

ANTI/TRA/10

TRA

TRA

TRA

TRA

TRA

ENDERBY LAND

L

1965.

ZIVAR - V

ZIVIT - M.

Beck, Bradley, Traje, McGhee - Gen. Ass.

11/18 report

1st Annual conf. held at Cooper Mts.
no full report of meeting yet.
used deep report in book for fuel

2nd Annual conf. held at Cooper Mts.

3rd Annual conf. held at Cooper Mts.

4th Annual conf. held at Cooper Mts.

5th Annual conf. held at Cooper Mts.
only

Summary

by the line of wood and
small amount of paper by
handwritten or by machine
local at movement in following
year kept.

The above statement is true
and correct.

1
Radar



Record & Report.

All data on weather
incl. clouds, visibility,
wind speed & direction.
Partic sudden changes.

Party Table
2 Ice Boxes - 1 empty
~~2 K~~
1 Kibby

~~2 K I's
3 plates
1 set Billies cat 1 bowl
1 Betty
1 box N.A. for
1 Roll Towel Paper
1 Roll Paper Towel
1 Mugs
2 Dishes
1 1 qt fruit jar
3 Cans
2 plates
1 Tin
1 Thermos
6 Onazote nuts
1 Tent
1 large bottle
4 Plastic cups
2 plates
1 folding plate~~

24 Stack Pepsi Kit

Rucksack

4

2 climbing ropes

1 water can

1/2 lb. ground beef

~~1 lb. ground beef~~

25' long rope

OUTSTANDING

KEROSINE

1 primus

Food

Sleeping bag & covers

KITBAG TRAIL (1)

Spur clothing

- 1 pair Mucklath underwear
- 1 sweater - handkerchiefs
- 1 Dasher - work gloves
- 2 pair W. W. W. socks - 1 + 1 pair gloves
- 1 unit kit - work pants
- 1 pair of trousers - cotton
- 1 pair of shoes
- 1 Kit tent & tarp repair
- 1 Hornet
- 1 Mucklath shirt
- 2 sleeping bags
- 1 Mucklath shirt
- 3 pair tent slippers
- 3 2 x 20 mats

KITBAG TR (2)

2 x 20 mats kit kit.

TR 12 curio.

1 Store

3 Bolls,

4 cups

2 pieces

4 plates

1 tin

2 kfs set.

1 paper

1 sheet paper

1 tin

3 bottles

2 small - 10

1 white brown

~~1 hand~~

1 TIM BISCUITS

12 bars chocolate.

1 Keweenaw, light brown. (3)

1st Keweenaw make stable.

2 Dist. Flak.

9th 2nd round p. 1000 ft. depth

9th 1st round p. 1000 ft. depth

9th 1st round, p. 1000 ft. depth

2 Chomney Kops.

1 p. 1000 ft. (Trail)

1 flaring knife.

1 Keweenaw in paper (4)

Coal. samples

Thermos flask

film. Corners

Headlamp w. battery

1 bundle

(5)

2 Ice axes

1 Spade

contd.

1 Ratson Park (6)

∞

1 Ratson Park (7)

1 Kithay - actual - 8

1 Kithay - Review - 9

1 Pyramid Text - 10

2,500'	Mar. T. Jan	5	-4.9°C
@ 4000'	" " "	"	-8.6°C
5500	" " "	"	-11.6°C
2500	Feb		-7.9°C
4000	" " "		-11.2°C
5500	" " "		-14.2°C

Maunaw highest Max. Jan +45° F
 " " " Feb +43.3° F

CLOUD at Maunaw

Mean cloud clearance, summer 5/8
 " " autumn, winter 4/8
 " " Spring 5/8
 Summer 40% overcast days

Approach of 'stonking' jump of
 drift snow on wall of snow
 wealds hatahata.

OBS

6 haly.

0600, 1200, 1800, & if possible 2400

0600 is most important because
 of windhead reading - thro' Antartic

MUST KNOW

10

Wind Speed & Direction

Visibility & general conditions

Type & Height of Cloud

Drift & Whiteout, ^{falling} Snow
- Also desirable

Temperature

Drifting snow

GNH: - looking please for Answer.

On when expecting helicopter
watch weather continuously
& report to pilot & shop.

If Looking down slope see
series of lenticular clouds
means in all of you's
standing wave activity
extremely dangerous to aviation

w. stay up drafts & down draft
puffing cloud downhill of
nths.

Ply must be able to
see - no whitout, no drift - &
must be reasonable wind speed.

~~070~~
2115 to 2130
& if not

0700 to 0730

Contact Ship or
Hawson

Friday, 27 Feb. Tuesday, 1915

12

At dawn I saw a
flat top at about
the height of the top of the
the platform - No, prob.
level base.

Complete the description
of the top of the
height of the top of the
When I reached
boat C. Baccal e was not
singing but continuously
singing a note
Under a cloud of rain

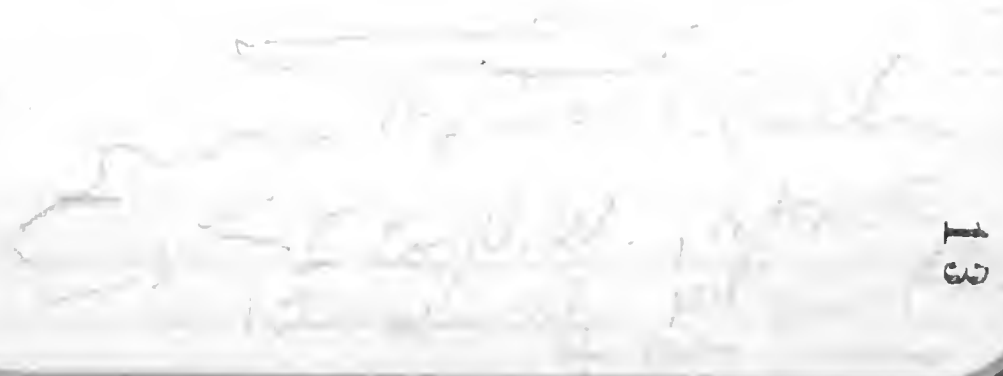
at 200 ft (= Campbell bed)

Quite Is all here
the spores look like blue
granite, (massive
chert, but of a bluish
black

"OH Taylor Green" section
island to the west, 4 1/2 miles
in reddish granite
remnant of a Blue type
rock

Is not to east of here
& more rounded, probably
quartzite but
light & more bed. Only
beds massive & dol. at base

of material for east of N. I. has (discrete) beds of red granite
interbedded with dark granite - as at N. I.



