JULY 17 017926 A-1

A-1 So 004/11E poor
Massive angular blocky
fine xotalline to cherty silica) Grey,
white weathering minor py + rust. Prob tuffaceous chert.

A2 What is the big mountain at 080°
①→② Dark to med grey light to
med grey weathering relief weathering laminated
sparkling to cherty tuffaceous chert + tuff

3.	Do.	So	177/15W	Pool
		Sx	342/7	
4	Do.	So	103/23N	
5	Do	So	164/59E	
6	Do	So	106/31S	
7	Do	So	138/43S	
8	Do	So	153/29S	
9	Do	So	096/17S	
8→9	Do			
10	Do	So	136/20S	
11	Do	So	088/20S	

12 Grey slaty float

13. S0 161/19W

Do 11 etc

Blocky massive [illegible] relief scattering pale w/ grey sparkling cherty silica

14. S0 157/45NW

black qtzose slate [illegible] chert

15. Do S0 005/45W

16 Do S0 127/29S

17 Do 11 etc

S0 035/17E

18 Do S0 125/33S

Rusty

19 Looks do 17/18

20

S0 164/46W

jting S1? 169/16E

A-2

21. lyrite dk gy w rusty ik gy qtzite.
Massive, almost looks basaltic
not bedded A 21
overlain by grey rusty qtzite slates
S_0 174/36W
S_1 177/70W

22 Do sulphide rich A 22

23 Fissile black S_0 034/32W
rusty qtzite slates
24 Qtzite A-24
25 S_0 116/80N
fissile tuffaceous qtzite
26 Grey qtzose slate
27 Rusty tuff chert
S_0 080/40W
fine band
28 ao 26.
29 Do 27 174/25W
30 Grey-black banded chert
& qtzose shale
31 Do S_0 163/60E
30-31 Do.
32 Heaps of siliceous cherty tuff ao ① etc

33 ao 30, 31.

folded - F 84/11

Aug 4. A-3

Posts at 101 + 50E
130 + 70N

101 + 00E
115 + 50N

103 + 00E
245 + 00N

B.L. CROSSES CREEK IN VALLEY
253 + 80N TO 255 + 80N

(34) Float + heave of tuffy chert. 1/10" parting, fresh black v. fine sparkle 100% silica. Relief weathering brown/grey streaking + banded.

(35) Grey slaty [illegible] → 36
some cherts + tuffy cherts

(36) White weathering, light grey fresh relief w. streaky laminae tuffy chert
A-36

37. Po

So 163/67 W

38

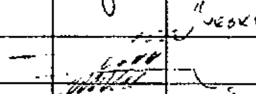
V. fine laminated white w. pale grey
fresh, sparkling silica, which w.
so 167/20E [illegible] A-38
37⇒38 scattered o/c Po + abundant
float of grey slate

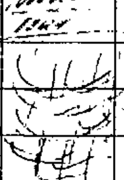
39 Po vesicles ∠ to so of Hal

40 Po so 103/75
rusty at base.

41 Po

S1? 144/17S
Sx 313/6
a lot of odd structures





cross cutting fissure
type structures.

42 D_0 A-4

S_0 141/43 S

43 1B marble / tuff

S_0 121/40N S_1 [illegible] [illegible]

marble as [illegible] / boudin-like

44 D_0 1B / lst slate S_0 138/26N

[A lot of massive silicic material in it though] S_1 160/67SW

S_x 339/10

45 D_0?

Fractured silicic with [illegible] veins, Massive, [illegible]

S_0 114/59N

46 1B grey slate / lst

47 grey slate chert (black)

↓ – grey slate + chert, some volcaniclastic grit

48 Black chert.

49 1B lst / tuffs

marble o/c opposite on S side of gully

50 S_0 133/51N

looks like vesicle - may be altered lime trains are S_1

No. 304 limey silicic tuffs

S1	Vesicl/s, and tuff.				
	S_0	180/42N			
S2, S3	D_0				

Aug 5

A-5

(58) fissility may be S_0 136/26 S

Qtzose black slate and black ~~[illegible]~~ fine-grained fossil qtzose rock — impure chert

54 - 57. D_0

(59) D_0 heave.

(60) D_0

61

62. S_0 115/29N var

fine ($\frac{1}{20}$") banding in tuff to tuffy chert

some syn-bedding crumples

63 D_0 tuff / tuffy chert

048/22 NW

slate w- planar struct.

64 S_0 003/37E

D_0

65 D_0 S_0 158/16NE

66	Po	}	Massive black,
67	Po	}	white v. silica
68	Po		tuffs + tuffy cherts.
69	Fine gm tuffy cherts		
	So 166/25W		
	black/grey v.		fissile-massive
70	Allot of 'black' chert float		
	+ one block of chert fragment		
	loc float		
71	Aphanitic chip v. silica tuffy		
	So 058/16S		
	coarse	dk grey slate float	
A-71	of - (37) → (68)		
	weathered out bands may be lime.		
72	IB Lst/tuffh.		
	So 028/24E		
71-72	allot of grey slate float as in IB Lst/slate.		
73	Po 71-72		
	& any black chert		
74	So 082/27S	Black bedded chert.	

75 Black chert. A-6

76 Bedded white w. misty grey gychert
S₀ 054/36 NW

77 S₀ 081/22W

78 Float - heave of black chert
some jasper

79 Float slate as in 13 lot slate
80 float laminated tuff / tuffing chert.
81 S₀
S₀ 162/40E
Laminated light w. silica

82 S₀
173/36W

83 S₀ 133/27S
Massive crtbag bed
84 float q-v.
85 S₀ with a lot of dark slate
+ q-v float

86 Pe
87 Po
88 Po + a lot of dk grey
gtzone slate & arg chert float.

89. So? 171/15W
Party in blade rusty a gry/tuffy?
chert ~ slight sparkle

90 Float of grey black aphyric slate + argillite.

91 Fine laminated massive tuffy chert
So 036/65E
Black fresh, v fine crystalline

92 Grey, slaty

Aug 8, 1973

A-8

(93) S_0 022/21W

Many be S_1 — close possibility in grey slates.

(94) 1" bedded argy/(tuffy) black cherts.

S_0 147/29S

S_1 108/61S

S_0 163/32W

(95) S_0 010/15E

Fine lamination in blocky argose (tuffs)/tuffy cherts.

96. Grey arg slate + arg chert float.

97. Tuffy chert?

Posts at 167 + 30N
100 + 40E

Ariel line cuts B.L. at
154 + 60N.
152N, 96E cuts Ariel
line as brushes give way
to stream bank

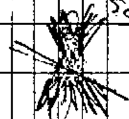
POSTS AT 152N, 100 + 30E

STREAM AT 139N

AUG 10 A-9

97A Float/near of grey v. slaty
tuffy? argillite
dk gy fresh v. fine crystalline silica
fine banded/

98 S1 127/44S
Sx 154/5



fine banded slaty gy w.
dk gy fresh

99 S0 067/46 NW
Banded likely tuffy chert
rusty mid gy w. dk gy fresh

100. l0 v. tuffy looking banding
S0 143/12 SW

101 l0 " "
S0 137/20 SW

102 l0 l0
S0 113/11S
Black chert pebbles or fragments
in it
almost till-like

103 Do Do 132/11 SW

104 Do Do 051/21 NW
white w.

105 Do do
109/23S
light grey – White w flaggy, well bedded.

106 Do. 067/22 NW

107 Do 023/27E white g/c
Do Do
grey fine banded v. tuffy w [illegible] looking

108 Do grey w fissile
109 Do White w. blocky.
110 Do grey. shaly

111 Do so 124/29S
blocky white/grey w.

112 Do blocky white w. banded

113. Do g.g.w. | fine banded. A-10

S_0 093/35N

114. Pure white w/
v. pale grey f.
v. fine grained silica
S_0 066/29 SE

115 Do.

116. S_0 ???/6W VAR
Blocky white/grey w. banded

117 Grey slate
S_1? 125/65

118 Massive white w. silica banded/blotchy
S_0 121/15S

119. S_0 081/21S
fissile gg fine banded // fissility
thinly? chert?

120 S_0 128/18N
White w. blocky / banded

J. L. DARLING CORP. TACOMA, WASH. 121 No. 304 Do

"Rite in the Rain" WEATHERPROOF

Aug 14 A-11

(122) s.o. 138/20S

White cream w. grey f.
silicic tuff, bubbly structure
chief w.

123 Po So 090/13N

124 Po So 121/26N

Herring 29TH if no fare → Montreal
8TH if fare
+ possibly Ungava

JON, RAN. 1ST WITH FARE
KEN

BIDS FOR NANSEN DRILLING
FROM ARSENAULT
TONTO
CARON
CHECK ↓ COMPARE.

June 27

B-1

1. Int-(acid?) volc boulder field
Massive flinty (not-conchoidal)

2. Do

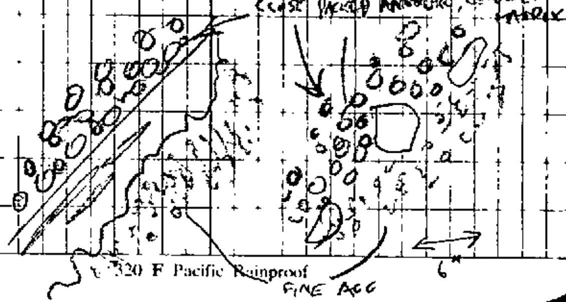
3. Material with elongate vesicles
prob odd pillows, some fragmental

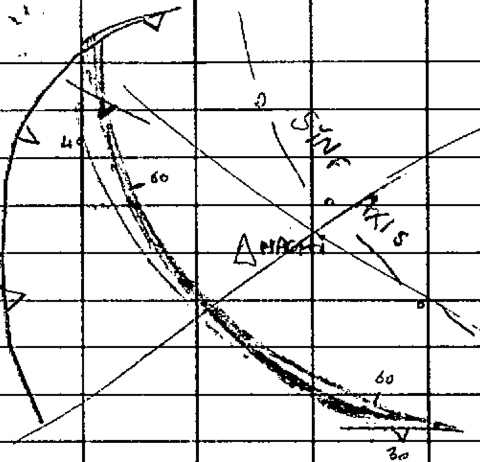
4. Do V. variably vesicular volcs.

5. Vesicular volcs (variably) perhaps more basic (darker 'trace' foliation) than above, without pillow struct but with internal chills + inhomogeneities

6. Cliff dominantly fragmental
= some int (acid) vesic volcs.
S. 098/30 S

7. Do
S0 124/60NE is lime less
& agg of size difference





l_0 S_0 003/16E

8. l_0

S_x 133/26

S_0 161/48E

S_1 103/21S

9. Band of uncal'd agg may give bedding strike.

10 Orange carb

11 Unit 7 type rocks - felsic?

12 Alot of massive vesicular int volcs in with agg/lox.

13 S_0 124/36N

odd textures, some frag, some with diffuse banding or ghost frag text - alot of carb.

Intermediate (to acid) quench breccia lesser bedded agglomerate, minor massive to fragmented unit, vesic volcs, sometimes pillowed (P) minor bedded tuff often carbonatized or rich orange carbonate matrix

14 S_0 088/42N
S_1 087/27S
S_x 088/0
Aggl with massive volc ~ (9)(12)

15 Vesic Volcs S_0 166/29E
145/21E

16 D.

17 Mini pillows? L-17
Conglomerate?

18 Fissile mangy? stoneless horizon

19 Aggl + frag volcs
S_0? 021/26W

20 D.
S_0? 066/30N
lensy layers in frag volcs.

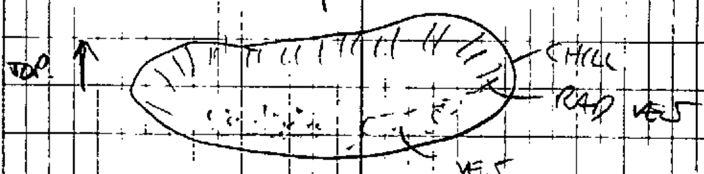
21. Is S_0? 124/48N
Prominent fold on crest of ridge

22 Graph data
S_0 086/66N
looks like S_1

S_0 070/69N
S_1 099/37N
S_X 055/34

22. Rhyolitic fragmental of Rouyn +
23. Columnar rhythmic diorite?
could it be more basic L-23

— rusty pitted weathering
24 Beaut o/c pillows extending
down main cliff a least 200'
25 D.
26 gray Limestone band in pillows.
s.o ?. 165/37W
27. Beaut pillow o/c



THIS IS UPSIDE DOWN IN o/c

28. Minor float of banded tuff

JULY 2 B-4

24 Pillows extend at least ½ way down cliff (~500')

29 Fragmental

30 "

31 IB fine + coarse tuffs + fragmentals

good { S_0 077/34N
S_1 088/29 S
S_2* 258/6

32. Bear trench of or. carb'd coarse tuff with lots of phyllite nearby.

33 Boulder field of ~~coa~~ massive tuff with ½" partings (beds?) of or. carb every 6"

34 Two posts – tagged No 2'0 Y 61956, 62072

Much boil of grey phyllite.

35 Pillowed limy vesicular int volcs

36 Agg

37 ? 37 → 35 dominantly massive to fractured, yet limy vesicular intermediate volcs. May be coarse-tuff or indistinct pillows.

38 2 posts No 2'o
Y 62479 + 62480

39. Fissile tuffs, vesic weathering grey to buff limy bands. possible pillows at north end

40 Agg S_0 170/41 E good.
quite a knobbly acid agg

41 Po knobbly lime matrix

42 Po ? S_0 144/56 NE
var?

43 Int pillows + voles.
44 Float coarse bedded tuff
45 Pillows + a lot of
orange carb.
46 Float fine bedded tuff.
47 Schistose agg
↓
48 carbonatized schistose agg
Much of carb - face below 48
49 Po.
S_0 ? 115/4 N
S_1 084/30 S.
50 fine agg + bedded coarse tuff
51 Pillows some 4' x 2', without much glass matrix - gray lot matrix - right way up. only horiz "bedding"

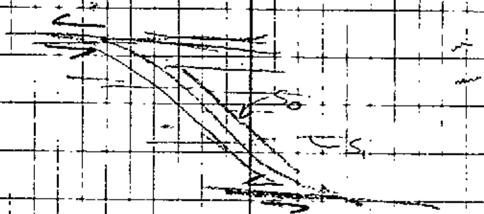
52 Pillows

53 Massive tuffs with or carb vesic weathering.

54

S_0 065 / 9 S

S_1 142 / 18 N



Or carb along S_1 = shear along S_1

Bedded siltstone L - 54
overlain by v flattened carb'd pillows.

55 flattened pillows

56 sheared frags between 54 + 55

57 Unit 7 and long faults

58 Flattened pillows
overlying fissile carb'd tuff

15TH Aug (66) 1972

Cloudy, sunny patches. B-6

(59) Fol'l gt S_1 157/14E
(1)

(60) Fold coarse T 132/15s
(2)

immed above (2) - vertical (S_0?)
band of orange coarse T
more likely alteration along
carb vein
trend u. approx 040.

(61) carbonate rodding 96/3
(3) S_1 - 157/9

(62) Pillow
(4) cren (clubs?) 030/60
D_2 cren 312/6
jting 135/30N
5x 313/2
S_2?

(63) 100' upslope from (4)
(5) S_1 129/9

better fol'd med-dk gn.
lensoid appearance may be combination
of S_2 + primary structs

008/12 S_x — of — S_1 — with variable
cuspate S_1
= S_0?

Immed above (5), 100' above (4)

breccia in limy orange matrix
with some basal pale
green meta T.

(64)
(6) Basal limy T
into poorly fol'd fine 144/12W
med gn
into pillows

(65)
(7) GP?

S_2 120/53N
to cr cl. F_2 346/39.
↑ HMMM.

50' down ridge (67) B-7

ordinary P.

S_2 alot less dominant

S_1 dom. BEE'S NEST

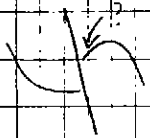
META T

P

(66)

(8) Pale green bnded? S_1 161/45W

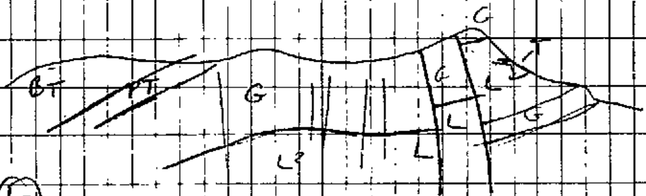
Meta T F_3?



TANG 178/52N

Tect under coarse intermed gst.

looking across at tt



(67)

(9) med-pale green fine banded? T

coarse 3/4"-1" S_2 + dom to close F_2

S_2 ⊥ S_1, 0/c plunged

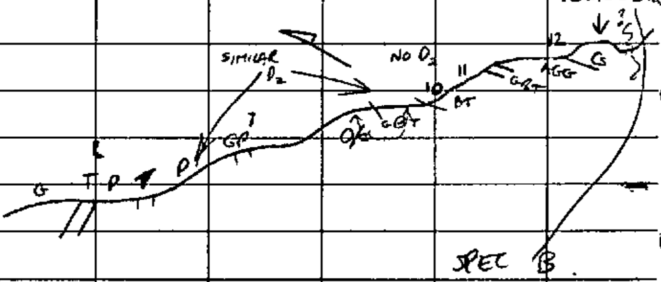
J. L. DARLING CORP. TACOMA, WASH. USA No. 304

WATERPROOF

(68)
(10) GBBT ?
(S_1 //) S_0 132/35N
sandy beds - ¼ - ½" - attenuated ?
? S_2 not cleaving, v fine
SPEC A. Y-150

bluff is ridge due to GBBT
underlain by GBT + then lime T
to O/CARB.

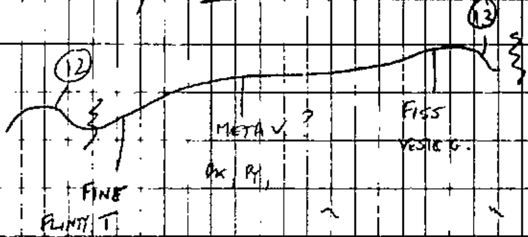
Prob right way up
(69)
(11) D_0 S_0? 13 / 37 N
(70)
(12) S_1 137 / 27
el massive mesocratic gst
overlying agg overly GBT
over (11)



SPEC B.
Y-151

(13) (71) (48)

S. 178 /27 WEST ∧ FAULT B-8



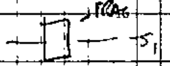
(72)

(14) as 13 Platy weathering → AGG

but coarse px T.

(73)

(15) Massive skarn unzapped AGG. flattened

e.g. 

(74)

(16) mod zapped agg 048/19NW

weathers different — v knobbly

— due to non-flattened pebbles

(75)

(17) ho 163/36W

INHOMOG ZAPPED — SOME MASSIVE SOME

(76) FISSILE CF — N OF BASE CAMP.

(18) 046/27 N.W

More zapped finer frag size

SPEC C

Y-152

(77) (19) Do 026/10E

(78) (20) G. slate $S_1 \times S_0$ S_1 094/46W
095/1
S_0 124/15

(79) (21) Agg. S_1 thery var.

(80) (22) " 071/29S

TOP OF HILL

Y-153
MINI ALLOW

Y-154
LAYERED COLUMNAR METAIG ?

