

673992

104P/12W

Pam Stephen

Field Notes

July 31 - Aug 1

CASAO SILTS

Today, 1983

July 31

Sample #, width, depth, type, colour, texture, % organic  
petrology of bedrock speed

83CAZ 1 6", 4", silt, medium brown, fine-moderate  
some stones, 0% organics, granite, grey rock with  
quartz veining, side of a small pool, slow

83CAZ 2 8", 2", silt, med. brown, moderate, few stones,  
2% organics, granite, grey with quartz veining, some dull black,  
small spring at side, 2m from stream slow - mod. 455m  
From CAZ 1

83CAZ 3 6", 4", silt, medium brown, moderate - coarse,  
stone, 0% organics, grey rock with quartz veining, small  
spring 5m from stream 465m from CAZ 1 moderate speed

83CAZ 4 12", 5", gravelly silt, medium brown, grey, coarse,  
stone, 0% organics, brown rock, some grey, just  
under boulder

83CAZ 5 5", 2", silt, medium brown, moderate, some stones,  
0% organics, grey rock, quartz veins, moderate speed, under  
boulder 500m below CAZ 4 but still 500m from lake, not  
plotted

83CAZ 6 5", 2", silt, dark brown, fine, 10-20% organics,  
grey rock, moderate speed, 68m down stream from CAZ 5,  
30m above stream to the east, in a little rivulet

83CAZ 7 6", 6", silt & fine gravel, medium brown, moderate, some  
stones, 0% organics, grey rock, granite, slow - mod.  
by South tip of southernmost lake

83CAZ 8 4", 3", silt, fine, dark brown, 10% organics,  
granite, few stones, slow, south bank of rivulet to west  
of stream 40m, 60m N of CAZ 7

83CAZ 9 6", 4", gravelly, coarse, med. brown, 10% organic  
granite, quartz veins slow

83CAZ 10 8", 6", fine, some stones, med. brown, 20% organic  
granite quartz veins slow ~~slow~~ rivulet, 100m above lake  
to west of CAZ 9

Today, 1983

July 31

83CAZ 11 6", 6" gravelly, coarse, med. brown 0% organic  
grey rock with lots of quartz slow

83CAZ 12 4", 3" very fine, no stones, dark brown, some  
grey/brown 20% organic, granite, slow 15m E of stream  
(rivulet)

83CAZ 13 several spots at bottom end of an island in the creek,  
all about 4" ~~high~~, 2" deep, gravelly, some silt, 10% organic  
grey rock, granite moderate + fast, med brown

83CAZ 14 5", 2" fine to moderate, few stones, silt, 5% organic  
granite, moderate-fast light brown

- END -

83CAZ 15 6' x 3', gravelly, coarse, med brown, 0%  
organics, grey cliffs either side, quartz veins, fast

83CAZ 16 5', 3', sand, moderate grain, med brown,  
0% organic, grey cliffs lots of quartz veins fast.

83CAZ 17 5", 3", sand moderate to coarse, grey/brown,  
10% organic, grey rock, some quartz veins, wide brown  
bands fast

83CAZ 18 5", 2' gravel, grey/brown, 0% organics,  
grey rock quartz veins fast rivulet, 10m  
E of stream

83CAZ 19 5" 3" fine silt 20% organic, black rusty  
rock to ~~East~~, brown granite to ~~East~~ West fast

83CAZ 20 several holes, gravel, moderate grain, 0% organics  
grey to black rock to East, brown granite to West, med. speed  
Just downstream from dam post 30m

THE NEXT DAY, 1983

Aug 1

83CAZ 21 5", 3" sand, light brown, gritty, 0% organic  
granite, slow

(width, depth, type, colour, texture, %organic, petrology, speed)

At the south side of the bend

83CAZ 22 4", 4", silt, med. brown, very fine,  
30% organic, granite, slow 50m N of CAZ 21

83CAZ 23 5, 3, silt, med brown, fine, 10% organic  
granite, slow, 121 m from start, 10 m N of N fork,  
2.5 m N of S fork

