

1991
Book 4

Date	Site No.	Spec No.	Location	Page No.
Aug (OR)	100-91		Ceparty Glacier	1-5 7/23/91
28/11	44-111	113	North of Atkins Glacier	5-11
29	4754	119	North of Atkins Glacier	5-11
31	51-53	120-123	West Side Treaty Glacier	12/16 cal
Sept 1	54-57	124-128	Lower Treaty Gl. - East West Side	17-22 27-35
4	58-59	129-131	West Side of Bruce Glacier	23-25

1-6

35

11
28

P
60

Ceparly Glacier 1

Cloud, light snow Wed. Aug 23/91
rain late pm

① Cord Allenquial
- many technical crevasses
to SW

② R1-44 - 1725m

- snow ~ 35m
below o/c
- crevasses ~ 35m

1770m of hole to S

3 4

216/180 (11)

fair on (edge)
p. of bl. area

Overlain by

rich dark
debris flow

- scour indicates
tops W

- some 1m graded
dark pebble - sand beds
~ 70-80m N - tops W

257°/38° (W)
good on bedded
bl. arg & g. S.S.
& sed br. debris
flow

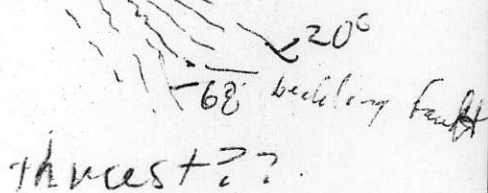
~ 150m N KQ-91-111A
mas. fig. immature
fig. S.S. (arg. & feld
XHS) 5m + thick
unit
scattered pebbles

- much dark sed br.
bedded arg & ls & ss
clasts

- ~ 50m N 179Bk
253°/330
fair on bedded bl arg
just before
vein & fault

vein (tectonic) on east?
~ 280°/70° (N) poor
& fault - same
beds on either side
of fault but disrupted

- 270°/68° good
1687m on contorted sed
KQ-91-111B typical bl. arg
S = 55°/70° N



20°
68 bedding fault
thrust??

- ~ 30m N
210°/20°
fair on bedded bl arg

~ 40m N below ice
- 268°/45°
good on well-bedded

dark f.g. s.s. & siltst
- scoured fluidized sand
~30m N below ice
250°/35
good on same
dark bedded arg.
f.g. s.s. & siltst

1555m
~50m N - NE of ice
220°/50°
good on bedding
same dark sed.
- strong ^{brittle} disruption of beds

~60m N below ^{butt} cliffs
226°/40°
good on bedding
same bl. arg siltst & s.s.

1450m
~60m N S end pt of at
250°/35
good on bedded
distal turbidites - grades
up into " - some shumped
- flat fault ~50m W ^{truncated} beds
seeds @ br. to W

~200m bl. arg 3
(f.g. s.s. & siltst, total)
~50-100m strat.
turbidites
~20m disrupted
sed. br. beds
slumped out
to pt. of c. to 1400m
& then moraine
for ~

- mas. o/c ~70m?
to sta.

ORI-45-1290
- lower pt. of
o/c below ice
- side Gl. ~100m N

KQ-91-112A (no LC)

ref. mas. med.
grn-grey polyt. sh.

dark Cg. S.S. of siltst.
some and-fungy clasts
? vol. or siltst?
debris flow

- mas. med. green and.?
in bold o/c under
ice

1210m pt of at str. E of ice
~100m N^{30°} of ice
~~16~~ 10°/47°W fair
on well-bedded
bl. & S.S. under vol.

~40m N118°E ~15m above
158°/60° (W) ice

good on 1m
bedded sed's below
conformable and.
br. close to monomictic
(i.e. contact trending
down ice)

- some slurred sand
beds (w) bedded ang. clasts
near contact

- sed. - vol contact
w/ ice

4

1080m
~150m cover to o/c
W of toe of glacier

266°/87°

- same clark sed's
but perhaps going
through a fold hinge?
- seen to cross valley
- ~20m dark well-bedded
sed's & then
mas. S.S. - then
quit checking o/c

1000m ~100m down str. N
of glacier o/c at
str ~20-30m
buff weath. pale
grey feld. - hb.
porph @ ~3-4%?
diss. pv
KR-91-113A
buff-weath. from Alameda
carbonate veins

it might be sill
 (Assay site 33013)
 - br. @ sample site (2m)
 - o/c downstream for
 ~70-90m to W
 drab alt. ^{min. max.} polymictic
 br. (~2-3% diss. pt)
 - some o/c mas. some
 @ subtle br.
 - faulting down creel

- polymictic and. ? br.
 to NW in o/c's
 above talus

- just N stream ~30m
 of sed. (turbidites.)