AWT 41 / Run 17 7201 L

main Pk. ...

14

(101)

Stamps 117. - 117.

to ... yellow

...

...

...

...

...

1" to 5 feet

...

The
light
... ..
... ..
... ..
... ..

The
... ..
... ..
... ..

The
... ..
... ..

The
10
30
... ..
of 160° N. W. 10-20 E.
... ..

pegmatite zone.

Of 2. wet feet has
horizontal foliation at
not 200' or less but
light grey rock with
small spots.

V. little spotted on
surface of rock 200'
darker. All surface clean?

An ill-defined lens in the
granulite is a fairly well foliated
rock w. long (6 inch x 5 inch)
striations. It is a
white ~~to~~ pinkish ~~grey~~
white appearance, though
it grades into the dark brown
granulite. Lens abt 3' x 9"
m.g. to c. up.

Pt 2 rocks as above, even
tend, but one may have
blue quartz, 3 ft x 3 ins.

Concord w. pyramite. Parts of
the pyramite are ^{pink} or granite
w. no clear foliation but cut by
mylonite zones. DK. min. prob.
Pyramite. Grain size of
pyramite bands varies m.g. mostly co gr.,
some pyramite.

At Pt. T2 ~~pyramite~~ is more
discordance in pyramite, junction
from concord. band to concord
band. The thickness of a
band varies from 2" to 2' e.g.
+ they are only partially for
me for 30-50' dip by
concord. material in the
band to provide blocks,
band. - a network of seismic
+ concord. paths in the ~~pyramite~~
inter granitic unit &
cut out by mylonite.

On the base N.E. face of Pt 2
the east rock is a m.g. even grained
quartz dark gray with a good fine
foliation compared by strings of g. to
m.g. dk mineral in a m.g. co gr. matrix

of quartz & feldspar

V like the pyroxene - quartz -
 feldspar groups of 500 to 1000.
 4 Bt had - but the feldspar
 here is the feldspar 55° 100°/70°
 - the feldspar of the matrix above
 & ~~not~~ of the joint - trend pointed out
 by KCL. & NOT the ~~direction~~
 the direction of the pyroxene
 network which broadly conforms
 to Str. 55° N.

thin veins on his face
 thin bands + mag. lens 1/2" - 6"
 in some cases slopes
 of mag. - ...



light brown
 as interbedded in shales
 5-10' 2' - 5' ... well
 ...

Approximate - water. Substrate
grass is at Stanton level

The small patch is

on a thin center of the soil (2")
to 5' width

lower down the side (rather
the fall) of the ...

... ..

... ..

... ..

... ..

foliated nature of m. g. ...
The plateau caused by ⁵⁰⁰⁰ steps, sk.
min is by visiting ⁵⁰⁰⁰ steps ...

both have parallel
interbedded grey green
in light. ... interbedded
of 5mm.

→ Rive in a few points
in ... grey ... + green
col. strong ... for ... of
first ...

Plastic ...
but ...

Some ...

...

T
65280054

Sample 401 TL an interbedded
grey green + m.g. ...
...
... typical ...
... bands ...
...
... but it is difficult
to distinguish

up to 4' wide -

Strike 80° N / 73° SE

Pt 406 - wispy northwards
on Spump Mt. rocks str. 140°/70° NE.
pinkish yellow brown m. gr. &
ls grey ?pyroxene - quartz - feldspar
with now dominates & dk grey
quartz or hyper. pyrox. dark colored
mass fones only up to 35%
of volume (4 in some, 20%).

~~1 ft~~ Garnet is here common
in the yellow-brown rock, &
occurs in dk grey lens (continuous
bands of dk grey material are
bands of pink cut up -
- 1 ft to 1 1/2' of. 1-2" thick.
Nylonite nodules, & one
conspicuous lens of ~~ls~~ foliated
~~dk grey rock~~ ls
white garnet - quartz - feldspar

Pt 407 A few small stone circles,
all about 1/2' dia. some
appear to be 1/2' to 1' dia.
Some have good in center, all have

round edges - not horizontal
but are in situ again
just fragment.

— they will be of —
because of ~~intensity~~ of
fragments, some boards
in general form & part
quality cuts.

Also a few slabs
of quartz appear to
flow down hill area
small width (1' - 10")

Only one small one
no other quartz
fragments with quartz
— quartz is good

Biotite is some common
— dark green are many
dark red biotite
No one has seen white quartz.

Along the N side of the melt lake

biotite, garnet, quartz, muscovite

v. fine gr. texture, thin matts

→ 10' ... then ... small

masses of ... → ...

quartz, feldspar

garnet, biotite, quartz

biotite, garnet

to ...

... point

... 160° N

... 160° N

160° N ←

to the ...

for the ...

160° & 100° N

...

... 160°

...

of strike.

65280055
TR 2 - a sample of the dark
biotite-bearing lenses above.

65280056
TR 3 - a sample of light
granite in the felsic rock above

SAT. 8th - Tomorrow 1964

0600 - weather

Wind 160°, 8 kts, gusty

Visibility 50 miles

Cloud 2/8 Cirrus, 15000 feet

No drift but ^{some} drift haze

~~over~~ ~~frames~~ in direction

to ~~over~~ ^{over} frames flts

Helicopter will be at 10:00
Come up on radio
at 10:30

8TH THURSDAY D. H. H.

0400 rise breakfast & assemble
equipment. Weigh & take 150 lbs
on one helicopter, me on other.

