

T = Talus Fines

SAMPLES

DATE 2002	AREA	ROCK	SOIL	SILTS	OTHER (stations geology etc)
MAY 29	LEWES MARSH	(-RS samples)			
JUNE 5	TAGISH NARROWS	(-FA samples)			
JUNE 10	Pick handle	JUR02001-003			
JUNE 11	Scottie Cr.	97662			JUR02004-005
JUNE 12	Scottie	JUR02007-016	JUR02006	JUR02009-011 JUR02013-015	JUR02008-012
JUNE 13	Scottie	(-RS SOIL SAMPLES)			
JUNE 14	Walesley		JUR02017-019	JUR02020	
JUNE 20	SNAFU			97701	
JUNE 24	KUSAWA	97702-05		97706	JUR02021
JUNE 25	KUSAWA	(core 14-16)	97707 97617	97618 97708-10	
JUNE 26	SNAFU	97712-16	97711		JUR02022-23
JULY 3	KUSAWA	mob into camp late (-RS samples)			
JULY 4	KUSAWA	97718	(TP) 97719	97717 97720-21	JUR02024-25
JULY 5	KUSAWA	97725-26 97734	97727-33	97722-24	JUR02026
JULY 6	KUSAWA	97735, 97742 97743	97736-37	97744-45 97746-50	JUR02027-28
JULY 7	KUSAWA	56501-		56502-506	JUR02029-33
JULY 8	KUSAWA	56509-10	56511	56507-8 56512-15	JUR02034-47
JULY 9 ⁰⁰⁰	KUSAWA	56516	56517-19	56517-19	JUR02048

sample 97743 missing $\frac{2}{10}$
A

pickup up Aug 2/2002 (SEE BOOK #2 2002)

Robert, Roger, Floyd, JR

LEWES MARSH

MAY 29/2002

ARH02 01 station on creek draining
into proposed Lewes Marsh SMA on
creek draining behind Gunnars Mill
- see RH notes for geology of
boulders in creek

Pan concentrate [RS02-001]

A RH02 02

creek draining through Black Miles
property north side of Alaska
Hwy - see RH notebook

Pan Concentrate RS02-002

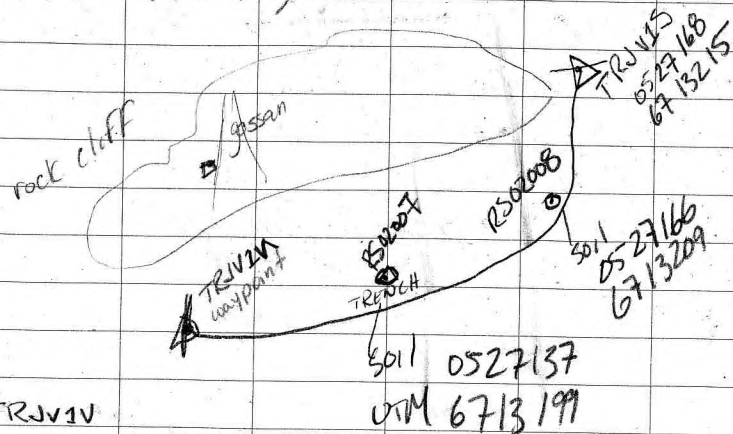
△ RH02006 old Adit north side of
road near turn off before
Swan Haven temple RS02003

↳ tons of branches /
blunt tips

△ RH02007 drill collar - 200m
north from old Adit;

* looks like black current bush
at collar ; tons of strawberries

trenching on south side of highway
across from Adit.



TRJV14

- 0527135

UTM 6713200

#

• Farrell

• Roger

• Robert

• J.R.

Tagish Narrows.

June 5/2002

- drove to SW edge; no o/c
beach

- beaver on beach

- drive over bridge; up

on Penny Cack Creek

A RHOZ 009

sample of skarn
by bulldozer

sample FA02001, FA02002

pan concentrates > 12 colors

see Robert's notes for descriptions

green intrusive into Labarge
group rx causing skarn
(minerals further up creek)

- old A-frame on creek

#

WGS 84 is Nad 83
on GPS

Robert
Poyer

~~FAO~~
Pickhandle Lakes

2 of -

June 10/2002

Farrell A FA02004 station

oceanic U/M
& metamorphic
assemblages

→ Windy assemblage

FG green to purple black mafics/
ultra mafics in road cut

Sample by Farrell

(NAD 83 scott's Creek only)

(to) took 3 photos Roll 1; 8, 9, 10

strike-slip 318/70E

see F.A. notes
zone 7

539708E
6863714N

Masina - muscovite chlorite
schist

North of road across
from Pickhandle lake SMA

STATION

△ JvR02001 station @ contact
btwn Nasing & Windy M-Kinky
rocks

UTM coords ^{NAD27} 0542630
20027 6861912

Pit - rock mined for road fill

□ 11, 12, 13 roll 1 - 0542685E ^{NAD27}
JvR02001 6862007N

sample @ contact; sheared
fault zone (see R's notes
for attitude of fault)

same rx as Minfile. RGS
qtz + rusty veinlets = py anomaly

JvR02002 ^{WGS 84} - 0542601E Roger
6862134N way point

? fig dark grey qtz ite? dyke sm
rusty shear zone 0.25m
wide trending ~ 065/70S
~~5m~~ decalcified = limy
in FW of contact

230m
east of
fault zone

JvR02003 - graphitic shear
HW of fault @ JvR01001 station
bx Qtz minor limonite,
no sig. pyrite

H

Fly to Scottie CREEK SMA 3 of -

June 11

Traverse 1 ⁰⁵²¹⁰⁰⁰
₆₉₆₁₀₀₀

TRAV

c ROBERT

Nisling range Alaska
- looking for veins.

Next target

Min file

staked in 56
restaked 73

67V

0501150E

1? skarn

UTM

6956500N

⇒ next few days setting on Klondike Schist
try to figure out stratigraphy
* looking for ^{metamorphic}
felsic volc & / mst _{pelite; felsic}
marbles @ contact (skarn)

Bad bush; all 4 set camp
on Starvation Mountain

Robert & I flew east to our
target area & sampled qtz monzonite
o/c - mapped Alaskaite but
none found. - Robert notes &
samples RS02501

97662
assay #

JvR02004

medium to coarse grained
qtz monzonite, foliated, biotite
hornblende; sheeted qtz
stringers 3/m 8cm apart //
veins, local rusty patches - no
visible SX

GPS ^{07v} 052105
UTM 6961492

Klondike schist RS0253 station
near camp

Knob just east of camp has
rusty qtz vein in schist
(see Robert's notes) Min file
occurrence? ✓

0500975

6956821

JvR02005

↑ no sample as
Robert sampled instead.

? old pit sample qtz vein
2m wide, 0.5m deep

X

June 12/2002

Each RS
Trav RH
along FA
JUR
South of camp, trav toward
border crossing

△ JvR 02006 station ; soil sample
break in slope @ ^{05 01169}_{69 56195}

^{05 01020}_{69 55802}
☆ JvR 02007 2x5 m outcrop of
finely laminated dirty sandstone/
siltstone up to 8 cm qtz sweets;
locally rusty; ? bedding @ 052/41NW
better reading on o/c 25 m south
of 038/019NW

☆ JvR 02008 10x25 m o/c
of dark fig meta sandstone,
finer laminated than JvR 02007 sample;
less qtz sweets but smaller
qtz veinlets/laminated contain
rusty blebs
(0501049, 6955345 - resp sample)

① JuR02009 6501347 6952821
 silt sample south of tiny lake
 water not moving much; rx
 frags dark grey schist/sandstone

② JuR02010 0501758 6952452
 silt below east of small lake
 silt sample, no distinguishable
 rock frags, water is moving

③ JuR02011 6501589 6952645
 silt on east arm draining Starvation
 Mountain. lots of organics, dark
 brown silt in 30cm wide creek.

