

861047
APRIL

July 26
Travel Van to Sandspit

July 27
Set up camp Lyell Isl.

July 28

traverse with Bill Penland
up Takeley Cove stream to west
- through Masset and - rhyol. $\frac{1}{2}$
- " argillite and limy argillite
float
- through increasing amounts of
rusty clay alt. float of (?) with fine
dis. py / minor silic

- to fork in ck - to south B.P. took
April for stream set near dc with
Kunga 120-125 / 50° minor py
(iron) stain dyke - semi-conformable
- Masset (?)

10:30 am up ck to 175' ash. took 40 cm
horiz. rk chip - grab of py^t - v. rusty

RK1 descepsit: Masset (?) vol. brx with finely
divided sulphide - rock in ck also has
fine sulphide though not app. rusty.

- through rel. sudden change in amt.
of rusty float (see note above).

- crossed Kunga stile few metres above
trends 055 / 90° S

10:47 Strongly sheared mass of
 140 ¹²⁰ / 140 in new float of sil Kunga

11:22 @ 430' uncorrected (low - 1.30')
 stri. sed April 101 SW of
 C185

12:18 pm on slope into showing ck
 near rusty exposure with gray fractured
 C182 (soil) vol. to east
 indicated dip of rusty zone S₆₀E
 V168 RK#2 - B.I. chip-grab across
 4m in sil^a rusty zone - fract. silic
 sulphide - E-W(?) slipping fractures app.

12:39 ADIT (sample C181) in sil white
 weathering rusty, shattered tk.
 90-110/90N

△ RK-#3 across app. structure 2m
 total width of stri. app. 4m random
 fracture silphide smears in sil^{ck} tk.

in small stream BP took
 * APRIL stream #103 Kintan exp in ck with
 white-weathering brx (vol.) exp on south
 spur - some Kunga float in ck
 Kintan dk. green, andesite(?)

July 28, 1979

right in ck with B. lentilium
to station C 179 rusty zone in ck - anticline
+ other exposure of ~16 m² - across 2.5m

△ through rock of dull looking Kertan
with sample C/80 in rusty zone on
south side of ck

#

▷ RK #4 across 2.5m in NNW-SSW ^{fine}
grey-sil vol.

- just downstream chlorite-silica
calnatite ("Fire-dog rock") ? !!

- along small cliff of % on N side
of ck - very rusty, very siliceous

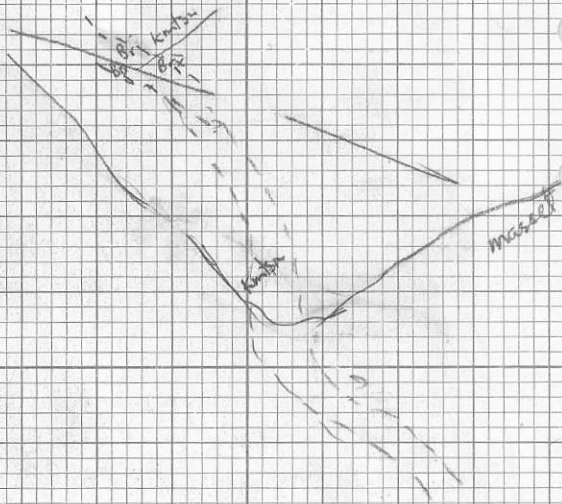
▷ RK 5 grab hand spec of yellow rusty
sil. grey rock with py - common as
diss + strong fract coatings

- apparent trend is down-ck

- mini sweep to N and east of C175
on north side of ck - angular pebble box
similar (?) to rock of C175 and other
rock (float) in ck west of camp

