

Traverse 33K

Aug. 15, 1968

812574

South End Tagish Lake (Taku Arm)

Air Photo A11390-343

Geology - Silt sampling traverse up the small creek approx. 350 yards East of camp

Geology: no o.c. along creek until approx. 7,000' up the stream. at that point rock is a coarse grained, pyritized Biotite Granite

pyrite occurs as small disseminations and seams total metallics ~1% (visual estimate) ~ $\frac{1}{2}$ % epidote

also present along seams

between 6,000' and 6500' up stream two areas (each 10'x10') of angular rusty granite blocks - only minor pyrite present

the float in the creek is mainly this coarse  
grained, porphyritic (in places) Biotite Granite  
with minor dissems. pyrite

the composition of the rock is:

Quartz 15%

Biotite 10%

Hornblende 5%

Orthoclase 50% possibly more

Traverse 34K

Aug. 16 1968

South end Tagish Lake

Air Photo A11390-343

Geology along shoreline, proceeding  
East from camp

A1-34K approx 400 yards East of camp

OC 5'x15' of quartz-biotite schist-schistosity

$\frac{080}{25}$

the rock is well indurated, and

contains up to 1% pyrite as disseminations

and along small quartz veinlets and fractures

biotite abundance varies from place to

place but generally comprises 60-80% of the

schist - quartz varies from 5-20% and

occurs mainly as veinlets ( $\frac{1}{2}$ " wide) which conform

to schistosity

weathered surfaces generally dark grey

with abundant rust stain from pyrite

1 sample # 5

biotite is fine to med. grained, pyrite occurs as  
irreg. masses up to  $\frac{1}{8}$ "

100' N of 'D' KK35 is another o.c. 10'x15' of the  
quartz-biotite schist. pyrite up to 3% along  
fractures and disseminated - some clear quartz  
veins cross-cut the schistosity at high angles

these veinlets trend  $175^{\circ}$  but dip is highly variable.  
several of the veins ~2" apart, but not over  
entire o.c.

also present, a zone of sericite alter'n.  
conforms to schistosity - width 6" no mineralization

this could only be traced for a few feet

several qtz-biotite layers ~80%qtz - these are  
up to 2" wide and generally conform to  
schistosity but do show cross-cutting in places

pyrite is very common in these layers, mainly with biotite.

1 sample #6

another 100' N an old prospect pit into

sidehill - shows schist has many pinch and

swell veinlets and veins of "granitic"

material fine to med. grained - this "granitic"

material occurs in veins up to 18" wide, both

conformable and cross-cutting - minor ( $\frac{1}{4}\%$ )

pyrite in the veins      schistosity  $\frac{35}{+}$   $045$

150' N of prospect pit - good ac. of schist

670

T-50 with 5-10% "granitic" material

both cross cutting and conformable

the granitic material generally has

almost the same trend as the schistosity

at this o.c. several small veins up to  $\frac{1}{2}$ " wide

strike  $000^{\circ}$  - dip is quite variable but always

steep - these crosscut schistosity and 'granitic'

veins (?) but contain only minor pyrite

no sample

On the point, many veins + veinlets of quartz with N-S trend - average spacing

6-18" - these dip irregularly but the dip is always steep.

The rocks on the point are highly contorted and appear to represent the c-axis of a fold

- quartz and 'granitic' veins are abundant (~5% of o.c.) and range from  $\frac{1}{2}"$  to 12" wide - conform.

- the schist contains 2-3% disseminated pyrite

the veins  $\frac{1}{2} \text{ to } 1\%$

- minor ( $\frac{1}{2}\%$ ) epidote in both schist and veins

- fold axis trends  $115^{\circ}$

100° E of point schistosity  $\frac{25}{25}$  070

2-5% veins - almost all are conformable

lower part of o.c. is qtz-biotite gneiss

with disseminated pyrite - the gneiss also has

veins of "granitic" material - these are up to 18" wide

and are conformable with gneissosity - the

mica within these veins is foliated // to gneissosity

1 sample gneiss #7

1 sample "granitic" vein #8

250° E of point schistosity  $\frac{20}{20}$  095

gneiss and schist are interbedded - schist ~95%

biotite - conformable "granitic" veins up to 10% of

outcrop in places

epidote occurs as pods and small stringers

all along o.c. - ~1% of whole o.c.

