018605

GEO. TRAVERSE #1 P. CLARIDGE.

JUNE 25, 1968 FROM: SWANLAKE BASE CAMP

ROCKS COLLECTED: PC-68-1 → PC-68-8.

AERIAL PHOTO NO. A12245-240

1. O.C. (GRANODIORITE) W.S. GREY

F.S. GREY.

BIOTITE 5% AMPHIBOLE ~15%

FELDSPAR 45% QTZ 35%.

MEDIUM GRAINED MASSIVE.

WEATHERS IN ANGULAR BLOCKS,

BOULDER SIZE + SMALLER. PC-68-1

2. O.C. minor folding 206 W.S. GREY, LIMONITE STAINED.

F.S. MED GREY TO BLACK (BANDS)

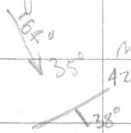
¼" dark bands alternate with lighter colored ½" band. Some mineralization present in darker bands. biotite + minor pyrite (or chalcopyrite?)

2 (cont) Bedding fairly competent 2½" → 8" thick most of o.c. bears rusty stain. 50°/72° (approx 20 ft square area). Quartzite - PC-68-2

Much of displaced quartzite downslope shows evidence of folding

3. o.c. - similar to 2, but rock is more friable, and only a little limonite stain present - no visible minerals identifyable F.S. fairly uniform grey-brown. some minor folding 147°/43° PC-68-3

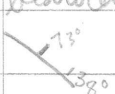
4. same as 3, but some bands of mineral present - two fine grained for identification PC-68-4



minor folding.

47500' same as 4

5.
PC-68-5 - light grey quartzite - interbedded with others at various location.
at 5 - approx 200' section of bedrock - may be disrupted



5+250 attitudes returns to that previously noted.

some limonite stain

6. 152/130 quartzite — no folding readily visible. W.S. med gray, F.S. dark gray. ~~more~~ bedding 1-2" PC-68-6

6+100' rock completely similar to 6 69/102

7. 44/128 quartzite. F.S. med gray, W.S. gray

PC-68-7

8. 70/126 quartzite completely similar to 7.

PC-68-8

GEO. TRAVERSE. JUNE 30, 1968.

PHIL CLARIDGE. FROM SWAN LAKE BASE.

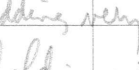
PHOTO # A-12295-10

ROCKS COLLECTED: PC-68-9 →

WEATHER: CLEAR

1. O.C. W.S. dark grey. F.S. blue-grey massive, fine grained (quartzite) quartz veins + veinlets present, no pattern. weathers into angular blocks, boulder size + smaller. some limonite stain on fresh broken surface - very minor

bedding very competent.



minor folding visible

PC-68-9

(2) O.C. same as (1) bedding generally indescernible for this rock type. - minor folding visible at this location. - also jointing planes at 090/85° - not general, but present as a 3'-4' width of approx 1" thick layers. O.C. is continuously Qtzite. between (1)+(2)., but bedding not recognizable, due to weathering + fracturing on many varied attitudes, inconsistently.

(3) O.C. - same Qtzite 11°/110°

(4) O.C - same Qtzite. 52°/139 65°/28°

minor folding - bedding attitude varies.

(5) black slates - somewhat
phyllitic. slaty parting 102°
preceded + succeeded by
quartzites. approx visible
width 10' [PC-68-10]

6. - O.C. - W.S. glassy in places.
sampled to be sure Qtzite has
not changed.

7. O.C. quartzite - lineation present
- probably from folding, but not
sure. 10° 277

8. - black slates as # 5 exposed
approx 20' wide - otherwise
overburden. slaty parting 30 142

9. 85 126 blue-gray ~~black~~ slate - some limonite
stain on parting planes.
microcorrugation 10° 292° [PC-68-12]

10 O.C. blue gray slate. ~~→ 115°~~

11. O.C. W.S. dark gray F.S. brown, with phyllitic sheen on schistose surfaces. quartz grains visible on F.S. - approx. sand size foliated on W.S. ← → 100°

PC-68-13 small O.C.

12 O.C. - quartzite - massive, no bedding apparent PC-68-14
very small O.C. - possibly out of place

13. O.C. ~~→ 120~~ phyllite - same as # 11, but more fissile.
PC-68-15

14. O.C. ~~→ 70~~ / ~~120~~ see PC-68-16
could be a foliated quartzite

15. O.C. blue grey slate. [75 / 100]

minor folding [72 / 80]

some limonite stain present.

PC-68-17 some minor quartz veins in general area of 15. 75+1000 – same.

16. slate, with quartz stringers along planes of parting. PC-68-18

[110]

17 apparently bedding continuous with 16, but apparent rock change. PC-68-19 must be a slight variation in bedding.

