

1984  
824198

Days Rocks Re-looked at

③ SC claims

		ROCKS DONE	GEOCHEM
JULY	2	✓	✓
	3	✓	✓
	4	✓	✓
geochem #3	5	✓	✓
	7	✓	✓
	8	✓	✓
	9	✓	✓
geochem #4	11	✓	✓
	12	✓	✓
	14	✓	✓
	15	✓	✓
	16	✓	✓
	17	✓	
	18	✓	
	19	✓	
geochem #5	21		
	22		
	23	✓	
	24	✓	
	25	✓	
	29	✓	
	30	✓	
	31	✓	

July 15/84  
Aug 25/84: geochem completed up to July 15/84  
ithp/s

} VLF

Whole-rock geochem starts up to July 18, 1984.

**GRID ROCKS TO EXAMINE**

ROCKS DONE

GEOCHEM

Aug (8)

(9)

(10)

(12)

(14)

(15)

(16)

(19)

(20)

(21)

(22)

- ① Mafic Volcanic
- ② Intermediate Volcanic
- ③ Felsic Volcanic
- ④ Mass. Flow
- ⑤ Pillow, Pill. Breccia
- ⑥ Tuff, Ash TF.
- ⑦ Lap TF - Lap. & Ash TF
- ⑧ Agglom (→ 64 mm)
- ⑨ TF Breccia
- ⑩ Debris Flow (1, 2 or 3 depending on frags).

- ④ Mafic Intrusions
- ⑤ Felsic Intrusions
- ① Diorite.
- ② Gabbro
- ③ Diabase.

- ⑥ Sediments
- ① chert, chert Ribbons.
- ② chert with argillite
- ③ Quartzite ± argillite ± fine Gr wacke
- ④ Quartz Pebbles Conglomerate
- ⑤ Argillite / Phyllite
- ⑥ Limestone
- ⑦ Grey wacke.
- ⑧ Limestone Lobble Breccia.
- ⑨ Coarse wackes, grits, sandstone.
- ⑩ Multilithic Conglomerates.

Abbreviations.

- QP, QFP - Quartz (Feldspare) Porphyry
- XT - Crystal tuff
- Ves - Vesicular.
- Str, Mod, Wk - Strong, Moderate, Weak.
- CC - Ca-carb.
- FEC - Fe-carb.

R. D. PENHALL LTD. MADE IN B.C. DUKSBAK WATERPROOF

Alterations-

- ① Sericite.
- ② Silica.
- ③ Carbonate.
- ④ chlorite.

Mineralization-

- ① —
- ② Trace
- ③ Trace 1%
- ④ 1-5%
- ⑤ 5-10%
- ⑥ 10-25%
- ⑦ > 25%.

W.S. - weathered surface

F.S. - Fresh surface

Texture

Composition

Alteration

Sulphides

Structure

August 23, 1984

K. Heather  
T. McCrae

Cheek location of 7044 and 7045 area outcrops on Upper Wikiup Creek area. Also mapped and re-examined road  $\%'$ s along Wikiup Road (Upper).

August 24, 1984

Day off!

August 25, 1984

Office day.

August 26, 1984

Showed Ian Pirie and Mike Burson a section in the Anna claims along road near Botteral Creek. Afternoon was spent on Northern portion

of (Wiki up) Dixon Lake Grid.

Mike found some sulphides  
on K 129 (galena + pyrite)

August 27, 1984

Morning: Myself and M.B.

check out location of  
claims posts to tell whether  
there is a gap between  
the SC-3 - Anna-8 claims  
and the Arvon - Faye  
claims (turns out there is  
300-400m gap.)

Afternoon: Went to the  
loops (Kam loops) to pick  
up staking regulations and  
to return the radio.

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claims (turns out there is  
300-400m gap.)

Afternoon: Went to the  
loops (Kam loops) to pick  
up staking regulations and  
to return the radio.



August 28, 1984

Office day! Cleaned up regional recon. rocks and geology

August 29, 1984

Office day!

Looked at thin-sections; packed remaining recon rocks away in boxes; started examining the Dixon lake grid rx's.

METRIC	ENGLISH		
1840	6100		
1810	6000		
1785	5900		
1755	5800		
1725	5700		
1695	5600		
1665	5500		
1635	5400		
1605	5300		
1575	5200		
1545	5100		
1515	5000		
1485	4900		
1455	4800		
1424	4700		
1394	4600		
1364	4500		
1333	4400		
1303	4300		
1273	4200		
1242	4100		
1212	4000		
1182	3900		
1152	3800		

1121	3700
1091	3600
1061	3500
1030	3400
1000	3300
970	3200
939	3100
909	3000
879	2900
848	2800
818	2700
788	2600
758	2500
727	2400
697	2300
667	2200
636	2100
606	2000
576	1900

## Rocks For Cutting

		CUT
5087	ribbon chert	✓
5090	diorite	✓
5091	diorite	✓
H.S.-8	conglomerate?	
H.S.-8	"	
BCS-2095	chert bx.	✓
BCS-2096	quartz eye porphyry (rhy).	✓
BCS-2097	chert w/ alteration contact	✓
BCS-2098	diorite (c. gr.)	✓
6070	?	✓
6072 A & B	Bx ?	✓✓
5094	Clastic?	✓
<sup>5096</sup> 5098	conglomerate?	✓
5097		✓
5101		✓
5105		✓
5107		✓
5108		✓

$$\begin{array}{r}
 25 \\
 \underline{32} \\
 50 \\
 25 \\
 \hline
 800
 \end{array}$$

core from Chu Chu  
deposit from

BDH - CC26 40-60m

grid line

Line 0+00 (E-W line)  
1+50 E  
on road (1/2<sup>mile</sup> upper Wikia)  
of a  
Upper Wikia

# LEGEND

WR

Whole Rock Sample

GS

Geochem chip sample

HS

Handspecimen

↗

foliation

5074 quartzose sst. } don't need to  
5075 argillite } bring.

