

021654 *Ono Oya* 1:5000 1981

(Mon) May 25 - Tulsequah River → N side Shazak Creek

R6 Basin - felsic gneiss. Finely lam. variable S_1 004, 56° E
25m S S_1 015, 56° E, L_1 -20° NE ± mafic gneiss

R7 'Nose' fels gneiss. finely lam. tightly folded
 L_1 007, 23° NE further S_1 010, 23° SE

rel. massive outcrops - then laminated

R8 Variable felsic gneiss S_1 175, 23° NE, L_1 018, 6° NE
folding variable. tight 20m further S_1 162, 31° NE.

R9. felsic gneiss → Interm gneiss mod. weathered
 S_1 075, 55° NW!

R10 Same S_1 132, 27° NE, L_1 042, 27° NE Festn
a little further (30m) S_1 040, 52° NW!

R11 Schist. gneiss dk gray streaks sh. folded S_1 - 000, 12° W
(foliation not prominent)
then S_1 in felsic gneiss 180-50° E ± dk gy gneiss

R12 felsic gneiss lt pink-gy ave 155, 56° NE
 L_1 43° NE
one blob Actin 16x30 cm sl along 116° W

R13 small ote Int gneiss ^{schist} str foln 162, 77° NE
 L_1 - 14° NW some contorted qz veins

165?
set
@ 150m

Up side

160m tightly folded Interm gneiss rubble ote beneath tree
then bench -170 - valley 153°

other side felsic gneiss 172, 76° E - q-f - + musc. band
good foliation

180m valley @ 175

R1A. Massive f-metgr syngneite

up steeply

200m Felsic-interm. gneiss S_1 variable 175, 40°
 L_1 178, 35° NW

220' small ote. mass Dac &

240' similar ± fgr & dion?

245 m Str fol augen gneiss S, 140, 74° NE
± Qv-lens

Valley @ 170-175

L1 255 - should be 235

R16 275 Granite gneiss S, 003, 80° W

R17 280 " " @ R16 S, 003, 80-90° L, 23° N

R18 285 - top to W valley 010

R19 290 m E side top rubbly etc felsic gneiss - weak mod foliation

R20 300 m Felsic green S 080, 76° N

⊗ Change elev → 285 m.

R21 305 m felsic green weak mod foln S, 090, 42° N

R22 318 m Int green v. grey & hornfelsed dacite
S, weak @ 176, 5° E

@ 325 m S, 110, 30° NE 330 m top of knoll

R23 348 m felsic gneiss ± musc S, 100, 13° NE

R24 355 m " " S, 103, 13° NE

R25 365 m " " S, D80, 78° NW! contains missing

25 m further @ 367 m el. S, 167, 82° NE

R26 45 m further @ 365 m el S, 160, 69° NE, L, 40° N

R27 373 m SDict f, b. phanos massive, med gr + fragm.

then major fault valley 173°

R28 395 GDi (low Qtz) med grained massive

R29 410 felsic gneiss str fol S, 113, 66° NE

R30 " " str fol S, ≈ 105, 40° NE

R31 430 " " + Qv lens S, 095, 35° NE

R32 440 " " S, 089, 27° NE

R33 top 455 m. contains not quite right!

Brg ~ 150°

R34 45 m cliff - felsic gneiss S, 119, 36° NE

(450) to SE & lower S, 140, 86° NE, L, 26° NW

R35 420 fels gneiss S, 154, 67° NE

R36 420! fels gneiss S, 082, 42° NW

R37 " " F 329, 20° NW, open wavy about F,

⊗ 1410 change to (20/05) up to 40° dip contmb

R38. 380m. Rubble etc F. mod gr Sy-Gde

then valley @ 045

R39. top + side pyrite div'd in felsic gneiss

folded? no good foliation

then ± rubble same. Valley 355^m - 023°

R40 Felsic gneiss S, 175, 46°W (350m)

295m valley - 035°

R41 Cliff top - ~290 m massive Dacite in part

w/abund pyrite

to NE & above? massive intermediate rock

J = S, weak 104, 18° NE

Below Dpy S, 045, 26° NW @ 270m

R42. Valley 235m long 040

Change to 223 20m another valley 030

R43 230 - Mass dk-bluish gran A, locally abundant

py veins → Fe stain on fracture (prominent)

R44 180-175 base of cliff - massive A, D. with

abund pyrite locally - in layers? some A fresh

pyrite = rx @ 0NW-04A to NE.