Left ship about 0500
Overcast sky clearing in south,
light SE wind. Over Log
Flight $1\frac{1}{4}$ hrs at 65 knots
to Stamp Mt. Excellent view
of Taylor geology from helicopter
landed on snow patch behind
Stamp Mt at alt 875 with
all full gear. Unload & helicopters
leave for ship. Dig tent
into the trench through ice layers
& erect tent solo, then off
to meet icebergs before sunset.
Arrive again at 1000 w. 2 sleds.
Both geology men camp & back
to meet icebergs at 1400 w.
Cook & Wallis. Geology open
to 1700 when 'copters in again
w. Bob Marshall, take out
P. Cook. Wind died in afternoon

several pools melt water
away, and a few blue lakes
on near ice-caps - very
summer of protoplasm. etc.
Bob arrived in the tent, then I
had a walk taken off by cables
at 2000. Bob + I tied up,
kept making sled at 2115,
then had a fine supper of meat
and trimmings washed down with
tea, then bed at 2200.

Wind rose to 20 kts over
0600 or 0700, but died away
to 5 kts about 0800.

Since we arrived, I can't
get used to the severe weather.
I'm not used to it. I
wasn't used to it. I had to
no freezing wind along the
fark - I got I put my face
submerged in water, but I
Keep starfish around in more
clothes than I was wearing at
Austev in - 30° F.

+ I got the feeling that I
 have spent half my life in a
 pain. I wrote up
 last night certain that I
 was still on the way to
 heaven. From the Box in
 the left back to the
 but I don't know how to
 packed in - with side of me,
 so I make up to the

in. But again the
 in the store, the
 matter, I can do with
 eye. But on the layer
 is getting LIQUID WHITE
 out, of a part in the
 room, about 2000
 tent - I saw a lot of
 time + ~~the~~ it means
 me saw how a truck

Pt. 409

7197/L

From here almost all
the high ridges & knolls on
the east side of Stump Mt. appear
to be ^{rather massive} dark grey gneisses w.
thin pematrits giving banding
& this banding appears to be dominantly
N-W on the west side of
Howard Bay.

At the outcrop are massive to
poorly foliated & well foliated rocks
including dark grey & black

? biotite - garnet - pyroxene - quartz - feldspar
gneiss - massive in places, garnet
commonly forms knots \rightarrow 5 mm, +

a confused foliation is given by
irregular lenticles of felsic material.

2 garnet - quartz - feldspar gneiss,
again rather massive, light grey
speckled red

- Augen gneiss ~~out~~ \rightarrow 10 feet
thick in which Augen are

fledspar porphyroblasts with
rectangular form - with almost
perfect preferred orientation in
a f.g. groundmass - poss. w.
much biotite

Also pink-brown garnet - pyroxene
- quartz - feldspar porphyroblasts on & v. on.
gr. a.c. matrix concordant, but
foliation is rather confused. It
has a dominant trend str 110° or
slightly vertical; but it is not twisted
& ~~tilted~~ & broken in on almost
brittle fashion by ~~mylonitic~~ shearing
w. thin mylonites.

On 7199L pts #10

see light gr, reds, peds G-Q-F
ground

On 7197L

Pt. 410 is on a boundary
between ^{rather} massive, black red
gr. pyrox - feldspar grains, which
is given a foliation by elongate
aggregates 10 mm x 30 mm of
m. quartz & feldspar grains.

AND light yellow-brown grey

cross gr. gneiss - quartz - feldspar
rock. The gneiss is
at least 200' thick
the pyrox. rocks, at least 400'
in this exposure & extension
shows that they are much
thicker i.e. Pb. 411, 412, 413
are all black greisses.

The contact of the is fairly
sharp but partly gradational

Within about 3 feet, bands of
of black rock 1" to 6" thick
contain fragments of gneiss of
to 10 mm across, ~~with~~
the bands themselves are all defined (the
original surface) & lie mostly within
the gneiss rock - on the black
side of the contact, ⁽²⁾ top 2' units of

The beds (4" → approximately 5")
of ~~gneiss~~ ~~schist~~ ~~schist~~ (light
pinkish brown) with quite
frequent pegmatite occur
in the same rock.

Throughout the gneiss
there are large veins → 10' x 4'
of black rock - & this
is strongly similar to the Taylor
Gneiss.

65280057
TR 4 - the black rock
65280058
TR 5 - the gneiss
TR 6 - the pegmatite

~~Over~~ Since a close contact over
1 mile in 1450 M, dip 8° NE

The S. end of U/S T is
slabbed - is a ~~very~~ ~~thin~~
slabbed like the black rock above.
- so also has the great western
slabbed except for the ~~thin~~
rock about 100' square like a slab.

A+ Pt 413 *porphyritic quartz*

feldspar porphyritic \rightarrow 15' thick
within the black quartz has
large feldspar phenocrysts +
int. fibrous structure porphyritic
character. The black quartz
is characteristic yellow-green.

Pt 414 - All rocks NE

of the slope the same as RED
- all rocks west of it - e.g. Pt 415.
including the entire ^{S.} slope of
UFT, as black - the
black quartz also

The red rocks are broadly
similar to the rocks of the
composite - yellow-green
phenocrysts ~~no~~ + similar rocks
w. red feldspar from the
bulk of the outcrop.

May rocks, or massive but
likely to appear for a while
- some of the same
mural, but some of the
of pegmatite material, but
no mica - abundant & most
of the rock has partly decomposed
& is found solution.

A typical member for a
a pyroxene - amphibole
m. gr., massive in which
local streaks of the mural composition
giving an ~~un~~ important
of colored patches.
& Small quartz all in place
The quartz into the (red) part
- brown & F pegmatite
& the
low base of the rock (base of 2 ft)
of the rock is dark grey
granular in texture
with small
T 7 is a typical red quartz

T 7 is a typical red quartz
65280059

To red green color
some part, K...
...
... \rightarrow ...
... (±)

At ridge of P4 dip most
common foliation ...
at 115°, dip also vertical.

Col. P4570 of red green ...
...