260°/73° poor
 on faulted bedding

at str. Gond says top N. 100°/76° NE
 + then mas. faulted o/c
 difficult to tell r/t to

KQ-91-113B - possible alt
 o/c 60°/60° NW

pl. pi-hb sill >20m??
 & again mas o/c @ fault faces 5

ORI-46 - 942m

- at stream & bushes
 - end of o/c slip
 both sides

- also unit @ ls cobbles @ corals
 - 216m camp

Summary

- 1) Section appears to be ~200m well-bedded black mudstone, siltstone & e.g. S.S. overlain by distal turbiditic S.S. &/or debris flow breccias overlain by andesitic polyolithic to monolithic breccias. Section was repeated on faults.
- 2) Possibly a fold hinge in the valley but units of o/c's are too massive to be certain.
- 3) No penetrative fabric in any part of traverse but many minor brittle faults (disoriented bedded blocks) & numerous 93-cal tectonic gash veins.

North of Atkins
Glacier

Snow, wind, cloud, Thrus. Aug 29/91

~~sun~~, cold, cold, cold - 50 mph winds & snow

OR 1-47 - 1850m ^{to 2000} _{ridge crest}

- ridge crest
- junction 2 gl.
to N.

~ 90m E of sta

295°/65° (N)

poor to fair on
bedding - bl. arg.
- crumbly slaty etc

at sta

325°/52°

fair to good on
bedding

SE 5616 Summit
Claim post

very old 1930s?
4 metal survey stake

~ 25m - 30m strat 6
bl. arg.

~ 10m cover

& then ^{1/2 to 1/3} mostly
pyritic Mount

Dil. lapilli tuff
KQ-91-114A

~ 20m strat. lower

352°/53° on aligned
frags. (fiame)

rhy @ wispy
carbonaceous layers
10m thick waxy
weath. unit.

KQ-91-114B ^{1/4% p.}

- base of unit pale grey
@ ~ 15-20% f.g. diss.

331°/47°

good on bedding
drab felsic tuffs?

~ 25m strat. lower

~ 10-15m of sil. pale grey
bedded tuff @ feld microite 114C

~1750m - ~20m strat
lower bedded
sl. rusty weath. sil.
grey lap. tuff units
(~8m thick & bedded)
KQ-91-114D
- aligned frags?
- ~2% opy
- ~15-20m above base
of Mt. Dil. Fm

~40-50m Mt. Dil. Fa
(photos)

~90m W ^{300°?}
^{20°?}
? (200°/60°N) fairly
on chunky bedded
@ altitude ^{15m} grey
lithic tuffs
thin to E ~8-10m
thick W end
West End ridge
1770m
KQ-91-115A

- mas. pale to
med. grn-grey
dac? lap. tuff ~10-15m
- minor mas. mat
in area

~20m S
210°/60°N
fair on bedded
tuffs ^{grey & mas.}
(~5m poorly exposed)
- more ^{grey} lap tuff @ pale
grey ^{frag} frags
(Dil. 5)
then dense
faulted rock ~
20m in pale o/c
1705m base of o/c
KQ-91-115B

dense mas. dark
grn-grey rock has
highly faulted
many slip surface

1758m - ~20m strat.
 lower
 bedded 8-9m sil. grey
 sup. tuff unit
 KQ-91-114D
 aligned frags?
 w/ clay?
 repeat - bedded sil grey
 sup. tuff
 below
 - Dil. section ~40-50m
 ~90m N near end of
 ~200°/60°N fair or
 crumbly bedded
 mar & grn grey
 (lithic?) tuffe
 (thickening W)
 photos to E Dil. Sec
 - large faulted dyke?
 - no strat. distance at base
 bedded some sh. dark
 tuffs above sed at base of it

