89-506 o/c 3 5B7

Laminated med grn & creamy chl pllt (5D Head)

S_0 085/84 S (1)

CS_2 084/19 S (1)

$FA_x (F_2)$ 10° → 284 (1)

Photo oblique view of CS_2

89-507 o/c 2 5CP

Drk grn foliated metabas / pyroxenite. Weakly calcareous, strongly magnetic. Small brn clots scattered. Small pod, as o/c along (here mainly lam'd med → pale grn chl pllt (5D E?)

89-508 o/c 2 ~~5D?~~ 5B7

Thinly lam'd med grn & creamy chl. pllt.

CS_2 078/10 NW verging on PS_2

$FA_x (F_2)$ 9° → 359 (1)

S_0 steep.

Scattered s/c fol'd 5C also

016041

Cal. vns to 10 cm, e.g.

009/88 W

023/90 ; irreg. orientations, generally steep.

PS_2 Flattening foln irregularly developed & in thin zones, e.g.

013/36 NW (1)

023/41 NW (1)

102/16 NE (2)

085/34 N (1)

89-504 o/c 1 5B7

Finely lam'd pale → med. grn chl. pllt, non calc.; beds look gradational as if graded tuff beds. Uncrenulated foln ∥ to comp. banding.

Sample.

89-505 o/c 3

PS_2 091/5 S (cf. JULY 22)

Sim to 504, but calc in places;

1989 John Bradford

June 25 JB

DY AREA, NEAR CAMP

COOL, CLOUDY

89-501 o/c 3 5C

Massive, unfoliated drk grn loc. rusty weathering diabase or gabbro; ophitic text., ~ 60/40 mafics/plag; up to 2-3% diss. Py in places. M.g., non-magnetic

Sample

Qz-Cb vns to several cm wide.

89-502 o/c 1 5B0 & 2

Pale & med grn banded chl. pllt, strongly calcareous, & lesser muscov. pllt slightly graphitic in places. Musc. pllt silvery on S_2. Strongly crenulated S_2

89-503 o/c 3 5C

Massive, v. weakly fol'd f.g. metabas. w/ diab. text.; sim. to 501 but slightly finer grn overall & more intensely fol'd metabas → chl. pllt maybe just more strained zone → M.g. locally; igneous? text. clear. Pillow like blocky weathering.

89-509 o/c 1 5Cp

Dark grn mass. to moderately fol'd metabas → pyroxenite; w/ fibrous pale grn serp locally PS2 081/35 (JULY 22)

89-510 o/c 3 5B7

Thinly lam'd dark grn & cream chl plit, cf. JULY 22.

S0 steep, variable

PS2 098/11 S

FAx (F2) 6° → 070 (2)

Lin (L3?) 009 → 056 crem on S2 (2)

89-511 Fol'd dark grn metabasite o/c 3 5c

PS2 147/14 SW (3)

may be pyroxenite

Across gully to N is fol'd metabasite paler colour w/ chl-cal altn

89-512 o/c 3 F1 fold closure 5B7

Lam'd dark grn & cream calc chl plit (5DF)

S1 119/71 NE (1) NE clvg

FAx (F2) 4° → 279° (3) verg (2)

CS2 076/14 SE (1) NE verg. F1 fold

S0 steep, variable; S1 ?

PS2 113/21 SW (2) stereot. above CS2

512 (cont)

Lin. 2° → 312 (2)

intersect. S0/S2

PS2 132/23 SW (3)

L3(?) crem. on S2 (2)

2° → 314°

89-513 o/c 2 5c

M.g. diab. metabasite, v. sim. to 501-2

Loc. strong cal veining & oxidized diss. Py

89-514 o/c 1 5B08

Pale silvery grey-grn calc. plit. Intense S2 & L3t. Musc.-chl plit.

89-515 o/c 2 5B7

Pale grn & tan thinly lam'd musc.-chl plit w/ calc. "silty" bands. S1 ≃ S2, w/ well developed crem. on S2

89-516 o/c 2 5B0

Silvery-grey papery calc. musc. plit; strong lineated S2 fabric. Varies to darker grnish musc. chl plit

89-517 o/c 3 5D(c)

Pale → med. grn calcareous chl. plit.; V. intense flat lying S2; no comp banding visible.

FAx (F3+) 18° → 178 on crem. calculated S2 (1)

FAx (F3+) 2° → 226 on crem. S2 (1)

89-518 o/c 3 5C/5B7

Mass. pale → med. green metabas. w/ chl. spots. Thin 5DF along margin.

89-519 o/c 1 5B0

Silvery grey-grn musc. chl. plit, calc. veins.

89-520 o/c 3 5c

Med. grn f-cg calc. 100 pyroxenitic mass. Hb diar. w/ grn Hb (dyke?); sim. to 501 elsewhere

89-521 o/c 3 5B7

Med grn & cream, thin lam'd, chl. plit.

S0 136/65 SW (2)

S2 153/14 SW (2)

June 26 DY AREA Rain JB

89-522 o/c 3 SBT

Drk grn chl pllt, 5DF; steep S_1, CS_2 almost flat; interdigitates w/ 5C, w/ intense shearing of 5C along margin.

Photo - interdig. 5C & 5DF

S_0 090/65 N (2)

89-523 o/c 3 SBT

Thinly lam'd drk grn & pale tan chl pllt, prob 5DF, w/

S_0 093/53 S (2)

L_2 5° → 097 (3)

Weak CS_2

89-524 o/c 3 5DF SBT

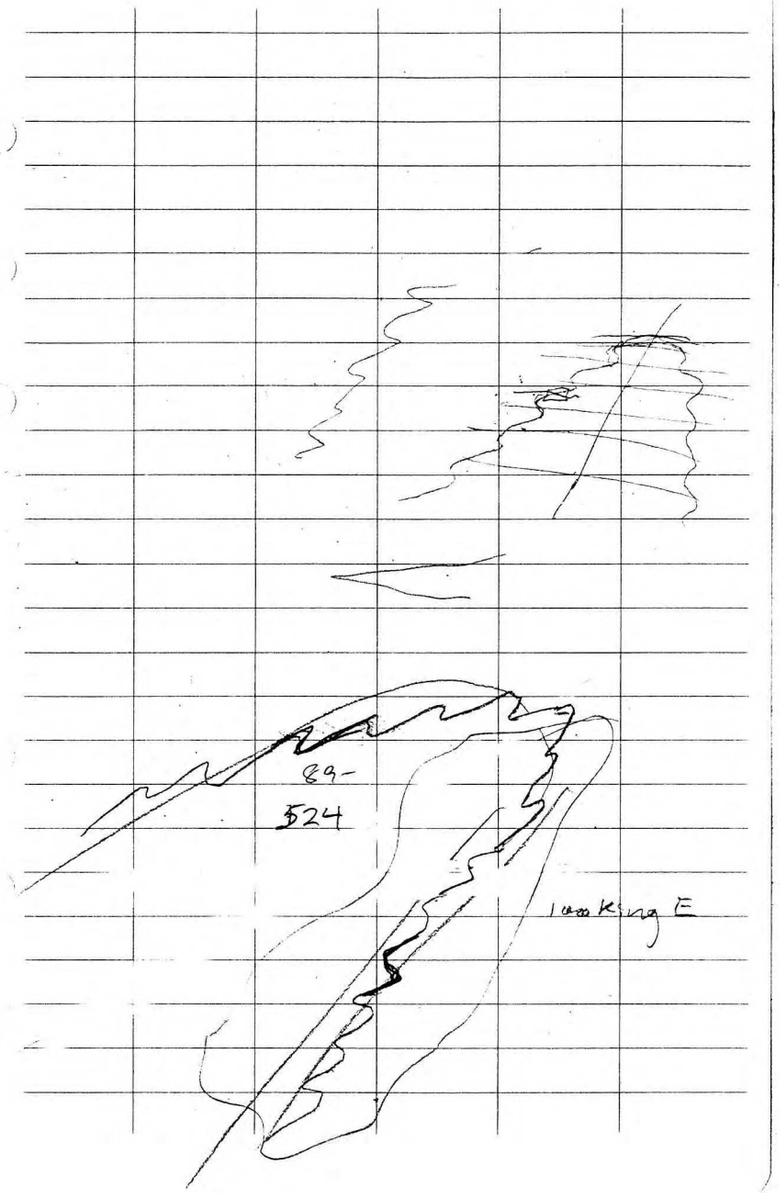
Pale grn, lesser cream lam'd chl pllt, strongly calc., rare marble lenses

Strong S_2 & F_2; PS_2 to CZ_2

PS_2 105/19 S (2)

S_0 084/46 N (2)

F_2 folds an S_1 Z symm. looking NW



89-525 o/c 3 SBT

S.B.S.

F_3+ axis 3→ 301 (1)

S_0 & S_2 loc. ll here; also S_1 steep & S_2 flat cren.

89-526 o/c 3 SBT

S_1 109/80 NE (2), 127/81 NE (2)

$S_2 \cong S_0$ 114/14 NE (2)

L_3+ 10° → 280 cren. S_2 * S_1 folded S_2 (F_3+)

L_2 (cren. on S_2) 5° → 305° (2)

89-527 o/c 3

SBT

Tightly appressed near isochnal S_2 fols in S_0

S_2 166/9 SW

89-528 o/c 1 SBC

Silvery-gray, med grey calcareous mud pllt

89-529 o/c 2 5B7

Strongly fol'd chl. pllt, w/ part containing pale cream calc bands (5DF?) & part homogeneous chl pllt w/ drk spots on S2 (5C → 5F)

89-530 o/c 2

Greasy feeling grn-gry non calc. musc chl pllt; prob 5B86

89-531 o/c 2 → o/c 1 5B02

Silvery greasy to dark gry carb. chl-musc pllt; calc. on certain bands.

89-532 o/c 1 → 2 5C

Around DDH 79-X-15, disturbed o/c metabas., drk gry, reddish spots.

5B2

89-533 o/c 2 trench bearing 100°

Drk gry carbonaceous pllt, variably calc. either 5B2 or 5G

5B2

89-534 o/c 2

S2 104/10 S

89-535 o/c 1

Drk gry non calc grptc pllt. 5B2

89-536 o/c 3 5B7

5C with marginal zone tan & grn pllt & drk gry grptc pllt.

S2 ≃ S0 102/21 S in 5DF

89-537 o/c 3

Finely lami'd drk + pale grn chl pllt (5B7) w/ CS2 to PS2; tight to isoclinal F2 in S0, S symm. Photo looking NW

F2 axis 19 → 100 (3)

" " 13 → 107

89-538 o/c 1

Silvery grey weathg; drk gry carb. pllt, non calc. except loc. 5B2

89-539 o/c 3 5B0

Isoclinally folded calc. musc. p

Large F2 isoclines.; lami'd calc & pelitic

CS2 w/ PS2 horizons

F2 axis 1° → 286 (3)

2° → 273 (3)

S2 119/13 NE

Photo F2 isocline, looking W

Looking NW

S symm minor folds.

L3 fine cream. on S2

6 → 303° (2)

89-540 A o/c 3 5B7

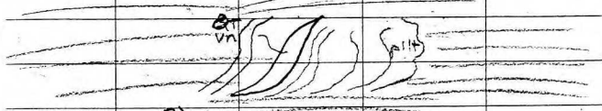
Fol'd drk grn metabas interfing w/ drk grn & tan chl. pllt (5DF); weak S2

S0 116/60 S (2) in 5DF.

89-545 o/c 2-3 5B02

Silver grey weathg calc. musc. pllt slightly carbonaceous; PS2

Looking W



F2 (?) ax. 6° → 110° (3) Folded pllt around Qtz bounding
1° → 302° (2)

PS2 075/6 NW (2)

89-546 o/c 3

Drk grn chl pllt (5E) manthed by highly folded laminated chl pllt (5B7) & grading into grey metapelite (5B2-3)

89-543 o/c 3 5B7

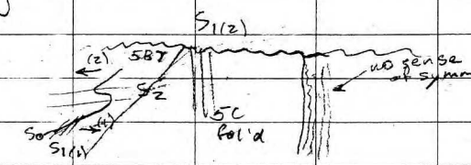
laminated chl pllt w/ drk chl laminae & pale grn laminae; 5B7; marginal to 5C

S1 115/77N (2)
L2 3° → 304 (2) cren. lin on sub S1 surf.
S0 105/84 S (2)
(2) S1/S2 int lin (L2) = 8° → 305°
(2) S0/S1 int lin (L1) = 13° → 295°

89-544 o/c 3

Well exposed cont. between 5E/C homog. chl. pllt after metabas. coring 5B7 finely lam'd chl. pllt after pelite

Looking NW:



S1(1) 134/49 SW (2) in 5B7
S0 109/16 SW (2)
D1 clvg/bdg verg. to NE
S1(2) 109/72 NE (3) in 5C°
S0/S2 int. lin. 2° → 297° (3)
S2 134/10 SW (3) in 5B7
D2 fold verg. to SW

June 27

89-540 B o/c 2

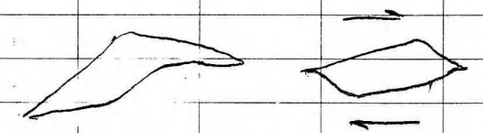
Finely fold, drk grn & apple grn chl-cpi. pltic metabasit. 5B (5C)

89-541 o/c 1 5B0=

Silver grey to drk grey slightly carbs, weakly calc. musc.-chl pllt.

89-542 o/c 3

Silvery grey weath. slightly carbs. musc. pllt.; w/ asymm Qtz vn boudins.



S2 025/15 NW (2)
L3+ 6° → 287 (3) fine cren. S2

89-547

S_0 131 / 76 SW (L) (variable)

S_1 120 / 85 NE - (refracts) (3)

S_0/S_1 int'n - 3 → 315 (3)

S_2 155 / 25 SW (2)
/ 38 SW

S_2/S_0 int'n 10 → 305 (L)

SW S_0 NE

F_1 verg. NE

S_1

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S_1 S_0

SW S_1 NE

S_0 verges NE

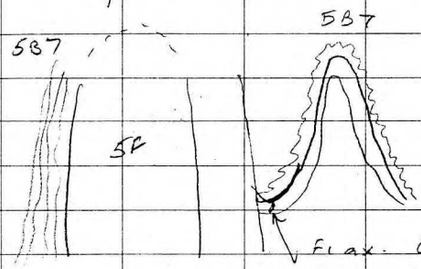
89-549 o/c 2 SB/C

PSz 105/7 SW (1)

Highly strained fold, calc, mud or pale grn chl pllt, rusty spots on Sz, relict pleg in places 50 cone-ish but intense flattening; metabas protolith I think. Calc. metaveins ∥ Sz, chl spots on Sz

547 (cont)

21 Tight - F1 folds looking NW



F1 ax. 0° → 313° (2)

F2 ax 3° → 295° (2)

22 SF - SB7 cont.

89-548 o/c 2 SBO

Silver grey calc. musc. pllt

PSz almost flat w/ isoclinal F2 folds,

F2 axis 3° → 302° (3)

Photo 25 - looking W at F2 isoclinally folded Qtz vn.

PSz 170/15 W

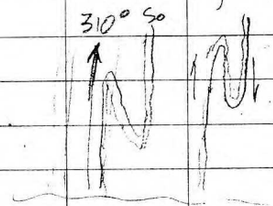
89-549

Med-pale grn chl pllt, intense Sz weak cal. layering; poss. BAN/SD

89-547 o/c 3

Drk grn massv. chl pllt separated by laminated grn chl pllt w/ pale bands; v. well exposed contacts. Pale bands to mSCm. chl pllt (metabas?) only ~ 1m thick slvg cont.

So banding on Sz trends 132°; looking down



F1 fold looking toward 310°; verging NE:

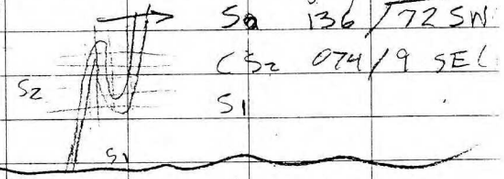


Photo 18 - dext. folds plan view

" 19 - NE verging folds; looking NW

" 20 - SB7/SD contact

89-554 o/c 3 5B28C

Silvery grey weath. dk grey carb. musc. pllt in fault? cont. w/ brn weath dk gry non calc. pllt w/ pervasive fibrous mineral veining

Int 036/30 SE (2)
S_2 flat
Cren. lin. trending 165° (2)

Sample

89-555 o/c 3 5B05

PS_2 foliated med. gry calc. musc pllt (5B05) w/ folded S_2 silty, lam's sub ll to S_2 (typ.) 1 5cm!
F_3+ ax. 3° → 219° (2)
L_3+ fine cren. lin on S_2
3° → 285° (2)

89-556 o/c 2 5B0

Silvery grey weath. calc. musc. pllt w/ intense S_2 & isoel. F_2 folds & vns. Abund silty calc. lam's
Qtz vns { F_2 axis 5° → 145° (1)
" 14° → 323° (1)

June 28 Sunny

89-551 o/c 2 5B7

Slumped stream o/c of laminid grn & cream chl pllt.

89-552 o/c 3 5B25

Dk gry non calc. carb pllt (5B25), faint pale cream lam's; abund Qtz vn bearing.
PS_2 135/13 NE (2)
L_3+ 10° → 096 (2) faint broad cren. on S_2
(L4)
At el. 990 downstream, becomes gry calc. musc. pllt (5B0)

89-553 o/c 3 5C

Mass. weakly fol'd dk grn metabasite
Strike ~ 023°

89-550

Finely cren'd laminid chl. pllt; steep S_0, flat S_2; S_1(?)
F_2 ax. 2° → 124° (3)
Mass. metabas. up hill

June 29 Sunny

89-562 o/c 1 5C

Blue grn to med grn chl pllt after metabas. Relict ign. text., orange spots after Px.?

89-563 o/c 1 5B0

Med. grey strongly fol'd musc-chl pllt, weakly calc., non lam'd

89-564 o/c 1 (TS) 5C

Blue grn to med. grn chl pllt. w/ white spots/relict plags. → pllitic 5C

89-565 o/c 2 5B8

Olive grn weath. deep grn chl pllt, no white spots, prob. pelitic (5B8?)

89-566 o/c 1 5B8

Med grn-blue grn grey v. weakly calc. chl-musc pllt (5B7)

89-560 o/c 3 (TS) 5C4

Hackly weath. mottled brnish-grn alt'd fol'd metabasite w/ min. lineation || to trend of body (~110°). Flanked by grnish chl pllt. o/c's on road also (folded?)

Sample

89-561 o/c 2 5B0

Pale grn grey chl-musc pllt, v. calc., w/ abund cal. pods & vns. Too disturbed for measurements. Protolith unclear; but prob. pelitic

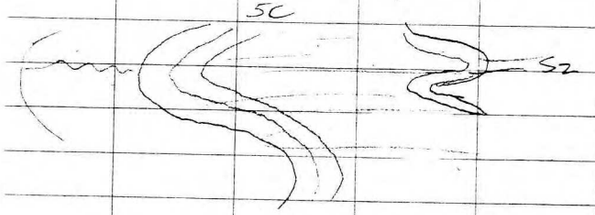
89-557 o/c 3 (TS)

Interfolded foliated & lineated strongly looking metabas. & grn lam'd chl. pllt. w/ grey pllt at edge of o/c. (5B/5C & 5B7) w/ 5B0. Well developed lithon struct.

CS_2 172/12 W

F_2 Ax 3° → 124 12)

5C Photo



Sample: 50 w/ CS_2 Flat pale green homog.

89-558 o/c 2 5B7

Pale green to green-grey non calc chl pllt w/ calc. lam's; prob. 537

89-559 o/c 2 (TS) 5B7

Fine y' lam'd pale grn & white chl pllt; white calc lam's

Summit

89-575 o/c 3

Finely fol'd & cren'd dolomitic med-pale grn pllt ; SD ish, poss. after metabas.

89-571 o/c 2 5c

Fol'd chl pllt after metabas. Cralict texture, chl. spots flanked by lam'd chl pllt, v. calc.

89-572 o/c 2 5B02

Drk gry shiny carb. finely lam'd calc. musc pllt. $S_0 \equiv S_2$

89-573 o/c 3 5F/c

Drk grn fol'd chl pllt w/ drk chl spots after metabas. 5c

P S_2 164/14 NE (2)

To west go into pale green finely lam'd non calc. chl pllt ; poss. pelitic

F Ax ~~F_2~~ 14 → 114° (2)

89-574 o/c 3 5F/c

Drk grn finely lithon'd chl pllt w/ chl. spots ; prob intensely fol'd 5c

P S_2 165/21 NE (2)

FAx (~~F_2~~) 14° → 130 (2)

89-567 o/c 3 5c

Mass. m.g. metabas ; good diabasic texture

89-568 o/c 2 5c

Well-fol'd med grn m.g. metabas ; minor diss P_y.

