018577

7300' - 9B-0004

9300 - 1g otc. E side of creek - and up hill 100 yds. fol. fold - mica gtzite

10,400 - otc. do last - mica micaceous E bnk.

10,475 - 9B0005

13,200 - hit main creek flowing W

9B-0006 - 100' upstream of mine creek.

9B0007 - 150' upstream

width - 12' depth 2'

flows fast (3)

level - 2

colour - clear

ppt. - 3

19 20 18

flow - 5 kt

115 D/7

	7A	7B	7C
lactive sd.	3	1	1
loc.	3	3	3
colour.	4	4	4

15400 - 9B - 8

18,000 - 9B - 9

18,200 - large tributary flowing from N

walked up 1000' channel in ice - took 1 bank sample 9B-10 - 400' upstream.

Change photos — A12259-213

20,500 broken qtz mica sch. cut by white qtz South bank

20,800 — 9B-11

21,700 — porphyritic granite 40' across

22,300 tributary from South

9B-12

23,100 — o/c.

gtz mica chl? sch. (volcanic?)

24,400 C-13

Then S over ridge to Dawson City road.

Calm, sunny, 2/10 scattered - med.

G. Pearse
W. Gruenwald.

7.

Photo A12259 - 110

West Branch of Airstrip Creek.

May 29th / 69

* Top of knoll at headwaters - outcrop.

- dk salmon coloured syenite. K feld - 75%, greenish plagioclase 15% black amphibole? 10%.

Start from knoll @ 180° to creek

2350' hit upper reaches of E flowing creek - in muskeg. Turning point.

0+00 Creek → E

4500' Sample site (9W 7A, EB)

* 7700' outcrop (N bank - small) red-brown gtz syenite - perhaps gtz monzonite - gtz less than 10% - same texture as last.

* 7750' - same - definitely gtz monzonite - ≈ 45% Plag ε 10% gtz

7900 - Same hill - qtz monzonite hnbd. somewhat chloritized few rusty hairline fractures with some manganese dendrites. - no sulphides noted.

8300' - sample 9W8 R.B&C.

8900' - steep hill - frost heave blocks qtz monzonite. Some rusty small cavities (pyrite?)

9000' at big "U" bend - still qtz monzonite

10 500' - red gelatinous Fe OH? in creek - on ice.

12,200' - no silt - still red Fe OH - took soil sample 9W9 mottled red brown & grey brown "B" horizon taken from fallen tree scar.

13,500 Sample 9W 10. silt.

14,400 - tributary from South. took samp 9W11 - 100' upstream.

15,000 - trib from south - swampy - no silt.

16,200 - broad trib. valley from N all ice bound.

16,900 - 9W12 A & B

18,100' meander loop to S and back north to broad ice filled clearing

20,100' into open willow country walked 600' to Lake to pick up.

From tracing of Pearce Greenwald
1:50000 map. 63°21'N
136°55'W

Afternoon. May 29th/69

Short traverse start at small swampy lake 2 mi. North East of knoll of morning traverse start point.

0+00 in muskeg few hundred feet N of little lake.

1300' - still in grassy swamp. small low ridge N creek large blocks qtz porphyry & qtz feld porph - med grey aphanitic groundmass - may be erratic but possibly near outcrop?

2150 - qtz-feld porphyry - either large boulder or near outc. dk grey aphanitic with abundant phenos qtz & feld. (25%-30%) avg 4mm

3000' dk green feld porph.

25%

apple green plag - and
grey glassy mineral thought
to be qtz grains up to 5mm
appears to have a good cleavage
in places - perhaps sanadine?
or a feldspathoid?
- dk grey - green matrix.

3350 high hill - do last.
on N Bank of creek.
- creek still running in
grassy channel.

3900' - 9W13 A & B -
A - bank sample
B. mid stream
both organics.
headed off in NE direction.

5000' - hit small creek flowing
W -

6000' jct of creeks in
swamp - no sample possible

8000 - all ice filled swampy valley
to here from jct.

* outcrop - light grey aphanitic

rock – siliceous — felsic

pick up on ice of creek.

scattered cumulus (1/10) G. Pearse
warm-light wind. R. Wells.

Photos - A12259-114 & 115 May 30th/69

Creek - NW corner 115P/7

0 to 0 Brg 0°
Northside of tear drop swamp.

130' out crop in hill side 20' long.
qtz mica (feld) sch. (qtzite?)
≤ 90°/20°N
some qtz blebs (white)

300' ditto. - strike & extent of fm is evident from photo linears.

3500 Brg 0° - hd W → Creek.
Sample 9P0001 A & B.
poor sample - swampy

Width - 3'
depth - .3
rate - 2
Level - 2
turbidity & colour - 4
Sed Size 20, 19, 21 (in order)
rock - none
SCST

9P0001	A	B
active	3	1
location	3	2
color	4	4

2400 9P.0001 location - moving down stream.

900' - open swampy arm to N visible on photo.

2000' gelatinous red patch in creek and on ice.

2600' - completely ice covered.

3000' - no silt - just loonshit

3500 - no sample - stream braided thru swamp.

3600 One sample - panned 9P0002 Several pounds to get a A few grams of silt

W - 3'
D - .4'
rate 2
level 2

Turb - 1
sed - 19, 20

9P0002A

action - 1
loc - 2
colour 4

5700' high hill with blocks of qtz mica (felsic) sch

6000' 9P0003 A, B & C.

width 3'
D 0.5'
rate 2
level 2
Turb 1
Sed 17 18 19.
Rock - schist float. & qtz.
SCST.

	A	B	C
Action	1	3	1
loc.	3	3	3
colour	3	3	3

8500' Sample 9P0004. A B C

width - 2' color ppt 3
depth 0.5' size 17, 18, 19
rate 2
level 2
Turb 1
rock - 1
type drains SCST.

	A	B	C
envirn	1	1	1
loc	1	3	1
colour	3	3	3
ppt	3	3	3

9350' lg etc. on high banks both sides of creek visible on photo
- micaceous qtzite?
(schist as before)
$\leq 145/30$ N
clastic grains $\leq$ 1mm
visible some Fe stain
- highly schistose layers in places - intraformational

shearing.

11,000 - end of steep canyon

9P5

W - 7		level	2
D - .5		turb	1
rate	2	rock	2

SCST

ppt 7

size - 17 - 18 - 19

	A	B	C
env.	3	1	1
loc.	1	3	1
colour	3	3	3
ppt.	7	7	7

12700 - almost continuous etc. to here. Some rusty patches on rock. one sample - well fractured and rusty - perhaps magnetite

13,600-9P6

W - 6'
D - 0.3
Fat 2
level 2
turb 1

ppt 7
size 17-18, 19
rock 2
type SCST

	A	B	C
environ	1	1	1
loc	1	3	1
colour	3	7	3
ppt	?		

15,100 - hit tributary that wells traversed. walked out to rd.

Photos A12068-325
A12259-214. May 31st, 1969.
115 P/7

Geological traverse
dropped off 2000' W of
hill summit in small muskeg
Brg 175°

750' Brg 175°

* Small ote in hillside
dk grey gt.-biot. (chl?) sch.
Σ 45°/10°N

1000' - dittos - Σ 30/15N

1100' - above overlays fol
mel grey micaceous
gtite conformably?

2300' hit east-west line of
black spruce well shown on
photo. continued on Brg 175°

2500' abundant angular float
(frost heave?) of
grey fol. micac. gtite
sch.

3300 - hit swampy little stream → W no sill.

3800' reached other side of black spruce grove - into more open country.

0+00 Swamp headwaters of creek to the south. Followed spruce grove line at 240°.

350' Brg 240° - hit SW flowing trib. of main creek took sample 9P7 A, B, C

9P7

W - 2'
D - .5
r - 2
l - 2
Turb - 1
ppt - none
Sieve 18, 19, 17
rock 1 -
type SCST

	A	B	C
env	1	1	3
loc	2	2	1
colour	3	3	3
ppt	none		

3800 hit W → creek in deep valley,
walked 150' upstream (90° creek)
small trib flowing from N
- coarse blocks in silt
- panned one sample
at only possible site

W -	1	size 17, 18, 19
D -	3	rock 1
r	2	type SCST
L	2	
T	1	
ht	3	

env	1
loc	2
colour	4
ppt	?

9P9

W 2'
D .5
r 2
L 2
trib 1
hut 3

Size 17, 18, 19
rock
type SC SZ
hut 3

Only A taken
had to pan it - some org.

Cmr - 1
SC - 2
color 3

0700 heading down str.

600' - hit line of spruce

1900 lg Δ swamp - trd
fr. on NW - mossy KO
SiH

2100' Sample 9P10

W 4' S-18 19 17
D .4 rock — 1
r 2 SCST
1 2 ppt.
turb 1
ppt 7

Large Fe OH in creek
Some contam in Sample B

	A	B	C
env	1	1	1
loc	2	2	2
colour	4	4	4

3900 - outcrop in W bank
greywacke - sphite
interbedded with med grey
glossy phyllite ≤ 90°/35N
on fol. surface of
phyllite is a crinkle structure
— parallel to strike
espaced ½ to 1 apart
also very fine crinkling
at 45° on fol. surface

drag folds - small
slight plunge West

4200 ote E bank.
Σ 100/20 S
other bank 50 away
Σ 80/35 N

4300 lg high ote. variable dips but all close to horizontal.

4600 S/well ote.
sample 9 P11

W 4 fppt. 7
D .3 size 18, 19, 17
r 3 rock 2
L 2 type PH LT
turb 1 & SCST

	A	B	C
environ	1	1	1
loc	3	1	1
colour	3	3	3
fppt	7	7	7

6600 E bank - high rocky hill - gtz mica sch. & phyllite - broken rubble from top

7100' Sple. 9P12

W - 7'
D - .2'
r - 2
L - 2
turb 1

ppt. 7
size 18, 17, 19
rock 2
type DHLT
SCST

	A	B	C
envi.	1	1	1
loc.	2	2	1
Colour	4	4	4
[illegible]	3		
ppt	1		

8600 - left creek on Brg. 270° outcrop along creek

0600 Brg 270°

4600 – outcrop knob near crest of broad ridge (scattered blocks of rock all the way)
grd mica sch and micaceous qtzite.
Σ80/15 N

8000 – hit creek to be sampled – dry with mossy channel no sfk.

walked 500' downstream

9713 A & B
W 1
D 2
r. 1
L 2
Turb 1
ppt –

IB; 19, 17
No rock drain SCST Pyrox

	A	B
env:	1	1
loc	2	2
colr	4	4

0400 Brg. 330 – 5000' to pickup otc. of qtz mica sch. at summit.

G. Pearce

Photos - A12183 - 216
& 162

June 1st rain

Pirate Mtn. - Lge Cr. SE side.

