

SBS 2

Wed July 6, 1988

SBS 5 L79 N

824256

Shelley, Mike // lines

Wet and cold

L78+50N 100+00E (BL)

- V.F. bedded sediments. Black argillite interbedded w/ a white siliceous SLST or chert. Argillites are soft, white beds are hard (>5 $\frac{1}{2}$)
- The beds are fine ranging from 0.5mm to 10mm.

altitude: 176/48 E

SAMPLE SBL1001

- Note: locally the dark argillaceous sediments predominate but there can be a highly tuffaceous character to the rocks. Green, tuffaceous looking beds show wk chloritization and there may be wk pyroxene/amphibole homfelsing - (appearance of fig. diopside?)

The outcrop is not phyllitic but is v. competent. There is an absence of ϕV and fractures.

- 79+10N 101+60E
interbedded black argillite and white f.g. SLST.

- Bedding well defined att: 126/56NE

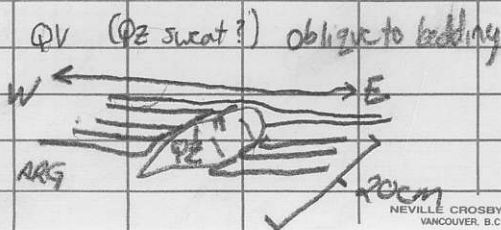
- There is a weak mineral foliation developing // to bedding.

att: 126/56NE

SAMPLE SL1002

- other than for the weak foliation there is no evidence of any significant alteration of the sediments.

(note: no appearance of a tuffaceous character: seds structurally above tuffs?)



— L79+12N 102+70E

OLD CLAIM POST

189445 M PINE 45 (Initial Post #1)

OCT 31 1971

E. Beauvais agent for Ed Taggath

DIR TO POST 2 540E

DIST 1500m

Feet to left 1500

189446 M PINE 46 (Initial post #2)

— 78+70N 104+95E

Predominantly fsp-rich rock.

Fsp (80%) anhedral to subhedral.

20% mafics

The unit is massive (no bedding),

medium grained with TR to

1% disseminated PY.

- A good crystalline texture is not developed and the fresh surface is brown/orange.

- NO QZ EYES VISIBLE

- The outcrop shows strong jointing

att: 110/58NE

- SAMPLE SBL1003

- DIORITE

- 105+05 L79+00E

- msv fsp-rich unit.

- QZ eyes visible (<1mm-1mm) [1R-1%]

- alteration of fsp to kaolinite/siderite

gives fresh surface its brown colour.

- There are chlorite blebs (1mm) [1-2%]
throughout the unit. Probably
insitu alteration of the mafics.

Wed July 6, 1988

SBS5 w/ Shelley

Overcast and wet

SBS5-012 (Francoise)

appears to be an msv, w/ky serotized intermediate (felsic-intermediate) flow.

DIAGNOSTIC

- No Qz eyes are visible but [20%] (1-0.5mm) euhedral to subhedral fsp xstals irregularly arranged are visible.

Aphanitic matrix.

- Locally fsp xstals dominate [30%] (1-2mm) and are coarser.

Does not display any strong crystalline textures.

- There is strong Qz veining (1)

(LOCALLY - Rare Qz eyes (1mm))

- v. little alteration

NOTE L61 10+00 E to Stoon

L62 11+00 E to Stoon

June 6/88 Kern L108 109 W 5:00pm

~~check Rd L63N~~

~~52-53-54-55-56-57~~

~~-SP L 58 59 60 61~~

~~- Title in AC on L63 + RD~~

~~- CHK L56N Rd~~

June 10/88 Grant 128/29 SM

46 3+00

47 4+00

48 5+00

49 6+00

SBS5-028

Look mafic
Qu'est-ce que c'est
check lithogeochem.

SBS5-036

Mila's Diorite
shelving Andesite

78+75N

103+506

Thursday July 7, 1988

SBS 2 L 80, 81 E084

Laurel + Mike

Clear + warm

L 80+100N 2+00E

-MSV, v. competent blue/g intermediate volcanic. There are subhedral fsp crystals (1mm) [1%] in an aphanitic matrix. A strong primary layering is present which is more of a flow banding than a bedding.

