



896466

MARK BURTON



S 360
FIELD BOOK

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Mark Burrowes, 1977

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THE PAPER IN THIS BOOK IS A HIGH WATERPROOF PAPER AND LITHOGRAPHED WITH WATERPROOF INK.			
MADE IN CANADA			

No. TRENCH LINES (N-S)
 Date June 11 Page 1

TRENCH-bearing 345° to clearing from
 microwave. 205° from clearing base $\pm 250'$.

STATION	DIST. FROM TRENCH TOP	DISCUSSION
A1 ✓ ✓ sample	350'	Salicious, light green mottled with darker green specks. Gray-green in some areas - possibly banded. Pyrite specks throughout rock. - cherty, fragmental? on same outcrop.
A2 ✓	525'	- same as above but darker green.
A3 ✓	630'	- same as above - outcrop 100' in N-S direction, extending east to next trench
	630' → 1400'	- <u>no</u> outcrop.

TRENCH - 2 trenches east of previous.

STATION	DIST. FROM MICROWAVE	DESCRIPTION
A4 ✓	2000'	- limestone with lapilli sized fragments. light green mottled with darker green.
A5 ✓	1950'	- green, fragmental, calcareous sandstone.
A6 ✓	1850'	- dark, striated, limestone. Light coloured on weathered surface.
A7 ✓	1750'	- mottled green with lapilli-sized fragments.
✓ A8 →	1400' →	fine, even-grained, silicious, dark green.
Δ 10	1200'	
A11 ✓	1200' → 800'	- mottled green, silicious small (5 mm) fragments.
	800' → 0'	- <u>not</u> mapped.

RB 1 (S → N)

STATION DISTANCE

A12 ✓ 620' - massive silicious, mottled-green andesite. Minor pyrite.
 (sample) Outcrop on east side of trench - 620' from road.

RB 2 (N → S)

A13 300' - same as above. Outcrop along trench running for ~ 100'. 300' from east-west base line.

No. TRENCHES

Date Page 4

NO OUTCROP

- Trenches running N.E. of summit. (1 pace ~ 3 ft.)

[M.B. - 1] N → S

Δ 14 - 175 paces from road.

sample 12 - ?

Δ 15 - 215 paces from road.

sample 13 - reacts strongly with HCl.

- light gray color - shiny in sunlight - granular.

- outcrop lies along a trench running at 130° and another outcrop lies just south of trench.

- definite bands in the marble with an apparent strike of 60° (dipping steeply)

Δ 16 - 720 paces. - outcrop appears at sample 14 edge of clearing near top of

" 15 trench and continues thru clearing

- west of trench is outcrop of light-colored chert unit. (sample 14)

- east of trench lies gritty-pebbly limestone striking at 80°, dipping

steeply to the south (30°) interbedded
in dark cherty unit. (samples 15 & 15A)

[M.F.-2] (S \rightarrow N)

A17 - First outcrop appears 100'
before road & continues to
sample road. - Basalt.

- traverse along road in easterly
direction from trenches.

A18 | light-weight, light colored, pumice
sample | like groundmass with many small
16 | vesicles. Cleavage dipping 30° to
the north-east. No visible phenocrysts.

- continuation of trenches traversed
on June 17, from road due north.
(N.E. of summit)

A19 - outcrop along trench, begin-
ning at road extending 100'
north.

- dark black, fine-grained
minor pyrite, no obvious pheno-
crysts, traces of crust. \Rightarrow basalt.

TRENCHES N.W. of Summit.

- no outcrop going north

A20 - outcrop begins 550' from north
sample road & continues for 250'. In
17 & 17A places, fragmental nature observed
on weathered surfaces. Dark-green
 \rightarrow purple with quartz & feldspar
phenocrysts. Fragment size - $\frac{1}{2}$ " \rightarrow 2".
Extensive chlorite and traces of
pyrite observed thruout outcrop.
Looks much like andesite observed
in previous traverses but not so
silicious. speckled with rust in some
areas.

~~#21~~

S9N

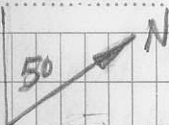
A21
sample
18

- no outcrop till northern end
of trench.

