

HIGHLAND VALLEY DRILL LOG SHEET 896513

Hole 572-1

Date Aug 13/72

Property SHEBA

Sunday
Rain overnight, cloudy,
W. J. McMillan sunny

B.C. Dept. of Mines and Petroleum Resources

| Box Footage | Grade | Qtz. Veins | Pyr. | Cpy. V. Bn. | Feldspar Alteration | | Feld. Fresh | mafic | Qtz-Ser. Zones | MoS ₂ | Rock Type | Comments |
|--------------------|-------|----------------------------------|--------|-------------|---------------------|-----------|-------------|----------|----------------|------------------|-----------|-----------------------------------|
| | | | | | grn | pink | | | | | | |
| 159-182 | | | | | 1 | 1 | | chl + ep | | | 4? | but has optitic zones w. gtz eyes |
| 4, 5, 6 229-299 | | some chl. some apple green zones | pretty | | 2p to 290 | 2p to 240 | | | | | 5? | still has gtz eyes |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

o/B 159' Depth 802' Qtz-Eye Bmusk sub-optitic matrix

1. chl - ep veins 20° chl 50° ep 50° w. assoc bleaching
locally I would call it Pom - the quartz eyes however are a problem.

2. ^{20m} gtz vein with cpy pods 40° ck 5 almost 6

3. Local deep pink alter; rust, mal 223 onward ser - cal, chl alter moderate
gtz - ser vein with blobs of Bm + cpy has assoc ^{younger} och hem vein

CR Bm? SK? but has squarish eg (1/4") gtz eyes

4, 5, 6 some ep lots of chl slips locally
slithersides 20° to core axis on fr 10°
" 45° to " " in hem @ 30°
fresh zones + green zones after 290

572-1:171
572-1:204

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| | | | | | | | | | | | | |
| 7, 8, 9 299 - 365 | | | | | general | 2 | | mafic → | | | 5 | |
| 10 - 12 365 - 437 | | | | | almost fresh | | ✓ | sl. chl fresh | | | 5 | |
| 13 - 15 - 505 | | | | | fairly dk green level 2 & 3 after 455 to 528 | | | | | | 5 | |
| 16 - 18 - 572 | | | | | after 528 ref. fresh w/ local pink zones (2) | | | | | | 5 | almost 6 in places |

7, 8, 9 lots of chl slips, ^{exposed} low k to core; ep also @ 40° slickensides. 80° to axis on cal-och. hem @ 70° to core more definitely Skeena now but still get local zones w. square gtz eyes 572-1:315

10, 11, 12 Except for large anh. gtz, much looks like Bom.

Some ep, some chl slips
Calcite veins stuee 20° to exrs on 0° vein
local salmon pink coating on fr. - zeolite?
@ 0° + pink zeol. veins @ 0°

13 - 15 zeolite veins common to 455
Dk green alter zone has numerous chl slips.
0 → 30° stuee 15° to axis
ep veins cut chl are cut by calcite 572-1:493

16 - 18 stuee 90° to axis in MoS₂ on chl slip
572-1:515 bi on slip?
ep veins 0, 30° och hem on slips 0°

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| | | | | | | | | | | | | | | |
| 19-21 572-640 | | | | | rel fresh to 598 then sheared + pink | | | | ↑ magic | | | | 5 | |
| 22-24 - 710 | | | | | | | | | virtually fresh | | | | 5 | |
| 25-29 - 802 | | | | | | | | | local chl ↓ | | | | 5 | |
| (802 EDH) | | | | | | | | | | | | | | |

19-21 sheared 598-601 pink altn level 2
598 to 630 pink + green level 1 to 640 to 655
strike 20° to axis
cal veins 0° ser slips with assoc cal veins @ 10°
qtz + ch veins ; cal
ep veins at 20°, on fi @ 80°
chl slips, 0, 20, 80°

22-24 655-680: dk green altn level 2 → 3
calcite vein at 70° with chl altn halo
" " 0° w. strike 90° to axis
ep. veins (20°) + repl. plag
1" aphte 80° to core at 677' 572-1:707
almost chat.

