish grey, andesite crystal tuff? suggestion of bedding at 60° to core axis.						
51.8-53.4	(0.15m)	Pale greenish-brown altered andesite tuff? with some coarser fragmental horizons; fragments up to 2 cm. in diameter.						
53.4-54.9	(0.25m)	Similar to last section.						
54.9-55.8	(0.1m)	Similar to last section.						
55.8-57.3	(0.0m)	Pale greenish brown altered andesite tuff and agglomerate; larger fragments up to 8-10 cm. in diameter.						



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PROPERTY..... Black Dome.....

HOLE No. .... DDH-18.....

DIP AND AZIMUTH TEST		
Corrected		
Footage	Angle	Azimuth

Core Size ..... BQ.....  
 Angle of Hole ..... -45°.....  
 Claim.....  
 Section.....  
 Bearing ..... 105°T.....

Total Depth ..... 42.0m.....  
 % Recovery ..... 95%.....  
 Elev. Collar ..... 1992.8.....  
 Latitude ..... 10+30S.....  
 Departure ..... 0+82W.....

Sheet No ..... 1..... of ..... 5.....  
 Logged by ..... James M. Dawson.....  
 Date Begun ..... August 30/79.....  
 Date Finished ..... Sept. 1/79.....  
 Core Stored At ..... BAF WHSE.....

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
0-6.1		Casing.						
6.1-8.2	(0.15m)	Buff to greenish grey and frequently limonite stained, highly altered andesite; much core broken and frequent limonite coatings on fractures; several minor quartz stringers; last 0.1m section is silicified - buff to pale brown.	#20511	6.1-8	(1.9m)	Geochem	0.03	0.9
8.2-10.1	(0.15m)	From 8.2 to 8.5 buff to orange - brown silicified breccia - stockwork; from 8.35-8.85 altered green to white andesite with frequent heavily limonite stained envelopes around fractures; 8.85-10.1 mostly greenish brown, somewhat altered porphyritic andesite.	#20512	8-8.4	(0.4m)	Fire Assay	0.070	1.37
			#20513	8.4-9.5	(1.1m)	Geochem	0.02	0.7
10.1-11.9	(0.0m)	Greenish brown, moderately altered porphyritic andesite; 4 thin quartz stringers in this section.						
11.9-13.1	(0.1m)	Similar to last section.						



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PROPERTY Black Dome HOLE No. DDH-18 SHEET No. 3 of 5

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
25.3-28.3	0.1m	Primarily greenish brown to buff altered porphyritic andesite; from 25.48-26.0 altered zone containing 6-10 quartz stringers and some gouge and stockwork (3 of stringers are from 1-2 cm wide, at 60-70° to core axis); only 5 thin quartz stringers in remainder of section.	#20514	25.5-26	(0.5m)	Fire Assay	0.070	1.37
			#20515	26-26.5	(0.5m)	Geochem	0.02	0.6
28.3-31.1	0.1m	Primarily greenish brown, moderately altered andesite; 3 cm quartz-jasper vein @ 28.4m; 5 mm quartz-jasper vein @ 29.12 m.						
31.1-33.5	0.07m	Light greenish-grey andesite or dacite tuff with suggestions of flow banding at about 25° to core axis; 6 thin quartz veinlets in last 0.5m section.						
33.5-34.4	0.1m	Red to pale gray, medium to coarse volcanoclastic sediments; some thin beds in finer grained layers at about 30° to core axis; 4 quartz stringers in this section.	#20516	34-35	(1.0m)	Geochem	0.05	1.0
34.4-36.0	0.0m	From 34.4 to 35.25 mostly porphyritic greenish rhyolite flow mixed with the detrital sediments of the previous section; may have been erupted on unconsolidated sediments; from 35.25 to 35.6 mostly sandy to finely conglomeratic detrital sediments with a thin layer of rhyolite flow at top; from 35.2 to 35.4, 8 white quartz veins up to 1 cm.	#20517	35-35.5	(0.5m)	Fire Assay	0.103	2.40

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PROPERTY Black Dome

HOLE No. DDH-18

SHEET No. 4 of 5

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
		wide at 30° to core axis; from 35.5-35.85 quartz veins and stockwork in pale buff, altered rhyolite breccia; from 35.85 to 36 breccia of rhyolitic and sedimentary fragments.	#20518	35.5-36	(0.5m)	Fire Assay	0.070	1.03
36.0-36.9 (0.7m)		From 36-36.3 primarily volcanic wacke with 3 narrow grey quartz stringers; from 36.3 to 36.9 mostly greenish to buff-grey porphyritic; flow banded rhyolite; banding at 65° to core axis.	#20519	36-37	(1.0m)	Geochem	0.02	0.6
36.9-37.3		Greenish gray to buff and light brown, flow banded rhyolite; 2 thin quartz stringers in this section.						
37.3-38.1 (0.0m)		Similar to last section; 2-3 conformable grey quartz lenses- probably primary quartz.	#20520	37-38.5	(1.5m)	Geochem	0.02	0.3
38.1-38.7 (0.07m)		Similar to last section; 3 thin grey quartz veinlets.						
38.7-39.6 (0.05m)		Flow banded to more homogeneous grey rhyolitic tuff; frequent limonitic spots - presumably from weathered pyrite.						
39.6-39.9 (0.0m)		Similar to last section.						





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PROPERTY.....Black Dome.....

HOLE No. DDH-19.....

DIP AND AZIMUTH TEST		
Corrected		
Footage	Angle	Azimuth

Core Size .....BQ.....  
 Angle of Hole .....55°.....  
 Claim.....  
 Section.....  
 Bearing .....105°T.....

Total Depth .....49.7m.....  
 % Recovery .....81%.....  
 Elev. Collar .....1998.1.....  
 Latitude .....8+95S.....  
 Departure .....0+77E.....

Sheet No .....1..... of .....5.....  
 Logged by.....James M. Dawson.....  
 Date Begun.....Sept. 1/79.....  
 Date Finished.....Sept. 3/79.....  
 Core Stored At BAF WHSE.....

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
0-1.5m		Casing						
1.5-4.0	(1.5m)	Dark greenish grey, porphyritic andesite.						
4.0-5.3	(0.4m)	Pale greenish grey, partly altered porphyritic andesite.						
5.3-6.4	(0.05m)	Similar to last section.						
6.4-7.9	(0.05m)	Greenish grey, slightly altered andesite.						
7.9-10.1	(0.25m)	Primarily dark, greenish grey andesite; locally bleached and altered.						
10.1-12.0	(0.0m)	Similar to last section.						
12.0-14.6	(0.2m)	Greenish grey to pale greenish brown slightly altered andesite.						
14.6-16.5	(0.15m)	Pale greenish brown, slightly altered, porphyritic andesite.						

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PROPERTY Black Dome

HOLE No. DDH-19

SHEET No. 2 of 5

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
16.5-17.37	(0.45m)	Pale greenish, moderately altered andesite; much broken core.						
17.37-17.8	(0.05m)	Similar to last section.						
17.8-19.3	(0.15m)	Pale greenish brown to greenish buff; moderately altered, porphyritic andesite - occasional accidental fragments.						
19.3-22.3	(0.4m)	Similar to last section; much broken core.						
22.3-23.5	(0.1m)	Greenish brown, moderately altered, porphyritic andesite.						
23.5-25.6	(0.05m)	From 23.5 to 25, similar to last section; from 25 to 25.6 dark green grey, andesite - relatively unaltered.						
25.6-28.2	(1.2m)	Dark green grey to altered greenish brown andesite - last 1m section missing entirely - fault gouge - hanging wall fault?						
28.2-29.6	(0.55m)	Mostly pale greenish brown altered andesite.						
29.6-32.0	(0.05m)	Greenish brown, moderately altered andesite; 17 thin quartz stringers between 30.5 and 32.0.	#20536	30.5-32	(1.5m)	Geochem	0.10	0.7

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PROPERTY Black Dome HOLE No. DDH-19 SHEET No. 3 of 5

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
32.0-34.0	(0.2m)	Greenish brown to orange brown, altered andesite; rock turns to intensely altered, orange-brown andesite over a 0.5m section from 33.5-34; 16 thin quartz stringers over this section.	#20537	32-34	(2.0m)	Geochem	0.07	0.7
34.0-35.36	(0.25m)	Orange-brown altered and silicified andesite, laced by stockwork of grey quartz; vein quartz makes up 25-30% of rock volume.	#20538	34-35	(1.0m)	Fire Assay	0.171	6.51
35.36-36.0	(0.45m)	Silicified, altered, rhyolite breccia and stockwork.	#20539	35-36	(1.0m)	Fire Assay	0.171	6.17
36.0-36.6	(0.0m)	Orange-brown, silicified, altered andesite, laced with quartz stockwork; only 5-10% now is grey quartz veins.	#20540	36-37	(1.0m)	Fire A	0.137	1.37
			#20541	37-37.5	(0.5m)	Fire A	0.103	1.37
36.6-38.7	(0.2m)	Buff to orange-brown, altered andesite? Breccia - cut by quartz stockwork; 10-20% of volume is grey quartz; some vuggy cavities in quartz veins.	#20542	37.5-38	(0.5m)	Fire A	0.411	2.06
			#20543	38-38.5	(0.5m)	Fire Assay	0.171	2.06
			#20544	38.5-39	(0.5m)	Fire Assay	0.103	1.71
38.7-40.1	(0.15m)	Pale greyish to white and pale orange-brown, altered andesite(?) breccia - laced with grey, quartz stockwork; grey quartz veinlets make up 10-15% of rock volume.	#20545	39-39.5	(0.5m)	Fire A	0.171	2.40
			#20546	39.5-40	(0.5m)	Fire Assay	0.137	2.74

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PROPERTY Black Dome HOLE No. DDH-19 SHEET No. 4 of 5

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
40.1-41.5	(1.05m)	Mostly orange-brown to grey altered andesite with quartz stockwork as in last section; last bit of section is friable gouge; last 1.05m of section is lost - fault gouge? washed out.	#20547	40-40.5	(0.5m)	Fire Assay	0.171	2.06
41.5-42.1	(0.1m)	Dark brownish (rusty) friable gouge; small pieces of silicified, altered, andesite breccia in it.	#20548	41.5-42.5	(1.0m)	Fire Assay	0.137	1.03
42.1-42.7	(0.3m)	Grey to orange-brown, silicified andesite breccia; last 0.05 m is rusty, friable gouge; 0.3 m lost at end of section - fault?						
42.7-43.6	(0.0m)	Light grey to brownish and friable, highly altered andesite; 3-4 minor narrow quartz veins.						
43.6-44.8	(0.4m)	Primarily buff to rusty, light brown, highly altered andesite? last 0.25m is fault gouge (0.2m section lost at end of run).	#20549	42.7-45	(2.3m)	Geochem	0.04	0.5
44.8-46.3	(0.0m)	Buff to pale, rusty brown, highly altered andesite.						
46.3-47.86	(0.25m)	Similar to last section; some very friable zones.						

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PROPERTY.....Black Dome.....

HOLE No. ....DDH-20.....

DIP AND AZIMUTH TEST		
Corrected		
Footage	Angle	Azimuth

Core Size .....BQ.....  
 Angle of Hole .....-45°.....  
 Claim.....  
 Section.....  
 Bearing .....105°T.....

Total Depth .....50.0m.....  
 % Recovery .....87%.....  
 Elev. Collar .....2010.1.....  
 Latitude .....13+43S.....  
 Departure .....3+12W.....

Sheet No 1..... of .....6.....  
 Logged by ..James M. Dawson  
 Date Begun ..Aug. 31/79  
 Date Finished ..Sept. 2/79  
 Core Stored At ..BAF WHSE. ....

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
0-3.8		Casing						
3.8-5.2	(0.2m)	Light, greenish brown, altered porphyritic andesite.						
5.2-6.1	(0.15m)	Similar to last section.						
6.1-7.6	(0.75m)	From 6.1 to 7.1 similar to last section, becoming progressively more bleached, altered and friable towards 7.1; 7.1 to 7.6 very altered, friable and limonite - stained, volcanoclastic sediments.						
7.6-10.1	(0.5m)	From 7.6 to 8.6 pale and to buff volcanoclastic sediments - mainly rhyolitic fragments; volcanic wacke - unsorted with fragments to 5 mm, becoming very bleached at end of this section; 8.6-9 lost core - gouge zone? fault? 9-9.25 detrital volcanic wacke as before; 9.25-10.1 pale reddish white rhyolite tuff with occasional detrital accidental fragments; rock is still somewhat bleached and altered to clays.						

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PROPERTY Black Dome

HOLE No. DDH-20

SHEET No. 2 of 6

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
10.1-11.1	(0.05m)	Pale, red-buff to whitish green, altered and bleached rhyolite tuff.						
11-11.3	(0.05m)	Pale red-buff to greenish white altered rhyolite tuff-becoming very altered and bleached at end of section.						
11.3-14.3	(1.6m)	Extremely bleached, friable and clay-like rhyolite tuff; 1 1/2 meter section lost between 12 and 13.5 m - fault zone?						
14.3-16.7	(0.7m)	From 14.3 to 15 all core lost - gouge zone - fault! From 15 to 16.7 pale grey to purplish-buff, rhyolite tuff and breccia - somewhat bleached and altered in first part of section; minor detrital, sedimentary horizons.						
16.7-17.4	(0.0m)	Mottled, purplish to white and lightly limonite stained, rhyolite breccia - fragments to 3 cm.						
17.4-20.4	(0.0m)	Primarily pale gray to buff rhyolite breccia - some flow - banded horizons; at least 12 quartz veinlets, 2 to 1 cm. in width; some are conformable with flow banding and may be primary quartz; scattered, fine euhedral, pyrite cubes - peppered small rusty spots where similar pyrite	#20521	18.4-20.4	(2.0m)	Geochem	1.48	1.1

... have been weathered out



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HOLE No. DDH-20

SHEET No. 3 of 6

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
20.4-23.5	(0.05m)	Mostly medium to coarse rhyolite breccia, white to buff fragments, often of finely, flow-banded material in a purplish grey, groundmass; some fine, pyrite cubes, and fine limonite spots where some cubes oxidized; 3 thin quartz stringers.						
23.5-25.5	(0.04m)	Similar to last section; minor limonite-stained zones; minor pyrite along incipient fracture @ 25.1m.						
25.5-29.6	(0.05m)	White to buff and multicoloured, flow banded rhyolite; autobrecciation common; some of the bands are extremely thin and delicate; scattered limonite staining.						
29.6-32.7	(0.0m)	Finely banded, grey to white rhyolite welded tuff with frequent spectacular spherulites - some of which are hollow and have vuggy quartz fillings; 8 grey quartz veinlets in this section, 2 of which are 1 to 2 cm wide; flow banding is 10° to 50° to core axis; frequently folded.						
			#20522	31.7-33.25 (1.55m)	Geochem		0.03	0.4
32.7-34.5	(0.3m)	Similar to last section; some broken and friable sections; 4 grey quartz stringers - one about 1.5 cm wide.						

