V

Mawson

1961
D.S. TRAIL

CANBERRA, A.C.T.

MAWSON,

IV. B. IV
September 1961.

Farmed as usual and made several sets of bedding, 2 lots of under 13 days, 2 lots of 14 days. Horse days. All 2 horses show. Remains to the sky and. Dogs feel sick.

16th September 1961

Heavy snow and fresh wind all day. Self slept in tent all day. Heavy fresh snow on the ground. 

Wet 

Snow knee deep and wind very strong. Trail 16.5 feet. Best forest ever. Money still to get more for morn.
18th September 1961

Up at 0630 but while out present & blizzard forecast in to day at 0815. 0900, all 4 w. black family left for costly depot a semi white out, deep soft snow very thinning. Collected entire amount of depot, 4 Jims pemmican 1/2 in egg boxes, 1 ton oatmeal (4 gal) & beans. Killed 3 bengums & 1 elk. 4 elk in camp
Pretty difficult to catch in soft snow when they toboggan much faster than man can run. Snow falling, light ground soft + wind. Sky wind, T 16°F. back in to tent at 1500. Remain scrambled eggs for lunch. bengum for dinner.
Alt 1016 Oat Hakes
1016 Egg Powder
81/2 14 X 14/16 roll paper
A Rich scones
1 mile south
Middle of Coffee Bluff Road
In summer of the new
put section 2 50' and 5.2.
In depth a under a low lift
3 enduring
flat black rock
2' high
3'6 yds. NE (7)
of a 50' summit
No corn

0630 rose to beautiful morning
cloudless, down breaking as low
gold of ocean burnt under block
slo. Lit sky w. thin arcoma w. wet.
Away at 0630 after establishing depot
as talked above. Deep snow
somewhat among near slope butt
temps 00°F in traps surface.
Track outside icebars better,
fewer high & jumbled ridges.
Done from next way across
w. intermittent leading to low
pressure ridges, much easier in
good light, sun warm but light S. wind v. chilly.

18/10 arrived at previous camp site North of Depot I. Dry
fish soft snow out of hole, up tent + in by 2100.

Beautiful evening but mud too
Fresh S. by wind, v. cold


500,000 maps, at a
N.W. point of Shaula Island.

Gonolithic pyroclitic quasi
intersandite w. gonolithes
quartzite, str. 165°/vertical

The quartzite is a white to
grey coarse-grained rock w. SAMPLE
> 20% heavier - col. med. gr. 123

* small pockets aplite +
* Rare bismuthite w. bismut
Seems to be a gradation into feldspar-pyroxene - SAMPLE 124

garnet green - one band of pyroxene - SAMPLE 125

has helicoid lens of pyroxene

rock in a 'quartz-feldspar-
garnet matrix. It yellow-

brown colored. Brittle

by one in the exposure.

Pyroxene bearing 'feldspar-
pyrmatite, out the pyroxee

green + quartz-rich sample

pyrmatite views + here 123

are abundant thin layers.

The bigger sword green

is well filled up to

m. q. Yellowish black rock

Dip over north Shawla's

west end, 70°5'S 60°5'S, 120° d. 50°5'S word.

To the section mainly green &

black feldspar pyroxene greises

with rich red, fine-ground, concenretar-

quartz-feldspar -bitlitique green SAMPLE 11521 126
very well foliated, band >10”
stick, abla, black quartz-SM126

biotite, gyttja, med. q.t. to
gr, - biotite, abundant lee
A quite rich, pyrrhotite, pyrite
lee has visible magnetite +
A/V. small quantity baryte
sulfide? pyrite - no forbth.

10’ debrigt dyke, sbp. 70°, cut
quartz-gneiss + pyroxene gneiss
on s.W. corner should form
sb. to 300’ summit, straight + uniform
continuous, at sample.

Island 6, N. of Shark I.,
has variety, pyroxene gneiss
(no granite) red granite gneiss,
L. brown-gray granite gneiss,
F. g. well foliated w. small biotite
ill. porphyro, schistosity, structure
anisotropy, smoothed, plastic body
in cliff face, str. section in as. gr. & med. yr. yellow to brown, quartz & felsic grits well foliated to massive interbedded with black, long lenses in gr. pyroxenite & garnet, pyroxenite, garnet abundant & cr. gr. The section sample 128 11524

In the cliff section 200' a more brittle type of deformation, sliding, brecciation, slabs for pyroxene, quartz, garnet, biotite, hornblende, more plastic re-arranged folding, c 36 islands, re-arranged folds, more...
bluee in dip.

e 1., str. 130° d. 20° S.W.

copper streak, red brown.

