LORNEX "71"

DRILL CORE LOGS

"Instruction sheet on top"

Moses Olade, UBC

INSTRUCTIONS

LORNEX CORE, JA Core

	<.1	.1 to .2	.2-.5	>.5	>1%
Grade	vlg	lg-	lg	lg+	Hg

Qtz veins - give the # of ft betwn veins

Pyrite √(r) present (but rare) √√ abundant blank absent

Cpy > Bn √ yes; √√ cpy>>Bn; x No; xx Bn>>cpy; ? NOT SURE; = Equals

Fs altn
Tan:- argillic
Green:- sericite
dk green:- ser+chlorite

1 Low
2 Moderate
3 Intense

p pervasive
l local

Sericite fractures { - abundant -- a; - common -- c; - uncommon -- u } Hairline cracks are char. by their coatings of sulph & u. chlorite - may have altn outwards to produce modes. ie

Qtz-ser veins - # of ft betwn veins
uncommon -- x

MoS_2 - present in mod. amt --- √
abundant --- √√
absent --- blank

Also Comment on: unusual minerals ie gypsum

: Vein types and age relations

: Faults

: Mafic altn.
s.c. sericite - carbonate
chl chlorite

: Rock Type
4 Bethlehem
5 Skeena
6 Bethsaida

Lornex + JA Idea look at every hole at one level to outline altn patterns

11N
~~X X X X~~ (24)
~~12~~ ~~(36)~~
~~X~~ (36) ~~X~~

Hole 31 1150 Gypsum

(540)
330 → 870 (12:10 PM)
→ 1395 → 114 of 27
21/7/71 114-374 by 10:20 (260) 550/3hrs 670 Noon

525 →
√ Pay rent $55.00
and Sopsy $20.00 cheque

L39
qtz py →
Bsda py

Lornex
Line 3N ~~41~~, 84
Line 11N

HIGHLAND VALLEY DRILL LOG SHEET

Hole L68 Date Aug 25/72

checking Rock Types

Property Harnex

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

L68 9/8 93 EOH 913'

qtz bn veins mod arg altn shearing

sk ? to 195 then qtz ppy

much silicification (qtz veins, bleaching)

Bleached sk? 204-222 Qtz ppy + Bsda (?) ppy

locally sk ppy, overall not sure sk??

very rubbly core

308 back to sk? maybe not next box has ser. qtz ppy

340 sk?

Samples: L68: 205 450 710 819 pyrite

~450' altn fades off

sk & qtz eyes mafic → chl

loads of mod-int. ser altn + qtz veins

750 Pink altn +green altn qtz-ser-cpy veins

altered strongly throughout the hole.

1M-572-3322

HIGHLAND VALLEY DRILL LOG SHEET

Hole L-66 Date Aug 25/72

Property Lornex

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

78 78 EOH 813'

90 Qtz ppy

(118) Bsda ppy (130) Qtz Ppy (165)

Qtz ppy + bsda ppy (same as Qtz ppy but with plag + mafic phenos)

mod arg altn throughout

samples (500, 780)

ppy to EOH

HIGHLAND VALLEY DRILL LOG SHEET

Hole L-64 Date Aug. 25/72

Property Lornex

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/B 213 EOH 899

grungy to 300 (pyrite)

Then quartz eye ppy

Bsda ppy ? (315)

grungy zones cont. but OR Bsda ppy

Bag qtz eyes small bi x/s.

qtz - pyrite veins

sericite alt'n (2) prevalent

795 Tour rosettes on a fracture more @889 (?)

ppy to EOH

315
402
585
635
895

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HIGHLAND VALLEY DRILL LOG SHEET

Hole L-62 Date Aug 25/72

Property Lornex

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

OB 145 EOH 897

ser altn (2-3) pyrite

altn obscures texture 145 - 200 400 -

after ≃ 760 ppy? Bsda ppy?

860 quartz ppy (pyrite)

The two ppy's grade into one another imperceptably

Samples 271 811 834

400 458 726 760 863

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HIGHLAND VALLEY DRILL LOG SHEET

Hole L61 Date Aug 25/72

Property Lornex

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/B 54 EOH 961

core not split to Bsda

grad. from fresh to ser then (over ± 150')

bx then grunge 358 →

(354)

@ 379 the rock is pale quartz ppy

By 445 it is bken up Bsda ppy

700 qtz - ser - cpy - pyrite veins

+ qtz - cpy - MoS_2

Bsda ppy to EOH

Samples 65, 197, 369, 445

500, 600, 810, 900, 950

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HIGHLAND VALLEY DRILL LOG SHEET

Hole L60 Date Aug 25/72

Property Lornex

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

9B 196 EOH 622
grunge to 450
qtz ppy?
after 450 or so Mafic increases & the rock is Bsda ppy
550 more Lenco again
at the end of the hole is bleached rock (ppy?)

Samples 272, 344 (four?), 366, 510, 545, 604

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HIGHLAND VALLEY DRILL LOG SHEET

Hole L57 Date Aug 25/72

Property Lornex

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

O/B 138 EOH 921

White - qtz ppy or bleached rock?
grungy at first as usual to 250'
then altered rock

300 skeena ? to 350

chl., pyrite
Betwn 350 & 400 altn obscures text again
then Bsda ppy? 480 alt. sk.??
530 sk? 600 onward Bsda ppy? → EOH

Samples 265, 315, 431, 480, 530, 605, 760
854, 886

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HIGHLAND VALLEY DRILL LOG SHEET

Hole L54 Date Aug 25/72

Property Lornex

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

OB 73
EOH 1051

qtz ppy 73 - 250
after 250 eltn is intense to 330

then ppy
beautiful qtz ppy @ 365 plag phenos locally

leucocratic qtz ± plag ppy to EOH

samples 80, 150, 330, 365, 595, 914, 1044

1M-572-3322

HIGHLAND VALLEY DRILL LOG SHEET

Hole_____ Date Aug 25/72

Property Lornex

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

L1 0/B 33 EOH 743

(338) qtz ppy, 420, 470 → 598

pl. mon mafic after 600 @ (705)

(730) Bsda ppy

L2 0/B 9 EOH 360

qtz ppy 15, (106) Skeena? 150, (158)

(260) → EOH

L3 0/B 62 EOH 793

Rusty to 130 alt sk?

(240) qtz ppy? 370, 440, 475 sk

qtz-eyesk? sk?

(579) (660) ≐ 695 changes to quartz eye

alt sk? ppy or Bsda ppy

"Bsda ppy" near contact (717) (706)

(788)

then leucocratic to EOH

1M-572-3322

HIGHLAND VALLEY DRILL LOG SHEET

Hole_____ Date Aug 25/72

Property Lornex

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

L4 0 18 29 EOH 485

alt — (69) sk — alt — 100 — sk — 225 then

alt — (341) ppy? — alt sk?? ppy?? → EOH

(415 sample)

L5 0 16 21 EOH 145

altered — 120 — alt sk → 145

sk?

L6 0 18 59 EOH 473

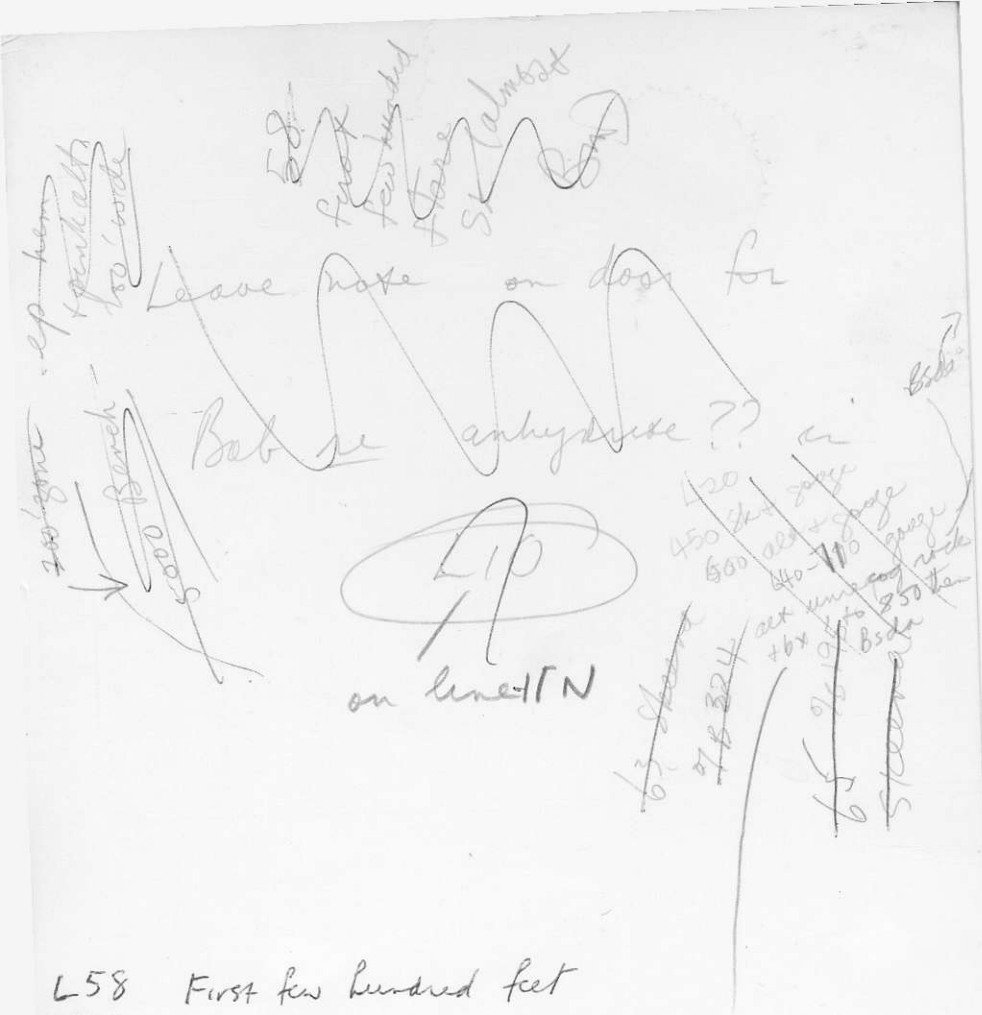
Bsda ppy immed. (72) (104) (210) (310)

(400) (467)

L7 0 18 10 sk 10 → 60 then not sure (

EOH 150

1M-572-3322



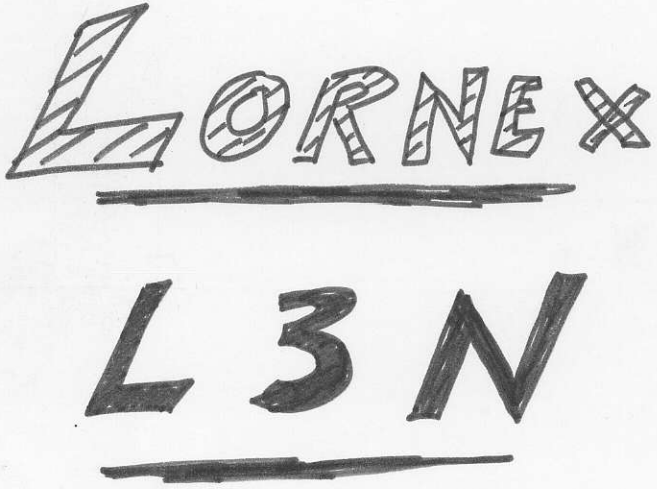
L58 First few hundred feet are Skeena (almost Bm)

L20 450 Skeena + gouge
600 altn + gouge
640 - 710 Gouge
? → 850 then Bethsaeda

L63 Skeena o/B 324

L65 o/B 195 Skeena

5000 Bench - there is a 200' zone of ep + hem + pink altn


LORNEX
L3N

HIGHLAND VALLEY DRILL LOG SHEET

Hole L 50 Date Aug 11/72

Property Lornex

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

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. ∨ Bn.	Feldspar Alteration wh	grn	pnk	Feld. Fresh	Mem fr	mafic	Qtz.-Ser. Zones	MoS_2	Rock Type	Comments
1 284 – 300 ~~259 – 284~~	v lg	4	—	x ?	—	1 p	—	—	? 5	chl	—	—	5	Too rubbly to be reliable
4 318 – 336	v lg	5		x ?	—	1 p	2 ℓ	—	? 5	chl	—	~~✓~~	5+ D1	D1 at 333' for 6"
6 353 – 370	v lg	5→ .2	—	=m x ?	3 ~~β~~	1 ℓ	—	—	?	ser + chl	?	✓	5	
8 390 – 407	~~lg~~	0.5	—	o √	—	—	2 p	—	1	ser + chl	—	—	5 D1	

1 Rusty gravelly rubble with a few massive zones ~~zones~~ (259 – 284) oxide zone \ Bsda boulders?

2 Less rusty after 291'
Still rubbly to end of ~~box~~ ; bn – chl blebs on fracts
chl coated fractures – low ✗ ; qtz – cpy – bn veins

3 Skeena: mafic → chl, has large bi books
& core in box zone ; rest rubbly

4 chl – bn cpy on fractures 10°
generally rubbly throughout the box

bi – qtz – plag ppy at 333'

5 still rubbly but improving – some epidote ?
secondary bi, chl on fractures – low ✗

6 like 5 & 35 7, then a rusty zone to 364 then gray – white zone to 371
qtz veins 20°, 0°
White zone – qtz veins with intense arg. altn between ser
one spec had bxtd qtz cemented by cpy – bn qtz
some MoS_2 in ptns ⊥ to core axis

7 shear zone stops at 371' then qtz veins a few inches apart w. pink altn between to end of box
some shear zones L 50: 384 Kspar ?

