896510

HIGHMONT

SECTION 104, 100E

HIGHLAND VALLEY DRILL LOG SHEET 104100

Hole 70-247 rack #9 Date July 18/77

Sunny, warm → hot

Property HIGHMONT W. J. McMillan

B.C. Dept. of Mines and Petroleum Resources

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. > Bn.	Feldspar Alteration Pink		wh	Feld. Fresh	m a fic	mg fr	Qtz.-Ser. Zones	MoS_2	Rock Type	Comments
2 36-57	lg	–	–	=	2p	–	–	–	ser (3)	5	2	✓	5	I think
4 86-110	vlg	–	–	< ?	see below				—	5	10	–	5	I think
6 145-170	lg	–	–	<	–	yell 2-3 l	2 l		chl ser (3)	2	20	–	5	" "

1) 13-35 rubbly fresh → yell white altn (2) qtz-ser qtz-MoS_2 veins

2) streaked (09) qtz-cp-bn zones pink altn qtz-ser-cpy-bn 45° qtz-bn-cpy veins 30° w. qtz-ser-cpy veins qtz-ser-bn 30° qtz-ser-bn-cpy-MoS_2 35°

3) Half rubble pink to yell altn (2-3p)

4) aplite stringers 45° Rubbly to with same altn as 3 then decreases and mafic → chl (?) fs → cream (2) or gray (aq) or green (2) ; qtz-bn w. qtz-ser halos 35° an odd zone at 110 has qtz eyes, more mafic + a blob of bn – possibly a dykelet actinolite-epidote-tour. on 35° fr. – all have rad. habit

5) almost fresh to 119 then rubbly + mud to 50 bars epidote clots with quartz veins yell. altn 1-3 in gouge zone

6) calcite vein 10° chl-actn-bn 10° 153, 156 qtz-bn 35° tour-bn 10°

loc zones which look mafic are actually shot thru with fr + disseam. altn "spheres" in 156 sample on bn-ser (?) (10-35°)

7) yell. altn 2-3 throughout

1M-572-3322

HIGHLAND VALLEY DRILL LOG SHEET

Hole 78-247 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	Mafic	Min fr	Qtz.-Ser. Zones	MoS_2	Rock Type	Comments
8 195-217	vlg	—	—	?	—	yell 2-3 p	wh 1-2 l	—	ser	3	10	✓	5 + 6p	contact ≈ 200' D13?
10 240-263	lg-	10	—	<	pink 2-3p after 255	2p to 245	1 l Between	l	fr chl	.7	—	—	6p	large square qtz eyes mainly
12 286-310	vlg	20	—	< ?	yell to grn 2-3p after		fresh w loc yell-wh.	fr chl ser 291		1.5	—	—	6p	Large square qtz eyes
14 333-359	vlg	20	—	<	—	—	yell-wh altn 2-3p		ser	2	10	—	6p	I think

8) qtz-bn-cpy-MoS_2 with qtz-ser halo 35° in "Dyke) 196 213
I am unsure whether the rock after 200 is odd skeena, D13 or porphyritic Bsda - the quartz is ambiguous.

9) yell. altn 2-3 1/3 of box slight arg to fresh fs elsewhere
Rock is rel. leuco. mafics (5-8%) qtz enlarged - locally
I would say Bsda, elsewhere skeena 235
chl-bn + chl-tour-bn veins

10) Tour fr 0-20° slickensided calcite veins ✓
qtz-bn-cp-chl ± tour fr (20-30°) high ∠ to core axis (20-30°)
bleach halo qtz-cp 0-20°
largely 6p but one short section is mg, mafic 12% + looks more like qtz Eye Bm 260

11) General arg (1) or fresh loc. whitish-pink (2) 6p

12) ~~yell-green~~ cg carbonate vein >1" white (70°)
Gouge 300-302 chl-cp-qtz-bn fr 30°
och-hem fr 0-20° qtz-chl-bn vein 10°

13) qtz-bn w ser halos (35°) [spacing 3'] tour-chl fr 10°
"fresh" with loc. yell-wh. zones (2)

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14) Gouge after 339-362 qtz-ser bn 20°
qtz-tour veins 35°; Tour-bn pods 35°

HIGHLAND VALLEY DRILL LOG SHEET

Hole 70-247 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	Mafic	Min fr	Qtz.-Ser. Zones	MoS_2	Rock Type	Comments
16 382-404	lg-	20	—	<	1h 3l	yell. wh 2p	—		ser	1	7	—	6p	I think
18 427-450	vlg	—	—	<	—	2-3 p	—	—	ser	5	10	—	6p	
20 472-496	Lg	2.5	—	?	1h 3l	2p	—	.	Not recorded	1.5	10	—	6p	cct / leucocratic almost DIB

15 qtz - bn (cct) ±cpy ser halos 30° (3' apart)
strike 45° to axis on ser faces 0°
yell. white (1e, 3e, 2p) Bn > cpy 6p

16 loc. ep - tour clots - possibly fr. controlled
qtz - bn ±cpy 35° with bn - cpy dissem in qtz - ser halos
ser - chl - some cpy fr 30° white flaky ser fr 0°
qtz - ep - och. hem 80°

17 fresher than 16 yell white 1-2p "fresh" l
chl - ep - tour blebs near small stockwork area cemented by cct 423
qtz phenos c.g. but sl. finer on avg now

18 qtz - ep - tour - och hem vein 45°
qtz - bn w. ser - qtz halos 20° ser - cpy fr. 10°
ser. fr 0° slickensides normal to core axis

19 alt'n diminishing to level 1 still yell. wh. mafic → ser, chl
qtz - bn vein 1/8"

20 och. hem 1% - control uncertain 480
Rusty carbonate veins 50°
qtz - cpy - cct 20, 35° qtz - ser - cct fr 20° cut by carbonate - och. hematite 20°
Some qtz - cct veins have ser halos

21 yell. alteration 2-3 p several gouge zones

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HIGHLAND VALLEY DRILL LOG SHEET

Hole 70-247 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 ag fr	m/h fr	Qtz.-Ser. Zones	MoS_2	Rock Type	Comments
22 520-543	lg	not * sure 5	—	?	—	yell-wh 2-3p		—	ser	2	not * sure 1.5	—	bp	cct leuco?
24 566-590	lg-	5	—	?	—	1-2p		—	chl-ep ser	2	—	—	bp	locally, where chl alt-mafic 3-5%
26 612-638	lg-	10	—	≤	—	2-3p		—	ser	5	3	✓ cct?	bp	
28 660-683	lg-	10		≤		pale wh to cream 2p		—	chl	0.3	10	—	bp	look a bit different because of alteration

22) qtz-cct ± bn ± cpy ~~some~~ most have qtz-ser halos 35°
barren qtz 35°
* not sure to classify some veins as qtz vs qtz-ser
och-hem. veins + pods with assoc tour. sheafs locally
23) Similar altn + rock type - less well mnld
24) och-hem pods cct-ser fr 30° vlg
intense wh-arg altn some fr faces 20° ep clots up to ½" control?
25) Gouge 611 → ser zones back again
qtz-cpy-bn veins w. ser halos
qtz-cpy-MoS_2 fr 20° altn yell. 2-3p
26) Half the box is powdery gouge
qtz-bn w. qtz-ser halos 20° cut by qtz-och-hem-tour (50°)
qtz-MoS_2-cpy-tour @ 30°
qtz-MoS_2 cemented by gone w. tour + och-hem. (0°) 615
27) less altered but a fair # of fr + veins of qtz-tour-ep-cct(?) 658 Bx @ 650
28) Num qtz-ep-tour-cct(?) fr fillings 50° predom. but other dirns also in stockworks
vuggy qtz-bn-cpy w qtz-ser halos (10°) 682
29) Fresh to arg (2) locally stockwork fillings as in 28

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HIGHLAND VALLEY DRILL LOG SHEET

Hole 70-247 Date July 18/73

Property HARMONT

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

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. > Bn.	Feldspar Alteration			Feld. Fresh	m a fic	min fr	Qtz.-Ser. Zones	MoS_2	Rock Type	Comments
30 700-727	vlg	10	—	?	—	pore wh zp 3l	—	l				D12?	Bx 6p?	frags fairly large about a foot?
32 750-774	vlg	?	—	✓	orangy cream or green (sh) zp			?	?	10	—	D12? 6p?		ppy-qtz plag phenos leucocratic Bx
34 798-822	vlg	10	—	✓	fresh to yel-wh. 2			?	?	?	—	D12 6p	Bx	all frags are ppy.
36 846-867					pink 1-2 l	—	—	p				D12	Bx	

30 qtz - tour - ep - cct - ch hem cementing mat'l
qtz ^ bn cpy w. qtz ser halo 20°
white zeolite (calcite?) veins 50° 720, 723
bxtn apparently post quartz w. ser-qtz halos

31 barren qtz vein 10° cut by qtz-tour-ch hem
732 750 some ep clots in bx matrix
obvious bx now - matrix of ppy is sub-aplitic
also - because of degassing?

