RON SCHEELE 1989

CATFISH

810987

Rock type
color
grain size
accessories, acid
matrix size
clasts %, shape, size
magnetic
altered
mineralized
trend, foliation joints
shearing amt
thickness
appearance
contacts

FIELD

CATFISH JUNE 18/89

JIM / RON

elevation 1150 m camp. #1

looking for official survey post
For 1 claim 10
map 1:5000 1km=5cm

- could not find survey post
- only post was a an obsolete claims post (1979)
- took one rock sample at post at ½ m wide qtz vein

June 19

RON / SIM

Found true location of camp

RON/GERALD/JIM June 20/89

Air photo conversion

distance in mm X 0.754 = distance on work map in cm

Paces 70 paces = 100m

MAPPING ALONG NORTH FACE OF SOUTH MOUNTAIN.

stop #1 black slate
1248m along creek

RON/GERALD/JIM June 21

Mapping north face of south mtn.

stop #1 1248m confirmed rock is
1248m an argillite, 1% mineralized
concoidal fracture
brown to grey weathered
greyish black fresh
very hard silicified
bornite & disseminated pyrite

#6 - Flow similar to #2
Foliation of argillite 84/208
trends between the two
locations (6 & 2) in
an recessive area
- Foliation may be effect by slumping
- weathered tan → brown → grey
- Fresh dark brownish grey
- microcrystalline mafic flow w
mafic phenocrysts 25%

#7 - upper east outcrop
joint 88°/231
joint 85°/177°
well Fractured & jointed
fault 58°/113°
joint 72°/192°
glacial striations = trend 236°
bedding 71°/105°
foliation 74°/146°
- Flow (porphyroblastic)
euhedral prismatic mafic phenocrysts
weathered black Fresh greyish black
matrix weathered tan/buff
Fresh brown grey
aphanitic

- phenocrysts range from 3mm to 20mm
phenocrysts aligned for bedding
71/105° & not visible on
fresh surface
- size of pheno ↑ downstream ∴ top W

Volcanic breccia mafic pyroclastic
weathered
- light buff clasts in a
a dark brown grey matrix
- sharp indistinct contact upper planar
minor undulations 3cm 62/162°, iron stains
53/118° bedding from phenocrysts
clasts possible made up of
flow matrix
- clasts have mafic phenocrysts

#8 15601 1400m
brownish grey weathered
dk greyish black/brown Fresh
with feldspar phenocrysts 5%
aphanitic flow
mafic & feldspar phenocrysts
glass shards present
increasing phenocrysts downslope/NW
foliation 64/300°

15602

Fault zone, red/brown staining
3-4m wide
highly fractured, several joint sets
5m down from #8
rubble zone btw porphyroclastic
flow
gossan & bornite staining

aligned phenocrysts 6//62° ?

#9 - lots of light grey colored volcanic breccia in gully must be coming from further up, look for when doing ridge!
- lots of slicken sides & copper staining
- less phenocrysts in mafic flow upslope

#10
15603 30cm wide aplite sill
1400m cryptocrystalline
buff weathered & Fresh
microporphiti c
host rock is 20%
phenocrystic flow
36/007°√

#11
15604 east of 20% phenocryst flow
1355m similiar to #8 w/th glass
decreasing phenocrysts to 5
tuff/flow
Fresh grey/black
Wthrd. brown/grey
blocky, lacking phenocrysts

familiar familiar 9

June 22/89

RON/GERALD S115

elevation 1185m

backsight to camp 315°

- did soil sampling along north face of middle ridge
- re-did previous soil samples and made corrections
- morning Ron mapped Gerald sampled afternoon Ron sampled Gerald mapped
- Sample S115
  2cm of A, well textured B with lots of pebbles
  - located 10m ~~downslope~~ of adit

S116

~~back~~ sight from camp 001°

1140m

B horizon well developed 4cm

A horizon none or little present

well developed C horizon 8cm

S117 back sight from camp 32°

1130m

2cm of A horizon

8cm of well developed B horizon

B horizon sandy & pebbly

FIELD

S118 back sight from camp 045°
1100m
3cm A horizon
12 cm B horizon
C horizon below
very good profile
beside river's edge

S119 approx 76 paces from S118
1100m 2cm A horizon
10 cm of sandy pebbly horizon
very good profile
beside rivers edge

S120 3cm A horizon
1070 m 2cm B horizon w clay roots, sand
large C horizon w sand & pebbles
40cm
- along river bank
- was difficult to locate
- upstream of large bare
patch on N side of stream

June 23

RON / GERALD

Continued w soil sampling on middle ridge
Gerald sampled in morning
Ron sampled in afternoon
-both slid down snow filled gully and are one for one

5130
1210 m on north side of middle ridge on 20° slope good drainage
2 cm A horizon black humus
"B" horizon & "C" horizon hard to distinguish
sample is a mixture of C & B horizons? (mainly C)
fairly moist soil
medium brown "B" horizon with clay, sand, pebbles & some roots
- sample taken at top of C (B?) horizon

S131
82m from S130
1220m
4cm A horizon black humus
w lots of roots
no visible contact btw B & C horizons
"B" horizon is medium brown
and is sandy is less numerous
pebbles & cobbles of various size
sample is taken on steep
talus slope of rust colored
oxidized scree
sample taken at upper part
of B horizon
"C" horizon fairly wet
- profile similar to S130

S132
1230m - 88m from S131
1-2cm of A horizon
B & C horizon are sandy
& pebbly w roots & are
hard to distinguish
- sample taken at top

of B (C) horizon and is probably a mixture
- area is a steep oxidized talus slope
- rock is fairly dry

89 m from 5132 (1215 elev.)
reddish oxidized boulder
in chalcopyrite, pyrite + (marcasite?)
some some soft brassy mineral
rock looks like a mafic tuff
with feldspar phenocrysts
rock has a sparkly appearance
probably from mica (musc & biot)

5133
1215 m 89m from 5132
A horizon 3-4 cm thick
B horizon absent or indistinguish from C horizon
soil is moderately moist
located on steep slope of North side of middle ridge

C horizon is medium brown
is numerous pebbles, sand
& roots

5134 95 m from 5133 (1235m)
definite color change
NO B horizon
C horizon is brownish/
black and is close to
the same color as A horizon
lots of roots, humus & rocks
less sand & clay present
locate on grassy steep
slope near creek just
downslope of saddle on
midde ridge
sample may contain some
"A" horizon but tried to
get "C" horizon

June 24

Ron
- went soil sampling on north side of middle ridge took approx 1 hr & 40 min to arrive at S134 from camp
- windy morning & overcast

S135
1240m 98 m from S135
soil profile poorly developed sample moderately wet
took soil plan about 10cm down in what looks like the "C" horizon is lots of large & small pebbles, roots & sand
"C" horizon looks medium brown & there is no color distinction btwn A or C, "B" horizon is absent

S136 sample 56 m from S135
1242m
"A" horizon 6 cm blackish brown
"B" horizon absent

"C" horizon brown w lots of pebbles, sand & roots
sample moderately dry
soil taken at upper part of C horizon

S137 went 110m from S136
1260m
no B horizon present
A horizon 6 cm thick & is blackish brown
"C" horizon is same as S136 & tried to take sample near top of horizon approx 15cm from top of profile

S136 100m from S137 1240 m
no B present
soil taken from top of C
"A" horizon 4cm thick blackish brown
taken on steep (grassy w talus) sort of slope
"C" horizon medium brown w lots of root pebbles sand

S139 100m from S138
1240m
profile difficult to find
large "A" horizon 10-15 cm
no B horizon
"C" horizon very clayey
in some pebbles & sand
sample taken near talus gully
below large outcrop
"C" horizon medium brown
"A" horizon black

S140 100m from S139
1225m
large A horizon 10-15 cm
& is blackish brown
no B horizon
C horizon is reddish brown
& was taken at top of C
horizon
moderately wet
among small shrubs

S141 90m from S140
1220m
A horizon well developed is blackish brown 10-15cm no B horizon
C horizon is brown moderately wet & typical texture

June 25

RON / SIM
9:13 am
1208 m claim post backsight from camp 201°
Reads: 'CATFISH 10
(252W)
POST 15
TAG: 119868
Sept. 3/88
11:40 am

Stop #20 backsight from camp 210°
1306m - reddish brown wtd surface
fresh greenish-gray matrix
w/ red surface has
buff color subangular clasts %
ranging size from 1mm to 25cm
Lithic - clasts are hard to see in
fresh surface
- outcrop is reddish brown/orange
and fairly blocky, moderately jointed
- slight mineralization of pyrite
- volcanic breccia (matrix support)

Stop #21 ✓ backsight from camp 200°
1315m - outcrop is 3-4m wide
is contacted above by a
red gossan type rock
- contact appears to be some
sort of shear plane
- rock is hard to break &
seems fresher, blocky & less
fractured
- there are small shear planes
thru it

description is similar to stop #18
wth: rock is lt greenish brown w euhedral
shaped laths of feldspar 1-15mm &
anhedral crystals of qtz 5-15mm
fresh: dk greenish grey w white
phenocrysts of feldspar + qtz in 10%
aphanitic matrix
possibly a diorite porphry
Foliation/joint 85/229°