△ JuR02012 rep sample
 subcrop of green/dark grey
 schist with fine (mm) layering,
 bands have coarse lenticular
 Qtz grains; ? biotite aged Qtz
 saw cuts? also X cutting
 // Qtz stringers 3mm wide
 6501602 6953585

① JUR02013 silt sample of
NW draining small creek
0501597 6954421

① JUR02014 silt @ 0501601 6955061
creek 40cm wide

① JUR02015 silt @ 0501643 6955397

① JUR02016 rock sample float on
game trail - 0501548 6956285;
rusty Qtz with chloritic pods
& veinlets, yellow/white sericite
on fracture surface
Cassay tag 97660

504650

6957500

5

X

June 13

helicopter couldn't pick us up today so did soil lines from camp.

Robert & I went to border 50m off on GPS but did find a monument (took some cool pictures)

*cut helicopter pad

*packed samples

*checked out Wellesley maps for tomorrow.

SCOTTIE CREEK

10 of

SOILS/SILTS

RSOZ507

JUR02006

8
9

9
10

12

11

13

13

14

14

25

JUR020 15

27

7

28

29

30

31

32

33

36

38

39

40

41

42

RSOZ5 43

21

SCOTTIE CREEK

REP SAMPLES

RS 025 01
RS 025 03

RS 025 04

RS 025 12

16

19

20

RS 025 37

JvR 02007

JvR 02008

JvR 02012

11

W0

RS 02 W 01

3

RS 02 W 05

WHOLE ROCKS

RS 02 502

A

RS 02 5011

12

RS 02 5016

RS 02 W 01

RS 02 W 03

6

ROCKS
FOR ASSAY

97651

2

3

4

5

6

7

8

9

97660

97661

97662

12

plus Roger & Farrell's samples
(~70 soil/silt & 6 rocks)

Robert & P

Roger Farrell WELLESLEY LAKE

11 of -

JUNE 14/02

Robert & P to fly out to snag
drop off gear then off to
Wellesley

- if we can land, chopper
will come back to p/o Roger & Farrell
go to snag with their gear?
come out to Wellesley

- two to fly to Harms Junction,
two to drive out.

→ change GPS to NAD 83

Wellesley geology from GSC paper
73-41

West side:

PMv

massive greenstone, dark green, massive aphanitic
epidotized basalt; includes gabbro
- Colark weathering medium grained equigranular
hornblende gabbro

East & south sides

TITvd

DorjeK volcanics: gray weathering, resistant
green & purple to buff breccia. Volcanic fragments
characteristically contain feldspar
phenocrysts.

TIVr

(may contain white to buff recessive
felsic volc flow rocks
and Qtz feldspar porphyries; commonly
pyritic)

Doug heli pilot
says there is a
B24 Liberator
in Wellesley Lake!

gold anomaly draining into Wellesley
Lake @ 6911350 564900
"Au Well" in GPS

Wellesley Lake, Robert & I
get dropped off & sample
Carmacks Volcanics North
of where we wanted to be.

split up & ran down two
creeks

⊙ JUR02017 006 0566598
6924426
soil lots of organics, not
much soil? below ash?
80cm deep

⊙ JUR02018 007 0566692
6924081
soil overturned free
light brown 40cm deep

⊙ JUR02019 008 0566666
6923794
dark grey brown silt soil
red brown overturned free
60cm deep

JvR 02020⁰⁰⁹ 0566602
6923741

dark grey brown silt, water
barley moving

P/U @ 0566423 6923400
"Well PU" on GPS

~~_____~~

June 20/02

Road Trip to SnaFU

Cache Creek Terrane

> north 1/2 of SMA

- locally crinoidal Carboniferous to Jurassic
grey limestone; roof pendants of
strongly magnetic ultramafic

> southern portion

- well bedded ^{ribbon} chert interbedded with
shale, siltstone & greywacke (middle
Triassic to lower Jurassic)

> SW corner

- Mid Jurassic Bryde Suite granitic
body hornblende ± biotite monzo
dioritic in composition

DEPOSIT MODELS

- Qtz veins
- poly metallic veins
- Copper gold quartz veins
- copper skarns
- porphyry moly
- High S Epithermal Au-Ag

1963

105C607 TARFU Drilled geophysical anomaly

039 LISA Trenched

1980

053 HANNA ?

1987, '97

MINFILE

target #7 As Sb Ba V U Mo

+ placer claims

did not find
active workings.

① 97701 SILT on creek
 btwn o/c Roger & Robert's
 sample numbers. Supposed
 to be on Calahan
 discovery claim.

Good sample

08V 0574166 6653967

✗

Snafu samples

97701 silt J.R

97664

665

666

97667

97175

76

97177

} rock RS

} rock RH

7 rock

1 silt

KUSAWA AREA

16 of
June 24/2002

105 D/S

Deb - Pb Zn Cu Sparn

contact Nisling
phyllite, qtzite etc
Qtz deformed

Rose Gold Qtz vein

qtz diorite
andesite dykes

PRIM Zn Sparn

Devil hole - Roger & Robert

* If you see Mo take sample for
age dating of mineralization
(smaller Xtals are best)

* Mag Sus - set to SI units
take readings of all intrusive
units.

* GPS for magnetic declination

DIAND frequency.

154.46

Ground to Ground

Capital Helicopters,

Contract #
~~28045~~

28045

June 24/02

GPS

S1 = 1st stop @ vein Minfile (ROSE)

- vein in rock cliff, took pictures of Robert

- Farrell & I fly to Deb Minfile skarn occurrence trenches with massive galena; sphalerite (showing a trench 1.)

97702 sample in trench 1

08V 0450691 6684808

skarn with <1% Galena plus sphalerite, 5% open space
rusty, 2nd any qtz/calcite veinlets
up to 3 umm wide lined with sy
in vein selvages [0.20 mag suc reading]
sample is frothy

Showing a trench 2

97703, skarn massive (SN)

up to 8% in euhedral clots up to 3mm across throughout

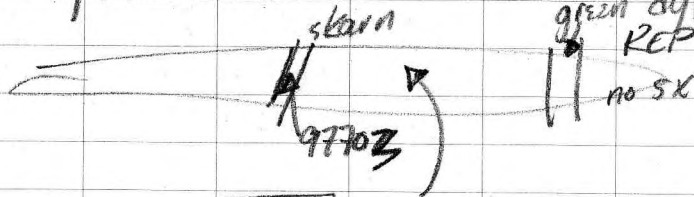
450699 6684800

mineralized structure bears 318°
[MS reading on o/c 0.25]

△ JUR02021

showing A trench #2

DEB
MINIFILE? diorite
green dyke
REP
no SX



97704

intensely rusty fig
intrusive with 2%

fig. diss py, light yellow matrix, deep
weathering rind © 450702 6684808


showing A trench #3



rep sample of large garnets
up to 1.5 cm across & green lens &
layers skarn

97705

assay of grey & white
qtz vein material, cryptocrystalline
rusty fracture surfaces but no SX
observed 450717 6684825


99706SILT sample on 2m wide creek
draining NW target @

97706 @ 429809 6669704

p/u 25m south

SILT - FA took sample @
97612 - 431405 6669787

June 25/02

KUSAWA - FARRELL & I dropped
off @ head of Cirque with
rusty scree slope @ headwaters
of Plead, W stream & GS
anomalies.

