

896509

HIGHMONT

1972 / 73

CORE LOGS

# INSTRUCTION SHEET

Lg 0.3 → 0.5  
vlg < .3

HOLE \_\_\_\_\_ 69-3

FOOTAGE \_\_\_\_\_ 100-125 (in 25 units ie by box)

Rock TYPE(S) — R1 Normal Bsd

R designations  
not used  
generally

- R2 Fg " add (5) if <sup>obviously</sup> silica-
- R3 mafic " enriched
- R4 D1 dike
- R5 Aplite

A1 ("seriate") argillic (Conienza)

A2 chlorite

ALTN \_\_\_\_\_

A1 ser.  
A2 chl.

~~A2 chlorite~~  
~~A2 seriate~~ } Intensity I1 Weak I2 Mod I3 Strong

A3 Kspar

A4 Pink altn - plag?  
A5 chalky white - kaolin?

VEINS \_\_\_\_\_

V1 Qtz \_\_\_\_\_ V1 (Cu) - copper brg

V2 Qtz - Ser. — V2 (Cu) " "

V3 Qtz - Kspar

V4 Calcite

V5 Gypsum

VEIN DENSITY \_\_\_\_\_

V01 (~~less than 6"~~ <sup>6-1'</sup> ~~English Scale~~), V02 (<sup>1-3'</sup> ~~foot~~), V03 (~~hard~~), V04 (Lower) <sup>23'</sup>  
Add "open" if xls show open space filling origin

## MINERALS OF INTEREST

M1 Cpy

M6 Pyrite

M2 Bn

M7 Hematite

M3 Cat

M8 Gypsum

M4 Malachite

M9 Calcite

M5 Moly

Ratio Cpy / Bn | RT1 - Cpy > Bn  
| RT2 - Bn > Cpy  
| RT3 - EQUAL

## General Comments

V1 column gives the # of feet between qtz veins

HIGHLAND VALLEY: STATION CARD

*Drill Hole*

Traverse No.  General Location

*Max Footage  
in Unit*

Station No.

Exact Location: Lat.  Long.

Samples

Rock Type: Main  Use block 16

Secondary  for breccias

Minor

Foliation: Development..Strike..Dip..Dirn.

Mineralogy: Quartz  Texture

Plagioclase

K feldspar

Mafic  Texture

Matrix

Mafic minerals  *Cu Minerals*

Bi - Hb ratio  *Ratio 1 cpy > bn  
2 bn > cpy*

Alteration Minerals  Intensity

Vein Minerals  Intensity  Width

Dykes: Strike..Dip..Dirn., Density, .Width

Photographs: Colour  BW

Joints: Strike..Dip..Dirn..Density..Character

Striae: Strike..Dip..Dirn..Movement Sense

Faults: Strike..Dip..Dirn..Movement Sense

General Comments and Sketches

HIGHMONT

plotted

SECTION 105,100

# HIGHLAND VALLEY DRILL LOG SHEET

105,100

Hole 68-34

Date July 15/73

Property HIGH MONT

W. J. McMillan

B.C. Dept. of Mines and Petroleum Resources

Box Footage	Grade	Qz. Veins	Pyr.	Cpy. V. Bn.	Feldspar Alteration			Feld. Fresh	m qtz	M <sub>14</sub> A	Qz. Ser. Zones	MoS <sub>2</sub>	Rock Type	Comments
					pink	grn	wh							
1 8-28	vlg	10	-	✓	-	-	1-2 P	-	fresh chl	1	10	-	5	
2 -50	vlg	-	-	✓	-	-	2P 3L	-	chl 1-2 P	1	-	-	5	
3 -74	vlg	10	-	✓	-	2-3 L	2L	-	chl 1 slbr 2P	2	-	-	5	
4 -102	lg	5	-	✓	see below			-	chl (1-2) ser(B)	2	10	1/2	5	
								(EOH)						

- 1 gts - ser cpy 30° gts - cpy 35°  
aplite stampers have graphed zones 25  
chl - cct at 30° cpy - gts - ser 30°
- 2 cpy - chl fr 30° cpy in mafics  
gts - cct @ 30°
- 3 like 2 to 68 then grn ser alt (2 → 3P)  
Barren gts <sup>vein</sup> cut by 42-ton vein (vaggry)  
Bt - cpy - ser (?) fr. @ 30°
- 4 Gauge to 80 - one piece of gts - cpy vein w. ser halo in it  
local bonanza cpy - MoS<sub>2</sub> - gts veins  
altn after gauge is green ser. - starts at level  
2-3 gradually diminishes to 1-2 by EOH  
chl - cpy some bn w. pink halo (15°)

# HIGHLAND VALLEY DRILL LOG SHEET

105,100

Hole 68-35

Date July 16/73

Property HIGHTMONT

510-520 ?  
duplca ?

Sunny, Hot

W. J. McMillan

NICE

\* NOTE FOUL UP IN  
BOX SEQUENCE

B.C. Dept. of Mines and Petroleum Resources

Box Footage	Grade	Qz. Veins	Pyr.	Cpy. V. Bn.	Feldspar Alteration			Feld. Fresh	M. after Pt	Qz. Ser. Zones	MoS <sub>2</sub>	Rock Type	Comments	
					pink	grn	wh							
3-28	lg	10	-	✓	-	-	1-2 p	-	fresh chl (1)	.5	7	✓	5	
3 58-69	lg	20	-	✓	2 near zeolite	-	2 p	-	chl rep	1	7	-	5	
5 94-115	lg	-	-	✓	-	2	grn wh 1-2 p	-	chl	.5	5	-	5	qtz-ser veins are 1/8" + less thick
10 204-226	lg	-	-	✓	-	2-3	grn wh 1-2 p	-	chl	1	-	-	5	
9 183-204	lg	10	?	?	-	-	grn wh 1-2 p	✓	fresh chl	1	-	-	5	qtz-cal vein chl-cpy fr 50° qtz-cpy fr 45°

Have to watch your head in the core shack with the swallows flitting about <sup>again this AM.</sup>  
Saw coyote at camp 2 days ago, saw deer on road on way up this A.M.

- qtz-ser-cpy (0°) chl-ser-cpy-MoS<sub>2</sub> fr 40°  
sp-MoS<sub>2</sub> fr 30° qtz-brn-act vein 10° locally has qtz-ser-halo  
cpy-MoS<sub>2</sub>-Plakyser-qtz fr 10°
- lg mafics → chl, ser (1-2p) Cpy, bn in mafics
- aplite (to qtz plag ppy) stamper  
chl-cpy fr 30° qtz-ser-cpy zoned (10°)  
pink zeolite veins (30°) qtz-ser-cpy-act 10°  
arg actn (2-3) on some fr faces sp-cpy fr 40°  
ser-chl-cpy fr 60°; chl-cpy fr 45°
- crystalline calcite vein 30° Rather rubbery core
- qtz-ser-cpy 0° fr 20°; qtz-ser-cpy 45°  
chl, qtz-ser w. ser actn outward fr fr. 20°  
cpy some green ser bi(?) fr 10° arg actn (2-3) on joint faces
- 184-187 60' zone fr fresh or greenish white (1-2) arg. actn
- qtz-cp-cpy some ser vein 50° chl fr 70° ser-cpy slips 20°, 35°  
calcite 35°
- 248 actn changes to yell-green, soft (level 3) argillic 212
- actn drops off to level 1-2 then level 1 midway thru box

# HIGHLAND VALLEY DRILL LOG SHEET

Hole 68-35

Date July 16/73

$\sqrt{1/2}$  mod. abundant

Property HIGHMONT

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B.C. Dept. of Mines and Petroleum Resources

Box Footage	Grade	Qtz. Vens	Pyr.	Cpy. > Bn.	Feldspar Alteration			Feld. Fresh	K up to Fr	Min Fr	Qtz-Ser. Zones	MoS <sub>2</sub>	Rock Type	Comments
					wh	gn	ol							
226-249	vg	20	-	?	wh gn	gn	wh	-	chl ser 3	2	20	-	5	calcite veins aplitic (1%) stranger 35
7, 135-162 <del>226-249</del>	lg	5	-	✓	wh gn	ol gn	-	-	ser chl 3	2	10	✓	5	aplitic - I think
13 272-298	lg	5	-	✓	-	ol. gn	-	-	ser chl 3	-	10	$\sqrt{1/2}$	5	P
15 321-342	lg	20	-	Bn >	-	gn	-	-	chl 3	2	-	-	5	at least in part
17 363-385	vg	10	-	✓	wh gn	gn	-	-	chl ser 3	2	10	✓	5	

6 115-135 after 128 Qtz - Kspar pegmatoid segregations  
 128-136 odd porphyry occur.  
 aplitic nature clearer at end

7 Gougy - 137-155 some Qtz - MoS<sub>2</sub>, Qtz - cpy +  
 Qtz - cpy - bn vein frags  
 cpy - bn - bi (?) chl fr. 10°  
 dissem? cpy - MoS<sub>2</sub> in some alt. zones 152  
 flooded by local zones of och hem in gougy area

10, 11 Comments on last page

12 Pervasive yell. grn actn (2-3) mafic → chl  
 Qtz - bn - cpy veins w. ser. Labels Qtz - ser 5  
Gougy MoS<sub>2</sub> ✓ Qtz veins 7 (19)

13 Gougy 282-3, 289-  
 xline calcite vein 50° Qtz - cpy - MoS<sub>2</sub> fr 45°  
 Qtz - cpy - flaky ser - och hem 10° Qtz - cpy - MoS<sub>2</sub> 30°

14 Gougy to 313 cpy dissem in alt. rock, t with ser. rept. mafics

15 324-330 Gougy ser - bn - cpy fr. 10° calcite 30°  
 Qtz - ep - ~~bn~~ bn - cpy fr. 35°  
 Rock almost fresh after 340

16 Qtz - ser - cpy - some bn  $\frac{1}{16}$  wide (10°)  
 Rock almost fresh until almost at end of box

17 Qtz + ep veins 35° - barren  
 green ser (not flaky) some cpy fr 10°  
 cpy in mafics locally

HIGHLAND VALLEY DRILL LOG SHEET

Hole 68-26 Date July 17/73

*off section but short*  
~~no sample scanned~~

Property H94 MORT

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Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. V. Bn.	Feldspar Alteration		Feld. Fresh	m of Fe	Min fr	Qtz-Ser. Zones	MoS <sub>2</sub>	Rock Type	Comments	
					pink	wh								
9-26	vlg	-	-	≧	2l	-	1p	l	fr. chl	1	-	-	5	
3 49-70	vlg	-	-	<	-	-	1-2 p	-	fr. chl	1	-	-	5	
44 5 70-100	vlg	-	-	7?	pink + green 1-2 l	-	1-2 P	-	fr chl (2)	1	-	-	5	
ENT					not signif.	-	too little material							

- 1 ep-chl veins - pink halos 30,70 mafic → chl, ep in pink zones  
chl-ep cpy 20° ± bn chl-bn-ep 20°  
arg altn (2-3) on some fr. faces 20°
- 2 like 1 but bn > cpy + MoS<sub>2</sub> present  
a fr @ 25°.
- 3 chl-ep-olh hem - oct(?) (10°) 50 + bn (30°)  
calcite 30°  
Pink dyke is graphic + peg. texture 2" wide 45°
- 4 ~~Pink +~~ qtz-chl-ep 10-30°  
some mafic → chl, ep
- 5 chl-epy fr @ 10-30° 96



plotted Aug 3/73

105,100

HIGHLAND VALLEY DRILL LOG SHEET

Hole 68-27

Date July 16/73

Property HIGH MONT

Sunny, warm  
W. J. McMillan NICE BREEZE

B.C. Dept. of Mines and Petroleum Resources

Collared in o/c

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. > Bn.	Feldspar Alteration		Feld. Fresh	m of f <sub>c</sub>	mm f <sub>r</sub>	Qtz.-Ser. Zones	MoS <sub>2</sub>	Rock Type	Comments	
					gm	wh								
0-23	1/9	-	-	cpy 2 bn?	-	-	1-2 P	l	fresh ch <sub>1</sub>	2	20	-	5	nearly fresh
3 46-67	1/9	10	-	bn ??	pink 1-2 2	-	1-2 P	-	"	1	-	-	5	
5 89-109	1/9	20	-	cpy >	-	2	1-2 P	-	fresh ch ser	1	-	-	5	
7 131-149	1/9	-	-	1?	-	-	"	-	fresh ch 20	1	-	-	5	
9 169-188	1/9	5	✓	cpy =bn none	-	2-3 2	1-2 2	-	fresh ch ser	1	-	✓	5	

- Rusty ser - cpy fr 0° chl - bn - cpy - ep fr 0-10°  
qtz - bn - cpy ± ser fr 30°
- altm level (1p) arg. 23
- calcite 10° qtz - chl<sup>bn</sup> ser (0°) cut qtz vein 1/16" w. pink halo  
cpy - bn - ep - qtz fr 20°, 35°; qtz - ep - ser (?) - bn fr. w. pink halo  
not flaky 58 (35°)
- "Fresh" to 85 then greenish altm (2) one peg. zone w.  
mg graphic zones + tour? 71. stunner?
- Rubblly + green altm to 91 chl - cpy fr 0°, 20°  
qtz - ep 40° calcite 35°
- Rubblly - between gougy zones rock is either  
pink (2) or arg (1-2)
- arg altm (3) on fr faces @ 35° ser - cpy 30°  
cpy - bn - tour (or bi?) 30° 143 qtz - ser - cpy fr 30°  
pink altm adj to zolite veins @ 35°
- sm. to 7 qtz - ep veins (25°) qtz - cpy - bn vein
- Gougy + d. gm altm 180 unward qtz - bn - cpy - och. hem. ep  
pink stunner 1/4" @ 20° qtz - cpy - bn - MoS<sub>2</sub> (20°)  
pink by qtz - chl - cpy - py veinlet  
chl - tour fr 0°, chl - ep - tour - cpy @ 20-30°

# HIGHLAND VALLEY DRILL LOG SHEET

Hole 68-27

Date July 16/73

Property HIGHMONT

W. J. McMillan

B.C. Dept. of Mines and Petroleum Resources

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. V. Bn.	Feldspar Alteration			Feld. Fresh	M. ofc.	M. fr	Qtz.-Ser. Zones	MoS <sub>2</sub>	Rock Type	Comments
					pink	grn	wh							
207-225	lg	5	-	✓	22	-	1-2 p	-	fresh chl	.5	20	-	5	
242-261	vlg	10	-	bn	-	ol. grn	1-2 l	-	chl (ser) (3)	1	-	-	5	
280-308	lg	5	-	✓	-	3 l	1-2 l	-	chl (2-3)	2	-	1/2	5	Some old zones
318-326	lg	10	-	bn	2l	-	1-2 p	-	fresh chl	1	-	✓	5	
353-371	lg	20	✓	✓	2l	-	2 p	-	fresh chl (2)	1	10	-	5	

10 Green alt. cuts out at 199 then rock arg (1-2p)  
some fr have int. arg alt. on faces

11 calcite 10° cpy-ser-tour? gtz @ 0° bn-chl 0°  
Tour-cal @ 50° w. pink halos (30° also) Tour pods (40°)  
gtz-cpy-bn w. pink alt. halo (20°); gtz-cpy (10°)  
Barren gtz pink halo @ 30° cut by bn-chl fr 10°  
gtz-ep (50°) fractures; tour-actin-ep @ 35°

12 aplites (1/2") 35°-cpy muszln - rock overall arg (1-2)

13 gtz-och-hem-cpy-bn veins gtz-ep-mos<sub>2</sub>-bn veins (25°)  
green actn after 244 ± epidote

14 green + pink alt. (2) Half the box is rubble

15 281-283 looks like chl. mafic of chatoway  
qtz-ep 450 ± tour. gtz-xlth cal-MoS<sub>2</sub> ± cpy ± ser

16 General greenish yell. alt. (2)

17 chl-ep 30° gtz-ep-mos<sub>2</sub>-bn with pink halo 30°  
chl-ep-bn 25° gtz-chl-bn 30°, 35° w. coarse tour blebs

18 like 17 gtz-bn-cpy 10° - gtz-ep-ser (?) 20°

19 calcite 0-20 cpy-bn-pyrite-ser fr 30° Tour-actin-bn pink  
gtz-Pink ser-bn-cpy pink halos 30° (up to 1/2 w. chl ser) halos 35°