18. ~~110~~ large ~~small~~ O.C – see PC-68-20

19. slate PC-68-21 [85 / 110]

20 phyllite PC-68-22 [32 / 45]

GEO TRAVERSE. JULY 5, 1968.

P. CLARIDGE from SWAN LAKE BASE-CAMP.

ARIAL PHOTO NO A-12344-444.

RX COLLECTED: PC-68-23 →

WEATHER - RAIN.

STN 1. - AT CAIRN. ELEV. 5219. (CGS)

small O.C. W.S. GRAY TO BRN.

F.S. GREY, GREY-BLUE TO BLK.

F. GRN., NO VIS. MIN. SLATY - very fissile slaty parting. 40 / 155 [PC-68-23]

STN 2. - Small O.C. - similar to 1. part. 62 / 165 slaty minor quartz veins - bearing limonite stain + apparently containing green mineral EPIDOTE - could be just a stain - sampled. Some more competent members - appearing to be conglomerate containing visible qtz (?) grains + similar size darker granule. [PC-68-24] quartzite.

GEO TRAVERSE JULY 6, 1968

CONTINUED FROM JULY 5, 1968. ON

PHOTO NO. A12344-444

STN 2+200' East; small o.c. of intrusive rock PC-68-25 Visible minerals: biotite 10% qtz 50% Fspar: 40%. (granodiorite)

STN 3. 66/160 blue grey slate o.c. (small) limonite staining on parting plane PC-68-26

stn 4 42/152 slate, grey-blue on F.S. W.S. grey + brn very minor quartz-calcite veins. otherwise similar to stn 3.

stn 5 23°/120 PC-68-27 + PC-68-28 interbedded (grey blue to black slate with minor qtz-calcite veins + some epidote in qtz) and grey-brn weathering qtzite - foliated.

Between stns 4+5, there are 2 small qtz veins indicated by surface rubble of some - contain some graphite + epidote, limonite stain.

stn 6 — 30 / 156 — much weathered grey slate interbedded with gray-brn weathering dirty limestone

0.1C PC-68-29

42 / 164

6+100' limestone as PC-68-29 (members)

" bedding more competent

stn. 7, 41 / 66 limestone as above PC-68-30

7+50' limestone as above.

stn 8 (7+125') blue gray slate. 34 / 155

stn 9. blue grey slate as stn 8. 46 / 153

qtz vein - 8" - limonite stain - seems to correspond to bedding

9+150' blue grey slate as #9 42 / 120

one 3" band of dirty limestone

Stn 10. small o.c. W.S. grey to brn. 36/80 parts to layers: 1/4" – 1/2" F.S. dark blue-grey. one 8" qtz-carbonate vein present PC-68-31 fizzes with dil HCl.

Stn 11. small o.c. blue grey slate. 29/17

Stn 12. o.c. black slate (blue grey to black) folded. 160°/18° minor qtz veins apparently corresponding to bedding.

Stn 13. o.c. black slate - parting planes folded as above. dominant attitude: 22/160 46 PC-68-32

Stn 14. O.C approx 125' long. interbedded black slate + chert, with quartz veins conforming to bedding. folded 52° → 17° slate bear some limonite stain (chert also) chert is black, has minor quartz veinlets across bedding [PC-68-33]

Stn 15. chert as at #14, but no folding apparent + slaty members do not outcrop. 32°

Stn 16. 24 / 61 black slate, small O.C.

Stn 17. small O.C W.S. black F.S. black. fine grained, no vis. min. bedding 1cm → 3cm thick 48. / 16 minor folding 52° → 37° [PC-68-34]

Stn 18. O.C approx 140' long

same rock as stn 17

but no evident folding.

limonite stain, chunky weathering

- clasty argillite.

PC-68-35

GEO TRAVERSE JULY 7, 1968

PHIL CLARIDGE from SWAN LAKE BASE.

AIR PHOTO NO: A12339-324, 326.

RX COLLECTED: PC-68-36→

stn 1a. 1. Interbedded: a. very fissile black ~~phyllite~~ slate.

lineation 

PC-68-36

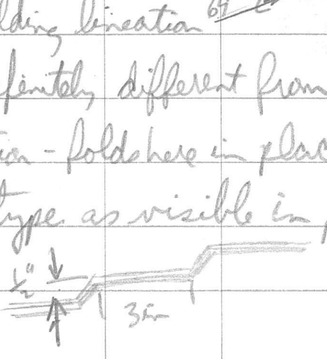
34 89

b. foliated quartzites, with quartz veins (nonconforming) PC-68-37

c. Schist, foliated but less fissile than ~~phyllite~~ slate — showing same lineation. PC-68-38

Minor folding readily apparent in displaced float, but not in place.