15357
rock above diorite porphry.
approx. 4m upslope
mafic volcanic breccia
oxidized reddish brown &
tan colored
- fresh surface is purplish
grey aphanitic matrix with
clasts from 1-40 cm
clasts are angular approx 20%
appears highly fractured + lots of
shear planes thru out
less blocky then diorite porphry
no visible mineralization
strong gossan appear w Cu + Fe stains

clasts are lighter weathering & dark matrix (mudclasts?)
compared to the matrix
90°/260 contact btw porphyr & breccia
72°/349° joints / foliation? may be slumped
86°/311 joint "

#22 1360m
Foliation/joint 84/210° penetrative
" " 85/110°
010° bearing to camp
breccia, flow ?
porphyritic grey aphanitic matrix
w/ 1% feldspar phenocrysts 2mm
weathered reddish/brown/tan
tan colored clasts 3-15cm
well jointed + fractured
no visible mineralization

Stop #23
15358 mafic flow (20% pheno)
phenocrysts aligned 72°/226°
brown to creamy white phenocrysts
of feldspar

- dk. grey brown w 20%
white euhedral feldspar phenocrysts
3 - 5 mm blades in aphanitic
groundmass
- alignment of phenocrysts define
bedding 72/226°
- unit strongly sheared w
at least 4 joint sets
- one joint may approx bedding
- very slightly calcareous
- no mineralization
- generally rubbly
- back sight from camp 180°

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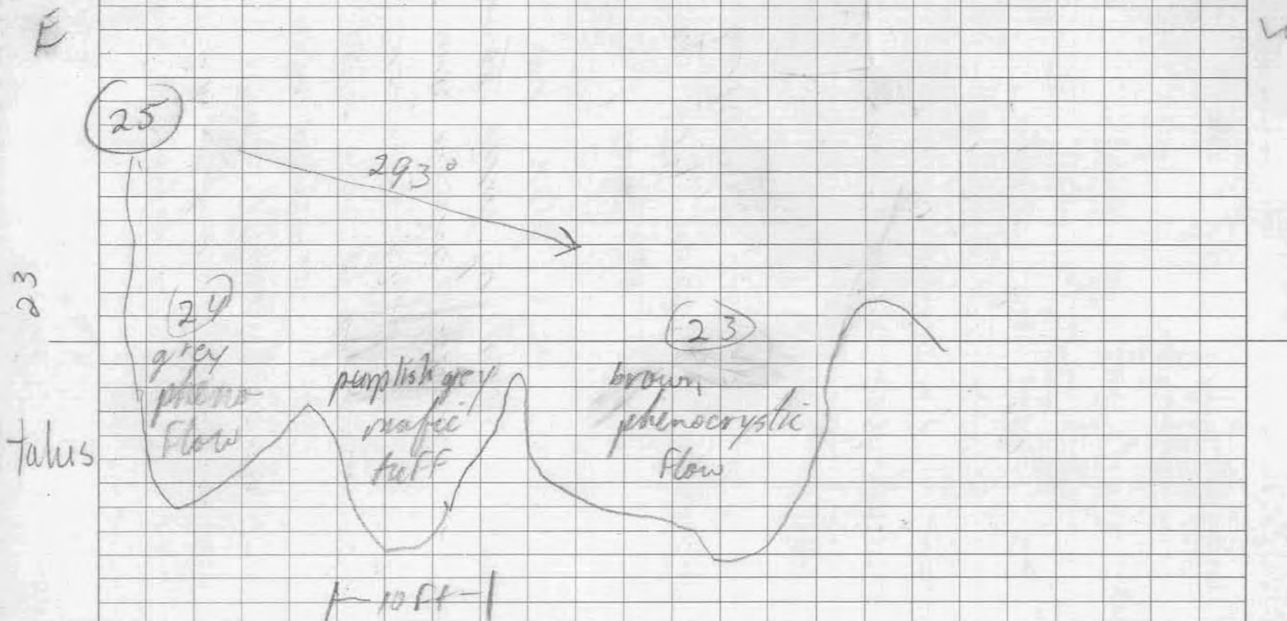
24 mafic flow dark grey
phenocrysts 20%
70/340° foliation
similar to # 23 ↖ 70/160



#26

1405m volcanic breccia
brown to tan color clasts in wthrd.
fresh surface is purplish grey
aphanitic groundmass w
30% angular clasts 1-15mm tan majority
2% clasts are also argillite few 20-30cm
moderately fractured
blocky

#27

15359 backsight from camp 172°
1390m
- Argillite
- black, fissile
- moderately carbonaceous
- with vitreous plant remains 3mm
- 1% blocky pyrite
- possibly inklin formation
- contact btw Lakeview Fm & inklin buried in talus slope
- 63/90° bedding / foliation

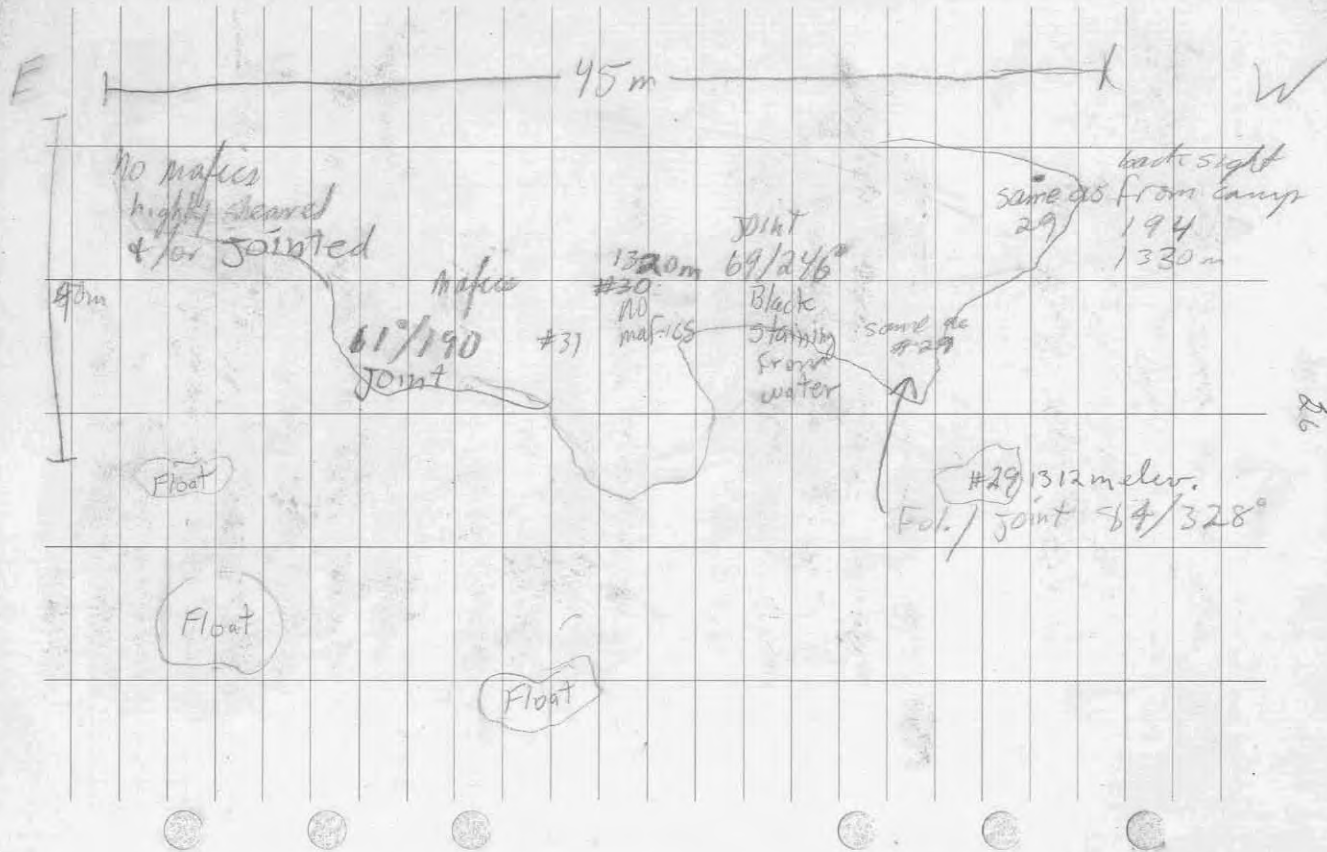
IJL:

#28 qtz vein w trace of arsenic
1420m 4 inches wide
15360 sample w aplite which hosts vein
148° from here to #27
downslope from #27 30m?

