

896514

see also Book 1972-2

C HATAWAY

CORE

LOGS

July - Aug '72

AND STELLARD LOGS (at end)

CHATAWAY

Drill holes:

B06 Bm (SK overtones)

SS1 Box 2 Chat + fg + then Chat

SS 2 Chat

JS3 Chat (loc intense see altn)

{ 4 Chat

} 5 Chat

CS 3 Chat EOH 995'

72-3 Bm ? D2 ? to 50' (EOH)

72 - 4 Bm - 145; Chat \rightarrow 500 (ETH)

Gu overtones near ETH

✓ plotted

WJM

Chataway Lou Legs

Holes looked at by WJM

- | | | | |
|---------------------|---------------------------|-----------------|------------|
| ✓ WS1 | ✓ 72-2 (part in notebook) | B1 ✓ | } VIMY |
| ✓ WS2 | ✓ 72-1 (notebook) | B2 ✓ | |
| WS3 | ✓ 72-3 (notebook) | B3 ✓ | |
| S1 | ✓ 72-4 | | |
| S2 | ✓ JS1 | C4 ✓ | |
| S-3 | ✓ JS2 | | |
| S-4 | ✓ JS5 | SKY 7-1 ✓ | |
| S-5 | ✓ SS1-SS2 (notebk) | SKY 7-2 ✓ | |
| SS7 | ✓ SS3-1 | SKY 7-3 ✓ | |
| | ✓ SS4 | | |
| W1221-1 | ✓ SS5 | BO-6 (notebook) | |
| W1221-2 | ✓ SS7 | BO-7 ✓ | |
| W1221-3 | ✓ JS3 | | |
| WS1 | ✓ JS4 | notebook | |
| SSX | ✓ JS5 | | |
| ✓ MASS 4 (notebook) | ✓ BUS1 | | |
| | | ✓ CS 4 | } notebook |
| | | ✓ CS 5 | |
| | | ✓ CS 6 | |
| | | ✓ CS 7 | |
| | | ✓ CS 8 | |
| | | ✓ CS 10 | |
| | | ✓ A1 | } Base 14 |
| | | ✓ A2 | |

all plotted

all plotted

HIGHLAND VALLEY DRILL LOG SHEET

Hole B1

Date July 31/72

Property Chataway

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

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. > Bn.	Feldspar Alteration			Feld. Fresh			Qtz.-Ser. Zones	MoS ₂	Rock Type	Comments
1 30-103														
2 -140														
3 -184														
4 206														
<u>end</u>														

1 O/B 30' Box goes to 100' - badly sheared
Rock sericitized, k-feldspathized D2? could
be altered f_g 3

2 even more shattered than box 1 - lots of
bright pink altn

3, 4, also very fragmented

not sure whether rock is altered
favored (f_g 3) or D2 or perhaps even
f_g 2.

The two samples taken may help

HIGHLAND VALLEY DRILL LOG SHEET

(1/2)

Hole B2

Date July 31/72

Property Chataway

W. J. McMillan

B.C. Dept. of Mines and Petroleum Resources

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. Vn.	Feldspar Alteration			Feld. Fresh	Qtz-Ser. Zones	MoS ₂	Rock Type	Comments
① 12-34			6	135	-	164						
② -60			7	-	191							
③ -83												
④ -105												
⑤ -135												

1. Guichon with some Chataway-like segregations & zones
2. Hybrid xenoliths (mafic-rich dk gray to dioritic) Guichon with Chat. overtones
3. Zones would be called Guichon, others Chataway
4. 43 → sheared zones, 30° to core
Chataway with Guichon overtones
5. Pink aplitic 111-13 - has pink alt. zones at both edges
6. Calcite veins 11 to core; rock type for 3 ^{135 onward} after aplitic zone
7. mg Chataway (Guichon overtones) with ^{Hybrid xenos, some zoned veins low} 4 to core
Xenoliths after 183 again
a zone of shearing + seriate alt. ~~the~~ separates
Chat. 1/2 for 3 (?) ^(again) shearing low 4 to core

HIGHLAND VALLEY DRILL LOG SHEET

(2/2)

Hole B-2

Date July 31/72

Property Chataway

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
8 191 - 214												
9 238												
10 262												
11 284												
12 300												

8 Chataway with hybrid Xenos (sample-214)

9 chl. on slips at 30° to core
 Fairly massive rock with zone
 of Chataway & zones of Guichon

10, 11 Rock is mixed Chat/Guichon. The text.
 is blotchy - there are zones of Chat &
 then sort of blobs of Guichon + vice versa

12 sim. to 10, 11 some hybrid Xenos.

