

ANT/TIN/02

NGEY

CHARLES

MOUNTAINS

1971

0051

INDEX

Page

Subject

1

Camping Gear

23

Photos & Maps

4

Chester Point

5

Mr. Hall, Mr. Ross (Logan's)

6-12

Air Gun 20 ft

13-14

Schmidt's 20 ft

29

Mr. Lanyon, Mr. Meredith

46

N. 4500 rocks

47

Mr. Collins

48

Trestle rocks, Elso Platform
Mr. McCaskey

Granite Ridge 31171

10130

4610 ft

Thicket 200

Low 2000 ft

900

4200 ft

	1.	2.	3
Billy Can. 3	✓	✓	✓
Plates 2	✓	✓	✓
Cups 2	✓	✓	✓
Dishes 2	✓	✓	✓
K.N.T.S 2	✓	Spa L2	✓
Kitchen 1	✓	✓	✓
Matches 2 Lg Pkt.	✓ 1	✓	✓
Small Funnel	✓	✓	✓
Meta tabs 2 per	✓ 1	✓	✓
Frying Pan 1	✓	✓	✓
Fuel Jcan 2	✓	✓	✓
Tin opener 1	✓	✓	✓
Brush Whisk	✓	✓	✓
Brush Soft	✓	✓	✓
Ration Packs 2	✓	✓	✓
Toilet Roll 3	✓	✓	✓
Paper Roll 2	✓	✓	✓
Primus 1	✓	✓	✓
Ice Axes 2	✓	✓	✓
Primus Reps Kit	✓	✓	✓
Tent Repair Kit	✓	✓	✓
Wine Wool	✓	✓	✓
Mop	✓	✓	✓

MAPS

A. BEAVER LAKE C, D

B. CROWN MASSIF C, D.
MT HICKS B.

C. MT HICKS B
FISHER MASSIF A
~~BEAVER LAKE C, D~~

D. CROWN MASSIF A, B
BEAVER LAKE A.

PHOTOS. A MT BUNT

PHOTOS.

A. Mt Hollingshead Crown P 60

Mt Afflick

Mt Tooth

Mt Bunt

Mt Butterworth

Mt McGregor

Mt Gimsley

Mt Abbt

Hall Ntk

McLean Ridge

Baseline Ntk

Francey Hill

Murray Dome

Marston Ridge

Saxton Ridge

Thomson Massif

White Massif

Radok Lake

McLean Ridge

Silvery Ridge

McLean Ridge

Probably visited by Crown

Probably visited by Crown

Probably visited by Crown

Probably visited by Crown

Probably visited by Crown

Crown P. 61

Probably visited by Crown

visited by Crown

visited by Crown

visited by Crown

See Bell's

Glacier

Photo

Area A

Goodall Ridge

Mayman Ntk

Mt Beck

Brookings Luss Ridge

AREA B

CROWN
MASSIF E

MT FORECATT

CROWN

MT BROWN COOPER

MT MEMPHEN

MT BENSHUR CROWN, GRANGER

HUSKEY DOME

MT. KIZAKI

MT DOWIE

MT HOLLINGSHEAD - CROWN P. 60

GORMAN CRAGS

WALL PEAK

SCANLON PEAK

LENSON PEAK

SIMON RIDGE

MT THOMAS

MT HICKS

CHAPMAN NTK

NTKS SOUTH OF MT HICKS

CROWN
MASSIF
D.

Cross section

Mainly steep dipping metaseds
and Gneiss striking E-W
into Charnockite along southern
Thrust. Photos taken at Charnockite
Charnockite - Gneiss contact,

Spers Charnockite

Hard Gneiss

Meta Sed

All 4900 M.P.

1000 3000
1000 3000

Arrested 1500

1500 1500
1500 1500

1500

1500

1500

1500

1500

+20°F (1) 1000 MC

1st May Photo 8053

Acid Gneisses with Brown weather
Qtz Felsp Bi Gneiss. Telsit - Pegmatite
Bands with Dark vein like intrusions
Cross cutting Gneiss & Pegmatite
Photos taken on Ground & from
air. No sign of intrusives in
moraine. Specimens of Acid, Basic Gneiss
& Ordinary Gneiss + 2 Lichens

1st May 1951. [unclear] [unclear]
[unclear] [unclear] [unclear] [unclear]
[unclear] [unclear]

1st May 1951. [unclear] [unclear] [unclear]
[unclear] [unclear] [unclear] [unclear]
[unclear] [unclear]

