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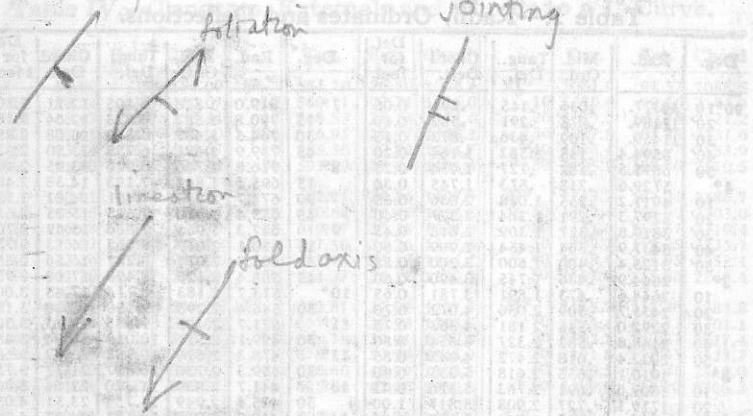
B. McMechan  
1973

Highland  
Valley  
Geochem.

bedding

foliation

jointing



limestone

fold axis

Station	Altitude	Distance	Direction	Remarks
1000	1000	1000	1000	1000
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1100	1100	1100	1100	1100

B. McMECHAN

MAY - JUNE 1973

MAY 23, 1973

BM- 116 - 1

3750'

jointing

strike 15°  
300°

dip 70° W  
70° N

coarse

Hybrid,

B > H

minor pyrite.

much iron stain

interstitial quartz

BM - 116 - 2

3650'

jointing

strike 310°  
5°

dip 68° N

90° (vertical)

coarse

Hybrid

B > H

BM- 116 - 3

3200'

strike

jointing 90° chiefly

dip 65° S

fracturing 325°  
30°

90°  
75°

coarse  
Hybrid

minor sericite, epidote & chlorite alteration  
along fractures

BM-116-4

2700'

	strike	dip
jointing	75°	80° S
fracture	160°	65° W

coarse  
Hybrid lots of chlorite alteration

BM-116-5

~~3650'~~

	strike	dip
jointing	270°	90°
fracture	240°	75° N
	155°	75° W

fine grained Hybrid, not much alteration  
H > B

24/5/73

BM-116-6

-3500'

strike	dip
275°	67° S
355°	78° E

Hy

B &gt; H

3

BM-116-7

3350'

strike

dip

fractures 255°

75° S

210°

65° E

coarse hybrid  
minor alteration

BM-116-8

3000'

- cliff overlooking Coldstream Creek 'gorge'
- very fractured rock, highly weathered
- lots of iron alteration (red staining)

fractures

strike

dip

215°

75° E

180°

75° E

90°

90° (slightly south)

120°

90°

BM-11c-1

2275'

coarse

Hybrid to north

H &gt; B

pink

to south

jointing

340°

vertical

fracture

280°

vertical

BM- 11c - 2 1150'

course hybrid, grading into v. fine grained  
 epidote alteration, calcite veins  
 chloritization, very fractured  
 margin of batholith??

fractures	230°	80°S
	280°	65°N
	155°	vertical

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25/5/73.

BM- 11b - 9 4900'

Guichon + Spatsum? H &gt; B

jointing	5°	60°W
	265°	60°N

negligible alteration

BM- 11b - 10 4750'

chataway H &gt; B

fracture	190°	dip 55° E
	140°	65°W

BM- 11b - 11 4850'

chataway H &gt; B

jointing	10°	80°E
fracture	70°	vertical (sl. S)
	130°	70°E

5

✓ BM-69-1 EL4800'

DDH - 1

0-181'                      181'-296'

296'-483'                      483'-600'

Bethlehem H > B

BM-116-12                      4450'  
NE end of pond.

guidon

	strike	dip
fracture	290°	84°S
	345°	vertical



BM-11a-1

EL 4850'

volcanic

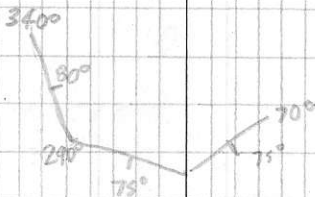
very fractured.  
little alteration

BM-11a-2

EL. 5700'

volcanic

- some development of columnar jointing



7

BM - 11a - 3

EL. 5000'

volcanic  
possible outcrop - rubble??