June 26

Ron
- west prospecting small outcrops north side of south mtn.
- raining day

#29 blackish brown staining on a
1312m cream/tan/brown weathered surface
aplite
buff to tan aphanitic matrix with phenocrysts of green & white qtz 4-10mm 5%
and black mafic 2-4mm w possible alteration around them (hbl or pyx) 3%
moderately sheared
4 joint sets
no mineralization
resistant (hard to break)
192 backsight from camp


E
45m
W
No mafics highly sheared &/or jointed
Mafics
61°/190
Joint
#31
1320m
#30
NO mafics
Joint
69/246°
Black staining from water
same as #29
same as 29
back sight from camp
194
1330m
#29 1312 melev.
Fol. / joint 84/328°
Float
Float
Float

#30 same as 29 however there are no mafics & it is slightly lighter creamy/buff color backsight from camp 190°

#31 plane aplite but mafics appear plus also nodule of pyrite that appears to have replaced some mafic mineral

32 backsight from camp 186°
elevation 1310m
aplite
non or very little mafics

33 aplite but w/ 1-3m phenocrysts mafic that are beginning to alter (they have brown color around possibly mineralization less are phenocrysts 1-4%
bearing to 27 is 169°
back sight to camp 178°

1312m

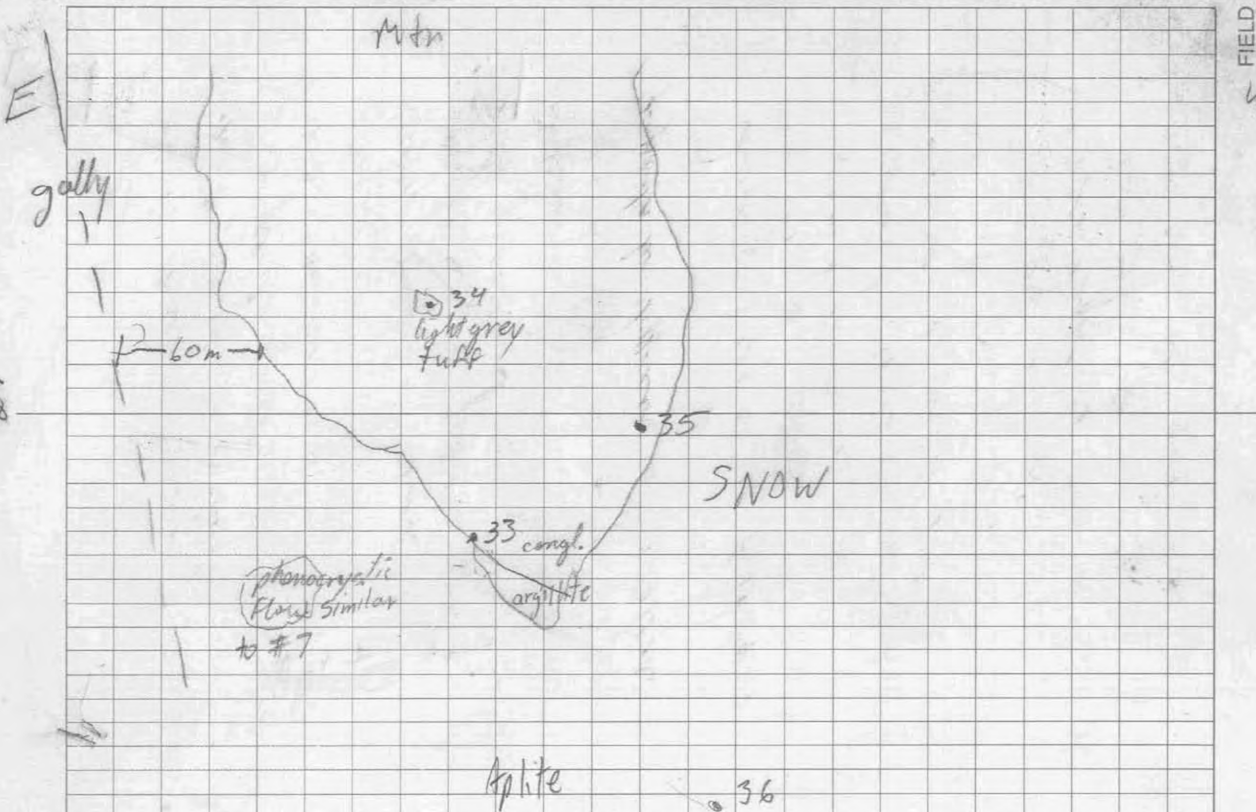
June 27

Ron

- went to map & sample upper and lower contact of argillite unit south with
- gorgeous sunny day
- outcrop 33

upper contact of argillite w pyroclastic breccia appears wavy and gradational over 1 to 4 cm
- conglomerate / argillite contact has shiny sides resulting from shearing
- argillite is typical as described in #27
- breccia has a purplish grey aphanitic matrix w both angular & rounded clasts w the majority of them sub-rounded
- back from camp 161°
- contact plane 72°/132° to SW

15361 sample of breccia / argillite contact chips over 20 cm
- conglomerate also has some rip up clasts of argillite proving to the west is "tops"



34
15362
20m upslope from 33
is a light grey tuff?
- this unit is only 20 cm
and has joints at 77/80° to S.
and at 68°/357° to E.
- backsight from camp 161°
- mineralization 2% pyrite arseno
disem. throughout chalcopyrite

35
15363
Chip over 10 cm of
pyroclastic breccia & calcite
veins or pods
highly mineralized pyrite 3%
calcareous

36 argillite outcrop ½ m²
possibly lower contact w/ aplite
backsight of 157 from camp

37 argillite outcrop
back sight of 163° from camp
back sight of 281 from 36
bearing of 287° to 38

38 black argillite

39 upper contact of argillite w
~~siltstone~~/tuff ✓
matrix of tuff is purplish grey
weathers surface looks brownish
grey + has a salt + pepper appearance
- also has stringers of argillite
- grain size as aphanitic
- argillite is very carbonaceous
- back sight from comp is 1.71°
- foliation/contact plane is
roughly 50/140
- joints 86/224 ✓ + 71/360 ✓
- contact occurs a base of outcrop
of mtn.
- 15364 chips of rocks over
contact 30 cm (just tuff)
- bearing of 154° to 27 (5359)
which is downslope about 70m

15365

reddish gossaneous area
5m below caved-in adit
of north face of southmtn
rock is a purplish grey
tuff
has mineralization in small
pods possibly altered arseno

15366

aplite w qtz veins 5mm
thru out
arseno mineralization
back sight to camp 185°
about 25m E of #31

June 28

Ron

went mapping + rock sampling of main gully up from camp on north face of south mtn.

40 15367

- banded gneiss w/ qtz veins
- mafic bands are dark green to black + are approx 1-2mm in width
- felsic bands are cream to white and are approx 1-3 mm in width mainly qtz
- width of bands varies considerably over outcrop 1m to 10mm becoming more felsic or mafic
- qtz vein is 300cm wide and is heavily shearing w/ slight mineralization + alteration
- back sight from camp 161°
- trend of mineral lineations 329° Dip
- blocky, prominent, w/ some Fe staining

41 15368

- aplite cream to buff aphanitic groundmass w/ green qtz phenocrysts 4% from 3-5mm
- 1-4% brown specks probably weathered mafic ~1mm - 3 mm some lath shaped

- brownish red / tan weathered surface w Fe staining
- no visible mineralization
- highly fractured / jointed
- typically the same appearance in outcrop semi recessive

15369

aplite

- same as 15369 w the exception of a decrease in # of ph. phenocrysts to 1%, outer surface is more oxidized w visible mineralization of pyrite + arsenopyrite < 1%
- outcrop appears to be fractured to slightly larger pieces 8cm x 4cm x 4cm average

15370

- aplite
- has changed color from a creamy white/buff to a pale green
- composition wise is same as 15368 but now contains biotite? & phenocrysts of pink feldspar 1-2% approx. 3-4mm lath shaped
- rock is harder to break (impossible) and is now semi prominent
- visible mineralization of pyrite <1%
- outcrop is whitish grey instead of the reddish brown color
- outcrop is less fractured and breaks into larger pieces
- outcrop has within it recessive areas which contain the creamy white/buff aplite
- contact of the different color aplites is planar & sharp
- back sight from camp 160°

* color change may be due to staining but change in hardness may represent a compositional change

FIELD

15371

aplite

creamy white / buff aphanitic groundmass w green qtz phenocrysts to 3-5mm 2%

- similar to 15368 however
- weathered surface is extremely rusty (oxidized) + gossanous and appears highly sheared + fractured (folded)

15372

qtz vein

creamy white w green / gray weathered surface (from arsenic)

qtz appears very vuggy

full of green alteration minerals

medium to coarse crystals

w shearing thru out

- aplite host has turned greenish white w no visible mafics
- massive arsenopyrite mineralization
- vein 82/090° roughly, dip towards South

42 phenocrystic (20%) mafic flow
see #5 description

15373 q/z vein within
banded gneiss
vein (augen) is 90cm across
appears to trend southerly
- q/z is white, very fractured
with visible pyrite +
Fe staining

June 30

Ron / Gerald

- went mapping + rock sampling
in Boundary Range metamorphics
close to gully (contact of Intermontane
Belt + Coastal Plutonic Complex)
-

15707 banded gneiss/schist
- felsic bands to 2mm
- mafic bands to 5mm
- feldspar laths 1-3mm visible ~5%

medium grained
slight shearing w yellow & red staining
- visible pyrite disseminated 1%
- rock appears green (pistachio) w alteration minerals like epidote, chlorite
- outcrop appears fairly massive and is prominent & hard to break
- foliation 80/322°

15708

- banded gneiss
- felsic bands 2-10mm pale greenish/white
- mafic bands 3-12mm dark green
- fine to medium grained
- visible pyrite & some chalcopyrite 2% in most of rock
- epidote visible in felsic bands
- outcrop is prominent & compositional banding is quite evident from

differential weathering
- weathered surface is brownish/grey w occassional rusty patches
- foliation 70/330 & 80/340° = 75/335

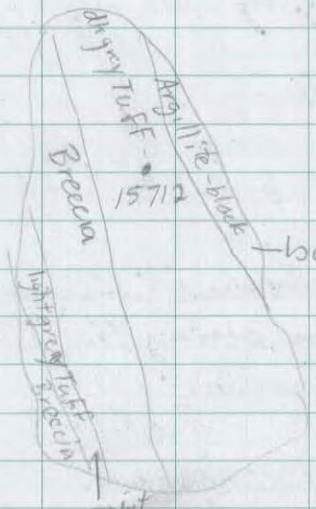
15709 feldspar porphyry (diorite)
greenish/dk grey aphanitic groundmass w feldspar phenocrysts 10-25mm 20%, qtz green 1-5mm 5% & biotite 1-5m 5%
plag. are creamy white fresh and are creamy/buff weathered
weathered surface is brown
contact w aplite is sharp and wavy 1-5mm
outcrop is prominent
slight mineralization < 1%

15374
- oxidized RED/ORANGE aplite
- mineral mainly weathered out red or black

15375

shistose gneiss
maint. felsic bands
alignment of platy minerals
range of pale to dk green
w/ rusty weathering
disseminated pyrite thru out
3%

42



Argillite - black, same as #33

Tuff greenish grey w odd pod of green qtz, lta grey clasts disseminated pyrite throu-out 1-2%.