HIGHLAND VALLEY DRILL LOG SHEET

Hole B-3

Date July 31/72

Property Chataway

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
1 58-84		6	-	200		(11)	300							
2 - 107		7	-	223										
3 - 131		8	-	246										
4 - 158		9	-	272										
5 - 179		10	-	284										

- ① Guichon with Chataway overtones or vice versa
some gtz - chl veins w pinkish blacked halos
- ② Chat w Guichon areas
reolite sub// to core
- ③ The 3/2 mottled rock continues, some hybrid
xerox
- ④ Some "shattered" zones } mainly poor version of Chat.
- ⑤ " " " }
quite fresh but local chloritic zones
- ⑥ } vert. all gauge argillic? altn in gauge zones
- ⑦ } pretty good chat. now same as 6 shear low & to core?
- ⑧ } " " " Chat - Guich + Guich/Chat m&f
- 9 has shearing (steep low &) mainly Chat, some pink
altn
- 10 50/50 sheared, massive
to core
- 11 slightly sheared, mainly Chat.

HIGHLAND VALLEY DRILL LOG SHEET

Hole B07

Date Aug 1/72

Property Chataway

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
① 14 - 33														
② - 55														
③ - 70.5														

- ① Skeena? Bm?
chlorite on slips
- ② Bethlehem - locally almost Skeena - some quartz-eye oplitic alaskite with peg. zones
- ③ probably should be called SKEENA
gtz is large anhedral but is

not far from being Bethlehem

HIGHLAND VALLEY DRILL LOG SHEET

Hole C 4

Date July 31/72

Property Chataway

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
① 72-105			②	-235										
② 139			⑦	-260										
③ 165			⑧	287										
④ 188			⑨	304										
⑤ 210			⑩	312										

- ① D2 mainly - plagioclase → green altn, sub-ophitic groundmass
some quartz + chat but are exotic I think
- ② after 106 the rock is sheared and altered with the pink altn
- ③ all altered + soft - extensive argillitic altn?
- ④ to 170 then pink altered D2? f93?
- ⑤ D2 - mafic sl. chl otherwise fresh.
- ⑥ The rock now looks like f93.
- ⑦ f93 - a bit of calcite at 30° to core
- ⑧ f93 - quite a bit of pink ^(Kspax) in the matrix
- ⑨ f93 - ~~mod~~ ^{mod} sericitic + hematitic plagioclase altn
- ⑩

HIGHLAND VALLEY DRILL LOG SHEET

Hole C5-3

Date Aug. 28/72

Property Chataway

W. J. McMillan

B.C. Dept. of Mines and Petroleum Resources

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. Vn.	Feldspar Alteration			Feld. Fresh			Qtz-Ser. Zones	MoS ₂	Rock Type	Comments

0-50 - Chataway

56-80 - Chat. m.g. unaltered.
Some sp. veining

80-103½ - med. c.g. Chat.
Chl. on fractures.

103½-125.3 - Chataway
Varies slightly fr. coarse to med. gr.

125.3-153 - Chataway.

153-173 - m.g. Chat. to c.g. Chat.

173-188.2 - m.g. Chat.

