

SM

CHURN
1987
FIELD
NOTES
M 580

840739

DATE	PROJECT	TRAV #	NTS #	CLAIM	LOCATION	SAMPLE #
01-May-87						
02-May-87						
03-May-87						
04-May-87						
05-May-87						
06-May-87						
07-May-87						
08-May-87						
09-May-87						
10-May-87						
11-May-87						
12-May-87						
13-May-87						
14-May-87						
15-May-87						
16-May-87						
17-May-87						
18-May-87						
19-May-87	M579	-	-	-	Vancouver → Keremees	-
20-May-87						
21-May-87	M579	-	-	-	Vancouver → Keremees	-
22-May-87	"	-	-	-	Check prop. access - get permits	-
23-May-87	"	92H/8E	SM-1	town 1, 2 + 3	check access + map roads	-
24-May-87	"	SM-2	92H/8E	Brown 2	mapping on roads	SM76-1 to 5
25-May-87	"	SM-3	92H/8E	Brown 2	mapping on roads (MM rts)	-
26-May-87	"	SM-4	92H/8E		Tour w/ LHP + MM 3 end	-
27-May-87	"	SM-5	92H/8E		Tour w/ LHP + MM - NTS ends	-
28-May-87					DAY OFF	-
29-May-87	M579	-	-	-	Vancouver office van → Keremees	-
30-May-87	"	SM-6	92H/8E		Sampling 5 end - truck flat - walk out	SM75-6 to 32
31-May-87	"				PICKING UP IN KEREMES	
01-Jun-87	M579	-	-	-	Keremees → Cache Creek	
02-Jun-87	"	-	-	-	Cache Creek → Camp → Clinton	
03-Jun-87	"	-	-	-	Camp Clinton → Camp	
04-Jun-87	"	SM-7	920/718	Queen 4 + VI	on ridge N of road	SM76-29 to 33
05-Jun-87	"	SM-8	920/718	Mint 4 + 3	Tour on ridge at E end claim	SM76-34 to 40
06-Jun-87					Churn Cr → Vancouver	
07-Jun-87					Van office to Log	
08-Jun-87					Van office	
09-Jun-87	M579	SM-9	92H/8E		Hedley tour	
10-Jun-87	M580	-	-	-	Van → Churn Cr	
11-Jun-87	M580	SM-10	920/718		Blackden tour	
12-Jun-87	"	SM-11	920/718	Smith + Mint 4	East ridge	SM76-41 to 44
13-Jun-87	"	SM-12	920/718	Mint 4 + Mint 3	valley east of East ridge	SM76-45 to 47
14-Jun-87	"	SM-13	920/718	Mint 1 + 4	1.8 km E of Crooked Creek (Basalt ridge)	SM76-48 to 53
15-Jun-87	"	SM-14	920/718	Proal, Adams, Mint 4	up Crooked Creek to East	SM76-54 to 57
16-Jun-87	"	-	-	-	Camp? Clinton → Camp	
17-Jun-87	"	SM-15	920/718	Paul, Mary, Mint 2	N of East ridge	SM76-58 to 62
18-Jun-87	"	SM-16	920/718	Boria J, Reborin	Creek from S draining into Boria	SM76-63
19-Jun-87	"	-	-	-	in camp - Accounting + geology work logs	
20-Jun-87	"	SM-17	920/718	ACE II	Property tour by LHP + MM	
21-Jun-87	"	SM-18	920/718	Queen 5 + 4, King 4, Ace J	Follow sp line from Rd (franks) to west	SM76-64
22-Jun-87						

DATE	PROJECT	TRAV #	NTS #	CLAIM	LOCATION	SAMPLE #
23-Jun-87	M580	-	-	-	Chloro - grocery run	
24-Jun-87	M580	SM-19	920/788	Queen II, IV, ACEI	down (W) from rusted can turn off.	SM7C-65
25-Jun-87						
26-Jun-87						
27-Jun-87						
28-Jun-87						
29-Jun-87						
30-Jun-87						
01-Jul-87						
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19-Jul-87						
20-Jul-87						
21-Jul-87						
22-Jul-87	M580	SM-22	920/788		Follow-up	SM7C-102+103
23-Jul-87						
24-Jul-87						
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12-Aug-87						
13-Aug-87						
14-Aug-87						

June 4/87

SM-7

11580

1/4

Churn creek or road from camp → East

SM7C-29 to 33

SM7C-29

o/c of purple weathering, green fresh surface porphyritic volcanic tephra & hornblende (minor) probably porphyritic andesite. Sample taken for reference, no evidence of hydrothermal alt.

SM 299

general area of small o/c of purple weathering porphyritic andesite.

(same as SM-29) well developed planar fabric 045/34°SE shearing.?

296

LINE A 38°30'N at 1300 m Hon

long thin str.

SM 7C/30

side hill o/c, buff weathered, buff rock w/ pale green & phenocrysts almost totally replaced by epidote distinctive from purple weathering porphyritic andesite matrix is rotted & rocks look more uniform

June 4/87 SM-7 MS80 2/4

grain size. No mafic &
buff andesite, locally vesicular,
w/ stretched vesicles + pale ground
on peak surface

SM7C-31

along some sidehill (low) ^{olive} brown
volcanic (and?) w/ sparse white
feldspar phenocrysts and occasional
quartz eyes (sampled) in
contact to the W + overlying
purple porphyritic andesite w/
plana fabric (shearing?)
067°/42°SE, olive ad. in early textured

SM7C-32

o/c on W side of gully - purple
+ green capped lapilli tuff,
matrix & frag. &. Fragments
of purple porphyritic andesite,
small lenses of tuff. Bedding
032°/28°SE

329

o/c on E side of gully, Purple, grey
green lapilli tuff. Similar to
SM-32. Some fragments up to 1m
in diameter. Fracture 288°/50°NW

1343 m

Nend Frank's place

June 4/87

SM-7

3/4

32b scattered qc on ridge grey weathered
lapilli tuff to tuff, small zones
of porphyritic andesite. Lapilli + sinter
✓ to SM-32. Increasing amount + size
of coarsely vesicular basalt float

32c scattered qc on N side of road of
brown and, a SM-31 a few
pieces of purple sand, (we are on
E-W cut + flagged - claim - line)
E end ridge trends $034^{\circ} - 054^{\circ}$

SM7C-33

FLOAT. white coarse crystalline
quartz, pale orange stain in fracture

33a rubble qc of grey-pink + green lapilli
tuff. (44 m W side of road)
(335 m in center of road)

33b vesicular basalt - subcrop (in
road 933 m) (E side of road 1003 m)
(1154 m - in road)

SM-7

June 4/87

4/4

✓ 33c pit dug by cut on w side of
road (1896 m) olive brown
sandy, volcanic (and.?) white phenocrysts

JUNE 5/87

SM-8

Y3

on knot / ridge at E end of property

SM7C-34 to 40

SM7C-34

✓ Knot of 9% at height of land, pinkish weathering rhyolite, well developed flow banding, $054^{\circ}/25^{\circ}SE$, pink + grey on fresh surface occasional quartz eyes, 1mm thick bands of pink + grey alternating, occasional feldspar phenocrysts. - FLOW BANDED RHYOLITE

34g

Pink flow banded rhyolite, flow banding $053^{\circ}/45^{\circ}SE$

SM7C-35

✓ Light to dark brown weathered fine grained, dark grey brown to black mafic volcanic - basalt. hematite casts fractures. In places basalt to sphenite with small green olivine crystals visible.

SM7C-36

zone of 9% basalt - similar to SM-35

NO M.S.

✓ Sample of 3-8mm wide, blue-white chalcidonic quartz needles, discontinuous, that cut the basalt. NO sulphates

June 5/87

SM-8

2/3

36a

purple flow banded rhyolite flow banding

✓ 013°/54°SE. Rubby zone of o/c on
side hill.

SM7C-37

FLOAT of chaledonite blue white

✓ quartz - veins of veins open - in
area of basalt o/c.

37a

Pink rhyolite, flow banding

✓ 044°/40°SE.

37b

085°/62°SE Pink flow banded rhyolite

37c

Basalt, orange to brown weathered,
dark grey to black on fresh surface.
magnetite very fine grained, o/c
along nose of ridge.

SM7C-38

Light green intensely altered porphyritic
volcanic. Remnant feldspar +

✓ quartz crystals. o/c on both adjacent
basalt, small o/c.

SM7C-39

Light to deep green intensely altered
porphyritic volcanic. similar to

June 5/67

SM-8

3/3

SM-38 . o/c on some ditched. Remnant
feldspar & quartz eyes & mafic d.
Relationship to adjacent basalt not
clear.