# HIGHLAND VALLEY DRILL LOG SHEET

Hole 68-27

Date July 16/73

Property HIGHTMONT

W. J. McMillan

B.C. Dept. of Mines and Petroleum Resources

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. > Bn.	Feldspar Alteration			Feld. Fresh	in Qtz Fr.	min Fr.	Qtz-Ser. Zones	MoS <sub>2</sub>	Rock Type	Comments
					pink	grn	wh							
21 391-409	lg-5		-	Bn >	pk 2	gr 2	wh 1-2	2	fresh chl	.5	-	✓	5	
23 428-447	lg-10		perhaps a grain also	Bn >	ol. grn 2	yell grn 2-3	-	-	chl ser	.5	-	✓	5	I think
25 468-486	lg-			Bn? ?	-	yell grn 2-3	-	-	ser "fresh"	1	-	-	5	
27 507-523 576-593	lg 5			Bn? ?	see below also	olive to yell green 1-2	to yell to 5/9	-	fresh chl ser	.7	7	-	5	
29 547-570	lg 7			Bn >	pink 2-3	ol. grn 2	yell. grn 2-3	-	ser (23)	.5	10	✓	5	

20 overall arg (1-2) local (toward end of hole) pink + green (2)

21 Qtz - ep - MoS<sub>2</sub> pink adj. to Qtz veins, chl fr 30°  
MoS<sub>2</sub> - ser fr 35°

22 Greenish yell altn (2) after - 425

23 Qtz - MoS<sub>2</sub> - och. len 30° ser - bn fr 30° cpy - ser 30°  
tour - bn 70° MoS<sub>2</sub> fr 35° 440

24 Gouge - the few rock frags are alt. yell grn (3)

25 altn yell grn 2-3 to 472 then less intense  
"Fresh" biotite may be reconstituted  
Qtz veinlet (20°) w. pinkish cream halo (1/8")  
ser - Qtz - bn fr 20° chl - ep cpy 35°  
(not flaky)

26 altn (1-2 pergillic) typical tho. ol. grn occurs locally  
apite/peg. stungers 35°

27 519 onward arg altn (1-2p) Tour-ep veins 35°  
Qtz veins with ser. halo ep - bn knots (0°) has pink then loc. flaky

28 arg (1-2) to 540 then ~~alt~~ grn (1-2p) chl - bn fr 30° ser. halo  
Qtz - bn - cpy veins 548  
Qtz - ep - bn with cpy alt to vein (30°)

29 Qtz - ser - bn - cpy 30° ser - bn fr 30° Qtz - ser vein w. pinky cream halo  
ser - cpy 20° = MoS<sub>2</sub> Tour Qtz bn 30° with pink altn zone assoc cpy stungers 35°

1M-572-3322

# HIGHLAND VALLEY DRILL LOG SHEET

Hole 68-27

Date July 16/73

Property HIGHMONT

W. J. McMillan

B.C. Dept. of Mines and Petroleum Resources

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. > Bn.	Feldspar Alteration		Feld. Fresh	m fcs	m fr	Qtz-Ser. Zones	MoS <sub>2</sub>	Rock Type	Comments	
31 373-614	vlq lg	7	-	Bn >	pink 2l	yell 3p	-	-	ser (3)	2	-	✓	5	I think
33 636-669	vlq	7	-	Bn >	see below					1	10	-	5	
35 682-704	vlq	7	-	Bn ?	see below			ser chl	2	-	✓	5?		
37 729-750 (EDH)	lg	7	-	cpy >	yellow green	+ yell. altn		ser	2	-	✓	5?		enkeleolopy qtz suggest NOT DYKED

30 mainly orangy-yell altn (2-3) some green (2-3) tour present

31 qtz - mos<sub>2</sub> (in slips) at 45°  
bn-ser fr 35°  
qtz - och-hem - bn 40°  
(some)

32 Similar intense yell + pinkish altn - C.R. 5 (?)

33 Rusty + yell altn to 649 then ceases off to green  
(1-2p) Mafic → ser to 649 then chl (3)  
calcite 10°  
qtz - och hem 30° in yell zone  
qtz - ser - bn 35°  
qtz - tour 35°

34 altn mild, a nondescript gray-green color (1-2p)  
a short gray zone has assoc pink altn  
at 664  
lovely qtz - bn vein w. ser halo 30°  
Tour present

35 mixed yellow + gray green altn (2) Bn-chl fr. 30°  
och. hem. (low + med fr) low veins

① qtz - och hem - tour (?) 20° ② qtz - ep - MoS<sub>2</sub> (25°) A cuts B I  
I think

36 Still 5 C.R. Ab at altn is yellow (2-3p) 690 think

1M-572-3322 cpy-ser fr 35°

37 Rubby near EDH  
ocherous hem on fr. (lots)  
qtz - MoS<sub>2</sub> 35° qtz - cpy some MoS<sub>2</sub>, bn w.  
pink halo + cpy dissem. in halo

# HIGHLAND VALLEY DRILL LOG SHEET

105,100

Hole 68-52

Date July 16/73

Property HIGHMONT

Now cloudy + coolish

W. J. McMillan 45:30

B.C. Dept. of Mines and Petroleum Resources

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. V. Bn.	Feldspar Alteration			Feld. Fresh	Chl. fr	Mn. fr	Qtz. Ser. Zones	MoS <sub>2</sub>	Rock Type	Comments
					pink	grn	wh							
1 17-36	19-	10	-	cpy ≥	-	-	1-2 P	-	fresh dill	1	10	-	5	
2 36-56	19-	20	-	"	-	-	"	-	"	1	10	-	5	
3 -78	19	20	-	bn? ?	-	-	2 P	-	"	1	10	-	5+	74-75 Dike chilled edge
4 -95	19	-	-	?	pink + green		2P		chl	1/2	-	-	5+	cg centre
comments in 4 refer to CR only														

1 Chl - ep fr 10° Qtz - ser - bn - chrysocholla - rusty Qtz - ser - cpy vein (1/32") malachite 15°

Some fr. @ 0° have int. arg alt on faces ser - cpy - bn 10°

aplite stunner 20° cut by chl - bn fr (10°)

gtz - bn - ep 20° calcite 10°

2 v. sim. to 1 - perhaps more arg. alt on fr. faces

3 Rust, chrysocholla (rel common on fr. Border of dyke uneven, overall 35° ser fr at 0° common ep. fr. 30° gtz - bn - chrysocholla - mal + ser Qtz halo 10° 73

4 Dike - chilled edge (1/4") contact 70° ep coated fr in it at 10° (79-88) other contact has 1" bx zone

hole ends in fq chilled margin (?) of dyke 80

# HIGHLAND VALLEY DRILL LOG SHEET

Dyke? 460-530; 640  
 backward  
 105100

Hole 68-53

Date July 17/73

Sunny, Hot, nice breeze.

Property HIGHMONT

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B.C. Dept. of Mines and Petroleum Resources

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. V. Bn.	Feldspar Alteration			Feld. Fresh	m. f <sub>2</sub>	min f <sub>2</sub>	Qtz-Ser. Zones	MoS <sub>2</sub>	Rock Type	Comments
							wh							
19-42	lg-20	-	✓	-	-	1p	✓	fresh chln	2	2	-	5	oxide zone	
3 66-89	lg-20	-	=	-	-	1-2p	-	"	2	2	-	5	oxide zone	
5 118-129	lg 20	-	≥	-	-	1-2p	-	chl (2)	1	2	-	5	cusification	
7 149-170	lg 20	-	≤	-	-	2p	-	chl 2	1	2	-	5	"	
9 192-214	<i>next page</i>													

- 1 aplite steeper 35° cut by Qtz veins which are cut by cpy-gtz-ser veins (20°) the Qtz vein is virtually confined to + i. part of the dyke.  
 Qtz-ser-mal 30°      Qtz-ser-epy 10°
- 2 arg altn (1-2p) - continuing in oxide zone
- 3 Qtz-ser-chrysocolla - mal. ± bn 0-30°  
 Qtz-ser-epy - iron oxide 10°      chl-bi 0-10° 66  
 bn-chl fi. 30°
- 4 arg altn (2p) malic → chl (2)  
 chl, chrysocolla
- 5 Tour (~~sheaf~~) sheaf on fr face w. intense arg altn 30°  
 Qtz - rust-coated cpy, ser-gtz halo with mal, chrysocolla 10°  
 Qtz-ser ± cpy ± bn veins 20°, 30°      Calcite 30°  
 Qtz-chl ± ep ± bn 10° (ep. repl. nodules also near veins)  
 Tour veins, some ep altn of fi adj. to them 30°      chl fi 0-10°  
 Bi-ser-epy fi 20°      Qtz-ser-etc 20° cut by ? Qtz-magnetite-epidote 30° 127
- 6 like 5
- 7 Qtz-bn (alt. to chrysocolla) with ser-gtz halo + pink ch  
 alt. (tour sheaf in alt. c.s.) (sampled) Tour common  
 veins of yell-grn min. (epidote?)

1M-572-3322

# HIGHLAND VALLEY DRILL LOG SHEET

Hole 68-~~26~~<sup>53</sup> Date July 17/73

~~off section - so rapidly scanned~~

Property HIGHMONT

W. J. McMillan  
B.C. Dept. of Mines and Petroleum Resources

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. V. Bn.	Feldspar Alteration			Feld. Fresh	f <sub>2</sub> f <sub>1</sub>	m <sub>4</sub> f	Qtz-Ser. Zones	MoS <sub>2</sub>	Rock Type	Comments
					pink	grn	wh							
1 192-214	vlg	20	-	P	2l adj. to qtz-ser		2p	-	fresh chl	2	4	-	5	Copper silicates
11 237-259	vlg	-	-	✓	-	-	1-2 p	l	"	2	10	✓	5	"
13 280-301	lg	5	-	✓	-	l <sub>2</sub>	1-2 p	-	"	1	4	✓	5	
15 322-343														
17 364-386	not													

- 8 Intense arg altn on low f<sub>1</sub> faces overall 2p arg. white stunner w cpy mntzn rust + chrysocholla ser-cpy-bn fr 10° ser-chl-bn-cpy 30°
  - 9 209-214 chilled + eg D1 ser fr w rusty pods 10°, ~~bi-chl~~ bi-chl fr 30° gtz-ser-chrysocholla 10°
  - 10 arg altn on f<sub>1</sub> faces (low) arg 1-2p
  - 11 " " " " " - calcite on same faces qtz-ep 35° cuts ~~q~~ chl-ep 10° which cuts gtz-ser 10° bi-chl fr 20° 244
- sheared zone 254-257 has qtz veins w drusem intergrown cpy-MoS<sub>2</sub> - ~~alt~~ alt to chrys. + veins rusty in part (30°)
- 12 Gauge 277 - altn like 11 qtz-tour vein
  - 13 qtz-bn ser-gtz halos 10°, 35° gtz-ser-cpy-bn (0-20°) qtz-~~cpy~~bn-MoS<sub>2</sub> low & calcite 0-20° chl-cpy-bn fr 30° gtz-cpy-bn 30° chl-ser-cpy-bn fr 10° qtz-bn vein ~~of~~ MoS<sub>2</sub> e edges + in ep. clots 1M-572-3322 1M99Y gtz-bn 30° w assoc. ep. zones ~~cuts~~ gtz-ser-bn-chl vein (0°)

# HIGHLAND VALLEY DRILL LOG SHEET

Hole 68-53

Date July 17/73

Property HIGHMONT

W. J. McMillan

B.C. Dept. of Mines and Petroleum Resources

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. V. Bn.	Feldspar Alteration			Feld. Fresh	md. fr	min fr	Qtz-Ser. Zones	MoS <sub>2</sub>	Rock Type	Comments
					pink	grn	alk							
15 322-343	lg-10	-	✓?	-	12	1-2	P	✓	high chl ser (2)	2	5	-	5	
17 364-386	lg	10	-	<	-	12	P	l	fresh chl ser (2)	2	2 1/2	✓	5	
19 408-429	vlg	20	-	<?	-	1-2	P	l	fresh chl ser	2	5	-	5	
21 452-471	vlg	20	-	=?	-	ser below			"	2	5	-	5	
23 492-513	lg	10	-	<?	-	1-2	l	✓	fr	2	3	✓	5	+ Ap

14 arg altn (1-2p) mafic → chl (2) some malachite

15 gts - <sup>MoS<sub>2</sub></sup>cct 35° tour - gts 10° gts - ser - tour - ep - bn (0°)  
cpy in per. mafics malachite in gts-ser veins

16 qtz-ep-bn-chl 0° mild arg. altn iron oxide  
magfic → chl (2), fresh

17 Fractures rusty  
qtz vein 35° gts-ser-bn-MoS<sub>2</sub>-chrysocolla  
loc. very nice blebs

18 like 17

19 bn-chl fr 10° gts-ep 30° (1/2")  
gts-bn-chrysocolla-cct 10° 409 check mafic altn by T.S.

20 Dull green altn (2p) loc. gts-ep "zones." vlg

21 460-463 Mud

460 Fs altn dull gray-green 1-2p mafic → chl, ser (3)  
gts-chl-ser-ep-bn (0°) (V16")  
after 460 to altn pink + green (2p) NOT DYKE IN MY OPINION  
471 magfic → chl + ep Tour-chl 45°  
gts-cpy-bn-ser fr (0-20") Tour-ser-bn fr 10° gts-tour 30°

22 fs fresh → pale green (1-2) gts-ep clots + veins  
apelite - graphic granite stamper 30°  
T. or - chl - bn 30° - CR + apelite

23 472 with blebs of bn, stamper of MoS<sub>2</sub>, some cpy 474  
Mud 573 apelite 50° - 50°, 496-7, 495  
green ser (blaky) bn-cpy 0° gts-ser-bn 30° 70° cpx CR + apelite

1M-572-3322



# HIGHLAND VALLEY DRILL LOG SHEET

Hole 68-53

Date July 17/73

Property HIGHMONT

W. J. McMillan

B.C. Dept. of Mines and Petroleum Resources

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. > Bn.	Feldspar Alteration		Feld. Fresh	ma fc	mu fr	Qtz.-Ser. Zones	MoS <sub>2</sub>	Rock Type	Comments		
					gpm	wh									
534-535	vg	20	-	✓	-	2l	2-3	l	chl	3	2	5	-	5	
27 576-600	lg	7	-	<	pink + green	2p	-	-	chl	3	1	7	-	5	
29 622-641	vg	-	-	?	-	2l	1l	l	fresh chl	1	-	-	-	5	+ Dyke
31 661-681	lg	-	-	<	pink + green	2l	1l	l	fresh chl (ep.?)	1	10	-	-	5	Dyke stungers
33 700-722	next page														

24 white to green altn (1-2p)

25 aplite stungers 35° chl-cpy bn 30°  
 gts-ser-cpy-bn 10° 540 aplite cut by gts bn w.  
 some epidote present (35°) ser-gts halo (35°)

26 similar altn to 25 Tour fr 35°  
 och-hem or some low & fracture

27 593 Robbley 590 Mud Qtz-ser-bn (Low &?)  
 green flokey ser-bn fr 30° yell grn mu (ep?) fr 10°  
 gts-bn vein gts ser borders 20°  
 zone 1/4" wide permeated w. chl-ser-bn 30°

28 arg altn 1-2p aplite stungers

29 aplite 623, 624, 627-\*, 627-628, 632, 635 contacts 30-45°  
 640 on is a porphyry with c9 kb (chl) prop gts phenos  
 in an aplitic matrix (D12) → 641 chl-bi-bn fr 30°  
 gts-ep-chl-bn cuts chl + aplite 10° epidote? 35°

30 early part of box in + out of ppy - contact with chl 20°  
 to 644 then is 5c.r. with a few aplite stungers  
 altn green (2) gradually decreasing to grayish (1)

31 Porphyry (D12) 678, 666 tour-cp-gts 30°  
 ser-bn-cpy fr 10° gts-ser-chl-bn-ep veins 10°  
 bonanza Qtz-ep-bn veins chl ser halo

# HIGHLAND VALLEY DRILL LOG SHEET

Hole 68-53

Date July 17/73

Property HIGHMONT

W. J. McMillan

B.C. Dept. of Mines and Petroleum Resources

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. V. Bn.	Feldspar Alteration		Feld. Fresh	m of c	min f	Qtz. Ser. Zones	MoS <sub>2</sub>	Rock Type	Comments
33 700-722 <del>740-756</del>	lg	4	-	?	yellow wh → pinky cream 2-3 p		-	ser	?	-	✓ prim.	?	och. hem on fr. <del>ser</del>
35 (EOH) 740-756	g-	1	-	?			-		?	-	-	?	
<del>700-722</del>	<del>EOH</del>												