5076 ① ash tuff  
② lapilli tuff

✓ 5077 Sam pyroclastics

5078 (no hand specimen)

BCS ✓ 2085 ① fine grained greenish chl sed.? ash?  
② conglomerate? lapilli?

BCS ✓ 2086 ① QFP

2086A ② chl. vein.

BCS-2087 argillite

BCS-2088 ① Johnson pyro?  
② " "

5079 QFP

BCS-2089 argillite

5080 ① Johnson pyro.

② Johnson pyro.

③ massive ~~rock~~ rock.

5081 mafic chl-ser rx?

5082 ser. rx.?

Aug 25/84

July

Rocks and geochem  
completed from  
July 2 → 15, 1984.

Sun

Up

at

end of  
southeast

elev.  $1230 \times 3.3 = 3690 + 410 = 4100\text{ft}$

BCS-2076

(H.S. ; WR.)

large outcrop of pyroclastics  
which look like lapilli tuffs. Strong  
foliation obscures fragmental texture.  
Has a distinct greenish-grey to  
purplish-grey hue.

$\nearrow$   $\frac{322}{152} / 24^\circ \text{NE}$

Similar looking to what was seen  
at the end of lower Wikiup road  
on July 1, 1984.

Can see feldspar phenocryst  
ghosts throughout rock.

Aug. 13/84: 72.7%  $\text{SiO}_2$

Analysis is close to that of a  
typical rhyolite. Similar looking  
(chemically and physically) to 5077 & 5078.



July 2, 1984

K. Heather

T. McRae

Sunny, traverse from end of  
Upper Wikiup road southeast  
at  $164^\circ$  along ridge.

elev.  $1230 \times 3.3 = 3690 + 410 = 4100\text{ft}$

BLS-2076 (H.S.; WR.)

large outcrop of pyroclastics  
which look like lapilli tuffs. Strong  
foliation obscures fragmental texture.  
Has a distinct greenish-grey to  
purplish-grey hue.

$\nearrow \begin{matrix} 322 \\ 152 \end{matrix} / 24^\circ \text{NE}$

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(chemically and physically) to 5077 & 5078.

**FLOAT**

(H.S.)

shows good lapilli texture  
taken between 44 → 45

**BR84-7044**

(H.S. only).

Good lapilli tuff. containing  
abundant lithic frags.

↗ Foliation 130/50NE

**BR84-7044** (H.S., G.S.)

Lapilli tuff; identical to 7042,  
and portions are like 7043.

↘ 126°/42NE

The majority of the outcrop is  
the massive fine grained variety.

Aug. 28/84: Lapilli tuff.

BR84-7044

(two H.S.)

↗ 124°/60NE

large outcrop of massive grn. siliceous rock that is similar to those already seen today. Locally qtz-carb. veining.

BR84-7045

(CUT)

(H.S., G.S.)

↗ 128/30 NE

Large outcrop of lapilli and ash tuff (mafic). Excellent frags in loose weathered pieces.

Aug 28/84: Good lapilli tuff.

July 3<sup>rd</sup>, 1984

K. Heather  
M. Corrigan

Sunny, traverse from Fire Tower on Dixon Ridge (North) to Wikiup Road (Upper).

~1300m to first Knoll (minimum) at 080° (800m to road).

from first Knoll back to second Knoll at 035~040°, 1100m minm.

**BR84-5061** (H.S., Litho) **CUT**

small % in creek east of Wikiup Road (Lower). (end of it).

Very rusty withing % of <sup>grey</sup> argillaceous mudstone. Very pyritic; also contains qtz veinlets (+/- carbonate but difficult to tell). Some 'zones' (beds??) seem more siliceous and blocky weathering.

↗ 140/56 NE

Aug 28/84: Contains fragments (angular) up to 2cm across. Argillaceous matrix conglomerate.

BR84-5062 (3 H.S., Litho). (3 CUT)

Mafic (?) lapilli tuff that locally appears to have ash tuff interbeds (?). North end of outcrop shows numerous lithic (?) white coloured, scoriaceous (vesicular) frags. (0.1 mm  $\rightarrow$  5 cm in diameter). Matrix is a greyish green colour.

Lapilli texture shows up best on a weathered surface.

Numerous qtz and qtz + Fe-carb veins run // to sub // to the foliation.

Locally there are no obvious fragments and the beds (?) are massive. (ash tuff?).

↗ 114/47 NE

Aug 28/84:

Lapilli tuff.

Locally appears to be reworked (sedimentary looking?).

① Photo taken here of lapilli texture

BR84-5063 ( H.S. , 3 litho )

Predominately lapilli tuff to block (agglomerate) tuff. Locally large blocks (up to 40 to 50 cm in diameter) ranging in shape from rounded to rectangular to angular. Very heterolithic in fragment composition. Numerous frags of white colour with hornblende ( $\rightarrow$  chlorite altered) phenocrysts.