JULY 14 OFFICE

(82)
S_4 147/16N
S_2 20/44N
F_4 123/1 D.P 5

(83)
S_2 110/32N
F_3 335/15
F_5 050/20

(84)
S_2 120/22N
F_3 330/5

(85)
S_2 142/62N
F_3 325/4
S_4 097/4N
S_1 155/57S

(86)
S_2 120/48N
F_4 286/5
F_5 062/40
S_4 092/22N

(87)
S_2 135/50
F_5 065/45
F_2 135/16

(88)	S_2	135/50 N		
	F_4 ?	330/HORIZ.		
	F_5	061/45		✓
	F_2	305/12		
	F_3	000/45		
(89)	S_2	100/35 N		✓
	F_2	310/20	D.P	
(90)	S_1	090/20N	// S_1	✓

TUES. 5TH JUNE. D1

IVAN [illegible]RTY

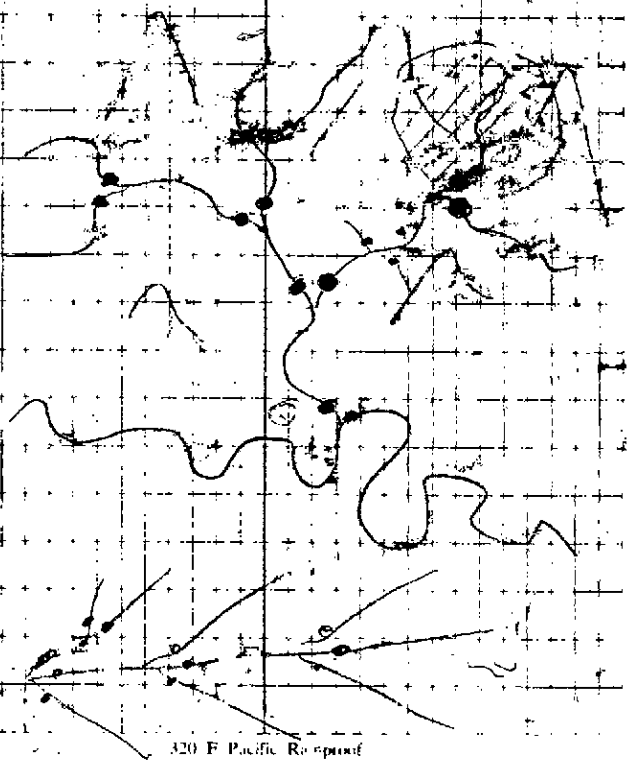
CORE:

SOME QTZITE (SOFTISH)

SLATE/HORNFELS GOOD 5 (?)

BASELINE

NORTH FROM 100 [illegible] 354°



99E / 125N CROSSLINE

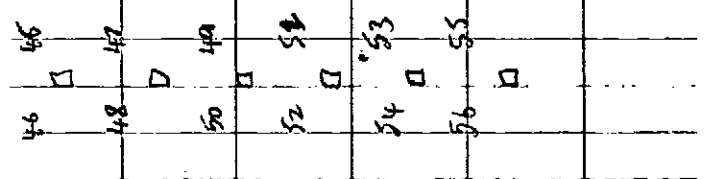
4 POSTS. TOR #1F (4? 7?)
#2 1500 W
AUG 8 / 1970 P. ASHBY

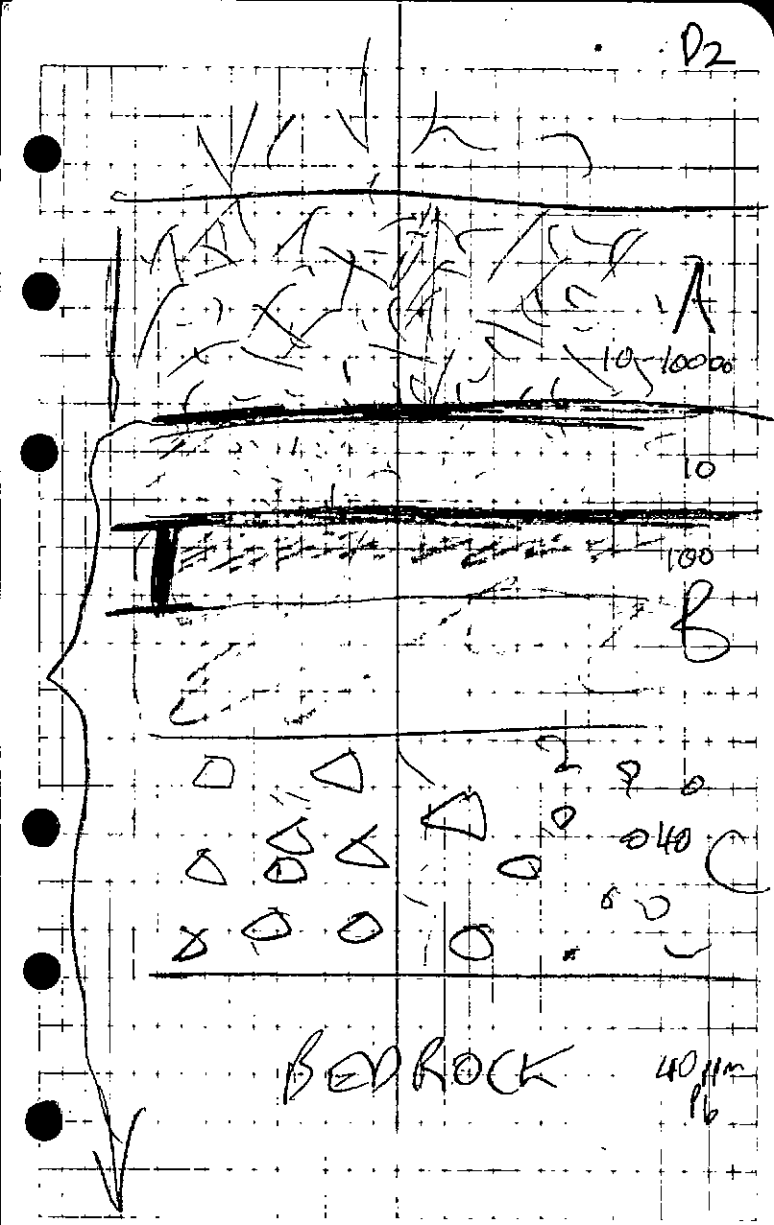
ANOTHER 4 POSTS

5 SIDE, E END BASE LAKE

12 POSTS TOR #4F
AUG 20 '70 ASHBY

E. END LAKE
PANA 43, 44, 45, 46
L. BILL
FEB 11/73
ALL R 1500, L 1500




D2
A
10-1000
10
100
B
40
C
BEDROCK
40 ft m

JUNE 6.

100N B.L.

FIRST CROSS LINE AT 103 + 38E

(1) ACID VOLCANIC / (CHERT?)

L-73-1

(2) BANDED CHERT / SLATE

DK GREY

(3) FINEGRAINED FOLIATED FINE BANDED GREY QTZITE

WITH WHITE QTZ VEINING // FOLIATION / METACHERT

CORRUGATED FOLIATION

L-73-2

Cu 67

S, 256/45S Pb 38

Zn 40

GREY TO DARK BLUISH GREY

L-73-14

(4) DITTO + MORE FISSILE SLATY ROCKS, MUCH OXIDE

L-73-3

JUST ABOVE

105/44S BEDDING

GREENISH YELLOW BLOOM ALONG SOFT

D3

HORIZON MAY BE BEDDING PLANE

MINT GOUGE AGAIN MUCH ORANGE OXIDE

S_0 114/43S

(5) 096/46S S_{1Q}

BLUE-GREY TO GREY-BLACK QTZITE

S_X 109/6 ✓

White streaking/banding = S_0?

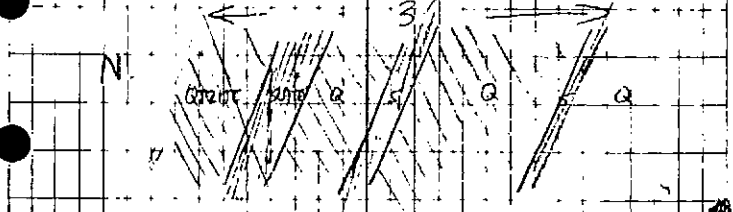
110/57 N

= BEDDING

CHEVRON FOLDING?

6" SLATE INTERBED DIPS N.

SLATY CLEAVAGE ALMOST // BEDDING



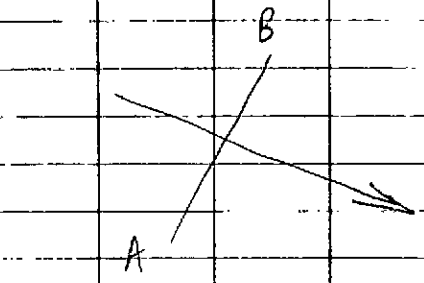
I.E. INTENSE CLEAVAGE REFRACTION.

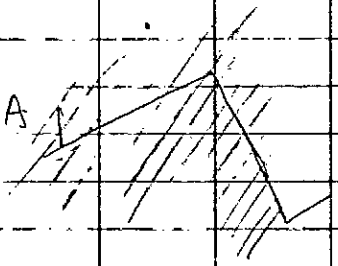
(6) DITTO S_0 240/29 S 156/46S

1" SLATE 6" QTZITE

320 E Pacific Ridgecrest

S_X 120/15 ✓





(7) S_0 330/31E

PLAINLY RIBBON CHERTS.

(8) LIMY SLATE AND MARBLE

BOUDINS OF MARBLE IN SLATE

MED GREY

S_1 ✓ VARIABLE e.g 237/46S

S_0^2 e.g 014/40E – BOUDIN EDGE.

MARKED REFRACTION EFFECTS.

(9) RIBBON CHERT ~ 50' D4

S_0 047/19 SE

S_1 Q 277/60 S

(10) THIN MASSIVE QTZITE (BEDDED 3')

S_0 019/14 E

S_X 108/14 ✓

S_1 296/65 S Q

(11) S_0 168/25 E

BEDDED Q SLATE PARTINGS

(12) S_0 239/23 S

BEDDED Q SHALE PARTS

B_{TDS} 1" - 1'

OXIDE

(13) DITTO

S_0 009/32E

(12) → (13) BLACK MASSIVE.

5, 13, 6?, 14 BEDDED WITH SLATE

3, 4-5, 10, 12-13 MASSIVE BEDDED

4, 7, 9 OXIDIZED BEDDED WITH SLATE

S_X 136/26

S_1 STEEP SOUTH

(14) FLOAT OF SLATE & WHITE MARBLE.

(15) " " DK GREY SLATE
SOME QTZITE

↓

(16) SLATE S_1 281/61S

↓

17 SLATE. START OF QTZITE FLOAT. FISSILE

(18) RUSTY GREY

QTZITES CONTRAST BLUE GREY CHERT.

S_1? 254/45

S_0 355/26E

HEAVY OXIDE

(19) DITTO ACID? DYKE? ~6" - 1'

(20) DITTO FISSILE

S_1 264/50S

D5

(21)

(22) LIMY SLATE

S_1 243/375

(23) V

S_1 258/395

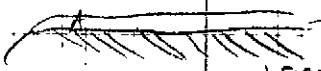
(24) n S_0 325/345

S_X 117/19

S_1 092/405

(25) S_1 269/355

RIDGE CAPPED BY BLACK CHERT FLOAT



(26)

(26) LIMESTONE FLOAT

JUNE 7

27. Float of black chert

Stream below 27 is full of black banded qtzite boulders.

↓

28. Then upstream northeast

29. Fissile micaceous grey-white weathering quartzite

S_1 072/39S

(mens have moved)

Fresh surface dark grey slightly rusty weathering

Further on 082/33S may be better

102/40 in place o/c

LIMEY & SLATE SECTIONS

30. LST BAND S_0 168/35E

S_x 122/25

31 4 POSTS. D6

No 1 PANA 31 1500 S 1500 L.

PANA 32 1500 R

2 PANA 30

PANA 29

FEB 11/73 G. MALTBY

30	29
32	31

A LIMY SLATE
B INBANDED SLATE MARBLE QTZITE
C BLACK CHERT
D QTZITE
E

32 LST PANO

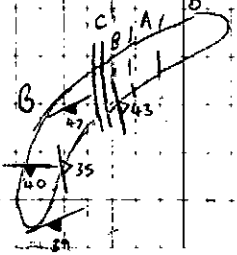
S_0 156/43 E

S_1 248/47 S

S_x 123/26

33 BLACK CHERT FLOAT.

34 S_0 343/43E 5' lst overlying 6' of dark grey banded qtzite over 4' lst over



35.

S_1 246/44S AXIAL PLANAR TO FOLD IN 6" LIMESTONE BED IN SLATY QTZITES.

345/22E MAY BE POLE S_0

003/46E IS S_0.

FOLDED

36. S_0 028/22E

2' QUARTZITE

1' LST / RECRYSTN.

S_1 094/55S

σx 108/29.

37 Pits

S_0 009/20E

38 Pb.

S_1 084/33S

Strongly folded lst. beds in slaty quartzite bedding often retired.

39

D7

S_1 281/31S

S_X 122/14

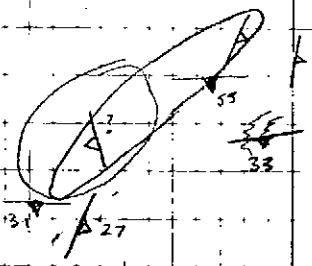
S_O 030/27E

Thinly bedded Q + L SPEC

$\frac{1}{4}$" BANDING V. PLANAR

IN GENERAL THIS RIDGE IS LIMLER TO THE NORTH EAST.

SE END NW HALF IS OVERTURNED ?



40 S_O 167/41 E LST 1"

LST/Q INTERB.

S_1 244/25 S.

41 V. RUSTY QTZITES.

S_1 036/26 SE

42. S_1 231/24

INTERBEDDED MARBLE + SOFT Q AT

ALL THIS RIDGE

S_0 022/42 E

43. cgm lin 130/31

Limy slates.

LIMY SLATES ETC.

44. MARBLE

MIXED FLOAT

45 BLACK CHERT

S_1 284/54S

S_0 063/30 SE

46. Do WITH LIME BANDS ~ 2'

S_0 075/25S

THIS V. CHERTY FLOAT INTO OK

47 CHERTY QUARTZ

48. INTO OK CH. SLATE OVER

BLACK CHERT S_0 109/44S

49 BLACK QUARTZITE

S_0 043/15

50 ORGY MASSIVE PURE QUARTZITE.

JUNE 13. D8

(51)

4 POSTS

No 2 DANA 33 FEB 11

34 J. SMARCH

No 1 DANA 35, 36

1500 S, L. 1500 S, R.

(52) S 235/42 S

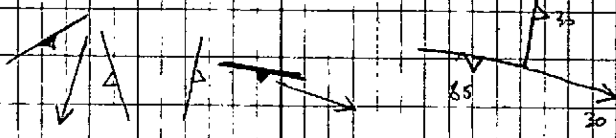
S_0 159/34 W } ?

S_x 196/20

1-B SLATY QTZITES

DIRTY MARBLES

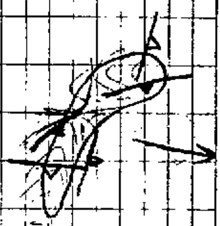
& LIMY SLATES.



S_0 165/44W

S_1 220/44S } ?

S_x 009/23



S_x 112/25

S_0 118/85S

53

S_1 072/34S

Sx 115/23

S_0 ? 283/58 S

DK GRCT RUSTY SLATY QUARTZITE

54

S_0 224/14 S

BANDED QTZITES.

MASSIVE BLACK METACHERTS ?

V. RUSTY AT BASE.

CONCHOIDAL FRACT.

SOME YELLOW OXIDE

Sx 090/8

S_1 ? 094/68 S.

55

S_1 076/37S

SLATY QUARTZITES ABOVE

56. Banded quartzite

S_0 051/23 SE

D9

57 Do.

S_1 081/29 S

S_1 weak fract jointing oblique to banding.

↓ GREY QTZITE FLOAT

58 → 59. S_1 040/31 E

S_x 125/27

S_0? 075/71 S

60 Ditto. Fissile slaty, med-grey

61 "

62. "

S_1 139/13 NE

GENTLY WARPED

63 "

S_1 254/50 S

64 S_1 285/43 S

MORE MASSIVE, DK GREY QTZITE

S_x 38/22

S_0? MAY BE 138 VERT.

65 S_1 231/20 S

FISSILE GREY QTZITE

66 S_x 114/33 S_0? 114/85E

RUSTY FISSILE TO MASSIVE DK GREY QTZITE

67. S_1 245/43

FISSILE . LIMY, SLATY

SAME ROCK AS 66 ?

68. RUSTY DK GREY QTZITE AS 66

69 S_1 110/57 S

MASSIVE RUSTY Q DK GY

70 S_0 ? 137/19 NE

S_x 112/6

MASS Q SOME FISS Q, DK GREY

V RUSTY HORIZONS

71. Good S_1 072/56 S

S_x 102/36

S_0 019/34 E

BEDDED/BANDED QTZITE SLATY

GRADING SAYS RIGHT WAY UP

72 095/15 S

S_1 082/56 S

S_d 158/16 E

MASSIVE Q

73. MARBLE ?

LIGHT GREY HARD, SUG

OVERLYING DK GREY RUSTY Q

BANDING @60/064 SE

APPEARS // TO GROSS WITH BANDING

OF CLIFF

74

S_0 165/26 E

LIGHT GREY Q

S_1 257/53 S

MYLONITIC

75 S_1 277/445

FISS DK GY QTZITES

76 S_1 276/36 S_x 111/11

QUARTZ VEIN RAKES 50?

77 S_0 307/37 N

BANDED QTZITES.

ds_1 ?°

78 261/25 S

S_1 / BANDING.

BANDED REDS

(LOOK LIKE GNEISSED

79 4 POSTS

1 DANE 96 1500 R?, W.

July 6 1966 R VAN VOGT

1 95 1500 L, W

2 94

2 93

80 S_1 051/28 SE

BANDED SLATY QTZITES.

81 FISSILE PK LT

S_0 020/16 E

S_1 256/37 S

JUNE 14 D11

(81) Grey rusty quartzite and grey slates

S1 298/67N — moved?

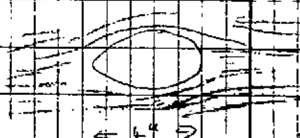
S1 146/55S

(82) Heave of grey to dk grey slates with minor dk grey chert

(83) Pale grey slaty quartzite

S1 107/57S

(84) Rusty fissile quartzite with nodules



appears to be quartz/gouge v hard

S1 109/53.5

(85) Banded quartzitic sed.

lineation 073/5

banding 062/30 SE

Acid tuff?

(86) Coarse grit

S1 130/56S

(87) Banded slate

S_1 149/22 SW

S_x 144/0

S_0 SUBVERT

(88) Oxide black slate, grey

(89) Black slate, some quartzose

S_1 302/36 S

S_x 115/6

S_0 115/90 VAR + FOLDED.