15712 contact w argillite is sharp & semi planar

Breccia

dk greenish grey aphanitic matrix w clasts ranging in size from 1mm to 70mm

matrix supports

lapilli 1-5mm majority 35%

several large bombs & clasts of

- argillite clasts 15%
- cast of tree branch (calcareous)
- lapilli weather creamy/buff
- bombs weather tan/brown
- argillite clasts are black
- weathering surface appears wavy from weathered out lapilli

43 - lt. greenish gray Tuff
aphanitic groundmass
heavily sheared & rubbly
weathers brown
- also lapilli tuff/breccia
- same as breccia #42 but
less large bombs & clasts
of argillite

44 - greenish grey Tuff
15713 no visible mineralization
- aphanitic groundmass
- same as 43

45 crystal tuff
dk greenish grey
crystals are 1-2mm lath shaped 4%
& also, circular crystals of
green qtz 1-4mm 4%
aphanitic matrix
weathers brown to grey
no mineralization evident
calcareous → calcite veins 1-2mm
50/302° foliation ?

15714
sheared qtz veins w/ in
banded gneiss
some very massive pyrite
w/ in qtz

15710 red/orange oxidized sphlte in gully
15711 weathered out pale green arsenopyrite
vein

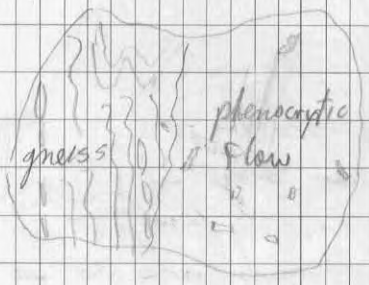
July 1

RON

- went mapping w/ in Boundary Range metamorphics around south mtn. towards its south face

15376 10% phenocrystic flow ypanitic groundmass is lt green/grey
- laths of feldspar appear same color as groundmass & are hard to pick out except by there "gleam"
- on weathered surface clasts are creamy/white and are euhedral 1-4mm 10% and the groundmass is brownish med grey
- calcite veins cut thru flow where micaceous minerals occur
- little mineralization
- outcrop appears polished from flowing water & mod jointed

- contact is gneiss on east side of exposure
- gneiss has greenish white felsic bands qtz 1-3mm & brownish mafic bands of biotite which have schistosity
- gneiss is weathered tan/brown and has discordant veins of calcite which appear to biotite
- outcrop is again polished from flowing water & is mod. sheared
- gneiss also has boudenaged qtz veins numerous that are folded, faulted, // to foliation
- foliation 73°/354° ✓
- backsight to camp 122°



looking upslope to the south

15377

aplite pale green
weathered orangish / buff
contains brolite phenocrysts
2-4mm 5%
- mafics have red weathering
rims around them
- shear planes have more
build-up on them
- phenocrysts of feldspar 6mm
pale green 2% also visible
(perhaps more hard to see)
- slightly shear w red
oxidized stain (minimal)
- arsenopyrite was found in
rusty colored piece of aplite

15378 ~~phenocrystic flow~~ → f.g. aplite ✓
- med.-greenish grey w
lt grey bands, vcky fine grained groundmass
- feldspar phenocrysts range
in size from 1mm – 5mm
and appear very fresh 2%
- brolite phenocrysts

are 1-4mm and appear as anhedral irregular shaped masses and possibly in dark streaks 10-15%.
- almost looks like meta SST in one area!?
- rock shows flow banding perhaps?
- slightly calcareous along thin 1mm calcite/quartz vein where chalcopyrite is visible
- calcite vein occurs // to M. grey band
- breaks easily into "flint like" pieces
- weathered buff/grey/cream
- bands are approx 1cm wide and are mainly planar but some are wavy
- has microfaults & slight shearing
- contact w/ gneiss is sharp & wavy with flow looking highly fractured near contact & a chilled margin approx 1cm
- bands foliation 70/070°?
- very fine grained almost cherty looking for 5cm near contact

15379 shist / gneiss
felsic & mafic bands
grey fresh surface
& rusty weathered surface
rock is very sheared &
easily to break
- outcrop is rubbly &
semi prominent
- laths of feldspar 1-2mm 10%?
- pyrite & chalcopyrite is
visible disseminated thru out 2%

46 mafic tuff
dk. grey aphanitic groundmass
1-2mm lensoidal casts
lt. grey 5-10%
mod. sheared
hard to break
wavy sharp contact with gneiss undulations 3 cm
aplite
- pale green / creamy buff
aphanitic groundmass w
weathered red rims around
mafics 1-3mm 5% biot?

rusty color on outside + mod. sheared

diorite porphyry

- dk grey aphanitic groundmass w phenocrysts of feldspar 2-10mm 20% & brown phenocrysts of biotite 2-5mm 5%
- slightly fractured
- no visible mineralization
- weathers brown to creamy/white plag xstals

looking southward uphill

47 aplite
pale green very fine groundmass
w/ phenocrysts of biotite?
1-2mm 20% & feldspar 1-2mm
10%?
- rusty weathered surface
mod. fractured & rubbly
- red weathered rims around some
mafics.
- jointed into slabs 15-20 cm

15380 chlorite-calcite schist
highly altered
calcareous
fine grained
visible pyrite < 1%
greenish grey w/
slight banding

July 3

Ron / Gerald / Jim

- went rock sampling south face of middle ridge
- established grid over intrusive area
- 25m interval southerly
  5 rock samples E-W 3 intrusive 2 host
  plus any veins

Described elsewhere

75/10E/V
qtz vein 74/333° ✓

145/30W/V qtz vein 78/62-90?
roughly / Folded

140/25W/V 15460
qtz vein 85/073
massive arsenopyrite

150/25W/I 15479
fine grained aplite
creamy/buff
qtz phenocrysts 3mm 1%
mafics 1mm Wolbrotite possibly hornblende
no visible mineralization

140/25W/V 15460
qtz highly weathered out
arseno (scorodite)
massive arsenopyrite bands 25%
w some pyrite cubes 1% 2mm
white w greenish weathering 85/073°

150/25W/I 15462 Pf
aplite
creamy/buff w greenish tint
weathered cubes possibly arseno or pyrite
reddish brown weathered surface
2% 1-3mm
fried grained sugary texture
anhedral qtz grains 3mm 1%
mafics 1-2mm <1%

150/68 W/H 15464

- med green/grey
- silty argillite
- foliation developed
- sdt grain size
- may represent a silty shale
- Pre-Permian metamorphics
- metallic mineral <1% brassy/silver

150/66 W/I 15463

fine grained aplite
sugary texture
arsenopyrite fine veins & blocky 6 mm
pale green/buff
rusty surface
<1% mafics

145/30 W/V 15461

qtz vein
blocky bands of arsenopyrite 20%
possibly some pyrite <1%
major vein > 10 Ft
sloradute weathered surface

78/062-090° ✓ = 78/076

· 150/5E/H 15458

med. grey argillite is silty banded
foliation developed mod.
slightly folded
PPm
clay-silt grain size
no visible mineralization

· 75/10E/H 15444

quartz feldspar schist
eye shaped qtz + feld. xstals w 2-3mm
biotite flakes encompassing the qtz

PPm
medium grained
no mineralization
med. grey/brown w white xstals
also med greyish green
silt size
massive
PPm
possibly tuff or siltstone
protolith

· 75/80W/H gneiss 15439
lt green bands 10 mm (qtz rich) w
alternating dk brown 3mm of
mafics
fine grained
foliated & banded
sedimentary protolith
rusty weathered surface
no visible mineralization
PPm

75/10E/V
75/0W/I
75/30W/I
75/78W/I
top/0W/I
} left behind

July 4

Ron/Gerald/Jim

continued rock sampling grid on south face of middle in coastal intrusives
aplite

- traverse 225 m
- west contact of aplite is covered approx. 3½ m west of base line
- samples 225/18 W/I and 225/25 W/I are double the regular size and will be used as controls for lab accuracy
- east contact of aplite is covered but is approximately 15 m east of base line

225/18E/11 15480

fine grained, silt size
metawacke
grayish med green
felsic lenses
slight foliation/banding
PPm
pyrite visible < 1%
rusty weathered surface
heavily sheared

225/18 W/E 15479

fine grained aplite
sugary texture
pale green/creamy color
weathered tan
coarse qtz phenocrysts 3-4mm green 3%
coarse feldspar " 2-10 mm cream 1%
biotite & other mafics? << 1%
heavily sheared
no visible mineralization