89-569A o/c 3 5

Mass. m.g. metabas. in cont w/ lam'd grn chl pllt. (5c, 5B7)

P S_2 077/19 SE (3)

Joint 061/75 NW (3) 10cm spacing

89-569B o/c 3 5B7

Grn chl pllt, lam'd w/ $S_1 \equiv S_2$

P S_2 083/33 S (3)

89-570 o/c 2 5c

Moderately fol'd drk grn metabas w/ stretched chl pseudomorphs after P_x

Min lin. trends 120° ; plunge unk.

JULY 1 Sunny, late aft. downpour

89-585 o/c 2 5B02

Gry rusty weath carb, calc. musc pllt w/ strong post F_2 crenn lin. Poss. Vangoerdt? Also S_1/S_2 int. lin

89-586 o/c 1 5B62

Road float dark gry non-calc pllt

89-587 o/c 3 5B5

Dk gry grn & pale grn-beige lam'd (quartzofeldspathic silty lam's). Essentially same as 89-668.

L_3+ (on S_2) 11° → 130 (2)

Sample.

S_2 143/13 NE (2).

Fine lam's ll to S_2

89-588 o/c 3 5B558

Well lam'd dk gry & beige musc pllt w/ beige lam's calcareous; somewhat graph. Fine lithon struct

F_2 18 → 117° (2)

Sample S_2 031/10 SE (2)

005/11 E (2)

89-580 o/c 3 5B7

Lam'd grn chl pllt flanking metabas;

$S_1 \cong S_2$

S_2 116/59 SW

89-581 o/c 3 5B7+5D

Med. grn & creamy lam'd chl pllt, w/ intercal dker grn chl pllt (after metabas)

89-582 o/c 3 (=89-524) 5B7

Finely lam'd dk to pale grn & cream chl pllt (5B7) marginal to mass. metabas. w/ fol'd margins. S_1 steeply dipping w/ poss. F_1 & open F_2 folds.

So 081/75 N (2) but variable

89-583 o/c 3 5C

Strongly fol'd dk & med. grn chl pllt & mass. metabasite Chl pllt poss. after metabasite

S_2 118/18 NE (2)

June 30 Sunny

89-576 o/c 3 5C

Variably fol'd med. grn m.g. metabas. partly shrd w/ brn weath FeChl(?) alt^n Poss 5B7 along base of o/c on road.

89-577 o/c 3 5B7

Drk grn & creamy lam'd chl pllt; v. weak S_2 fabric

Photo + comp. banding in 5B7

So (1cm comp. layering) 079/79 SE

89-578 o/c 3 5C

F.-m.g. med. grn weakly fol'd metabas w/ ~ 10% o/c pale grn & creamy lam'd chl pllt.

So 103/36 S (2) in 5B7; 4cm lam

89-579 o/c 3 5B7

Med. gry to grn gry strongly calc chl-musc pllt, prob marginal to metabas. $S_1 \cong S_2$, w/ S- weakly folded.

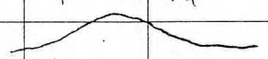
S_2 105/8 S (2)

F_3+ ax. 6° → 226 (2)

(F5?)

89-596 o/c 3

Axis F_5(?) 8° → 063° (Z) folds S_2 +
L_3 (+) cren. lin. ; in biot pltt.
1 10 cm



89-597 o/c 2 1515 3D

Interbedd w/ biot pltt are pale grey-grn qtz-fs/calc sil. (?), lam'd w/ fine dark grey-purp. biotitic folia ; latter are strongly crenul.

89-598 o/c 3 3D;

Strongly fol'd dk grey-purp grey 3C pltt w/ buff weath qtz-fs/calc sil. layers ; S_2 folds on some surf's ; comp banding

P S_2 171/10 E (Z) generally // to S_2 but loc. at steep angle
158/16 NE
L_3+ (Fine crenul. on S_2)
4° → 139°.

Loc. dk grn hb on S_2 ; f.g. hornfelsic texture ; v. hard.

89-593 o/c 2 3CD

Med-dk grey lam'd w/ buff lenticular Qtz-fs/calcsil lam's ; chl-musc. pltt ; good lineated shiny pltic surf ; graph?

S_2 168/5 NE (1)

coarse Crenul lin on sub S_2 surf. 5° → 132 (Z)

- intercalated w/ homogeneous dk grn schistose chloritic fol'd metabas (?) w/ no shiny pltic, lineated surf. S_2 v. flat throughout

89-594 o/c 3 3D

P S_2 065/4 SE (Z)
fine crenul (S2) L_3+ 2° → 141 (Z)

Well fol'd & lin'd non-calc. dk grey-purplish musc-biot pltt (calcsil/qtz-fs) lam's. Loc. rusty weath ; graph.

Near end of ridge, thin lam'd grn & white chl pltt ; meta-diab.

89-595 o/c 3 1560 3D

Well fol'd purp-grey biot pltt, non calc.

P S_2 088/9 N (Z) 26
Fine crenul. line on S_2 10° → 326 (Z)

89-588 (cont'd)

N side gully

S_2 014/18 NW (Z)

89-589 o/c 1 3C5

Scattered float finely lam'd pale grn non calc meta tuff? calc sil?

Sample.

89-590 o/c 2 3C5

Drk grn finely lam'd chl pltt, prob after metabas, non mag., small feldspar.

S_2 168/18 NE (Z)

89-591 o/c 3 elev. 1460 3C5

Well fol'd schistose dk grn & white metabasite ; prob. meta-diabase.

89-592 o/c 3 3C5

Well-fol'd dk grn & white metabasite w/ white comp. layers // to fol'n.

S_2 078/12 SE (Z)

JULY 3 SUNNY ALL DAY

~~602~~

89-566 o/c 1

Drk gry strongly lin'd noncalc. graph. musc pllt ; 2 lin's ; poss. 3Gz.

89-602 o/c 2 5C

Str. foli'd v. calc. metabas.

89-603 o/c 3 3C?

V.f.g. drk gry - blue gry weakly foli'd metabas. w/ fine wrinkle lin's & v-2cm spaced fract. clvg.

L(3) fine cren on S_2? trending 133°

S5 fract clvg. trending 060°.

89-604 o/c 3 3G

Med gry well foli'd f lin'd musc-qt pllt w/ pale Qt-rich layers & micaceous folia Non-calc ; rusty weath'g. S_2

L3 fine wrinkle lin" 12° → 158° (3)

PS_2 089/16 S (3)

130/9 SW (1) Aug 1

FIELD

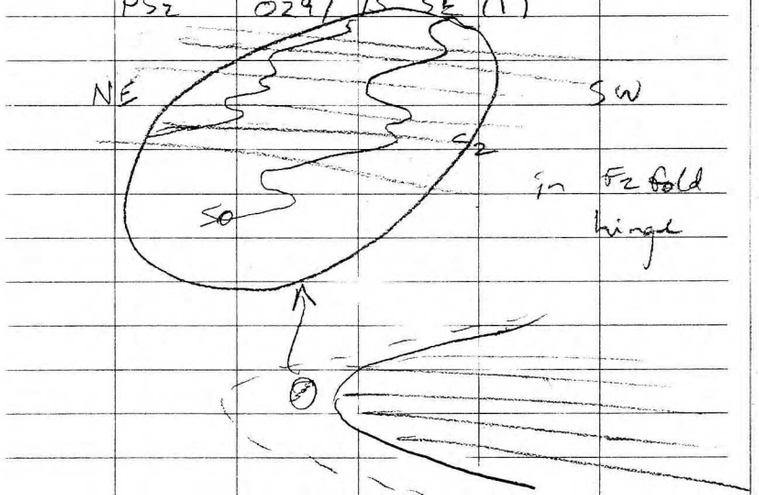
JULY 24

89-602 o/c 2

F.g. drk blue-gry foli'd metabas. Further along rd is s/c of rusty weath'g drk blue gry rock, poss a f.g. int ; very calc in places ; & rusty weath'g brn pllt, intensely fract'd. Lithologies obscure

89-601 o/c 3

PS_2 029/45 SE (1)



PS_2 010/22 SE (1)

L3 1 → 138 (1)

89-599 o/c 3 TS 3G

Lam'd noncalc musc-bi pllt ; ~~lse~~ w/ drk grn weath. chl. lam's sub // to S_2 ; Qtz-fs layers weather out in rel. ;

PS_2 144/14 NE (2)

also contains 1 cm white orthoqtzt layers interlam'd w/ drk grn pelitic layers.

89-600 o/c 3 3G

S.O.S. as 599 but intense Qt in development. Qt vns isocl. folded boud'g. ; w/ abund FeOx ; white mica alt'n halos.

89-601 o/c 3 3D/G

S.O.S. impure gry bio pllt ; minor calc s/l ; isocl folds ; also chl pllt + orthoqtzt

F(2?) axis 25° → 270° (2) 1V. vns

Photo

isoclinal folded Qt vns, looking ENE



JULY 26 DAY WITH KEN McCLAY

89-645 o/c 3
Poss. stretching lin 11 to L3
20 → 317° (1)

84-316 o/c 3
PS_2 100/22 NE (2)
Lin stretching on S_2 trends ~140°
bi-rich & Qtz rich ribbons

89-609
Calc sil; mottled grn & pink & reflect marble; SW verging folds in marble bands
SW NE
Also, lam'd trachyand (Sample)

89-610
Pegmatite dykes garn-tourm. bearing, intensely ductile sheared 11 to S_2 w/ Qtz & Fs rich diff. layers & Fs augens; differentiated fabrics in schist w/ bi & Qtz-Fs rich layers, good mineral str. lineations

698 (cont)
Can see 3 subtl lin's on S_2
(1) crem. - coarser than in plt's
(2) comp. banding / S_2 intersection - light & dark color bands
(3) amphibole (?) elongation lin on S_2 → trends ~149°
Also 070° trending weak fract clvg.

89-609 o/c 3 3C (TS) 3C+3D
White & grnish lam'd to fairly massive diop + trem + ?% calsil w/ some residual marble + retrograde dark grn amph-filled tension gashes.
Sample

89-610 o/c 3 3D
Dk grey & whitish banded biot graphischist and pale grn-grey f.g. calcsilicate w/ gradational transition between interc. altered rock types. Also fold'n 11 granitic sills
5-10 cm thick in places
Photo

89-605 o/c 3 3G
Finely lam'd bi-musc plt w/ cm-thick Qtz-rich, silty lam's 11 to fol'n, non calc, rusty weath.

3D
89-606 o/c 3 1460m
Mass. loc. rusty weath v.f.g. blue-grey v. pyritic, chalky, calcing non-layered v. wkly fol'd calcsilicate
Sample

89-607 o/c 3 (carb?) 1H 80m LCD
Well fol'd dk grey f. cream comp. banded bi+musc - and (?) - staur (?) schist.
Signif. coarser grained than below 606 ~15% grn calcsil bands

89-608 o/c 3 LCD
S.O.S.
P S_2 074/19 S but varies
L3(?) crem. on S_2 9 → 139° (2)

R. D. PENHALL LTD., MADE IN VANCOUVER, CANADA DUNSBAK WATERPROOF
FIELD

89-613 o/c 3 3D

SOS

S_2 149/24 NE

89-614 o/c 3 1UF

170° trending yellow brn weath. buff Qt-F_s ϕ dyke cutting biot-musc gtz-garn(?) schist, as well as gran.

Sample

89-615 o/c 3 3D

Biot-musc ϕ calcsil sch. SOS

Layering ∥ PS_2 086/15S (2)

3D

89-616 o/c 3 Calcsil schist

PS_2 093/29/S (3) rusty weath.

cf. Aug 1

89-617 o/c 3 1CD

Musc-biot-chl pllt w/ thin Qtz-felsic lam's & microlithon strucr. V. narrow poss. metaham. sills alone here.

FIELD

R D PENHALL LTD., MADE IN VANCOUVER, CANADA DUKSBAK WATERPROOF

89-611 o/c 3

Ductile sheared gran. w/ strong C-S fabric & lineated C plane

C Fol - 093/33 S (3)

S Plane - 065/20 SE (1)

27→173 mineral elongation

Lineation on C (3)

Photo C-S fabric

Next o/c over, vague schist-gran. contact →

Photo schist-gran cont

89-612 o/c 3 3D

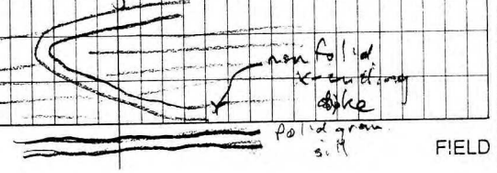
Well foli'd banded biot schist & calcsilic.; layers ∥ S_2. Sample

PS_2 122/30 SW (3)

Cut by foli'd granitic sills ∥ to S_2 & non foli'd gran. dykes folded but X-cutting S_2

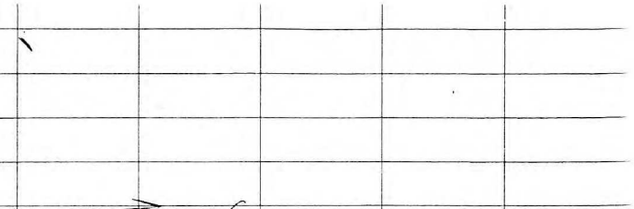
Photo foli'd gran. sill

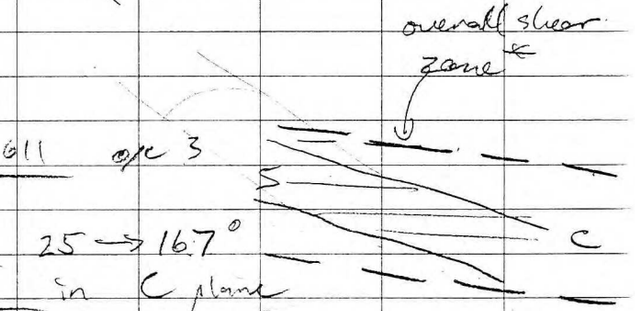
Photo



FIELD

R D PENHALL LTD., MADE IN VANCOUVER, CANADA DUKSBAK WATERPROOF





89-611 o/c 3

Min. Lin. 25→16.7° in C plane

* shallower than C; min. lin's not as well developed

89-612 o/c 3

S_0/S_2 ∥ in 6°→002 (2)

Very faint colour striping on S_2, brought into ∥ism w/ transport direction in zones of high strain

10AB Anvil batholith.

10E Hb Bi ∅ dykes

10F QFP dykes

89-624 o/c 3 3G/D

Well foli'd drk gry & cream carbonac. musc. chl/pllt & qtz-rich lams. locally. V. well bsiot foli'd.

89-625 o/c 3 3D

S.O.S.; also purp-gry & greenish calcsil

P S_2 125/28 NE (1); 116/24 NE (2)

89-626 o/c 2 1CD

Pale gry to brnsh gry musc pllt w/ qtz-rich lams; verges on schist

89-627 o/c 2 3G/D

Rusty weath'g pale-med gry musc-chl pllt w/ local bigger bi on S_2; S_2 not well developed here; some qtz rich silty lams; to east is mass., rusty weathg v. weakly foli'd grnish to drk gry rock, poss. calcsil., but not clear. Breaks on rusty fract's

FIELD

JULY 4 SUNNY

89-620 o/c 3

CS_2 072/19 SE 5B08

Nice tiphon struct.

chl., ms. phyll, grey-green, lam., calc.

89-621 o/c 3 5B82

Grnish, nicely foli'd med grn chl pllt, loc. slightly carbonaceous

89-622 o/c 3 5B

Drk gry finely foli'd & lami'd material w/ thin grnish qtzal lam's & well developed crinkle lin'n on S_2

89-623 o/c 3 3G

Lami'd grn gry Qtz rich chl-musc pllt; good L3 on CS_2 to PS_2; cren'd lithon struct. locally

L3 fine wrinkle cren. lin. on S_2 3→335°

PS_2 160/18 NE

F_A 15° → 130° in 1m amplitude (F3?) (2) fold of PS_2 w/ cren'd S_2

Photo (L4?) coarse cren lin on S_2 21 → 149° (2)

FIELD

89-618 o/c 3 3C

3C; massive fig. grn and m-g. whit & grn metalas w/ plag rich zones

89-619 o/c 3 3G

Thinly lam'd drk gry & pale gry graph bi pllt w/ qtz rich lam's

PS_2 07/20° NW (2)

Lineation on S_2 19 → 329 (2) (cren, L3)

FIELD

R. D. PENHALL LTD., MADE IN VANCOUVER, CANADA DUKSBAK WATERPROOF

JULY 5 CLOUDS

89-635B o/c 3 5B 53
lam'd, color banded grn & grey variably calc. & carb. chl-musc pllt. Also non calc. non lam'd chl pllt here.
Sample.
Cgz 153/18 NE (2) ; S1 variable but steeper

89-636B o/c 3 3G
Rusty weath. non calc musc-qtz pllt w/ abund Qtz vns; qtz rich lam's
PSz 129/27 SW (2) S1 not seen

89-637B o/c 3. 3G 29
PSz 085/9 S (2)
PSz 024/6 NW (2)
Non calc. dark gry musc-qtz-bi(?) pllt, slightly carb.
Sample
PSz 121/11 SW (3)

FIELD

89-632 o/c 3 (TS) ICD
Musc-biot-qtz-and-stour-gar schist
PS2 = 081/16 SE

89-633 o/c 3 ICD
Grnish to purplish gry rusty weath musc-biot schist somewhat pllte; Qtz-fs bands; poss. larg (2cm) andz on S2
Sample

89-634 o/c 3 ICD
Dk purplish gry biot-qtz-musc-and sch.

89-635A o/c 3 Rusty weath? ICD
Dk gry carb. biot-musc and. sch.

89-636A o/c 3
S.O.S.
PS2 135/5 NE (2)

89-637A o/c 3
Dk grn-gry v fg. massive metabas. w/ abund Qtz + cal-chl veinlets.

FIELD

89-628 o/c 3 3Gq
L3 (fine crem. on S2) 6° → 140° (3)
PS2 174/16 E (2)
F2 ax. 14° → 087 (1)
Dk gry carb. musc. pllt w/ chl rich S1 bands showing F2 crem.; lost S1 mainly ∥ to S2.

89-629 o/c 3 C? SD
Rusty weath musc. dk blue-gry fine grained bas(?); calcsil?

89-630 o/c 3 3D
Dk gry well fol'd musc chl pllt, non calc.; Qtz vns ∥ to fol'n; small scale lithon struct lbcy; calcsil lam's
PSz 010/13 E (2)

89-631 o/c 3 3D
Musc-bi pllt & intercal. lam'd calcsil & pllte
PS2 059/13 SE (2)

FIELD

R D PENHALL LTD. MADE IN VANCOUVER CANADA DUKSBAK WATERPROOF

89-646 o/c 2 36
Rusty weathg purple-grey bi-musc pllt & interbedded thinly lam'd pale grey Qtz-fs pllt. pllt getting more schistose here.

89-647 o/c 3 36
Rusty/Silvery weathg blue-grey musc-chl pllt, non calc

89-648 o/c 2 36
Rusty weathg blue-grey chl-musc. pllt → schist; no and(-ite)

89-649 o/c 2
PS2 019/27 SE (1)
Dk grey rusty weath non calc, musc chl pllt; prob. 3G

89-650 o/c 3
Undeformed strongly clay alt'd QFP; buff f.g. matrix

FIELD

89-642 o/c 3 36
Gold to rusty weath. grn grey to brn-grey non calc. musc-chl pllt.
PS2 061/19 NW (2)

89-643 o/c 3 36
F2 folded Qt vn to 0.6m thick in SOS

89-644 o/c 3 36
Grnish gold weathg, pale grey to grn grey musc-chl-qtz pllt, brilliant shiny S2
PS2 030/15 NW (2)
016/28 W (2)
L3; discont. fine crenn. on S2
016 → 300° (2)
On loose pieces can see L3 deformed by coarse crenn. (L4) trending ~ 010.

89-645 o/c 3 360
Rusty weathg, blue grey musc chl pllt, non calc
PS2 034/26 NW (2) L3 20 → 313° (2)

FIELD

89-638 o/c 3 36
Rusty weath non calc dk grey musc-qtz-bi pllt, same as 89-637.
PS2 136/17 NE (2)
Qtz vns ll PS2

89-639 o/c 3 369
Well foliated dk grey non calc. carb musc-bi-qtz pllt
PS2 148/17 SW (3)

89-640 o/c 2 368
Grn-grey musc-chl pllt, non calc; & dk grey chl-bi pllt.

89-641 o/c 2 368
PS2 011/27 W (2)
Grn grey to dk grey musc-chl-bi pllt.
L3 fine crenn. on S2.
17 → 124° (2)

FIEL

R. D. PENHALL LTD. MADE IN VANCOUVER, CANADA DURABAK WATERPROOF

TOUR DAY W/LP | JULY 7 | SUNNY, ~~STORMY~~

89-657 o/c 3 5C

Drk grn foli'd metabas.