Ik streaky as locally a w. quartz garnet group. Also feldspar - biotite & feldspar - biotite pegmatite, mica.

hacked - re-mobilisation??

- Achenar II joined to

mainland by a glacial lobe.

- Western end of Achenar I.

North coast - finely banded

It brown quartz green, garnet

greens, 85 70% w. 20%

75% present green 75+10% birefr.

10% irregular + cemented

yellow brown blotter pegmatite

all str. 160° d. 20° - 30° W.

marly 300.
Row D815, slow breakfast.
Cloudy sky, T - 20°F, but
15 kt E/E wind. Away at 1330.
Wen will visit Smith & Blenda.
W. end. Should. 17th. 21/08

towards South A. on 18/11. 1/11. very quiet - proximist. Towards West
end. Helen, & found Helen joined
by a glacier tongue to mainland
ice, cliffs on west side, glaciers
descended by snowdrift. Found 6 seal. W. end. Helen, at 18.30
killed & butchered one. The
birdly way N. coast had
intense & dramatic recurrent folding
+ dolomite pinions, to sunset,
then home by 21.00.

20th September 1961

on North coast. Helen
at West end. finely banded
a rapidly alternating It
green granite-phyric grey
granite-black or red
flakes of pyrite. census,
the brassy & yellow quartz
just panned some lite. tr. 

[Signature]

11
Foliation st. at 60° d.
5° to NW with at 67° 30° - 60°
but lithological bedding
in detail at common shelf (700)
to vertical, + broad foliation
cuts lithology, strike all
these both.

In gneiss quartzite

Kwan Promontory -
The NE-NW end of the
promontory is separated by
a double-ended fault. Ice
gloves from the rest of the country.
The structure of the formation is apparently simple, Str. 140°
dip 20° - 30° S.W. but in detail structure is complex. Lithological units with boundaries are present vertically. N.E. and N.W. are isoclinal folds, or small, with vertical limbs, axis plunges towards 160° inclined 10°.
The rocks are almost all granitizers - mat gr. & co. gr. pink, yellow, & it. grey (quartzite + granite grade), w. rhyol. + thick tuffaceous (granite grade). These are dark, stone + brown to black, and + grey, contain small talc in the material gneiss. In staurolite, the stones dark red brown, common in + quartz garnet rocks + quartzite + gr. + quartz diorite, + + more gr. amy 16%. 1
In a *pyroxene* zone or *Kron Polon"* (30' thick, white 5')
in patches of a material which look like vesicle fillings
Sample are deformed into
Straight 58°, dip 70° West
The rock at right way
It's not what it's worth.

At close to the is a 30' thick
sheet of *pyroxene* rock
easily and the reorientation
toward foliation - the feature
a few, *pyroxene* green
grade into the quartzite
are probably *tuff* ashes,
"grey" weather. The *tuffs*
are the short boundaries
and the *tuff* flows or "nenus"

*Beyond, to some *granite-
feldspar pyroxene* rock or minor
minor - west dipping
this (70° to horizontal) 30' thick
of which is similar biology
At Dann Depot, east side
Bromont, of quartzite
granulites w. small amount

The figures were
blurred and the plate
is crooked.
dark, wavy, f.g. white, very
well foliated, granite x16
granite well exposed in bank. Showing
115.0. f.s. for exposure
species all w. granite,
granite porphyritic. All
str. 140°, vertical & 70° West
dip. Superficially, detail in
trout semi-plastic grading.
Storing

none of f.s. horizontal
trough in strike of foliation
granite x16 & granite red
quartz are dominant on Kron
pink, yellow, & gray. The
pink has more feldspers.

21st Sept. 61:
none Island close E of
Depot 1. a. Del. 1. West
Point 1/4 his
probable semi-plastic
pith coat of Alphaid. Skidna
Quartz rich grains, Q. F. B. C.
glazed, alt 9 50 F 20 E 10
G 20, light brown to dark brown
rubby, weakly met. gr & ed gr.
Fl. pattistic. Also concordant
20' thick, light greyish-black
granite, feldspar-pyroxene
grains, gneiss w. pockets
illite in between concordant shingos
of chert, quartz-pyroxene
mica, ore grew b
on g, or fine-grained
30% quartz, approx. granular, q t-
feldspar, feldspar in red.
All sb 150/50-70 W. SAMPLE
Also concordant FQBG, perpatite
Fieldspar, quartz + biotite, hand
to be separated in hand, feldspar
is light green, other, green.
North coast

10 Atlantic bliahu

in white coat

Jan 14, 1803

All cast and stille

The weather is very fair

1803

Jllun

R11535

Dated

11531
will reduce, reduced to
Tinny indebted (2'-2'-1') of
grain rate, f.g. to m.g.
only, black quartz-feldspar
pyroxene w. pocket
property, well faceted
all 56° 100°/70-80° W.
Min. rec. 0.14 ft. fields
tomorrow, 0.07 3' and lid
appear affair am 2. If shake
unnerved Island North east of
Kona. Edd. builder w.
well-faceted pyroxene green,
grains 0.04 0.04 quartz
all such. gr. 4 ft. 6
will loose break up
(+3 10') pyroxene w-
they all with Grant saga
of locally common w. li-
050° 70° W.
Great brown quartz among 5-7 mm.