188.2-211 - m.g. Chat.
odd. speck of malachite on joint

- 211-232 - m. to c.gr. Chataway
- 232-251 - c. to m.gr. Chataway
- 251-271.6 - c. to m.gr. Chataway.
- 271.6-291.3 - m.gr. Chat.
- mafics slightly ragged
in spots
- 291.3 to 312 - med to c.g. Chat.
- 312-332 - Chataway.
sl. ragged mafics.
- 332-352.9 - m.gr. Chataway
- 352.9-379 - c.g. Chataway.
- 379-400.6 - m.gr. Chataway.
- 400.6-424 - m.gr. Chat.
- veining.
- Ep. alt. along veins.
- Qtz-ep vein material.
- mafics pretty ragged in spots
usually on veins
- chl. alt of $\frac{1}{2}$ along veins
- 424-448 - m.gr. Chat.
- Kspar. alt along veins (veins = Qtz,
ep., Kspar)
- 448-473 - m. to c.gr. Chat.
- 473-494.7 - m. to c.gr. Chat.

HIGHLAND VALLEY DRILL LOG SHEET

Hole CS-4

Date Aug. 28/72

Property Chataway.

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

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. Vn.	Feldspar Alteration			Feld. Fresh			Qtz.-Ser. Zones	MoS ₂	Rock Type	Comments

24-52 - m.gr. Chat

52-71 - m.gr. Chat.

71-90.5 - m.gr. to c.gr chat.

90.5-107' - m.gr. Chat.

END.

HIGHLAND VALLEY DRILL LOG SHEET

1/2

Hole JS1

Date AUG 1 / 73

Property CHATAWAY

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
1 10-34		(6)												
2 -55														
3 -70														
4 -90														
5 -107														

- 1 50/50 mg chat & sericite - quartz altered rock
- 2 sericitized rock, chloritized rock, some recognizable Chataway
- 3 chloritized rock, then rather mafic fq 3 - one sericitized zone (#62 #63)
- 4 at ≈ 83' the rock changes from fq 3 to chat - core too broken up to show much about contact
- 5 The first foot is a sericitized zone (qtz - ksp - sericitized plaq rock) could be an alt. dyke (see sample from 63') then gray fq 3 with chlorite slips @ 30 + 50° to core (has sericitized zones 1/2 - 10" wide at 50° to core)

HIGHLAND VALLEY DRILL LOG SHEET

Hole JS1

Date Aug 1/72

(2/3)

Property CHATAWAY

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
6 97-126			(11)	222										
7 -144														
8 -163														
9 -182														
10 -202														

6 fq 3 with dk green altn zones (mafic → ser in these zones)

7 Generally, altn less intense mud zones at 128-130, 132-133
A few ep coated jnts have pink halos 1/4" wide

8 Several foot-wide ser. zones, some calcite veining at 20 + 50° to core fq 3.

9 First recognizable rock is Chataway - ~~sericite~~ then a cream to tan coloured altn zones (sericite (?) - gts rock) (166-175) then Chat. with local pink altn zones

10 Chataway with thin mg gts-kspars stringers at 30° to core

mafic fresh or → ser or → chl.
" Chat with chlonite & slips + obvious hematite - calcite? veins with sericitized halos 45° to core - also sericitized zones @ high & to core

HIGHLAND VALLEY DRILL LOG SHEET

3/3

Hole JS1

Date Aug 1/72

Property Chataway

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

Box 12 Chataway with Gurchon overtones
Bleached halo 1/4" adv. to thin qtz-ep veins
normal to core

HIGHLAND VALLEY DRILL LOG SHEET

Hole JS2

Date Aug 1/72

Property CHATAWAY

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
① 20-35			⑥	-	133			⑪	-	219				
2 -52			7	-	152			12	237	15				
3 -89			8	-	158			13	250					
4 -107			9	-	178									
5 -114			10	-	200									

① chat with extensive rusty altn +
 ↓ sericitic altn. some chloritization of mafics

②

③ Rel fresh, rel. massive Chataway

④ all core in small pieces - " with
 some chloritic altn of mafics

⑤ Extensive wood- intense dk green sericitic
 altn of chat for first 15' of box

⑥ some chl-ser altn along slips, calcite veins
 Chataway

⑦ core split chl altn of mafics ^{adj. to} chl-ser slips

⑧
 ⑨

10, 11, 12, 13 core split - sheared up rock with intense
 dk green sericitic alteration