R45 150m sl pit Dac, mod py, Fe stain S, 141, 48° SW

to W of etc good S, 132, 41° NE - reln.??

R46 to rd continues weak etc 30m 126° 34° NE.

mod py - Fe stain

in little further strong F₁ = L₁ 316, 12° NW

Falkensp dips ~ 127, 46° NE Anticl to SW

R47 150m. massive Dacite sl pyd.

R48 150m. D sl pit 039, 34° NW mod py.

30m further same D S, 068, 34° NW

R49 140m D as before F₁ 332, 16° NW py ±

S, ≈ Falkensp. = 062, 16° NW

30m further S, 142, 14° NE - filled about

F₁ = L₁ as @ R49

R50 Str fol Dtmnt. S, 094, 35° N (~~142~~ 142 m)

R51 Same S, 143, 25° NE

Same tight F, warps of S,

R52 Same S, 063, 8° NW

R51 Creek - 40m from R52

N of creek FB & Gdior = Syeno dior

R54 Sdi as 53 J. 092, 20° N

variable grain size & ϕ

R55 140m Sdi as 53 locally coarser

Up creek @ ~165m \rightarrow fol Dacite \pm py

S, difficult to determine

@ 170m S, 144, 66° NE

180 S, 140, 58° NE

blocky for dacite \pm py

182 D & dike 033, 90 creek \rightarrow 140°

20 m dike

195m One week fol 120, 65° NE

200m " \downarrow " " 130, 40° NE

R56 215m Str fol felsic green fgs 130, 38° NE

blocky weak

57 Main creek 215m S, 050, 78° SW

190m S, 047, 90°

thin ϕ dike 20m 040 190°

Back to Green

15 (27 lines) - 9

R58 med fgs & Sdi-Gdi massive \pm py 160m

R59 med gr Gdi grey \pm py

R60 " + some Dac ϕ , pl-Bi ϕ , dike?

R61 190. Fgr OA-AD dke 023, 85°SE

2m thick?

62. Pl. d. dac intr. on E, low rubble Gd. M. H. p. grey.
232m

260 top of waterfall

to W mass Gd + f. lt grey dike 10-20m wide

to E fract H-AD ± f. dk green

63 270 ~~along to~~ (=260)

AD. ~~at~~ top of fgr

fault 057, 69°NW cuts

± then rubble, etc AD of fgr

64. 325m bend for Adike 032, steep
-20m.

65 340 large etc

E - Coarse AX broken rock

fault 080, 80°SE 2-3 cm ss

much broken rock

to W Dac d. intrusion bx then massive

66. Large etc Bx dac - Gd matrix ± py veins

locally abund frags 2-10 cm

faults 082, 85°N two strands over 35 cm

105, 70 SW - one zone -

intersect - 7 relins

67. Adike 2-3m 059° cuts coarse bx
porr etc bx

68 @ 400m Adike 040 - creek → -090°

68 415. Fil. Gneissic dacite 171, 18°W!

69 450 " 090, 31° N cut by med gr Gd
intr. - dike? contacts obscure

above 455. S, 010, 58° SE

Fault 2-10cm 160, 65° NE

W of fault - f. Dac intr. 1m

then Long Ad. 037, 81° SE 3m

480m mass fl dac S, 170, 76° E

490 S, 150, 82° NE

good etc → 500 then poor

520 3m Gd dke @ 070

auto vel mass sil dac

68 527. Fol Dacite 017, 34° NW

69 565 ridge 070 poor Gd dke

then well fol fibe green - Dec 102, 37° S

70 600 Str foliated fibe green

Li-Fi 345, 11° anticline to W.

@ 630m " S, 138, 86° NE, Li-Fi 2° NW

650 S, 165, 79° NE, L, 3° NW

71 715 Base of cliff Dh gray schist green

Mela sil S, 155, 82° NE, L, 5° NW

735 S, 160, 83° NE L, 0 ± 2°

72 775 small etc same S, 155, 90 L, 10° NW

73 792 " " " S, 160, 90 L, 17° SE

74 810 " " " S, 160, 90 L, 11° SE

slight variations of S. Horn out but no good flds
here dk green finely layered full sil + sil
valley 155

75 830 Dac Luff well foliated S, 168, 78° NE
L 2° NW

76 870 " S, 155, 78° NE L, ? valley of S. ridge - 030 ± of green

77 850 S, 158, 90 L, 0 ± 2 def

near 900 S, 115, 40° NE - in field west

78 910 → 933 check others

S, 162, 85° SW in str fol sheared dac + dke

79 938 S, 003, 90° some strong contortion "

finely lam Dac greenish

80 across valley 155

S, 155, 90° to 100° W same rx.