S_1 (?) 119/72 NE (2)

S_2 not seen

89-658 o/c 3 by 80-10 5B7

5B7 & silver-grey 5B0 flanking thin 5c sill

S_2 (?) 135/26 NE (2)

89-659 o/c 3 bearing 159° to 149B, " 012° to 149G

Intensely S_1 & S_2 foli'd reddish weath metabas; 2 thin sills here w/ 5B7 along margins

S_1 126/75 NE (2)

PS_2 ~~054/14~~ SE (1)

S_1/S_2 int^ lin 14° → 114° (2)

S_1 108/84 N (2)

89-660 o/c 3

5B7 marginal to 5c

S_1 115/76 NE (2)

S_2 136/26 SW (2)

L_2 (crenn. on S_1) 10° → 319° (3)

S_5 (?) fract clvg. 061/76 NW (2)

TS

Samples; Photo of F_1 fold.

89-654 o/c 3 5E, 5

Lam'd rusty weath'g interbdd cream ls & grn gry v.fg, v. calc. pelitic sed. layers widely spaced weathering out, 1 cm or less thick

S_0 131/16 SW (2)

F_1 fold axes 16 → 108° (1)

S_1 107/80 SW (2)

D_1 verg. — to NE.

S_2 poorly developed

89-655 o/c 3 5CP

Mass. drk blue-gry px,ite w/ asbestiform serp along fract; flanked by interval 50+5B7.

Sample.

Above roadcut, int. is mainly ordinary m.-c.g. metabas, w/ less minor Px,ite on N flank

89-656 o/c 3 5B7

Pale grn & buff thinly lam'd chl pltt

S_1 112/65 SW (2)

CS_2 v. flat

L_2 (crenn. on S_1) 10° → 114° (2)

JULY 6 | SUNNY, HOT

89-651 o/c 3 5C + 5B7

Mass. m.g drk grn calc. metabas w/ well lam'd pale to med. grn chl pltt; qz vns ll foln, scattered ~~cubes~~.

89-652 o/c 3 5B7

S_0 123/34 SW (2)

CS_2 116/16 N (2)

L_2 (F_2 crenn). 1° → 112° 12

well lam'd chl pltt; minor F_2 folds verge SW

SW ← NE

S_1 (?) 108/69 S (2)

F_1 clvg/bdg verge S_0 → NE

89-653 o/c 3 5C+5B

Olive grn to grn gry med g'd metabas w/ ~0.8m wide margin of 5B7 & grad transition over 0.3m to 5B0.

Contact between 5C & 5B7 ≈ PS_2 124/33 NE (2)

SW S_1 NE

NE L_2 crenne

S_2

JULY 8 PARTLY CLOUDY

89-661 o/c 3 5B7

5B7 flanking 5c

S_0 104/57 SW (2)

S_1 094/83 NE (2)

L_1 (S_1/S_0 int. lin) 10° → 121 (1)

D_1 verg to NE

89-662 5B7

C→P S_2 105/24 SW (2)

S_0 steep.

S_1 108/70 NE (1)

F_2 fold ax. 5° → 273° (2); 9° → 097° (2)

S_0/S_2 int. lin 7° → 264 (2)

Photo: shows F_1 & F_2 folds

Pale grn gry lam'd chl-musc pllt; prob. transitional to 5B7; well developed lithon struct & F_1 & F_2 folds.

89-663 o/c 3 5D+5B7

Grn & gry pllt w/ intercal 5D (core) flanking metabas. sill.

S_2 093/21 S (2)

S_1 102/50 S (2)

F_2 fold ax. 14° → 124° (2)

663 (cont'd)

Lithon struct. S_0: S_2 on NE

SW NE

side minor fold

89-664 o/c 3

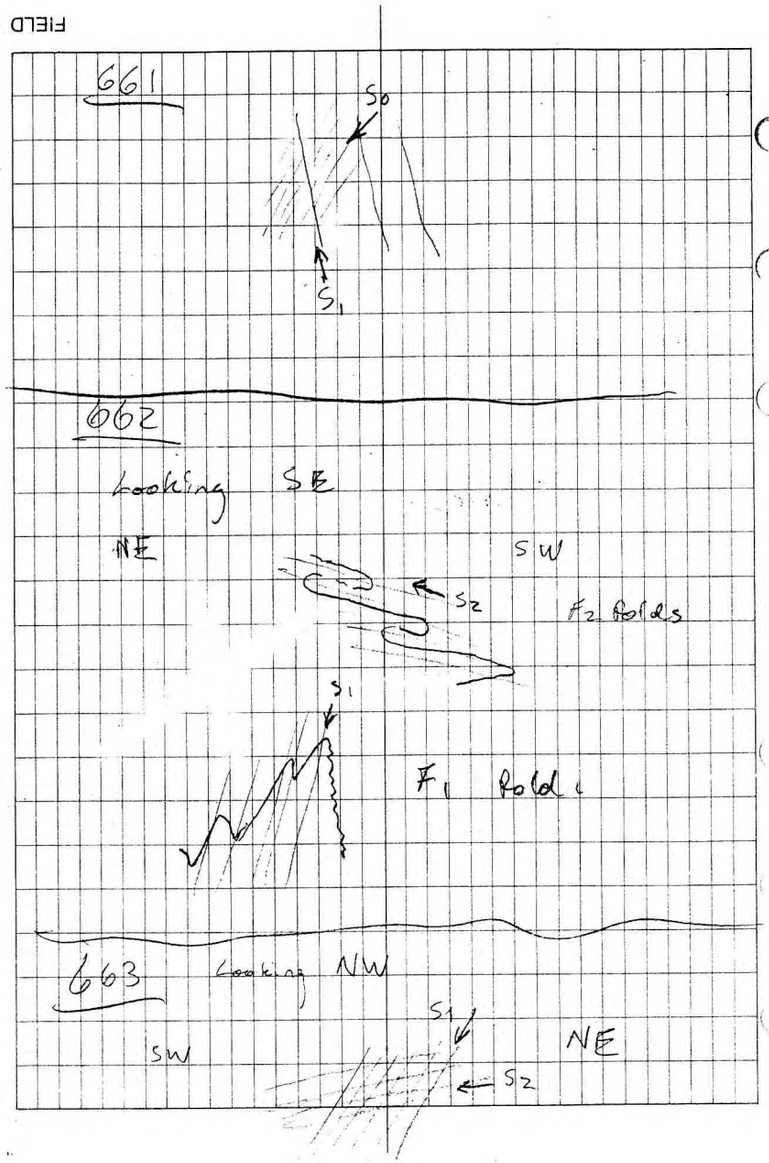
Strongly S_1 fol'd 5c w/ intercal 5B7; contains white bandings of qtz-fs material, poss. a metic segregation, elongate ∥ to S_1. Also, metic? P-blast showing sinistral shear (opp.)

89-665 o/c 3

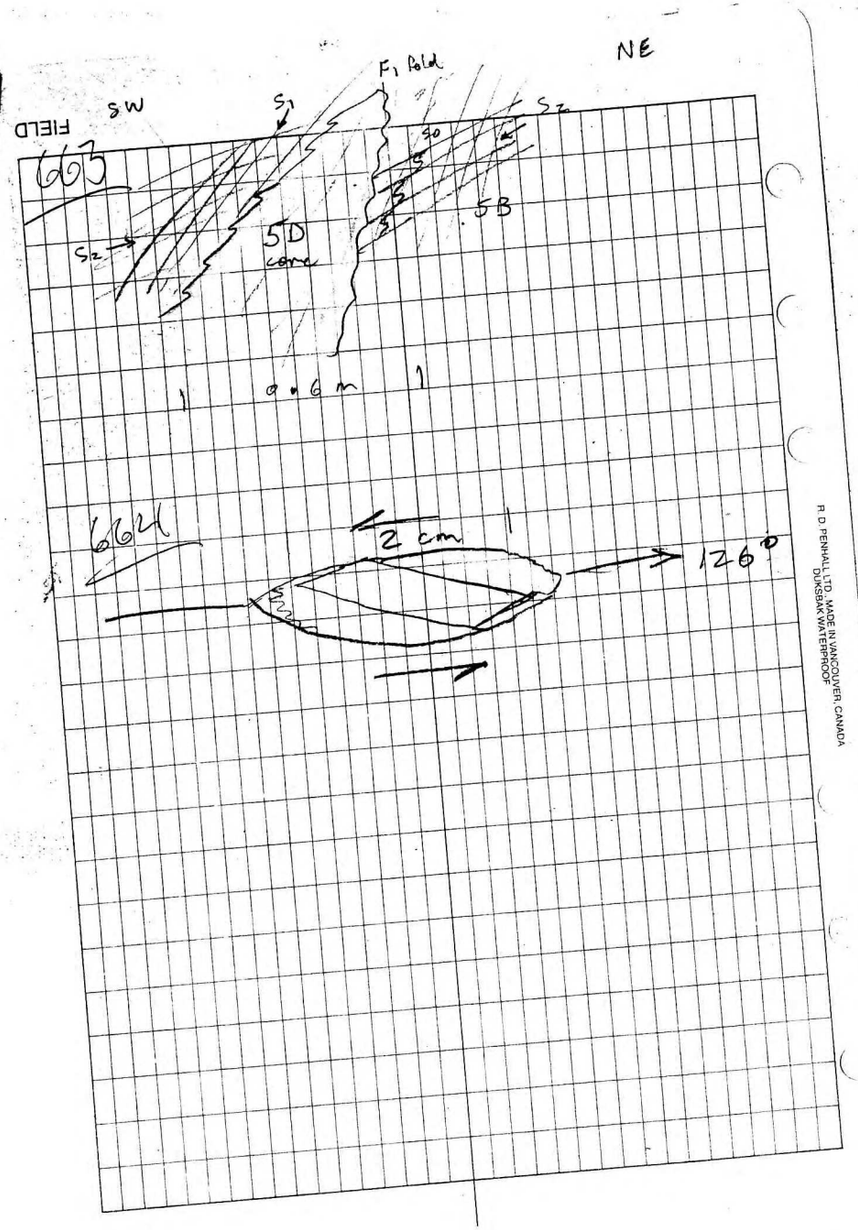
c.g. metabas. w/ leucocratic segregations trending ~130/90

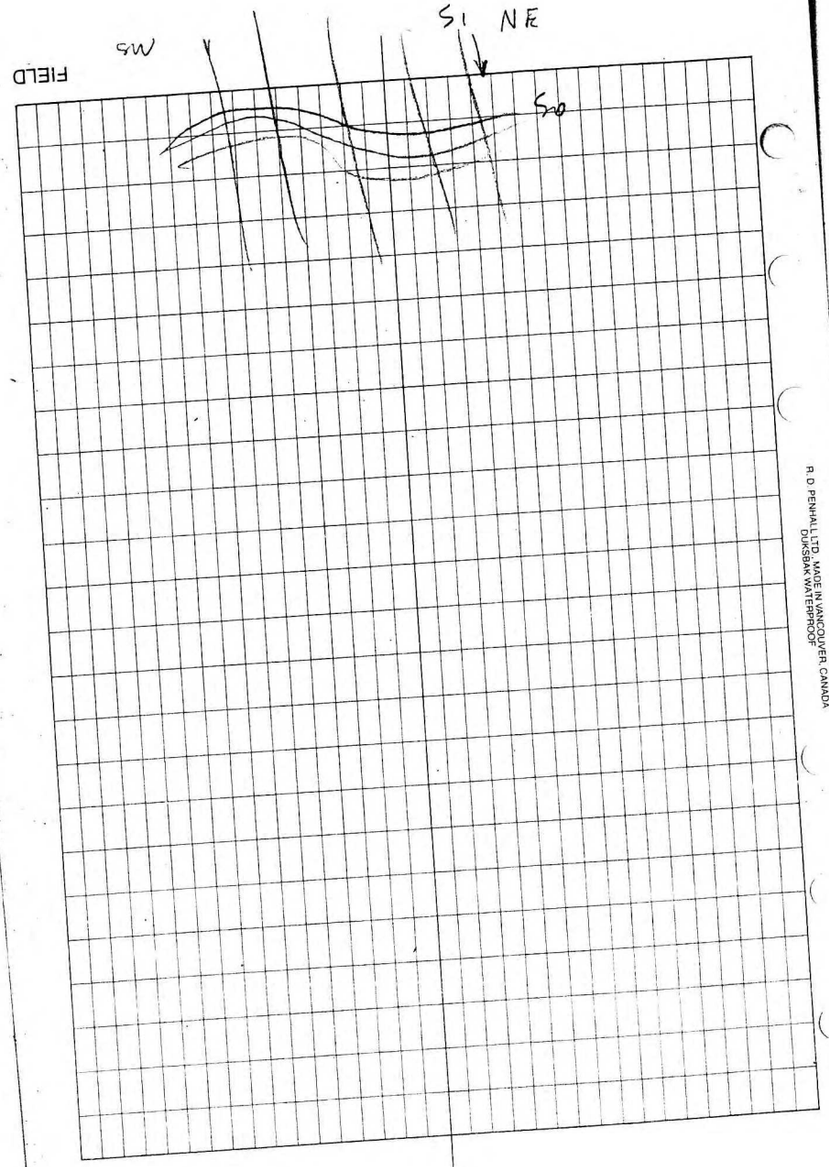
Photo

FIELD



FIELD TYPHAULT LTD. MADE IN VANCOUVER, CANADA
DUPLICATING EMPRESS


FIELD
SW
NE
S_1
F_1 fold
S_2
S_0
5B
5D
core
S_2
1
0.6 m
1
6624
2 cm
126°
S_2


FIELD
SW
S_1
NE
S_0

89-669 o/c 3 900m 3D (5B)

PS_2 027/9 NW (2)

S.O.S. drk gry to gmy-gry musc-bi-chl-qt pllt, lesser grn-gry qtz-calcsil. bands.

89-670 o/c 3 910m 5B62

PS_2 175/10 E (1)

L3 fine crinkle lin. on S_2 16° → 106° (2)

L4 coarse cren. on S_2 13° → 074° (2)

Drk silvery gry non calc. musc-chl pllt; v. little calcsil or Qt-carb interlam's; well developed lin's

S_0 prob ≅ S_1 ≅ S_2

89-671 o/c 3 935m 5B0

PS_2 103/24 N (2)

Silvery gry weath well fol'd musc-chl pllt w/ both calc. & noncalc bands - looks like normal 5B0

JULY 10 SUNNY, Hot HAZY

89-667 o/c 1 5B68

Roadside subcrop of grn-gry non-calc. chl-musc pllt w/ < 1 cm thick Qtz rich lam's separated by micaceous folia. Also subcrop med-drk grn calc. chl pllt, after metabas.

89-668 o/c 3 (TS) 835m 3D

Thinly lam'd well fol'd drk bl-grn-gry non calc. musc-chl-qt. pllt & drk gry & yellow grn interlam'd pllt & calc. sls(?) to calc sil./Qt-epid-cal(?); cf. Sample 89-587

PS_2 132/20 NE (2) (≅ S_1, S_0)

F_3(?) axis 12° → 029 (2)

(FS?) open fold in S_2

L3 (?) Fine cren. lin. on S_2 15° → 113° (2)

L5 (?) int. lin. of S_2 & S_3 - fret clvg. 6° → 035°

PS_2 163/9 NE (2) (850m)

PS_2 093/6 N (2) (870m)

89-666 o/c 3 5B7

S_1 104/75 NE (2) 121/57 NE

S_0 flat to variable

S_2 161/14 NE (1)

L_2 (F_2 axes on S_1) 4° → 294° (3)

L_1 (S_0/S_1 int. lin.) 10° → 312°

89-678 o/c 3

Drk gry graph. chl-qt-musc pllt w/ extremely calc. drk gry "beds". Rest is calc. also. 5B/23

(Sample).

PS2 164/21 NE (2)

loc. has pale brn weath. calc. lam's ⊥ Sz

(Sample)

89-679 o/c 3 F-6-4(E½S) 345

PS2 165°/10 NE (2)

Drk gry, calc. chl-musc-graph pllt, loc. rusty weath. 5B20?; mixture of calc. & noncalc graph. bands, loc. w/ fine folian struct. Just downstream is less graph, more chl, pale blue-gry weath, grn gry lam'd chl-musc-cal pllt & thin marble bands. (< 1cm) So ≅ Sz

F4 Ax. (open fold) 10° → 005°(2)

L3 (fine even on Sz) 18° → 105°(2)

JULY 11 SUNNY, HOT

89-675 o/c 2 5B2

Drk gry-blk graphitic pllt, non calc., w/ qt vns. Leaves graph. powder on hand

Sample.

89-676 o/c 3 F6(E½) 5C

Mass. v. wkly fol'd pale-med grn diab-text. meta bas. S.O. S. on N. side crk, w/ some darker gry pxiteish diab & lam'd pale grn-gry chl pllt (5B7), calcareous.

89-677 o/c 2 5B286

Drk gry non calc. chl-musc-graph. pllt, loc. w/ qt-rich lam's; abm qt vns.

Sample

PS2 161/23 NE (2) Graph doesn't rub off on hands

89-672 o/c 3 920m 5C

Well fol'd calc. m.g. chl pllt after met-bas. 329

PS2 129/21 NE (3)

PS2 173/15 E (2) elev. 935m

PS2 125/22 NE (3) " "

Ss (fract clvg. 6-8 cm spacing) 058/86 NW (2)

89-673 o/c 1 880m 5C

Weathering ant along roadcut is med grn noncalc chl pllt, prob ofte. 5c; (5B or 5F) Also grn gry-drk gry chl-musc pllt, w/ qt-cal lam's weathering an along here.

89-674 o/c 2 840m

Drk blue-gry well fol'd & lin'd non calc. chl-bi-musc pllt; loc. qt ± cal tank vns

Sample

bit rusty weath

89-683 o/c 3 SB7+3C

≤ 0.5 m, slightly tight folded w/ strongly folded SC

S_0 steep, irreg (crenul'd by F_2)

S_1 (?) 131/85 NE (2)

C-P S_2 136/19 NE (1)

S_1/S_2 int. lin. 2° → 138 (2)

S_0/S_1 int. lin. 8° → 115° (1)

89-681 o/c 3 SB7

Lam'd pale → med grn chl plt + w/ fine cream calc - lam's; rare bi-rich folia.

PS_2 015/34 SE (1) (= S_1?)

S_0 steeper here

S_2(?)/S_0 int. lin. (colour striping) 24° → 152° (3)

F_4 axis (small kink folds of S_2) 28° → 073° (3)

S_1 (?) 158/70 NE (1)

89-682 o/c 3 SB7

S.O.S.

S_0 152/51 NE (2)

PS_2 159/19 NE (2)

S_0/S_2 int lin 4° → 352° (1)

S_1 (?) 163/81 NE (2)

SW ° ! NE D. SW verg here

89-680 o/c 3

PS_2 102/24 N (3) (= S_0)

L_3(+) fine cren. on S_2 4° → 105° (2)

Silver-grey to blue-grey weath, loc. rust-flecked dark grey non calc. plit w/ pale greenish-yellow to grey silty Qtz-Cal lam's V. simi. to 89-668-9. local lithon structure. Calc. bands abund. loc.

89-684 o/c 3 SB7 + SC

S.O.S.

S_0 steep, irreg (crenul'd by F_2)

S_1 (?) 131/85 NE (2)

C-P S_2 136/19 NE (1)

S_1/S_2 int. lin. 2° → 138 (2)

S_0/S_1 int. lin. 8° → 115° (1)

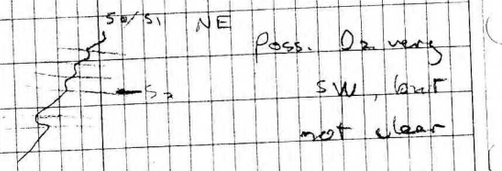
89-581 o/c 3 S.O.S. SB7

S_0 (≡ S_1?) 140/60 SW (2)

C-P S_2 165/14 NE (2)

S_0/S_2 int. lin. 10° → 148° (2)

F_2 fold axis 8° → 152 (1)



Poss. D_2 verg SW, but not clear

JULY 12 Sunny, Hot

R. D. PENHALL LTD. MADE IN VANCOUVER, CANADA DUKSBAK WATERPROOF

FIELD

687 (cont)

Parts of 1s are speckled w/ grn, poss. tuff admixture; NW end of o/c has more aph grn vole (?)

89-688 o/c 3 5D?

More aph-grn-grey non calc. wkly fol'd hornfelsed tuffaceous

Weak S_2 085/10 S (2)

89-689 o/c 3 5D?

Vfg grn-grey non calc poorly fol'd mass. metatuff?; can see v. small poss. mafic minerals (or chl pseudomorphs) flattened // to fol'n; also aph. med-dk gry strongly calc, finely lam'd metasls (or finer grnd); no contacts visible; Both strongly fr'td.

Sample - lam'd calc metapelite.

89-690 o/c 3 5C

M- c.g. strongly alt'd, wkly fol'd diab. ✓ text'd ✓ metabas.