39a

pink rhyolite, porphyritic, flow banded.
095°/50° SW. Scattered o/c around & across
knob. minor 1-2 m wide olive brown
amygdaloidal andesitic - basaltic
flows. chlorite infilling vesicles - see
Hardspec.

SM7C-40

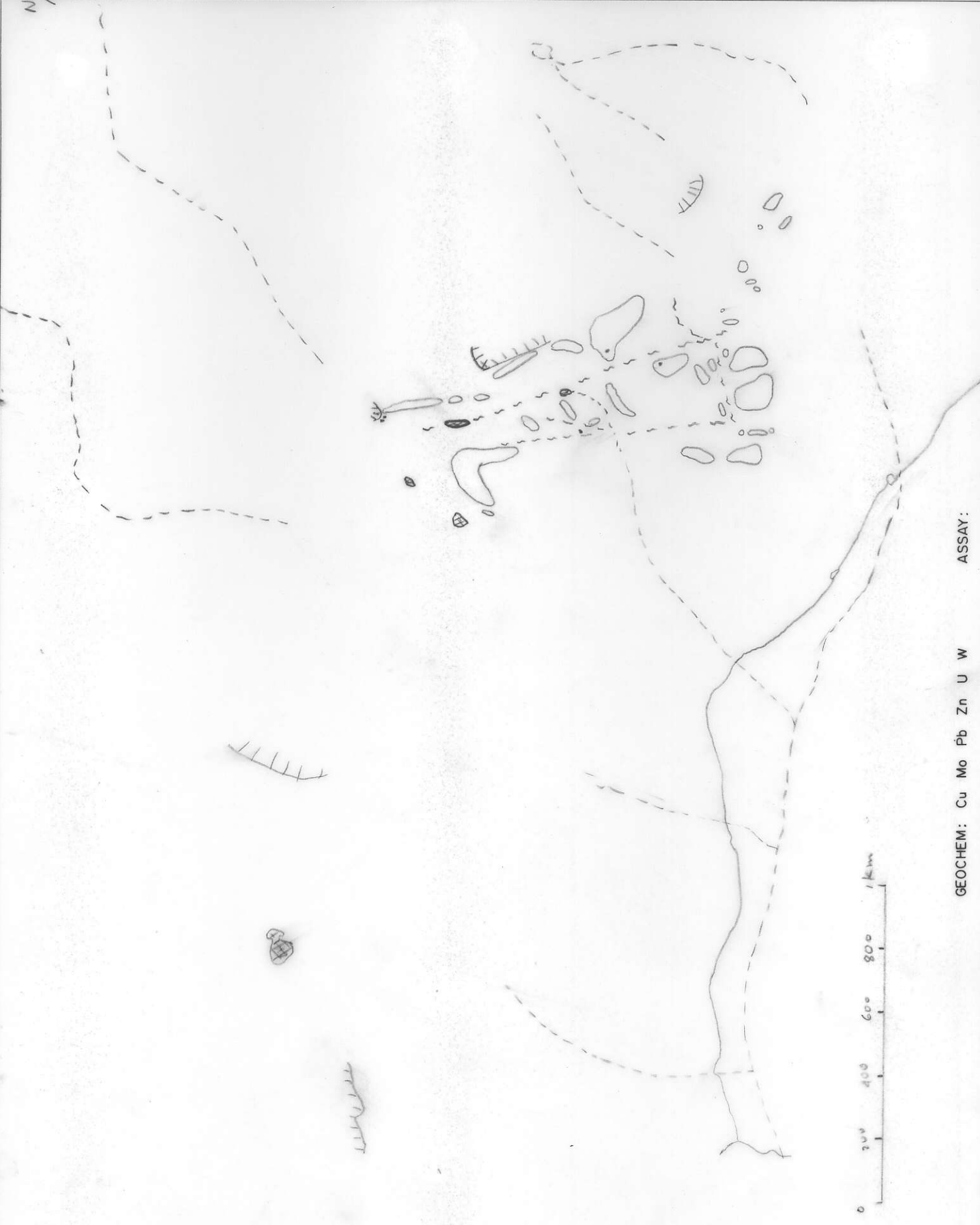
Black porphyritic, vitreous-glass,
volcanic - white feldspar phenocrysts,
w/ quartz eye. Forms small
scrapnet on hill. o/c ~ 10 m long
looks like obsidian. faint banding
occasionally visible.
scrapnet trends ~ 180°

SUMMARY: Irreg. on ridge at e end of prop.
discrete pink flow banded rhyolite
fault contact (inferred from air photo)
w/ basalt. ~~Two~~ zone of chlorite
quartz in basalt, no other vein material

W5C 02969 110 ATTITUDES 100/40 N

Project M580	NTS 9207/8	Scale 1:15840	Page 1 of 1	Traverse
Sampler SM	Location, Target (words) CHURN EAST END.		Sample Nos	
Date June 4	photo no. BC7605 -031		Cert. Nos	

- GOSSAN, MINERALS
- INTRUSIVE
- LIMESTONE DOLOMITE
- SHALE
- CHERT
- VOLCANIC
- CONGLOMERATE
- SANDSTONE SILTSTONE
- SILT X SOIL ● ROCK ■ PAN △ WATER ○
- DO NOT FORGET CONTOURS, DRAINAGE, NORTH ARROW, LAT/LONG, SAMPLE SITES, WORKINGS, TRAILS, GOSSANS, OBSERVED GEOLOGY. DEFINED — INFERRED - - - ASSUMED - - - -



GEOCHEM: Cu Mo Pb Zn U W ASSAY:

CIL 66620 - CSM
ATTITUDES
(100/40 N)

Project MS80	NTS 920748	Scale 1:15840	Page 1 of 1	Traverse SM-8
Sampler SM	Location, Target (words) CHURN - EAST YL		Sample Nos SM-34 to 40	
Date JUNE 5/87	photo no. B07605-031		Cert. Nos	

- GOSSAN MINERALS
- INTRUSIVE
- LIMESTONE DOLOMITE
- SHALE
- CHERT
- VOLCANIC
- CONGLOMERATE
- SANDSTONE SILTSTONE

DON'T FORGET CONTOURS, DRAINAGE, NORTH ARROW, LAT/LONG, SAMPLE SITES, WORKINGS, TRAILS, GOSSANS, OBSERVED GEOLOGY: DEFINED — INFERRED - - - ASSUMED - - - -



GEOCHEM: Cu Mo Pb Zn U W ASSAY:

- June 9/87

SM-9

1/2

Kedley Mine Tour

M579

Porosite rock. dikes \rightarrow silty dykes 180 m
thin tuffaceous ash

ga-px-skan diopside rock,
w E

u, bx. skan. \rightarrow timestone

E near ore.

at lower contact. ("mable ten")
from timestone \rightarrow skan (probably
was impure tuffaceous timestone)

at site. NW 120° - 40° dip.

- dykes. NW silty + dyke \cap
plunges down \cap to building
dike in same composition
"crotch" shaped ore body at
 \cap of site + dykes.

top of ore deposit

M579, w/ ga-px skan
po - some.

450 gpc. - 4 mi. w/dy,
fine sulphides
Bulldog - antiferrous.

one contact

- contact dyke

- sill

- antediluvial structures (NW plunging)

crack areas 50' thick max

sills: 2 - 100' thick (variable)

sill altⁿ - endosheran

garnet, pyroxene

one assem + po in sills.

exosheran - coarse gr, dark green
w/ garnets through it.

protolith - tuffaceous ^{dyke} limestone
good fracture, + sp

minimal retrograde ^{altⁿ} ^{phiss}

North Plate (N. side) - telluric

Hedleyite - no economic
quantities

Bulldoz (contacted) - sh sulphide

Ag, Cu, Pb, Zn, PO⁺

June 8/87 Hedley Jones 2/2

LAD, 500, 500, 500, John Bellamy
Peter Thomas

10 years. min

3,000 tons. plant cost \$65-70

million 2 year payback.

\$125 US / 103.

1P trials - drilled one high
300 - 50' of massive po.
not a hydrocarbon pool on small
area.

will recovery 90%.

South pit 5480'

at the top of the sunnyside limestone

Central pit

250 + 450 zone. of sulphide

up to 502/10.

June 11/47

SM-10

42

Blochdome ton.