Farrell's notes for sample
descriptions; my GPS for
some locations (Farrell assay tags
97600 series)

* stack of claim posts
ready to go (wired together)
but no tags & not standing
grey but not that old.
* GPS 0456370 6715064

soil sample 97617 - orangy
brown frost heaved on grass
patch' at base of rusty
scree slope GPS 456659 / 6715026
with a block of coarse grained
gray weathering granodiorite
talus blocks.

97618 SILT @ mouth of cirque
 @ 455656, 6714707 side of
 main channel, low velocity
 stream up to 5 m wide;
 very little silt but pockets
 give good quality samples,
 orange weathering granodiorite
 boulders and decomposed
 granite, + organic mat in sample

97707 Farrell: I each take
 one creek valley to
 silt; this sample is
 on whale's back of large
 granite boulders, dark
 brown soil 40cm deep, good
 @ 455004 6714700 samples

Creek I walked north
 to was dry so back
 in creek draining main
 cirque we sampled.

97708

silt in creek draining
main cirque, 2 m wide
Flowing fast brown silt
moderate quality sample
① 154661 6714366

walk down creek - not
much to see but Granodiorite
boulders, dyke material
that we sampled in
cirque

below 97708, round
boulders of vesicular
grey weathering basalt,
? glacial features?

continue to walk
down main creek
towards meeting place
with Farrell

*awesome game trail for a while

97709 @ 454419 6713849
silt, poor quality, granite
boulders

97710 @ 454193 6713453
fine sand & decomposed
granite in southern creek
that Farrell sampled; right
at mouth with main
creek.

//

SNAFU

(NAD 27 ZONE 8)

24 of

JUNE 26/2002

	TARGET	N	E	REASON	AREA
MAP SHEET					
105					
C4	1	667245D	567675	86 Au	east of Snafu Cr
C5	2	6690300	568750	19 Au, Mag High ^{? ultramafic body?}	east of White Mt
C4	3	667885D	582350	1460 Au	N of Snafu Lake
C4	4	665775D	580800	761 Au	SE corner
C5/4	5	6679900	566350	W, Cu, Pb, Zn, Iron, ^{? Elevated} As, Sb, F, V, Mo, Ag	S end of 1st
C3	6	6665800	584900	⁶⁻²²⁹ Cu, Hg + Au, Zn, Fe V, W, Mo	S of Snafu LK
C4	7	6653967	574166	Calahan placer claims	South end
C4	8	6659100	577750	105007 Minfilz + ↑ Mag feature	SE corner
C4/5	9	6679000	562000	Moderate Mag	W central side
low priority C4	10	6663000	569000	Weak Mag	SSW side
	(+ Gold RGS #'s)				
C3	11	6669775	583650	11 ppb Au	W side of Snafu LK
C3	12	6673775	586550	12 ppb Au	NW of Snafu LK

SNAFU

JUNE 26/2002

Roger & Farrell check out Target #2
Robert SE of their drop off.

I fly just North of Target 5
1mst o/c everywhere

▷ JUR02022 rep sample of 1mst
o/c white grey weathering massive
LST with red rusty patches on
fracture surfaces.

① 97711 567304 6682359
soil in 10m wide gully on
ridge line? fault structure or
recessive unit bearing a 360°
dark red & black soil; moderate quality

② 97712 567289 6682339
sub crop of brown weathering
dark grey matrix (fig) ? ~~basalt~~
dyke trending 350 40NE?
- 90% matrix with vesicles
filled with olivine xtals up
to 2mm wide

97713 buff pink weathering
dolomitized 1st with calcite
veinlets & fracture coating,
sub crop grab sample

P/O @ 566903 6682209

RH/FA to check out targets
3 & 6

RS/JVR to go to #8 & 4
plus fly by placer claims

@ Target 8 chert dark grey
weathering black massive cherty
argillite with local rusty
fractures; Rep sample of 6/c
above ss'kers, above Roberts
sample - JVR02023
0.01 to -0.05 Mag Soc readings on 6/c
350/80 E ? bedding but major
joint set for sure

Tarfu Minifile (105C 007)

OLD Drill pad with last CORE
box - three samples 97714
97715 97716 taken from
box - not split; @ 057 8558
6659174

Drill Core

☐ 97714 - green serpentinized body
whole pieces but ground.

☐ 97715 - further down hole,
shredded, less serpentinized, graphitic
argillite; 1mm white calcite on free surfaces

☐ 97716 - end of hole; badly ground
core pieces; dark grey chert with <1%
diss. cop. brassy bl. up to 6mm wide
in frad. surfaces; late calcite veining

Fly east of target 4 $\frac{1}{2}$ up
creek on foot, creek dry
but found sample marker
in tree @ 584063 6659257
that said T 129.7-3, saw
flagging tape further down
same dry creek

Kusawa KampOut

3 Jul (2-2 person camps, setouts)	1/2 day 4hr	set out in afternoon, > 1pm
5 Jul (move, setouts)	1/2 day 3hrs	afternoon > 1pm
7 Jul (mov, setouts)	1/2 day 3hrs	11 - 5pm
9 Jul (demob)	1/2 day 4hrs	1-5pm

Robert: Jo to targets

Roger & Farrell to targets

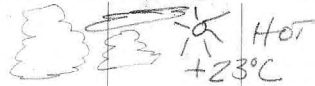
TO DOWNLOAD GPS on laptop

- plug in GPS cable & GPS to cable to laptop
- turn on GPS & navigate to "interface" (under system)
 - choose "Grmn/Grmn" option
- open GPS utility
 - download all
 - click only waypoints
- save file

Map in Excel

- open (make sure "all file types" available)
 - delimited
 - do not import column "skip"
 - space

KUSAWA



29 of -

July 3/2002

Drive out Wheaton Valley with two camps
& two drums heli fuel → Breaker
Creek Bridge washed out
as well as Upper Wheaton
Bridge.

Met DIANE Mining Inspector
up for a site visit to Tagish
Gold Corp (opening decline
@ Skukum Past Producing
mine site).

Had to ford Wheaton River
& drive to good helipad
across from Ocean View
drill sites @ 480894 6671623
(TRUCWR on GPS)

TARGET "C" on Tahini Lake

30 of
July 4th
2008
on say can
see 522

Robert & I traverse up creek
just north of camp with
W anomaly

① 97717 silt in granitic
boulder fast flowing
creek, quality of sample
nod to good @ 448029 6661165
Creek is 3 m wide [MS readings
on boulders of granodiorite
range btwn 5.1 to 6.2 SI]

② 97718 grab of pyritic fracture
in large granodiorite boulder
field, // set of rusty fractures
with <1% f.g. py giving an
orange 1 cm weathering
rind

▲ JUR02024 447378 6664347
geology station, high bluff
of 70% granodiorite boulders
30% with up to 1m xenoliths
of more mafic intrusives +
small amounts of pink granite

△ JR02025 447 195 6663922 station
 geology; rep sample of FG
 felsic intrusive phase of
 granodiorite o/c @ 1140m elev
 buff brown weathering granular
 intrusive with 2mm muscovites, no sp

○ 97719 talus fine of ground
 granodiorite at base of
 steep scree slope; particle
 size 1cm to 2mm 2% orange
 rusty frags. @ 447170 6663050
 (172m elevation; Robert took
 silt < 10m away in creek

○ 97720 silt on creek south
 of camp @ 843m elevation
 447944 6662846 very high
 velocity stream 1.5m wide
 silt behind a large gndr
 boulder. O. of S. mod