83CAZ 24 5", 4" silt, red/brown, coarse, 20% organic  
granite, red stuff above, slow, 30 m N of stream,  
forks have merged. 178 m from start

83CAZ 25 6", 4" silt, med brown, fine, 20% organic  
granite, moderate to fast

83CAZ 26 6", 2" sand, light-med. brown, coarse,  
5% organic, granite, slow-moderate

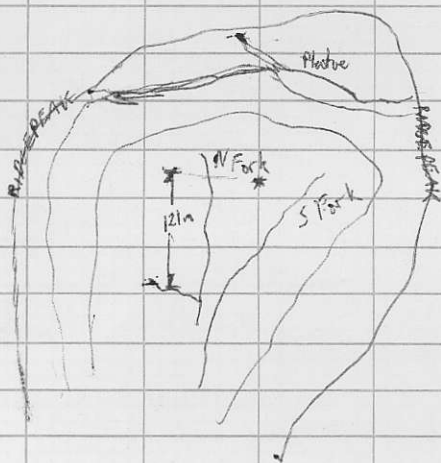
83CAZ 27 4", 4", sand, light brown, coarse,  
0% organic, granite, slow, 10 m S of creek (CAZ 28)  
500 m from CAZ 26

83CAZ 28 5", 3", sand, light brown, coarse,  
10% organic, granite, fast.

83CAZ 29 6" 3", coarse sand and light gravel, light  
brown, 0% organic, granite, moderate - fast

83CAZ 30 6" 3" sand, light brown, medium, 10%  
organic, granite, slow-moderate, 465 m from  
CAZ 29 stream disappears, 50 m E of ~~Blue~~ River

\* topo tied off here



The day Henry left, 1983

Aug 2

83CAZ 31 6", 2", silt, moderate to coarse, med brown, 20% organic, grey rock, rusty granites, med speed

83CAZ 32 6", 2" light gravel, grey brown, coarse, 5% organic, granite, moderate 20m from yesterday's stream

CAZ 31 is where the stream started, lower than where ~~it~~ is shown on the map as having started.

— END —

83CAZ 33 6", 2", silt, fine, med brown, 0% organic, granite, moderate

83CAY 105 279m below CAZ 33

83CAZ 34 5, 3, as above

83CAZ 35 5", 3", silt, med brown, fine, 0% organic granite moderate - slow

83CAZ 36 6", 3", silt, med brown, fine, 10% org. granite, grey rock slow - mod. At 300m, 10m NE of stream

83CAZ 37 4", 4", silt, dark grey, fine, 20% org. granite probably, no rock visible, slow - mod, 475m, 10m E of stream; stream presently runs N.

83CAZ 38 4", 4", silt, med brown, med coarse, 0% org, granite, moderate speed

83CAZ 39 5", 2", silt, med brown, fine, some stones, 5% organic, granite, moderate, at 187m, stream meets big creek or little river

The day after Henry left, 1983 Aug 3

83 CAZ 40 5" 3" silt, moderate, grey brown, 0% organic  
grey volcanics, slow

83 CAZ 41 6" 2" silt, fine, med-dark brown,  
30% organic, granite, volcanics, moderate 429 m,  
2.0 m NW of main stream

83 CAZ 42 4" 4" silt, coarse, light gray/brown,  
0% organic, volcanics, granite, moderate-fast,  
taken under boulder

83 CAZ 43 6" 2" silt, coarse, med brown, 30%  
organic, grey volcanics, moderate, 50 m S of stream  
at m 342

83 CAZ 44, 4" 4" silt + fine gravel, mod-coarse, med-  
brown, 20% organic, grey volcanics, moderate-fast

83 CAZ 45, 4" 4" silt, fine gravel, mod-coarse, med-  
brown, 0% organic, grey volcanics, mod-fast

83 CAZ 46 4" 4" silt, very fine, med brown, 5%  
organic, grey volcanics, granite, moderate  
245 m, 15 m NW

83 CAZ 47, 5" 3" silt, very fine, light brown,  
20% organic, grey volcanics, moderate, 20 m SW  
at m 486

83 CAZ 48, 6" 2" silt, moderate, med brown, 0% organic,  
grey volcanics, moderate

83 CAZ 49, 5" 3" silt, fine, med brown, 0% organic,  
grey volcanic, granite, slow, 15 m NW at m 384

83 CAZ 50, 6" 2" silt, very fine, med brown, 10% organic  
grey volcanic, moderate

The day after that, 1983 Aug 4

83CAZ 51 5", 3", light gravel, coarse, grey/brown,  
0% organics, grey volcanics, moderate.