8 Local qtz – eye aplite qtz stringers 30°, 50° qtz – cpy – bn veins low ✗ qtz – ser – cpy ✗

HIGHLAND VALLEY DRILL LOG SHEET

Hole L50 Date Aug 11/72

Property Lornex

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

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. > Bn.	Feldspar Alteration wh	grn	p.	Feld. Fresh	M. fr.	Mafics	Qtz.-Ser. Zones	MoS_2	Rock Type	Comments
10 423 - 439	lg-	1.2	–	✓	green + pink	2p		–	5	ser	10	–	5 D7	
12 457 - 470	lg-	1.2	–	✓	–	2l	2l	–	5	ser + chl	10	–	5	
14 487 - 506	lg-	1.2	–	✓	–	2l	2l	–	5	chl or ser	10	–	5	pink alt. + chl. 50/50
16 523 - 543	lg-	2	–	x ?	–	chl? 2p	–	–	3	chl	NIL	–	D7 5?	[illegible]
18														

9 sim. to 8 but fewer qtz veins (1.5' apart) also pink altn + aplitic stringers

10 Lots of qtz-eye aplite - low ∠ to core
qtz veined
qtz - ser - cpy adj to qtz veins

11 Pink zone ~~(down 455')~~ diminishes in centre of box then picks up again

12 Milky qtz, some ser. pods (with och. hem) some cpy (locally, bonanza cpy pods)
ser. - cpy fr. 0° qtz veins 35°

13 Pink zone peters out ~ 470', thereafter is chloritized Skeena

14 Qtz veins 0°, 20°, 30° local pink altn halos
chl fr. 70°, 10° local cpy pods

15 D7 + altered 5 (?)) rather broken up
qtz + ser blebs

16 striae // core axis fairly wide zones of qtz vein but orientn of vein unknown
bn - cpy in zone adj to qtz vein L50 : 537

1M-572-3322

HIGHLAND VALLEY DRILL LOG SHEET

Hole L50 Date Aug 11/72

Property Lornex

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

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. > Bn.	Feldspar Alteration wh	Feldspar Alteration grn	Feldspar Alteration pink	Feld. Fresh	min fr.	maf.	Qtz.-Ser. Zones	MoS_2	Rock Type	Comments
18 559 ~~543~~ -577 ~~559~~	v/g	2	—	?	—	ser 3 p (away fm D7)			?	ser	?	√√	D7 + ?	D7 to 571
20 595 - 612	v/g	2	—	?	-	ser P 1-2	—	-	1.5	ser	20	√	6? or D12?	square qtz-eye rock
22 630 - 647	v/g	4	-	?	-	2l	2p to 635	p after 635	?	ser then chl	—	—	6? or	D12?
23 647 - 663	v/g	1.5	—	√	-	1 vl	2 p	—	?	ser	—	-	6? or	D12 ?
24 663 - 668 (EOH)	shattered pink qtz-eye rock													6? D12?

17 5(?) + D7 — fm 555 onward is D7 with large square quartz eyes — some MoS_2

19 ground up & ser. to 590 then rock with low mafics + square qtz eyes L50 : 596

20 ser - MoS_2 on slips - striae 70° to axis

21 square qtz - eye rock throughout — fairly massive

22 Rock loses pink caste by 635' & is speckled with biotite thereafter - striking qtz eyes & occasional large complexly zoned plag phenos L50 : 644

23 qtz veins with ser - cpy halos

LORNEX

Hole 28 LORNEX

July 13/71
Sunny

O/B 215'

oxidized 215 → 235

221

Fs in the
The rock is altered to a tan color - gouges with the knife [argillic altn?]

Mcas completely altered to ser. + carbonate

Quartz veins several directions, thin,
at least two generations
to barren
poorly mineralized + no sericite

Sulphides present but coated with Fe oxides + Cu carbonate

~3 sericite-qtz zones occur + roughly 1 qtz vein every 2 feet.

Cpy > Bn (no bn recognized)

Rock Type - large anhedral qtz but mafic texture not certain ∴ rock type uncertain

Grade v/g

Box 2 v/g sim to 1 rubbly, pebbly zones 240-250 low ∠ to core?
-254

Hole 28 Lornex

Box 3 Oxide v lg
-273

fs altn locally pale yellow rather than tan now

Muddy gouge 260-261

local qtz-ser. zones - roughly 3

Fs altn apparently less intense in this box (not gougable)

Mnlgn too scarce for cpy/bn estimate

Box 4 Oxidn much reduced below 280'
-292 very low grade
Fs Leu green altn - intense, locally emerald green

Qtz-ser zones have cpy between mica flakes

Pyrite ~~grains~~ crystals + small clusters of xls in the zone with green altered fs

qtz veins 60° either way, 45° + 90° to core

Green altn starts at 280 / ends at 290

cpy >> bn

Gouge zones locally

Box 5 Fs - tan altn mod. to intense 300
-310 Cpy > Bn as clots in the rock replacing mafics

Lg → v lg

cpy > bn

qtz - ser. - one zone
qtz veins 1 every 10'

CR seems to be Skeena

** Barren qtz vein with qtz - green fs altn (sericite) - cpy vein

Lornex Hole 28

Box 6

-329 1/3 gouge matl with apparently a low ∠ to the core

There are still oxide coats on the sulphides

Fs tan altn mod → intense

Mafics → ser.

- Cpy as clots in qtz veins
- as coats on joint faces
- as veins with qtz + sericite (best grade by far)
  cpy >> bn

- qtz veins 2' apart

Box 7

-349 Pyrite 344 - End of Box in zones with sericitic altn
has local emerald green zones + assoc vuggy qtz - cpy - pyrite veins

344
pale grn altn vuggy, pyrit. iferous

Qtz - MoS_2 veins - often sheared

Qtz - Cpy " with sericite selvedges

Qtz vein every foot barren or with cpy pods

Mixed green + tan altn - fairly intense to 344 then intense green to end of box

The best looking qtz - cpy vein has a sericite envelope

Lg

qtz - sericite zones uncommon

Box 8
-368

Lornex Hole 28

350

tan
~~yell~~. altn mafic > ser

— a qtz vein w. assoc cream-colored fs altn has clots + pods of bornite — a meandering qtz-ser. vein crosses the mnlzd vein

— green fs altn less intense but persists to 360'

- a large amt of qtz has been introduced but few qtz veins occur (1 in 10')
- No qtz-ser veins
- some mnlzn seems to form unevenly distributed ∧ dissemenations around fractures ie not true veins but obviously the fracture acted as a conduit

NO MoS_2 cpy ≈ Bn

Lg -

Box 9
387

One qtz vein has MoS_2-bn selvedges

" " " with serrate halos has cpy clots

lg (—)

altn mod. green or tan

qtz veins every 2'

qtz-sericite veins uncommon (10'?)

Possibly Bn > Cpy possible Bn = Cpy

C.R. remains uncertain

July 14/71
Sunny, warm
lovely!

Box 8
368

Lornex Hole 28

Fs local emerald green ser. altn, mainly tan altn of low → mod. intensity

cpy × bn occur with and disseminated away from veins

cpy ≃ bn - not certain

qtz veins 1 in 5'

qtz - ser. zones uncommon but ~~mostly~~ closto of Cu sulphide sometimes have sericite envelopes

---

Box 9
387 - qtz veins 3' apart

- vlg
- Fs altn low to moderate tan local mod. green
- cpy in qtz veins, lesser cpy + bn in qtz veins - qtz veins may be barren
- cpy > bn

No qtz - dkr. worth noting

402 greenish tan altn

410 pink + ser altn — kspar?

Box 10
406

Lornex: Hole 28

V/g
qtz veins every 2'

altn brown mod. to cal green

A few barren qtz-kspar veins moderate accured.

meandering fractures have sericite envelopes + pockets of cpy-ser mineln

Mafic → ser. + carbonate

398-400 Gouge zone w. intensed pale green altn

Locally, the green altn has some assoc kspar altn

Box 11
421

V/g

Qtz veins 1 every 3'

Mod → intense tan altn to 410 then fairly pervasive kspar altn

cpy > bn

Qtz-ser-cpy veins occur but are uncommon (these may be related to K altn)

Box 12

V/g

Qtz veins every 3'

cpy > bn

cpy in qtz-kspar veins with sericite

qtz-cpy-MoS2 veins occur

sericite fracture present, not abundant

apparently 2 generations of mineln qtz veins cpy-MoS2 cuts cpy-bn bits sericite-cpy-bn cuts cpy-bn-qtz

L 28

Box 13 grade 1g+
-455- qtz veins every 1 foot
±pyrite
qtz-cpy; barren qtz; qtz-bn

Pyrite occurs in one green altn zone

qtz cpy veins can be quite rich

~~Cpy~~ cpy-bn-MoS_2(?) occur as patchy altn zones working outward from fractures which make up at least 3 sets - they have pink altn rims (Kspar?)

MoS_2 smeared out along thin gouge zone at 438

Box 14 Qtz veins every foot
-472

Barren qtz cuts qtz-cpy

qtz-sericite also seems to cut off qtz-cpy

Some barren qtz - white sericite veins
" " ∧ qtz veins and mixed have pink halos

Some of the mafic has → sericite but most is chloritized

Pyrite occurs in one sheared qtz-MoS_2 vein

Some qtz-cpy-bn veins have no altn halo

Skeena gd-

L 28

Box Ftge	Grade	qtz veins	Pyrite	cpy > Bn	Fs altn green	Fs altn tan	Sericite Fractures	Hairline Mineld cracks	MoS2	Rock Type
472 15 489	lg	1.0	–	√√	ℓ 2	p 2	r	u	X	?
16 506	lg	1.5	–	√	ℓ 3	p 2-3	r	c	X	?
17 526	lg+	0.8	–	√√	ℓ 3	p 2-3	u	u	√√	?
18 542	lg	0.8	√	√	535-542 (3)	526-542 (2)	c	u→c	–	?
560 19	vlgm	0.8	–	√	ℓ 3	p 2	u	u	X	?5.?
576 20	lg-	3	–	√	–	3	c	u	–	?

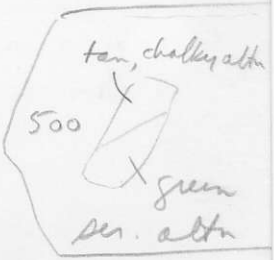
Box 15

Much of the mnlzn is cpy with sericite – locally one can see vugs

Slight Kspar introduction assoc w veining

Hairline fracture mnlzn occurs

Mafic → S.C.



Box 16 qtz-cpy cuts qtz-ser. vein

Qtz-ser cpy veins - 3

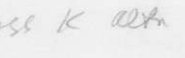
Qtz w. bn pods - no altn halo

Local K altn around poorly defined veins

Mineld hairline cracks cut by mnl. barren qtz veins

Mnlzd hairline zones cuss K altn patches

The mnlzd hairline cracks characteristically have mnlzd clots of qtz-cpy + a greasy greenish mineral (sericite?) replacing C/R outward from the cracks.



(17) Qtz-ser vein & mnlzd crack cut by barren qtz veins

Qtz veins outline rhombs of C.R.

Qtz-ser. veins fairly common

sample 514
vuggy qtz-cpy
MoS2 in Ser altn zone cut by barren qtz

579
dk green altn

17 L28

Qtz vein at low ∠ to core has stringers of cpy + stringers of MoS2

Has an envelope of sericite altn

Vein is ½" wide and very rich

Menlyn tends to be toward the edges of the vein

There is also a zone of ser (green) prog altn outside the sericite envelope

A barren qtz vein cuts the ser. envelope + perhaps the menlyd vein.