Chat to Box 10 - thereafter uncertain

HIGHLAND VALLEY DRILL LOG SHEET

Hole J55

Date AUG 1/72

Property CHATAWAY

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
① 0-41.5														
2 -60														
3 -78														
4 -98														
5 -119														

- 1 Rusty altered rock (due to wtg?) in Box)
2. ^{Intense pervasive} ~~moderate~~ A few sericite? altn has reduced the rock to gty "eyes" in an olive green matrix.
- 3 at 77 the rock is recognizable though altered chataway. Prior to that, I suspect the rock has been altered py dyke of some kind.
- 4 chat to 92 then altn progressively destroys text. until it is unrecognizable by 94
- 5 altered + mixed zones to 118 then fg chataway some calcite veins + a bx zone w. calcite cement

HIGHLAND VALLEY DRILL LOG SHEET

Hole SKY7-1

Date Aug 1/72

Property Chataway

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

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. > Bn.	Feldspar Alteration			Feld. Fresh			Qtz.-Ser. Zones	MoS ₂	Rock Type	Comments
① 30-52														
② 52-83			⑦	206										
3 - 105			8	233										
4 - 127														
5 - 151														
6 - 177														

- ① Chat - almost mud 40 onward, rock remnants chloritized
- 2 lg rock of Chataway interfayered (Guichon?) - lg predominates at front of box all sensitized-chloritized zones @ 450 to core
gts-chl veins at 450 to core have bleached halos
I would swear the dk + leuco zones are merely magmatic segregations
- 3 Chat. w. guichon overtones - local pink altn; local sericite altn; epidote veins pink apatite stringers at 60' - low & to core
- 4 Chat - local finer grained zones
- 5, 6 chat.
- 7 " - chl on slips 11 to core
- 8 pink zeolite @ low & + 30' to core
sericite slips 11 to core

HIGHLAND VALLEY DRILL LOG SHEET

Hole SKY7-1

Date Aug 1/72

Property Chataway

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
9 230-255														
10 - 277														
11 - 307														
12 - 350														

9 Chataway, - some chl - ep on fractures @ 30° to core

10 similar to 9 - some pink altn

11 " " " " " "

12 " " " " " "

10, 11, 12 the rock is closely fractured - more so on 11 + 12.

HIGHLAND VALLEY DRILL LOG SHEET

Hole SKY 7-2

Date Aug 1/72

Property Chataway

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
① 0-39 30-52			⑥	154								
2 -62			⑦	178								
3 -84			8	201								
4 -106												
5 -130												

① ~~40 onward - almost mud - rock frags~~
~~thionitized~~
 massive ~~Chataway~~ Chataway gd

② lg zone 47 to 50 contact 30° to core
 Contact sharp over mm scale but no obvious
 X-creating relationships
 gtz - chl - ep ± ser veins with pink
 alt halos

③ Massive 2

④ " "

⑤ " " to 119 then consid. pink alt
 ser + chl on slips 30, 60° to core
 occasional xenoliths

⑥ Fairly gen. pink alt + chl-ser. alt zones.
 epidote?

⑦ virtually massive Chataway

⑧ Chat to 197 then virtual mud

HIGHLAND VALLEY DRILL LOG SHEET

Hole SK47-2

Date Aug 1/72

Property Chataway

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
201-224				(14)	349									
250				15	364									
277														
297														
324														

- (9) Shattered zone. peters out ~ 210' - stinger of aplite 40° to core at 212 - somewhat scuffy 2
- (10) Generally mildly shattered; mafics → chl. chl-ser zones 1" wide at 60° to core
- (11) sim. but less sheared - mafics fresh away fm chl-coated slips → chl ^{up to} ≈ 1" fm slips
- (12) Rel. massive, rel. fresh Chat - aplite (2") stinger at 290'
- (13) chl on slips, massive 2
- (14) Massive 2 to 344 then gouge some calcite veining (60°) + chl slips (60°) Some pink zeolite 0°, 30° to core
- (15) Shattered $\frac{1}{2}$ massive zones alternate to 364 (EOT)