RK 5 hand spec.
between C16-C177

▷ RK 6 over 4m at AC-175
across structure in pebble box
sil. frags



July 28 1979

RK # 7 1m across rusty vol. bre
(on strike on north side of ck)
near contact with ~~massive~~ blocky
fract Kntsn (dk green & med. green)
to north 60m 130° to C175

blue flag, 79R 739 in ck downst. C175
- heavily py^a (fract. & diss.) dark
col. rk with crystal grains - qt, vein

on south side of ck U-168 chip by
B.P. of box (?) RK # 8 20m up slope
to south of 79R 739 flag

up from ck 556 to saddle and down in
"pass ck" - across some green massive ^{massive} Kntsn
then in ck fragmental & pebble bre

5:00 pm Soil sample in vicinity of pebble bre
Soil # 1 (rusty soil)

1st gully to north has app Kntsn
exposed with Kntsn to south side



RK # 9 trap loc. of C184 - grey gneiss
with subthide visible (rusty zone) 1m wide
with gauge section sub vert & 1m west
which has visible py 330/vert
350/vert

July 29 1979

9:00 am - up ck - blocky masset
traverse on north side camp ck
up to 165' on 1st trib 9:15

then westerly - across fragmental
9:20 at % of dyke (?) downhill from
arenitic text green w' th'd volc
poss contact between vol. units 050°/stp
dyke (? contact 140°)

- across variety of vol. esp. v. f. g. rhy. - dacite
- 9:40 on opp side gully from pyritic
silic. vol. f. g. brx.

took soil rusty B' (fluffy & sandy)
April #2 soil @ 280'

- across green white wing brx s
10:00 into more rhyolitic brx, pale green
@ 385' - noted hairline qtz veins
with v. minor (early) pyrite

10:12 hit vsc N-S clay line @ 380'
- brx with frags of flow banded rhyolite
flow banded

10:22 - on spur above C-172 rhyol. brx - s/shallow W
@ 345'

in ck on NE bank sil brx with comm
banded frags of 70% of rock
shaken sides @ 163°/stp W

apparently dk green brx on west side
south-plunging ~ 20° shaken sides
shear zone 045°/stp NW

Δ RK #11 chip Geochron Au, As
f str. sed April #104

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11:30 - ck 500' gongz 060/45 SE
geodon

Δ RK #12 25cm gongz huts
across white w/ly bora for 200m
then across green mass + bora

Δ RK 13 1.5m across 0.50/sharp NW
sharpy + gongz - leached, clay-like

Pass #105 coarse sand with fines
w trickle N-S elev 1450(?)

Sail #3 red soil on south of pass ck
2375' SW from ck

*** Stream #106** boulders dur.
small trickle

+ 30m
*** Stream #107** } > 150 B.P. bands
B.P. } > 50 soils
unbest } > 100 rocks

ck 3
mixed float predom diorite
with some K-inten vol. green mass
o/c



*** Stream #109** boulders of diorite + Ka
2' x 3"
Gard. g. es

APRIL
with Bill Penhall July 29 1979

* Stream #10 - small trickle
- 100m from prev. - red soil
(hill) took sand with fines - float of
kaolinite & Kunga
Vol. 1 - 1979

* Stream #11 is well defined
gully with walls and float of
Kunga (argill)
Some app. Kunga (see below)
* RK14 is ch. took chip of alt.
(bleached) rock (pres. Kunga)
with minor grains py

* # St 111 good size with Kunga chips

* Stream #112 dry ch. 11 to clear line which
is same location
* green andes-dacite with coarse
* f.g. water, mid float

Placer
APRIL - V-108

July 30 1979

with Bill Pentland, - Faining 100% east
 Traverse: along camp ck to west

~ west to 750' east - through series of exposures
 of anatectic diorite - alt. vol. material,
 much epidote, calcite in veins

Soil #4 - rubber soil in rip-up ~ 750'

RK #15 diorite with common qtz-epid
 frags with minor py grains, clasts &
 here and there in frags.