○ 97721 silt on same creek as 720
 0.5m wide slower, coarse silt
 O. of S. = good; 448290 6662930
 759m elev; still in granodiorite boulders

CAMP C TO CAMP F-1 MOVE JULY 5

sample creek we are camped beside

① **97722** @ 448450 6663896 (752m elev)

good dark grey fine silt on active stream bar, creek is split 5 metres apart sample north branch; grdr boulders & decomposed fragments make up coarse fraction

② **97723** 1st major drainage north of camp @ 448256 6665819

(Elev 790m) small low velocity stream 0.30m wide, coarse

grdr gravel Q. of S. = mod

silt on active stream bed;

walked over lots of dry creek gullies not sure if this is the main one

***JUR 2026** station on large boulder train where main creek is

supposed to be (must be U/S)

Rep sample of black lichen covered

grey weathering coarse grained granodiorite, abundant black

hornblende & feldspars average 4mm

in diameter grey of 2mm in size, fractures are dry

① **97724** on second creek north of camp
 @ 835 m elevation 448038 6666437
 moderate velocity creek of 2.5 m wide
 producing active sand bars &
 deposits of silt & granodiorite
 gravel behind large gndr boulders

~~Q~~ * helicopter calls - h2 152 early
 oo Roger called him last night!
 run down north side of
 2nd creek

② **97725** Gndr float in large boulder
 train east of silt sample,
 rusty fractures in 0.3 m boulder
 giving orange stain as envelope
 around 4-6 mm biotites & rare f.g.
 py blebs & specs, boulder is angular
 so not glacially deposited.
 @ 448621 6666683

move to target F, Minfile
 locale, drop camp then
 lift up to claim posts

97726 rock group of rusty metaseds
 with crystallized granular
 texture, layered, orange dark
 maroon weathering skarn, <1%
 diss py + black specs non magnetic
 low luster 447506 6681312
 1912 m elevation

also rep sample
 in a recessive 1m wide depression
 oriented 350° with 1mst o/e
 & subcrop on both sides - RS
 station, also some crystalline
 marble, & not far away
 garnet skarn mineralogy.

calcite
 bands →

① 97727 soil in frost boil on FW of
 1mst in metaseds with garnets
 @ 447391 6681496 (1913m elev)
 good quality sample taken
 4-10 cm deep, yellow brown
 lots of clay & fines.

① 97728 soil in limst unit
frost heave again, rusty
brown fine soil 20 cm deep
447370 668 1476 elev 1913 m elev

② 97729 soil in frost heave, good
soil development on top
of ridge, depression 1 m²
in limst but also metaseds
from Hw mixed in with limst
447394 668 1432 (1916 m elev)

③ 97730 soil on Hw of limestone in
metaseds 20 cm deep, dark
brown/red, less clay @ 1955 m elev
447390 668 1367

④ 97731 soil in frost heave, less well
developed, mix of sub crop?
flat, limst, biotite altⁿ sediments,
less clay in sample
447407 668 1289 (1922 m elev)

① **97732** soil in small poorly developed frost heave near contact with intrusive, fragments 95% mfa seds with increased qtz content (some rose qtz) 447371 6681158 (1892m elev); on south facing slope now

② **97733** soil south of 32 poorly developed frost heave rocks are less altered, more qtz rich, weak hornfels, distinct purple/green hue to matrix, local py, finer laminated, 20 cm deep, fair 447321 6681042 1868m elev

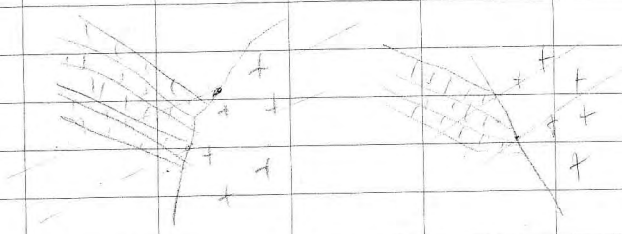
③ **97734** rock ^{grab} angular 0.5 m² boulder in intrusive talus slope, rusty weathering rhyolite dyke with 4% silvery grey pyrite in blebs up to 5 mm wide; 447208 6680711 1775m elevation

TARGET F-1
(PRIMROSE MINIFILE) WOW

July 6

hike up behind camp over to
intrusive / metasid contact
then make our way over
towards the Dept

- 97735 rock grab of o/c very
near contact with intrusive
2% fig. py in siliceous? bio
with diss biotite, limonite
on fractures, ? one spec cpy?
446121 6682157 1813m elev



- 97736 talus fines below meta
sediment outcrop on south facing
wall of steep cirque; rusty
weathering biotite rich metaseds
make up talus slope; fines are
dark brown/red, incolor QtzS. = fair
445763 6682619 (1855m elev)

- 97737 talus fine west of sample
#36 closer to intrusive contact
also near the buff weathering
sill sampled earlier by RS.
445725 6682633 (1861m elev)

827
 97738 - 97742

RS descriptions
 1/2 way points of silts & skarn

97743

rock grab of skarn
 mineralization on HW of lmsf
 446529 6682250 (1750m elev)
 40 cm thickness of skarn bed,
 massive sphalerite with green
 actinolite xtals & blebs
 @ lmsf contact (HW) with
 bedding of lmsf 130/44S

97744

silt below skarn
 mineralization = lmsf crossing
 creeks



@ 446555 6682259 (1748m elev)
 good silt behind boulders, metassals
 1/2 10% lmsf cobbles in creek

△ JUR 02027 skarn in o/c @
 446571 6682207 20cm
 wide, with malachite blebs
 less sphalerite than in creek

⊙ 97745 RS notes on silt

△ JUR 02028 1mst above camp
 @ 447211 6681559
 elev 1872m, splits in
 two (other section we
 sampled yesterday
 gray white weathering 1mst
 subcrop, 3-5m wide
 on west facing slope,
 on HW side, 2mm - 4mm
 pink garnets in thinly
 laminated mica sands

✗

(sampled fluorescent green zinc moss
 near camp).

205
10 of -

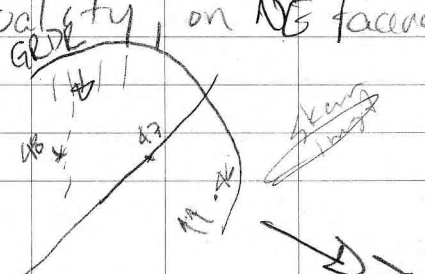
F-1 to next camp (Maghi) Nov-July 7

Jur Target 6686100, +39800

① **97746** silt above camp F-1
on north side draining contact
but Gldr boulders
Q of S. = poor, very low
stream velocity, goes up/g
447121 6680598 (1716 m elev)
high organic content

② **97747** silt in main creek above
camp F1; major creek
draining cirque, Quality of
Sample = good, fast flowing in
wide creek @ 446975 6680532
1726 m elev; Gldr boulders 100%

③ **97748** silt mod quality, on NE facing
slope, south of
main creek, Gldr
boulders
446920 6680439
(1725 m elev)



▲ JiR 02029 station on blocky Grdr
 subcrop south west of camp, grey
 weathering megacrystic biotite rich
 granodiorite. rep sample
 1 rusty fracture observed in
 talus pile; (Mag Suc readings:
 0.74, 0.68, 10.6, 0.33]
 446887 6680151 (1738 m elev)

⊙ 97749 silt poor quality, lots
 of moss mat but just
 down stream of zinc moss
 @ 447202 6680185

⊙ 97750 silt good quality drains
 steep crevice south southwest
 of camp F-1, all granodiorite
 447026 6679429

Heri Move @ 11 am to
 geology above anomalous
 Pb stream sediment sample
 (RS check out U RGS
 geology above).