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Sheet 1 of 6  
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PROPERTY Black Dome

HOLE No. DDH-20

SHEET No. 4 of 6

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
34.5-36.9	(0.1m)	Similar to last section; 21 grey quartz veins, half of which are 1-2 cm wide; most at about 60° to core axis; flow banding is 45° to core axis in other direction from veins.	#20523	34.5-36	(1.5m)	Geochem	0.12	1.7
36.9-38.2	(0.35m)	From 36.9 to 37.75 similar to last section; 6 quartz veins in section, 2 of which are 1 cm. wide; 37.75 to 38.00 siliceous breccia, quartz veins and stockworks; last 2.2m core lost.	#20524	36-37.55	(1.55m)	Geochem	0.80	9.8
			#20525	37.55-38.5	(0.95m)	Fire Assay	14.40	42.51
38.2-38.7	(0.45m)	Primarily silicified breccia and quartz stockwork; light grey with frequent light orange-brown limonite staining.						
38.7-39.4	(0.2m)	Primarily purplish grey, finely banded, rhyolitic welded tuff.	#20526	38.7-39.8	(1.1m)	Geochem	0.16	2.3
39.4-40.6	(0.1m)	From 39.4-39.8 similar to last section; 2 or 3 narrow, grey, quartz stringers; 39.8 to 40.6 grey to orange-brown (fragments orange-brown and quartz grey) siliceous, altered, rhyolite breccia and stockwork; about 40-50° of total volume is grey quartz.	#20527	39.8-40.5	(0.7m)	Fire Assay	0.411	7.54
40.6-41.4	(0.3m)	Grey to buff, siliceous, rhyolite breccia; frequent, very fine grained pyrite cubes in the grey, unaltered, siliceous breccia.	#20528	40.5-41	(0.5m)	Fire A	0.171	1.03
			#20529	41-41.5	(0.5m)	Fire A	0.137	3.77

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PROPERTY Black Dome

HOLE No. DDH-20

SHEET No. 5 of 6

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
41.4-43.6	(0.65m)	Grey to orange-brown, siliceous, rhyolite breccia; silica makes up 15 to 60% of rock; fragments of buff to light orange brown make up remainder, occasional small, vuggy cavities; last 0.5 m section is completely lost; some areas of frequent, tiny pyrite cubes.	#20530	41.5-42	(0.5m)	Fire Assay	0.891	3.09
			#20531	42-42.5	(0.5m)	Fire Assay	0.789	1.37
			#20532	42.5-43	(0.5m)	Fire Assay	0.137	1.03
43.6-43.9	(0.04m)	Primarily, siliceous rhyolite breccia and stockwork as in last section; frequent very fine grained pyrite cubes.	#20533	43-44	(1.0m)	Fire Assay	0.070	1.03
43.9-46.5	(0.0m)	From 43.9 to 45.4 similar, silicified rhyolite breccia and stockwork; percentage of silica and veinlets is less - perhaps 10-20% of section; 45.4-46.3 buff to purplish grey, brecciated, altered rhyolite, fragments are buff to white - groundmass purplish grey; 3-4 thin quartz stringers in section; abundant small pits where pyrite cubes weathered out.	#20534	44-45	(1.0m)	Fire Assay	0.446	1.37
			#20535	45-46	(1.0m)	Geochem	0.27	0.5
46.3-47.9	(0.0m)	Similar to last section; mottled limonite staining in places.						
47.9-50	(0.0m)	From 47.9 to 49.1 light grey, rhyolite tuff (?) fairly homogeneous; autobrecciated in places; 2 thin quartz stringers; 49.1 to 50, dark grey por-						



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PROPERTY ..... Black Dome .....

HOLE No. .... DDH-21 .....

DIP AND AZIMUTH TEST		
Corrected		
Footage	Angle	Azimuth

Core Size ..... BQ .....

Angle of Hole ..... -45° .....

Claim..... .....

Section..... .....

Bearing ..... 105°T. ....

Total Depth ..... 30.0m .....

% Recovery ..... 86% .....

Elev. Collar ..... 2013.0 .....

Latitude ..... 13+74S .....

Departure ..... 3+26W .....

Sheet No ..... 1 ..... of ..... 3 .....

Logged by ..... James M. Dawson .....

Date Begun ..... Sept. 3/79 .....

Date Finished ..... Sept. 4/79 .....

Core Stored At ..... BAF WHSE. ....

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE		Au(g/t)	Ag(g/t)
0-3.1		Casing					
3.1-5.2	(1.2m)	Primarily white to buff, altered and silicified, rhyolite and rhyolite breccia; some quartz stockwork; difficult to tell where mineralized zone begins because of broken core and poor recovery.	#20550	3.1-5.0 (1.9m)	Fire Assay	2.091	25.71
5.2-5.5	(0.0m)	Grey to orange-brown, silicified rhyolite breccia and quartz stockwork.					
5.5-8.2	(0.4m)	Orange-brown, flow banded rhyolite and tuff; some portions locally brecciated; most areas are silicified and cut by a number of grey quartz veins and irregular stockworks, quartz makes about 10% of section.	#20551	5.0-5.5 (0.5m)	Fire A	9.260	11.31
			#20552	5.5-6 (0.5m)	Fire A	2.060	8.57
			#20553	6-7 (1.0m)	Fire Assay	0.514	5.49
			#20554	7-7.5 (0.5m)	Fire A	0.137	4.46
			#20555	7.5-8 (0.5m)	Fire Assay	0.137	2.06
8.2-11.3	(0.8m)	From 8.2 to 9.1 similar to last section but quartz veins becoming sparser and rhyolite less altered; from 8.2 to 8.65 lost core; from 9.1 to 11.3 white to grey and reddish, irregularly, flow banded rhyolite; 5 thin quartz veinlets in this section.	#20556	8-8.5 (0.5m)	Fire A	0.070	1.37
			#20557	8.5-9 (0.5m)	Fire A	0.137	5.83
			#20558	9-10 (1.0m)	Geochem	0.09	1.7

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PROPERTY Black Dome HOLE No. DDH-21 SHEET No. 2 of 3

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
11.3-12.5	(0.15m)	From 11.3 to 12 red to buff, flow banded, rhyolite - frequently autobrecciated; 12 to 12.5 pale yellowish brown very altered and friable rhyolite - fault zone?						
12.5-14.3	(0.10m)	White to buff and yellow-brown, bleached rhyolite - soft and friable in places.						
14.3-16.8	(0.6m)	From 14.3 to 14.9 primarily rusty, finely brecciated, rhyolite; from 14.9-15.3 light to dark grey, autobrecciated, flow banded rhyolite; from 15.3 to 16.2 white to light brown, bleached and altered rhyolite - clay alteration common; last 0.1m very altered and friable; last 0.6m lost - gouge?? fault zone? only one quartz veinlet in this whole section.						
16.8-19.8	(0.05m)	Buff to purplish red, flow banded rhyolite or welded tuff; some sections of breccia - fragments are primarily white, flow banded rhyolite; matrix is purplish grey, fine grained rhyolitic material.						
19.8-20.4	(0.0m)	Purplish, buff rhyolite tuff and brecciated tuff.						

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PROPERTY.....Black Dome.....

HOLE No. DDH-22.....

DIP AND AZIMUTH TEST		
Corrected		
Footage	Angle	Azimuth

Core Size .....BQ.....  
 Angle of Hole .....45°.....  
 Claim.....  
 Section.....  
 Bearing .....105°T.....

Total Depth .....40.0m.....  
 % Recovery .....94%.....  
 Elev. Collar .....2006.7.....  
 Latitude .....13+64S.....  
 Departure .....3+64W.....

Sheet No 1..... of 4.....  
 Logged by James M. Dawson  
 Date Begun Sept. 4/79  
 Date Finished Sept. 6/79  
 Core Stored At BAF WHSE.....

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
0-3.1		Casing						
3.1-5.2	(0.4m)	Grey white to buff and reddish rhyolite breccia with some detrital, sedimentary breccia horizons.						
5.2-6.4	(0.15m)	Primarily grey to buff rhyolite breccia.						
6.4-8.2	(0.45m)	Greyish to buff and reddish, rhyolite breccia; last 0.4m lost - fault gouge - last part of retrieved section is soft and friable.						
8.2-10.4	(0.0m)	From 8.2 to 10.2 primarily grey to light brown rhyolite breccia (reddish matrix) - occasional horizons of brownish flow banded rhyolite; flow banding at 25° to core axis; last 0.2m is thermally altered; 2 thin quartz stringers in this section; from 10.2 to 10.4 light brown to brownish green, chilled margin of andesite or dacite dike; contact @ about 75° to core axis - steeply dipping to the west??						



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PROPERTY Black Dome

HOLE No. DDH-22

SHEET No. 2 of 4

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
10.4-12.1	(0.07m)	Light to dark, blue-grey, porphyritic dacite or andesite feeder? dike; occasional brownish alteration zones; some very fine grained, scattered pyrite cubes.						
12.1-14.3	(0.05m)	Bluish to green-grey, porphyritic dacite or andesite dike; occasional areas are slightly bleached or brownish from local hydro-thermal alteration of a fracture.						
14.3-17.4	(0.10m)	Blue-grey to light green-grey, porphyritic dacite or andesite dike; phenocrysts are subhedral plagioclase? crystals - frequently altered to clays; from 16-16.5 very rusty, altered zone - fault?						
17.4-20.4	(0.0m)	Light, greenish grey, porphyritic andesite or dacite dike rock with frequent limonite - stained sections; where rock is unoxidized there are frequent scattered, tiny, euhedral pyrite cubes; 3 narrow quartz stringers in this area.						
20.4-23.5	(0.05m)	Light greenish, porphyritic andesite dike; several bleached and limonite stained sections; 5 narrow quartz veinlets in section; scattered tiny pyrite cubes in unoxidized zones; pyrite cubes more abundant near some fractures.						



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PROPERTY Black Dome

HOLE No. DDH-22

SHEET No. 4 of 4

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
32.9-33.8	(0.05m)	Pale greenish grey to buff, altered andesite dike; minor local brecciation; cut by about 15. narrow, grey quartz stringers.	#20582	32.9-33.8	(0.9m)	Geochem	1.78	29.0
33.8-34.8	(0.3m)	From 33.8 to 34.2 pale greenish, grey altered andesite like rock; 4 narrow quartz stringers here; from 34.2 to 34.8 highly bleached and friable, whitish andesite; foot wall fault?	#20583	33.8-34.8	(1.0m)	Geochem	0.18	2.6
34.8-35.7	(0.15m)	First 0.1m section is highly broken - bleached and altered andesite; rest of section is buff to pale green-grey andesite dike - porphyritic as usual; 6 narrow quartz veinlets in this section.						
35.7-38.7	(0.0m)	Light greenish grey, porphyritic andesite with some brownish and limonite-stained sections; 11 quartz veinlets in this run!						
38.7-40	(0.0m)	Medium to dark green or bluish grey, porphyritic andesite dike rock; small silicified section from 37.83 to 37.96; in addition to this - 5 narrow quartz stringers in this section.						
		END OF HOLE.						

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PROPERTY ..... Black Dome .....

HOLE No. .... DDH-23 .....

DIP AND AZIMUTH TEST		
Corrected		
Footage	Angle	Azimuth

Core Size ..... BQ .....

Angle of Hole ..... -45° .....

Claim..... .....

Section..... .....

Bearing ..... 105°T .....

Total Depth ..... 46.2m .....

% Recovery ..... 93% .....

Elev. Collar ..... 2062.6 .....

Latitude ..... 3+40S .....

Departure ..... 4+25E .....

Sheet No ..... 1 ..... of ..... 5 .....

Logged by ..... James M. Dawson .....

Date Begun ..... Sept. 3/79 .....

Date Finished ..... Sept. 5/79 .....

Core Stored At ..... BAF WHSE. ....

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
0-3.1		Casing						
3.1-3.8	(0.0m)	Grey green to brownish green, porphyritic andesite.						
3.8-4.9	(0.2m)	Greenish brown, slightly altered, porphyritic andesite; 4 narrow quartz stringers in this section.						
4.9-7.3	(0.05m)	Light green to greenish brown, porphyritic andesite; 8 narrow quartz stringers in this run.						
7.3-10.2	(0.05m)	Grey green to greenish brown, porphyritic andesite; 6 narrow quartz veinlets in this run.						
10.2-13.4	(0.1m)	Primarily grey-green, porphyritic andesite with some local slight alteration to greenish-brown; 2 quartz veinlets in this run.						
13.4-15.85	(0.0m)	Greenish grey to greenish-brown, porphyritic andesite; 8 quartz veinlets in this section.						

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HOLE No. DDH-23

SHEET No. 2 of 5

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE		Au(g/t)	Ag(g/t)	
15.85-19.0	(0.05m)	From 15.85 to 17.75 grey green to brownish green, porphyritic andesite; 11 grey quartz stringers in this section; 17.75-19.0 brownish to light grey, altered andesite; many incipient fractures; 13 quartz veinlets in this section - one is 1.5 cm wide.	#20559	17.75-19	(1.25m)	Geochem	0.69	0.9
19.0-20.7	(0.05m)	From 19.0 to 19.9, light-brown to greyish altered andesite - brecciated in part; 4 narrow quartz stringers in this section - note greyish areas are unoxidized and have scattered very fine grained pyrite; from 19.9 to 20.7 light brown to orange-brown, altered andesite with scattered quartz veins and stockwork in brecciated areas; approximately 10% of rock is vein quartz.	#20560	19-19.9	(0.9m)	Geochem	0.12	1.5
			#20561	19.9-20.7	(0.8m)	Fire Assay	0.137	2.06
20.7-22.6	(0.9m)	From 20.7 to 21.8 orange-brown to buff silicified breccia with much quartz veining and stockwork; about 50% of zone is quartz vein material; last 0.9 m is entirely lost.	#20562	20.7-22.6	(1.9m)	Fire Assay	7.200	24.00
22.6-23.5	(0.1m)	From 22.6 to 23.2 essentially grey-white quartz vein - vuggy in places - with long feathery buff coloured crystals of ? adularia? from 23.2 to 23.5 rusty, altered, orange-brown andesite - silicified in part.	#20563	22.6-23.5	(0.9m)	Fire Assay	2.057	12.34

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HOLE No. DDH-23

SHEET No. 3 of 5

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
23.5-25.0	(0.45m)	Light, orange-brown, altered (and brecciated in part) andesite, cut by numerous quartz stringers and stockwork - estimate 15-20% of rock volume is grey vein quartz. Last 0.45m is completely lost.	#20564	23.5-25	(1.5m)	Fire Assay	1.646	11.65
25-25.6	(0.0m)	Light orange brown, altered and ? silicified andesite, cut by about 15 quartz veinlets.	#20565	25-26	(1.0m)	Fire Assay	0.823	6.17
25.6-27.1	(0.05m)	Light, orange-brown to buff, altered andesite; 25 quartz veinlets in this section.	#20566	26-27	(1.0m)	Fire Assay	0.343	4.11
27.1-28.2	(0.05m)	Similar to last section; 10 narrow quartz veinlets in this run.	#20567	27-28	(1.0m)	Geochem	0.21	1.0
28.2-29.0	(0.2m)	Grey-white to light brown, less altered andesite; 2 quartz veins in this section - both about 1 cm. wide.						
29.0-31.1	(0.3m)	Light, greenish brown, moderately altered andesite; 4 quartz veinlets in this run.	#20568	28-30	(2.0m)	Geochem	0.60	2.6
31.1-32.3	(0.0m)	Similar to last section; 5 quartz veinlets in this section.	#20569	30-32	(2.0m)	Geochem	0.10	0.6
32.3-33.2	(0.15m)	Similar to last section; 4 quartz veinlets in this section.						