'granitic' veins usually conformable - probably

small offshoots into sedimentary host rock

- clear quartz veins have many attitudes - all  
crosscutting schistosity

~80% schist, 20% gneiss along this beach

another prospect pit attitude of schistosity

130

on point just east of prospect pit, o.c. is  
of biotite schist - ~5% granitic veins, all  
showing ptygmatic folding - pyrite 1-2%

mainly along small qtz-filled fractures

~1% epidote along fractures

schistosity 130

A2-3AK on East side of small bay

biotite schist - attitude 125° with -

lineation trending  $025^{\circ}$

approx. 5% 'granitic' veins 1"-6" wide,  
mainly conformable or slightly discordant

gneiss and schist  $200^{\circ}N$

good jointing  $\nearrow_{175}$  and  $\searrow_{110}$

- granitic veins contorted, much pinch and swell.  
schistosity also distorted

AB-34K rock along the E side of this bay is ~90-95% biotite schist, ~5%  $qtz_3$ -biotite gneiss

both lithologies contain dissem. pyrite - all  $qtz_3$  veins have rusty stain - however, nothing other than pyrite observed

attitude of schist at point  $\nearrow_{25}$   $130$

A4-34K outcrop at NE point of bay 2 bays East  
of our camp

- long exposure 30' high \* several hundred  
feet long.

at south end of outcrop mainly a fine  
grained biotite with minor (5%) biotite-feldspar  
gneiss - minor ( $\frac{1}{2}$ %) pyrite is disseminated in both  
lithologies - the schist here is finer grained than  
previously and contains small, concordant quartz  
and "granitic" veins up to 5% of o.c.

proceeding N, the feldspar-bigneiss is  
becoming more abundant

the gneiss contains 1-3% conformable  
"granitic" veins up to 12" wide - attitude  $45^{\circ}$  <sub>135</sub>

the gneiss contains ~15% feldspar  
porphyroblasts up to  $\frac{1}{2}$ " in size. av  $\sim \frac{1}{8}'' - \frac{1}{4}''$

as well as 10-15% more feldspar as small

blebs biotite is fine to med. grained

pyrite is dissem throughout gneiss ( $\frac{1}{2}$  %)

1 sample #9

pyrite usually most abundant near small fractures

several rust zones along this o.c.

- contain only pyrite 1 sample #10

1-2' wide dyke  $\nearrow^{065}$   $\nwarrow^{25}$  cuts through gneiss

grey-green on fresh surface comp. ~ dacite

1 sample #11

gneissosity at end of point  $40^{\circ}$   $45^{\circ}$

across point o.c. of biotite schist with  
dissem. pyrite

limey zone 50' wide - some quartz veins

to 6" wide contain minor galena and pyrite -

total metallics ~ 3%

100' N of limey zone - veining shows  
core of fold

azimuth  $215^\circ$  plunge unknown

but steep, at least  $60^\circ$  to SW

Traverse 35K

Aug. 17, 1968

South End Tagish Lake

Air Photo A 11390-3-13

Proceeding west from camp, along the  
shoreline

A1-35K

On point 200 yards West of our camp

- coarse grained Biotite Granite

15% Biotite

20% Quartz

65% Feldspar (mainly orthoclase)

1 phenocryst of orthoclase  $\frac{3}{4}$ " long  
noted in specimen

small, dissemin. rust stains from pyrite  
within granite       $\frac{1}{2}$ % metallics

at this point rock is unveined - quite homogeneous

although a few (<1%) rounded inclusions

were noted - these were ~60% biotite (fig.)