MS 0.2-0.4

MS 0.00-0.06

0.4-0.6

- △ JUR02030 geology station at helicopter drop off location 439171 6686153 (1846m elev)
- d/c of thinly bedded? steep dipping medium grey weathering gneissic unit (metasalts) @ 159/70E abundant biotite and elongated phenocrysts; unit X at by 40cm to 1m wide
- white weathering medium grained Qtz/felspar d/c trending 065° (rep sample)
- Also some grey weathering dark green intrusive blocks
- just south of station (rep sample also)

The sediments become less gneissic & more schistose as I walked towards sample

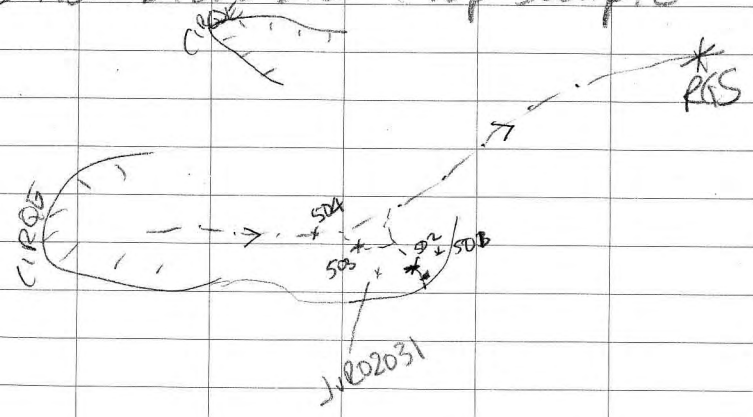
- 56501 439404 6685863 (elev 1808m) intensely rusty rock grab of subcrop on south facing slope, thinly laminated biotite rich, local but large f.g. py.

① 56502 silt mod quality
 on SW facing slope
 @ 439503 6685648 elev 175m
 just below some Zn moss? on low
 velocity 1m wide creek with
 schist boulders everywhere

△ JuR02031 @ 0439199 6685637
 1667m elevation; just crossed
 contact into light grey
 weathering biotite/hornblende
 & granodiorite (creek is contact
 down slope) also large 5m²
 angular boulders of dark green
 megacrystic amphibolite? or
 hornblende (rep sample)

MS 049
 0.23

MS 0.99
 1.69



① 56503 see map poor quality
silt in left branch of
creek. traversed down
goes u/g periodically, mixed
boulders intrusive & meta sed
vety low velocity 40cm stream
@ 439057 6685458 elev 1599m

① 56504 silt good quality
far enough up stream so
previous creek doesn't
affect this sample @
439125 6685169 1577m elev
2m wide mod flowing
creek, mix of meta sed &
70% intrusive boulders

② JuA02032 geology station
rip sample @ 438937 6685277
elev 1561m; Grdu o/c with
jointing at 017/60E with
pronant rusty weathering
fractures, local slicks
on same orientation

① 56505 poor quality silt in
 dry creek bed lat
 437922 6685446 (1540m elev)
 draining southern cirque, walked
 over cirque 90% of boulders
 btwn samples 504 & 505, this
 light brown silt behind a huge
 boulder is sitting in cirque

⇒ ~~↖~~ ↗ my ears are getting burnt!
 437990 6685653 (1534m elev)

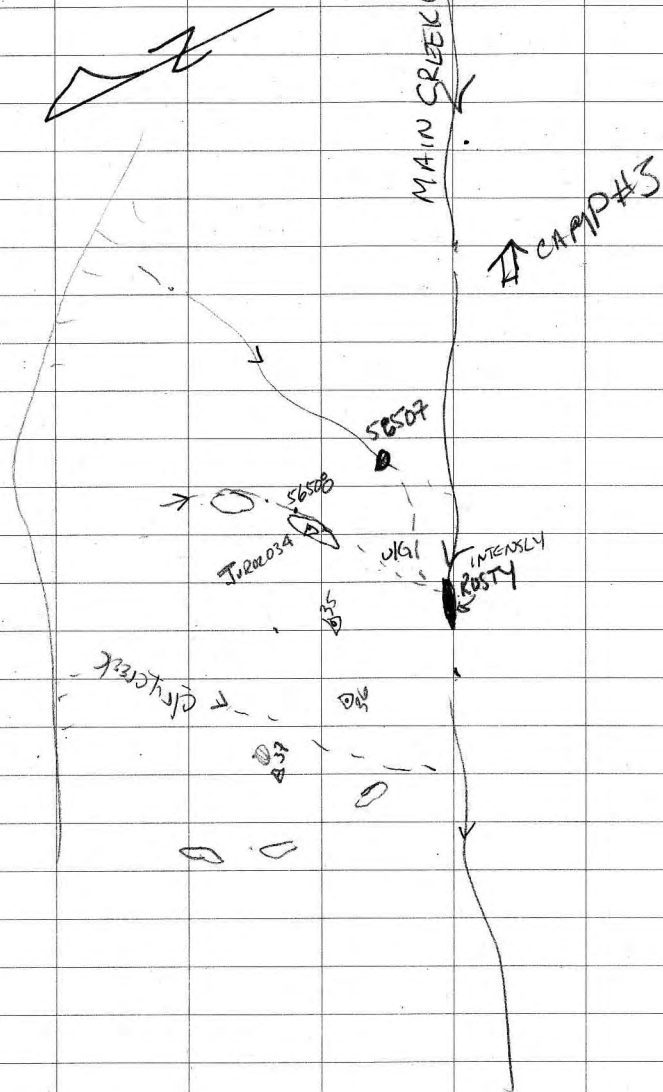
Δ JUL02033 geo station of schist?
 guess thinly laminated 1cm
 wide beds average with
 large up to 8cm orangy white
 Qtz boulders in interbeds with
 intensely biotite rich layers
 bedding layering @ 337/68N
 100m+ long of in creek
 [MS readings 0.23, 0.29, 0.31]
 no lmy beds observed

① 56506 silt good quality on
widening of now rusty
creek below o/c described
on JuR02033 station; silt taken
② 4 37695 6686040

p/u & move back to camp.



- ship out rocks with Wayne "P-Lot"
- 42.5 km to truck in Wheaton Valley from this camp
- ~~37.5~~ 37.5 km to fuel dropped @ Kusawa River campground.



HOT ☼ 47 of -

Camped on Mag high SW side July 8

JUR traverse to NW of camp along Mag high southern edge towards white weathering sediment o/c exposed on ridge.