(top of)  
%  $\checkmark$  119/49 NE

Qtz and qtz + carbonate (both calcite and Fe-carbonate veins and veinlets are common (up to 4cm wide locally. Pyrite can also be seen locally. Veinlets form a stockwork in places ( // to foliation and x-cutting foliation).

Litho samples were taken of  
 Agglomerate 80  
 Lapilli 5063  
 Ash (?) 50

Apple green alteration <sup>mineral</sup> found  
 in the ash component.  
 Occurs as streaks and  
 isolated disseminations.

Also, see hornblende phenos  
 altered to a brown pseudomorphing  
 mineral (??).

BCS-2077

(2 H.S., WR) (2 CUT)  
 Whole rock sample

of an ash flow tuff?  
 has carbonate (brown)  
 alteration and has  
 unknown green mineral.  
 occurs near lapilli  
 tuff layer.

From top of %.

2 Ⓢ handspecimens

Aug 1/84. Get thin section to what  
 mineralogy is. i.e. green and  
 brown minerals.

July 4<sup>th</sup>, 1984

K. Heather

M. Corrigan

Sunny, traverse from end of Upper Wikiup road to outcrop southeast, with Dighem anomaly.

BCS-2078

CUT

(1 H.S., W.R.)

Dighem anomaly located 195m from end of Wikiup (Upper) Road at a bearing of  $200^{\circ}$ .

Small knoll with float littering the top. Small outcrop at northern end is thought to be in place. Rock has a green to grey colour with vague green (chlorite?) and white (feldspar) phenocrysts. Appears to be a volcanic rock but may be a reworked volcanic <sup>derived</sup> sed.

Rock is similar to the massive green rock encountered on July 2 traverse. Rock is cut locally with qtz-carb. veinlets. Rock fizzes weakly in HCl.

↗ 111 / 42 NE

↗ 110 / 37 NE



BR84-5064 (2 H.S., Litho) (2 CUT)

Small % of what appears to be a volcanic (poss. intrusive) similar if not identical to BCS-2078.

The green chloritic matrix appears to be limy as it fizzes moderately in HCl (cold).

There appears to be two varieties based on weathered float lying on the %. The first has hornblende (altered to chlorite) phenocrysts solely being the dominate phenocryst. The second has hornblende (chlorite altered) and feldspar phenocrysts. Distribution on the outcrop scale cannot be determined.

Hornblende (+/- feldspar) porphyry (?)

Handspecimens taken of each type.

(?) not confident this is foliation  
 ✓ 086/23 N

overall the rock is not that foliated.

Aug 28/84:

BR84-5065

(CUT) (H.S., Litho)

Aug 28/64:

✓ 118/41 NE

Lapilli tuff.

Foliation is strong.

Rock is same as 5064.

BCS-2079

(2 HS, WR) (CUT)

Mafic lapilli tuff (frags 1 → 10 mm in diameter) average 3-4 mm diameter. Matrix is purplish grey with green tinge (chlorite).

Frag are chloritic and locally appear to be bleached.

✓ 121/41 NE

A sample near litho 84BR-2066 taken shows diss. pyrite (altered out now). # BCS-2079A

BR8A-5066

CUT

(1 H.S., 1 Litho)

Get Au (geochem) done.

Disseminated siderite pseudomorphing pyrite cubes. Locally the siderite is oxidized to limonite.

Matrix totally chloritized indicating it may be of basaltic or andesitic composition.

Aug. 28/84: ✓

BCS-2080

(2 H.S., 1 W.R.)

2CUT

Very chloritic rock. that appears to underlie (?) the lapilli tuffs of BCS-2079 and 2079A.

Apparent bedding (?) is parallel or very close to foliation (Z)

foliation is

Z 118/37 NE

There are numerous  $\text{qtz}$ -Fe carb.  
-pyrite

veinlets with alteration haloes  
cutting <sup>portion of</sup> this outcrop. The diss.  
siderite(?) after pyrite rock  
is topographically and  $\therefore$  tentatively  
stratigraphically below this  
station.

BR84-5067 (1 H.S., Litho)

Massive green chloritized volcanic  
mafic (basalt) (?)

Aug 28/84: ✓

# Photo's Taken

① Lapilli tuff

July 5, 1984

K. Heather  
M. Carrigan

Sunny, traverse from

② Photo taken of variolites in  
a pillow basalt.

No litho sample taken

Small % located near top of  
hill on northwest side. 1520 m

Argillite, greyish with blue hue.  
Contains qtz (or calcite) (had  
no acid) CHECK IT!

Rusty w/thing, not really siliceous.  
~~recessive~~ recessive w/thing locally.  
but quartz pods(?) make it seem siliceous

✓ 155/41 NE

They are // to the  
foliation

**BR84-5068** (1 H.S., litho)

Chloritic rock with  $qz$   $pr$ s  
similar to that seen in  
5068.

Interpretate this rock as a  
mafic volcanic.

See varicolites.

Aug 13/84: Geochem  
supports this.  
Mafic - basalt.

✓ 133/40 NE

**HS-1** subgrp of grey gritty siltstone  
(sandstone).  
Contains pyrite veinlets.

**BR84-5069** (1 H.S., litho).

✓ 126/55 NE

small % of pyritic sed?  
Has green tinge poss. due to  
chl.

5-10% diss. py. (now oxidized out).