R. D. PENHALL LTD., MADE IN VANCOUVER, CANADA
DUKSBAK WATERPROOF

686 (cont)

Below this, elev. 1100 m, is finely lam'd calc - aph - grn tuff (?) w/ interval. more mass. aph.-grn-grey calc. tuff(?)

(Sample) bas, lam'd grn rock

Lam attitude changes rapidly, prob. folded.

S_0 (?) 124/19 NE (2)

At ~1090 m, ~ 2-5 cm thick pale-grey rxt'd ls bed in SOS

S_0 085/24 N (2)

89-687 o/c 3 TS 5E

S_0 129/32 SW (2)

139/55 SW (2)

White & med grey banded ls, w/ bdg 1-4 cm thick showing soft sed or tectonic disruption, weathers diff'ly, loc. strong S_2 // S_0

Sample

FAx (F_1?) 24 → 117° (2)

R. D. PENHALL LTD., MADE IN VANCOUVER, CANADA
DUKSBAK WATERPROOF

JULY 13 SUNNY, HOT

89-684 o/c 2 5B?

Slightly calc grn-grey chl musc pelite

P_{S2} 106/18 S (1)

F_2 fold axis 2° → 283 (2)

(isoclinal)

89-685 o/c 3 5B/D?

Mass., resistant, reddish-brn weath pale-med grn, homogeneous tuff/metapel(?) fol'n (prob. S_2) weathers differentially. No internal structure. Non calc., green; Poss. not Vangorodon.

Lam. (S_0?) 159/30 SW (1)

Intercalated w/ well lam'd, variably calc. med-pale grey vfg. pelitic sed or tuff, simi. reddish weath. TS 685A metapel (3k.)

(Samples) TS 685B

No sign of S_1 or S_2 here.

89-686 o/c 3 5D?

Weak S_2 169/13 NE (1)

Similar vfg grn-grey non calc metatuff w/ better developed fol'n/flaserbeds; Stronger S_2 (?) 126/45 NE (2) below

FIELD

89-696 o/c 3 5B0

Grey calc. musc pllt. stained red Fe stained Cb marg.

PS2 099/36 SW (1)

SW NE

555

Symm. lithon structure.

89-697 o/c 3 5C+B7

S1/S0 118/48 SW (2)

PS2 053/28 NW (1)

S1/S2 int lin 24° → 096 (2)

looking NW at mullion folds

Asymm nucleon

Int. fold metabas w/ intercal. interfolded marginal lam'd chl pllt V. rusty weath.

FIELD

89-693 o/c 3 5B7

S1 107/55 SW (2) steeper than S0

S0/S1 int. lin 11° → 278° (2)

PS2 106/12 S (2)

D1 verge NE

in 5B7; drk-med grn & cream lam'a.

89-694 o/c 3 5D

Orange-red weath, pale grn aph. musc. hornbl. locally w/ drk grn chl lam's poss. tuff, non calc., no mineralogy

89-695 o/c 3 5B7

Strongly crenul lam'd grn & cream chl pllt (5B7) marg. to fg. pale grn sim to 694

CS2 067/16 SE (1)

S1 ≅ S0 137/74 NE (2) variable since crenul'd by F2

S0/S2 int lin 0° → 135° (2)

CS2 146/17 NE (2)

(Sample pale grn bas(?))

FIELD

89-691 o/c 3

C.g. Qz bearing metabas (?) w/ grn amphib. to ~ 0.5 cm, clusters white plag, grey Qz (5-10%) & diss. Py; non mag, non fol'd.

(Sample)

More conventional 5C to E

89-692 o/c 3

S1 134/75 SW (3) 5B8

CS2 075/10 SE (1)

S2/S1 int lin 241° → 127 (2)

Non calc. grn gry chl musc pllt marg. to 5C, grey musc pllt on road.

S4 128/78 NE (2) - kink bands

S1 ≅ S0 128/77 NE (3) in 5B7 further to E. Intercal. w/ 5D cong.

R. D. PENHALL LTD., MADE IN VANCOUVER, CANADA DUKSBAK WATERPROOF

89-700 o/c 3 by drill site

Well foliated dark grn metabasalt

flanked by med-pale grn chl plt

S_1 094/65 S (2) 115/68 SW (2)

S_0 105/30 N (2)

in SB7 S_0/S_1 int. lin 15° → 305 (2)

in SC S_1/S_2 int. lin 2° → 281 (2)

in SC PS_2 107/6 NE (2)

89-555 o/c 3

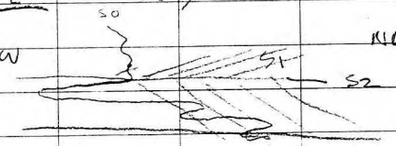
PS_2 113/5 SW (1) 033/6 NW (1)

S_1/S_2 int. lin 4° → 281 (3)

Well developed 1cm lithon struct; no sense of symm.

89-699 o/c 2-3 580

PS_2 100/6 SW (1)



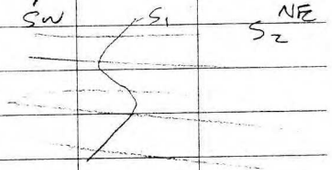
S_1 105/30 SW (2)

116/46 NE (2)

S_1/S_2 int. lin 2° → 293° (2)

No dominant asymm? Maybe S

D2 verges SW



HAPPY BIRTHDAY

July 18 [redacted] Sunny, Warm

89-698 o/c 2 by DDH 77-10 5B

Silvery grey weath med-pale grey calc-xpltc mbx; loc. non calc. bands, w/ good small scale lithon struct; no dominant asymm.

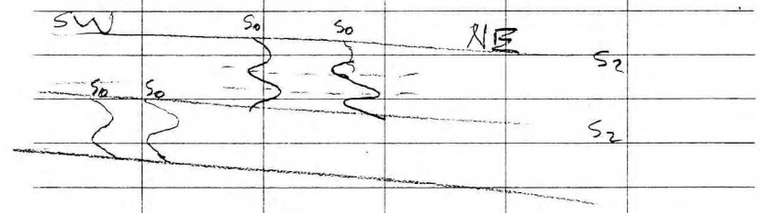
254/074/16 NW (1)

PS_2 161/5 SW (1) 083/4 N (1)

F_{S_2} 2 → 123 (2) isoclin

S_1/S_2 int lin 8° → 296 (2)

S_1 131/17 SW (2)



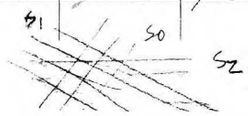
89-554 o/c 2-3

PS_2 unreliable 5 → 291 (2)

S_0/S_2 int. lin 4° → 280 (2)

S_0 105/82 S (2) variable

S_1 100/20 N (2)



89-705 o/c 2 3D5

Loc. approx. Pale grn grey lam'd calcsil & ~20% dk brn-gry bi+ pllt; interlayer in chl-bi pllt, cut by fol'd metabas. All s/c.

89-706 o/c 3 3C

Well fol'd rusty weath med-cg. metabas.

PS2 137/46 NE

89-707 o/c 2 360

PS2 171/26 E (1)

S0=S1/S2 int. lin. 18 → 133 (2)

Rusty weath Musc-Qtz-Bi pllt, weak comp banding sub // to S2.

L3 (fine wrinkle lin.) } on S2 15 → 151 (2)

L4 (coarse cren.) } 13 → 064 (2)

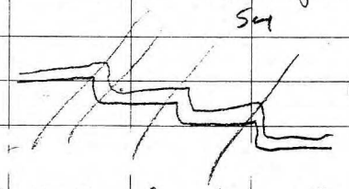
89-703 o/c 3 3G5

Finely comp. banded Musc-Qt-Bi pllt verging on schist, non calc., alternating cream & drk gry. Comp. banding // to S2. Rusty weath.

PS2 102/44 NE (2)

S4 (?) 144/45 SW (2)

Axial surf to 1-2 cm scale kink folds in S2; verges NE.



L3 15° → 321° (2) Fine wrinkle lin on S2

Becomes more chl rich, Qtz-poor in places.

89-704 o/c 3 3G5

PS2 074/24 NW (1)

L3 22 → 306 (2) on S2

JULY 19 SUNNY, SMOKY

89-701 o/c 3 3D5

Pale cream & drk gry lam'd calcsil / bi pllt, w/ 3-10 mm thick lams. Calcsil bands may be Qt+Fs, in part. Fibrous grn actin on some S2 surf.

PS2 (// to comp layering) 113/12 NE (2)

L3 fine wrinkle lin on S2 pllt surf. 8° → 130° (3)

Sample.

Grds into drk grn-gry pllt w/ lesser med gry Qtz-rich lams along strike. Cut by well oriented fine Cal stringers.

Vein 085/40 N.

89-702 o/c 3 360, 3C

PS2 136/22 NE (2), lin 36)

Rusty weathg non calc. drk gry bi-chl-qt pllt adjac. to well fol'd m-c.g metabas.

89-713 o/c 3 5C98

S.O.S.; w/ intense vert foln
exposed (S1?)

P S1 128/76 SW (2)

Large Qtz vn subcrops here

89-714 o/c 3 5C, 5BT

PS2 165/30 NE (1) in 5C

S ⊥ S1 099/85 S (1) } in 5B
S1/S2 int. lin 12° → 10.5 (2) }

PS2 134/23 NE (2) in 5C

S1 115/35 NE (1) in 5C

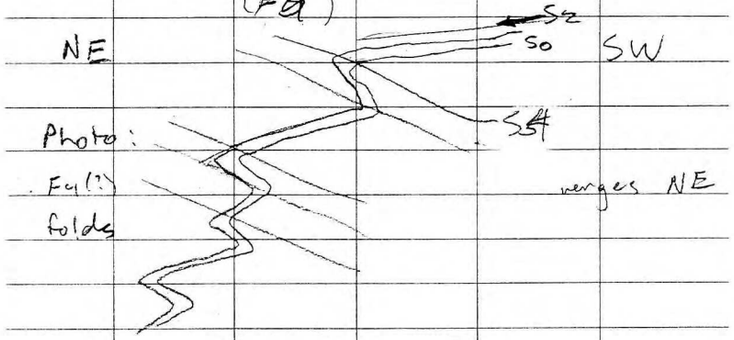
Intensely foliated & chl alt'd metabas w/ adjacent finely lam'd calc. chl. pelite; crenul'n on flanks of 5C but no asymm

N side of 5C	S1	109/70 NE (2)	
	S1/S2 int. lin.	11 → 115 (2)	
	S0/S2 int lin	18 → 118 (2)	

89-710 o/c 3

PS2 136/13 NE (3)

FAxial plane (FQ) 121/35 SW (2)



L3 5° → 135 (2)
9° → 324 (3)

Photo — F2 isoclines shown off by Qtz veins & chl rich bands
Musc-chl-bi-qtz pelite, from med. gry lam'd to pale & dk gry banded w/ varying Qtz & chl-bi amounts, non calc. rusty weath
F2 isoclines present as axes of later chevron folds in S0.
S1=S0 mainly ⊥ to S2.
Kink bands 073/75 N (2)

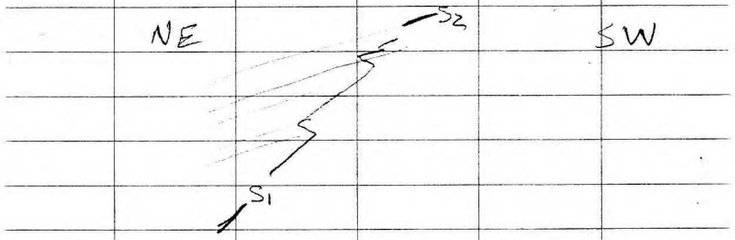
Photo 121 Vang. 5B7 w/ S2 fabric
ext 8-565

89-708 o/c 3 3 6 0

S.O.S.; fine lithon struct

PS2 161/12 E (2)

S1 121/53 NE (2); verges to NE (2)



S4 (Kink bands) 072/75 N (2)

L3 5° → 329 (2)

89-709 o/c 3 360

PS2 152/17 NE (3)

L3 2° → 327 (3)

89-718 o/c 2 5B826

PS_2 097/5 S (1)

F_2 axis 8° → 114 (1) small recr. isocl.

S_1 095/25 S (1)

Drk grey non calc. chl pltt, slightly carbonaceous

89-719 o/c 3 5C, 5B7

Meiss to well foli'd, F_2 folded mg metabas.

PS_2 126/41 SW (2)

S_1/S_2 int lin. 1° → 131 (3)

$S_1 \equiv S_0$ 147/51 SW (2) in 5B7 under fold nose, NE side of SE end of o/c.

89-720 o/c 3 5B0

Silver-grey weathg calc. chl muse pltt PS_2 160/8 SW (2)

PS_2 138/11 NE (1) 005/7 W (1)

F_3 Fld ax. 4° → 326 (2) Small winkle folds, 2 cm ampl.

S_1 109/24 N (1)

S symm Sil(?) lithons varies sw SS NE

JULY 22 CLOUDY, COOL

89-718 Afternoon

Downpour!!

89-505 o/c 3 5B7

S_0 - 086/85 S Variable (1)

PS_2 - 091/5 S (1)

S_0/S_2 int lin 5 → 094 (2)

Drk grn, red weath metapyrox. sill cones 5B7 here.

89-509 o/c 2 5B7

Flanks pyrite sill again.

PS_2 081/3 S (1) - S asymm.

SW NE S_0/S_1 lithon

S_1 096/37 S (1)

89-510 o/c 3

S_1/S_2 int. lin. 2 → 266° (2)

S_1 086/82 S (1) variable

PS_2 098/11 S (2)

F_2 Fld Axis 6° → 069 (1)

S_0 061/57 NW (1) N side of o/c on road

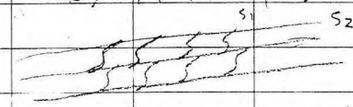
89-715 o/c 2 5B0

PS_2 100/20 SW (1)

89-716 o/c 2 5B6

PS_2 096/9 S (1)

S_1 110/49 SW (1)



D_2 SW vergent.

S_1/S_2 int. lin 8° → 108° (2)

Silvery grey weath, well lithon'd musc chl pltt, mostly non calc here, w/ cal. vns.

F_2 fold axis 5° → 113 (2)

Photos (3) Classic SW vergent lithon style

89-717 o/c 2 5B0

S_1 109/36 NE (1)

PS_2 105/8 NE (1)

F_2 (atm) 15° → 302 (2) tight recumb. fold.

JUL 4 24

89-723 o/c 3 MTMLTE

PS_2 124/8 SW (2)

Drk grn grey homog to lam'd (color banded) amphib. (?). On other side, monotonous drk grn to grn-gry fol'd calcsilicate.

89-633 (?) 3D

Very rusty weathg (in places) massive, pervasively fract'd, dark purple grey to greenish grey, locally lam'd calcsil.

89-635A ICD

Well fol'd rusty weathg schist (bi-musc-qtz). Qtzo feldspathic and graphitic bands, minor calcsil. bands

89-601 o/c 3 3DG

Drk gry & grnish bi-chl pllt w/ 1cm or less pale grn calcsil. bands

89-600 lam'd calcsil, poss. minor intrfolded metabas. 3D

89-625 o/c 3 3G/D

Bi-musc-qtz pllt w/ qtz ose lam's to 1cm; purplish gray & greenish calcsil.

PS_2 116/24 NE (2)

and purplish grey calcsil w/ musc/bi partings, rusty weathg, 3G ish (samples)

89-720 (cont)

F_2 fld axis 8° → 293 (2)

recumbent;

2nd ary cal core.

89-721 o/c 3 5B?/5D/5C

F.g. fol'd pale grn chl pllt, poss volc or f.g. diab., bec's 5D core.

PS_2? 144/49 NE (1) only fabric but may be S_1?

PS_2 166/25 NE (2)

So 142/60 NE (1) looks l.c

Comp. banding w/ reddish & grnsh weathg bands; 5B? - 5C uphill

S_5 (fract clvg) 042/85 SE (2)

S_1 122/62 SW (1)

89-722 o/c 2 5B?

PS_2 112/13 NE (2)

S_1 107/50 SW (2); overprinted by D_2

F_2 fld axis 4 → 283° (2)

July 26 w/ Ken McClay

89-613 o/c 3

Int. lin S_0/S_4 in 3D $8 \rightarrow 004$ (2)

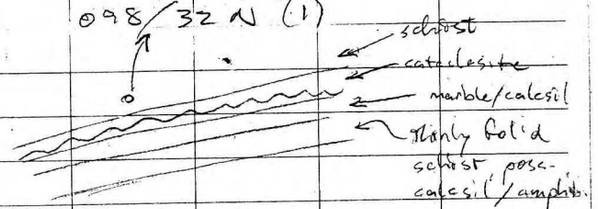
Top schist o/c PS_2 150/36 NE (1)

89-724 o/c 3 F66 W½

Interval grey weath marble & yellow weathg calcsil; in highly sheared calcsil schist w/ zones of blk & gry ultramylonite; shows zones of gry cataclasite & blk ultramylonite; thin band (1 m?)

S_4 095/15 N (2)

S_2 098/32 N (1)



Lin (poss S_0/S_2) $13 \rightarrow 315°$ (1)

Schists are rusty (weath), dk blue gry, very pyritic, poss amphib. or calcsil; thinly fol'd

Sample 724 A = ultracataclasite

724 B cataclastic schist

89-725 o/c 3

S_0/S_4 int. lin $3 \rightarrow 114$ (1)

L_3? $7 \rightarrow 145$ (1)

Flat lying qtz-feld + calcsil schist

145/10 NE (1)

89-773

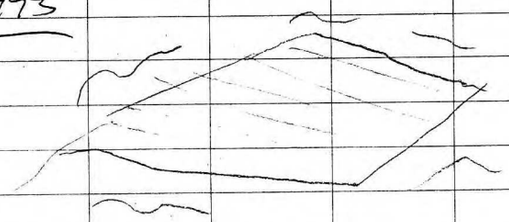


Photo (2) Blk calcsil (?) boudin in marble.

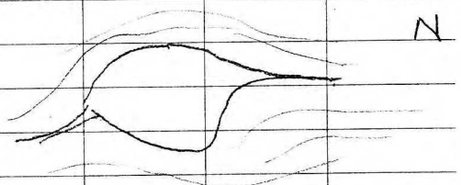


Photo: Calcsil augen in marble

June 27 Sunny, warm.

89-726 o/c 2 ICD

Strongly lin'd bi-qtz_2 fs schist

PS_2 098/11 N (1)

Lin (S_0/S_2? colour striping on S_2) $11 \rightarrow 004$ (1)

Just to SE, ductile deformed gran; not very strongly deformed; decent lin'n on C plane.

Min Lin $5 \rightarrow 358$ (1)
Stretch

C fabric 092/8 N (1)

89-727 o/c 3

V. weakly deformed bi-musc gran, w/ scattered K-spar megacrysts.

89-728 o/c 3 ICD

PS_2 104/9 S (1)

Bi Qtz_2 Fs schist w/ and. or stauro. (?); appears to be thin lenses of granitic

FIELD

Photo Tectonic cont. between
Blk banded calcsil &
buff marble + calcsil

Photo : Deformed sill cutting deformed
schist w/ blk cataclasite
along margin & thrust boundary

R. D. PENHALL LTD. MADE IN VANCOUVER, CANADA
DURABRK WATERPROOF

89-735 o/c 3 1CD

SOS

PS_2 091/24 S (2)

S_0/S_2 lin 22 → 152 (1)

89-736 o/c 3

Weakly fol'd musc-bi gran.; weak C-S fabric developed

C foln 103/18 S (2)

Min. Lin 5 → 005 (1) Mot quite on C plane.

89-737 o/c 3 1CD

PS_2 163/18 NE (1)

Garn. rich Musc-bi-Qtz-fs schist.

89-738 o/c 3 10AB

Moderately fol'd & differentiated biot musc gran, with lozenge shaped matic poor blobs & gradational transitions from leuco- to melano granite. Poor C-S fabric, not highly strained.

Sample

89-731 o/c 3 1CA

PS_2 106/12 S (2)

Qtz Fs Bi And Staur schist

89-732 o/c 3 10AB

Weakly fol'd bi ± musc gran.

No obvious CS fabric

89-733 o/c 2 10AB

Weakly fol'd K spar megacryst.

bi-musc. gran.;

89-734 o/c 3 1CD

PS_2 114/32 SW (1)

Qtz Fs Bi schist w/ abund pinkish And, red garn; scattered small tourm (?) xtls.

Crenu. Lin 18 → 165 (1)

Rodding lin 25 → 167 (2); poss. fault related; Garnets look slightly flattened into S_2.

S_0/S_2 lin 20 → 156 (1)

Bi-rich & Qtz Fs rich bands on S_2.

material w/ C-S fabrics?; schists have shear bands in schist



a very thin foln w/ strung out Qtz layers & lenticular fabrics



Lin on S_2 11 → 349° (1)

(Crenu)

And & staur; poss. garnets on S_2

89-729 o/c 2 2 NW (1) 3D

PS_2 055/4 SE (1)

1-10 mm banded f.g. purplish, brn weath. calcsil. w/ thin grn-gry bands.

