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093C/09
Cariboo m.D.

Aug. 10/92

Sunday

- Locating drill collar sites:

Hole #1: - Tufa zone

- near the bubbling trenches

#2: - Bucket zone. Chert, anomaly

- collected to of the road.

#3: - w. Lake zone

#4: - w. Lake zone (just S. of #3)

#5: - S. zone: - on road just after (w. of)
the swamp. (#7)

#6: - S. zone: - w. side of swamp, N. of the
road.

- Work proposal =

Prop: Stratigraphy + Controls on mineralization

1) - geol. mapping (esp. old Smiley map)

2) - correlation of mapped units to drill core +
trenches

3) - geochemical fingerprinting of units.

4) - Airphoto interp.

1) geological mapping: - 1:2500 scale 5 days
- thin section interp.

2) drill core overview: - layout holes 5 days
- section construction

3) airphoto interp.: - overlays 2 days

Aug. 11/92

Sunny

SBCL 92-1 - Float Qtz breccia. (angular), yellow weathered
(Old Smoky) - 70% white/clear, often drusy
(1365m) Qtz (v.f.g.) supporting in alt'l.
angular clasts of wallrock (30%) with
local amygdules (prob. andesite)
- sample 1 (geochem)

SB92-2 - Float Quartz vein
(1390m) - med. grained, white Qtz; sugary
textured; occasionally blebbed (replacing
calcite?); minor drusy lining of vugs.

SBCL 92-3: - Feldspar Xtal Tuff (FXT)
(1480m)
- grey weathering, buff on the
fresh surface
- highly oxidized
- 10% fine, fibrous plagi. phen's
replaced by clay
- minor pyrite cubes (1-2%)

SBCL 92-4: - Ash Tuff (Z)
(1490m)
- buff/yellow on the fresh surf.
with pinkish bands < 1mm wide,
w. 1 per cm.
- very soft
- banding oriented @ 210/60W
- sample #2 (HS)

SBCL 92-5: - Feldspar Xtal Tuff
(1495m)
- creamy weathering greenish/gray/buff
on the fresh surf.
- 15% med. grained white plagi. phen's
in an opalinite groundmass
- sample #3 (HS)

- SOCL 92-6: - Vitreous xtal tuff
- Creamy light grey weathering, buff on fresh surf.
 - 5% acicular glass shards (?) oriented // to each other
 - 5% fine, lamellar plag. phenos.

- SOCL 92-7: - Buff weathering, buff on fresh surface
(1515 m)
- i-argillized andesite?
 - very fine grained, no phenos.
 - cut by white qtz str. up to 8mm wide, ~1 per 10-20cms
 - sample #4 (HS)
- (might be float)

- SOCL 92-8: - Buff weathering, buff on fresh surf.
(1515 m)
- soft, chalky textured, aphanitic, minor limonite
 - weakly argillized ash tuff (?) andesite (?)
 - sample #5 (HS)
 - occasional fine laminations, (possibly the same lithology as SOCL 92-4)

- SOCL 92-9: - Rusty weathering, banded buff/yellow
(1520 m) ash tuff (?)
- bedding @ 220/73W

- SOCL 92-10: - Rusty weathering amygdaloidal andesite
(1510 m)
- up to 10% rounded weathered flattened, arr. plates to diam in dia.
 - filled by qtz + limonite + some pyrite
 - groundmass is moderately soft, light green + aphanitic
 - sample #6 (HS)

- SOCL 92-11: - amyg. and. (?)
(1520 m)
- intensely weathered
 - drill met. green with spherical voids up to 2mm dia. occasionally filled with clay.
 - uncommon coarse plag (?) phenos replaced by clay.
 - sample #7 (HS)
 - locally intensely argillized w/ usgs.

50CL92-12: Feldspar biotite xtal tuff. (?)
(1525m.)

- rusty brown weathering, pale green on the fresh surface with 10% fine plag. (?) phenos (usually white, but often limonite) + 2% fine biotite phenos.
- sample # 8 (HS)

50CL92-13: Finely laminated Ash tuff / Rhyolite
(1525m.)

- pink + yellow bands 1-8mm wide
- very soft (may be argillized?)
- sample # 9 (HS)

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Sunny

20CLH-14: Amygdaloidal Andesite
(1435m.)

- Dull grey/green weathering, dull grey/green, fine grained

20CLH-14 (cont.)

- with 2-5% amygdules round or ovoid up to 1cm in dia. filled by calcite + prehnite(?) + quartz.
- no visible phenocrysts.

20CLH-15: Rhyolite
(1475m.)

- med. grey weathering, pale green/grey
- aphanitic
- weak layering @ 222/42E
- sometimes bxd. with angular clasts 3-12mm in dia. in a darker aphanitic matrix
- < 0.5% very fine (subradial) porphy.

20CLH-16: Quartz feldspar xtal tuff (?)
(1475m.)

- orange/buff weathering, orange/buff porphyritic
- up to 4% round qtz phenos (dark grey/clear) up to 3mm in dia.
- with lesser fine, brown plag. phenos.