with 5% feldspar porphyroblasts - remainder

was fine grained feldspar

1 sample #15

continuing around the point rock is still

coarse grained intrusive - but looks more like a

Granodiorite than a Granite - still contains

minor (~1%) disseminated pyrite - also ~5% m.g. hornblende

4

One small zone of alteration noted in

intrusive - area 10' x 15' was slightly less

resistant than rest of granite - biotite and

hornblende were partially altered to chlorite -

the zone was more rusty weathering but

didn't appear to have any over-abundance

of pyrite mineralization

A2-35K

still in c.g. Biotite Granite (Granodiorite?)  
with minor dissems. pyrite

prominent jointing in intrusive  $\nearrow^{035^{\circ}}$

and  $\nearrow^{75^{\circ}}$   $\nearrow^{105^{\circ}}$  - here closely fractured ( $\sim 6''$  apart)

usually fractures  $\sim 2\text{'}-3\text{'}$  apart

at this point the intrusive has been

altered very slightly, the mafics going to

chlorite - no mineralization other than the

usual dissems. pyrite.

1 sample #16

this a.c. occurs  $\sim 150$  yds N of large  
creek (NN#6)

A3-35K 15'x40' o.c. of fine to medium  
grained, leucocratic, well foliated intrusive  
(possibly even a sill?)

~5% f.g. biotite gives fol'n- attitude  
of foln  $\frac{10}{1}$  105

this rock weathers to very light grey  
colour - only very minor pyrite <<  $\frac{1}{4}$  1%

float of this rock type observed first 100  
yards east of this station

1 sample #17

50' further west the o.c. contains med.  
grained biotite schist conformably overlain  
by this f.g. intrusive - so this intrusive is

only a layer within the schist

1 sample of the feldspar-biotite schist #18

A4-35K o.c. 5' x 20' of c.g. Biotite Grano-

diorite, with moderate foln

20  
745°

the intrusive contains ~20% m.-c.g. Biotite

60% feldspar

10% quartz

2-3% epidote

minor sphene(?)

no veining or mineralization noted here

1 sample #19

Traverse 36K

Aug. 18, 1968

South Tagish Lake Area

Air Photo A11390-343

△1-36K occurs on stream due south

of camp - same location as Silt NN#15

f.g. biotite schist  $\leftarrow \begin{smallmatrix} 060 \\ \text{S} \end{smallmatrix}$

2-3% concordant 'granitic' veins

minor disseminated pyrite

no sample

between Silt NN#15 and NN#16 - almost

continuous exposure of the fine grained

biotite schist with  $\frac{1}{2}\%$  disseminated pyrite

$\sim 1\%$  randomly oriented quartz

veins and veinlets - these carry very

minor pyrite

at NN#16 a small shear zone

~2" wide X<sub>155</sub> = bubbly weathering

with 5% pyrite - mainly in quartz in the O  
shear

- too bubbly weathering to get a  
sample

schistosity 200' North of NN#17

~~25~~ no

200' N of NN#1A

gentle, open folding in the schist  
Fold Axis Azimuth  $045^\circ$

appears to plunge gently toward  $045^\circ$   
but amount of plunge couldn't be  
measured probably  $\sim 10^\circ$

Northern part of schist is cut off by

coarse grained intrusive

- abundant aplite veining here,  
containing pyrite as small stringers and  
disseminations

Traverse 37 K

Aug. 19, 1968

Traversing West from camp - a continuation of  
traverse 35 K

A1-37K 100' up from lake and approx 400'

West of silt #59 (KK)

20'x20' ac. of coarse grained, well foliated

Biotite-Hornblende Granodiorite

fol'n was hard to measure, appears to be  
flat lying

biotite 15

hornblende 15

epidote 3

quartz 10

feldspar 55

no mineralization or veining here

1 sample #20

See Silt Sample  
Location map for South  
Tatish Lake Area

South Tagish Lake Area  
Data on Kirkland Silts Aug. 15/68

Silt #35 - 15' upstream from lake  
creek 4' wide, 6" deep, fairly rapid  
flow silt and medium sand