BM - 11a - 4

EL. 4150'

Cinder Hill

f. gneiss volcanic }  
and some cinder } volc. breccia  
agglomerate?

very fractured

BM-11a-5

EL

4600'

8

guidon-Hybrid

fracture

185°

80°W

90°

70°N

27/5/73

BM-11b-13

EL

4900'

Sst.

fractures

0°

50°W

little alteration

BM-116-14

EL 5075'

Hybrid

fracture

15°

vertical

105°

65° S

BM-116-15

EL. 5000'

Hybrid

fracture

140°

75° NE

230°

70° S

BM-116-16

EL. 5100'

10

Hybrid.

BM-116-17

EL. 5200'

Hybrid

bedding

230°

20° NW

fracture

150°

80° SW

11

285/73

BM-10d-1

EL 5650'

Base Hill

volcanic

fracture

245°

dip 70° NW

BM-10d-2

EL 5450'

Gurdon

fracture

210°

70°W

310°

vertical.

fault gully

BM - 11a - 6 EL. 6150' <sup>12</sup>

E. side South Forge Mtn.

- volcanic

fracture st.  $250^{\circ}$  dip  $70^{\circ}$  S

BM - 10d-3

EL 5050'

Guichon

in gully

fracture -  $150^{\circ}$

$75^{\circ}$  W

$235^{\circ}$

$75^{\circ}$  NW.

BM-11a-7

EL. 4800'

Kamloops volcanics

f. grained greyish groundmass  
with small crystals of hornblende,  
biotite, qtz, feldspar

very fractured  
rhyolite porphyry

BM-11b-10

EL. 3750'

Hybrid (qtz diorite)  
slightly foliated

fractures

50°

70°E

285°

80°S



14

29/5/73

BM-6g-2

EL. 5100'

(Chataway)

Skeena?

fractures	190°	80°W
	280°	60°N

BM-6h-1

EL. 5000'

Bethlehem

B>H grading into H>B  
(blocky mafics) (hornblende 'needles')

fractures	310°	70° NE
	20°	vertical (sl. E)

BM-6h-2

0.3 mile E of Empire.

EL. 5300'

Bethsaida.

50°	70° NW
5°	40° W
40°	75° S

minor malachite in trenches

BM - 6g-3.

EL. 5025'

Hybrid medium grained

some epidote alteration + minor cpy

fractures (str.) 150° (dip) vertical

200°

vertical (sl. W)

260°

75° N

BM - 6g-4

EL. 5200'

Hybrid fine grained

fractures

110°

70° N

180°

50° W

225°

vertical

30/5/73

BG - 6g-5

EL. 5250'

Chataway

Hornblende +  
semi-porphyratic.

chiefly

some epidote + chlorite alteration  
minor pyrite

fractures

270°

75° N

0°

60° E

BM-6g-6

EL. 5000'

Hybrid.

minor repetitive alteration

fractures

260°

vertical

325°

vertical

BM-6g-7

EL. 5050'

Hybrid

no alteration

fractures

150°

65°E

240°

75°N

BM-6g-8

EL. 5150'

Hybrid. (coarse to medium grained)

fractures

140°

85°NE

20°

65°E

BM-69-9

EL. 5250'

guichon

minor epidote alteration

fractures

325°

50° NE

295°

70° N

BM-69-10

EL. 4900'

olag. porphyry??

? Hybrid?

sample from trench

mafic rich-

chilled??

quite a bit of

alteration (reddish brown)

very fractured.