32 686 onward - Gauge altn like 31 to gauge zone  
post-quartz-ser-bn vein

33 Gauge to 720 with a <sup>couple</sup> ~~couple~~ of more massive zones  
dissem. Tour in pink altn zone

34 Loc. gauge zones och hem zones  
generally shattered, gtz veined, <sup>rusty</sup> yellow altered rock

35 quartz veins themselves <sup>cut by</sup> ~~are~~ black veins - mostly tour <sup>742</sup> but one was cct

— EOH —

# HIGHLAND VALLEY DRILL LOG SHEET

105,100

Hole 69-138

Date July 15/73

Property HIGHMONT

W. J. McMillan  
B.C. Dept. of Mines and Petroleum Resources

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. V. Bn.	Feldspar Alteration			Feld. Fresh	mag. fr.	min. fr.	Qtz.-Ser. Zones	MoS <sub>2</sub>	Rock Type	Comments
					plm	pln	wh							
2 38-59	lg	10	-	✓	-	1-2 P	-	-	chl 2p	0.2 10	✓	5		
4 84-110	lg	20	-	✓	l2	1-2 P	-	-	chl 2l	0.2 10	✓	5		
5 128-140	lg	10	+	✓	-	1-2 P	-	-	chl 1p 2b	0.2 20	✓	5		
7 162-184	vlg (cu)	5	-	?	dull olive green p2-3	-	-	-	ser 3p	2.	✓	5	possibly	
9 208-234	vlg	10	-	✓	olive green l2	2p	-	-	chl 3p	2.	✓	5		

1 16-37 1/8 16  
 Rel. fresh sk. lg - cpy > bn } MoS<sub>2</sub> slips 10°  
 2 calcite 45° qtz 35° qtz-ser-cpy 15°  
 cpy fr. 10°, 70° chl 0° cpy in chl mafic  
 loc. fr w. chl + sulphide 1/2" apart  
 3 Tour - chl - cpy pods calcite 0-30°  
 overall altn arg (1-2p) cpy - ser - MoS<sub>2</sub> at 0°  
 4 Qtz - tour - bn 70°  
 Qtz - MoS<sub>2</sub> cpy w. qtz - ser habits (25°) calcite 30°  
 cpy - bn - chl fr 10° ep - cpy - MoS<sub>2</sub> @ 25°  
 cpy - bi(?) 30°

\* There is no core from 110 → 128 \*

5 #131 fault w. chl-cemented gouge + MoS<sub>2</sub> on slip's  
 cpy - ser fr. 30° qtz - bn - cpy vein @ 30°  
 rock is rel fresh but has lots of mentzied fractures  
 aplite steeper @ 35° cut by ep - bn vein @ 30°  
 chl - py - cpy @ 10°  
 6 like 5 but sl. better grade I think 219

7 #171 Mud encountered; MoS<sub>2</sub> slips 0-30° qtz & MoS<sub>2</sub> - cpy  
 och hem on fr 0°

8 Green altn drops off after 190 arg altn (1-2p) chl (2p) after 190  
 9 qtz - MoS<sub>2</sub> - MoS<sub>2</sub> desconn + in shears; qtz - bn - cpy 10° in qtz altn

1M-572-3322

# HIGHLAND VALLEY DRILL LOG SHEET

Hole 69-138

Date July 15/73

$\frac{1}{2}$  fairly abundant

Property HIGHMONT

W. J. McMillan

B.C. Dept. of Mines and Petroleum Resources

Box Footage	Grade	Qz. Veins	Pyr.	Cpy. V. Bn.	Feldspar Alteration			Feld. Fresh	Mg fss	Min f	Qz-Ser. Zones	MoS <sub>2</sub>	Rock Type	Comments
							wh.							
11 256-278	19	5	✓	✓	pink + green 2p (half bot)	2p (last half)		chl ser ep chl 18		3	10	✓	5	nearly fresh at end of box
13 305-324	vlg	20	-	Bn? >	-	1-2 p	-	Fresh on chl		2	-	-	5	
15 369-391	19	5	-	Bn >	pink 2l	"	-	"		1	-	-	5	
17 391-418	vlg	-	-	?	see below			fresh chl ser		2	-	$\frac{1}{2}$	5	to 410 then not sure
19 444-467	vlg	5	-	Bn >	grn 2l	1-2 p	-	fresh chl (12)		2	-	$\frac{1}{2}$	5	

- 10 Some tour sheets on fr @ 45°  
some pink altn mafic → chl (2p) some arg. level 1-2 mafic → chl (1p)
- 11 calcite-och hem. 30° ep fr. 0°; qtz-ser-bn 0°  
qtz-ep-MoS<sub>2</sub> (75°) pink halos qtz-bn w ser halos 10°  
qtz-cpy (10°) #pyrite
- 12 Mild arg altn - vlg } chl-tour fr 10° pink halos
- 13 chl fr 25° calcite 10, 35° Bn-cpy-ser fr 25°
- 14 Sim. to 13 altn up slightly
- 15 Box stuck - the bit I can see is like 13
- 16 qtz veins w. ep-bn stampers in their cores (low g)  
383-385 then pink alt CR w. num. closely spaced ( $\frac{1}{2}$ " )  
qtz veins (carrying bn) + mixed fr. **385, 387**  
chl-ep tour structures 10° chl-cpy 0° qtz-ep 20°
- 17 fresh to 395 then pink to 416 then rusty tan (arg) to 418+  
MoS<sub>2</sub> slips @ 45° qtz-MoS<sub>2</sub> veins calcite 10° **418**
- 18 local bonan; a MoS<sub>2</sub>, overall mod to int.  
arg altn (oc green ser (2) vlg
- 19 1M-572-3322 qtz-MoS<sub>2</sub> pink halos (35°); chl-ep-cpy  
qtz-ep 40°; qtz-MoS<sub>2</sub> v 45°  
" " #MoS<sub>2</sub> 10°; qtz-MoS<sub>2</sub> #bn ; 462 Hole caved

# HIGHLAND VALLEY DRILL LOG SHEET

Hole 69-138

Date July 15/73

Property HIGHMONT

W. J. McMillan  
B.C. Dept. of Mines and Petroleum Resources

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. V. Bn.	Feldspar Alteration			Feld. Fresh	M qtz	M fr	Qtz. Ser. Zones	MoS <sub>2</sub>	Rock Type	Comments
					pink	gn	wh							
21 487-505	19-	7	-	Bn >?	-	often 500 2p	1-2p to 500	-	chl (1) ser. (5)	2	-	1/2	5	
23 534-550 (F0H)	19- <del>19</del>	15	-	Bn >?	-	2p	-	-	chl (1)	1	-	1/2	5	

20 st. arg altn

21 about 500 the altn picks up ochrom-  
qtz-ep 10° qtz-chl-bn 0° n calate 10° sheared  
qtz-ep-bn qtz-MoS<sub>2</sub> 20-30° (struc  
|| core)

22 by 514 the rock is red fresh again  
Hole caved at 522  
qtz-ep-bn-cpy vein 10° 523

23 qtz-ep (xls locally) - MoS<sub>2</sub> - ~~ep~~ - cpy 35° [zone rather than well  
cut by Bn-chl fr. 30° defined vein]

Thin pods + along fr w. chl (10°)

(F0H)

# HIGHLAND VALLEY DRILL LOG SHEET

105,100

Hole 69-178

Date July 14/73

544'

Property HIGHMONT

W. J. McMillan

B.C. Dept. of Mines and Petroleum Resources

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. > Bn.	Feldspar Alteration			Feld. Fresh	m of Fe	min Fr	Qtz.-Ser. Zones	MoS <sub>2</sub>	Rock Type	Comments
							wh							
8-28	vlg	-	-	Bh	-	-	1l	✓	chl 1l	chl 2	-	✓	5	
3 46-64	vlg	-	-	Cpy	-	-	1p	-	chl 2l	3	-	✓	5	
5 82-100	lg-10	-	-	Cpy	-	-	1l	✓	chl 2l	0-5	-	-	5	
7 119-143	vlg	-	-	?	sl. green 1-2	2	1-2	-	chl 1-2	1.0 60	-	-	5	color of act. like that at chataway + just as poor by ment 3d
9 166-190	lg-10	-	-	Cpy	-	-	1-2	-	chl 1-2	1	-	-	5	

- 1 aplite stringers 30°  
 MoSi - cpy - bn chl stringers (10-20°)  
 mal, <sup>iron oxide</sup> some fractures gts - ep - MoS<sub>2</sub> 20°
- 2 very fresh : vlg too
- 3 chl - cpy fr. 0° occasional pink peg. stringers 45°  
 gts - ep cpy veins @ 30° gts - MoSi - chl stringers 0°  
 47
- 4 very fresh : vlg
- 5 locally the rock is cut through with cpy + bn - with chl + after mafics 95  
 Tour veins (0°) cut gts - ep - bn veins (30°)  
 chl - Rpy ± gts stringers 20° calcite veins 10°
- 6 smaller core after 102 [BQ to here]  
 more altn + some pink altn ~~±~~ after 113
- 7 N/C
- 8 Fresher + better ment 3d after 150' (ment 3d fractures account for better grade Cpy ≥ Bn 158 ± bi. (Cp) 175
- 9 1M-572-3322  
 Bn - chl fr 70° Bn - cpy - chl fr 20°; 0°  
 gts - ep @ 35° aplite stringers 45° cut by gts ep <sup>chl</sup> (20°)

# HIGHLAND VALLEY DRILL LOG SHEET

Hole 69-178  
(90°)

Date July 14/73

Property Highmont

W. J. McMillan

B.C. Dept. of Mines and Petroleum Resources

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. V. Bn.	Feldspar Alteration			Feld. Fresh	Mg. Tc	Mn. Tc	Qtz.-Ser. Zones	MoS <sub>2</sub>	Rock Type	Comments
					pink	qm	sh							
1 212 - 234	lg-10		✓	✓	2l	-	2p	-	chl	3	-	-	5	
13 257-280	vlg	6/12	-	?	pinkish white 2-3		1-2 p	-	chl 2p	3	-	✓	5	
15 305-328	lg-20		✓	✓			after 310 2 p	-	chl ep 2p	1	-	-	5	
17 352-372	vlg		-	?			2pt 360 the 400 y gre ep	-	chl 3p	2	-	-	5	
19 400-424	vlg		-	?			2l 2p	-	chl 1-2 2p	10	-	-	5	

- 10 Rel fresh (arg 1-2p) rel. barren
- 11 gts-ep-cpy-pyrite vein 25° ser-chl-cpy fr @ 05°  
aplite stungers 30° peg stungers w. ep. borders 30°  
cpy-chl stungers w pink. Relos 40°
- 12 Sim. to 11 but more pink altn.
- 13 chl-ep (25°) on fr. chl-ep-MoS<sub>2</sub> slips 20°  
gts-ep-och. hem @ 0-20°
- 14 "Fresh"; a few gts-cpy stungers 15-20° bc arg level 3 on  
Overall vlg some fracture faces
- 15 "Fresh" to 310 then altered  
cpy in chl. mafic gts-pyrite-cpy stungers 10°  
0-20° cpy-ton-chl-ser coated fr. 312  
minor faulting subpar to core may acct for some of the altn
- 16 ~~olive green~~ to altn (2-3p) after 340 - NOT WELL MIN'L'Z'D  
OR LIKE CHATAWY
- 17 gts-ep veins 25°
- 18 380 onward cream or green altn 2p, poorly mineralized
- 19 420-422 Gouge calcite 0°  
gts-ep veins 10° some ep. after A in green altn zones

# HIGHLAND VALLEY DRILL LOG SHEET

Hole 69-178

Date July 14/73

Property HIGHMONT

W. J. McMillan

B.C. Dept. of Mines and Petroleum Resources

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. V. Bn.	Feldspar Alteration			Feld. Fresh	m <sub>afic</sub>	m <sub>in</sub>	Qtz.-Ser. Zones	MoS <sub>2</sub>	Rock Type	Comments
					gran	crs	wh							
21 448-472	lg	10	-	Bn >	-	2l	1l	-	chl 2p	1	-	-	5	
23 495-519	vlg	20	-	Bn ?	pink + green 1-2 to th 2p	505		-	chl-ep 505 ser	5	-	-	5	
24 519-544 EoH?														
19 -														
18 -														

20 moderate pink + green altn

21 chl - ep fr @ 10°    bn fr (slips) 10°    calcite 10°  
 sweet qtz-ep - veins w. bn pods - 45°  
 (some cct after bn)

22 Sim. to <sup>21</sup> but vlg.

23 calcite stockwork for 6" @ 516

24 519 → 544 apparently EoH.  
 pervasive mild arg. altn (labelled white in this logging)  
 mafic → chl    qtz-ep veins (propylitic zone)  
 vlg    EoH —



# HIGHLAND VALLEY DRILL LOG SHEET

105,100

Hole 69-179  
(798' long)

Date July 15 1973

Property Hydromet

Sunny, warm  
W. J. McMillan NICE

B.C. Dept. of Mines and Petroleum Resources

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. V. Bn.	Feldspar Alteration			Feld. Fresh	m gfc	min f	Qtz-Ser. Zones	MoS <sub>2</sub>	Rock Type	Comments
					pink	grn	wh							
31-46	vlg	7	-	B <sub>1</sub> >	l2	-	p1	√	chl 2l	chl 1	-	-	5	gray-looking rock
64-88	lg-10	10	-	cpy >	cream l2	l2	l1	-	chl 2p	.5	10	-	5	+aplite
112-135	vlg	10	-	cpy? >	not kspn l2	l2	l1-2	l	chl 2l	.7	10	-	5	+aplite/peg
156-180	lg-10	10	-	chl? B <sub>1</sub> ?	cream l1-l	l1-2	l1-2	l	chl 2l	.2	5	-	5	
200-224	vlg	10	-	? l1-2	cream l2	l2	lp	√	chl 1-2p	.5	7	√	5	

1 chl - bn - cpy fr 0° barren gtz 30°  
 chl-ep fr 45° w. pink altn halo  
 2 some arg<sup>(45°)</sup> + ser<sup>(30°)</sup> altn along fr. rust + mal on fr.  
 Pervasive moderate pink altn after 55'  
 3 aplite stringers + gtz veins w. dissem bn > cpy @ 45°  
 seven aplite stringers @ 30° to core - gtz veined, texture.  
 aplite w. fq graphite zones; cpy-ser stringers @ 20°; gtz-epidate veins  
 chl-epy fr @ 0°, 35° local pink zones ady to gtz veins are kspn?  
 4 arg altn on fr 20° Rust on fr continues  
 5 gtz-ser vein with mal + chrysocolla; cpy-bn after mafics  
 peg. stringers with aplite bouders (4 of them, contacts low & ?) have  
 - ser. fr @ 30° cpy-bn fr. @ 70° ep. fr 35° gtz veins  
 green altn halos (level 2) along some joints (35°) + gtz-chl blebs  
 6 missing vlg one nice to armaline vein 136  
 7 Ep fr. 0° ser-chl-epy fr 0° chl 45° gtz-ser ± chryso-  
 colla 0°  
 gtz stringer (10') mantled by bi(?) cuts barren gtz (45°)  
 locally the gtz-ser veins have bn w. some cpy blebs + veins  
 white arg altn along fr. 0°  
 8 vlg again 159, 172  
 9 1M-572-3322 gtz-feldspar (kspn?) veins 35° gtz-ep 30° - both cut  
 gtz-ser zones @ 0° Tour - chl fr 0°, 30° have black halos  
 ser-ep-four fr 0°

# HIGHLAND VALLEY DRILL LOG SHEET

Hole 69-179

Date July 15/73

Property HIGHMONT

W. J. McMillan

B.C. Dept. of Mines and Petroleum Resources

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. V. Bn.	Feldspar Alteration			Feld. Fresh	mg %	min. fr.	Qtz.-Ser. Zones	MoS <sub>2</sub>	Rock Type	Comments
					cream	grn	ash							
10 246-270	vlg	5	-	Bn >?	cream + green 1-2 l		1-2 l	-	chl lp	.5	10	-	5	
12 295-317	vlg	10	-	=?	" fracts		-	l	chl 1-2 l	.5	-	-	5	
14 340-368	vlg	-	-	?	pink 2 l		-	l	" CR 2 l chl	1"	-	-	D1 5	
16 390-412	vlg	20	-	Bn?	cream + green 1-2 p		-	-	chl 2 l	.5	-	-	5	
18 436-460	vlg	gtz-ep 10	-	Bn =	" "	"	"	-	ser 3 l chl 3 l	.7	copy 10	-	5	sch. hem on fracts locally

9 Second box labelled 9 in error in part - gtz veins w. ser helps  
 Tan gtz ep chrysocolla 0°; gtz-ep 70° gtz-ser 0° vlg

10 calcite 35° gtz-ep 45° offset by gtz-chl fr. 0°  
 gtz-ser - bn (10°) cut by gtz-chl (30°) intense arg altm. ady.  
 gtz-ep-chl @ 10° to some fr. 0°  
 locally plag → ep.