RS travel opposite direction to intrusive / metased contact

① 56507 silt mod quality on west draining creek not sampled during RGS survey, hornblende granodiorite boulders 5% metaseds in creek of moderate velocity 1m wide @ 440922 6687562 (1485m elev)

△ JUR02034 geo station, silt & rock ^{REP} samples 440839 6687792 (1514m elev) o/c of consistently jointed grey weathering green hornblende rich monzonite [MS reading 30.7, 29.6, 17.9, 21.3, 26.7] jointing @ 049/90 every 15-25cm, same joint orientation commonly very rusty

- ① 56508 silt poor quality in
dry creek bed below o/c
described in JuR02034
(1512 m elev) intrusive o/c & cobbles
in creek bed 5% rusty metaseds
440836 6687803

△ JuR02035 o/c of intrusive
dark gray weathering hornblende
? mozo diorite @ 440577 6687977
1565 m elev

△ JuR02036 contact? intrusive?
rusty weathering Qtz rich biotite
metasediment. 440474 6688087
(1572 m elev) on steep side slope
so not possible metased o/c
(could be slumped). [MS readings
on Metaseds 0.45, 1.69, 3.2, 0.07]

△ JuR02037 o/c 12 m exposed of
gray weathering blocky thinly
laminated ? hornfels ? layered intrusive?
prominent jointing 360/72E and

304/64 NE; ? bedding but for sure
 orientation of layering is 289/29 SSW
 440396 6688250 (1582 m elev)
 Contact is in creek gully which
 is dry but full of angular
 intrusive talus fragments 10 m south
 of o/c. Rep sample of metaseds?
 [MS reading on o/c = 0.56, 0.57, 0.65, 1.04]

AJRO2038 coarse crystalline
 recrystallized limestone white
 weathering @ 440338 6688239
 1586 m elev, recessive gully
 btwn last two stations (no float)
 rep sample here

(1592 m elev)
AJRO2039 inst o/c 440260 6688217
 ? bedding 131/70 SE - orientation of
 thinly layered wafer-like calcareous
 partings 1.7 m wide also similar
 cloudy white layers between beds that
 are 15 cm to 0.6 m apart
 @ this location lime green & light
 pink weathering garnet stain

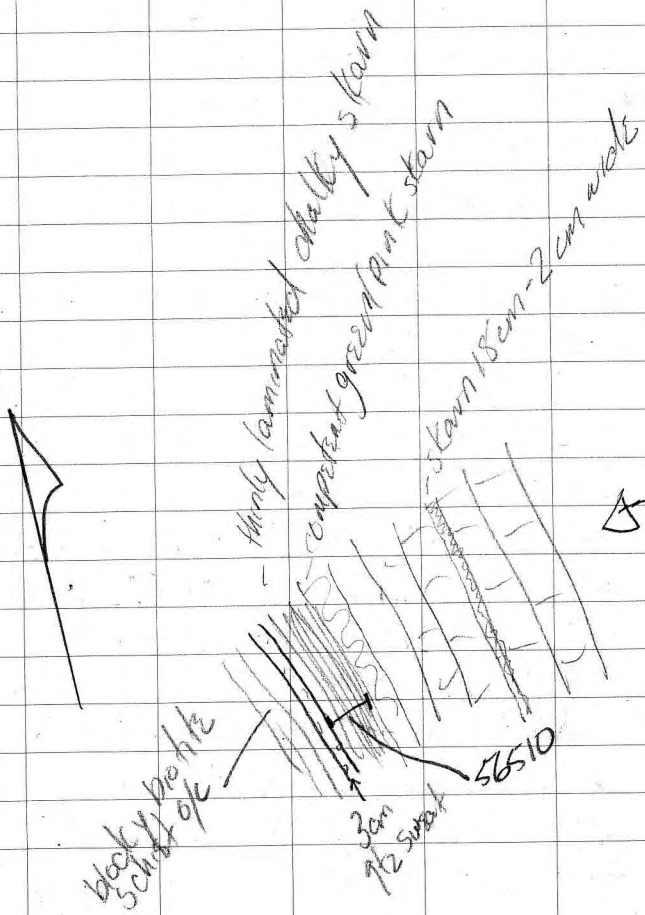
(To 02039 con't)

with non magnetic red streak crystals
? sphalerite (see sample 56509)
[MS readings 0.0, 0.02, 0.03 on ^{drop side} lmst]

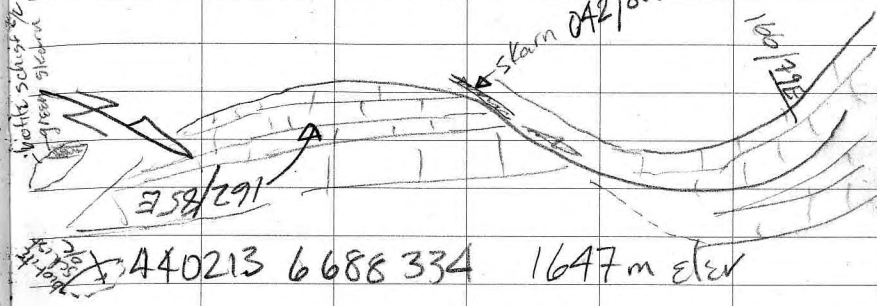
□ 56509 rock grab of garnet + skarn with
blks of ? sphalerite (non magnetic, red
streak dull gray tabular crystals) -
could be siderite? but does not fizz
440250 6688213 1595 m elev
on FW of lmst unit ^{within} up to
15 cm wide, garnets best developed
@ contact with lmst up to 4 mm across
[MS readings on melasids 30.9, 27.6, 40.2]

"OK Robert, where are the massive
sulphides?"

□ 56510 440214 6688275 1623 m elev
@ FW contact of limestone & skarn
with biotite rich blocky schist
oriented 139/72 E [MS readings
of 14.1, 21.6, 12.9 on schist]; grab
sample across thinly laminated
skarn that is 1.7 thick with
more competent green/pink ^(garnet/drop side) skarn
on tw side, no sp seen
[Mag Svc on skarn 0.16, 0.21, 0.16]

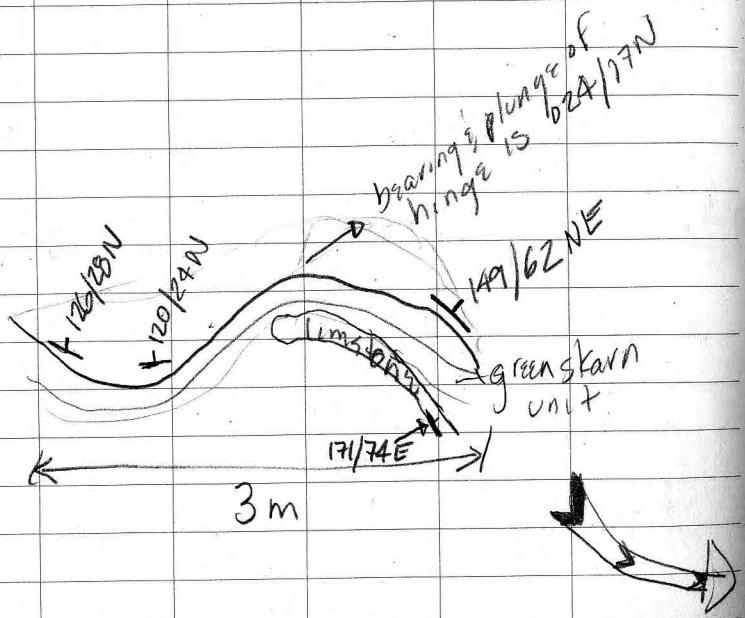


△ JURO2040 1mst knob, white weathering
 coarse talens weathering surface
 gently warped with kitting
 5 cm wide skarn * garnet/diopside



△ JURO2041 ^{garnet/diopside} skarn green/gray weathering
 2 m wide o/c above 1mst knob
 in HW; competent blocky but
 thinly laminated green & pink
 striped skarn; rip sample @
 440219 6688385 (1671 m elev)
 ? bedding 154/68SE
 [MS readings 0.24, 0.22, 0.28]

△ JURO2042 skarn/1mst fold at highest
 o/c of 1mst 440202 6688473
 (1696m elevation)



① 56511 dark brown soil sample @ 45 cm depth below limestone & skarn ^{laminated garnet diopside Fig. 1} o/c but in boulder train, frost heaving & soil fracture evident.
 < 10% clay Q of S. good
 440373 6688514 (1721 m elev)
 south facing slope.