The vein is vuggy

18 Pyrite in one 6" green altn zone

sericite fractures grade into qtz-ser. zones

- some at a low ∠ and 40° to core are well menlyd by stringers + cpy with bn envelopes

18-19 535 → end of box gouge with green altn (intense)

→ 542½

19 Two other 1 foot-wide shears @ low ∠ to core

Shear @ low ∠ to core has bn + MoS2 smeared out in it

≙ POST-ORE

Slickensides @ high ∠ to core axis

barren qtz veins cut barren qtz veins

20 All of a sudden the core looks chloritized - permeated w. chl. + sericite - to 564'

cpy - MoS2 - qtz + qtz-cpy-bn veins

Some hematite occurs in the rock disseminated on fractures in assoc. with hairline cracks

L 28

FTGE	GRADE	QTZ VEINS	PYRITE	CPY > BN	Fs ALTN Tan	Green	Dark Green	SERICITE FRACTS	QTZ-SER VEINS	HAIRLINE MINLZD CRACKS	MoS_2	ROCK TYPE	VEIN TYPES + RELNSHIPS
21 576-592	lg	0.5	—	≠	—	—	3	c?	[illegible]	u	—	?	qtz-cpy-bn; calcite-"-"- cut altered zone; cpy + bn dissem. in altered zone
23 610-627	lg	3	-	√	P 2	—	—	u	10	u	√ in gouge zones	5?	qtz-sericite-cpy
25 645-664	lg+	1.5	—	√	l 233	—	l 3	c?	pervasive locally	u	√	5	qtz-cpy; qtz-bn w. Kspar halos; qtz-cpy-MoS_2
27 684-702-	?	common ?	√(n) ?	=?	?	l 3	l 3?	?	?	?	√	?	(cuts ser. altn) POST-MIN. FAULT
29 720-739	?	common ?	?	√?	—	—	—	?	?	?	√	?	Qtz-MoS_2-cpy vein; Kspar-ser envelopes on some qtz veins

21 Qtz veins are thin <1/8" + very common in the pervasively altered dkgreen (ser+chl?) continues to 608

23 Some chloritized mafic

24 Pink calcite veins with envelopes of sericite and xls of pyrite/-cpy occurs in the vein in the ch adj to the vein

Vuggy qtz veins are lined with epidote xls epidote intermittantly to 648

25 mafic → chlorite locally

well minlzed zones are pervasively sericitized contain hem - cpy - bn

26 Mainly gouge low ∡ to core? Fs altn porcellanous wh → tan

28 Mainly gouge - one frag had chlor-coated shears at 30° to core

29 " " - low ∡ to core
Frags have chl. mafic - white → gray fs (not soft) 758 mafic → chl fs grnish wh

30 Fault ends ~750 Rock is then Skeena w. Chl. mafics

L28

Ftge Box	Grade	Qtz Veins	Pyrite	CPY > BN	Fs, Alt'n: Tan	Yell. Green	Dk Green	Ser. Fract.	Hairline Cracks	Quartz Sericite zones	MoS2	Rock TYPE	Comments on Vein Types
759-775 (31)	v/g	1.8	—	✓	—	p1 l2	—	u	u	10	—	5	qtz-ser-cpy ±chlorite; qtz → k-spar halos
790-807 (33)	v/g	1.2	v/(tr)	✓	p2	l2	—	u	u	20	X	?	qtz-cpy-bn qtz-cpy-ser-halos
826-845 (35)	lg	1.5	v/local	✓	—	p1	—	c	u	—	—	5?	qtz-cpy-bn qtz-cpy-ser
863-879 (37)	lg-	1.2	✓ local	v₀₇ =	—	p1-2 l3	—	u	u	10	x	?	qtz-cpy qtz-ser-bn
897-915 (39)	lg-	4	—	✓	l2	l2	—	u	u	10	x	mixed	qtz-cpy-MoS2

31 Mafic 10%; chloritized qtz large euhedral
chlor. veins are unmineld
qtz-ser-cpy zones cut by laminated cpy-bn-qtz veins

32 Gouge 795 → 20° to core

34 Bonanza cpy for 1 foot (812-813) adj. to post-mineral fault

35 Pyrite in green fs alt'n zones - dissem. w. cpy
mafic - chloritized
aplite stringers 839 → EOBox (50° to core axis)

37 one narrow aplite @ 25° to core
mafic → S.C.

39 Local lg pods - overall v/g
Rock is alt. 5 and D12 (large squarish (+plag phenos) quartz x/s in aplitic matrix)
Porphyry seems to start at 909 - sep. by sheared zone for alt. 5

40 Continues throughout 40 + gets coarser grained
Fair bit of gouge in 40

912 chalky yellow white fs altn

L 28

July 15/71
Sunny

Box Ftge	Grade	Qtz veins	Pyr	Cpy ? Bn	Fs Altn: Tan	Fs Altn: Yell Grn	Fs Altn: Dk Grn	Fs Fresh	Ser Fracts	Hair-line cracks	Qtz ser. zones	MoS_2	Rock Type	Vein Comments
41 934-942	vlg	1.8	–	✓	l2	p2 l3	l2	–	–	u	4	–	D12	qtz w ser envel. qtz ser bn zones barren qtz. cpy
44 979 998	vlg	2	–	✓	l1-2	p2-3	–	–	u	u	–	–	D12	qtz ± cpy ser-cpy-hem (cockeram)
46 1018-1037	vlg-	2.2	–	✓	p1 l2	l2	–	–	fairly c	u	10	✓	D12	qtz ± cpy qtz+cpy w ser halos
48 1056-1075	lg	2	–	✓ or =	–	p2 l3	–	–	c	u	4	–	D12	qtz-bn-cpy w. ser. halos
50 1070-1106	?	2.2	✓	✓ local	l1-2	l1-2	–	–	c ?	?	some ?	–	? D12	py-cpy-qtz bonanza veins in gouge

41 Gougy 943-947 bx & to core

43 Barren qtz cuts qtz-ser-
Local kspar altn

44 Some qtz veins have tan-colored halos - these replace green alteration zones
locally qtz eyes in the por are 3/8" across.

45 also 44 a fair # of qtz veins are subpar. to core

46 Mafics loc. → chl + Cu sulphides
D12 finer grained again
Gouge 1036 → 1041 cpy + qtz + MoS_2 ground cy ∴ post-ore

47 Qtz veins cut sericite pods
Barren " " are cut by qtz-ser brg fractures (ser. fracts)

48 Qtz veins subll to core

1085 qtz vein w. pink selvedge, rock has grnish (chl?) fs altn

vein ½" ll to core

fractures (some contain ser, some show sl. yell. discoloration

Qtz-ser-cpy fracts cut qtz veins
Quite a bit of black hem. in altn halos around some qtz veins

49 Several qtz-cpy veins w. K-spar halos

50 Mainly post-ore gouge 1091 → end of box

L28

Box Ftge	Grade	Qtz Veins	Pyr.	Cpy ≥ Bn	Fs Altn Tan	Fs Altn Yell Grn	Fs Altn Dk Grn	Fs Fract	Ser Fracts	Hairline Cracks	Qtz ser Zones	MoS_2	Rock Type	Vein Comment
52 1123–1142	lg–	2	–	✓	l2	p2 l3	–	–	u	u	15'	x	D12	qtz (barren) cut qtz-ser-cpy-MoS_2
54 1160–1177	vlg	5	–	?	l2	more l2 common	–	–	u	u	?	✓ local	6	Barren qtz
56 1194–1211	lg+	2.2	–	=	l1	pl-2	–	–	u	u	2½	[illegible]	6	qtz-cpy-bn w. ser halos
58 1230–1246	Lg–	2.5	–	x	_	pink (kspar) altn			u	u	3	–	6	barren qtz cut qtz-ser zones (now hematite)
59 1246–1250	vlg	?	–	✓	_	pink altn l2		–	u	u	2 [illegible]	–	D1 × 6 (1246 → 1247)	magnetite dissem. & as stringers 1245 → EOH

— EOH —

51 virtually all gouge – subparallel to core ?

52 Barren qtz ∠ 75° & subpar. to core ; mnlzd veins subpar. to core
Gouge to 1127
– One "barren" qtz vein has a central crack which contains a stringer of cpy.
– K altn around some qtz veins replaces earlier yell. green altn

53 The rock is now coarse enough to be called Bsda –
qtz xls quite large
Fs locally intense tan altn (is seen to be chalky off-white where freshly bken)
Qtz-ser-cpy-MoS_2 veins occur

1208 – crumbly yellwish fs altn

54 local thin aplite stringers // to core
Pink altn around some veins
Gougy 1161–1174 (20° to core ?) – MoS_2 in qtz vein caught up in gouge

55 local cpy-bn in qtz-ser zones
mafic fg bi – chloritized – 9%
aplite stringers subpar. to core
Rather fg vs of 6 & a cg vs of 6 both occur
Pink altn zones repl. ser. zones
Some local spectac. qtz-bn-cpy veins

L 28

Box 57

qtz-ser. zones are cut by barren qtz veins.

The rock is Bsda. The qtz-ser. zones occur every 3 feet & have cpy > ba (reminiscent of Valley Copper)

Gouge zones 1226 - 1230

LORNEX DRILL HOLE 25 (L25) July 19/71

Box Ftge	Grade	Qtz Veins	Pyrite	Cpy > Bn	FS Altn: Tan	FS Altn: Yell. grn	FS Altn: Dk grn	FS looks fresh	Ser. Fracts	Hairline Cracks	Qtz Ser zones	MoS_2	Rock Type	Vein Comments
1 55–88	oxide zone	2	–	?	pink altn	l1-2		–	u	u	NIL	–	altered 5?	oxide zone has mal & bl. oxide + hematite
3 110–135	oxide zone	4	–	?	– yellow altn	l2	–	–	u	u	15	–	D13 see below	quartz-barren mainly
5 153–173	oxide zone	2.5	–	?	pink to chalky white or pale yellow 2→3			–	u	u	4	–	D13 +?	vuggy qtz + Cu oxides
7 19~~1~~ to 211	rusty v/g	1.8	–	x	overall pale — yellow (2) ~~[illegible]~~ 2		–	–	u	u	7	–	D13	still some malachite qtz-bn-cpy
9 230–250	lg–	1.5	–	x	–	l2	p2	–	u	u	10	–	6?	qtz-cpy-bn

2. altn pale green, int. 2 ; ~~oxide~~ sulphide cores may be seen in some oxide ~~[illegible]~~ blebs.
Thin white granophyric dyke (s?)

3 Some of the rock is leucocratic qtz-eye granophyre – the whole box may be but altn obscures textures.

(195 oxide zone, yellow altn)

4 Gougy (pebbly gouge), pale yell → wh altn, oxide zone,

5 C.R. is D13 (qtz as euhedral → squarish eyes in granophyre base) apparently throughout the box – altn confuses the identification.

6 Contains some D13 for sure but some areas seem to be 5 with mafics altered beyond seeing (ie sericitized so the rock looks leucocratic)

7 Zones occur where the rock is a white qtz-eye aplite others where it has qtz + plag phenos + looks like leucocratic Bsda

8 Locally the rock here is biotiferous (sl. chloritized) and is ~~[illegible]~~ sericitized Bsda (6) rather than D13.

9 Altn makes ID of rock uncertain but biotite (chloritized) was recognized + quartz eyes occur

L 25 19/7/71

Ftge	Grade	Qtz Veins	Pyr.	Cpy > Bn	Fs Altn: Tan	Fs Altn: Yell Grn	Fs Altn: Dk Grn	Fs "Fresh"	Ser. Fracts	Hairline Cracks	Qtz ser zones	MoS_2	Rock Type	Vein Comments
11 270 - 288	vlg	3	—	X or =	—	yell-pale green 1-2	-	—	u	u	15	—	6	qtz - cpy - bn no altn halos
12 306 - 325	vlg	2	—	X ?	—	p2	—	—	u	u	10	—	6 ??	qtz - ser - cpy - bn; qtz - bn - cpy cpy cores
15 341 - 359	vlg	1.8	—	X?	porcellaneous white altn p2→3			to chalky —	u	u	NIL	Fair or → ed —	6 or 5?	qtz - barren qtz - bn - cpy, local sericite ± MoS_2
18 397 - 416	vlg	1.8	—	✓	after 410 is →	yellow → yell grn p2→3	up to 410 u p2	—	u	u	10	local	6?	qtz - cpy some lw. ser. halos
20 436 - 454	vlg	4	—	= ?	—	p. 1-2	—	—	u	u	10	in qtz cpy veins	5 ??	some vuggy cpy - MoS_2 - qtz assoc w & cut qtz - ser zones

yell grn altn int. 2 (pervasive) qtz - cpy - bn - MoS_2 cuts

10 (Dk green (2)) qtz - ser - cpy

also qtz - cpy - bn veins

* more cpy in qtz - ser zone

Mafic chloritized (completely)

11

Fs altn yellow-green → dk green ~~p3~~

12

Muddy - gouge 299 - 300 - low & to core?