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HOLE No. DDH-23

SHEET No. 4 of 5

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
33.2- 34.8	(0.15m)	Similar to last section; 20 quartz veinlets in this section.						
34.8- 36	(0.0m)	From 34.8 to 35.2 similar to last section; two quartz veinlets here. From 35.2 to 36, buff to light brown, altered (and friable in part) andesite - 6 quartz veinlets in section; also some rounded quartz fragments in some of the friable sections.	#20570	32-35	(3.0m)	Geochem	0.52	0.7
36-37.2	(0.0m)	Buff to light greenish-brown, altered andesite, 4 narrow quartz veins in run.						
37.2- 39.5	(0.0m)	Light, greenish-brown to grey-green andesite, becoming fairly fresh at end of section; 2 narrow quartz stringers to run.						
39.5- 40.8	(0.0m)	Green-grey andesite with frequent brownish altered sections; 6 narrow quartz veinlets in this run.						
40.8- 42.1	(0.0m)	From 40.8 to 41, altered buff-grey to brownish andesite; from 41 to 41.5 detrital sedimentary horizon; from 41.5 to 42.1, primarily brownish altered andesite; 11 quartz veinlets in this run.						





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PROPERTY Black Dome

HOLE No. DDH-24

DIP AND AZIMUTH TEST		
Corrected		
Footage	Angle	Azimuth

Core Size BQ  
 Angle of Hole -45°  
 Claim.....  
 Section.....  
 Bearing 105°T.

Total Depth 79.6m  
 % Recovery 93%  
 Elev. Collar 2065.0  
 Latitude 3+31S  
 Departure 3+88E

Sheet No 1 of 8  
 Logged by James M. Dawson  
 Date Begun Sept. 9/79  
 Date Finished Sept. 11/79  
 Core Stored At BAF WHSE.

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
0-6.1		Casing						
6.1-7.6	(0.2m)	Pale greenish-grey andesite; relatively fresh, finely porphyritic with crystals of plagioclase and hornblende; latter altered largely to chlorite; phenocrysts to 3 mm long in fine grained greenish groundmass.						
7.6-9.45	(0.0m)	Similar to last section.						
9.45-10.67	(0.10m)	Dark, green-grey, finely porphyritic andesite; 2 narrow quartz stringers in section.						
10.67-13.1	(0.0m)	Similar to last section.						
13.1-15.55	(0.0m)	Dark, green grey to purplish-brown fairly fresh andesite.						
15.55-17.37	(0.10m)	Dark to medium green grey andesite; 5 narrow quartz stringers in section.						

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PROPERTY Black Dome

HOLE No. DDH-24

SHEET No. 4 of 8

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
45.72-48	16(0.0m)	From 45.72 to 45.8 similar to last part of last section; from 45.8 to 47.1, coarse agglomerate of rounded and oxidized andesite fragments (red-brown to purplish-buff); fragments to +15 cm; porphyritic in light greenish groundmass; from 47.1 to 48.1 dark purplish to reddish-grey, porphyritic andesite; 48.10 to 48.16 similar agglomerate as in center part of section.						
48.16-49	99(0.0m)	From 48.16 to 48.4 - agglomerate as in last section - rounded fragments of pale brownish, porphyritic andesite in light green-grey matrix; from 48.4-49.99, dark, purplish or reddish grey, porphyritic andesite.						
49.99-50	60 (0.0m)	Dark, purplish, grey andesite, becoming bleached to greenish grey at end of section; some minor brecciation or agglomerate horizon at end of section.						
50.60-52	74 (0.0m)	Altered bleached andesite breccia and? agglomerate - pale green-grey to light brown with friable section near start of run; 3 quartz veinlets in section; one about 3 cm. wide at about 52 m.						

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HOLE No. DDH-24

SHEET No. 5 of 8

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
52.74-54	26(0.0m)	Altered, medium to light brown andesite - approximately 11 quartz veinlets between 53 and 53.4m last 0.3m section is darker and less altered.						
54.26-56	40(0.0m)	Light orange-brown, altered but quite competent, porphyritic andesite; 5 thin quartz veinlets - most are in last 0.5m section.						
56.40-59	15(0.1m)	Light brownish to pale brownish grey altered andesite; 5 narrow quartz stringers; frequent limonite staining on fractures.						
59.15-60	97(0.05m)	Primarily greenish brown, moderately altered andesite; 6 thin quartz veinlets.						
60.97-62	50(0.0m)	Greenish grey to light brown, altered andesite; 6 thin quartz veins in section.						
62.50-65	24(0.05m)	Brownish to patchy light blue-grey, fine grained altered andesite; patchy light blue areas are altered but unoxidized with scattered fine grained pyrite cubes; 19 thin quartz veins; last 3 cm. is friable fault gouge --?? hanging wall fault.	#20584	63-65	(2.0m)	Geochem	0.69	1.0

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HOLE No. DDH-24

SHEET No. 6 of 8

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
65.24-65.85(0.0m)		Brownish, altered and fractured andesite; first 20 cm. of section is friable fault gouge; 6 quartz veins - one of which is 3 cm. wide.	#20585	65-66 (1.0m)	Geochem		0.20	1.2
65.85-67.37(0.08m)		From 65.85-66.6 brownish, altered andesite with many incipient cracks; 11 thin quartz veins; 66.6-66.9 siliceous quartz stockwork and breccia - 60% quartz in rock; from 66.9-67.37 brownish altered andesite with several + 3 cm wide quartz veins 15% quartz.	#20586	66-66.5 (0.5m)	Geochem		0.16	4.0
			#20587	66.5-67.5 (1.0m)	Fire Assay		7.890	19.20
67.37-67.68(0.05m)		Essentially orange-brown quartz stockwork and breccia; 40% quartz - much broken core.						
67.68-68.29(0.05m)		Similar to last section; quartz makes up 50% of volume.	#20588	67.5-68.5 (1.0m)	Fire Assay		1.131	22.97
68.29-69.51 (0.05m)		Primarily orange-brown, silicified, altered andesite breccia with quartz veinlets and stockwork; 10-15% quartz last 0.5m is less altered - minor quartz veins.	#20589	68.5-69 (0.5m)	Fire Assay		0.720	4.46
			#20590	69-69.55 (0.55m)	Fire Assay		1.337	4.80
69.51-71.03 (0.35m)		Grey brown to buff, quartz stockwork and breccia; 30-40% grey quartz.	#20591	69.55-71 (1.45m)	Fire Assay		3.770	14.06

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HOLE No. DDH-24

SHEET No. 7 of 8

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
71.03-71.95	(0.15m)	Grey brown to orange-brown, altered andesite with frequent, scattered quartz veinlets; quartz makes up 5-10% of volume.	#20592	71-72	(1.0m)	Fire Assay	0.480	5.49
71.95-72.86	(0.20m)	Light orange-brown, altered andesite with scattered quartz veinlets, breccia and stockwork; quartz makes up 15% of volume.	#20593	72-73	(1.0m)	Fire Assay	0.240	3.09
72.86-73.47	(0.03m)	Light orange-brown andesite with scattered quartz veinlets; quartz makes up 3% of volume of section.	#20594	73-74	(1.0m)	Fire Assay	0.171	1.71
73.47-74.69	(0.0m)	Light grey-buff to orange-brown altered andesite with 17 thin quartz veinlets.						
74.69-76.21	(0.45m)	Light buff to brownish, altered andesite becoming more altered and clay-like at end of section; probably most of core lost in here.	#20595	74-75	(1.0m)	Geochem	1.11	1.4
76.21-77.7	(0.7m)	Primarily light brownish, sandy, friable material; fault gouge - ? foot wall fault?	#20596	75-77	(2.0m)	Geochem	0.08	0.5
77.7-78.7	(0.1m)	First 0.3m is sandy, light brown, friable material as last section; 78-78.7 buff to light brown, altered andesite.						





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PROPERTY ..... Black Dome .....

HOLE No. DDH-25 .....

DIP AND AZIMUTH TEST		
Corrected		
Footage	Angle	Azimuth

Core Size ..... BQ .....

Angle of Hole ..... -45° .....

Claim..... .....

Section..... .....

Bearing ..... 105°T. ....

Total Depth ..... 60.0m .....

% Recovery ..... 95% .....

Elev. Collar ..... 1997.2 .....

Latitude ..... 13+93S .....

Departure ..... 3+97W .....

Sheet No ..... 1 ..... of ..... 6 .....

Logged by ..... James M. Dawson .....

Date Begun ..... Sept. 11/79 .....

Date Finished ..... Sept. 14/79 .....

Core Stored At BAF WHSE. ....

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE		Au(g/t)	Ag(g/t)
0.-3.3		Casing					
3.3-5.2	(0.15m)	Primarily pale, greenish white, altered andesite dike.					
5.2-7.6	(0.1m)	Pale greenish white to limonite stained andesite dike rock.					
7.6-10.7	(0.0m)	Greyish buff to limonite stained, altered sometimes porphyritic, andesite dike; frequent disseminated pyrite; 3 quartz veinlets					
10.7-11.3	(0.0m)	Pale grey-white to buff, altered felsic?? dike rock or rhyolite flow?? last 2 cm is silicified breccia with some grey quartz - also some scattered, finely divided pyrite.	#20597	10.7-11.25 (0.55m)	Geochem	0.02	0.6
			#20598	11.25-12 (0.75m)	Geochem	0.18	1.2
11.3-14.3	(0.4m)	Primarily silicified rhyolite breccia; buff to orange - brown fragments lying in matrix of grey quartz, first 1.0 meter section only	#20599	12-13 (1.0m)	Fire A	0.343	4.46
		slightly silicified; from 11.9 to 12.2 friable,	#20600	13-14 (1.0m)	Fire Assay	0.326	14.40

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PROPERTY Black Dome

HOLE No. DDH-25

SHEET No. 2 of 6

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
		altered gouge materia; true "vein" or stockwork section begins at about 12.2.						
14.3-16.2	(0.1m)	From 14.3 - 14.9 typical, altered, silicified rhyolite breccia with quartz veins - about 80% grey quartz; from 14.9-16.2 buff to light orange-brown flow banded rhyolite - brecciated in part and cut by few, grey quartz veinlets - 5-10% grey quartz in section.	#205601	14-15	(1.0m)	Fire Assay	2.263	108.00
			#20602	15-16	(1.0m)	Fire Assay	0.206	9.26
16.2-19.2	(0.2m)	Pale buff to grey brecciated, flow banded rhyolite; frequently cut by grey quartz veins and stockwork; 10-15% quartz.	#20603	16-17	(1.0m)	Fire Assay	0.189	3.77
			#20604	17-18	(1.0m)	Fire A.	0.137	2.40
			#20605	18-19	(1.0m)	Fire Assay	0.103	2.06
19.2-20.4	(0.1m)	Similar to last section; 5-10% quartz veinlets and stockwork.	#20607	19-20	(1.0m)	Geochem	0.19	1.0
20.4-22	(0.15m)	Grey-white to orange-brown and buff, flow banded rhyolite; brecciated in part; scattered quartz veinlets and stockwork; 5-10% grey quartz.	#20606	20-22	(2.0m)	Geochem	0.07	0.7
22-23.5	(0.0m)	Similar to last section; 15-30% grey quartz as breccia cement and stockwork.						

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HOLE No. DDH-25

SHEET No. 3 of 6

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
23.5-24	4 (0.08m)	Pale buff to orange-brown, silicified rhyolite with scattered quartz veins and stockwork; 10-15% grey quartz.	#20608	22-24	(2.0m)	Geochem	0.11	0.7
24.4-24	8 (0.0m)	Similar to last section; 10% quartz.	#20609	24-25.1	(1.1m)	Geochem	0.05	0.4
24.8-26	5 (0.0m)	From 24.8 to 25.1 altered rhyolite breccia - white to buff fragments in matrix of grey quartz; 20 to 25% grey quartz; 25.1 to 26.5 primarily creamy white, altered, porphyritic andesite dike - becoming greenish and less altered in last 20 cm. section; scattered fine grained pyrite as cubes and one segretation - 5 mm thick.						
26.5-29	6 (0.0m)	From 26.5-26.85 light greenish, porphyritic andesite dike - phenocrysts of hornblende gone to chlorite (up to 3-4 mm long). From 26.85-28.4 pale grey to buff, altered andesite dike rock with scattered grey quartz stringers; 28.4-29.6 similar altered and bleached dike rock with some quartz stockwork and few brecciated areas cemented by grey quartz.	#20610	28.45-29.5	(1.05m)	Geochem	6.90	4.2
29.6-32	6 (0.1m)	From 29.6-30.15 grey to buff altered andesite - brecciated in part with frequent quartz stringers and stockwork - scattered, fine grained, pyrite	#20611	29.5-30.5	(1.0m)	Geochem	0.38	0.8



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HOLE No. DDH-25

SHEET No. 5 of 6

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag)g/t)
		dike with matrix heavily silicified and pyritic; from 36 to 38.7 primarily greenish, porphyritic and- esite dike with some brecciated sections - frequent disseminated pyrite grains in matrix of such brecciated zones; one bleached, brecciated zone from 37.8 to 38.						
38.7-40.5	(0.0m)	From 38.7 to 39.5 - pale greenish grey, porphyritic andesite; 39.5 to 40.5 gray to buff and limonite stained, bleached and altered, andesite dike about 5 thin quartz stringers.						
40.5-43.6	(0.1m)	From 40.5 to 41.8 pale green gray, porphyritic andesite dike rock; from 41.8 to 42.65 bleached altered, andesite dike with some scattered pyrite cubes and narrow area of quartz stringers (7-8 over a 20 cm. width) from 42.3 to 42.5; from 42.65 to 43.6 green gray to pale buff green, moderately altered, andesite dike rock.						
43.6-44.8	(0.1m)	Green grey to brownish buff moderately altered andesite, dike rock; phenocrysts of hornblende becoming coarser and some rounded quartz grains up to 3 mm across.						
44.8-47.9	(0.0m)	Greenish brown to buff andesite porphyry - ?? feeder plug? coarser as last run with altered						



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PROPERTY Black Dome

HOLE No. DDH-26

DIP AND AZIMUTH TEST		
Corrected		
Footage	Angle	Azimuth

Core Size BQ  
 Angle of Hole -70°  
 Claim.....  
 Section.....  
 Bearing 105°T.