Lin 0 → 174 (1)

89-730 o/c 3 1CD

PS_2 020/10 SE (1)

SOS

S_0/S_2 int. lin 7 → 175 (1)

FIELD

Entered up to here ←
before first
stereoplots.
Add 738+ to
data file.

R D PENHALL LTD. - MADE IN VANCOUVER, CANADA
DURABAK WATERPROOF

JULY 28 w/ AR

30 Sheep day!

89-742 o/c 3

PS_2 125/27 NE (2)

Rusty brn weath dk gry grn & pale grey banded Qtz-Fs-Bi feldspathic schist shows small F_2 recumb. isoclines, $S_0 \parallel S_1 \parallel S_2$

89-743 o/c 2

PS_2 080/17 S 3D

Lin 15° → 145° (S_0/S_2 int'n)

Lin (S_0/S_2 int'n) 39 → 155°

PS_2 081/33 S (2)

Grn gry & blk lam'd calc.sil & bi rich metapel., loc. rusty weath.

89-744 o/c 3 3D

S_4 (kink band axial plane) 120/70 NE (0)

verging SW

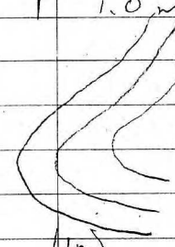
PS_2 123/4 SW (1)

Folded Fs(Qtz) un. Z symm



Looks like blk & pale grey banded Qtz-Fs & Bi (Amphib.) rich schists w/ prob. grn-gry feldspathic bands (no garn. staur) Looks like garn. protolith (cf. 'thin' sect).

F_2 axis 5° → 262 (2)



Also thick f.g. blk bands, prob amphib.

PS_2 080/14 N (1)

89-739 o/c 3 LCD

Qtz Fs Bi schist, banded, garnet retrograded to biot; synkin. up to 1cm

PS_2 158/26 SW (1)

89-740 o/c 3 10AB

Weakly fol'd bi musc. gneiss w/ scattered Kspar megacrysts

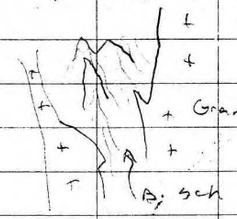
Jnt 095/71 S (2)

Widely spaced

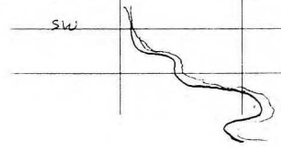
89-741 o/c 3 1CD/10AB

Cord. between fol'd gran w/ infolds of bi schist & Qtz Fs Bi Garn-Sill schist; schist cut by undeformed pegmat dykes

Photo



PS_2 085/25 N (1)



F_2 fold in matic material in schist 5 → 246 (1)

Lin. (So/Sz) → 153 (2)

89-753 o/c 3

Weak C-S fabric in folded gran. QFP dyke here & intense Qtz vning in gran. poss. a fault here.

89-754 o/c 3 ICD

PSz 105/15 S (1)

Strongly crenul'd med-garn. schist w/ strongly banded. Qtz vns.

Cut by steeper S. dipping shear bands.

89-755 o/c 3 3D

So // PSz 092/34 S (1)

Med. grn gry banded calcsil; Py inlets

89-756 o/c 3 ICD

PSz 070/19 SE (1)

Garn-staur schist.

lenticular shear fabric; increases S to calcsil

Spec'l Sincars 119/40 SW (1)

89-748 o/c 3 3D

PSz 090/44 S (2) Not generally

This steep above; at base of o/c.

Thinly banded grn gry & blk, rusty weath. in places.

89-749 o/c 3 1G

Marble band w/ intensely deformed calcsil. layers.

89-750 o/c 1 ICD

Marble/calcsil & irreg. blk & beige ultramcataclasite; looks like boulder, sits on garnet-staur schist.

89-751 o/c 2 ICD

PSz 055/20 SE (1)

Garn.-andalus. schist, minor calcsil.

89-752 o/c 2 3D

Thinly banded calcsil & biot. schist; Qtz veins very lensoidal here

PSz 078/23 SE (2)

89-745 o/c 3 3D

Brn weath thinly laminid grn gry calcsil w/ abund. bi-rich folia

PSz (// So // S1) 117/24 NE (2)

So/Sz int. lin 10 → 317 (1)

89-746 o/c 3 3D

PSz 126/13 NE (1)

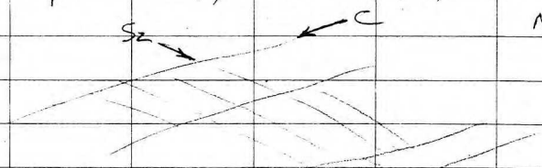
undulating

Lin (rodding or crenu) 10 → 160 (1)

89-747 o/c 3 3D

PSz 104/21 NE (1)

Shear plane 114/17 SW (1)



Crenlin (L3) 2° → 157° (2) on Sz

Thinly Banded calcsil & bi schist

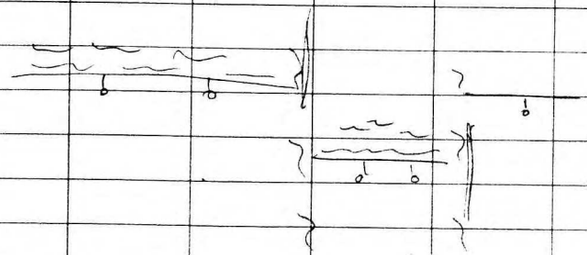
JULY 29 w/ AR (Thesis) Hot !!!

89-742 Qt-bi-musc schi. w/ scattered garn. & andal

89-761B o/c 3 1G

Shear planes NW 070/40 SE (1) with SE flat S_2

Marble appears to be sub ⊥ to shear fabric.



89-761A o/c 3 1G

Intensely deformed sheared schist sequence w/ ~ 1m thick marble/calcsil band. Calcsil intensely band'd.

PS_2 069/35 SE (1)

89-757 o/c 3 3D

Thinly banded calcsil;

PS_2 170/12 E (1)

89-758 o/c 3 3D

PS_2 076/17 SE (2)

S_0/S_2 int. lin 13 → 177 (2)

Thinly lam'd buff weath. pale grn-gry calcsil & lesser purplish brat schist some band'd Qt vns

Photo - flat lam'd calcsil

Photo - disharm folds

89-759 o/c 3 1C AB

M.g. bi-musc gran. w/ weak C-S fabric.

C fabric 100/35 S (2)

Min elong. lin. 30 → 160 (1)

89-760 o/c 3 1C D

PS_2 094/16 S (2)

Fold axis (F_2) 10 → 150 (1)

Garnet-bi schist, minor calcsil. bands

Z symm - phase 2 folds

89-768 =
84-325 o/c 3 ICD/3D

Syntectonic granitic sill in intensely sheared schist/calcsil w/ very fine f6/n; sch is well f6l'd w/ garn-bi-rich layers. All f6/n S_2 ||.

Photo

$P S_2$ 106/20 S (2)

garn. rarely on bi-rich S_2 folia

Min lin. 18 → 174 (2) on S_2

2cm — remons of garn sill:

Abund. lenses of qtz drawn out || to S_2

JULY 30 w/ AR. (thesis) COOLER, LATE RAIN

89-769 = 84-320 o/c 3 3D

$P S_2$ 090/26 S (2)

Coarse wrinkle lin ≃ S_0/S_2 int.

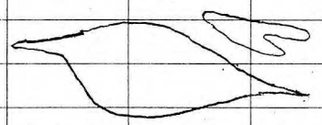
24 → 154 (1)

Thin banded calcsil. $S_0 = S_1 \simeq S_2$, w/ rare drk grn amphib boards

89-764 o/c 3 1G

N S

Photo



Deformed marble/calcsil w/ calcsil above

$P S_2$ 076/14 SE

89-765 o/c 3 ICD

$P S_2$ 121/34 SW (2)

Garn-and-staur-bi schist

89-766 o/c 3 3D

Calcsil, well lam'd, & bi schist w/ bi-rich streaking on S_2

Min Lin 14 → 180° (2)

S_2 104/16 SW (2)

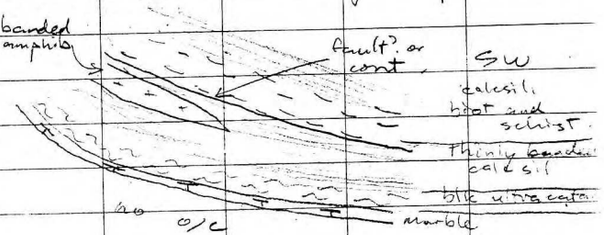
89-767 o/c 3 10AB

$P S_2$ 090/25 S (2)

Undeformed aplite sill ~ 0.5m thick ~ || to S_2.

89-761B o/c 3 1C

V fg blue grey flinty blk & white weath cataclasite, prob after calcsil; below upper ICD schist package; goes downward into v sheared, softer blk rock, pass chloritic (retrograde). Amphib. sill in calcsil on ridge top.



89-762 o/c 3 3D

Thinly lam'd calcsil & biot schist

F_2 folded 4 times; discrete spaced shear

F_2 axis 7 → 140 (1) dipping S.

$P S_2$ 096/6 N (1);

Shear 115/30 SW (1)

Lin (S_0/S_2?) 0 → 158 (1)

89-763 o/c 3 ICD

$P S_2$ 101/24 S (2)

Arg-biot-garn. schist

89-768 =
84-325 o/c 3 ICD/3D

Syntectonic granitic sill in intensely sheared schist/calcsil w/ very fine foln; schist is well fold w/ garn-bi-rich layers. All foln S_2 ||.

Photo

PS_2 106/20 S (2)

garn. rarely on bi-rich S_2 folia

Min lin. 18 → 174 (2) on S_2

2cm  remnants of garn sill:

Abund. lenses of qtz drawn out || to S_2

JULY 30 w/ AR. (Thesis) COOLER, LATE RAIN

89-769 = 84-320 o/c 3 3D

PS_2 090/26 S (2)

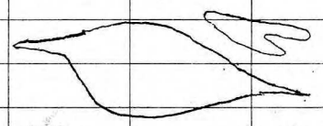
Coarse wrinkle lin ≃ S_0/S_2 int.

24 → 154 (1)

Thin banded calcsil. $S_0 \simeq S_1 \simeq S_2$, w/ rare drk garn amphib bands

89-764 o/c 3 1G

N S

Photo 

Deformed marl/calcsil w/ calcsil above

PS_2 076/14 SE

89-765 o/c 3 ICD

PS_2 121/34 SW (2)

Garn-and-staur-bi schist

89-766 o/c 3 3D

Calcsil, well lam'd, & bi schist w/ biot streaking on S_2

Min Lin 14 → 180° (2)

S_2 104/16 SW (2)

89-767 o/c 3 10AB

PS_2 090/25 S (2)

Undeformed aplite sill ~ 0.5m thick ~ || to S_2.

89-761B o/c 3 1C

Vfg blue grey flinty blk'd. white weath. cataclasite, prob after calcsil; below upper ICD schist package; goes downward into v sheared, softer blk rock, poss chloritic (retrograde). Amphib. sill in calcsil on ridge top



89-762 o/c 3 3D

Thinly lam'd calc sil & biot schist

F_2 folded Qtz vns; discrete spaced shear

F_2 axis 7 → 140 (1) dipping S

PS_2 096/6 N (1);

Shear 115/30 SW (1)

Lin (S_0/S_2?) 0 → 158 (1)

89-763 o/c 3 ICD

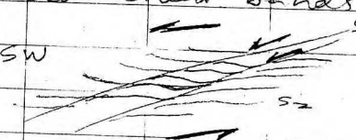
PS_2 101/24 S (2)

Arg. biot-garn. schist

Calcsil schist bend. below mar. v. thinly fol'd, w/ fol'd gran. sills // S_2; tinkly sound suggests ductile shearing & finer grain size. Prob base of fault zone is gran. contact.

89-772 o/c 3 (CD) 3D

calcsil & bi-garnet schist w/ v. fine fol'n & Qt vn boudins. Fol'n (S_2) cut by steeper dipping spaced shear bands



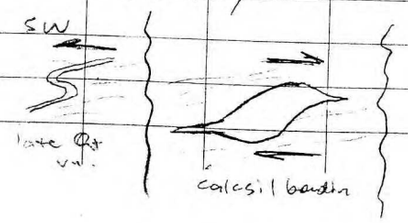
S_2 080/29 S(2)

shear 085/45 S(1)

S_0/S_2 lin intsctn 18 → 174 (2)

89-773 o/c 3 1G

Marble/Calcsil



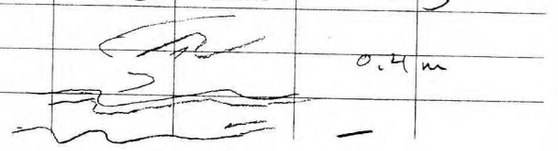
89-771 (cont)

Samples A Ultracat.
B Calcsil in marble
C Gran. sill
D Basal calcsil & fol'd gran sill

Marble has floating in it boudins of cataclasized gran & banded calcsil. Marble ~ 10 m thick here, w/ 2 main bands & gran. sill ~ 0.6 m thick at base of upper one. Blk & white w/ cataclasite has highly irreg. blk bands in whitish vfg matrix, is ~ 2-3 m thick. Have thinner blk cataclasite bands at base of marble. Intensely deformed Qt vn material also in marble

[(Stretch) Lin on gran./calcsil cont 35 → 165 (2)
S_2 (shear fabric) 110/30 S (2)]

There are areas of wild chaotic folding of calcsil bands in marble, e.g.



89-770 (84-323) o/c 3 3D

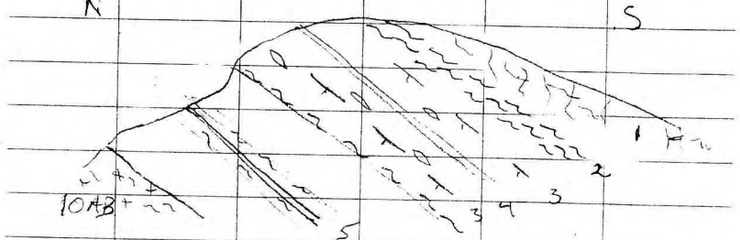
Rusty weath'g, strongly fract'd calcsil, w/ abund late Qt vns & x-cutting S_2; prob. hanging wall type brittle deformation.

S_2 086/25 S(1)

Several Qt vn generations: S_2 ||, boudinaged, lensy; S_2 cross cutting, slightly bend'd; late vuggy. O/c along here is pervasively fract'd & pyritized, w/ local brittle shears w/ oxide fault brx.

89-771 o/c 3 1G

"Tie Fault" - schematic



1. Brittle deformed massive calcsil
2. Ultracataclasite
3. Marble w/ deformed calcsil interbeds
4. Granitic sill (syntectonic)
5. calcsil schist w/ gran. sill

Aug 1

0210 Partly cloudy

89-779 o/c 3 3D

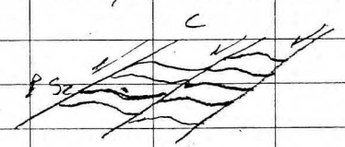
Thinly foli'd brn weath calcsil'd biot-musc schist; cut by well foli'd musc. gramm sill.

PS2 095/35 S (2)

89-780 o/c 3 ICD

Mg. biot-garn.-staur schist; w/ flat lying foln cut by 2cm spaced shears. Lentic. qtz vns.

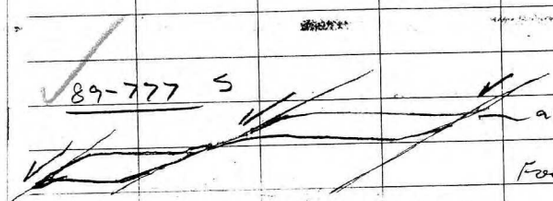
C 100/30 S (2)



Min. Lin on C 25 → 174° (2)

89-781 o/c 3 3D

Thinly lami'd brn weath. calcsil; looks like footwall calcsil in the Fault v. lentic. qtz vn bandings



Thinly lami'd calcsil.

C planes 093/40 S (2)

89-778 o/c 3 1G

Above marble/calcsil is cataclasized calcsil cut by well foli'd garn. dyke. ~ 1m thick

89-774 o/c 3 3D

Thinly lami'd calcsil cut by spaced shears; intruded by garn. sills w/ good C-S fabric

PS2 093/14 S (2)

Shear plane 100/35 S (1)



Indyke. C 111/30 S (1)

89-775 o/c 3 near 84-325 3D

Thinly banded calcsil.

S2 100/23 S (2)

C fabric 100/42 S (1)

Same shear sense

89-776 o/c 3 near 84-325

Garn. w/ well developed C-S fabric

C 075/44 SE (2)

S 078/20 SE (1)

Min. elongn lin. 43 → 167 (2)

89-787 o/c 3 3D

Thinly banded calcsil & purplish grey vfg biot schist/hornfels

PS_2 121/11 NE (1)

Cut in places by widely spaced shears (10 cm spacing)

C 111/32 SW (1)

Intercalated w/ biot. and. schist.

PS_2 120/10 SW (1)

Late open folds evident at o/c & larger scale

89-788 o/c 2 3D

Pale grn & white mottled lam'd calcsil., w/ <1cm thick pale blue-grn & pale to drk grey lams.

Sample

89-789 o/c 3 3D

PS_2 127/25 SW (2)

Lam'd blue grn calcsil, lesser f.g. biot schist.

S_0/S_2 int. lin 5 → 130 (1)

89-790

Lin (bi streaking on S_2) 27 → 163 (2)

Earlier bound'd grain still also present. No clear shear fabrics. Bonding quite symmetrical.

89-783 o/c 2 1048

Frost heaved s/c of c.g weakly fol'd grnst. Trends 135°

89-784 o/c 2 1CD

Biot-staur schist

Sample

TS

1680

89-785 o/c 2 3D

Laminated calcsil, minor amphib-rich bands

PS210 104/20 N (1)

Min lin on S_2 17 → 358 (1)

89-786 o/c 3 3D

PS_2 102/11 S (1)

Banded calcsil & biot-andal. schist.

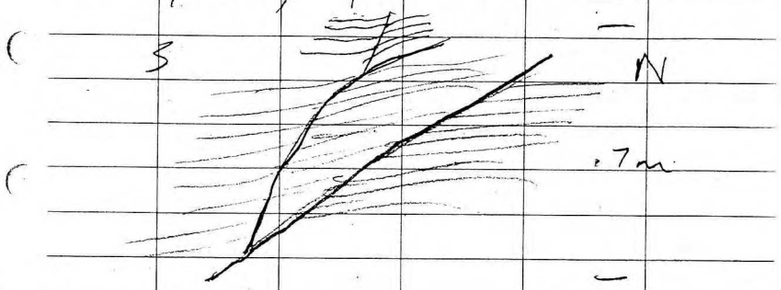
Cut by 2cm spaced shears in places

C 123/30 S (1)

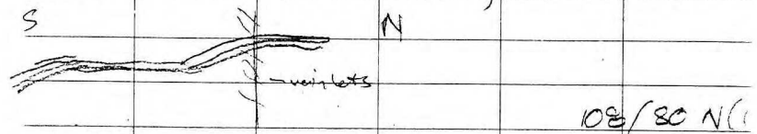
89-781

89-781 (cont)

cut by widely spaced shears.



PS_2 109/15 S (2)



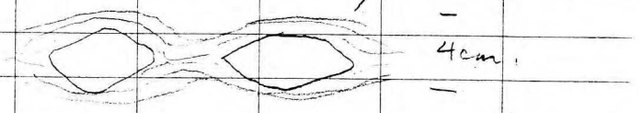
108/80 N(

S_4 kink fold axial plane 108/84 N

F_4 fold axis Σ → 111° (2)

89-782 o/c 3 3D

Lam'd calcsil cut by undeformed pegmatite sills. Strong boudinage of paler coloured calcsil. layers



PS012 96/30 S (3)

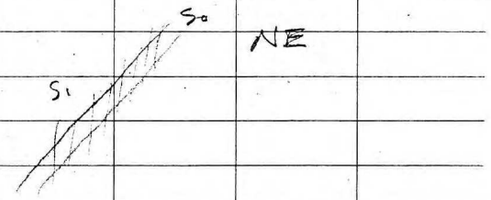
AUG 2 Shrimp Lake

89-794 o/c 3 5C/B7

Mass. c.g., loc. rusty weath., pyritic gabbro, non magnetic, with margin of 1cm/d grn & grey loc. calc. plt & s(Sm, weakly folded by F_2's but w/ no pervasive D_2 fabric, strongly fract'd

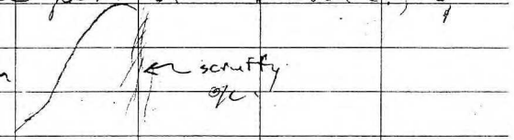
S_0 118/49 SW (1)

S_1 107/84 SW (1)



L_1 S_0/S_1 int lin 5° → 110 (1) on S_0

Can see part of F_1 fold; o/c



~2-4mm long sec. amphibole needles in gb.