At 3 well ...
...
...
...
...
...
...
11" - 11"

— Str. 1000M / 70° S.

7199L shows sedimentation of
black ^{slates} + red gray, w.
yellow - brown pebbles,
in SW. corner Grand Bay

There is a large amount
of thin middle top
large amount on the hills
small amount in life I.

Glacial drift is common
& many slabby outcrops
have the same swept appearance
of, say, the stage surface.

Small nodules occur here
& there, but perhaps only
1 or 2 per 100 sq. yards
of rock.

Clear swept rock platforms
also occur at 20-30
& 200 ft above SL level
off I + on S. side of
mainland opposite.

Diary for 9th January, 1955

Radio

Wind died away steadily, and
at 0630 record weather - fine
day, light S.W. wind, drift back
over Dawson, as usual, but
gorgeous morning here.

Radio silent at 0700, couldn't
make ourselves heard though our
carrier went over strongly.

Allen says you are a "wharf
rat" at 10.30" as
we could see why a ship
should come out we were IIVIB.

We went on at 0900

Had breakfast & prepared v.

slowly but ready by 0930.

Tried to contact ship, no luck,
so left mate & headed for
coast S. of Ufs I. at 1030.

Used rope most of way.

Snow & white ice all

softened up by melting & much melt water in shallow channels under snow.

Geology, certainly at least had got a good line on black quartz & red quartz - cf. Novis I in 1961. The wind died completely in the afternoon & the weather was ridiculously warm. At lunch we sat in our pullovers - no windproof - & drank water from a melt pool - we worked over ridge with neither windproof nor gloves - NONE at the time but I got it & we both got severely sunburned.

I was surprised about Bill not being wet, but in his cap sport completely waterproof was much more comfortable than I was in my -30 underseal & fully sealed vents. I finally took my pullover off & I didn't wear gloves ALL DAY. The summer is fabulous. Back at the tent all the pup had melted out, but we have them

in a year, & the 'capers had
 built up a dump of $\frac{1}{2}$ -
 $\frac{1}{2}$ -full drums. So we may
 be right for Stefansson Bay
 we counted over 100 seals
 swimming on the ice in
 the S.W. corner of Howard Bay,
 all being a general brown.
 Lichens, green, black, yellow
 red, & saw a couple of
 varieties of them are blooming
 in the dump spots among the
~~rocks~~ rocks. Summer has nearly
 arrived. Not a breath of wind
 all afternoon & evening, we both
 nearly bobbed getting to
 leave. Kuesack back up to
 mill to the camp, Bob
 insisted on carrying 5 of 10 of heavy
 Buck in camp at 2000.

We had a note from Alon Dook saying
sorry about the radio - his money, - but
it wasn't his fault. Very convenient
man is. As usual I had
periodic attacks of a headache -
always get them at the beginning of
a collection take with - then they
start moving + I forget to write
this contact helps even
I don't know if it is common
occurrence. I don't know if
I've ever had it. - For the notes
were really good in a way.
out in the snow.

10/1/65

Wind 160 knots

Visibility 50 miles

Clouds ~~to~~ ~~the~~ Mil

Some drift haze over

Frances Mts

They had a look at SE
part of Sealwell Hills + we

more like to more so.

44

10/1/65 - Sunday
"Red" rocks continue round
hills east^{W.} of camp.

They are in fact yellow-brown
pyroxenite, or reddish feldspar
in places, & w. a coarse profuse
black mafic rich quartz in
large & small sized out lenses.
Mylonite is also abundant,
making some exposures quite black.
1 b.w., 1 col. photo of B. contact
w. mylonite cutting on gr. yellow-
brown "pyroxenite's"

ANT 41 // Run 17/7199L.

Pt 416.

On the contact between
felsic light red-brown.

gamet-bearing felsic greiss to
west (T) + black + dark grey
? pyroxene-rich mafic greiss to
east. On photo boundaries
are continued from yesterday's
work. Ridges of dark grey
mafic rocks in the valley
curve round ~~around~~ the red-brown
felsic rocks.

The straight contact along the
cliffs here at photo pt may be
a fault.

The mafic rocks are
? pyroxene-feldspar greisses -
biotite not evident - m. gr. & cr. gr.
very well foliated by lenses (
(from 6" to 10' long + 2" to 2'
thick) of m. gr. to cr. gr.
yellow-brown feldspar-rich material
by ~~these~~ similar lenses of
rock rich in dark mineral
+ by thin bands 1" - 2' thick
of concordant mylonite, much
of it enclosing brecciated country
rock.

The light red-brown rocks
 here are unusually uniform
 m. q. to ess. q. garnet-
 quartz-feldspar rocks
 with a faint streaky foliation
 caused by thin lenses of
 feldspar (i.e. ~~2 50 mm~~
 20 mm x 3 mm).

Back of the hill towards the
 camp the "red rocks" are much
 more varied containing mafic-sil
 lenses, & lenses & bands of yellow
 pyrrhotite.

65280060

T8 T8 the red garnet-quartz-
 feldspar rock here

T9 T9 the black pyroxene
 feldspar grains here.

- the ~~top~~ dark pyroxene contents
 in the slaty rounded exposure

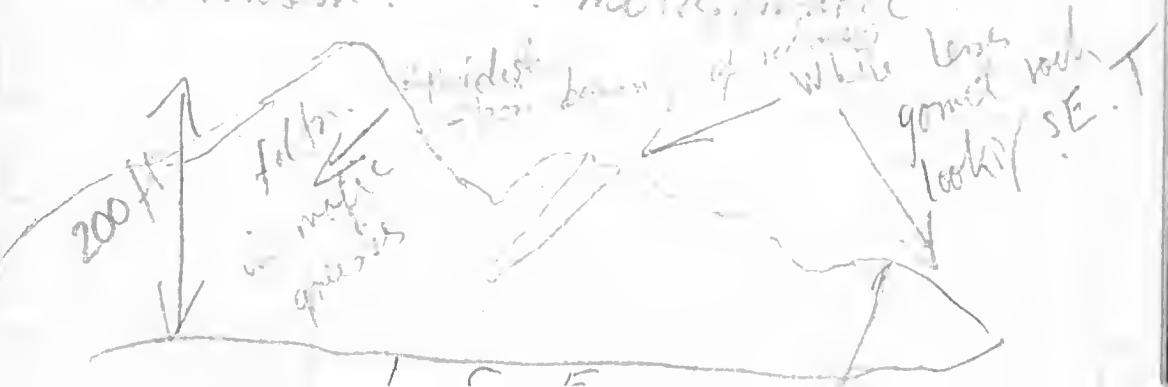
in contrast to the black & irregular
red grains.