32 Matrix of ppy not well mentld. Intensity of bxtn
varies markedly from place to place. Some places
frags ½" across, others I guess at several feet. 754

33 altn typ. yellow-white (2) loc. fress. ~~Tour~~ Bx
matrix ^ filling veins & stockworks occupy

34 Similar to 32, 33 799

35 840 Bxtn diminishing - ppy now distinctly
aplitic matrix - qtz - plag phenos

36 Bxtn picks up after 857 → EOH
ppy aplitic Bx frags rounded to 4"?
860 comminuted by matrix looks black / not just tour. either

1M-572-3322

HIGHLAND VALLEY DRILL LOG SHEET 104,100

Hole 68-69 Date July 18/73

Hot; Sunny

Property Highmont

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

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. > Bn.	Feldspar Alteration ~~gtz~~	grn		Feld. Fresh	m & fic	mm fi	Qtz.-Ser. Zones	MoS_2	Rock Type	Comments
2 24-40	lg-	20	—	✓	—	1-2 p	-	—	fresh chl	1	—	✓	5	
4 59-81	vlg	20	—	?	pink + green 1-2p		—	—	chl ± ep	1	—	✓	5	
6 101-123	vlg	-	-	✓	pink 20		wh 1-2 p	—	fr chl	3	—	—	5	
8 144-161	vlg	7	—	✓	cream + green 2p		—	—	chl ± ep	2	—	✓	5	
10 184-206	lg-		—	cpy = bn	pink 2l	—	wh 1-2 p	—	fr chl	1	—	—	5	

1) 7-24: Rusty, rubbly mal stain iron oxide altn arg (1-2) ol. green (2-3) both local

2) Rust on fractures
chl-cpy-MoS_2 fr @ 20° gtz-bn-cpy w. pink halos 20°
bn-chl fr 30° gtz-ser-cpy-bn-mal (20°)

3) Ol. grn altn (2-3p) gtz-tour knots (45°) on fr (0°) gtz-MoS_2 (0°)

4) Rust & rubbly 57-68 with ol green altn (2-3)
Tour-chl-ep 30°; chl-ep (25° knots gtz-ep-MoS_2 (20°)
General greenish wh (arg) altn (1-2p); arg (chalky wh) (3) some fr faces (low %)

5) Fairly wide gtz-ep ± ock-hem zones

6) Ep-mag veins @ 30° assoc with pink altn
one such vein has 18" of core width
gtz-ser-cpy fr 30°

7) arg. 1-2 + cream + green altn (1-2) — box wouldn't move

8) gtz-ep-MoS_2-bn vein 45° gtz-chl-ep-MoS_2 (?) 30° 154
ep fr 30° magnetite-chl fr 35° gtz-ep-MoS_2 @ 25°

9) arg altn 1-2p; pink (@ 2)

10) chl fr 20°; chl-ser-bn-cpy fr 30°
chl-ep ± bn fr 35°; chl-ep-cpy-bn fr 20°
gtz-ep knots

1M-572-3322

HIGHLAND VALLEY DRILL LOG SHEET

Hole 68 - 69 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	grn	wh	Feld. Fresh	% of fc	min fr	Qtz.-Ser. Zones	MoS_2	Rock Type	Comments
12 220-250	lg-	10	—	✓	—	1-2 p grn 240	1-2 p to 240	—	fr chl	1½	5	—	5	
14 272-292	lg-	5	—	✓	cream-green 2p		ol grn 2-3p	—	fr chl ser	·7	10	✓	5	
16 314-331	lg-	20	—	=	cream-green 2p	—	—		chl + ep (ce)	1	—	✓	5	319-322 andesite dyke (sheared)
18 349-369	lg-	20	—	= appx	cream some green 2p		—		chl	1	5	✓	5	
20 391-413	lg	20	—	≥	yell-wh 2-3p	—	—		ser chl (local)	2	1.5	✓	5	I think

11 arg 1-2 + green 1-2 typical — local cream (1-2)

12 230-231 Muddy Gouge calcite on earlier chl-ep face
qtz-ser-cpy 35° (vein) qtz-ser-cpy w. pinkish halo 30°

13 mainly ser yell green (2-3) but local yell. white (2-3)

14 qtz-ep 20° (vein) 256 qtz-MoS_2-cpy 30° MoS_2 fr 10°
cpy-ser fr 35°

15 Qtz-Bn-cpy-MoS_2 vein true width 6" (30°)
general olive green altn (2) Tour-ep (50°) vein cut qtz-cpy-MoS_2 vein 30°
311 Tour etc assoc with bx zone with cl rounded frags + dyke matrix qtz ppy (D12)

16 ser-cpy fr 35° chl-bn-ep fr 10° 321

17 Bn-cpy-chl fr 30° arg altn 1-2p
qtz-~~cpy~~ bn-cpy 30° ser qtz veins

18 qtz-bn-cpy vein 30° qtz-ser halos; ep-chl fr 10°
ep fr 20° nearby ep clots + tour sheafs

19 yellow altn (2-3p) more qtz-ser zones (locally a stockwork @ 30, 60° One bonanza type qtz-cpy vein at 30° — has qtz-ser halo

20 Qtz-MoS_2-och-hem 30° qtz-ser-cpy 30° cut by rusty carbonate 30°
qtz-ser-bn ± cpy 35°

1M-572-3322

HIGHLAND VALLEY DRILL LOG SHEET

Hole 68-69 Date July 18/73

25on July 19/73
Sunny, Hot, Beautiful

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 o fr	min fr	Qtz.-Ser. Zones	MoS_2	Rock Type	Comments
22 434-451	lg-	5	—	✓	yell	cream 1-2p		—	ser	3	—	✓ pore	5	
24 480-501	lg-	20	—	= ?	yell 2p *48%	cream + green 2p	after use	—	chl ser	2	10	?	5	
26 523-545	vlg	20	—	? =	grn-wh. 1-2p	yell-wh 2p			Bi fr chl	5	10	✓	D1	locally wh. porc plag altn
28 571-591	lg-	5	—	? =	—	Skarna near gouge, vein	wh 2-3 p	—	Sk chl ep	5	(2-3p)		5 ?	chill zone 571 (inches) local rubble zones
yell. zone mafic → ser		?		texture	at 581	to a zone of after 583		the	yell. alt. yell alt.	dyke contenues texture unsure		with graphic but rock		

21 whitish yellow pervasive (2-3)

22 ser-cpy fr 30° qtz-cpy w pink halo containing blebs of ser-cpy (35°) qtz-carbonate 50°
qtz-ep-chl hem (45°) cut by carbonate (50°)
quartz (barren) MoS_2 pink halo 30° with ser/cpy blebs in altn halo 440

23 Similar altn

24 qtz-ep-chl-cpy-bn zone ½" wide @ 35°
qtz-ep vein 30° with bleached halos qtz-ser w. bn blebs 35°
qtz-cct (?) MoS_2 (??) with qtz-ser halo (30°)

25 Have dyke check tomorrow
dyke 511-513 subaplitic contact 30° changes to
cg qtz plag aplite in inches — cut by
qtz-ep veins (35°) (D12)
second dyke cut by qtz-ep veins 30°
518 pink-brn aphan. groundmass, qtz phenos
becomes qtz-plag ppy (D1) mafics tg 3% chl.

26 qtz-ep veins gouge zones 530-540 rusty carbonate veins 25° (cut altn zones)
qtz-MoS_2-bn-cpy vein 528
qtz-ser-cpy 20°

27 Half the box is gouge (lost) altn avg 1-2p yell-wh 3l DI

zone 40° flooded qtz-chl-hem
28 qtz-ser-cct 35°
qtz-cct w qtz-ser halos 30°
qtz-cch hem 35° ± cct
multifractured qtz-bn-cpy vein

1M-572-3322

HIGHLAND VALLEY DRILL LOG SHEET

Hole 68-69 Date July 19/73

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	mafic	min fl	Qtz.-Ser. Zones	MoS_2	Rock Type	Comments
30 613-632	vlg	10	–	< ?	–	grn 2l	wh 2-3 p	–	chl	3	7	–	5 DI apl.	3/4 gouge (low %)
32 653-674	NIL	–	–	–	arg 2p aplite		before 1-2p after		chl fr	5	–	–	5 apl.	5 to 660, aplite to 667 then 5
34 697-717	lg-	–	–	<	yell-cream 2p		pore wh. 3l		chl ser	1	2	✓	5	
36 741-758	vlg-	–	–	✓	yell-ash to cream 2-3 p			–	ser	2	7	–	? 5	bleached
EOH					E	O	H							aplite at 758

29 Skeena arg 1-2p very local rubbly zones

30 DI in part 628 qtz-ep vein 30°
aplite in part 629-632
Skeena C.R. chl fr 30° qtz-ser-bn fr 30°

31 mostly rubble (low %) sk. c.R. pink zeolite veins 20-30°
stress 50° to axis wh arg. (2-3p)
some aplite cut by qtz-tour-ep 50° 643

32 656-658 mud+gravel+gouge
Tour ± ep-chl fr 0° in aplite; tour blebs also
aplite has qtz-plag phenos in centre of dyke +
graphic texture around qtz-tour "sweats"
qtz-~~ep~~ zone 35°

33 qtz-cp-bn blebs qtz-ser bn zones local gouge zones
lg- skeena arg (1-2p) pink (2l) calcite 20°

34 qtz-ser zones 10° Tour sheafs in adj. alt rock
Tour-qtz-ep 30° ± MoS_2 (70°) Tour fr 60° 701
qtz-MoS_2 - bn ± ~~cpy~~ w. qtz-ser halo 10° cut by ch.-hem. 35°

35 Rubble (low %) after 730 yell-wh. altn (3) 725

36 Rubbly to EOH qtz-ser-cpy 10°
qtz-tour-ep-ch.hem. veins & stockworks
Tour-ep-chl fr in aplite 50° 0° 35° 60°
— EOH —

1M-572-3322

HIGHLAND VALLEY DRILL LOG SHEET

104, 100

Hole 70-229 (-70°) (918' long) Date Aug 6/73 Sunny, cumulus clouds

Property HIGHMONT

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

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. Bn.	Feldspar Alteration: pink	Feldspar Alteration: ⊕	Feldspar Alteration:	Feld. Fresh	m a f c	min fr	Qtz.-Ser. Zones	MoS_2	Rock Type	Comments
1 10-28	lg-	20	-	✓ close	l2	ol-grn 2p	-	—	fr chl	1½	7	✓	5	on 4?
3 48-67	lg	—	rare ?	≈	l2	2-3 p to 55	grn 1-2 2/fr 55	—	fr chl ser	? 0.5	7	✓	5	but close to 4
5 88-113	v/g	20	—	≈	pink 1-2 l	grn wh 1-2p	wh 2l	-	fr chl	3	—	-	5	yell white altn 3 after 111
7 136-158	v/g	10	—	≈	—	—	wh-(1-2) grey (fresh)			4	20	✓	5	almost 4