11 Still rusty fr. & iron oxide in gtz-ser-epy veins (0°)

12 chrysocolla - chl fr 10° cuts barren gtz at 45°  
 chl - bn fr. 10° ep + cal on fr 20°, 30° chl - epy @ 10°  
 loc chl fr @ 30° are 1" apart

13 335 → 360 Tan gtz plag ppy - aphanitic gldmass  
 phenos get bigger, smaller again to <sup>coarser to</sup> ~~finer~~  
 contact not seen then finer (D1)  
 CR is pink to 366 then gray again to 360  
 Dyke fresh on mild arg altm 343, 359, 365

15 Goage 389 General cream or green altm (level 2) 446  
 mafic → chl olivine green - ser - mafic → ser  
 gtz-ser zones 0° rusty fractures 0° → 35°  
 Barren gtz veins  
 ep fr 0-20°, calcite 30° cpy. bn slips in dyke  
 and c. r. (Dyke contact 35°) - Disturber - dissem. cpy, bn  
 bn-ep veins 10°

16 1M-572-3322

17 mod pink + green alt  
rusty fr; several gl- ser zones @ 35°

18

# HIGHLAND VALLEY DRILL LOG SHEET

Hole 69-179

Date July 15/73

Property HIGHMONT

W. J. McMillan

B.C. Dept. of Mines and Petroleum Resources

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. > Bn.	Feldspar Alteration			Feld. Fresh	M <sub>9</sub> fr	M <sub>14</sub> fr	Qtz.-Ser. Zones	MoS <sub>2</sub>	Rock Type	Comments
20 484 - 506	lg	3	-	Bn >	yellow 2-3 p	-	-	chl 3p ser	-	-	✓	5	gtz enlarged chl. looks rather pale green	
22 550 - 555	vlg	3	-	Bn >	yellow 2-3 p	-	-	ser 3p	10	-	✓	5	probably	
24 583 - 606	lg	3	-	=?	pink green 1-2 l	wh 1-2 fl	l	chl 2p	.5	-	-	5		
26 628 - 650	lg	10	-	Bn >	green 1-2	l 1-2	l	chl 2l	.5	-	-	5		
28 680 - 700	lg	5	-	Bn >	pink + green 1-2 (1/2 bar)	l 1	l	chl 2p	.5	5	-	5		

19 Epidote-Kspen veins thin gouge 461-466 - calcite vein<sup>ca</sup>  
in gouge zone. Kfessner actn slight albic → chl(2p)

20 gts - bn - tour 30° gts - bn - cpy - MoS<sub>2</sub> 10°  
gts - ep. veins 30° barren gts vein 45°

21 yell act 3p 530 gts - od hem vein cut by barren fr

22 gts - bn - MoS<sub>2</sub> (MoS<sub>2</sub> in slips) cut by barren  
gtz - main vein shattered - looking  
ser fr @ 450

23 alt has eased off gts - ep vein 20° mpec → chl  
(2p)

24 chl - ep fr 10° ser - cpy - bn fr 20°  
gts - ep veins 45° gts - bn veins w. bi stinger + pockets (90°)

od hem in gouge; chl - cpy - bn fr 05° spec - ep - bn vein (90°)

25 all but 5' missing that 5' has gts - bn veins +  
fence CR altn (level 2)

26 chl - ser - bn fr 80° chl - ep - bn 10° ep. fr. 10°  
occasional tour - ser?  
del? - epidote clots 633

27 occasional gtz ser zones; more pink altn (2)

1M-572-3322

28 chl - ep - bn - may? fr 25°  
gtz w. ~~dissem cpy - bn~~ (0) cut by gts - an - cpy veins (30°)

# HIGHLAND VALLEY DRILL LOG SHEET

Hole 69-179

Date July 15/73

Property HIGHMONT

W. J. McMillan

B.C. Dept. of Mines and Petroleum Resources

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. V. Bn.	Feldspar Alteration			Feld. Fresh	Mg/Fe	Mn/Fe	Qtz.-Ser. Zones	MoS <sub>2</sub>	Rock Type	Comments
30 730-757	vlg ?		all	gauge										
32 780-798 (FOK)	vlg 10	10	-	?	yellow 2-3p		chl ser sp		?		-	-	?	possibly bleached 5

29 716 onward - gauge  
 up to then it is like 28  
 710 - 716 ~~bed~~ dyke fragments -  
 some frags @ 720 look like c.r.

30, 31 Gauge fs yell. altn <sup>mg/c</sup> ~~sd~~ → ser  
 c.r. Dyke or bleached Skeena

32 Gauge to 788 then rock closely fractured  
 + fs. filled by och hem.

Not sure but think cr is bleached 5  
 with gfs enlarged as a result of altn.

— EOH —

# HIGHLAND VALLEY DRILL LOG SHEET

105,100

Hole 69-181

Date July 8/72

Property HIGHMONT

(-45°)  
(629' long)

W. J. McMillan

B.C. Dept. of Mines and Petroleum Resources

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. V. Bn.	Feldspar Alteration			Feld. Fresh	mafic → chl	min. fr.	Qtz-Ser. Zones	MoS <sub>2</sub>	Rock Type	Comments
					cr	mg	wh							
1 9-24 oxide zone	lg-	N <sub>L</sub>	-	yes	-	local	✓	✓	1	chl- py	P	-	5	almost 4 in places
2 -40 oxide zone	lg-	N <sub>L</sub>	-	?	-	local	✓	✓	1	-	P	-	5	
3 57 oxide zone	vlg	N <sub>L</sub>	-	?	-	local	-	✓	1 2	2 ser.	2?	-	5	
4 -75 oxide	vlg	20	-	Bn Op	-	-	1	✓	1 2	3	5?	-	5	
5 -99 oxide	vlg	N <sub>L</sub>	-	Bn ?	-	-	1	✓	1	2	4	-	5	

1 Qtz - <sup>flakey</sup>ser - chrysocolla veins @ low & to core  
 halos + inside vein  
 black mineral on fnts - khalcocite?  
 Qtz - ep veins - low & (10') to core  
 mafic fresh or sl. chl.  
 Qtz - ser. zones are low & - they seem to be  
 numerous but not pure

2 Foln @ 40° to core - well developed  
 Local cream altn adj to fractures containing  
 tour? bi? which cut Qtz - ser veins  
 Qtz - ser. "veins" are <sup>u.</sup>  $\frac{1}{4}$ " wide <sup>but up to 1" (vuggy)</sup> & at least locally occur  
 "1" apart - at  $\frac{1}{2}$  10° to core 24 sample

3 Qtz - ser - ep - chrysocolla veins subparallel to core  
 ± chl ± ep  
 ser. slips @ low & to core - some have orange iron  
 oxide

4 ep. rosettes on some fract. @ 30° to core  
 "aphte" stinger - pink, granophytic text., grad'n'l borders  
 Tourmaline xts in clots - radiating xts 30° to core  
 Qtz - cpy - bn vein @ 20° to core

5 Qtz - ser - bn veins subparallel to core  
 calate in fractures

# HIGHLAND VALLEY DRILL LOG SHEET

Hole 69-181

Date July 8/72

Property HIGHMONT

W. J. McMillan  
B.C. Dept. of Mines and Petroleum Resources

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. V. Bn.	Feldspar Alteration			Feld. Fresh	Mfic → cl	Mm Ar	Qtz-Ser. Zones	MoS <sub>2</sub>	Rock Type	Comments
					crm	gm	wh							
6) oxide 99-118	lg	NIL	-	Equal ?	local 1-2	1	-	✓	2	1	5	-	5	
7) -140	lg	20	-	pp ?	local 1	1-2	-	-	1-2	1(?)	10	-	5	
8) -164	lg	NIL	-	Bn >	1	1	1	-	1	1(?)	7	-	5	
9) -186	lg	MoS <sub>2</sub> etc. 20	-	Bn >	-	2- 3	-	-	2+ ser.	den- sity ?	N <sub>1</sub> L	P	5	altera- tion is
10) -207	lg	20	-	Bn >	-	2	-	-	3	?	N <sub>1</sub> L	-	5	grad. obliterating texture

- ⑥ Rust on fractures steel  
 Qtz<sup>chl</sup>-ser - bn on slips & 20 veins 10°, 30° to core  
 Qtz - ser - chrysocolla - low to core  
 Pink altn 112 → Qtz - ser - cpy @ 0° to core slip face
- ⑦ Fracts 0, 20°  
 calcite, sericite - mal  
 local ep on fracts with salmon pink altn  
 3-½" aplite stringers with bn in vugs 30°  
 spacing of mineralized fracts uncertain - low to core
- ⑧ Qtz - ser (halos) - bn - cpy veins 11 to core  
 3 more aplites - one cut by Qtz - bn vein  
 with flaky ser. halo  
 Tourmaline to serite  
 Sample 156  
 192
- ⑨ Gaugy 175 - 182 & uncertain
- 181.6 Qtz - mos<sub>2</sub> - bn - cpy vein; bn in act. mafic
- ⑩ calcite veins fill cracks  
 Rust on fractures  
 quartz added, rock texture gone locally  
 chl - bn - cpy on slips  
 Bn - cpy disseminated in altered rock

# HIGHLAND VALLEY DRILL LOG SHEET

Hole 69-181

Date July 8/72

(13 onward July 14 (73))

Property HIGHMONT

W. J. McMillan

B.C. Dept. of Mines and Petroleum Resources

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. V. Bn.	Feldspar Alteration			Feld. Fresh	mgic ser. chl	lim fr.	Qtz-Ser. Zones	MoS <sub>2</sub>	Rock Type	Comments
					crm	gn	wh							
11   207 -229	lg	5	-	Bn >	local 2	general 2-3	-	-	ser. 3 not chl.	?	-	-	5	recogniz- able locally
12   -252	lg	5	-	Bn >	-	2- 3p	-	-	3 chl +ser	?	-	-	5	"
13   -278	lg	4	-	Bn >	2l	dull yell gn 2-3p	-	-	3 chl ser(?)	-	5	-	5?	large anh. qtz
14   -298	lg-20	-	-	Bn >	pink 2l	2p	-	-	2-3 ser chl	-	5	-	5	locally recogniz.
15   -320	lg	NIL	-	Bn >	←2p→	-	-	-	3 chl ser(?)	-	3	-	5	local qtz aplite

- ⑪ green altn on cracks and <sup>green or locally</sup> overall <sup>pinkish cream</sup> pinkish cream  
 gts - bn - cpy vein - 30° to core  
 Bn, cpy disseminated in altered zones  
 gts - ep vein 40° to core  
 Qtz - bn
- ⑫ Veins @ 0, 30° to core have dk pink altn rims with dissemin bn  
 235-240 Gaugy & rusty fractures  
 Qtz vein w. Bn core @ 30° to core Sample  
 Minlzd Fracts ≈ 1' apart in less alt. zones 230  
242
- ⑬ gts - bn <sup>0-10°</sup>, some with <sup>flaky</sup> gts - ser halos <sup>3/8" wide</sup>  
 chl - cpy veins 50° cpy in mafics locally  
 gts - ser. loc. independent in cream altn zones
- ⑭ Tour (radiating clusters) on fr (10°)  
 gts - bn veins (0-10°) ± ser. gts <sup>flaky</sup> <sup>halos</sup> Tour - Qtz - bn veins  
 occas. aplite stringers - grad'n'l contacts, scattered  
 large splashed gts x15  
 local secondary "reconstituted" biotite 290, 297
- ⑮ aplite stringers cut by gts - bn veins sub-graphic  
 loc. eq gts phenos; texture variable aplite → granophyric  
 gts - ser - bn zones calute 45°  
313



# HIGHLAND VALLEY DRILL LOG SHEET

Hole 69-181

Date July 14/73

Sunny, warm  
not many bugs - NICE

Property HIGHMONT

W. J. McMillan

B.C. Dept. of Mines and Petroleum Resources

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. > Bn.	Feldspar Alteration			Feld. Fresh	mgfic chl	mu fr.	Qtz.-Ser. Zones	MoS <sub>2</sub>	Rock Type	Comments
					Pink	grn	wh							
16 320 - 343	lg-	20	-	Bn >	pink + grn 2p				2p	chl ser bn <sup>5</sup>	10	-	5	local grt aplite
17 - 363	lgt	10	-	Bn >	great pink 1-2 p			loc.	2l	ser chl ep <sub>2</sub>	3	-	5	-
18 - 380	lg-	NIL	-	Bn sl->	2l 1-2 p			loc.	2p	"	10	-	5	loc zones (dykes?) have eq grt eyes
19 - 401	lg	10	-	Bn >	1p			loc	1-2 p	chl bn 5	10	-	5	loc. aplite
20 - 423	lg	10	-	Bn >	cream + grn 2p				or ser 3	tour bn mos <sub>2</sub> 5	5	✓	5	at least in part

- 16 grt - bn (low angle) grt - ep - bn - cpy - chl veins 20°  
calcite 70°  
aplite w. grt - flaky ser zones + epidote - och. hem. peds  
locally large square grt eyes <sup>occur in</sup> ~~aplite~~ aplite stingers (border  
vague) Tourmaline on fr. @ 30°  
Half of Box 16 is fairly rabby)
- 17 Rock becoming discouragingly fresh + gray  
grt - ser - bn 0° ep fr 10° ser - chl 45°  
grade not meaningful - hole parallels veins 353
- 18 calcite 0° - - - - - Bn - chl 10° - - - chl <sup>cpy</sup> - bn on fr. (15°)  
Local "aplite" zones w eq grt eyes have bn - tour -  
grt occurs (4) + grt - ser - chl - bn veins (0°) + grt - ep - cpy veins (10°)  
may simply be euhedral second. grt on slt  
373
- 19 aplite stingers 45° grt - ser - bn 10°  
grt - bn ~~0°~~ 0° 4p - ser (chl?) 10° 381  
grt - bn w. flaky ser - grt halos 10° chl - bn fr (10°)
- 20 Tour fr 45° grt - bn ≠ cpy w ser halos 10°  
grt - bn - MoS<sub>2</sub> fr 45°

# HIGHLAND VALLEY DRILL LOG SHEET

Hole 69-181

Date July 14/73

Property HIGHMONT

W. J. McMillan

B.C. Dept. of Mines and Petroleum Resources

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. > Bn.	Feldspar Alteration		Feld. Fresh	M <sup>+</sup> S <sub>2</sub> C	Min	Qtz. Ser. Zones	MoS <sub>2</sub>	Rock Type	Comments
21 423-447	lg-	10	-	Bn →	cream green 2p	x	-	chl ser 3	10 spec	3	✓	5	and aplite
22 -471	lg+	20	-	Bn →	yellow 2-3p		-	ser	10	1	-	?	* mainly 5 I think
23 -496	lg-	20	-	Bn →	orangy yellow 2-3p		-	ser	5	3	-	?	aplite w part bleached 5(?) w part
24 -517 <del>517</del>	lg	10	-	Bn →	" " 2p		-	"	2	3	-	D13	large sq. qtz fymatrix
25 535	lg-	20	-	Bn →	vell grn 1-2p		-	"	10	1.5	-	D13	

21 aplite stamper cut by qtz + ocl hem veins  
qtz-ser-br ± <sup>MoS<sub>2</sub></sup> 45°, 30° (mainly qtz-br veins w.  
qtz-ser halos; specularite as blebs along fr. (250°))

22 qtz-br w qtz-ser halos 20°

altm + veining reminds one of Valley Copper  
cpy + br smeared along ser. slips 453, 460