The contact between black
& red is a 15-ft-wide zone
of rubble & flaky, frost
shattered rocks - ~~about~~ 80%
of it black gneiss. Outside
this zone the rocks are fresh, their
foliations // the zone but
the black rocks have usual
concord. mylonite - the red
rocks have NO MYLONITE
(? or they should?)

Foliation in both rocks
str. 40° N / 40° SE, but
contact on some str. but
its dip is steeper & may be
reversed (topography) i.e. 70° NW.

Caution in red & black terminology
because of red-weathered facies in
black rocks (Fe-stained) / ~~top~~
of convenience only. Weathering is
perhaps more diagenetic than color
& the red is undisturbed, mixed to
transitioned rocks.

NO T 8 is not a red rock. It is a garnet green lens within the mafic green 100' above it in the "sequence" is a similar white lens, 20' thick by 200' long, concordant with the 50° dip of the black green. This makes the red/black boundary on the photo much straighter. ~~This lens may~~ Takes out the kinks. This lens may be similar to the garnet greens at W. margin of scarp of David Ra at Coats & Henderson. ? metamorphic?



Pt 417 ice-cored moraine mound
in floor of valley bed.

largest mound is circular
8-10' high & 50' in diameter
w. collapsed centre 10-20'
in diameter, depressed 5'

- a large hummock breaks
up into smaller hummocks.

fluvial rays from silt size
(on ice under boulders) to

blades 3' long. Most is

2" - 12", mostly angular,
a few sub-angular.

T10 - silty material from
the ice.

Photographs of large &
small mound bed.

Thickness of moraine on
ice commonly 2 inches or so
~~depos~~ thicker locally. Steep
slopes on side have 1" or less
of ~~st~~ ice is exposed in
the collapsed central valley.
The wall is ~~broken~~ half-mounded

on N. "Jaw's beam" side of
this.

8201V

P+ 418

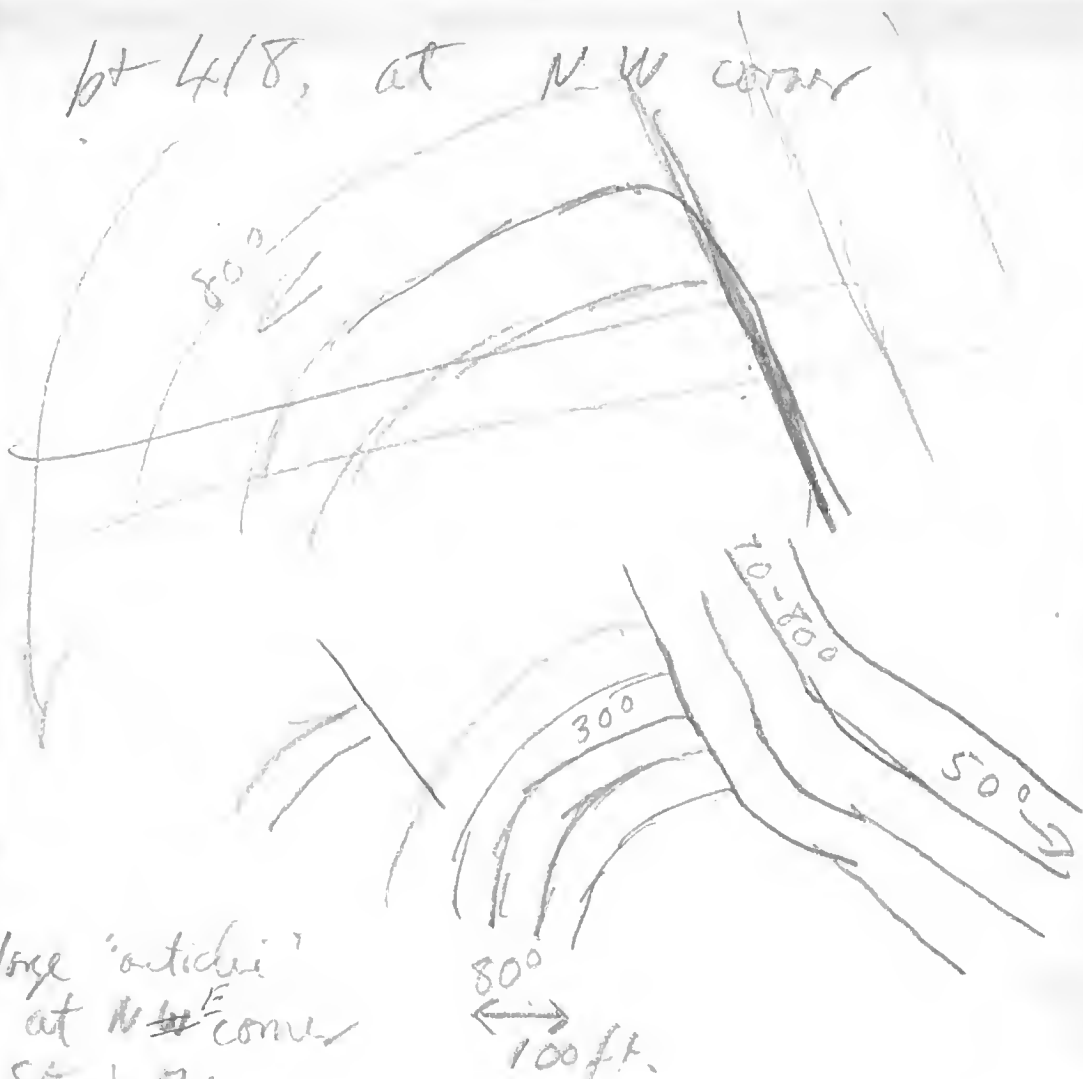
(also on 71994)

50

North of this P+ the definition
between red & black rocks
becomes hazy. Stamp M+
is a mixture of both. It
lacks the abundant permatite
of the red rocks at the camp,
but it has a great deal
of variety & light grey
& lavender bands of garnet
rock - up to 50 ft thick
or evident.