HIGHLAND VALLEY DRILL LOG SHEET

Hole SKY7-3

Date AUG 1/72

Property CHATAWAY

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
① 0-48			⑥	175		⑪	-	279						
2 -78			7	200		12	-	297						
3 -107			8	223		13	-	320						
4 -129			9	241		14								
5 -152			10	260										

- ① Chataway; mafic fresh or chloritized rubble zones in box 1 due to wtg? chl on slips - pink halo 35° to core
- ② Zeolites 11 to core, some chl altn + pink altn Box 1/3 shattered; Chataway
- ③ about 1/2 shattered, some pink altn, Chataway low to core? calcite veins 11 to core shear or chl on slip @ 45° to core
- ④ somewhat sheared but overall fresh Chataway one aplite steeper w peg zones (leucocratic)
- ⑤ Rel massive 2.
- ⑥ Shattered after ~~154~~¹⁷⁶ - Chataway
- ⑦ Slightly 1 Chataway ⑨
- ⑧ ~~246-252~~ ^{is an area} with bx zones formed by swarms of ser-chl veins 249-251 mud
- ⑪ Massive ② calcite veins 20, 30° to core
- ⑫ ^{qtz}-chl veins 30° to core have pink halos.
- ⑬ qtz-ser zone cut by calcite vein

HIGHLAND VALLEY DRILL LOG SHEET

Hole SKY 7-3

Date Aug 1/72

Property Chataway

W. J. McMillan

B.C. Dept. of Mines and Petroleum Resources

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. > Bn.	Feldspar Alteration			Feld. Fresh			Qtz-Ser. Zones	MoS ₂	Rock Type	Comments
14 320 - 345														
15 -367														
16 -392														
17 -416														
18 -421														

- ⑭ Fairly massive Chataway
- ⑮ " " "
- ⑯ Chat. with chlonte on slips @ 35° to core
stickensides 60° to core axis
chlonte veins throughout 30, 45° to core
aplite stringers - some with gtz eyes
ep-chl on slips in aplite
- ⑰ Similar but gtz-chl-ep vein & NO aplite
- ⑱ to EOH @ 421.

HIGHLAND VALLEY DRILL LOG SHEET

Hole SS3-1

Date Aug 1/72

WS1

Property Chataway

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

SS3-1

Boxes 2, 3, 4, 5, 8

Chataway phase only
rel. massive

WS1: Box 4 chat with f_g 3 "pods"

Box 5 at 110 there is a 2' shattered zone then f_g 4

Box 6 f_g 4

Box 7 ~~shatt~~ generally sheared up ore

Changes back to chat at 150' - contact obscure

HIGHLAND VALLEY DRILL LOG SHEET

Hole 553 - 1

Date July 31/72

Property Chataway

W. J. McMillan

B.C. Dept. of Mines and Petroleum Resources

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. > Bn.	Feldspar Alteration			Feld. Fresh			Qtz.-Ser. Zones	MoS ₂	Rock Type	Comments
① 27-57														
② 139-162														
③ 162-184														
④ 225-245														

① Passes through a gneiss boulder then pebbles into Chataway

⑥ Shearing low \angle to core slickensides 30° to core axis Chataway
Shears have ehl + ^{och.} them. on them

⑦ same as 6 - ⁴⁰~~50~~% sheared

⑨ massive Chataway.

HIGHLAND VALLEY DRILL LOG SHEET

Hole 554

Date Aug 1/72

Property Chataway

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

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. Vn.	Feldspar Alteration			Feld. Fresh			Qtz.-Ser. Zones	MoS ₂	Rock Type	Comments
1 0-56														
2 -84														
3 -121														
4 -158														
5 -201														

- ① Chataway - rubblely
- ② massive Chataway
- ③ fairly " " - some rubblely zones must have hit a shear - box covers 37'
- ④ Chl on slips 35° to core rubblely first 5' in box then fairly massive
- ⑤ Rock changes to fq 4 (?) at 195' - chat. ahead of it is rubblely.