Total Depth 109.7 m  
 % Recovery 91%  
 Elev. Collar 2065.1  
 Latitude 3+31S  
 Departure 3+88E

Sheet No 1 of 8  
 Logged by James M. Dawson  
 Date Begun Sept. 11/79  
 Date Finished Sept. 15/79  
 Core Stored At BAF WHSE.

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
0-3.1		Casing						
3.1-4.57	(0.30m)	Greenish grey, medium grained andesite with clots of ? more basic or chloritic material up to 1 cm. across.						
4.57-7.62	(0.0m)	Greenish grey, relatively fresh, semi-porphyritic andesite.						
7.62-10.7	(0.0m)	Dark, greenish-grey andesite; minor calcite veining.						
10.7-13.7	(0.0m)	Dark green-grey porphyritic andesite, minor calcite veining.						
13.7-16.9	(0.05m)	Similar to last section; one grey quartz stringer approximately 3 cm. wide.						
16.9-19.5	(0.05m)	Dark, purplish grey, porphyritic andesite; minor calcite veining						
19.5-20.7	(0.0m)	Similar to last section.						

**7512**

**1 of 2**

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PROPERTY Black Dome

HOLE No. DDH-26

SHEET No. 2 of 8

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
20.7-23.17	(0.05m)	Light, greenish grey, porphyritic andesite; occasional accidental fragments of coarser but similar material; last 0.5 m looks like it could be a tuff.						
23.17-26.21	(0.0m)	Light, greyish-green, porphyritic andesite - looks tuffaceous in part - occasional accidental fragments of purplish grey andesite; also small clots of basic or ? chloritic material.						
26.21-28.04	(0.0m)	Similar to last section; no accidental fragments.						
28.04-29.2	(0.05m)	Similar to last section; 2 narrow bands of volcanoclastic material, green fragments of andesite in a matrix of purplish-red fine grained, mud or silt.						
29.2-32.01	(0.0m)	Greenish-grey, porphyritic andesite; autobrecciated or agglomeratic in part.						
32.01-32.6	(0.05m)	Greenish grey porphyritic andesite; tuffaceous in part?? seems to be becoming more siliceous - ? dacite? Possible contact at approximately 31.5 m.						
32.6-33.84	(0.0m)	Greyish-brown to reddish brown porphyritic dacite?						



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HOLE No. DDH-26

SHEET No. 3 of 8

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
33.84-35.36	(0.0m)	Greyish-brown, porphyritic dacite with some flow banding near end of section at approximately 50° to core axis.						
35.36-36.9	(0.1m)	Greyish-brown to purplish grey, porphyritic dacite - some vague flow banding.						
36.9-38.1	(0.05m)	Purplish grey to reddish brown, porphyritic dacite becoming agglomeratic in last 0.4m section.						
38.1-40.23	(0.0m)	Dacite breccia or agglomerate - large brownish-red fragments of porphyritic dacite in very fine grained, greenish, chloritic ash.						
40.23-42.06	(0.0m)	Purplish grey to reddish brown dacite or andesite tuff; ghost-like fragments to 1 cm. size.						
42.06-44.5	(0.4m)	Red-brown to purplish grey autobreccia or agglomerate of porphyritic dacite.						
44.5-46.94	(0.0m)	Similar to last section.						
46.94-47.5	(0.0m)	Similar to last section.						
47.5-49.9	(0.0m)	Similar to last section.						

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HOLE No. DDH-26

SHEET No. 4 of 8

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
49.9-51.21	(0.0m)	Similar to last section.						
51.21-53.04	(0.0m)	From 51.2 to 51.5 - bleached and friable material; 51.5 to 53.04 purplish grey dacitic tuff?						
53.04-54.5	(0.0m)	Dark greenish grey, porphyritic dacite.						
54.5-56.1	(0.2m)	Primarily dark green-grey porphyritic dacite; some hydrothermal bleaching to light green grey.						
56.1-57.31	(0.05m)	Similar to last section; last 0.2m is light, green-grey porphyritic andesite.						
57.31-59.45	(0.25m)	Primarily light green-grey porphyritic andesite; first 0.7m section contains bleached and friable material --? fault zone?						
59.45-60.67	(0.0m)	Primarily light greenish-grey, porphyritic andesite; some suggestion of flow banding at 35° to core axis.						
60.67-61.58	(0.0m)	Similar to last section; no flow banding.						
61.58-62.50	(0.0m)	Similar to last section; minor brecciation.						
62.50-65.85	(0.0m)	Similar to last section.						

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HOLE No. DDH-26

SHEET No. 5 of 8

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
65.85-67.68	(0.0m)	Similar to last section.						
67.68-71.64	(2.5m)	Similar to last section N.B. No evidence for so much lost core - must be a skrew up in counting??						
71.64-74.08	(0.0m)	Green-grey porphyritic andesite; from 72.15 to 73.35 a zone of fracturing cemented by quartz - dark greenish grey, chloritic, siliceous material cements brecciated section.						
74.08-76.21	(0.0m)	Green-grey, porphyritic andesite, becoming altered to brownish, limonite sections in last 0.7m; 10 quartz veinlets in this section.						
			#20627	75.5-77.5	(2.0m)	Geochem	0.03	0.8
76.21-78.04	(0.0m)	Limonitic brown to light blue-grey, altered andesite - brecciated in a few places and loosely cemented by vuggy quartz; approximately 17 quartz stringers in section.						
			#20628	77.5-79.5	(2.0m)	Geochem	0.06	0.7
78.04-81.09	(0.05m)	Similar to last section; blue-grey sections are pyritic but unoxidized; 15 quartz stringers in section.						
			#20629	79.5-81.5	(2.0m)	Geochem	0.11	0.9
81.09-82.92	(0.0m)	Similar to last section; 22 quartz stringers in section.						
			#20630	81.5-83.5	(2.0m)	Geochem	0.17	1.5

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HOLE No. DDH-26

SHEET No. 6 of 8

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE		Au(g/t)	Ag(g/t)
82.92-84.45	0.4m	Similar to last section; 15 quartz stringers in section; some areas are ?? partly silicified.					
84.45-85.67	1.0m	N.B. tube did not lock! - what was recovered is rusty-brown, altered andesite.	#20631	83.5-85.7 (2.2m)	Geochem	0.34	1.9
85.67-87.20	0.05m	Light brownish, clay-like, altered andesite - 2 quartz stringers.					
87.20-90.24	0.0m	Light brownish, altered andesite; few remnant areas of blue-grey, pyrite-bearing, unoxidized andesite. 10 quartz stringers in section; 3 are from 1-2 cm. wide.					
90.24-92.99	0.0m	Similar to last section; 19 quartz veinlets; pyrite common in a couple of small, unoxidized sections.	#20632	88.95-91 (2.05m)	Geochem	0.22	1.4
			#20633	91-92.5 (1.5m)	Geochem	0.18	1.3
			#20634	92.5-93.8 (1.3m)	Geochem	0.99	4.1
92.99-96.04	0.45m	From 92.99 to 93.75 blue grey to brownish (oxidized and unoxidized) andesite breccia; frequent fine grained disseminated pyrite; 7 quartz stringers - one about 2 cm wide;	#20635	93.8-94.37 (0.57m)	Fire Assay	2.503	4.11
		93.75-94.35 altered, orange-brown breccia cemented by quartz-quartz makes up 50% of volume.					
		From 94.35 - end, blue grey to light buff silicified					

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HOLE No. DDH-26

SHEET No. 7 of 8

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
		and slightly pyritic andesite breccia with scattered quartz veinlets - approximately 12-15 quartz veinlets + considerable silica as matrix material.	#20636	94.37-96.04(1.67m)	Fire Assay		1.269	3.77
96.04-100.0(0.0m)		Primarily blue grey silicified and pyritic andesite tuff at least 30 vuggy quartz stringers and additional quartz cementing some breccia sections.	#20637	96.04-98 (1.96m)	Geochem		1.20	1.9
99.09-101.52(0.0m)		Blue grey, slightly pyritic andesite and andesite breccia; silicified in part; some volcanic wacke sections towards end of section. 10 quartz veinlets in section.	#20638	98-100 (2.0m)	Geochem		0.60	1.6
			#20639	100-102 (2.0m)	Geochem		0.81	1.0
101.52-103.35(0.2m)		Primarily unsorted volcanic wacke with some brownish andesitic ?? bombs included; some sections silicified - 5-6 quartz veinlets.						
103.35-105.48(0.2m)		Coarse, poorly sorted, volcanic wacke or breccia with several large bombs; first 0.5m is possibly silicified in part; 4 quartz stringers in section.						
105.48-107.61(0.3m)		Similar to last section.						



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PROPERTY..... Black Dome.....

HOLE No. .... DDH-27.....

DIP AND AZIMUTH TEST		
Corrected		
Footage	Angle	Azimuth

Core Size ..... BQ.....  
 Angle of Hole ..... -45°.....  
 Claim.....  
 Section.....  
 Bearing ..... 105°T.....

Total Depth ..... 21.0m.....  
 % Recovery ..... 64%.....  
 Elev. Collar ..... GR 2034.7.....  
 Latitude ..... 4+26S.....  
 Departure ..... 3+81E.....

Sheet No ..... 1..... of ..... 2.....  
 Logged by ..... James M. Dawson.....  
 Date Begun ..... Sept. 16/79.....  
 Date Finished ..... Sept. 16/79.....  
 Core Stored At ..... BAF WHSE.....

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE		Au(g/t)	Ag(g/t)
0-10.67		Casing					
10.67-13.72		Practically no core recovered - one piece of quartz vein stockwork.					
13.72-15.24		Very little core recovered but mostly altered	#20640	13.72-			
	(1.1m)	brownish andesite with quartz stockwork; approximately 50% quartz.		15.24	(1.52m)	Fire Assay	1.200 2.06
15.24-16.16		Mostly orange-brown, altered andesite with scattered quartz veinlets and stockwork; approx. 10% quartz.	#20641	15.24-	(0.92m)	Fire Assay	0.309 5.83
	(0.4m)			16.16			
16.16-16.76		Similar to last section; approximately 20-25% quartz.	#20642	16.16-	(0.6m)	Fire Assay	0.137 3.43
	(0.2m)			16.76			
16.76-17.67		Similar to last section.	#20643	16.76-	(0.91m)	Fire Assay	0.326 4.46
	(0.4m)			17.67			
17.67-19.81		Brownish to buff altered andesite	#20644	17.67-	(2.14m)	Fire Assay	0.617 4.46
	(1.3m)	scattered quartz stringers; approximately 5% of section is quartz.		19.81			







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PROPERTY Black Dome

HOLE No. DDH-28

SHEET No. 2 of 3

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE		Au(g/t)	Ag(g/t)
15.24-17.06		Primarily light brown to orange-brown at end					
	(0.7m)	of section - altered andesite with a few scattered quartz stringers.	#20646	15.24-17.06 (1.72m)	Geochem	0.18	0.8
17.06-18.29		Similar to last section - possibly 10% quartz.	#20647	17.06-18.29 (1.13m)	Fire	1.200	2.06
	(0.5m)				Assay		
18.29-18.90		Very poor recovery - similar to last section.	#20648	18.29-18.90 (0.61m)	Fire	1.543	3.09
	(0.45m)				Assay		
18.90-19.81		Very poor recovery; altered andesite and fragments of vein quartz.	#20649	18.90-19.81 (0.91m)	Fire	0.549	3.77
	(0.7m)				Assay		
19.81-20.21		Light green grey to brownish andesite; very minor quartz veining.	#20650	19.81-20.73 (0.92m)	Geochem	0.42	0.7
	(0.25m)						
20.21-20.73		Light to medium brown, partly altered andesite; no quartz veinlets.					
	(0.0m)						
20.73-23.17		Very poor recovery; primarily light brown to orange-brown altered andesite with quartz stockwork; approximately 40% quartz.	#20651	20.73-23.17 (2.44m)	Fire	5.314	8.23
	(1.9m)				Assay		



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PROPERTY ..... Black Dome .....

HOLE No. DDH-29 .....

DIP AND AZIMUTH TEST		
Corrected		
Footage	Angle	Azimuth

Core Size ..... BQ .....

Angle of Hole ..... -45° .....

Claim..... .....

Section..... .....

Bearing ..... 105° .....

Total Depth ..... 67.1 m .....

% Recovery ..... 86% .....

Elev. Collar ..... 2039.2 .....

Latitude ..... 4 + 16S .....

Departure ..... 3 + 41E .....

Sheet No. 1 ..... of 6 .....

Logged by James M. Dawson .....

Date Begun Sept. 18/79 .....

Date Finished Sept. 20/79 .....

Core Stored At BAF WHSE. ....

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
0-4.5		Casing						
4.5-6.1	(0.7m)	Primarily light green-gray, slightly altered, porphyritic andesite.						
6.1-8.54	(0.0m)	Medium to dark green-gray, porphyritic andesite, some minor zones with alteration to light brown.						
8.54-9.14	(0.0m)	Similar to last section.						
9.14 - 10.67	(0.0m)	Pale, green-gray, porphyritic andesite, minor calcite veining.						
10.67 - 12.80	(0.1m)	Green-gray, fresh porphyritic andesite.						
12.80 - 15.85	(0.0m)	Similar to last section; minor calcite veining.						
15.85 - 16.46	(0.1m)	Similar to last section.						