June 2nd, 1969

0+00 - Northern lobe of summit - coarse grained med. gray hnbd - diorite - white - gray fld. no qtz (near cairn)

5'00 - cgr. granite (5-7mm qtz & fld.

37'00 aplite dyke ± 10 wide ± 70° steep cuts coarse gr. granite - at headwaters of creek flowing southward.

63'00 - sample 9 P14.

W 2
D .2
r 1
L 2
T 1
Size 17, 18, 19
rock occ. # 1
lochaber dr GRNT

	A	B	C
env.	1	1	1
loc	2	2	2
colour.	3	3	3
ppt.	3	3	3

7200 - Abundant diorite float.

8900 Sample 9P15

W 3'
D .3'
r .2
l 2
T 1
S 17, 18, 19.
rock occ. 1
local type. GRNT.

	A	B	C
env.	1	1	1
loc.	2	3	1
col.	3	3	3
ppt	-	-	-

9600 - granite etc. on W bank
abundant diorite float
in valley.

11500 Spl. 9P16.

W 8'
D .4
r 3
L 2
T 1
S 18,19.
r.o. —
l.r. granite & stir

	A	B	C
env.	1	1	1
loc.	2	2	2
col	3	3	3
ppt	—	—	—

12500' hit E-flowing Cr.

300' up stream Spl. 9 P17

W 10 r.o —
D .2 l.r granite
r 2
L 3
T 1
S 17,18

Perraise
Pearse

	A	B	C
env.	1	1	1
loc	3	2	2
col	3	3	3
ppt	—		

0+00 - Jct. creeks
downstream → E

1500' trib from South
(400' up stream).

SP18

		A	B	C
W	6	env	1	1	1
D	.3	loc.	1	2	2
r	2	col	3	3	3
L	2	ppt.	2	2	2
T	1				
PPT	2				
S	18, 17, 19.				
r.o.	—				
L.r	granite				

Stratified bog iron ore
in creek bed.

1600' - above jct of trib on main Cr.

9P19

			A	B	C
W	3				
D	.2	env.	1	1	1
r	2	loc.	2	2	2
L	2	col.	3	3	3
T	1	ppb.	2	2	2
ppt.	4				
S	18, 19				
r.o	—				
L.r	GRNT				

4200' Spl. 9P20

			A	B	C
W	8'				
D	1.5	env	1	1	1
r	3	loc	2	2	1
L	3	col	7	7	7
T	1	ppb	7	7	7
lppt	2				
S	17, 18, 19		Found. Fe		
r.o.	1				
L.r	GRNT, DORT				

5500 - highly braided swampy stream from S
walked up ≈ 800'

9 P 21

W 5'
D .5
r 2
L 3
T 1
ppt. 2
S 18, 19, 17
ro. 1
L.r GRNT, DORT

	A	B	C
env.	1	1	1
loc.	2	2	2
col	7	7	7
ppt.	2	2	2

walked 1000 due W to parallel trib - main channel deep - took seds from dry braid in stream

9 P 22

W 3
D .2
r 0
L 0
T -
ppt. -
S 18, 19
ro. -
L.r GRNT

	A	B	C
env	0	0	0
loc.	2	2	2
col	3	3	3
ppt.	-	-	-

Walked 1200' due N to
0100 main creek. - outcrop on
N Bank -
& Med gr. mottle-grey
knobd diorite.
Jts: 80/85 S
25/55 W
145/65 W

1000' downstream from above
obs. of f. gr. diorit (chilled
margin) with pods & stringers
of coarse granite. Some
porphyrot. of felsic develop
in diorit in places.

1100' Main stream too
swift and deep for
sampling - both samples
from small tributary
to the main

9P23
W 2 T 1 DONT
D 2 H -
r 1 S 18,1
L 2 r 0 2

	A	B	C
env	1	1	1
loc.	1	1	2
col.	3	3	3
ppt.	—	—	—

1700 — still diorite &c. & floor.

2000 — hit stream → from N — walked up 1000'. no silt — heavy vegetation and boulders — high cut & up diorite & gr. with granular strips epidote & calcite

4500 — main stream too deep, rocky & fast to get silt for last mile.

— N-bank outcrop granite — light yellow green weathering cut by qtz veins

andstrinjens - barra

4800 diorite -

4850 granite - mucl epidote (from feld? no vein(s)).

4900 diorite - veined.

5700 - " "

6400 - Spl. 9 P 24.

			A	B	C
W	15				
D	.5	env	3	1	1
r	3	loc	3	3	3
L	3	col	3	3	3
T	1	lopt			

lopt 7
S. 18, 19, 17
r.o. #1
L.r DORT, GEN.

7000 - veined fgn & med gr. dk grey diorite.

7800' hit tributary from N
500' upstream - all silt
above W.L. as too swift
& rocky.

9P25

W 7'		A	B	C
D 1'	emr	3	3	3
r 3	lcr.	1	1	1
L 3	col	3	3	3
T 1	ppl.	-	-	-

ppl. 7
S 1819
r.o 2
Lr. diorite

8300 - 9P26

W - 15 r10-2
D 1.5 LR-DORT
r 3
L 2
T 1
ppl 7
S 18, 19, 17.

	A	B	C
Conv.	1	1	1
Ice	3	3	3
Cola	4	4	4
ppt	—	—	—

9600 headed helicopter in creek just below Stans tributary jct.

Creek Traverse South to Willow Creek
G. Pearse 43
W. Hamilton
Airphotos A12259-206 June 3rd/1969.
A12068-315

0+00 South end of swamp
- start of traverse.
- creek in flood in swampy ground - no sample.

300' - qtz. feld. porph
ak 2-3mm pink feld
Says of qtz in v.f.g groundmass.

1100' hit another swamp.

1500' - E bank of valley -
green andesite -

2100 - dk greenish grey qtz porph
rhyo-dacite? - foliated - loose
blocks - also some qtz stringers
& some carbonate fract. fillings.
Tributary is bouldar filled valley -
no silt or water flow evident.

2400' qtz-feld porph - fol.
Σ150/40 W

2700' 9H-1 – one sample only
not taken

W – 1.5 A (B C)
D – 0.5 env 1
r – 3 loc 2
L – 3 col 3
T 1 pot —
ppt 8
S 19, 18, 21
r.o. 2
L.r. ANDS

100' up Tributary from W
9H2

3900' scattered andesite?
to here – here – softy
dk. andesite E bank
some pyrite grains (one
acicular) sparsely scatted

4000 – 9H3 – Trib from W
some organic silt.

5100' 9H4 – trib from W
very small & mossy one

sample only.
Main Creek - impossible to get a sample - water in swampy ground - deep & fast and in flood

5400 - 9H5 - A & B - gravelly samples.
V.f. grained dk green massive andesite - beautiful! - contin all along the Creek.

6300 - Trib from W - sample 9H6 - taken 200' up from main creek. - good sulf.

7500' - high alt. f.gr. green Andesite. E bank.
- Creek flowing under ice for last 300' - one fleck pyrite noted.

7650 Sples. 9H7 A & B.

8200 small alt. - fol. Andesite frost heave exp.

10,150 9H8

13,150 9H9

Walked out to pickup in boggy lake - 800'.

G. Pearse 47
W. Gruenwald
June 4th/69

Airphotos - A 12068-316 & 371

E → Creek
from Willow hills

0700 open "dry" muskeg on high plateau Brg 105°.

1100' - prominent tabular ote. rising vertically out of ridge 20' - f.g. green andesitic arovate foliation & coincident fract. fol Σ 115/50° S.

most prom joint - Σ 09/80 E
few small qtz & qtz carb stringers & some epidote stringers.

Brg 90° from ote. 0800.

1700' - headwaters of Creek swampy - silt, organic 9W42

1900 fdd porph intrusive rock float.

2700 last 200' - mall

broken otc. med greenish grey fold porph (phens over 50%) avg 3 mm - scattered qtz eyes - rock foliated. fld white - large ones ½" pink

4000' large fold porph otc. in places looks volcanic? perhaps chilled dioritic or hybrid rock?

4200 - 9W43 AB & C

4400 - deeply incised curved trib - no silt - green mossy channel.

5300 N-Bank lg otc. - beautiful fold porph. (avg 4mm white feld (K?) 35%, less than 1% qtz, few percent biotite & pseudomorph of limonite after hnbld. few qtz frac. fillings some or ±1'

6100 9W 44 AB & C otc. all along - to here - here more fol. and qtz eyes more abundant ≈ 5% perfect hex. black biotite phens.

6300' hit trib entering S side of main Creek - only one sample of organic & silt. 9W45 - 100' upstream

7000'

fold prophy - prom joints spaced ½" to 3" (perhaps also fol)
≤ 40/74 N
two gtz veins 4' apart: one ¼" the other 1" and:
≤ 80°/18° N
Second prom joint ≤150/72 E
- scattered hex plates of biot & dull chlitized biot?
- Prop very highly fractured breaking rock into prisms a few inches in diam and about 1' long.

8400 tributary - from S. 9W46 on main creek 9W47 50' up tributary nomore ota.

9000' otc high hill - S bank - fell porph - rusty fractures - no Sulphides visible - more mafic rock than previous outcrops. Also fell pink (not white).

9500 - lg otc. N. Bank. highly fol. feld porph ∈15/30W

much more mafic - quite dk green - qtz still visible

9600 - massive f.gr. Andesite - small ~~post~~ point of outcrop. (South - not projection) contact exposed - some andesite rubble below otc - ≈ ∈90°/90 (roughly // to creek - uphill - still porph

9700 - Andesite occurs ~~dyg~~ in plans - still pred. ~~Feld~~ porph highly fol. (∈20/30W

perhaps inclusions of Andesite but Andesite is fresh

may be

11000' 9W 48 A B & C.
Sand, gravel, silt

13,300 - 9W 49 A B & C

15,400 - off to South of Creek.
hit-main stream running
from SW - 9W 50

0000 - Big 80° to Pickup
on small swampy lake.

4000' reached lake.

Photos
A12203-139
A12203-141

G. Pearse
June 5, 1969

Francis Plateau - S flowing Creek to delta on Ethel L.