HIGHLAND VALLEY DRILL LOG SHEET

Hole 555

Date Aug 1/72

Property Chataway

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

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. > Bn.	Feldspar Alteration			Feld. Fresh	Qtz.-Ser. Zones	MoS ₂	Rock Type	Comments
1 0-52		1/3		34' 47'								
2 -89												
3 -113												
4 113-171												
5 171-206												spilled - remnants Chataway
6 -250'												

1 Chataway but mafics a little ragged
mafic slightly chloritized

2 } a bit rubble but fresh m→cg Chataway
3 }
4 } slight pink alt. locally

6 chlorite on shps, one zoelite vein
slichensides 70° to core axis
m→cg fresh Chataway

HIGHLAND VALLEY DRILL LOG SHEET

Hole W1221-1

Date Aug 1/72

Sunny, Cumulus Clouds

Property CHATAWAY

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
1 0-29														
2 -42														
3 -64														
4 -88														
5 -100														

1. Sq 3 with pink altn + sericite zones at 60° to core
2. Name
3. more pink altn, short gouge sections, calate (open space filling) - sericite veins
4. Mud 64-68
sericitized sections 60° to core up to 1' wide
- chl + flaky ser + hematite
5. altn has diminished - still Sq 3

HIGHLAND VALLEY DRILL LOG SHEET

Hole W1221-2

Date Aug 1/72

Property Chataway

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
1 0-29														
2 -59														
3 -82														
4 -92														

1 pink altn & sericitic altn
some looks like fg 3, some like D2.

2 ^{pink} zeolite veins 30° to core
sericitic altn zone @ high & to core
fg 3

3 mud 59-61

Foot-ward sericitized zones to 77
60° to core

4 Rel. massive, fresh fg 3.

HIGHLAND VALLEY DRILL LOG SHEET

Hole W12 21-3

Date Aug 1/72

Property Chataway

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

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. > Bn.	Feldspar Alteration			Feld. Fresh	Qtz-Ser. Zones	MoS ₂	Rock Type	Comments
① 0-42				⑥								
2 - 66				⑦								
3 - 91												
4 - 113												
5 - 141												

- ① fq 3 - lots of pink zeolite veins @ 0 + 45° to core
- ② zeol. veins every couple of inches + entire rock ^{altered} somewhat pinkish. fq 3 - a few mafic clots with reaction veins. Clots up to 3/8" across - continues to 90' then rock is fresh fq 3 (with fq 2 overtones)
- ③ local zones of zeolite veining and one small percolitized zone (70° to core) (30° to core)
- ④ fq 3 with 5 percolitized zones 1 → 8" wide
- ⑤ fq 3 with 2 thin percolitized zones @ high & to core
- ⑥ massive fq 3.

HIGHLAND VALLEY DRILL LOG SHEET

Hole WS1

Date July 31/72

Property Chataway

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
① 28-48														
② 69														
③ - 87														
④ ≈ 76 to ≈ 180														
⑤ - 200														

- ① Fairly massive Chataway
- ② " " Chat with Guichon overtones
- ③ Chat. with local fg zones, loc. mafic clots
- ④ Good, massive, fresh Chataway local partly resorbed ~~mafic~~ ^{Hybrid} lenses.
- ⑤ Good chat to 180, then it has fg hb needles in the matrix to 200 (EoH)

Box 4, 5, 6, 7 described on
Aug 1/72; 553-1 card

HIGHLAND VALLEY DRILL LOG SHEET

Hole WS 2

Date July 31/72

Property Chataway

W. J. McMillan

B.C. Dept. of Mines and Petroleum Resources

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. > Bn.	Feldspar Alteration			Feld. Fresh			Qtz-Ser. Zones	MoS ₂	Rock Type	Comments
0-65 ①				⑥	140-157									
-78 ②				⑦	-186									
-97 ③														
-119 ④														
-140 ⑤														

- ① $A_9 3 ?$ A₉ 4 ? favored
- ② " " " " some gassy zones
- ③ " " " " v. sl. chl altn only.
- ④ Calcite veins 30 + 50° to core same rock.
- ⑤ Pink zoelite 30, 50° to core
bleaching along cracks 60° to core same rock
- ⑥ Contact with Chat. at 145' - no discernible change in either at contact (35° to core) - contact gradual over a few mm's.
- ⑦ Chataway 184-185 Hybrid xeno - digested zone at border 1/8" wide