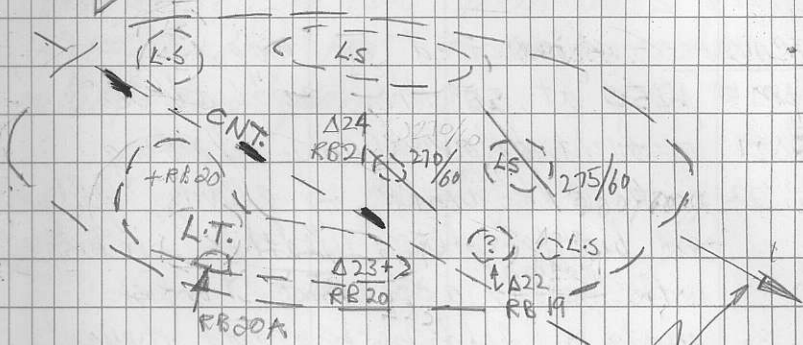
(approx)
9

- silicious andesite with
abundant chlorite causing green
colour? Quartz & feldspar phenocrysts. Quite massive.

- A22 - appears just below limestone outcrop on northern end of major outcrop. Quite silicious with a sandstone → siltstone texture. Quartz & feldspar phenocrysts. 5 → 10% mafic. Little or no reaction with HCl. No visible fragments. Limestone interbedded thruout this outcrop. Podialarian chert [19A]
- RB 19
 RB 19A
- A23 - very silicious with obvious [nearby] fragments from 1/8" → 1". Basically green with most of the large clasts reddish. Quartz or feldspar phenocrysts thruant - 2%. Percent-
 age increased to west. Vesicles observed in this outcrop. L.T.
- RB 20
 RB 20A
- ↓
 cherty
 no frag-
 ments
- A24 - more distinct bedding/cleavage? than elsewhere. Again 270/60° L.S.
- TRAVERSE - 50° from NE end of outcrop.
- A25 - 250' along traverse from outcrop - limestone crops out on side of overgrown road. green
- A26 - 500' along traverse - Lapilli tuff.



SCALE: 200' / inch



Direction of
traverse - 050°.

AIR PHOTO - BC 7103 - 013

SHEET 2

TRAVERSE - as indicated on map.

A21 (a) 1250' at 55° then 300' at 30°

A27 - light coloured "ashy" looking
 RB 22 rock with jumble of quartz, feldspar
 and biotite phenos. Weathers pinkish
 with ~~potash~~ rough appearance. Pinkish
 quartz or feldspar scattered thruout.
 Possibly an ^{intruding} ash flow (Rhyolite)

(b) 200' for 1500' from ^{the} above ↑ outcrop.
 (NO OTC)

(c) 270° from switchback

A28 - 700' from road.

RB 23 - very silicious unit of gray-green
 RB 23A colour. No fragments observed on out-
 crop. Substantial amount of mafic
 minerals. Quartz & feldspar phenos.
 Possibly andesite. RB 23A - 055°/28

A 29 - very cherty varying in colour from
 RB 24 light green to blackish. Very dense with
 RB 24A a few phenocrysts. 1200' from road
 after a ravine.

- claim post # 98972 M, # A W K # 2

M MATHIEU → 1300' from road.

- now heading 180° for 1000' - reached
outcrop done yesterday.

AIP PHOTO - B.C. 7103-033

MAP - SHEET

2

A30 - 2500' from beginning of traverse &
 RB 25 to the west. Varies from a siltstone
 RB 25A to a sandstone. Pocket of RB 25A in SE A
 corner. The presence of a few large (2-4 mm)
 frags. of quartz or feldspar suggest it's
 possibly volcanic. A bulldozed trench
 runs at 330° for 100' and defines the
 western edge of outcrop. Lots of good
 bedding here but all in float! Gen-
 erally quite siliceous. Unfortunately
 no tops. Striking at 80° dipping $70^\circ?$
 to the south.

A31 - only 200' from end of 345° leg of
 RB 26 traverse. Same siltstone as A30 but
 generally lighter in colour. Schist-like
 frag. rock found at north-west end of
 outcrop. Very random arrangement of
 clasts ranging in size from 1 mm to
 (chlorite) 10 mm. Large % of green fragments
 of smaller size & irregular shape. Quartz &
 feldspar clasts relatively large (minor pyrite).