225/25 W/E 15478

fine grained aplite
sugary texture
creamy white
weathered tan
coarse qtz phenocrysts 3-4mm green 2-3% anhedral & square (qtz)?
feldspar phenocrysts 1-2mm cream < 1%
biotite lenoidal shaped 2-4mm brown 1%
some internal staining
pyrite << 1%
heavily sheared → hairline fractures

75/30W/I 15441
fine grained aplite
sugary texture, creamy white to pale green
coarse qtz phenocrysts 5-10mm 5% cream/green
no mafics visible
arsenopyrite cubes 1%
qtz filled hairline fractures
weathered rusty tan
heavily sheared
some weathered out cubes possibly arsenopyrite

75/10E/IV 15443
qtz vein in PPm
highly sheared
no visible mineralization
74/333°

Top/0W/I 15423
fine grained aplite
sugary texture
pale green/creamy
coarse qtz phenocrysts 2mm 1% green
mafics 1mm "specks" 1%
rusty weathered
no visible mineralization

15/BW/I 15442

fine grained aplite
sugary texture
qtz phenocrysts 2-3mm anhedral & square 3%
feldspar phenocrysts 4-10mm 2%
mafics 2% weathering brown
pale green → orange white
fractured w/ qtz filled hairline veins

75/75W/I 15440

fine grained aplite
microcrystalline → glassy
pale green to pale greenish white
→ near 2Pm pebble contact
rusty weathered out spots → mafics ?
brown internal staining
heavily sheared

Shear Zone

approx. 10m wide 50m long
striking approx. 013°
heavily fractured w/ rusty areas

July 5 groceries 60

July 6

RON - went mapping on south & east side of south mtn

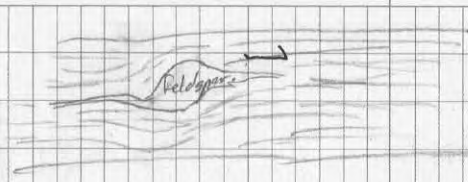
- beautiful sunny day, very humid

48 1237m elev.

- qtz, feldspar biotite schist
- greenish grey (med.
- fine grained
- foliation mod. develop.
- felsic bands of qtz feldspar interlaminated with mafic bands of crenulated
- biotite flakes
- visible py 1%
- weathered tan/brown
- possible protolith dirty sst.
- RPM

49 15390

1255m quartz feldspar biotite schist/gneiss same as 48 except more foliated large augen shaped xstals of qtz 1-3cm 1%.



fine qtz veins crosscut foliation (banding) and fracture surface contain py. chpy qtz vein 62/042 8 cm apart foliation 78/320°

50 fg. aplite
lt. green
rusty specks 3%
no Sp visible
feldspar laths 1mm < 1%
rusty weathered surface
mod sheared

50 1/2 shear 74/163°

51 cg. biotite qtz schist
white + brown banded, fol. well devel.
mafic (biotite) bands 1-3mm
felsic (feldspar + qtz) band 2-4mm
augen shaped feldspar xstals 2-3% 4-7mm
possible protolith tuffy SST.
moderately sheared

wthrd: tans/brown
PPm
elev. 1360

52 aplite
1360 m elev.
fine grained
cream/pale green
feldspar laths 2-4mm 1-2%
mafics wthrd rusty 2-4mm 1-2%
no visible mineralization
sugary texture

53 diorite porphyry
1365 m elev
microxstalline → v.f.g. mafic
groundmass dk greenish grey
feldspar laths 5-10mm pale green
to creamy white, some stained rusty 20%
mafic phenocrysts brown (biotite) + may
~~include metallic mineral~~ 3-6 mm 10%
rock seems heavy for its size
moderately sheared

- not able to see any alignment of crystals
- outcrops weathd gray w cream plag. phenocrysts

54 aplite
1360m

fine grained → pale green pass. near contact
cream buff
weathd rusty
mafics 2-4mm 1%
fractures 1-2mm filled w qtz & fsp mafic
moderately sheared
sugary texture
rubbly outcrop
no visible min.

July 7

Ron/Jim
- did mapping area south of south mtn
- determined claim bdry. & helicopter plan for tomorrow
- hot sunny day

saw 7 goats + 13 caribou.

July 8

Ron

- went mapping on south face of South mtn
- hot humid day, lots of mosquitos
- got dropped off by helicopter
- looking to determine contacts of muJv + muJc and also anticline syncline pair as shown by Mitchell
- slice of triblin may be present closer to camp

MuJc - clast supported congl. derived from Triblin Fm. siltstones and argillites

MuJv - variegated pyroclastic lapilli tuffs, bladed feldspar porphyry flows

top ↑
- ukg
- muJv
- lJLi
- uTS
- P-Pm

#55

1520m beside creek

dk grey mafic ash crystal tuff
microcrystalline
no visable mineralization

clast supported congl.
matrix greyish green coarse sst. (dirty)
weathd grey / brown / tan
clast subrounded to rounded
1-6 cm dominantly 4cm
range in color from light sst clasts
to dk. siltstone + tuffs
no visible min.
- some silty mudstone clasts are laminated
- slight rusty weathd.
- bedding 45°/110. dip

1530m aplite 15393
fine grained med green
weathd tan/buff
feldspar phenocrysts 2% 1-3mm
no mafics

56 lapilli (crystal) tuff 15394
1705m aphanitic dk green grey gdmass
lapilli 1-2mm felsic 10%
also lapilli 4-5mm same color as gdmass 5%
also lensoidal to irregularly shaped
felsic crystals (qtz) some 2cm long bands 1mm thick
3%

crystals 1-2mm them too small
to recognize
weathered surface shows
lapilli eroded out

57 aplite 15395
1715m fine-med gr.
lt-med green gdmass
phenocrysts of plag qtz biot
biotite 1% 2-3mm
wthrd cream/buff
euhedral plag 3-4mm tr 5mm
no vis min
blocky outcrop

58 15396 sheared mafic tuff.
1730 m rusty wthed.
70/325°
dk grey microcrystalline grdmass

59 mafic tuff
very blocky & jointed
85/070 joint/shearplane ✓

60 aplite
fine - med gr
lt-med green grdmass
phenocrysts of plag qtz mafics
mafics 1% 1-3mm
wthd cream/buff
plag 1-2mm
no ves smm
same as #57

61 mafic pyroclastic breccia dk grey
w/ black & grey lapilli 4cm
& black specks of glass 2mm 3%.
fine ground

62 MuJV
1815m
contact btwn congl & tuff
lapilli (crystal) tuff
dk grey grdmass
lapilli are rounded qtz 3-4mm 1%
microcrystalline
lapilli of same comp as grdmass
2-40mm & rev hard to distinguish
small laths 1mm 2%
mthrd dk grey/brown

63 48°/122° bedding ✓
clast support congl.

64 43/100° bedding ✓
clast supported congl.

65 15397
1790 - rusty coarse gr. sst
& congl.
- sst is med. grey salt & pepper
- greywacke, well cemented
- clast supported congl.
lt & dk grey clasts 1-4 cm

#66 - med grey lapilli tuff
- lapilli slightly darker but
- extremely hard to pick out
- approx 6 cm angular
- microcrystalline

1539B med. grey/pk green lapilli tuff
#67 weathers pale green 5mm abound edges
lapilli cream 2-3mm 2% green 2-3mm 3%
sub round to angular, hard to pick out, w/thin brown
mod sheared microcrystalline groundmass, very rusty w/thin
#68 laminated lapilli tuff
1640m top of snow ridge South w/in:
32/120 bedding

July 10

Ron / Gerald

went mapping north face of middle ridge
hot sunny day

lower adit
back bearing to camp 315°
elevation 1233m
- found sardine can w expiree
date of 1949

foliation of PPm at contact
89/322° elev. 1270m
90/322

foliation of PPm
85/360 elevat. 1325m
backsight from camp 318°

foliation of PPm
82/316 elev. 1332m
backsight from c. 346°

15754 aplite
elevation 1340m
fine grained, creamy/buff
sugary texture
w/red rusty color
moderately sheared
typical aplite as on south mtn.

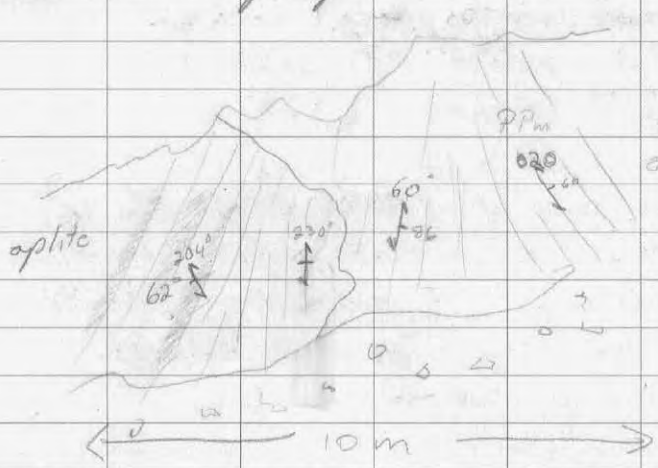
no mafics
no visible mineralization
some oxide staining

July 12

Ron
- west mapping structure in gully of south mtn

looking NE elev 1315 m

elev. 1320 in gully



elevation 1320
shear plane 82/072°

elev. 1365m
shear plane 72/280°

elev 1375 m
fol. 82/308° PPm
NE face of gully.