1. Rust on fr @ low ∡ to core qtz-bn-ser vein 20°
qtz-bn-cpy-MoS_2-ser(?) (0°) cpy-bn-chl fr (15°)
qtz-ser-cpy fr (0°, 30°)
2. ol. grn (1-2) to 35 then (2-3) Rubble @ 37, 48
3 ser-cpy fr 25° qtz-cpy-chl zone w pink halo (15°)
ser-chl-cpy-pyr. fr (10°) qtz-chl-ep-bn-cpy-MoS_2 zones w pink halo (10°)
aplite stringers 15° have qtz seams & graphic zones adj. to them
cut by qtz-cpy vein
chl-bn fr (05°) qtz-ser-MoS_2-cpy fr (20°) 63 C.R.
grn flaky ser-chl-cpy-MoS_2 clot (30°)
4 pale green to cream to porc wh (level 2) local pink, vuggy zones 72 speckled w. cpy; ep tour cpy>
5 qtz-ach hem clots (20°) vein 110 fr & dissem dk colored areas (ser?) chl ± cpy fr 35°, 20° with bn (20° fr)
Tour-chl fr 45° qtz-ep vein (15°) some bn
chl-ep-tour fr 70°
6 Intense altn yell grn for 2' then ol. green (2) + tails off grad. to white (1-2) to almost fresh loc. after 120.
7 Qtz vein (20°) actn-ep fr (60°) chl-ser-qtz-ep-
Bleached zones adj to fr (10°, 60°), chl ± bn fr (10°), MoS_2 1/16" vein w. bleach halo (45°)
Bn-cpy-ep-chl fr (0°) qtz vein w cg Sabbed kspar x's (10°)
zones w dissem spec hem-ep-chl.
actn. ± cpy vein (30°) bleach halo - actn. rad. fabrics
8 almost fresh; loc pink (2)

1M-572-3322

HIGHLAND VALLEY DRILL LOG SHEET

Hole 70-229 Date Aug 6/72
cloudy & cool now

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	Mn/Fe/Tic	Mn/Fe	Qtz.-Ser. Zones	MoS_2	Rock Type	Comments
					pink	grn								
9 181-204	lg-	—	–	≈	2l	2l	wh 1-2 p	–	fr ch	2	–	✓ trace	5	
11 228-250	lg	7	–	<	2l	grn wh 1-2p	grn & wh	–	fr chl	1	20	✓	5	
13 273-297	lg-	7	–	≥	olive after 290	ol grn 2-3 278	grn wh (1-2) 278-290		fr chl ser	0.5	–	✓	5	local yell green (3) in shear
15 321-344	lg-	5	–	≤	pink 2l	yell grn 3l	wh 2l	–	"	1	10	✓½	5 Ap	yell grn (3) after 341

9 chl-ep fr 10° cut by chl-bn fr (30°)
chl-cpy-bn fr 10°, 35° qtz-chl-bn-some cpy (30-35°)
ep-bn-some MoS_2 (10°) chl-cpy fr 10°

10 wh-grnish wh (2) to 213 pink (2) to 218 then 224 altn
olgreen (level 2) with a zone 223-226 of yell grn (3)

11 qtz-ep veins 30° (u. bleached white) 230
localized shatter zones & healed by tour-qtz-ep
ep replacement vein 30° chl fr 30°
qtz ser-tour-bn vein (30°) in shatter zone
qtz-ep-ock hem-tour?-chl? repl. zones (35°)
qtz-MoS_2 vein (40°) chl-bn fr 0° qtz-ep-bn-
qtz-ep vein 30° cut by tour vein (0°) MoS_2 zone (30°)

12 olive green altn (2p) after 253
gouge 295 sheared qtz vein (35°) ~~bn~~ with cpy in parallel fr
13 in adj alt. c.r. ; qtz vein w. spec-cpy-bn (35°) has dissem
spec hem.-ser-bn in alt. c.r. ock hem-chl-cpy fr (20, 30°)
qtz-ep MoS_2 vein (80°) qtz-bn-chl fr (30°)
14 wh (2p) to 310 then green + pink 2p ep tour MoS_2 ½
qtz-MoS_2 30° vein cut by (?) qtz-ep-MoS_2 zone sheared
15 Ap stringers & have graphic zones - one cuts off a qtz-
MoS_2-bn w. qtz-ser borders (locally) 10° for vein + shear stripes.

HIGHLAND VALLEY DRILL LOG SHEET

Hole 70-229 Date Aug 6/73

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	In a fr	Min fr	Qtz.-Ser. Zones	MoS_2	Rock Type	Comments
17 373-397	vlg	5	-	?	ol. grn 2-3 often	yell-wh 3 to	392	-	ser	5	—	½	5	I think
19 418-442	vlg	10	-	≈	-	ol grn 2-3 p	-	-	chl ser	2	10	✓	5	
21 464-487	lg	20	-	✓	Half? Half	yell (2-3) pink and (2)	green	11	2	2	—	5		
23 515-539	vlg	3	-	<	-	grn 2l	yell 2-3 p	-	ser	5	-	✓	?	
25 563-586	vlg	5	—	?	-	yell-white 3p	-	ser	10	10	✓	?		

16 yell altn (2-3 p) loc green (2) qtz-MoS_2 veins (10 & 30°)

17 carbonate veins 350 in yell zone qtz ∧ MoS_2 och hem. vein 20° (MoS_2 in streaks)

qtz-och. hem veins + zones [mylonite zone (?) 30°]

18 altn cases to grn-wh 1-2 p by 400 Min fr 1' C.R. 5

19 [Gouge 421-2] ser fr 30° ±bn carbonate (50°) cuts ∧ och. hematite-qtz (30°), qtz xlline cal (pinkish wh)-tour vein 30°

qtz-MoS_2-cpy w. qtz-ser borders (30°)

20 qtz-bn-cpy vein w. ser-qtz halos (10-30°) - 2' apart

overall altn yell (2-3p), ol. green (2l) prob. 5

21 Calcite (35°) qtz-och. hem. (45°) Barren qtz

qtz-bn-cpy (20°?) qtz-cpy ±bn w. qtz-ser-cpy halos (20° avg). 470

22 altn yell (2-3p) green (1-2l)

23 qtz-tour ±cp (70°); qtz-cp-och. hem clots qtz-bn vein (60°)

qtz-och. hem betwn frags in bxtd zone qtz vein 45°

qtz-cp-chl betwn frags in ~~bxtd~~ bxtd zone

24 yell + yell grn (2-3p) Gouge 572, ~~after~~ 578 qtz-MoS_2 (25°)

25 qtz-tour veins (45°) Tour clots in fractured rock (shattered) och. hem 0, 35° qtz-cct w qtz-ser cct halos (25°)

1M-572-3322

HIGHLAND VALLEY DRILL LOG SHEET

Hole 70-229 Date Aug 6/73

Cloudy, sunny, breezy now

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	% of fr	% in fr	Qtz.-Ser. Zones	MoS_2	Rock Type	Comments
27 609-631	lg-	10	–	✓	wh 1-2 on fresh		2-3 to 623	623	ser chl	3	10	✓	5	
29 654-676	vlg	–	–	?	pink 2l	wh (1) to fresh		✓	chl ser	10	–	✓ ~~rare~~	5	
31 699-720	vlg	10	–	✓?	2p	–	–	–	ser	Tour 0.3	–	–	5?	locally, the rock as bx
33 743-765	lg-	5	–	# ✓	yell to 747 then mixed pink & wh + green			Some 2-3	ser	" 0.5	10	–	5?	

26. qtz-bn-ser ~~zone~~ vein w qtz-ser halo
altn cases to yell 2 then after 590 is ch → grnish wh (1-2p) 587
C.R. is 5 with ap. stringers – yell alt rock Naloo?

27 qtz-och hem 30° veins wh. xline cal (10°)
qtz-ser-cpy-bn fr (10°) qtz-cp-spec. w qtz-ser halo (20°)
Tour clots qtz-ser (not flaky) och hem 40° veins
qtz-cpy-MoS_2 vein (30°) qtz-cpy w. ser qtz halos (20°)
qtz-tour veins 60°, 70°

28 creamy white altn (2p) fresh (l) cp, tour

29 [local gougy zones] qtz-tour veins (75°)
qtz-cp veins 50° Tour on fr faces w. bleach halos (80)

30 altn like 29 Tour rel. prominent vlg cp. present

31 [gougy throughout] qtz-tour veins (50°) ~~[illegible]~~ qtz-tour fr (50) cut barren qtz (15°) Some tour brq fr.
carry cpy or cp Naloo (these "fr" range up to 1/8" wide)

32 like 31 to 730 then yell or green altn (2-3) – Tour veins + fr fillings much less common after 730
Rock is locally bx w. tour qtz matrix
[gougy 722-727] [743-747]

33 Lots of tour fr, veins + blebs. qtz-tour veins 30, 45 ± och hem. 765
carbonate 45° (30→50°) qtz-cpy-bn 45° vein qtz-ser halos

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HIGHLAND VALLEY DRILL LOG SHEET

Hole 70-229 Date Aug 6/73
Cloudy, 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 afic	min fr	Qtz.-Ser. Zones	MoS_2	Rock Type	Comments
						grn	wh							
35 790-813	vlg	–	–	?	–	2-3 Half red	pink 2-3	–	chl	0.5	–	–	5	at least in part
37 834-856	vlg	10	–	? ≈	–	variously pink, grn, wh (2-3)			chl ser	6.8	10	✓	5 AP	
39 880-903	vlg	20	–	?	pink 2 l	yell 2-3 ~~yell~~	yell wh 2-3	–	ser	0.5	–	–	5	at least in part
40 903-918	pink and yell. altn (2-3) Tour vein bx – even some post –													
	tour. tectonic breccia													

34 Lots of tour veining & pink + green altn (2) to 780 then green altn and fewer tour veins [Gouge 787-790] 768)
The early part should prob. be called BRECCIA

35 qtz - ~~ser~~ tour in fr + as ~~bx~~ matrix; ~~ep~~ ep and/or chl. sometimes with qtz-tour.