0+00 on Ridge 200' W of Creek Source

qtz mica schist - grey and black phyllitic sch with concordant qtz veins from few mm to few cm thick -

Sol. Σ 115/20 N

Brg. 120° to Creek

500' - Brg 120°

micaceous qtzite - grey - 10' section exposed dipping below sch.

1000' hit long bog - headwaters of creek

walked 900' SW along bog to end of bog

0900 beginning of creek

mossy bottom.

1600' 9P27 A & B.

W	2		A	B
D	.5	env.	1	1
r	3	loc.	3	2
L	3	col	4	4
T	1	ppt.	8	8
ppt	8			
S	17, 18			
r.o	1			
t r.	SCST.			

2900' cut over hill to cabin trib from E - only one organic silt - Creek in flood. 9P28A

W	10'		A
D	.2	env	1
r	3	loc	3
L	3	col	4
T	1	ppt	2
ppt	-		
S	19, 20, 21		
r	?		

4200' - 9P29 A B & C

W	G		A	B	C
D	.3	env	1	1	1
r	3	loc	1	1	1
L	3	col	3	3	3
T	1	rpt	7	7	7

rpt 7
S 17, 18
r.o. 1
l.r. SCST, QRTZ

4400' - Trib fr. E
9P30 ABC.

W	2				
D	.2		A	B	C
r	.3	env	1	1	1
L	2	loc	1	3	1
T	1	Col	4	4	4
rpt	8	rpt	8	8	8

S 17, 18
r.o 1
l.r. SCST, QRTZ

5200' Trib fl. from W

FP31
W 3'
D .4
r 3
L 2
T. 1
ppl 7
S 19, 18
r.o - 1
l.v. SCST QRTZ

5300 E bank - dk. sch
qtzite - broken blocks

5100 dk. W bank.
qtz sch laminae
& pod. qtz (1mm) with
folia of mica

E40/20W

6000 - dk. phyllite & qtzite
E bank

6100 Trib from E

9P32 – from Trib.
– very fast & only gravel

W 3
D .2
r 3
L 2
T 1
ppt –
S 17
no. SC 1
Lt SC 57

9p 33 in main Creek.

W 8
D .5
r 3
L 2
T 1
bpl 7
S 19
r.o 1
rock SCS GRN 7

7000' ± bedded sides to here
mostly qtzite & qtz sch
some phyll & biot. sch
Σ 40/15° E

8000 qtzite & sch

8400 – qtzite & sch
(pseudo qtzite)

8800 – 9p 34. (2 thin sections taken)

			A	B
W	10'		1	1
D	1	loc.	1	1
C	3	Cal	4	4
L	2			
T	1			
tot	7			

S 19, 18
r. sch. etc.

9900 – Sch & qtzite to here

10,400 – granite – c. gr.
light grey biot. granite
± black small ote-

11200 - 9 P 35

W	15'		A	B	C
D	.4	en	1	1	1
R	3	loc	1	1	1
I	2	Col	4	4	4
T	1	ppt	—	—	—

ppt. 8
S 17, 18, 19
V .2
l.r. GRNT.

12,900 — hit shore at E side of delta. (Ethel L.)

June 5, 1969
Photo A12203-86 Afternoon
Ridge traverse NW from summit Mt. Sether

not done

Sunny, warm. G Pearse 61

SOUTH CENTER

WILLOW L. SHEET

(115 P/2) June 6, 1969

Photo A12259-198

0700 - Top of Hill 4237

Brg. 270°

1. Qtz biot. schist cut by qtz stringers - Σ 168/60 E

1700' headwaters of creek.

Spl 9P36 A B & C.

		A	B	C
W 1				
D .2	env	1	1	1
R 2	loc	3	3	3
L. 2	col.	4	4	4
T 1	ppd.	—	—	—
ppd 8				
S 18, 17, 19				
r.o 1				
l.r SCST.				

4600 open NW Trending buck brush clearing along creek 100' wide sandy sample mixed with leaves one only

9P37 A

W 5'		A
D .8	env	1
r 1	loc.	2
L. 3	col.	3
T. 1	ppt	2

ppt. 2
S 18, 19, 21 some "big stones"
r.o — noted up stream
lr. SCST?

6000' at big bend in Creek.

6200' small expanse mass
gtz biot. sch S 12a/64 W

6500' · very minor stream from
SE 9738 A. B. C.

W .5		A	B	C
D .1	env.	1	11	
r 2	loc.	2	22	
L 2	col.	4	44	
T 1	ppt.	—	-	-

ppt. 8
r.o ~~schistlite~~ 2
lr. Schist qtz.
S. 18, 19, 21

7000 – ote N bank – last 500' qtz bist sch ± bist qtz sch (qtzite) – laminae tightly folded.

7100 9P39 from main Cr

		A	B	C
W	3			
D	1	anv 1	1	1
R	2	lic. 2	3	3
L	2	col. 4	4	4
T	1	ppl. 7	7	7

ppl 2
S 18, 19.
r-o SCST
L r ote

7800 N. Bank ote qtzite – one 6" concordant qtz vein ∑ 0°/60°W

8500 Large trib from SE in flood – only one sample – gravelly 9P40

W 6'
D 2'
r 3
L 3
T 1
ppl. 7
S 17, 18
ro. —
lr. SCST?

	A
env.	1
loc	2
col.	3
hppt.	7

9300' (800' W of trib).
gtrib — (bist gtz sed)
laminae 2 mm gtz, & seams of bist

11800 - 9P41
W 4'
D 2'
R 3
L 2
T 1
ppl. 7
S 17, 18, 19
ro 1
lr. sch.

	A	B	C
env	1	1	1
loc	1	1	1
col.	4	4	4
hppt.	7	77	

11900 - across small divide Creek from S 9P42

W 1
D .4
R 2
L 2
T 1
ppt 7
S 19, 20, 18, 17.
r.o 1
l.r SCS7.

	A	B	C
env	1	1	1
loc	2	1	3
col	4	4	4
ppt	7	7	7

14500 - 9P43

W 2'
D 1'
R 2
L 2
T 1
ppt ?
S 18, 19
r.o —
l.r SCS T.?

	A	B	C
env	3	1	3
loc	3	3	1
col	4	4	4
ppt	—	—	—

15700 N. Bank
biot – hnbd – fld. gneiss
mafics in augen – gneiss
crenulated fpl. (paragneiss?)
Σ 05/60 W

16800 lg. blocks of porph granite – frost heave?
– fairly angular.
K-feld phenos ≈ 15%
avg ≈ 1 cm. carlsbad twins
– mafics – biot, med gr.
grdmass.

17,102 Spl. 9P44 A B & C

			A	B	C
W	5'				
D	.5	env	1	1	1
R	3	lol	3	3	3
L	2	col	4	4	4
T	1	fppt	7	7	7
ppt.	7				
S.	18 19				
r.o.	1'				
L.r	GRANT & SCH.				

17,800 - hit Hamiltons flag - 9 H 20 ?

18,100 Where am I?

18900 - jct of stream from SE with main Stream Here samples H22 & H21 respectively

Perhaps Hamilton missed head of his creek & continued on compass till he hit my creek?

26,700 overtook Hamilton at 9H25

Photos A12179-57 & 58 G. Pearce 69
C. Wicks
Burton Creek June 10th, 1969
115P/13

0+00 - on ridge at headwaters of creek.
med. grey slate with some beds of impure qtzite. ∠105°/26°S

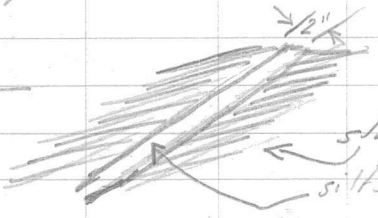
300' - buff qtzite cut by veinlets of white qtz.

1200' three small saddles & on second knoll of ridge slate & flaggy qtzite either contact slate - qtzite or largely qtzite with intercalations of slate. (North contact of slates?)

2200 - small sinuous str. visible on photo - buff qtzite (massive) cut by white qtz veinlets.

4900 buff qtzite in places - qtz pebble congl. (sub rounded clasts up to 7mm.) milky white pebbles - all along ridge from last

buff qtzite cut by qtz stockwork - here - 3' slate bed overlies qtzite ≤95/16°S - med green and grey siltstone layer in slate ≤95/30°S



5570 - hit serpentinized pyroxenite dk. green well foliated ≤120/20 S

5870 - top of next dk. - red slate overlain to S by qtzite and overlying porphyroblastic to N.

6570 crossed 650' more pyroxenite in slate - now in red slate

8370 all red slate to here headed N to Creek.

12,370 - dk. largely buff grit with qtz stockwork & some slate

0700 - headed NNE to Creek

6000' hit creek.
Sample 9C1.

0+00 Starting on Creek.
900' - qtz.
1750 - Tributary from East
New photo A12179-58 Sample 9C2
3350 9C3 - main creek

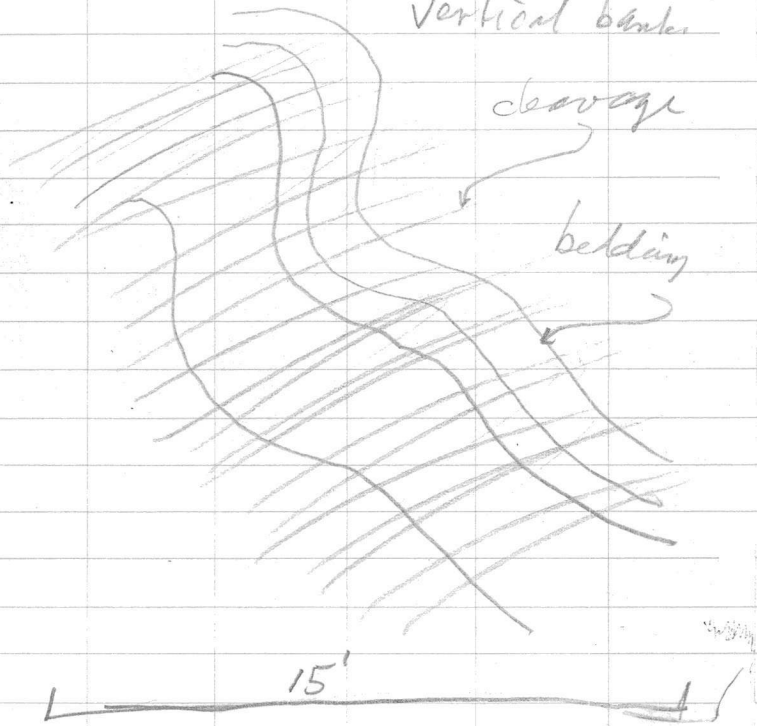
5950 - 9C4 on main Cr.
9C5 on Trib from E.