2. Interbedded fragr. sediment. 5-7 mm. Fragments of gray, brown, and white sand mixed with clay. Fragments 5-7 mm. Some fragments 20-30 mm.

Alphard's Fat out is mainly red-brown coarse gravel + indurated sandstone. Est 20% interbedded, coarse, grey pebbles + sand fragments. SB 170° d. 30° - 60° W. Pic 3 or more defunct sheets. Morphology 5-15' thick cut foliation dip 15°-60°, various directions. More resistant fold on.

Rock structure complex, each affected by
fully plastic faults into semi-plastic (semi
brittle) 10° dip, plane 10°
toward 30° NE. Plane

2 1/2 "d. 1 1/2 m. WNW

Editation, subj. strata at
on dip 180 5°. Line A
Must plane is occupied by
a granite by pyroxen emaas
Foliation is not best by the t.h.
but the meteorologically
folds are fairly good.

That strat. 140' d. 30' S.W.
But the folding is a slip.
To a w. remember
folding steps of box house.
str. 140'.

Dumpy
up 0730, away 0815

We H + Black Yakcas.
First stop Albert at N.E. end.
Adenaur to photograph rocks, then
kill + cut up seal West end.
Adenaur 1230. 1500. Arrived
Kurr Promotor to qeley.
1900, quarter's house, secure
Jewel, bit pros, abloototh
simple structure in fut 1. comble.
Dive depot as described at
remain

collect sed an route gone. A. kaga
inget is 629, reach camp at
2205. Fall sleep, next entry, smoon

Diary 21st September, 61

for 6y6o, one at 1200 signal 100.

night. Fast
Ded & gis' fabulous

for Miles in whiteout, aees

for 6y6o, one 100.
22nd September, 1961.

10. Near Shensi North & Northeast of Depot I followed sub-horizontal with dips > 20° in various directions; all quartz breccia lit. brown granite rich green, granite green; wedge quartz feldspar granite green & pyroxene.
Plate Thrust or sliding as noted above (p. 24) is very prominent in eastern cliffs of what d.

Mon dip at 40°, sh. 140°.

The long inclined Fault of the West end of Zephyr has a prominent subtle dip to some considerable distance, 15-20 miles, probably 50 feet. Dips of step to vertical in the str. about 160° on ebblands to S. S. N. but detail is very complicated, step inclined to uncertain S. N.

Northwest cres. S. S. N. str 170° d 80° W., reentrant
Here is Doctor's notes explaining the location of the
\text{hick} with well-defined
\text{semi-glandular} margins. (No sample
\text{between the} hick\text{ component}
\text{pyramidal bases} at \text{hick}
\text{bases} > 50 \text{ ft yellow-brown}
gstructure, green, \text{green} \text{fleshy}
\text{green} \text{fleshy} \text{fleshy}
\text{fleshy} \text{fleshy} \text{fleshy} \text{fleshy}
Day 1. Qannel T. 1. N.E. of Bzp. Intake
1. yellow, brown, quartz
2. quartz + telephylite
Quartz gives w. thin 6
Telephylite: magnetite. All
wells m. absence of
magnetite material

First note very thick > 20'
more fractured than 6'

2. 6' beds
granite quartz grain
probably talc

Boat and the sh. 140'
d 50°- vertical 5 W.
mainly 70° W. well

incorrectly northward 5
erroneous number.
full, Nore line 11 strike
from few inches to
180 feet long - as seen in a cliff of Berg
Eastern end of Lake IV
of broken end of I between
long & Berg of large mass
1/100 of dissident granite
with interbedded it brown
quartz & yellow within
regen green mass.

The concretions are mineral
in the latest post-
recumbent style folding
(what develops the foliation
itself in separate layers)
It shows white sand
Dolomitic granite gneiss
rocks, incl. gr. th. greenish
grey & greenish black +

Iren.

This banded & foliated
was patinated into bands of
about 1 inch green,
+ by ochre & possible mineral
Long. E. 17 yellow-brown quartzite gravel 3-10 ft. across, d 20°-40° S.W. - confirmed by large scale (+100') re-contouring手册.