**HS-2** poss. sed. ?  
poss volcanic ?  
contains pyrite cubes.

**BR84-5070** (1 H.S., Litho)

Aug 13/84: Geochem  
supports below.

Z 130/42 NE

3 small % on side of third  
Knob.

Appears to be chloritized  
mafic volcanic.

Abundant carbonate (Fe)  
and qtz strings // and  
sub // to the foliation.  
Rock is well foliated

**BR84-5071** (1 H.S., Litho)

Aug. 13/84: 87% SiO<sub>2</sub>

Z 118/38 NE ∴ quartz dominated silty  
sediment.

small % of grey silty sediment  
with minor diss. pyrite.

**H.S.-3** subcrop of carbonate-rich chloritic? volcanics?

**BR84-5072** (2 H.S., Litho)

subcrop? of siliceous grey argillite.  
Has calcite (CHECK w/ ACID)  
strings that are // to the  
foliation and appear to be



Aug 13, 1984 : Geochem indicates

59% CaO (: limestone).

could be unaged  
The second A.S. shows the  
silicified nature of the rock.

BR84 - 5073

(2 CUT)

(2 H.S., litho)

BCS - 2081

1 WR + Geochem

Small % of greyish blue chert  
with <sup>white</sup> massive and vein buff quartz  
(~~with~~). Host rx is strongly  
sericite altered (~~with~~) and  
shot with buff quartz stringers.

Could be Rea Bx equivalent.

③ Photo of mottled white-grey  
chert

④ Photo qtz veins cutting  
blush grey chert.

BCS - 2082

(1 CUT)

(1 H.S., WR + Geochem)

subcrop of blush-grey  
chert containing qtz - and  
diss. py. mineralizations.  
Within DIGHEM anomaly  
area.

Aug 13/84 : 88.5% SiO<sub>2</sub> (: chert)(: chert) 87% SiO<sub>2</sub>

July 6, 1984

Day off! No traverse

July 7, 1984

K. Heather  
M. Corrigan

Partly overcast; traverse along Wikip Road (Lower).

Start from far end of road heading down.

Odometer = 34.1 km. (start at end of the road).

(CUT)

BR84-5074

(1 H.S., Litho)

- 150m down road.
- large subcrop of quartzose sandstone.
- greyish siliceous matrix.
- poss. a glacial erratic.
- however diff. to tell.

Aug. 13/84: 93% SiO<sub>2</sub> (geochem).

∴ Quartzite.

Aug. 20/84: Dirty; contains occasional black argillite fragment.

BR84-5075

1 CUT

2 H.S., Litho, Additional  
bag for  
Ag, Au, Pb,  
Geochem

BCS-2083

Aug. 28/84. Cherty

Corner of switchback in road  
(791.6m from start).

Argillite with some siliceous  
argillite in a talus out of the  
road. Not actually outcrop.

Took a litho and one bag for  
geochem Pb, Ag and Au.

Rock contains diss. pyrite (up to  
2-3mm cubes in the argillite) and  
pyrite in quartz veins (siliceous argillite).

1 CUT

BR84-5076

2 H.S., 1 Litho)

BCS-2084

1 Geochem

120m up from junction along  
spur road from Wilkrip road.

⑤ Photo of bedded nature of  
the ash tuff.

Ash tuff (siliceous) with up to  
10% Fe-carbonate pseudomorphing  
after Pyrite cubes.

Rocks are all very rusty. Locally

see blocks of lapilli tuff intermixed with the ash tuff talus. No bedding could be seen in actual %.

Some of the ash tuffs have small black fragments (flattened) that are poss. juvenile in nature (see handspecimen 5075)

BCS-2084 is a highly Fe-oxidized ~~small~~ sample.

Abundant qtz.-Fe-carb. veinlets.

Green unknown mineral found in rock (commonly near qtz veins?) similar to that found at earlier % in the area ~~north~~ south of here.

One of the HS. collected had a white blebby (spots) appearance. Looks like blebby barite ???

Aug 13/84: Geochem indicates that the  
abundant ash tuff is basaltic (~45%)  
Fe-carb. and altered (6% CaO, 7% MgO).  
carbonate chlorite

BR84-5077 (I.H.S., Litho)

Poss. sam pyroclastics.

Distinct bleaching on weathered surface. Can see feldspar phenocrysts that may be slightly flattened // to the foliation.

Has a distinct greenish-purple colour on fresh surface. Green colour to chloritic nature. Has talc-like texture on the foliation surface.

Local qtz-veining.

Rode may have senale adjacent to these veins.

✓ 118/42 NE

Aug 28/84: Green color of matrix gives it a more mafic appearance than the geochem suggests.

⑥ Photo of lapilli tuff showing possible flow contact (?).

(flogged by red tape).

Aug 13/84: Geochem of 71% SiO<sub>2</sub>

Seems to be high! Do to alteration ???

Similar to BCS-2076 & 5078.

Look like rhyolite analysis

BR84-5078

(no hand specimen, Litho)

Aug. 13/64 :

Same pyroclastics 77% SiO<sub>2</sub>

same as 5077. and BCS-2076.

foliation

↗ 121/63 NE

Vague lapilli texture.

(2 CUT)

BCS-2085

(2 H.S., WR)

(110m east of junction)

Fine grained (silty) sediment with greenish-grey matrix.