Stream Sed #113 in small trib with sup
 of anatectic dior - qtz-diorite

Stream # 114 upstream from R 75, ^{strike}
 - poor sed coarse with bank content
 - crossed stream between R74 & R73

just above main ck took chip

RK #16 sil. vol. with heavy py
 (this near B.P. sample RK)

RK 17 on north side ck ~ 250' east
 on strike - py + silica in alt
 mottled text.

continued along strike +
 into vol. brex (unmineralized)

July 30 1979

ARK #18 @ 200' asl.

• Soil #6 @ 200' asl. - rusty brown and
some C' horizon

• +20ms 7 200' rusty brown sand, clay

• +40ms 8 " " " " "
(same loc., as ARK 18)

• +60ms 9 " " " " "

• 80 10 " " " " "

• 100 11 " " " " "

• 120 12 " " " " "

• 140 13 " " " " "

• 160 14 150' brown interstitial " "



Return camp up ck between

main showing ck and 275 ck.

- exposure in this ck of stock work
of fsp qtz - epidote in alt. and
vol. with lessening intensity until
in vicinity grid Δ 1500E 200N in
vol. breccia only st. altered.

July 31 1979
Soils with B. Pentland

line 15E 805 to 280N
16E 605 to 380N (some N/S taken)

• Soil # 15 in main - showing ck near
C-179

* Stream #115 near B/C 40m east
of 605 16E drains rocky esp of
anatectic dior - qtz dior - alt vol.
a/c large

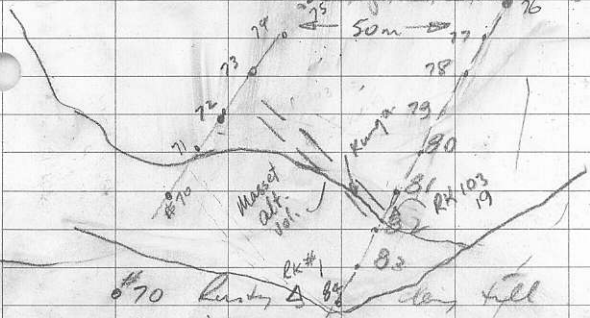
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DUKSEAK WATERPROOF

With
Mike Bayh

Aug 1 1979

g. 07 @ 2/3 of altered Kung
 silicified pyritized, apparently 125°/20°N
 100°/15°N
 Δ RK # 19
 3.5 m SE of RK#103 (grey alt. pinate
 gneiss)

Fault zone, chaos block(s)?



- 70 Rusty clay fill
- 71 dk + med brown sandy w. clay
- 72 Rusty sand + clay
- 73 " " "
- 74 " " "
- 75 (20m from tree) Rusty sand + clay
- 76 Rusty sand + clay till
- 77 " " "
- 78 med brown " "
- 79 Rusty " "
- 80 " " "
- 81 Med Br + Rusty " ?
- 82 " " " " " ?
- 83 " " " " " Very sandy ~

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+10m 84 Sandy med br & rusty
 +10m 85 Sandy med br & rusty
 -60m 86 Rusty sandy with clay
 +10m 87 " " " much rock clasts
 +10m 88 R/S " " "
 +10m 89 Very sandy & rusty with clay

up to 1900 1005 (B/E)
 up 50' then on contour on 20m intervals

1900 1005

20m N 90 Rusty sandy & clay till
 +20m along 91 " " " "
 +20 92 " " " "
 " 93 " " " "
 " 94 = grid 20E 60S; ditto
 " 95 Rusty sand & clay
 Gully 96 med. brown interstitial soil sub
~~Gully~~ 97 Rusty brown sand & clay
 " 98 med brown " " "
 " 99 med brown " " "
 " 120 Rusty " " " till
 sub %
 vol. 1 " " " " "
 br-green 2 " " " " "
 3 " " " " "
 4 med brown interstitial near gully
 +20m 5 on slope till & rubble interstie med br
 % " gully 6 Rusty interstitial above gully
 " 7 interstitial rusty sand
 contact brx with rhydite flow banded
 fragments.