\* CHANGES TO DYKE AT 460 ACCORDING TO HMT LOGGING

23 472-480 Missing

qtz-br <sup>± qtz ± ocl (?)</sup> w ser halos  
trfuc scarce → ser

ser-br fr. 20°

24 qtz-ser-br 40°

508

gran size of ppy matrix aplite → lg  
may still be some bleached sh

25 Good leucocratic qtz plag ppy now

qtz-br-act w. qtz-ser halos 35°, 60°

# HIGHLAND VALLEY DRILL LOG SHEET

Hole 69-181

Date July 14/73

Property HIGHMONT

W. J. McMillan

B.C. Dept. of Mines and Petroleum Resources

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. V. Bn.	Feldspar Alteration			Feld. Fresh	mg%	mm fr	Qtz.-Ser. Zones	MoS <sub>2</sub>	Rock Type	Comments
26) 538-557	lg	20	-	Bn	wdky y dk grn	2p		-	ser	20	2	-	D13	a few % ser magic
27) -576	lg-ml		-	Bn		pk	blt		ser	5	5	-	D13	
28) 599	vlg	10	-	Bn	grn	"	"	-	ser	5	nil	-	D13	
29) 627	vlg				?								D13	or 6p
						E 0	H							

26 Half the box is rubble

gtz - cat - bluish min w Pakyses - gtz halos 25°  
 after ~~ser~~ berrite

546

27. 51m veins

30% of box is rubble

28 Local rubble

calcite 0°

gtz - br veins at 40°  
 och hem on fr 50°

29 Gravel

- E 0 H -

# HIGHLAND VALLEY DRILL LOG SHEET

105,100

Hole 70-235  
(6071 long)

Date July 8/72

Cloudy, windy, showers & sunny periods

Property HIGHMONT

W. J. McMillan

B.C. Dept. of Mines and Petroleum Resources

Box	Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. V. Bn.	Feldspar Alteration			Feld. Fresh	mafic chl.	Mintzd Fracts	Qtz-Ser. Zones	MoS <sub>2</sub>	Rock Type	Comments	
						yellow-cream	pink	white-chalky								
1	13-33	n/c	P	-	-	1								5?	Just a bit of rubble	
2	-42					same									some large square gtz - 6?	
3	-67					same									6p	
4	-92	n/c	7	-	NO only Bn	1	locally mag → gray color		1			P			6p	
5	115-138	vlg		-	NO Bn cpy	1			2	1' apart	0.4 45° to core	7			6p	fs gray to 127, cream to 133 then pinkish-cream

n/c = no comment  
p = present

7' apart

tourmaline rosettes on fractures  
mal, chrysocolla

Qtz-ser zones - flakey sericite à la Valley Cu  
Skeena with gtz enlarged? - gtz still anhedral

2 see above

3 The rock is Gnaised Mtn-style gtz ppy with square gtz + plag phenos in aplitic matrix locally chl. bi. books occur, elsewhere it is leucocratic

4 Poi → chl or fresh  
Bormite in gtz veins with flakey ser. halos partially altered to chrysocolla  
Some chl-coated fractures

6 Mintzd Fracts are chl-bn; cpy repl. mafic locally  
General - yellow-cream fs also pervasive but not intense

Rock is almost Bsd locally

1M-572-3322

mafic chl means mafic → chlorite  
level 1 locally level 2 mod. level 3 completely

# HIGHLAND VALLEY DRILL LOG SHEET

Hole 70-235

Date July 8/72

\* 6p ≡ D12, D13?

Property HIGHMONT

W. J. McMillan

B.C. Dept. of Mines and Petroleum Resources

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. > Bn.	Feldspar Alteration			Feld. Fresh	mafic → chl	Min. fr.	Qtz-Ser. Zones	MoS <sub>2</sub>	Rock Type	Comments
					cream	green	white							
5 ← 92-115	vlg	20	-	only Bn -NO	mainly gray chl or Bn fresh?			1	1'	apart	6	-	6p	grain size varies 20-40 CS locally
7 130-160	lg	4	-	almost equal Bn	1 → 2 local	1	(level 1)	2 and ser.	chl - Bn 1' apart		5	P	6p	-
8 -183	vlg	20	-	NO Bn	1/2 box 1 local	2	pink 1/2 box gray 1/2 box	2	same		10	-	6p	-
9 -205	lgt	5	-	NO Bn	-	1		2	same		2 1/2	-	6p	-
10 -230	lg	20	-	NO Bn	1	-	-	✓	2	same	2 1/2	-	6p	-

- 5 Chl - Bn on fractures, subpar. to core  
qtz-ser bn low & to core  
Bn on qtz low & to core
- 7 Vuggy qtz vein w. ser. halos has cpy > bn in vein  
alt. halo
- veins & mineralized fract 20° + less to core generally
- 8 some calcite veining
- some oxide-type mineral still in a slightly broken up zone
- veins & mineralized fract at low & to core
- Vuggy qtz - bn veins w. ser. halos
- 183-188
- 9 Pink alt. - chl - level 1 ; mafic → chl ≠ cp ≠ cpy  
veins qtz & Bn w. flaky ser. halos in the vein  
subpar up to 45° to core  
Tour. rosettes on some fractures
- 10 qtz - ser - bn 35° to core

samples  
70, 87, 106, 121,  
157, 205  
182, 210

Hg > 1% Hg - .5-1%

Lgt .4-.5

Lg .3

lg - .2

vlg < .2

\* qtz veins - NO ser. halos

\* Lumped with qtz-ser  
if have halos

# HIGHLAND VALLEY DRILL LOG SHEET

Hole 70-235

Date July 8/72

Property HIGHMONT

W. J. McMillan

B.C. Dept. of Mines and Petroleum Resources

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. > Bn.	Feldspar Alteration			Feld. Fresh	mafic > chl	min. fr.	Qtz. Ser. Zones	MoS <sub>2</sub>	Rock Type	Comments
					crn	grn	white							
11 230-252	lg-10		-	Bn >>	1	-	1	-	2	1	3	-	6p	-
12 -273	lg-10		-	Bn >>	1	-	1	-	2	1	5	-	6p	-
13 -295	vg	20	-	Bn >>	local	-	1	-	1	1	5	-	6p	slightly finer grained
14 -318	lg-10		-	Bn >>	-	1	<sup>3/8</sup> 323	-	1	1	7	p	6p	size of Qtz phenos varies
15 -342	vg	5?	-	Bn >>	1 2 in gouge	-	-	-	2	1? 11 to core	NIL ?	-	6p	altered text. changed locally

- 11 Bn-Qtz veins with permineralized halos but NOT flaky sericite. 30° to core  
Then Qtz-chl-bn veins  
Some ep w. chl on fractures
- 12 Barren Qtz 25° to core, flakey ser-Qtz-bn 20°  
white chalky gouge 24" at 263'  
white altn 270 →  
Bn in veins Cpy in mafics
- 13 chl-bn at low & 10° & less to core  
Qtz-bn-ser 30°-45° to core
- 14 slickensides on MoS<sub>2</sub> vein @ 0° to core go 11 to 323 → wk permineralized altn core axis  
chl-bn 30° to core 305-sample  
Ep. locally in ser. zone 317 "
- 15 Shear zone subparallel to core - whole box  
gougey-Qtz veins bxt'd, hem. in gouge locally  
calcite veins 11 to core mafics → ser, chl  
Patchy pinkish-cream altn & overgrowths on Qtz  
obscure rock type in places Ep. clots

# HIGHLAND VALLEY DRILL LOG SHEET

Hole 70-235

Date July 8/72

Property Highmont

W. J. McMillan

B.C. Dept. of Mines and Petroleum Resources

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. V. Bn.	Feldspar Alteration			Feld. Fresh	maf. → chl	Mm. Fr.	Qtz.-Ser. Zones	MoS <sub>2</sub>	Rock Type	Comments
					crn	grn	wh.							
16] 342-364	vlg	5	-	only bn	-	2	-	-	2	5	10	-	6p	almost barren
17] -387	vlg	5	-	?	-	2	-	-	no to ser	10	N <sub>2</sub> L	-	6p	"
18] -411	vlg	Qtz MoS <sub>2</sub> 3	-	?	2	2	-	-	"	10	N <sub>2</sub> L	P	6p	altn is confusing but Qtz phenos remain
19] -445	lg	Qtz MoS <sub>2</sub> 5	-	?	2→ 3	-	-	-	"	1 MoS <sub>2</sub>	N <sub>2</sub> L	P+	6p	at least in part
20] -475	lg	?	-	?	2→ 3	-	-	-	"	"	N <sub>2</sub> L	P+	6p	"

17] grn altn - is yellowy-green

Hem. veins + crack - fillings at 30-70° to core

sample

386

Gougy 384 → 386

subparallel to core?

396

458

18] mixed pinkish cream & green altn - level 2

Qtz - MoS<sub>2</sub> low & to core - dip varies

Qtz phenos may have been enlarged locally

19] pinkish cream altn throughout

Gougy - sand to gravel size 420 to 440 - low & to core in part?

Qtz - MoS<sub>2</sub> veins

some hematite on fract & in gouge

MoS<sub>2</sub> on slip faces 0, 50° to core

20] 458 - 467 Qtz - MoS<sub>2</sub> (?) - rich zone - even a few cpy specs

Alekhersides 45° to core axis, slip faces 20° to core

Gougy 445 to 471

# HIGHLAND VALLEY DRILL LOG SHEET

Hole 70-235

Date July 8/72

Property HIGHMONT

W. J. McMillan

B.C. Dept. of Mines and Petroleum Resources

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. V. Bn.	Feldspar Alteration			Feld. Fresh	min. fr.	Qtz.-Ser. Zones	MoS <sub>2</sub>	Rock Type	Comments	
					crn	grn	wh							
21) 475-498	lg	10?	-	?	2 → 3	local 2	-	-	mafic → ser	NIL ?	N L	P+	6p	not certain but probable
22) - 521	lg	2	-	Bn ≠ cpy	2 → 1	local 2	-	-	? or NIL	4" MoS <sub>2</sub>	N L	P+	6p	definitely 6p
23) - 545	vlg	10	-	Bn >	1 → 2	-	-	-	N H L	5' bn	N L	P	6p	-
24) - 567	vlg.	N L	-	-	1	local 1	-	✓ D12	→ ser 6p → chl D12	2' ser slips	N L	-	6p D12	Rock change at between 550' & 560'
25) - 588	lg	10	-	Bn ≠ cpy	pink 1 → 2	-	-	-	mafic → chl, ser	1	N L	-	D12	-

21 Hematite fract + veins 0, 50° to core - matrix of bx (tectonic) locally  
 Qtz - MoS<sub>2</sub> at 30, 50° to core - some are rather spectacular in 492-499  
 504-505  
Post-MoS<sub>2</sub> gouge 490-492  
 gray Qtz-eye "aplite" cuts Qtz-MoS<sub>2</sub> veins - bits 1/2 in - fills the vein sample 498  
 22 - Qtz - MoS<sub>2</sub> - bn <sup>≠ cpy</sup> veins, cpy on fract. face nearby  
 (0 to 30, 50° to core) sample 503  
 23 Hem veins 11 to core to 30° to core - abundant  
 occasional plag phenos alt. to green color  
 Mn-lzd fract 0° to core Qtz - Bn - MoS<sub>2</sub> 25° to core  
 Barren Qtz vein offset ~~by~~ by Qtz - Hem vein  
 24 Ocherous hem. on fract  
 Between 530+560 the rock acquires scattered mafics + a more definitely aplitic gndmass (D12) up to now has been D13?  
 562  
 25 Qtz - bn - hem veins - low & to core in pink altn zone  
 chl - spec - cpy - bn on slips, ser. slips, 30, 45° to core



# HIGHLAND VALLEY DRILL LOG SHEET

Hole 70-235

Date July 8/72

Property HIGHMONT

W. J. McMillan  
B.C. Dept. of Mines and Petroleum Resources

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. V. Bn.	Feldspar Alteration			Feld. Fresh	min. Fr.	Qtz.-Ser. Zones	MoS <sub>2</sub>	Rock Type	Comments
					pink	gm	wh						
26 588 - 609	vlg	NIL	-	?	1-2	1	1	✓	moder ch. ser.	2	NIL	-	D12 almost barren
----- 609 - EOH -----													

26 ep. on pink-stained slip faces. subparallel to core  
och. hem on fract's at low & to core  
calcite veining - low & to core  
some cpy in altered mafics

----- EOH -----

# HIGHLAND VALLEY DRILL LOG SHEET

105, 100

Hole 69-131

Date July 17/73

(-45°)  
off section - so rapidly scanned.

Property HIGHMONT

Sunny, warm  
am getting burned!

W. J. McMillan  
B.C. Dept. of Mines and Petroleum Resources

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. V. Bn.	Feldspar Alteration		Feld. Fresh	m of c	m of fr	Qtz. Ser. Zones	MoS <sub>2</sub>	Rock Type	Comments	
					pink	wh								
37-63	vlg	5	-	√?	-	-	1p to 50	l to 50	fr chl ser	5	-	√	5	
108-131	vlg	20	-	?	2	-	1-2 P	-	fr chl (2)	1	-	-	5	
178-201	vlg	-	√	rare	yell 2-3 2l	grn 2l	1-2 P	-	fr chl (2)	3	-	-	5	
250-272	vlg	-	√	new	pink 2l	grn 2l	1-2 P	-	"	3	-	-	5	
319-343	vlg	-	√	shear	3l	-	2p	-	chl (2)	3	-	-	5	aplite stumps

1 32-37 Boulders I think

2 after 50 wh → yellowish 2-3p loc. green (2) gts-ep vein w. assoc  
wh. pure alt 35° ser-cpy 60° gts-MoS<sub>2</sub> high &

3 Greenish alt (2p) 1 to 72 then arg (1-2p) vlg gts-MoS<sub>2</sub> 60°  
rubbly

4 zone w gts-cpy-bn bxt d + cemented by calcite 60°  
ser-cpy fr 45° overall arg 1-2 loc. pink (2) green (1-2)

5 ~~aplite~~ aplite stumps 35°, 60° gts-ep  
barren gts 30-45° - one has chl selvage may cut gts, ep

6 Gouge 148, 143, 152 elsewhere arg (1-2p) gts-pyr-cpy 60°  
vein

7 pink altn calcite 60° gts-cpy-bn 60° aplite stumps 45°  
loc zones green altn (2) mostly arg (1-2)

8 aplites 50°; gts-ser-cpy fr 10° w pale pink halos 180

9 Green altn (2) to 208 then arg (1-2p)

10 231-233 gouge + gts-ep-four vein @ 35° ep + pink altn in gouge

11 gts-chl-cpy some pyr. 50° gts-ep w bleached halos 20°  
chl-ep in pink altn zones ep loc repl plug in bleach area

12 arg (-2) to 278 then green (2) to 283 then ol green (3) to 288 280  
back to green + 290 then ends w. arg.  
gts-calcite veins common in ol green zone (30-50°)

13 gts, chl, cpy after mafic loc; overall 1-2 arg, loc pink (2)  
2+ ep vein 50° chl-cpy fr 35°

14 Shear at 328 has assoc pink altn  
gts-ep-chl (1/2") veins have bleach halos 30°

# HIGHLAND VALLEY DRILL LOG SHEET

105100

Hole 69-131

Date July 17/73

Property HIGHMONT

W. J. McMillan

B.C. Dept. of Mines and Petroleum Resources

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. > Bn.	Feldspar Alteration			Feld. Fresh	m ar flc	m h f	Qtz.-Ser. Zones	MoS <sub>2</sub>	Rock Type	Comments
					pink	grn	wh							
17 386-415	lg	20	✓	✓	1-2 P	-	1-2 L	-	chl #	.5 #	-	✓	5	
15 345-367	lg	10	✓	✓	2 L	-	1-2 P	-	chl #	.2	-	✓	5	
20 488-484	lg	10	-	✓	l 1-2	ol grn 23L	1-2 L	-	fr chl ser	1	-	-	5	
23 531-554	vlg	5 95% 2p	✓ Hot abund	✓	pink 2p after 546	yellow 2p 537	wh 1-2p between	-	ser chl	2 #	-	-	5	