1 + 300' folding lineation 69° 34° present, but definitely different from former lineation — folds here in place, of same type as visible in float at 1



(11) (12)

+elongated grains

Stn 2. W.S. pale brn to grey

1a. F.S. brn to beige - quartz veins present, conformin + non-conformin

foliated 

quartzite PC-68-39 shows 2 types of lineations present. (see stn 1+300')

- Between stn 2 + stn 3. attitudes are quite disrupted + several qtz veins are present ~ 1' thick, with varying attitudes,

Stn 3. o.c. to Fig. (qtzite) med grey on F.S,

1a. weathering grey to light brn. Foliated, + tends to weather into angular chunks, with some tendency to cleave on foliations.

Folded. 

PC-68-40

(jointing?) planes 

Interbedded are some black phyllitic slate.

stn 4. qtzite as at 3, but not
foliated – massive, fine to med
grained, some limonite stain.
black phyllitic slate present
(1a) as talus only. PC-68-41

stn 5. – black slate. 58 50°

stn 6 – qtzite – F.S grey. W.S. grey + 36° 100
limonite stain – planes of foliation
PC-68-42

stn 7. qtzite as at stn 6 minor 51 104
qtz. veins – foliated 33°
minor folding 32

stn 8 42 40 qtz grains up to 0.5 cm
(1a) in length. 31 332. W.S grey with
outstanding qtz grains F.S grey
to light brn. Conforming qtz vein
limonite stain shows folding lineation similar to
that of grn elongation. PC-68-43

stn 9. rock similar to that at 8

34/145 lineation of minor folding + grain elongation 12°/255°

stn 10. O.C. - W.S. grey F.S. grey-brown with small rust spots + visible qtz grains ~0.25 cm. long. foliated but not fissile 39/167

PC-68-44 minor folding lineation 20/345

stn 11 same rock as at 8, 9, 10.. 10/347

11+250' same as 11 12/347

stn 12. 31/134 same rock.

stn 13 24/234 elongation of grains. same rock type. jointing plane 57/62° some qtz veins present.

stn 14. 22/331 same as 13.

stn 15 PC-68-45 20/318 elongation of grains. PC-68-46

GEOLOGY TRAVERSE JULY 8/68.

PHIL CLARIDGE FROM SWAN LAKE BASE.

PHOTO NO. A12344-343

RX. COLLECTED. PC-68-47→

Stn 1. O.C. WS grey to blk F.S. blue-grey to blk
grn size not visible. no vis min.
massive, blocky weathering.
thickness of members ≈ 1cm → 20 cm
attitudes varied, folding present
41° 282° general bedding 57° 30°
PC-68-47 some minor qtz veins
(chert)

Stn 2 O.C. similar to 1. but interbedded
with black slate 33 270° 40° 130°

2+300' 117 59° O.C. blue-grey slate.
minor limonite stain PC-68-48

Stn 3 (2+500') same as 2+300' 130° 45°

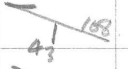
stn 4. T 107° / 37 blue-grey slates, but more fissile than sample previously taken. at stn 2+300' [PC-68-49] micro-lineation - see sample 02 ← 250° minor qtzite interbedded

stn 5. T 98° / 55° rusty weathering, black slate very fissile, no vis. min.

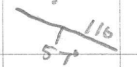
stn 6. similar to stn 5 - less limonite stain similar attitude

stn 7. rusty o/c. [PC-68-50] probably manganese-purple mineral + stain. rock is dirt, with veinlets of well ~~developed~~ developed qtz Xtals approx. ¼" long - rusty zone approx 15 ft square. - prominently rusty, although approx 200' talus to north-west is generally rusty.

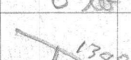
stn 8. grey-blue slate - fissility & rx increases generally from 7→8.



PC-68-51

stn 9. 

rx tend to cherty argillite + black bedded chert from 8 to 9. PC-68-52

stn 10. 

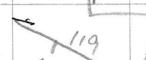
cherty argillite - black.

PC-68-53

stn 11 

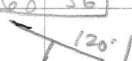
grey + black slate.

PC-68-54

stn 12 

black slate: at point of sample, contact downslope with very rusty quartz, quartzite, + phyllite.

PC-68-55 PC-68-56

stn 13. grey-green slate 

PC-68-57
bearing manganese stain

stn 14. dirty argillite & chert PC-68-58
massive, weathered into blocks.
bedding, attitudes, not prominent.