BM-69-11

EL. 4875'

Hybrid

fractures

310°

75° N

35°

vertical

18

31/5/73

EL. 5400'

BM-6g-12

Hybrid v. fine grained - medium grained

fractures

55°

145°

vertical (sl NW)

55° NE

BM-6g-13

EL. 5000'

Coarse gneiss  
with some chloritization

fractures

280°

5°

80° N

75° W

BM-6g-14

EL. 4800'

fractures

125°

85°

25°

75° S

vertical

50° NE

BM-6g-15 EL. 4775'

volcanic (dk. green) - tuff  
plagioclase

fractures 115° 70° N

'bedding' 350° 20° W

BM-6g-16 EL. 4750'

(Kamloops Volcanics)

vesicular basalt

BM-6g-17 EL. 4800'

Kamloops volcanics

vesicular basalt

BM-6g-18 EL. 4900'

Kamloops volcanic

vesicular basalt

fracture 180° 55° W

20

BM-Gg-19

EL. 4875'

Kamloops volcanic

vesicular basalt with zeolite. Filling vesicles

fractures: 330°  
235°vertical  
75° NW

BM-Gg-20

EL. 4750'

Kamloops volcanic  
vesicular basalt.

fractures 215°

vertical.

BM-Gg-21

EL. 3900'

Kamloops volcanic v. small o/c  
vesicular basalt

BM-Gg-22

EL.

grey agglomerate  
some weathering (reddish yellow stain).JUNE 1 - truck servicing, shopping  
shipping samples.

21 JUNE 2 1953

BM-11g-1

EL. 5250'

meta volcanic.

"sugary texture"

quite fractured

fractures strike 190° 65° W

80° 35° N

30° vertical (sl. SE)

BM-11g-2

EL. 5150'

meta volcanic

"sugary texture"

fractures 170° 35° E

150° vertical (sl. W).

260° 80° N

BM-11g-3

EL. 6000'

Kamloops volcanic

grey vesicular basalt

"layering" 290° 70° N

BM-11g-4

EL. 6000'

red. vesicular basalt.

fractures 305° 80° NE

230° vertical



BM-11g-5

EL. 5800'

black volcanic - basalt.

highly fractured.

120°

80° N

80°

60° S

155°

75° N

3/6/73

BM-11g-6

EL. 4800'

mafic gneiss  
little alteration

fractures

100°

80° S

50°

80° NW

BM-11g-7

EL. 5200'

black volcanic (basalt)

quite fractured.

fractures

100°

vertical.

325°

vertical.

5°

vertical

BM-11g-8

EL. 4500'

Hybrid

fractures

105°

60° S

150°

90° E

BM-11g-9

EL. 3500'

black volcanic (basalt?)

o/c? + rubble.

BM-11g-10

EL. 2650

Black shales

very fissile

BM-11g-11

EL. 2400'

very mafic-rich Hybrid

4/6/73

BM-11g-12

EL. 3850'

Hybrid.

fractures.

20°

65° E

355°

30° W

145°

vertical

90°

55° S

BM-11g-13

EL. 4100'

Hybrid fine grained  
poorly developed mafics  
small well rounded inclusions (approx 2cm across)

fractures: 145°  
65°

vertical  
90° S

BM-11g-14

EL. 2900'

Hybrid.

fractures

215°  
300°  
330°

65° SE  
85° S  
45° NE

BM-11f-1

EL. 2850

shale, sst. & <sup>pebble</sup> cong in o/c exposure

sample mixed shale, sst.

bedding: 110° 55° S

black shale + lithic arenite  
minor calcite veining

BM-11f-2

EL. 2700'

volcanic - black basalt  
slightly vesicular

5/6/73

BM-11f-3

EL. 1800'

sst. - lithic arenite

BM-11f-4

EL. 1850'

mafic rtd hybrid  
very fine grained

fractures 320° 75° SW  
200° 75° W

BM-11f-5

EL. 1750'

olivine basalt  
(Meta-Nicola)