The sheet strike & dip
on Stamp M+ appears
to be abt $14.5^{\circ}N / 60^{\circ}NE$
but is a ~~small~~ ^{local} ^{deflection} / anticline near

bt 418, at N.W. corner



large "outcrop"
at N.W. corner
Stamp 01.

NE. of the big snowdrift at 418
more pink rocks are evident in
down. black gneiss leading up
to Bpd head, but trends
are irregular.

On Stamp 01, all defaced

bands, to grey, to brown
 & dark grey rocks, between
 50' & 300' thick, alternate.

NE of pit on 7199 L
 is a zone of biotite, brown-
 black of pebbles, edge suddenly
 to mid grey (? garnetif. qtz fl)
 at N. foot of slope. Strike
 accord w. Stamp Mt also.
 & mid grey of rocks fits in.
 first slope of Stamp Mt across
 valley.

Pt 419 & its extension to NE links
 up w. 1961 mapping. Description
 of sample. This is merely a
 very large lens of grey rock
 bounded by dark brown &
 black, crs. gr. pyrox - qtz
 green w. a few small feldspar

p'blasts + w. dark brown concordant
feldspar rich or dark blue-grey
quartz - rich pyromatite, iron
like a gneiss chlorite
now - much coarser than

The typical "black" gneiss
~~Sm~~ / ~~Red~~ ~~lenses~~ Pink lenses

→ 300 feet by 30 feet &
grey lenses → 1000 feet

X 100 feet occur in

the gneiss, even-grained yellow-
brown chlorite, but

all str. 130° N (on Stamp 111)

dip vertical or steep ~~N~~ SW.

(prob. also steep NE)

The ~~black~~ of the gneiss chlorite
has ~~the weathering of the~~ resembles
the "black gneiss" in its weathering
by weathering; but in some ways
it is more like some members
of the red gneiss YET it has not
thick abundant or continuous
pyromatite & it is much more
uniform than the red gneiss.

The change from black gneiss to

dark brown gneissic clonochite
takes place abt. pt shown
on Photo 7199 L

Two Stamps Mt is grey green
+ gneissic clonochite (& black
green & red green?) - but
none of these divisions is absolute,
all contain small quantities of
the others. -

The gneissic clonochite an
ridge W. of pt 1119
is on strike w. BYRD HD
(see 1961)

A very good road rock,
marked clonochite, N of
Stamp Mt. - sandy, may
be 40 ft above SL.

Little about this may
be 150' above SL, with
smaller scale rocks

Panorama photo (4 hrs) of lake & raised beach from this point.

P+420 along the E side the ridge, grey & black rocks str. // ridge 50-60° E.

In small island of NW corner black banding in grey quartzite str. See N, T. / vertical.

Moine is common around the lake also the raised beach area, but is not patterned or angled in any way, & it is evidently not thick.

P+421 This ridge at furthest pt is still in g. gneissic diorite as above, w. honeycomb weathering. Red pyroxene, blue quartz, v. cr. black biotite & v. cr. red feldspar are common on the ridge → 5' thick, dykes, semi-concordant, common run for several yards (2-30 ft) though, swell & shrink in thickness. Cut across folia in places.

Thin gneiss common.

56

In 200' across the str. fr.
at #21, ~~to~~ toward str., E
do red-brown gneissic clonate
zones ~~completely~~ into a co.

g. B-gamet - G-F gneiss, pink
red brown, like Compton
is a migmatitic relationship w.

red B - G - G - F paragneiss
& biotite is widespread here.

Across the top of Stamp Mt from
the Byrd Head ridge, there is a
conformity zone of rock - parallel
the view of the east mon. towards
+ many are fully gneiss,
& the foliation is locally much
deformed but the dom. trend is
160° N to 140° N

The large scale structural
picture revealed by the

trend of the ridge + by the trend on
 the ground is that the black
 rocks, incl. the chlorites of
 Ufs I., form the core of
 an outcrop, followed
 by the red rocks,

1 black rocks of core
2 Red rocks w. yellow-
 brown regular berrillites.

3 Garnet-biotite rocks,
 grey + red - coarse foliation,
 frilly, incompetent.

4 Gneissic chlorite of
 13 prd Head.

5 Black gneiss of red
 granite of Norris I.

6 Frilly gneiss of
 Taylor.

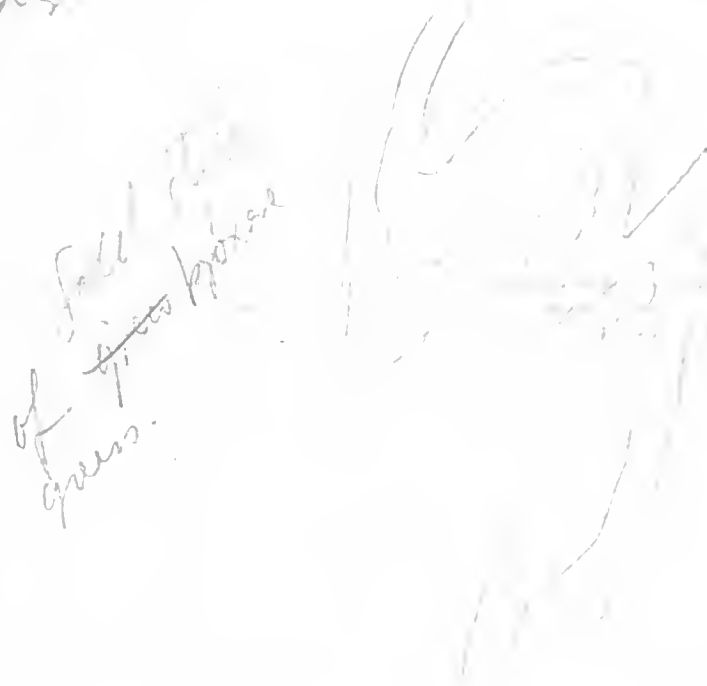
The Stamp 17+ rocks are
 f.g., m.g., + co. gr.
 some are P-Q-F, some
 may be B-G-Q-F, with
 foliated by ~~co~~ fine banded (5mm)

Shores

Some d.k. min. after

58

tightly deformed & foliation
trend varies widely here +
here



fall
of
mass.