14+100' similar rock to 14. 35/150

stn 15. 1/50 120 dirty argillite PC-68-59
and chert, dark grey and green
PC-68-60 occasionally, bearing
limonite stain (occasional pyrite)

stn 16. dirty argillite 4½/140
PC-68-61

stn 17. black slate. 1/29 138. approx 200'
band - then dirty argillite

stn 18. 1/2 130 grey-green f. surface. - fairly
fissile - could probably be called
a slate. PC-68-62

stn 19 rock similar to 18. 1/21 124

stn 20. black slate 35/135

Stn 21 rocks similar to blue-gray slate, but less fissile, blocky weathering, cherty argillite.

21+300' - black slate again ← 95 / 35

Stn 22. 100 / 60 black cherty argillite.

PC-68-63

GEO. TRAVERSE JULY 11, 1968

P. CLARIDGE

PHOTO NO A12339-332, A12295-15.

RX. COLLECTED: PC-68-64 →

stn 1. 3c ← 64 / 116° W.S. grey, limonite stained. F.S. grey-green. somewhat phyllitic on cleavages. very fine grained, ca gr. size not vis. no vis min very fissile PC-68-64 (grey-green slate).

stn 2. 3a w vis. oc still in place - all weathered - w.s. blue grey, f.s. blk, graphitic - very fissile, slatey. Black carbonaceous slate.

3a stn 3. as at stn 2, but with some minor clasty beds. - black bedded chert / 92 / 106

stn 4. 3c — green or grey-grn. slate — PC-68-65 — 43/112

stn 5. 3c — grey ~~black~~ slate, laminite stained on W.S. — PC-68-66 — 78/93

stn 6. 3c — similar to stn 4. — 100

stn 7. 3c — blue grey – black slate — PC-68-67 — laminite stain on W.S. — 126/64

stn 8. 3a — black clusty argillite — PC-68-68 — 89/112 — ~~bedded~~ members 2-7cm thick, rusty weathers, slightly fissile but blocky weathering appears 20° O.C. then tending to black slate up to stn 9.

stn 9. 3a — black slate – very fissile — PC-68-69 — laminite stain on W.S. — 101/87

stn 10 — 67/60 — PC-68-70 and PC-68-71

(?)

W.S. med grey. F.S. mottled, quartz + darker material med. grained - blocky weathering

PC-68-72 shows size of larger sediments present - chert pebble conglomerate - minor qtz veins

stn 11. — 49/30 — ix similar to those at stn 10 attitudes somewhat disrupted

(?)

3a
stn 12 — 43/30 — black chert + cherty arg.

stn 13. — black cherty arg - o.c. too disrupted to check attitudes.

3a

PC-68-73

3a
stn 14. — black bedded chert. 106°/81°

stn 15. 3a — similar to 14 — 132/65

stn 16. — similar to 14, with qtz veinlets + some limonite stain — 106° — N 50° E

3a

Stn 17 black slate, interbedded with
3a minor qtzite - blue grey on
F.S, with rust spots, grey + 70. <128
limonite stain on W.S

GEO TRAVERSE JULY 12, 1968 and JULY 13, 1968.
PHIL CLARIDGE FROM CAMP 3.

PHOTO NO. A12295-15.

RX. COLLECTED PC-68-74 →

stn 1. 47°/18° 26°/147° O.C. W.S. occasionally light grey, mostly dark grey, brown limonite stain. F.S. grey with limonite stain, occasionally banded, with alternate light col. layers. ~0.5 cm grain size not vis. – no vis. min. small o.c. weathers into angular chunks. PC-68-74, PC-68-75

3f

GRAY BEDDED CHERT

stn 2. similar to previous, some limonite stain, minor quartz veinlet, non-conforming 40/63

3f

stn 3. similar to previous at stn 2.
3f.
o.c small, too disrupted to measure attitude

~~stn 4.~~ ~~113 / 78~~ ~~similar to previous, but~~
DISRUPTED
~~no limonite stain or qtz veinlets~~

stn 4. 3f. similar to stn 2 — 37 / 105

stn 5. slates: green, purple, grey, interbedded
3g.
green ≈ 30' exposed across strike.
purple ≈ 30' " " "
grey ≈ 10' " " "
overall length ~100'
all are finegrained, very fissile with fresh + weathered surfaces of corresponding colors, no vis. min.
17° / 337° — 51°01 / 320°

PC-68-76, 77, 78

stn 6. grey-green slates — 37 / 114 — PC-68-79
3c

stn 7. talus of grey chert, as noted
3f. previously.

stn 8 green-purple slate, as at
3g stn 5. 125/10

stn 9. grey bedded chert as previously
3f 40/90 qtz veinlets present
and limonite stained.

stn 10 230 minor folding. grey chert as
3f previous at stn 9 120/80

stn 11 80/14 grey chert as at stn 9.
3f.