Has lens (or pads) of polymictic conglomerate that may be filling channels. Minor diss. pyrite cubes found in the siltstone portion of the rock. Fragments are well rounded and include quartz which indicates it is likely a sediment as opposed to being a volcanic (ie ash and lapilli tuff). No well foliated.

(7) photo of conglomerate.

(8) " " "

Fragments (pebbles) include quartz and what appears to be lapilli tuff. Frags are very well rounded.

Apparent bedding strikes

134/40 NE } Aug 13/64: 46% SiO<sub>2</sub>  
 122/35 NE } 1.5% TiO<sub>2</sub>  
 altered ⇒ High L.O.I. ⇒ Poss. a mafic detrital sediment. (chloritic and carbonate altered).

Locally, the rock is cut by qtz-carb veins. See large pyrite cubes (0.5 cm) in siltstone adjacent to these veins.

BCS-2086 (1 H.S., CUT 1 WR + geochem).

% of very blocky withing rock

Very siliceous containing small (1-2mm dia.) round dark cebur (Uranium bearing) quartz eyes, 3-4mm euhedral plagioclase phenocrysts and tabular (rarer) phenocrysts of hornblende (chlorite now). Matrix (groundmass) is siliceous and

Aug 13/84: Geochem indicates it may be closer to a Dacite in composition

fine grained (aphanitic). Poss. a rhyolite. <sup>(however also somewhat altered)</sup> { 4.6% L.O.I. }

Contains pyrite assoc. w/ qtz-carb. veins.

No obvious foliation.

Rusty withing.

Locally see pockets filled with calcite.

Also assoc. w/ the qtz-carb. veins is a green (soft) mineral that looks like chlorite. (see BCS-2086A).

The rock is altered adjacent to these veins.

BCS-2087 (litho)

Black, rusty withing, pyritic slightly siliceous (locally) argillite

BCS-2088 (NR, 2 H.S)

greenish coloured rock which is sericitized. Cut by irregular pattern



of argillite which locally is quite siliceous.

Whole rock is of sericitic rock only.

Locally the rock is very pyritic. Aug 13/84 - 68%  $\text{SiO}_2$   
3.9%  $\text{K}_2\text{O}$

Overall pseudo-breccia texture resembles the Johnson pyroclastics.

Locally there appear to be siliceous shards that are flattened in a preferred direction.

Quartz-Fe carb. veins X-cut

the black argillite.

BR84-5079

(cut)

(H.S.,

Aug 22/84

Moderate Fe-carb. alteration.

QFP similar % of quartz-eye bearing porphyry with a greyish coloured groundmass. (siliceous). Aug 13/84. 62%  $\text{SiO}_2$   
indicates dacitic.

Quartz eyes are dark poss.

indicating the presence of Uranium

July 8, 1984

K. Heather  
M. Corrigan

Partly overcast w/ sunny periods.  
Continuation of traverse  
along lower Wikiup Road.

BES-2089

(1 H.S., Litho and  
Aug. 13/84: 90% SiO<sub>2</sub> according to geochem for  
the geochem. Pb, Ag, Au).  
550 ppb Ag.

Black fine grained argillite.  
Not siliceous. Very rusty withing  
locally diss. pyrite.

2086/54 NE

Rock is strongly foliated and  
in places appears to be  
sheared (?).

(1 CUT)  
BR84-5080 (3 H.S., Litho)

Appears to be Johnson pyroclastics.

The rx. is very sericitic(?) and poss chloritic. It also has abundant diss. pyrite as cubes (up to 0.5cm across). Closest to the contact (west) w/ the argillite the amount of argillite stockwork(?) increases. You almost get the feeling this is an extrusive crystal flow that formed on a basin of graphitic (carbonaceous mud) and that as it solidified the argillite was forced up fractures and joints. locally the matrix is more grey in colour (see hand specimen). Also locally some of the frags (small) have  $\nabla$  shaped particles (juvenile fragments?).

Aug 28/84: Abundant feldspar phen's occasional qtz eyes. Looks like a GEP flow. Some specimens show good fragmentary texture.

⑬ Johnson pyroclastic photo.

⑨ } smashed up cars in Barriere.

⑩ }

⑪ }

BR84-5081 (Litho)

Subcrop (?) of sericitic and chloritic rx similar to

5080. Has black argillite (subcrop)

on its eastern side

Dighem anomaly located ~80m south of road at 5081 appears to be caused by two large (8m x 4m x 6m) pieces of subcrop (float) of chloritic rock (slightly magnetic locally). (see H.S. Dighem anomaly)

Dighem anomaly north of 5081 approx. 100m (long one // to road). No %c. Small rounded pieces of float however.

ER84-5082 (1 H.S., Litho)

% in logging area. Sericitic rx with up to 10% diss. pyrite (now limonite). I don't really know what to call it but it looks similar to 5080 and 5081.

Aug 13/84: All (5080, 5081 & 5082) samples are between 59-65% SiO<sub>2</sub>.

Major skid road takes off at 510m past "end" on the map.

725m to first creek.

1630m to argillite  $\%.$

also spur road goes off to the right as you're coming up the road.

BCS-2090 450 ppm Zn; 230 ppb Ag  
fault gauge (see page 3 one)

BCS-2091 argillite 630 ppb Ag

Intensely sheared and foliated argillite w/ minor siliceous zones and silty zones. Extremely waxy (all the pyrite has withed out). Locally the rock is just gouge (poss. a fault zone).

Litho is of some of the fault gouge and the other of just argillite (pyritic).