alt. vol.
sub %

hydate box with banded frags

- | | | | |
|-------|-----|--|-----------------|
| ↓ 30m | 128 | interstic fluffy dk brown high org | |
| + 10 | 129 | alt rusty brown sand & clay | |
| | 130 | white rubble " " " " light w'ing | |
| | 131 | light rusty interstical B.2-c | brx large frags |
| | 132 | bright orange rusty sand & clay | |
| | 133 | " " interstic " " | |
| brx | 134 | med. rusty br, " " | |
| | 135 | } o/c white w'ing brx | N/S |
| | 136 | | |

APRIL

Aug 2 1979

- With Brad, Mike + Bill Portland
- stopped at rushing fault zone
of c/l in Takelken Cove Ck
with sil. Kungu(?) (grey white
thin-bedded (lenticular) trends NNW
- at 470' asl. 400m(?) south of
line of c/l took dry gully st. sed
sample - stream trends NE

post 3E, 25 (6N) on April 5 - June
after crossing series of fine fragmental
flows(?) breccias and some coarse bres
+ pillow style c/l with podiform Qtz. prom
Bill to E, self to west of c/l
Silt across variety of dark green
Karm with locally siliceous
members(?)

- slickensides & fracturing noted
which trend ~ SSE-NNW - about
50m from post hit pyritic c/l

⊠ Karm (no flag) RK#26 with 15%
fracture py in fragmental c/l

- + 100m to wavy-banded alt. limestone
white weathering greenish cast on

⊠ fresh surface - highly contorted

RK#21

just south^{sw}, prev. sample 50m took
Stream # 110 - sand + silt with prob.
silt bank contained. in v. small trickle

⊠ flagged as # 116

▲ RK 22 green-cream w/ ring, green
on broken surface vol. (?) grit with
fg. qtz grains - soft. seen 30m east
RK 21 (above). (not for analysis)

▲ RK 23 (located, green, vol. (?)
30m SE of post 35.
(Kana spec.)

along, clay like through float of
sil^d limestone (th. - breccia) flinty, light
green chlorite schist, massive chlorite
volcanic flows

+200m from post hit o/c of limestone
with bedding @ 164/STPE

— Float suite post 35 to 35+300m
includes sil limestone

sheared Karn	}	to green chlorite schist
		dk green " "
sil Kunga	}	very sil. sheared limestone-like argillite
		Kunga - sil. sil
masset	}	qtz-veined (stockwork?)
		* rhyolite - dyke?? on synclin
		rhyolite? with common pyrite cubes dyke??
		massive Karn

Bill P. collected similar suite from
outcrops above (to E) of dam line.

(3)

Aug 3 1979

headed towards post 45 from 35 + 300m (+ 60m E)

next to gully; Bill is sheared 155/vert
con 30m downhill in med. f. gr.
w/ly. fract. vol (?) - dyke??

alt. brxth + sil. Kunga above soil
V-168 #221 @ 650' uncorrected

post 45 out of brx Kunga
- back to 35 + 450m by small
gully took

△ RK #24 } Brx alt. sil Kunga with
△ RK #25 } some epidote alt. - 90%
virtually along drain line

soil V-168 # 221 is 25m SW

△ RK 26 } wall-rock (semi vert qtz vein)
27 } from c } trends R " " " "
28 } R312 } 040/stpe

qtz stringers in green (white) qtz
sheared mid. - highly siliceous

↓ S117 } in west fork } drainage height of
" 118 } in east fork } land/larger is east fork

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cont'd along 400' east. contour
part contact of siliceous white quartz
med. & g. intrusive (?) (?)
to intermed. comp. migmatite
texture - incipient synkin pluton

NO HAND SPEC TAKEN

Returned via H176 to
Camp.

Aug 4th 1979
in Sandspit
Move to Q.C. City + thence
to Kennell Sound.