279 yell-wh. altn mafic → chl

13 Gouge - 315 → end of 14 → 343 low & to core ??

red & green "gunge"

14 Has local (up to 2') competent zones but gouge continues to E.O. Box — C.R. 6 ??

15 Mafic sericitized & chloritized

375 pale olive green altn

Gouge: begin. of box → 342½

: 357 → 360 ; 366 - end of box

Local zones of mafic concns occur.

16 yellow → yellow grn fs altn (p2) local ochreous hematite blebs

Both books sericitized or "fresh" — locally reach concns of 15%.

Vuggy veins have cpy in vugs

17

18 Qtz - bn - cpy veins occur which have pink-ish tan altn halos

Mixed yell grn & dk green altn (both are sericite altn)

20 The CK is very mafic (chloritized) - some mafic x15 were obviously hornblende.

19 Gouge 416 - 421 & locally thereafter

20 Qtz - cpy - MoS_2 parallel to core, mineln @ edge of vein

L25

19/7/71

Ftge 454→	Grade	Qtz Veins	Pyr.	Cpy >Bn	Fs Altn: Tan	Fs Altn: Yell. Grn	Fs Altn: DK Grn	Fs "fresh"	ser. Fracts	Hairline Cracks	Qtz ser Zones	MoS_2	Rock Type	Vein Comments
473 21 – ~~489~~	lg	3	–	X	–	p 1-2	–	–	u	c	15	–	5?	bn ~~py~~ cpy replace mafics bn in cracks
23 489-507	lg-	3	–	=? or X?	–	l 1-2	(chalky white locally)		locally c	locally c	5	–	?	cpy in qtz-ser bn in qtz + hairline fracts
25 526-543	lg	2.5	–	X or =	l2	l2	–	–	Both present u	u	15	–	5?	qtz±bn±cpy
27 562-580	lg	3	–	✓	porcellanous	l1 white	–	–	u	c	5	–	5?	20/7/71 qtz-cpy-bn qtz? ser-cpy±bn qtz veins w. ser. envelopes
29 610-629	lg-	10	✓	=	–	p1	–	–	u>c	u>c	10	–	5	bn repl. mafics

21 Rock continues to have lots of mafic + to look like 5 but most of the mafic is biotite

Hairline cracks cut by ~~b~~ barren qtz veins

Barren qtz veins cut barren qtz veins

22 Gouge 485-489

> 520 white ser. gouge

23 Rather gougy 60°+ to core in 2 or 3 short sections

24 Gougy (sericitic, muddy type) throughout – ~~[illegible]~~ 50° to core

Some MoS_2 – some slips subparallel to core

25 Good values in "mylonite" zones w. qtz-bn, some cpy
544-545 (30° to core)

26 CR chl. skeena, Some qtz-ser-cpy-bn zones

27 Mafic chloritised

> 546 mafic → chl, yell-white fs altn

28 N/C (No comment)

29 Mafics chloritized, rock foliated @ 20° to core

611-620 Gougy (pebbly, sericitic type) 20° to core

Bi + Hb, large + small grains, qtz anhedral, open interstitial texture.

616 a small amt of epidote coats a fracture

30 (lg+) Post-ore white, slimy sericitic muddy gouge 633 → End of Box

local bonanza qtz-cpy: qtz-MoS_2 ~~[illegible]~~ in gouge low ∡ to core (subparallel)

L25 20/7/71

Ftge Box	Grade	Qtz Vein	Pyr.	cpy > Bn	Fs altn Tan	Yell Grn	Dk Grn	Fs fresh	Ser Fracts	Hairline Cracks	Qtz ser zones	MoS_2	Rock Type	Comments
648–666 (31)	lg +	3	✓ local	✓	– (3 in gouge)	pl	l2	–	u	u	5	X	5	qtz-ser-cpy " cpy ± py.
683–700 (33)	lg	3	~~✗~~ –	x slightly	–	l1	–	–	c	u	5	–	5	qtz-cpy-bn w. ser. halos
718–736 (35)	lg -	3	–	✓	– same as 33	l1	–	–	c	u → c	15	–	5	qtz-cpy-bn 45° to core
755–774 (37)	lg -	7	–	✓	Like 33 to 768 then pink fs altn				u → c	u	4	–	5	qtz cpy bn 40° to core
811–830 (40)	lg -	4	–	✓	local pink mainly mod-int. sericitizn		l2→3		u → c	u → c	4	–	5 ??	cpy-chl in cracks qtz-cpy (almost barren (s. cpy)) qtz veins cut qtz-sericite zones

31 local bonanza type qtz - cpy ± pyrite veins 648-655
(649) "cubes," "openspace filling"

32 Qtz veins 2' apart - often barren, thin, 45° to core
cpy > bn in qtz-ser zones cpy repl. mafic?
Some veins w. pinkish halos
chl after mafic + on joint faces

33 local spectac. qtz veins w. pockets of cpy + bn and sericite
Bleaching of fs occurs adj to ser. ~~std~~ brg fracts
The rock is rel. fresh but mafic is chloritized.

34 Hairline cracks common - fracts. smeared with cpy-chl. - Mafic generally → chl but some to sericite

35 ~~chl~~ ser - qtz - cpy fracts. ; some qtz veins have pink halos

36 N/c

704 mafic → chl. ~~propylitic~~
fs → pale greenish wh. altn

37 Mafic chloritized
Local sericitic gouge zones
Vuggy sericite - qtz - cpy cut by qtz - cpy

38 qtz veins 2' apart, altn like 33 but w. local pink zones
One 2' zone is ~~sth~~ milky qtz w. ser. and chl. - cpy pods
Veins qtz - bn or qtz - cpy, 45° to core, narrow bleach or pink halo

~~38~~ 40 Mafic sericitized mainly, some chloritization
qtz veins w. pink or sericite halos

~~40~~ 39 Gouge - low ∠ to core 799 - 803 - locally has sheared bonanza-type
qtz - MoS_2 - cpy veins

826 Mafic → ser, pinky-tan altn

L25 20/7/71

Box Ftge	Grade	Qtz vein	Pyr	cpy >Bn	Fs Altn Tan	Fs Altn Yell Grn	Fs Altn Dk Grn	Fs fresh	Ser. fracts	Hairline Cracks	Qtz ser zones	MoS_2	Rock Type	Comments
41 830-848	lg	2.2	–	✓	local	p1 pink	l2 altn	–	c	u	2	–	5	vuggy qtz-cpy qtz-ser-cpy
43 866-883	lg	3	–	✓	–	–	p 2-3	–	u	u	NIL	–	?	qtz-bn-cpy chl-cpy
45 900-920	lg	4	local ✓	✓	–	p3 waxy	–	–	u ?	u ?	?	✓	?	Bonanza-type qtz+cpy veins pyr
47 938-957	lg-	3 narrow	–	=	–	p 2-3	l 2	–	u	c	15	–	5?	qtz-bn ± cpy qtz-chl-cpy cracks
49 975-992	lg-	5 narrow	≠ –	=	– –	p1 yellow → pale green	–	–	c	c	NIL	–	5 w	qtz-bn-kspar sericitic inner kspar outer halos

↑ Bn + cpy replacing mafics

41 Gouge 832 – 834

42 Lg+ qtz-ser zones continue at 2, p.2 yell-grn altn
local kspar altn cpy >> bn in qtz-ser zones

43 Gougy 870-874 - sericitic mud type – possibly 40° to core
local kspar altn + pink areas which seem to be taken up altered aplites
Fs altn of chl.-qtz-sericite type

994 yell-grn altn
mafic → ser

44 Fs – dk brown (argillic) intense after 896 before is pale yell grn intense
Gouge - sericitic mud type – 881 → 890 – 40° to core?

45 Much gouge 903 – 921 – at low ∠ to core? · Mafic → sericite

46 less sheared altn. yellow-grn (p2) Mafic → sericite
Qtz-chl-bn along common hairline cracks

47 Mafic chloritized
Barren qtz cuts minlzd hairline cracks

48 Fresher, altn yell.grn → white (p1) [local int. 3] Skeena
a few thin calcite veins (white) mafics chloritized
sericitic fracts w. cpy, Hairline cracks w. chl, bn, cpy

50 Local sericitic gouge zones; yell.grn p2
vuggy qtz - cpy
Local, minlzd w. cpy qtz-eye aplite

L25

Box Fr-to	Grade	Qtz Veins	Pyr	cpy >Bn	Fs altn Tan	Yell Grn Grn	DK Grn	Fs Fresh	Ser Fr	Hairline Cracks	Qtz Ser Zones	MoS_2	Rock Type	Comments
1010–1030 51	lg	2	–	✓	–	p1-2 l3	(pink each locally)		u	u→c	10	√√	5?	Qtz-cpy-MoS_2 w. ser. halos Barren qtz
1049–1069 53	good MoS_2 lg	3??	–	√?	golden l3 brn	p2 away fm gauge	–		u→c?	u→c ?	?	√√	?	qtz-cpy-ser
1084–1102 55	lg-	5	–	✓	–	p2	–	–	u	u→c	?	–	?	Barren qtz qtz-cpy (in vugs) Qtz-chl cpy splotches
1120–1136 57	lg-	7	–	√?	–	p1→2 – (pink l2)		–	u→c	u→c	5	–	5	qtz-bn (see below)
1154–1173 59	lg-	2.5	–	X?	(local	p2 yellow-2)		–	?	?	?	–	?	vuggy qtz bn cpy

51 Gouge 1010–1012 subpar. to core ; cracks have blots of bn-chl along them
Some ocherous hematite
Veins 30→20° to core mostly

52 veins <30 + 50° to core, local kspar altn, no MoS_2; lg-

53 Gougy 1050–1060 Black, graphitic looking matl in sheer zone partly MoS_2, partly chlorite
ocherous hematite

54 Bn > cpy locally mafic → chl rather than sericite

55 Mafic → sericite

56 CR is 5 - mafics chl or sericitized
Local kspar altn. + qtz-kspar-cpy-bn veining

57 Qtz-cpy cuts qtz-sericite-cpy ± bn
mafic → sericite or chlorite

58 Mafic chloritized or sericitized CR is skeena

59 Mafic → ser & chl
The rock is ~~apparently sheared~~ intensely shattered + most frags are less than ¼" across

60 yell grn > yellow + pink (kspar) altn all local + level 1→2 Mafics → sericite
ser. fronts - c hairline cracks u→c Qtz-Ser Zones 10 borders on quartz veins
Qtz-cpy cuts qtz-ser-cpy

1131 fs ~~veining~~ yell→pink altn mafic→ser

1151 grnish fs. altn, mafic variously + chl, ser

20/7/71

L 25

Box Edge	Grade	Qtz veins	Pyr	Cpy >Bn	Fs altn: Tan	Fs altn: Yell Grn	Fs altn: Dk Grn	Fs Steel	Ser Fr.	Hairline cracks	Qtz ser zones	MoS_2	Rock Type	Comments
1190-61 1208	lg-	1.8	-	x?	- local	p1-2 pink	- 2	-	c	c	5	—	5	qtz-ser zones halo qtz veins
1227-63 1244	lg-	3	-	=?	- (local	p2 pinkaltn)	-	-	c	u	4	-	5?	qtz-ser-cpy cut by qtz; 2 cpy-qtz-MoS_2
1261-65 1278	lg-	4	-	✓?	-	l2	l2 sericite	-	u	u	10	✓	?	
1297-67 1316	v lg?	sericitic gouge + low % to core?											? -	remnant trace yellgrn p3
1333-69 1350	v lg	0.8?	-	✓	-	P l2	-	-	u	u→c	2½?	—	5?	qtz-ser-cpy; qtz-cpy

62 1222-1223 qtz with fist-size cpy pods, barren qtz veins & qtz-ser-bn ± cpy zones also occur

64 Shearing subparallel to core striae 70° to core axis (gouge 1250 – 1258)

65 Gouge 1272 - 1274 sericitic mud

66 Gouge 20° to core? 1291 → 1316 yellgrnaltn p 2→3 sericitic

68 Mafic → sericite, fs has yellow → yellgrn altn veins barren qtz 30 + 40° to core
Hairline ✓ ser fracts u → c v lg

1290 loc. emerald green fs altn, mafic sericitized

69 Gouge to sericitic groundmass 1338 1350 - 1350
Mafic → sericite
qtz veins 0, 20, 70° to core

70 1350 - 1353 (EOH) v lg
local intense pink (kaspar) alteration

L27

21/7/71

Box Ftge	Grade	Q Veins	Py	Cpy >Bn	Fs Altn Tan	Fs Altn Yell Grn	Fs Altn Dk Grn	Fs fresh	Ser Fr	Minl Cr	Q ser zones	MoS_2	Rock	Comments
1 38-57	oxide	malachite, qtz veins in a yellow wthd qtz-rich rock										vv		
3 75-95	oxide lg	2	—	=? or x?	—	p2 l3	—	—	u	c chl-coated	20	vv	5	qtz-bn ± cpy
5 114-134	pebbly gouge throut — may have some extraneous core — "not logged"												?	22/7/71 continues to be oxidized
6 134-153	lg-	5?	—	x	—	p 2→3	—	—	c	u	5?	✓	?? 5	qtz-MoS_2-bn qtz-bn ± cpy
7 153-171	lg	3	—	x	l3 (very local)	p2→3	—	—	c	u	2	—	alt'd ?	qtz-bn ± cpy u qtz-ser halos
9 191-211	lg	2.5	—	x	— yell→	p1-2 yell l3	— grn	—	u→c	u→c	5	—	5?	qtz-ser-bn-cpy barren qtz 70° to core zeolite?