then headed W. 8
 across glacier
 ~1km SW across ice
 1762m base of dr
 KQ-91-116A
 (fairly?)
 mas. med green (eggs)
 pl. phytic and br.
 (W) frags to 10cm
 - frags. different
 colours but ~monochrome?
 - some grn to some
 minor mar. interflow
 mat. to 5 many epid
 fractures & clasts
 ~60m S base of rock
 - 1818m sl. pt rk ^{at 1st}
 KQ-91-116B ^{of line}
 med. grey (sl mar)
 pl. phytic and br

~ 60ms

KQ-91-116C

mar. grey and.

~ 30m then ~ 50ms

1850m

280°/62°

fair to good
on bedded

maroon-grey
epid ch. 1/4

the rounded
paleolithic and
br

~ 30m cover

then ~ 30-40m
strat. mar.

grey extr. Pre. Porph
scattered 0-30cm
grey porph. blocky

-KQ-91-117A

9

ORI-48 - 1842m

- pt of o/c
snow cornice

290°/60°

fair to good
on bedded

red lap full
KQ-91-117B mar
9m

~ 30-40m strat
+ then
some thin red beds

- ~ 200m cover

moraine - in fog but
could be o/c or ridge to
W.

ORI-49 moraine at end
of ice - 1828m sulph. boulders in mor.

to W 1st bedded
grey argt sil.

+ then ~ 50m
drab green grey
and br. some
abundant argt sil.

frags poss. sed frags,

~ 30ms^{ms} pale pyrite
similar 113A, B

~ 3-4m contact
well-bedded ^{dark} ay

W x ~ 7-8m sed br
& more and polybitic
br.

1735h 340°/60° (IE)

fair on
contorted
bl. arg silts
etc

tried to go
down canyon to
W part too steep
so back to str.
to E

1600 318°/60°

good bedded
bl arg &
green siltst & ss

rusty S.S.

10

1600m KQ-91-118A

1600m TOPS E

more sds?

30m lower

322°/55°

good on
faulted sed
crack (scuff)
grey & bl arg
siltst

30m

1600m lower

KQ-91-118B

10m arg
rough sil
~ 5% wh. pt. c. - spon. phenos

N/om S

2m grey S.S

KQ-91-118C

typical

Shale rips ups near
base

~30m lower at
334°/60° str.
good bedding

buff weath,
S.S & bl. arg.

~30m

15-30m snow lower

325°/60°

good
buff weath

four bites

end of o/c? ¹¹

~60m

10m 118B-type

porph. sill,
@ dark bed. etc

@ R1-50 - 1450m

at snow (stream)

& ice

2 km W

1358 end moraine

312/55° strat
etc

good bl arg

023°/82° good
 on fold axis but might
 be a synsedimentary fold?
 - limbs cut by many unmetre
 brittle faults

1260 m E of

3/2/70

KQ-98-119 typical buff mud
 carb. alt. completely deformed
 distal turbidites
 310 m Camp

Summary

- 1) Hazleton Group is relative
 thin - has no Betty Creek-type
 epichastites + is dominated by pl. phos.
 and sand breccia (volcanic)
- 2) * Section, although thinner, could
 be typical Sulphurets transition
 from Haz. Grp. vol. br. down through
 sed. br. into an underlying thick turbidite unit

West Side Treaty 12

Glacier

Cold, Sun, Cloud Sat. Aug 31/90

OK1-51 - 2010 m

- top of ridge
 - went to S to
 check section (~150-200
 m S. S. S. (157) top of them
 returned to up the dip
 300°/70° (N)
 good bedding

010°/38° (E)
 good spaced (fracture)
 cleavage

~150m S

295°/65° (N)
 fair on bedding

~100m S to drill

1866m
 - ~150m SE of "C" zone

030°/090°

fair on spaced
clv ~15m W
of showing

KQ-91-120B

grungy drab clv
po^lolithic andesite
sed or vol. br? mat
gritty ss pebble sandy cgl-loc
immed. overlying

KQ-91-120A

- shallow overburden
trench near drill

(8m) q^v vⁿ
- some galena
stibnite?