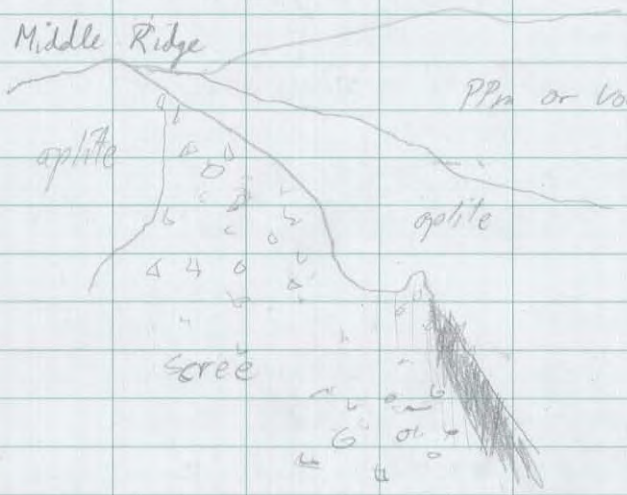
elev 1345m
fol. 55/350 PPm
NE face of gully

major shear fault striking up gully at 325°
- fault breccia 15399
- some lithified
- made up of angular fragments of aplite and possibly volanics or PPm
- clasts range in size from 5-60 cm
- approximately 50cm wide however area was covered
- matrix was a sandy clay w a steel blue/gray coating (Cu)

July 15
- spent July 13, 14 moving camp to North side of middle ridge
- Ron / Jim / Gerald
- did detailed grid sampling of aplite on North side of middle ridge (mineralized zone)
- started at line 50 north
- traverses at 245° across aplite
- slope 37°
- baseline bearing of 335°

*15755 → L50N/7W/I

shear 68/202
major slicken sides
approx. L50N/93W/I



looking South

contact approx 10.9 m W of baseline

L50N/6E/H 15756

fine grained
med brownish grey fresh surface
non-foliated
weathered brown
possible pistolith argillite
PPm
no visible mineralization

L50N/33W/I 15757

aplite
fine grained, creamy white
surgary texture
hairline fractures of qtz
qtz phenocrysts 1-3mm 5%
also med-green microcrystalline aplite
with 1% pyrite from same area
no mafics

L50N / 58W / I 15758
creamy white/buff aplite
very fine grained
specks of perhaps qtz < 1mm 5%
qtz fracture fractures
< 1% mafics
no visible mineralization
w/hvd rusty color

L50 / 83W / I 15759

v fine grained aplite
pale green / buff
mafic specks < 1%
rusty w/hvd. surface
mod. sheared
sugary texture

L50N / 101 W / I 15760

fine grained aplite
creamy buff
some chips with 4% mafics
looks like w/hvd. out pyrite
w/hvd rusty color

L50N / 114W / H 15761

fine grained
dk greyish black fresh
wthrd. brown
massive
eye shaped boudins of qtz & bi. 1%
4-8mm
one chip has wthrd pyrite
cubes Three-out 1-4mm 5%
possible protolith silty argillite
PPm

July 16

Ron / Gerald
- went sampling aplite (grid) on
north side of middle ridge
- began L150N traverse approx.
30m down from L125N
- east contact approx. L150N/2W
- began day w altimeter set at
1055m for camp.

L150N/8E/H 15783
foliation 52/140° ✓
elev. 1355m
mod. foliated, f.g.
banded tan/brown bands of mica 10mm
w/ dk grey bands of
pyrite cubes << 1% 1mm
wthrd. greyish brown
possible protolith silty argillite
PPm → biotite qtz schist

L150N/0W/H 15784

qtz boudin in PPm
mod. fractured
20cm by 40 cm
trending NW
very faint (fine) gold metallic
mineral on shear surface

L150N/5W/I 15785

aplite

f. g.

sugary texture

buff/cream color

rusty stained color

in bornite staining

no mafics

highly sheared

L150N/30W/I 15786

f. g. aplite

creamy buff

one chip w/ multiple hairline qtz fractures

1-2 mm about 10-15 cm apart

coarse phenocrysts of qtz 5%

biotite phenocrysts 1%

mod. rusty colored

no visible mineralization

L150N/55W/I 15787
has duplicate as control 15737
creamy buff aplite
fine grained
coarse qtz phenocrysts 5% 2-5 mm
sugary texture
less sheared than typical aplite
feldspar xstals 1% 5-6 mm
green patches (aguma) perhaps
white out arseno.
no visible min.

L150N/80W/I 15788

f. g. creamy/buff aplite
sugary texture
coarse phenocrysts of qtz 1% 2-3 mm
mafics 2-5% possibly bt. 1-2 mm
mineralization evident along
shear planes, very finely
disseminated
fine qtz bullwhip fractures (only a
few 5-10 cm spacing)

L150N / 105W / I   15789

f.g. buff / pale lt-green aplite
no mafics
fine hairline qtz fracture
fine 1mm specks of metallic mineral
mod sheared
closer to PPm contact

contact / L150 / 111W

L150 / 117W / H   15790

well foliated, fine grained
mafic bands 1-3mm } varies
felsic bands 3-5mm }
mafic chip w/ <1% finely dis. py
possible protolith greywacke
PPm
- feldspar xstals 1-2mm % not sure
- qtz, bi feldspar gneiss
- on chip highly sheared w/ mafic
  bands (fractures) thru-out
- foliation 50/170° ✓

July 17

Ron / Gerald / Jim

- overcast & sunny day
- did rock sampling of grid on north side of middle ridge
- started at L150N / 111W and took bearing of 335° then did traverse on bearing of 65° approx 60 m down at L200N / 111W

L200N / 111W elev 1380 m

15804

fine grained aplite
cream buff
wthrd rusty color
low to mod. sheared
coarse phenocrysts of qtz 2-3mm 3%
coarse " of fldspar 6-7mm <1%
little or no mafics
no visible mineralization
however brown wthrd out specks

4200N/86W/I 15803

creamy buff aplite
fine grained
coarse qtz phenocrysts 2%
little or no mafics
no mineralization visible

4200N/61W/I 15802
creamy buff aplite
fg
- coarse qtz phenocrysts 2%
- some or clear(white) & some green
- euhedral crystals
- no visible mineralization
- no mafics
one chip from very sheared area
- outcrop sheared up into larger blocky chunks
- one chip with very coarse feldspar phenocrysts very oxidized

Fault breccia

L195 N/30 W/I 15801

f.g. aplite
creamy buff
one dip w/ fine gtz laulets 1mm
fractures thru out w/ gtz stockwork
phenocrysts 1%
very coarse phenocrysts of
feldspar ≤ 1% 10mm
pyrite cubes 2-5mm on shear
planes
- cubes appear to be concentrated
into lines % ??
bornite staining on very
oxidized shear planes

L 200 N / 16 W / Contact
approx. backsight 329°

L 200N / 23W / I 15800.

v.f.g. cream buff aplite
no visible mineral

qtz phenocrysts 2-4mm 1%
feldspar 1-3mm 1%
mafic <1% possibly biotite
one dyke in stockwork qtz
veining 1-2mm about 10mm apart

87/168 foliation of PPm
at L200N/14W elev. 1357m

L200N/0W/H 15799

qtz biotite muscovite shist
- well banding & foliated
- dk tan/brown bands of mica 4mm
- greenish white felsic bands 4mm
- circular pods of arsenopyrite 3-6mm
mainly in mica-rich layers 5%
- pyrite irregular masses 1-3mm 2%
- lots of gold, I can feel it!
- protolith possibly greywacke
- PPm

L225/0W/H elev. 1325 m
backsight from camp 163°

July 26

office work
check assay results

July 27

Ron
did rock sampling on
north & east side of middle
ridge

C8N 241E found previous flag
elev. 1285

15605 elev. 1410 m
plotted on mapped at 1400 m
because seemed more accurate
f.g. aplite
highly oxidized & stained
coarse phenocrysts of plag 4-5 mm
& qtz 2-3 mm

2-3% mafics
possibly aspy mineralization
wthrd rusty color
fresh creamy white

15606 elev. 1330 m
86 (82)/346° foliation ✓
PPm
qtz bi shist/gneiss
well foliated
highly oxidized
wthrd. rusty brown / disseminated
highly mineralized in chalcopyrite
pyrite and possibly aspy. 10%
must have gold... I can feel it
possible protolith dirty sst.

15607 elev 1340 m
PPm
qtz bi musc. shist/gneiss
foliated
oxidized
wthrd rusty brown
disseminated py 4% possibly

ospy, chpy & Au ?
mainly qtz w/ dark band 1mm
of mafics "anastomising"
fine fractures/shear/mm w/
dark (wthrd out sulfides) infills
possible protolith dirty SST.

15608 elev. 1380

PPm
highly fractured & wthrd.
py mineralization 3%
1 large pod 2cm
little copper staining
oxidized
meta. silty argillite
qtz be shear ?
easily broken
fresh surface greenish grey / white
poorly foliated

15609

PPm
highly fractured + oxidized
qtz bi musc schist
poor to mod. foli.
possible protolith dirty sst
py mineralization ~1%
highly wthrd.