BM-11f-6

EL. 1200'

basalt with olivine + gtz phenocrysts

BM-11c-3

EL. 900'

(coarse sand)  
+ granules  
lithic wacke  
poorly sorted

BM-11c-4

EL. 1000'

grey limestone, thickly bedded  
pyritic chert beds adjacent  
(micrite)

BM-11c-5

EL. 1000'

dk. grey limestone  
discontinuous calcite bands  
intense folding (small scale)

BM-11c-6

EL. 2650'

Hybrid. very fine grained  
poor development of matrix

27

6/6/73

BM-6a-1

EL. 2600'

Hybrid??  
looks like Chataway but with inclusion

BM-6a-2

EL. 3200'

Hybrid? o/c? + rubble  
minor epidote & chlorite alteration

BM-6a-3

EL. 3300'

medium grained

Guichon

- very fractured

chlorite alteration

qtz vein with chalcopyrite, bornite,  
pyrite, malachite, chrysocolla adjacent  
volcanic dykes crosscutting (minor amount)

BM-6a-4

EL. 3050'

volcanic dykes crosscutting BM-6a-3  
- basalt

BM-6a-5

EL. 4700'

mafic Guichon

330'



minor chlorite &  
limonite alteration  
on fracture surfaces.

BM-6a-6

EL. 4900'

Guichon

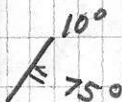
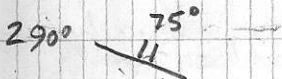
chlorite alteration + epidote veins adjacent  
moderate limonite alteration

BM-6a-7

EL. 5200'

Hybrid/Guichon transitional

biotite well developed  
hornblende poorly developed } B > H.



BM-6a-8

EL. 5000'

Guichon

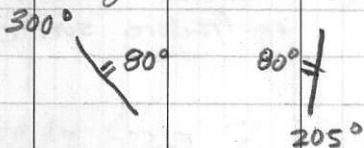
quite fresh

BM-6a-9

EL 5900+

summit of SKWIL KWAKWIL MTN.

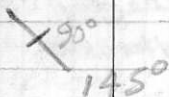
f. grained Guichon



BM-6a-10

EL 4350

dyke rock crosscutting mafic guichon (BM-6a-11)



brownish-black basalt with pink redite filling vesicules

BM-6a-11

EL 4350

mafic guichon

epidote veins + chlorite alteration

adjacent ; crosscut by above dyke at same location



8/6/73

BM-66-1

EL. 1550'

plag porph. basalt (purple)  
very fractured

BM-66-2

EL 1650'

lt. yellow tuff breccia  
pink & white reolites filling amygdala

BM-66-3

EL. 2550'

olivine + plag porph basalt.

BM-66-4

EL. 2850'

tuff

BM-66-5

EL. 2650'

plag. porphyry basalt (purple)

BM-66-6

9/6/73

EL 3350

red sheated tuft  
(not andesite)

BM-66-7

EL 3775

green plagioclase porphyry  
basalt

BM-66-8

EL 2850

brown plog porph basalt

BM-66-9

EL 2625

9a - welded (ash flow) tuft

9b - rhyolite with dk Qtz? bands  
complete gradation from 9a to 9b in o/c

BM-66-10

EL 4250

volcanic breccia with  
calcite? crystals

BM-6b-11

EL. 4350'

tuff + greenplag porphyry

BM-6g-23

EL. 4200'

black layered andesite

BM-6b-12

EL. 4500'

dk. gray plag. porph. basalt

BM-6b-13.

EL. 4800'

green plag. porph. basalt

11/6/73

BM-6a-12

EL. 3050'

green volcanic ——— porph.