- went down through
~150-180m??

section from helicopter
drop off

flaggy (cl) grey
maⁿon l-grey & buff
weathering S.S. buff
up section to E numerous l^gme

wash
conc

+ c.g. siltstone? 13
- towards base
some dark limy
beds

~30m S ^{~20VS} of drill
~1m wide

120C q^v vⁿ (W) LBS + 75SE
tetra up picket to SE

180°/04° (W)
fair on vein

1967m ~ 80m N to
fos. lime S.S.

KQ-91-121A

Weyla's Pecten Eastrop
1 bel. + 1 al^o xite

- ~150m N back

to Sta
all S.S. 4 sifst
make maⁿon cup
& some argill^l f^lds

1 cap. tuff or debris flow?

KQ-91-121B

@ peate (sta)

typical of buff-weather

(buff to grey) s.s.

some well-sorted frags

~ 50cm to 1m beds

some interbedded
dark & mar. slate

& buff-weathering

limy concretions.

- more fos frags
in tabus

- ~50m? N contact

Vol. rk

- all frost leaved

lichen-covered
NO/C's

1200m

- ~30m N (next peate)

KQ-91-122A

grey pl. phric tuff-br
frags to ~50cm

~30m NE top 14

of ridge claim post

(tags ripped $\frac{1}{2}$ off)

- rubble and br.

(poor d/c)

- in fog EO can't

see areas around

- some wh. weath

porph. & v. br. blocks

- some pre-Porph-type

(2fld-ly) br. blocks @

1m dia frags ^{but some}

- variable and ^{by} ^{group} ^{compil.}

- ~100m NE (intog)

1868m

KQ-91-122B

typical med grey

mas. monomictic

andesite ^{or} some hem.

- many epid & some hems

- breccia could be

layered (tabular zones

highly variable) but

of broken blocks

1815m in fog
 ~40m WNE? (base snow)
 KQ-91-122C to 7mm
 pl. (E k-spar?) - h.b.
 porph. & porph. br
 - med. grey - some
 sh. hem. mar. stringers
 seems to be a bit
 flow (-dome?)
 - some feature John
 Walker Porph. - columnar
 texture but
 distinct clasts &
 no dark xenoliths
 & also Pre-Porph.
 - many pale blocks
 in talus
 - on closer inspection
 it does seem to have
 abundant white-weather
 k-spar (??)
 - minor gossan patches
 - ~ total 50m? Pre-Porph
 then mainly pl. phytic
 and. br (w pale epid. alt

clasts & then
 rel. massive sl. mar. 15
 med. grey and. @
 scattered brownish m. red
 interflow units
 1722m ~ 150 - 180m
 N

base of cliff
 mas. v. t. go. pl. phytic
 sl. maroon-grey
 andesite
 KQ-91-122D

~150 - 180m N to Sta
 same and of and. br.
 - then more continuous
 maroon grey &
 then grungy ol. gneiss
 near quiet

OR1-52-1690
 - ridge crest
 top of gossan
 in a rain & ice

KO-91-123A
 top of gossan

pale ser alt.
① ~3-4% k.g.
diss. py

~40m E down ridge
1632m

KQ-91-123B
same pale to med.
grey ser py alt.
diss.

- went E downslope
to glacier

- photo Treaty Gossan

- ~250m E to glacier

- gossan zones max
~30m wide & come
+ 40 @ no strong structural
control 1325m

~10m
above ice

190°/70° (W)

poor on schistosity
(i.e. flattened and braced)

KQ-91-123C

pale to med qrn grey
chl (carb, ser) 16
altered and spl-ly
porphyry but ~~frags~~
indicate that it is
extrusive)

~70-80m N
along ice ~1270m

KQ-91-123D

- ~20m wide??
(no orientation
seen) of med.

qrn. Pre. Porph.
bodies - 1 frags.
? intr. or extr.?

~3-4% k-spar? to 1.5cm long

- then can see at
a distance and br.

DR1-53-1230m

- opposite str.