1st May 1951. [unclear] [unclear] [unclear]
[unclear] [unclear] [unclear] [unclear]
[unclear] [unclear] [unclear] [unclear]

Photos taken on Nth of [unclear] [unclear] [unclear]
[unclear] [unclear] [unclear] [unclear]

Almanac Nrk Th 14 Jan 7128/0305

Very soft pink rock found in
Muscine. Some darker colored
Oolite. Very soft
generally, & Sulna pink colour

On ridge black & white bands

iron slag ridge and dip

White bands Qtz fclsp Black fclsp

Black fclsp Qtz fclsp

Qtz fclsp

Iron ground

Spec. site T 1

7128-0301 Iron fclsp T 2

7128-0302 Photo Iron crossing ^{Photo} _{7128/5/24}

Up slope rocks made of iron

iron slag ridge and dip

and light folding on the slope

Rock types similar but more

303 basic hornstone - iron ground

seen with a line to the

like quartz.

Photo taken of slope on ridge
 with chert Ho with Photo 5/27/25

Photo 5/24 showing gneiss masses
 mass cutting band of possible
 folding in back ground base

7:30⁴ Part can seen ~~occasionally~~ in
 among the gneisses They appear
 rather porous with the rocks and
 are cut by the primary beds
 Sp. 1-5

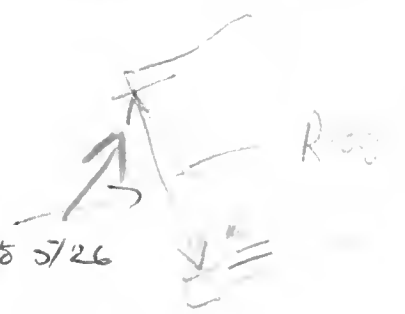


Photo 5/26

A ridge strike
 of rock some
 some (see above)

Cap site

Horizontal

colored Ho - Gneiss Base in the
 Ho/Bi Ho/Bi Ho/Bi Ho/Bi Ho/Bi
 Ho/Bi Ho/Bi Ho/Bi Ho/Bi Ho/Bi

Ho/Bi Ho/Bi Ho/Bi Ho/Bi Ho/Bi
 Ho/Bi Ho/Bi Ho/Bi Ho/Bi Ho/Bi
 Ho/Bi Ho/Bi Ho/Bi Ho/Bi Ho/Bi
 Ho/Bi Ho/Bi Ho/Bi Ho/Bi Ho/Bi

Photo 5/26 - 115 5/24

Collected at [unclear] [unclear]

2' [unclear] [unclear] [unclear]

T6-T7

note 7A

Specimens at Dark Hill [unclear] [unclear]
taken T7A-T8-T9

(7/28.0300)

3' [unclear] [unclear] T 90

Table [unclear] [unclear] [unclear]
[unclear] [unclear] at Garnet [unclear] [unclear]
rock of which [unclear] [unclear] [unclear]
Possible [unclear] [unclear] [unclear] [unclear]
was found [unclear] [unclear] [unclear] [unclear]
[unclear] [unclear] [unclear] [unclear]

[unclear] T 12. Uncertain whether
or not B in place but collected
for interest.

Friday 15th January 1971

North End of Armanini Nbk.

Granite Qtz Felsp Gneisses alternating with
Hbl - Felsp Gneiss generally
lightly foliated and ~~cut by~~ near
vertical Dips smec. about E-W
Horizontal Hbl - Qtz Felsp Dykes,
cut across these foliated beds,
in themselves have pyroxene
like selvages.

Photo taken at South face
of the dyke showing horizontal dyke
cutting across general bedding,
it emphasized the nature
of granitic gneiss that stands out
from the more basic gneiss.

Spec	T13	Granitic Gneiss	27
	T14	Dyke rock	Prime of camp

On North face side of Nunatak
a good fold nose was seen
and the highly foliated nature

of the rocks formerly ~~was~~ suspected
was continued. A photograph
was taken and shown to the
usual plane. (27)

Also the parts of the rock near
were to dykes. ~~was~~ some
basic gneiss. (28)

Generally the acid and basic gneisses
were in separate and distinct outcrops
but some hybrid types were seen.
Specimen T15

Specimen T16 is of an acid
gneiss type

III On the North side of the
side of the Nematite the pattern
of Acid and Basic gneisses cut
by sub-irregular dykes was
continued,

Specimens T17 ~~these~~ collected from
a Calcite vein outcrop on North
facing side of mountain. Rocks
include ~~green~~ rich type containing
Diopside and Red (Calcite rich?) Garnet.
Also a Calcite rich type with
Green Diopside and Red Garnet.
Concludes that the rocks are probably
metamorphosed sediments