GEO. TRAVERSE. JULY 14, 1968.

PHIL CLARIDGE - CAMP 3.

AIR PHOTO NO. A 12295-16.

RX COLLECTED: PC-68-80 →

stn 1. 17 / 70 W.S. grey, limonite stained F.S. blue-grey, some limonite stain.

3f. gr. size not vis. no vis min. blocky + angular weathering, members 1cm — 15cm thick, competent.

PC-68-80 grey bedded chert.

stn 2. O.C. shows for ~ 50' down northerly slope W.S. med grey, light brn., F.S. blue grey, brn, some brn. stain. some parting present, possibly a shistosity 39 / 68°

Pc-68-81, 2, 3

GEO. TRAVERSE. JULY 15, 1968.

PHIL CLARIDGE CAMP #3

AIR PHOTO No. A12295-16.

~~RX. COLLECTED: PC-68-84~~ →

NIL. - NO OUTCROP LOCATED.

GEO. TRAVERSE JULY 18, 1968.

PHIL CLARIDGE from SWAN LAKE BASE.

PHOTO NO. A12333-47

RX. COLLECTED PC-68-84 →

STN #1. O.C. - massive, cracked by weathering, but no apparent

3a attitude. W.S. black to dk. grey, with minor limonite stain

F.S. black no vis. min.

weathers into blocky pieces (blackchert) PC-68-84

also present as talus - blackslate PC-68-85

stn #2 48/107 similar rx to previous, but bedded here. cherty members approx 7cm thick.

10ft away N. 25/137 65

20ft north 85/114 and 140° 70° on nose of fold.

stn 2 + 200' 56/110 similar rx.
ie black chert, minor black slate.
stn 2 + 300' similar rx. 62/127
stn 3. 32/78. similar rx., but more slaty, less chert. not as fissile as good slate should be.
see PC-68-86
stn 4. 75/130 similar o.c to stn 3.
definitely black (carbonaceous) unit 3a
very f. gr., weathering blue grey
some members fairly cherty, some limonite stain present.
stn 5. 98/70 black chert, as previously
stn 6 126/46 similar rx to previous.
good eg of black chert PC-68-87
stn 7. black chert as previously. 117/64

stn 8. ~~97/60~~ similar rx as previous

stn 9. black chert as previously ~~but massive~~ folded 132 S 39°

approx attitude 70/50

~~65°/115~~

stn 10 O.C. somewhat similar to previous rx, but not cherty, & not fissile as a slate — has competent beds 2–3cm thick. W.S grey, lim. stained. F.S black

PC-68-88

stn 11. black chert talus

stn 12 black cherty arg. talus PC-68-89

stn 13 117/57 black slate as previously

13 + 300' 127/28 similar to 13.

stn 14 122/21 black slate as previously. 130 S 02

stn 15. talus of blue-grey slate

stn 16. — 124 / 31, 128° → 80 blue grey or black slate O.C., limonite stains on F.S.

Pc-68-90

stn 17. — 115 blue grey to black slate, minor limonite stain on F.S.

Pc-68-91

Geology - Geochem Traverse July 19, 1968.

Phil Claridge from Swan Lake Base.

see geochem overlay this date.

Starting at lake PC-68-212, etc.

Float around S-side lake mainly green to grey slates, minor qtz + minor black chert.

Float along creek is green to grey slates, grey + black chert, minor qtz, qtzite (some rusty)

At PC-68-242 o.c. black slates (sampled) limonite stained. 70 124

Slates in creek here also, and intrusives as well

Geology Geochem Traverse July 20/68.
Phil Claridge - Swan Lake Base Camp
- geochem Samples collected PC-68-250 → 292
ex: mainly black chert, + grey chert
as O.C. - float mainly chert,
minor slate, qtzite (rare), quartz,
+ some intrusives.

GEOLOGY TRAVERSE JULY 22, 1968.

PHIL CLARIDGE CAMP AT LAKE, 4500' ELEV

SHEET 1 OF N-5 PHOTO NO. A12186-415

RX COLLECTED: PC-68-92→

STN #1. NO POSITIVE O.C. VISIBLE.