Basalt - upper andesite
Dacitic flows

Flat - Dacite

lying - Rhyolite - flows &
tuffe / flow banded
autobreccia

- lower andesite, tuffe,
flows - more basic
worse volcanology

NE fault zone deep sleep
NW → tension fractures
caused by doming - dip
slip displacement

#1 + 2 vein - 2 km ±
open to depth

first found 1947 - prospector
early work 2 - 302 / 4 An

1502 / + 20 m - 500H - no
on grade intersections. !!

NP 00H - all from surface

186,000 ton 0.78 oz/ton, initial

reserves

Dec 31/86 - 272,000 ton 0.72 oz/ton Au
\$10 million total cost incl.
development

200 tons (rated) 220-230 tpd,

- mill - gravity + flotation - no
cyanide.

2 products

gravity conc → bullion

flotation conc - Arzill
pyrite, silver sulphide.

30-40 oz/ton Au

92-93% recoveries Au

75% Au recovered → gravity.

Clay is a problem

all are highly oxidized. lots of
limonite,

ore shoots 60-70 m strike length

along quartz 80-100 m height

vein 2-3 m thick

2/2
Au, Ag, pyrite, minor ep, 99, sp.
Ag - acanthite, argentite, mercuric
sulfide minor tetrahedus
Ag: Au 3-4:1 7/100:1

1880 m - lowest level to date
of known ore, presently
collected 1870 level,

E-W fault - pre ore - weakly
deflects vein.

2150 m - highest elevation of
ore.

typical alt.

shaly 1m - clay gouge
adj. sh 1-2m - bleached
low pH acid type alt. n
clay fairs.

quartz - coarse grained best
developed on EW.



- ① clay alt^c
- ② cherty weakly pervious sil^c
- ③ weak propylite w/ 5m. and less.

drift on bubble claims

- 1) As₂S₃ geochem sign. in
ore 100-5 → 1000 ppm
- 2) Hg is not worth it.
- 3) flour propylite
- 4) Au geochemists w/ soil,

Muir Basalt =

June 12/87 SM-11 1/2
N fork of Bonin at headwaters 40a.
SM7C-41 to 44

no o/c along road from dump to N
fork at headwaters of Bonin Creek.

40a (135-150m) Red flow banded rhyolite,
contorted flow bands, botryoidal textures
on exposed weathered surface quartz
vesic + feldspar. Occasional layers
intensely altered green colored rock -
(old glassy layer?) - similar to
SM-39 + 38, flow banding 035°/78° SE
Passes into red porphyritic rhyolite (qtz
& feld) with weak flow banding

nodal green
40b (217m) Block ✓ retrogressed → glassy
obsidian w/ highly mottled fractured
quartz & feldspar present, (highly
fractured) W side of stream.

237m - cross chain line (N-S)

SM7C-41 (300m) pale green weathered
300-450 - scattered o/c in (flow)

310° 0-360m

218° 0-84

120° 84-

June 12/87

SM-VI

2/3

SM 76-41 color vitreous bright olive green spherulitic
matrix w/ quartz eyes + feldspar.

41g dark grey to black fine grained basalt,
2% vesicles < 1mm, 0.5% feldspar.

41b (613m) brown weathered, dark brown,
sandy textured basalt to porphyritic
basalt. (quite variable texture to dark
emerald green w/ peculiar spheroid texture
scattered o/c (613-740m)

41c 134m 310° block around core
brown to orange weathered dark brown-
black basalt.

41d 35m, 84m 106m - brown with
basalt.

41e brown to orange weathered, dark green to
black basalt.

1% mafic X.

SM 76-42 Chelcedonic quartz veining w/

No H.S.

MINT #1 2W ON

MINT #4 2W OS

160° 0-200 m

down creek 200-381 m

180° 381-427

flogged tree

165° 427-595

contour

132° 0-

June 12/87

SM-11

3/7

SM7C-42 cont orange to brown weathered
basalt, locally labile peculiar
spheroidal weathering

42A Brown to orange weathered dark brown to
black mostly porphyritic basalt

SM7C-43 o/c of dark amyg. green vitreous mafic
volcanic, peculiar spheroidal
texture & pods of chaledonic quartz
w/ large (4-10cm) rounded spher.
l. zones of hard cherty nodules

43A Same as SM7C-43.

43B Brown weathering dark brown-black
basalt 10, 70m.

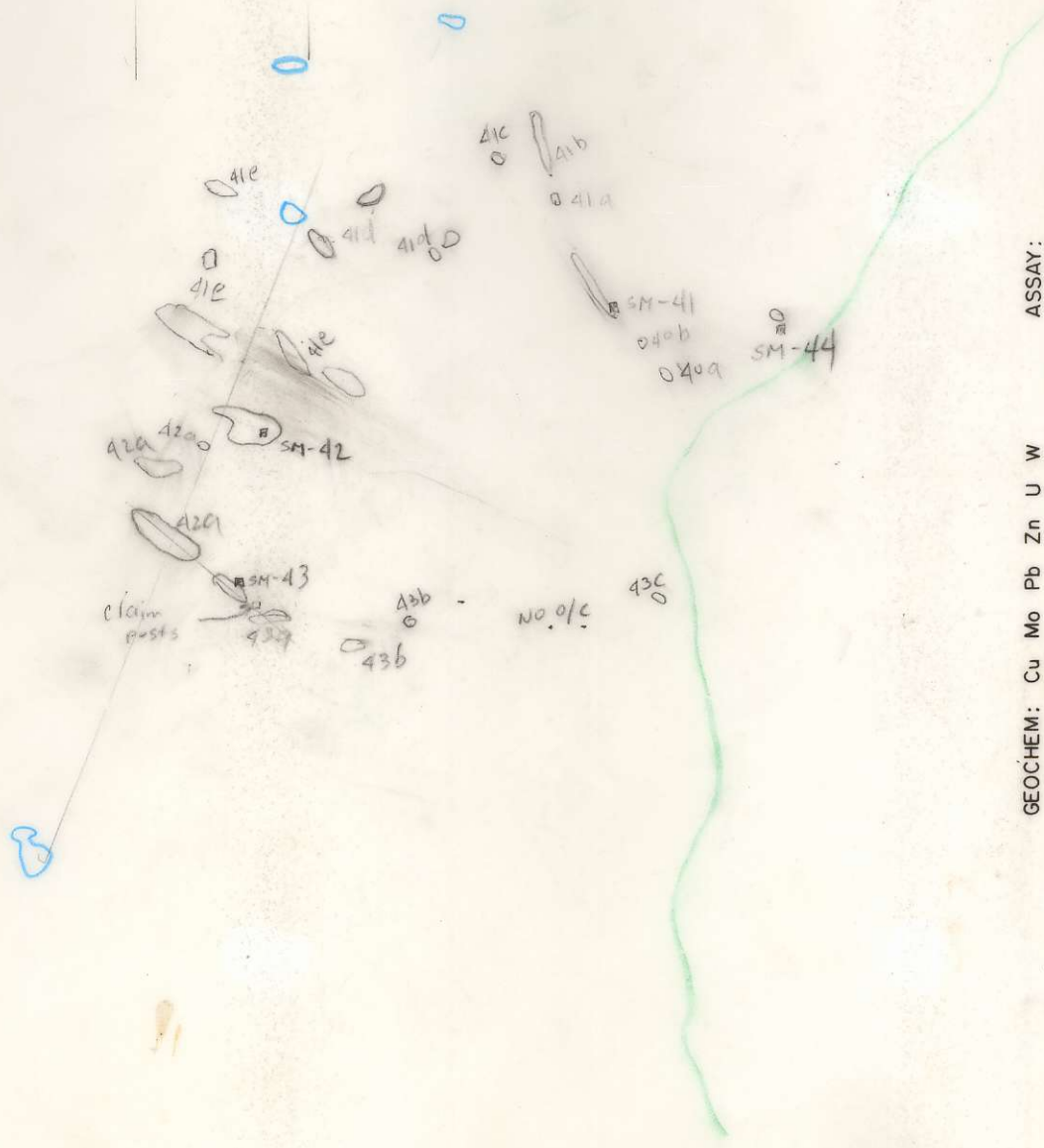
43C (595m) small bubbly o/c, buff weathered
brown sandy textured basalt,

SM7C-44 Dark brown/grey weathered, mottled
texture black-red-green glassy
volcanic.