△ JUR02043 small o/c of biotite rich monzonite? ^{hornblende} brown matrix with oliv gran frags @ 440512 6688516
 REP sample [MS readings: 24.2, 22.6, 18.9, 27.0]

△ JUR02044 rock hor o/c on edge of ridge @ 440769 6688219
 grey weathering blocky intrusive
 [MS readings 26.5, 31.7, 37.9, 32.2, 33.3] rep sample
 jointing 110/85 NE

50 m NE of station 44, large angular boulders of white weathering Qtz monzonite? alkalic? with platy biotite Xtals up to 5mm across

① 56512 silt in dry creek bed @
 44 1059 6688423, poor quality
 but entire creek is dry. intrusive
 boulders in creek & train's loading
 into gully. [MS on boulders
 34.6, 29.5, 42.7, 33.6]

▲ JvR02045 MS readings on intrusive
 talus @ 44 1302 6688188
 [31.7, 46.9, 21.3, 42.8]

▲ JvR02046 more mag suc readings
 again in large blocks of
 monzodiorite boulders on steep slope
 @ 44 1433 6688100 on route to
 collect silts; [29.8, 36.1, 30.7, 51.2]

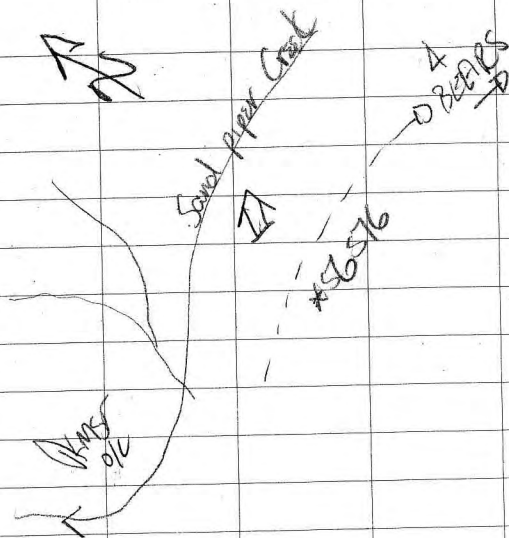
▲ JvR02047 as above only @
 44 1528 6688627 with [MS
 readings of 26.1, 46.3, 30.2, 27.5]

silt
⑤ 56513 NW fork of creek above
glacier intrusive float
in 40 cm mod velocity
stream, quality of sample = good
441697 6688201

silt
⑥ 56514 eastern fork above glacier,
1m wide stream low velocity
quality of sample = mod; intrusive
boulders & talus on both sides,
silt has glacier silt in
creek. 441755 6688147

silt
⑦ 56515 silt on same creek below
intrusive o/c on eastern side
of creek (below glacier)
441459 6687824, good quality

Significant Mag suc readings on
Target E - May High



WINDY →

JUL 19

WAKE UP TO FOUR GRIZZLYS
MOVING PAST OUR CAMP! AWESOME
(200 m away)

Robert & I trav together (with the
shotgun) south of camp to o/c
on side of hill

① 56516 rock grab of intensely rusty
float with heavy iron oxide
throughout, visible pyrite clots
& disseminated throughout
plus dusting of malachite on
fracture surfaces, lots of open
space hematite, limonite/goethite
and manganese coatings, cpy
grains as well; ~20 m N/W of
Robert's sample of pyritic
limestone in o/c (# 56417)
@ 440613 6686567

② 56517 silt on steep sidehill draining
o/c Robert is taking measurements
on; @ 440579 6686514, seep is
20 cm wide with active stream
silt buildups, quality of sample = good

① JUR02048 rep sample of
abundant blocky garnet diopside
skarn talus @ GPS 013
en route to silt sample on
creek; 440337 668649Z

② 9/56518 silt 440151 6686241
1.5 m wide creek drains to
north in argillaceous + quartz
stone slope. quality of sample
is good, mod velocity slope with
glaciers still on half the creek

③ 56519 silt on same creek as
56518 only lower (not sampled
by RGS survey), meta sediment
boulders, quality of sample
is good.

walk back to camp for p/c
don't see sign of bears.

— 17 —

RADIO CALL SIGNS

ZM 0523 6023

ZM 0583 6023

ZM 0526 6023

TNTA HAINS JNC 634 2242

✓
RADIO 165 SA WHSE 668 2177

DAWSON 993 5494

CAPITAL HELICOPTERS ("Jennifer")

ROGER

393-7187 (office)

667-3340 (nicole)

Robert

668 3297

393 7187 (office)

Fareel

668 4773 (home)

YGP OFFICE
667-8508

<DIAND RADIO FREQUENCY 154.46>

SAT PHONE

(PIN CODE 1111)

DIAL

001 (area code) (phone #)

[*X. YGP OFFICE 001 867 667 8508]

KUSAWA JUR
ASSAY REPS

176409
176441
176444
176447

97726
97734
97742

Oct 3/2002

JUR KUSAWA
REP SAMPLES

SEPT 20/2002

JUR 02 002 } pickhandle
002 }

JUR 02 023

Sample reps

025

026

- bag of Potas

030

BAG 031 (3 samples)

#1

* 032

033

034

037

BAG

038

041

#2

041

044 (3 samples)

046 (2 samples)

047 (2 samples)

048 (Bag)

* 071

077

079

BAG
#3

080

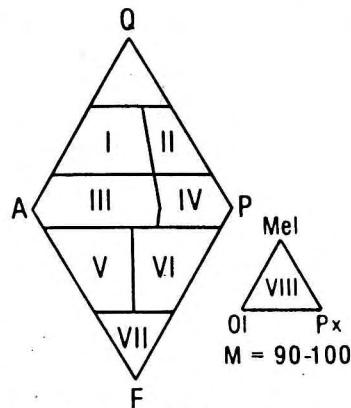
082

JUR 02 ↓ 083

ALL REPS
IN ONE
BUCKET

CAMP 1 7174400
597500

IUGS Group name classification for volcanic rocks
THE APHANITES*



- I rhyolitoids
- II dacitoids
- III trachytoids
- IV andesitoids, basaltoids
- V phonolitoids
- VI tephritoids
- VII folditoids
- VIII ultramafitites

Q—quartz; A—alkali feldspar (including orthoclase, sanidine, perthite, and anorthoclase); P—plagioclase; F—feldspathoids; Mel—mellilite; Ol—olivine; Px—pyroxene; M—mafic minerals.

Most true aphanites cannot be named without knowledge of their mineral components, which requires employment of non-megascopic procedures. Many aphanitic rocks, however, are porphyritic and for those, the group names may be applied tentatively by estimating the overall percentages of the component minerals on the basis of the assumption that the compositions of the phenocrysts reflect the bulk mineral composition of the rocks.

A diagram for the IUGS general nomenclature scheme for volcanic rocks is given on Data Sheet 48. Additional information and suggestions for naming aphanites and porphyries may be found in the following references:

Dietrich, R.V. and Skinner, B.J., 1979, *Rocks and Rock Minerals*: Wiley, N.Y., 369p.

Streckelsen, A., 1978, *Classification and nomenclature of volcanic rocks*. . .N. Jb. Min. Abh., v. 134, p. 1-14.

Streckelsen, A., 1979, *Classification and nomenclature of volcanic rocks*. . . of the IUGS Subcommission. . .:Geology, v. 7, p. 331-335.