CONTINUOUS EXPOSURE OF WEATHERED RX. W.S. WHITE TO GRAY, SHOWING QTZ XTALS, FSPAR, MINOR BIOTITE

(11a) F.S. WHITE, (QTZ, FSPAR) AND BLACK, (BIOTITE) VIS MIN: QTZ, 45%. FSPAR, 35% BIOTITE 15% AMPHIBOLE 5% BLOCKY WEATHERING, BOULDER SIZE + SMALLER, MASSIVE. MED TO LG GRAINED. GRANODIORITE. PC-68-92

Stn 2. similar to previous but seems to be finer grained rx here. Also noted, granodiorite contains chunks cobble to boulder size of fine grained rx. approx 0.5%. PC-68-93

Stn 2 cont. - another minor occuring rk type

is PC-68-94 - some kind of ~~[illegible]~~ phyllite possibly.

w.s. - med grey to light brn. F.S. grey

to med brn, with small dark areas, of

harder material. Foliated (wavy in x section)

+ containing minor pyrite. FLOAT ONLY.

Stn 3 similar to previous (granodiorite.)

Stn 4 - no - O.C., but some occurrence,

approx 70% in this area, of float,

is of types PC-68-95, 6, 7, 8

~~Stn 5~~ -

Stn 4>5 - dominant float ~~O.C.~~ granodiorite.

Stn 5 - dominant float [PC-68-99] - small area - float sufficient to assume o.c under slab present. Rk is slaty, but not very fissile. w.s dk gray, F.s black somewhat phyllitic minor pyrite.

Stn 6 - dominant float [PC-68-100] small area - float sufficient to assume o.c w.s dk gray to blk, minor limonite stain F.s dk gray, showing small chunks of light gray 0.3 mm long.

Stn 7. o.c. [PC-68-101] ≈, interbedded with [PC-68-102] 85 / 129

[PC-68-101] is similar to [PC-68-100]

[PC-68-102] w.s light gray, F.s med gray, no vis min. quartz shows on w.s (quartzite)

stn 8. O.C similar to stn 7.

stn 9. O.C. massive. PC-68-103
similar to PC-68-102, but slightly darker on F.S.
(quartzite.)

stn 10. O.C. massive PC-68-104
shows light banding on F.S. which = blue-gray. W.S is light grey. no vis min, except qtz on W.S. (quartzite)

GEOLOGY TRAVERSE JULY 23/68

PHIL CLARIDGE CAMP #4

AIR PHOTO NO. A12186-416.

Rx COLLECTED PC-68-105 →

stn 1. [PC-68-105] massive
w.s. light grey, F.S. dark grey, show slight tendency to segregate into very narrow bands of darker + lighter colored material vis. min. quartz on w.s. (quartzite)

stn 2 similar to previous, but w.s show slight foliation 1/28

stn 3. similar to previous.

GEO. TRAVERSE JULY 24/68.

PHIL CLARIDGE CAMP #4.

PHOTO NO A12186-416.

RX COLLECTED PC-68-106→

continued from July 23/68.

stn 4. O.C (small) similar to previous

stn 5. small O.C. W.S. dark grey fresh surface blue grey. minor phyllitic sheen on slatey partings fairly fissile. 25/097 135/67

PC-68-106

stn 6. 124/36 small O.C. similar to previous, but more finely laminated minor limonite stain on W.S.

PC-68-107

stn 7. small o.c similar to previous, but less fissile + bearing minor silvery colored mineral PC-68-108 132/68

stn 8. ~~137~~ small o.c similar to previous but less fissile. Limonite stain on W.S., F.S. light grey. PC-68-109 fine grained, no vis min.

stn 9 small o.c W.S. white to grey F.S. mottled white, brown, grey. med grained quartzite, with minor qtz veins. PC-68-110

GEOLOGY TRAVERSE. JULY 26/68.

PHIL CLARIDGE CAMP #5

PHOTO NO. A 12282-95

RX. COLLECTED: PC-68-111 →

stn 1. small o.c massive rk.
w.s. grey, showing qtz grains.
F.s. grey to light brn.
grn. size med - only vis min
is qtz. - minor limonite stain. also minor calcite grains.
PC-68-111 quartzite

stn 2. O.C. small - similar to
previous - slightly calcareous.

stn 3. small o.c. 134/41 similar
rk to previous, but finer grained
- small qtz veins. / slightly calcareous quartzite PC-68-112

stn 4. small o.c. 130/51 similar to
previous PC-68-113 slightly
calcareous qtzite

stn 5. similar to previous ↗ 132 / 32
slightly larger grained &
F.S. somewhat darker
limonite stain on fracture
surfaces. slightly calcareous qtzite.
PC-68-114

stn 6. similar to previous, only
very fine grained, no limonite
stain PC-68-115 non calcareous

stn 7. small o.c similar to previous,
fine to med grained. minor
limonite spots on F.S. ↗ 120 / 63

stn 8. similar to previous slightly calcareous PC-68-116 ↗ 127

stn 9. similar to previous slightly calcareous ↗ 156

stn 10. similar to previous PC-68-117
minor calcite on W.S., minor
pyrite - occasionally slaty PC-68-118

↗ 137 / 38. ↘ 155 S 13°

GEOLOGY TRAVERSE JULY 28/68.