2 oxidized zone but sulphides present — qtz-MoS_2-cpy vein
malachite — qtz-cpy-bn w ser halos (fs paleyellow)
apprec. MoS_2 CR?

3 Cpy-Bn in qtz vein subparallel to core ½" wide 107 dk grn altn
Fracts. have yell-brn iron oxide coatings
some malachite

4 Much of box 4 seems to be D13 but I can't see the transition in box 3 because of alteration.
* the ~~early~~ late part of box 4 has mafic 10-20% so D13 is a dicy ident. — but large euh. qtz's are present — confusing! It may be that it is all 5!

6 Gouge throughout but no extran. mat'l added by packrats
sericitic

7 Qtz veins (20° 6°) to core

8 Similar but lg-, CR 5? still too alt'd to be sure

9 Mafic (20%) rel. fg 5 - elsewhere it has porcel. wh altn + could be D13 (I don't think so tho).
mafic → ser + chl.

10 Gouge 30° to core 221-223
CR ?

L27

22/7/71

Box Ftge	Grade	Q Veins	Pyr.	Cpy >Bn	Fs altn Tan	Fs altn Y.Gn	Fs altn DkGn	Fs altn Fresh	Ser Fr	Minl Fr	Q Ser Zones	MoS_2	Rock	Comment
11 229-247	1g-	3	—	X ?	l1 cream	p2	l3	—	C	C	8	perhaps	?	qtz-bn-cpy w ser. halo
13 265-282	rel high Mo 1g-	2.5	—	X	—	p2 l3	—	—	c	c	10	local ✓✓	?	Qtz-MoS_2 sheared ‖ to core qtz-bn-cpy
15 298-316	rel High Mo 1g-	4	—	? =	altn wh → pale green int. 1→2			—	c	c	10	✓	5	ser-bn-cpy cracks cpy repl mafic
17 334-351	high Mo 1g	2.5	—	X	—	p2 l3	—	—	C	C	10	✓✓	5	Qtz w MoS_2 edges Qtz-bn-cpy ±MoS_2
19 369-386	1g	2.5	—	✓	l2	p2→3	—	—	C qtz-ser cpy bn	C chl-ser	5	—	?	Bonanza Qtz cpy

11 Cpy-Qtz-MoS_2? sheared @ 50° to core 236
Fractures chl-coated (inch scale)

12 Qtz veins 30 + 60 to core, ¼ → ¾" wide
CR 5? Mafic → ser + chl

13 ocherous hem in minlzd cracks
Joints chl-coated (inch-scale)

14 altn int. yell grn 1→2, CR prob 5 but some zones look like 6

262 cream altn

15 altn less, chl-coated fr. less
Minlzd cracks mainly have only chlorite or ser + Cu sulphides.
Qtz-ser + bn + cpy + MoS_2 veins 35° to core   mafic → chl or ser.

16 MoS_2 high in qtz veins 30-40° to core
More altn + better grade than 15   Bn > Cpy
Two 1' gouge zones (sericitic)

457 cream altn bi → ser

17 Chl-coated fractures
ocherous hem. in sericitic zones
Most veins 20-30° to core, some 50°

18 Fewer qtz-veins, lower grade - one dead rat!
2 small ser. gouge zones

20 Thin barren qtz veins 35 & 40° to core   CR 5?

L27 22/7/71

Box Ftge	Grade	Q Veins	Py	cpy >Bn	Fs Altn: Tan	Yell Grn	DK Grn	Fs frost	Ser Fr	Mins Fr	Q ser zones	MoS_2	Rock	Comments
403-422 (21)	vlg	5	–	X	cream to pale green			–	c	c	10	local √√	5	qtz-ser-bn-cpy fracts. ugly qtz-MoS_2-bn-cpy
439-456 (23)	MoS_2 high vlg	5	-	√	l2	p2>3	–	–	u?	u	10	√	?	shears qtz-cpy-MoS_2
475-492 (26)	vlg	3	-	=	l2 pink	p2-3	–	–	c	c	3	√?	5 √ D13?	qtz w some bn cuts sericite zone ser cpy bn cpy-bn-chl
492-511 (27)	vlg	3	-	= ?	-	p1-2	–	–	c	c	20	√	5	ser-cpy-bn cracks
528-544 (29)	vlg	5	√?		wh. pale	porcel. green level 1	to altn	c	c	20	–	–	5	cpy-bn repl. mafic qtz-cpy±bn w sericite clots

(pink local 1>2)

21 Chlorite coated fr contents but no 1/foot
mafic → chl or ser
Thin barren qtz veins

22 Fs altn yell grn 2→3, qtz-MoS_2-cpy veins

cpy > Bn

23 Gouge 447-448, 453-455
(low ∠ to core) (40° to core)
Mostly pack not rock

24 Very little if any MoS_2 otherwise sim. to 23 (vlg)
Fs altn locally yellow

25 Too much pack rock debris - not done -

26 Some of the CR is 5 - in one area tho, large square qtz's occur (alt. 5 or D13?)

27 Mafic → chl ± ser

chl coated fr. coming in again after 500'

28 like 27 but less altered
Veins of qtz-bn-cpy-MoS_2 w. thin sericitic envelopes occur

29 locally chloritized cracks are 1/8" apart at 35° to core
532, white altn chloritized mafic

30 Similar to 29 but somewhat more pink altn
(25% of box pink (1>2))
one chl-epidote vein seen

L 27

22/7/21

Box Ftge	Grade	Qtz Veins	Py	cpy > Bn	Feldspar: Tan	Feldspar: Ygn	Feldspar: Dk Grn	Feldspar: Fresh	Ser Itr	Min. cr.	Qtz ser zones	MoS2	Rock	Comments
31 562-579	lg-	5	-	√ Bn =?	wh → yell → pale green (1→2)				c	c	20	✓	5	ser-cpy-bn qtz-MoS2-cpy chl-cpy
33 598-615	lg-	7	-	=?	-	pl-2	l2		c	c	20	-	?	N/c
35 635-652	lg-	7	-	? =	porc: wh almost + fresh				c	c	20	-	5?	chl-cpy cpy-bn fracts. cpy-ser
37 670-687	lg-	7	-	√	" " " local pink (1→2)				c	c	5 ~~10~~	✓	5?	qtz-cpy-MoS2 qtz-Bn w ser envelopes
39 705-723	v lg	10	-	√	" " " local pink (2)				c	u→c	7	-	5	qtz-cpy qtz-cpy-bn qtz-ser-cpy ser-bn-cpy ± qtz

31 Mofic → chl +/ser
Mainly fr. + cracks (35°/60°) to core

32 Similar to 31, local zones less altered 640

33 The core has a distinct green aspect because epidote clots, chlorite? of chl-ser coated fractures

34 Green aspect to 619, gray thereafter
The gray zone is characterized by (2" spaced) qtz-ser zones cpy in one 2' section, and by white porc-fr altn elsewhere. Better grade than 33 + cpy > Bn

35 Gray aspect (36 also) — albitized ??
~~Grn~~ Two epidote clots in chlorite zones

36 One epidote clot, a few chlorite clots

37 Mainly a gray aspect cpy = bn
Two ep. clots

38 One fist-size ep clot, no MoS2 otherwise like 37

39 Several epidote-chl. clots

40 723 → 742 cpy-chl fractures, No epidote seen
Mofic → chl +/or ser.

735 white altn bn-qtz-ser veins w. ser halos

unknown black, sooty mineral (tour?) locally (sampled)

HIGHLAND VALLEY DRILL LOG SHEET

Hole L 27 Date 11 Aug 72

Property Lornex

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

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. > Bn.	Feldspar Alteration: white	green	pink	Feld. Fresh	cpy-bn-chl-ser	mafics → chl	Qtz.-Ser. Zones	MoS_2	Rock Type	Comments
41 760-778	lg+	5	–	√	2p	–	–	–	.5	√	–	√	5	
43 793-810	lg	5	–	√ or =	1p	2 l	2 local	–	.5	√ + ser	6	–	5	
45 828-846	lg+	7	–	=	1p	–	–	–	.2	√ + ser	6	–	5	
47 864-882	lg+	10	–	×	1p	2 l	1 l	–	.2	√ + ser	10	√	5	
~~49~~														

Mult. Sets of Fractures

41 qtz - MoS_2 - cpy veins, vuggy 30% core servate selvedges at edges up to 1½" wide
qtz - ser - actn - cpy veins - bonanza - type
mult'd fractures - ~~qtz~~ - cpy ± bn ± chl - ser

42 argillic plag altn locally intense

43 aplite @ 801' for 3" - white with bi phenos + qtz eyes
mult'd fractures subparallel @ 35° to core
qtz - ser - low ∠ to core
qtz - cpy ser edges 30° to core

44 white fs altn general

45 qtz - bn ± cpy stringers @ 30°
cpy - ser (flaky) mult'd fractures 10°, 50°
bn on fracts 0°
qtz - ser - cpy 10°

46 L27-861 chl - cpy - biotite (?) on fractures 0°; zeol. fr.

47 bn - cpy on fracts 35°
qtz - cpy - MoS_2 qtz - cpy - bn stringers 35°

cpy - ser ± bn 20° (fractures) L27: 884 calcite ? K-spar?

48 mafics - qtz - cpy servate selvedges → cpy > bn, lgt

qtz - bn with cg cpy pods - low ∠

1M-572-3322

HIGHLAND VALLEY DRILL LOG SHEET

Hole L27 Date Aug 11/72

Property Lornex

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

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. ∨ Bn.	Feldspar Alteration: wh	grn	pink	Feld. Fresh		Mafic → chl	Qtz.-Ser. Zones	MoS_2	Rock Type	Comments
49 899-917	lg	5	—	=	1 p		1 l	–	–	✓+ ser	10	–	5	
51 932-948	lg+	4	–	X	pale grn 1 p		Tan 1	—	–	✓ + ser.	4	–	5	more bken up than preceding
53 966-985	lg-	?5	–	X ?	–	2-3 p	2 l	–	–	ser	?5	✓	5+ D7	closely fractured after 955'
55 1000 1021	lg	5	–	?X	–	2-3 p	ser brBN	–	–	✓ + ser	?6	✓	5	—
57 1038-1055	lg	5	–	X	yellow-green 2p			–	–	✓ + ser	3	✓	5	relatively massive

49 qtz - bn - some cpy 40°
ser - cpy on fractures 10°
qtz stringers with bn pods 30°

qtz - bn - cpy - green flaky ser. 30°

50 slightly lower grade, lower altn intensity

57 qtz - bn with qtz - ser - bn halos > 1" wide @ 35°
fracts. w. ser ± cpy + bn @ 10°
locally, fracts ≈ ¼" apart all w. some menlzn

53 MoS_2 on shears @ 0°, 10° Streak 80° to core axis
qtz - cpy - bn stringers @ 30° cpy - ser fracts @ 10°
in aplite fragment L27:934

54 fairly closely bken with green altn generally

55 almost mud in some places MoS_2 on slips
local zeolitic altn + veining
milky qtz w. cpy - bn blebs shearing post min.
& flaky sericitic zones L27:1008
cpy > in qtz veins bn > in fractures

56 fairly massive after 1025

57 qtz veins with bn pods 20°
qtz - ser - bn - cpy 35° - pink altn halos
milky qtz - cpy - MoS_2 - v vuggy

1M-572-3322

HIGHLAND VALLEY DRILL LOG SHEET

Hole L27 Date Aug 11/72

Property Lornex

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

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. Bn.	Feldspar Alteration wh	grn	pink	Feld. Fresh	min. fr.	mafic →	Qtz.-Ser. Zones	MoS_2	Rock Type	Comments
59 1075 - 1092	lg	4	–	=	–	1 p	2 l	–	.5	chl + ser	5	✓	5	local shearing
61 1110 - 1128	lg-	7	–	✓	yellow → cream	1 p		–	↓	"	4	✓	5	quite closely bken
63 1146 - 1162	lg-	5	–	= ?	1 p	1 l	–	–	1	some fresh chl	5	–	5	fairly massive
65 1179 - 1195	lg	5	–	? X	1 p	–	2 l	–	.8	mainly ser	7	✓	5	half + half
67 1212 - 1230	lg+	5	–	✓	1 p	1 l	1 l	–	.8	chl	5	✓	5	fairly massive, qtz enlarged

58 One thin white area could be derived fm qtz-eye
PPY (D13) ≈ 1' wide

59 1086 - 1089 mud-like gouge
qtz - MoS_2 - cpy veins occur in qtz-ser zones (or have qtz-ser halos)
local pink altn - kspar probably
chl on slips 20°
qtz veins w bn pods @ 30°
~~bands qtz~~ L27:1090
Kspar?