- A32 RB 30 RB 30A 450' from beginning of 165° traverse. RB 30 taken from northern end of outcrop and RB 30A was representative of the rest of outcrop. RB 30A similar to siltstone (argillite?) seen at previous stations. RB-30 is much more coarse, & crumbles very easily. Possibly volcanic fragmental - greywacke.
- A33 600' from beginning of 165° traverse. Same rock as RB 26 (green, schist-like). Regions of elongation striking at 65° and dipping at 45°.
- A34 RB 31 1000' - limestone outcrop extending along ridge to the west for 600' (intermittent) Heavily fractured throughout. Light in colour.
- A35 RB 32 RB 32A 1400' - fragmental, ranging in colour from green (32A) to red. Very similar to "red lapilli tuff". Fragments from 2 mm → 2 or 3 cm.
- RB 33 - 1600' - fragmental - 2mm → 2cm.
- RB 34 1900' - fragmental - " → "
- RB 35 - 3300' - limestone - heavily fractured & greyish. - end of traverse.

AIR PHOTO - BC7103 - 034, 035

- A36 Light blue-green groundmass with
 RB 36 chlorite phenos scattered thruout.
 RB 36A Darkish, cherty looking fragments
 upto 1cm clearly visible. Hornblende
 or other mafic unit up to 5%. Quite
 silicious with small quartz phenos -
 thruout. RB 36A has a darker matrix
 with less chlorite and more & larger
 phenos of the mafic unit, not obviously
 fragmental. Both types occur on
 outcrop.

Δ36A - 600' at 020° from A36.

- RB 36B, - green fragmental with dark
 RB 36C phenocrysts. Indications of flow between
 fragments ⇒ ash flow tuff.
 - andesite found on NW corner of
 outcrop.

A 37

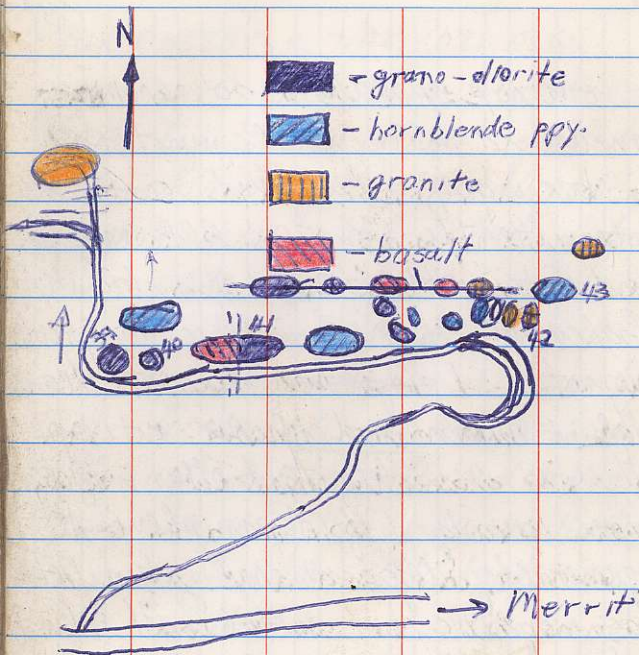
RB 37

- outcrop appears 300' from ranch and main road junction on bearing of 230° , and continues intermittently for 700'. Altered andesite with traces of malachite. Extensive chlorite, with chalcopryite, hematite & magnetite throughout. Near the western end of the outcrop there is less chlorite & other mafics, more quartz & feldspar phenos & generally less mineralization. Not as magmatic but metal with bluish sheen still present. Fades into granite at SW end of outcrop

A 38

RB 38

- altered granitic type rock with very little mafic but shot thru with hematite in certain sections. Quartz - 50-75%. Feldspar ~ 25%.



RB 39 - RB 43

RB 39 - granodiorite

RB 40 - similar to RB 39 but lighter in both colour and weight. Granite.

RB 41 - granodiorite but mottled brown

RB 42 - granite with lots of pink feldspar

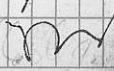
RB 43 - same hornblende ppy. as seen further west. Visibly - Light grey matrix. Less hornblende here than further west.

Δ39 - on south side of creek ~ 250' east
 RB 44 of fork. Very silicious, fine-grained
 rhyolite ~ 5% mafic. Quite dense.
 RB 44A More outcrop appears on same side
 of creek at the creek-fork. S.O.S.

Δ40 Again very silicious but mottled green,
 RB 45 and grey. Minor pyrite throughout. Limestone
 RB 45A (grit & fine-grained) interbedded through
 outcrop. Bedding taken on a siltstone
 with distinct, light and dark, alternat-
 ing bands. Only one small pocket had
 distinct bedding. Probably argillite.