- on ice
CUM# 230

Summary

- 1) Fossiliferous sandstones are distinctive @ buff, grey, & more or less grey beds of buff-weathering limy concretion & their position below massive andesitic volcanic rocks.
- 2) Andesitic volcanic section is much thicker than to the west. Many of the andesitic units are very massive & where altered in poor o/p's would be difficult to distinguish from intrusive rocks (pl-hb porphyry).
- 3) Mineralization at drill appears to be 2 veins @ different mineralogy. No obvious gossan in area.
- 4) Pyritic gossans west of Treaty don't have obvious structural controls
- 5) Sandstones must go through covered interval between OR1-48 & 49 on traverse to West

Lower Treaty 17 Glacier Area (East & West)

Cloudy, cold Sun. Sept. 1/91

- OR1-54 - 1620 m
- broad area gentle ridge @ extensive white talus ~100 W of snow on ridge crest
- N. of Treaty Gossan
- ~20m N down slope
- 055°/090° fault on faulted 2m-wide felsic dyke
- several faulted felsic dykes in grn-grey alt. vol. rts

~10m N - 1593m
325/70° fair
on flow - layering
in grungy, pale
green felsite body
(4-5m?)

KQ-91-124A

-feld. microclots
-intrusive into
med. grn mafic mas
sills? (or extrusive vol.?)
+ 150cm mafic
dyke cutting felsite

- then massive
grn-grey felsite
downhill (2/4/odiss
py)

- ~80m N - 1515m
near base of cliff

KQ-91-124B

typical of med. grn-grey
mas. rhyolite(?)

~15m N base of ^{main} cliff 18
204/38° (W)

fair on possible
bedding in felsite?

~10m N
- at least 1m poor
exposed gritty S.S. ^{py}

145m - ~45m N towards

155°/steep
slumped o/c bl.
Slates - Salmon
R. Fm?

- KQ-91-125A

typical of 15cm wide
more mas. lining
dark bed - to py

~15m N 318°/88°

poor to fair on
undulating bedding
bl arg. & S.S.

- to E of W (~100-200m)
appears to be mainly
felsite

- ~ 20m cover then
o/c above knob

315°/62° (NE)

Pair on bedded
med. grn. lap. tuff
& tuff br. - mafic
matrix @ vhy.
Frag. to 10cm
KQ-91-125B

- ~ 30m strat (?) of
grn tuff br @ white-
weathering "rhyolite" (felsite)
fragments

- ~ 3m o/c debris flow
@ ~ 40% 10-20cm bedded
bt. arg frags - mafic dyke
silt & tuff br.

① R1-55-1232m
- pt. of o/c at
ice

massive med green
amygdaloidal (~15%
cal. & chl.)

pillow lava & 19
pillow breccia
KQ-91-125C

(@ amyg. couldn't
break any without
amygs.)

- ~ 30-40m strat.
of pillow br. & tuff
exposed to ice

- ~ 1% cal. veins & local
calcite-matrix br.

- some pillow rims
visible here but
to W become
amyg. br. @ without
obvious pillow frag

- some 1m amyg. blocks
but mostly 20cm

- ~ 30m W
KQ-91-125D

typical of f.g. br. (lap.)

- same tuff frags
* - NW end of knob
felsite to pill. @
no intervening sed. br. or silt

- went down ice
to pt. of o/c
at moraine.

- 1112m ^{margin} grey

- cgl. (hem. red)
Pre. Porph. br.

- prominent blocks
to 60cm

- alt. zoned k-span
phenos. (25% to
1.5 cm.) ^{green} matrix

KR-91-126A

- ~5m & then mas. med.
grey Pre. Porphy
for ~40m around
pt. of o/c

① RT-56-1072m

- on top of
moraine below dc

~40m strat. mas. med
green and br. to S
- a few amyg. frags.

- then small
sect. in 15-20m
cgl. ^{epi} last 20.

157°/88° SW

poor to fair on
green bedded S.S.

& qz. med. cgl. (red)

poss. spon. tops SE

(same loc. as last year)

1030m - ^{also} down to ice

053°/48° (SE)

good in ~20m
bedded grn. stuffs, br,
S.S. cgl. (30cm amyg
block)

same rocks as those

to E

- suspect tops SE
& inside-out anticl.

or syncl. (an

important fold?)