Project M580	NTS 920/748	Scale 1:5840	Page 1 of 1	Traverse SM-17
Sampler SM	Location, Target (words)		Sample Nos SM7C-41 to 44	
Date Dec 12/87	photo no. B-7605 031		Cert. Nos 26	

- GOSSAN, MINERALS
- INTRUSIVE
- LIMESTONE, DOLOMITE
- ROCK
- SHALE
- CHERT
- VOLCANIC
- CONGLOMERATE
- SANDSTONE, SILTSTONE
- WATER
- SHALE
- CHERT
- VOLCANIC
- CONGLOMERATE
- SANDSTONE, SILTSTONE

DON'T FORGET CONTOURS, DRAINAGE, NORTH ARROW, LAT/LONG, SAMPLE SITES, WORKINGS, TRAILS, GOSSANS, OBSERVED GEOLOGY: DEFINED — INFERRED --- ASSUMED.....



GEOCHEM: Cu Mo Pb Zn U W ASSAY:

June 13/87 SM-12 1/3

Orange NW East Ridge w/ Pond

SM7C-45 to 47

left camp 7:30 arrive station 9:30

2 hrs in

449 Basalt float - brown, porphyritic

446 400m - Basalt, brown fine grained

early texture, porphyritic

SM7C-45

red + grey flow banded porphyritic rhyolite

20% white feldspar & flow bands

328°/67° NE. QC weathers grey to orange

459 52-562m QC rhyolite, red + grey flow banded

(contacted) porphyritic rhyolite, 15%

feldspar & brown to orange weathered

456 600-620m Predominantly grey (minor red

bands) porphyritic (20% feldspar)

weakly flow banded rhyolite. flow bands

260°/63° NW

45C Light grey to orange weathered dark

800m

212° 0 - 310 m

180° 310 - 350 m

120° 350 - 471 m

148° 471 - 550 m

212 550

set to 0 at ~~449~~ 449

210° - 600 → 800 m

230° 800 - 970 m

256° 970 - 1090 m

220° 1090 - 1228 m

304° 1228 - 1272 m

200° 1272 -

1626 - beginning of bore

June 13/87

5M-12

2/3

45c w/ort grey fine grained basalt. 1%
dark (mafic) f.

45d (1000-1040) light grey to red weathered
dark grey, v. fine gr. weakly porphyritic
basalt as 45c also (1050-1090)
(1171 m)

45e (1228-1272 m) grey weathered dark grey
brown basalt, brown variety has a
sandy texture. dark grey variety is
weakly porphyritic, at top of dk red
to dark purple vesicular (vesicles < 2mm)
basalt - top of basalt flow? appears slumped.

45f Purple + red flow banded porphyritic
rhyolite. 20% feldspar, conchoidal
flow banded.

45g (358 m) black weakly porphyritic basalt w/
one of red weathered strongly porphyritic +
vesicular basalt - near a flow top.
(+145 m)

45h, high cliffs exposed due to rock fall

June 13/87

SM-12

3/3

45h continue. Brown weathering, basalt & numerous vesications observed in float at base of cliff -

- dark grey to red vesiculae, basalt vesicle 1-10mm, flattened

- amygdaloidal (dark grey) basalt, chlorite & calcite amygdalites

- the rare grade of crystals, chalcidonic quartz

- sandy textured brown basalt

- dark grey porphyritic basalt

Samples taken below cliff

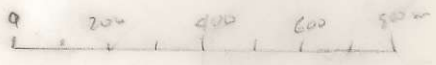
SM 70-46 light to dark blue opaline quartz 6cm in diameter found w/ red weathering, vesicular basalt

SM 70-47 chalcidony - quartz - calcite grade w/ basalt. (this is a real long shot), but the only silica I've seen today other than SM-46.

W531166620-5M
ATTITUDES
(100/40 N)

Project M580	NTS 920/748	Scale 1:15,840	Page 1 of 1	Traverse SM-12
Sampler SM	Location, Target (words) Mint 2+3		Sample Nos SM7C-45 to 47	
Date June 13/87	photo no. BC7605-30		Cert. Nos	

- GOSSAN, MINERALS
 - INTRUSIVE
 - LIMESTONE DOLOMITE
 - SILT X
 - SHALE
 - CHERT
 - WATER O
 - ROCK ■
 - PAN △
 - CONGLOMERATE
 - VOLCANIC
 - SANDSTONE SILTSTONE
- DO NOT WRITE ON OTHER SIDE OR USE COLOURS
- SPECIMEN SITE A,B,...; DO NOT WRITE ON OTHER SIDE OR USE COLOURS
- INFERRED----- ASSUMED.....
- DEFINED --- OBSERVED GEOLOGY: ---
- DON'T FORGET CONTOURS, DRAINAGE, NORTH ARROW, LAT/LONG, SAMPLE SITES, WORKINGS, TRAILS, GOSSANS, TRAILS, GOSSANS, OBSERVED GEOLOGY: DEFINED --- INFERRED----- ASSUMED.....



GEOCHEM: Cu Mo Pb Zn U W ASSAY:

June 4/87

SM-13

45

cloudy - rained this am - E2+ Ridge working W.

47a

SM 7C-48 to 53

47a (94m) Brown weathered, dark to medium emery

green, v. fine grained acidic, clear quartz
eyes, light coloured feldspar & occasional
black hornblende. feldspar weathered but
red in place.

47b (52m) acidic - lighter weathered etc. emery green

matrix - w/ bright red feldspar & a few
black hornblende & clear quartz eyes.
Texture variable from the above porphyritic
rock to somewhat dark green, bright red + brown
aphenitic rock w/ a few quartz eyes &
glassy areas47c Brown weathered black v. f. grained
porphyritic basalt to brown sandy
textured basalt, locally brecciated,
(290-315m) (371m)47d (415-471 025°, 471-550) Brown weathered
brown, porphyritic, sandy textured
basalt.

FROM Rd

019° 0-

025° 315° -

from bank at 315°

June 14/87

SM-13

25

47e (620m) Brown - orange weathering, sandy texture
brown porphyritic basalt.

47f (690-803) scattered rubble etc. of brown to orange
weathered dark brown porphyritic basalt

47g Oolite - brown resinous to dark green +
brown mottled, quartz eyes, peculiar
rough weathering - looks intensely fractured
produces light green soil.

47h Brown weathered, brown sandy textured
basalt.

47i Oolite - rough knobby weathered surface
quartz eyes, matrix glossy dark green
to brick red - ophanitic, local zones of
lapilli tuff near contact w/ basalt tuff.
E. Previously mapped as glossy rock - B?

47j Oolite - rough knobby weathered, dark
green glossy matrix w/ quartz eyes +
local zone of brick red ophanitic greenstone
& chlorite godes. (Sample to SM-43)

June 14/87

SM-13

3/5

47K brown to orange weathered dark grey
ophanitic basalt, porphyritic,

SM7C-48 clear to blue botryoidal chalcidonic quartz
vein in basalt floor. area of silencing
orange-brown weathered basalt
fine grained brown to grey, often
exhibits sandy texture, locally
exhibits peculiar spheroidal weathering.

SM7C-49 FROAS - orange weathered (limonitic) grey
white basalt breccia, angular
grey (bleached) basalt fragments w/ limonite veins
matrix of chalcidonic quartz

SM7C-50 yellow to white chalcidonic vein floor
found on ridge top in the area of brown to
orange weathered brown basalt, vesiculate
locally, it generally more fractured

50a light grey to red weathering brown
sandy textured basalt. Platy fracture.
Roads down hill into pink red weathering
vesiculate to fragmental agglomerated
basalt (basal agglomerate)

Jun 24/87

SM-13

4/5

50b

Brown sandy texture basalt

SM7C-51

white quartz float, 2% vugs lined
w/ limonite, quartz crystals, & minor
hematite, (a few bits of quartz, loc)

SM7C-52

NO H.S.

Pink grey weathering basalt, black to dark
grey, v. fine grained. Sample of bleached
brecciated basalt w/ nodular
matrix, basalt fragments as light grey
angular.

52a

Pink grey weathered basalt, fresh surface
is dark grey. Blatz fractures.

SM7C-53

FLOAT, quartz vein material

53a

Orange weathered ore on top of hill of
black & brown mottled basalt. Bleed
occurs as matrix & dark brown green
occurs as rounded spheres w/ black
matrix. matrix matrix & unmineralized
dark grey.

232°

0-

m

down nose of ridge

June 14/87

SM-13

5/5

53b Platy fractured
sandy textured brown basalt,
weathers a pink-grey.