89-795 o/c 3 5C

c.g. gb. still, loc. strong epid. altn

Sample

89-791 o/c 3 360

L_3 (fine crenn. lin) 4 → 154 (1)

PS_2 078/5 SE (1)

Rusty weath. dk grn noncalc chl-musc. plt

89-792 o/c 2 360

PS_2 067/38 SE (1)

L_3 30 → 151 (1) SOS.

S_0/S_2 int lin 23 → 145 (1) on

S_2 075/25 SE (1)

89-793 o/c 3 (T5) 3C Alt: 11100

PS_2 080/20 N (1) SOS

Golden weath. cm-layered dk grn chl-amphib. plt (after metapas?) w/ 2 cm long tourm (!) xtls on micaceous "folia"

Sample.

89-616 o/c 3

PS_2 104/16 SW (2)

Lake amphibole rnds ~4mm wide 080/79 N

Lin (S_0/S_2 int) 15 → 140 (1)

Banded calcsil, f.g. biot-rich folia, cut by extensional fract's at hi < 00 compc layering, e.g.:



89-790 o/c 3 elev. 1430 on altim.

10F dykes, ~10% 2-3 mm Qtz & smoky Qtz φ's, 5% clear Fs φ's in v.f.g. yellowish clay altd matrix.

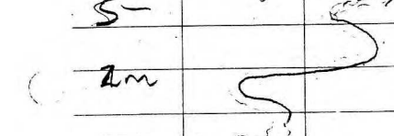
Sample.

89-604

PS_2 130/9 SW (1)

89-801 o/c 3 5B7

Large S asymm. F_2 fold in laminated grn & grey chl pllt.



S_2 070/20 NW (0)

F_2 fold axis 18 → 305 (2)

S_0-1 almost vertical along here

89-802 o/c 1

Strongly fract'd & weathered pale grn pyritic fol'd chl pllt (5D core); poss. calc. after plag. phenos. 2-3 mm.

89-803 o/c 3 5D

Mass., reddish weathg, vfg calc., pyritic, medium grn tuffaceous sed.

Sample.

Contains orange & grn weathg layers 1-2 cm thick, very siliceous in part, w/

89-798 o/c 3 5D/C

Margins of 5C here are S_1 fol'd, homogeneous pale-med. grn chl pllt (5D core, classic) after metabasite.

S_1 137/83 SW (2)

89-799 o/c 3 5B7

Laminated grey to grn chl musc pllts, gradation from 5B05 to 5B7.

S_0 127/56 SW (1) Variable.

S_2 (poorly developed)

Verg ← S_0

SW NE

S_1 → S_2

S_2 (?) 110/30 NE (0) (S_1?)

int lin 10 → 317° (1)

(S_1-0/S_2?)

89-800 o/c 2 5B7

Grey & grn pllt cut by 5D core.

Poor exposure.

S_1(0) 150/52 NE (1)

89-796 o/c 3 5B7

Laminated grn-grey calc. s(sn; margin of 5C

S_0 122/24 NE (2)

S_1 090/56 S (1)

S_1/S_0 int. lin 11 → 90 (2) on S_0

S N

89-797 o/c 2 5Bo

S_1 very grey calc. pllts.

P S_2 180/15 W (1)

S_1 130/35 NE (1)

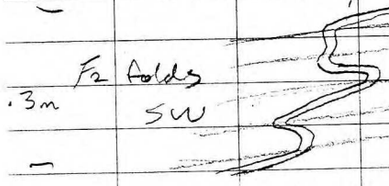
S_0/S_1 int. lin 10° → 315 (1)

L_3 (fine xtn lin on S_2) 2° → 180 (1)

~10 m above this

P S_2 150/21 SW (1)

S_1 105/64 NE (1)



5c overlies pllt at top of o/c

89-809 o/c 1 5B6

Grn-gry lam'd qtz-fs-chl-bi non calc pllt, darker grn-gry folia, prob. metased

89-810 o/c 3 TS 3D (5B)

PS2 051/25 SE (0)

025/27 SE (0)

L3 25 → 119 (1)

Lam'd silvery grey weathg dk grn-gry & pale grn-gry calcsil & chl-pllt, non calc.

PS2 164/23 NE (0)

L3 20 → 115 (2)

89-811 o/c 3 3D(5B)

PS2 173/15 E (0)

SOS; ~ 3-5mm thick pale grn-gry calcsil or Qtz-Fs lam's w/ <1mm darker grn-gry micaceous folia. Non calc

Aug 4 BLIND CRK SOLO

WET BUSH

89-804 o/c 2 5C

Disturbed o/c of f.g. med. grn v. well foliated metabas. (3C or 5C)

89-805 o/c 1 5C

M-c.g. locally fol'd massive gabbroic metabasite

S2 023/30 SE (0)

Min lin (L2?) 28 → 110/15

89-806 o/c 3 5C

S.O.S.; very poor foln.

Adjacent to o/c are chips of blue-grey weathg non calc. pllt.

S1 113/38 NE (2)

89-807 o/c 1 5D/C

Well fol'd grey-grn chl pllt, non calc but w/ S2 // calc. lenses; S1 at angle to S2 ; after metabas

89-808 o/c 3 5C

Poorly fol'd med grn chl pllt, after metabas.

irreg., partly X-cutting calcareous layers. Prob tuffaceous sediment

S0 122/57 SW (2)

S1 & S2 v. weak in this massive rock.

Underlain on NE side by typical Vangorda grey pllt

PS2 140/35 SW (1)

89-685 o/c 3

Much of o/c is thinly banded ls & pale grn aph. calc. s(s(?)) or tuff. F1 folds very prominent. Not pure ls. Interval w/ volc. sed (?) similar to 89-685. Similar to lam'd calc. seds to E. (Stn ?)

Aug 6 Tread Clarmy Rain, then sun

89-817 o/c 0 5B6

Med dk gy non calc. pllt w/ abund cal inlets, poss. pale grey calc layers

Sample A 3D

Nearby is meane Rtout of grey grn lam'd calcsil & chl pllt w/ faint lithon fabric

89-818 o/c 0 5B62

Dk grey non calc chl musc pllt around Qtz lens; 5B2 ish.

89-819 o/c 0 5B6

Dk gy silvery weathg non calc. chl musc pllt; no lithons; poss. 5B6

89-820 o/c 0 5D

Brnish weath medium grey ls w/ irreg. white calc vns to 1.5 cm

Sample,

89-820 o/c 0 5B5

Lam'd med gry pllt w/ pale gry .5cm calcareous laminae

Sample

89-815 o/c 1 5C/T

Strongly fol'd drk grn chl pllt after metabasite

89-816 o/c 1 5B86

Rusty weath non calc, finely fol'd pale gry-grn chl musc pllt.

89-812 o/c 3 elev 1120 5C

Loc. v. approx. M-c.g. metabasite weakly fol'd.

89-813 o/c 1 5C+5

Moderately fol'd & cren'd m-c.g. metabasite, & s/c of thinly lam'd pale-medium grn non calc. chl pllt, reminiscent of 5B7 but non calc. lam's may be after metabas.

5B?

89-814 o/c 3

PS2 020/19 SE (0) 030/22SE

063/27 SE (1)

Lam'd pale grn to white strongly calc. differentially weathering chl pllt, very 5B7 ish

Sample A (TS)

Also 5D core ish med. grn strongly fol'd chl pllt, after metabas.

Sample B

Tres Vanganda!!

89-827 o/c 2

Rusty-brn weath'g grey calc. pllt, Qtz vns, cal. inlets.

89-828 o/c 3 5Bo

Grey, calc. ± chl-musc pllt

PS_2 081/23 N (1)

L 15 → 062 (1)

22 → 056 (1)

$L_{o/1/2}$ 3 → 063 (1)

int. lin.

B

Post 1 Tread 8	Post 1 Tread 9

Post 2 Tread 6	Post 2 Tread 7

Aug 7 Tread

8

A – Post #2 Tread #3 Sept 18/89

N

Post 2 Tread 3	Post 1 Tread 5
Post 2 Tread 2	Post 1 Tread 4

89-826 o/c 3

Well fol'd med grn metabas, F_2-folded along margin

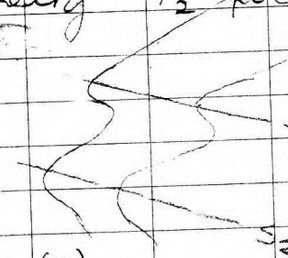
F_2 axis 10 → 074 (1)

S_1 092/36 S (2)

S_2 083/18 N (2) axial planar

S-asymmetry F_2 fold

S N



F.A. 14→250 (2)

89-822 o/c 0 (TS) sill/int. pllt!! 5B2

Drk grey carbonaceous pllt, non calc. 5B2 or ~~5A~~

89-823 o/c 3 5C

M-c.g. drk grn metabas; two weak fol'ns producing crinkle fabric, unclear which S_1 or S_2

S_2 ?? 165/12 NE (0)

S_1 ?? 105/35 N (0)

89-824 o/c 3 5Dcore/5B?

Pale-med grn chl fol'd metabas, w/ margin of chl-musc. pllt w/ calc. lam's.

S_{o-1}/S_2 int lin 1 → 087 (0)

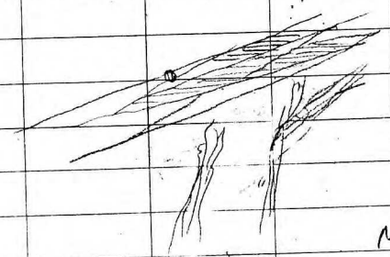
May not be on S_2.

89-825 o/c 2 5C

M-c.g. metabas; loc w/ Qtz-cal-chl vns w/ sheared margins; poss. 2 fol'ns but o/c too disturbed.

S_2 178/21 E (0)

832 (cont).
Calcsil cut by ~0.3m wide shear bands w/ sharp boundaries & internal shears. Footwall v/ blk chl filled fract's & some ⊥ to shears



Minor N-dipping antithetic shrs. Material in shears is drker weath. drk purplish grey i.g. f.g.

(TS) Sample.

"feldspathic cataclasite"

89-833 o/c 3 3D
PS2 155/10 SW (1)
Thinly lam'd calcsil ± bi schist.

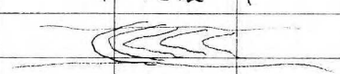
89-834 o/c 2 DAB/16
Marble s/c in gully directly above gran. w/ strong c-s fabric. Footwall calcsil cut out (by gran. climbing upsect.) ICD sch. above marb.

Aug 10 Sunny Solo; Tetsault.

89-832

89-778 o/c 3 3D
En marble hanging wall, rusty weathg calcsil w/ discrete shears ~ 0.5 m across w/ purple blk, vfg, hard ("ringing sound") cataclasite (?) Also strongly fract'd rusty zones. Shears steeper than S2 (~30-40° dip to S) much in evidence in H-wall 3D5

89-832 o/c 3 FG-6 (W½)
Rusty weathg finely lam'd calcsil & f.g. bi-musc schist
F2 axial plane 180/18 W (1)
F2 fld axis 11 → 315 (2)



Shear band 095/25 S (2)
PS2 116/15 SW (2)

Aug 9 Sunny Solo; Bond Crk N.

89-829 o/c 3 5C
Mod. well fold m.g. metabasite; no marginal seds exposed.

89-830 o/c 2 5C 1070m
PS2 098/25 SW (1)
F2 fold axis 7° → 106 (1) (Cb uns)
Well fold f.g. drk grn metabas. w/ Cb uns weathering out.

89-831 o/c 3 3G0 850m
Brn weath. med-drk grey lam'd lithon structured noncalc plft. Lithons ~0.5cm.
PS2 095/14 S (2)
L4 (kink fold axis) 5 → 134 (1)
S4 (" " axpl.) 116/55 SW (1)
S1/S2 int. lin 3 → 130 (1)

89-841 o/c 3 3DS

PS_2 090/20 N (1)

PS_2 060/20 NW (0)

F.g. drk purple-grey calcsil & bi schist ~0.5 SLP; pale grey lensy prag-Qt-rich lams 1-2 mm.

89-842 o/c 3 3DS

PS_2 025/15 NW (1)

Drk gry v.f.g. bi schist w/ lenticular to l'm'd pale & apple grn & gry calcsil. V. similar to 841 bnt calcsil more evident. Rusty weathg, w/ Po/Py along abund. fract.

PS_2 105/18 NE (2)

89-843 o/c 3 3DS

l'm'd brn weathg grn-gry calcsil & drk gry Qt-bi schist.

PS_2 086/8 N (1)

" 112/12 N (2)

89-844 o/c 3 3DS

V. finely l'm'd pale grn-gry calcsil & bi schist (Sample)

89-837 o/c 3 1G

Section:

up

Thinly l'm'd calcsil & bi schist w/ Qtz vns 11 Sz; shr bands, minor blk catacl. Mar + deformed calcsil.

Rusty weathg with bi-qt schist, lesser calcsil bands; ± garn., staur., sill. nos o/c

C-S gran.

89-838 o/c 3 3DS

PS_2 114/26 SW (2)

in thinly l'm'd calcsil; H-well at Tie Hamlt.

89-839 o/c 3 (TS) 3DS

Qtz vn 0.7 m across in thinly l'm'd purp-brn & gry Qtz-bi sch. pass. calcsil bands. Very monotonous brn weathg. → plag.

Sample

8D

89-840 o/c 3 Rusty weathg

M.g. drk gry & white calcsil & Qt-Bi schist

PS_2 010/10 NW (1)

834 (cont)

In gran.

C 085/34 S (1)

S 080/18 S (1)

Min. Lin on C 33 → 160 (2)

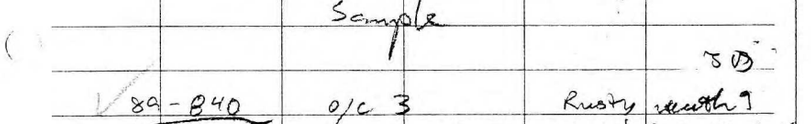
Sample 085/34 S.

89-835 o/c 3

Marble/calcsil., w/ C-S gran. below* & pale grn gry & drk gry calcsil above, w/ thin gran. sills & narrow blk cataclasite zones. Calcsil. above is ~10 m thick above this is brn weathg, l'm'd, purple brn f.g. bi schist

* May be sill; cf. 836

89-836 o/c 3 Section:



89-850 (cont)

F.g. Qt-Bi-musc sch w/ scattered andalusite to 2 cm in clusters.

89-851 o/c 2 ICD

PS_2 074/14 NW (1)

Finely lamd Qt-Fs-Bi schist, w/ F_2 folds common.

89-852 o/c 3 F6-4 (W½) ICD

Along gully is v. strongly fract'd & pyritic sch. or calcsil; elvsd. for gully fault. Rusty weath) Mainly andal. or staur. bi-musc-qt schist.

ICD

89-853 o/c 3 F6-4 (W½)

Red-brn weath) musc-bi schist w/ andal, staur.

PS_2 104/14 NE (1)

S_4 (kink band ax pl.) 074/76 NW (1)

89-847 o/c 3 305

V. rusty highly fract'd bi sch. & calcsil (?)

PS_2 072/21 NW (1)

89-848 o/c 3 305

PS_2 088/18 N (1)

F_2 isoclines in thinly banded calcsil, purp-gry & fg bi sch. also strongly fract'd & rusty weath) -



[ICD below 15/5 m.]

89-849 o/c 3 TS ICD

Gen. L3 (?) 5 → 148 (2) fairly coarse

PS_2 015/10 SE (0)

Musc-Qt-Bi-staur. schist

89-850 o/c 3 by OOH 67A

Qt vn 180° trend, 0.6 m wide

PS_2 128/15 S (1)

844 (cont)

PS_2 109/14 N (1)

Some calcsil bands (~2 mm thick) may be Qt-Fs; i.e. more sch. than calcsil?

89-845 o/c 3

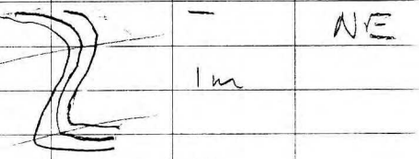
Thinly lamd calcsil & bi 3D-sch. S.O.S.

$P.S_2$ 106/8 NE (1)

89-846 o/c 3 305

PS_2 103/20 NE (1)

S.O.S.; big F_2(?) folds →



F_2 fld axis 11 → 312° (2)

Ax pl. 125/13 SW (1)

in very musc-rich schist layers

Some smaller scale F_2 folds around here too. Major hinge zone? Drag folds above fault cont?

w/ Teresa

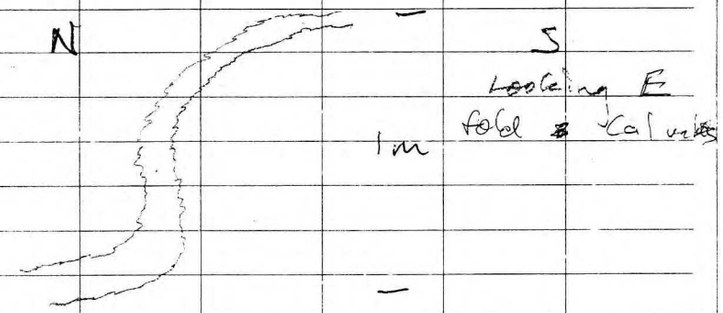
Aug 12 Hot Sunny Hot, Hot
Blind Crk trib.

89-858 o/c 2 3G20
Rusty brn weath dk grey-brn, noncalc. pllt.
PS_2 090/14 S (1)

89-859 o/c 3 3G20, 3D
PS_2 114/85 S (2)
Rusty brn weath, non calc pllt, well fol'd & lin'd,
L_3 (crenn lin on S_2) 7 → 142 (1)
A little further down is yellow & rusty weath, lam'd pale pink, mauve, grey calcsil, locally w/ dark grn chl or amphib bands. Then further on, finely lam'd brn & grey pllt w/ qtz rich lam's, very fine, rare lithon struct

89-860 o/c 3 3C, 3D.
Thin dk grn (pale fg) homogeneous amphibolite lenses in mainly dk grn vfg calcsilicate & brn & grey metapelite
PS_2 132/7 SW (1)

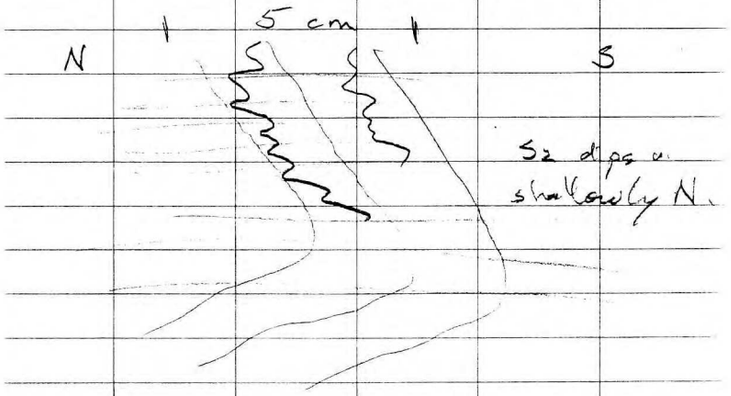
89-856 o/c 3 dw. 960
Strongly fol'd metabas; 5D ish; crenn S_2.
S_1 074/70 NW (1)
L_2 (S_1/S_2 int. on S_1) 0 → 252 (2)



Aug 11 T DREAD (ACCKKH!) CLAIM
w/ IVAN THE TERRIBLE
SUNNY, HOT!! Smoky

89-854 o/c 3
5C S_1 104/84 NE (1)
Mass. dk grn slightly fol'd metabas., w/ calc. banded white & grn poss. 5B7 along S. margin

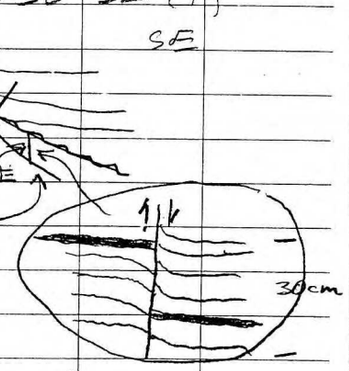
89-855 o/c 3 5B7
Grn & white banded chl-calc pllt on S margin of 5C
S_{1-0} 095/80 S (1)
L_2 (S_1/S_2 int. on S_1) 5 → 256 (1)
L_2 (F_2 fd axis) 3 → 285 (1)



89-865 o/c 3 3D

Prob dark & pale grn banded calcsil (Sample); v. dk gry f.g. pyritic metabas (?) (Sample), & purple-brn. biotitic calcsil (sample). Cut by numerous small-scale faults; generally normal movement.