8000 - 2 tribs. E & S
9C6, 7 & 8.
10500 9C9.

13100 Small spring in swampy lowland issuing from between two hills to the South 9C10 (main) & 9C11 Tributary.

13500 black slate S. bank.

14,300 black shale S bank



Photos A 12243-288 June 11, 1969

C. Pearce 73

Traverse E to Little South Klondike River (Creek mapped as fault).

0400 Ridge // to Creek on South side.

- finely layered siltstone alt. black & buff layers from fraction of mm to 1 mm.
- headed down into creek from here ≈ NNW

2100 - followed creek down to jct. Cr. from E 9 P45
Cr. from S 9 P46
all siltstone float & otc.

2600 - main Cr → NE
sed - very coarse
otc. in bank - grey siliceous siltstone with specks of pyrite P47

0700 - down stream from jct

320 L Pacific Rainproof

500' black graphitic phyllite
Took rock chip.
S 120/80 N
cut by qtz - abundant
cavities stained with yellow
and brown - sulphurous smell
qtz in places is a fine stockwork
the veins having phyllite frags
* - perhaps Uraniniferous
check with counter.
- graphite content - high.

700' end of ot. Below this
heavy Fe stain - deeper red
on float in creek & live
& buck brush rusty red.

1400 - dk grey massive argillite?
with carbonate stringers.

2000' graphitic shale - black
powdery texture. at
jct. of Creek from SE
P48 main stream
Coarse sed.

p 49. Tributary.

2800 - lg ofc pred. pebble congl. - pebbles shale, s.stone, qtz. - also some arkose?

4300' Small creek. 1 sample - 9P50

4700 main Creek 9P51

5200 black slat rubbly ofc. - up to 5600

5700 - Creek from S - (lg one) 9P52

5900 N Bank - black Shale shallow dip Westwards

6200 - S bank - Shale s' rubble of grey felsl porph dyke rock (also dec phases)

320 L Pacific Rainproof

6300 end of fold prpdh - with shattered slate.

6700 - Creek from south
9P53
main Creek 9P54.

6750 - bright red stain on boulders, ie ferbrush

7000 - rusty old boiler on creek bank.

7700 9P55 - one sample from seepage pool.

8000 - rusty qtz cutting silt stone

8300 - grey shale

9200 - hit main Creek
saw Stan's sample flag.

0700 Brg 55° — over divide into small creek flowing NE to little South Klondike R.

4000' — trib from S — 9P56 going N to the side of main valley — 20' section of laminated siltstone & grey shale E 90/20 N

picked up trib from NW 9P57 A & B

4400' siltstone N. Bank

4800 — rusty siltstone high outcrops

6100 Swampy divide trib from S — no silt —

6600 — main creek 9P58

7600 — Conical obs of

320 L Pacific Rainproof

Siltstone - horizontal attitude
- visible on photo

7600 Little South Klondike
9P59.

Photo A12259-265

June 12/69
Sunny, warm
G. Pearse

Syenite Range

Traverse SE to Lost Horses Creek. 79

Top of saddle - headwaters of longest branch of Creek
high summit to SW - rubble predominantly chert pebble cong. with dk grey matrix. few slate flags

0400 - SE Slope of Saddle

1300 Spl. 9P60 A B & C.

1400 rubble from E side
Congl. & black slate

1900 200' up E side - scar with slaty looking scree

2000 obs. of slate in creek
cleavage // to slope
312 S/45° N
tributary from W enters creek here
9P61 A. B & C.

320 L Pacific Rainproof

3700 Congl rubble E side of Cr.

4200 Congl. obs (visible on photo)
extends to 4700
clvg Σ 180/60E

4700 - tributary from E enters.
9P62 on main AB&C
9P63 on trib.

5400 - Congl. ridge to here.
trib creek from W.
9P64 ABC.

6400 Congl rubble E side

7400 - Spl 9P65 A.B&C

8400 Congl on hillside E & W

9600 same - abundant qtz

10,100 trib.
Spl 9P66 (main)
9P67 (trib)
both gravelly - boulders
pure stream bottom
no silt

11,600' Congl rubble W side no silt or water in trib E side

12,300 - Congl. grit & some shale

12800 9P68

14,400 Some shale rubble W bank.

15,600 9P69 ABC.

16200 - high shale ote E bank E ≈ 80/30 N

18400 9P70 A & B coarse.

19,100 hit Lost Horses Creek

Spl. 9P71 A B & C.

320 L Pacific Rainproof

A 12259-259, A12203-210 83
Headwaters Right G. Pearse
Trib. Clear Creek. June 13, 1969

0400 top of ridge -
Sericite sch ∠60°/15N

headed Northeasterly down to valley. trib dry & full of frost heave blocks schist cobby gtz one gtz. tourmaline vein noted

0800 reached main creek - took Spl. 9P72 and panned a heavy mineral conc. for assay.

700 - Trib from E 9P73

2500 Trib from E
9P74 on main
9P75 on trib.
from last Station to here high cliff - W side - sch more & more gtiz.

320 E. Pacific Rainproof

3500 - small trib from E
one sample only 9P76A

5000 - Trib from S.
9P77 - main
9P78 - Trib

5100 Trib from N small
9P79

5600 qtz Sen. sch. cut by
rusty qtz
E 65/20N

6500 Trib from S.
9P80

7600 - main Stream
9P81

10,300 9P82

didn't see Trib from S.

11,000 Lg trib from N
P83
paired trib & main Stream

13,600 – Trib from N
P84 (main)
P85 Trib'

16,200 P86

17,600 Otc
Sm. qtz sch S. bank

18,500 trib from N
P87
main P88

19,900 Otc Sch near
flat lying S Bank

20,200 – ditto

320 L Pacific Rainproof

21,000 Spl. P89 ABDC

21,300 S. bank - qtr sch

21,800 Sch.

22,400 Sch.

23,400 - picked up on Clear Creek

warm 4/10 med. C. Pearce
No photo - Tracing 1/50,000. June 14, 1969

Traverse - Clum Creek 116A/3

0+00 head waters trib
Spl. 9P90 A B & C.
Float - Quartzite, & grey & purple shale.

2800 bank sample 9P91

5400 Spl. 9P92

5600 Trib from E

9P93 - qtzite & shale float - & red & black slate

5800 banded (black & grey) shale - bottom of

7600 ditto

8400 - Spl 9P94

320 L Pacific Rainproof

8500 hit N-S stream
walked N to sample
two branches. 500'

P 95 - E fork.
P 96 - W fork

0+00 @ 9P94.

1700' - trib from W
main - P97
trib P98

4300 - 9P99

4450 E bank - broken dk
black qtzite - few flecks
pyrite.

6100 trib from E

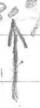
main 9P100
trib 9P101

8700 – 9 P102

9150 – hillside exp. 150 W of Creek
Shear zone in dk grey argillaceous rock resembles conglomerate – in places definite stretched fragments discernible – perhaps tectonic fr

S90/30N

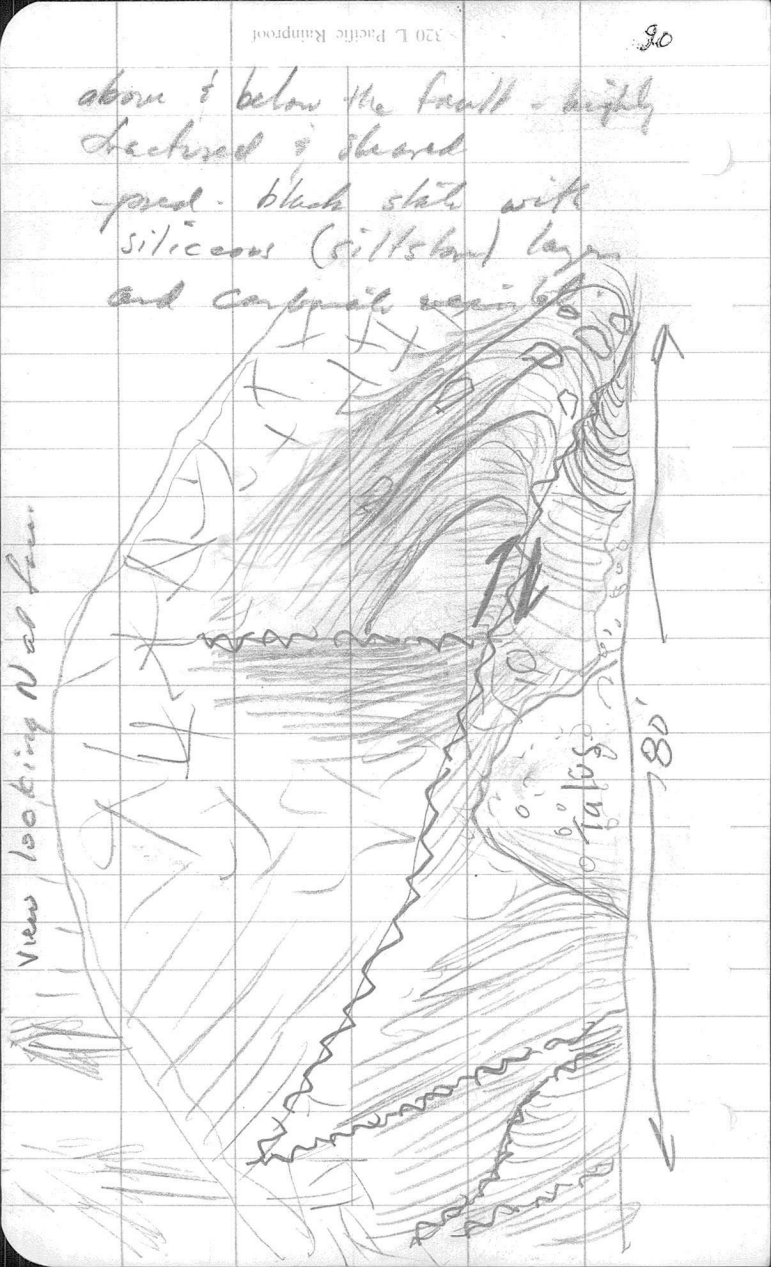
rude lineation of rod like masses of grey argill. rock. – rods flattened in plane of fol. 3" wide 1" thick



9300 – Cliff face at Creek 70 high, 80 long. low angle fault with excellently exposed drag structures. The rock

320 L Pacific Rainproof

above & below the fault - highly fractured & sheared - pred. black shale with siliceous (siltstone) layers and carbonate veinlets



fault not plane

Approx attitude -
E80/40N

11,400 9P103

14200 - Trib from E

Trib P104.
main P105.