Silt #36 - ~500' upstream creek is  
rapid flowing 3' wide x 1' deep  
silt and fine sand

Silt #37 ~1000' upstream  
rapid flowing 2' wide x 6" deep  
silt and fine to med. sand

Silt #38 ~1500' upstream  
fairly rapid flowing 18" wide x 6" deep  
silt and fine to med. sand

Silt #39 18" wide x 6" deep rapid flow  
silt to med. sand ~2000' upstream

Silt #40 ~2500' upstream 18" x 4" deep  
silt to med sand rapid flow

Silt #41 ~3000' upstream 18" x 4" deep  
silt to med. sand rapid flow

Silt #42 same as #41

Silt #43 ~4000' upstream 18" x 4" deep  
silt to coarse sand rapid flow

Silt #44 ~4500' upstream many small  
pools av. width 12-18"

silt to coarse sand

Silt #45 ~4900' upstream from a small  
seepage into the creek sample taken  
15' from main creek

Silt #46 ~5,000 upstream creek mainly in  
pools 12"-18" wide rapid flow  
mainly silt and coarse sand

Silt #47 ~5,500' upstream creek ~12"  
wide, 2-4" deep rapid flow  
mainly med. to coarse sand

Silt #48 ~6,000' upstream creek 12" wide  
steep gradient mainly boulders and coarse  
sand

Silt #49 ~6500' upstream creek as before  
mainly boulders and coarse sand

Silt #50 ~7000' up stream stream has

steep gradient width ~ 12"-18"

sample taken beside o.c. of granite

sample mainly fine to coarse sand

Silt #51 ~7400 up stream small creek enters

from the west sample taken on small creek

20' above junction

creek ~8" wide, very shallow but with high  
gradient

silt to med. sand

Silt #52 ~7500 up stream - sample taken on  
main stream

creek ~12" wide fast flowing

silt to med. sand

Silt #53 now proceeding up a different  
branch of the stream this location is ~3,000'  
upstream from lake

This creek ~18" wide, 2"-6" deep, many pools  
sample silt to med. sand.

Silt #54 creek 12-18" wide many pools  
silt and fine sand ~3500 upstream

Silt #55 creek 12" wide many pools.  
~4000' upstream silt and fine sand

Silt #56 creek 12" wide 2-4" deep  
~4500 upstream silt to med. sand.

Silt #57 at 4950' upstream sample from

a small hidden (underground) stream which  
emerges only 15' E of junction with the

main stream - sample is silt, taken where creek emerges

Silt #58 ~5,000' up stream - this branch  
is now very small and often goes underground  
silt and fine sand

Aug. 17 West of camp - a long shore

Silt #59 ~300' E of A4-35K  
small creek 2" deep, 1' wide fairly rapid  
silt and fine sand - 15' inland from lake

Aug. 17

Silt #60 150' E of #59 sample taken  
from small underground stream which emerges  
5' from shore - stream only 1" deep - 6" wide  
silt + fine sand

Silt #61 200 yds E of #60

small underground stream emerges from  
granitic talus pile ~5' from lake 12" wide  
2" deep fine sand

Silt #62 150' E of #61 underground

stream emerges 10' from lake  
fine to med. sand

Silt #63 same as #62 occurs 15' E  
of #62

Silt #64 200' W of NN #29

small (24" wide x 6" deep) fast stream  
mainly fine to coarse sand

# Claim Posts

~500' E of camp

#1 Post

Zuk #15

R. McGechan for Idaho Silver

June 7, 1968

#2 Post 1500's

Claim extends 1500' East

same post is #1 Post for Zuk #16

which has same data but #16 extends

1500' West