(90) Do

S_0 190/22 E

(91) Dk grey quartzose slate

S_1 119/58 S

92. QTZITE (GRIT?)

93

S_0 030/21 E

1B SLATY SILTSTONES +

SILTSTONES

S_1 115/36 S · S_x 140/21

IN SLATED

94 Do.

S_0 353 /39 E

S_1 almost // bedding in slate

95 CRENULATED GREY OTZOSE SLATE FLOAT.

a S_2 DEVELOPED

96 S_1 084/36S

Sx 118/30

S_0 139/44N

DK GREY BANDED SLATE

97. DARK SLATES + OTZOSE SLATES.

S_1 085/36S

S_0 311/45 NE

131

98. Black slate contorted S_1

99 Black slate el massive

S_1 285/66S

S_0 285/26S

S_1 080/49S

S_0 299/26S

the black chert

JUNE 15 D13

100

S_1 073 / 37

Matt grey weather fissile qtzite. Fresh - black.

101. ditto bedded qtzites, fissile argillaceous

S_0 187 / 11E

S_x 110 / 10.

102 S_x 118 / 5

S_0 124 / 70N

S_1 114 / 39S

FINE BANDED BLACK CHERT

This ridge down to 59 is all v. quartzitic, black + fine banded

103. Contorted black qtzose slate.

F_2 135 / 26

S_2 108 / 38S

S_1 DOM 107 / 71N

? S_0 DOM 09 / 75S

104. ARG. QTZITE, RACK

S₁ 115 / 55 N NOT CREN'D
SOME KINK CRENS.

SPEC SOME 'GRIT' WITH CLEAR BLACK QTZES

SPEC OVERLYING FOLIATED QTZ PORPHYRY
V. FELSIC.
SPEC WITH V. SILICEOUS XENOLITHS (CHILL ?)

105. DOWN HILL INTO LESS PORPH,
MORE MASSIVE, EQUIGRANULAR
V. SILICEOUS INTRUSIVE.

106 S_1 296 / 75 N
SCHISTOSE QTZ-EYE PORPH.
S_x 115 / 4
S ↗ 072 / 25 S JTING ?

107 Pencilled quartzose slates, v. minor
flat of QP.
108 P.T.O. These outcrops
may be muscle just above intrusion

D14

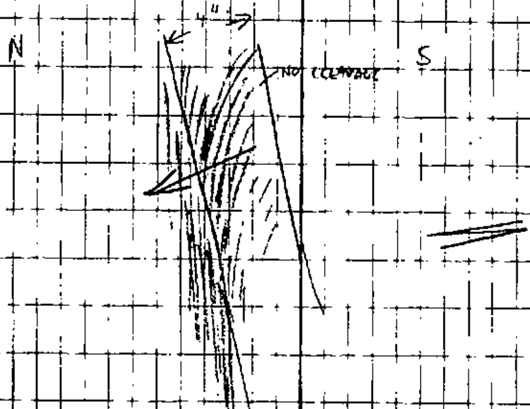
109. Tels of dk grey slate, qtzose slate & reg. qtzite. V. minor igneous float.

110 slate - siltstone

S_0 082 / 73 S

graded tops to N.

Beds overturned



S_1 085 / VERT.

Faint crens 085 / 27

S_x 085 / HORIZ

CROSS CUT BY SILICEOUS INTRUSIVE ?

EQUI. G. VARIETY - HAS FLOW STRUCTURE

315 / 24 E

CONTACT GOES VERT UP FACE

111

104/87N IS BANDING IN V. SILICEOUS LIGHT GREY WEATHERING (FRESH PALE GREY) QUARTZITIC ROCK

COMPARE (78)

112 Ditto

S_1 130/51ON

Banding not a prominent feature although // foliation. Banding may be flamme-type structure.

113

S_0 057/54 SE

Beaut banded sub-aqueous acid tuffs

? SX 143/52 WITH 123/675

JOINTING ?

S_0 087/74 S

30' TO WEST OF 113

114 BLACK MANGANIFEROUS ARG QUTZITE

S_0 291 /87N

S_x 105 /33

? S_1 189 /38E

115.

? S_0 146 /71 SW

V. oxide rich quartzite

S_0 147/42 NE

Banding in black chert

? S_x 087 /37 with 257/78 S

no more than a cm

116 S_0 108 /59 N

BANDED SILICA

117 S_0 156 /47 NE

BLACK + WHITE BANDED QTZITES

118 S_0 093/ 36N

S_1 245/ 41S

S_x 100/ 27

Black qtzite some banded

119. S_1 049/26 SE

S_0 142/37 E

S_X 106/24

Dk grey slaty Q
mst

120

S_0 175/ME

Banded light weathering qtzite

121 S_0 143/34 NE

Box folds in fine bands

122 S_0 138/36 N.E

BANDED QTZITE
ACID TUFF?

123 FACE OF BLACK SLATE
(V. MINOR BUFF BANDED + BLACK QTZITE)

124

S_0 134/24 NE

S_X 113/10

S_1 111/24 S

Fine banded dk grey slaty quartzose slates

23→124 ARG QTZITES ON SOUTH FLANK OF W. SUMMIT

S. END OF 124 RIDGE IS ARG QTZITE

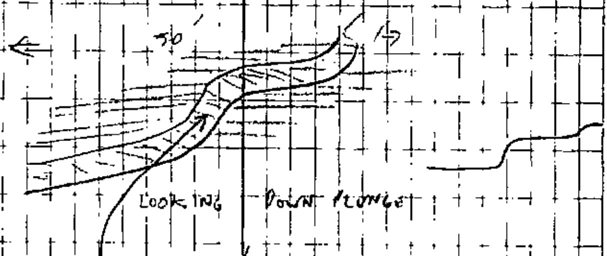
126

125	S_0	078/87N	} moved?
	S_1	024/32SE	
	S_x	082/30	

S_0	125/70N	better
S_1	037/27E	
S_x	113/20	

126 LIMESTONE BED 3' THICK IN SLATES

S_0 346/25E



S_1 096/53 S

S_x 118/23

127. LST BAND 1½' IN SLATE

S_0 157/22 E

S_X 110/9

S_1 090/34 S

128. SLATED MINOR CONGERT BANDS

S_0 016/22 E

S_1 102/32 S

S_X 116/12

129 4 POSTS

24 23 54 - 53 ?

26 25 56 - 55 ?

130 ARG QTZITES.

S_1 244/52S

131 Black QTZITES

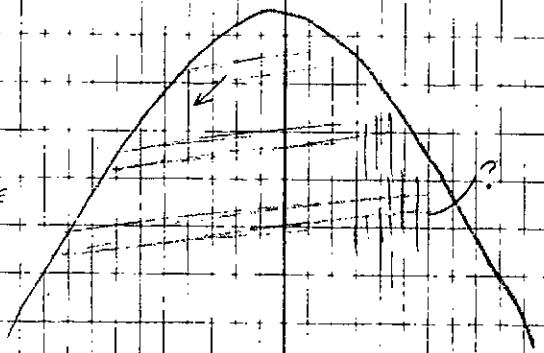
S_0 ? S_1 ? 270/55S

132 BLACK CHERT

S_0 300/3.W

THIN SLATE 1B.

Big cliff opposite spine is -



133 White - pale grey quartzite ①
ao
quickly becomes black / dk grey
Mixed white + black qtzite ?
Some white ao 200' down hill

134 Pale grey qtzite
So 308 / 36 NE
Sx 092 / 19
S1 261 / 55 S

135	Qtzite	Pk to Pale grey.
	S_0	258/34S
	S_1	280/71S
	S_0	102/VERT
	S_X	102/20
	"Band"	of pale grey rusty orange in
	block	manganiferous with thin shale parts.
	Pale grey block	apparently alteration of Zone thins & thickens
136.	S_0?	044/78 NW
		JTIN6
137	S_0	050/9 SE
	S_1	309/64 SW
	J_X	130/10
		130/10
	Good	fract cleavage with refraction
	Qtzite 6"-1"	& slight arg qtzp ½-1"
138.	Pale-med	grey qtzite.
	S_0	288 VERT
	S_1	108/23

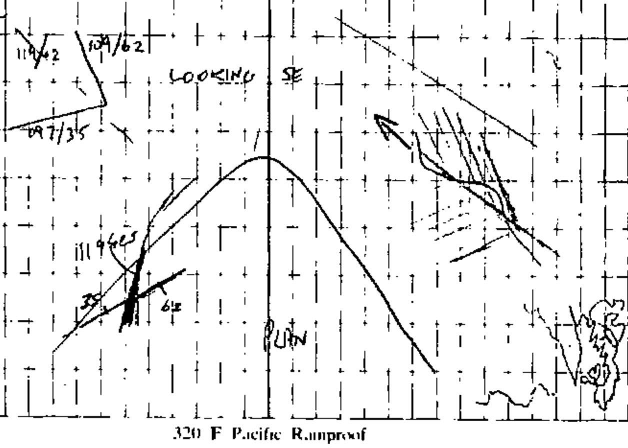
139. Apparently vertical qtzites D18

140 Mid- Dark grey qtzites
?, 112/51 S
sx 116/13
S0 030/15 E

141. Rusty (orange) pale to mid grey qtzites.
S0 097/35 N
cx 295/12
S 119/42 S

Qtzites 6" - 1½' shale parting ½ - 1"

S0 109/62 S



142 S_0 119 / 42N

P_0

143. P_0 SOME LINE WHITE AZITE

S_0 107/78S

S_x 109/15

144 POSTS No 1 PANA 69 1500 S. L

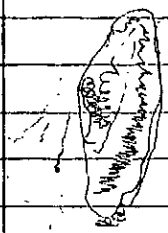
1 PANA 70 " R

FEB 11/73 F. BACHMIER 2 PANA 67, 68

145 P_0 S_0 067/12 NW

S_1 092/44S

S_x 086/0



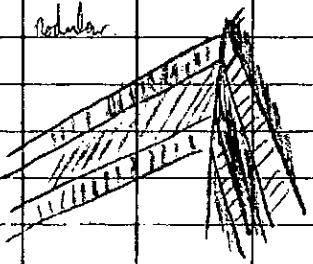
146 P_0 S_0 108/78S

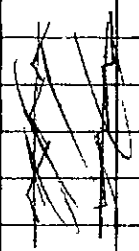
147 P_0 S_0 109/40N

148 P_0 S_0 101/33S

S_1 090/56S. S_x 120/8

Beds nebular



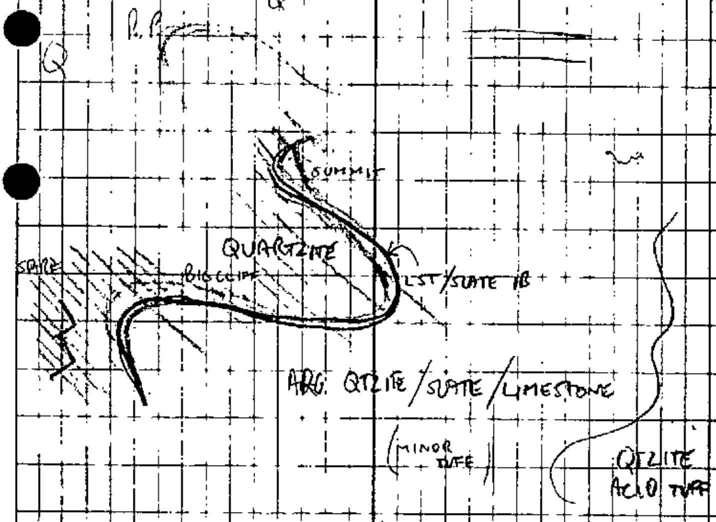


149. 1.B LSTS + SLATES. LSTS 1–2' THICK AS AT 126–128. D19

S_0 169/22E

S_x 120/27

S 104/55S



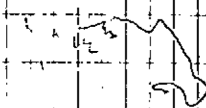
150 S_0. 087/25S

1B BLACK CHERT + RARE WHITE ASH? LAYERS.

151. f_0.

S_0 104/90

S_x 104/14



152. P_o

S_0 079/34 S

153. S_0 039/15 E P_o

S_1 112/73S

S_X 117/14

154 P_o

S_0 008/8E

4' MASSIVE Q BED FORMS

SHARP STEP ON ROCK.

155 LST/SLATE OVERLYING 154 AS AT 149

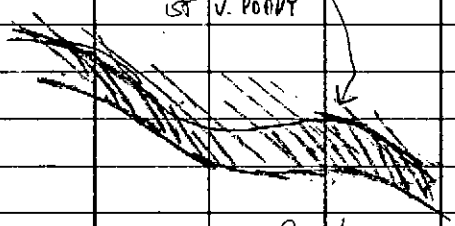
S_0 060/30S

S_1 091/58

156. LST/SLATE

S_0 015/17E

LST V. POOR



S_1 083/17

S_1 074/61S

157 S_0 068/245 D20

S_1 114/735

S_x 124/17

Black Qtzite shale parts.

Many scattered o/c from base of ridge ½ way up to lime knoll.

158 S_0 132/68NE VAR

S_1 218/60E

S_x 092/58

LST SLATE V RUSTY STREAM

159 QTZITE FLOAT

160 Folded lst/slate

S_1 072/335

161 Black qtzite/slate

S_0 116/49N

S_1 092/425

S_x 110/11

162. Horizontally bedded coarse angular breccia of slate, chert, etc all very oxide rich etc.

163

S. 100/30N TO VERT NORTHWARD.

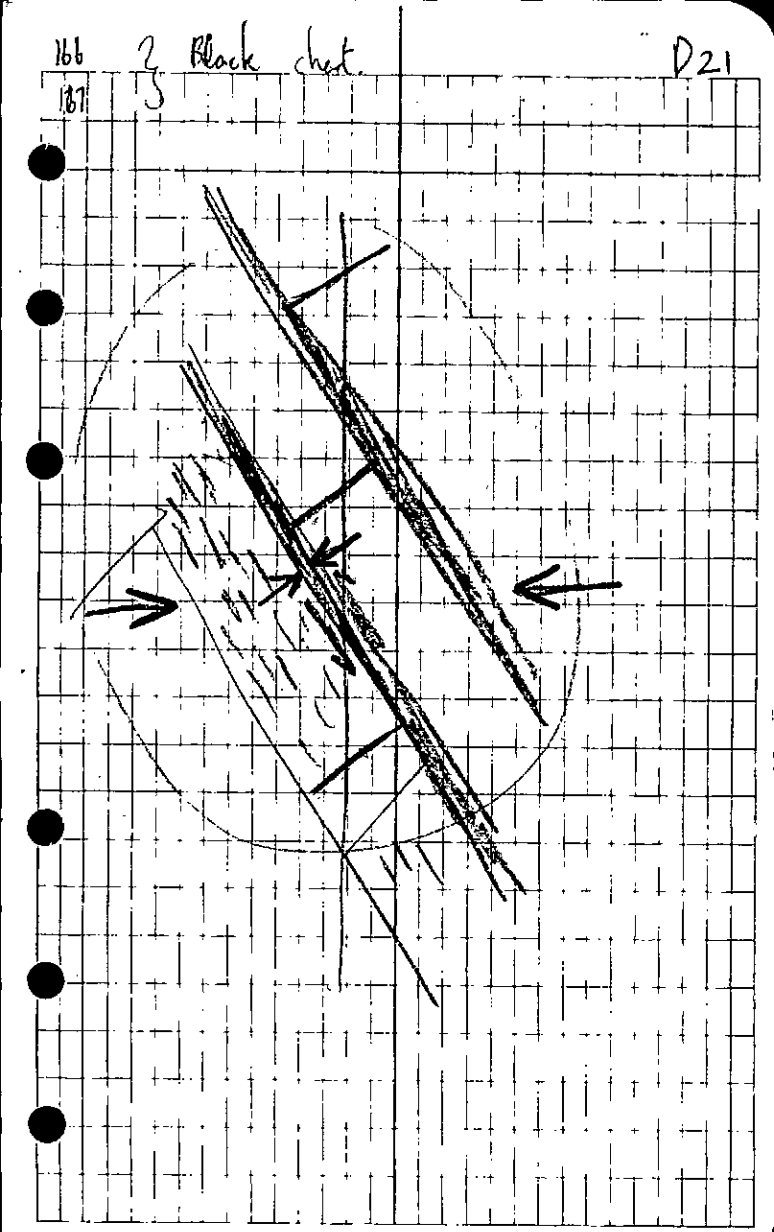
Black Quartzite / slate 1" partings with v dyke (V) of (162)

Crude sub horiz bedding discordant to above. Slaty frags, matrix rich in oxide. Granitic boulders & soft white material (china clay?) chert, acid volcs etc. Some v rounded some v. angular

164 as 162.

165 BLACK CHERT POSS SUBVERT BEDDING

? S0 096/71S


166
167
2 Black chert
D21

JUNE 29 . 81 D 22

RANA

168 So 178/27E
Massive grey chert

169 Po 029/65W

170 Po / Highgrade Pb
D-73-L7

171 1B dirty lst/qtzite Cu 560, Pb 17200
035/42E Zn 46000

172 Po Ost?
V dirty graphitic crab / qtzite / chert

173

174 Black/grey chert massive

175 black chert + orange ore
Cu 63, Pb 32, Zn 110ppm D-73-L8

176 So 168/39E
Rusty grey banded chert

177 white-grey chert
SAMPLE D-73-L9

178 Ptyg chert 022/62W Cu 200, Pb 210, Zn 260

BIG O/C AT

179 BEND 50 179/2 E
1B DRY Q + LS

180 White Aplite

DANA. JULY 28 D 23

(179)

So 131/33N

Seems to have massive 1" lot beds

D-179 - lot? pretty certain —

soltion grey. Need acid

B with punky slates & argy

qtzites.

(181) (grey cherts & fossile arg chert)

(182) 100N/70E same o/c

GREY CHERT

(183) 100N/72+50E

POSTS No 2. Dana 23/24

No 1 25/26 : SOUTH L/R

FEB 11/73 C-MACINTOSH

(184) Do 182 slightly fossile / So

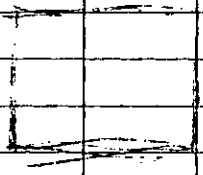
Rusty. St 152/29E

100N / 74E

185 Do 76E.

186 B ST/ QUITE FLOAT

187	1B	U/SURFACE	
		s_0	078/57 S
		S_1 less steel S.	
188	float of black chert		



H1

JUNE 18 (JUNE 17 – RAIN + PLOT)

HAL CLAIMS

1. Mid-pale weathering mid-pale grey quartzite, micaceous parting.

So 176/22 E POOR READING.

2. o/c SLIGHTLY RUSTY PALE WEATHERING PURE QTZITE TRACE Py

3. Ditto in trench

So 123/85S

Rusty banded

Some white massive qtzite (H-3) with almost aplitic texture

4. Ditto with float of white foliated massive weathering material (H-4)

So 054/25S

5. Do So 357/28 E

¼" RUSTY BANDS AND o/c OF NON-BANDED MASSIVE KNOBBLY RUBBISH

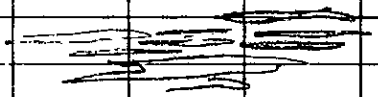
RUSTY BANDS MAY BE ASS.

6. D_o WHITE MASSIVE BANDED, AS (3) (H-6) AND FISSILE FIBROUS ASSOC'D QTZITE (H-6) WITH V. GOD LAYERING & VESICULAR WEATHERING

7. D_o S_o 038/28E BANDING.

NOWAY IS THIS BANDING SED?