- Folded intrusions. The intrusions are foliated + folded. Not planar cut, locally slightly. The foliated quartzite granite.
22nd September, 1961

At 0730 F telling, 1100. Half
overcast but good visibility, cold
East wind. Will land on soft
snow. All over 1500 feet
then over about 1800
Windy, beautiful weather.

23rd September, 1961

East end of Crooked Is.
Green to 150N s. veering
To 10° W. sea a recumbent
trough on 2 directions 18m (place)
in strike, apparent loris,
Liberia to D-P, again
before horizontal.
Exploding of filler about 100
not a core of white md
quartz - quartzite sample 130
in envelope of interbedded
quartz - pyrite gray sample 137
quartz - foliose biotite
gray sample 135
Hold in quartzite
Folles striate plane of
nemalite folley
Bright Cu stain, red Fe
stain common in pyrite
Gene 4 in greatest in
not of soil to or : sample
popula, grand 137
popula, grand not be,
and not common
in popula, green. In
poppet, red in water
by garden. Also same
in poppeta, descript.
may be grand
with garden green.


5 in thick + 10' a few
+ 4' in quartz
green, no discordance


West end of the earthen wall
of green, island. Be a poor
river bottom, near, sand
+ a few rounded pebbles. Head
of land, a grand hill
half 100 yds. wide, with
a great platform in builder
about 65' above S.L. +
+ 4th of river alt. 5'0' above S.L.
marked with an X. Included in this small part are the details of the identification:

- The note mentions the term "quartzites" and "quartz-biotite" which are mineralogical terms indicating the composition of the rock. "Quartzites" are a type of sedimentary rock that has undergone metamorphism, while "quartz-biotite" suggests the presence of quartz and biotite minerals, which are common in metamorphic rocks.

- The identification indicates that the rock is part of a larger series, possibly a sedimentary one, given the presence of "quartzites." The "biotite" mineral is also significant as it is a common mineral in metamorphic rocks, especially those formed from volcanic materials.

- The mention of "untouched" and "not altered" suggests that the rock has remained in its natural state without significant changes due to external processes like weathering or tectonic activity.

- The "polished" appearance of the rock implies it has been prepared for study, allowing for more detailed examination under a microscope or with other scientific tools.

- The "dark" and "light" variations in color could be indicative of different mineral compositions or impurities present in the rock. Optimization of lighting might be necessary to observe these details more clearly.

- The "rainy" condition indicates that the rock was likely exposed to wet conditions, which could affect its texture or appearance.

Overall, the identification of the rock is based on its mineral composition and the conditions under which it was found. The notes suggest a thorough examination of the rock's properties, including its mineralogy, texture, and color variations, to understand its origin and history.
Brad Beach at West end (cliff by tide of Middle Island
found sub and building
32' at center with well
defined platform to top.

Made with Plane 27000

for the bank of Central Dr.

Total corn shgs 97 1-200

red hand painted 11c yellow

brown paper paste or gum

green in hand labeled paper gum

3 W", corn (gold)

hairy & chill 16" 2")

quarts to use 17 1/2

old corn gum white 4"

kangaroo quill & red gum

cones in blue & tan

corn in hand quill with

Sh 12 on band - bulk 16 to

50 % W. finishing in 13

inside cradled field

1 gpm - 30° to -10°
DIARY - 23rd September 1961

Up 0830. Town 1130. After

Breakfast. Cold night -16°F

at 6 am. It duly wind. evening

Bus left. Keps. Black family -

To cooked. Es - more quail.

Bottle brown lent, special bread.

Nelly home at 1700. Cagle

45 lon. off. Shores Loc.

Calm. Back to Atlantic F

and at 1830. Starl remainin

in crows to early hedge.

25th September 1961

Abhart 5. From NC en route.

Shore shad joined. Jets again

through 340 and 30. Break

down of station to use when vertical
April 10th. Last night wind was strong from S. S.W. so that I only was able to see the star which was very bright. The moon is in the Heavens and the sky is very concordant.

Much Paint splashed out of container. M=5. Truck + 3 Quart small 4 quart glass jar. town + pyrene gran. 8h 150° & 40° S.W. there folding seen from 1m distance. but lee shore.

Longley 2nd September 1761.
Up 0730 & away 0955, beautiful day, we had light Ely wind, 17-18kts.
In boat to Hwamun 1000, took over boat, which probably too much good judgement.
Left on foot north Point to surroundings islands 2m.s.
Found good camp site beside main shore in ice, some rocks stick in soft snow, but, as usual, dogs eventually managed it. Stood out by 2000, beautiful cold evening, dogs comfortably very content.

DIARY 25th September, 1961
Prg 0700 to mud. Ely wind, light drift, overcast. Wind & drift increased steadily all day, to stay wind heavy, drift by evening. Stayed in tent all day.