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Site 1 210 Victoria St.  
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PROPERTY Black Dome

HOLE No. DDH-29

SHEET No. 2 of 6

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
16.46 -	(0.0m)	Similar to last section.						
17.98								
17.98 -	(0.1m)	Similar to last section.						
19.51								
19.51 -	(0.0m)	Similar to last section; minor calcite						
22.5		veining.						
22.5 -	(0.0m)	Similar to last section.						
24.38								
24.38 -	(0.15m)	Similar to last section.						
27.12								
27.12 -	(0.0m)	Similar to last section.						
28.65								
28.65 -	(0.0m)	Similar to last section; minor calcite veining.						
31.70								
31.70 -	(0.0m)	Green-gray, fresh, porphyritic andesite;						
34.14		hematite on fractures and as scattered clots in						
		matrix.						
34.14 -	(0.0m)	Green-gray to purplish gray, fresh andesite -						
37.19		minor hematite on fractures and as small stringers						



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Site 1 219 Victoria St.  
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PROPERTY Black Dome HOLE No. DDH-29 SHEET No. 4 of 6

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
48.47 -	(0.5m)	Primarily light, orange-brown altered						
49.99		andesite with scattered quartz stringers, estimate 5% quartz.	#20656	48.47 - (1.52m) 49.99	Geochem		0.05	0.6
49.99 -	(0.4m)	Similar to last section; poor recovery.	#20657	49.99 - (0.92m)	Geochem		1.10	0.9
50.91				50.91				
50.91 -	(0.5m)	Very poor recovery; similar, brownish altered						
51.52		andesite - very minor quartz.	#20658	50.91 - (0.61m) 51.52	Geochem		0.23	0.7
51.52 -	(0.35m)	Similar brownish altered andesite; very minor	#20659	51.52 - (0.91m)	Geochem		0.50	1.0
52.43		quartz veining.		52.43				
52.43 -	(0.25m)	Similar to last section; no quartz seen.	#20660	52.43 - (0.61m)	Geochem		0.71	0.9
53.04				53.04				
53.04 -	(1.05m)	Very poor recovery; light brownish, altered	#20661	53.04 - (1.53m)	Geochem		0.26	0.9
54.57		andesite with scattered quartz veining; estimate 5% quartz.		54.57				
54.57 -	(0.13m)	Light, orange-brown, altered andesite with	#20662	54.57 - (0.29m)	Fire		0.240	3.43
54.86		appreciable quartz; estimate 70% quartz vein material.		54.86	Assay			
54.86 -	(0.4m)	Poor recovery; primarily orange-brown, altered	#20663	54.86 - (0.62m)	Fire		0.686	7.20
55.48		andesite breccia; cemented by quartz; estimate 60% quartz.		55.48	Assay			

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Sheet 1 210, Victoria St.  
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PROPERTY Black Dome HOLE No. DDH-29 SHEET No. 5 of 6

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
55.48 - 56.40	(0.8m)	Very poor recovery; mostly white vein quartz with minor orange - brown, altered andesite as included fragments.	#20664	55.48 - 56.40	(0.92m)	Fire Assay	0.274	2.74
56.40 - 56.7	(0.1m)	Poor recovery; mostly orange-brown, altered, andesite breccia - cemented by white quartz - about 50% quartz.	#20665	56.40 - 56.70	(0.30m)	Fire Assay	0.651	5.83
56.7 - 58.54	(0.65m)	Very poor recovery; altered brown to buff andesite with quartz veinlets and stockwork - estimate 20-30% quartz.	#20666	56.70 - 58.54	(1.84m)	Fire Assay	0.651	6.17
58.54 - 59.15	(0.1m)	Primarily orange-brown to buff, altered andesite cut by quartz veinlets and stockwork; estimate 15% quartz.	#20667	58.54 - 59.15	(0.61m)	Fire Assay	0.463	4.11
59.15 - 59.45	(0.2m)	Very poor recovery; similar to last section; 25 - 30% quartz.	#20668	59.15 - 59.45	(0.30m)	Fire Assay	0.514	4.80
59.45 - 60.4	(0.45m)	Poor recovery; orange-brown to gray-buff, altered andesite breccia cemented by gray and white quartz; estimate 30% quartz.	#20669	59.45 - 60.4	(0.95m)	Fire Assay	0.137	2.40
60.4 - 60.67	(0.0m)	Light brown to buff, altered andesite cut by quartz veins and stockwork; estimate 10 - 15% quartz.	#20670	60.4 - 60.67	(0.27m)	Fire Assay	0.120	1.03



# KERR-DAWSON & ASSOCIATES LTD. - DIAMOND DRILL RECORD

Sheet 1 of 1  
 212 Victoria St.  
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PROPERTY Black Dome

HOLE No. DDH - 29

SHEET No. 6 of 6

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
60.67 -	(0.05m)	Gray to light brown and buff, silicified breccia						
61.89		or volcanic wacke; no quartz stringers but suspect matrix is siliceous; last 0.35m is friable, altered, bleached gouge - ?fault?	#20671	60.67 - 61.89	(1.22m)	Geochem	0.10	0.7
61.89 -	(0.05m)	From 61.89 - 62.2 friable, altered bleached gouge;						
62.50		from 62.2 to 62.5 light brown to gray, silicified breccia or wacke; estimate 5 - 10%.	#20672	61.89 - 62.50	(0.61m)	Geochem	3.15	>100.0
62.50 -	(0.13m)	Buff to pale blue-gray, silicified rhyolite or dacite?; brecciated in part; minor, very fine grained pyrite; some quartz veining - estimate 5% quartz in section.	#20673	62.50 - 63.10	(0.6m)	Geochem	0.53	8.2
63.1 -	(0.0m)	From 63.1 to 64 light to dark blue gray, silicified andesite or dacite breccia; very fine grained pyrite common; some hematite in matrix; scattered quartz veining; from 64 to 64.9 dark, blue-gray porphyritic dacite - phenocrysts are subhedral plagioclase up to 3 mm. long in matrix of very fine grained hard dense, blue-gray material; 4 narrow quartz veins in section.	#20674	63.10 - 64.15	(1.05m)	Geochem	0.32	2.0
64.9 -	(0.1m)	Blue-gray to light brownish, dense, porphyritic dacite; some suggestion of flow banding.						
67.1								
		END OF HOLE.						

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PROPERTY Black Dome

HOLE No. DDH-30

DIP AND AZIMUTH TEST		
Corrected		
Footage	Angle	Azimuth

Core Size BQ  
 Angle of Hole -45°  
 Claim.....  
 Section.....  
 Bearing 105°T.

Total Depth 29.0m  
 % Recovery 87%  
 Elev. Collar 2010.6  
 Latitude 14+02S  
 Departure 3+61W

Sheet No 1 of 3  
 Logged by James M. Dawson  
 Date Begun Sept. 15/79  
 Date Finished Sept. 16/79  
 Core Stored At BAF WHSE.

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
0-1.2		Casing						
1.2-3.4	(1.1m)	Greenish grey, porphyritic andesite or dacite; one 15 mm. vuggy, quartz vein @ 2.25 m, core very broken - possibly 3-4 other narrow quartz stringers.						
3.4-5.2	(0.05m)	Greenish grey to pale buff, altered andesite dike rock with scattered quartz stringers; several of 1-2 cm thickness; approx. 20 quartz veinlets in section.	#20616	3.4-5.2	(1.8m)	Geochem	0.58	0.7
5.2-6.4	(0.15m)	Grey to buff, altered, bleached, porphyritic andesite dike; few minor quartz stringers and one 2 cm. wide quartz veinlet which runs roughly down the core axis.	#20617	5.2-6.4	(1.2m)	Geochem	0.08	0.8
6.4-8.2	(0.0m)	Grey to buff-white, altered, bleached, porphyritic, andesite dike; 20 to 25 grey quartz, stringers - several 1 cm. and greater in width; some running almost down core axis.	#20618	6.4-8.2	(1.8m)	Geochem	0.11	0.6

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PROPERTY Black Dome HOLE No. DDH-30 SHEET No. 2 of 3

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
8.2-9.4	(0.0m)	Greenish grey to buff-white, porphyritic andesite with at least 7-8 quartz stringers - several 1 cm. and greater in width; 1 or 2 run practically down core axis.						
9.4-10.4	(0.35m)	Pale greenish grey to brownish, altered porphyritic andesite with few scattered quartz stringers; friable zone with core loss at approx. 10 m; contact with rhyolite @ 10.3 m.	#20619	8.2-10.3	(2.1m)	Geochem	0.10	0.4
10.4-11.3	(0.0m)	Primarily buff to orange-brown brecciated rhyolite with quartz stockwork; quartz makes up about 30% of volume.	#20620	10.3-11.3	(1.0m)	Fire Assay	0.103	2.74
11.3-13.1	(0.25m)	Primarily brecciated, flow banded rhyolite with grey quartz stockwork and matrix; quartz makes up 20-40% of section.	#20621	11.3-11.9	(0.6m)	Fire A	0.070	1.37
			#20622	11.9-12.4	(0.5m)	Fire A	0.137	2.06
			#20623	12.4-13.1	(0.7m)	Fire A	0.137	1.03
13.1-13.7	(0.5m)	Large core loss, similar to last section.	#20624	13.1-13.9	(0.8m)	Fire Assay	0.223	16.45
13.7-15.2	(0.0m)	From 13.7-14 volcaniclastic sediments with quartz stockwork. About 40% quartz. 14-15.2 greenish grey tuff and volcaniclastic sediments; poorly sorted; most material less than 6 mm; occasional large fragments to 8 cm, 9 vuggy quartz veins in section.	#20625	13.9-15.2	(1.3m)	Geochem	0.83	2.4

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HOLE No. DDH-30

SHEET No. 3 of 3

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
15.2-16.5	(0.9m)	Greenish - grey, volcanoclastic sediments; the last 0.1m section is bleached and friable; fault zone!! complete core loss in last 0.9m section.						
16.5-19.5	(0.0m)	Coarse, volcanoclastic breccia with the usual fine grained (.1mm) subangular fragments and frequent large, rounded buff to orange-brown rhyolite fragments - up to 3-4 cm across.						
19.5-22.6	(0.1m)	Volcanoclastic breccia and tuff; seems like partly sedimentary and partly some airfall material; green-grey sediments and matrix with 10-20% buff to orange-brown, rounded, rhyolite fragments - average 1 cm. in size.						
22.6-25.7	(0.0m)	Pale greenish grey, volcanic wacke as last section.						
25.7-28.5	(0.2m)	From 25.7 to 26.6 grey to orange-buff volcanoclastic sediments; 26.6 to 28.5 similar volcanoclastic breccia - coarser and frequently cemented by greyish mudstone.	#20626	27-29	(2.0m)	Geochem	0.01	0.3
28.5-29	(0.0m)	Coarse, volcanoclastic breccia cemented by fine grained greyish silt; may be siliceous?? END OF HOLE.						



PROPERTY Black Dome

HOLE No. DDH-31

SHEET No. 2 of 17

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
14.3 - 17.4	(0.0m)	Gray-white to orange-brown, frequently auto-brecciated, flow-banded, ignimbrite; minor small, vuggy cavities.						
17.4 - 19.0	(0.1m)	Similar to last section.						
19.0 - 20.4	(0.13m)	Gray white to buff and reddish irregularly flow banded rhyolite or ash flow; small vugs and pisolites commonly developed; fine grained, disseminated pyrite common in unoxidized sections.						
20.4 - 23.5	(0.25m)	Similar to last section; some limonitic and slightly friable sections; scattered irregular vugs.						
23.5 - 24.8	(0.0m)	Orange brown to white rhyolite with reddish spots; irregularly flow banded - secondary blobs of silica and small cavities common.						
24.8 - 26.5	(0.05m)	Multicoloured, irregularly flow banded, pisolitic rhyolite or ignimbrite; small quartz-lined vugs common.						
26.5 - 29.6	(0.15m)	Similar to last section; some flow banding at about 55° to core axis.						

PROPERTY Black Dome HOLE No. DDH-31 SHEET No. 3 of 17

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
29.6 - 32.6	(0.05m)	Pisolitic rhyolite - some remnant, subtle flow bands but predominant feature is numerous secondary pisolites to 2 cm. wide; scattered small vuggy cavities.						
32.6 - 35.7	(0.2m)	Similar to last section; some areas are softer and claylike; gray to reddish unoxidized areas contain minor, fine grained, disseminated pyrite; scattered cavities with euhedral quartz crystals.						
35.7 - 36.9	(0.0m)	Light, multicoloured, pisolitic rhyolite, some gray and purple quartz (amethyst) as small pisolites - some with cavities and euhedral quartz crystals.						
36.9 - 38.7	(0.1m)	Similar to last section; some areas of softer ashy-looking pale green-gray material.						
38.7 - 39.9	(0.0m)	Multicoloured, fine grained, rhyolite tuff or breccia with some minor development of secondary pisolitic or botryoidal growths.						
39.9 - 41.6	(0.05m)	Fine grained, greenish-gray, rhyolitic tuff? or autobrecciated ignimbrite; some suggestion of flow banding at about 45° to core axis.						
41.6 - 42.7	(0.3m)	Similar to last section; some of breccia texture partly masked by development of						

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PROPERTY Black DomeHOLE No. DDH-31SHEET No. 4 of 17

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
		secondary botrioidal or pisolitic growths.						
42.7 -	(0.05m)	Green-gray, rhyolitic breccia or agglomerate; fragments up to 6 cm, 3 narrow gray quartz veinlets.						
44.8 -	(0.1m)	Flow banded rhyolite breccia; similar to last						
47.3		section except for some areas of flow banding surrounding breccia fragments; some minor accidental basalt?? fragments.						
47.3 -	(0.0m)	Similar to last section.						
47.9								
47.9 -	(0.35m)	Light blue-gray to brown, multi-coloured, rhyolite breccia or agglomerate in matrix of ignimbrite, 6-7 gray quartz veinlets.						
50.9 -	(0.05m)	Similar to last section; flow banding more common;						
54		3 quartz veinlets in section.						
54-57	(0.15m)	Light green-gray to buff, flow-banded, ignimbrite with abundant agglomerate fragments; some earthy, weathered out cavities.						
57-60.1	(0.0m)	Similar to last section but more aptly called agglomerate; flow banding not so much in evidence; last 1.3 m section is mostly unoxidized with						



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SHEET No. 5 of 17

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
		scattered, fine-grained pyrite common; scattered small cavities.						
60.1 - 63.1	(0.0m)	Pale, blue gray to buff (and mottled orange brown where oxidized) rhyolite agglomerate - some fragments partly resorbed into matrix; minor scattered fine grained pyrite in unoxidized areas.						
63.1 - 66.2	(0.0m)	Multi-coloured, rhyolite agglomerate as before - mostly oxidized with scattered limonite staining and clay-like appearance.						
66.2 - 69.2	(0.0m)	Similar to last section.						
69.2 - 72.3	(0.0m)	Pale greenish-brown to pale blue-gray porphyritic rhyolite with some irregular flow banding and some accidental breccia fragments - partly remelted and resorbed.						
72.3 - 75.3	(0.0m)	From 72.3 to 72.5 similar to last section; from 72.5 to end volcanoclastic sediments - light to medium gray and brownish, polymictic volcanic wacke; usually fragments less than 1cm. but occasionally larger sub-rounded fragments to 6 cm. in diameter; minor scattered pyrite cubes in grayish unoxidized sections.						