They are cut by B-G-Q-F
pegmatite & crs. gr. granite
rocks, some straight sided
but ~~with~~ non continuous
(e.g. 20' x 4') often
irregular, all discordant +
concordant.

Found on - 1/2 m W. of
beginning of course of the
river

- The rocks on hill 1/4 m W.
of camp are = quartzite of
Sturtevant's rocks. The red
rivers - 1/2 m W. of camp + but
they are well polished but
they contain yellow-
brown fragments.

10/1/64 - Monday

The Big Bend - the weather
than the beach. The heat wave
continued to-day + we wore
no pullovers, no gloves, had
lunch in shirt sleeves - 'fantastic'.

Rose hurriedly at 0645
to get weather - gorgeous. No cloud,
wind 5KTS but Karabatic still started
at 0130 P.M.T. Met sled at 0700
- I can hear you but you can't hear
me again. Ian spoke, said we
would move to the Stillwell Hills
to-morrow

all being well. Breakfast
back to traditional porridge + bread, then off 0900 - No Doss - swift!

50

Round Stamp Mt to-day running classification of greisses gave good structural picture. Up

on the mountain Bob was talking about while I mapped with the binoculars - & he said "this is better than the beach!" It is fabulous - the rocks are worn

but walking on snow is unpleasant because of the terrific glare - ~~we~~ we get very hot walking up snow basins. The whole aspect of the place, wet coarse snow, ice binoculars, landscape is alpine & summer - alpine at that, rather than Antarctic.

We had a spectacular ridge walk overlooking 2 lakes, one deep blue

The other bright yellow - funny
to see the sea ice still in place
& these lakes unfrozen - then
slowly hove across Swamp Pt
& into tent at 1800.

Inside the tent it was hot!
we sat around & had dinner in
our singlets - & Bob stripped
off & had a wash in the melt pool
nearby. If anyone had told
me Antarctica could be this warm
- nobody would take him. I would
have laughed at him.

The snow round the tent didn't
freeze again 'til 2100, & even
then we were out in ~~our~~ shirt sleeves
washing the clothes in the melt pool!

11/1/64 weather

Wind 2kts 130°

Vis 50 miles

Cloud $\frac{1}{8}$ stratus 10,000ft, in west

Clear & Sunny.

Cooking pot to-day

To-morrow to Saturday

Pick up Thursday

~~7021 L~~
7201 L All

Pt 422

The rocks are light-colored brown-
to dark brown weathering pink & red
on some faces, w. honeycomb weathering

is ? pyroxene - garnet - quartz - feldspar
solid massive, & sheared by
thin seams mylonite (≥ 10 mm) +
cut in various directions by lenses
of quartz-like blue-grey, feldspar
pegmatite (1' x 4' or so).

No clear foliation discernible
though various joint trends exist
by vague felsic lenses.

From Tschaffert Pk - 12+422A

At Cape Bruce is a distinct
mass of light grey, well bedded
rocks, str. indicated in photo,



plateau type ^{mass} plus ^{mass} plays in dip

This is cut off on 2 sides from
predominant red brown rocks
- all sampled in 1961

Hgs Pk is red brown vs.
concordant cream lens seq
~~50~~ 100' x 20' + near
red rocks are similar.

The "red granite" is at its most
distinct in Horns I. In the
mass e.g. C. Bruce, Stampfl
it is intimately intermingled w. other
rocks. Also the light grey quartzite
is quite distinct from the red part

- again see C. Bue & 1961 sample,
& certainly should NOT be lumped
with it. It is much more
commonly associated with the
black rocks (characteristic garnet
gneiss).

The rocks of Tschuffet Pk
are similar to those near the
camp, & to those on Stamp Mt.

They are cr. gr. & m. gr.
varieties of P-Q-F, G-P-Q-F,
B-G-Q-F, & prob. B-P-G-Q-F.
-all possible combinations.

Foliation directions are most evident
in lenses (2' x 6" \rightarrow 5' x 2')
of rocks rich in dark mineral,
~~to~~ biotite or pyroxene,
but the directions are varied,
the lenses are deformed. A

common direction is that of
the peaks elongation - is. 60° NW/
80° SE. The blue' banded matrix rock w. brown
is also present in the area.

the ~~is~~ are cut by small scale ~~is~~ - fracture ^{cross cleave} / ^{injection}
but the rocks are for the most
part massive, or containing two
or more conflicting directions
of joint foliation - by small
lenses (10mm x 30mm) of cr. gr.
felsic material & stripes & bands
of f.g. & m.g. dark material

Dominant rock is an ~~is~~ ~~is~~
light pinkish brown garnet -
? biotite ~~is~~ or pyroxene - quartz - feldspar
rock - w - pink feldspar, common
cr. gr. as much m.g. w
stripes & small lens of material in
various directions. 65280062

T 11 - the typical massive light
pinkish brown rock. (also v
common on Stamp Mt)

T 12 - Black quartz from
as above where a lens, ^{quartz} falls ^{phase} in dip
~~to determine~~

There is a striking absence
of good cirques at Taylor.
There are one or two on
the east side of Stamp Mt
but the whole outcrop seems to

66
bear the impress of + transsecting
glaciers - glaciers running
from the ice cap through
to the sea.