down to S too much down

81 920m Dk till finely lam S, 065, 40° NW

900 Over amount to E

82 885 L. Dk gray, seeds S, 191, 55° NE

not, within lam. shells of grey

not too fissile

83 850 QF greens S, 125, 57° NE

84 790 Pelvic & mussel greens S, 010, 54° NW

main creek better S, 042, 23° NW

775 S, 060, 24° NW

The steep section of creek

755 S, 052, 58° NW some carbonation

Seeds Pelvic greens etc.

some sleep fields to W - Anted to SE

750 S, 073, 30° NW

color banded

738 S, 086, 31° NW

730 - fault? or zone irreg. no good S, Fesh

725 Pelvic green 070, 59° NW Fesh

below dk grey, seeds

720 S, 059, 60° NW wrapped

E gently → NE

715 - 30 cm QF green comp ± P3

710 - 063, 35° NW S, - S

705 w/c S, 105, 31° NE ? field

Sydney? plumb, n.

more green, must have Dts

700 Dts S, 042, 41° NW

flatter 692 S, 083, 42° NW

} rx
same
out folds
Ant
→ E

- 660 S, 045, 45° NW
- 675 S, 028, 35° NW in pyrite
Dacite well fl
- 665 - 3.5 m Adike cuts across 027°
75° SW Pink flag!
- 660 - 690 med gr Gdir pink-gy
- 85. 580 - fine Gdir - grey hld
massive
Jet it creeds
- 570 S 001, 29E ϕ Gd blind Klijc
near edge?
↓ same
- 500 1-2 m Adike 030, steep
- 495 1-2 m Adike 033, "
in H grey fine gr Gdir
- 415 → ϕ Rl ± Hb fine Gdi - str fault
creek from W
- 400 Hornfelsed Andes ^{so. S.} 165, 70 SW
loc blind py on fault.
- 370 creek from W
below jet rubble etc Ax, A
cut by blind fault 075, 70 SE
- below is m gr Gdi str J 065, 31° NW
several fault seams || J and others
still very rubble
main fault in Cd 083, 81 SE 20 cm
- 370 base of fault Course Ax masses
frag → a few cm
- 360 more ^{frag} in Ax
- 355 to E - A - Adike head 040 3-5 m
J. 095, 32° S
- 350 another Adike 3-5 m 032° steep
- 340 creek from E

- 86 355 above jet Pyritic Dac - DA some
shows foln, some massive DA ϕ .
- 87 ~~300-315~~ m. d Gdi ϕ Pl. phenos massive
- 88 300 - jet d Gd + Dac ϕ
280 or jet. d Gd py massive.
up creek to E.
→ 310 Massive etc d Gd - DA ϕ .
appears gently dipping? to SW.
315 minute fault - bx Gdi or
by creek above str. hays as if from
fault bx.
345 band in cr. Lt gy bleached, fract Gd
med gr \pm py.
- 90 300 to N Ax J. 065, 78° SE = S?
to S d Gdi - DA ϕ intr
- 91 thin etc ϕ , A, sil and w py veins (med)
- 92 top of wall A-DX frag of ^{wall} ~~stone~~ \Rightarrow 15 cm
valued pyrite massive
- 330 Ax w foln? 012, 36° SE.
30' west Ax S, ? 160, 25° SW
- 310 creek 35 m felsitic etc 110, 90
veg. Str joint - joint
cuts Ax above sil Dac frags
to E 285 very pyrite rd Dacite
mass part of bx.

May 28. Knob N of River

93. 210 m. very finely laminated DW or t -
S₀? 112, 21° NE
- 94 230 m same as @ 93 - S₀-S, ? 106, 34° NE
- 95 237 m Same as 93 S₀-S, warped 108, 15° NE
= nose of antiformal.
Qtz lenses || S₀ up to 2 cm thick

96. Same. S₀ 118, 9° NE

o almost definitely welded tuff (flow) ^{poss.}
some to small ^{Qv} ^{Qv}
zones → 50 cm thick

beds dip gently W

~ 20 m further W ? S₀-S? 135, 38° SW

10 m further W S₀ 150, 72° NE thin lam

siliceous Dw.