(< 1 mm)

attitude:

150°/54 NE

- There is little alteration and no mineralization.

- DACITE

- On the outcrop scale there are veins of a relatively hard (~4) fibrous mineral, dark green.

Veins are approximately 1cm in diameter

The veins trend $\rightarrow 150^\circ$

There are, locally, blebs (1-3cm)
of milky quartz w/ the host.

SAMPLE (Host) SBS1006

(Note: There is a weak min. fol. to date) att: 120/58 NE

- L 79+80N 100+80E

- F.g. dark green - blue intermediate
Ash tuffs. Most likely Andesitic in
composition.

- The unit is finely bedded (1-3 mm)

att: 010/40 E

- There is a mineral foliation

cross-cutting bedding. att: 140/60 NE

- SAMPLE SBL1007

- Q Veining occurs locally (3cm)

crosscutting stratigraphy att: 160/60 SW

- SAMPLE SBT1008

— L79+52N BL 100+00E

Finely bedded argillites \pm intermediate
Ash tuffs.

bedding att:

150/48 NE

There is a weak bedding // foliation

att: 150/48 NE

SAMPLE SBL1009

— 80+50N BL 100+00

Interbedded f.g. intermediate Ash
tuffs and f.g. black argillite.

bedding att:

160/54 NE

SAMPLE SBL1010

There is locally strong biotite hornfelsing
of the arg. lite beds.

— L81+00N 100+12E

Interbedded Argillites and intermediate
ASH tuffs.

SAMPLE SBL1011

- L81+00N 100+65E

Outcrop is

Predominantly f.g. intermediate
Ash tuff interbedded with lesser
argillites. Finely bedded
(0.1 - 1 cm)

alt:

130/56 NE

SAMPLE SBL1012

There is a tremendous amount of
Qveining sub// to bedding
w/ Qz kles (1-2cm) [10%].
(Unadulterated sample of host
was difficult to obtain.)

- L80+98N 104+60E

- msv, v. competent m.g. feldspar-
rich [80%] intrusive. Mafics
(HB or Px?) f.g. [20%].

- DIORITE

- SAMPLE SBL1013

L81700N 104+75E

f.g. fsp-rich intrusive. fsp component
decreasing [50%] mafic [50%]

The f.g. crystalline texture suggests
a chill margin (E extent of diorite?)

SAMPLE SBL1014

[Note L80/81 Backsight @ 106+00E → 238°
(58 not 50)]

FRIDAY, JULY 8, 1988

SBS Z L82 EOB

79, 80 WOBL

Laurel and Mike

Sunny and warm

— (approx L82 @ lead - line not cut)

CLAIM POST : CORNER POST 79448

UR3

POST 6E

KEN DALE 244271 (FMC)

DEC 5 /83

— NOTE L79N, 80N are not cut WOBL

— No exposure LNS 81, 82 WOBL

— L82+00N @ 100+00

finely bedded (0.5 mm - 10 mm) blue-green intermediate ash tuff.

The bedding varies locally at 120/80NE

160/80NE

The unit is moderately siliceous
suggesting a stronger dacitic component.

- sample SBL1015

- Tr PY is present locally.

- The unit is predominantly v.f.g but locally up to [30%] subhedral fsp xtals are visible (0.5-1mm). They are preferentially altered to siderite + kaolinite.

- There is weak CaCO_3 along fracture surfaces.

- L82+00N 100+95E

- finely bedded light green intermediate volcanic ash tuff, probably dacitic in composition.

beds (1-10 cm)

att: 120/10NE

- SAMPLE SBL1016

- There is no apparent alteration or mineralization.

- Note: This may be float.

— L81+75N 102+80E

- MSV (non-bedded) green, m.g. intermediate volcanic unit. Probably andesitic in composition.

fsp (<1mm) [10-20%] often are altered to siderite.

- The matrix is aphanitic.

- There is a weak mineral foliation to this unit.

att:

080/35NW

- The unit is v competent w/ areas of a dark green pervasive alteration product occurring locally. Chlorite most likely (H+Z).

- SAMPLE SBL 1017

- Note: There are large (1-3cm) quartz blebs throughout the host [10-15%].