36 aplite stringers (45°) in skeena. Tour veins in ap. also qtz-cpy-bn veins w qtz-ser halos (low %) in tour-poor areas. Half pink (2) half greenish wh (2)

37 Qtz-tour-ep veins + infilling betwn bx frags
Qtz-cpy-bn w. qtz-ser halo 0°
Tour-qtz cuts CR + aplite
Tour-qtz3 (tour in vein cores) MoS_2 w. qtz-ser halos (10°)
qtz-ser zones (45°) cut by tour fr (60°). Tour cut qtz3 (45°)
Bleaching occurs adj. to many of the qtz-tour veins

38 Much the same ie mild altn zones with local tour-rich bx zones 5 to 7' wide

39 [gouge 883-5, 888, 894, 902]
5 tour-rich "Bx zones" each ~3' wide
open space filling carbonate loc. in bx
qtz3 - tour cuts qtz-ach ham calcite

40 [all gouge] ~~yellow~~ shearing low % to core ?? cuts qtz-tour

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104,100

HIGHLAND VALLEY DRILL LOG SHEET

Hole 68-69 Date July 19/73

sections of core missing - hole sampled by Olade (?) Sunny, Hot

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	fr. qtz	min fr	Qtz.-Ser. Zones	MoS_2	Rock Type	Comments
2 34-54	19	–	–	✓	olive grn 2-3 p		–	–	chl ser fr	.5	10	✓	5	
4 74-92	19-	10	–	≥? ✓	ol. grn to 90-then ↗	grey wh 1-2 p	–	–	ser chl fr.	2	–	✓	5	
6 125-146	19	–	✓ fairly abund	✓	cream to green 1-2	wh 1-2	–	–	fr. chl	2	1.5	–	5	occasional cg chalcoid zones
8 168-191	19	20	–	✓	2 p	pink 2l	–	–	chl	.7	4	✓	5	I think but qtz added to esp in pink zone
10 212-233	19-	–	–	≥ ✓	pink 1-2 l	–	wh 1-2 p	–	fr. chl	1	–	–	5	

1 15-34 pinkish cream altn (1-2) to 15 then ol. green (3) and gouge to EOBox

2. Gouge ½ of box Rust on fractures
gray aphanitic dyke stringers 30° containing bn-cpy fr 10°
qtz-ser-cpy 10° cpy-MoS_2-ser fr 35° 37

3 Rusty fr altn gen. ol-grn (2)

4 Tour-chl fr 35° qtz-chl-tour ±ep veins 35-50° cream halos
chl-cpy-bn (25°) fr chl-ep fr 20° qtz-cpy-MoS_2 vein

5 box stuck - the one bit of the one row of core left I could see was arg altn (1-2)

6 qtz-ser-cpy-py zones (0°-10°) qtz-cpy-py veins w. qtz-ser halos 10°
" " -cpy = bn " 10°
chl-tour fr. 20°, 35°
ol-tour-ep fr 35° aplite-graphic granite stringers peg. pods 35°

7 Pink + green altn 1-2 p. Sim. to 6 otherwise

8 qtz-ser-cpy zone qtz-cpy-MoS_2-bn 30° vein
chl-ser-ach-hem 30° qtz-chl-ep veins + fr 45°
local gouge zones white c.g. calcite 45°

9 210 arg altn (1-2p) ep. fr 35° mafic chl. qtz-ser 20 v/g

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10 chl-ser-ep-cpy fr w. pink halo 10° qtz chl fr (30°) cut. chl-bn fr (20°) 223
chl-bn-cpy fr 10°

HIGHLAND VALLEY DRILL LOG SHEET

Hole 68-68 Date July 19/73

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	% fe	mem fr	Qtz.-Ser. Zones	MoS_2	Rock Type	Comments
11 233-257	lg	5	–	✓	pink 2l	–	wh f-2 p	–	fr chl	1	10	✓	5	
12 257-260						E	O	H						

11 qtz-ep veins (0-10°) & zones w. assoc. pink alt
ep-chl-bn fr 20°
cpy after mafics
qtz-cpy ± MoS_2 (angle unsure)
chl-cpy fr (05°)
qtz-cpy w qtz-ser-cpy halo (0°)

12 only 2' of olive green plag altn (2-3p) ~~chl~~ mafic → ser
257-260 (EOH)
258 starts at 255 I think [removed by sampler]

— EOH —

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104, 100

HIGHLAND VALLEY DRILL LOG SHEET

Hole HU 6 Date Aug 5, 1973

underground hole

Rain in AM Sunny, cum. cloud breezy in aft.

Property HIGHMONT

W. J. McMillan

B.C. Dept. of Mines and Petroleum Resources

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. Bn.	Feldspar Alteration pink	Feldspar Alteration grn	Feldspar Alteration	Feld. Fresh	Mafic	mica fr	Qtz.-Ser. Zones	MoS_2	Rock Type	Comments
1 0 - 31	lg	7	✓	≤	2-3 l	2-3 p	–	–	fr chl ser	1	2	✓	5	at least in part
3 49 - 74	lg	20	–	✓	l2	–	gray wh. 1-2 p	–	fr chl	0.7	1	a bit ✓	5	
5 97 - 120	lg-	5	–	<?	2p after 107	–	" to 107	–	fr chl some ser	0.5	10	✓	5	
7 145 - 166	vlg ~~lg~~	7	–	?	2-3 p to 150	–	1-2p after 150	l?	chl fr	1	20	✓	5	

1 qtz - ser - bn - MoS_2 - cpy zones (50°) bi (?) ser. chl - pyrite - cpy (70°)
qtz - ep vein (25°) cuts qtz - ser - cpy zone (60°) qtz - chl - cpy fr 60°
qtz - chl fr 35° qtz - tour (rad. xl clusters) - ser - some
cpy (35 - 45° appx) qtz - MoS_2 - cpy vein 16 C.R.
3/4" shear zone (qtz - ach. hem fill it - qtz frags)
vuggy qtz vein w. xl terminations

2 altn eases to gray → white (1-2p, 2l) pink l2

3 qtz - ser - cpy 80° qtz - cpy w qtz - ser - cpy halos (85°)
ep - chl - cpy fr 60° qtz - cpy - ser fr also Tour - ep
"sort of bxtd" zone 35° actinolite - chl - ep - cpy - bn fr 20°
qtz - cpy - some MoS_2 (85°) vein qtz - acten - bn fr 40°

4 altn like 3, grade also, loc qtz - ep - cpy - MoS_2 "knots".

5 qtz - bn - chl fr 10, 25° chl - ep - cpy fr (45°) ep fr 35°
calcite 35° qtz, some bn vein 20°
bn - qtz seems to be in vugs in pink altn. zones ← 110
pink zone has mica fr 2" apart but mainly chl - ep
Sort of bx w. qtz - finely dissem MoS_2 vein in bx area with chl - ep - MoS_2 matrix

6 altn pink 2p, 3l Gassy to 125

7 qtz - some bn (25°) cuts qtz - MoS_2 (50°) with assoc chl & ep
chl - ep fr 20, 60° qtz - MoS_2 vein 35° Tour - ep (35°) qtz - ep vein (45°)
Local bx zones in pink altn zone - matrix shot thru w. qtz - chl, some ep 143 qtz - chl - MoS_2 fr 50° cuts qtz - ep (50°)

1M-572-3322

HIGHLAND VALLEY DRILL LOG SHEET

Hole HU 6 Date Aug 5/73

Property Highmont

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

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. Bn.	Feldspar Alteration: pink	Feldspar Alteration: grn	Feldspar Alteration: wh	Feld. Fresh	Min of fr	Min fr	Qtz.-Ser. Zones	MoS_2	Rock Type	Comments
9 186-204	lg-	20	—	✓	see	1-2p after 200	below	—	ser chl	5	not typical types	✓	5	see below probably
11 224-246	lg	20	—	✓ close	2l	2p	—	-	fr ser chl	1	4	✓	5	
13 268-282	lg-	—	—	✓ close	pink cream 2-3p after 270	—	fresh (gray or white) 1-2 to 270		fr chl ser	1	4	✓	5	almost 4 locally
15 301-320	lg	20	-	<	pink & green 2l	grn wh 2l	—		fr chl ser	1	3	-	5	

8 wh altn 1-2p to 165 then pink 170 2p, 3l with green 2 at end of box

9 Variously ol. grn (2-3) yell grn (3) white (3) to 200
qtz - MoS_2 with ep core vein 70° calcite 70°
yell zone has wh calcite veins 35° + streaks of cct (?) often cpy (?)
wh. " has dissem. pockets of ser-cpy (are probably zones between frags in a cataclastic rock. Bn - ser fr 30°

10 overall green 2p some qtz - cpy - bn - MoS_2 veins + qtz - ser veins. In sample qtz - bn - cpy - MoS_2 w. qtz - ser - cpy - bn halo (70°) cuts cpy - bn - ach hem ± qtz dissem with ser - cpy halo (35°) 220

11 fr w. bn + vfg bl mineral (ser?) (20, 35) (70°) w. pink altn halos → 225
qtz - cpy ± bn some MoS_2 w qtz - ser - cpy ± bn halos (60°) ser - cpy fr 35°
chl - cpy - bn fr (70°) local tour sheets along a bleach zone
chl - cpy - bn - MoS_2 fr 30° qtz - ser ± bn ± cpy ± MoS_2 fr 35°