14600 P106 A & B
3' with slow, cents, sands

15,000 N Bank - slab
E60/40N

15,200 trib from South
107 A & B
6', O.S. grey gravel & sand

16,400 pickup on creek

320 L Pacific Rainproof

AR2203-196

C. Pearce
June 15th 69

Traverse from Lisky's Camp on W side of Syenite body towards centre to examine granite - syenite contact

0700 - Camp. Brg. 145°
towards saddle in ridge

1000' - boulder? Syenite & hornfels blocks on steep slope

1400' reached rocky saddle
Porphyritic qtz Syenite
30-40% pheno grey K-fsll up to 2cm long
- less than 10% qtz
- mafics 15%-20% largely hornbl with subsidiary biot.

0800 dropped down into basin on other side - large creek below -

1500 - small flat - flowing SW into large creek
gp108

320 L Pacific Rainproof

1550' main S → Creek
9P109 A B & C.
also panned stream.
(concentrate)

Bng. 60° (up creek)
towards a saddle

2200' - scattered granite (porphyritic) float & here - here boulder with coarse Syenite & chilled granite ~~porphyritic~~ perhaps a dyke albite rimmed with white feld?

4000 Still qtz ou but getting larger & more abundant, plumes also mine matics - albite rimmed with K-feld (pink

4400 - on serrated saddle
qtz Syenite?
platy cleavage to rocks
fractures less than an inch
and up to a foot or two
~~apart~~ apart E 140/85S

minor rusty weathering

— altered rusty rock on smooth saddle between pillars of qtz syenite - perhaps altered granite dykes? (15' wide)

0900 Brg. 310° ℓ

Started up ridge (along contact - marked ridge summit @ 800' - drop off into valley, quite steep - changed course to continue along ridge ≈ 240°

1800' - mineralized zone ≤ 50°/steep.
Narrow zone perhaps 2' wide (in rubble)
likely granitic dyke phase of feld altered to white kaolin - shiny mineral first thought to be pyrite

but it appears to be either octahedral or possibly scalenohedral? – perhaps marcasite.

In places sericitization is predominant alteration elsewhere – appears to be kaolinization.

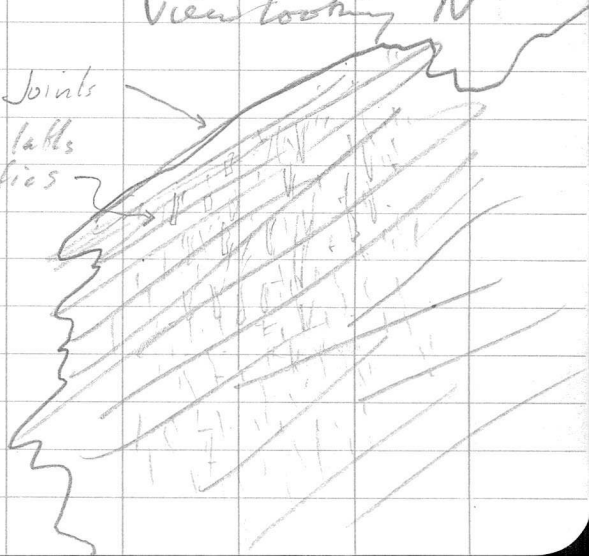
Location Brg on highest peak in Syenite Ridge – 169°
Brg on saddle crossed over this morning. 246°

appear to be radial from granite (although perhaps only in Syenite collar.

Walked contours around ridge swinging more westward and finally ¾ Northward for about ¾ mile to outcrop which seen from a distance looks like

Sedimentary rocks? Contact ~~with~~ ~~with~~ forming dip slope. - reddish - is syenite with marginal joint pattern ∠10° / 30 W also - feld laths aligned vertical to slightly off vertical towards center of intrusion - whether a foliation (primary) exist or not was not determined.

View looking N



98

320 L Pacific Rainproof

Bry to Camp 280

G Pearce 799
G Lisby
E Buss

June 16th/67.

Traverse to contact zone
South of Camp.

Sta #1 - ~ 2½ miles S of Camp
- Shear contact area
Tourmaline veins.
Sample for assay
- flat sheet joints
of syenite.

Sta # +50' rusty brecciated zone
5' wide E 74°/90
Rock sample - K feld
Kaolinized

Sta 2. across contact on
top of ridge —
Crest of ridge - a vein
of tourmaline with
a silvery grey sulphide,
and some pyrite. The
vein is irregular and
has fine grs of gth

Arsenopyrite, cpy, Bn

320 L Pacific Rainproof

100

2 10' veins
E 100°/90°

Vein material solid also
a westerly spur.

Took Assay Samples

Sunny, warm
A 1-3-35-76
116 B/1

G. Pearse
June 18/69

Dawson Area.

Proposed on ridge - walked E downslope to creek gully - gully - grass and moss floored - game trail.

1500 - rotten feld por obs.

2500 Spl. 9PH0

3400 feld pryph - some fresh rock - med grey feld. pryph - v. f.g matrix - abundant (± 20%) biot xls.

4200 leached feld pryph (intense weathering) with some sulphide ~~noted~~ noticed in only one specimen - grey is sulphide - not magnetic. no copper stain

320 L Pacific Rainproof

4600 Small stream from N
gp111

4900 - gp112

~~5500~~ trib from S - gp113
(5500')

6500 trib from S - small
gp114

6600 - N. Bank - Feld (biot)
Dorpk (grey).

7100 - ~~gp~~ gp115 main stem
gp116. trib from N

8700 Trib from S
P117 (main)
P118 (trib)
abundant gt. Feld porph
angular frag

10400 - trib from S P119, P120

11200 - p121

12,500 P123 main.
P122 trib from S.

12900 P124 trib from N.
flint. chert & shale

Ok @ 12800 - black chert.

15,500 - hit. S. flowing
main stream.
P125 (S →)
P126 (E →)

8700 - going South.

450' Stream → E
P127

28,00 - P128

32,00 trib → from E
P129.

58,00 Ok. qtz field. (knobd)
(biot) porphyry.

320 L Pacific Rainproof

mud grey - fld
upto 1.5 cm., mauve
qtz eyes - 3-5 mm.
black hnbd. lathes
one pyrite speck noted

6002 — 7130
10' Left side
grey.

A-13135-71

G. Pearse
June 19/69

OGILVIE RGE - Sunny warm

Traverse from ridge down Creek → N

Top of ridge & along to N

- grey shale.

Down to Creek

0700 - 9P132

1000' 9P133 frib. from SE

3000 - Ofc. N. Bank
Andesite - amyg? or fold. prop?

3500 - 9P134.

4100 9P135 (frib from S-dry)
horizontal Shale - angular & blocks of gabbro

5000 Chert S band E65/60S

6100 Andesite - rusty-med to fine grained green (S-band)

7000 – P136

10,200 9P137

11,100 trib from S. (with valley)
9P138 – swamp

11,300 N side – Ord. grey ls
with Calc. veinlets

12200 – high Ord. ls. – cliff on
S. side of creek

12,800 P.139 – also qtz vein with
arsenopyrite specks

13300 – trib from N.
9PP140 Andesite? – gabbro
upstream

15,900 9P141 swamp
Gabbro just up stream

18500 9P142

20500 Jct two lge strms. (Charlie
Wick) Strm from NE
9P143
Pearic Creek – 9P144

21600 – Ridge on photo – Chert pebble congl.

23100 9P145.

25700 9P146

26,000 Hist Lee Creek

A 13135-9.

G. Pearce
June 22/69.

0400 headwaters - qfeld

qp148 Trib from W
qp149 - main Creek.

1800 - etc all the way —
qfeld, qfgsch & slate.
Mem: E50/20S.

2600 - qp150 - in qfeld

4900 - trib from W (large one)
in qfeld qp151 (trib)
qp152 (main)

6300 qp153

7450 qp154 (trib from E)

10,700 - qp155 - Qrtzite. E bank.

10,500 — Trick from E
9P156

13,000 9P157

14000 — Red Shale in E Bank
Small exposure
260/15N

15500 9P158

17800 — Qtrk cut by Qtz
vein bearing moderate
* chalcopyrite, Malachite, &
Azurite. Surrounding Qtrk
barren — Ore all rubble
nothing seen in place —
definitely not transported far.

18,100 9P159

20,600 9P160 last few hundred
feet — large

boulders 1 1/2 (3'-4' across)

23,100 - 9P161

25,700 9P162 - Qtrib
Sh. Esh.

~~28~~ 28,200 - 9P163 - on Antimony
Creek Jct.

Photo. Partridge Creek G. Pearse 23/6/69. 115P11

0700 - In swamp South of Creek jct near headwaters.

300' - porph biot granite phenos upto 2 cms.

330 9P164 -
800 granite.
2800 - 9P165 granite obt.

3800 Granite all along W bank here - gtzil & biot-gtz sch appears both sides of valley. West side granite - schist 10 apart. - Some hematite but no sulphides or greisens noted.

Σ contact ≈ 110/Sloop

330 E. Pacific, Rampart

4300 – panned gravel fm heavy min-cons. 9P166 panning.

5400 – 9P166 (silt)

6450 – Trib fm E 9P167 (sch floods)

7100 Trib fm W 9P168 – sch

8600 – 9P169 sch.

10,600 Trib fm E 9P170. main – 9P171 sch at 9P170 (bldr gtr)

11600 – Trib fm W. 9P172 Sch str.

12600 – Sch S140/20W

14200 9P173 – no str seen in last 1000'

14600 - Turb from E
174

16800 175

19,400 176 scattered ch
sch to here.

22100 177

24,100 178

Tracing of 50,000 scale June 26th.
Benson Creek G. Pearse.

0700 – gr'ite. below ridge from cirque.

5000 shale – black – abundant pyrite

6200 – hrbd – diorite (or gabbro).