Δ41 - 650' on bearing of 050° from last
 RB 46 outcrop. Quartz-feldspar grit or coarse
 grained, equi-granular rhyolite.

Δ42 900' from Δ40. Quartz, hornblende
 RB 47 ppy. in aphanitic brown matrix. Steel-
 blue mineralization (or weathering) in small
 (1/2" - 1") pockets

RB 48 - 200' from road. Basalt. 

(SE) South of Nicola Lk due south of
 AIR PHOTO - BU 7103-153 ← photo centre

Δ42 - light green coloured silicious
 RB 49 rock with quartz phenos readily
 visible on weathered surfaces. Slightly
 mottled with dark green & speckled yellow
 matrix very fine & chestlike. Phylite?

A43 - similar to matrix of RB 49. Green,
 RB 50 fine-grain silicious, speckled yellow,
 minor pyrite & quite massive, no
 quartz phenos. Chest. Some areas more
 mottled with chlorite and coarser
 grained.

A44 Chloritized andesite. On some weathered ^{surfaces}
 RB 51 andesite; hornblende & feldspar phenos
 " 51A clearly visible. Otherwise dark green
 " 51B mottled appearance with minor pyrite.
 mafic unit of RB 51A stained red.

(dips vertical) Lots of epidote throughout rock. Dike of
 feldspar pp. cuts thru at 310° (RB 51C)
 Δ45 - Dark green, fine-grained, chloritized
 andesite. Splashes of epidote (light
 green)

Δ46 - end of downhill traverse.

RB 52 - same dark green andesite as

" 52A previously found but weathered

" 52B surface very gritty, with $\frac{1}{2}$ " - 5" fragment-looking pitted protrusions all over!

The "fragments" are generally lighter coloured (almost white on weathered surface) and ~~sponge~~^{coral}-like. Band of extra-weathered rock strikes across outcrop at 060° and dips at 15° SE while another band of breccia-like rock cuts across it, striking at 165° & dipping at 20° SW. Feldspar phenocrysts contribute to the gritty appearance of the weathered surface.

AIR PHOTO - BC7103-153

- Δ47
RB 53. - similar in colour & composition to green, chloritized andesite observed yesterday but becoming finer and more even-grained, approaching a silt-sandstone texture. Another dike of feldspar peg striking at 130° dipping 85° to the NE. Followed to SW.
- Δ48
RB 54 - found a small shed (6x12') south of which is a swamp and north is an open area with a few trenches with little outcrop in them. No mineralization found in these trenches. Looked, but couldn't find any drill holes or core samples. RB 54 is somewhere between an andesite and a diorite. It is still chloritized but the crystals are larger especially the pyroxene unit which is $\approx 40\%$ and $\frac{1}{2}$ cm square.

AIR PHOTO - BC7103-151

- 080° for ≈ 4500'

Δ 49 - near beginning of traverse.

RB 55 - Rx is heavily epidotized and chloritized. Groundmass is medium, even grained ($\frac{1}{2}$ mm to $1\frac{1}{2}$ mm) and mottled ^{dark} green. No obvious phenocrysts. ~~A~~ Weathered surface is pitted due to what appears to be fragments ranging from $\frac{1}{2}$ cm to 3 cm. These frag. are generally light green and rounded. (RB 55).

Δ 50 - 100' south of previous etc.

RB 56 - dark green, fine-grained matrix with squarish black phenocrysts from 1 → 4 mm, that occupy ~ 40% of Rx. Epidote on fractures. Probably augite ppy.

Δ 51 - dark green rock very similar Δ 49

RB 57 but no fragments and the augite and feldspar crystals are more

obvious due to an increase in size ^{up} to 2 mm. Andesite?

A52 - mottled light & dark green. Matrix
RB 58 fine-grained with 1-2 mm augite
phenis ~ 35% of Rx. Heavily veined
& fractured with epidote & quartz.
Sparsely peppered with a reddish
metal. RB 58.

A53 Mottled light & dark green or black
RB 59 with ^{heavily} moderate epidote ^{quartz} fractures. 2-6 mm
10% ← feldspar crystals? of rough shape throught.
Looks very altered. Augite phenis
more obvious nearby. K-feldspar probably
an alteration.