KR-91-126B

typical of grn
gritty S.S. lenses

OR-57-1100m
- lower part
pt. of o/c ~ 20m
above ice
032°/62°
good on
schistosity
(flattening plane)

^{subcutting gneiss}
- intensely altered
& sheared vol. br
in FW

KQ-91-127A
~ 20m strat. & v.
below layered py
zone.

KQ-91-127B
1m sh f.g.
py zone (sh brown?)

KQ-91-127C
blocks from cliffs
above of f.g. sh

layered qz py 21
natroalunite
- also some
natroalunite - qz
veins cutting py
- py blocks are
lightly sheared
- also high py matrix br.
- f. felsite of O. l. type
- some alt. sh breccia
- ~ 30m S up ice 1100m
intensely alt. qz - py (50%)
(f.g.) rk.

KQ-91-127D
py sil. masses are blocks
in ser. schist
~ 15m S photo contacts
folded sulphides

KQ-91-127E
another 30m strat.
of sulphides along
ice (py @ qz & natroal)

- photos of layered sulphides
- can't see yellow streaks down
- possibly > 70-80m^{o/c} of layered sulph. rtk

KQ-91-127F

layered py @
native sulphur
as close as I could
get to end of sulphides
but still 10m
more to W
I could sample
prominent retroalunite

2164m

~ 20m W on top
highly crenulated layered py
NS / 90° main
145 / 90° layered
crenulation
c/v
folds

310°/70° poor
on fold axes
crenulation c/v

KQ-91-127G 22
(several Oreguest
sample sites in area)
295°/70° approx. plunge
of crenulation folds



sketch of crenulation
fold pervasive through
large o/c

- here sl. higher
silica (~60-70%) +
- cement lower py (~30%) content
gossan on top of o/c
280-90m SW-1180m

10m o/c of med.
med. grn-gres
rtk (bedded grn
SS.)

KQ-91-128

200°/72°
fair on bedding
similar to 12685.5?
Camp 226m

Summary

- 1) Very complicated geology.
First part of traverse
rhyolite dykes (somewhat irregular)
feeding subtly flow-layered
green-grey felsite (124A) which
might be bedded near its
top to the east. Salmon
R. S.S., blank, matrix pyroclastic
breccia with rhyolite fragments
& amyg. pillow breccia
overlie the felsite but all
but pillow breccia are
probably only in a local
paleotopographic basin (or
cut out by a fault?)
- 2) Near junction of glaciers
is probably a major fold
(inside out" anticline to syncline?)
- 3) Layered qz-py (with calcite)
rock is very thick (700m?)
and very impressive. Although
very highly strained it is
probably syngenetic exhalative
bedded rock.

West Side Bruce 23 Glacier

Rain am
fog, cloud, sun

Wed. Sept. 4/91
pm

OR1-58-1435m

- "hump" on ice below
- N of Ice Lake

- went ~ 50m S

KQ-91-129A

sl. fol., mas., pale
to med. green-green
lapilli tuff unit
(720m thick)

(w/ tiny frags (~10%)
leaving holes in rock)

- some frags. to 5cm
(tuff-br.??)

- similar to 115A but
not as "siliceous" (hard)

- ~ 40m N
205°/20° (fair on bedded)

quartz top. tuff & gravel
S.S. & siltst beds

- some faulting & shearing
- some rusty fractures

Y units - some thin mag grey beds
 ~10m N
 - 1970/37 poor to fair on bedding

- ~20m N top of thin v. well bedded f.g. & c.g. S.S. (w soft sed deformation features)

- some pebbles & lapilli frags
 2090/35 W good on bedding

- 2) - photos
- 1) - tops probably west based on crude scour & soft sed. def. features
- 3)

~15m N
 KQ-91-129B

- some lithic tuff & lap. tuff units

- considerable 24 disrupted bedding

- ~20m N to end of snow

- start rusty units (similar disrupted beds)

- ~20m N KQ-91-130A pale grey p. & z. f.g. mas. S.S. ? (low in rusty sequence)

- rust pale alt. debris flow (w any frags. cut by 1m rusty felsite dyke)

- alt. sed. & d. dikes for ~20m then angled up N. w. moraine

- ~50m cover in moraine
 1442m ~15m above ice

240°/52° (NW)
 fair to good on

aligned fragments
(framma) in
white weathering
pale green welded tuff
(with 10% diss. py)
KQ-91-130B

- photo block (in moine)
of ^{typical} dark medium gr.
quartz Stuhini andesite
breccia with clasts
(to 15cm) of quartz
porphyry
- went back down
to ice.