Minor fault 070/50 SE (1)



L3 2 → 320 (1) } on S_2
" 14 → 139 (2) }

Samples

863 (cont)

PS_2 040/6 SE (1)
PS_2 149/17 NE (1)
PS_2 024/13 NW (1)

Much of o/c is v rusty weathg purplish brn & grnish calcsil (?) w/ poorly pllic partings.
(Sample)
PS_2 145/7 NE (1)

89-864 o/c 3 3D

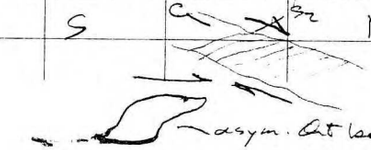
Yellowish jarosite coatings on 3D calcsil w/ good F_2 & F_3 folds (esp. in Qtz vns). Some dk gry, F_4 axis 5 → 096 (2) poss. carbonaceous metapelite



(3E?)

Crem. L3 14 → 140 (1)

Other side calc.-loc. shears developed



89-861 o/c 3

Rusty weathg grey non calc. pllt overlies dk gry f.g. calcsil.
L3 3 → 290 (2)
(crem lin on S_2)

89-862 o/c 3 ± brn 3D

Pale grn-gry, rusty brn weathg, lam'd calcsil; poss. w/ pale grey Qtz-Fsic bands.
F_3 ax. plane 048/87 SE (1) 3cm
F5
F_3 fold axis 16 → 205 (1)
F5 lower down, can see olive grn & gry calcsil. w/ chlor/Qtz foli, & rusty weathg non calc pllt w/ Qtz-Fic bands. Mainly 3D

89-863 o/c 3 3D 3C

Finely lam'd & foli'd purple-brn & dk grey non calc. pllt; minor vfg dk grey amphib (?)

89-873 o/c 3 5B 38

Med-dark grey calc. chl-musc pllt w/ 1-2 cm lithons

PS_2 165/9 NE (1)

89-874 o/c 2 5C

V. strongly fol'd chl. pllt after metabas., relict igneous texture.

PS_2 066/24 NW (1)

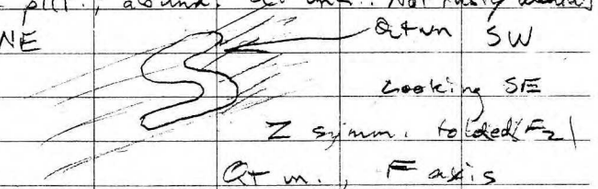
89-875 o/c 3

S.O.S.

PS_2 108/18 NE (3)

89-876 o/c 3 5B 62 8

Drk grn-gry, somewhat carb. chl-musc pllt.; abund. Qtz vns. Not rusty weath'g



Further to E becomes paler grn lam'd non calc. chl pllt; v. green but not relict igneous text. (5B 865)

Aug 13 w/ Evan

Hot! Sunny!

89-871 o/c 3 5B 7, 5C

Lam'd grn & white calc. chl pllt; adjacent to fol'd metabasite

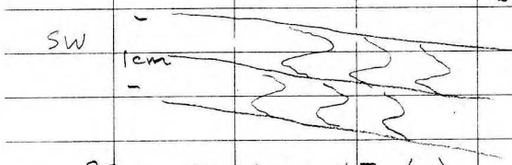
PS_2 162/32 NE (0)

L_2 (S_{0-1}/S_2 int) 20 → 013 (1)

89-872 o/c 3 5C, 5B 7

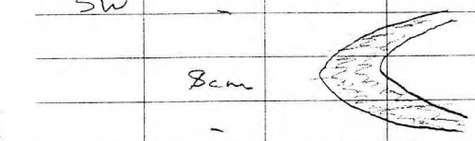
S.O.S.; with 5B 7 to S dipping NE under 5C; 5B 6 on road

5C well fol'd



PS_2 140/23 NE (2)

PS_2 144/18 NE (2) S_{0-1} 136/40 NE (1)



SW S_{1-0}

S_2 NE

89-866 o/c 3

Rusty weath'g pale grey musc pllt below calc-sil sequence; non calc. w/ Qtz Feldspathic lamin. to 5 mm; lithon struct., 360?

89-867 o/c 3 360

Rusty weath'g non calc pllt, fine lithons.

PS_2 119/16 NE (2)

89-868 o/c 3 360

Drk gry & pale gry lam'd non calc pllt, v. thin calc-sil bands. Rusty weath'g

Mainly 360 on down.

89-869 o/c 3 3D? 360?

Rusty weath'g drk & pale grn-gry Qtz-chl-musc pllt.

PS_2 138/10 NE (1)

Poss. pale grn drop bands?

89-870 o/c 3 360

Rusty weath'g non calc pllt

PS_2 104/20 NE (2)

Aug 16 Dixon Crk w/ Ivan

89-889 o/c 3 5A

Slightly rusty weathg, strongly graphitic blk pllt; prob. minor sulfides.

PS_2 086/16 S (2)

L3 6 → 082 (1) on S_2

89-890 o/c 2 5A

S.O.S; to slightly less graphitic

Strongly crenulated S_0 in places

PS_2 084/22 S (1)

L4 FdAxis (F_4) small cm-scale chevron folds of S_0 4 → 268 (2)

S$_4$ (AP plane) 086/66 S (2)

S ~~~ N F_5 verges N

L5 (fine even lin) 11 → 282 (1)

89-891 o/c 2 5A

PS_2 154/6 SW

Slightly rusty weathg noncalc. graph. pllt; minor calc. lam's (<<1mm) & calc coatings.

887

89-893 o/c 3 1S 3D5

Drk grn grey massive to finely lam'd calc'sil (?) w/ pale grey (plag?) lam's; Chl.-rich clay surf. (S_2); v. flat lying. Very hard, siliceous, splintery.

(Samples)

888

89-894 o/c 3 5C358

Well lam'd (2mm lam's) drk grn & pale to drk gry metabas (2) interbeds and grn & white some calcareous lam's; also actin-rich lam's.

Sample (2)

Aug 14 F-6-6-E

w/ Ivan

884

89-890 o/c 2-3 3D

Drk grey, siliceous, mainly noncalc. pllt w/ ~0.5 cm lithons. Non rusty weathg; one thin band calcareous; minor pale grn bands.

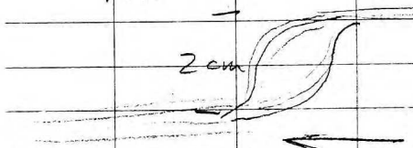
(Sample)

PS_2 102/11 SW (2)

885

89-891 o/c 2 3G1

NW → SE



Rusty weathg, noncalc. pllt w/ Ab-rich lam'd knots as augen (above). Lesser s/c drk grn-gry metabas.

886

89-892 o/c 3 3 or 5C

Drk grn & pale gry f-m.g. metabasite, w/ PS_2 & steeper S_1.

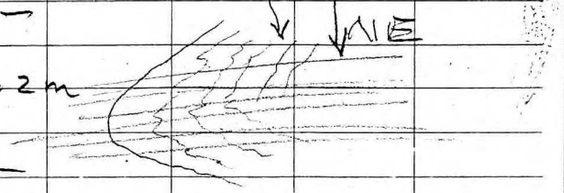
PS_2 141/35 NE (2)

896 (cont)

PS_2 151/6 SW (2)

S_{1-0} 140/61 SW (2)

F_2 fld axis 4 → 320 (3)



SB058

89-897 o/c 2

PS_2 000/35 W (1) in SB 508; locally calcareous

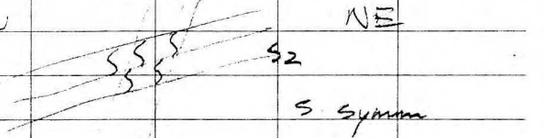
S_{1-0} 146/74 SW (2)

S_{1-0}/S_2 int lin. 20 → 324 (2)

89-898 o/c 3 SB05

PS_2 164/25 SW (2)

S_{1-0} 157/60 SW (2)



PS_2 155/15 SW (2)

894 (cont)

Strong cal vulet development in 030 jnts; also strong cm-scale F_2 folding of S_2 (kink & chevron) FS

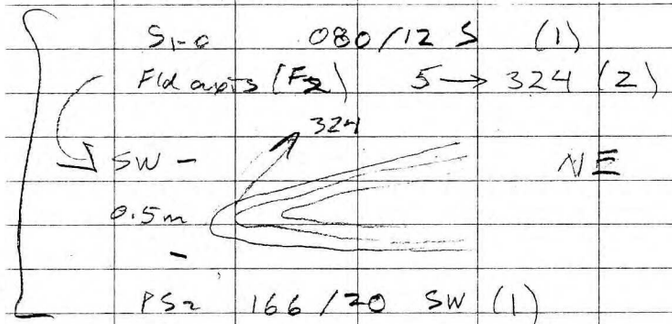
89-895 o/c 2 SB628

Silvery-grey mewsth slightly carbonaceous, non calc pllt w/ abund cal vulets; gry grn color

PS_2 064/8 SE (1)

89-896 o/c 3 SB628

S.O.S



891 (cont)

S_{0-1} mainly // S_2 but some F_2 folds w/ S_{0-1} steep. (e.g.)



Fld axis (F_2) 4 → 323 (1)

↳ Variable

89-892 o/c 1 SB32

Drk grey carb. pllt w/ silty blk ls lenses to 4 cm thick

89-893 o/c 3 SA

PS_2 104/21 SW (2)

Drk gry, v. rusty, fretd, non-calc. graph. pllt.

89-894 o/c 2 SB23

PS_2 015/42 NW (1)

Pale to drk gry, locally calcareous & locally carbonaceous chl musc pllt.

S_5 (5-10cm spaced jnts)

030/70 SE (2)

No comp layering; prob = $S_2 = S_1$

PS_2 025/55 NW (1)

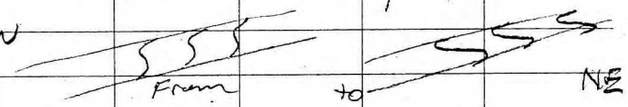
89-899 o/c 3 10E

M.g. Fs-Bi-Qt porphyry dyke (10E)

Sample.

89-900 o/c 3 5B0

Classic 1-2cm lithon stmt, all S sl mm (SW vergence), some extreme flattening of lithons



PS2 151/26 SW (3)

S1-0 142/65 SW (2) : avg.

L2: S1/S2 int. lin 9 → 319 (2)

89-901 o/c 3 SE

Bln & gry weathg finely xtln (aphanitic) med gry & grn grey ls; poor irreg. colour banding ~1cm scale; poss. tuffaceous admixture (grnish parts less calcareous); prob. weakly silic'd; further to W. is intensely brx'd & Qt+Cal vnd grey pllt; along trace of 10E dyke.

89-902 o/c 3 5C + 5B7

F.g. med. grn metabas; grnish calc pllt along hangingwall

PS2 (= S0 in 5B7) 154/26 SW (2)

89-903 o/c 3 10F

Trending ~ 050°, Fs-Qt porphyry dyke; Fs phenos to 1.5cm; clear Qt ~.4mm in m.g. matrix w/ Hb > Bi.

89-904 o/c 3 5D (core) + 5B7

V. well lam'd grn & gry chl pllt w/ cal inlets at angle to lam'n. Very weak S2. Lam's 1 ~ 0.5cm avg.

S1-0 152/67 NE (2)

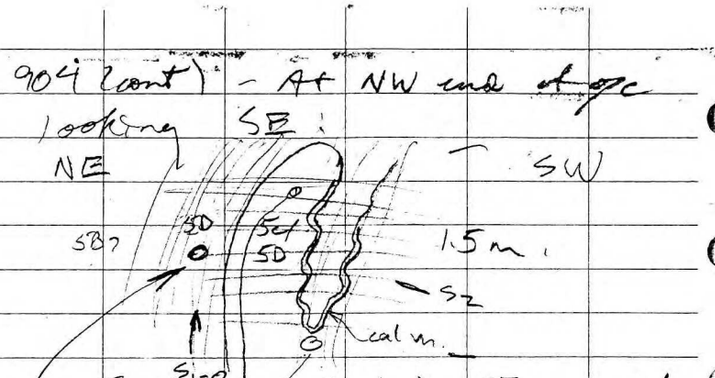
S1/S2 int lin on S1 6 → 154 (2)

CS2 168/15 SW (1)

Cal inlets 170/70 NE (1)

Strongly calc's. V.f.g. relict igneous text. locally. Mainly 5D (core) some probable 5B7

904 (cont) - At NW end of o/c looking SE:



S1 126/65 NE (2)

L1 F1 fld axis 2 → 148 (1)

F1 fld axis 5 → 325 (2)

S2 115/16 SW (2)

Aug 17 — S of Vangorda Dep.
Vangorda Creek

89-905 o/c 2 5B7
S_{1-0} 103/35 NE (1)
Brn weathg chl pllt

89-906 o/c 3 5C
S_1 106/05 NE (2)
F.-m.g. well fold. (S_1) metabas.

89-907 o/c 3 5Bo
PS_2 116/20 SW (2)
PS_2 132/40 SW (2)
PS_2 104/56 SW (2)
S_1 094/74 SW (1)
3-4 cm thick lithons
Silvery Grey calc. pllt & ls interbeds
F_2 fold axis (calcvn) 10° → 272 (2)
F_3 fld axis S_2 → 140° (2)
Abund F_3 folds; accounting for steep S_2?
F_3 fld axis 26 → 165 (2)
Lithons to ~4 cm thick

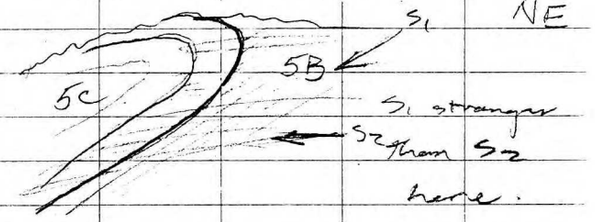
89-908 o/c 2 5B2
Very dk grn carbonaceous pllt

89-909 o/c 3 5C
Med. grn fol'd homogeneous v fg metabasite (5D core) w/ underlying f-m.g. metabas (5C)
~~S_1 (F.?)~~ S_1 110/53 SW (1) (5D core)
L_3 34 → 250 (2)
PS_1 099/75 SW (2) on NE side of o/c.

89-910 o/c 3 5C
Well fol'd med grn chl pllt after f.g. metabas, loc - w/ blk chl. spots on S_2; loc. like 5D (core).
PS_2 123/32 SW (1)
PS_2 132/38 SW (1) → 5Bo
5B7 along margin; infolded by F_2 folds.
F_2 fld axis 17 → 292 (2)

89-911 o/c 3 5B7
S_1 134/88 SW (1)
S_1/S_2 int. lin. 10 → 314 (2)
S_4 (kink band) 088/80 S (1)
V. strong L_2 int. lin & F_2 cren

89-912 o/c 2 5Bo
PS_2 118/15 SW (2)
S_1 117/50 SW (1)
Across crk of band in crk, folded metabas+c, (F_1?)



89-913 o/c 3 5B2



PS_2 121/30 SW (2)
S_1 137/14 SW (1) to almost NE
Maybe opposite → overturned? see below

Aug 18 Swim Dap. w/ Teresa

89-917 o/c 3 5C

Mass. m.g. med grn metabas, non fol'd to wkly fol'd along margins. Comb Qtz-Cal vns.

89-918 o/c 1 5C

Yellowish FeOx weath'g broad Qtz-Cb vn + intensely altd metabas (?); also float on road of f.g metabas, and lam'd chl plit after metabas. (5D core, pale grn) and 5B7.

89-919 o/c 1 5A4

Blk, very graphitic Qtz bearing plit, w/ intercalated yellowish-buff sericitic plit, minor Qtz vning, prominently F_2 crenulated

89-920 o/c 3 5B2

Med-drk gry carbonaceous plit, non calc.
PS_2 119/19 SW (2)

914 (cont) in $5B_2$

S_2/S_1-0 (?) 126/37 SW (2)
F_3 fld axis 6 → 147 (2)
NE verging
NE SW
13cm

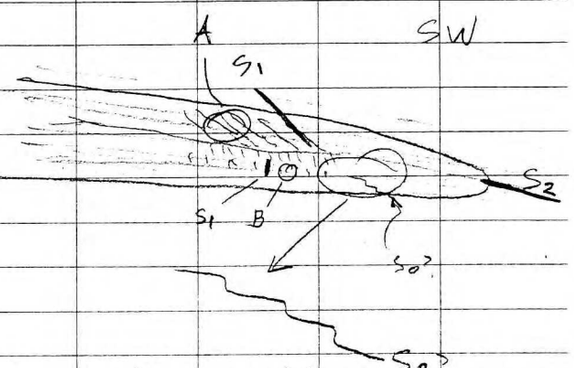
L_3 wvn on S_2;0 22 → 311 (2)

89-915 o/c 3 5B2/5D

PS_2 142/33 SW (1)
S_1 000/25 W (1)
L_2 (S_1/S_2 int. lin) 25 → 318 (2)

913 (cont)

~ 1cm lithons in med-drk gry carb plit.
L_2 (S_1/S_2 int. lin.) 28 → 292 (2)
v. fine.



A S_2 132/14 SW (1) L_2 (S_1/S_2 int'sn) 6 → 292 (2)
S_1 119/40 SW (2)
B S_2 104/20 SW (2)
S_1 109/70 SW (1)
S_0 103/50 SW (1)

89-914 o/c 3

5B7 next to 5C sill, grading into 5B2 w/ thin 5D core sills.

89-928 o/c 3 Earn

Blk ch and arg. S.O.S.

S_{o-1} 155/38 SW (1)

more arg as you go down; one horizon of intensely sheared conglom

89-929 o/c 3 5H?

2 o/c's: (1) f.g. fol'd, med grn bas & very Qtz rich ser-py altd QFP dyke, bimodal Qtz, ~5% diss Py

(2) F.g. massive, med. grn bas w/ ~5% Hb (?) phenocrysts; calc-epid-chl altn

Sample 929A dyke

929B bas.

89-930 o/c 3 5C

M.g. pale & drk grn metabas, weakly fol'd; small Qtz valets w/ Cp blebs

S_1 120/70 NW (2)

89-931 o/c 3 5H

Foliated drk grn & white aph bas

Aug 19 S. of Swim Dep.

w/ Navi Ramp Earn

89-925 o/c 3

Yellow-orange weath'g, buff to pale grey thin-med bdd chert & cherty argillite, cut by Qtz ms at hi angle to bdg ||, to 0.5m thick; cherty arg. has Py xtls to 0.5cm

S_o 085/32 S (2)

Along strike, see gnargey grn-grey argill (?)

89-926 Earn

S_{o-1} (?) 114/60 SW (1)

Pinkish to buff pyritic poorly bedded cherty argillite; polished o/c surface prob. glacial polishing.

89-927 Earn

Similar to 926, pinkish ch → cherty arg. underlain by strongly fract'd blk chert. (sample)

S_{o-1} 126/24 SW (2)

89-921 o/c 3 5Bc

PS_2 114/34 SW (2) (= S_{1-0})

L_3 15 → 221 (1)

Grey lam'd calc pllt; E 4/5 folds

89-922 o/c 3 5c

S_1 099/82 N (1)

M.g. drk grn metabas w/ Hb phenos to 0.5cm.

89-923 o/c 2 5Bo

Grey weath calc. pllt; ls 5B3

PS_2 109/29 SW (2) 5B3

" 084/5 SW (2)

In well lam'd pale & med grey aphan. ls, grading to NE to darker grey shales. less [On 040° trending line] calc ls

89-924 o/c 3 5B32

PS_2 104/28 SW (2)

L_3 (cont) 17 → 261 (1)

Thinly lam'd carbonaceous pllitic ls + junctn of 040° & 070° line 880]

89-938 (cont)

PS_2 54/26 S.E. (1)

PS_2 94/20 S.W. (2)

F_2 20→303 (1)

F_2 22→314 (1)

89-939 o/c 3 5B8

Drk grn chl pllt

S_1 131/88 NE (1)

89-940 o/c 2 5C

S_1 fold f.g metabas w/ chl after P_x phenos to 1cm, flattened; qt-cb. vns (At band in road off map)

S_1 175/75 SW (1)

89-941 o/c 2 5B628

Drk grn-grey chl pllt, carb, non-calc.

S_1 119/48 NE (1)

PS_2 154/35 SW (1)

L_2 (S_1/S_2) 21→314 (1)

S. of Aug 20 Grum Dep. w/ Terry

89-934 o/c 3 5D/5C

S_1 120/47 SW (2)

Pale grn aph. homogeneous metabas, weak D_1 Rock

89-935 o/c 3 5C

M-c.g. metabas

89-936 o/c 3 5C

S_1 127/74 NE (2)

M c.g. metabas

89-937 o/c 3 5B7

P-C S_2 124/8 SW/2

S_1 137/74 NE (2)

" 131/80 SW (2)

S_1/S_2 7→312 (2)

89-938 o/c 3 5C/5B7

Margin of 5C, F_2 folds intense no F_1, fibrous trem. in ins // to S_2. Laminated calc pllt w/ drk grn chl folia w/ oval white F_3-Qtz blobs (variolas (after glass?)). Foss. Menzie Crk.