Where there are depressions in
the common 200 ft platform
it is thinly mantled by
unsorted, unpatterned moraine
slight the deepest depressions are
occupied by lakes. Watercourses
connecting the lakes are
poorly marked or completely
absent. Drainage may be
mainly by soaking through
the moraine. ⊕ Flat parts
of the platform carry very few
moraine boulders, they have a
clean-swept appearance &
4 sq. ^{mi} flat surfaces up to
1000 feet.

S. F. North ridge 7 1/2 miles N.E.
 showing brittle and ...



Reminds the configuration of
 foliations as ...
 folds, refolded folds ...
 B. ... on E-W ...
 - It has been strong cut in N-S
 trending folds
 - although the major ...
 less competent ...
 fact more competent. The ...
 less ... have ... completely

The orientation represented by
the last deformation, but
~~represented~~ of only the violently
deformed "less competent"

basic rocks still retain
traces of their orientation
before the last deformation!

Large Mass at SW pt. Stomb
Mt. - dominant trend is $55^{\circ}NW/70SE$

but biotite-bearing dark black
gneiss but across the fault
"line" & the, deep, most of the
way they follow the N.E. - these
could be finely deformed

metamorphosed dykes! - but some
of the bands are very thin (2"-6")
& carry bar or separated by
bands of massive G-Q-F felsic
rock. Truly some way

- some units as $150^{\circ}NW/15E$

The bridge road as cut by
upside & no ~~cross~~ but
the road grade into

B-O-F permeable remains
in the ~~road~~ ~~cut~~ ~~location~~
which is bc O^oM

(~~concrete~~ ~~permeable~~ also exist.)

X-cut hole is > 20 ft deep

X 1 ft thick, follows

X-cutting bridge gully (prob. is
replaced place of it).

Monday 1st June - 1960

Road in ~~direction~~ ~~east~~ ~~west~~ -
- ~~bridge~~ ~~cut~~ ~~road~~ - ~~at~~
radio. We left ~~to~~ ~~go~~ ~~down~~
to ~~the~~ ~~cut~~ ~~at~~ ~~the~~ ~~bottom~~
13 cases of ~~the~~ ~~rock~~ ~~at~~ ~~the~~ ~~cut~~ &
(~~road~~ ~~cut~~ ~~at~~ ~~the~~ ~~bottom~~ ~~of~~ ~~the~~ ~~cut~~)
also from sleep.

Start breakfast ⁰⁹³⁰ then walk ~~to~~ ~~the~~ ~~cut~~
Stomp 114 to ~~the~~ ~~cut~~ ~~at~~ ~~the~~ ~~bottom~~ PK ~~at~~ ~~the~~ ~~bottom~~
Hour, Harrier ~~at~~ ~~the~~ ~~cut~~ ~~at~~ ~~the~~ ~~bottom~~ Cook, Knackey,
& ~~at~~ ~~the~~ ~~cut~~ ~~at~~ ~~the~~ ~~bottom~~ 145, 58, & 60 in paper in
summit cairn. Travel not a

biotite green band & found
intriguing pattern giving ~~low~~
confused foliation, locally. -



- see above for
comments. Fantastic
weather continued but
low cloud come in from
sea & flowed slowly
up to Taylor Glaciers
all afternoon, rising
to Hays Pk & to cover
Cape Bruce, but leaving
us in sunshine so far
- tops of clouds abt 800'.

Back to tent at 1500

& had a rope to make up for
lost sheep, lost few night w.
early snow. Snow is completely
alpine, hard & icy in morning
wet & slippery in afternoon
Ae some pyramids, 50 or 50

in sight at the rocky, & a number of
Herring Gulls (Great Petrels) & one ? Wilson's
petrel (black back, white belly, white
bar on the wing & tail) follow
us round. We had only seen
one or two same petrels in the last
few days, & Pat has had some
Crows on, but only in 2 localities
on the Mt. Marked absence of petrel
eggs. ? In trying to inland
to avoid skua, a ledge just like
the one seen, in a - characteristic?

in glissading then heard again
at 2130 - & I was out for
over an hour in shirt trowsers &
boots - no hat, no gloves - &
goggles. Some sitting on the rocks in
the sun. Fewer clouds ~~the~~
low stratus has been lying over
the sea & in the glacier valleys &
hollows in the ice, advancing &
retreating, but we had been in bright
sun all day. Open water now
begins just off Kidson I, & a
large pool is opening of a permits N. of
U.I.

biotite green band & found
intriguing pattern giving too
confused foliation, usually. -

70

~~-----~~ - see above for
comments. Fantastic
weather continued but
low cloud come in from
sea & flowed slowly
up to Taylor Glacier
all afternoon, viz
to Hays Pk & to camp
site.

T 13 age det. sample
from camp site is 65280115.

Bob's 22nd birthday to-day. He
cooked a hot class dinner, potatoes, ~~the~~
bread & chocolate biscuits, & a couple
of pots of tea - in fact

After dinner we walked on the
nearly rock & collected 8 different
mosses & lichens for Big Edson. They
are really blossoming in profusion now
& when you look at them, they are
everywhere, colored as to grey and
& light green moss & algae in
the wet areas. Had a clean
in glistening. Then heard again
at 2130 - & I was out for
over an hour in short trousers &
boots - no hat, no gloves &
goggles, even sitting on the rocks in
the sun. Puddles, clouds ~~low~~
low stratus, but heard lying over
the sea & in the glacier valleys &
hollows in the ice, advancing &
retreating, but we had been in bright
sun all day. Open water now
beginning just off Kidson I., & a
large pod is opening of a few miles N. of
Uti I.

Alpha

Papa

Bravo

Quebec

Charlie

ROMEO

Delta

Sierra

Echo

~~Today~~ango

~~Foxtroty~~

Uniform

GOLF

Victor

HOTEL

WHISKY

Indian

X-ray

JULIET

YANKEE

Kilo

r. Zulu

LIMA

Mike

November

Oscar

A . . -
 B - . . .
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