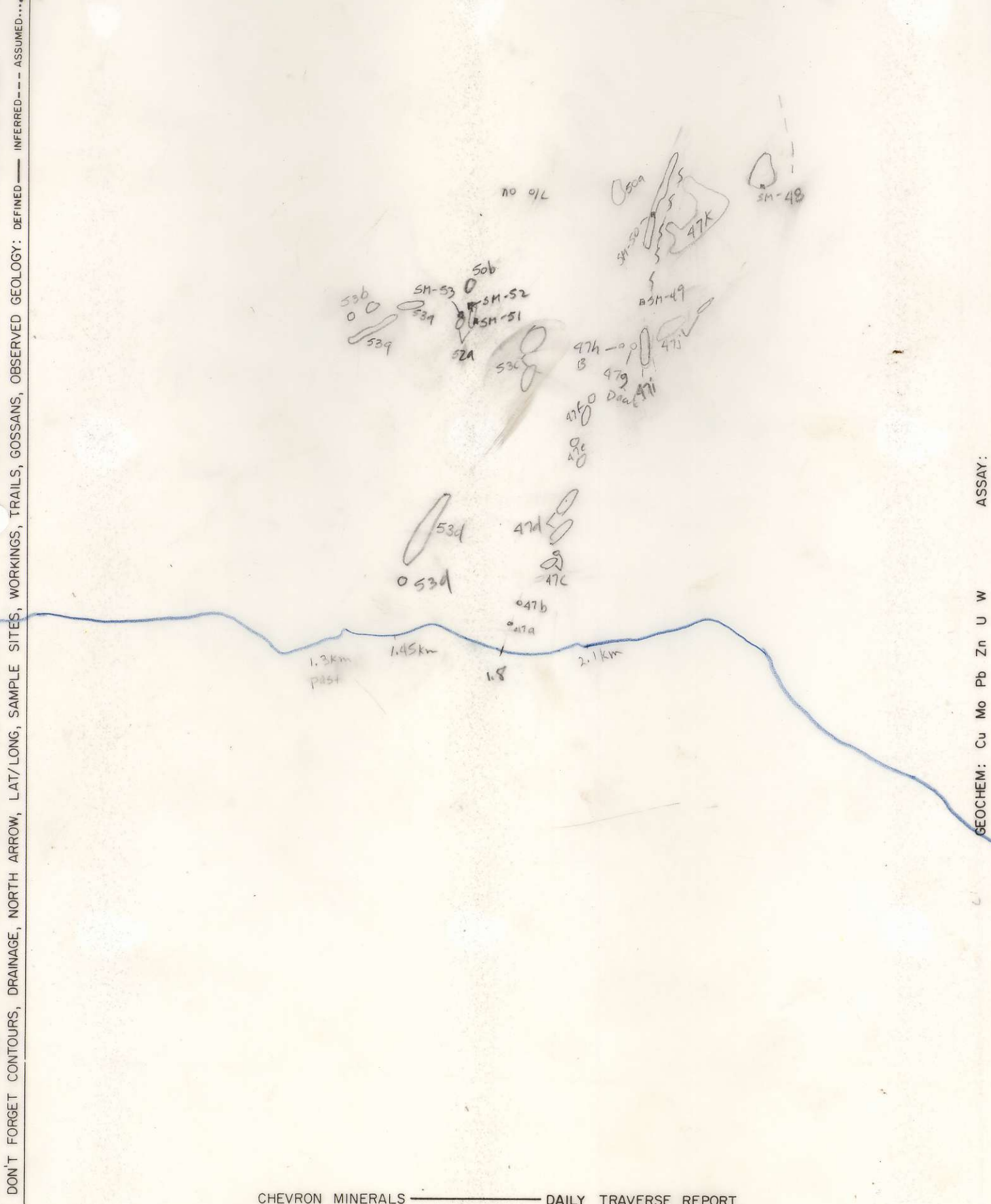
53c brown to orange weathred brown fine
grained sandy textured basalt

53d pink-grey weathred, brown sandy textured
basalt, Platy fractured
(300-532 m down ridge)
(585-613 m)

CILL 6662a - CSM ATTITUDES (100/40 N)

Project M580	NTS 920/748	Scale 1:15,840	Page 1 of 1	Traverse SM-13
Sampler SM	Location, Target (words)		Sample Nos SM7C-48 to 53	
Date June 14/87	photo no. BC7605-032		Cert. Nos	

GLOSSAN, MINERALS
 INTRUSIVE
 LIMESTONE DOLOMITE
 SILT X SOIL ● ROCK ■ PAN △ WATER ○
 SHALE
 CHERT
 VOLCANIC
 CONGLOMERATE
 SANDSTONE SILTSTONE
 SPECIMEN SITE A, B, ...; DO NOT WRITE ON OTHER SIDE OR USE COLOURS
 INFERRED --- ASSUMED...



June 15/87

SM-14

Y4

standing at creek

53c

SM7C-54 to 57

53c (87-99 m) agglomerate, slight green weather
green coarse grained matrix (60%)
angular fragments (40%) of brown,
gray, buff, red green volcanic
rock. fragments range from 1 mm to
20 cm. Jaws upward gradually.
bedding $010^{\circ}/28^{\circ}SE$

53d. o/c in creek. aggl. as above in contact w/
+ overlying brown weathered, fine grained
basalt. contact $\sim 105^{\circ}/25^{\circ}SW$
(120-174 m contact = 12 km)

53e (230-250^{ft} N side) Brown med.-fine grained
sandy textured basalt

57/m LCP

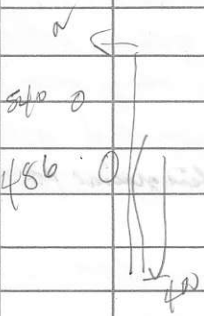
BORINI, BORINI

cut to 0 at Δ Green L.

gully 370

371m - in open area (st. 10) swamp.

0250 371 → ~500m.



JUNE 15/87

SM-14

2/4

53 f 400 - 552 m o/c on S side valley
 Cliff forming o/c of brown to orange weathered
 basalt. Varies from platy fractured, brown
 sandy textured basalt to mottled brown
 + grey sandy textured basalt to massive
 porphyritic basalt w/ quartz, feldsp +
 hornblende phenocrysts.

53 g brick red weathering agglomeratic basalt to
 brown weathering fine grained sandy textured
 grey basalt.

53 h Brown sandy textured basalt to porphyritic
 (feldsp, hornblende) basalt. so on N
 on N slope of gully.

53 i #90 - m) cliff forming o/c of grey
 weathered grey basalt - partial hornblende
 on fracture, large talus slope
 beneath cliffs.

SM70-54 about in talus of brick red to green
 (650 m) highly altered agglomeratic basalt,
 green stain (too dark for malachite) coats
 much of the sample

25

1000

1591

June 15/87 SM-14

3/4

SM7C-55

FLOAT - quartz vein material, peccode
bleached vol. fragments present,
Looks like Blockdome stuff.

SM7C-56

FRONT of chalcidonic vein melior
white to bluish, some quartz crystals
float occurs over o/c of brown with
ring dark grey porphyritic basalt,
zone of row lying o/c over brown
set to 0 at the o/c (ward)

56a

(80-136) Basalt, brown weathered
dark grey porphyritic, locally agglomeratic

SM7C-57

(191-220) o/c of Basalt flow fine
grained, grey, porphyritic, agglomeratic
flow tops present. bedding ~ 060°/37°SE.
sample of chalcidonic to quartz-calcite
vein found in o/c. veins are 1-5mm
wide + trend 158°/67°SW \approx 135°/67°SW

57a

brown weathering, dark grey +
light brown mottled, weakly
resolute, basalt.

at least set to 0

0980 → hills to show.