BLOBBY



CREAM BLOBS IN MID-LIGHT GREY SUGAR MATRIX & COMPLICATED FOLIATIONS.

+ VESIC WEATHERING RUBBISH

FLOAT: MODULAR BOULDERS OF QTZITE BLACK MANGANIFEROUS, WITH CLEAR GLASSY QTZOS (CF VOLCANIC GRITS D-86, 104

8. D_o S_o 114/90

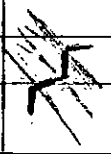
9. D_o S_o 165/30E

S_1 252/51S

S_x 096/22

VERY FRACT CLEAVAGE

D.P.



H-2

10. P_o S_1 090/38S

S_o 26/49N

S_x 112/18

30' SOUTH + S_o 028/18E

11 P_o S_o 130/47N

12. P_o S_o 108/59S

SOME PYRITIC QTZITE

13 P_o SPEC.

14 P_o SPEC ALT QFP FLOAT.

15 P_o

16 P_o Some black pyritic qtzite
with rusty manganiferous oxides coating

17 P_o banded qtzite
PALE - MID GREY SOFTER BANDS OR MATRIX
CREAM HARDER SAND BLEBS ETC AS
H-13

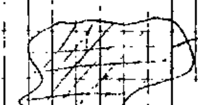
18 P_o boulder field

19 P_o spotted banded qtzite SPEC

20 S_o 098/50S

P_o

Float Blebby acid tuffs (cf H-6)



21 MASSIVE BLACK MANGANIFEROUS QTZITE
603 / 21SE MAY BE So
22 Do underlying (20)
Horny contact ?
23 Banded cream-grey qtzite
with pyritic qtzite
24 So 146/23 NE
Do.
25 So 139 /32 NE
V. ACID BANDED TUFF (H-25)
26 CONCENTRATED FLOAT OF
PORPH. BI - QTZ MONZONITE (H 26)

27. Big knob of 26.
K-feldspar up to 3" x 1"
SAAP GRANITE - 4KE
FLOW ALIGNMENT.

28. Acid banded cream/grey qtzite/tuffs
So 342/15E
J1 092/51 S ve fractured.
Sx 095/10
29 Granite o/c.

Immed overlain by v. acid/qtzites
cf (23) (H 28)

H-3

30 Float black qtzite

31 Acid banded cream & grey

so 109 / VERT.

32 Do

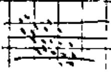
33 Do so 125/90.

spotted variety at north (east) end of

o/c

34 Do in road

35 Bedded acid vesicular tuff as before



36. Hi-grade stockpile

po + cpy in qtz gangue.

Trench here in white silica, faintly banded.

37. Banded black to pale grey qtzite

So 132 / VERT. H. 37

38 Do tr. cpy

So 150 / 16 NE

Sx 109/8

39 Rusty grey-black qtzites

40 Acid tuff as (25), 28

White to pink sugary textured.

41 Do
42 White Acid tuffs as above
with gossan zone (H-42)
Cpy, po, py in qtz
43. White Acid banded tuffs, some black chert
So 082/42 S
44 Do thin 2' gossan horizon at [illegible]
Many rusty zones
So 110/64 N
45 Do
46 Some dike, some black manganese
47. Do. gossan at junction with cpy-po.
So 075/36 S.
48. Do
So 110/54 S
49 Black - grey qtzite
50 o/c Do
So 029/85 W
JJMB

JUNE 19

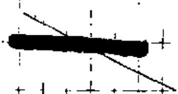
(51) 1B dirty lst, dirty qtzite + dirt

S_0 050/6 SE

S_1 082/45 S

S_x 091/15

P.R



(52) Trench avg qtzite

Knoll to north as (51)

Trench has oxide org platy qtzite possible vein sphalerite

Also fibrous porphyroblasts = actinolite-tremolite ?

(53) Coarse sph + calc in vein - coarse // foliation

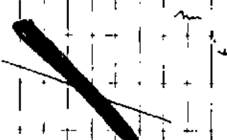
LST BAND AT ½ WAY IN TRENCH HAS SPH VEINS, SOME SUB // TO BEDDING

(54) D_0 { COARSE SPH + CALC VEINS IN QTZITE
" " VEINS IN LST

S_0 080/66S

S_1 074/30 S

S_x 097/26



ZN CONCENTRATED IN F_1 FOLD NOSE

55 Do 1B Lots, slates & dirty qtzite.
S_1 055/26 SE poor reading

56 Do
Apparently the same all down this ridge

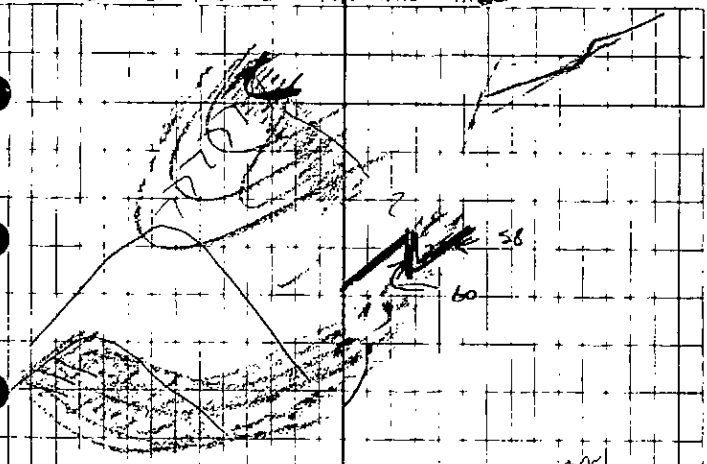
57 Do
S_0 047/VERT ?
S_1 091/32 S
covered in 1/4" random act-trem needles
rock has random " " "
HORNFELSED

S_x 121/35 S
S_0 026/27 S
S_1 101/38 S

Apparently affected at each jts
as above.
S_1 weak fract.

58 BANDED PALE WEATHER ORANGE RUSTY GREY QTZITE
S_x 135/12
S_0 113/26 S
S_1 131/70 S

LOOKING UP PLUNGE FOR THIS HILL



59 P_0

60 P_0 S_0 124/90 ACID WELDED TUFF

PINKISH, COMPACTION PARTING & STREAKING

BANDED

61 LST

BLACK CALCITE VEINS

S_0 039/54 E IN BANDED SILICEOUS ROCKS

62 S_1? 073/83S

S_0? 358/44 E

S_2 077/42

Welded tuff...

63 Welded tuff.
S_0 086/65S
S_1 079/52S
S_x 094/23

Horizons of white silica
& white chinaclayey which

64 Do
65 Do S_0 002/31E
S_1 054/65E ?
S_x 063/26 ?

Banding poor

66 Do S_0 072/71S

Veining 354/VERT H66

67 Do vein l.c. zone
020/VERT H67

Just above - top of Δ
fissile qtzite.

68. Welded Tuff.
So 316/52N

69 Po So 158/50N
Sx 124/20
S1 270/32S

70 Po So 147/21

71 lat/qtzite/slate

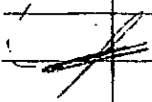
So 031/21E

72 Po
So 047/16E

73 Acid welded tuff.
So 039/23E

74 Med grey to dk qtzite
102/60N

75 Aplitic rock with disseminated sulphides
Gossan zone at NE end.
White cherty qtzite So 149/31NE
Odd gossan sections about.
Poor to absent banding

76	Welded tuff				
77	D_0	S_0	087/22		
		S_1	steeper		
					
78	D_0	rusty			
79	"	"	no bedding measurable		
80	D_0				
	Gossan – top	of	cpy po	at o/c	

HAL. July 27 H-7

38 — Chert grey rusty w.
& sparkling rusty grey chert
— tuffaceous chert? Fissile

100N/25E.

82A. FLOAT OF TUFF / TUFFY CHERT

(83) Prominent parting 049/59 SE
could be anything
In rusty tuffaceous? silicic
rocks H-83-L73

(84) So 125/83N
White w dk med grey fine
sparkling silica. Faintly fine banded
1/20" ≠ So
Tuffaceous chert?
Do So 158/68E

85. HIGH GRADE PB GOSSAN
So 137/33S H-84-L73
CONCORDANT 2' THICK ZONE

 ~ ∥ to slope

86 S_n? 084/48 S VAR
PROB Black resting as black friable sparkle [illegible]

87 "pervasive" jtg. 031/74 W
S_0 118/65 S - varying

88 perv. jtg 012/68 W
S_0 064/37 SE

pale weathering grey to
dark grey) sparkling chert
thin bedded (88) + FB with
slaty beds

89 F_1 283/-
S_0 082/48 N.
Slightly sparking black tuff ?
chert
Thin bedded folded [illegible] D.P
20'

FRIDAY 13TH JULY, 1973 K-1

1. Brown grey weathering argillite with tuff v. pumice / v finely crystalline? Tuffaceous? Black shiny fresh surface
So 131/56 SOUTH.

2. Aplitic siliceous tuff K-2 banded. IB with limestone. laminated
So 108/23 S
immediately overlying argillite as (1)

3. Yeta gossan source, almost certainly, - ie almost certainly rusty chert as Z-125 (also with assoc'd silt anomaly) - maroon red blocky o/c.

4. Friable arg. argillite heave + o/c
So 107/41 S

5 Pink aplitic welded tuff underlying or interfingering with tuffaceous argillite as 1 of banded tuffs or lava (flow)
So 137/57 S.

underlying fossils arg/tufog qtzite

6. S_0 148/46S.

7. S_0 110/53S.

Grey chert – tuffaceous
Minor fauna, small lime lens

8 S_0 120/54S
Light weathering black chert / tuffac. chert.

9. Fossils (tuff?) arg qtzite, black, fine lam/banding
S_0 107/44S

10 1B Lst / slate
S_1 119/62S
S_0 122/34S
S_x 295/5
Lst, grey – boudinaged to blocks

11 white crud on hill opposite looks like a blast.

12. S_0? 151/66 NE. Banding in qtzite
K12

K-2.

Sparkling qtzite – dyke? tops above are

sugary/tuffy cherts/qtzites as (9) etc. some strike/dip etc

as (9).

13. S_1 135/56S.

Chert pebble/boulder breccia/cong.

chloritic at top K-13.

14. S_0 100/62S

tuffaceous qtzite/chert

13 seems to change to a qtzite/chert at

top of ridge.

15 Tuff – chloritic K-15 between 13 & 14.

16 Float lst/slate 17 float as 14

18 S_0 135/35S

S_1 142/90

S_2 142/7

black arg qtzite

19 Sparkling black chert

light weathering cream/grey.

knobbly weathering

S_0 135/76S

20 Do. some light-med grey bands

some reddish aphanitic

21 So 142/43SW
Black rusty mangy
fissile to massive org chert/qtzte

22 So 148/26 NE
Thick bedded cherts, grey fresh

23 So 025/17W
finely laminated + vesicular
weathering. tuffy? chert?

24. Massive grey org cherts
So 082/44 S

25 Do fissile interbeds
So 120/20S

26. So 097/28N
Ratchitty black argy chert
not at all well bedded
but not blocky

27. So 086/24 S
Massive bedded blocky dk grey chert

(28) 038/70W K-3

Face normal to columnar
jlty in qtz porph dyke.
$\frac{1}{2}$" veins of beds. K-28

(29) Do 27
lots of $\frac{1}{2}$" beddy xenoliths in 28

30 Do 28 080/90

31 Do V. abundant $\frac{1}{2}$" xenoliths

32 S0 019/31W
in " bedded chert with
$\frac{1}{8}$" shale parts. Black.

33 Platy lat 1B slate.

34 S0 143/40SW
Do 32

35 Graphitic dirty chertas reliolit
fissile arg chert
pure grey chert

36. Grey sparkling chert.
light grey weather

37 Apparently sub-horizontally bedded

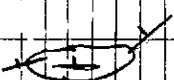
38 S0 105/29S
S1 134/70
S2 147/21

Black thinly bedded chert
arg chert

40. Felsic tuff?

July 15 K-4

(42) S_0 130 / 60N
Black-Grey chert thin bedded 1"-6"
thin argillite/args 18. ~ ¼"-1"

43 P_0 S_0 135 / 47N
44 P_0 S_0 137 / 46N
45 P_0 S_0 116 / 37N
46 P_0 S_0 119 / 41N
47 Float/heave of grey brown weathering platy chert.
48 S_0 055 / 54 SOUTH
Grey brown weathering banded ($\frac{1}{10}$")
limy chert? siltstone ?
49 Chert float as 42-46
50 B grey brown chert / cale siltstone
overlying 49.
51 Heave as 49 etc.
52 P_0 S_0 048 / 52 N
53 P_0 093 / 34N good
54 P_0 075 / 35N
55 P_0 113 / 44N
56 P_0 100 / 22N 

57 Do so 131/52N

58 Do so 27/35N

Thicker bedded zone 12-18"

59 Do so 131/48N

60 Do so 046/22SE

61 Laminated siltstone 4-6"

buff-brown weathering.

62 Small o/cs

1 bed pure chert

1 bed 18 gy list/siltstone

63 so 112/49N

thinly banded/laminated

light brown gy weathering

mid gy chert.

64 so 068/52N

Do

65 " " 061/36N

66. some sort of bx fault

67 siltstone as 61 hard/heave.

68 Do heave/fault

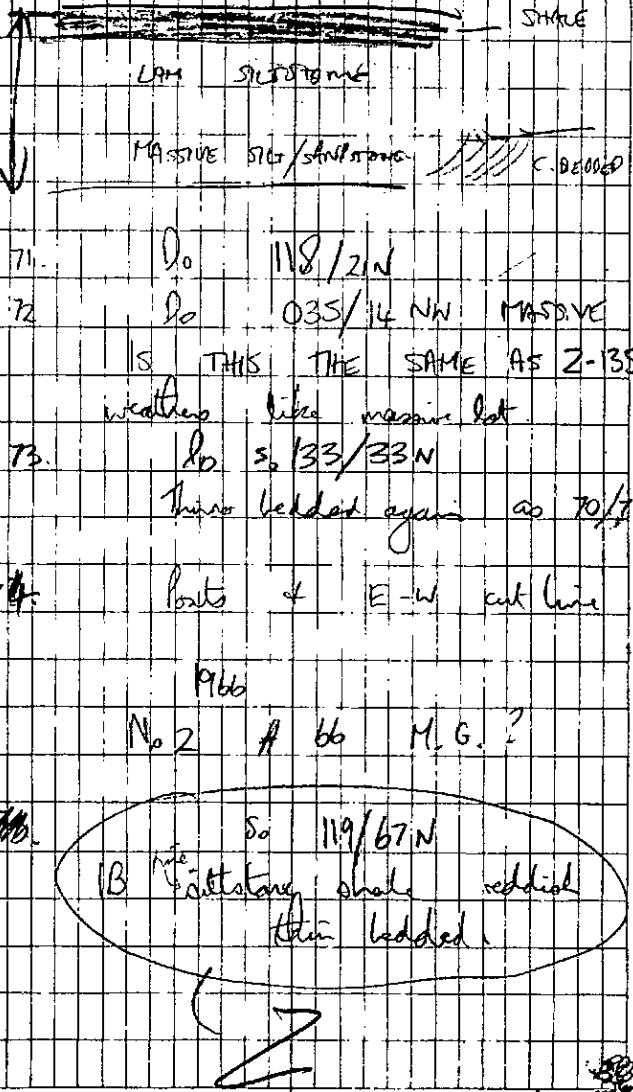
69 so 048/46SE

Do 63.

70. so 084/19N.

1" - 18" bedded flysch.

K-5



JULY 16 K-6

(75) S_0 166/24E

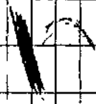
Grey thick bedded 6"-6'? chert.

Some white check ε 164/25E

76 D_0 thinner bedded 1"-3'

S_0 135/43 N

77 D_0 088/66 SOUTH



78 D_0 082/33 SOUTH

Boiler plate slabs

S_0 slightly steeper than slope

79 D_0 S_0 097/21 SOUTH

S_1 NORMAL TO BEDDING.

F_1 Sx 120/12

80 IB Oat Natale

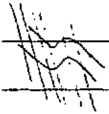
085/25.

steeper

81. Do overlying tuffaceous rock of Z-10

S_0 107/155

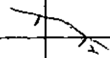
on strike with K-10



S_1 126/54 S

S_x 137/16

α (298/3)



82. S_0 085/20S

Blocky siliceous tuff with limest. bands. K-82

That's why no Blst/slate on K-10 & 30 ridge

FACIES CHANGE to LIMY TUFF

Tuff has flammé type banding, is v. siliceous, cherty.

83 Do with dark slaty material

jasper? fault trace 82 + 83

84 S_0 038/20E

siliceous cherty tuffs.

" not limey

" " "

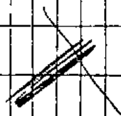
85. S0 139/46S ~~MASSIVE~~ K-7

Mildly sparkling qtzite overlying siliceous tuffs as before.

86. Do

87 Siliceous (tan grey w.) plastic tuffs under dark grey qtzite slates.

88. S0 163/31E



cherty tuff

S1 136/26S

88-89 Dark slates

just beyond 88 ~ 50' - block of qtzite

89. cherty tuff.

S0 071/21N

scarcely perceptible - slight lamination at one point ~ 50' high o/c of massive tuff.

063/29N

much better, 1½ reds

S1 steep 40° south

90 looks Do 89.

91 S0 021/24W VARIABLE

FOLDS 315/10.

1" bedded arg chert +
qtzose slate blue grey/black
thin + felsic on opposite side
of gully

92. Do. cf Z-101

93. So 177/26W

silica tuffs - all sorts
of pumice type structure, odd
relief weathering (looks limy)
massive, so not readily apparent +
not used for breaking along
odd rock. - seamed with
qtz tension veins. eg 054/60SE
↓ BLACK QTZOSE SLATE/CHERT AS 91/92

94 Rusty argy black chert
So 096/38N

S1 ~30° S

95. Black qtzose slates + argy cherts.
S1 003/63W
Sx 367/34

96 Do S1 147/54 SW
So 131/43N

97 l_o S_o 003/48 W K-8

Black arg/graph chert thin bedded

98 l_o S_o? 057/23SE

thicker bedded up by

98 ...-nosed cherty schist + grey silicic tuffaceous S_o 169/37W

50' over to south

S_o 025/52 W

99 l_o

100

S_o 015/45 W

Tension fractured tuff as 93

101 S_o 101/22 S

Flame banded silicic tuff

102 Silicic tuff

S_1 057/38 NW

→ possibly S_o?

S_o 076/40?

103 l_o 085/34S

104 Black argy chert + argill slate

... not well bedded

105 V. MASSIVE LIGHT GREY
QTZITE, APLITIC TEXT (SIMILAR)
K-105. of Z-92
S_0 114/40 S
overlain by black notary
chert & slate

106 S_0 138/235
siliceous cherty tuff,
massive.

107. Coarse massive sparkling qtzite
overlying dark qtzose slate

106–107 banded siliceous cherty tuff
getting irregularly limy
upward.

108 Fissile felsic tuff &
aplitic tuff white weathering
K-108

109 Fissile qtz-eye volcanoclastic
(as opposed to massive volcanoclastic
qtzite). Probably granitic origin?
v. acid granitic
v 5% qtz.

K-9

110 almost certainly as 105

111 dark glypore dates.

112 } VOLCANO CLASTICS (SUS?) K-112

113 } K-113

114 } dark glypore dates.