83CAZ 52 6" 2", light gravel, moderate, grey/brown,  
0% organics, grey volcanics, slow-moderate.

83CAZ 53, 4", 4", silt & light gravel, fine-moderate,  
med brown, 0% organic, grey volcanics, granite,  
moderate.

83CAZ 54, 6", 2", silt & light gravel as above, but  
10% organic

83CAZ 55 As in CAZ 54



CAS

July 30, 1983

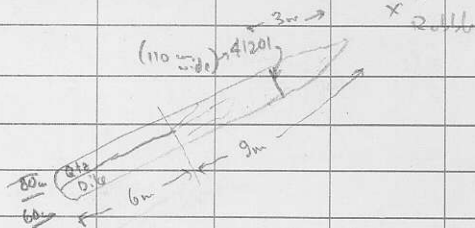
H. AWMACK

1

41201 Dike/Qtz vein cutting ultramatics

Dike is fg. Qtz-bi-fspar, increasingly silicified (and slightly muscovitic and with minor moly) upwards

Qtz vein is milky with slight purple-grey tinge, with no sulphides and almost no limonite. Distinct garlic odor when bashed (vfg arsenopyrite?)

Dike/vein exposed for <sup>15</sup>/~~20~~ m (as 50 m high ridge sticking out of talus (UM etc nearby.)) X 060/805A  
N

Bottom 6m has definite Qtz/dike contact

parallel to the dike walls. Higher up, the Qtz and dike interfingers and the dike is more silicified

Rubble of silicified dike continues uphill from top of outcrop.

Another Qtz vein, averaging 60m wide is ~~seen~~

outcrops sporadically for 70 meters west of a point 19m N of sample 41201. Appears roughly parallel. Minor associated dikes. Moly again near top. As small throughout. X 080/808

41202 is at the bottom (cobble and possibly outcrop continue downhill) outcrop of this second vein, 68 m at 260° from the top outcrop. The quartz is milky to purple-grey with biotite in stringers and pods and with minor coarse moly. Only 5m of silicified, biotitic dike exposed. True width 75m  $\times$  080/90

41203 is 25 m at 350° and 10 m at 080° from 41202. Thin qtz vein/dike. Qtz vein true thickness 20 cm. Milky to purple grey qtz, few vugs, some carbon calcite lined. Minor dissemin moly, minor chlorite(?) on fractures. As small.  $\times$  050/20NW. Extends > 50m downhill. Flanked to north by # 3 m siliceous biotite gr dike  
" " south by VM

41204 50 m south of creek where N chain boundary crosses it. Rhodonte (w. minor rhodocrocite).  $\vee$  siliceous, appears to grade into chert (although qtz fragments(?) are also present in rhodonte. Heavily manganese stained. Minor dissemin epy, especially in greyer (more weathered?) parts. Boulder train (boulders to 50 cm in diam) 20m x 1m (with much porphyry and volcanic float), trending downhill at 340°

41205 5m east of SN4W post, <sup>50m</sup> south of creek. Float (near plus) vein qtz - mottled white to dark grey. Abot malachite, limonite. Probably  $\ll$  1m. Ferricrete float also Geochen. Au, Ag, As, Cu

41206 Qtz vein X 015/90

Traversing vein to 105° 1.5m Qtz, 0.9m pyroclastic  
volcanics, 0.3m Qtz.

Qtz is bull-white, limonitic, with rare fg  
sulphides (pyrr mainly). Calcite variable 0-50% (mod  
<10%) Can be traced 50m S, 20m N (disappears  
into talus to north, ~~not~~ truncated(?) to S.)