BM-6a-13

EL. 3900'

dk. brn volcanic (andesite?) porphyry  
with qtz, hematite + green phenocrysts

BM-6a-14

EL. 4700'

black plag. porph. basalt

BM-6a-15

EL. 4600'

Guichoni

B = H

Qtz - 30%

BM-6a-16

EL. 4700'

Bethsaida

no alteration

BM-6a-17

(to E of BM-6a-16)

EL. 4700'

Leroy??

no alteration

in contact with 6a-16

BM-6a-18

EL. 4850'

Chatabeth

BM-7d-1

EL. 4800'

Gurichon

BM-7d-2

EL. 4900'

Gurichon

12/6/73

BM-3h-1

EL. 2550'

fine grained light coloured arenite

Fe oxide alteration on fracture surfaces  
quite prominent

- Fe oxide disseminated throughout

BM-3h-2

EL. 2900'

fine - coarse grained arenite  
with carbonaceous inclusions  
(lignite in places)

BM-3h-3

EL. 3150'

poorly sorted fine-grained sand - pebble wacke  
with Fe oxide + Mn oxide alteration

BM-3h-4 EL 3450'

same as BM-3h-1

well sorted fine grained light coloured  
arenite with Fe & Mn oxide alteration  
- Fe oxide 'flow layering'

BM-3h-5 EL 4300'

fine grained Hybrid  
little alteration  
minor epidote / K-feldspar veinlets (5mm  
wide)

BM-6a-19 EL 4750'

Guichon medium-coarse grained  
moderate Fe oxide alteration on  
fracture surfaces  
minor chlorite alteration near  
epidote veinlets (1mm wide)

BM-6a-20 EL 4800'

fine grained dk coloured dyke rock  
(intrusive)  
Fe oxide alteration on fracture surfaces  
well developed & abundant jointing

BM-6a-21

EL. 4800'

100' to west of BM-6a-20.

medium grained mafic Guichon

trace of malachite adjacent.

Fe oxide alteration on fracture surfaces.

BM-7d-3

EL. 4600'

medium grained Hybrid.

with chlorite + Fe oxide alteration on fracture surfaces.

K-feldspar veinlets (1cm wide) adjacent.

BM-2e-1

EL. 4600'

fine-medium grained Hybrid

variable composition B > H  $\xi$  H > Bqtz/k-feldspar veins (5cm - 30cm)  
with epidote  $\xi$  malachite adjacent

13/6/73

BM-7d-4

EL. 4800'

Bethlehem - medium grained

Qtz 30%

B &gt; H

minor Fe oxide alteration

BM-7d-5

EL. 4950'

Bethlehem - medium grained

little alteration

BM-3h-6

EL. 4200'

metasedimentary; v. fine grained

amphibolite?

minor magnetite

minor epidote + limonite alteration

BM-2e-2

EL. 4800'

Hybrid - medium grained

moderate development of hornblende xls  
abundant inclusions (10%) 10mm - 30mm acrossmetasediments & plag. porph basalt  
cut by Hybrid dykes adjacent



BM-3h-7

EL. 4300'

metasediment, dk, very fine grained.  
 very fractured.

BM-3h-8

EL. 4350'

very mafic medium-grained Hybrid  
 H>B diorite  
 trace of pyrite

BM-2e-3

EL. 4400'

fine-medium grained Hybrid. diorite

BM-2e-4

EL. 4500'

Nicola? meta volcanic  
 black aphanitic

14/6/73

BM-3h-9

EL. 2500'

plag porph. basalt.  
 plagioclase altered to clay (kaolinite?).

39  
BM-3h-10

EZ 3750'

Rhyolite porphyry.

fine grained phenocrysts of hornblende,  
biotite, K-feldspar, Qtz in light coloured  
aphanitic ground mass.

BM-3h-11

EZ 3550'

andesite with calcite / zeolites  
Fe oxide alteration on surfaces

BM-3h-12

EZ 4000'

dk purple plg-porphyr. basalt.

Mn & Fe oxide alteration on fracture  
surfaces; very fractured.

BM-3h-13

EZ 4000'

medium-grained Hybrid grading into  
very coarse amphibolite (xtals 2cm long)

sample is Hybrid.

epidote & chlorite altered rock adjacent

BM-3h-14

EL. 3000'

purple tuff. with zeolites  
filling amygdals.