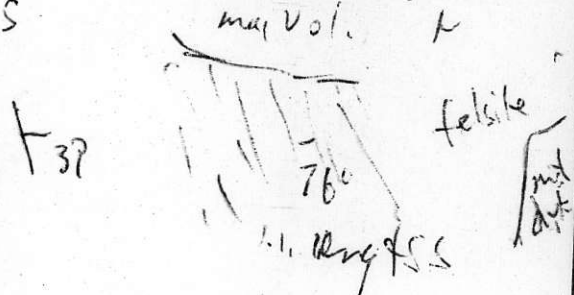
2) more pale alt. welded
tuff - ~ 50m N end of
snow
242 / 36°

3) fair on
aligned frags & on flow
~ 15m N layering (regular)

1385m
KQ-91-130C
typical pale green layered

felsite 25
- aligned rusty gas castles
~ 25m N ~ 150m strat
263° / 38° of welded
tuff.
good on layering

~ 15-20m N
272° / 76°
fair on contacts
& truncated
~ 8-10m bedded
py bl. arg. & f. g. s.s.
S. mag. vol. t



- ~ 50m N 1358m at ice
ood
LC KQ-91-130D
rusty weath. pale
grey. mas. eye (2-4%)
felsite

~ 1/2% ju of cut
or veinlets @
pos. green met. min
(chal. ip veins)

- 25mN rust-ye
high contorted
flow folded
flow-layered
pale grey & white
spherulitic (fish eye)
rhyolite
KQ-91-130E

cut by 1m mafic
dykes (~10 in
lanea ~ E-W)
& 50cm br. dykes

2;
1
3)

overlain by mas.
grey & sl. maroon
grey tuff br (mainly
lap. tuff @ scattered
10-15cm frags)

1330r
~ 50mN snow behind hill
KQ-91-131A

- ~ 20m above ice
- pale frags have 26
ragged edges &
might be pumaceous
- sl foliated & s. sericitic
~ 30mN (near ice)

003°/77° (E)

good on fol.

- ~ 5-10% ang.
flattened clasts (pos. some wh?)

- some lap. tuff & breccia
@ dark carbonaceous
(sed. matrices)

000°/72° (E)

good on fol. in
fol. pale ser. tuff
(similar ragged frags as 131A)

- units trend ~ NW @
steep NE dips
most fol. & vel. mas

- some units buff
carb alt frags

- some thin grey
bas. br. units @
amyg. clasts

degrees of alt., sh.
& tectonic veinings
(qs-carb.) incr.
to - most br. and
polymineralic
- numerous stretched
dark argillite fragments
make this unlike
Betty Cr.
- mainly sedimentary
debris flow breccia
(few are even sl. matrix)

1252m
- ~200m rocks (some)
are quite intensely
alt (sp & ser)
w ~5% diss.
& some green
stains on rocks
which might be
arsenic stains
KQ-91-131B

~5-10% gasL veins
in area

- even flattened 27
tectonic veins

- some alt. br.
to R

~100m N 1210m
Near toe of glacial
203/78° (E)

fair on fol.

pale
same high alt.
ser. (pyrophyllite?)

KQ-91-131C
but
climb alt. fragments
went 100m down str.
to sta (some br
some layered like fragi.
& dark carb. areas)

DR1-59-1200m
- ~120m from
along str. toe of gl.

large body grey br.
& many nasty o/c
to N & E

28

Camp 262

Summary

- 1) Felsite unit is very thick (>200m?) and could be Dilworth. Dominated by rel. mas welded tuff & lesser flow-layered spherulitic rhyolite near top.
- 2) Breccia units above are typical for any unit. They are unlikely Betty Creek because of the abundance of dark argillite clasts, lack of prominent bedded units with abundant sedimentary features. Many of the units are probably thick sedimentary debris flows.