Cloudy, showers Aug 5th 1979
in Am. orientation of Cuv and mag
over Riley Ch Bear-Strike showing
on line 8+00E then put in Base line
for Gaspel along road starting
10W about where 1W-2W line
crosses road, then set miles + broad
off on lines 12W, 14W, 16W
in PM

traverse up road near b/c 20W
% of heavily sulphide stained
limestones ~ 200m up road @ 65° fr
start

△ RK #30 } on road-side
4 + 10m N RK #31 }

△ RK #32 - box of vol. debris - quite leached
S. 11 30 midway - sandy, till, sl. rock
RK #33 10m SE of prev. Thoroughly
mineralized alt. (oxidized?) (or
clay - alt. dyke (?)!!) - no fresh rock
in SE corner slide-pit exp.
- alt vol. flows - and. Ⓟ

○ S. 11 #31 on end of ~~new~~ trend - old log-road
f stream sed where log-road x's stream (extra 16W)
trickle with gravel + sand - rusty

20

18

80

37

16

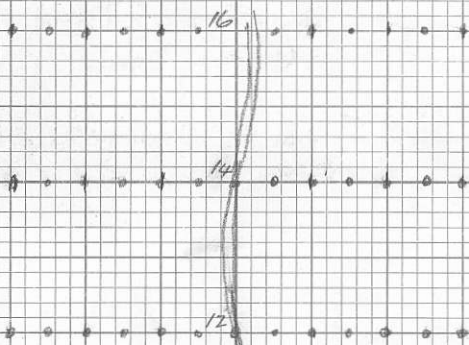
14

12

12

10

8



Aug 5, 1979

Δ RK 34 - coarse dioritic plug(?)
in road cut 100' east.
(hand spec only)

Δ RK 35 Basalt dyke(?) - plug
to north end of dais
up road round Gospel. to north



Δ RK 36 alt green vol. (basalt?) in slide
Δ 37 sil. (stone?) grey rock in
road cut (no! tuff rhyolite)

Hand
Spec

Δ RK 38 sil alt. limonite-stained vol.
bruc

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DUKSBK WATERPROOF

Aug 6 1979

Set out mile + grid on lines
4(S) (6W, 8W, 10W) then 17W)

45W = 0+00E on Bear-Strike grid

662m from 10W = 0+00E Bear Strike
Grid

Δ RK 39 pyrite-marcasite blebs + smears.
Hand in grey white locally flow-text.
spec + analysis alt. rock in vicinity of qtz vein
(lenses) - 033/steep E

Δ RK 40 hand spec + analysis - qtz vein
Δ RK 41 "crush-zone" alt. sol. - hand spec only
(in. west of ^{RK 40}) altered
locally the rock has a coarse of
igneous texture

Δ RK 42 magnetite (?) dyke within
volcan. - phitic ~~lava~~ mélange
around beach - some local zones of
ankeritic altm. - psidiform +
lensoid / calcite - epid - f'spar
stringers + stockwork in volcanic

West of showing area about 200m
main
massive dyke (?) trending 100 (?) and
dipping steeply S with ~~psidiform~~ stringers
- stained zones - contact 040/steep SE
(this latter may be the trend of the
dyke (100° is cross fracture?))

Δ RK 43 chip across 2m of
Fe stained, bleached rock
— similar to area of RK 40 & 41
pods & blebs of py-marcasite

Δ RK 44

(tuff?)

shear zone grey alt. vol.

rocks ^{dior and gabbro} and shows no
shearing → rhinoc. tuff

ARK
45

Δ RK 46 highly altered grey flg.
sed. clastic (?) or tuff on road
between 6 and 7

~~* IMPRESSION ON STRONG
SURFAID OCCURRENCES is
that they are at margins of
dykes ~~activity~~ and along
E-W trending structures
partic in vicinity of dykes
— Also assume age of this str.
after or contemporaneous with dyke
emplacement.~~

maybe just after dykes

ARK 47 C 201

10 + 50W

— purple and. (tuff 1
ang. frags)