A54 - ATP Rx is highly fractured with slicken
RB 60 sides. Otherwise similar to A50 - augite
PPY. Lamination of phenis? 60°

A55 - dark green, very chloritized with
RB 61 augite? crystals ~ 30% (1/2 - 1 mm)

A56 - same as A55, augite ~ 10% in
RB 62 fine grained, green matrix.

A57 - same as above

RB 63

AIR PHOTO - BC7103-154

Δ58
RB 64 OTC ~ 300' west of fork, above lower road. ATP, RX is pervasively epidotized that its original composition is uncertain. Under the lens it looks like it may be diorite. Fractures & veins all epidote filled with plugs of calcite.

Δ59
RB 65 - 150' from Δ57 (west).
- ATP, RX is altered beyond recognition with chlorite crystals (1-5mm) - composing ~ 30% of chloritized matrix. Moderate epidote, veining chlorite, calcite veining. Weathered surface especially reactive to acid. Moderate malachite along fractures. Groundmass disseminated with magnetite & hematite - farnishes reddish. Orientation of chlorite crystals evident on sheared surfaces - 100°.

Δ60
RB 66 - RX is again heavily shot thru with epidote and chlorite with calcite on fractures. The chlorite crystals seen

No

Date.....Page 26.....

to be squashed as does the lighter
green epidotized rock in between.

AIR	PHOTO -	BCT103 - 155	
SHEET -	2h	(320° from road)	
Δ61	-	RB 67 representative of OTC	
RB 67		extending 200' // to road # 50' ⊥	
RB 67A		to it. Moderate quartz epidote veining. Mottled green, purple and black. Feldspar phenos observed especially on weathered surface. Chlorite amygdaloid? Probably andesite. Rock colour varies from predominantly green with little augite/hornblende to predominantly red splashed with green. Fine grained matrix. RB 67A. Some areas very quartz amygdaloid.	
Δ62		Volcanic fragmentals - mostly	
RB 68		red - 5-10 mm. Some up to 40 cm. Feldspar phenos seen thruout weathered surface. Heavily fractured in places. Groundmass purplish ~ 20% of rock. Further along traverse frag. size increases to max of 100 cm, avg. 30.	
Δ63		Immediately after crossing small gully.	
RB 69		Dark green, fine-grained g.m, peppered with black spots (1mm) and quartz.	

amygdules (2mm) - 2% & Rx. OTC
 strikes at 055.

A64 - similar to ^{sample} RB 67. Purple g-m
 RB 70 with 30% plag. phenos. and epidote
 in vesicles. OTC ~ 50' wide & parallel
 to above OTC.

A65 Basicly green fragments from
 RB 71 1-20 mm (some are red) in a foliated
 frag. g-m. Ashflow tuff. Direction
 of frag indicated strike of 30° but this
 seems to vary throught OTC.

A66 - 40' after A65. Back to feldspar
 ppy. andesite. of A61.

A67 - 30' after above OTC. Dark green -
 RB 72 purple, v.t.g., lig buff-coloured
 on weathered surface. Strikes at 60° ~
 150' long, 100' wide. Looks like basalt
 but red lines running thru indicates
 it is possibly an ash-tuff.

A68 RB 74	<p>med. fine grained andesite-basalt. 10-20% 1mm long feldspar phenos. Quite dark colour. % of phenos varies in outcrop from almost none to 20%. Amygdaloidal in places? Strongly hematite staining in places</p>
A69 RB 75	<p>volcanic frag. Purple ^{grey fr.} matrix, ~ 40% feldspar phenos (1-3 mm). (Fragments ~ 5% of Rx. & mostly 25-35 mm). Colour banding indicates good bedding striking at 030°. Frag. in only one area of OTC but rock basically the same elsewhere. Banding stretches for 100' across OTC. Plag, ppy andesite.</p>
A70 RB 76	<p>looks like A69 but frag. up to 100 mm. ~ 80% of rock more easily discernible. Purple with 7% plag. phenos. Makes me think that possibly whole area is frag. Rx will have to be cut. Volcanic breccia. Most frag 30-50 mm.</p>
A71 RB 77 RB 78	<p>dard, fine-grained, like RB A 67 Good bedding strikes due ^{010°} with dips 10° to NE E. Ash tuff.</p>

030
 ← in light of Rx.
 030°?