0120 0 - m

June 15/87

SM-14

4/4

57b

dc - cliffr. brown weathering
dark grey basalt

57c

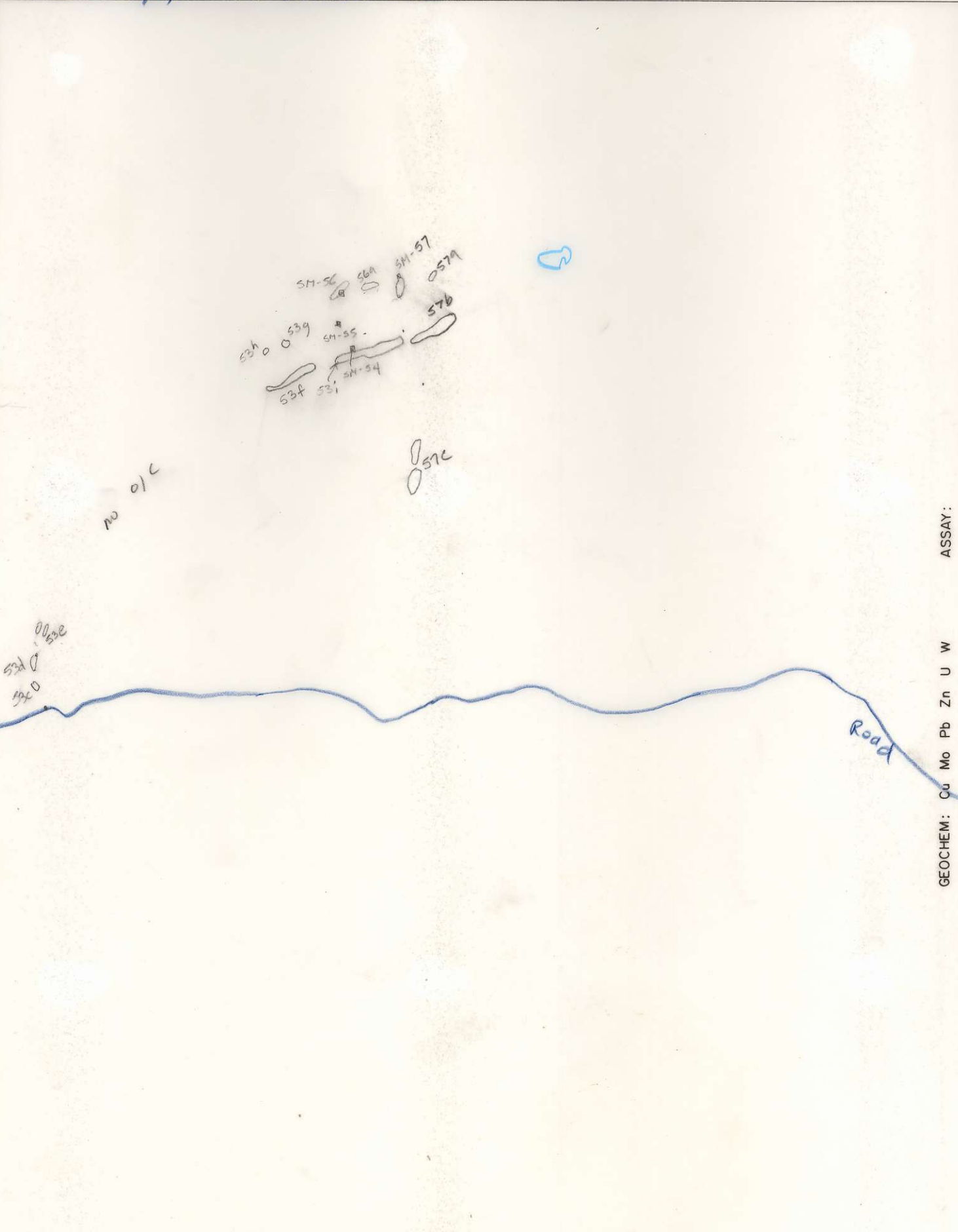
(80-160 160-280 w) brown weathering
orange red, brown sandy textured
(coarse-fine grained) basalt

Project M580	NTS 9201748	Scale 1:15,840	Page 1 of 1	Traverse SM-14
Sampler SM	Location, Target (words) Ridge N of Borth Cr.		Sample Nos SM7C-54 to 57	
Date June 15/87	photo no. BC7605-032		Cert. Nos	

- GOSSAN, MINERALS
- INTRUSIVE
- SILT x
- LIMESTONE DOLOMITE
- ROCK ■
- SHALE
- PAN △
- WATER ○
- CHERT
- VOLCANIC
- CONGLOMERATE
- SANDSTONE SILTSTONE

SPECIMEN SITE A, B, ...; DO NOT WRITE ON OTHER SIDE OR USE COLOURS

DON'T FORGET CONTOURS, DRAINAGE, NORTH ARROW, LAT/LONG, SAMPLE SITES, WORKINGS, TRAILS, GOSSANS, OBSERVED GEOLOGY: DEFINED — INFERRED - - - ASSUMED - - - -



GEOCHEM: Cu Mo Pb Zn U W ASSAY:

June 17/87

SM-15

Y4

57d

SM7C-58 #D62

SM7C-58

chip sample over 2m across nose of
rhyolite % (MMA mapped this)
intensely brecciated & fractured
purple & buff rhyolite, very siliceous
ironite & yellow stain on fractures

SM7P-59

chip sample over 2m across
nose of % (E of SM-58) Purple grey &
beige, silicified brecciated &
fractured rhyolite.

59a

bird red, porphyritic, flow-banded
rhyolite, 022 γ 116° SE, waxy texture
% on road bank.

SM7C-60

intensely altered, bleached & mechanically
weathered pale yellow-green rock
Fresh looking cobble in a purple
quartz eye dacite - porphyritic
(biotite & feldspar &) alt. Dacite

193° 0-254

084° 0-150

275° 0-115

115-144 (60h) up road of ridge

0- across base of cliffs



June 17/87

SM-15

2/4

60c (81-94m) along nose of ridge basalt,
fine grained, platy fractured.

60d brown weathered, porphyritic basalt, light grey

60e (0- m) cleft. abundant talus downslope,
basalt, brown mottled to sandy textured,
regular platy fracture - 033°/15° SE,

60f - small qc of rough knobby weathered glossy
porphyritic volcanic, white feldspar δ , brown,
glossy matrix. (30 m)

60g - small scattered qc along this trend - basalt.
(93m) fine grained black to brown vesiculate basalt.

60h - fine grained purple brown basalt to
coarsely porphyritic at base of knob -
feldspar δ - and some vesicles

60i - cleft - of orange weathered, brown \rightarrow
grey porphyritic basalt. Phenocrysts of
feldspar up to 8mm in length

220° 0-150

198° 0-225 from clear

160° 0-147

~~149~~ - 211

follow along edge

211m - Mint #1 2NOW

Mint #2 2NOE

June 17/87

SM-15

3/4

SM7C-61

NO H/S.

PLAT - limonite coated sample of moderately fractured basalt + botryoidal chalcidony w/ staining. one chalcidony cavity lined w/ druse quartz crystals.

61a (0, 50-60 m) fine grained black, porphyritic basalt.

61b (100-223) brown weathered, highly vesicular, basic agglomerate + vesicular basalt. locally vesicular (8mm) porphyritic (feldspar)

61c (149m) brown fine grained basalt, orange weathered rim, platy fracture.

61d (208m) whitish weathering, agglomerate - produces white soil. Black fresh matrix - light purple green on weathered surfaces. contains some feldspar phenocrysts in matrix. fragments are highly altered fine grained rock (?) buff to yellow to red. 1mm - 2cm in diameter. Very cherty rock.

297 - 2nd

set 0 at 424in - (SM-62)

June 17/87

SM-15

4/4

61e - white weathered intensely bleached, pale purple to
 green agglomerate w/ white bleached fragments matrix
 some black spherulitic fragments also, local
 zones of unfragmented green volcanic w/ quartz eyes.
 Is this agglomerate really a dacitic lapilli tuff?

61f (297) N bank, green "agglomerate"
 same as 61e. (Dacitic + dacitic lapilli tuff)

SM7C-62 abrad on S side of stream near bend -
 white weathering pale green "agglomerate"
 - Pale green matrix w/ quartz eyes + fragments
 2 mm - 2 cm of black green white + rare
 fine grained. vol. (Dacitic lapilli tuff?)

62a (294m) rough knobby weathered
 dark green, glassy volcanic w/ feldspar
 phenocrysts + quartz eyes (unmolten matrix?)

Project 17580	NTS 920/718	Scale 1:15,840	Page 1 of 1	Traverse 57-15
Sampler SM	Location, Target (words)		Sample Nos SM7C-58 to 62	
Date June 17/87	photo no. BC7586-0179		Cert. Nos	

- GOSSAN, MINERALS
- INTRUSIVE
- LIMESTONE DOLOMITE
- SHALE
- CHERT
- SHALE
- ROCK
- SOIL
- SILT
- WATER
- CONGLOMERATE
- VOLCANIC
- SANDSTONE SILTSTONE

DO NOT FORGET CONTOURS, DRAINAGE, NORTH ARROW, LAT/LONG, SAMPLE SITES, WORKINGS, TRAILS, GOSSANS, OBSERVED GEOLOGY: DEFINED --- INFERRED --- ASSUMED.....
SPECIMEN SITE A,B,...; DO NOT WRITE ON OTHER SIDE OR USE COLOURS



June 18/87 SM-14

74

up creek draining N into Boni (N of Junction Creek)

625 SM7C-63

626 (400-460m) on N side bank, weathered
into numerous spheres 20-50cm in
diameter - very chaotic looking. black,
glossy porphyritic (feldspar &) volcanic
stone as MM sample downstream, fresh
surface breaks extremely uneven. orange
weathered surface (like basalt)

SM7C-63 - cliffs of basalt, black, locally vesicular
/ sample of chalcedony vein in basalt,
white to translucent brown, found on
top of ridge as float, but very local
basalt grades so into black glossy red
mud, bedding $343^{\circ}/40^{\circ}$ NE glassy
matrix & rounded brown spheres
3-4mm in diameter

63a, cliffs of brown weathered black columnar
jointed basalt. feldspar phenocrysts.