13000 – Altered sheared gabbro
Slate above ridge
Slope South side ridge
– serpent. slickensides also
shale (slate) contact
visible above ridge
pyrite disseminated.

26000 – end of gabbro ok. (invalley)
– Shale (black) upon ridge
– Creek flows through fine
gr'ite.

31000 – gr'ite. in Creek.

320 E. Pacific, Rampart

4200 9P193 (repeat)

4600 end of Pearsons Swamp on N side

5400 gabbro blocks in valley

6800 Still gabbro blocks 9P194

7000 - recent conglom. in creek - ferruginous cement

8800 - ghosts of - large mound S. side of Creek

9200 - 9P0195

10,700 - Stream from N 9P196 walked upstream ½ mile

700' - upstream gabbro.

2300' upstream

9P198 right fork (main)
9P197 left fork

ob. of black slate ≤72/90

Walked back to jct.

0700 - downstream

5450 - black slate ≤72/605
& E bank. Some dissem
pyrite.

850 - qtrite.

2600 9P199

2800 trib from W 9P200
2900 " " " 9P201
4300 - Trib from E
P202 - main
P203 Pacific Rainforest trib.

1000' up trib - large
str. - pred. pure gtrib
with some beds of schist
(black) ~~[illegible]~~
bedding ∠ 32°/40 E

A fracture set ∠ 40°/60°W
and mineralized assoc
with it is pyrite dissem over
width of 40'

5200 - Trail from W 9P204.
Toe of ridge to E - blocks, talus of gabbro.
5900 - " " " 9P205
on mainstream → 9P206

7400 - Stream from W
SP207 - main 208

8300 - Trib from S.W
209

8500 gabbro rubble
all along South wall
of valley - last 1000'

11000 - 210 remain.

Finlayson L. July 4/69.
Area G. Pearse

Follow up of Gossan Recce

0400 - swamp. Bry 150°

1100' Bry 150° soil sample taken -
dk. grey clay (some pebbles - B. horizon.
9P211 soil.

2500' reached dry mossy E-W gully.

walked 200' up gully @ 75°
- N. bank - black graphitic phyllite - took rock chips. 9P212 rock chips.

600' up gully N. bank
foliated fels porph (volcanic?) some pyrite
9P213 rock chips

1000 hit end of lake.

320 E. Pacific Rampood

0700 Brg. 180°

2500' @ 180° - no gossan seen.

2800 overlooking two swampy lakes walked around them to the west. (0800)

Brg 210° - 0820 -

2000' qtz sericite sch - due to shearing - small lenses of qtz in shear.

Σ 20/20 SE

drag features indicate hanging wall moved southward. Spec. - also Sent 5 samples of Ott. base 9P214

4000' hit Creek from large lake - walked towards lake to pick up

gossan.

Walked up stream 800' to gossan.
- came back to starting point.

9P215 A & B taken 300' upstream from start.

right side - black.
2, 3, 1 7' wide 0.7
deep mod.
float - glacial erratics.

9P216 A 1900' down stream from 915 ft. to.

9P217 A 2000' from 216
left side - 5 x 0.7

9P218 2000' from 217
right side black ...

picked up by helicopter here

Finlayson Lake July 5th/69
1 mi sheet. G. Pearse 127

W flowing trib. of Big Campbell

0900 at narrows between two swampy lakes. walked along south shore took soil sample 9P219

2 Boro - first silt available in swampy, deep creek 9P220 A.

4500 walked up south bank took soil sample 9P221 (S.i.l) brown pebbly clay & silt glacial.

6000 Silt 9P222 A & B South bank - mound of till - Kame?, drumlin?

8100 Big Canbell Cr. 9P223 Silt A & B 60 x 2 - fast left side - grey

Pacific Rainbow

0700 point of jct with B. Cambell

800(W) small gully - sample 9P224 (soil).

1100 - Creek joining B.C.Cr. at small angle - 9P225 A & B.

2200 blackslate. ε 40/30 E (slope) joints ε 150/90 - filled with ⅛" qtz. ctc. 300' long - dips variable to W also series of fold noses evident (Axial pl. slope?) Rock chip from fold nose 9P226

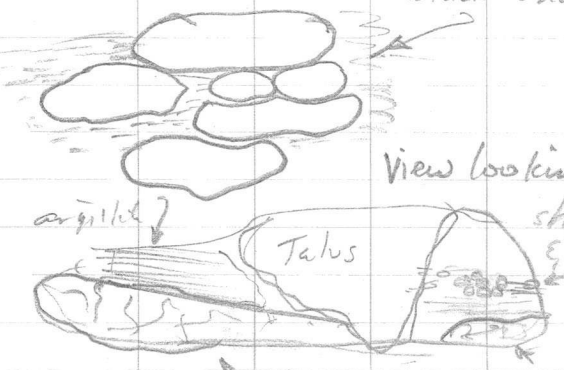
4300 Silt from B Cambell Cr. left bank - grey 9P227

4700 Highly fractured amphibolite? injected with Carbonate. Some pyrite in amphib.

7000- 9P228
grey silt B.C Creek

7900 elev. 100' long
(bank of creek

dk. amphibolitic rock
f. grained. Cut by
abundant carbonate
veins. overlain by
black argillite ∑150/10S
(bedding) at E end
of elev. — pseudo pillows
in argillite



UBC Pacific Rainforest

8700 - shale to lime

11,100 - 9P229

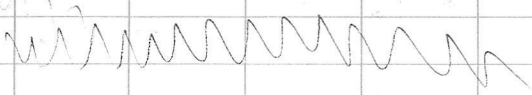
14,300 - 9P230

17,000 - 9P231

20000 - 9P232

23000 - 9P233

25300 - 9P234 - trib from N
5 - 0.2
grey - 2 slow



A12189271

G. Pearse
July 10, 1969.

Traverse W of Camp.

0+00 - 9P268 A center
3' x .2, grey.
- aspen granite gn. ang. float.

2,000 small trib from N (1' wide)
9P269 center grey
main 9P270

2500 rusty seep - heavy stain
9P271 left. grey

3000 Main N flowing Creek.
(100' upstream) 9P272
right. grey

0+00 - jct. of above creeks.

2600' 9P273 rightside grey

5400' 9P274 right, grey.

8000 9P275 - right grey

320 L Pacific Rainproof

walked 700' roughly N to hit NE flowing Creek above jct. 9P276 - 20' wide right

0700 - jct.

2800 - 9P277 right side

5400 - 9P278 left side.

8000 - 9P279

10800 - 9P280

12,400 ote. 60' high "silver" phyllites E0°/45E - some rusty layers (total 10') assoc. with qtz-siderite veins (minor) - one 4" qtz - brown decomposed siderite - one speck of galena noted (concord. veins)

[9P281R phyllite with minor vein material]

12,600 10' dk gray feld(pink)

porphyry sill in phyllites.

14200 9P282

15,500 75' high precipit. otc. waxy silver phyllites. ubiquitous qtz - siderite vein material (perhaps as much as 10% of otc.) carrying minor galena chalcopy & abundant pyrite within veins and in phyllites (cubes) the latter concentrated predominantly along vein phyllite contacts. - veins concordant.

Σ 120/30N

15,800 black highly graphitic phyllite (contiguous with grey phyllites - concord. qtz siderite - abundant pyrite Creek highly Fe stained

320 L Pacific Rainproof

16,500 end of ote. highly pyritized and altered

16800 9P283 left. grey

17500 very rusty boulders.

19,400 9P284

20,600 - end of traverse at jct. - 100 yds. below jct. rusty boulders & phyllites - not examined.

9P285r - graph-phyll. from last ote.

A12/86/191 July 13, 69

G Peace

0 flies over lineaments on photo -- etc. possibly glacial grooving?

0700 small pothole at W end of Lake - traversing westward.

1300 j.ct. of small creek draining lake with main creek - latter muddy & rapid runoff

small 9P286A

main 287A

0700 j.ct. - walked up hill to N glacial till

2600 from Jct. 9P288 A&B right

5200 - 9P289.

7600 - flooding no sample

320 L Pacific Rainproof

9500 main creek stream overflowing banks - no sample.

0000 - jct -

2500 - still no silt - took soil sample - glacial till. 9P2905

5300 - ote offside of creek (Width) - 100' away from treacherous & caos

6000 - Rec. offside!
E ≈ 150/40 N
grey & black phyllitic
some rusty alt in
layer 3" thick.
9P291 A & B.
right - black
15' wide

6200 E bank ste

ditto ∑10°/30 E

Cut by contorted & folded qtz carbonate (siderite) veins - less than 1" to 1'

pyrite abundant in cubes up to 3/4" in phyllites & qtz

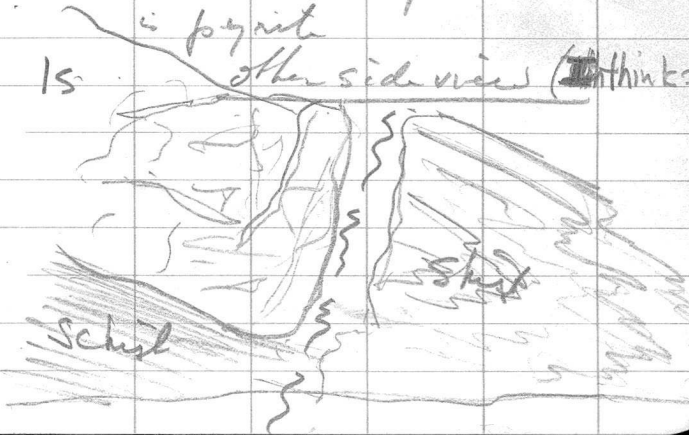
6600 phyllites & limestone high cliffs ∑10°/50E

rocks all highly contorted

ls - grey weathering of calcite & all cut by qtz & qtz-siderite veins - only metallic mineral is pyrite

ls

other side view (I think?)



320 L Pacific Rainproof

6700 – Semi-schist (spotted) abundant porphyroblasts brown (weathering?) rhombs? Staurolite? cubes of carb. – Gossan marked on other side not too spectacular.

9450 – walked ½ mi on Bng 160° to intersect creek where it bends Eastward. Still no possibility for silt.

0000 – right angle bend.

2700' 9P2925

5300 – no silt or soil available.

6000 Soil Sample 9P2935

7400 – ~~Silt~~

S → Creek

9P2936 A & B

July 14th
Wolverine L.

Notes lost.

No photos.

G. Perry
July 15th, 69.

Examine Serpentine near
Francis L.

ores on mountain near White limestone peak.