Photo 29.
TS of camp

Saturday 16th Western Ntk of Armanini
Group

Strike about E-W Hybrid type
gneisses originally basalt but with
felsic lower bands and augen
are intruded by orange coloured dykes
of hbl Qtz felsp rock with Qtz
B. Felsp pegmatites intruding the
dykes possibly in late stage
of activity. Gneisses also include
some purely granitic gneisses →
(B. - Qtz Felsp) as in rest of Ntk →

Gneisses very intensely folded along
 themselves and some fault lines
 or movement lines were observed.
 Also evidence of movement along
 lines of dyke intrusion. Development
 of Ob Felsp Angstr not uncommon
 near T18 where spec T18 was
 collected and T19 is a development
 in one of the pegmatites intruding
 the dykes in the area of T18
 Photos taken of folding a top (31)
 west facing face (32, 33). Armani
 Ntk evidence for movement along
 dyke line, Fault line. Introduct Assist
 Snow patterns. (34) (35)

Specimens (36) T. 18 Gneiss with
 basic bands & Ob feldsp bands
 T19 Pegmatite.

Photo	5/71/30	Movement along dyke
	31	Small fold here
	32	Banded gneiss in white
	33	"
	34	Small shear

Section 11

Photo taken of pink and black
migmatites that outcrop lightly folded
almost horizontally on the side
peak (view to the west)

The migmatites are irregular,
but approximately conformably
intruded by whitish pink highly
weathered coarse Bi-Qtz feldsp
dykes. Many rocks show good
foliation structures and lineations but
as usual outcrop is not good
and in situ rocks rare. The
dip of the schistosity may but strike of
fold hinges is approx as shown
and axes dip to N approx

Peak 2 Outcrops of Acid and
basic migmatite (quartz) with
massive pink intrusions of
Qtz Bi Feldsp Dykes structure in

places pegmatitic other places
about granite has Pink
Feldspar. Crystals developed in
some dense granites and a zone
complex is intensely folded
into very sharp almost steep
line contortions ~~with~~ Generally,
recumbent folds with fold axes
striking NW and approximately
horizontal axial planes but
picture greatly complicated
by thrusts - up to 20ft wide -
intrusions of granitic dykes
which are generally coarse
grained Bi- like perhaps in places
Pegmatitic while some outcrops
show that Pegmatite activity
later than general dyke
intrusion but not much so
for the two - pegmatite and
non pegmatitic have different
boundaries where there is
contact. Numerous photos
taken of pegmatite type

folds into the fold noses
 in which in places have
 a thin basic part within
 contact with the
 primary dark hbl⁵ gneiss
 base of the migmatite complex.

Post dyke faulting
 indicated by fault gouges
 in which serpentine like to
 gouge rock is found and
 host gouges form deep channels
 in the migmatite complex

3 spots collected

T20 Spine of upper part

B1 G12 2 T(1)s 1 part

(10) (1) (10) - ground rock

T21 Spine of lower part

B1 G12 2 T(1)s 1 part

(10) (1) (10) - ground rock

T22 Rock of base

B1 G12 2 T(1)s 1 part

(10) (1) (10) - ground rock

T 23 In case of ...
green

T 24 ...
with 3 ... (2 ...)
only

T 25 Another type of ...
...
...
T 26 ...
Note
...
Shelf ...

T 26 ...
...
B. ...

T 26 ...
24 with ...
... of ...

Nanatah at Camp

N	East End	Strike	005	Dip 30° E
S	End	Strike	030	Dip 15° N.E.

Generally dark grayish, fine-grained, micaceous with large dark talaspans developed in the same manner that are intersected by dykes (B. Q. Talp) that are low in number and show degeneration westward. Dip is 15° to 30°. Strike and dip are in the same direction. Some of the talaspans are irregular but disjunctive due to the intrusion.

at the end of line on the
map. T 27.