The foliation isn't that of the regional trend (ie  $120^\circ$ )

but quite variable and  
close to 172 / steep to the NE.

1683m is ACS-2091A (H.S. only)

1866m to silty argillite  
which shows bedding between  
dark argillite beds and  
bluish-grey coloured silty  
beds (thin).

H.S.-5 ↗

Y 017/20 SE may be slumped  
slightly

Z 137/49NE (not well  
developed)

Z 127/48NE (more likely to  
be in place).

1925m to end of sed. o/c  
get into silty argillite and  
minor limestone at this point.

BCS-2092

5083

5084

5085

5086

2093

Heather

Corrigan

SC clams.

BCS-2092

(CUT)

(1 H.S., 1 WR)

Large % at road (in clearing)  
at start of traverse.

% w/thes a bleached white w/  
yellow and pink patches.

Massive rhyolite w/ numerous  
small quartz veinlets x-cutting  
it. Minor diss. py (1%).

(B) photo of massive rhyolite  
showing the above features.

SC84-5083

(CUT)

(1 H.S., 1 Litho)

small % on skidder trail next to  
creek (strong iron staining in creek).

Small glaciated % of rhyolite.

Similar to that found in BCS-2092.

Aug. 13/84:

July 9, 1984

K. Heather  
M. Corrigan

Traverse on the SC claims.

BCS-2092

(CUT)  
(1 H.S., 1 WR)

Large % at road (in clearing)  
at start of traverse.

% w/thes a bleached white w/  
yellow and pink patches.

Massive rhyolite w/ numerous  
small quartz veinlets x-cutting  
it. Minor diss. py (1%).

(B) photo of massive rhyolite  
showing the above features.

SC84-5083

(1 CUT)  
(1 H.S., 1 Litho)

Small % on skidder trail next to  
creek (strong iron staining in creek).

Small glaciated % of rhyolite.

Similar to that found in BCS-2092.

Aug. 13/84:



2% diss. pyrite.

mod.-strong quartz veinlet  
(stockwork)

Vague lapilli texture.

(1 CUT)

SC84 - 5084 (2 H.S., Litho)

Knoll of what looks like intercalated  
flows of massive siliceous rhyolite  
(5084A) and lapilli tuff rhyolite (?)  
(5084B) containing discrete feldspar phenocrysts.

(2 CUT)

SC84 - 5085 (3 H.S., Litho)

% of massive rhyolite (white) w/  
knobby withing. intercalated flows (resembles  
pebble conglomerate) has quartz and  
feldspar phenocrysts (XT = crystal tuff).

(14) logged off hill photo

(15) photo of massive and crystalline  
rhyolite interbedded.

apparent flow contact attitude

is  $\swarrow$  45/50 NE

GET THIN-SECTION TO WHAT MATRIX  
IS MADE OF.

1 CUT

SC84 - 5086 (2 H.S., Litho)

Rhyolite, Flow breccia instead.

% of what looks like "mill rock" (rhyolitic breccia) intercalated w/ flow rock in which fine banding can be seen. These bands can also be seen in the fragments of the breccia.

This bx is intercalated with both light greenish white rhyolite w/ feldspar not so prominent and w/ dark grey rhyolite w/ prominent feldspar phenocrysts.

5086 A light rhyolite

5086 B dark rhyolite (cut)

no mill rock specimen.

(16) rhyolite bx } photo

(17) rhyolite bx }

(18) rhyolitic flow

Aug 1/84: 5086 A - Vague feldspar ghosts in a greenish groundmass (sericite?). (1-2% limonite after pyrite cube).

5087 B - Grey groundmass QFP.

BCS-2093

(1 H.S., 1 WR)

Southwest corner of second open cut. Small outcrop of massive blue colored (grey tinge) chert or rhyolite. Aug 1/84 most likely still orbiting for geochem.

No bedding, breccia or flow textures seen. (= CHERT). Aug 13/84: 89% SiO<sub>2</sub>

(VT)

BCS-2094

(1 H.S., 1 WR)

Aug 13/84: Geochem supports Diorite interpretation. 50%  
Reasonably fresh hornblende (40%)  
feldspar (40% 35%), quartz (10-20%).

intrusive rx. (minor diss. py locally)

Also seen is the contact between the chert (rhyolite) and the intrusive.

⑩ photo of rhyolite - intrusive contact. (actually seem like xenoliths of chert)

Can see small frags of blue rhyolite (rusty locally)

July 10, 1984

Office day. Caught up on map plotting etc.

July 11, 1984

K. Heather

M. Corrigan

Sunny, road traverse up logging roads near headwaters of Spargue Creek.

H.S. 7 (H.S.)

Diorite similar to BCS-2093.

BCS-2095 (Z.H.S., W.R.)

(1 CUT)  
(20) photo of chert bx.

Subcrop of massive grey chert w/ minor diss py locally and chert bx w/ various light and dark chert frags angular and rounded. Frags vary in size from 5cm down to

(1a) >

Aug 1/84: Some frags have dark core, light rim and others are visa versa. Matrix is also siliceous with greenish-yellow colour. (do to a qtz-sericite matrix?).

Aug 25/84: 81%  $\text{SiO}_2$ ; 7.7%  $\text{Al}_2\text{O}_3$  (seems high for a chert?). Poss. some rhyolite.

BCS-2096 (1 CUT A.S., WR)

Adjacent to BCS-2096.