HIGHLAND VALLEY DRILL LOG SHEET

Hole WS2

Date July 31/72

Property Chataway

W. J. McMillan

B.C. Dept. of Mines and Petroleum Resources

Box Footage	Grade	Qz. Veins	Pyr.	Cpy. V. Bn.	Feldspar Alteration			Feld. Fresh			Qz.-Ser. Zones	MoS ₂	Rock Type	Comments
⑧ 184 - 205			13	- 297										
9 - 221			14	- 314										
10 - 237			15	- 332										
11 - 260														
12 - 280														

- 8 Chataway, about half is sheared (gravel-sized ^{frag} ~~frag~~)
- 9 at 207 chat. is intruded by gts plog crowded ppq (gray green aph. matrix in contact)
- 10 gradually the porphyry changes from D1 to D12 as one gets away from the contact (D12 by 224)
- 11 } D12 mafic → chlonite
- 12 }
- 13 }
- 14 at 299 D12 → chat 1 with very little chel zone. chat. broken up so exact contact not seen.
- 15 Chat. 337 Gypsum? calate? vein 30° to core

HIGHLAND VALLEY DRILL LOG SHEET

Hole 72-2

Date July 31/72

Property Chataway
(Adm sup drilling)

W. J. McMillan

B.C. Dept. of Mines and Petroleum Resources

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. > Bn.	Feldspar Alteration			Feld. Fresh			Qtz.-Ser. Zones	MoS ₂	Rock Type	Comments

- 10 Shearing at 70° to core, horn slickensides
shears chloritized
some zoelite veining 40° to core
- 11,12 Rubbly, pink altn, chl on slips
o 40° to core
- 13 Rubbly
- 14 Rubbly zone ends ≈ 330', still Chataway.
- 15 Fairly massive zool veined chat, slips
(40° to core)
have slickensides dip plunging ≈ 15°
- 16, 17, 18, 19 Rel massive Chat.
- 20 A bit rubbly 460-480
chat with chloritized slips & zoelite
veins 0 → 40° to core
strel 30° to core axis on zoelite
- 21 some sheared zones - chloritized
low 4° to core?

HIGHLAND VALLEY DRILL LOG SHEET

Hole 72-4

Date Aug 28/72

Property CHATAWAY

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

0-35 - 13'-17' - m.g. → c.g. Chataway.
 17-35 - Bethlehem

35-58½ - Bethlehem

58½-79 - Bethlehem.

79½-103 - Bethlehem.

103-127 - Bethlehem.

127-148 - Bethlehem.
 145' → 148' - Bethlehem/Chat

148-169 - lg Chataway → m.g.

169-190 - lg - mg Chataway.

190-213 - mg Chataway.

213-236 - mg. Chataway.

236-258½ - m.g. Chataway.

258 $\frac{1}{2}$ -281 - Ep & chl altered m.g. Chataway
- heavy alteration at 261'
- sec. alteration

281'-304' - Ep & chl. altered m.g. 2.
- sec.

304-323 - m.g. 2

323-346 - c.g. \rightarrow m.g. 2.
- slight 4 overtone around
323'

346'-368' - m.g. 2.
- chl & Ep. alteration
- chl. & Ep. veins.

368'-391' - f.g. \rightarrow m.g. Chataway.

391'-414' - m.g. 2
@ 391' - Hybrid xenolith.

414'-432' - m.g. 2
- sec, chl & slight K-spat altered.

432'-449' - m.g. 2 w/ overtones of 3
- chl. & ep. alteration

449'-467' - Chataway w/ overtones of 3.
- mod. - intense chl & Ep alt.

467-490 $\frac{1}{2}$ - Chataway w/ Guichen overtones.
- mod. chl & Ep.

490 $\frac{1}{2}$ -496' - Chataway/Guichen.
- mod. \rightarrow intense chl & Ep altered^m.

End.