17 arg (1-2p) <sup>chl-ep-pyr</sup> (loc pink (1-2)) <sup>ep-pyr. fr. 45°</sup> ~~BORES 15/16 GUNK~~  
 18 gtz-ep (2p) cuts <sup>gtz</sup> chl-pyrite (50°) pink 1-2p arg (white) 1-2  
 clayey white arg altn on some jnt faces 30°  
 15 calcite near 30° on gtz veins <sup>50°</sup> w blebs + stringers of  
 chl, ep + cpy along fractures  
 aplites 850 have chl-ep-bn fr zones in CR  
 have closely-spaced fr w. ~~out~~ blebs as shown  
 of chl-epy grade - lg  
 MoS<sub>2</sub> blebs in pink altn zone (blebs 350)  
 CR prop arg (1-2)  
 16 arg 1-2p, 3L (shears) pink 2L gtz-epy-ser  
 18"; 10"  
 19 General pink altn (1-2) gtz-ep veins ser-ep-epy  
 20 Qtz-ep-epy veins 50° fs ep. adj to fr 50°  
 ol. green altn in sheared area → fr @ 50° but may not be the zone  
 21 general arg 1-2 loc pink (2+3) adj to barren gtz  
 veins (high #)  
 22 initially " " → greenish 1-2 then yellow (2-3) w. some  
 lesser altered zones  
 23 gtz-ep-epy 50°, 70° calcite 0°  
 gtz-chl-epy-pyrite fr 50°

# HIGHLAND VALLEY DRILL LOG SHEET

105700

Hole 69-131

Date July 18/73

Property HIGHMONT

Sunny, warm  
a few blugs but overall  
W. J. McMillan nearly perfect

B.C. Dept. of Mines and Petroleum Resources

Box Footage	Grade	Oz. Veins	Pyr.	Cpy. V. Bn.	Feldspar Alteration			Feld. Fresh	Mafic	Mn	Qtz-Ser. Zones	MoS <sub>2</sub>	Rock Type	Comments
					pink	brn	gray							
25 579-603	vlg	10	✓	None SEEN	2l	1-2 l	1-2 l	-	chl ser	2	-	-	5	
28 650-672	vlg	10	-	✓	-	2l	wh 1-2 l	-	"	5	-	-	5	
31 710-742	lg	7	com pyr ✓	✓	-	yell. 3l	wh 1-2 p	✓	br chl ser	3	5	-	5	

- 24) overall grayish to altn 1-2p loc. creamy altn (2) esp near gouge zones  
Pyrite - chl veins 60°, 70°
- 25) Short sections of gouge at 579, 598  
pink altn assoc w gtz - chl - pyr. veins (45°)  
chl-gtz-pyr cut by gtz-ser fr (20°) - nearby mafics pyritized  
rusty w/tyg carbonate veins (30°) cct? gtz carbonate vein  
581 loc. cream altn. in green zone 60-60°
- 26) cpy-brn-cct-gtz stringers 50° overall arg 1-2p  
gtz-cpy-MoS<sub>2</sub> 60° with yellow-green altn
- 27) local cream altn near gtz-carb. veins w. assoc cpy-filled fr. 45-50° overall wh. arg (1-2p) locally is almost fresh in mafics not altered, plag. clear
- 28) "Fresh" to 653 then altered to green + rubbly  
chl-cpy-cct fr 350 gtz-ep-cpy veins 80°  
cpy in sericitized bi noted
- 29) altn gen. green (1-2) loc arg (1-2) loc. ~~pink~~ (2) altn to  
gtz-chl-cpy 350, ser-chl-cpy, gtz-cpy veins (50°) cpy >  
yell-creamy pink
- 30) General arg (1-2) wh + rusty w/tyg carbonate veins 350  
ap? - chl fr w. pink halos 10° chl-ep-cpy-brn 350 pinkish halos  
loc yell altn (2-3) w. gtz-cpy-MoS<sub>2</sub> veins 80°
- 31) 725-733 yell altn; chl-ser-cpy fr 350; chl-cpy-ep-cpy 350  
32) cpy 60° chl-spec-apy-cpy fr 350 carbonate-pyr. 60° cuts gtz-ser-cct 350

# HIGHLAND VALLEY DRILL LOG SHEET

Hole 69-131

Date July 18/73

Property HIGHMONT

W. J. McMillan

B.C. Dept. of Mines and Petroleum Resources

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. Bn.	Feldspar Alteration		Feld. Fresh	m fic	m f	Qtz.-Ser. Zones	MoS <sub>2</sub>	Rock Type	Comments	
						wh								
33 765-772 EDH	g-	-	✓	✓	-	-	1-2 p		fc m loc + ep	.3	-	-	5	

32 gts - MoS<sub>2</sub> - cpy (Bonanza - type) 70°  
 sporadic rubble zones to 760 then arg (1-2)  
 altn - prior to that altn pink + green - loc.  
 men f. 1/2" apart loc mafic → chl + ep

33 ~~gts~~ bigh<sub>3</sub> - Kspar pegmatitic vein (?) / dyke (?) 10°  
 pyr. - ser - ep - cpy f. 35° chl - cpy 35°  
 gts - ep - ppyte 35° w. pyr. in adj. mafics 767  
 — EDH —

HIGHMONT

Section 102,800 E

Plotted Feb/74

(plotted) 102,800  
**HIGHLAND VALLEY DRILL LOG SHEET**

Hole 69-145 Date Aug 7/73  
 (613') Sunny, warm, cooling breeze

Property HIGHMONT

W. J. McMillan

B.C. Dept. of Mines and Petroleum Resources

Box Footage	Grade	Qz. Veins	Pyr.	Cpy. V. Bn.	Feldspar Alteration			Feld. Fresh	m fres	m <sub>h</sub> fr	Qz. Ser. Zones	MoS <sub>2</sub>	Rock Type	Comments
					pink	grn	wh							
40-60	vlg	-	-	< ?	pl-2	pl-2	pl-2	-	fr ch	1	-	-	5	oxide
3 86-108	vlg	20	-	? DYK	grn pl-2	wh 1	yell wh 3	2	fr ch ep ch fr	5	-	-	?	zone DI
5 137-160	vlg	10	-	< ?	see below			-	fr ch fr	5	-	-	5	?
7 184-210	vlg	20	-	1?	-	o/gm 2-3p	yell wh pl-3	-	ser	-	-	✓	?	prob. 5

Some confusion here - 976 probably 16' deep

- 40-60 Rusty, mal fr.  
ch fr 60°, 45° qtz-ch-ep-brn vein 35°
- alt 1-2p to 82 then <sup>wh</sup> yell-<sub>1</sub> alt (3) mal, chryscolla rust.
- wh. bleached vuggy rock to 89 then porphyry (DI)  
qtz-ep veins in ppy w. bleed holes 50°, 20°, 45°  
(appx 1 each foot) Rusty zones
- gouge zones 124-130 rusty fractures  
- alt ppy (yell grn 2-3p) chrysoc. mal  
after 124 bleached yell-wh rock (3) 100 qtz-ep-  
MoS<sub>2</sub> zones. (which locally)
- Bleached wh. epid. rock (not DI?) to 140 +  
pink epidot. rock 147-150 - wh alt (2)  
between x wh (1) to fresh after 151  
lots of qtz-ep veins (45-50°); actin. - tour 20° fr;  
Tour sheafs zone w fr @ 35°; ch-ser-brn-opy fr (20°, 35°)
- Pink + green (2) to 170, wh (1-2) to 179 then green (2)
- qtz-MoS<sub>2</sub> fr 35° rust, cor fr 40° qtz-och. hem. 35° cut  
by calcite (45°)
- Like 7 to 211 then green wh pink (1-2) to 225 then a pink-ep zone  
fall by pink (2)

# HIGHLAND VALLEY DRILL LOG SHEET

Hole 69-145

Date Aug 7/73

Property HIGHMONT

W. J. McMillan

B.C. Dept. of Mines and Petroleum Resources

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. V. Bn.	Feldspar Alteration			Feld. Fresh	m. of frs	min fr	Qtz-Ser. Zones	MoS <sub>2</sub>	Rock Type	Comments
					pink	grn	wh							
234-257	vlg	-	-	<	2l	2l	.	↓	chl ser	3	-	-	5	(?)
280-305	lg	5	-	✓	-	-	grn-wh 2p	-	chl	1	5	✓	5	almost + QEBm
333-355	vlg	-	-	?	pink + green 1-2	grn 338	thin 1-2 p	l	fr chl	3	-	-	5	
377-400	lg	10	-	✓	1-2p	grn wh 2p	-	-	fr chl ser	1	20	✓	5	
423-451	lg-20	-	-	✓ close	ol. grn Dyke	2 in fresh	C.R. wh(2)	2	chl ser	0.7 CR + dyke	20	✓	5+D1	

9 Calcite vein 0° gtz-chl-bn 35°, 40°  
 gtz-tour-ep-och-hem. vein 35°  
 Bxtd, reheated carbonate-och-hem. veins

10 like 9 it has mixed mild to mod. wh, grn, pink altn

11 gtz-ep-MoS<sub>2</sub> veins 35° gtz-MoS<sub>2</sub> veins 35° (each way)  
 gtz-cpy-MoS<sub>2</sub>-bn vein 25° gtz-cpy veins w. ser  
 gtz-cpy talos chl-cpy fr 30° Tour-cpy-ser-gtz <sup>knpt</sup>

12 Rubbly @325 loc. green (1-2) loc. ol. grn (2) <sup>one</sup> ~~one~~ vuggy  
 off-white altn zone @331-332 331

13 Calcite vein 25° gtz-chl, gtz-ep fr 35° chl fr 40°  
 349 C.R.

14 White-greenish wh (1-2p) green (1-2)  
 chl-MoS<sub>2</sub>-cpy fr 50° chl-cpy 50° fr

15 cpy-chl fr 45° calcite(30°) vein cut gtz. och-hem. vein (50°)  
 chl frs. 35° ser-cpy-och-hem. fr (10°) gtz-MoS<sub>2</sub>-some cpy 45°  
 end of box - graphic granite w. gtz-MoS<sub>2</sub>-cpy-bn fr 35°, 45°

16 box stack Seems to be green altn 1-2 at begin + end  
 + green-ol grn 3 in middle

1M-572-3322

17 gtz-tour. veins (70°) cpy-bn-ser fr 40°, 10° in dyke chl fr 35° like  
 428 (45°) gtz-cpy-bn (cpy-qtz-MoS<sub>2</sub>) chl-cpy fr 20°, 45° (10°, 35° in dyke) gtz-  
 cpy fr 35°



# HIGHLAND VALLEY DRILL LOG SHEET

Hole 69-145

Date Aug 7/73

Property HIGHMONT

W. J. McMillan

B.C. Dept. of Mines and Petroleum Resources

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. V. Bn.	Feldspar Alteration		Feld. Fresh	M. of Fe	M. of Al	Qtz. Ser. Zones	MoS <sub>2</sub>	Rock Type	Comments
20 496-518 472-496	lg-	-	-	✓	pink + green (2) after	* wh 1 to 2 to 505	l 505	fr chl	2	20	✓	5	* salmon pink <del>at</del> 496-518
21 518-542	vlq	20	-	✓	ol grn 2-3 P	-	-	chl ser	2	-	✓	5	
23 566-591	vlq	10	-	<?	see below	-	-	fr chl ser	3	-	✓	5	
24 591-613	vlq	20	-	✓	pink P2	wh 1-2 P	-	fr chl	2	-	✓	5	
- EDH -													

18 D1 - wh (1p) to creamy-ten altn (2l) now crowded ppy; matrix vfg

19 couldn't get it out - box stuck some green(2) pink(2) in Siceena, Dyke mild altn contact somewhere around 480

20 chl-ep fr 30° bn-epy-chl fr 0° gtz-ser-epy-ochilhem. 496 altn  
gtz-chl vein 35° Vein w drossen gtz-ep-MoS<sub>2</sub> (35°) (35°)

21 Gauge 524-529 gtz-MoS<sub>2</sub> (bronzite vein)-epy 45°

22 Half pink + green (2) the middle section is wh (1-2) ep, tour present

23 Pink + green (2-3) to 580, wh 1-2 to fresh after 580  
Rubby 575 pink zeolite veins 30°  
gtz-MoS<sub>2</sub> fr (30°) + veins (40°) cut by barren gtz (50°) or  
Tour present, ep-fr 20° Calcite 25° each way  
bn-ser fr 50° chl fr 40° gtz-ep vein 35°

24 Sandy Gauge 611-612 The rest is wh (1-2)  
chl-epy-bn fr 50° gtz-MoS<sub>2</sub> vein 20°  
chl-bn fr 350 - EDH -

102,800

# HIGHLAND VALLEY DRILL LOG SHEET

Hole 68-16

Date Aug 8/73

Sunny, cumulus clouds, warm.

Property HIGHMONT

W. J. McMillan

B.C. Dept. of Mines and Petroleum Resources

Box Footage	Grade	Qz. Veins	Pyr.	Cpy. Bn.	Feldspar Alteration			Feld. Fresh	m. fac.	min. fr.	Qz.-Ser. Zones	MoS <sub>2</sub>	Rock Type	Comments
					pink	grn	wh							
1 14-35	vlq	-	-	?	-	-	1 (p)	✓	fr	7	-	-	5	gr phenos rusty, mal.
3 47-72	lg	20	-	<	-	1-2	1-2	✓	fr chl ser	2	-	-	5	
5 96-101	vlq			?	E	G	H							

1 16 C.R.

2 Min. fr 1 actn. tour mal chrysoo. rust  
 cpy bn pyrite Bn ≅ cpy 42 vein  
 gr cpy - chl - pyrite fr 30° qtz - tour - bn - ep -  
 chrysoo. 45°  
 white (p(3l) local fresh

3 cpy-chl fr 35° qtz-tour-ep-bn 45°  
 chl-epy-bn fr 0° Mud 581

4 mild altn continues except near gangy zones  
 where it is of gm. (2)

Goegy 73, 87-91 epidote 78 C.R.

5 of green altn continues to EOH

102,800

HIGHLAND VALLEY DRILL LOG SHEET

Hole 68-17

Date Aug 8/73

Scanned quickly to 219

Sunny, warm →  
Cloudy, cool

Property 1464 MONT

W. J. McMillan

B.C. Dept. of Mines and Petroleum Resources

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. > Bn.	Feldspar Alteration		Feld. Fresh	m % f.c.	min f	Qtz. Ser. Zones	MoS <sub>2</sub>	Rock Type	Comments
						ly							
17-46	vlq	-	✓	✓?	-	-	lp	1	fr chl	?	-	5	Rusty, malachete
3 51-77	vlq	-	-	✓?		grn 1-2p to after 58 58	-	chl	3	-	✓	5	Rusty chrysoc.
5 104-133	lq	5	-	~		green to pale green 2-3p	-	ser	?	-	✓	?	
7 156-178	lq	-	-	<		cream to green 1-2p	SR	chl	1	-	✓	5 D1	contact 173kz
9 203-219	vlq	-	-	~		green 1-2p	-	ser chl	5	-	✓	D1	bx at 219 → alt. 5

1 o/c may actually be at 28'

2 like 1

3 local bubbly zones

~~oxide~~ qtz - ep - tour (?) - MoS<sub>2</sub>  
vein 30° 52

4 cpy > bn Bn present altn green starts then gradually becomes 2  
generally Mud 89 Gauge 97-101, 103-  
101-103 pink (2-3)

5 mixed gouge + more massive zones  
epidote

107 altn

6 sort of tan-overtoned ol. green altn (2)  
gouge near box end

150

7 cpy present also, epidote  
174  
dyke cut by bn - big fr fillings also  
matrix pink aph., phenos act with or green (2)

8 altn variable - fresh → green (3) all porphyry  
cpy, bn, MoS<sub>2</sub>, present - 190

9 altn decreasing near 219 205 alt. dyke

HIGHLAND VALLEY DRILL LOG SHEET

Hole 68-17 Date Aug 8/73  
 751' long Sunny, cumulus clouds

Property HIGHMONT

W. J. McMillan  
 B.C. Dept. of Mines and Petroleum Resources

Box Footage	Grade	Qz. Veins	Pyr.	Cpy. V. Bn.	Feldspar Alteration		Feld. Fresh	m qz. fr	Mn fr	Qz-Ser. Zones	MoS <sub>2</sub>	Rock Type	Comments	
219-242	vlq	-	-	<	-	ol. grn 2-3 p	wh 2l	-	chl ser	2	-	-	5	to 240 then sim. ext. D10 to ?
258-280	lq	10	-	<	?	ol. grn 2-3 p pink 2c	wh 2l 1-2 l	-	chl ser	1	-	✓	5	
302-323 <del>323-344</del>	vlq	10	-	?	!	pink + green 2b	-	-	4	5	-	✓	5	
346-367	vlq	20	-	-	-	ol. grn to yell. grn 2-3 p	-	-	5	5	-	-	5	

First couple hundred feet missing - perhaps drilled from pc hole or something.