Small % of what looks like QFP Rhyolite with good quartz eyes.

Aug 1/84: Actually a QFP flow (vague flow structures). Also some Fe-carb. alteration.

Aug 25/84: Good rhyolite (77%  $\text{SiO}_2$ , 0.22%  $\text{TiO}_2$ ).

SC84-5087

(1 cut)

(2 H.S., - Litho)

Large % of black to greyish  
black chert. Locally  
Ribbon chert can be seen  
Bedding is at

164/65 NE

Local argillite (siliceous)  
interbeds and what look like  
chert but difficult to  
tell as fragments (reclasts)  
are vague.

Aug 1/84: some of the lighter bands aren't too  
siliceous.

Aug 25/84: 94.5% SiO<sub>2</sub>

3900 ppm Ba

SC84-5088

(1 cut)

(2 H.S., Litho)

White to grey with <sup>most likely</sup> (chert)  
or rhyolite. Massive bands  
are separated by fests

material of the same composition (doesn't look like argillite).

✓ 064 / 70 SE

↑ poss bedding of a chert  
foliation // to bedding

Most likely also bedding

Aug 1/84: One H.S. is of felsic (rhyolite?)  
XT.

Aug 25/84: Geochem was of chert (94% SiO<sub>2</sub>)  
2310 ppm Ba

SC84-5089

(4 H.S., Litho)

✓ 017 / 71 NW

Interbedded siliceous (chert?)  
beds (2-3 inch) (see photo)

(2) Mike's photo (bedded chert)

w/ non siliceous beds which  
have strong foliation // to  
the bedding

Aug 25/84: 79% SiO<sub>2</sub>, 3620 ppm Ba.

#### 4 Handspecimens Taken

- (A) Fissile inter beds (mudstone)
- (B) Massive light chert (<sup>light grey</sup>)
- (C) dark massive chert (black)
- (D) Massive non-siliceous sed.  
(siltstone).

**H-8** ✓ Numerous handspecimens  
up from last stop.

Ganglomerate? Aug. 1/84 Has a  
black gritty matrix  
which contains feldspar  
phenocrysts. (transported?)

**H-9** ✓ (H.S)  
Sandstone



July 12, 1984

K. Heather  
M. Corrigan

Partly cloudy. Headwaters of Sprague Creek on the ridge west of the creek.

SC84 - 5090 (<sup>CUT</sup> 1 H.S., Litho)

Large % of diorite. 30% medium grained hornblende (locally altered to chlorite) in a feldspar ~~matrix~~ groundmass. % is massive and blocky and forms a small cliff. No foliation.

Aug. 25/84: Geotem checks.

SC84-5091

cut

(I.H.S., Litho)

Finer grained diorite than  
5090. % withes slightly  
rounded rather than blocky.

Aug. 25/84: Geochem checks.

July 13, 1984

K. Heather

M. Burson

Cloudy w/ occasional rain &

Sunny periods.

Traverse by road to north  
half of SC-3 and 4 and  
to isolated SC-1.

Saw an outcrop of  
chert and chert pebble  
conglomerate in cut area  
in SC-1 claim.

July 14, 1984K. Heather  
K. MeagherSunny!Traverse in northwest  
corner of SC claims

SC84-6070	( <sup>1</sup> / <sub>2</sub> H.S., Litho)
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Appear to be siliceous  
sediment, poss a sandstone  
locally it is brecciated by  
lighter colored material that  
may be vein material

2 H.S. taken

(1) massive sst

(2) brecciated rx.

Aug. 1/84 Not a sediment! Either a  
diorite or a mafic volcanic.Presence of bx material may be  
hyaloclastic bx associated w/  
pillows?

Aug. 25/84: Ⓞ Could be a mafic volcanic.

SC84-6071 (2 H.S., Litho)

Massive greyish-green rx that is slightly magnetic (minor magnetite). Locally the rock is grey (similar to 6070). The rx is ~~tentatively~~ (the greenish one) interpreted as massive mafic volcanics. No internal structures such as pillows or flow bands were seen.

Aug 1/84 Tentatively renamed to mafic volcanics.

Aug 25/84: ✓

SC84-6072 (2 CUT) (2 H.S., Litho)

Massive vol. (mafic) similar to that at 6071.

Small % between 6071 and 6072 of medium grained diorite.

This fine grained <sup>green</sup> rx may be chilled diorite but I doubt it.

(% is 196.0m at 214° from landing area).

Jointing is spaced 2-4 inches apart at 118/90

Local confined areas of brecciated rx. Fragments are small (up to 2cm but average 1cm dia.) dark chloritic angular ones set into a lighter slightly siliceous non-fizzing sugary matrix. Poss. a flow top breccia.

H.S. = 6072A

Seems to be intercalated w/ more massive looking rx (6072B).

Aug 1/84: Poss. mafic volcanic w/ pillows and bx(?).

Aug 25/84: ✓

BCS-2097

(cut)

 (1 H.S., WR)

Apparent contact between light grey chert and medium grained diorite. The chert makes up a small portion of the %c. There is 2cm band of white chert (alteration halo) adjacent to the diorite (see H.S. for this rim).

Aug 25/84: Bleached halo →

No bedding could be seen in the chert.

contact is at  $220^\circ$

Aug 25/84: Looks like a chert matrix w/ chert (rounded) frags. 85%  $\text{SiO}_2$ , 5.7%  $\text{Al}_2\text{O}_3$  and 3.4%  $\text{Na}_2\text{O}$  indicated the presence of some plagioclase.