PHIL CLARIDGE CAMP #5

PHOTO NO A-12282-91

RX COLLECTED PC-68-119→

sth 1. large o.c. limestone - w.s. grey to buff. F.s. white. crystalline, Xtals are fine to 3 mm to 1 cm (occasionally) in size. strike approx 125° weathers to crystal size, as sand., or in chunks, moderately rounded by weathering crossed by diorite dyke, striking approx 270°

PC-68-119 diorite for lot sample see GS-68-

Stn 2. O.C. W.S. grey, limonite stained, qtzite
F.S. light grey to brn. [PC-68-120]
also diorite occurs here [PC-68-121]
also gossanized area sampled 42 140
[PC-68-122] (bag) diorite
quartzite weathers into blocks,
controlled by: 67 26′ 72° 134 15° 136

2+400′ 41° 132

Stn 3. O.C. W.S. + limonite grey F.S. grey to
light brn. - no vis min.
weathers into angular chunks
massive [PC-68-123] qtzite

Stn 4. O.C small W.S. grey + limonite
F.S. dark blue - grey [PC-68-124]
finegrained no vis min. massive.
also here much rusty float.

stn 5. similar to previous. 76/132
interbedded with slatey qtz.
see PC-68-125, 6

stn 6. similar to previous w.s lt. grey.
with lenticular F.s. med grey
to light brn. minor qtz.
veins present. massive.

stn 7. similar to previous 75/48

stn 8. similar to previous 170

stn 9. qtzite as previous interbedded
with grey + grn slate only 2' wide 43/134
000/315°
PC-68-127, 8

stn 10. similar to previous, but massive
qtzite only - no slate.

GEO. TRAVERSE AUGUST 1/68.

PHIL CLARIDGE CAMP #6.

PHOTO NO A 12284-6.

RX COLLECTED PC-68-129 →

stn 1, 46 ~~138~~ small o.c. - on contact of dirty limestone (south) and quartzite (north) qtzite is slightly calcareous here.

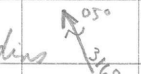
qtzite is med grey on W.S., blue-grey on F.S. (qtz vis). + has minor lim. stain on W.S. also PC-68-129

limestone is grey-brown w.s, grey-black on F.S, showing calcite veins. PC-68-130

contact is clear on PC-68-130

Stn 2c small o.c. similar to previous - clear here that calcareous qtzite, + dirty grey limestone are interbedded,

calcite bandings



Stn 3 

small o.c. PC-68-132

w.s. med to dk grey F.S med grey also showing on F. + w. ss, is layers of green, probably indicating bedding, but this feature could not be located in place to measure same.

Stn 4. 

alternate layers of qtzite + dark grey lst. layers several inches to 3' thick approx 1/3 to 1/2 lst PC-68-133 shows qtzite type - fine to med grained qtz + calcite veins present

stn 5. qtzite more fine grained than that seen previously W.S. grey. F.S. grey to brn. no visible min, but minor qtz veins present. massive.

PC-68-134

stn 6. folded lst.

O.C. here shows approx 10' across bedding of lst, with approx same thickness of qtzite over top. ie layers alternate, but are thicker here. lst is very folded. minor magnitude of folding PC-68-135 qtzite similar to PC-68-133

GEO. TRAVERSE AUGUST 3, 1968

PHIL CLARIDGE CAMP # 6.

PHOTO NO. A-12282-6

RX. COLLECTED PC-68-136 →

SAME AREA, ETC. AS. AUGUST 1/68.

ie - continued. - stations follow

that sequence.

stn 6: o.c. here is interbedded qtzite

+ (chloritic shist)? PC-68-136, 7

qtzite layers vary from 2 → 30 cm,

fairly competent. shist layers

vary from 2 → 7 cm

qtzite blue grey to lite brn on F.S,

med grey on W.S. fine grained, no

vis min shist is grey-green on

W.S green on F.S. O.C is folded 55 06

shistosity present 28° 52

stn 6 cont. - outcrop tends to approx 90% qtzite

stn 7. o.c. qtzite fairly similar to previous but massive + bearing limonite spots on F.S.