- calade 30° veins, gts - chl - bn - some cpy vein 25°, 0°  
 [chl - cpy = bn fr 35° chl - gts fr 25°  
 one is covering an ep-fr]
- D1 to 247 then pink alt skeena - level 2. Lots of ep.
- qtz<sup>mos<sub>2</sub></sup> cpy vein 40° gts - ep - MoS<sub>2</sub> fr 45° chl fr 50°  
 gts - ser (black vfr) MoS<sub>2</sub> - cpy fr 30°, 45° actin. fr 0, 30°  
 qtz - bn - MoS<sub>2</sub> vein 30°, 70°; Bvtd, reheated carbonate - och hem veins (80°) calade (15°) veins
- altm wh 1-2 (half), green 2-3 (half)
- cal. 35° cuts gts - och hem 35° gts - MoS<sub>2</sub> (re 50°) ep - MoS<sub>2</sub> fr 20°  
 gts - chl - ep - MoS<sub>2</sub> fr 40° gts - ep fr 40° ep - chl fr 30°
- Gougy 305-315 323-332
- Pink in gouge zones pink + green (mostly gln) (2) elsewhere
- Gougy throughout, esp 346-356  
 gts - och hem zones prominent - 35°; calade veins common in yellowish alt zone, ep fr 10° 363 altm  
 364-368 flakey ser rept rods in stockwork effect 364
- ol. green - yellowish ol. gln 2p Gougy 372-390-395

# HIGHLAND VALLEY DRILL LOG SHEET

Hole 68-17

Date Aug 8/73

Property Highmont

W. J. McMillan

B.C. Dept. of Mines and Petroleum Resources

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. V. Bn.	Feldspar Alteration		Feld. Fresh	m <sub>gr</sub> hc	m <sub>in</sub> fr	Qtz-Ser. Zones	MoS <sub>2</sub>	Rock Type	Comments	
						wh								
9 396-415	lg	5	✓ new	<	-	grn 2p	plz	-	chl ser	3	-	✓	4	DI+?
11 439-457	lg <del>lg</del>	5	-	<	pink 2p		wh (2)	✓ (2)	chl ser	1	10	1/2	5	no pic 1973 photo
13 475-493	lg	7	-	<	cream to pink and green 2p			-	chl	1.5	-	✓	5	+ Ap stamps at 400
15 510-532	lg	2	✓	<	pink green 1e	yellow grn 2-3 p	-	-	chl ser	2(?)	-	✓	5	

- 9 412 → End Box <sup>→ 416</sup> pink + epidote rock Porphyry contact  
at 390-393  
 gtz-och hem vein 30° carbonate veins 35° (och hem streaks)  
 gtz-bn-MoS<sub>2</sub>-ser? (vfg black) vein (35°) gtz vein w MoS<sub>2</sub>-ep chls (40°)  
 gtz vein 35° local rubble zones 402 mintzn, altn
- 10 Porphyry (dark gray green eph. gidmass gtz bi(chl, ep) plag ppy - Di) to 418 (contact ≈ 60°) then bleached white 15' keema <sup>to 422</sup> (locally) cream rock ± ep + no gtz) to 428; then sk wh → gm-wh (2) mafic → chl.
- 11 Qtz-ep veins 30° ep veins with dissem bn contact  
 gtz-bn veins in a gtz-ser altn zone with pods of gtz-ep-bn-cpy mintzn (all ≈ 35°)  
 gtz-vfg-ser-bn fr (45°) gtz-ser-bn-cpy fr (20°) cut by gtz-bn-MoS<sub>2</sub> vein (35°) actinolite-chl fr 25°  
 443 mintzn 447 mintzn
- 12 White 1 loc fresh to 463 then cream (2p) locally a bit rubble mafic F → c then c ± some cpy
- 13 Qtz-bn "bl vfg ser" vein 40° gtz-ep-chl ± bn veins 40°  
 ser-MoS<sub>2</sub> fr 35° gtz veins w. bn blebs (20°) actin-chl fr (40°)
- 14 cream (2) to 500 then ol. gm (2-3)
- 15 1M-572-3322 gouge 517-530 Bonanza gtz-epy-MoS<sub>2</sub> vein  
 522k 524 gtz-epy ± bn @ 35° veins chl-bn fr 40°

# HIGHLAND VALLEY DRILL LOG SHEET

Hole 68-17

Date Aug 8/73

Property HIGHMONT

W. J. McMillan

B.C. Dept. of Mines and Petroleum Resources

Box Footage	Grade	Qz. Veins	Pyr.	Cpy. V. Bn.	Feldspar Alteration			Feld. Fresh	mg. Fe	min. Fe	Qz. Ser. Zones	MoS <sub>2</sub>	Rock Type	Comments
					pink	grn	alt							
553-570	lg	7	-	≈	2 2	2 2	12 2	-	fr cal ser	1	-	-	5	
591-609	vlg	-	-	<	fr	-	bleach wh 2p	-	ser all	0.7	-	-	5	
627-644	vlg	10	-	?	-	ol grn (2) to 640	wh ↓ after 640	✓	"	3	-	1	5	
661-680	lg	10	-	W	see below			"	"	3	?	✓	possibly 5	

16 porc. wh. alt (2-3) ... bleaching 550

17 gtz-och. hem streaks 30° gtz-ser-bn fr 30° gtz vein, some cpy. bleach halo (cream) (25°) fr. w. cpy-bn pockets along 35° barren gtz (25°) seems to cut ser fr (25°) [NOT CERTAIN]

18 ~~alt~~ gony throughout Bleached white + epidotized rock 586

19 alt. easing by end of box  
calcite (0, 20°) veins gtz-ep veins 20°, 35°; ep fr 20°  
chl ± bn fr (35°) cut by gtz-ep vein 0 → 20°  
bn-chl fr 10° actin. fr 30°

20 610-613 epidotized, bleached white aplite (?)  
612 white porc. alt (1-2) to 623 then pink (2)

21 630-638 Gony gtz-ser-bn-MoS<sub>2</sub> fr 30°  
barren gtz (20°/30°) vein

22 ol. green - cream (2) - local yell wh (3)  
cpy, MoS<sub>2</sub> in gtz vein (sparse)

23 Gony 668-675 ol. grn to 666 then wh (porc) to cream 2-3. Zone 668-675 has dissem pockets of plagioclase + cpy; cpy dissem + in disc patches (fr cutl)  
ol. green alt (loc). gtz-ep-och hem. MoS<sub>2</sub> vein 30° 663  
wh → pink xltne calcite veins (10, 35°) actin. fr 35° 673

# HIGHLAND VALLEY DRILL LOG SHEET

Hole 68-17

Date Aug 8/73

Property Highmont

W. J. McMillan

B.C. Dept. of Mines and Petroleum Resources

Box Footage	Grade	Qz. Veins	Pyr.	Cpy. V. Bn.	Feldspar Alteration			Feld. Fresh	m 2 fr	m 1 fr	Qz.-Ser. Zones	MoS <sub>2</sub>	Rock Type	Comments
					yell grn	grn	wh							
25 699-717	vlg	7	-	√?	3l	2l	1-2 l	-	chl ser	3	-	√	5	
27 735-751	vlg	20	-	< 2	-	-	1p l	l	fr	2	-	√	5	
- EOH -														

24 wh → green → ol green locally locally rubbley  
 (1-2) (1-2) (2)

25 chl fr 20° almost barren qtz veins (milky qtz) some MoS<sub>2</sub> on borders (20°)  
 Bxtd zones (40") up to 2" wide - cemented by qtz-och. hem.  
 ser. fr 20° qtz-chl-cpy vein (25°) chl-actin fr (50°)

26 white altn (1p, 2-3l)

27 calcite (30°) vein chl-actin fr 0-10° ± tour  
 qtz-ep-MoS<sub>2</sub> w. pink holo (30°) chl-ep-lan fr w.  
 chl-MoS<sub>2</sub> fr (35°) pink borders 20°

- EOH -

# HIGHLAND VALLEY DRILL LOG SHEET 102, 800

Hole 70-221  
length 946'

Date Aug 6/73  
variable cloudy, sunny;  
breezy + cool

Property HIGHMONT

W. J. McMillan

B.C. Dept. of Mines and Petroleum Resources

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. > Bn.	Feldspar Alteration			Feld. Fresh	M <sub>9</sub> fr	M <sub>11</sub> fr	Qtz.-Ser. Zones	MoS <sub>2</sub>	Rock Type	Comments
					ol	al	wh							
21-38	11g-	-	-	?	-	-	1-2 P	2	fr chl	3	-	-	5	almost 4
3 55-76	vlg-	10	-	?	ol grn 2-3 after 71	-	1-2 P	-	fr chl ser	3	-	↓	5	local interse pockets w. wh.
5 99-122	vlg	10	-	✓	pink 1-2 2	grn 1-2 2	1-2	-	"	3	-	-	5	
7 145-167	lg-	20	-	✓	green ol 2-3p	grn - -	-	-	ser	5	-	✓	?	prob. Skeena
9 189-211	11g	20	-	✓	ol grn 2-3p	grn - -	-	-	ser chl	5	20	✓	5 D	

- 1 Rusty zone 23-31 chl fr 10°, 30° qtz-ser fr 30°  
qtz-ep vein 80°
- 2 Similar altn to 1
- 3 qtz vein 40° Tour qtz vein 10° qtz-ep-MoS<sub>2</sub> 40° qtz-ep 60°  
chl fr 30° white alt zone has dissesem. ser packets - no  
ore mass tho
- 4 Rubbly 76-78, 93-94 ol. grn (2-3) ady to rubbly zones  
vlg Cpy > BN loc porc. wh. altn w. to wh; otherwise wh/p
- 5 qtz-ser-cpy vein 20-30°  
Tour in cream-pink altn zone, qtz-ep zone 10°  
chl-cpy fr 20° qtz-chl ± ep fr calcite cuts qtz-cpy vein (350)  
(variable) ep not common
- 6 Chamosite on fr half wh → ser wh (1-2) half ol green (2-3)  
qtz-MoS<sub>2</sub>-cpy vein Rubbly 122-124 qtz-cpy-some  
bn (20°)
- 7 ochrous hem-qtz veins 10-30° (5 in box) chamositic fr. faces  
locally rock shot thin w. dissesem. + fr cntld cpy 150  
qtz-cpy knot qtz-MoS<sub>2</sub> vein (350) calcite 60° MoS<sub>2</sub> fr 10°
- 8 Sim. to 7 but loc white altn zone (2-3) bonanza qtz-cpy-MoS<sub>2</sub> vein  
Rubbly 167, 187, 189-191(?)
- 9 First rock after gauge is qtz PPy - Skeena at 194 +  
205-207 (Dike contact 450)  
Chamosite on fr; qtz-och hem 60° qtz-ser-cpy fr 50° cpy 211  
calcite (145)



# HIGHLAND VALLEY DRILL LOG SHEET

1021800

Hole 70-221

Date Aug 6 '73

(946' long) 13 onward Aug 7/73

sunny, clear cool breeze

Property Highmont

W. J. McMillan

B.C. Dept. of Mines and Petroleum Resources

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. V. Bn.	Feldspar Alteration			Feld. Fresh	m <sub>g</sub> f <sub>ic</sub>	m <sub>u</sub> f <sub>r</sub>	Qtz. Ser. Zones	MoS <sub>2</sub>	Rock Type	Comments
" 243-257	vlg	20	-	✓ 20	see below				chl ser	-	20	-	D1	to 240 then?
13 279-289	lg-	-	-	✓	"	"	"		chl ser sp	2	-	-	5	at least in part Ap (kaucocretic) stompho
5 <del>243-257</del>														

- 10 gtz ep veins 45° gtz-cpy 70° gtz-cpy w gtz-ser halo 20°  
all cut dyke c.k. (D1) altn diff. to decide on because  
of color of gradness of dyke. As porphyry coarsens, altn  
is green (1-2p) mafic → chl cpy-ton fr 0; MoS<sub>2</sub> fr 0°  
230
- 11 after 240 rock is bleached pinky wh. n + pervasively epidotized.  
(beautiful color) - wh 1-2p to 240 (of phenos) gradness green gray  
gtz-cpy 4. + without ser halo 0-20°  
In one area ep repl. cut by stockwork of bn fr.  
Local rubble after 245 250 altn
- 12 Rubbly epidotized white rock to 275 then bleached  
wh. rock (2-3) that does not look like D1 - altn  
diminishing & by end of box looks like Skeena (with use  
of one's imagination)
- 13 Bleached wh + epidotized to 281 then wh (2p) to  
288 where ol. green emerald green (around fr 60°)  
gaugy 279-280, 282, 287-290 cpy after mafic in wh bleach  
zones  
cpy-ser fr 30° chl-ep fr 0° ep fr 70° ~~ep-gtz~~ veins (30°)  
gtz-ep-cpy vein w pink halo (35°)  
Rock type a problem - altn obscures it & gtz looks sub-  
lithal locally.
- 14 ol. green altn (2-3p) Rubbly throughout chamositic fr.

# HIGHLAND VALLEY DRILL LOG SHEET

Hole 70-221

Date Aug 7, 73

Property HIGHTMONT

W. J. McMillan

B.C. Dept. of Mines and Petroleum Resources

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. V. Bn.	Feldspar Alteration		Feld. Fresh	m of c	min f	Qtz-Ser. Zones	MoS <sub>2</sub>	Rock Type	Comments	
						White								
5 321-345	vlg	20	-	✓	-	ol grn 2-3 p	-	-	chl	3	20	-	?	possibly 5 but locally has gr. eyes.
17 367-390	lg	-	-	✓	-	2-3 to 570	1-2 p	-	fr chl	1	3	-	5	almost o. E. Bm
19 413-435	lg	-	✓	✓	pink 2p	-	wh 3l	-	chl	1	3	✓	5+	DI
21 457-489	vlg	-	-	?	1l	-	2p	-	chl	1	-	-	5	gtz plag sp stringers (20°?)

15 chl ± bn fr 35° fq xline gtz on fr (open space fill) 10° carbonate (yell. + rusty) + grt - od. hem. veins 45° loc. cpy in v. thin fr + dissem. thin alt. rock chl - cpy fr 30° barren (30-50°) grt vein 30° **336 C.R.**  
Local gassy zones gtz - tour kerst

16 loc. is definitely skewed. Local pink to green (2) or white (1-2) then ol. green (2) just before gauge at box end

17 gtz - bn - ser (black, vfg) 70° fr; gtz - ser - cpy - some bn zones 70-45°  
 Tour - chl - cpy 30° fr. gtz - ep vein 45° fr 30° some have a fringe calcite 45° loc. dissem cpy, bn after mafics (375) in which epidot. of to occur locally

18 sk (almost Bm) to 400, at 406, at ~~400~~ 410 - 411  
 host is DI (bc gtz plag ppy oph. gray - gm gld mass)  
 alt. of C.R. is wh (1) to fresh. MoS<sub>2</sub> - cpy - grt vein in C.R.

19 Rubby zones 420 - 433  
 Porphyry 417 - 418, 420 - 430, (ppy contact v. low?)  
**430** alt. pink (1) to "fresh" - chl - ep fr 30°  
 C.R. chl - cpy - pyr. 5° chl fr 50° pyr. - chl 20° ser - chl fr 20°  
 grt - chl - cpy - MoS<sub>2</sub> fr (10°) gtz - ep vein (25°) cpy - bn - ser  
 grt - bn - chl 25° Tour pot. fr (20°)

20 Rubby throughout, locally pink alt. (1-2p)

21 calcite p, 30° chl - ep fr 35° grt ep veins, fr 0°, 50°

# HIGHLAND VALLEY DRILL LOG SHEET

Hole 70-221

Date Aug 7/73

Property HIGHMONT

W. J. McMillan  
B.C. Dept. of Mines and Petroleum Resources

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. V. Bn.	Feldspar Alteration			Feld. Fresh	m qtz	m s.r.	Qtz-Ser. Zones	MoS <sub>2</sub>	Rock Type	Comments
3 505-527	vlg	-	-	?	-	-	wh 2p c.r.	-	chl c.r.	1 s.r.	-	-	5	to 512 D1 after
25 549-571	vlg	-	-	?	pink 2p	-	-	-	chl	3	-	✓	5	D1 560-570
27 592-616	vlg	-	-	?	pink 1-2 to 6.0	-	wh 1-2 after 6.0	-	chl	2	-	✓	5	D1 to 615 then 5
29 638-660	lg	-	-	✓	2p c. r.	-	-	-	chl	1 10	✓	✓	5	+ D1 after 650

22 Rubby 485-499 wh 1-2p alt sk to 499 then pink fg leuco dyke(?) to 500, sk to 501, dyke to 504 then sk. The "dyke" is pinkish + pervasively epidotized 503. Eic like the zone seen higher in the hole.