63b (0-210) north N-S trending ridge of

0 m at MM sample.

859m set to 0

138° 0-662

from 517-63 → knot

132° 0-140

116 gully

260

50-210
from 323 set to 0

165° 0-310

170m - 00met3 4N 3W

(LCP- MIDAS# 34N 4W 100'

MIDAS 3A 5E

C. JUMP 1 6N 2W

MIDAS² 3S 4W

360° from 63C 0- m

167° 310-

June 18/87

SM-16

2/4

63b cont well fractured brown weathering
fine grained black basalt. (at 172
338° to 63a peak.) weakly porphyritic
feldspar phenocrysts. columnar jointing

63c (44m - 5mrd opening) Small ex brown-red
weathering black vesicular basalt. Vesicle
stretched + occasionally infilled w/

63d (73 - 170 'Nend opening) brown
weathering black vesicular basalt, some
stretched vesicles. (190-200)

63e (230-270m) brown weathered black vesicular
basalt, vesicle stretched + occasionally
infilled. (40-50)

63f (80-160) vesicular basalt on the W
edge of ore + fine grained basalt w/
well developed platy fracture &
- 000°/35°E

278m Borin II 55 OE

Borin I 55 OW

June 18/87

SM-16

3/4

63g (317) brown basalt, orange sink

63h (530-540) ^{known to} orange weathered brown to black
basalt, weakly porphyritic, columnar
jointed (672m)

696m Borin I 45 OW

1000m at stream

1132m Borin I 35 OW

1572m Borin I 25 OW

1847m wavy creek

1966m Borin Creek

2040m Borin I 15 OW

2088m road

claim/line on road to crooked creek (get to c)
is 152 m

63i (550-900) light weathered pale green
"agglomerate" - actually look like
Dacite tuff to lapilli tuff, pale green
matrix with quartz eyes, contains
2mm - 2cm size multicolored volcanic
fragments. At western end of eye look
more agglomeratic. Sharp contact at

• June 18/87 SM-16

d/4

63i with brown weathered platy fracture
✓ fine grained black basalt. contact
226°/68° NW (90-104m)

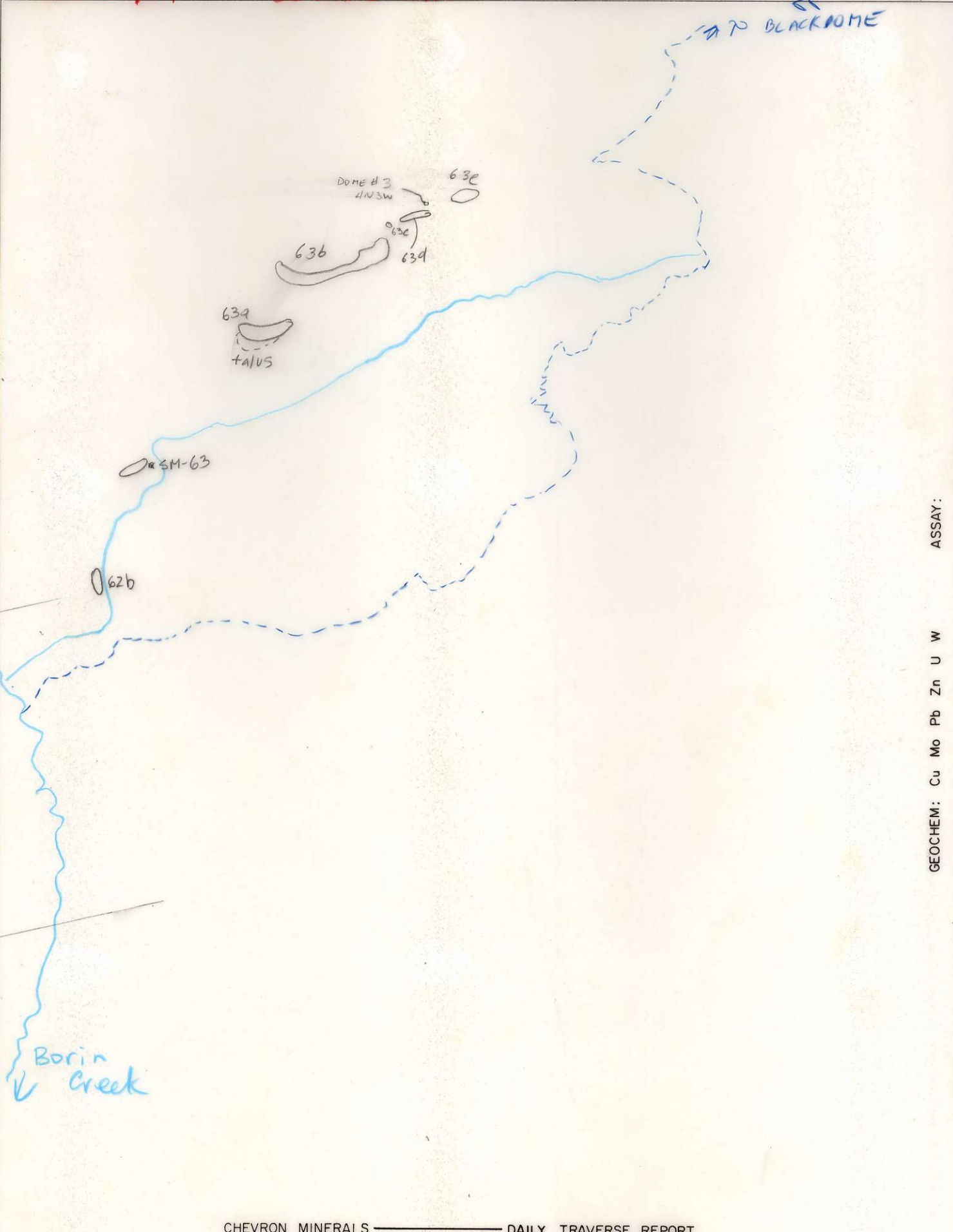
Summary - abundant dark top o/c of basalt.
Range from fine grained black to
vesiculate, no thin bed. a
few o/c of glossy porphyritic
volcanic

CIL 66620-CSM
ATTITUDES
(100/40 N)

Project M580	NTS 920/748	Scale 1:15840	Page 1 of 1	Traverse SM-16
Sampler SM	Location, Target (words)		Sample Nos SM7C-63	
Date June 18/87	photo no. BC7583-0110		Cert. Nos	

- GOSSAN, MINERALS
- INTRUSIVE
- LIMESTONE, DOLOMITE
- ROCK
- SHALE
- CHERT
- VOLCANIC
- CONGLOMERATE
- SANDSTONE, SILTSTONE

DON'T FORGET CONTOURS, DRAINAGE, NORTH ARROW, LAT/LONG, SAMPLE SITES, WORKINGS, TRAILS, GOSSANS, OBSERVED GEOLOGY: DEFINED — INFERRED - - - ASSUMED - - - -



GEOCHEM: Cu Mo Pb Zn U W ASSAY:

June 20/87

SM-17

Y1

63j w/ 2 norm. w platen

~~SMTC = 64 to~~

63j: light brown weathered conglomerate,
rounded clasts 1-15cm in diameter of
volcanics, coarse sandy matrix - grey
to buff colored

63k. (960m 228° from Knot) abundant
float (close to o/c) of orange weathered
white & black, coarse grained intrusive
granodiorite.

Project M580	NTS 920/748	Scale 1:15,840	Page 1 of 1	Traverse SM-17
Sampler SM	Location, Target (words)		Sample Nos	
Date JUNE 20/87	photo no. BC7670-006		Cert. Nos	

GOSSAN MINERALS
 INTRUSIVE
 LIMESTONE DOLOMITE
 SHALE
 CHERT
 WATER
 ROCK
 SILT
 SOIL
 PAN
 VOLCANIC
 CONGLOMERATE
 SANDSTONE SILTSTONE
 SPECIMEN SITE A, B, ...; DO NOT WRITE ON OTHER SIDE OR USE COLOURS
 DON'T FORGET CONTOURS, DRAINAGE, NORTH ARROW, LAT/LONG, SAMPLE SITES, WORKINGS, TRAILS, GOSSANS, OBSERVED GEOLOGY: DEFINED — INFERRED - - - ASSUMED - - -



GEOCHEM: Cu Mo Pb Zn U W ASSAY:

June 21/87

SM-18

Yr

63l trav from road (Franks) W + walk home.