97. 320. Thin lam Dw-ts - sil contented S₀ 090, 60° N

Anticline to S?
3 m higher S₀ 125, 27° NE

98. 330m At first Bx - frags of Dw several cm across - 1m. ^{various} orientations

then S₀ more uniform 078, 12° NW variable

some incl Gdi Hb-pl φ. up to 30 cm

w side of ote S₀ 150, 76° NE

99. 365. Bx frags → several m in various orientations

numerous types Banded, massive dacite + Gdi

Some py rich zones in matrix

100. ^{Gully} Creek - and last year Bx to E some coarse frags,

Some frags Gdi, Gdi φ S₀ common ≈ 075-090 20-30° NW

↓ Abund py v in rubble up to 1mm thick

up var frags Ats - D. mass sil Dacite (possibly = gm)

locally abund py in patches

101. 3-5m Dac like massive 020 steep

102. 430 Dac dike 10-30' wide 018 steep

103. 440 Ats? 108, 10° NE swing to 172, 31° E

to W in ^{rully} creek + then Dac dike || 18t

104. from 490 Dts? bx?

@ 510 well banded Dwt-ts S₀-S 127, 71° NE

top 535 - change → 550

105. Dwt - as 104. S₀-S, 013, 57° SE

106. Bx frags Dwt, Dsil, ^{Qv} ^{Qv} - various orientations of fragments

107. 640 Rubble, etc mass Dae, Dae br? Some py

108 655 D, py rubble, etc

109. 675 Pl of dae like trail ~ 175° mass w

110 600 Gd of Bi, pl of ± Q of massive

next creek @ 020°? major 680m

685m creek → 160° pl Andes 159, 76° SW

111. bend in creek to 130°

pl dae ± Mass dante S, 020, 80° NW

715m - Gd dike 3-5m 030 steep SW (85°)

720 bend in creek - 120° → 140°

below ± dante then massive med gr Gd ± pl. dike
thin cherty zone. Dnt - ts finely laminated

S₁-S₀ 015, 80° NW Grad to Afs.

@ 735 Afs ± py loc mod Fe St. L, 13° NE

112 755. finely lam sil Dae wt S₀-S₁ 140, 28° NE

770 Adike 020 vertical

then Gchiorite med gr - massive

782 Adike 1m 020 vert

bend 795 - Adike to SE

to NW. thin lam mudstones - dk grey.

S₀ 016, ~~mod~~ folded variable mod - strong

S₁? 016, 70° NW.

Up creek → 810. same hard to see Bdg in sed.

113 820. Dacite (mudstone) S₀ 044, 19° NW

114 825. Dacite buff-sed? So very variable,

Some massive Dacite @ top of otc

115 850 Dae wt good foliation 064, 30° NW

to W ~ 30m S₁-S₀ 081, 32° N very thin lam Dnt

W end 60m S₁-S₀ 080, 25° N

116 831 Dae Seds - med-dk grey - siliceous

finely lam - grad from 115 S, 086, 21° N

Some tight folds

5

N

117 820 Pyritic Dae. tal (w) v. gr finely lam. S, 041 27° NW

118. 105 Seds / Pacific Basin, len $S_0 = S_1$, 047, 65°NW
- 119 790. Dac tuff. fresh lam S_1 , 012, 84°NW
 Just below 176, 63 NE } contorted
 785 m. 146 S. 1 NE } $F_1 = L_1$, 358, 15°NW
- 120 Dac tuff very variable, poor developed foln.
 generally mod-steep but strike 124 → 40°
- 121 710 cliff // slope Dac-massive + bx some
 str foliated zones or frags up to 2m across.
- 122 700-600 G Dior f m gr.
 ote str fract - resembles dacite
 Small ote ~~at~~ below - Mgr G di ± py
 ridge 035, valley - 020
- 123 ⁶⁴⁵⁻⁶⁵⁰ next ridge 020. G Dior } map a little
 124 ⁶²⁰ Ridge G Dior } off here
 125 Bend from 015. 172 m creek. } rolling country
- to E massive Dac flow? blocky jointing
 Down creek Bend @ 595 to 045°
 Alt @ 580 - correct
- 126 bend. G Dior like? - 035-045°
 Sof creek mass lt blue grey Dac py
- 127 Jct 540m @ map 565?
 contact fm 125 m creek.
 G Di mod py to S.
 Some str contorted foln in Dacite
- 128 fgr G Dior great? into f Dacite?
- 129 510. curve all f mgr G Di, loc mod py.
- 130 470. base of art at curve.
 Rx are fgr f G Dior & Dac py almost fact
 with k-stain. Poss rock is G di massive
 Just below contact w dacite py massive -
 becomes more aplumitic to 131 @ 420 m.
 top of waterfall 415. flatter here = Str 92.