DIARY 26th September of 1961 (Thursday)
Wind very strong in evning, 9m.s., Troop to 1000. Moderate snowfall all day, completely whiteout. Wind rose again round midnight, died to calm in evening. Out for cup of mtn. only - in down suit & slippers.

55 m. island abt 2 m. S.S.E.(T) of Mule Point.

Str. 0°, dp, ±60° East, rocks largely masked by fresh snow.

Horn. Dom. garnet-quartzite, with bright Cu stain common, interbedded with concordant quartz-garnet-biotite pegmatite w. coarse knots.


Biotite: pyroxene: green, all minor comp. garnet quartz which are 50%.

The 75 m. Island 3 m. S.E.(T) of Mule Point also largely masked by snow, visible to green feldspar: garnet: biotite: green.

Phys. With. quartz & with knots + concordant lens, pink feldspar in pegmatite. All str. 130°/50°SW.

No accessible sample.
but notable lack of massive or thick pyroxene rocks.

Krion 15

Wetten hut. North point, green to 170°, 30° S.W. Dominantly yellow-brown quartz-rich quartz-feldspar-biotite gneiss, well foliated, xth. arranged in regular bands, picked out by biotite. The rock contains bands > 3 thick of quartz-biotite gneiss, w. fairly sharp boundaries but possibly small scale gradation in one ind. - presumably tuffs? or segregation? - medium-cracked, more massive toward quartz gneiss, to internal foliation quickly poor. Coarse-grained equivalent of the quartz gneiss have a shiny fresh colour (feldspar.)

This previously in notebook been marked as 'concordant gneiss'. The pyroxene gneiss...
strictly concordant | be -
| no gneiss the | so.

Easternmost of King I.s. at W.
end of North Shoe - a 720' raised
beach, small.

Gneiss as Western sand, str. 130°
1. 30° S.W. | mainly yellow-brown
quartzite or quartz 2-cr
quartz-feldspar biotite gneiss,
red. gr. to co. gr. | poor mosaic
to well-foliated deep brown biotite
quartz-pyroxene or feldspar
pyroxene gneiss as above very
6"-20' thickness but well defined
+ continuous. Some thin lenses 2"-4"
discontinuous mafic material in
quartz-pyroxene gneiss. ? biotite? igneous
the gradational breccia, parts early
hypoclastic origin. Sn1128 140

NO GARNET T biotite +
in itself. No biotite gneiss.

+4839

11540
DIARY - 27th September, 1961

Rose 0830 to blue sky fine dry, 70°F light Ely wind, light drift, thick soft powdy snow surface. Crecy ice oil, difficult to track snow over. Arrived 1300 to Neilsen's Island to east, then to king Is. Walley force white bell killed 67 beluga seal. Hung yarn after 1830, snow windless afternoon sunny. Clouds from west east and south styly wind beyond increased to mod. W light drift. Arrived aboard ship at 2100, pitched camp in dark, into tent 2400, sang at 0200, wind increased to blow with heavy drift in morning.

DIARY - 28th September, 1961

0900 rise, half snow wind veary light drift, out to fisheries. Back gale cold snow to tracked bird wall then all day in tent, very heavy drift later, vis. 710 yds.
29th September, 1960

East coast of Broka, close North of camp, steep dips, str. about 160°, dips near vertical (see Outboard joining). North of the dips are & the regular trend to str. 145°/20°NW, all thin + thin pyroxene green interbedded quartz-nod yellow-brown m.g. + co. gr. green, green to scarce. Gentle dip as above (i.e. towards NW) but sub-1/2 change of recumbent folding. North end past Broka possibly a separate island. At northern end cast side, plastic st more inclined locally pyroxene green in quartz green plate trend 340°, incl. alt. 30°, 11 shells. 1/10 a part. slide str. 160°, v.
North East Point of Brakia is joined to
main island by narrow sandy re-curved
island, about 100 yards.
Pt. A is on West side of
the Great Bay & North Brakia
The quartz rich 10. yellow-brown
m. g. well-sorted quartz greasers!
rel. th. 3" - 3' & a few 10
bands m. g. pyrite greasers
concentrated + semi-concentrated
sh. 170° d. 70° W + 50° W. No garnets
no Fe stain, no Ca stain,
no quartzite.