4W 4+250N (?) (see notes June 1983 for verification)

JULY 31, 1983

CAS 1

3

Unable to find <sup>corner</sup> post 4W ON. Flagged cross is in granite boulder talus; post probably slid out of ~~site~~ sight into one of the cracks between boulders.

All other posts have been stood up in their flagged locations. Claim lines appear to be short chained ~ 200 meters.

AUG 1, 1983

CAS 1

B3CAZ-101 50m x 20m mod sand/gr/silt Gr br  
1% org channel. Glacial float; just <sup>(sqm)</sup> below limestone  
o/c. Flows towards 045°

B3CAZ-102 25m upstream from junction with main  
creek (on lands B3CAZ-15-20 creek) 1.5m x 30m mod  
silt/sand gr br 0% org. Dry channels. Slate o/c just  
upstream. Much float (porph, volc, slate, (assiar))

Upstream, there is good outcrop exposed for a long  
creek for long distance. It is of slate, argillite, James  
unit 12 (qtz-chl altered rock). There is much float of  
qtz eye-feldspar porphyry, qtz-sericite altered with fg  
pyrite; biit-wentleyi.

83 CA2-103 1.5m x 25m nod grbr 1% org silt/sand  
backwater. Mixed float. Slate o/c. 100m downstream  
from waterfall.

41208 Qtz - feldspar (?) porphyry. Strongly Qtz-ser  
altered. 1% fg dissem pyrite (minor<sup>ly</sup> along  
fractures.). Dike (?) ~30m wide X 000/90 approx  
Geochron Au, As  
Cuts slates, just below waterfall.

03CA2-15 is above waterfall. Rocks above  
mainly slate, some more porphyry dikes

41209 On same creek, just south of N claim line  
Black, argillaceous, sh. phyllitic limestone with 1% fg py along  
myriad fractures or in small (5mm x 2mm) pods. (Could be volcanic  
argillite). Adjacent to porphyry dikes. Outcrops for 50m in  
creek bed. Bedding unknown. Black or white calcite stringers  
throughout; locally appears brecciated. Could be Carlin-type Au.

JAMES LAWTON

CASAU

1983

UNITS TO BE USED

- | UNITS | TO BE USED                                                                                 |
|-------|--------------------------------------------------------------------------------------------|
| 6     | Cassiar batholiths                                                                         |
| 1     | Ultramafics                                                                                |
| 17    | slightly silicified limestone                                                              |
| 5     | slightly silicified argillite                                                              |
| 2     | basalt                                                                                     |
| 8     | biotite feldspar porphyry ( <del>granite</del> )                                           |
| 4     | slightly hornfelsed and silicified andesite                                                |
| 4c    | large porphyroblasts black fine grained matrix - third intrusive                           |
| 21    | <del>chlorite altered disseminated</del><br>disseminated chlorite alteration of a volcanic |
| 9     | chlorite massive chlorite alteration with some carbonate of a fine grained hard volcanic   |
| 11    | slightly chlorite altered diorite                                                          |
| 12    | massive chlorite alteration with black streaks and bands of carbonate                      |
| 29    | disseminated chlorite and carbonate alteration of a hard volcanic                          |

JULY 30 1983

CAS 1

JAMES LAWTON



1 - Ultramafics, serpentinized pyroxene, serpentinite occasional pods of greater or lesser alteration (see sample 1) weathers into round boulders rusty sugar texture.

2 - Basalt, slightly serpentinized - very slightly. Slightly magnetic Much redder weathering than 1

3 - heavily serpentinized, highly fractured ultramafics? magnetic  
↓ classify as 1

2a - basalt, serpentinite along fractures

4 - hornblended, silicified andesite, variable over a short distance, has chlorite in variable amounts, some occasional pink calcite. Sometimes has rusty weathering - boulders not rounded at all

~~5 - Possibly a variation of 4, rather blacker and with more silicification  
→ variation of 4~~

6 - Cassiar batholith granite - resembles white granite

A - granite sills bearing 353° plunging 50° into Ultramafics

JULY 31 1983

(2)

- F - foliated & silicified fudgedup argillite has stretched chert clasts. Jizzes slightly in certain key spots.
- B - foliation striking 059° dipping 5°
- B - biotite feldspar porphyry leucocratic with streaks of biotite, lots of feldspar and a small amount of quartz weathers orangey
- C - occurs as a dyke 10m thick. Minor occurrences as thinner dykes further east towards granite contact

ROCK SAMPLE 41207C

taken in hornfelsed silicified andesite has specks of a white silver mineral in it - ask Henry. Rusty weathering, heavily fractured.