25-29 reol. veins subpar. to core ~ 720
chl, chl-ep 0°, 30° magic repl by ep ^{near} veins
local pink altn level 2, local dk gm level 2 → 3
seriate slips 30°
calcite @ 90° 572-1:792

HIGHLAND VALLEY DRILL LOG SHEET

Hole S72-2

Date Aug 13/72

~~#~~ 810 (E04)

Property Sheba

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|---------------|-------|------------|------|-------------|---|--|--|-------------|---------------------------------|----------------|------------------|-----------|----------|
| | | | | | | | | | | | | | |
| 1-3 19-88 | | | | | General white level 1 | | | | fresh or chl | | | 5 | |
| 4-6 -160 | | | | | almost fresh v. sh. white | | | | fresh or chl. | | | 5+ D12 | +D7 |
| 7-9 -228 | | | | | 197-220 general pink altn with fresh zones to 238 | | | | then interporal | | | 5 | |
| 10-12 -298 | | | | | local white altn after 238 | | | | magfic u. fresh some epidotized | | | 5 | |
| 12-15 -370 | | | | | | | | | magfic u. fresh some epidotized | | | 5 | |

1-3 common zeal veins 0, 50° - pink Qtz-eye Skeena
 occas. hb humps up to 1" Ø rusty veins w. mal
 0 → 30°

4-6 stuar or cal 30° to axis - vein 10°, rusty throat
 at 70° to core
 (D12) some aplite + a zone n fm 122-130 of bigtz
 eye aplite w. hb. phenos - 47 in N vein + repl. magfics
 at 30°
 one granophytic stunner @ 30° has a pod off (py)
 Bi Qtz + Plag aplite S72-2: 123
 S72-2: 127
 Qtz eye Bon

8-9 mal + rest throughout
 calcite, gtz veins 0° (open space filling)
 zeolite 10° Skeena? S72-2: 161 vein
 gtz-chl-ep stringers 0 → 30° gtz-eye S72-2: 207 pink
 altn

10-12 gtz-ep-och hem 0°, 20° some have
 stuar 0° to axis bleached halos
 calcite veins 30°
 one thin pink D12 zone at 278 with aplitic borders
 gtz - xline cal 20°

279-283 gtz-ep-och hem ^{veined} area with level 2 & 3
 dk green altn
 13-15 { gtz stunner @ 90° aplite
 cpy-coated fr. @ 30° 3" gtz, eye ep @ 90° to core @ 323
 1M-572-3322
 gtz-ep pods + stunners with accom pinkish altn
 30°, 80° In the only dk green altn zone mag → ser

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Hole 572-2

Date Aug 11/72

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| | | | | | | | | | | | | | |
| 16-18 370-441 | | | | | variable | | | | chl or fresh | | | 5 | |
| 19-21 -514 | | | | | | | | | | | | 5 + D7 | |
| 22-24 -585 | | | | | local pink fs altm | | | | | | | 5 | minled D7 530-554 some gts eye |
| | | | | | | | | | | | | | |

16-18 ^{at 80°} shearing with chl on slips + cal veins in fract
accomp by dk green altm to 395 (level 1 → 3 avg 2)
fract at 10-70° to core in this zone carry cpy + MoS₂
gt₃-ep aplite at 409 - 6"
410 onward the rock is almost fresh

19-21 ^{at 400' (70° to core)} biotite aplite with granophyric pods which have
gt₃-ep-pyrite (one spec) blks. cpy dissem. in aplite (sparsely)
2nd bi aplite (70° to core, 491-494) has more granophyric
zones (mottle the rock) with dissem cpy + gt₃-cpy veins
at 10 → 30°.

503 - chl-ep-cpy-pyrite on fr at 0°

502 - cpy-MoS₂-gt₃ at 20°, 0° almost no assoc. altm

a zone of dk green ⁴⁹⁷⁻⁵⁰¹ altm level 1-2 doesn't seem to be
assoc with cu-brg veining (altho one vein occurs in it)

cu-brg veins spor. thru box 21 572-2:505 minlzn
sk?