North Point of West side
of the Bay & continuing along
North West coast sheet shingled
sh. 170° d. 50° - 70° W, thick
& distinct pyroxene greasers bad
in quartzite greasers - "Scaly
Greaser" again, no technicolere
quartzite or bright Fe stain as
in southwestern. At this point
a very coarse feldspar quartz
light bi-pyramidal, about 20'
black, red & black over 15
black semi-idioblastic feldspar
corn black idioblastic border
us. you completely anhedral
quartz + large blebs + desta
irregular of white sugary
vein quartz. Also will pyramidal
+ of ceddy it in volume
red quartz-feldspar-bitile-
gneiss griss, med. gr.
well foliated but clearly
a concadent intrusion.
No visible gneist in county

Rock SAMPLES 141

Str. along all along N.W. Biska
cost 4 skerries.
2 skerries, northernmost island off
West Coast of Biska, has
bonds, splinter queer er yellow
gneist, gneiss str. 0°, 180°W.
North end of long island close
west of Pooka, sh. 10°/70°W
- Rel. thin + impure, pyroxene
- quartz 2'-2' in 1+ yellow brown
- quartz + green w. quartz very rare
- w. nepheline. Most lenses in
- quartz + green + in pyroxene green.
- The thin bands 2° red granite
- green, pink feldspar - rich granite
- green off. to quartz - rich feldspar
- poor yellow quartz - green.
- The larger island is 2 islands
- N in 100 m. island smaller
- Slight circular the 31 m 80 m.
- Island larger, elongated to North.

The 5' m 60 m island, bounded green
sh. 160°/70°W - diff constant
5°-7° cts. "long island"
-holding apparent on large
scale but possibly
observed by soft, fine, corn.
The 80 m. Island is the "pink rock"
bench face of the outcrop; January
s.w. corner, Bickie & coworkers
15 m. west of s.w. corner, s.w.
170°, dip 70°, with 20° w. &
with vertical.

Part of Bickie's s.w. coast.
alt. In, w. of s'n most point,
is separate block; along s't
N. point is k.b. alt. 80 m. high,
looks like a ice cliff or Bickie
300 yd. channel between.

At s'tmost point of Bickie - SAMPLE
"discordant" feldspar, pyroxene
rock, sharply cut foliation of ground,
quick but contrast of two is fine.

2 m. seam mylonite, the pyroxene
mosaic occurring biaxial style.

location: the box has turned
Broad gentle Zos & horns steel Zos indicate uplifts.

The cores of the anticlines are vertical instead of horizontal.

The structure is similar to those in the Halbs Island, where a possible explanation of a basic synclise exists on plot.
Bay forming S.E. corner Broken Ice Sheet. Dip: N.W. slope.

Sheets, S. 150°/30°-40° E

Skerry in middle of bay. Too

Faster sub-horizontal. All to be

Shut, Black and White Breccia

Sheet in red-brown matrix.

Hills behind camp are steep

and, see above, dip

probably shallower progressing

Ward to camp.

In hills at head of glacier,

running into N.W. corner of

bay, foliation is sub-horizontal

at low W. 1/4 dls, 200.

Foliation and bedding are sub-horizontal
on Cooks Island guarding the bay.

DAY 29th September, 1961.

Wey 1100, Pine Smith & Blode
After camp, Booke & cut across narrow
neck of ice to great northern bay. Across &
round N.W. point, very quiet in brattida.
Down we de wugen bloof, home aloz.
Sough Coast, 1820. Wom in som all dy.
Alot +10° F., slight cold &/by unpleasant.
when contrary. Sometimes off my betts.
Three by wind yesterday, but still local.
Hevy moisture by soft snow & still poor
surface.

30th September 1961.

Dip at Bokee Camp 5. 70° West.
(50°-70°) On E. Cookide close to North
is very vertical. In Garolion.
Island is sub-horizont + in
Hills at N. side above bay (yesterday)
5 gentle Westerly. 20°

+ ← 1 ← 1
Island Hills Camp N. corner

South West comes Heart's want great
fronc again as warm str. 0°/40° West
Also sheet of semi-transparent
Marine rock dips broadly 30°-50°
West cut foliation at low angle, gen. about 10°

Entire South Coast of Harston
Str. 160°/30°-50° West

Trace at sea (8'-6') well-defined black
Purpurine pyroxene grain in
well-formed/ell yellow-brown
quartz grains. Minor discardant
at concordant veins while pink
feldspar-rich pyroxene veins.

The difference greater tor generally
considerable, in detail discardant
perhaps by tectonic action.
The sediments involved by sliding or shearing a w. portion on pre-existing bedding, though recorded, folding is not so common. We are thus domestic on small scale as in Canada.

In the Broad Bay family the S curve of Ham ton, the quarry in cliffs on N. side bar, sd. about 160° E. 30°-40° E. from may be an eroded anticline or ? Strike core...us above m. axis.