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SHEET No. 6 of 17

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
75.3 -	(0.0m)	Similar grayish, polymictic, volcanoclastic						
76.6		sediments; some crude grading and sorting in places.						
76.6 -	(0.1m)	Similar to last section; some thin layers of						
78.4		well bedded material; bedding at 30° to core axis						
78.4 -	(0.0m)	From 78.4 to 80.1 similar to last section; one very						
81.4		large fragment of amygdaloidal basalt is 25 cm. in diameter; from 80.1 to 81.4 buff to pale gray, rhyolite tuff and breccia or agglomerate; looks like mixing of detrital material with hot flow or ash material.						
81.4 -	(0.0m)	Light buff to gray rhyolitic tuff or agglomerate						
84.5		with common, rounded and embayed, accidental fragments of andesite and basalt.						
84.5 -	(0.0m)	From 84.5 to 85.9 similar rhyolite tuff and						
87.5		agglomerate without accidental fragments - light greenish gray with subtle, flow banding around predominantly rounded and elliptical fragments which are all white to light greenish buff in colour and usually 1 cm. or less in size; occasionally larger, more angular fragments and scattered darker accidental fragments; from 85.9 to 87.5 dark, purplish gray and brown volcanoclastic sediments; some narrow, well sorted bands but mostly unsorted, angular fragments with occasional pieces of sub-rounded						

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HOLE No. DDH-31

SHEET No. 7 of 17

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
		prophyritic andesite and basalt up to 10 cm. in diameter; bedding at about 30° to core axis.						
87.5 - 90.6	(0.0m)	From 87.5 to 87.9 predominantly dark volcanoclastic breccia as in latter part of last section - grading into light green-gray to buff rhyolitic agglomerate? with minor larger accidental fragments of basalt; crude flow banding or layering in places; matrix is slightly darker greenish colour; fragments are frequently rounded, embayed and have reaction rims.						
90.6 - 93.6	(0.0m)	Similar to latter part of last section.						
93.6 - 96.6	(0.0m)	From 93.6 to 95.5, similar, mottled, streaky, rhyolitic tuff and agglomerate with scattered, partly resorbed, accidental fragments of ? basalt and andesite; from 95.5 to 96.6 purplish gray, volcanic wacke - mostly grains are less than 5 mm. in size but minor scattered andesite and basalt fragments to 5-8 cm.						
96.6 - 99.7	(0.05m)	Predominantly dark, purplish gray, poorly sorted, volcanic wacke; polymictic with some large sub-rounded andesite fragments up to 12 cm. in diameter; last 0.5 m section is altered greenish-brown but similar material - possibly rhyolitic agglomerate in last 0.1m section.						



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HOLE No. DDH-31

SHEET No. 9 of 17

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
118-121	(0.1m)	Predominantly light to medium greenish andesitic tuff.						
121-124	(0.0m)	Greenish to pale greenish buff andesite and andesite tuff with some autobrecciated sections; some pits which may be weathered out amygdules in sections which have a slightly, clay-like appearance.						
124.1 - 127.1	(0.0m)	Light to dark, grayish green, porphyritic andesite with some tuff sections.						
127.1 - 130.2	(0.1m)	Medium grayish-green, porphyritic andesite with some mottled purplish areas; 0.7 m of agglomerate in center of section; some minor pyrite segregations.						
130.2 - 133.2	(0.0m)	Dark greenish gray to purplish gray, porphyritic fairly fresh andesite; abundant buff, somewhat altered phenocrysts of plagioclase up to 6 mm. long; few traces of jasper.						
133.2 - 136.3	(0.0m)	Pale greenish, porphyritic andesite and andesite tuff? with a few narrow stringers (up to 1.5 cm.) of jasper with associated pyrite grains; some minor, bleached, white sections with finely scattered pyrite cubes.						

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HOLE No. DDH-31

SHEET No. 10 of 17

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
136.3 -	(0.0m)	Pale greenish to mottled greenish and purplish						
139.3		gray, porphyritic andesite; few fractures filled with jasper and lesser pyrite; few irregular amygdules of quartz; the rock seems to be becoming more siliceous.						
139.3 -	(0.05m)	Predominantly purplish gray, porphyritic andesite						
142.4		with some mottled, green-gray areas - becoming very minor at end of section.						
142.4 -	(0.0m)	From 142.4 to 144.4 purplish gray porphyritic						
145.4		andesite or? dacite grading to greenish gray andesite and tuff; 144.4 to 145.1 mixed greenish-gray to red-brown, volcanoclastic sediments and breccia (? included in andesite?) 145.1 to 145.4 altered, light greenish, gray andesite.						
145.4 -	(0.0m)	From 145.4 to 146.55 pale to medium greenish,						
148.5		porphyritic andesite - last 0.15 m section is chilled? margin - bleached to light greenish; fragments of this material are in the underlying very little disturbed, sediments; 146.55 to 148.5 volcanoclastic sediments with graded bedding; finer grained material is reddish brown with abundant, pale greenish, sub-rounded andesite fragments - similar to the overlying flows; finer						



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HOLE No. DDH-31

SHEET No. 12 of 17

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
157.3 - 158.4	(0.1m)	Similar to last section.						
158.4 - 160.7	(0.0m)	Similar to last section.						
160.7 - 162.2	(0.0m)	Similar to last section.						
162.2 - 163.7	(0.2m)	Purplish gray to green gray, porphyritic andesite; scattered calcite stringers.						
163.7 - 166.8	(0.1m)	Dark to light green-gray, porphyritic andesite; scattered calcite stringers; minor scattered thin stringers of hematite.						
166.8 - 169.8	(0.0m)	Light to dark green-gray, porphyritic andesite; minor calcite and epidote stringers; no hematite seen.						
169.8 - 172.9	(0.0m)	Similar to last section; areas of slight brecciation common; calcite and epidote as part of cementing medium.						
172.9 - 175.9	(0.75m)	From 172.9 to 174.1 green gray to purplish gray, porphyritic andesite; autobrecciated in places; calcite and epidote in minor clots and stringers;						



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DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
		174.1 to 175.9 detrital breccia of weathered andesite fragments with irregular areas of finer, volcaniclastic sediments between weathered andesite fragments; large core loss in this zone; much broken core; clay alteration common.						
175.9- 177.1	(0.45m)	Primarily highly broken core of grayish, porphyritic andesite and brecciated andesite.						
177.1- 179	(0.35m)	Pale green-gray andesite; frequently auto-brecciated; minor stringers of hematite; suggestion of flow banding at about 30° to core axis; some areas of broken core and clay-like gouge.						
179- 181.7	(0.15m)	Similar to last section.						
181.7- 184.4	(0.90m)	Pale greenish gray to purplish gray, porphyritic andesite; autobrecciated in part; last 0.6m of recovered section is mostly friable, broken, clay-like material - fault zone?						
184.4- 186	(0.05m)	Pale purplish gray, porphyritic andesite; autobrecciated in part; minor flow banding at about 25° to core axis; minor clots and stringers of epidote; some of the small feldspar phenocrysts seem altered to epidote.						

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DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
186-	(0.2m)	Mostly very friable material; first 0.2m						
187.5		seems like andesite; remainder is ?? detrital sediments and breccia.						
187.5-	(0.05m)	Primarily, coarse greenish, detrital breccia						
189.6		of andesite fragments; greenish fragments with minor, reddish finer grained material between them- becoming polymictic near end of section; finer grained with 10-20% exotic fragments - rhyolite? and ? weathered basalt along with predominantly andesitic material.						
189.6-	(0.0m)	Volcaniclastic breccia; from fine grained						
191.3		(up to 6 mm), crudely banded material to coarse, chaotic breccia of andesite and reddish, flow-banded, rhyolite fragments; minor fine-grained pyrite cubes in matrix; coarser fragments up to 6-8 cm.						
191.3-	(0.0m)	Reddish brown to purplish gray breccia or						
193.6		agglomerate, predominantly of reddish, flow-banded rhyolite fragments; scattered, fine grained, pyrite cubes.						
193.6-	(0.0m)	From 193.6 to 194.25 purplish gray to reddish						
195.2		and mottled green, flow-banded rhyolite? or dacite or ? welded tuff - flattened fragments in some						

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PROPERTY..... Black Dome .....

HOLE No. .... DDH-32 .....

DIP AND AZIMUTH TEST		
Corrected		
Footage	Angle	Azimuth

Core Size ..... BQ .....

Angle of Hole ..... -70° .....

Claim..... .....

Section..... .....

Bearing ..... 105° .....

Total Depth ..... 96.0m .....

% Recovery ..... 96% .....

Elev. Collar ..... 2039.1 .....

Latitude ..... 4+16S .....

Departure ..... 3+41E .....

Sheet No ..... 1 ..... of ..... 9 .....

Logged by ..... James M. Dawson .....

Date Begun ..... Sept. 20/79 .....

Date Finished ..... Sept. 24/79 .....

Core Stored At ..... BAF WHSE. ....

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
0-3.6		Casing						
3.6- 4.57	(0.6m)	Light, greenish-gray, moderately altered, porphyritic andesite.						
4.57- 6.10	(0.0m)	Light, greenish-brown, altered andesite; 6 narrow quartz veinlets in section.						
6.10- 7.62	(0.0m)	From 6.10 to 6.3 similar to last section; from 6.3 to 7.62 green-gray, fairly fresh, porphyritic andesite.						
7.62- 8.84	(0.05m)	Brownish to green gray andesite; one 2 cm. wide, white quartz vein at end of section.						
8.84- 10.37	(0.10m)	Green-gray, porphyritic andesite; 2 quartz veinlets in first 0.1 m section; one about 1 cm. wide.						
10.37- 11.59	(0.0m)	Green gray porphyritic andesite.						











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HOLE No. DDH-32

SHEET No. 6 of 9

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
79.26-	(0.80m)	From 79.26 to 80.75 similar to last section;	#20680	79.26-	(1.49m)	Geochem	0.16	1.4
82.01		slightly less silicified; 10 thin quartz stringers; from 80.75 to 82.01 white to buff and limonite stained, highly silicified, altered andesite? - becoming friable at end of section;		80.75				
		core loss probably at end of section; estimate 10% quartz in recovered section.	#20681	80.75-	(1.26m)	Geochem	0.60	2.3
				82.01				
82.01-	(0.45m)	Primarily white, friable, fault gouge except for						
82.92		last 10 cm. of recovered material which is primarily silicified breccia and stockwork - estimate 60% quartz in this small section.	#20682	82.01-	(0.91m)	Geochem	0.07	2.8
				82.92				
82.92-	(0.04m)	Typical orange-brown, silicified breccia and	#20683	82.92-	(0.35m)	Fire Assay	0.21	2.40
83.27		stockwork - estimate 30% gray quartz in this section.		83.27				
83.27-	(0.03m)	Similar to last section; estimate 30 to 35% quartz	#20684	83.27-	(0.73m)	Fire Assay	0.34	5.49
84.0		in this section.		84.0				
84.0-	(0.03m)	Similar to last section - some areas are unoxidized						
84.75		- blue gray silicified material with scattered, fine grained disseminated pyrite in matrix; estimate 5% pyrite; estimate 30-35% quartz in whole section.	#20685	84.0-	(0.75m)	Fire Assay	0.55	3.77
				84.75				

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PROPERTY Black Dome HOLE No. DDH-32 SHEET No. 7 of 9

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
84.75-	(0.15m)	Primarily orange-brown, altered, silicified	#20686	84.75-	(0.55m)	Fire Assay	0.14	2.74
85.98		andesite with patches of breccia and quartz		85.30				
		stockwork; estimate 10-15% quartz in section.	#20687	85.30-	(0.68m)	Fire Assay	0.07	1.71
				85.98				
85.98-	(0.0m)	Similar to last section; one small patch of						
86.28		unoxidized breccia with frequent fine grained						
		disseminated pyrite in quartz matrix; estimate	#20688	85.98-	(0.3m)	Fire Assay	0.10	2.06
		5% quartz in section.		86.28				
86.28-	(0.0m)	Primarily white to blue-gray, silicified breccia,	#20689	86.28-	(0.3m)	Fire Assay	0.07	3.43
86.58		fragments are whitish; matrix is blue-gray with		86.58				
		abundant pyrite; estimate 25-30% quartz in section.						
86.58-	(0.0m)	Primarily orange-brown to white, silicified	#20690	86.58-	(0.62m)	Fire Assay	0.07	4.46
87.20		breccia with blue-gray quartz-sometimes with		87.20				
		contained pyrite as matrix; quartz makes up						
		25% of section.						
87.20-	(0.23m)	Orange-brown to blue gray and white silicified						
88.10		breccia; quartz makes up 25% of volume; fine	#20691	87.20-	(0.90m)	Fire Assay	0.07	3.09
		grained disseminated pyrite common where quartz		88.10				
		matrix is unoxidized.						
88.10-	(0.0m)	First 0.7m section is similar to last; thereafter	#20692	88.10-	(0.75m)	Fire Assay	0.07	3.43
89.93		breccia is scattered in predominantly white to light		88.85				

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HOLE No. DDH-32

SHEET No. 8 of 9

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
		blue altered andesite? - petering out at 89.55;						
		estimate 5-10% quartz in section; 89.55 to 89.93	#20693	88.85-	(0.70m)	Geochem	0.05	3.0
		pale blue-gray to buff, silicified andesite with		89.55				
		scattered quartz veinlets.						
89.93-	(0.0m)	Silicified, pale, blue-gray, altered andesite	#20694	89.55-	(1.0m)	Geochem	0.07	1.1
90.55		with 6 narrow quartz veinlets usually carrying minor		90.55				
		pyrite; also minor, disseminated pyrite						
		through the host rock.						
90.55-	(0.0m)	Light blue-gray, porphyritic dacite? 4 narrow	#20695	90.55-	(1.52m)	Geochem	0.01	0.5
92.07		quartz stringers in section; thin pyrite		92.07				
		stringers in incipient fractures; also as minor						
		disseminated grains.						
92.07-	(0.0m)	Similar to last section; 4 quartz veinlets -	#20696	92.07-	(0.83m)	Geochem	0.11	1.4
92.9		one about 3.5 cm. wide with abundant fine		92.9				
		grained pyrite.						
92.9-	(0.0m)	Pale, blue-gray, porphyritic dacite; 10 quartz						
94.82		stringers in section; some with scattered,	#20697	92.9-	(1.92m)	Geochem	0.10	0.8
		fine grained pyrite.		94.82				
94.82-	(0.05m)	Blue-gray to purplish brown and limonite stained,						
96.04		dacite tuff? bedding at 60° to core axis; 6 quartz						
		veins in section - one about 15 mm wide with abundant						



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PROPERTY..... Black Dome .....