15610 elev. 1420m
83/180 of shear plane
aplite fault breccia
highly fractured & well lithified
also chips from beside shear
f to m. grained
creamy brown (stained)
py min 1% diss.
coarse xstals of plag. 2-3mm
5% mafic poss. wthrd sulfides

15611 1350 m elev
PPm
med. grey
f. g.
coarse xstals plag laths subedral
4-6mm 3% creamy white
f diss. py throughout 10% or more
wthd very rusty brown
possible protolith silty argillite? or volcanic?
massive

15612 1340m
PPm
oxidized
mod. fol.
pods of py 5mm 2-3%
possible protolith dirty sst.
qtz mica schist
also py diss very fine 2-3%
light + dark bands
appear deformed
cross-cutting foliation are
fractures 1-4mm very wavy
mafic

July 28

- Went Rock/Soil Sampling on north side of middle ridge
- start at elev. 1150m traverse at 250°

0153 elev 1260m
poorly fol. PPm
lt to med. grey
v f. grained
1 diss py 2-4%
acicular habit of metallic mineral 1-2cm
brassy/brownish black color
w/ rusty red
"patchy" fresh surface
fol 65/340° ✓

0152 elev 1260m
mod. fol.
f g
qtz musc bi schist
greenish grey

wthd rusty brown
pods of wthd out sulfides in
foliation plane
qtz boudin w py cpy 3%
coarsely dissem.
massive DK grey mxstal w
py VF dissem 4%

015 1 elev 1250m
duplicate also
LT to med grey PPm
massive w patchy coloring
perhaps irregular shaped bx bands
thru-out more felsic minerals
w f dissem. py 1-2%
brown wthd surface
protolith → sedimentary?

0154 1260m

f.g. aplite
extremely oxidized
very crumbly
hard to obtain fresh unweathd piece
fresh is red/tan (stained) w
dark patches (probably wthrd
out sulfides)
no visible mineralization
used dynamite to get a
good fresh piece

0155 1267m

f.g. aplite
shear zone striking 290°
highly sheared & fractured
hard to obtain fresh piece
fault breccia
oxidized
buff / rusty color
dark hairline fracture
no mafics some dark specks
perhaps wthrd out sulfides

no workable mineralization

July 29

Ron / Jim / Gerald
- went mapping on NW face of middle ridge

July 30

rain day
- wrote monthly report
- interpreted assay results

July 31

Ron
went mapping & rock sampling on south side of middle ridge towards west claim boundary #11

0063 elev 1340
near base of outcrop at granite upper contact w/ phenocrystic flow

fine grained dk. grey groundmass
w/ phenocrysts of plag.
- laths are euhedral 3mm wide
upto 2cm long 10%
weather creamy buff
fresh whitish green to greyish green
twinning is evident
- rock is moderate sheared
- py 2% on shear surfaces
- qtz boudins within and
are more prominent
- interlayer with massive &
finely laminated mafic rocks
similar to ones seen at 0061
- phenocrysts randomly oriented

claim 1330
fol. 60/130°
61/180

0064 elev. 1290 m

- fine grained
- poor - mod. develop. foliation
- 1mm laminations
- mainly med. grey rock
- with brownish grey
- py, cpy ~1% in felsic bands
- biotite qtz schist

0065 elev 1295 m

qtz vein is massive
asp & py thru-out 10-20%
py in well formed cubes 2 mm³
vein is rusty orange
in pale green patches
vein is 15cm across where sample taken
striking 075° approx
dipping 62

rusty zone possibly vein
seen striking roughly 056°
upslope

vein was traced downslope to 1265m
vein was striking at 058°
vein is 10cm wide & appear to be parallel (within) a shear zone
- vein is highly fractured & weathered
- fault breccia & gouge are found within shear zone
- shear zone & vein are hosted by very poorly foliated dk greenish grey rock
- faint lamination (false) (1mm) are visible and dark color of rock mainly due to biotite
- contact of granite 1260m
- shear nor vein appear to crosscut granite

0066 1265 m

qtz vein → mainly asp + py
25°/084
10 cm thick
weathering rusty orange &
pale green
py & asp almost totally
more py compared w asp as
0065 vein

0067 1270 m

fine grained calcite-rich felsic rock
twen plag crystal 2mm visible
whitish grey with irregular mafic
bands (blebs) thru-out
white mica also visible
-very fine diss. py around black
mafic
-wthrd rusty orange
- very calcareous
- blueish mineral possibly
flourite

0068
granite
qtz 45%
feldspar 35%
biotite 15%
cpx present ~ 1%
granite with rusty color
coarse grained
elevation may be off due
to changing weather 1225m
probably should be higher

August
moved & set up 1, 2, 3
camp next to highway
got groceries & did misc on 3rd

August 4
Ron

did mapping & recon. on south
face of north mtn. west of road

found claim post elev: 1370m

Read:

CATFISH
1N 2W
91170
JUNE 21/86

CATFISH 3
1N 1E
2883 S
OCT. 21/86

0069 elev 1338m
at W end of claim #3
granite
wthd. creamy white/grey
qtz, bi, fldspar

0070 elev 1380m

contact of granite w PPm
mod. fol. also some chips massive
w/hnd dk brownish grey
fresh dk grey → brown
py 1% bands & blebs (dissem)
epac. in felsic areas
brit qtz schist

0071 elev 1335

granite
E.g.
w/hnd rusty brown

August 5

Ron & Jim

- went mapping & sampling
of north extn.

RON / Jim / Gerald August 6

- mapped road cuts
went south along highway
approx 4.3 km from bridge
at camp
- outcrop approx 57 paces = 80 m
- found contact of PPm with
granite
- sampled rusty areas

0105
- well foliated finely laminated
metamorphic rock
- alternating bands of mafic 50-75%
and feldspathic minerals 25-50%
- fresh surface med grey
- py, opx, cp ~3%
- weathd rusty dk grey
- close to contact w granite (10 m)
- some bands appear blush grey (heavy)
- bands are 1-4 mm slightly undulatory
1-3 mm
- fol. 64/349

Dup

August 7

RON/JIM/GERALD
- rain day
- went mapping road cuts

August 8

RON/JIM
- went mapping & sampling north mtn south face

0081

med. fol.
alternating bands of mafic 30% & feldspathic minerals to 5mm
fresh surface greyish green also black & whitish bands
weathered very rusty color
oxidation of sulfides
py bornite ~ 2%
one chip very fractured

Row August 9

went sampling north ridge.

00 83 elev 1525 m

well foliated finely laminated metamorphic rock
alternating mafic 75% and felsic 25% bands 1-5 mm
fresh surface dk grey w lighter buff colored felsic bands
trace of py << 1%
wthrd rusty grey / brown
fol. 65/347°
PPm

fol. 80/360 1430 m South wall of gully

00 84 elev 1575 m

massive dk green grey
wthrd very rusty brown

biotite flakes thru-out 20%
possibly also plag laths ?
trace of pyrite, copper, py
mainly on shear surfaces
non-foliated
looks like PPm ? possibly stuhini
altering to sericite/chlorite

fol. 61/335 ✓ elev 1565
5m from gully on
north side

0085 elev. 1565

fol. 55/350 ✓

dk greenish grey massive
f.g. rock w 3mm qtz vein
cutting thru it
py <<< 1%
also lt green/white alternating

- bands 3mm that are deformed
- microfolds scale of 2cm
- wthrd brown
- some qtz veining & boudins
- no visible mineralization

0086 elev 1580
main gully
fol: 58/350° ✓

very well fol. w alternating
white felspathic bands 50% and
dark greenish black mafic bands
50% approx 2-5 mm
micro folds evident
wthrd very rusty brown
py 1%
bands are undulatory 5-10mm
definitely PPm

0087 elev. 1530m

dark greenish grey
massive
f.g.
laths of plag. 1-2 mm
rusty brown wthrd.
py finely disem. along
qtz hairline fractures & also
on shear planes ~1%
~~possibly a dyke~~ volcanic protolith
mod sheared possibly strained?

0088 elev 1375m

well fol. w alternating
bands of felsic 40% and
mafic 60% minerals
laminations approx 3-5 mm
schistosity evident
qtz boudins to 4cm
- also one bed of mica-rich
schist
- very soft malleable
- mdd. greyish brown / buff

withd Brown
fol. 70/330

0089 elev 1275
qtz vein
86/095 $90/095
mod fractured
rusty white
50 cm wide
very resistive to erosion
intrudes (crosscuts) granite
no visible mineralization
assay for Mo because
other (similar) qtz veins
had molybdenite present

August 10

hot sunny day
flew up to top of north mtn
by helicopter
located PPm / Stuhini contact
mapped & sampled along
ridge then down gully towards
camp

0090 elev. 1635 m

well foliated
dk greenish grey
laminations mafic 80% felsic 20%
slightly undulatory 1-5mm mainly planar
1-10 mm wide bands
wthd rusty brown / grey
trace of py << 1%
fol. 80/352
close to contact w fld-porphyry
def. PPm
cut by dioritic dike 2m wide
trending 82/050
dike has irregular contact 030°-090°

fld. porphyry

- plag phenocrysts 5-10mm long weathering creamy buff on a brownish wthrd surface.
- groundmass is aphanitic and is dk. greenish grey
- 10-15% phenocrysts
- contact trending roughly 80°
- roughly 15m wide

0091 elev 1608m

well fol. metamorphic rock with alternating bands 1-3mm wide rock is mottled light to dark green rock is mainly qtz feldspathic trace of py <1% wthrd rusty brown / buff fol 75/347 ✓

0092 1545 m

fol. 79/355° ✓

mod. fol

ranging from well banded
dk green to dk. green/brown
bands felsic 60 mafic 40%
to more massive dk greenish
grey with faint greenish white
bands 1 mm
wthd. very rusty brown
PPM
trace of py < 1%

0093 1525 m

- ranges from massive microcrystll
dk green to mod fol, dk
green bands alternating with creamy
white felsic bands 20% 1-2 mm
to highly sheared white massive
rocks
- all are weathered very rusty brown
- py thru out 1-3 %

-sphalerite may also be present 2%
· very rusty colored talus slope

saw rocks that had been piled up trending in a line of 115° elev. 1505m

0094 elev 1290 in gully

mottled dk. greenish grey to creamy buff massive
one chip pale greenish buff is one cube of py 5mm <<1%
otherwise no visible mineralization
highly sheared
very rusty brown wthd. surface
non foliated

=/=

0095 elev 1200 m

very rusty orange aplite
highly oxidized & weathered
rock appears 5m across
looks mainly like qtz
with it is granodiorite
looking e.g. rock is
py 5% covering completely
sheared surfaces as well as
disseminated throughout 100cm wide

0096 elev 1075m

very rusty orange
highly oxidized
pale greenish white
microcrystalline
qtz vein
py 5-7% disseminated throughout
trace of cpy
5-10 m oxidized area?
aplite

August 11

RON

hot sunny day
went sampling south face of north mtn. looking for rock where very high Au values were found from previous work 6700 ppb.