- MSV Andesite Flow

— L81+70N 105+50E

MSV crystalline (?) unit. Composed almost exclusively out of fsp crystals. There is trace Py disseminated throughout the host and the fresh surface is stained a

red-brown, making it difficult to see any textures.

SAMPLE SBL1018

DIORITE? (or possible c.g./m.g. andesite flow.)

Note: the unit is v. competent suggesting a fine grained component of the Diorite.

— L82+95N 105+50E

- f.g. fsp-rich unit. Massive, v. competent. Fresh surface has altered red-brown. There are v. little mafics present.

- This may be a f.g. chill margin on the diorite.

- SAMPLE SBL1019

— L83+00N 105+75E

Subcrop.

finely bedded dark green andesitic ash tuffs which are v. rusty on weathered surface. Fresh surface shows

moderate diopside hornfelsing.

There is no indication of CaCO_3 .

TR-1% PY. (No magnetite / PO etc)

SAMPLE AGL1020

- L83+00N 105+40E

c.g. diorite

fsp [70%] mafics (biotite) [30%]

Fresh surface is unaltered (\pm TR chlorite).

No mineralization.

SAMPLE SBL1021

- L83+05N 105+10E

MSV, m.g. green unit. Intrusive?

Extrusive? \checkmark competent, w/a weak

preferred mineral foliation

att:

170/62 E

On the fresh surface the ore visible

anhedral fsp [70%] w/ mod Fe

alteration of host. It could be

diorite or an andesitic flow.

SAMPLE SBL1022

TR PY disseminated throughout host.

Saturday July 9, 1988

SBS 2 L83, 84

MM

Overcast, warm

- L83+10N 103+65E

- green mg. volcanic unit. There is

- no apparent bedding but there is a moderate mineral foliation developed (preferred orientation of fsp xtals)

altitude = 13474NE

- The unit is moderately to strongly Fe altered (host). w/ Siderite (Frac) There is a weak kaolinization of the fsp xtals.

- There is TR-1% diss PY mineralization

- SAMPLE SBL1023

- Massive Andesite Flow

- L83+05N 104+30E

msv andesite flow. weakly foliated, Subcrop.

- L83+20N 103+40E

- Altered volcanic (probably intermediate flow) STRONG Fe alteration of host and mod-strong siderite w/ fractures.

There is also a strong, pervasive bleaching of the host. (Albitized?)

No CaCO_3 or magnetite / calc-silicate minerals present.

- sample SBT1024

- L82+97N 102+90E

- msr, v. competent felspar-rich (mg) intrusive [Fsp 95%]. There are

few mafics, \pm a green pyroxene (vfg) (probably diopside) and there is a weak carbonatization.

- The unit is non-magnetic.

- SAMPLE SBL1025

- DIORITE

— L 83 + 03N 100+65 E

- Interbedded black argillite and fig. grey/green siltstones.

- beds vary from (1mm to 10mm).

SLST weather white giving a well-defined bedding attitude : 124/66 NE

- There is a weak mineral foliation parallel to bedding : 124/66 NE

- There are occasional O_2 blebs (5-10mm).

— PREVIOUSLY SAMPLED SB55-003/-002

- There is a wk rusty weathering of the outcrop.

— L 82 + 40N 99+90E

- fig. finely bedded unit which has been moderately to strongly hornfelsed (Diopside \pm biotite). Original textures have been lost \therefore may have been a finely bedded tuff or sediments or both. att : 162/75 NE

- There is 1-2% disseminated P Φ throughout.

- The unit is strongly carbonatized.

- This is the only outcrop anywhere near resembling skarn / Calc-silicate mineral assemblages.

- SAMPLE SBL1026

- L82+95N 99+95E

- interbedded vfg SLST / tuffaceous SLST /
cherty SLST. bedding attitude: 140/74 NE

- There is locally moderate BI Hornfelsing,
and strong CaCO_3 alteration. The
 CaCO_3 can be pervasive (i.e. w/i
the strongly hornfelsed areas) or
can preferentially choose beds.

There are locally CaCO_3 blebs
|| to bedding.

- There is no apparent Sx mineralization.

- SAMPLE SBL1027

- L82+90N 99+75E

- finely bedded f.g. SLST / Tuffaceous
SLST (Tuffaceous component varies
[10-30%]).

att bedding = 156/56 NE

- The unit is v. competent / silicified.