- 4a - more hornfelsed and silicified than 4, has larger crystals in porphyries?
- 4b - looks like a hornfelsed ~~silicified~~ silicified version of B? yes just more ~~FM~~
- 4c - large olivine porphyroblasts fine black matrix traces of chalcopyrite.
- D - possibly a slightly ~~serpentinized~~ chloritized basalt & basalt grading to greenstone?
- 9 - green andesite has quartz veins running through outcrop E. Andesite or basalt that has been chloritized
- 10 - possibly ultramafic
- F - S is overlain by 4

\*



quartz veins 20-40 cm through d/c

\* see over

JULY 31 1983

(3)

11 - Resembles both a volcanic or an  
ultramafic but could also be a  
silicified argillite - ask Henry  
- New decision - its diorite

12 - highly altered with chlorite  
surrounded by carbonates - looks  
like it was originally 11 and  
then was cooked a little.

5 - a slightly silicified <sup>shale</sup>~~slate~~ or  
argillite. Black and soft, pronounced  
foliation

- 9 - chloritized basalt or andesite or whatever
- 6 - In these outcrops you get occasional lens of S and the chlorite alteration varies and there is some serpentinization as well in small amounts

talus sample 83 CAT 1

green grey beige 0% organics moderate surface  
 no veg. fine some small stones

- 11 - In the ofc in this area the quartz veins seem to be plunging to the west at approx  $75^\circ$  and bearing approx  $035^\circ$ . The fracture sets of the surrounding rock also trend this way.

- 14 - not sure what it is - ask Henry  
 Could be an ultramafic has a glassy green mineral in it not too hard, dark green

- ~~15~~ 15 - very granular greenish gray color

- 15 - ofc contains bands of black rock which in some places resembles S

Found a dark here that green to black glassy lump ~~is~~ is not hard. Fused serpentinite?

- 16 - could be just a less altered volcanic
- 17 - light grey weathering silicified limestone? yes
- 18 - foliated

AUGUST 2 1983

(5)

19 - looks like a silicified volcanic  
with some serpentinization can  
probably be classified with 4

20 - another volcanic larger coarser  
crystals

21 - an altered volcanic, looks like a  
green basalt possibly serpentinization

K - ofc in this area tends to vary  
in alteration and does so rapidly and  
over short distances, but generally it is  
similar or very close to 21

- 22 - Fine to medium grained chlorite altered volcanic. chlorite disseminated not massed. some carbonate in mixture
- 23 - much more chlorite altered volcanic black carbonate ~~streak~~ veinlets surround the massed chlorite - possibly related to 11 or 12
- 24 - another chlorite altered volcanic.

Note: maybe I had better just group everything together under chlorite altered, serpentinized ~~slightly~~ and, slightly hornified volcanics

- 25 - ~~is~~ serpentinized, chlorite altered gneiss possibly ultramafics only it doesn't weather the same
- 26 - more chloritized altered black carbonate present gneiss. overlying 5 so maybe related
- L - found a piece of float with large pyrite crystals. Not very near o/c and the o/c that was there had no signs of crystals or disseminated pyrite

ROCK SAMPLE 41210C

taken in 21 hoping to find source of  
L

AUGUST 4 1983

(7)

27 - slightly chloritized volcanic  
with a little bit of carbonate  
quite possibly it is similar to something  
else

11 - slightly chloritized carbonated  
diorite

28 - chloritized volcanic resembles  
9 compare at camp

29 - Another chloritized volcanic, it resembles  
21 compare at camp

30 - ~~Resembles~~ Resembles both 12 and 21  
not sure what to call it yet