12 Pink 2-3p to 265 w. loc green 2-3 then wh. or grn. wh. 1-2p
Rubbly to 250-260 — qtz - ach hem zone cut by qtz - ser - bn zone
13 qtz - chl - cpy - bn fr 70° qtz - ep vein 60°; ep - bn - qtz fr (70°)
qtz - bn - ep - actin. - cpy vein 70° (cut by ☒ with pink altn halo
qtz - MoS_2 - ep - bn 60° offset by qtz - ep fr (20°)
chl - cpy fr (60°) cut by qtz - ep fr (50°) qtz - ser - cpy - bn - MoS_2 70°
qtz - cpy w qtz - ser - cpy rim (45°) Rubbly 277-282

14 pink cont. to 280 then wh 1-2p ep. tour 10°

15 Bn - ser blebs w qtz - ser - bn halos (40°) qtz - ep 40°, actin - ep - cpy fr (20°)

1M-572-3322

HIGHLAND VALLEY DRILL LOG SHEET

Hole HU 6 Date Aug 5/73

Property HIGHMONT

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

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. Bn.	Feldspar Alteration Dirk	Feldspar Alteration grn	Feldspar Alteration wh	Feld. Fresh	m af fic	min fr	Qtz.-Ser. Zones	MoS_2	Rock Type	Comments
18 36 - 383	lgt	10	—	≥	2 l	2 l	—	—	chl ser	0.3	loc 1/2 0.2	apart —	5	1st 10 feet not split!
20 406 - 428	v/lg	-	—	?	—	—	yell 3p	—	ser	—	—	—	?	can't get box out
22 449 - 467	v/lg	10 ~~20~~	—	?	—	—	yell 3p	—	ser	?	?	—	5 ??	in part?
— EOH — apparently				quartz - carb vein 35°										
						EOH								

Box 17 missing

16 ~~micro~~ local pink (2) and general Mo Sulf → grn wh (1-2) Tourmaline, ~~Tourmaline~~ MoS_2 Bn > lg?

D1 dyke (tan colored grdmass) - contact 338 - chilled
bi - qtz - plag ppy cut by qtz - cpy - bn vein (40°)

18 qtz - ep veins 40° cut ser - bn + chl - cpy - ser
(occurs as blebs along + adj. to fractures)
qtz - ep - tour with pink halos - branching fr 0, 35° 364
qtz - cpy - bn veins in qtz - ser - cpy - bn altn zones (40°)
Calcite veins 30°

19 Local gouge (6" zones) grnish wh + pink altn (2) to 386 (Skeena)
then yellow altn (3) - Rock type in yell uncertain - large
qtz eyes loc; elsewhere looks like bleached Skeena

20 qtz - ch hem (0°) cut by white xline calcite
Tour sheafs 410

21 yell altn (3) generally, but loc greenish yell (2-3)
(v/lg) and one small zone of green t-2 (Skeena)
qtz eyes suggest dyke in part (esp 428 - 432)
ch hem + cal veins 20 - 30° v. common ~~[illegible]~~
~~gouge~~ 440 - 445 last 3 feet ~~[illegible]~~ of box
slickensides 60° to axis of core in ch hem
smeared on calcite

22 80% gouge white xline calcite — EOH —

1M-572-3322

104,100

HIGHLAND VALLEY DRILL LOG SHEET

Hole 70-231 Date Aug 2/73
Sunny, warm
slight breeze

Property Highmont

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

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. > Bn.	Feldspar Alteration: pink	Feldspar Alteration: grn wh	Feldspar Alteration:	Feld. Fresh	Mafic	Min. Pr.	Qtz.-Ser. Zones	MoS_2	Rock Type	Comments
1 32-51	vlq	20	–	✓	2l	1-2 p	–	–	chl	2	20	–	5	
3 73-98	lq-	10	–	✓	see	below	–	–	chl	.7	20	–	5	
5 119-141	lq-	10	–	✓	pink + green gft.	wh, grn wh (1) tons 125	–		chl ser	1	20	✓?	5	
7 164-188	lq	5	–	≈	ol. grn to 180 2-3p	yell grn after 180	(2-3)		chl ser	2	5	–	5	
9 211-234	lq-	10	–	✓	pale to yellowish ol. grn 2-3p	–	–		chl ser	2	–	✓	5	

1 qtz-ser-cpy-bn fr 30° (not flaky) Xline wh calcite-chl vein 10-20°
chl ± cpy 0°

2 grnish white altn 1-2p qtz-cpy, qtz-bn veinlets pyrite
vlq Skeena

3 Fs altn green (2) then yellow grnish yell (2) then
white to gray (1-2) with loc. pink (2)
qtz-tour veins 20° ser-bn pockets on fr
qtz-tour ± cpy ± orch hem ± epidote 30°, 0-20°, 80
chl-cpy ± qtz fr 0°, 45°, 60° qtz-ser-cpy 10°

4 Gray-grnish wh (1-2p) chl-py-some cpy 0°, younger calcite in same fr.

5 chl-cpy (0°) ser-cpy (0°)
qtz-cpy-chl fr 0-20°
ep-chl-cpy (ep. may be younger ??) 35° qtz-~~cpy~~ cct? -cpy 35°
chl-cpy-bn 10° qtz-bn-MoS_2 (?)-chl (30°) vein (1/8" wide)

6 pale olive green altn (2-3p) MoS_2 present 140

7 qtz-cct (10°) veins qtz-ser-cct 10° veins orch. hem fr 0-10°
qtz-cpy-bn-ser vein (10°) (flaky)

8 mainly pale ol. green altn (2)

9 qtz-MoS_2 ± cpy veins 50° Tour-cpy-bn blebs
chl-cpy fr (low %) 231

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Grange 223-226

HIGHLAND VALLEY DRILL LOG SHEET

Hole 70-231 Date Aug 2/73

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 of fe	min fe	Qtz.-Ser. Zones	MoS_2	Rock Type	Comments
11 256-279	lg	7	–	✓		2p	–	–	ser (chl)	2	20	✓	5	?
13 300-323	lg	4	–	✓	pink 2-3	2l	–	–	ser	1	20	✓✓	?	too altered to say at least in part
15 343-364	lg-	10	–	?	wh to grn ish wh (2p)				chl	?	–	✓	5	
17 385-409	lg-	7	–	?	effer	bl grn 2-3 395	yell 2-3 p to 395		ser	1½	–	✓	?	5?

10 altn - greenish wh (1-2) gives way to intense yell to yell-grn near end of box

11 local rubble zones ±qtz-tour fr 10°
qtz - MoS_2 - cpy veins (bonanza-type) w. occas. moderating tour-cpy pods
qtz-ser-bn vein (30°) 262

12 Half the box is sandy gouge; pink to green fs altn (2-3 p) in the more massive sections of core

13 qtz - MoS_2 35° ser - cpy fr. ~10° ser - MoS_2 fr. 35°
loc. bn on vein borders qtz - cpy - MoS_2 vein 50° in 317
pink alt. rock w. disseminated cpy ± bn pods
qtz - cpy - ser - ochr. hem. (35°) fr

14 almost all gouge (shear low & to core) - more massive zones have mild to mod. arg altn w/ fic → chl

15 chl - tour fr 0° qtz - tour - MoS_2 (?) MoS_2 - chl fr. (35°)
almost all gouge

16 pink aplite ~364 to ~371 - pyrite on fr, qtz - cpy pods
50% gouge yell altn (2-3) generally
qtz - ser - cpy vein (10°)

17 qtz - cpy - bn vein 25° MoS_2 fr 35° qtz - cct veins & fr 0°, 45°
calcite vein 25° qtz - ep - cpy vein 50°

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HIGHLAND VALLEY DRILL LOG SHEET

Hole 70-231 Date Aug 2/73

√½ fairly prominent

Property HIGHMONT

W. J. McMillan

B.C. Dept. of Mines and Petroleum Resources

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. > Bn.	Feldspar Alteration: pink	Feldspar Alteration: grn	Feldspar Alteration: wh	Feld. Fresh	mg or fic	min fr	Qtz.-Ser. Zones	MoS_2	Rock Type	Comments
19 432-454	lg-	10	√½	≥	2l after 447	2l	to gray 1-2 to 447		fr chl	1	10	√	5	
21 478-500	lg+	10	√	√√	-	yell. 2-3 p	grn wh 1-2 p	-	chl ser	2	1	√	5	probably
23 523-546	lg	5	-	Bn >	-	2-3 p	-	-	ser	2	5	√	5	"
25 569-592	lg	20	-	√	pink + green 1-2 p		-	-	chl	2	7	√	5	

18 altn grad easing to ol. grn 1-2 but loc yell + grn 3 some pyrite

19 chl-cpy fr 10° qtz-ser-cpy vein 10° qtz-MoS_2 vein 40° bn-cpy-ser(?) fr 80° cuts (?) qtz-ser-cpy-bn vein (05°) qtz-tour-MoS_2 ? cct ? @ 35° veins 435

20 Beautiful ½" wide ~~qtz-ser-cpy~~ qtz-cpy w. qtz-ser halos veins (lg+) subparallel to core & qtz-ser-cct veins and quartz w. some cpy + MoS_2 and qtz-ser-py veins all subpar. to core

21 5 im. to 20 to 491'. One qtz-cpy vein has kspar(?)-tour pockets qtz-cpy-MoS_2 with ser-MoS_2 pockets adj. to vein zones with pockets of ser-cpy-MoS_2 (40°(?)) 498

22 yell altn (2-3p) amber zoisite xls at 510 → 510

23 Qtz-MoS_2-bn @ 30° qtz-bn-cpy w. qtz-ser-halos (10°) aplite w pockets of tour, MoS_2 @ 539 (bx at contact) altn essec to pink and/or green (2) after 525; Tour-ep pockets