BC 7103 - 155

Δ 72 - dark green groundmass with ~ 30%
 RB 78A plag. phenos., 10% mafic phenos (1-2 mm),
 some quartz and RB. Plag. phenos very
 obvious on weathered surfaces. Plag. py
 andesite

Δ 73 Plag. py seems to fade into a dark
 RB 79 grey-green, fg. basalt or andesite,
 RB 80 along 030° contact (RB 79). Further N.W.
 RB 81 there is a jumble of various rock types
 RB 82 one of which (RB 80) is a red coarse
 grained frag. (5-10 mm avg.). Nearby RB 81
 was predominant which is a green

035 / ~~5 SE~~
 andesite. Continuing N.W. rock is like
 RB 79, dark, fine-grained basalt. Slickens
 slides and hematite staining are common.
 Excellent colour banding over large weathered
 surface strikes at 035° & dips 75° E.
 Sample RB 82. ATP a few fragments (most
 25-50 mm) are visible around which the
 bedding forms —

Tops to SE.
 (grading)



- Δ74
 RB 83 - fragmental similar to RB 80. most
 by red with ~~some~~ green frag. most
 3-10 mm. some up to 60 mm.
- Δ75
 RB 84 g.m similar to RB 80 but no frag.
 Looks a little like plag. ppy andlsite
 but not so many phenos. med. green
 colour with 10% mafic phenos, 30%
 plag.
- Δ76
 RB 85 Lapidilli frag. mottled red & green.
 (coarse g.m. - much like RB 80.
- Δ77
~~RB 86~~
~~RB 86~~
 040°/80°E Red frag. again but frags mostly
 30-50 mm. Outcrop has distinct bands
 of non-fragmental Rx, like RB 82 (ash
 tuff?) - fine-grained with ~15% plag.
 phenos. Also contains ^{ribbons} bands of lighter
 coloured material which are thin-bedded
 striking at 040° dipping 80°E. Tops
 unobtainable.

40°/70SE

- abundant quartz / epidote veining,
- ~~shows~~ uneven weathering source of
bedding

- fine grained, grey - black, non - amygdaloidal.

- ash tuff.

↓
(streaked dark green)
& hematite red)

A/R PHOTO - BC7103-051, 052

SHEET - 921-29-2

Δ78
RB 86
027/47SE
Volcanic sediment showing definite banding, especially between argillaceous beds and sandstone-grit beds. In places particles seem welded together (crystals giving it a granitic-like appearance) green/gray color. Slickensides. Bedding taken on rock that could have moved - 027/47SE. Disseminated pyrite.

Δ79
RB 87
RB 87A
058
- Dark green, fine-medium grained, possibly recrystallized matrix. Quartz crystals (1-4 mm), varies from 40 → 65%. Apparent bedding seen in some places. 5-15% mafic. Minor pyrite and steel-blue mineralization (RB 87A) Andesite?

Δ80
RB 88
RB 88A
- In general, very similar to Δ79. Color varies from gray-white to dark gn. Rx is becoming less like

058/
85SE a quartz ppv. and more like an andesite. At lower end of outcrop sample RB 88 taken. ATP quartz crystals are as large as 20 cm. Gray, iridescent mineral in moderate quantity. Distinct bedding taken on coloured banding. 058/85SE. (RB 88A)

081
RB 89 Massive dark grey - gn. siliceous g.m. Quartz crystals 1-4 mm ~ 25%. Bedding similar to RB 88A found in float. In some pts. quartz crystals are mostly 3-5 mm, some reaching 15 mm and oval shaped. Abt. 30%. Further east quartz becomes less obvious as crystals decrease in size and mafic increases to 20%. Quite similar to 079. Quartz diorite?

082
RB 90 Light to dark green. Quartz Xals (2-4mm) ~ 40%. Mafic ~ 30%. Plag. phos (2-3mm) ~ 10%. Matrix same as RB 89, dark green - fine - med. grained. Quartz diorite?

Δ83 - g.m same as Δ82 but quartz
 and/or plag crystals (2-8cm) ~ 65%.
 Xals roughly square or rounded. 10% of 65%
 rectangular & probably, plag.