20CLH-17: Rhyolite (?)
(1475m.)

- Grey/brown weathering, pale grey
- finely banded @ 007/03E
- locally fragmental

2BCLH-18: Intensely altered andesite (?)

(1485m)

- Dark grey + rusty weathering, mod. to intensely argillitic + silica altn.
- up to 5% round Qtz "eyes" (amygdulites?) in an aphanitic groundmass
- < 0.5% pyrite as fine drusems.
- common Qtz stringers + bx's.

2BCLH-19: Flow banded Rhyolite (?)

(1560m)

- Dark grey weathering, pale green/grey with 10% white, mod. grained play. phenos in an aphanitic massive matrix.
- Flow banding is noticeable only on the weathered surface.

2BCLH-20: Feldspar Biotite Xtal tuff (?)

(1565m)

- Dark grey weathering, grey porphyritic
- up to 15% pink to white play. phenos (up to 3 mm in dia.)

2BCLH-20 (cont.):

- with 1-2% fine biotite phenos.
- all phenos are randomly oriented.
- very bluish aft on the top of old tuff.

Aug. 13/92

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2BCLH-21: Dark grey, bluish weathering andesite.

(1480m) (?)

- Dark green/grey
- 0.5% after calcite amygdulites
- 0.5% dark green chl (?) specks
- 20.5mm in dia.
- K.P.'s dating sample.

2BCLH-22:

(1490m)

- moderately Arg. And.
- Dark grey + rusty weathering
- bluish on the fresh surf.
- mod. Arg. altn.
- 3-10% amygdulites (often elongate)
- maybe the top of a flow (above 2BCLH-21)

20CL-23: Amygduloides Andesite

- med. argillie
- right beside contact w FAXT
- vesicles (amygdulites) elongate towards 064° .

20CLH-24: massive to finely laminated Rhyolite

- med. grey, blocky weathering, light grey on fresh surf.
- chalky textured, moderately soft
- aphanitic
- occasional vugs filled with brown calcite + chlorite.

20CLH-25 - mass. to finely laminated Rhyolite

- Dark brown/grey weathering, light green/grey on fresh surf.
- chalky textured + aphanitic
- laminations (+ accompanying joints) @ $101/84 S$

20CLH-26: Feldspar Rhyolite

- med. grey weathering, light grey/green on the fresh surf.
- 10% med. grained white plagioclase in an andesitic matrix.

20CLH-27: Intensely finely lam. rhyolite

- med. grey weathering
- light pink + brown bands on the fresh surface 4mm - 4mm wide.
- lam. oriented @ $104/90$
- 40-50% fine disson. pyrite cbs.

Aug. 14/92

Sunday

- collected k-Ar sample w k-A @ 20CLH-21 in the Am.

20CLG-28: FAXT

- weak bedding/jointing @ $222/42 E$

- moderately argillized

20CLG-29: QFXT

- moderately argillie altered
- 3% coarse gr. eyes
- 3% med. grained, weathered plagioclase in an argillie matrix

20CLG-30: QFXT

- mod. argillie altn.

20CLG-31: Bedded QFXT

- locally warped + folded bedding, often @ 275/615 + 266/745
- bedding of 1-5 cm. layers is very distinct.

20CLH-32: Early lam. rhyolite

- Buff + pink weathering, buff + pink laminations on the fresh surf. 1-10 per cm.
- laminations (bedding) @ 128/81w.
- often contains chlorite (?) specks
↳ lam. matrix (up to 5%).

20CLH-33: F-Rhy breccia

- Buff weathering, mass. + finely lam. rhy (?) frags. (angular) in a pinkish matrix (containing white fsp + phenocr.).
- clasts are 0.3-3.0 cm. in dia. + are supported by the matrix.

20CL-34: F-Rhy

- 15% white plagioclase phenocr. in a pale green matrix (aphanitic)

20CLH-35: FXT

- 5-10% laminated plagioclase in a fine matrix with a sandy texture.
- intensely weathered +/- altered

20CLG-36: Hydrothermal Bx

- 30-40% pale green / buff angular frags. (rhy?) in a pink / buff siliceous matrix
- resistive weathering
- sharp w. contact @ 180/84E maybe a fault.

Aug. 15/92

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- 2BCLG-37: - siliceous ex. (Gore zone)
- 10-15% pale green rhy
 - frags. in a buff or pink siliceous + argillitic matrix.
 - common limonitic & drusy qtz vugs
 - white qtz < 1cm. wide
 - X-cut everything (~ 1 per 100)

- 2BCLG-38: - FQXT
- mod. qtz bx. with local areas of 30% qtz supporting angular frags.
 - common micro qtz veinlets < 1mm wide, ~ 1-2 cm. long + 1 per 3cm²

- 2BCLG-39: Qtz vein ex.
- 2% v-att'd. wall rock clasts up to 3cm. in dia. in a coarse, bedded, buff matrix of qtz.
 - very vuggy

- 2BCLH-40: Feldspar physis (?) Rhyolite (?)
- tan/brown weathering, pale green on fresh surf.
 - 2-5% pale pink plag. (?) ghosts up to 5mm in dia. in an aphanitic matrix
 - common drusy qtz lined cavities + stringers.