SM7C-64/10

63l - small rubble o/c of brown weathered fine grained black porphyritic basalt. o/c exhibits peculiar spheroidal weathering.

63m Brown weathered black basalt w/ brown mottles, porphyritic, w/ feldspar & - in places (10-80, 50, 235-270) columnar jointing is visible

63n lichen covered, brown weathered dark brown to black fine grained basalt, small o/c. locally contains brown mottles.

SM7C-64 (168-170) o/c along edge of ridge E of sharp N-S gully - brown weathering black glossy volcanic with light brown feldspar phenocrysts ^{+ quartz eyes}. Sample of highly polished glossy volcanic - pale green weathered rock w/ feldspar phenocrysts + quartz eyes, clear to white chalcedony veins throughout the rock.

646 m - hit trail - follow it N +
 set to 0 m

49 m head down gully $\sim 270^\circ$

300 m - head NORTH

N (360°) 300 - m

on trail at 644 (420 m) set to

525 m - head E

727 m - cross stream & top.

936 m - dry creek.

June 21/87

SM-18

2/✓

64a light orange brown weathered black, very fine grained, basalt, porphyritic (1% phenocrysts of feldspar ≈ 1 mm)

64b - (72m) light brown weathering sandy colored & textured, mottled and/basaltic sparse feldspar phenocrysts ($\approx 0.5\%$)

64c (760m) sandy textured and/basalt similar to 64b but with mottled texture.

64d (420m NN along trail) occlude roots of overturned tree. Brown weathered, dark brown, fine grained, magnetic basalt. Ironite coats fractures - porphyritic

64e (136m) on N bank of dry creek. Brown weathered dark grey to black basalt + irregular weathered basaltic agglomerate.

WSD-0299991110
ATTITUDES
(100/40 N)

Project MS80	NTS 920/742	Scale 1:15,840	Page 1 of 1	Traverse SM-18
Sampler SM	Location, Target (words) CHURN		Sample Nos SM7C-64	
Date June 21/87	photo no. BC7605-036		Cert. Nos	

GOSSAN, MINERALS
 INTRUSIVE
 LIMESTONE DOLOMITE
 SHALE
 CHERT
 VOLCANIC
 CONGLOMERATE
 SANDSTONE SILTSTONE
 SILT X SOIL ● ROCK ■ PAN △ WATER O
 SPECIMEN SITE A,B,...; DO NOT WRITE ON OTHER SIDE OR USE COLOURS
 DON'T FORGET CONTOURS, DRAINAGE, NORTH ARROW, LAT/LONG, SAMPLE SITES, WORKINGS, TRAILS, GOSSANS, OBSERVED GEOLOGY: DEFINED — INFERRED --- ASSUMED....



64c
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GEOCHEM: Cu Mo Pb Zn U W ASSAY:

June 24 187

SM-19

4/3

64f.

SM 70-65+

64f area of extensive Vesicular Basalt float.
minor andesite lapilli tuff float.

64g (176-196m) (135m 238°) open
rounded ridge top, scattered rubble
9% of grey to pink to red porphyritic
andesite, 15% white feldspar phenocrysts,
well formed laths to 5mm in length,
1% quartz eyes (clear) and 2%
black euhedral biotite phenocrysts.
Red andesite is more weathered &
biotite ore maroon coloured in the
rock. some 9% beneath overture rather
at 432m + 470m

64h (500m) purple + green andesite
lapilli tuff.

64i (580m) thick covered grey-green porphyritic
andesite w/ feldspar & occasional clear
quartz eye, + small (<2mm) hornblende.
magnetic blebs (<1mm) occur in this andesite

270°	0 m - 184	
330	184 - 264	Set too
227°	0 - 100	
327°	100 - 196	
196m <u>LCP</u>		
Queen II	55 4E	tag 75623
Queen III	? 4E	tag 85282
Queen IV	5N 4E	tag 85281
(all Queen IV tag 85281 nailed to this post!!!)		
Queen I	5N 4W	tag 85280
(all Queen I tags 85280 nailed to this post!)		
Queen III	55 4W	tag 81916
Queen VII	5N 4E	tag 75622
(above clean line at 349m)		
210°	349 m - 388	
250°	388 m - 831	
180°	831 m - 860	
250°	860 m - 920	
227°	920 m - 993	set too
270°	0 m - 265	
22	265 - 450	Parallel road

2700 450 -

June 24/87

SM-19

2/3

SM7C-65

o/c exposed by overturned tree
Buff weathered (produces a light
brown to buff soil) porphyritic andesite
(phenocrysts of feldspar, and quartz),
lopilli tuff (627m)

65a (733m) o/c on hillsides towards 340°
buff weathered light grey andesite
tuff.
752m - gully

65b (860m) andesite, lopilli tuff - purple to
green in colour

27m - N-S gully

65c (115m) green to purple andesite, lopilli
tuff.

65d (165m) green to purple weathered porphyritic
andesite, (same as 64g)

65e (490m) green - purple andesite
lopilli tuff

June 24/87

SM-19

3/3

65f (790m) green andesite top of cliff.

65g (1147m) abundant float of basalts
vesicular basalt, abrupt in soil
colour across gully from very light
buff to dark brown.

July 22/87

SM-27

1/3

Churn Creek follow-up w/ T.Z.

follow up SB samples JB7C-413 to 422.

fragments in soil hole described below:

* T27C-440 - at site of JB7C-418

rounded float of highly altered basalt
w/ messy rusty green matrix
(similar to blackstone vein material)

T27C-441 red basalt - black vesicles, basalt
frag. from top of sample,

T27C-442 (JB7C-417) brown/black mottled basalt,

T27C-443 highly altered (lemonites) f. gr.
volcanic frag. (rounded)

T27C-444 (JB7C-416) porphyritic + some vesicular
basalt

T27C-445 vesicular basalt, porphyritic andesite

T27C-446 (JB7C-415) sandy textured basalt
porphyritic andesite

TZTC-447: red porphyritic basalt.

TZTC-448 (JBTC-414) glossy black volcanic
andesite (porphyritic) + early textured basalt

TZTC-449 olivine basalt, basalt, andesite, logpile 1/2

*TZTC-450 (JBTC-413) vesicular basalt,
rusty quartz vein nodules

TZTC-451 andesite, basalt

*TZTC-452 (JBTC-412) andesite quartz vein

TZTC-453 Basalt, andesite, highly altered
white volcanic. (10m)

100m $\approx 30^\circ$ from TZTC-452 to 453

TZTC-454 andesite, basalt, diorite, rhyolite
(50m)

TZTC-455 (100m) andesite

TZTC-456 (150m) limonite coated black
glossy volcanic, porphyritic

SM-27

July 24/81

2/27

no o/c. thick cover of moss + dead trees

TZTC-457 (200m) vesicular basalt,

TZTC-458 (250m) vesicular basalt, andesite,
sandy textured basalt,

SM 1015 (280m) o/c! of black glassy, por-
phyritic volcanic - obsidian, 1-2m
long feldspar.

* TZTC-459 (300m) vesicular basalt andesite,
andesite lapillituff, quartz, rhyolite,
rhyolite,

TZTC-460 (350m) N. end of road, andesite

TZTC-461 (400m) (lost 38m (1 to road)) quartz

SM 70-102 float at 400m on W side of road
highly rusty, light grey fine grained
volcanic, highly fractured, small
chalcocite stringers,

54-27

July 2/87

3/3

SH7C-103 FLOOR from site of JB7C-418

T27C-440 - quartz vein floor
 looks like blackstone vein, limestone
 occasional druse cavity, intensely
 etched fragments of wall rock w/
 vein.

4N from JB7C-418)

T27C-462 (25m) basalt sandstone,

T27C-463 (50m) JB7C-419 andesite, andesite
 lapillituff, basalt.

T27C-464 (75m) andesite, rhyolite

T27C-465 (100m) JB7C-420 basalt andesite

T27C-466 (125m) basalt, andesite.

T27C-467 (150m) JB7C-421 ^{basalt,} andesite, clayalt. sdc.

T27C-468 (175m) vesicular basalt, andesite.

T27C-469 (200m) JB7C-422, granodiorite, andesite
 basalt.