BM-3h-15

EL. 3000'

light colored rhyolite porphyry

16/6/73

BM-7c-1

EL. 3500'

medium-grained Guichon  
surface material highly weathered.  
Fe oxide alteration on fracture surfaces.

B	15%	} antedial
H	5%	
Qtz	25%	in matrix
Feld	60	{ K 20% antedial plag. 80% subdial.

BM-7c-2

41

EL. 3400'

fine grained Guichon (Lerry?)

B 5% subhedral - anhedral

H 5-10% - subhedral

Qtz 15-20%

feld 70% { plag. 85%  
K - 15%

(pyroxite + manganese)

much Mn & Fe oxide alteration

two adits with chalcopyrite,  
azurite, malachite, hematite,  
chrysocolla adjacent

BM-7c-3

EL. 3600'

(Lerry?)  
fine-grained Guichon, very fractured  
in all directions

B 5-10%

H 5-10%

Qtz 15-20%

feldsp. 70% { plag 85%  
K - 15%

inclusions (1 cm across) less than 1%.

Qtz, K-feldspar, B, H pegmatite veinlets (1 cm wide)

X-cutting o/c

Fe oxide alteration abundant, trace of malachite  
quite weathered

42

BM-7c-4

EL. 3450'

Leroy? granodiorite

B	5-10%	} anhydrous
H	5-10%	

Qtz 25-30%

Feld. 65%	} plagioclase	80%
		20%

moderate Fe oxide alteration

BM-7c-5

EL. 4100'

Nicola volcanic?

black andesite

abundant Fe oxide on fracture surfaces  
very fractured

BM-7f-1

EL. 4200'

Nicola volcanic?

black andesite

very fractured, moderate Fe oxide  
on fractures.

BM-7f-2

EL. 4250'

Hybrid / Nicola?

intrusive texture, fine grained  
quite mafic.

B 5-10%

H 20-30%

Qtz 10% or less

feld. 60-70% { plagi chiefly

traces of pyrite (disseminated)

Fe oxide on surfaces

BM-7f-3

EL 3350'

v. Fine grained Hybrid

mafic poorly developed (anhedral)

little or no alteration.

BM-7f-4

EL. 3300'

Hybrid / Nicola

(mafic rich - intrusive texture)

trace of (disseminated) pyrite.

17/6/73

BM-7d-6

Chataway

EL. 4650'

B	5-10%	} anhedral to subhedral
H	5-10%	
Qtz	20%	
Feld	70%	} 30% K. 70% plag

adit adjacent with abundant Fe oxide alteration  
 sericite alteration, calcite veins (1cm)  
 malachite & possible chalcocite  
 rock very fractured; fault gorge evident

BM-7e-1

EL. 4750'

Chataway/Gordon  
medium grained

B	5%	} anhedral-subhedral
H	5-10%	
Magnetite	1-2%	
Qtz	20%	} plag 60 Kf - 40
Feld	70%	

abundant Fe oxide alteration on fractures surfaces & within rock,  
 - secondary Qtz?? malachite adjacent

BM-7-2

EL 4900'

Qtz-eye D<sub>2</sub>? dyke

subhedral Biotite 2%

Qtz 25%

Feld 75% { K 40-50  
plag 50-60

Fe oxide alteration abundant  
feldspars near surface often altered to clay

BM-7-7

EL 4800'

Qtz-eye D<sub>2</sub>? dyke

anhedral B 2%

Qtz 25%

Feld 75% { K-40-50  
plag 50-60

minor Fe oxide alteration  
fairly clean rock.



46  
BM-7e-3 - EL 4900'

aplite dyke (D7)  
(very fine grained, pink, very few inclusions)

BM-7e-4 EL 4900'

Skeena

B 2-5%

H 2-5%

Qtz 30%

Feld 70% { 40-50 K  
50-60 plag.

very little weathering or alteration