Limestone ≤ 10/30 W

15' of black jointy/kinky underlies K. - all underlain by serpentinized peridotite.

asbestos best fibre 3mm mostly less than 1mm. - occurs intermittently being absent in places where fractures are few. The best rock appears to be highly fractured yellow-green and dark green serpentinite having black alteration borders on either side of the fractures (or asbestos). Much of the asbestos

320 L Pacific Rainproof

appears to be siliceous
elsewhere yellow green waxy
serpentine with fibrous texture
(and chrysotile) silky fractures
- nickel test - neg.

- most asbestos was observed in pebble or saddle and smooth contoured slopes which reflect more intense fracturing and serpentinization.
- otherwise, much of the "solid" rock outcrop is dk green to black f. grained peridotite with moderate serpent. and caries little or no asbestos.

- several ages of fracturing and fracture filling is evident - some pre date and others antedate the asbestos filled veins - the latter however appear to be among the related to be

formed.

In a general way, greatest serpentinization occurred near contacts with coarsely rock, - limestone, black phyllite and green bio-hornfels.

Descending down N slope to Stream flowing W in valley between the serp. mountain and the rest to the north.

Brg approx NW along spur of sediment - grit, chert $\Sigma 150/50W$ - perhaps overlies limestone.

0500 Brg on Creek - 270° at divide

500' soupy little pond.

800' - grit & chert $\Sigma 150/20W$

320 L Pacific Rainproof

900 blocks of sheared qtz pebble conglom

2300 - GP304A

3500 - Creek coming from S GP305A

3900 GP306A, B.

5700 - GP307A & B. angled over to next main creek further N after 306 - lost creek in bush & swamp - finally located it here -

7700 - Creek coming in from South main GP308A & B trib GP309A

A12189-248

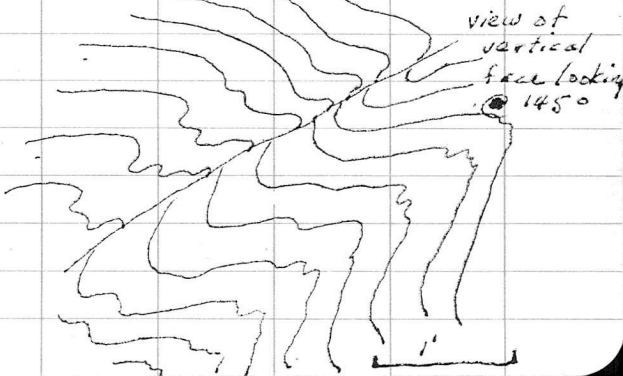
July 18/67.
G. Pearce.

North Lakes Area.

0400 N side of ridge

Feld augen gn rubble - at NW facing steep cirque

Appearance of NW striking schist & gneisses dipping gently easterly - layer 30' thick of granit paragneiss? - highly contorted - overlies green coloured chl-bio. qtz sch. - gneiss weathers light buff to orange and is blocky. The sch is finely laminated, dk greenish grey in clr. and flaggy - detail of gneiss structure is as follows:



320 L Pacific Rainproof

fold nose – axis pl. 0° in direction ≈ 100°

fol. sch ≤ 42°/155

contact gn/sch near rim of cirque

Walked S climbing up to summit ridge – approx 50' vert up from sch/gn contact. granitic gn becom fold augen gn. for some 150 vert. then back to fine granitic gn. becoming more thinly laminated with increase in biotite in last 20' (vert) until ridge top – very fine biot-gt-fold gn (almost sch)

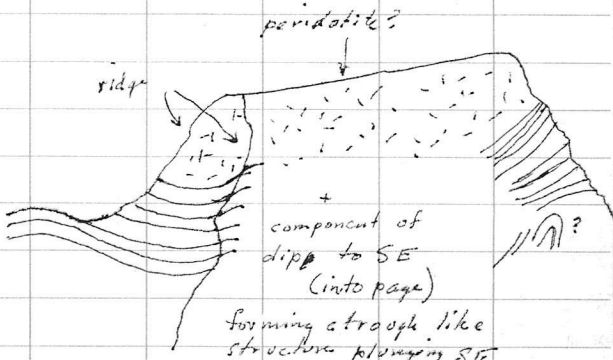
Schematic illust. looking SE

A layer of feld augen gn (definitely mappable) is overlain and underlain by granite gn. Also it appears that biotite increases in the gn going away from the feld augen gn contacts. above & below.

ξ of sch-gn at summit of ridge 15°/29E

Walked @ 190° along ridge 1200' to summit - feld-augen gn!

View looking across camp to opposite ridge (view dir. 140°)



peridotite? (confirmed by Godwin) appears to be resting in a basin

320 L Pacific Rainproof

of sads - perhaps lopolithic, laccolithic, or sill-like.

(careful examination of photos and units with attitudes could be accurately mapped [except perhaps for fold noses!]**)

looking due south from summit a ridge is visible with a dip slope
$\Sigma \approx 160°/35E$

50' below summit going S.
sch contact $\Sigma 147/35E$

75' further down
$\Sigma 160°/18E$
biot sch with abundant qtose layers intercalated with good qtzite. also hnbd-biot sch - occasionally blocks of augen gn. may be from above, but in places this float is abundant. intercalated?

1000' from main cirque creek on N bank of steep slope tributary - abundant muscovite granite float.

Reached open outwash fan - heavy Fe ooze - source between here and ridge on up cirque valley.
Sp 9P310

- main creek - 9P311

0+00 Main creek.

1700' Small trib from N
9P312
and main 9P313

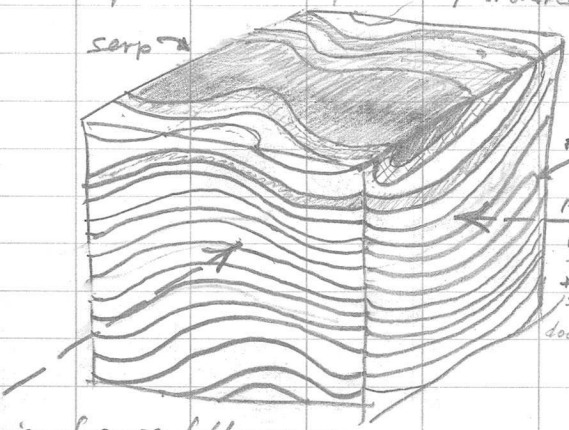
2100 - 9P314 - large trib from W

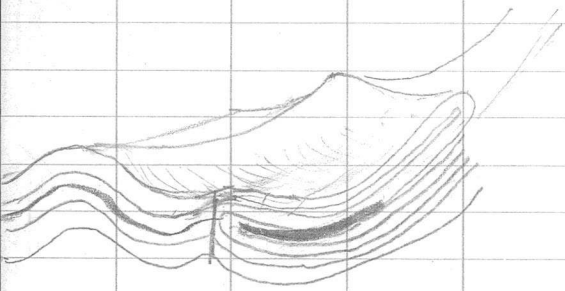
4700 - large trib from E
(scar on mtn.) 9P316
main creek — 9P315

picked up on open outwash fan

320 L Pacific Rainproof

from view of opposite ridge, perhaps 3 phases of folding can be postulated.





A12693-379 19/7/69.
G. Pearce
Trib of Campbell Cr.
To the road.

0700 - marshy creek

750 9P317A - one only

4800 - 9P318A - dug from bottom of channel.

5000 - long swamp., thick, peat

10 300 end of swamp
9P319A & B.

12 700 - 9P320A - marshy.

15 600 - 9P321 A & B.

20, 900 - 9P322S (soil)

lost creek in large swamp.
cut over to Big Campbell

320 L Pacific Rainproof

Continued N 3000' feet
hit creek above jct
with Big Campbell

∴ 9P323 A orgs
Walked out to road.

AM326-284 & 165. July 22, 1968

Traverse - Muk Creek & Pearse Area.

0700. Top of knoll - float & rubble of calcareous greenschist.

walked down to N slope - broken rubble etc. of med grey-green argillite with disseminated pyrrhotite

Walked Eastward to ridge.

flat lying calcareous greenschist (overlies rubble) open drag fold. E-S axes kink banding.

Axis 80° pl. 14° clockwise rotation.

Appears to be dipping Eastward @ 15° on E side of ridge.

320 L Pacific Rainproof

5000' from ote ≃ N. Lt Creek. 9P335.

0000 - down Creek.

2000 - Trib from S 9P336

1150' — " " 9P337

2800 — 9P338.

5400 — 9P339.

8400 — 9P340

9300 — 9P341

0800 - left creek — Mtn Brg. 325

1100 - down left from eska to small creek 9P342

2400' on esker new brg. 270° (0400).

700 – 9P343

7000 – reached ridge of v. v. c.gr. gneissic gr?

feld. up to 1½" – strongly foliated/gneissic aegm gr appearance feld. twinned – carlsbad ± polysynthetic?

commonly a shell of gr enclosed aegm of feld. (phenocrysts?) biot & mafics.

brk. E70/65S.

0900 headed down to little lake bounded on N by esker

3000' South shore of lake

320 L Pacific Rainproof

Walking westward 0700.

1700 - N bank of Creek
- Greenschist (biot, chl.
qtz sch
E20/12°E

3400 Creek → S
9P34V

4900 - Obc E bank
grey poly lithic
E155/38E

1:50,000 tracing. July 23/69
G. Pearce.

From S of Trench to Hoole R.

Landed in Valley to S.W of
Starting pt. to pick up samples
9P347, P346 - flows to
saddle in next valley to begin
traverse.

Saddle - Inst. & dolom. th
below pred.
P-1 Dolomite
p-2 grey ls.
p3. black platy ls
p4. black slate.

walked down stream.
N side black slate & ch
carb. fract. fillings
$\equiv$ 115/90
Prom Joint (2 or 3/foot) $\equiv$ 25-/80W

Three way jct - main - 348
right fork 349
left fork 350

320 L Pacific Rainproof

1000' Calc. tufa ; rc comp.
lining comp. overlies black slate. for last 500'
slate ∈135/70 E
lin (crenulation) 17° @ 315

1600' - trib from E
9P351

2200. trib from S
main 352
trib from S. -353

5300 - dry stream -
trib enters alluvium
½ mi away - no samples.
chert 9P354 A & B.

7300 trib from N
main 355
trib 356

8000. trib from S.
9P357

10,400 - 9P358

11,400 - black carbonaceous shale
left creek cutting across to intersect main creek.