HOLE No. .... DDH-33 .....

DIP AND AZIMUTH TEST		
Corrected		
Footage	Angle	Azimuth

Core Size ..... BQ .....  
 Angle of Hole ..... -60° .....  
 Claim.....  
 Section.....  
 Bearing ..... 105° .....

Total Depth ..... 69.2m .....  
 % Recovery ..... 88.7 .....  
 Elev. Collar ..... 2017.2 .....  
 Latitude ..... 5+22S .....  
 Departure ..... 2+62E .....

Sheet No ..... 1 ..... of ..... 7 .....  
 Logged by ..... J. M. Dawson .....  
 Date Begun ..... Sept. 24/79 .....  
 Date Finished ..... Sept. 30/79 .....  
 Core Stored At ..... BAF WHSE. ....

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
0-6.2		Casing						
5.5- 6.13	(0.0m)	Drilled ahead material; greenish brown, moderately altered, porphyritic andesite. 5 narrow quartz stringers in section.						
6.13- 8.54	(0.3m)	Predominantly light brownish, moderately altered, porphyritic andesite; 2 quartz veinlets in section.						
8.54- 10.67	(0.1m)	Similar to last section; no quartz veins.						
10.67- 12.50	(0.05m)	Similar to last section; 2 quartz veinlets in section.						
12.50- 13.72	(0.25m)	Similar to last section; 1 quartz veinlet in section.						
13.72- 14.33	(0.1m)	Brown and bluish gray (unoxidized) porphyritic andesite; 5 quartz veins in section; one is 3.5 cm wide vein of jasper.						

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PROPERTY Black Dome HOLE No. DDH-33 SHEET No. 2 of 7

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
14.33	(0.0m)	Predominantly brownish, moderately altered, porphyritic andesite, feldspar phenocrysts altered to clays; some zoning in feldspar phenocrysts; scattered ferromagnesian phenocrysts altered to chlorite; 3 narrow quartz veinlets in section.						
17.1								
17.1-	(0.0m)	Similar to last section; 2 narrow quartz veinlets.						
18.29								
18.29-	(0.15m)	Similar to last section; 5 quartz veinlets in section.						
20.21								
20.21-	(0.0m)	Similar to last section; 2 narrow quartz veinlets.						
23.17								
23.17-	(0.0m)	Greenish brown to mottled, blue-gray, porphyritic andesite; 17 narrow quartz veinlets in section.	#20698	24.55-	(1.66m)	Geochem	0.04	1.3
26.21					26.21			
26.21	(0.0m)	Similar to last section; 21 quartz veinlets in	#20699	26.21-28	(1.79m)	Geochem	0.02	0.5
29.26				#20700	28-29.26	(1.26m)	Geochem	0.04
29.26-	(0.02m)	Predominantly brownish, moderately, altered section porphyritic andesite; 5 quartz veinlets in section.						
29.87			#20701	29.26-	(1.04m)	Geochem	0.04	1.9
					30.30			
29.87-	(0.2m)	Similar to last section; 8 quartz veinlets in section.						
32.01				#20702	30.30-	(1.71m)	Geochem	0.07



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HOLE No. DDH-33

SHEET No. 3 of 7

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
32.01-	(0.0m)	Similar to last section; 4 quartz veinlets in						
33.53		section.						
33.53-	(0.2m)	Similar to last section; 2 quartz veinlets in						
34.45		section.						
34.45-	(0.0m)	Mottled, brownish and blue-gray, altered andesite;	#20703	34.45-	(1.55m)	Geochem	0.11	1.1
37.50		fine grained, disseminated pyrite in the blue-gray		36.0				
		unoxidized rock; 9 quartz veinlets in section;						
		some silicification?	#20704	36.0-	(1.50m)	Geochem	1.35	2.2
				37.50				
37.50-	(0.0m)	Similar to last section; 8 quartz veinlets in						
38.41		section.	#20705	37.50-	(0.91m)	Geochem	0.42	1.6
				38.41				
38.41-	(0.0m)	Similar to last section; 9 quartz veinlets in	#20706	38.41-	(1.21m)	Geochem	0.74	1.7
39.62		section.		39.62				
39.62-	(0.0m)	Similar to last section; 8 quartz veinlets in	#20707	39.62-	(1.83m)	Geochem	0.40	2.1
41.45		section.		41.45				
41.45-	(0.0m)	Predominantly blue-gray, silicified? porphyritic						
42.37		andesite; frequent fine grained disseminated	#20708	41.45-	(1.53m)	Geochem	0.76	8.3
		pyrite; minor mottling and envelopes of brown		42.98				
		alteration around fractures and quartz veinlets;						
		12 quartz veinlets in section.						







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PROPERTY Black Dome HOLE No. DDH-33 SHEET No. 7 of 7

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(σ/t)
64.02-	(0.8m)	Poor recovery - orange brown, altered andesite	#20722	64.02-	(1.52m)	Fire	0.34	1.03
65.54		with scattered quartz veins and stockwork; estimate 5-7% quartz.		65.54		Assay		
65.54-	(0.0m)	Light gray to buff and orange brown altered	#20723	65.54-	(0.26m)	Fire	0.07	4.11
66.15		andesite? or dacite? tuff with scattered quartz stringers and stockwork; first 0.4m is quartz stockwork with about 30% quartz; remainder of section is grayish less altered rock with less than 5% quartz - looks like flow banded rhyolite or layered tuff.	#20724	65.80-	(0.35m)	Geochem	0.18	0.8
66.15-	(0.0m)	Primarily light buff to gray, banded rhyolite tuff?						
67.37		Banding is at 80° to core axis; scattered minor quartz veining in places; estimate 10 quartz veinlets in section.	#20725	66.15-	(1.22m)	Geochem	0.04	1.1
67.37-	(0.15m)	Light gray to buff, altered rhyolite or dacite tuff; grading to dark green-gray, banded porphyritic dacite? at end of section; 6 quartz veinlets in section.						
68.59-	(0.0m)	Dark, blue-gray, porphyritic, flow banded dacite; subhedral, zoned, feldspar phenocrysts up to 3 mm long; banding at 75-80° to core axis; 3 narrow quartz veinlets in section.						
69.2								
		END OF HOLE.						

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PROPERTY..... Black Dome .....

HOLE No. .... DDH-34 .....

DIP AND AZIMUTH TEST		
Corrected		
Footage	Angle	Azimuth

Core Size ..... BQ .....  
 Angle of Hole ..... -70° .....  
 Claim.....  
 Section.....  
 Bearing ..... 105° .....

Total Depth ..... 35.1m .....  
 % Recovery ..... 90.0 .....  
 Elev. Collar ..... 1986.7 .....  
 Latitude ..... 7+30S .....  
 Departure ..... 1+80E .....

Sheet No ..... 1 ..... of ..... 4 .....  
 Logged by ..... James M. Dawson .....  
 Date Begun ..... Sept. 30/79 .....  
 Date Finished ..... Oct. 1/79 .....  
 Core Stored At ..... BAF WHSE. ....

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
0-4.5		Casing						
2.8- 4.57	(0.4m)	Purplish gray to red-brown, porphyritic andesite; some suggestion of flowage - alignment of phenocrysts into crude bands; some thin wisps of hematite.						
4.57- 7.32	(0.0m)	Predominantly purplish gray, porphyritic andesite with red-brown, hematite-rich, interlayered tuff bands; banding at about 45° to core axis; one area of about 0.5m altered light brown zone with a few quartz veinlets - from 5.75 to 6.2 m; 6 quartz veinlets here.						
7.32- 8.54	(0.15m)	Purplish gray to greenish-brown, faintly flow banded, porphyritic andesite.						
8.54- 10.67	(0.0m)	Predominantly purplish gray faintly flow banded andesite - flows or tuffs?						
10.67- 13.72	(0.1m)	Purplish gray porphyritic andesite with some faint flow banding; some bleaching to pale greenish						

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PROPERTY Black Dome

HOLE No. DDH-34

SHEET No. 2 of 4

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE		Au(g/t)	Ag(g/t)
		brown at two narrow altered zones; few narrow stringers of hematite.					
13.72- 16.76	(0.0m)	Dark purplish gray to light greenish brown, porphyritic andesite; 4 quartz veinlets in section.					
16.76- 19.51	(0.0m)	Purplish gray to green gray, porphyritic andesite; 4 quartz veinlets in section.					
19.51- 22.25	(0.0m)	From 19.51 to 19.9 green-gray, porphyritic andesite and andesite tuff; from 19.9 to 21 predominantly greenish gray, coarse volcanoclastic sediments - pinkish red cast to some sections; scattered vuggy quartz and calcite veinlets	#20726	20.25-21.25 (1.0m)	Geochem	0.20	1.9
		between 20.5 and 21 m, approximately 10 quartz veinlets and irregular areas of silicification; from 21 to 22.25 predominantly light greenish brown, porphyritic rhyolite or dacite with minor interlayering of volcanoclastic sediments; in this section there are 15 narrow vuggy quartz veinlets - some have an amethystine colour.	#20727	21.25-22.25 (1.0m)	Geochem	0.39	0.9
22.25- 25.29	(0.5m)	Light greenish brown to buff, flow banded rhyolite and rhyolite tuff and breccia; scattered purplish gray veinlets of quartz - particularly concentrated between 23.35 and 24.2 where rhyolite is	#20728	22.25- 23.35	(1.10m) Geochem	0.13	1.5
			#20729	23.35- 24.2	(0.85m) Fire Assay	0.07	1.37

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HOLE No. DDH-34

SHEET No. 3 of 4

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
		brecciated and recemented by amethystine quartz;						
		quartz makes up 10-15% of this section; scattered	#20730	24.2-	(1.09m)	Fire	0.31	2.06
		quartz veinlets in rest of section.		25.29		Assay		
25.29-	(0.45m)	Buff white to pale orange-brown, altered	#20731	25.29-	(0.96m)	Fire	0.24	10.29
27.12		rhyolite tuff and breccia with scattered quartz		26.25		Assay		
		veins and stockwork. Estimate 10-15% gray						
		quartz in section; in the last 0.35m of recovered	#20732	26.25-	(0.87m)	Fire	2.81	74.74
		section, quartz makes up about 60% of volume.		27.12		Assay		
27.12-	(0.4m)	Buff to pale orange brown, altered rhyolite breccia	#20733	27.12-	(0.92m)	Fire	4.46	50.06
28.04		with quartz veinlets and stockwork; estimate		28.04		Assay		
		30% quartz in section.	#20734	28.04	(0.57m)	Fire	0.86	16.11
				28.61		Assay		
28.04-	(0.0m)	Altered grayish buff to orange-brown altered						
29.26		andesite; scattered minor veining with gray quartz;	#20735	28.61-	(0.65m)	Fire	0.24	9.60
		estimate 5% gray quartz as veins in section;		29.26		Assay		
		N.B. First 0.12m is ground core - probably from						
		previous section.						
29.26-	(0.8m)	Poor recovery; predominantly whitish buff to light						
31.09		orange-brown altered rhyolite or dacite with	#20736	29.26-	(1.83m)	Fire	0.10	8.91
		scattered thin gray quartz veinlets and weak		31.09		Assay		
		stockwork - estimate 5-8% gray quartz veinlets in						
		section.						





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PROPERTY..... Black Dome .....

HOLE No. DDH-35 .....

DIP AND AZIMUTH TEST		
Corrected		
Footage	Angle	Azimuth

Core Size ..... BQ .....  
 Angle of Hole ..... -50° .....  
 Claim.....  
 Section.....  
 Bearing ..... 105° .....

Total Depth ..... 57.3 m .....  
 % Recovery ..... 78.6 .....  
 Elev. Collar ..... 2002.3 .....  
 Latitude ..... 8+81S .....  
 Departure ..... 0+28E .....

Sheet No. 1 ..... of ..... 6 .....  
 Logged by James M. Dawson .....  
 Date Begun Oct. 2/79 .....  
 Date Finished Oct. 5/79 .....  
 Core Stored At BAF WHSE. ....

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
0-3.05		Casing						
3.05- 3.96	(0.3m)	Light brownish green, slightly altered, porphyritic andesite.						
3.96- 5.49	(0.45m)	Green gray to light brownish andesite; more altered and friable locally in section.						
5.49- 6.71	(0.15m)	Similar to last section; core quite broken.						
6.71- 7.93	(0.15m)	Brownish, altered porphyritic andesite grading to grayish fairly fresh material at end of section.						
7.93- 10.06	(0.35m)	Light brownish, altered andesite with some friable sections; some local areas of relatively unaltered, grayish andesite.						
10.06- 11.59	(0.3m)	Green gray, fresh, porphyritic andesite grading to brownish, altered material at end of section.						