115 } K-115

116 Massive 105 again at cart.

117 K-117

118 K-118

July 20. K-10

(119)

Greenish chert, overlying (N of) volcaniclastics (with "xenoliths") K-119 overlying grey chert. Dip probably steep north strike 120/130.

overlying a pervasively oxide spotted [illegible] tawny brown weathering K-119

(120) S_0 108/18 SOUTH

grey fine bedded chert (1")

(121) S_0 179/40 WEST

opaque white thin bedded chert.

(122) S_0 124/39 NORTH

Grey thicker bedded, (up to 1') chert

(123) Do. some rusty

124 Do 098/32 N

125 Coarse volcaniclastics under black contorted S_1 slate B_S under grey-black chert B_C

(126)	Black ^blue grey^ Argillite arg. chert + qtzose slate			
		S_0 136 / 43 N.		
127.	Grey chert + slate	146 / 22 NE	VAR.	
128	V. contorted black arg chert + slate			
	M zone ?			
129	P_0 127	S_0 134 / SUB VERT	VAR	
130		S_0 145 / 57 N.		
	shaly parting in qtzose slate			
	blue-grey / black. some arg chert			
131	P_0	135 / 32N		
132	P_0 under sparkly fine grained brown weathering volcanic siltstone		K-132	
		S_0 155 / 42N		
133	P_0	S_0 024 / 35E	VAR	
134	P_0	007 / 35 E		
135	P_0	169 / 22 E		
136	P_0	077 / 13 N		
137	P_0	055 / 10 NW		
138	P_0	004 / 26 W		
139	P_0	F_x 213 / 14		P.P.
140	P_0	S_0 051 / 12SE		

141. July 20 K-11

So 119/90 VAR.

F. 119/15 VAR.

Pale w veined + fractured white/grey chert, stained on fracts

142. Do.

143 Do So 136/55N

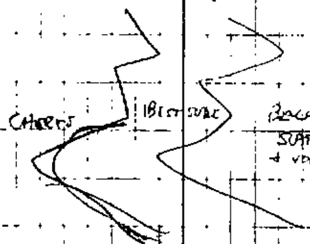
142 → 143 Do

144 Black mangy chert } bedding not

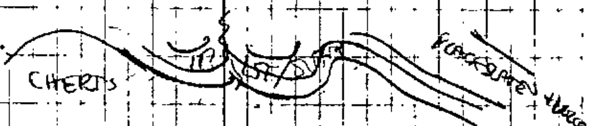
145 Grey veined chert } well developed or preserved

So 085/245

DANA



Z.



146 Do So 170/48W VAR.

Altered ?

F 336/11.3 5 10.9

147 S_0 164/57 E
Black mangy chert ?
K 147

148. S_0 001/74E
Alt chert as 141
Pink alteration / vein material
S_0 125/49N
Definitely bedding & def. chert
almost ~~[illegible]~~ translucent pale
grey with pink (hematite?) alt.

149 P_0 S_0 115/17N.
150 P_0 S_0 101/52N
151 P_0 S_0 113/74N VAR DIP.
some irreg masses of
chert pebble px in dtension
well bedded o/c
Orange rusty

152. Rabbitly grey slate, lingo?
almost expect to see 'bat'
((IB bat/slate [illegible] ?) [illegible])
Prob a fault slice of stuff to north.

153 P_o 151 ? Bedding plane o/c July 20

154 P_o 153/151 ? K-12

155 P_o 142/26 SOUTH W

Black mangy thin bedded

overlying a massive 101 bed

156. Well bedded grey (dk greenish gy)

cherts S_o sub horiz variable

gently warped // F_1

157 Slaty grey

158. Altered ? chert K-158

S_o sub horiz var.

159 White w. pale grey thin bedded chert

S_o 104/30 SOUTH

160. Pale grey w. pale grey chert

S_o 098/65 NORTH

161 P_o

S_o 109/81 NORTH

Poorly bedded.

162 S_1 095/35 S.

Grey green slate

163. S_o 096/28 N.

Massive grey bedded chert pure

164 P_o S_o 087/38 S

δx 101/11

320 F Pacific Rainproof

165 D_2 S_0 128/14 N.
F_1 [illegible] 102/14
S_0 103/62 S.

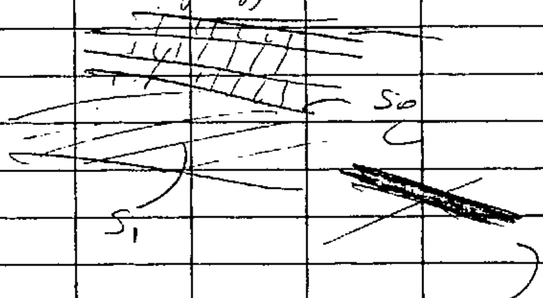
[illegible] D_0 S_0 115/51 N.
K-166

167. D_0 S_0 111/30 N + STEEPER O.P. [illegible]

168 S_0 170/37 E
White weathering ashy? chert
as K158.

169. S_0 147/16 N.
Grey bedded chert.

170 S_0 105/13 N
Reddish bedded chert K-170
[illegible] with greengy [illegible] chert



July 20 K-13

171 Big patch of 1st boulders
K-171
grey gritty text

172 Po 146/16 NE

173 So 125/90.
White weathering → grey translucent chert.

174 So 108/39N
6" + bedded chert
with ½" - 2" shaly partings
grey/black slight sparkle.

175

4.5.6.7

Aug. 27TH

L-1

① S_2? 095/41N

Coarse schist

musky w, muscovite-rich, big qtz boudins
some white fuzzy bloom.

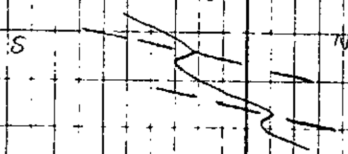
$S_1 X S_2$? 089/20 & qtz rodding

S_2? 104/51N

② D_0 S 125/43N

③ D_0

② S_4? 147/20N



LOOKING NW

115
115

F4 114/11

④ D_0 S_2? 115/53N

S_4? 125/23N weak, no folds

F4 110/6

096

⑤ D_0 S_2? 117/28N

ms-qtz schist + bi/gt ± staur

6 l_o S_2, 112/45.

v planar 'S'.

+ fine spaced ($\frac{1}{20}$")

= qz laminae $\frac{1}{20}$"

with some oriented ~~Bi~~ Bi

on ms parting

+ some coarse gnt + staur

~~bi~~ poor

Thin (3") calcalicate band, recessive, probably limy. Dark purply grey

= Phyllite with limy phyllite as in area T below greenstones

7. l_o S_2 127/36N

8. l_o S_2? 128/29N

some 1" staur

coarse Bi books

still a qtz-ms schist

rodding F_2? 105/16

(9) P.o $S_{2??}$ 116/34N L-2

recessive 1" limy bands

some coarse garnets in bi-mo-qtz schist.

generally v. planar $\frac{1}{20}$" qtz laminae + fine-med grained

(10) P.o some coarse grt + staur sch

some ~~generally~~ planar S qtz-musc-schist with fine bi

S_2 096/28N

(11) P.o S_2 115/41N

planar, qtzose - abundant qtz rods + plates

rodding 083/24

(12) P.o. S_2 105/31N

Coarse mo. schist with aligned bi porphyros. dark grt.

13 D_0 $S_{2?}$ 144/23N

Coarse

14 D_0 $S_{2?}$ 100/53N } BLOCKY QTZOSE

15 D_0 S_2 091/36N }

16 F_2 081/31

tight folds in qtz rods

S_2 axial planar

some broadly crenulated S_1

S_2 118/47N

some large (3") andalusites strong a lineation on S_1, normal to F_2

17. D_0 S_2 110/23

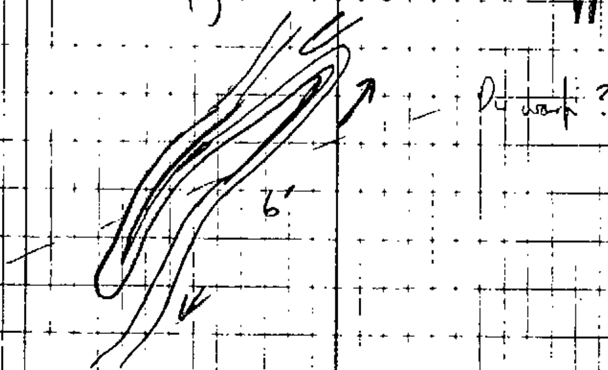
18. D_0 F_2 086/22

quite large (feet amp) D_2 folds S_1 dominant

19 $S_{2/1}$ 099/39 N L-3

fine qtzose ms-schist + bi

nonplunging isoclinal D_2 folds in qtz rods on bank opposite



20 D_0 $S_{2/1}$ 112/31 N
may be S_1 transp'd //
D_2 mullions in stream bed

21 D_0 a) $S_{2/1}$ 140/44N
→ sericite phyllite
b) $S_{2/1}$ 096/45
$F_{2/1}$ 094/18
} CHEVRON BROOK 087/12

b) is much more qtz rodded + massive
a) is very sericitic + punky
may be fault

22. l_0

$S_{2/1}$ 093/47N

V planar S.

fine qtzose schist

mm qz laminae, no partings

minor Li.

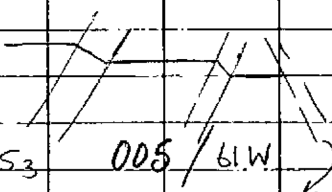
23.

$S_{2/1}$ 114/32

isoclinal qtz rods

F_2 113/5

F_3 KINKS 359/24



D.P.

S_3 005/61W

complementary fractures

004/77E

Very lustrous sericite phyllite

Min lin 335/9

// to Li lin in coarser schists.

still same with 10° GVTS

24 L-4

limy $S_{2/1}$ 094/45 N

1" limy horizons, recessive w.

25 $S_{2/1}$ 100/23N

v. lustrous sericite phyllite

26 $S_{2/1}$ 095/52 N } fine bt-mus schist

27 $S_{2/1}$ 089/35N }

28 S_1 107/38N $\parallel_0$

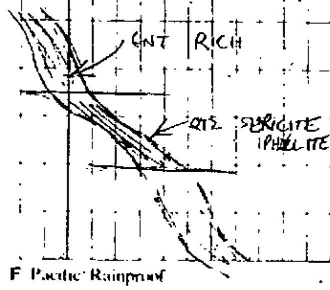
S_0 trace ???

crens 316/23

F_1 084/2

limy at top/downstream

S_0



29. S_1 104/26 N

D_0 v lustrous sericite phyllite with $S_0 < S_1$

30 S_0 135/65N VAR.

S_1 084/58N

S_0 056/47W

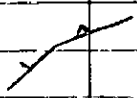
Fine li-ms-qtz schist after Ranfurly shale

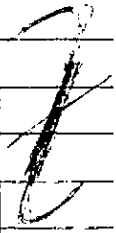
31. D_0

S_1 079/41 N

S_0 074/65N

S_x 062/16





32. D_0 crens F_2 316/37

S_1 100/51N

$S_1 \times S_0$ 298/22

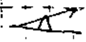
33 D_0 S_1 079/29 N

→ Phyllite

34 S_1 088/42N

S_x 078/5

S_0 160/5E



grey lustrous phyllite

F_2 vein 282/20

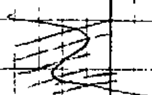
35 F_2 - S_x 100/12

S_2 112/40N WEAK

S_1 104/20 N

fine schist

some



However some qtz rods in o/c on opposite bank

36 S_1? 087/16N

limey phyllite.

boudinaged qtz veins

looks as though there should be rootless isoclines ???

(37.) Limy phyllite.

S_1 115/20N

(38) S_1 074/21N

Blocky glyne phyllite

39. Do

Mullion 057/28

looks like F_2

40 Do

S_1 093/17N

41 Do

S_1 106/58N

F_2 cress 307/27

42 Do

S_1 085/53N

43 Do S_1 116/40N

AUG 28TH

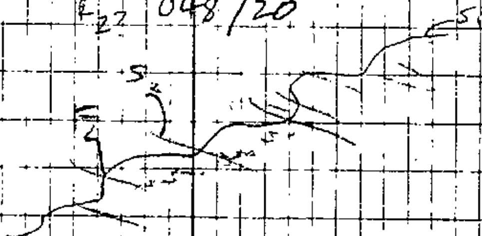
L-6

(44) S_1? 105/32N
V. coarse grt-staurolite-mus Schist

45 D_0 S_1? 075/29N

46 D_0

S_1? 098/31N
S_2? 027/32E
F_2? 048/20



47 D_0 S_1? 075/30N

48 D_0 S_1? 078/38N
D_4 { S_2? 034/33E
F_2? 063/11

49 D_0 S_2 074/27N
a planar to isoclines in S_1

50	D_0	S_2 if 49	056/24NW	
51	D_0	S_2	052/28NW	
52	D_0	$S_2/4?$	022/30 E	
		F/14	038/9	
		S/2	046/40NW	
		a Varar to isoclines in		
		u meta's fabric.		
53	D_0	$S_2(1)$	062/16N	
54	D_0	$S_4(2)$	043/30 SE	
55	D_2	$S_4(2)$	040/27 E	
		$F_4(2)$	060/11	
		$S_2(1)$	071/40N	
56	D_4	$S_2(1)$	092/7N	
57	D_0	$S_2(1)$	119/18N	

L-7

58. D_0 $S_{2(1)}$ 091/13N

59 D_0 $S_{2(1)}$ Anti form

60 D_0 124/12N

61 D_0 01/18

62 D_0 $F_{2(1)}$ 034/0
25 rad.
$S_{2(1)}$ 100/19N

63 D_0 $S_{4(2)}$ 028/17E

AUG 29TH

L-8

(64). S_0 118/69S V. VAR

Massive blocky banded $\frac{1}{10}$"-1" cherts + impure (tuff/arg) cherts red gy weathering
(Not good banded cherts)

F_{1,S_1} 128/10
S_0 138/70 N

overlain on top of knoll by white w. banded almost aphitic silica tuff as A-114 etc.

65 P_0

S_0 145/71 SW
S_0 099/VERT

Pile of silica tuff with Fe $\frac{1}{2}$" bands

D.P

66 P_0 S_0 114/26 N
67 P_0 S_0 131/10 S
68 P_0 S_0 017/30W
alot of black banded material

69

schist

S_2: 117/38N

no bedding

AUG 30TH

L-9

70 Coarse schist
isoclinal qtz rods
S_2 163/14 SW
SEE (80)

71 D_0 S_2 066/12 NW

72 D_0 S_2 078/16 N

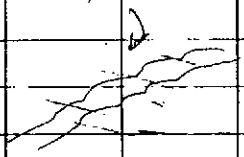
73 D_0 S_2 144/8 NE

74 D_0 S_2 170/4 E
F_2 139/8
qtz isocline

75 D_0 S_2 115/16 N

76. D_0 S_2 089/16 N
F_2 297/4
qtz rods

77 D_0 F_2 111/0
in hill qtz isoclines.
schist = qtz + musc. Strong rodding.

78	D_0	S_2	142/9 NE	
79	D_0	S_2	127/12N	
80	D_0	S_2	095/10N	
	S_2 !		COARSE GREN FEL IN GNEISSIC SCHISTS	
81	D_0	S_2	098/14N	
82	D_0	S_2	103/13N	
83	D_0	S_4	093/33S	
				
84	D_0	S_2	118/22N	
85	D_0	S_2	090/21N	
86.	D_0	S_2	folded 126/21N	

87 Po S2 091/15N L-10

crew fol in early jurassic bandy

- may be same horizon as (80)

88 Po S2 089/9N

89 Po S2 102/20

Isoclines in S1

90 Po F2 085/10

qtz isocline

S2 110/28N

91 Po S2 217/23N

92 Po S2 139/10NE

93 Po S2 091/23N

94 Po 096/22N

96 Po 071/25N

96 Po 080/35N

97 Po SS 088/27N

98 Po 106/29N

99	Do	S_2	163/20E	
100	Do	S_2	144/22 N	
101	Do	S_2	135/29N	
102	Do	S_2	101/55N	
103	Do	S_2	098/34 N	
104	Do	S_2	130/32N	
105	Do	S_2	101/19N	
106	Do	S_2	136/32 N	
		F_2	123/14	qtz rodline
	V. fisse & bdd qtz veined.			
107	Do	S_2	096/8 N	
108	Do	S_2	071/12N	
109	Qtz - musc granite dyke.			
110	Do 108	S_2	038/8E	
111	Do	F_2	106/10	qtz rod
		S_2	131/26N	

Aug 31st

L-11

S

112. S_1 081/53S

meta siltstone ?

L-112

ONLY V. MILKY LIMF

113. crenulated grey phyllite L-113

114 Platy/slaty buff lst L-114

$S_{0/1}$ 005/48E

115 Do S_0 120/55N × 111/32

platy cataclasy S_0

116 Do S_0 157/57N

S_1 135/59N

S_x 068/58

13 buff hyplst & limy slate

117 Buff pink lst S_0 156/19SW } × 318/6

S_0 142/55SW

118 $S_{0/1}$ 135/35S

grey slate, limy? slate L-118

119 238/21 × { S_1 005/25W Buff lst

S_0 142/20SW

S_1 031/44W

320 F Pacific Rainproof

120	P.	S_0	022/43 W	} x 218/14
		S_1	058/34 SE	}
		L-120		
		S_0	042/53 NW	

Massive bedded int finely (1/10") banded in grey + brown

058/34SE x 005/25 W

= 217/14

Sept 1st

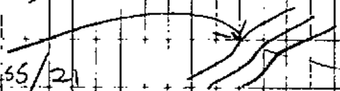
L-12

121 S_2? 117/48N

Limy phyllite

122 Grey sericite phyllite

S_1 039/46W



F_4? 255/21

F_2? 317/32

123 P_0

$S_{0\,Dem(?)}$ 072/34N

S_0 085/30N

S_1 110/25N

F_1 075/11

124 P_0

S_0 070/26N } 062/14

S_1 121/16N

125 P_0 S_1 122/17N

126 P_0 S_1 073/23N

127 P_0 S_1 115/30N

128. $F_{2?(1)}$ 206/22

$S_{1?(0)}$ 002/47 W

$S_{2(1)}$ 115/13 S

certainly appears to fold

slaty cleavage

late qtzose slaty/phyllite

129 S_{1} 096/69N

grey green'd phyllite

432' paces

June 22 AIR PHOTO 8384 JWF 22/6/77 M1

1. 4 POSTS 2 ILLEGIBLE

Nos 2 MX, 196, 197 Feb 16, '69 E.C. Copp

Mored o/c of v. planar phyllite 1B with calc-sil gneiss
Unit C/B of SE Ridge Typical near graphite pcies

2. Qtz-rod phyllite, wavy S_2 seen from opposite bank.
3. Phyllite, no qtz rods ?P
2+3 S_2 dipping ~ 135/30 NE

4 Limy V. impure Unit 4
Small rootless isoclines in rusty qtzose band

5 15' from qtz-rod phyllite

dipping 40' normal to strike
~ 120/40 N.