9P359.

0700 —

1200 - Small trib from W
9P360 A

2600 9P361

5300 9P362

8000 - passed large beaver pond ½ mi long -
8 dams - holding back

320 L Pacific Rainproof

total of ≥ 20' of water.

here QP363

10,600 QP364.

12,500 hit trib from E
trib 365
main 366

14,600 trib from W 4' right
QP367

15,900 sample main
QP 368

16,200 trib from E
QP369.

19,500 - aft. E side
grey calc. phyllite -
finely calcitic ls.
Σ 120/80S
some reversals of dip
noted.
Lineation horizontal
(w rinkling)

rusty part. qtz veins.

Float rock chip 9P370R
a/s 9P370A & B

22,200 - 9P371 A & B right side

24900 - 9P372 right side

26,000 pick up in open glade
few hundred feet E of
Creek.

flow SE // to Tributary
Trench → pick up
Silt samples high in
Cirques

1st 9P373 - left & Right
5' gossan

2nd 9P374 both right
3' gossan.

3 9P375 & 9P376

Tyne L. July 27th & 28th

Chopper Hopping

QP 390 A&B. L, 2, grey 20'

QP 391 L, 3, grey 20'

392 right fork - 8' red

393) left fork - 20' red
grey.

394 - right - 7', brown

395 - left - 20' - brown

396 right left 5' grey

397 left, right 3' grey

398 - left fork - R&L. brown 3'

399 - right fork - R&L brown 3'

P 400 - left-bank brown
left silt dry.

qp401 center brown
center 1' Sch.

qp402 L & R. 3' brown

qp403 R & L 3' brown

qp404 L & R. brown 3' sch.

qp405 L & C. red. & Brown 5'

qp406 right fork R & L Brown 3'

qp407 left & R & L Brown 3'

qp408 5' - R & R. Brown

409 R - rock chip from
fold nose? & gossan highly colored
rock - rusty

qp 409 L & K brown 3'

qp 410 L & L 8' brown

qp 411 R & L above wtr brown 3'

qp 412 L & L 3' brown

qp 413 R & R 3' "

qp 414 L R brown 3'

qp 415 R, R brown 6'

qp 416 Rim/K 2. brown 8'

qp 417 3' center 2 brn.

qp 418 LL - 7' brown

qp 419 RR - 9' "

qp 420 dry - center 2 grey 4'

421 L & R brown Dmg
8'

422 –

423 –

424

425

426 3' right^2 red.
rusty rod.

427 [illegible] 3' grey.

428 LR 5' grey

429 RL 5' grey

430 L^2, 5' grey.

431 6' R^2 grey.

432 LL 5' grey

433 " " "

434 R² 3' grey Sest.

435 R² 5-1' grey. "

436 R L 5' grey "

437 LL 12' brown

438 RR. - 50' brown

439 . IR 3' grey org

440 IC. 1' grey org.

441 L.R. 5' brown

442 L-C. 2' brown

443 LR. 8- grey.

444 L-R. grey 4'

3301 Pacific Uniproof

445	L	R	3'	grey diss
446	L		5'	grey and
447	LL	brown	5'	
448	RL	"	5'	
449	RL	6'	brown diorite	
450	R·L	brown	3'	2 gr.
451				
452				
453				

July 30/69

Chopper Hop.

466 main LL Brown 10'

467 6' LL "

468 R^2 brown 6'

469 C^2 " 2'

470 A & B - Bank samples
brown - dry creek

471 brown 3' R^2
Rusty stain

472 L, C, brown 4'
rusty rocks.

473 RR. Brown 5'

474 LL " 10'

July 31st/64
G. Pearse

SE of Type L.

ore in cirque

Examined E wall of cirque - gossan - highly epid & fels. & pyritized granite rock.

* fresh rocks include a variety of acid intrusive rocks - granite, granodiorite & qtz. feld. porphyry (foliated) epid & fels (pink) and ubiquitous pyrite are all indicative of "porphyry" type mineralization.

Spec walked West to crest Sp 495 - L² brown 3¹/₂ min

3000' Westward hill main creek
9P476 A&B L², 10' .3
brown
Granitic hybd - biot granite

0700 Started down creek.

1000' trib from E (main trib)
6' 0.3, brown L² ~~487~~
9P477

2600' 6' brown 0.3 L²
red stain
9P478

5200' 6' " 0.5 R²
9P479

6000 Creek from W 5' R²
brown 0.2 grnt.
9P480,

7300 L² brown B 0.4
grnt. 9P481

9,800 S wall of valley
hybd. granodior

10,000
9P482 - 8' x 1' brown
L2

11,000 9P483 3' x 0.1 brown
centre -
Seepage seeping creek
from S

13900 large increase in gradient
& creek flows over
terrace deposits

9P484 - R^E 10' x 0.8
A brown red
stain on boulders

17000 9P485 A bank
L2 brown
patchy
quite large

22,000 9P486 RC 12' x 1'
Gr. Gnt flow - brown
orange stain

~~23~~ 0700 (½ km down from 486)

487 L^2 brown, 9' x 1'
stain brown

2000' - end of long back brush
glade & back to conifers.

2600 R^2 brown 10' x 1'
orange stain
9P488

5200 Ok in narrow small
gorge - serrate glz
sch.
Σ 80/50 N
drag folds - symmetric
& kink - axis
p/ 37° @ 327°

on reverse fault
Zone 6' across
Σ 360/80 W
with E side
moved up rel.
Countless parallel
to sub parallel.

micro fault
- mineralized with
pyrite & yellow-green
secondary mineral
(ppt, scorodite?)

tectonic chip fault
gouge & adj rock
9P489 R

Silt - 9P489 A.
L 15 x 1' brown, bedding
stained red

Sp.

5300 tributary NW - large
12' x 1' 4490
Shell str Sme
Chl. sch - abundant
qtz veins & pods
// to fol. & ppt
and fine yellow-green
alt product observed.

5600 - Seepy creek bottom
SW 9P491
R brown 3' 0.1

6800 end of site

7000 unsurveyed sed ot. other side (N).

7900 Sandbar (eye shaped) in creek
9P492 CC, Brown
10' x 1'

8100 Ote. N Side - sed

9000 - open jackpine ridge N side of Creek

10,500 9P493 L' brown R' X 1

10,800 - tree blazed on S side

11000 - big on engine
205 - locally mycely

12200 back into open Jack pine

13200 - 9P494 L^2 brown
9' x 1½'

13500 Stream flow South
1' x 0.1 brown
9P495 A

16000 big bend 9P496 A/B
R² brown
15'

A12189-239.

Fyre L. Area. Aug 4/69.

Ridge Traverse then down to Valley heading SW to Fyre L.

Mid of NE trib. ridge

grn-grey schists (psammites) largely qtz + sericite. cut by white qtz, leuco granite and pegmatitic granite (misc.) sills (predom) and dykes.

Σ 33/27°S

lineation (type?) perhaps direction of transport → pl. 25° @ 114°

Spec.

qtz vein often in bedding str.

Walked to NE end of ridge

320 L Pacific Rainproof

0200 · Psammitic sch. (ser bio gtz)
Σ158/24E
1in - p19° @ 125°

400' ser-gtz sch.

900 ser-bio-gtz sch.
Σ04°/22E
few very fine Mn-bearing sulphides

1300 small ang. blk of ampb sch - few fleck. of chalcopy - still ser-bio-gtz sch

1600 - amph gtz ± chl amph sch. below on N side of ridge rusty zone upto 2' and at diff "stratographic" intervals contain disseminated fine cpy & po - some coating fracture surfaces. axis 20@115° recumbent fold traced for ≈ 300 - other rusty zones below may contain cpy.

2100 Psammitic sch still occupies crest but amph, chl-gtz sch occur 10–30' below crest. (at mid ridge spot. first described)

3000 - psammitic sch — here gtz rich

3050 - contact with chl. amph gneiss cut by granite, peg & gtz - mostly concordant. Some seem bi-ot sch

3300 - ditto E 135/28E here a granite contact

back to Landing spot.

0400 followed S ridge - peridotite with gtz carb. all on W side. dyke of gr cuts

Serpent L Pacific Rainproof

serp ultr small body (250') (remnant of sill) overlying ampb sch.

250' endoskarn - carbonate with ampb gn.

400' carbonate with gn.

800' carbon - gn. & psammitic sch.

1000' - ampb bird sch.
Σ 140/50E
Strikes into? psammitic sch.
(nose of fold?)
10' south. ampb sch.
Σ 10°/40E

1100' f.g. black peridotite (pyroxenite) dark alt giving veinlets pods & individual sheaves of talc. discern po - gives

320 L Pacific Rainproof

positive Ni test (strong)

1800 - passed over pram. sch. to jagged sh. - granite

2000 back to pram. sch.

2200 - descending fair sh. shoulder pram. sch. Σ40/38S

2400 - hi sh. qtz sch (or layer of actin. sch.) noted axes of drag folds 27°@ 110° movement direction not determined

2600 serpentinized peridotite contains asbestos fibres very short less than 1mm to appr. 3mm - some of which has altered to talc. distribution not determined but the outcrops represent a small remnant of a much larger sill overlying

schist. Perhaps the other dissected part of the large sill should be examined - all paid down slope except for gr. dyke (see overlay, photo A-11189-239

0700 ab jct with large creek.

2700 main creek 20' x 5' brown sand L-9P497

3300 - rusty soil and angular blocks of granite & green limestone - latter with minute flecks of cpy, po - grains form nucleons of black spots. - very fine - perhaps chalcocite although large grain of chloride also were noted. green colour perhaps due to fine malachite.

3400 – amph schist – tightly folded with granite wrapped around it

looking E

Axis horizontal @ 90°
Fine grain pyrite in granite.
major trend from N

9P498A – Centr granite brown dry

6400 – trend from SE
9P499 R² – brown
15' × 0.3'

Main Cr. - 9P500
A & B
L^r brown 25' x 0.4.

8800 - trib from N

main 9P525 L^r 25 x .4
brown.

trib - 9P502 C & R
brown 15' - dry

9200 rusty seep from right
bank - 9P503.
red

10,000 rusty creek & seep from
left bank
9P584

10,300 trib from S
n'xdry C x L 9P585
C R - grey. 15' dry.
flock pool. chlor. tide
amph sch - some bloom copy
& malachite

320 L Pacific Rainproof