(97+25 note dead fall waist high)

- L84+00N 100+10 E

finely bedded, f.g. black argillite,
gray f.g. SLST. There is a weak
luffaceous component to the unit

[10%] occurring as (4mm) fsp w/
SLST. Predominantly, however, the

outcrop is sedimentary.

bedding att = 130/66 NE

- There is no alteration of the outcrop
except for wk CaCO_3 along fractures.

- SAMPLE SBL1028

- AT THE Southern end of the exposure
there is an argillite unit w/ clasts
of chert and SLST subrounded [30%].

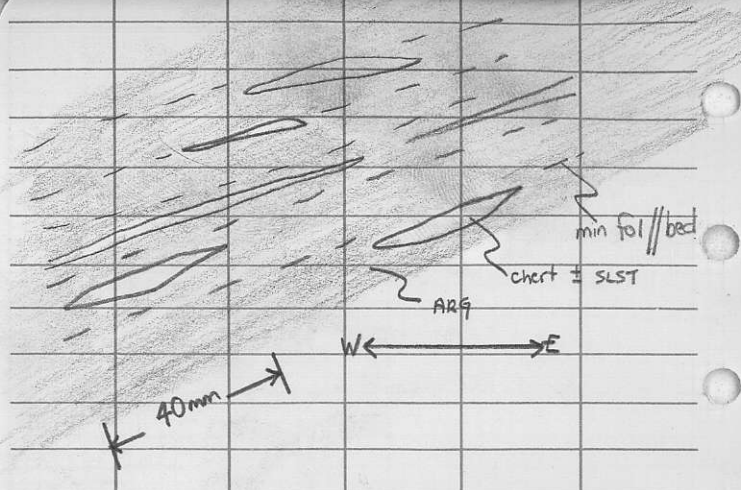
STRONG FE staining // to bedding

- SAMPLE SBT1029

- CLASTS are elongate // to bedding and
there is a weak mineral foliation

(phyllitic texture) // to bedding

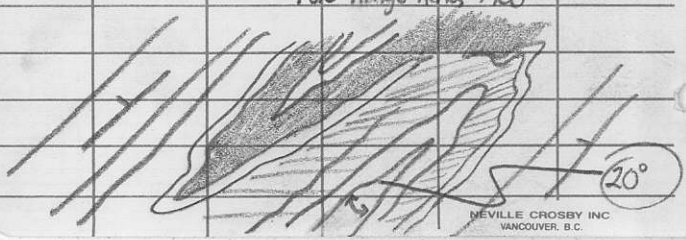
130/66 NE



L 84+00 100+45E

- well bedded argillites, E.g. SLST, c.g. SLST, cherts. Predominantly argillites and fig. SLST.
- There are well developed isoclinal micro folds w/i the unit and the development of a weak axial planar mineral foliation.

Fold Hinge trends $\rightarrow 100^\circ$



— L 85+95N 99+55E

- weakly foliated, highly Fe stained
interbedded argillites and intermediate
ash tuffs.

- TR PY, P₀

- Foliation att:

150/56 NE

- bedding att:

150/56 NE

- SAMPLE SBT1053

— FOLD AXIS trend 180°

— L 86+00N 103+40E

V. competent c.g. ϕ 3 diorite
(75% fsp, 10% ϕ 2, 15% mafics)

SAMPLE SBT1055

- L 86100N 103+65E

large angular rusty float
(scattered).

monomictic (diop),

mineralogical TR-2% PQ

TR-2% PY

2-4% CP (Frac controlled)

SAMPLE SBT1056

- L 86100N 105+25E

Subcrop - Float.

v. heavily diopside hornfelsed

gossanous unit. No primary textures.

CP TR

PQ, PY 1-3%.

SAMPLE SBT1057

Qz eye - felsic rock flow.

Rhyolite float also.

— 85+05N 105+90E
m.g. diorite - qz diorite
Sample SB1039

— 85+00N 105+00E
- m.g. msf qz diorite-granodiorite,
mafic [20-35%].

There is a weak foliation: 10°/SE.

- Locally the diorite here becomes
foliated and looks almost like
an intermediate flow.

Note - heavily drop HFIs (PO-rich (1-3%))
angular float present.