23 c.r. ep-grt vein 350 chl fr 65° grt-chl fr 70°  
Dyke ep fr 30° chl bi grt plag ppy - plag white or pinkish wh matrix green aph. near contact - cream (1-2) later - % phenos up deeper into dyke

24 Dyke to 548 then pink (2) alt. c.r. rather than aphanitic. Is alt. wh → pink; matrix green to bleached mafic texture like Bm or Bimodal w. pink c.g. hb. 530

25 Rubby 500-589 ep-grt veins fr 35°, ep. fr. 70°  
chl-ep-grt vein 350 calcite 30° grt-chl-MoS<sub>2</sub> fr 30°  
552 c.r.

26 mild wh → pink alt. in D1 (after 550')

27 Gaugy 604-610 calcite 10°, chl fr 35°, MoS<sub>2</sub> fr 30°  
c.r. grt-cpy-some bn w. narrow ser. halo 35°, milky grt vein 40° with cpy-bn + MoS<sub>2</sub> pads

28 wh + pink (2) to 625 then grt-ser-cpy + MoS<sub>2</sub> (low + 35°).  
act. between 19 cpy tourmaline as pink  
Gaugy 630-638-643 Dissemin. cpy loc. in dyke 653

29 Dyke - gray grd mass grt-cpy w. ser-grt-cpy habs 20, 30° chl-ep fr 10°

1M-572-3322

# HIGHLAND VALLEY DRILL LOG SHEET

Hole 70-221

Date Aug 7/73

Property HIGHTMONT

W. J. McMillan

B.C. Dept. of Mines and Petroleum Resources

Box Footage	Grade	Qz. Veins	Pyr.	Cpy. V. Bn.	Feldspar Alteration			Feld. Fresh	m gr fr	mm fr	Qz. Ser. Zones	MoS <sub>2</sub>	Rock Type	Comments	
31 681-704	lg	10	✓	✓	see below			chl		1	5	✓	DI	to then 5 with Distur gers	
33 725-747	vlg	-	-	"	-	-	wh 1-2	fr	fr	chl	5	-	-	DI	gray to green grad- mass
35 770-798	vlg	-	-	✓	-	-	wh 1 2(r)	<del>fr</del> fr	<del>fr</del> fr	chl	1 1/2	-	-	5	
37 816-839	vlg	-	-	-	-	-	"	-	"		2	-	✓	5	

30 Dyke to 664 then after 672 Pink altn (1) in dyke (2) in CR. to 672 then wh (1) to fresh in dyke (DI) <sup>de</sup> Gneiss of porphyry and gray.

31 altn wh (1) - pink (1) - fr in dyke; wh (2) or pink + grn (2) ser - cpy - py fr 50°, 0° and gtz - ser - cpy (100°) cut by gtz - py ± cpy fr @ 45-50° in PPY AS WELL AS C.R. mass in C.R.

703 chl - mos<sub>2</sub> fr (100°) chl + chl - ep fr (0, 30°) gtz steeper 35° cpy - bn after chl. mafic loc.

32 DI to 711 then sk [pink (2)] w. DI steeper

33 Goopy 743-746 pink zeolite veins (now just dust!!) chl - cpy fr 35° ep - bn fr 35° chl fr 10° calcite 0°, 20°

34 752CR DI to 750 then Skeena altn wh (1) mafic fr.

35 gtz - ep zone 70°; chl - cpy fr 35°; chl - cpy - bn fr 05° actinolite fr 60°; chl fr 50°; ser - bn fr 10°

36 similar almost fresh sk.

37 gtz - chl - bn fr (100°) in wh (2) zone gtz - ep - mos<sub>2</sub> (20°) vein chl - bn - mos<sub>2</sub> fr 20°; local (2") bx zone w. gtz - actin. infilling

38 Sim. to 37 to 850 then pink + green (2)

# HIGHLAND VALLEY DRILL LOG SHEET

Hole 70-221

Date Aug 7/73

Property HIGHMONT

W. J. McMillan

B.C. Dept. of Mines and Petroleum Resources

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. V. Bn.	Feldspar Alteration		Feld. Fresh	Mg. chl	Mn. Fr	Qtz. Ser. Zones	MoS <sub>2</sub>	Rock Type	Comments
					pink	Other							
39 863-885	vlg	-	-	✓	20 to 869	Then wh 1-2	-	fr chl	2	-	✓	5	Graphitic granite stn-900 (55°)
41 908-932	vlg	-	-	?	pink + green 1-2	wh (1P)	-	"	2	-	-	5	
42 932-946	vlg	-	-	?	see below		fr chl ser		3	-	-	5	
—————				E O H		—————							

39 Goagy (local) zones 865, 875, 876 ep-chl fr 10°

gtz - ep veins 20° chl-epy-bn fr 10°

chl-ep-MoS<sub>2</sub>-bn fr 10°

40 white altn (1P) goagy (cave) @ 968

41 gtz-ep. fr 10° cut by tour-chl fr (30°) acten. fr 0°

ep-gtz - bn - epy vein 10° chl-epy fr (20°)

gtz-ep vein (0°) 10°

42 Like 41 to ~~940~~<sup>936</sup> then gouge w. assoc gen altn (2) to ~~940~~<sup>940</sup> - EOH is pink altn (2-3)

940, 940

————— E O H —————

102800

HIGHLAND VALLEY DRILL LOG SHEET

Hole 69-147

Date Aug 8/73

(757574)

cumulus clouds, a few breaks in cloud cover cool

Property HIGHMONT

W. J. McMillan

B.C. Dept. of Mines and Petroleum Resources

Box Footage	Grade	Qz. Veins	Pyr.	Cpy. V. Bn.	Feldspar Alteration		Feld. Fresh	M. Frs	M. Fr	Qz. Ser. Zones	MoS <sub>2</sub>	Rock Type	Comments	
48-64	vlg	10	-	<	cream to it green	1-2 p	-	-	ser chl	2	10	-	?	very rusty
3 82-106	lg	20	-	<	see below				fr chl ser	2	-	✓	5	
5 131-155	lg	20	-	<	grn wh	1-2	-	-	fr chl	1/2	-	-	5	
7 180-205	lg	5	-	<	180	bl. green	bl. green	bl. green	ser	2	-	-	?	possibly 5
9 230-252	lg	3	-	<	pink wh	1-2	p	l	fr chl	1	20	-	5	local bleached bxted zone cemented by qtz-tour-chl.

- qtz - MoS<sub>2</sub> vein 50°      qtz - bn - cpy - mal w. qtz - Ser Labs (50°?)
- same altn to 72 then white (1) (loc. fresh) loc grn-wh (2) actin - fr 40°      skeena mafic → chl actin? qtz - ser zones w. cpy some bn (10)
- loc green (1-2) local cream (2-3) loc wh (1) to fresh  

91-94 Rusty + gougy

 chl - bn - qtz fr 40° chl - bn fr (50°) chl - bn - mos<sub>2</sub> - cpy fr 35° actin - ep. fr 30° qtz vein (50°) chl - ep fr w. bleached Labs (35°) 95 altn 105 C.R.
- overall white (1) local (2) local fresh  
 5 bn/fr w. assoc pink stain (40°) chl - cpy - MoS<sub>2</sub> fr 45° qtz - chl - ep fr (30°) qtz - bn - kspat(?) vein 45°
- cream to green altn (1-2 p) loc. pink (2)  
 qtz - ep - bn vein (20°)
- gougy 185-195

 chl - bn fr 70°, 20°; qtz - bn vein 45°, 50°
- yell. ol. green (3) to 210 then cases to grn-wh (2) pink (2)  
 qtz - MoS<sub>2</sub> - bn - cpy vein (45°) qtz - bn veins (40°)
- 1M-572-3322 9 Tour - actin fr 20° cut (?) barren qtz (45°)  
 qtz - ser - MoS<sub>2</sub> fr 40° qtz - ep veins 45° qtz - cpy - bn veins (45°)  
 qtz - ser - cpy fr 50° qtz - bn fr 45° pink veins

# HIGHLAND VALLEY DRILL LOG SHEET

Hole 69-147

Date Aug 7/73

Property HIGHMONT

W. J. McMillan  
B.C. Dept. of Mines and Petroleum Resources

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. V. Bn.	Feldspar Alteration			Feld. Fresh	M <sub>g</sub> fr	M <sub>14</sub> fr	Qtz. Ser. Zones	MoS <sub>2</sub>	Rock Type	Comments	
					pink	grn	wh								
276-299	lg	4	-	≤	l2	l2	1-2 p	l	fr	chl	1	20	✓	5	
322-345	lg	10	-	≤	cream-grn 3 alt 2+2	grn 1-2 p	-	-	chl ser fr	fr	1	20	✓	5	
370-394	lg	4	-	✓	-	-	2p	-	fr chl	0.5	7	✓	5		
420-445	lg	7	-	≤	l2	-	1p	✓	fr chl	0.5	10	√ <sup>1</sup> / <sub>2</sub>	5		

10 (252-276) white (1-2) p altm these cut banner qtz-chl (45°)

11 qtz-chl-bn w pink altm halo (b) seems to cut actin - tour at 35°  
 quartz 45° qtz-ep vein 45° chl-actin fr 30°  
 qtz-ep-epy-bn vein 45° qtz-ep. MoS<sub>2</sub> veins 40, 50  
 chl-MoS<sub>2</sub> fr 40° caliche veins 40°

12 occasional odd mafic - rich zones - altm like 13

13 actin fr 35° chl-MoS<sub>2</sub>-bn fr. 35° qtz-MoS<sub>2</sub> veins 40°  
 qtz-bn - ep vein 50° qtz-ep fr 35° qtz-tour blebs along fr @ 35°  
 qtz-bn with qtz-ser-epy halo (45°) qtz-epy-bn <sup>MoS<sub>2</sub></sup> vein 40°  
 w. qtz-ser-epy-MoS<sub>2</sub> halo 322 Actin.

14 Rubbly 350-360. Pink → cream → green altm (2-3) before Rubble then white (1-2 p) (lg-)  
 qtz-tour actin cuts qtz-ep.

15 Rubbly zone epidote - red @ 381 qtz-epy-bn <sup>with qtz-ser-epy halo (35°)</sup>  
 chl-epy-MoS<sub>2</sub> 20° qtz-ep-bn-epy veins (45°) with pink halos  
 qtz-ep cuts qtz-chl fr (both = 35°)  
 locally rock is spotted w. dissemin. sulphide

16 white to pink + green actin level (1-2) 392

17 chl-ep fr 35° fr. as in 15  
 qtz-MoS<sub>2</sub> qtz-bn - och hem (35°) caliche (35°)

# HIGHLAND VALLEY DRILL LOG SHEET

Hole 69-147

Date Aug 8 / 73

~~2 1/2~~ onward - Aug 9 / 73

Property HIGHMOUNT

W. J. McMillan

B.C. Dept. of Mines and Petroleum Resources

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. V. Bn.	Feldspar Alteration		Feld. Fresh	m of f.c.	min f.	Qtz-Ser. Zones	MoS <sub>2</sub>	Rock Type	Comments
19 464-486	?	10	-	✓?	see below		ser	?	?	✓	?	possibly porphyry	
21 510-534	vlg	5	-	≥	cream-green 2p		-	chl	3	10	✓	5	at least locally
23 564-596	lg-	5	-	≈	cream-green pink 2p	2h	-	chl ser	3	10	✓	5	
25 620-645	vlg	10	-	≈	-	wh 12 2p	l	Fr chl act	4	-	✓	5	
26 Dyke (6p?) large Qtz eyes													65-3 669

18 (445-464) Gauge 454-456 overall cream-green (1), fresh locally

19 yell-ol. gm to 471 gauge to 478 + locally after that. alt. pinkish → yellowish cream to 486 Qtz w. ser-epy rim (45°) Tour fr (20°)

20 Cream → green (3p) all gougy

21 vuggy alt. wh (2-3) zone w. tour blebs - not sure of alt. product of mafic - chl? 515  
 Qtz-bn-ser zones 35° Qtz vein 30°  
 Qtz-ser-ochrem-bn-epy fr 30° Qtz w Qtz-ser <sup>halos</sup> (20°)  
 Qtz-bn-chl vein (35°) cut by Qtz-ep-some cpy (45°)  
 Qtz-cal-1 cpy 35, 45° ser-MoS<sub>2</sub>-epy fr (25°)  
 loc. bx zone w. Qtz-ser-bn between frags 534'

22 Bx + gauge to ~~548~~ 546 green alt. 1-2 pink (2) in gougy zone - 551 Dyke bi Qtz play ppy - aphan. pink → green  
 gidmass (D1) - mntzle w. cpy, bn, Qtz vein <sup>marks</sup> and ep. present edge of dyke at 554 then CR bleached wh (2)

23 587 onward - gauge ep, tour, Qtz cpy, bn

24 Gravelly gauge to 610 low (?) tour, ep By end of box  
 1M-572-3322 alt. white 1 gidmass tan 20% seriate texture

25 Zeolite (30°), ep 634 actin. after mafic <sup>cg</sup> Qtz-play.

26 Where alt. (2) to 649 then crowded ppy + " " mafic



# HIGHLAND VALLEY DRILL LOG SHEET

Hole 69-147

Date Aug 9/73  
sunny, clear, lovely

Property HIGHMONT

W. J. McMillan

B.C. Dept. of Mines and Petroleum Resources

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. V. Bn.	Feldspar Alteration		Feld. Fresh	m <sub>gr</sub> f <sub>ic</sub>	m <sub>in</sub> f <sub>ic</sub>	Qtz.-Ser. Zones	MoS <sub>2</sub>	Rock Type	Comments
27 665-690	vlg	-	-	?	-	olgr wh 2-3 1-2 2 p	-	ser chl	5	-	-	ppp <del>ppp</del>	(ag phenos 20%)
29 715-740	vlg	-	-	-	-	wh → yell wh 1-2 p, pink green 2p	22	"	2	-	-	"	
30 740-757	vlg	-	-	-	-	see below		"	5?	-	-	"	
EOH						EOH							

27 all dyke - dyke (~~holts~~) hole x blue now - matrix  
" aplite + white → gray + speckled with mafic.  
Rubblly to 670 with assoc ol green (2-3) altn - some  
bxt'd areas cemented by cal. + cal. veins.  
Tour blebs - contl unsure <sup>(gradnl contacts over 1/4")</sup> specular fr. 35  
There are loc zones where ppy matrix is vfg + one  
aplite inclusion (?) in ppy was seen 672, 682

28 all ppy - white (1p) - Tour blebs - again there are  
local <sup>to zones (degassing?)</sup> loc zp incl. matrix 700  
Rubblly e695-730

29 chl fr 35, 10 och hem fr 450

30 wh → gm-wh altn (1) to 742 then rubblly to EOH  
- more massive zones have wh → gm altn (2)  
Rock varies from obvious porphyritic aplite 737  
to much more x blue porphyry 741

102,800

✓ 70-221 J8

✓ 69-145 E nt side back  
should be > 800' long!

✓ (750') 68-17 back B bk nt

✓ (100') 68-16 ?  
Intermittent dykes 400-650  
vlg  
vlg beyond 570'  
before 200'

✓ (750') 69-147 E bk nt  
dyke after 620

Grade v low beyond 470  
and before 120'

- 1 -
- 2 1.3
- 3 -
- 4 1.3
- 5 -
- 6 2
- 7 2
- 8 1.3
- 9 1.3
- 10 -
- 11 2
- 12
- 13
- 14
- 15
- 16

HIGHMONT

Location of core box  
right side  
missile

Holes

69-93 (D6)

69-95 (D6-7) ✓

D18-19

→ 69-101 (D10-11) ✓

→ 69-83 ✓ (near the end

→ 69-110 (D21-22) ✓

could be in the  
dike)

→ 69-143 (G7) ✓

69-173 E-G 5-1-8

69-175 E-11

K5

70-293 ✓ Contact @ 70

I8

70-259 ✓ " @ 280

by me

305 - not racked