320 F Pacific Rainproof

6. Phyllite Unit B/1

S_2 155/53 NE

7. Unit 1

S_2 156/41 NE

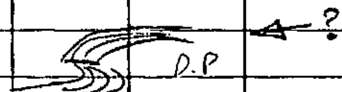
Many qtz-rod phyllite — nice rootless isoclines

8 D_0 Wide spaced cleavage due more to qtz-richness than cren fol.

9 B musc phyll with lithon struct in lim + qtz bed

S_2 110/29 N

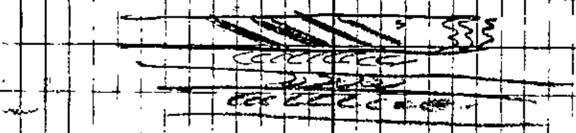
D_5 - F_5 057/21



Rock all shot thro with these little nappes.

V good S_2 outcrop. Almost think you should see S_0 on lithons.

Banding in qtzose layer



10

S_2 076/30S

S_x 127/23

S_1 Dominant folded

Graphitic ^no phyllite M-10

not very black

Yellow rusty zone M-73-L1

DOWN PLUNGE

20' OF THIS UNDER std chlorite

qtz rod phyllite

S_2 174/29 E // lith banding

in limy horizons at top

10

Basalt lithons, [illegible] [illegible]

etc

F_3 054/39

Rock seamed thro with

mini thrusts tension gashes kinks etc.

11 OLD GLAZES + RIBBON

12 4 BLEACHED ILLEGIBLE POSTS

13 LIMY BAND IN PHYLLITE AS 10

S_2 126/37 N

to NE orange limy bands in

grey no phyllite

14 D_0 S_0 163/51 E

15 4 OLD BLEACHED ILLEG. POSTS.

16 D_0 12/13

S_2 122/40 N

Rocks is Unit 4, but

same band : as Unit 10 in

southern graph II

17: A_0 9

Prob same band.

pale green musc phyllite

18. Greenish chloritic phyllite with rusty, mangy

S_2 144/27 quartzose lenses

along lithon structure

19. D_0

S_2 068/88 Beaut F_2 folds

F_2 S_x 128/6

M-3

20. Phyllite

s₂ 017/34 E

21 Po s₂ 003/47E

22 Unit 4 s₂ 000/28

Lime/phyll ratshit

23. 4 POSTS JUNG 7/71 M. ACKPACK

No 2 Tray 6

No 2 Tray 5

No 1 Tray 8 (?) NW 1500 R

No 1 TRAY 7 NW 1500 L

167° TO V END OF o/c 3

228 TO o/c 10

24 Unit 4 - V plana s₂

s₂ 133/74N

Developing larger scale banding

3" Becoming massive

25. Rusty quartzose schist

→ Unit Cd

Cu 86, Pb 66, Zn 320 (M-73-23)

26. Do 24 only more or
147 / 53N
less liney more calc sil ?
still Unit 4

27
28 Four posts.
No 2 Tay 8 June 9/71 MacLeay Acklack
No 1 Tay 7 ? not leg.
Rocks do.

29 Do more greasy less liney.
136 / 39N

30 Calc sil phyll unit 6?
156 / 53N

31 Unit 4 typical.
5½ 141 / 51N

June 25 (24 Plot) M-4

32. S_2 150/43N unit 4
some 3° banding + planar schist, maybe diopside
086/64N = contact of
dyke of intermed - intrusive
Massive dyke, planar contact
(M-32)

33 D₀ S_2 140/51 N

34 D₀ Photo of isoclinal D_2 fold in
vein qtz
35 S_2 166/26 NE
Begins to look like Unit D of
legend Pltn. Thick Qtz bands.
black + graphite. Some schist
35 S_2 172/51E
Coarse grained calcsilicate gneiss.
Dark speckling diopside qtz?
Dark unit Ca?

36 D₀, limy, not flaky → Ca but added
S_2 156/23
...

S_2 08?/135 IN CRUDELY FOLIATED
FOLDED TOURMALINE PEG DYKE
Tourmalines oriented // foliation,
conc'd at margin where fol is lost

CSG

M 36

RANDOM ROSETTES IN CONTACT

37. Basaltic loc? Boulder?
Hornfels?
??? ?

M 37

38. Do Fine schist parting / bands.

39. S_2 097/33N may have moved.
Unit D to Cc
Banded felsic cong + fine
bands cordus at.
kombedier road / trench.

40 Do S_2 173/25E may have moved

41 STREAM BED ALL GRANITE BOULDERS
no o/c ?

M-5

42. o/c forth of marg...
43 beaches of granite
Abt of andesitic ... boulders ...

44. Fo 'ld granite 102/44N
45. Dark banded CSG
s 063/53 S
46 Skerry contact ... of bath?
(M46)
47 Schist
S_2 133/36N
48 Oxide & schist [M 73 L5]
49.
s 134/26N
Limy CSG Unit Co

50 s 23/33N
Banded ... CSG (M-50)
51. do
52
53 " 18/30N
... - qtz - cream
Alt ... qtz - dk green grey
54 " 12/30N
reverts to unit 4.

55 Calcsilicate phyllite (CSP)

013/40 E

good lustrous grey phyllite

with blocky gossans CSG

→ Cc

56 CSP / UNIT 4

173/27E

57 Unit Cc

162/34 E

neat isoclines in o/c opposite

58 CSP / (4)

167/38 E

JULY 22 P—1

(P1) S? 005/38E

Gneissose amphibolite, tactite ?
hornblendite ? pyroxene ?
Pink felsic layers.

2. Do. 165/49E
3. Do.
4. Do. 026/30E
V. basic — amph-rich, pyx ?
some lime P.4

5. Do. 171/37E
6. Porphyritic anvil batholith
7→9 Do.
10 Do 'pure' boulder fields, got
float outside these fields.
11 Look very granitic
12 S? 181/49E vert?
Coarse v.l massive greenstone
not conspic banded or well
foliated
Some strikingly banded material

13 s ? 127/58S
More foliation than a gneissic banding

14 Heaps of granite - all flat on this hillside is granite - outcropping as cliffs above are got

15 s 164/54 E
Amphib gneiss & more basic

16, Do 170/47E

17. Po 155/34E
18 Do 175/47E
19 Granite outcrops, almost cut.
20 s. 043/73 SE
21 " Do 18. 143/57EN
22 Po 20 s 015/80W
Porph. granite - flow alignment
- & foliation - shearing

23 ~ Do 18 177/63E
24 ~ Do
26 Do 000/39E

26 Po 5 001/39E P-2

27 Do 008/54E
same white diopside gneiss
P27

28 015/49E
Pom white calcsil gneiss
P28

minorly limy

29 F2? 097/49 Lg D.P?

alt of B marble / CSG

30 CSG

31 CSG 153/48E
Gray Green + purple-brown banded
diopside - qtz

32 Pom amphib gneiss

33. CSG. 70/45
P 33

34	Po	005/56E	
35	Po	175/41E	
	lens of coarse calcite. Dark, crenulated, may have appreciable amphibole (act-horn)		
36	Po	167/40 E	
	Grey, fissile cong like Unit Ce		
37.	Po 36	020/43 E	
38 m	Po	015/42E.	
39.	Po	153/65E	
	M - amphibole?		
40	Banded amphibolite	165/42E	
	P-40		
41	Po	001/47E	

P-3

42 S. 011/38E BAG

43 S. 172/39E BAG
the fragmental texture

44 173/37 AMPHIBOLITE/GST

45 Float of bedded tuff

46
Float of qtzose slate
Gst S 062/35SE

47 D. 153/35E

90
12
34
23
opqrstu

AUG 12

S – 1

(1) coarse schist.

S ? 122/37N

bi rich not bi ∠ = ?

(2) l_o both v. coarse with

bi, stau, gnt?

s. 087/71N

073/37

(3) l_o s 097/52N

(4) l_o s. 123/57N

(5) l_o s 108/33N

(6) l_o s. 105/67N

132/21 s may be

a second ½"–1" spaced wrinkled

cren fabric in v. coarse schists

(7) l_o 101/85N

m

8 Do 075/61N

9 Do 091/48
Coarse gnt + staur still
with abundant residual qtz rods

10 Do 108/53N

11 [illegible] v. qtzose gneiss schist
101/42N

12 g-d/g
un foliated non porphyritic

13 Do 11
083/55

14 Hb-bi g-d. equant d
med-coarse g'd

15 [illegible] 066/51N
Meta qtzite?
could be ccg

16 CSG? 8-2

141/35 N

17 Black [illegible] S 17

137/39 N

18 124/34 S

[illegible] [illegible] [illegible] [illegible]

S-18

19 Do CSG

027/30 W

20 WHITE CSG

043/18 W

21 Do

050/23 NW

AMPHIB [illegible] 21 & 22

[illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible]

22 1st pebble conglomerate

amid [illegible]

[illegible] very flattened [illegible]
[illegible]

23 033/[illegible]W

[illegible]

JULY 1ST AIR PHOTO 8345 ... A94 T-1
JPF 21/3/77 100 → 113?

NE OF TAF 1-12 / NORTH 8391

(1) Grey quartzite, not sparkling } o/c
T-1
Grey qtzite some sparkle &
Brown qtzite
Dk grey-black chert & arg. chert } float
forming fine float
Banded chert
Red qtzites

(2) { Heave of grey qtzose slate T-2
{ & arg chert (dk grey black), minor black chert
Float of brown qtzite

(3) D₀ frost bnd.

(4) S₀ 112/32 N
finely laminated qtzite T4
S₁? 131/51 S (Fold)
v. weak fract cleav.

5. Vesicular weathering pale green
coarse tuff S₀? 165/80NE T5
6 - CARBONATIZED AT BASE

S_x 127/16
S_1 120/48S
carbonatized at top as well.
7.
Rabbit burrowings of qtzose slate
T-7
8 Heave Po
9 'Heave' Po more qtzose than 7(8)
10. S_0 072/20S
Coarse tuff as 5-6
T-10
Capped by fissile calc'd tuff with
orr. carb bands (3")
APPARENTLY DIPS UNDER (9)
12 Float qtzose slate
11 Massive dark doleritic gpt
T-11
13 Po (11)
S_0? 015/9E
6' BANDING (PARTING 2 1')
CRYSTALLINE.
Coarse gabbroic T-13
14 Frost boils of slate +
black chert. (OVER 13)

T-2

15. This o/c all pillowed intermed volcs.
S_0 046 / 12 NW

16. Qtzose phyllite
S_1 062 / 3 NW
$S_1 \times S_0$ 333 / 3
S_0 153 / 55 SW. VAR. (TRICKY
Some S_2 T-16

17. Tuffs — some lime
18. Qtzose phyllite 18 OR CARB
19. Pillows
20. Coarse cream carbonate, or carb below
S_0 066 / 38 S
24 Brown slaty arg (tuff (s?)) gg lime band
S_1 042 / 16 SE S_0? 086/37 S
21 A lot of black slate / chert bed
also granite, may be irrelevant
22 Thrust, or carb + bedded tuffs
on top
23 Massive basic/int volcs (tuffs)
with py/po (mag?)

24 Fault

25. Pillows under massive coarse vesic
tuffs / volcs. S_0? 040 / 10 SE

26 Coarse carbonatized tuff

S_0 176/19E

S_x 131/14 VAR

S_1 128/47S VAR

Bands of Or carb

+ $\frac{1}{10}$" vesicular [illegible] of some

minor pillows

27. Heave of bedded tuff

28 S_0 093/11N

Bedded tuff, siliceous?

S_1 weak to absent.

29 Coarse tuff minor oscarb

30. (Basic) intermed pillows

31 Or. Carb banded Tuff THRUST

32 Talcose phyllite $S_0 \wedge S_1 \wedge S_2$

T-32

S_0 170/80-90 W

S_1 010/27E

$S_{x\,0+1}$ 170/11

F_2 CREN 080/22

S_2 080/vertical

33

S_x 022/7

T-3

S_1 006/34E

S_0 056/9NW.

Carb'd tuff

34 Great pod of greenstone in phyllite. Coarse calcite + grey phyllite at lower contact. schistose irregular margin

35 Do. 32 SPEC

36 Grey qtzose phyllite structurally over tuff.

S_1 078/27S

S_1 crenulated

37. Heave + boil of carbonate, carb'd tuff + grey qtzose phyllite

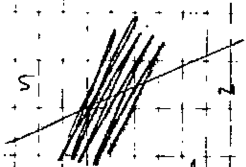
38 T-38

Quartzose banded tuff?

+ slates

39 S_0 077/69S

S_1 less steep



Bedded coarse massive carb'd tuff + fissile carb'd tuff.

40 Quartzose dk grey slate.

41

S_2 175/19W
S_0 ~~less~~ steeper

Qtzose tuffaceous banded
over qtzose dk grey slate
over light grey slaty phyllite.

42 light grey slaty phyllite, carb veins.
43.

S_1 124/275
S_x 129/4
S_0 115/195

Banded "talcy?" slates
+ grey cherty bands

44 Po

45 T-45
Dionite plug.

46 Float as 42-44

47 Banded qtzose tuffs
S_0 050/19 NW
S_1 083/17 S

T-4

48 Banded gtzose tuffaceous

49 Tuffs

50 Massive voles

July 4TH — T-5'

(51) Boulders of brecciated lst - grey. (massive to flaggy)

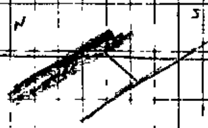
T-51

dotted in amongst heave of quartzite.
Also higher up heave of buff coarse marble (dolomite?)
Bedded ~ 6" + some thinly laminated

O/C S_0 032/44 NW
3" bedded

(52) Heave of dk grey slate
↓ P_0

53 Dk grey qtzose slate
S_0 117/25 N
S_x 098/10
S_1 178/5 E



54 Brown knobbly lst as (51) top
S_0 166/18 E
Thin bedded 2"-6"

55 Arg qtzite + qtzose slate as (52)
S_b 047/26 NW
S_1 039/23 SE
S_x

320 F[illegible]ite Rainproof 99/3

	1" – 6" bedding
56	Black slate and chert bed/lense
57	Massive Qtzite, grey granular
	S_0? 044/39 SE
58	Po (float (lens?)) abundant
59	S? 080/125
	Crudely pillowed? vesic weathering
	irregularly wavy limy veins
60	PILLOWS
	S_0 ~ 100/45N
61	Po
	S_0 094/24S
62	Po
	S_0 072/34S
	S, less steep.
63.	V. schistose – tuff?
64	fragmental
FAULT	
65	Pillows – vaguer.
66	fragmental S, 021/10E
67	Vesic weathering tuff?
68	S_0 ? 097/28S.
	pillows?

FT-6

69 Coarse greenstone T 69

70 Po may be a tuff massive

71 Tuffs ash carbonated tuffs

72 Pillows. So 102/21 N

73 Fissile dark tuff

A bt of grey gtzse slate float

74 So 005/27E in

bedded pale green tuffs T 74

76 Po So 165/21 E

S1 sub horizontal

Fissile coarse carb'd tuff

77 Cemulated gtzse phyllite overlying

all the above T 77

S1 132/20 S

Sx 167/2

78 Po

79 Coarse w. lumpy tuffs

80 Bedded tuffs as 74/76

81 V. Qtzse slate over carb'd coarse tuffs

82 Heave of grey lumpy gtzse slate and

flaky grey bt T 82

83 Fissile coarse tuffs T 83

S1 043/33 SE

84 Do some orange lime.

S_1 084/15S

85 [illegible]) + band of limy banded slate

86 D_2 folds + crens in $S_1 \wedge S_0$

qtzose light brown weathering limy? slate

87 1B gy lst/tuff underlying 1B gy lst/gy phyllite

S_1 143/20 NE

88 Banded grey and buff marble

89 light-mid grey phyllite

F_2 294/13

P.P

S_2 109/64 N

90 Marble as 88

91 S_1 142/27 S

limy chloritic phyllite at base of gst lens.

92 Coarse chloritic gst horiz with limy chloritic top

93. Chloritic limy phyll.

S_1 0[illegible]/18E

94 ~ T-7

16 Chlorite tuffs + tuff ext

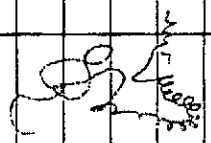
S_0 074 / 87 S

S_1 113 / 71 S

S_x 244 / 79

S_2 095 / 57 N

BEAUTIFUL $F_2 \times F_1$



AUG 11TH HAPPY BIRTHDAY HERBE T-8

100. S_2 103 / 31N

Foliated g-d.

alot of orange aplitic material

101 schist.

S_2 088/20N

102 Do

S_2 051/33NW

103 Do

S_2 022/26E

104 G-D/sch contact

F_2 138/6

D.P.

105 S_2 sch.

105/25N

106 S_2 g-d // S_2 och.

100/30N

107	S_2 sch 082/30N			
	leucit grd boudins in sch.			
	boudin plunge 065/5			
108	S_2 sch 087/35N			
109	S_2 sch 107/34N			
110	S_2 sch 104/30N			
	rootless qtz veins			
	no mot of these schists.			
111	S_2 sch 114/46N			
112	S_2 sch 112/47N			
113	still a coarse (gnt-staur) - mica schist			
	mic [illegible] euhedral gnt + staur			
	S_2 sch 115/45N			

T-9

114 schist

115 Grey/cream banded csg.

116 schist 114/90

117 schist 114/41N

118 S_0 115/46N

tight F_2 chevrons

in qtz rods

schists still coarse & banded.

119 S_0 111/64N

tight F_2 folds in S_1 gneissic

banding in gneiss above, cf 118

in schists.

120 schist S_2 135/55N

121 S_2 149/90

big andalusite rosettes 

122 S_2 106/63N

Huge andalusite blocky mol. schist

123 S_2 103/44

Pale reddish grey mo phyllite/schist

with and porphyro.

124.	P_o	111/66N	
125	P_o	137/81N	
126	Grey Phyllite	071/23N	
127	Graphitic Phyllite	Phyllite	
128	P_o S_2 crenulation	117/64N	
129	as 125.	S_2 112/74N	
130	grey Phyllite.	S_1 167/54NE S_2 114/75S	
	S_2 a bank	S_1 dominant crenulation?	
131		S_2 124/8N S_1 125/59N S_2 dom SU.T.	
	Penciled	grey Phyllite.	

132. S_1 160/57E T-10

as 130

S_1 125/09E

F_2 128/16

broad kink F_5? 029/42

S_4 047/67 NW

133. S_2 135/19 N

S_1 flex slip folded

lam, silvery grey phyllite

with $S_0 \times S_1$ folded about F_2

134 Lam silver phyll

S_2 004/22E VAR

S_1 038/26E VAR

135 Po S_2 163/50E

some light gy phyllite lst

lenses

orange calc veins

135 S_2 008/39E

F_2 101/37

D.P.

J. L. DARLING CORP.
TACOMA, WASH. USA No. 304

Rite in the Rain WEATHERPROOF

136 Gst S_1 017/27E

137 limy phyllite
S_2 149/36E
folded S_1 x S_0

138 Cream to grey c. phyllite
marble of marble.

139 S_1 021/59E
limy phyllite overlying
som lst/marble + of carb

limy chloritic phyllite horizons
capped by gst with
lime blebs S_1 < S_0 = limy tuff
S_1 110/25N

overlain by limy gy phyllite

140 gst. coarse amphibolite/diorite

141 int-acid pillows of o/carb.