- 2BCLH-41: Rhyolite Breccia
- buff/brown weathering, pale green/buff on the fresh surface.
 - 30% pale green aphanitic, angular rhyolite clasts supporting an aphanitic matrix.

- 2BCLG-42: QFXT
- Blocky, light grey weathering, white/buff on fresh surf.
 - 5-10% white, med. grained plag. phenos.
 - 5% med. to coarse qtz eyes
 - 3-5% limonitic spots 1-4mm in dia.

Aug. 16/92

Sunny

(- tour with P.T. of old smoky + base zone.)

- 2BCLG-43: Qtz breccia:
(S. Zone ck.)
- Fe-oxide coated qtz blades (after calcite)
 - P.T. says its just like west Lk. zone.

Aug. 17/92

Sunny

- 2BCL-44: Amygdaloidal Andesite
- Buff weathering, buff on fresh surface.
 - locally up to 30% elongate vesicles/amygdaloids aligned subvertically.
 - 5-7% bright green fuchsite/sericite dissem. up to 1mm in dia.
 - intense argill. alter., local siliceous matrix breccias.

2BCLH-45: Rhyolite Ex. (autoclastic?)

- (sample of Rhy. Ex.)
- Dark green/brown on the fresh + weathered surf.

2BCLH-45 (cont.):

- 35% Dark green rounded clasts in a light brown/green aphanitic matrix.
- matrix supported, clasts 3-30mm in dia.
- clasts + matrix are cut by randomly oriented white qtzs \leftarrow 1mm wide, 1 per 2cms.
- in contact with a fault, exposed, bleached white finely vesicular (?) tuff (?) to the East.
- contains 5-7% fine, flattened vesicles (?) med with dark green chlorite (?)

2BCLH-46: Amygdaloidal, chl. speckled Andesite

- 1-2% round amygdaloids (qtz filled) in a dark grey/green fine matrix containing up to 10% green chl. spots up to 1mm in dia.

2BCLH-47: massive Ash Tuff (?)

- Rusty and buff weathering, buff/pale green on fresh surf., locally argillaceous white.
- Fine grained, sandy texture, often with a spider-web/net fabric consisting of pale microcrystals in a fine stockwork.

Aug. 18/92

Sunny

Andesite Breccia

SBCL-48: Dark green/brown weathering + on fresh surf.

- Dark green/brown rounded clasts 3-30 cm. in dia. are supported by a light brown matrix composed of much smaller clasts (< 5mm in dia.) + fine to aphanitic material.
- large clasts are platy, phytic with 10-20% fine to med. grained white phen's.
- could be a flow-top breccia.

2BCL-49: FQXT

- weakly foliated and layered @ 198/52W, it has a weak to moderate euhedral fabric (microlite + acicular shards(?) aligned)

2BCLH-50: Mudstone

(Pore cone?)

(Given to K. Purn for dating)

- Beige weathering + on fresh surface
- poorly bedded (no orientational available)
- frequent plant fossils (broadleafs, ferns)
- interformational sediment
- possible pore cone (?)

2BCL-51: Laminated Feldspar xtal tuff

- Rusty weathering, white/pale grey on the fresh surface.
- finely laminated with alternating siliceous + argillaceous layers 1-2 mm thick.
- 80% med. grained feldspar phen's
- rare lithic frags. up to 5mm in dia.

2BCL-52: Rhyolite tuff Ex.

- Rusty weathering, buff/white/light grey on fresh surface.
- 20-60% lighter coloured subangular rhyolite (often laminated) clasts supported (+ locally supporting) by a darker grey/pinkish matrix.
- clasts usually 1-20 cm in dia. but can be up to 30 cm's.
- occasional erratic clasts of dark green material (< 1% of all clasts).
- clasts are commonly feldspar lam. tuff. (2BCL-51).

Aug. 19/92 :

Sunny

2BCL-53: Qtz Vn. (Pond zone)

- Rusty weathering, resistant @ V 3m. wide forms a ridge above a pond.
- oriented 030/90
 - composed of buff coloured fine

2BCL-53 (cont.):

- to very fine grained Qtz containing well rock frags. with abundant amygdules (?).
- no visible sulphides.
 - common vugs lined w/ drusy Qtz.

2BCL-54: i-Altid. Lam. Feldspar Rhy.

- very rusty weathering, white/light grey on fresh surf.
- intense argillite +/- siliceous alteration
- gross plag. phenos
- thin beds // to laminations ~ 1cm thick oriented @ 086/32 N
- common Qtz veins 2-15 cm wide @ 020/72 E.

Aug 20/92

- N. zone mapping

Aug 21/92

- plotting

Aug. 22/92 - Tour w/ K.D., J.T., + D.H.

Aug. 23/92 -

- Greenwood next
- out on Thursday
- check access @ Greenwood (Tan)

Core in the P.M.

Aug. 24/92 core

Aug. 25/92 core

Aug. 26/92 Core in the P.M.