Law Ir. 80° 34' V I 310°
Pr. 1. 30°, vertical. Et end outcrop

The thick psamitic layers (20') are in massive band, well-delineated, segregated into bands and beds of various feldspar and granite feldspar material. Other bands pyroxene rich. 0.600' vertical + k 58.
Pt 2 a. strike swings in bay to 80°W/80°N
at these points, rock as above
continues page 58.
In the magnetite, probably which 
are the magnetite, high in random vein 
bounding lenses, magnetite is a 
local accessory > 10% green
Cu staining is common in magnetite 
+ red hematite-quartzites

DINKY 30th September
Rise 0730, worry 1100; along 
South coast of Havre au Ren 
straight to western and have Is.
Mid. E'w wind / felt warm / in face, T at +15°F, but surface 
better, more consolidated, wind swift.
Geology in magnetite then to camp site at 1630.
Late geology on School of Eng.
1800 - 1435, then leisure dinner.
Blonde's going well but Pete's
still badly chopped about after
being set on by blonde on 27th.
Attention page 55
black through deep sea green
to lighter olive green +
1t. brown - yellow - green
wec permatite is almost pure
These permatites range from
will addition of quartz,
gneiss + biotite horn black
feldspar + grenne green to yellow-
green - yellow permatite - relics
in gneiss - biotite gneiss 1/
all concadant, granitic +
well-weathered. Separating
the pyroxene gneiss boulds
in dark bands various green
quartzite + quartz green,
grey, purple, red, + rust.

w. varying amount
biotite + garnet. The may
The injection gneiss, all
concordant, permatite see p. 56
Preliminary Foliation vertical
St. 50°, recumbent folding
Leaves in pyrope garnet
Angles 3′ pyrope green
230°, incl. 30° - 50°
Biotite, quartzite, fine-grained
Quartzite, garnet, green + feldspar.
Inclusions: magnetite, chlorite,
Tonalite: yellowish dark green
pyrope inner. In magnetite
relationship. Garnet + biotite
are common dark mineral in
the quartz rocks. I also noticed
muscovite, biotite, green w.

Sample 146

Val'c

Sample 147

Quartzite, olivine

Leaves stained by copper red
may be original or may be injection rock.

1st October 61

Small string of 15 or 5 feet of Pt 3/4 continue vertical pyrmid green str. or shew to Pt 3/5 with vertical pyramid green str. 30°, w.

3’ thin + few boulders white grained, but snead w. thin boulders quartz rich.

beige + white to grey calcite-quartz + hyd. zinc

The pyrmids green...
603.2 V  20 ft. 100 variances

Elkhorn bridge 40ft. up.  Elkhorn bridge 40ft. up.

White, white, white.  White, white.

White, white, white.  White, white.

White, white, white.  White, white.

White, white, white.  White, white.

White, white, white.  White, white.

White, white, white.  White, white.

White, white, white.  White, white.

White, white, white.  White, white.

White, white, white.  White, white.
DIARY - 1st October, 1961

Up 0730 - away 1100 in mock. Fly through low Is. Wind increased push to shore + drift increased light to moderate. Rubidly round outside low Is. + cross to Blackrock Head. Dog gang well; outside numerous icebergs clinging. Passage in low Is. Blackrock Head & low Is. homeward by north. Great No. compass. Blackrock Head; many local sleety patches on ice, high temp. many dogs now - 1430 half Blackrock Head, 1730 passed Traverse Is.
4th though pretty, wind to 150 East. Very slippery hard ice.

Last night I'm from Iceland wind steady increased to strong gale
(F. 8) & drift to bear
struggled up slope to chug
work in very poor visibility
+ excited tents in very
heave drift + force 7 wind (= 40 mph
Turbo, 9) + men each windward pole,
1 man each windward guy
ext against wind; then take
with windward flap along
weighted, plan pole men set
Ice pole, guy more to be
unruly, guy men set windward
+ other guys - satisfactory

Into tent 2130
4 bed 2400; a notable day.

DIARY 2nd October
Stop to gale wind battering tent,
very heave drift. Run 1102
North. Stand alone out 1600
It feel dark - check time. Read
Newspaper all day + bed at 230
1st Oct 1930