24 Bonanza qtz-cpy-MoS_2 w qtz-ser halos (low+)

25 qtz-cpy ± MoS_2 w. ser halos (10°) qtz-chl-cpy vein 25°, ep. fr 10°

1M-572-3322

HIGHLAND VALLEY DRILL LOG SHEET

Hole 70-231 Date Aug 2/73

Property HIGHMONT

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

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. > Bn.	Feldspar Alteration: Pink		Feldspar Alteration: Wh to gray	Feld. Fresh	ser & fic	men fr	Qtz.-Ser. Zones	MoS_2	Rock Type	Comments
27 615-639	lg-	20	-	✓	—	yell 3p	1-2 p	—	fr chl	3	7	-	5	
29 661-685	vlg	—	—	? ✓	yellow and pink 3p after 663		1-2 to 663	—	ser och hem	0.2	—	—	5 ?	men fr mainly och hem
31 708-731	vlg	—	—	?	pink 2p	yell 2-3p	—	—	ser	2	-	—	5	
33 769-780	vlg	-	-	? ≤	-	—	wh 1-2 p	—	chl	1	20	½	5	

26 mild "argillic altn" - mostly pale green some pink (pink is locally intensity 2)

27 Gouge 633 onward qtz - tour 0° (vein 1/16") qtz - cpy - och hem w ser - qtz halo then pink ish tan altered c.R. bn - chl fr 0°

28 Pink altn (2) (one bit of aplite w. graphic zones) to 658 then mild arg altn.

29 Obvious hem. 0°, 45°, 10°, 30° 675
cct fr. (low angle) white xline calcite (45°) vein

30 Yell altn to 700 then wh. to greenish white arg altn (1-2p)

31 Calcite zone, almost bx 713 alt. c.R.
ser - cct fr 0°, 15° 730 yell grn mineral (?)

32 Gouge to 750 by 755 altn wh. → pale green (1-2) mafic → chl

33 chl - cpy - MoS_2 fr 35° qtz - bn - cpy vein (35°) w. ~~green~~ pink halo
ser. - qtz - bn zone has xline qtz (tourmalinated xls) in core
actinolite - chl fr 15°

34 Gouge, xline cal. veins qtz - epd vein all near 800 with assoc pink altn 798-802
otherwise like 33

1M-572-3322

HIGHLAND VALLEY DRILL LOG SHEET

Hole 70-231 Date Aug 21 1973

Property HIGHMONT

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

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. > Bn.	Feldspar Alteration: pink	Feldspar Alteration: wh	Feld. Fresh	m a fic	m in fr	Qtz.-Ser. Zones	MoS_2	Rock Type	Comments
35 805–829	vlg	–	–	< ?	+green 2p 810–820	1-2 p	–	fr chl	1	–	–	5	
37 852–874	lg	10	–	≈	pink + green 2p after 857	1-2 p to 857	–	chl	0.7	–	✓	5	
39 896–918	vlg	10	–	< ?	1-2 p	1-2 p	–	chl	1	20	–	5	
41 940–963	vlg	–	–	< ?	pink 1-2 p	–	1-2 p	–	fr chl loc ser.	2	–	✓	5
					pink 2-3 p	–	1-2 p	–					

35 pink zeolite fr. 50° chl. fr 35, 45°, 20°
epidote - calcite 20° Bn - chl - cct fr 35° 820

36 arg altn (wh → gray) 1-2p

37 chl - bn fr 10° calcite vein 35° qtz - bn - cpy vein (1/32") @ 35°
chl - bn - cpy fr 10°, 30°, 45° chl - bn. MoS_2 ? cct ? 10°
qtz - MoS_2 - bn - cal pods 45° chl - ep fr. (20°)
cpy - tour - och. hem fr. (30°) have bleached halos

38 Half pink altn - half argillic one 6" ∧ Bonanza qtz - MoS_2 veins @ 35°
qtz - ser - some bn adjac to qtz - tour vein 20° 917
qtz - chl - bn fr (30°) 905 C.R.

39 chl - cpy fr 10° Calcite - och - hem. (5°) vein
qtz - ser - some bn
qtz - chl - bn fr (30°)

40 loc. hg qtz - bn - cpy veins w. qtz. ser. halos
ol. green altn 2-3p ocherous hem. in sheared-looking zones

41 chl - MoS_2 fr 35° ∧ younger calcite vein on same fracture
qtz - ep - chl vein 50° chl - cpy fr (25°) ser - cpy - bn fr (10°)
chl fr. (10°)

42. Overall wh - gray 1-2p. Local qtz - cpy ± bn veins
w qtz - ser - cpy halos qtz - ser zones 7 CPY > BN lg -

1M-572-3322

HIGHLAND VALLEY DRILL LOG SHEET

Hole 70-231 Date Aug 2 1973

450n Aug 4/73 Sunny wispy clouds, Hot

Property HIGHMONT

W. J. McMillan

B.C. Dept. of Mines and Petroleum Resources

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. > Bn.	Feldspar Alteration: pink		Feldspar Alteration: wh-gray	Feld. Fresh	% of frag	% in fr	Qtz.-Ser. Zones	MoS_2	Rock Type	Comments
43 981-1009	v/g	20	–	Bn>	kspar 2-3 l		1-2 p	–	chl	1	10	✓	5	
45 1032-1057	lg-	20	–	✓	–	–	1 p	l	fr chl	1	–	–	5	
47 1082-1100	v/g	–	–	Bn> ?	pink + green (2) adj. to some fr.		1-2 p	–	fr fel (10%)	1	–	–	5	
					E	O	H							

43 qtz-chl-cpy vein (10°) chl-cpy-bn fr. 20°, 35°
chl-ep-MoS_2-qtz ? (45°) chl-ep-bn (10°) fr
chl-tour-bn fr (10°)
sample fm pink altn zone - vuggy, ep clts 995

44 greenish white altn (2) after 1018 pink altn (2) to 1018
chl-cp fr 35° chl-bn fr 35°

45 1035-1037 Gouggy
qtz-chl-cpy fr 0, 30, 35
vuggy qtz vein with qtz-ep fringes 45°
ep-chl vein w pink halo 30°
chl-cpy-bn 0°, 20°
some have assoc pink altn on fr face
bi-chl-cpy fr 10-20° 1046

46 like 45 but local vuggy pink altn zones w. ep in vugs + as fr. fillings; tour present (10-20°, 50°)

47 qtz-chl-ep fr w. pink + grn altn halos (1/4" wide)
vuggy qtz-chl-ep veinlets (some qtz xls have xl terminations) w. bn blebs 30°
chl-cpy fr 20° 1085

1M-572-3322

— EOH —

HIGHLAND VALLEY DRILL LOG SHEET 104, 100

Hole 68-47 Date July 19/73

Sunny, Hot Beautiful

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	in qfic	min fr	Qtz.-Ser. Zones	MoS_2	Rock Type	Comments
							wh							
1 11-31	vlq	-	—	✓	—	ol grn	~~tr~~ 1-2 p	—	fr chl fl	5	—	—	5	
3 57-86	vlq	7	—	✓	after 90	3p	2-3 p to 80	—	chl ser	quess 5	—	—	5	
5 108-130	vlq	10	—	✓	—	--	1-2 p	—	fr chl	1	—	—	5	
7 151-172	lq+	7	—	✓	yell wh 2l	cream +grn 1-2l	wh 1-2 l	—	fr chl ser	1	10	✓ rare	5	almost QEPm
9 195-218	lq	—	✓	✓	—	"	1-2 p	—	fr chl (?)	1	—	—	5	

1 wh arg altn (2-3) on some fr faces (low %)
after 25 - somewhat scuffy + a bit rusty - looking
rust - ser - cpy fr 50° 35° but altn unchanged
2 after 30 is all gaugy + rusty
3 Rust + gaugy to 80, then ~~dk~~ ol-grn altn
calcite veins 30° qtz chrysocolla + qtz-cpy 50° veins
4 green altn to ≈ 90 [Box stuck] then arg(1-2) again
5 qtz - cpy - chl 30°, pinkish halos (slight)
ep. fr. 35° ep-cpy fr 10° qtz - cpy - chl fr 20°
qtz - ep - chl vein 30°
6 ol. green altn 2-3p - gouge 142 - 144 (30°?)
some och. hem. on fr.
7 Qtz-cp vein 20° qtz - cpy vein (20°) 1/16" cpy-ser fr 0°
cpy-cpy fr (60°) " " 160 " (50°) 2" some MoS_2?
stockwork (loc) of rusty carbonate veins (younger than qtz - cpy)
8 Good 5 190 mild arg - pink altn
few qtz veins more min fr. grade lq-
-fg speculerite
9 Qtz - chl - ep - cpy fr 10°
qtz - chl - pyrite ± cpy 25°

1M-572-3322

HIGHLAND VALLEY DRILL LOG SHEET

Hole 68-47 Date July 19/73

Property HIGHMONT

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

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. > Bn.	Feldspar Alteration: pink		wh	Feld. Fresh	m o fic	min fr.	Qtz.-Ser. Zones	MoS_2	Rock Type	Comments
11 240-264	lg	20	✓	✓	l2 mean qtz ep	–	1-2 p	–	fr chl	0.5	–	–	5	Not for fm being Bm
13	Box		stuck											
14 305-325	lg-	20	–	✓	l2 to 3/8	ol grn 2-3p to 3/8 after	1-2 p	–	fr chl ser	2	–	✓	5	
16 347-369	vlg	–	✓	✓	–	grn l2	1-2 p	–	fr chl	1	–	–	5	
18 392-416		20	–	✓?	–	ol. grn 2l 1-2l	–	–	chl ser loc. ep	3	–	✓	5	

10 fractures (30°) have arg altn (white) (3)
overall arg 1-2p pyrite

11 qtz - MoS_2 - cpy vein 50° chl - cpy - py fr 35°
qtz - ser - py (10°) vein (pyrite after mafic nearby)

12 Box stack - what I can see suggests arg 1-2p 240

13 apparently sim to 11 qtz

14 Qtz - ep 35° veins 1/32" qtz - chl - ep - cpy w. pyrite
calcite 30° bolas 25°

Qtz with MoS_2 + cpy stringers (80°)