0097 elev 1315 m

creamy white to buff coarse grained granite
qtz 40% Fldspar 40% bi 20%
weathd rusty buff color
fldspars weathering to rusty brown clay
trace of py $\ll$ 1%

0098 elev 1325 m

qtz vein in adit
very coarse grained
vuggy
white weathering rusty orange/brown
iridescent bluish black dendritic
like copper staining

no visible mineralization
assay for Mo
3 semi-parallel veins 80cm to 150cm
two of which converge 300cm wide
sampled all three
80/076° 76/080?
host is PPm

0099 elev 1375m

PPm
- well fol.
- alternating mafic 30-70%
and felsic 30-70% laminations
1-10mm wide, slightly undulatory
color ranges from creamy white
to lt green to dk. blue-green
black
- all gtz brittle schists
- no visible mineralization
fol. 39/350° dips varies

0100 elev 1415m

PPm
alternating laminations 1-2mm
felsic 30 mafic 70%
mod to well foliated
diss py throu-out <1%
w thin rusty brown
fresh mainly brownish med grey

0201 elev approx 1435m

aplite f-g
fol. 60/270° ?
approx 4-5m wide
- irregular wavy sharp contact
- cross-cut by qtz veins 5-20mm
- phenocrysts of qtz anhedral
  5mm wide 10-20%
- creamy buff color
- one chip of contact with PPm
- appears fractured possibly due to folding

0202 elev 1360 m may be on A

PPm
highly oxidized
stained very rusty brown
alternating lt green & buff felsic
bands with mica (bi)
subcrop just below cliff
py visible < 1%
most everything else sulfides
weathered out

0203 elev 1365 m

aplite
pale green white
phenos of py
sulfides weathering out
1 m wide
several other aplites close by
contact 80°/345°

August 12

sampled qtz vein & determined how far its traceable

0204 elev 1275m

qtz vein
white milky color
w/ brd rusty buff
coarse grained
vuggy w/ weathered out sulfides
no visible metallics although
some possibly copper staining
fol. 78/102°
width 325-400 cm
offset by a sinistral fault
approx. 300 cm

0205 elev. 1280m

qtz vein same as 0204 & 0089
east end is faulted off and
the vein can be traced only for
a total of 50m
74/275° dyp

0206 elev. 1305m

80/104° ✓
qtz vein
appr 300 cm wide
rusty wthrd.
traceable for appror 50m.
folded & faulted
no visble min.
e.g vuggy wthrd out sulfides

* all qtz veins trend thru granite
appror east direction
ranging from 5cm to 400cm
approx 10-20 veins in gully

FIELD

0207 elev. 1100m

cg. granite
w/hrd very rusty brown
mainly qtz & feldspar very
little biotite
no visible mineralization
weathered out voids probably
sulfides
- hard to get a piece not
weathered

August 14

found adit w good Au values
in qtz vein
0208/0209 elev 1320m
- qtz vein white with rusty
weathering
- vuggy 25/063?
- 76-84°/043°
- approx 1 metre wide
- adit contenues approx 20m
- cuts thru PPm

- py cubes ū asp also possibly
  cpy & Au 3%.
- Mo flakes (platy) also visible !!
- took 2 samples one
  for metallic gold analysis
- weathering products of scorodite
  visible

qtz vein elev 1335m
75-81/220°
shearing at contact ū PPm
1.5 m wide

- kept tracing vein upslope
  to blast hole/trench at 1380m
- was flagged previously
  CFR-5
  CFR-4
- vein 1.1m
- 75/020 roughly!

75/032

granite 1215m
0210
joints
75/170°
80/090°
3rd joint poorly developed
c. g
qtz, fldspar, bi
w/thin creamy brown/tan
no visible mineralization

0211 elev 1170m

qtz vein
200 cm wide
85/090° ✓
veggy
rusty w/thin
cuts thru granite
very little mineralization
visible possibly py
very weathered

August 15

0212 elev 1450m

- mod. fol.
- alternating bands felsic & mafic
- weathd rusty brown
- greyish brown to whitish buff fresh surface
- trace of py < 1%
- bands are 5-15mm wide
- PPm
- qtz bi schist

0213 elev 1460 m

- well fol. PPm
- bi qtz schist
- dk brownish grey
- weathd rusty brown
- fine laminations 1-2mm
- one dyp buff colored l.g. possibly aplite, contain fine stringers of sulfides
- py disem. thru bi ~1%

qtz vein 1410 m
72/100
0.5 mm wide
Mo present
large crystals upto 5 cm
wiggy

0214 elev. 1335 m

cg. granite
crumbly
highly weathered
qtz 40% anhedral
fldspar 40% anhedral 1-10 mm
bio 20% " 1-4 mm
some rusty colored spots

0215
granite elev 1255 m
harder to break
same as 0214

August 16

Row

went mapping & sampling gullies in claim CATT-1 & 2 on south west side of north mtn.

0216 elev 1220m

C.g. granite w/ qtz plag. bi
then 0.5-7cm dikes of aplite & qtz almost vertical striking east-west
granite is creamy white color w/ thin buff / tan crumbly
possible shear down gully?
joints 88/096 ✓
88/352 ✓
2 others poorly dev.

0217 elev 1185 m

creamy white cg. granite
qtz 40 %.
fldspar 40 %.
bi 20 %
small qtz vein running thru
one piece 1cm wide
irregular strike
joints 76/095 - 115°

0218 elev 1235 m

granite but sample is
mainly aplite in thin
qtz vein 1 - 10 mm thru it
qtz vein are semiparallel
to strike of aplite
aplite is lenslox 30 cm wide
70/080° - 090°
qtz veins // to joints
76/085

elev 1305m
44°/238 shear plane

0219 elev. 1320m

granite
slight rusty colouring
highly veined.

joint 76/095 elev. 1335m

0220 1350m
granite & aplite
same as before

August 19

RON / GERALD

went mapping UTS along creek + Llewellyn Fault

#1 med. to coarse grained white + dk green grainy texture qtz, plgas + mafic visible massive, intermediate mesocratic

#2 massive
dk. greenish grey
mafic tuff

#3 elev 770 m
- dk. greenish grey
- massive, some fibrous mineral (min
- altered epidotization
- very rough dendritic differential weathered crust which is dk brown 1-3m
- possible shear surface w epidote alteration product
- py <<< 1%

#4 82/172 shear
lineation 90/155°

#5 85/064° shear plane

0221
#6 mottled buff to dk green
microcrystalline
py < 1% finely dissem
chloritization
intern altered granodiorite
sulfide staining

0222
#7 very poorly foliated
mottled buff to dk green
mod fractured
py 1-3% diss. thru-out
w/thrd brownish grey
appears altered
sulfide staining
some pieces very felsic (tuff)
sheared granodiorite

August 22

RON / GERALD

- went mapping Paddy Pass River

0223 elev 850m

- colors range from white → buff → green → brown → grey
- rusty brownish grey w/pod.
- broken up clasts of lmst w/ calcite veining
- calcareous
- appears very altered & fractured
- within stuhini
- perhaps fault breccia
- some pieces appear vuggy w/ differential weathering on wthd surface.
- lmst. vein w/ enclosed py cubes < 1% 10-30 cm wide
- contact of PPm w/ stuhini?
- microfold present 10 cm scale

Dup 064/35?

46/004° elev 805m

0224 elev 805 along river

shear trending 170°
stuhinie highly fractured
calcite veining 4mm
* occurs at bend in river

august 24

Jim / Gerald / Ron

fold hinge 31/345 Dip
at limestone argillite outcrop
very sheared

Gold

0065
0066
0067
0208
0209
0098

75 paces = 100 m

andesite - fine grained intermediate volcanic rock w/ oligoclase or andesine

diorite - coarse grained plutonic intermediate rock

w/ increase in k-spar diorite → monzonite

w/ increase in qtz diorite → granodiorite

rhyolite - fine grained to glassy acid volcanic rock

granite - coarse grained 20-40% qtz, k-spar & mica plutonic rock

rhyolite
↓
trachytes ⇓ decreasing qtz
↓
dacites
↓
andesites
↓
basalt

aplite - fine grained, sugary texture
formed from magma low in volatiles

tuff - dense to fine grained
fragmental texture w small volcanic rock frags & ash
has a gritty feel
may be scratched w knife blade
well defined layers

I.C.P.
geochemical analysis for Au, Ag, As, Sb, Cu, Pb