Δ84 } ~~Varies from Δ83 to a dark-green~~
 RB 91 } ~~epidotized andesite. Mafic crystals~~
 (done } ~~are 1mm and spherical, ~ 25% ATP.~~
 by WJM) } ~~RB 91 representative of OTC and~~
 } ~~same as Δ83.~~

BC 7103 - 051, 052

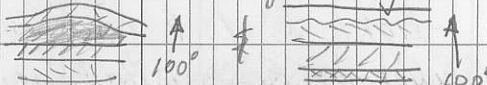
Sheet 29-2

Δ 84 - OTC seems to consist of interbedded
 RB 91 andesitic and rhyolitic flows. Good
 RB 91A flow banding observed in both
 RB 91B flows ($048^\circ/90^\circ$). Some zones look
 $048^\circ/90^\circ$ very sheared (heavily fractured and
 brown). Sample is andesite/basalt
 flow - RB 91. RB 91A is a sample
 of the more rhyolitic flow. In many
 places Rx is unevenly grained &
 generally more confused. (RB 91B)
 moderate pyrite, esp ^{more} in rhyolitic flow

Δ 85 Dark grey - br. matrix, Bluish,
 RB 92 spherical quartz crystals (<1mm)
 ~ 30% of Rx.

Δ 86 More excellent bedding than OTC.-
 RB 93 $029^\circ/50SE$. RB 93A is Rx in which
 93A bedding was taken. Major rock
 $029^\circ/50SE$ parting has the same attitude. Rx
 $035^\circ/45SE$ very broken up - hard to get an
 unweathered surface. Has finely

mottled, green & white texture.
 ToppS
 to East? Could be sediment or lava (RB 93)
 ToppS to The East from grading.

Also: 

Δ87 DR gn, f.g matrix. Quartz phenos.
 RB94 (2mm) ~ 5%. Plag. phenos (1-4mm)
 ~ 25%. Mafic ~ 10%. Some quartz
 "phenos" could be amygdules.
 Andesite is huge at 1 cm.

Δ88 Similar to Δ87 but more large
 RB95 amygdules (1cm) up to 25%, and less
 040° / 55 SE plag. phenos. Mafic unit up to 30%
 of Rx (RB 95) Flow banding 040° / 55 SE
 Like Δ83 from yesterday.

Δ89 Similar to Δ88 in crystal
 RB96 size and shape, but matrix purplish
 and much more siliceous. No plag.

Δ90 Dark grey, f.g., siliceous matrix
 RB97 with 5-10mm, euhedral plag. phenos.
 Also some quartz amygdules. Bracciated
 in one place.

BC7093-020, 021

Sheet - 821-26

- A 91 light to dark gn, fine-grained
 RB 98 siliceous Rx. Generally quite broken
 up with many small, epidotized
 veinlets. Plag. minor pyrite. 5% mafic
 Rhyolite.
- A 92 - l.g., siliceous, 40% feldspar.
 RB 99 5% mafic - Rhyolite.
- A 93 dark green, siliceous, 10% mafic
 RB 100 - Diabase.
- A 94 d.g., slightly siliceous, 20% mafic.
 RB 101 Plag. phenos. Andesite
- A 95 Same as A92. Rhyolite (Previously
 RB 102 mapped as andesite) - of bluish-grey
 colour
- A 96 Andesite. (siliceous)
 RB 103

~~A 97~~
~~RB 104~~

D 98
RB 105

- peppered with 1mm epidote
spots. 20% mafic. 30% plag. 0; 20%
Andesite.

A 99
RB 106

Andesite.

~~A 100~~
~~RB 107~~

BC7103.020

Sheet 921-25-3

A 99 OTC at edge of meadow, on
RB 107 top of hill. Light to dark green
with 50% 1-3 mm frags. Frags
mostly red or green argillaceous.

Groundmass composed of particles
< 1 mm. One or two 30 mm frags

observed. Many of the larger frags
(10 mm) are well rounded. Percent
tops up. age of frag. varies from - 25 - 95%.
5% chlorite crystals < 1 mm.

Distinct graded bedding observed
ranging from mostly 4 mm to
siltstone-size frags. - 075°/23 NW.

Good tops ~~to~~ up. Unfortunately
there is possibility of slump.
Distinct slate-like parting
has attitude 030°/35 NW
Lapilli buff.