H.S-10

(1 H.S.)

Coarse grained diorite but has much more mafic 35-40% than does most seen so far. Contains long slender hornblende x-tals (1cm in length).

**BCS-2098** (1 <sup>CUT</sup> H.S., WR).

Some hornblendes are up to  
4 cm long.

Good Sandwieg surfaces.

327/80 SW

065/50 SE

Very coarse grained diorite

Aug. 25/84: ✓

**SC84-6073** (1 H.S., Litho)

Xenolith of fine grained  
greenish rock with vugs  
(vesicles?) of calcite. in

medium grained diorite.

Mafic volcanic xenolith?

Aug. 25/84: ✓

SC84-6074 (I.H.S., litho)

Small % on road of  
fine grained mafic rx. Not  
sure if it is a mafic volcanic  
or a very fine grained  
mafic diorite.

Massive blocky %.

What appear to be vesicles  
were seen. (Mafic vol. then).



**BCS-2098** (1 H.S., WR). <sup>(CUT)</sup>

Some hornblendes are up to 4cm long.

Good Sandwieg surfaces.

327 / 80 SW

065 / 50 SE

Very coarse grained diorite

Aug. 25/84: ✓

**SC84-6073** (1 H.S., Litho)

Xenolith of fine grained greenish rock with vugs (vesicles?) of calcite. in medium grained diorite.

Mafic volcanic xenolith?

Aug. 25/84: ✓

July 15, 1984

K. Heather  
M. Corrigan

Traverse from Sprague Creek Road down east side of Botteral Creek to the main Highway along the Barriere River. Very Hot  $30^{\circ}\text{C}$ :

800m to first % at  $\sim 120^{\circ}$  (600m to Botteral Creek (both estimates)).

SC84-5092 (1 H.S., Litho)

Small % of chloritic mafic volcanic containing 0.5% diss. pyrite locally. No internal structures were observed.

Diorite?

Aug. 1/84: Appears to be diorite but getting cut to make sure.

Aug 25/84 : ✓

SC84-5093 (no. H.S., Litho)

Early large % of mafic volcanic  
w/ hornblende(!). Some places <sup>contain</sup> ~~and~~  
more hornblende than others.

TT

Check location of WSS sample 1, the  
# 7064 against where you believe it  
is. { checked July 15, 1984 }  
{ Spot on! }

Aug 25/84: Mafic ✓

SC84-5094

(<sup>1 cut</sup> 2 H.S., Litho)

Small % south of large open  
area. Interbedded siliceous rx  
(chert locally) and fissile sediment.

↗ 006 / 705 <sup>E</sup> ~~SW~~ (Bedding as well)

The foliation in the fissile rx  
is // to the bedding.

Siliceous beds are poddy (lens)

Some beds contain abundant

dark argillite frogs (see H.S.)  
that grade up into fiske  
green coloured sediment.

(22) Mike took photo of this

Aug 1/84: dark (argillite) and light (chest)

frogs in tight packing (frog supported).

Aug 25/84: 81% SiO<sub>2</sub>; 4500 ppm Ba, 280 ppm Cu  
103 ppm Zn

SC84-5095 (1 H.S., Litho)

Large rounded s/c of altered  
QFP. Quartz eyes (1-2 mm dia)  
and feldspar phenocrysts were  
seen. Nothing really fresh could  
be sampled. No obvious foliation

Aug 1/84: greenish tinge due to sericitic(?)

Aug 25/84: Low Na<sub>2</sub>O = 0.375

High Ba = 8200 ppm

No K<sub>2</sub>O value so can't see if  
it is truly sericitically altered.

H.S.-12 (H.S.)

QFP from outcrop

SC84-5096 (1 H.S., Litho)

Not sure what the rock type is but it looks fine grained, greyish to greenish, locally 1% - 2% diss pyrite (up to 1cm across (cubes)).

Not sure whether it is a sediment or a volcanic?

No obvious foliation.

Aug. 1/84: Still don't know what it is?

Aug. 25/84: 79% SiO<sub>2</sub>  
6300 ppm Ba

Most likely an altered sed?

SC84-5097 (1 H.S., Litho)

Jointing 040/41 SE

150/53 SW

346/40 SW

Large % on bluff overlooking Botteral Creek valley and

# Barriere Creek Valley

Appear to be QFP that shows  
flaw textures (?) similar to that  
observed in 84SC-5025 (July 9)

(23) Photo taken by M. Corrigan  
of these flaws. Can see  
chert or massive flaw.

Aug 25/84: Rhyolite (78% SiO<sub>2</sub>, D.133TiO<sub>2</sub>)  
3510 ppm Ba.

H.S.-13 (2 H.S.).

grey chert w/ other sed  
on cliff

∇ (bedding?) 004/80SW

SC84-5098 (H.S., 1, the)

Conglomerate in greenish matrix, frags are cherty (white, grey, black,) also greenish frags.

Angular to well rounded  
Crude grading but not enough time to check for tops

(2A) Photo of above

Aug 1./84: Matrix is a greenish-yellow colour (chlorite +/- sericite).

Some frags are siliceous w/ feldspar phenocrysts.

Abundant fine grained green frags. (volcanic).

Matrix is somewhat similar looking to that in SES-2095(?)

GET THIN SECTION SEE WHAT MATRIX IS.