— Qz eyes [TR] are visible in more
phylic rock - this may be
a contact with the felsic volcanics.
Things are cooked up and it is
difficult to distinguish primary
textures.

Diorite / f.l. vlc. contact.

SAMPLE SB1040

- L85+00N 104+70E

Banded st. diopside HfL sed
tuffs. Pq 1-3%.

± Biotite hfls (soft brown
crystals - not sheets
curious).

SAMPLE SBL1041

- L84+65 104+25E

FLOAT

St. Diop HfLs + garnet +
Pq + CP. ± Bi HfLs.

SKARN.

No CaCO_3 . No magnetite.

SAMPLE SBL1042

Outcrop - diopside: non
mineralized

SAMPLE SBL1043

- FLOAT 2-3 / min² / SK
abundant.

Tuesday July 12, 1988
SBS(2) L84N, 85N
Don + Mike
Overcast - wet.

- L83+85N

102+60E

- green fig. well bedded intermediate ash tuffs. May be subcrop

bedding: 020/52SE

- The outcrop is strongly gossanous and primary Sx consist of [5-10%] P₀ + P_Y.
- Locally there can be wk dipside hfs.
- Sample SBL1035
- Locally there is bedding // alteration.

- L83+60N

104+10E

- dark grey m.g. Fe-rich unit at times c.g. Intr/extr. wk may be right on the contact. Locally P₂ are eudant (<1mm) [3-5%].

- There is a weak foliation developed.

alt: 130/62 NE

- Predominantly felsic ± intermediate
undifferentiated.

- SAMPLE SBL1036

- Locally dark black matrix
w/ rhyolite flows in an
altered fg. chlorite granodiorite
cataclastic texture.

Atypical of outcrop.

SBG1036

- 83+95N 104+35E

Qz-rich diorite / granodiorite.

SAMPLE SBL1037

- L84N 105+25

- well bedded dark green, mg/fg
intermediates ash tuffs.

- subcrop.

- The weathered surface is gossanous
w/ TR PY - PO to 2%

SAMPLE SBL1038

— L84+92N

101+15E

vfg light green intermediate
ash tuff. Chlorite alteration moderate.

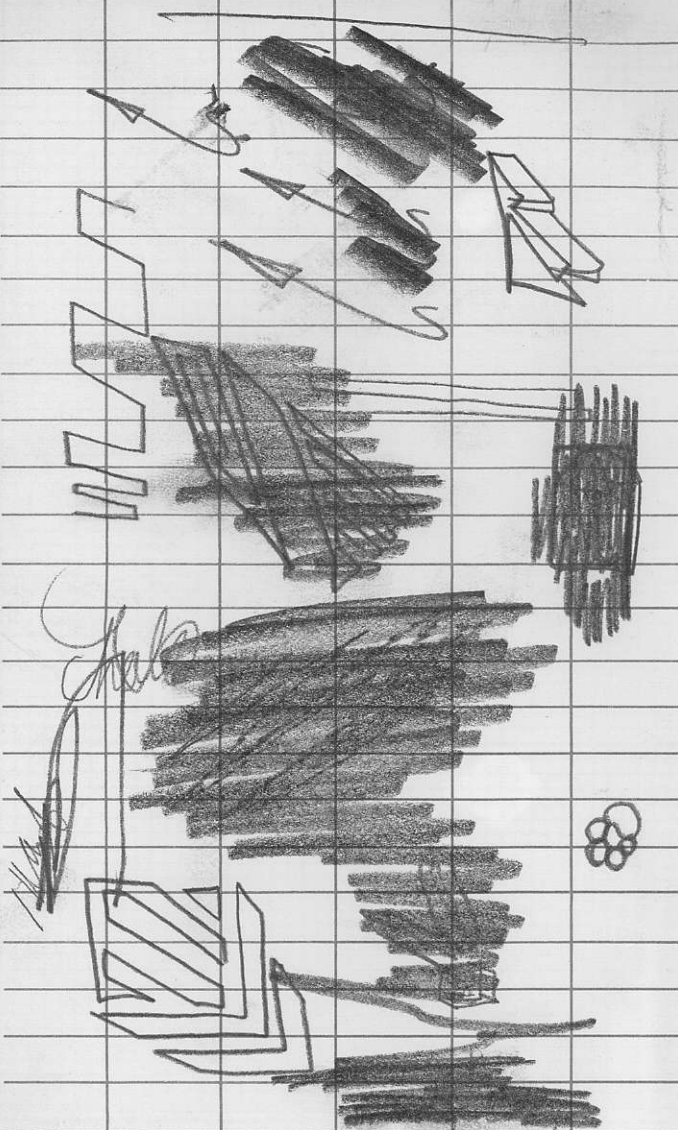
SAMPLE SBL1045

Contact w/ sed. (gossiorous)