- Δ100 - just south of Δ99. Red, frag.
 RB108 matrix. 15% plag. phenos (1-3 mm)
 Vesicular on weathered surface.
 Red pyroclastic lava.
- Δ101 - just east of previous otc. Light
 RB109 green v.t.g. Rhyolite?
 Δ102 - not sure if andesite or frag.
 RB110 has to be cut.
- Δ103 just east of rhyolite-andesite cut.
 RB111 med., even grained micro-diorite
 or andesite.
- Δ104 Representative of otc on west
 RB112 of hill, east of previous stations
 Plag phenos (1-3 mm) ~ 30-40%.
 of Rx. Dark green, fine-grained
 with 10%, 1 mm mafic crystals.
 Epidotized and chloritized in some
 areas.
- Δ105 - look like med-dark gn. andesite
 RB113 but possible frags. obs. on weathered
 surface.
- Δ106 - red-gn. ash-lapilli frag.
 RB114 -

Δ107 - purple, fine-grained andesite.
 RB 115 20% plag. phenos.

Δ108 - very broken up, foliated, lapilli
 RB 116 fragmental.

Δ109 - buff-coloured, fine-grained,
 RB 117 siliceous dacite.

Δ110 - between A
 RB 118

AIR PHOTO - BC 7096-020

Sheet 2b-3

Δ110 - claim post on north ~~side~~ side of gully
 RB118 near trench with no OTC.

ALPHA #81, P. BLIND agent for
 L. SHULMAN, Apr. 29/62

west 1500' to #2 post

- OTC on south side of creek. Rx
 looks like rhyolite on weathered
 surfaces but broken surfaces indicate
 tuffite or andesite. Has fragmental
 appearance in places but could be
 large crystals. Clean surface hard
 to obtain. Bleached andesite.

Δ111 Intermittent OTC along creek bed.
 Good andesite. Plag crystals (euhedral-
 1mm) ~ 20% mafic crystals (antid-
 rial - 1-4mm) ~ 35%. Dk. green.
 10% epidotized.

Δ112 In grove of trees on south slope of
 meadow. Andesite with heavily bleached
 areas so that Rx is grey with traces

of mafic, & quite siliceous. I previously mapped it as rhyolite because of this bleaching.

D113 Euhedral to subhedral plag. crystals
 RB 119 (2-5 mm) ~ 25-50% of Rx Euhedral
 augite crystals (2-5 mm) ~ 15% of Rx.
 Groundmass is medium-green with
 a sandstone texture. Plag (avg.) ppy.

A114 Just south-east of plag-ppy 90%
 RB 120 of otc is fine to medium grained,
 RB 120A and in some places, quite siliceous,
 025 andesitic. (RB 120) Medium to dark
 85SE gn. colour, with 50% plag and
 010 30% mafic. Bedding taken in
 75SE colour-grain-size banding in a bed
 of ash tuff. 025/85SE. (RB 120A)
 Possible tops to east (grading & discon-
 formity) more good white/green colour
 banding in 1/2 cm beds 010/85SE. Some
 areas of otc are fragmental.

D115 Still andesitic but heavily epidotized
 RB 121 and chloritized. Looks ~~frag~~-frag
 on some weathered surfaces. 5-50 mm
 some 100.

- Δ116 OTC covers top of bluff. Dk. gn, f.g
 RB 122 matrix with 30-40%, 2 ma plag.
 RB 122A frags. which are conspicuous on weathered
 surface. Quite massive and siliceous and
 very similar to Δ104, on top of ridge.
 122A Some 5-30cm frags. observed on weath-
 ered surfaces only. Plag py-ash tuff.
 Δ117 - purple fine-grained R_x with
 RB 123 25% plag. phens. look like andesite
 but fragmental nature obvious in
 places. (RB 123). Purple-blue volcanic
 fragmental.
 Δ118 - OTC between Δ113 & 114, Light
 RB 124 green on weathered surface &
 splotted. Contains angular fragments
 3mm - 3cm, about 50% of R_x.
 Most fragments are pinkish in colour.
 Groundmass is mottled green & white
 much like RB 121 (Δ115)

ΔWS 133 Bedding taken on dark parallel streaks (2-5mm wide) running quite consistently along Rx surface. Rx is fragmental, very foliated in places with flattened fragments. NTP Rx has a sandstone texture 005/70W. Squashed frags. define attitude of 170/70W.
- shale-like parting \Rightarrow 167°/88W

- east edge of cliff - sandstone \rightarrow pebbly, not too flattened. Then fragments inc in size so that most are 20-40 mm. Continues for 40' then back to pebbly conglomerate (3-15 mm) till west side of cliff