60 mainly gouge rock
~~qtz~~ - bn pods 40° ; qtz - ser - cpy - MoS_2 - 25°
pink altn halos

62 closely bken to 1135 then less so

63 qtz - bn ser - cpy
local sheared zones

64 local sheared zones – like 63

65 Half closely bken with pinkish altn half fairly massive
mafics → ser (some have assoc cpy, bn)
qtz - cpy - bn - MoS_2 + sericite halos 20°
qtz stringers 30, 50° fractures 0°, 30°

66 local, rich qtz-green ser - cpy - bn zones, calcite veins @ 50° in the aplite stringers
qtz-flaky ser-chl-cpy
L27:1228

67 qtz - MoS_2 - cpy w. ser zones ; qtz - ser - cpy zones 30°, pink halos

1M-572-3322

local bonanza qtz-ser-cpy-bn (some) zones - strong fabric 40° to core

HIGHLAND VALLEY DRILL LOG SHEET

Hole L27 Date Aug 11/72

1391 (EOH)

Property Lornex

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

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. > Bn.	Feldspar Alteration wh	gm	pink	Feld. Fresh	mn fr	mafic →	Qtz.-Ser. Zones	MoS_2	Rock Type	Comments
69 1249-1268	lg+	4	–	✓	1 p	1-2 l	1 v.l.	–	.5	fresh or chl	7	✓	5	fairly massive
71 1286-1302	lg	5	–	? =	cream + grn 2 p		2 l	–	.8	chl or ser	7	✓	5	fairly rubbly
73 1321-1339	lg-	20	–	✓	white → pale green 1p			–	.5	chl or ser	7	–	5	fairly massive
75 1357-1373	lg	5	–	✓	1 l	1 l	1 l	–	.8	chl	5	–	5	fairly massive
76,77 1373-1391 (EOH)	lg	6	–	✓	–	1-2 l	1-2 p	–	.8	chl	5	✓	5	local shears + more intense altn locally

68 couldn't get box out of rack

69 qtz - kspar - low ∡ to core - has some bn
milky qtz - cpy - MoS_2 bn - chl fr @ 20° ± ser ± MoS_2
och. hem on fractures ser - cpy on fr. @ 35°
bn > cpy on fracts but over cpy > bn because of qtz veins

70 secondary biotite L27 = 1280

71 qtz - MoS_2 - cpy with sericitic halos, 10°
qtz - cpy - with ser. at edges + pink halos (kspar?)

72 cpy > bn otherwise fairly massive, se. chl, fs rel. fresh

73 ser - chl - cpy on slips, low ∡
ser - qtz - cpy - 0°, 30°
cpy - chl blebs on fr. face 0°

74 local intense green altn of fs, mafic → ser in them

75 ser - qtz - cpy w pink halos low ∡
pink + grn altn after 1360' qtz - bn - chl stringers 15°
milky qtz - bn veins - rel. lg

76 + 77 almost no qtz veins

1M-572-3322

1391-1395 pervasive green altn, qtz - cpy veins (low ∡)
+ qtz - cpy - MoS_2 veins

L26

20/7/71

Box Ftge	Grade	Qtz Veins	Pyr	Cpy >Bn	Fs Altn: Tan	Fs Altn: Yell Grn	Fs Altn: Dk Grn	Fs Fresh	Ser Fr	Hairline Cracks	Qtz Ser Zones	MoS_2	Rock Type	Comments
1 40-59	vlg	NONE	–	NO BN SEEN ✓✓	porcellanous white to pale green	p1			NIL	u→c	—	—	5	chl - cpy cracks
3 70 -100 ~~appx~~	vlg	NONE	–	✓✓	porc. white to pale green	p'		–	NIL	C	—	—	5	" " " discontinuous
5 113-131	v/g	7	–	✓✓	same as 3 but	l2+3		–	u	C	—	—	5	widely spaced quartz - cpy - cct? NO HALO
151-7 169	vlg	NIL	–	✓	same as 3			–	u→c	c	—	—	5	chl - cpy ± bn ± qtz
187-9 206	vlg	15	—	✓	same as 5			–	u→c	c	10	—	5	qtz - cpy - bn w. ser. halos

1. Mafic is chloritized ; Kspar - may be primary
   chl. on fractures
   NOT OXIDIZED!

2 Three 1' gouge zones in the box
   Calcite veining - thin - spaced 5' apart on avg

3 Chl veins often cpy brg (Hairline cracks) 70°, 30° to core
   calcite " - some calcite has crystal faces devel. ie
   veins 3' apart, 1/10" thick vug filling
   Kspar 8%, primary

4 Fewer calcite veins - ~~One~~ Two qtz - cpy vein w. ser.
   halo - chl. cpy cracks mainly 60-80° to core
   some ocherous hematite in a gougy zone 60° to core

5 ~~Ser~~. green altn zones 45° to core - possibly assoc - or
   cut by quartz veins - not certain
   calcite veins 10' apart

6 Like 3 but calcite less common 171 calcite

8 Like 6 -- small amt of ep. assoc. w. chl in one vein
   Gouge 203 - 205 - sericitic grdmass

9 Some calcite veining

10 " " "

One small zone of Kspar altn adj to a qtz-ser zone
qtz - ep vein w chl rim cut by calcite vein

L26

20/7/71

Box Ftge	Grade	Qtz Veins	Pyr.	Cpy >Bn	Fs Altn Tan	Fs Altn Yell Grn	Fs Altn Dk Grn	Fs fresh	Ser Fr.	Hairline Cracks	Qtz Ser Zones	MoS2	Rock Type	Comments
11 225-243	vlg	7	—	✓	—	P 1-2	—	—	~~u?~~	c	10	✓	5	vuggy qtz-cpy; qtz-cpy-MoS2 ±bn
13 263-281	vlg	10	—	✓	white, porcell. locally	p1 &2	—	—	u	c	10	—	5	chl-cpy±qtz cracks cont. to ~~be typical~~
15 300-318	lg-	10	—	✓ but close	Porcellanous white	int 1		—	u	c	20	—	5	qtz-bn w ser halo; chl-cpy cracks
17 334-352	vlg	5	—	✓ but close	" some	" yell green int.	" 2	—	u	c	20	21/7/71 ✓	5	MoS2 cpy ^ qtz-bn-ser. ~~halo~~ prdo; chl-cpy-bn
19 371-390	very high MoS2 lg	5	—	✓	~~371-378 2~~	371-378 2	387 to 390 2	—	u→c	u→c	7	✓✓	? –	qtz-MoS2-cpy vuggy; sheared qtz-ser-cpy (cpy as centre (vein))

pink kspar altn in same zone

11 altn a little more intense, some kspar altn locally
Some calcite veins
Mafic → chlorite

207 – 232 pink altn

12 altn is down to level 1 again

13 calcite veins present
Locally slightly more mafic 20% than usual 281

14 Six qtz-ser veins (that is qtz veins w ser. halos) all contain both cpy + bn — otherwise like 13

15 Contains mineralized ^quartz eye aplites at 45° to core 309-310 (cpy vein)
a little more gougy than the other holes
(No calcite)

16 318-334 Some yell grn fs altn as well as porc. wh.
Veins - qtz-bn w ser halo
(No calcite) Then qtz-cpy
± qtz-chl-cpy cracks

384 gouge

397 grn-gougy altn

Several sets of joints are chlorite-coated

18 Extensive (int. 2) dk grn ser+chl fs altn
Some calcite veining; qtz-cpy-MoS2; qtz-~~py~~ bn, cpy veins

19 Shears @ 30° to core 378-387 (MoS2 - rich zone)

20 Pebble gouge 409 → end of box
ferricrete cracks common

Dk grn (mainly sericite) altn pervasive (1→2)

L 26

21/7/71

Box Ftge	Grade	Qtz Veins	Py	Cpy >Bn	Fs altn Tan	Fs altn Yell grn	Fs altn dk grn	Fs fresh	Ser. Fr.	Mnlzd Cracks	Qtz-ser zones	MoS_2	Rock	Comments
21 411–432	Vlg	NIL	–	√?	–	after 426 p1	to 426 p2	–	u → C	c	NIL	—	5	sl. more mafic than usual gt3 quite well-shaped
23 458–470	vlg	10	–	=	almost fresh wh. → pale green	l2		–	C	C	10	√?	5	gt3-cpy w ser. halos
25 491–505	vlg	10	–	√?	slight pervasive	p1 pink altn		–	C	C	20	√ ??	5	mafic chlor.
27 524–542	vlg	NIL	—	√	Half the box has some pink altn	p1→2			c	c	20	—	?	nothing unique
29 557–573	vlg	10	–	√	–	p1	–	–	c	c	5	√ ?	5	cpy-chl-ser. cracks MoS_2 in gouge?

22 local good cpy, MoS_2 values otherwise vlg.

24 Crack - chl ± gt3 + cpy + bn   Mafic minls chloritized

25 Gougy 500 - 501, 504 - 505 (low ∠ to core)

26 Qtz - MoS_2 - bn - cpy veins w - ser pods
Ocherous hem on shears striae high ∠ to core axis
Pink altn l2   Pebbly on 1' scale locally

27 Gouge 524 - 532 (local "massive" zones 20° to core

28 Pebbly throughout on 2' zones (60% of box is gouge)
low ∠ to core

29 Gougy to 567 mostly pebbly but some sericitic
grdmass ~ low ∠ to core

30 Vlg almost fresh fs, mafics → chl. CR is 5

488 chalky wh. altn

569 pink + grn altn mafic → chl.

L26

21/7/71

Box Ftge	Grade	Qtz Veins	Py	Cpy >Bn	Fs Altn Tan	Fs Altn Yell Grn	Fs Altn Dk Grn	Fs fresh	Ser Fr	Minl. Cracks	Qtz-Ser zones	MoS_2	Rock	Comments
31 590-606	Good MoS_2 lg	4	–	✓	–	P 2⇒3	–	–	C	C	10?	✓✓	5?	qtz bx cemented by MoS_2, cpy qtz-bn-cpy
33 625-641	good MoS_2 vlg	5	–	X?	–	P1 ⇒2 ⇐3	–	–	C	C	10?	✓✓	5	qtz - MoS_2 qtz-cpy-Bn-MoS_2 cpy repl. mafics
35 657-675	vlg	4	–	✓? =?	almost fresh	P1		–	c	c	5	✓	5	qtz-cpy-MoS_2 qtz-bn-cpy chl-cpy
37 695-712	vlg	7	–	✓?	local	P1 ⇒ pink(?) altn		→ fv	c	c	?	✓ local	5	cpy-bn-ser
39 730-747	vlg	NIL	–	✓ ??	local.	P1 white		–	C	C	?	–	5	cpy-bn-ser-chl.

31 Gouge (sericitic) 570-571; 600-601, 604 → 606
(low ∡?) (20° to core) (50° to core)
Local bonanza (2" scale) cpy or MoS_2 values

32 Like 31 Gouge 607–608½, 617–620 C.R. 5?
(35° to core) (low ∡ to core)

34 Fresher than 33, no MoS_2, some FS → porcellanous white
Mafic clots up to 1" long dimension occur

35 Mafic → chl.

36 Porcellanous wh. altn vlg
ser-cpy-bn fractures

37 Calcite veins every foot or so (thin, white)
Locally mafics are fresh!

38 N/C

39 732–735 Gougy zone low ∡ to core

644 white altn, flaky ser.
711 pink + grn altn

734 gouge

L26

21/7/71

Box Ftge	Grade	Qtz V.	Py	Cpy >Bn	Fs Altn Tan	Fs Altn Y.G.	Fs Altn D.G	Fs Fresh	Ser Fr	Min. Cr.	Q. Ser zones	MoS_2	Rock	Comments
765-781 (41)	lg-	4	—	X?	porcel. white pervasive	P^1_{e2}		—	c	c	5	✓	5	see below
800-820 (43)	vlg	4	—	X	porc. wh. pervasive	P^1		-	c	c	4	—	5	qtz-ser-bn-cpy; chl-bn-cpy
834-852 (45)	vlg	v. thin 4/1/16"	—	=? or X	white or pink (hem) perv-level 2			—	c	c	10	—	5	ser-bn ± cpy " NOTE: "PINK ALTN"
870-887 (47)	vlg	5	—	X? and or =	porc white	P^1		-	c	c	?	✓? or ?	5	chl-ser-cpy-bn; qtz-bn(<cpy cores)
905-923 (49)	lg-	4 (thin) to 1" wide	—	—	e2	e2	—	—	c	c	5	✓	5	qtz-cpy-MoS_2; qtz-chl-MoS_2; qtz-bn-ser; qtz-ser-bn-cpy-MoS_2

local cream altn (2) → pink

41 MoS_2 w. ½" cpy stringer
Ser - Bn w. cpy cores ± MoS_2 — 30° + 60° to core, simultaneous
Mafic → chl or ser.

42 Barren qtz veins 50° to core either way
Mafic fresh, chlor. or sericitized
Then barren qtz veins are only an inch apart
over several 1→2' zones.