22-24 gt₂-ep stungers at 130° with bleached or pink halo
cal at 10° 572-2:553 aplite

1M-572-3322

cpy + some py on blks + repl mafus 572-2:568 minlzn
sk?
rock

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| | | | | | | | | | | | | | | |
| 25-27 585-656 | | | | | | | | | | | | | 5 | some qtz eyes w. ap halos |
| 28-30 - 730 | | | | | local dk green level 2-3 otherwise fresh | | | | | | | | 5 | D7 stringers qtz eyes |
| 31-33 - 804 | | | | | | | | | | | | | 5? D7 +6? | |
| 34 - 810 (EDH) | | | | | | | | | | | | | 6? | |

25-27 Very sim. to 22-24 but No D7
to 0° → same stringers

28-30 D7 stringers $\frac{1}{2}$ " @ 45° N - cuts a bleached halo at one point
qtz stringers 40° cut aplite
dk green alt. zone has cpy - qtz veinlets - cut by aplite
epy repl. mafics qtz vein @ 0°
572-2: 712 sk? cut by aplite
at 70°

31-33 like 28-30 to 745 then ~~qtz~~ pink aplite with grano-
phytic zones to 799 - unlike earlier zones
this aplite is barren. - some peg. qtz - kspen pods
- after 799 the rock is alt. dk green (2) + pink (2)
mottled - it has cpy in fr. + epy mafics

34 same rock
continues to end of hole - beautiful fresh bi
prob secondary - rock now Bsd.?
magnetite fairly abundant and almost in the
disseminated category! 572-2: 801 } qtz-eyes
572-2: 810 }

HIGHLAND VALLEY DRILL LOG SHEET

Hole 572-3

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|---------------------|-------|------------|------|--------------|---------------------------------|--|-------------|-------------------------|----------------|------------------|-----------|----------------------------|
| | | | | | | | | | | | | |
| 16-18 373-445 | | | | | almost fresh | | | almost fresh | | | 5 | mafic-rich zone 395-419 |
| 19-21 517 587 | | | | | " " local pink alt. zones | | | " " locally → chl | | | 5 | |
| 22-24 587 660 | | | | | almost fresh | | | almost fresh | | | 5 | mafic-rich 572-585 |
| 25-27 660 737 | | | | | | | | fresh or → ser | | | 5 | locally mafic-rich |
| 28-30 733 799 | | | | | overall fresh | | | almost fresh | | | 5 | |

16-18 folm 35° to core
 aplite 1/2" 65° to core cuts mafic-rich & poor contact
 chl-ep on fract 80°
 some zeolite 10°

22
 19-24 a bit of shattering at 545 (low & to core) + mal.
 567-571 deep red-brown rusty zone then
 mafic-rich zone
 gts-ep @ 20°, 50° / plag → white (3)

25-27 621-667 general dk green alt. (2-3)
 596-599 shatter zone - white to alt. (3)
 587-610 local mafic-rich zones
 calcite - och hem at 30°

28-30 gts-ep at 30°, 50° some with pink alt. holes
 one 6" gts-ep 07 in box 28
 zeolite at 45° (pink)

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|-------------|-------|------------|------|----------|---------------------|--|--|-------------|-----------------|----------------|------------------|-----------|----------|
| | | | | | | | | | | | | | |
| 31-33 | | | | | almost | | | | | | | | |
| 733-799 | | | | | fresh | | | | fresh or chert. | | | | D12 5 |
| 799(EDH) | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

31-37 bn - chl on slip 50°
 chilled zone then bigtz plag ppy (D12)
 735-736, 743-767 572-3: 743
 an odd, mfic-rich zone occurs near 743
 it is pre-dyke - xenolith?
 572-3: 790 Sk

HIGHLAND VALLEY DRILL LOG SHEET

Hole 572-4
-60°E

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|--------------------|-------|------------|------|-------------|---------------------|--|--|-------------|--------------------------------|----------------|------------------|-----------|----------|
| | | | | | | | | | | | | | |
| 1-3 150-221 | | | | | | | | ✓ | gen → chl | | | 4 | |
| 7-9 360 -267 | | | | | local bleaching | | | | local chl | | | 4 | |
| 4-6 see below | | | | | | | | | ?? zeolitic ?? | | | 4 | |
| 10-12 - 430 | | | | | local pink attn | | | | mostly fresh | | | 4 | |
| 13-15 - 499 | | | | | local green attn | | | | fresh local pink (2) → chl. | | | 4 | |

Bm or odd Guichon

1-3 zeolite veining w some mal stain 20°, 50°
calcite " 50°

4-6 some xltine amber calcite 20°
white calcite 35° chl - och hem on fi. 50°
zeolite 0° zeol + cal 50° gtz - ep stringer 0°

7-9 chl on slips 0°
zeolite 0 → 50°

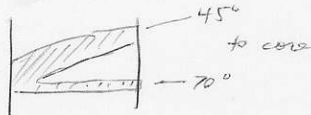
572-4: 270

Gu? Bm?