15 altn drops back to arg (2p) and mafic predom → chl
cpy >

qtz - ser - cpy - pyrite fr (05°)

16 348 chl fr 10-20°
qtz - chl - cpy - bn fr 35° offsets qtz - ep vein (1/16 wide) @ 45°
chl - pyrite - cpy @ 30°

17 MoS_2 - qtz vein altn olive green 2-3p

18 1M-572-3322 qtz - ep vein 45° chl - bn - cpy fr 35°
qtz - ser - cpy fr 35° 413

HIGHLAND VALLEY DRILL LOG SHEET

Hole 68-47 Date July 19/73

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 a fic	min fr	Qtz.-Ser. Zones	MoS_2	Rock Type	Comments
20 439-460	lg-	–	✓	✓	pink tgrn 2l	ol grn 2l	–	–	chl ser	2	20	✓	5	
22 481-504	lg+	20	✓	✓	–	ol grn 2-3 l	wh 1-2 l	–	chl ser	.3	20	–	5	

19 Crystalline calcite veins w. qtz xls growing into vugs in their cores
altn like 18 green with intense to mild/moderate zones

20 qtz - MoS_2 - cpy w qtz - ser - cpy hole 35° chl-cpy fr 35°
qtz - ser bn fr with pink halos 30° qtz-ep. vein 40°
pyrite - cpy fr 35° qtz - ser - chl - cpy vein

21 Shear zone 467 - 470 overall altn (2) olivegreen
In shear pale greenish - whitish yellow (3).

22 cpy - chl fr 35° cut by cpy - chl fr 35° (other way)
qtz - chl - cpy 10° vein chl-cpy (30° 40°) fr.
loc. mon. fr. 2" apart in green altn zone + in "fresh" zone qtz - pyrite - cpy 20° vein
qtz - cpy w. pink halo @ 30°

484

1M-572-3322 That's it for this trip - it is Victoria-heading time.

HIGHLAND VALLEY DRILL LOG SHEET

Hole 68-47 Date Aug 2/73

Sunny, Hot

Property HIGHMONT W. J. McMillan "Perfect"

B.C. Dept. of Mines and Petroleum Resources

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. > Bn.	Feldspar Alteration: ol grn	Feldspar Alteration: grn wh	Feldspar Alteration: sh white	Feld. Fresh	m a fic	m a fic	Qtz.-Ser. Zones	MoS_2	Rock Type	Comments
23 504-526	vlg	20	✓	✓	505-518 3p	2p elsewhere		—	ser chl	3	—	✓	→	possibly qtz-eye bm
25 547-571	lg+	20	—	✓	pink grn-wh 2l	or wh in dyke	wh 1-2p in c.r.	—	chl ser	1/4" l over-all 1'	only ser-cpy 20	✓	dyke then is ce	? to 560 5. The "dyke" Hb-plag rock DIORITE
27 594-615	vlg	—	✓	≈	see below			—	fr chl ser	1	—	—	5	qtz enlarged in yellow +
														dl. green alteration zones

23 py-cpy-chl fr 0→15°, 45°, 60° calcite veins 30° 520
qtz-cpy-py(?) fr 25° pyrite-ser fr 25°

24 local rubbly zones, otherwise like 23 to 535 then get yell brown fs altn, esp. near gauge zones. The rock then is qtz-free, mafic → chl + ach. hem [after spec?] + is closely fractured w. cpy on fr. Fs altn arg (2-3p)
(qtz-cpy-iron oxide) cpy repl. mafics also grade lg+
where it is fresher, the rock type is same but mentgn down.
an odd dyke? 540

25 loc. bonanza qtz-cpy-MoS_2 veins post-min. calcite 0°
cpy-qtz fr 45° cpy also dissem pods in altered rock (outward from fr)
one zone (20°) permeated w. ser (fg but flaky)-cpy (seems to be cut by mentlzd fr). less alt zones in "dyke" cpy after chl mafics - calcite veins 0, 35° - Near 560, alt. dyke has dissem. pods of cpy + bn (separate or intergrown, also repl. mafics) + qtz-bn-cpy fr (20°) Contact zone cpy-qtz-MoS_2 fr, cpy MoS_2 pods C.R. qtz-chl-cpy-bn-MoS_2 fr 30°; cpy-chl 30°
549 553

26 Skeena grn-wh altn 1-2p pyrite-chl ± cpy fr 10° (lg-)

27 Gouge 614.6 → yell → golden brn p/lg altn 610 → 614.6
ol. grn fs altn 2-3p 603-610 pink and/or green 1-2p to 603
calcite veins 0 → 20° chl ± cpy fr 20°
bn-chl ± cpy fr 20° chl-cpy-py fr 20°

1M-572-3322

HIGHLAND VALLEY DRILL LOG SHEET

Hole 68-47 Date Aug 2/73

Property HIGHMONT

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

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. > Bn.	Feldspar Alteration: pink	Feldspar Alteration: yell. grn	Feldspar Alteration: grn wh	Feld. Fresh	m or fe	min fe	Qtz.-Ser. Zones	MoS_2	Rock Type	Comments
29 640-661	lg	10	—	✓	2l	2l	1-2 l	—	fr chl ser	1	—	✓	5	
31 683-709	vlg	—	✓	✓	see below			—	fr chl ser	1½	20	—	5	aplite stringer
33 732-755	vlg	20	—	≥	1-2 l	yell 2-3 l	1-2 l		chl ser		—	—	5	
— EOH														

28 qtz-cpy fr 10°; gouge + yell. fs altn throughout 619
vlg

29 chl-bn fr 0-10° chl-cpy fr 20° chl-bn-cpy fr 20°
Bonanza qtz-cpy-MoS_2 some bn (20°) cut by ock hem veinlets (30°) one peg. qtz-kspar pod seen; chl. fr 25°

30 Box stack apparently from ~670 on altn is yell (2p) & bleaching
To there ~ pink + green (1-2p)

31 Gouge to 703 in this area altn pink, green or
~ bleached qtz plag aplite
para. white (2-3) ~~the~~ after 703 gray → grnish wh (1-2p)
qtz-ser-tour-py.-cpy vein in aplite (10°)
ser-cpy-chl fr 45° ser-cpy fr 10° qtz-cpy fr. 10°

32 mafic → ser, chl, fr; cpy after ser. mafic locally
C.R. skarn arg altn (1-2p) ser-cpy fr (with
local pods in (10°) pyrite fr (15°)

33 chl-cpy-bn fr (35°, 10°, 20°)
calcite veins 0°, 35°, 20° qtz-cp vein 35° bi-ser-bn fr 25°

1M-572-3322

— EOH —

HIGHLAND VALLEY DRILL LOG SHEET

104,100

Hole 68-48 Date Aug 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	mafic	min	Qtz.-Ser. Zones	MoS_2	Rock Type	Comments
1 12-28	vlg	-	-	?	See				fr chl	-	-	-	5	nearly 4
2 - 50	vlg	-	-	?	below					-	-	-	5	
3 - 73	vlg	-	-	✓						po	-	-	5	
					—	E	O	H	—					

1. Tour altn - white (1-2p) vlg mafic-fr, chl rest
2. Sk (almost bm) ap. stringers 45° 29 CR
malachite vlg
3. White (1-2) to bl then ol. green (2) vlg
[Short gouge zones 61, 73] qtz-chl-cpy fr (20°)

— EOH —

1M-572-3322

104,100

HIGHLAND VALLEY DRILL LOG SHEET

Hole 70-233 Date Aug 4/73

cloudy, cool

Property HIGHMONT

W. J. McMillan now 10:40 AM

B.C. Dept. of Mines and Petroleum Resources

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. > Bn.	Feldspar Alteration pink	Grn	wh	Feld. Fresh	m & fr	m in fr	Qtz.-Ser. Zones	MoS_2	Rock Type	Comments
1 5-24	v/g	–	–	✓ no Bn	–	–	1-2 p	l	fr chl (pos)	1	–	–	5	
3 43-65	lg-	–	–	✓✓	–	ol. grn l2-3	2p	–	fr chl ser	1	7	–	5	
5 87-107	lg	10	–	✓✓	l2	greenish white 1-2p		–	chl ser	2	–	–	5	
7 131-156	v/g	–	–	Bn? ?	–	green 2p	–	–	fr ser	? 3	20	–	5	I think it's definite
9 178-205	v/g	7	–	✓?	2l	ol. to yell. grn. to 190.	wh. grn 2l emerald green 3l		fr. chl ser	1½	–	–	5	

1 Rusty fr - not sure what oxides other than limonite
fr have chl + cpy locally (where not oxidized) 35°
chl - ep. fr. 55° qtz - ep - chl ± cpy 45°-50°

2 like 1, still in oxidized zone

3 oxidized zone still; after 59' altn ol. green 2-3p to 63
qtz vein m. qtz - ser - cpy zone (45°) chl - cpy fr (20°)
qtz - chl - cpy veins 30° ser fr 0° chl - tour fr (20°)
Gouge at 59-59½ local porc. wh altn (2) w. dissem. cpy

4. mixed wh argillic (2) pale green to ol green & pink (K spar?) 80

5 chl fr 0° 60°, 45° chl fr scattered w. ser - bn blebs on the fr. face 10°
qtz ± chl - cpy ± bn vein (25°) w. pink halo dissem - cpy in ol. grn altn zones

6 loc. tour. brg yell. altn zones, one bx zone in yell altn has qtz - MoS_2
overall grnish wh. (1-2p) mafic → chl, ser ↑ - - - v/g

7 133-152 almost all gouge sand - pebble size, loc. more massive zones
some bn - ser patches on fr 25°

8 aplite stringers w. peg pods 35° which have qtz segregns
Tour - bn fr 20°, MoS_2 fr 30°