Pair of sturdy

2nd Oct 1930

Pair of sturdy

3rd Oct 1930

Pair of sturdy

4th Oct 1930

Pair of sturdy
10th October, 1961.
Up 0745, away 1100 after heavy
hurricane in tent - major catastrophe.
Accompanied Piddle to Rookey, chilly
now to large party, numbers below,
much smaller. Off to Iris Tongue
Channel where entered slush pitch
+ dogs, men sledge all sank
through soft wet snow into sea.
Men up to waist. Kept oil to
form ice & solidly led dogs on
harness sledge + Smith + Trail to safety.
Returned very cautiously + found
rotten ice + water common throughout
eastern approach to Rookey. Reconnoitred
route along north shore (Foldoya
shoal) across level ice + out to
sea. Slush everywhere under soft
rich snow. To bed about 1800
but 28°F in sun. About two
miles, put to sea gayly opposite
Piddle so returned camp 1700,
collected seal killer yesterday,
loaded sledge for tomorrow. Today's inten-
tion was running some Scotch b. But
the abandoned a/c ice conditions.
Pt. 111 Small island at N. E. W. point. Islay. Well-banded, finely-banded & well-foliated. Light yellow-green green w. a few thin (3" - 3') bands feldspar- pyroxene green & pyroxene. The yellow-green green is probably a feldspar-quartz-pyroxene rock w. red little quartz & only 5-10% pyroxene. The comp. dark brown uncertain. Str. 300° / 700° W. Islay N.E. and str. 10° / 60° W. Pt. 111 Also pink - red lenses & thin concordant seams feldspar rich permatite. Soaking yellow-green green, but not abundant. Pt. 112 2 raised beades here
possibly 20' 9' 50' but seen at mile distance only. Islay.

DIARY - 5th October 1961.
Up 0730 & away 1100, slow travel in deep soft snow w. heavy sleds laden dog for rock specimen from depot. 1200 Packed team broke after bulling & came up to Smith's team, fight only half-baked as all dogs very hot, panting. Bright sunlight, T. 065°F & 75°F in shade. Followed frost track through slushy patches & surface impeded. Only 10 to 12 but slushy + poor water. Seal holes again between Islay & Cooley slowed progress at 1600. Deep soft snow & slushy puddles followed all way to Wm. Scase's camp site. Forecast I. at 2015, self very tired from soft snow, misty, hot. In tent 2200 & stuck at 0030. Heavy snow in night.
6th October, 1961

Structural observations in
Wm. Seaside, Pitch
Pt. 113
= Str. 160° W.
Pt. 114
= Str. 160° 26° W.
Pt. 115
= Forecast Island
Str. 130° W.
Pt. 116
= Apparent dip
Incl. 20° towards S.W.
8008 V/310
Pt. 117
= Str. 180° 40° S.E. at W. (7) end
Str. 150° 20° S.E. at E. (7) end.
8120 V/329
Pt. 118
= 20° towards N.W. (T)?
Pt. 119
= ? Str. 80° 30°-40° N.
Pt. 120
= True East end and incl. 20° towards N.E. (T)
also sub-horizontal.
Little notable change in iceberg distribution vicinity. Forecast 1
since 1954, but group bays close
E. Pt. 117 my socrot of these
now close to W. and Forecast 1.
Highest alt. 12m. to 1m. W'andl!
Sea ice East Forecast 1. Choked
small bays 1m. out to S. and Pt. 116 island.

DIARY - 6th October, 1961. FRIDAY.
Ran 0800 after heavy snow, light
wind all night. 0900 Dawson.
Forecast blizzard the afternoon.
Set our 1000, tie down all round
feed dogs. Snow stopped 1300,
sun out, lunch - scrambled eggs.
4 out 1500. Attempted
spectral plotting on plate w.
5 molluscs from island summit;
bout heavy snow, masking rocks.
In again 1730 to afternoon.
Test. Light to 13' by wind, intermittent
light snow. T +17°F, warm
in tent w. down suit.
Twill 1 Tuck da Line & body
Wythe
Rail 1 rail all 1 body 40 dp
17' x 5'
Bread: 10 slices/week/day
Butter: 1/2 lb/month

* Coffee: 1 tin/month
Sugar: 5 lb/week

* Cheese: 1 lb/month
Lettuce: 2 lb/month
23/4/61 - Food Costs

33 days from November
25 days from Taylor

1 gallon kerosene bought in 9 days

Coffee
Smith and Trail used 2 times in 22 days
Coffee 2 x daily + 1 lunch time coffee for 12 days

Keepsake used 1 tin for 25 days, 1 daily

Oatmeal
Smith and Trail used 2 1/2 sp in 2 1/8 days

Biscuit
Smith and Trail used 4 1/8 sp daily for 30 days
Then used 5 - 6 1/8 sp daily

Pemmican
Smith + T. ate 1 1/2 block daily
+ 1 block HFB daily

Smut
Smith and Trail ate 2 baps sugar in 21 days

Yam
Smith and Trail ate 7 lbs yam in 29 days

Bakery
Smith and Trail / 3 1/2 lb. in 3 days
Quartz grey (granite), W. Low. 7s.
Pyrite grey, W. Low. 7s.
Yellow-green, N.E. Islay.
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Intersum rocks, N. W. Brook.