1. Under the IUGS scheme, these rocks are termed volcanic rocks.

eral	Composition	S&H	S.G.	Distinguishing Features
RATES AND BORATES				
atite	NaNO ₃	R 2	2.27	1011, cool taste, deliq
ar	KNO ₃	O 2	2.11	011, cool taste, non-deliq
rite	Na ₂ B ₄ O ₇ •4H ₂ O	M 2½	1.91	001, 100, splintery cl, sg
ax	Na ₂ B ₄ O ₇ •10H ₂ O	M 2½	1.72	100, sweet alk taste, xls
rite	NaCaB ₃ O ₇ •8H ₂ O	Tr 2½	1.96	"cottonballs", h, tasteless
amanite	Ca ₂ B ₆ O ₁₁ •5H ₂ O	M 4½	2.43	010, exfoliates if heated
acite	Mg ₃ B ₂ O ₃ •Cl	O 7½	3.1	h, isometric xls
FATES				
te	BaSO ₄	O 3½	4.50	sg, 001, 110, tab xls
stite	SrSO ₄	O 3½	3.98	sg, 001, 110, tab xls
lesite	PbSO ₄	O 3	6.39	sg, ad, conch
ydrite	CaSO ₄	O 3½	2.98	100, 010, 001
sum	CaSO ₄ •2H ₂ O	M 2	2.32	h, 010, 100, 111
canthite	CuSO ₄ •4H ₂ O	Tr 2½	2.29	azure-bl, met taste
anterite	FeSO ₄ •7H ₂ O	M 2	1.90	cap agg, met taste
omite	MgSO ₄ •7H ₂ O	O 2½	1.68	cap agg, bitter taste
erite	Cu ₂ (SO ₄) ₂ (OH) ₂	O 3½	3.88	grn, 010, non-eff in cld HCl
ite	KAl ₃ (SO ₄) ₂ (OH) ₆	R 4	2.9	massive, w, gy or reddish
site	KFe ₃ (SO ₄) ₂ (OH) ₆	R 3½	3.26	y to br, strk pale-y
SPHATES, ARSENATES, AND VANADATES				
azite	(Ce, La, Y, Th)PO ₄	M 5½	5.4	res, y to r-br, 001 prtq
ite	Ca ₃ (PO ₄) ₂ (F, Cl, OH)	H 5	3.20	prisms, h, grn, br, bl, purp, c
morphite	Pb ₃ (PO ₄) ₂ (AsO ₄) ₂ Cl	H 4	7.08	res to ad, sg, grn, br, y, gy, w
uoise	CuAl ₃ (PO ₄) ₂ (OH) ₂ •4H ₂ O	T 6	2.8	bl, bl-grn, grn, h
illite	Al ₃ (PO ₄) ₂ (OH) ₂ •5H ₂ O	O 4	2.33	radiating globular agg
ernite	Cu(UO ₂) ₂ (PO ₄) ₂ •nH ₂ O	T 2½	3.2	pale to dk-grn, rad, 001
nite	Ca(UO ₂) ₂ (PO ₄) ₂ •nH ₂ O	T 2½	3.2	y to grn, rad, fl y-gr, 001
ADIUM OXYSALTS				
otite	K ₂ (UO ₂) ₂ (VO ₄) ₂ •nH ₂ O	M 2	5	y to grn-y, rad, 001
amunite	Ca(UO ₂) ₂ (VO ₄) ₂ •nH ₂ O	O 2	3.62	y, rad, turns grn in sun, 001
YBDATES AND TUNGSTATES				
nerite	MnWO ₄	M 4	7.2	res, sg, 010, transp
amite	(Fe, Mn)WO ₄	M 4½	7.4	brn-blk to Fe-blk, met-ad, sg, 010
rite	FeWO ₄	M 4½	7.51	blk, met-ad, sg, 010
elite	CaWO ₄	T 5	6.12	vit, sg, fl bl-w, 101
snite	PbMoO ₄	T 3	7.0	tab xls, vit, y, or, r, gy, w, h

TRANSPORTATION

Helicopters

Fireweed Helicopters – out of Dawson City
* \$935.00/hour (wet)

Trans North. – rest of Yukon

* \$935.00/hour (wet) except Eagle Plains - \$985.00/hour fob Inuvik until July 31; then \$935.00/hour fob Dawson
* Trans North requires 24-hour notice (give as much notice as possible)

* Base camp available at all communities (except Eagle Plains – parking available at hotel)
* In the event of forest fires, Trans North has no choice if helicopters are appropriated by Forestry but will honour prebooked flights (may have to reschedule camp moves to evening)

Truck

Report mileage every month. We'll put a reminder on voice mail.

PH (867)393-5700
Fax (867)993-6839

PH (867) 668-2177
Fax (867) 668-3420
www.mtateil.com

**FIELD SEASON 2001
Information Sheet**

VOICE MAIL / LOCATION		
Monique or Rod	<i>Call in every day</i> – we'll send a helicopter out if you miss two phone calls.	(867) 667-8508
Magnetic Declination Calculation: www.geolab.emr.ca/geomag/e_cgrf.htm (you will need latitude and longitude)		
EMERGENCY PROCEDURES		
1. Take care of and/or medivac injured person(s).		
2. Call/inform Rod.		Work (867) 667-5384 Home (867) 633-3755
MEDIVAC: Dispatch operates out of Whitehorse – provide details/nature of injury/illness and location (latitude & longitude).		(867) 667-3333
Community	Beaver Creek	(867) 862-3333
Ambulance	Burwash Landing	(867) 841-3333
&/or	Carcross	(867) 821-3333
Nursing Station #'s	Carmacks	(867) 863-4444
	Dawson	(867) 993-4444
	Destruction Bay	(867) 841-3333
	Faro	(867) 994-4444
	Fort Liard, NWT	(867) 770-4301
	Haines Junction	(867) 634-4444
	Mayo / Elsa	(867) 996-4444
	Old Crow	(867) 966-4444
	Pelly Crossing	(867) 537-4444
	Ross River	(867) 969-4444
	Tagish	(867) 821-3333
	Teslin / Swift River	(867) 390-4444
	Watson Lake	(867) 536-4444
	Whitehorse General Hospital – Nursing Station	(867) 393-8700
Northern B.C. Fire / Medical Emergency		(800) 461-9911
Marine & Air Search & Rescue: Rescue Coordination Centre		(800) 567-5111
Forest Fire – Yukon (888) 798-FIRE		(888) 798-3473
Forest Fire – Northern B.C.		(800) 663-5555

RADIO & SATELLITE PHONE NUMBERS
2001 Field Season

<i>User</i>	<i>Satellite #</i>	<i>Radio #</i>	<i>Radio Pin</i>
Rod Hill	Work 867-667-5384 Home 867-633-3755		
Tammy Allen	(403) 997-1307 (Dilman)	2M-5119	2121
Jeff Bond	---	2M-0947	2020
Maurice Colpron	(403) 997-1150 (Dilman)	2M-5173	3825
Anna Fonseca Mineral Assessments	(403) 997-1141 (Dilman)	2M-0523	6023
Ken Galambos	---	2M-0845	6729
Craig Hart	available July 3 (Total North)	2M-5072	3421
Julie Hunt	(403) 997-4061 (Total North)		
Grant Lowey	(403) 997-0725 (Dilman)	2M-3253	4444
Don Murphy	(403) 997-1110 (Dilman)	2M-8223	6115
Lee Pigage	(403) 997-2236 (Total North)	2M-8360 2M-0524	6594 6023
Charlie Roots	(403) 997-1101 (Dilman) 2 nd available July 27 (Total North)	2M-5141	3808
Mineral Assessments Daniele Heon/Kel Sax	(403) 997-0771 (Dilman)		

Unassigned radio #'s:
 2M-0526 pin #6023
 2M-0527 pin #6023
 2M-0528 pin #6023
 (password = geology)