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PROPERTY Black Dome HOLE No. DDH-35 SHEET No. 2 of 6

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
11.59-	(0.65m)	Predominantly brownish, moderately altered, porphyritic andesite; core very broken.						
13.41								
13.41-	(0.05m)	Altered brownish andesite grading to relatively fresh gray material at end of section.						
14.02								
14.02-	(0.35m)	Predominantly dark gray to purplish gray, faintly flow banded, porphyritic andesite.						
15.24								
15.24-	(0.9m)	Broken and ground core; predominantly purplish gray, porphyritic andesite.						
16.46								
16.46-	(0.4m)	Broken core; similar to last section.						
17.06								
17.06-	(1.5m)	Purplish gray to light greenish altered and friable andesite.						
19.21								
19.21-	(0.0m)	Predominantly brownish, partly altered, porphyritic andesite.						
19.51								
19.51-	(0.1m)	Similar to last section.						
20.21								
20.21-	(0.05m)	Highly broken core; purplish gray to brownish, altered porphyritic andesite; a number of fractures						
21.64								

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PROPERTY Black Dome HOLE No. DDH-35 SHEET No. 5 of 6

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
46.33-	(0.2m)	Highly broken core; similar to last section.						
47.55								
47.55-	(0.1m)	Highly broken core; similar to last section;						
49.38		2 narrow quartz stringers in section.						
49.38-	(0.0m)	From 49.38 to 49.60, dark greenish brown						
50.60		porphyritic andesite; 49.60 to 50.60, greenish gray andesitic tuff; core is much less broken.						
50.60-	(0.2m)	From 50.60 to 52.50, grayish-green andesitic tuff;						
53.35		scattered large purplish gray fragments (up to 1.5 cm in diameter) in a greenish groundmass; 52.50 to 53.35 is predominantly reddish brown, volcaniclastic sediments; some crude bedding at about 35° to core axis.						
53.35-	(0.1m)	From 53.35 to 54.4 light brownish to buff,						
55.48		fairly fine grained, poorly bedded volcaniclastic sediments; maximum size of some fragments in these sediments is 4 mm; from 54.4 to 55.48 pale greenish, porphyritic, faintly flow banded rhyolite.						
55.48-	(0.9m)	Ground core + about 1.0 m of soft mud or gouge						
56.70		- all this latter material is lost; recovered core is buff to light green gray, porphyritic						







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HOLE No. DDH-36

SHEET No. 2 of 7

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
14.3-	(0.0m)	Similar to last section; minor autobrecciated						
17.4		horizons.						
17.4-	(0.0m)	Similar, flow layered, streaky rhyolitic ignimbrite;						
20.4		buff to pale orange-brown in colour; the rock grades						
		in places to a more porphyritic type with rounded						
		quartz or quartzo-feldspathic "eyes" averaging						
		about 5 mm in diameter.						
20.4-	(0.0m)	Similar to last section; minor autobrecciation						
23.5		in places.						
23.5-	(0.0m)	Similar to last section; gray-buff to orange						
26.5		brown because of limonitic staining; 6 narrow						
		later quartz veins in section.						
26.5-	(0.2m)	Similar, irregularly flow-layered rhyolitic						
29.6		ignimbrite; occasional autobrecciation;						
		some small vuggy cavities.						
29.6-	(0.7m)	Core broken and ground up; gray-buff to reddish						
31.1		brown, irregularly flow layered rhyolitic						
		ignimbrite; some pisolitic growths and vugs.						
31.1-	(0.65m)	First half of section - broken core of red-brown,						
32.2		flow layered rhyolite; last 0.25m of recovered section						
		is pale buff to white altered, friable, rhyolite						
		tuff(?)						

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HOLE No. DDH-36

SHEET No. 3 of 7

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
32.2-34.5	(0.9m)	Pale greenish-buff, ashy-looking material grading to light orange brown and reddish irregularly flow layered and autobrecciated rhyolite; several 1-2 cm. gray quartz stringers which might be secondary, between 32.9 and 33.3 last .3m of recovered section is bleached and altered.						
34.5-36.6	(1.2m)	Primarily grayish buff, rhyolitic tuff? occasional very friable sections - fault zone?						
36.6-37.8	(0.0m)	Coarse rhyolite tuff - streaky, stretched fragments up to 2-3 cm. long; this is a pale greenish-buff rock with fragments of almost the same colour; very indistinct outlines of some fragments.						
37.8-40.8	(0.0m)	From 37.8 to 40.05 similar streaky, white to buff rhyolite tuff-occasional reddish-buff accidental rounded, rhyolite? fragments to about 5 cm. in diameter; majority of fragments are "fiamme"; definite eutaxitic structure; banding at ~70° to core axis; from 40.05 to 40.8 predominantly volcanic wacke with 2 large bombs of ? basalt up to 15 cm wide; crude bedding at about 50° to core axis; majority of epiclastic fragments are from 3 mm to 2 cm.						





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PROPERTY Black Dome

HOLE No. DDH-36

SHEET No. 6 of 7

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
		fragments here; some cementing of fragments by later quartz? estimate 6-7 quartz veinlets in section.						
67.9-69.0	(0.0m)	Predominantly coarse, epiclastic breccia with two thin (8-12 cm) basalt or andesite flows; fragments in breccia up to 4 cm in diameter.						
69.0-70.0	(0.05m)	Similar coarse, polymictic, volcanoclastic breccia; some minor bedded sections at 45° to core axis; 4 narrow quartz veinlets in section.						
70.0-72.3	(0.5m)	From 70.0 to 71.9 similar, poorly sorted though fine grained (fragments less than 1 cm across) volcanoclastic sediments; possibly silicified in part; estimate 5 thin gray quartz stringers; from 71.9 to 72.3 dark brown, fine grained basalt flow.	#20745	70-72.3	(2.3m)	Geochem	0.075	0.9
72.3-73.5	(0.3m)	Predominantly brecciated basalt? medium to orange brown because of alteration; pervasive quartz veining and stockwork; estimate 15% quartz in section.	#20746	72.3-73.5	(1.2m)	Fire Assay	0.171	2.74
73.5-75.5	(0.0m)	From 73.5 to 75.15 predominantly orange-brown to buff altered breccia; quartz veinlets and	#20747	73.5-74	(0.5m)	Fire Assay	0.069	1.37

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PROPERTY Black Dome HOLE No. DDH-36 SHEET No. 7 of 7

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE			Au(g/t)	Ag(g/t)
		stockwork through section; estimate 30% to 40%	#20748	74-74.5	(0.5m)	Fire A.	0.343	1.71
		quartz; from 75.15 to 75.5 dark greenish andesite	#20749	74.5-75	(0.5m)	Fire A.	0.171	1.37
		or basalt tuff with thin quartz stringers and	#20750	75-75.5	(0.5m)	Fire	0.137	1.03
		stockwork; estimate 10% quartz.				Assay		
75.5-77.0	(0.2m)	Dark greenish to greenish brown andesite tuff						
		or flow; much broken core; estimate 5 quartz						
		stringers in section.						
77.0-78.4	(0.0m)	Greenish gray, more typical porphyritic andesite;						
		scattered epidote stringers; some feldspar						
		phenocrysts altered to epidote; rock is relatively						
		fresh.						
		END OF HOLE.						

APPENDIX B

PERSONNEL

PERSONNEL

R. M. Blais, P. Eng.	Mining Engineer	- May 26-31; June 21-30; July 1-10, 16-25; August 1-10; 19-28; September 5-14; 20-29; October 3-12; 18-22.
A. F. Reeve, P. Eng.	Geological Engineer	- April 10, 15; May 28, 29; June 28-30; July 5-9; August 12-14; September 5-12; October 9, 10.
J. M. Dawson, P. Eng.	Geologist	- August 27-31; September 1-13; September 17-30; October 1-3; October 7-12; October 20-22.
W. Gruenwald, B. Sc.	Geologist	- July 1-7; July 12-14; July 24-28; August 3-12; August 18-25.
M. Dawson	Bushman	- July 14-17; July 23-28; August 3-12; August 21-25.
T. Johns	Cook	- July 2-31; August 1-30; September 1-30; October 1-23.



APPENDIX C

STATEMENT OF EXPENDITURES

STATEMENT OF EXPENDITURES

A. PERSONNEL:

R. M. Blais, P. Eng. 91 days @ \$125.00/day . . . . .	\$11,375.00	
A. F. Reeve, P. Eng., 24 days @ \$200.00/day . . . . .	4,800.00	
J. M. Dawson, P. Eng., 44 days @ \$160.00/day . . . . .	7,040.00	
W. Gruenwald, B. Sc., 33 days @ \$125.00/day . . . . .	4,125.00	
M. Dawson, 25 days @ \$90.00/day . . . . .	2,250.00	
T. Johns, 30 days @ \$40.00/day . . . . .	1,200.00	
T. Johns, 83 days @ \$50.00/day . . . . .	<u>4,150.00</u>	\$34,940.00

B. ASSAYS AND GEOCHEMICAL ANALYSES . . . . . 4,500.00

C. FIXED WING AND HELICOPTER TRANSPORT . . . . . 3,000.00

D. DRILLING . . . . . 78,000.00

E. TRAVEL . . . . . 1,000.00

F. TELEPHONE AND POSTAGE . . . . . 900.00

G. FREIGHT, EXPRESS AND DELIVERY . . . . . 1,400.00

H. OFFICE OVERHEAD, SECRETARIAL, REPORTS, MAPS, ETC. . . . . 1,467.45

CARRIED FORWARD . . . . . \$125,207.45

Statement of Expenditures (continued) . . . . . page two

BROUGHT FORWARD . . . . .	\$125,207.45
I. CAMP SUPPLIES, TENTS, LUMBER, EQUIPMENT, AND MISCELLANEOUS HARDWARE. . . . .	6,000.00
J. FOOD . . . . .	4,300.00
K. SURVEYING EQUIPMENT AND INSTRUMENT RENTALS . . . . .	300.00
L. REPAIRS AND MAINTENANCE . . . . .	90.00
N. PETROLEUM PRODUCTS AND CONTAINERS . . . . .	2,500.00
N. TRUCK AND CAR RENTALS AND LEASE PAYMENTS . . . . .	<u>5,000.00</u>
TOTAL HEREIN . . . . .	<u><u>\$143,397.45</u></u>

APPENDIX D

WRITER'S CERTIFICATE

**JAMES M. DAWSON, P.ENG.**  
**GEOLOGIST**

SUITE 1 - 219 VICTORIA STREET  
KAMLOOPS, B.C.

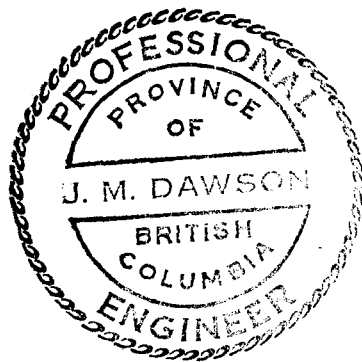
PHONE (604) 374-6427

CERTIFICATE

I, JAMES M. DAWSON, OF KAMLOOPS, BRITISH COLUMBIA, DO  
HEREBY CERTIFY THAT:

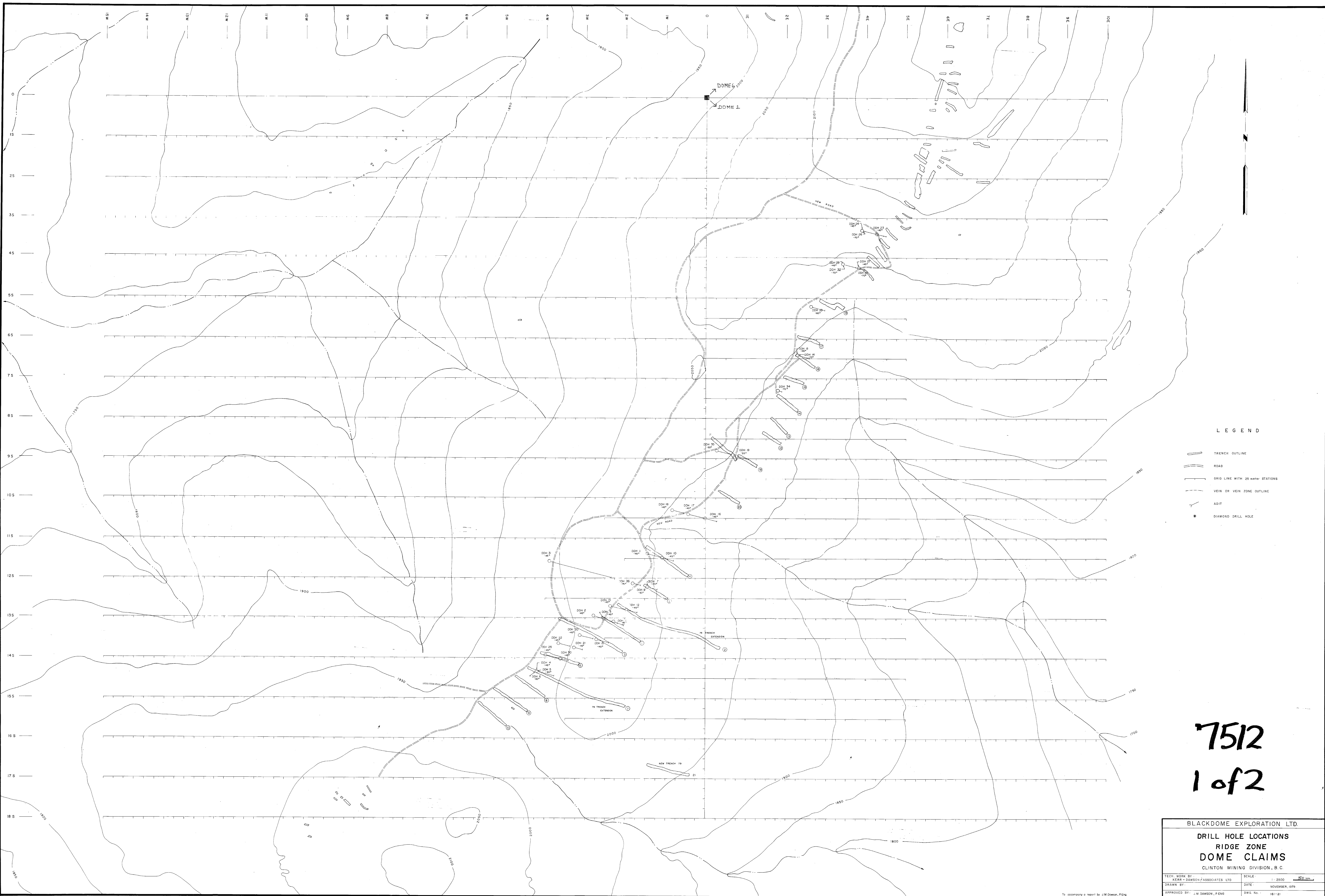
- (1). I am a geologist employed by Kerr, Dawson and Associates Ltd. of Suite #1 - 219 Victoria Street, Kamloops, B. C.
- (2). I am a graduate of the Memorial Univeristy of Newfoundland - B. Sc. (1960); M. Sc. (1963), a fellow of the Geological Association of Canada and a Member of the Association of Professional Engineers of British Columbia. I have practised my profession for 16 years.
- (3). I am the author of this report which is based on a programme of diamond drilling carried out under my supervision.

KERR, DAWSON & ASSOCIATES LTD.,



*James M. Dawson*  
James M. Dawson, M. Sc., P. Eng.,  
GEOLOGIST

November 27, 1979,  
KAMLOOPS, B. C.



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To accompany a report by J.M. Dawson, P.Eng.