PC-68-138

stn 8. small o.c qtzite similar to previous massive.

stn 9. o.c. qtzite 34° ↘ 13E similar to previous, but having qtz grains up to 5 mm in diameter, laminated in layers approx 2-3 cm thick + minor folding 99° ↗ 31/50 PC-68-139

stn 10. 60. 193 similar to previous
fault line here at 310°
qtz veins present - nonconforming

stn 11 similar to previous - massive
some qtz veins present - slightly rusty

stn 12. similar to previous - laminated
as previously. 40. 155

stn 13 similar to previous 40 160
med grained qtzite w.s lite grey
minor limonite stain - non conforming
qtz veins - no visible

stn 14 o.c qtzite similar to previous
PC-68-140

stn 15. o.c. qtzite similar to previous
massive

GEO TRAVERSE AUG. 4/68

PHIL CLARIDGE CAMP 7.

PHOTO NO. A 12203-439

RX COLLECTED PC-68-141 →

stn 1. O.C. is layered 62/65 thickness ≥ 2"

PC-68-141. some limonite stain.

W.S. med grey. F.S. mottled grey with black & wht. diorite

stn 2 O.C (small) folded, rusty.

layered at 25/27 folded 141 S 42°

layers ≥ 4" PC-68-142

112° S 32°

2-3 ft similar to previous

stn 3. similar to station 1. massive & broken into large blocks on surface of o.c. - disrupted - attitude not taken.

stn 4. similar to previous 110° S 47°.

PC-68-143

stn 5. limestone - interbedded with qtzite, many qtz veins (clean?) very disrupted folded 75° 90° limestone PC-68-144

qtz. very mineralized - gem type - name unknown.

TOURMALINE in qtz. limestone is exposed for approx 300' - very disrupted

Stn 6. ← 90 / 49 → ~~PC68-145~~. same as PC68-141 o.c. layered approx 3" thick.

GEOLOGY TRAVERSE AUG. 5/68.

PHIL CLARIDGE CAMP 7 MT. ARMSTRONG.

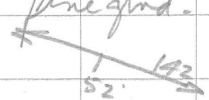
PHOTO NO. A12203-440.

RX. COLLECTED: PC-68-145 →

Stn 1. O.C. W.S. brn to grey. F.S. grey to blue grey. fine grained. no vis min, except qtz on W.S. F.S. appears slightly banded - narrow dark grey to black lines on grey matrix. some limonite stain on fracture planes. granite contact approx 500' S. of here. see K.H. traverse this date. PC-68-145

note similar to PC-68-191, 3

~~massive O.C.~~

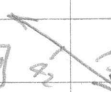
Stn 2. W.S. light grey F.S med grey.
silky sheen PC-68-146
fine grnd. no vis min.


layered approx.
1-3" thick.

Stn 2+500' 

similar to previous.

Stn 2+700' similar to previous and grey qtzite PC-68-147 very twisted + folded - no definite pattern or general axis.

Stn 3. similar to PC-68-147 

Stn 3+00' O.C. W.S med grey F.S. black. some limonite stain. f grained.
PC-68-148 

stn 4. interbedded light grey qtzite with somewhat slaty ~~xx~~ mostly qtzite [PC-68-149], ~~fast~~ in competent beds approx 1-3' thick. [PC-68-150] bears some possible mineral, approx 40% of o.c. made up of this.

stn 5. similar to previous

stn 6. 

change in attitude noted, o.c. here is somewhat phyllitic [PC-68-151] 

(minor foldings) limonite stained also

Stn 7. 19° 324 rocks quite limonite stained here. PC-68-152

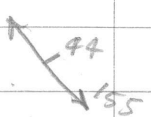
Stn 8. similar to last previous, but no limonite stain here PC-68-153 18° 316

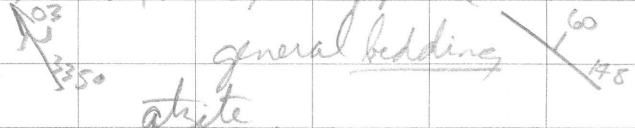
Stn 9. similar to previous 17° 336°

Stn 10. similar to previous 05° 337 PC-68-154

Stn 11 similar to previous 16° 332 PC-68-155 some limonite stain in this immediate vicinity.

stn 12. qtzites here mineralized
PC-68-156, 7, 8, 9

stn 13 similar to stn 10. 

stn 14. similar to stn 3. fold visible here for approx 100'


qtzite.

stn 15. on contact at E. end of small lake. granodiorite/qtzite.
PC-68-160, 161 both granite
qtzite is similar to that at stn 1. granite massive.

105N5
N
A12282
355
359
363
97
A-12282
93
89
261
A12106
258
1
A 12282
5
8
A 12230
372
377
393
A-12230
388
98
A-12282
103
20
A-12328
209
180
12819
408
A12186
412
415
417
215
407
A-12186
401
398
A-12328
300
A-12186
304