10-12 chl slips 30°
magfic fresh or st. chl.

13-15 stueal 70° to axis

some to amber xltine calcite
MoS₂ on one slip @ 40° to core
chl. MoS₂ on slips @ 20°



572-4: 423

Gu? Bm?

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| | | | | | | | | | | | | |
| 10-16 499-570 | | | | | almost fresh | | | fresh or → chl | | | 4 | + Kv(?) dyke |
| 19-21 -639 | | | | | local pink (1-2) local green (1-2) overall fresh | | | fresh or → chl | | | 4 | |
| 22-24 -708 | Bn on mafics @ 665' | | | | alt pink + green 1-2 | | | chl | | | D12, 4 | 641 to 685 |
| 25-27 -783 | | | | | local dk green ser. (2) and local fresh | | | ser or fresh | | | 4, D12, 4 | D1 ← 736-760 |
| 28 -801 F0H | some MoS ₂ on | | | | slips in 20° to core | | | chl zone | | | 4 | |

16-18 chl-ser slips @ 35° otherwise like 16-18 up to 560 where there is a dk green dyke to 570. Contact 45°. amyg pyroxene andesite Kamloops?
dyke calcite veined
S72-4: 558 C.R.
S72-4: 562 dyke Kv

19-21 uneven
20-22 cpy + some py on anfract at 0°
cpy in a chl slip at 35°
calcite at 35° chl slip at 50° bn-chl slip @ 45°
flaky ser ady to gty - chl veinlet at 35°

22-24
23-25 637 onward is a green of ser. alt zone - next recognizable rock at 641 is chilled Dyke - then becomes fresh recognizable D12 D1? matrix pinky-green mafics → chl. to 685 then 4 again w. local dk green ser. zones
S72-4: 651 D12?

25-27 chl slips - striae 45° to axis
736-760 chl zone then D12 or is it + D1 - looks like either dip or place you look - gen. has aphanitic matrix - call it D1 S72-4: 752 D1

HIGHLAND VALLEY DRILL LOG SHEET

Hole 572-5

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| | | | | | | | | | | | | | |
| 1-3 35-104 | | | | | white (1) | | | | fresh-st. chl | | | 5 | some gts-eye D7 |
| 4-6 -179 | | | | | white (2) | | | | muddy chl. | | | 5 | |
| 7-9 -247 | | | | | alternating orange pink (2) and fresh | | | | fresh on chl. | | | 5 | gts eye |
| 10-12 -315 | | | | | " | " | " | " | " | | | 5 | gts eyes |
| 13-15 -383 | | | | | nearly fresh | | | | " | | | 5, | 6? gts eyes |

1-3 zeolite (pink) 0°, 30°
pink alter. adj. to veins

4-6 mal stain calcite 50°
sericite slips 35° chl slips @ 40°
rubby at 147' zeolite 0°
white x-line calcite @ 70°

7-9 striae 45° to axis in oth hem @ 0° S
672-5-217
locally dissem ep repl. mafic + plag ± mafic → chl
gts veins 70°
some mal ± at rest on fractures

10-12 Rust + mal in box 12 gts-ep @ 50°
gts stingers @ 70°

13-15 chl slips 10°, 70° cpy repl. mafic
ep vein @ 180° with pink halo
358-365 bi^{gr} plag aplate - after that the
rock begins to look like B5da or
is it gts-eye 5?

HIGHLAND VALLEY DRILL LOG SHEET

Hole 572-5
-650E

Date Aug 13/72

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| | | | | | | | | | | | | | |
| 16-18 383-454 | | | | | nearly | | | | chlorit- itized | | | 5 | gts eyes |
| 19-21 -524 | | | | | " " | | | | fresh or chlorit. | | | 5 | pretty convincing 5 mm |
| 22-24 -597 | | | | | " " | | | | " " | | | 5 | " |
| 25-27 -667 | | | | | " " | | | | " " | | | 5 | local gts eyes |
| 28-30 -738 | | | | | " " | | | | " " | | | 5 | local gts eyes |