142 S_1 027/306 T-11

fine frags

143 gtzite

S_0? 094/195

massive, banded gy w.

no sparkle

J. L. DARLING CORP. TACOMA, WASH. U.S.A. No. 304

"Rite in the Rain" WEATHERPROOF

JDF 12/3/77

AIR PHOTO	STATION
8345	1 → 94
8391	100 → 113
?	114 → 143
?	

JUNE 20 X1

1. Top of Maghi Mtn Massive

Massive black flecked, epidote flecked, tr py, malachite stained, basalt.
Some v. vesicular
breccia / xenolithic with feldspar vesicular frags. (X-1)
Some clean surfaces show feldspar clusters
– BASALT TO BASALTIC ANDESITE

A LOT OF KNOBBLY BX OF ACIDIC (HARD) FRAGS, with some crude layering (X-2A)

2. Incipient foliation? or flow shear?

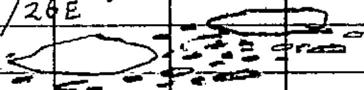
3. Knobbly close packed internal bx as above. (X-3)

4 Foliated (compaction!) fragmental as on Anomaly Hill. Tension fractured med to pale green frags $\frac{1}{10}$" – 6" in dark matrix

large frags apparently with chilled margin

All frags elongated

S_1 000/26E (X-4)



5. Foliated get (X-5)

6. Well foliated coarse tuff (X-6)

S_1 068/15

may have moved

7. KNOBBLY FRAGS

6 Asbestos in sdd alt rock (X-6)

8 Massive pyritic magnetic zeolitic basaltic rocks

Pyrite or spheres?

9 Fissile frags.

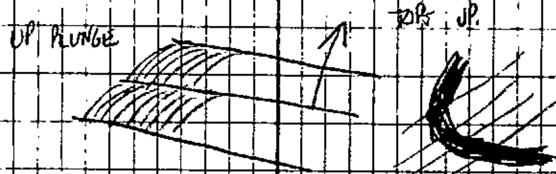
S_0 switching variable

10

S_1 106/50S

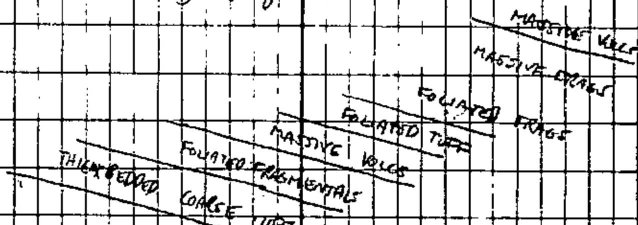
X-2

S_o 156/16 NE
S_x 130/17



Coarse thickbedded graded pyroclastic/tuff
(X-10)

Red cherty frags



9. Coarse pyroclastic crude bedding
S_o 134/38N
Below frags

Between 9 + 10 finer banded tuff
some orange calc

Base of 9 - bent banded tuff with S_1 refraction. (X-9)

Base of (10) coarse foliated tuff
as (6)

11. Tuff? + black flecks weak foliation
lit of or. carb + unit ?
2x (X-11)

12 Magnetic pillow basalts
(X-12)

S_0 117/25N
v CRUDE.

Rusty pyritic zone at base
to SW. (X-12A)

13 Overlying flinty intermed - acid pale
green volcs X-13
50 - 100' OF MASSIVE FLINTY RUSSIA
over massive knobbly frags as (2), (2)

14. overlying coarse green foliated tuff
S_1 169/22E
X-14

S_1 prob // S_0
this becomes inc. "fissility" (cf X-15)
downward then into good pillows

X-4

24 Poorly foliated gst (as (5)) 'Pisolitic' Tuff?

25. Acid-int pillows over (E of) evenly bedded tuffs as (22) int or carb at base.

26. Or carb bluff of tuff — as (24)
(over felsic pillows?
X-26

27. S_x 092/15
S_0 095/28 N.
S_1 075/37 S
THICK BEDDED RED TUFF AS 24/26 etc.
V. ZEOLITIC & VESIC WEATHERING.

28 Interbedded of carb & slate in F_1 fold
X-28

29. as 27
foot of jasperoids.

30 P_0 probably

31 As 22

33 Fissile tuffs

32 Banded grey slate small fault between two

34 One freaking great cliff of pillows. Beautiful. Show & waterfall. Oo-lah-lah. C'est magnifique!

S_0 176/37E

35 S_0 012/32E

S_x 160/19

S_1 155/40 SW

Fine banded tuff over coarse tuff + agg.

D_0 S_0 033/33E

S_x 139/32

S_1 100/45S

36 Fine pyroclastic (X-36)

37 Knobbly fragmental at top /c!
Mildly foliated fragmental lower down with some coarse non-fragmental. Prob tuff.

S_1 101/51 S

38. Mineralized tuff ?

398 S_X 118/25
S_0 152/39 E
S_1 098/50 S
Bedded agg.

40. HORIZON OF GREENSTONES.
Massive. Tuff X-40

41. Knobby acid frags.
Acid vols at base.

42 D_0 S_1 105/18S

June 21

42 ↓ Agg
43 Agglomerate

S? 038/41 SE

$S_1 // S_0$? — a fissility with elongation & flattening of frags.

↓ Agg

44 Carbonatized Agg, v. fissile

Qr. carb.

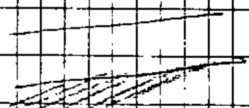
Fault zone.

45 Very top of hill non-fragmental, basalt?

S? 151/71 SW   X-45

46 Agg

S_0 088/27S



S_1 slightly steeper in finer aggs.

47 Coarse tuff / fine agg.

S_0 110/45

S_x 100/2

S 092/77S

} TRICKY

48 P_o

S_o 015/15E

Rocks magnetic reading tricky

49. P_o 49 P_o living pod.

50 Massive volcanics. X-50

51 Magnetic fragmental

(S_o?) S_1? 093/24 S Rodgy.

$51 \rightarrow 52$ OR CARB'D FRAGS

52 P_o

V. knobbly at base

53 V. knobbly subking bedded.

X-53

54 Knoll of indeterminate significance

55. Knobbly lsc or flow material? of knobbles prob int-acid

56 Ditto irreg distinct of ruggy agg + fractured volcs

57. Scant pillows + assoc knobbly lsc

poor up top

58 Carbonatized agg

59 Massive fractured pale V over agg.

X-7

60 Agg non magnetic
(Si) S_0 015/15E

61 Magnetic agg.
S_x 122/14
S_0 104/30S TRICKY
S_1 097/68S

62 agg
63 Cunning gully
South bank is carbonatized agg

64 Agg.
65 "
66 "
67 " $S_{1/0}$ 351/37W
68 "
69 " some hillocks
70 "
71 " & carb. v. fresh surface, no lichen
72 " QUITE HARD FELSIC (MID GREY) GRAIN
73 "
74 " S 102/27S much yellow carb at base of o/c

STEEP EASTERLY S_0
avg 160/60E

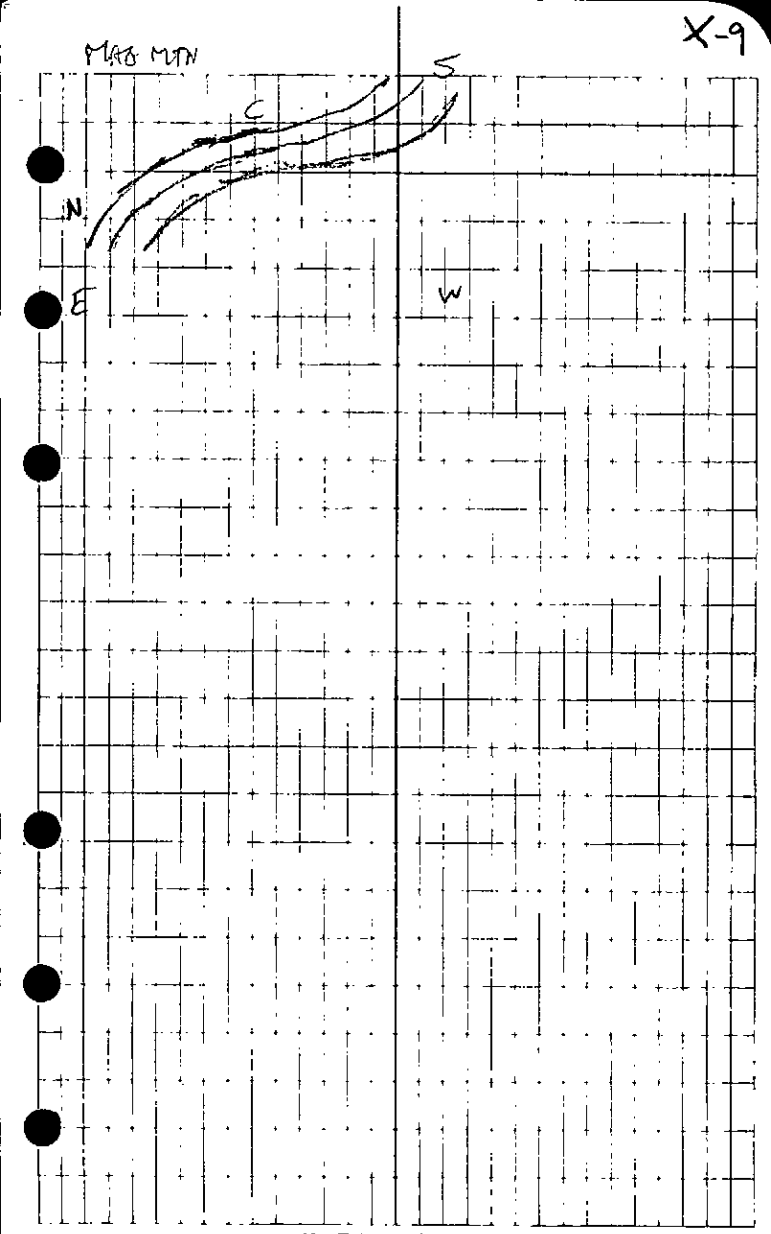
75/76 P.

X-8

June 26 5.40 p.m

77. V. knobbly frag X-77
overlying or. carb zone

78 Agg
50? 013/56E
006/51E


MAG MTN
X-9
C
S
N
E
W

Sept 2ND. X-10

(80) Bedded magnetic acid/int volcs/tuffs v. fractured (cooling/tension)

81 Po Magnetic no reading ~ 160/25E – So?

82 So 029/13E
3' lot band overlain by frags. overlying all other stations

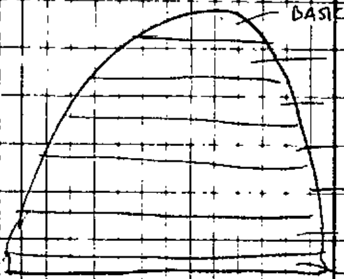
83 Pillowed acid/int volcs

84 Bedded volcs/tuffs as (80)
magnetic ~ 030/30E So.

85 Pillows
86 Rubbly pillows & frags.
87 Massive volcs minor pillows
88 Rubbly pillows with orange lime
89 Volcs
90 Float of slate
may be moraine

320 F Pacific Rainproof

probably intermediate-acid (less basic than (12)) then into v. acid tuffs
zone v. "pisolitic" (glass frags?)
with lime (grey) + chert (reddish)
nodular = bands. (X-15)
Then into or. carb zone at base



16. VESIC INT FLOAT X-16
MAY BE INT-ACID KNOBBLY BX, PILLOWS
OR TUFF
FLOAT OF KNOBBLY BX
" " BANDED CARB'D TUFF
X-16

17
S_0. 153/85E
S_x. 153/20
S_1 078/25S.

18 Banded ? arg. tuffo float

19 Typical Moody Hill fragmental
(pillow lox?)

20 Do.

S_x 143/17

S_0 175/27E

S_1 140/24S

V. CRUDE BEDDING.

21 "Pisolitic" zeolitic pyritic tuff. FLOAT
Or. carb fibrous veins, rel massive

22 Do not carbonatized

S_0 145/23N

S_x 125/7

S_1 109/51S

(STILL ON LOWER LIMB OF SYNCLINE
immediately overly or. carb zone.)
Float of same between dc + on to N

23. Schistose fragmental / Typical

[illegible]

Δ7 → Δ 147 A/R PHOTO ~~8342~~ Y-1
JULY 3. 46 → 51 " " 8330 JDF
77 → 100 8339 4/7/77

① Siliceous pale green-grey banded tuffs
S_0 122/37N
S_1 130/36S Y-1
S_x 304/17

overlying a coarse dioritic (gabbroic?) body

of the base of the S ridge of Pillow Top.

2 Po Y-2
3. Ao ① S_0 127/45N
4 Gabbro-diorite as ①
5. Heave of banded tuff / tuffaceous + grey crenulated phyllite
Y-5 True
6 Heave + sub o/c of chloritic vesicular weathering tuff (pillows?) + lime + pale grey crenulated limey slate with S_0 underlying S_1 dips N 30° NE

7 Float of black banded (except 1 + 2) chert. Heave of chloritic fissile as ⑥
8 Float as
9 Po ①

S_0 165/39 NE

320 F Pacific Rainproof

10 Po

S₀ 057/44 NW

11 Boil of cren'd grey phyll and orange carb'd unit 7 some ep? 73-40

Cu 150, Pb 10, Zn 35

11→12 FLOAT OF OR. CARB'D TUFF AND GREY - DARK GREY

↓ CHERTY SLATE

13 Brown carb'd tuff

Fissility ~ sub horiz variable

14 Massive tuffs?

15 Massive tuffs? overlain by pillows

S_1 087/14N

Pillows flattened, not v. vesicular

some grey + orange lime matrix

16 Massive vesicular volcs int (basic)

17. Fissile meta tuffs. S_1 sub horiz variable.

18. S_1 058/10 NW APPROX

Pillowed volcs as 15.

19 Flattened vesicular pillows.

S_1 sub horiz

20 S_0? 068/44 S

Pillows not very flattened if at all.

Y-2

Massive not vesicular as 15

21 Float / heave of agg & tuff

22 Probably pillowed some vesic weathering tuff between 21 + 22.

23 Float of fine agg + tuff some carbonatized

24 Pillows at

25 Acid crystal tuff - fine laminated
So 127/52N

Must be pre - S, no S visible, v. fresh looking

26 Do, but silica matrix coarse laminated

27 'rodding' 167/5 in massive porphyry looks like horiz columnar jtg may be normal to dyke trend
077/85N

28. Pillows Some orange lime in matrix
S, 020/23W

29 Do.
S, 013/28W

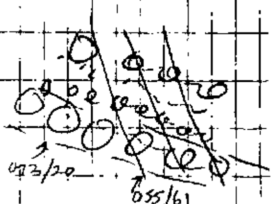
30 Coarse tuffaceous rubbish with mud or carb especially at base.

320 F Pacific Rainproof

31. or carb field.
with unit 7
32. S₀ 110/28N
massive bedded tuff
33 boil of grey slate.
34 or carb field?
35 Thick bedded gl... Y-35
S₀ 025/31W
? med grey
underlain by light grey ... slates.
36 orange ... ... pillows
37 Pillows overlying ... tuffs.
S₁ 121/9N
38 Schistose fragmentals
39 Pillows.
40 Never got there – Pillows?
41 " " ?
42 "
43 "
44 "

JULY 5. Y-3

45. Rhyolite breccia Y-45
Knobby, cant scratch, pale green-grey, tension fractured angular fragments. - flow banded
V. crude layering ? 073/20N
46. Float of black plate Y-46
and chert
47. Carbonatized fine agg, coarse tuff -
055/61 NW IS PROMINENT JTING THAT MAY BE PARALLEL TO CRUDE LAYERING. NEED A DISTANCE VIEW
Here again perhaps



48 Seds have incipient second cleavage normal to first Y-48
49 outcrop of seds in med bluish grey
" seds float scarp
50 Scree of bluish grey seds.
51 Rhyolite fragmental So 139/26N
52 Boulder field - may be vokes or Klint quartzite

53 Dark grey arg chert.
S_0 082/59N
S_1 111/20S
S_2 265/8
54 Carbonatized - agg?
55 Agg.
56 Contact. Much or carb
Or carbd chloritic sheared agg? over
arg chert. All float but no doubt
or carb ± or carb'd volcs at break in slope
↓
57 Fissured (quench or tension) acid-
int pale green volcs with fragmental
pods. Or carb'd at base
S_0 079/31N } 3' apart S_1 085/60S
58 S_0 130/21N
S_1 131/54S
SNAP
59 Quartzite as (35)
S_0? 077/46N
60 Grey slates
Some rusty slate breccia
73-L11
Cherty o/c at top.
S_3 357/90
F_3 357/37 BY FAULT W SIDE UP

(Y) (T) Y-4

RHYOLITE BX | PILLOWS

ARG CHERT | ARG CHERTS (GVACKE?)

? | LSTS

QTZITE | QTZITE

BLACK CHERT

BLACK SLATE

61. Grey qtzone + float of quartzite

62. Qtzite probably 5' thick in grey slates, over + under

63. Do, darker grey

64. Ridge of v. graphitic arg chert, T64

65. Two boulders qtzite

66. Frags.

S₀ 075/45N

67 " V. rhyolite

S₀ 125/23N

68 " S₀ 090/10S

69 " S₀ 068/18S

+ tan/green fract'd veins.

↓ Acid volc / frags?

70 Frags - sparse acid. frags in volc matrix

71 S. 130/37 S
Flattened "pebbles"
Tuff?

72. S. 175/60W
S. 138/26 S
Sx 186/20
dk brown/green mafic tuff. mixed underlying a block of grey-buff marble

76 Pillows surrounded by agg rhyolite
So 140/30 NE
overlying agg rhy

75 Rhy bx

74 Tuffs?

73 Rhy bx

JULY 6 Y-5

77

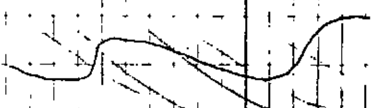
S_0 180/21 NE
S_1 050/43 SE
S_x 090/19

Bedded tuff coarse + thick bedded 2" – 1' Graded, tops up. Qr carb along S_1, lot of it about.

↓ Carb'd coarse tuff, not bedded

78 M folds closing south in bedded tuff (fine bedded, more acid) Qr carb as folded beds + cross-cutting vein + in S_1

~ 3 PPS ↕ 5'



2-3' thick buff grey lat land.

← 50' →

broken hinges Very coarsely recrystallized crystals ~ 2"

79 Qtzose? tuffaceous seds Y-79
over grey phyllites
S_0 130/20 N

80 Dyke or plug? Y-80
all sorts of cren'd phyll about
Y-80

81 Coarse bedded tuff

82 S_1? 102/49 S
Massive fract'd to crudely
pillowed volcs
interstitial & fracture fill tuff lime
Crude layering sub horiz?

83 Frags.
Sub horiz bedded.

84 Frags

83 → 84 frags cept for o/c
unvied N of 83

85 Big porphyr and pillows

J_0 105/42N V. WAVES
" " RONNY PILLOWS

Y-6

86 Po

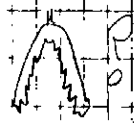
87 Po markedly porphyritic.
Basaltic / i. dacite ?

88 Po

S_0 070/27N

89 Pisolitic tuff Y-89
(overlain by v. vesic pillows.
may be v.v. vesicular ?

90 Metatuff boulders



91 Grapto slate dk grey

92 2 blocks qtzite

93 do 91 ?