9 Gouge 179-184 qtz-chl-ep ± cpy 25° 60° fr 170 altn
local pink "altn zones" - rock permeated by qtz - K spar
aplite w. graphic zones, qtz segns 70° qtz-chl-bn fr 25° lots of qtz added
open space filling vuggy qtz vein 70° qtz - cpy 60° calcite 45, 30° 188

1M-572-3322

HIGHLAND VALLEY DRILL LOG SHEET

Hole 70-233 Date Aug 4/73

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	Mafic	Min	Qtz.-Ser. Zones	MoS_2	Rock Type	Comments
					pink									
11 227-249	v/g	20	–	✓	–	ol. grn 2-3p to 245	grnish wh 2p to 249	–	chl fr	0.1	20	✓	5	at least in part
13 272-293	lg-	20	–	≃ ?	pink x green 2l		wh-gray 1-2p	–	fr chl	0.7	–	–	5	
15 317-341	lg	20	–	≥	–	–	"	–	fr chl	1.5	7	–	5	odd. mafic + zones
17 366-390	lg-	–	one xl	✓	pink 2l	–	wh. 1-2p	–	fr chl ser	3	20	✓	5	

10 altn pale green 1-2 and ol green 2-3 about half + half.
11 in the ol. grn zone (unmineralized or chl coated) fr. are loc. 1/8" apart @ 50°
carbonate 25°
bxtd qtz-MoS_2 (finely dissem) cpy vein assoc w zone of ser-qtz-cpy (45°) qtz-ep-ach. hem-chl vein 60°
12 chl-ep fr 15°
wh → grnish wh. fs altn (1-2p) mafic → chl, ep
pink altn (2-3l)
13 Qtz-cpy-chl vein 60° chl-bn-cpy fr 60° chl-ep-cpy fr (50°)
qtz-chl-cpy-bn fr 35° cut sim. veins w. pink halos (80°)
qtz-ep-chl veins 20°, 30°, 60° chalky wh arg altn fr faces 15°
qtz-tourm (50°) cut by qtz-chl fr (30°)
14 Mafic-rich (18%) m-cg blocky Hb --- Chatawaind zone
altn like 13 mafic rich / mafic normal contact 35° 308 → Box end
15 mafic-rich areas in here also but finer grained - more like fg Guichon. 330 C.R. Well developed dark/light "foliation" 35°
local zones v. rich qtz-cpy-bn 70° green flaky ser-qtz-cpy-ach. hem; zone which looks like mafic concn but is pervasive green altn-chl-ser-bn min (15°) cut by qtz-cpy-ach hem vein (60°)
peg. podo-Kspar-qtz-ep-tourm (20°)
1M-572-3322 chl-tourm-ep fr 20° qtz-ep-cpy-bn w qtz-ser-cpy-bn halos (45°)
16 wh altn (1-2p) green (2l) qtz-ser-cpy (45°) " " " zone
17 chl, ep fr qtz-chl-ep-MoS_2 1/16" vein (30°) qtz-tourm-ep-bn 35°

HIGHLAND VALLEY DRILL LOG SHEET

Hole 70-233 Date AUG 4/73

Cloudy, cool, Now 2 PM

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 qr fr c	m lg f	Qtz.-Ser. Zones	MoS_2	Rock Type	Comments
19 413-435	lg	10	–	≥	ol. green 1+ green Half & Half	2 1-2		–	chl ser ep	1.5	7	✓	5	
21 458-481	lg+	20	✓	✓	–	ol. grn 2-3	–	–	ser	3	10 but one wide one	✓	5	
23 507-528	lg-	10	✓	≈ ?	pink, to grn 2 l	ol grn 2 l	wh-gray 1-2 l	–	fr chl ser	3	20	✓	5	
25 549-574	lg-	10	✓ Hare	≈ ?	–	olgrn 2-3 p	yell. 2-3 l	–	ser chl	5	10	✓	5	I think

18 lg- CPY > BN ~~wkg~~ 1-2 to 404 then ol. green (2) to pale grn
mnlzn improves in the ~~green~~ green zone - qtz-chl-cpy
veinlets (15°)

19 qtz-cp-chl-cpy-bn 20°, 10° qtz-cp veins 50°
chl?-ser?-bn repl. out from fracts ie ~~[illegible]~~ 426
qtz-MoS_2-cpy 60 + ?(?) qtz-cpy w qtz-ser-cpy halo 55°
← 1/4" →
some MoS_2?

20 ol grn 2/3 (level 2) Lt green 1/3 (level 1-2)

21 $\boxed{\text{Gougy 460-470}}$ pyrite-cpy-chl fr 0° qtz-cpy-MoS_2-bn (80°) vein
in a 2½' (473-475½) zone (80°) w. qtz-cpy veins + qtz-ser-
cpy. No clear relnship of ser zone + veins
- perhaps veins younger? 474 ↗ qtz-cpy-ser vein (50°)

22 Lt to ol. green (level 2) local pink (2)

23 calcite 0° qtz-ser-pyrite 45° vein (1/16") chl fr (45°)
chl-ep-cpy fr. (30°) qtz-ser-ch. lam.-cpy (0→10°) fr.
qtz-bn-MoS_2 veins (40°) cut by qtz-cp vein (1/32") (45°)
qtz-ep-bn-chl fr (10°) cut by qtz-ep vein (45°)

24 pale greenish wh 1-2p to 545 then ol. green (2p)
6" slaty-looking shear @ 552 (50°) - contains cpy-bn-qtz-MoS_2
qtz-cpy bn w qtz-ser-pyrite loc. at edges

26 Ol. green to 526 then wh (1-2p) w. loc. pink + green (2)

1M-572-3322

HIGHLAND VALLEY DRILL LOG SHEET

Hole 70-233 Date Aug 4 / 73

Quite cool now

Property HIGHMONT

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27 596-619	lg-	5 thin	✓	✓	ol grn 2-3 l	lt grn 2 l	wh 1-2 p	–	fr chl ser	1	20	✓	5	
29 649-672	lg	7	✓ one blob	≃	2-3 to 655	grn 2 to 672	pink yell 3 l	–	"	1	–	✓	5	
31 695-718	vlg	–	✓	✓	–	ol grn 2-3 l	wh-lt grn 1-2 p	–	"	1	20	✓ sever	5	
33 740-765	vlg	–	–	✓?	pink 2-3 l	yell grn 2-3 l	grn wh 1-2 l	–	"	1	–	–	5	

27 MoS_2 fr 40° qtz - cpy - MoS_2 vein (1/32") 45° cpy-chl fr 50°
qtz-chl-cpy-pyrite 45° fr cut by qtz-cp vein (45°)
qtz vein some ach hem at edges 35°

28 Local short gouge sections, green altn (lt to olive (1-2) 2p)

29 cp-ach hem-MoS_2 (20°), cpy along w. qtz (?) fr (35°) (0°) qtz-cpy-bn (50°)
~~qtz~~ chl-bn-cpy fr (0°) cpy-?-1/32" veins-(30° each way) w. pink halo
qtz-cpy-bn-MoS_2 (50°) vein ← 659

30 rubbly 678-690 ol green (2) yell (2-3) lt grn (1-2) all locally

31 Googy 704-710 qtz-ser-cpy fr 50°, 30° (pink halos)
" " " vein 20° pyrite in altn halo
cp-MoS_2 fr. (30°)

32 a bit rubbly near end of hole
mild arg (greenish white) altn generally, local pink (1-2)

33 qtz-cp vein 30°, 35° yell grn altn 758 → Box end
calcite 0 → 20°, white x line cal. 35° (cal in yell. altn zone)
chl-cp-tour fr. (60°) qtz-cpy-bn w qtz-ser stems (35°)
cut by meandering wh calcite vein (avg 45°)
qtz-cp-cpy-chl (30°) chl fr 50°

1M-572-3322

34 yell to 720 then pink and green (2p)

HIGHLAND VALLEY DRILL LOG SHEET

Hole 70-233 Date Aug 4/73

now sprinkling lightly 4:50 PM

Property HIGHMONT

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35 787-811	lg-	–	–	✓	pink + green 2 l		wh-grn 1-2 p	–	chl	2.5	–	✓	5	
37 842-869	lg-	–	–	✓	ser below			–	ser chl	1.5	–	✓	5	I think
39 891-913	lg-	10	–	Bn >	yell (3-2) - green (2-3)		2/3 - 1/3		chl ser	1	20	✓	5	in the green areas I'm fairly sure
41 938-964	vlg	–	–	≈	pink 2-3 p	green 2-3	green 1-2 after	– 960	chl ser	2	–	–	5	recognizable now
42 964-967	vlg											✓	5	

967 EOH

800

35 pink zeolite 25° qtz-cp-cpy fr (05°) qtz-chl fr 45°

chl-cpy-MoS_2 fr (40°) w. pink halo chl-cpy fr (0, 35°)

36 mostly pale green altn (2) loc. pink (2) pyrite

37 green ser. altn (2) to 850 then ; calcite (30° 45°) veins

yell. to yell grn to pinkish altn (3) interspersed with lower grade altn (green) (2-3) to end of box 855 CR

qtz-cpy fr (30°) qtz-ser (not flaky)-cpy fr (0°)

qtz-chl-cpy vein (1/16") (10°) bi (?)-chl-cpy fr (10°)

chl xls speckled w. cpy + cut by ser-bn-cpy fr (35°)

cpy-MoS_2 fr (20°) cp-chl fr (20°) bleach halo

38 yell altn (3) throughout ; mafic → ser - Bleached 5 (?)

39 calcite (10°) cpy-bn-ser fr (15°) 35°

qtz-bn-MoS_2 (at borders) 35° qtz-cpy some bn - ser halos (30°)

Black diffuse altn around fr often w. bn - tour? ser? 907

40 Mostly yell - very clayey - level 3 - Altn eases about 935

41 chl-cpy fr 30° chl-bn fr 40° chl-bn-cpy-qtz fr (45°)

42 The last few feet go back to yell + green altn (3) at 965'

1M-572-3322 Gouge 959