845 pink altn

43 Qtz - ser zones @ low ∢ to core

44 Fs altn yell → yell grn → porcel. wh, local pink (3) hematite?
Gouge 818 to 830 low ∢ to core

45 local slips "parallel" to core have black gouge - chlorite? I don't think they're MoS_2

46 Qtz - cpy veins, qtz - ser - cpy veins, cpy>Bn
cpy repl. mafics mafics → ser.

48 Qtz - bn - cpy - ser pods + halos 35° to core

50 Some cracks are MoS_2 - coated
stringers of aplitic plag. qtz rock with dissem. blebs of MoS_2 Bn + Cpy occur @ 35° to core

L26

21/8/71

Box Ftge	Grade	Q veins	Py	cpy >Bn	Fs Altn: Tan	Fs Altn: Yell Grn	Fs Altn: DK Grn	Fs Fr	Ser Fr	Minl. Cr.	Q ser zones	MoS_2	Rock	Comments
51 938 - 955	prom. MoS_2 lg-	2	—	X or =	— local	pl. white (1)	—	[illegible]	u	u	3	✓	5 + D7	qtz-ser±bn±cpy qtz-bn w ser halos
53 973 - 991	vlg	3	—	X?		pl-2 some white		—	c	u	5	—	5 + D13?	qtz-cpy-ser chl-ser-bn-cpy qtz-cpy
55 1005 - 1024	lg-	4 to 1017 then 0.5	-	X	fs paleyellow to yell grn		level 2	-	c	c	5	—	D13?	rock seems to be leucocratic
57 1042 - 1060	lg	0.9	-	X?	— (local whi altn porc → chalky)	pl-2	—	—	u	U	NIL	—	5? see below	—
59 1078 1096	lg-	2.5	-	X or =		pl (weak) l2 pink l2		—	c	u	10	—	5 after 1084	qtz-cpy-bn) qtz-cpy) scum of ser at edges; mafic → chl, ser

secondary bi (fresh) + bn-stringers (before?)

57 Qtz-ser-MoS_2 veined pale pink aplite
938 - 939
Mafics → ser & chl. 6" D13 qtz eye aplite @ #913'

52 Local dk green fs altn (2→3) mainly sericite
Calcite veining
Some areas have large qtz eyes - altn precludes establishing that they are D13 areas

53 local second. biotite filling fractures - or is it chlorite - it is common in this box. Apparently qtz-ser cuts (nearly barren) barren qtz (dilational offset noted)

54 Rock type uncertain overall but is D13 in part — 932 white altn
Box has sericitic gouge throughout
One qtz bn-cpy vein has sericite X/s along its edges as shown

55 Barren or with uncommon bn; pods qtz veins are 1/16 - 1/8" wide & 60, 30 & 0° to core — 980 qtz-ser veins cream altn
Dk mineral in qtz veins could be MoS_2 or bn - veins containing it cut qtz-ser bn-cpy zones

56 MoS_2, second. bi on fractures (several attitudes)
CR mixed 5 + D13 (looks like Bsda locally)

57 CR may not be 5 because second. bi may have been added.
Second bi in pods & areas not on fractures

58 Qtz veins like those in Valley qtz-core - almost barren, lots
60 Aplite stringers 1109 - 1111 otherwise all 5; Qtz-Bn-Cpy-MoS_2 veins of them

L26

21/7/71

Box Edge	Grade	Q Veins	Py	Cpy > Bn	Fs Altn Tan	Fs Altn Yell Grn	Fs Altn Dk Grn	Fs fresh	Ser Fr	Min. Cr	Q ser zones	MoS_2	Rock	Comments
1112 - 1129 (61)	Lg -	2	—	X	—	pl	—	almost ✓	C	u	NIL	—	5+ D7	gtz - ser - bn-cpy
1147 - 1166 (63)	lg -	4	—	X or =	—	pl	—	almost ✓	C	u → c	20	—	5+ D7	gtz - bn ser - cpy - bn
1183 - 1202 (65)	Lg -	10	—	=	white	pl parcel. pl also	—	—	C	u → c	20	—	5+ some D7	ser - cpy - bn bi - cpy - bn
1219 - 1236 (67)	vLg	7	—	X or =	"	"	"	-	C	C	NIL	—	5+D7	chl - ser - cpy gtz - ep - cpy (one vein)
1252 - 1268 (69)	*lg -	4	—	?	—	—	—	✓	?	?	?	V	D13 or 5?	gtz - cpy - MoS_2

local pink + z

61 Aplite 1118, 1121-1123 speckled with bn, chl. blobs + rich in secondary (?) golden biotite. Contact low & to core

* sericite in veins has been a rather pretty sea green color

occasional gtz veins have pinkish altn rims

62 The unusual aplites continue in box 62 - local gtz eyes

63 aplites continue - 30° to core - an inch to a foot wide 25% of total box

64 Calcite veins (a couple, 1/16"), pink altn (l2), local ocherous hematite mafic → chl and sericite

65 a few Calcite veins, second bi almost looks like ser, here 1" Qtz vein w. sparse bn has >1" envelope of gtz - ser - cpy ± bn

66 Cpy > Bn, Qtz veins 4' apart, very little D7 1224 white altn

67 Gouge on + off ~~1235~~ 1229 → 1236

68 Gouge 50° to core throughout the box, cpy > bn, MoS_2 may be present 1283 "fresh" plag 60% gouge 40% remnants

69 Box lightweight - poor recovery? sheared? It is definitely sheared but not sure to what degree - 30° to core

70 Qtz - bn - cpy w. sericite-gtz halos D13 again? + 5 _ May have started in box 69 / not easy to distinguish mingled cracks (C) ser. fr.; local pink altn Bn ≥ Cpy

L26 21/7/71

Box Edge	Grade	% Veins	Py	Cpy >bn	Fs altn Tan	Yell Grn	DK Grn	Fs fr.	Sq Fr	Mod cr	% Ser zones	MoS_2	Rock	Comments
1287-1303	v/g	10	—	Vor =?	white parcel. pl pink		e2	c	c	20	~~perhaps~~ —	5+ DB ?		qtz-cpy ± Kspar altn halo
1320-1338	v/g	10	—	✓	—	l2	——	u	u	20	perhaps	?		see below
1359-1377	v/g	5	—	✓	white parcel. altn — 1			u	u	NIL	"	?5+ D7		small bonanza qtz-cpy veins ser-chl-con-cpy #2
	1400	—	EOH											

71 The rock has a chilled-looking matrix, A qtz "eyes" zoned plag phenos + It almost looks like Bsda. There are definetely fener + coarser zones + perhaps some stocna May simply be mixed 5+ D13 Mafic → chl and/or ser

72 Gouge 1320 - 1330 @ 30° to core; local pink altn — ~~hematite~~ Kspar local bonanza cpy-qtz veins; qtz-cpy-bn in sericite halos

73 chlorite coated joints abundant Chalco + phl. cementing a thin tectonic brx zone Pebbly throughout the brx

74 Gouge - sericitic matrix - 30° to core - 4 - 1' zones in the brx mafic → ser + chl. CR is 5 I think.

75 Mafic → chl

76 Contains considerable D7

77 1393 to 1400 Mostly 5 v/g

1370 qtz-bn veinlets rel-fresh plag mafic → chl.

HIGHLAND VALLEY DRILL LOG SHEET

Hole L 41 Date Aug 11/72
Aug 14/72
Sunny

Property LORNEX W. J. McMillan

B.C. Dept. of Mines and Petroleum Resources

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. ∨ Bn.	Feldspar Alteration: wh	grn	pink	Feld. Fresh	Mm fr.	mafic	Qtz.-Ser. Zones	MoS_2	Rock Type	Comments
1 33-51	MIL	10	–	–	–	1 p	–	–	–	chl ∞ frsh	–	✓	5	
3 69-88	v/g	7	–	✓	–	1-2 p	–	–		chl + ep	–	✓	5	
5 116-129	v/g	20	9 fine specs	?	–	2-3 ser. p	–	–		ch + ser	–	✓	6? ppm?	large 5 mm qtz eyes x/s

1 qtz-cp veins 70° to core qtz veins 45, 70 to core
yellow-brown rust on fractures calcite veins

2 green altn to intensity 2 locally + mafic → ser there

3 qtz-ep at 10° qtz with cpy pods at 50°
chl fr 11 to core local bonanza values
calcite veins 70° to core

4 More sheared than 3 otherwise similar stress 30° to
(90-110) core axis on slips @ 05° slickensides 45° to axis
qtz-MoS_2 (on slips ⊥ to core in vein) cpy veins on ser. slip

5 ep on fractures @ 0° fairly closely fractured
qtz-cpy ppy ~~after 113~~ start? (.) between locally
105 & 110' – rock sericitized + sheared
no exact contact not certain
pyrite as small x/s in a qtz vein

6 pretty good 5 again to 140, then when ser.
altn picks up again qtz-eyes appear as
in Box 5 – here it is obviously alt 5 though
ser 2 → 3 after 140

HIGHLAND VALLEY DRILL LOG SHEET

Hole L41 Date Aug 14/72

Property Lornex

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

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. > Bn.	Feldspar Alteration wh	grn	pink	Feld. Fresh	Min ~~Ab~~ Fr	Mafics	Qtz.-Ser. Zones	MoS_2	Rock Type	Comments
7 148-166	Vlg	20	—	?	—	2-3 4158 1 [illegible]	—	—	—	chl or ser	—	✓	5	almost barren
9 185-203	lg-	10	✓	✓	—	1 to 190 2 [illegible]	—	—	—	chl	—	✓	5	
11 221-238	Vlg	10	—	✓	—	2-3	—	—	—	chl ep ser	—	✓	5	Where recognizable
13 257-275	vlg	5	=	✓	—	2p 2[illegible]	—	—	10	ch ser	—	sparse ✓	5	
14	lg	qtz-cpy-MoS2 veins, cpy on fr 90°, qtz-cpy veins 60°									5	to 276 aplite	276-278	then 5b, 280 then aplite to end of box

7. chl, ser slips @ 20° ~~#~~ chl stringers 45°
ep(?) " 40° striae 20° to axis
calcite 0° striae 45° to axis
occasional epidote blebs
MoS_2 on slips ⊥ to core

aplite mildly ser, some bi phenos - poorly mineralized

8 qtz-actinolite vein 60° to core has a smattering of bn, cpy, MoS_2
qtz-ep stringer 40° - barren
almost-fresh 5

9 qtz-MoS_2-cpy - sheared 201 - 203 (RICH)
pyrite-chl slips 0, 50° qtz-ep-och. hem @ ~~40~~ 35°
och. hem on fr.