131 - 370m Dac & intr

132 - 330m Dac & intr poss cutting Ax -
rubbly zone - some Ax. no good structure
can't really tell if it is a breccia or not.

325 Atff. w coarse Hhldes \rightarrow 2-3mm

S₁? 150, 30° NE. low 080, 20° N.

on nose to W S₁? 055, 37° NW

133 300m. Ax frags 3-20cm of And & Dac.

↓ poor exposures to show texture - variable S₁
280 between frags.

May 29 - around Kumb

134 200 banded Dwt-ts S₀ 129, 45° NE

just before 99 S₀ 095, 37° N

135 315 above 98 S₀ 051, 38° NW in thin lam Dwt

(map wrong here)

@ 360 above S₀ 085, 48-55° NW

on edge of bx zone?

Cliffs above appear to be bx

136 ⁴⁰⁰ Below fine bx Dac. various frags 2-5cm are

locally abundant by

to NE cliffy zone continues to SE open land

here S₀-S₁?

137 - 430. continue Bx frags 2cm - 5m banded rhy-
massive rhy. Q veins & patches thruout bx.

138 - 480 D. Dc. text difficult to see in places.
Mass + fol Dacite

\rightarrow continues to 139 - more massive Dacite

Poor Dc to see texture.

140 530 Dac x? Some Dwt 132, 83 SW

+ massive Dacite - siliceous

141 Dc siliceous massive + banded frags.

560 ~~140~~ ¹⁴² Same as 141

610 m

- 143 DX py - fine - coarse ^{med} generally
mod Fe-stain patches, 1-2 cm coarse py
@ 620 - s. folded, coarse 1700 ft
- 144 650. Dac X pyritic as @ 143.
above 670 small outcrop - same DX
- 145, 146 small etc's Gd f
- 680 creek cut 190 straight
- 147 Plag hb & gdwir fgr quartz - massive dikes?
- 148 700 - Gdwir
- 149 - 715 - Gdwir f.
- 150 - 790 ⁸⁰⁰ Base of cliff ADt - wt - as Dac wt but
more chloritic S, S, 108, 25° NE. variable
- 151 845 - Dac massive - sl fol S, 111, 33° NE
- 152 870 - DAT ~~etc~~ str fol S, 137, 83° NE
Strongly banded ± py lenses || fol no Fe stain
- 153 880 m Dt siliceous 161, 26° NE
across creek film steep as at 152 rubbly etc
- 154 900 Fine siliceous Dac X frags 1-10 mm
Some coarse
- 910 S, 138, 75° NE
- 155 918 DATs S, 162, 85° SW
-ADTs just above S, 000, 85° SW same rx
- 156 935. ATs - S, 158, 76° NE
- 157 930 DATs S, finely lam 063, 23° NW → 031, 35° NW
Winged about F 000, 12° N
- 158 900 DATs thin lam S, 115, 38° NE
- 159 900 Dwt S, 077, 18° NW
011, 76° SE, S, 165, 65° NE
890 S, 080, 23° NW
- 882 S, 143, 52° NE below
160. 870 S, 170, 60° NE 865 S, 145, 46° NE
161. 850 Str folded S, in Dwt - ts
F 000, 18° N, S, 177, 78° E
162. 830 Same S, 173, 85° E

163. 800m v. str. fol Dnt S, 173, 65° E

790. Dnt? more massive can't see good

foliation

164 750m Gdi ridge 023° Fm gr

Creek Jct @ 710 should be lower - 695

165 690 Gdi & ridge - 035°

166 600 Dx py frags 3-20 cm poor utc

167 570 mullite AD py bleached near py

168 545 Dx py frags 10-20 cm py in frags

+ gross abund Fe stain

Frags of A, D.

Sleeper than on map

169. hwh contact to W. Gdi - pyritic

to E D-Dx - pyritic

170 940 to W Pyritic A-ADx

to E & Dac dike

below ~~the~~ same Py Ax saw coarse hblde

porph. py frags abund. Lm stain

@ 910 - J-5? 080, 16N

171 390m Dd as dnt to W

then Bx frags A, D, Sil D, mass - fol up to
several m across. mod-abund py in frags + in
groundmass

1' A dike 063 90 wenders up face

→ base @ 275. Much more AT-foliated +

hblde phenos in this section,

at creek altimeter ~~15~~ 20 m high