94 opposite side of valley is
either quartzite or lot Cand - prob
same as 95 base of Marks Mtn ?

96. S_1 120/37S
Coarse tuffs.
S_0 ? 007/23E
SIMILAR TO 72 ??

97. Qtzite overlying dk grey qtzose slate.
S_1 sub horiz.
Parallel 175/horiz

320 F Pacific Rainproof

98

S_1 026/42W

$S_{x_{10}}$ 279/41

cleav 239/28

" 011/8

S_0 052/45NW

52/99 qtzite S_0 139/53N

100 Dk. Grey slate. fault in gut.

101 Qtzite.

102 Black slate S_1 sub horiz

103

S_0 110/40N

BEAUT LAYERED PILLOWS

104. S_0 106/18N

S_1 050/10NW — 105 GRAPH SLATE

S_5 065/82E GOOD — 106 " "

S_2 093/43S — 107 QTZITE FLOAT & VOLC

$S_{1 \times 2}$ 262/12

108 GRAPH SLATE

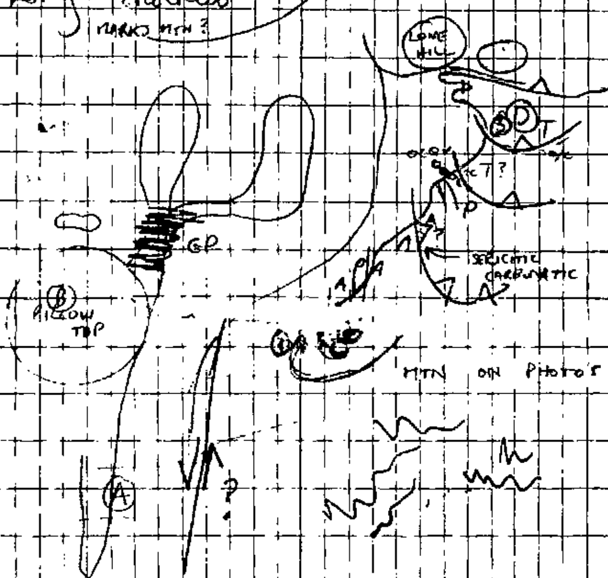
109 VOLC. TUFFS?

AUG 16 (69) ~~Y-154~~ 1972

Y-7

Fine + breezy

Long walk



① Halfway up W ridge of Ⓒ
a/c pillows + dk green as at Ⓐ
rather than Ⓑ

S, ~ 000/40E v. var.

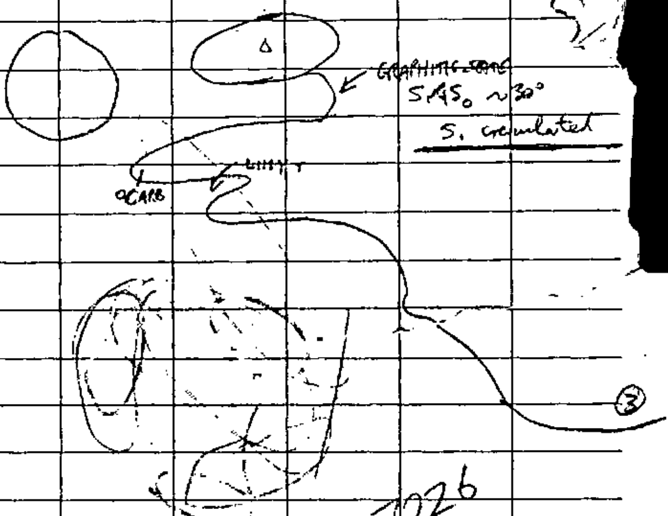
② Summit of Ⓒ 100' of AGG
~ 030/10 E

J. L. DARLING CORP. TACOMA, WASH. U.S.A. No. 304 WATERPROOF

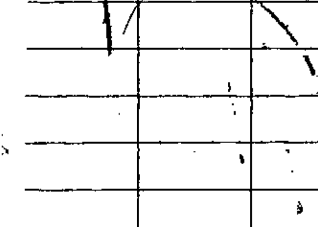
(3)

S, 096/25 N

in pirite coars pyrite T



778 7226



778 7350

778 7384

778 7234

JUNE 23

Ridge north of Maghi Mtn

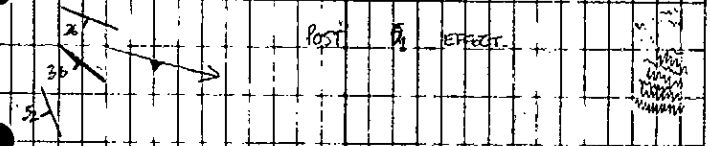
1. (Z-1) Qtzite + Qtz bx + Ahlitic (pinkish) material + vein qtz + leached outcrops. Volcanic?

2. All this ridge is of grey to black qtzite

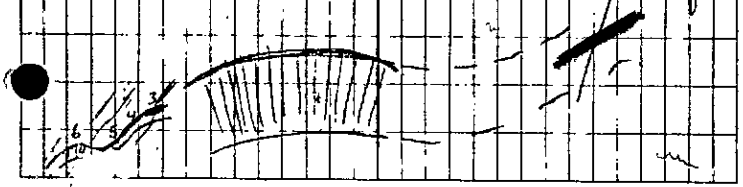
3. 1' beds of massive black qtzite IB ? 1"-3" light grey avg qtzite (fissile)
   S_0 118/26S
   S_x 125/2
   S_1 126/55 S

4. l_0 S_0 133/36S

5. l_0 S_0 151/52 SW



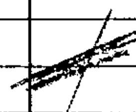
6. l_0 S_x 310/4 S_1 subvertical jam



7. S_0 125/34 S Po v. rusty
of base of schists at Dona.
Some qtzite bx with rusty matrix.

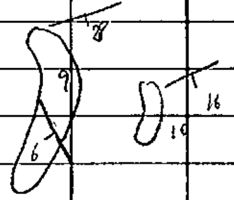
8 Fine frags black chert

9. IB lst/slat
(S_0 078/28 S)
Black calcite tension vein.
S_0 144/6 SW
S_x 296/2
S_1 109/46



Almost certainly a fault at (7)

10. S_0 071/16 S



Tuffaceous? qtzite underlying 9
V. veined, some punky material

Z-2

N. So 114/8 N

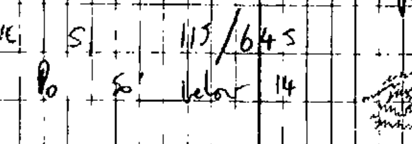
1' to 3-4' quartzite beds
rusty

12 { Sx 120/?
S1 119/68S
So 017/13 W }

13. PROMINENT RIDGE ON MTN OPPOSITE
BLACK FLOAT IMMED ABOVE.

14. So 119/66 N
Sx 299/6
Sx 122/73 S STRONG REFRACTION

Do 12/11 with ½" slate (grey) parts



15 TRUE S1 115/64 S
Po 50' below 14

16 Pale Grey slate

17. LST/SLATE UNDER 10
MAY JUST MISS HILL TO N.

18 S_0 086/44
S_1 109/19
S_x 267/3
lot slate

all this knoll but alot of
residual? or glacial? black chert float.

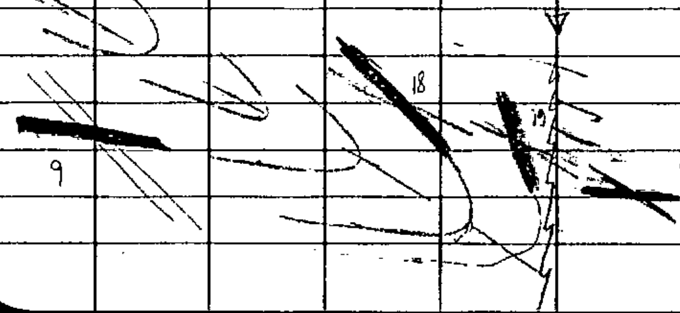
19. Do S_0 103/62S
S_1 104/30S
S_x 103/5

lots of shales
retain compaction
platiness.

20 Arg. qtzite Fissile, dk gy, mangy

21 qtzgy dk browngrey slates & thin slate IB.
S_1 111/40S
S_0 018/20E
S_x 145/17

FAULT BETWEEN
19 & 20



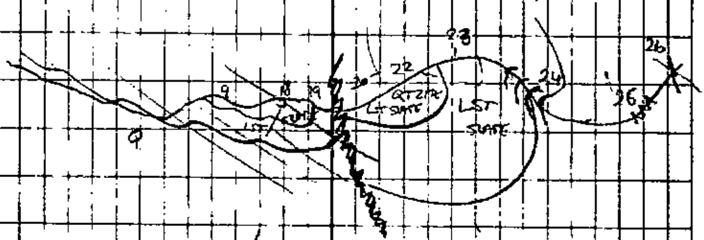
22 S_0 135/175

S_x 290/2

S_1 112/80 S

18 LST / ARGQ / SLATE.

23. 18 LST / SLATE S_0 ~ vert.



S_0 093/55 N

S_x 283/16

S_1 111/48 S subvert in plates.

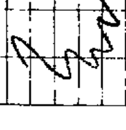
M REGION OF SYNFORM.

24 D_0 S_0 045/12 NW

S_1 sub vert.

25 D_0 S_1 123/57 S

SX 220/5



S_0 Boudinage

fine layers

26. P_0 S_0 18/61 S
S_1 less steep

27 P_0 P_0

28 P_0 S_0 084/33 S
S_1 098/71 S

ANTIFORM TWIXT 26 & 28.

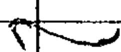
29 P_0 S_1 128/32 N P_2
(Pom slate. punky slate

30. Qtzose slate S_0/ wise
S_1 137/47 S

SOUTH INTO PUNKY LITTY SLAT. AGAIN

31 Crumbly veined dk gy black qtzite/chert. + slate.

32. Slaty dk grey bedded qtzite / qtzose slate.
S_0 129/18N
S_1 122/27N



33. Float:- pale-red gy qtzite / sandstone + qtzite bx (Z-33)

34 SILICA BX PIPE. ♀ Z-4

cf last years chore Flycamp 2

35 Slate S_1 138/50N.

36 Grey-brown gritty sparkling oot.
fine ground to ½" pebbles.

37. Dk blue grey/black fine chert pebbles
38. Reddish, greenish, grey-brown gritty
again

39 S_1? 1? 000/21E
(Z-39)

Tuff?

40 S_1 153/45S
mid grey gritite, friable
metaseds

41 S_1? 127/42S
Coarse sparkly gritite
S_0? crude banding //
Over the top S_0 167/23 SW
S_1 NOT EVIDENT.

42 AS 3s

43 lens of qtzite

44 s? 112/54N

Acid pyroclastic? gritty, coarse.

45 as 43?

46 S, 075/47S

Grey qtzite

47 grey slate

48 o/c to gritty qtzite acid pyroclastic

a. 44 but finer + more fissile

Sx 154/18

? S0 068/18 SE

S1 148/61 SW

49 Finely banded grey qtzite.

S0 080/17S

50 Coarse acid pyroclastics, as 44, coarse

51 S0 103/85

S1 125/45S

Sx 127/5

fine gritty qtzite

cleavage refract see leds right way up.

Z-5

52. Gritty qtzite | V. coarse | Z-S2

126/435 S ?

53 Carbonatized chloritic volcs ?

54 O/C HORIZ BANDED ROCK. VISIT

55 SPEC

56 Xenolithic acid pyroclastic

? S_0 174/45W

Compaction flattening ?

57 D_0

S_1/107 132/365

58. Fine banded black qtzite

S_0 053/48N

59 D_0 with oxide matrix qtzite bx on south side

June 26

60. Scree / o/c of v. orange material with large rusty o/c below + south.

61 Red banded chert (Z-61)

S_0 123 / VERT

S_x 303 / 8

S_1 118 / 435

Minor grey bands.

62 Bi-qtz-fp- alt porph (Z-62)

130 / 29N - jtset = paleo horizontal ?

156 / 61 W - jtset = trend of dyke ?

jts outlined by v punky clayey material

Orange oxides (60) may be same at base (or looks like) a oxide

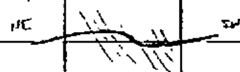
bedding ¼-1' beds with schistose parting - may be S_0

Really looks bedded from across the gap.

63. 1B Felsite, and massive light grey qtzite +

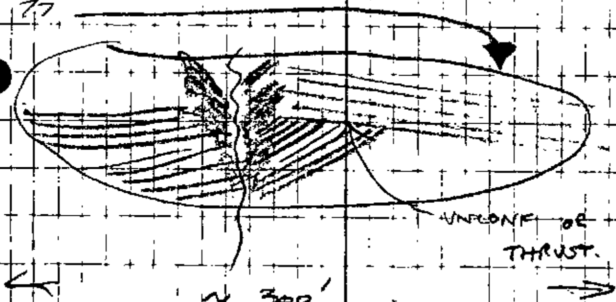
S_0 109 / 65

overlain by Einsteining red grey ehata

64 Another orange o/c of (60)
65 Fissile dk grey qtzite + light rusty chert.
66 1B lst/slate
67 1B Tuffaceous qtzite? + lst
So 295/21s
buff brown weathering odd smeary banding.
68 Orange rust + aplite (white)
69 Lo
70 Lot / qtz (arg/tuff)
So 149/6 NE VBR
Sx 121/2
DP 

gentle warps
71 Lo
So 118/22 N.
72. Lo
73 Black/dk grey rangy cherts
+ float of sand gry, gritty weathering qtzite
74 Light grey banded chert, some orange ox.
So 121/21N
75 o/c black slate/chert.

76. Dyke as (62) Z-7
trend? 126/65.5
77. IB dirty qtzite, shale
Flysch / Turbidite / greywacke
Graded - tops up
S_0 139/37N.
78 Dd ~ 120/40N
77.



80. light grey, orange rusty chert.
S_x 289/6 S D.P. N

79. Fossile arg qtzite (chert)
S_0 045/13 SE

89 Lot float
8? Some bd / arg qtzite
↓
lot float

82 : 1B LST / arg Q
S_0 148/13NE
S_x 122/6
S_1 126/65S

83 Po
S_0 136/36 N
M Region

84 Aplitic material Z-84
+ slaty Q

85 Qtzose slate (minor lst float)
S_1 110/35S

86 2-6" bedded black chert 1/4" slate
party

87 Much black slate float.

88 S_0 021/4W
Banded black chert
+ minor grey slate

89 brown siltstone float

90 S_0? 117/34S
Black crumbly chert + arg chert.

91 Dyke of aplite? grey
may be qtzite.

Brown acid pyroclastic/lapilli tuff

S_1 099/53S arg?

S_0 135/31N.

S_X 121/5.

93 Dk grey-brown slate

94 Volcanoclastic glassy grits

95 " S_1? 154/38SW

96 sandy slate

97 Aphanitic grits

S_1? 133/67 SW

98 S_0 168/38 W

do (92) Brown arg' tuffs acid

99 Do S_1 132/90

100 do 97

101 S_0 140/35NE

½" welded grey grits Z 101

Top of hill - cinder?

102 Fine grits, basalt

S_1 134/50N

103 QS conglomerate/bx

JULY 12 (8-11 Rot) Z-9

104 F_1 135/77

M? REGION OF BIG D_1 FOLD

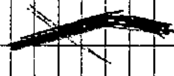
105 ? S_1 128/42S

S_0 steeper ?

may be local.

Both misty/white weathering, pale grey chert with py cubes (1/8")

106 S_0 080/16N



D_0 grey weathering.

107 133/10S

114/31S

V fine banded grey chert

108 130/17S D_0

109

LOOKING SE

WHOLE WORKS IS TIGHT

CHEVRONS ? PLUNGING NW SHALLOW

(110) SYNFORMAL ?? INFOLD OF LST I GRATE/SLATE
GREY LST FLOAT V. SHALLOW.

111 Cherb.

112 " S_0 104/15N

CHEVRON FOLDS ? Z

113 " S_0 137/19N S_x 321/2
Some black chert & likely black.
slate

114. Do gentle S dip
Apparently a sub horizontal ridge
from here to summit

115. Do S_0 117/41N.
White rusty S_1 127/48S

116 S_0 114/26 S
Qtzose slates, grey.
slates & grey chert.

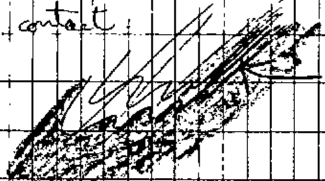
117 S_0 103 / 18 S
Grey bedded chert

118 S_1 130/37 S
Qtzose S_0 055/13N
slates, slates black chert.

(119) Tuff - small patch white Z-10
fissile material

(120) S0 095/38S

1B bt foliate
seems to be transposed //S1
at contact



(121) Thick bedded chert, massive, pure.
S0 094/17N

(122) Do beds 2"-12" 1" shale 1B.
S0 124/30S
S1 normal to chert beds, // to shale
beds.

(123) Grey chert or tancing mottled ?
S0 119/15N Z 123

124. V. black chert + glyne data

125. S1 107/32S Sx 286/0
S0 105/24N m thin
Rusty cherts. some dark maroon oxide
+ grey black some orange oxide while

126. Mid gy cherts.
So 131/42N

127 So 120/65N Z-127

128 Do 125

127 Brown grey weathering [illegible]
with cream fiamme
Tuffaceous?

129 So 121/49N
mid grey - reddish brown chert.

130 Do, aim. Z-61.
So 111/55N
+ orange motty white chert.

131 Massive grey marble.
So 145/37N

132 Heave of platy grey lst

133 Heave of grey arg. [illegible] &
slate Some ripple bedding

134 Massive to platy grey lst lenses.
finely laminated

135 So 114/28N
Massive marble as 131

Z-11

136 D_0

137 D_0

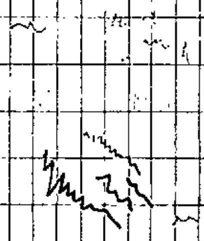
138 D_0

139 D_0 50 108/155

090/30N

140 D_0 ?

141 D_0



15TH JULY Z-12

142 IB red siltstone?/shale
so 119/67 N

143 Thin bedded so 123/71 N
grey pale weathering cherts.

144 Do so 134/50N

145 as 142 120/69N

IB siltstone/chert/shale

1" - 6" bedds ¼" - 2"

146 Do 131/90.
cherty bands are pale greenish grey
silty are reddish

147 118/60N
Cherts only.

148 Sparkling quartzite ... Z-148.
some ½" - 1/10" frags (chert) in it

149 Do brown-orange weathering n o/c

150 fine grained blue-grey argy chert

J. L. DARLING CORP. TACOMA, WASH. USA No 304 "Rite in the Rain"

151 Massive chert pebble conglom.
o/c 20' high, no bedding
155 (11 FACE).
So 154 / 52 NE
// elongation of pebbles
152. Black quartz slate
153 So 113 / 57N
Grey black 4" bedded cherts
— overlain by the green grey
154 green grey
112 / 90 to a fault south.
Posts
155. MG 109 No 2 ?
Feb 66
156 Po
So 107 / 53N
157 Po
So 116 / 72N
158 Black chert
159 Brick red + bluish grey
chert as 2-61
So 089 / 63N
spectac cream + red banded

160 S. 096/66 N Z-13

1B SILTSTONE/SLATE