16-18 gts-ep @ 20°, 70° gts vein 10° mal on
gts-ser zones 50° to core slip - box 18
Rock very near 5/6 xtn

19-21 Rust on fractures
gts-ep veins 50° pink zoelite 0° to core
struc 90° to axis

22-24 Qtz - kspen veins 50° zoelite veins 0°
gts-ep 0 → 30° seritized zones @ 70°
mal + rust on fract
chl-bn-ep sturgen @ 70°

25-27 Same

28-30 seritized dk green alt zone after
732 cpy in chl slips @ 90°
ep on fract at 50° gts- chl-ep at 70°
686 aplite sturgen 60° to core

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| | | | | | | | | | | | | |
| 31-33 - 790 | | | | | local gm ^(50%) | alt ⁽²⁾ | fresh | | | | 5 | quartz-eyes |
| 790(EOH) | | | | | locally fresh | ser | | | | | | locally looks like <u>6</u> |
| | | | | | local gts-ep zones | | chl. | | | | | |
| | | | | | local chalky alt ⁿ (1-2) | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

calcite veins 80°
pink altⁿ ~~hardly~~ partly on fract^s @ 0°
gts-ep veins 10-20°, 45°
red iron oxide on some fractures
per. slips 30°

HIGHLAND VALLEY DRILL LOG SHEET

Hole 572-6

Date Aug 13/72

-80°E

Property Sheba

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| | | | | | | | | | | | | | |
| ① 10-34 | | | | | neebly fresh | | | | fresh on chl. | | | 5 | |
| ④ 81 85 -105 | | | | | neebly fresh loc ser (1) | | | | " " | | | 5 | |
| ⑦ 151-176 | | | | | fresh to 153 then pink to yellow to green altm 2-3 | | | | " " | | | 5 | |
| ⑪ | | | | | some pink altm (2) some ser. altm (1) | | | | " or sericit. | | | 5 | quartz-eye |

- ① cpy-chl slips 35° ser slips 20°
pink zeolite 0°
- ② similar
- ③ occasional pink aplitic zones @ High 4 to core
qtz-ep stungers @ 10°, 20° plag loc. sericitized
- ④ qtz-ep stungers @ 30°
aplitic stungers @ 40° calcite? zol? @ 30°
- ⑤ almost massive & fresh
- ⑥ same as 5°
- ⑦ Lots of veining in the altered rock
qtz-ep 0° white calcite 0, 30°
chl-qtz-ep 40°, 30°, 0°
- ⑧ altered & sheared to 183 then it is an odd-
looking rock which may be 5 shot through
with apite 572-6: 156
- ⑨ odd rock continues - grad changes to 5 in 572-6: 198
- ⑩ ~~box 10~~
~~couldn't find~~ chalybeite altm on fi. @ 80°
- ⑪ Thin to plag ppy stunger at 264 @ 35° to core
zeolite veins @ 30°

1M-572-3322

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|-------------|-------|------------|------|----------|---------------------|--|--|-------------|--|--|-----------------|------------------|-----------|----------------------|
| | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | D1 751 to 798 (50ft) |
| | | | | | | | | | | | | | | |

21 to 23 } fresh looking qtz eye 5
 24, 25 } ? occasional qtz-ep-cpy veins 35°
 (can't see the core very well) it is under other boxes)

26 some qtz-eye eplite stringers at low to 30°
 general mod-intense dk green ser

27, 28 aplitic ^{alt} stringers 30°, some ser. zones overall

29 fresh generally but local 2' dk green ^{fresh 5}
 ser. zones

30 by-passed

31 D1 stringers
 a few pink zones where ep-veins occur 0-30°

32 @ 751' is a grayish chill zone then green eph matrix qtz-plag ppy (D1) 35° to core (uneven)

HIGHLAND VALLEY DRILL LOG SHEET

Hole 572-6

Date Aug 13/72

Property Sheba

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

| Box Footage | Grade | Qtz. Veins | Pyr. | Cpy. V. Bn. | Feldspar Alteration | | | Feld. Fresh | | | Qtz-Ser. Zones | MoS ₂ | Rock Type | Comments |
|-------------|-------|------------|------|-------------|---------------------|--|--|-------------|--|--|----------------|------------------|-----------|----------|
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33 ppy pink adj to qtz-cp vein - otherwise has green matrix

34 ppy to 798 (E0H)
572-6:793 sample