S_1 145/40 SW (1)

Stretched variolas trend 145°

89-932 o/c 3 5C+5B

Pale grn well fol'd chl pllt, along margin of metabasite

S_1 150/76 SW (2) Strong

CS_2 158/29 SW (1)

S_1/S_2 cren lin. 15→332 (1) on S_1

Metabas f-m.g w/ conspicuous alt'd white plag g P_y cubes to 1cm.

S_1 128/56 NE (2) in fol'd metabasite

S_1 135/55 NE (1)

S_1 126/46 NE (1)

TS

89-933 o/c 3 ~~5B26~~ 3G

PS_2 125/25 SW (2)

L_3 25→250 (1)

Drk grey non calc bi-musc pllt. Lacks shiny S_2 surfaces of typical 5Bo & poor lineation. Somewhat rusty weath. (Sample)

Aug 23 Vangorda Crk w/ Audrey

89-948 o/c 3 5H

Drk grn f.g. amyg. bas; cal, chl, py amygs to 1cm; round to oval; good clvg; prob pillowed

S_1 119/69 NE (2)

" 138/48 NE (2)

Bubbles grade from big to small toward top of pillow → right way up?

89-949 o/c 3 5Bo

S_1 161/64 SW (2)

L_1 (S_1/S_0) 45 → 322 (2)

Silver-grey calc pllt

89-950 o/c 3 5B7 5Bo,

S_2 119/25/SW (2) spaced

S_1 097/45 SW (1)

Lithons 8-15 cm thick

S_2 131/29 SW (1) in 5B7 below 5Bo

Poorly exposed F_1 fold (open)

S_1 148/39 SW (1)

L_1 (S_1/S_0 on S_0) 19 → 331 (1)

89-946 o/c 3 5C/5D; 5Bo; 5B3

S_1 148/88 SW (2)

S_0 171/70 SW (1)

L_1 (S_0/S_1 on S_1) 25 → 333 (1)

Grey calc. pllt along margin of f.g. pale → medium grn metabas (5D [core]; intrusive), w/ aphan. drk grey-green strongly calcareous argillite or argillaceous (tuffaceous?) ls on NE side (sim. to 945)

89-947 o/c 3 5D/C 5B

Grey calc. argill → pllt; strong S_1 weak CS2

S_1 132/81 SW (1) variable

S_2 148/12 SW (1)

L_2 (S_1/S_2 on S_2) 6 → 305 (2)

Adjacent to pale → med. grn, v.f.g. bas or metabasite (5D [core])

Aug 22 solo S. of Grum

89-942 o/c 2 5B?

Brn weathg s(sh?) & drk grn noncalc, carbonaceous pllt; brn weathg rock has numerous unlets.

F_2 fld axis 13 → 293 (1)

L_2 (S_1/S_2) 10 → 282 (1)

Vnlets are calcite, or drk grn mineral w/ white fibrous selvage.

89-943 o/c 2 5H (Menzie Crk)

F.g., medium grn basalt, locally strongly amygdaloidal (3-5 mm, round calcite amygs), possibly pillowed.

Sample

S_1 129/90 (2)

89-944 o/c 2 5H?

F.g. pale grn basalt & drk grey noncalc argillite; fractd

89-945 o/c 2 ~~5B3?~~ 5E

Drk grn gry aphan. lamid ls to calcar. argillite

(Sample)

89-954 o/c 3 5B86

PS_2 160/40 SW (2)

L_3 33 → 305 (2) on S_2

S.O.S. w/ rare calc. bands; may be somewhat carbonaceous (5B628) but more green than black. Lithon structure on other side of road.

SW NE

Further down road becomes more calcareous, less chl, more musc.

PS_2 146/32 SW (2)

89-955 o/c 3 5B08

Strongly lin'd calc. pllt; chl-musc.

PS_2 144/17 SW (2)

L_3 14 → 304 (2)

89-956 o/c 3 5B0

PS_2 165/12 SW (2)

89-957 o/c 3 5B7

Beautifully lam'd/bdd calc. chl pllt. marginal to m.g. metabasite

Aug 24 Swim w/ Fields

5H

89-952 o/c 1 loc. imprecise

Brnish weathg f.g. med. grn amygdal. bas.

Rare S_1 trend 125°. no dip ascertainable

89-953 o/c 3 50/5c??

Pale to med. grn & white banded, fol'd chloritic metabasite; can see 1-2 mm white to yellowish F_3 xtls on most green surfaces, lacks phyllitic appearance generally; otherwise looks lam'd like 5B7.

Lin (??) colour banding trends ~ 280, plunges 4° on flat o/c surface (S_2??)

Slightly further down road is drk grn, v. well fol'd non calc. chl-musc pllt (5B86?)

PS_2 158/50 SW (1)

L_3 (fine crenulns on S_2) 18 → 304 (1) on PS_2 154/39 SW (1)

140

F_2 folds; SW vergence

SW NE

S_2

0.8m

89-951 o/c 3 at crk bend. 5C

Massive drk grn, m.g. diabase, undeformed; poss. small plug or feeder to Menzie Crk bas.

89-967 o/c 3 5A

Blk graphitic pllt; very flat lying; strong L3

89-962 o/c 1 SD3

Intensely brkd dark grey noncalc blk arg.; abund. narrow Qt vns & Cal.

89-963 o/c 1 SD3

Rusty weathg dark grey to blk non calc slate. Strong L3 crenn.

89-964 o/c 2 5A

PS_2 155/30 SW (1)

89-965 o/c 2 5A

S_{o-1} S_2

PS_2 132/36 SW (2)

89-966 o/c 2 5A/36?

PS_2 090/15 S (1) (in "3G")

L_3 2 → 270 (1)

Thin gouge zone (8 cm thick) separating v. graphitic 5A pllt from underlying grey carbonaceous rusty weathg non calc pllt (less graphitic than above)

89-957 (cont)

PS_2 143/4 SW (1)

S_{o-1} 129/84 SW (2)

L_2 (S_{o-1}/S_2 crenln on S_1)

10 → 308 (2)

89-958 o/c 2 (?) 10E

Locally rusty weathg m.g. subporph. to porphyritic Fs-Qt-Bi-Hb phyric dyke or plug. o/c on road; looks in place. Sample Hb also

89-959 o/c 2 SD3

Blk carbs non calc pllt; in zone

89-960 o/c 3 SC/5

Intensely sheared medium green vfg metabasite (chl. pllt); SD[core]

S_1(?)/Shears 174/79 W (1)

brittle, spaced 1-2 cm

S_1 165/90 (1)

89-961 o/c 3 SC/SD

Strongly pllitic chl pllt after metabasite vfg.

Aug 26 Grum/Vanguard w/ Jas

89-973 o/c 2 5A

Blk graphitic pllt

PS2 161/6 SW (1)

" 120/7 SW (2)

89-974 o/c 2 5A+4L

Rusty weathg grey calc pllt; prob pyritic, ser. altd (5B4?)

PS2 131/40 SW (1)

Mixed s/c on haul road 5A; 4L and ser-py altd fold 5C.

89-975 o/c 3 = 84-23 10AB

Granite; w/ weak to moderate C-S fabric; can see sub H

C 107/43 SW (1)

layering reflecting S alignment. Mineral lin^n not seen.

Picture of layering across entire outcrop with non calc pllt (360)

PS2 107/9 SW (2)

89-972 o/c 1 SDs

Blue-grey weathg blk aphan. siliceous arg. or sls; riddled by white qtz veins.

Aug 25 Solo Swim Area

89-968 o/c 1 SDs

Pervasively fractd brown weathg slate; no fresh surfaces.

89-969 o/c 2 SDs

Brn weathg blk slate or arg.; flat-lying clvg; non calc.

89-970 o/c 0 SDs

In dump at end of trench is rusty weathg blk slate; somewhat like 5A; nice crenu lin^n; non calc, papery thin clvg. plates; like Earn Grp. Next trench to west has dump material of blue-grey micritic limestone (mD?)

89-971 o/c 0 SDs

By roadside, blue gray ls; micrite to fine crinoidal packstone; same as in trench

Sample - crinoidal ls

Prob GSC fossil location (Bulk. 208)

89-981 o/c 3 368

S.O.S.

PS2 121/30 SW (2)

89-982 o/c 2 in irrig. ditch 364 4L

Very rusty weathg dk-ser-py-chl altd non calc pllt

(364 → 4L)

PS2 142/36 SW (1)

Later deformation phases (3→5) prominent.

F3p/kink fold axis 35 → 280 (1)

Lithon structs locally preserved

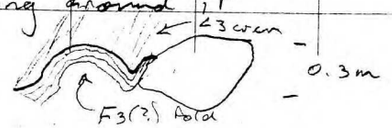
89-983 o/c 3 3608

Rusty weath medium grn-grey non calc pllt

PS2 100/25 SW (1)

L3 2° → 280 (1)

Has ~ 0.3m wide Qt knot w/ F3(?) folding around it



Aug. 27 Solo Vangorda-Dy Bits & pieces 368-360

89-978 o/c 3 = 84-111

British wealthy grey ioncalc. pllt, w/ medium green chloritic bands.

So-1 // PS2 101/30 SW (3)

L3 (fine crem. on S2) 5 → 286 (2)

Weak F4 kinking

L4 (coarse crem) 8 → 079 (1)

89-979 o/c 3 369 / 3680

Pale to medium greenish grey rusty weathering non calc. pllt. s.o.s 978

So-1 // PS2 141/27 SW (1)

Also in places reddish weathg dk brn carbonaceous non calc. pllt.

89-980 o/c 3 368

Rusty weathg medium greenish grey chloritic non calc pllt; So lam's preserved

So-1 // PS2 113/24 SW (2)

L4 (coarse crem.) 9 → 251 (1)

F4 folds in So-1-2 (hard to measure here

C 133/25 SW (2)

Min lin on C

23 → 162 (2)

89-976 o/3 = 84-24 3F

Lam'd pale to drk grey marble (Sample)

Some scattered open-fm structures shown in asymm

PS2 070/20 SE (1)



~ 1m thickness exposed. Host marble is rusty weathg drk grn & grey (potsy) calcsilicate in sharp cont. w/ marble. Mass poorly layered.

89-977 o/c 2 4L

Rusty weathg ser-py altd non calc pllt

S2 151/34 SW (1)

Fold axis 29 → 280 (2)

89-990 o/c 1

Mixture of yellowish weathg ser-altd metabasite (5c4) and blk graphitic pllt (5A)

89-991 o/c 2 5A

Blk graphitic pllt

PS$_2$ 146/21 SW (1)

89-992 o/c 2 5B/C

Well fol'd chl pllt after metabas. F.g., drk to med. grn.

89-993 o/c 2 3G8

Rusty weathg pale green-grey chl pllt; ~ 0.5-1.0 cm lithons; F$_2$ folds.

PS$_2$ 062/23 SE (1)

F$_2$ fold axpl 075/21 SE (1)

PS$_2$ 020/22 SE (0)

So-1/S$_2$ int'sn 5 → 085 (1) (L$_2$)

Aug 28 Solo Smith deposit

89-988 o/c 1 5c (F)

Well fol'd f.g. metabasite, slightly further E on road is silvery grey weathg pale grn-grey calc pllt (5B?) and darker grey weathg non calc carbonac. pllt (5B?)

89-989 o/c 3 5D/5c → 4L

Well fol'd (+ good lithon structure) dark grn f-m.g. metabasite with intense sericitic alteration on N side of o/c, producing v.f.g pale green, yellowish to rusty weathg ser-chl pllt. Latter may in part be altered metapelite (hard to tell)

Samples A fol'd metabas (5B)

B altd metabas? (4L w/ lithon struct.

Also present is very calcareous striped white & drk grn fol'd rock; poss. a fol'd metabas w/ plag → calc & chloritic foln.

PS$_2$ 110/30 SW (0)

prob. disturbed.

89-984 o/c 3 5A

Drk grey noncalc graphitic pllt.

PS$_2$ 164/9 SW (1) No other clvg.

L$_3$ 2 → 282/1)

PS$_2$ 159/20 NE (1) Just W. of first measurement.

PS$_2$ 039/18 SE (R) at far W. end of o/c.

L$_3$ 14 → 099 (1) at far W end of o/c

So ∥ S$_1$ ∥ S$_2$

89-985 o/c 2 3G4 (4L)

Yellow-brn weathg sericitic siliceous pllt.

89-986 o/c 3 4L 3G4

PS$_2$ 134/46 SW (2)

Rusty weathg py-ser altd pllt

89-987 o/c 1 5B$_0$

Dump at end of trench has abund silvery-grey weathg calc musc pllt loose pieces; prob derived in situ.

w/ calcsil. bands and knockers or boudins of schist & calcsil.
Above is very finely foliated vfg. calcsilicate schist, and a thin aplite dyke/sill is intruded along contact.

Photo 14 - angular calcsil. sch. knocker in marble w/ deformed calcsil. bands.

Above calcsil./sch. band is more marble & above that ICD. No cataclasite exposed.

89-998 o/c 3 10 AB

At base of IG is leucocratic granite, w/ weak to moderate C-S fabric; may be batholith or sill (apophysis)..

C 094/34 S (2)
S 125/15 S (1)
Mineral lin^ 33 → 164 (1)

89-999 o/c 3 IG

Marble w/ much more regular layering of calcsil bounds here (less deformed) Why?
PS2 083/20 S (2)

Aug 30 Solo Vanyarda Crk (N of road)/Tie Fault

89-995 o/c 3 ICD

Brnish weathg dirk grey-brn bi-qtz ± garnet ± andal. schist.
PS2 151/7 SW (1)
Many small-scale S-dipping shears w/ offset (normal) on Qtz vns & foln, e.g.
Shear 086/42 S (1)
Shear 088/70 S (1)
Local small (cm) scale drag folds along shears.
PS2 141/18 SW (1)

89-996 o/c 3 IC

S.O.S. but with coarser bi, musc, and garnet + andal.
Foln || Qtz vns to 0.5m thick.
PS2 160/23 SW (1)

89-997 o/c 3 IG

Very strongly deformed marble

89-994 o/c 3 3G8

Rusty weathg pale grn-grey non-calc. pllt
PS2 109/6 SW (2)

89-1007 o/c 3 ICD

M.g. bi-qtz-fs schist w/ small p-blasts, poss. staurolite + garnet.

PS2 021/10 NW (2)

89-1008 o/c 3 ICD

M.g. bi-musc-qtz-felds sch. w/ garnet and poss. staur p-blasts. Minor calcsil.

PS2 022/15 NW (2)

Abund Qtz vn boudins, very lenticular

Lin (2) 15 → 310 (2)

(fairly coarse wrinkle lin^n & biot streaking).

Very rusty weath'g in places

89-1009 o/c 3 ICD

Very evenly fol'd flat-lying rusty weath'g dk to medium grey bi-qt-fs schist w/ abund garn. & andal. in places.

89-1004 o/c 3 ICD

S.O.S. andal not quite as well developed here

PS2 015/10 NW (1)

Fa tight fold axis 7 → 283 (2)

1 0.3 m 1 283

S2

Lenticular Qtz vn boudins ∥ S2.

89-1005 o/c 3 30

PS2 040/18 NW (1)

Pale to medium green-grey and pale grey calcsil. & dk grey bi-musc-qtz schist. No p-blasts evident (changes in bulk comp).

Fa tight fold axis 7 → 358 (1)

(>?) 1 0.1 m 1

PS2 038/15 NW (2)

89-1006 o/c 3 ICD

Back into good schist, rusty weath'g w/ andal p-blasts to 3 cm in clusters

PS2 044/20 NW (1)

89-1000 o/c 3 ICD

M.g. Qtz-bi-musc schist w/ scattered andal. to 3 cm, + smaller garnet, staurolite.

PS2 150/14 SW (2)

" 025/14 NW (2) ⇒ further to South.

89-1001 o/c 3 ID

Brn weath'g andal-rich bi-musc qtz schist, somewhat carbonaceous.

PS2 027/15 NW (2)

Photo 15 - andal schist

Sample

89-1002 o/c 3 IC

Rusty brn weath'g pale grnish grey f.g. qtz-felds schist. No andal. Just higher grade than 3G

PS2 023/8 NW (1)

PS2 155/25 SW (1)

89-1003 o/c 3 ICD

Rusty weath'g laminated qtz-felds schist w/ andal porph'blasts to 2 cm in clusters PS2 037/12 NW (2)

Frosty buttermy

Aug. 31 Solo NW of Dy

≤ 84-156

89-1018 o/c 3 5B7

PS2 082/35 SE (2)

2cm lithons, S asymm.

S1 096/82 S (2)

L2 (S1/S2 on S1) 8 → 097 (1)

89-1019 o/c 3 5B7

PS2 005/14 E (1)

F3 fld axis 12 → 151 (1)

(1.5cm)

89-1020 o/c 2 5B7/5D

Pale grn lam'd calc plt. F2 minor folds climb to SW, NE verging. In cont w/ 5D core(?).

PS2 091/6 N (1)

89-1021 o/c 2 10F

Buff to pinkish brn Qz-Fs ø, p.g. matrix, phenos to 1cm; trends 054°

89-1014 o/c 3 5B7

Nicely lam'd green & white metapelite.

So-1 094/69 S (2)

CS2 121/6 S (1)

L2 (So-1/S2) 2 → 278 (2)

colour banding on S2 ridges (cream) on So-1 1 → 091 (1)

89-1015 o/c 3 5B7

S.O.S.

PS2-0-1 078/11 SE (1)

89-1016 o/c 3 5B7

S.O.S. So-1 115/54 SW (2)

S2 109/5 SW (1)

Lam's to 2cm thick

89-1017 o/c 3 5B7 = 8-

PS2 167/21 NE (1)

S1-0 121/50 NE (2)

L2 (S2/S1-0) 14 → 102 (1)

89-1010 o/c 3 1CD

C-g. ø-blastic bi-qtz-ts schist (and-staur poss. garnet); rusty-golden weathg.

PS2 041/15 NW (2)

89-1011 o/c 3 3D

PS2 059/20 NW (2)

V. rusty strongly fract'd med-grn (diop) & purple-brn (biot) calcsil.

89-1012 o/c 3 3CD

Cm-scale banded amphib. calcsil. Big Qtz vns here.

PS2 (lam's) 082/20 NW (2)

89-1013 o/c 3 3D

Loc. rusty weathg) lam'd dk & medium green calcsilicate; minor schist.

PS2 063/15 NW (1)

Trench/rd. here has very rusty strongly fract'd pyritic calcsil.

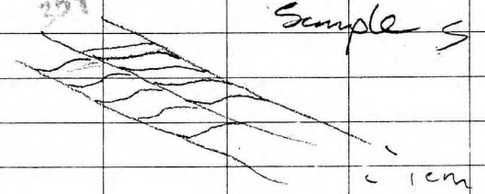
89-1027 o/c 3 1CD

Good shear band development in well fol'd brn weath bi-gt-and-schist. gran. schist

C 093/40 S (2)

S 127/7 NE (1)

N



89-1028 o/c 3 3D

Thinly lam'd brn weath pale grn grey and drk grey calcsil, cut by well fol'd aplite sill; prob very intense S_2 // strain; looks like Tie Fault footwall calcsil.

89-1029 o/c 3 1CD / 3D

el 1610

Brn weath bi-gt schist overlying brn weath lam'd drk grey calcsil w/ banding structure / Photo, looking W.) Good shear banding.

89-1025 o/c 2 3D

VFg purp-grey and (minor) green-grey biot calcsil; lam'd, strongly fract'd.

Sample

Sept 3 Solo Tie Fault

Cool & cloudy

89-1026 o/c 3 3D

Very pale cream and pale grn lam'd calcsil; m-thick horizons in drker brn weath grn grey lam'd calcsil.

89-724 o/c 3 1G

PS_2 089/35 S (2)

Photo 24 Looking W at deformed 1G w/ overlying rusty weathg sheared calcsil.

Photo 25 - ultracat. fabric (loose)

Photo 26 - " " "

Cold

Sept 2 Solo

89-1022 o/c 3 3C

PS_2 091/15 S (1)

V. well fol'd metabas. Cut by small cataclastic shears locally.

89-1023 o/c 3 3D

V. finely lam'd rusty weathg aphanitic dark purplish grey & greenish grey calcsilicate. Fine laminae suggest mylonitic texture? Cream coloured lam.

Sample

PS_2 088/9 S (2)

in places. Very cherty (siliceous) text in places.

89-1024 o/c 3 3D

V. finely lam'd brn weath, pale brn to grey and drk purple grey calcsil & bi-musc pgt.

PS_2 109/11 SW (2)

Fdg kink fld axis 7 → 239 (1)

" " " ax plane 061/78 SE (1)