PI

SAMPLE SBT1046

Notes green mica in 1045 ~~is~~ ^{Fuchite?}



Thursday July 14/88

SBS (2) 485N, 86

79,80 (WOBG)

M.M.

Overcast and cool

- L85+100N 100+180E

- green, fg - v.f.g. intermediate fish
tuff. Strongly bedded (white beds

0,5mm to 3mm) att: 120/41NE

- There may be a wk sedimentary
(SUS?) component.

- STRONG FE alteration of surface/gossanous.

- 1-2% PY+PX

- ± mod diopside (FIS) locally.

- SAMPLE SBL 1048

Note SBS5-005 (85+100N 100+75E)

- L85+05N 100+15E

interbedded tuffs and argillites and

siltstone sand cherts

bedding

110/50NE

There is no visible mineralization
but there is wk bedding //
E oxidation.

SAMPLE SBT1049

- L84+65N BL100100E

- interbedded SLST, tuffs, ARG,
chert. No hfs or apparent
mineralization. - bedding
is highly contorted.

- sample SBT1050

- L85+40N BL100100E

interbedded tuffs / SLST / cherts.
There is mod to wk bedding //
diopside hornfelsing.
bedding:

112/56 NE

SAMPLE SBT1051

- 104+60N 101+30E

- dark blue/green mafic volcanics, mod epidote veining, \pm mod drip hfts. There are vesicular clasts, suband [$\leq 5\%$] present.

Primary flow banding is evident

altitude: 016/70NW

- The unit shows varichitic bands and locally extremely strong drip hfts.
- Basalt flow
- SAMPLE SBL1060
- Locally rusted containing 5% rd
SAMPLE SBT1061

- L105+07N 100+93E

- finely bedded, f.g. intermediate (andesitic)
(± mafic) ash tuffs.

bedding attitude = 060/50NW

- locally there can be 5% diss PY

2-5% PO

- also locally can be st. Fe oxidation
of weathering surface.

- SAMPLE SBL1065

Saturday July 16, 1988

SBS(2) L79,80 WOBL

L105,104 WOBL

mm

Clear and warm

- L 79 N and 80 N (WOBL):

NO EXPOSURE

— Road 79+00N 103+45E (start)
23½ paces (47m) → L78.

- m.g. blue volcanics (matrix looks intermediate) but the presence of Qz eyes suggests a felsic unit.

Qz eyes ($\leq 1\text{mm}$) [1-2%].

Françoise's sample SBS5-036.

- The unit is weakly phyllitic.

altitude: 104/48 NE

- L 104N begin traverse @ 101+50E
No exposure to EOL

- L 105N begin traverse @ 106+00E
No exposure to 101+50E

- L104+50N 101+35E

- f.g. to m.g. blue andesitic
(probably) volcanic flow.

- The unit is predominantly
massive; showing no
bedding. There is a strong
Fe ox. weathering stain to the
unit and 2 to 15% PY.

- The unit varies from a
mod diopside Nf1s to strong
w/ ± epidote associated w/
fractures.

- sample SBL1059

- sample SBL1058 - continuation of rusty
unit = 101+85N 101+40E.

- The bedding is predominantly : 100/SANE

- There is also locally, strong surficial rusting.

- SAMPLE SBT1030

- Note of E extent of outcrop
(83+85 N 100+50 E)

PREVIOUS SAMPLE S855-009

- L84+40N 100+75E

- Interbedded ARGillite and fig. SUST. 110/SANE
Locally there is moderate Diopside
HFLS.

- Mineralization consists of 1-2% PY+PA

- Locally Rusty surficial weathering.

- SAMPLE SBT1032

- L84+100N 101+85

SAMPLE SBL1034

SUBCROP