10 virt. all sheared + intense white altn to 219
qtz-cpy-MoS_2 + qtz-cpy & qtz-ser-cpy veins
Lg+ cpy >> bn

11 some apple green altn - qtz enlarged there
chl slips 0, 20, 40° MoS_2-cpy blebs in apple green alt zone
dissem. in qtz blebs

12 plag green 2, qtz-cal veins 20°, CR 5

1M-572-3322

13 cpy-ser slips 10°
chl slips 0°

L 41 : 290 pink + ser. altn

HIGHLAND VALLEY DRILL LOG SHEET

Hole L41 Date Aug 14/72

Property Lornex

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B.C. Dept. of Mines and Petroleum Resources

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. > Bn.	Feldspar Alteration wh	grn	pink	Feld. Fresh	Mm fr	Mafics	Qtz.-Ser. Zones	MoS_2	Rock Type	Comments
15 372-310	vlg	–	–	1 ?	–	1-2 p	–	–	–	–	–	–	D7 5	aplite to 309
17 328-346	vlg	–	–	?	–	1-2 p	–	–	–	chl ser	–	–	5	
19 363-381	vlg	–	–	–	–	1-2 p	–	–	–	ser	–	–	D7	gtz, plag phenos locally
21 397-415	vlg	–	–	✓	–	1-2 p	–	–	5	fresh or ser	–	–	D7	gtz - some bi phenos
23 434-452	lg-	5	–	✓	–	1 l	–	✓	2	fresh or chl	–	✓	5	

15 ser slips 70° chl hem vein 30°
two specs of cpy w chl hem on a slip at 0°

16 5 – general green altn 1-2, mafic → chl gtz vein 10' apart @ 30° to core
vlg

17 chl slips 0°

18 356-357 gtz - eye aplite CR 5 green altn 2 vlg

19 1st 8' of core gone aplite ∧ much like Box ∧ 15 type

20 Note that only the plag phenos are obviously silicified gtz eyes now prominant, one zone is large bi phenos almost Bsda-ish locally, most mafic → ser fract with cpy blebs has bleached halo 50°

L41 - 392
pink + grn altn

21 Cpy - iron oxide 60, 80 to core
ser slips 0°

22 gtz - cpy - MoS_2 @ 70° at 415.5' then there is a silicified zone which is probably 5 then definite 5 by 432'

1M-572-3322

23 cpy ± MoS_2 - gtz 45° chl - cpy, ser - chl hem - cpy slips 45, 50°, 75°

HIGHLAND VALLEY DRILL LOG SHEET

Hole L41 Date Aug 14/72

Property Lornex

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

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. > Bn.	Feldspar Alteration: wh	grn	pink	Feld. Fresh	mag fr	mafic	Qtz.-Ser. Zones	MoS_2	Rock Type	Comments
25 471-492	lg-	5	trace ✓	✓	-	2-3 p	-	-	10	ser chl	10	✓	5	rel. massive
27 514-532	vlg	10	-	✓	-	2-3 p	-	-	?	chl ser	5?	✓	5?	sheared mostly
29 551-568	lg-	-	-	✓	-	2-3 p	-	-	-	ser	10?	✓	?	less so after 560
31 586-605	vlg	-	✓	✓	-	1-2 ℓ	-	✓	5	fresh → chl	-	✓	5	nearly massive
33 624-642	lg	15	✓	✓	-	ℓ 1-2	-	✓	.8	"	2	✓	5	"

24 a bit more green altn (1→2) one rich qtz-MoS_2 vein ~~460~~ 469 - 471

25 qtz - MoS_2 - cpy @ high ∠
qtz - ser - cpy chl - cpy - pyrite slip 0°
a bit of shearing

26 like 25

27 some second. bi on slips 30°
qtz - ser - cpy60°; cpy - MoS_2 60° strike 40° to core axis

28 like 27

29 Qtz ±cpy ∧ MoS_2 at 10° , qtz - cpy ± ser @ 10°, 30°
dk grn brown chl (?) slips 0→10° after 560' L41:566 yell grn altn

30 shearing slight altn down to green 1 CR 5
cpy > vlg MoS_2 ✓ mafic → chl no qtz, qtz - ser

31 chl - cpy ±py ∧ 30° qtz - chl slips 10° fractures,

32 qtz - chl - cpy 45° ∧ more massive + lower grade than 31

33 ~~qtz~~ - ser - cpy + chl - cpy slips 50°
qtz - ser - cpy ± MoS_2 ∧ 70° 45°
± pyrite

1M-572-3322

HIGHLAND VALLEY DRILL LOG SHEET

Hole L 41 Date Aug 14 / 72

Property Lornex

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

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. > Bn.	Feldspar Alteration wh	Feldspar Alteration grn	Feldspar Alteration pink	Feld. Fresh	min Fr.	mafics	Qtz.-Ser. Zones	MoS_2	Rock Type	Comments
35 659-677	lg-	—	—	✓	—	—	1-2 ½ box	✓	.6	chl fresh	—	—	5	rel massive
37 695-714-	lg-	—	✓	✓	—	l 2	l 1-2	✓	.5	chl	3	—	5	some qtz eyes
39 732-751-	lg-	5	—	✓	—	l 2	—	✓	.8	fresh chl ser	4	✓	5	locally sheared
41 769-787-	lg-	—	—	✓	l 2	l 1-2	l 1-2	—	.6	chl	7	✓	5	slightly bken up
43 803-821-	vlg	—	—	✓	—	p 2-3	l 2	—	?	chl	5?	✓	5?	Thoroughly sheared & altered 20° to core?

34 642-661 MoS_2 ✓ cpy > bn qtz ser N/L
local shearing rel. fresh lg—

668-

35 chl-ep slips 10° chl-bi(?)-cpy 10° chl. fr.
ser-cpy slip 50° chl-cpy 50°
qtz-ep 45° (one vein) calcite - high ∡ - one seen

36 a few qtz veins, minl. fr .5, almost fresh

37 cpy-ser 60° pyrite-chl-ser-cpy 70°, 60°
minlzd fr. in swarms 1-2" or less apart in the swarms
calcite 0° qtz-ser-cpy 60-70°

38 some cpy after mafic otherwise like 37

39 cpy-MoS_2-qtz high ∡
cpy-chl slips 10, 45

40 like 39 but local pink altn

41 ser slips 0° qtz-MoS_2-cpy-chl-ep 50°
qtz-ser-cpy-och hem 50°, 35°
pink zones are altn around qtz-ep-chl veins 0→30°

42 fairly intensely sheared & altered locally, elsewhere like 41

43 Shear 10° to axis qtz-cpy-bn-och hem-ser 60°
chl-ser-cpy 35°

HIGHLAND VALLEY DRILL LOG SHEET

Hole L41 Date Aug 14/72

Property Lornex

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Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. > Bn.	Feldspar Alteration: wh	grn	pink	Feld. Fresh	Min fr.	rock pts	Qtz.-Ser. Zones	MoS_2	Rock Type	Comments
~~47~~ 824 – 840 ~~847~~	lg-	10	–	✓	–	p1 p2	2 2	–	1	chl fresh	–	✓	5	locally sheared
47 877 – 896	lg-	10	–	✓	–	p2 after 888		✓ to 888	.6	chl fresh zon.	4	✓	5	some bn now
49 914 – 932	lg	?	–	✓	–	2	2	–	.7	fresh chl	10 ~	✓✓	5	
51 957 – 970	lg	10	–	✓	–	p 1	1 1	–	.5	chl	10	–	5	some bn as in 47
53 987 – 1007	vlg	20	–	✓	–	2 1	1 1	✓	.8	fresh chl	10	–	5	

~~47~~ slips 60, ~~80~~°, 0° cpy - chl - ser ± qtz ± bn cpy after mafic
calcite 10° MoS_2 - cpy - ser 60°

~~46~~ 45 sim. to 44 but less shearing

46 rel fresh, massive apple green loc. 2 mod. fr. .5
cpy > bn MoS_2 ✓ pyrite x qtz veins 10
partic. fresh after 865 + apparently better mineral'd
(may only be hidden in alt. zone thr.)

47 Qtz - cpy - MoS_2 @ 45° qtz - ser - cpy 20°
cpy - chl - ser 45° 60° (slips)
qtz flaky ser - bn - vein with pinkish halo 55°

48 rel massive; local fresh, gen. green 1-2
mod'd fr. 1' vlg

49 MoS_2 - qtz - cpy vein 915 - 919 - sheared - 50°
calcite 20°; late ser. slips 10° to core?
qtz - cpy with ser ~~stringers~~ 45° + pink alt. halos
chl - ser - cpy 20°, 60°, 45°

1M-572-3322 50 sl. fresher than 49, otherwise similar
51 chl ± ser - cpy slip ser - chl - cpy 55° qtz - cpy - bn - ser veins
52 sim. to 51 - 53 { qtz - ser - cpy 45° cal - 0°

HIGHLAND VALLEY DRILL LOG SHEET

Hole L41 Date Aug 14/72

Property Lornex

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

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. > Bn.	Feldspar Alteration wh	grn	pink	Feld. Fresh	Min Fr	Mafics	Qtz.-Ser. Zones	MoS_2	Rock Type	Comments
56 1059 - 1076	vlg	10	—	✓ bn =	l2	—	l2	—	.8	chl	—	—	5	mildly sheared
58 1076 - 1094	vlg	5	—	✓	—	l3	p3	—	1	ser chl	—	—	5	some bn
61 1130 - 1146	vlg	10	—	✓	—	p2 l3	p3	—	1 ?	ser chl	20	✓	5?	sheared to 1139
64 1183 - 1201														
67 1238 - 1256														

54 1007 - 1025
Sheared 50% green altn level 2, lots of chl slips

55 75% sheared MoS_2 ✓
cal seams green altn 2-3

56 ser-cpy-bn 50° 10% sheared chl-cpy slips
pink calcite 25° qtz-cpy-MoS_2 45° 0, 50°
sericite slips 20°

57 40% sheared mainly pink 2 some qtz stringers

58 qtz-cpy-bn veins (90°) w. ser selvedges + pink halos 90°
qtz-ser-cpy-bn 50°, 30°
cal - 0° ep? 45°
qtz-cpy vein has ep along borders

59 same as 58, slight shearing

60 green altn (2-3) to 1126 then pink altn to ~~[illegible]~~ 1134' (2-3)
CR5 mafic → chl
The pink zone has sericite-MoS_2 "pockets" CR ?

61 1134-1139 green intense qtz-cpy-bn-high ∡
mal + cuo+ on fractures
one vuggy ser-qtz-cpy-bn zone

HIGHLAND VALLEY DRILL LOG SHEET

Hole L41 Date Aug 14/72

Property LØRNEX

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

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. > Bn.	Feldspar Alteration wh	gn	pink	Feld. Fresh	Min Fr	Mafic	Qtz.-Ser. Zones	MoS_2	Rock Type	Comments
64 1183 - 1201	lg+	2	-	= or X	-	pl-2 l3	-	-	.7	chl fresh ser	5	✓	5	
67 1238 - 1256	lg-	—	—	✓ ?	l1	-	-	✓	.6	"	10	✓	5	
70 1294 - 1311	lg-	7	—	✓	—	p1 l2	-	-	.5	chl ser	10	—	5	
73 1347 - 1365														
75 1382 - 1400														

62 MoS_2 ✓ qtz - cpy - bn 20°
green altn 1-2 to 1158 then 3 cpy > Bn

63 mod - intense green altn throughout ; CR5

64 Rich MoS_2 - cpy - qtz veins - high x
Qtz - Bn - Cpy vein ser selvedges, 30°
Qtz - ser - bn - cpy zones calcite 0°
cpy - bn on fract, 50°

L41 : 1181
yell-grn altn
mafic → chl

65 Intense green altn to 1205 then mod to wk to 1215 then almost fresh; cpy - ser slips, qtz - cpy - bn veins
qtz - cpy - MoS_2 vein (lg-)

66 Rock is 5 — rel. fresh throughout, sericite slips + minlzd fractures noted

67 qtz - ser - cpy ~~slips~~ veins 40°
±bn - cpy - ser blebs on fractures 0°, 50°
chl - cpy - MoS_2 " " 10°
Shear 45° to core axis on ser slip

68 slightly more sheared & altered

69 same as 67 CPY > BN

70 ser slips 0° qtz - cpy - bn vein
qtz - cpy vein w. ser halo 40°
minlzd fractures 30, 70

L41 : 1295
sericite altn

1M-572-3322

HIGHLAND VALLEY DRILL LOG SHEET

Hole L41 Date Aug 14/72

Property Lornex

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

Box Footage	Grade	Qtz. Veins	Pyr.	Cpy. > Bn.	Feldspar Alteration wh	grn	pink	Feld. Fresh	mm fr	mafic	Qtz.-Ser. Zones	MoS_2	Rock Type	Comments
73 1347 - 1365	lg-	2	-	✓ Bn =	-	P 2-3	-	-	2	chl	7	✓	5	
75 1382 - 1400	lg+	5	✓	✓	-	-	P 2	-	3	chl	4	✓✓	5?	
				1400 (EOH)										

71 1311 - 1329 qtz veins 50° w. cpy, MoS_2
slight green altn of 5 throughout

72 1330 - 1335 fairly strongly altered (green 2-3) & sheared
Bn = cpy MoS_2 ✓ otherwise green 1→2 p.

73 chl - ser - cpy on fr. 0° shear 50° to axis on ser. slip at 0°
Bn - cpy - MoS_2 - qtz 20°
qtz - ser - cpy altn zones 30° (?) } local shear zones

74 1st half mod green altn, then low → mod pink and green

75 local qtz - ser - bn - cpy zones @ 45°
qtz - MoS_2 - cpy veins with fracts filled by cpy + some py.

almost looks like Valley Copper ore here except for rich cpy - bn - MoS_2 qtz-veins

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