Schmidt - Sierra Nevada No. 11

Aluminous Amphiboles

with Pegmatitic dykes (Bi, Cu, Fe, Pb)
intruding into the granite 6/24

taken at various locations showing
differences in alteration
intensity. Specimen of magnetite
in magnetite rock. T28-29

Fig. 10

SW Face



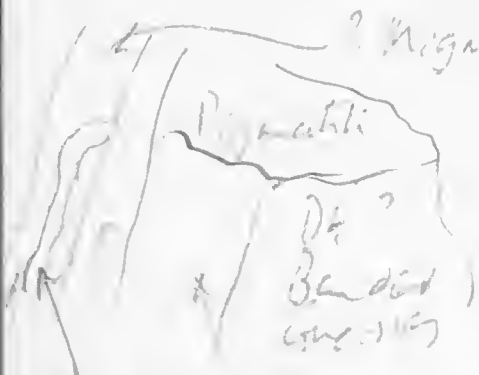
Slates at contact probably parallel
to fold axis but a bit
lower in alteration

Photo of same area

Sierra Nevada 6/25

Area 5 No good exposures
 but rock B. Or Felspar gneiss
 with pink pegmatite interlayers
 and mica

No. Glasser. Top not accessible
 but photos take of column bands
 on N.E. face



Sketch of col
 bands in Glasser

Dt Banded gneiss

possibly in the

Dt Banded gneiss
 (possibly in the)

no definite evidence

possible but Xenoliths in column

aligned with column bands, in hillside

On way down hill Glasser

Large blocks of acidic dyke type
 rock seen with inclusion of

Water ... to ... the ...
... presence ...
... with ...
... the ...

~~You ... has ...~~
...
...
...
...
...
...

Spec collector 6/30 → Photo taken, T30

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

Bi - City ...
Spec collector 6/31 → Photo taken T31

Hi ...
...
...
...
...
...
...

6/32

and the Gnt B. Qtz feldsp Gneiss
seems to have inclusions of
basic gneiss in it randomly, or rather
suggesting that Gneiss was metamorphosed
Gneiss on either side may have
just more acid & more magmatic.
It also includes basic gneiss
parts and xenoliths. Specimen collected
in this magmatic rock.

The biotite dyke cuts
across the dark ^{pink} Gnt B. Qtz feldsp
Gneiss and the Gneiss itself has
a strange - almost the same
color as the Biotite in places.
B - Gnt. See also T32
T33

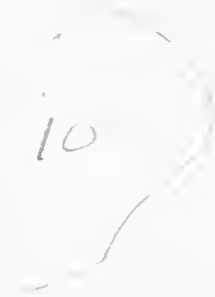
6/33 Photo taken of N.E. face of Gneiss
from the Southeast Side of it

T 34 (2 spec.) ? Silimanite gneiss

T 35 Basic Gneiss type
possible with Silimanite
but Hbl. Qtz feldsp Gneiss

Peak No. 6

Dark basic gabbro intruded
by white pink Crst Qtz Felsic
granite & Pergranite. Basic gabbro
is present almost everywhere and
in most places there are talus
boulders & lenses. Spinel
taken at pink-brown coloured
Hol. Qtz Felsic (pink) crystals which
is probably showing conversion at
advanced stage. T40



70 AS 6

6000
10000



Peak 1

Two mylonitic gneisses
with and without developed
linear foliation. In the latter
is a thin layer of quartz
Tolp. gneiss. Gneisses in layers
thickened layers of unmetamorphosed
basic gneiss. Gneiss contains
no dark streaks etc. observed

Peak 2

Central part mylonitic
with some porphyroclasts, also contains
acid dikes in places
through the base of mylonite
through the peak Transition from
Basic Gneiss to banded gneiss
→ Mylonitic cleavage seen

Photo 6/34

Peak 3

Sill mantle rich in
zirconium gneiss Mylonitic gneiss
acutely folded mylonitic type
folios. In contact in sequence
pegmatitic type. Tolp. axes show

Photo 15

Dark basic gneiss, show
various stages of alteration
to Pink-brown Porphyritic

B. Q12 same gneiss. Columnar
or rock for 1' interval from the
other pinkish intermediate of section
at end in place. Regmatic
and dykes cross cut and interleave
with the gneiss giving the
appearance of a complex.

Band of quartz exposed to top
of section but there are many
local outcrops to the

T56-37-38 3'

Show conversion series basic
gneiss - Porphyritic Hbl - Q12 Telsip
Gneiss (Telsip porphyroblastic).

Photo 6/35

Hand

Various types of granites
by 2 granitic to migmatite
gneisses of Grade. A. intruded
by pink Bi. Qtz 2 feldspar (B & C)
Dykes, & pegmatites.

White of original base
as in 2. pink in places but
very much contrast of granitic
& pegmatite.

Some migmatite See with
Barn

Pegmatite all have 2 feldspar.
In 1. pink granite now known
to be migmatite. 2. pink granite
now known to be granite. 3. all
are blue. 4. all are blue granite.
5. pink granite - 5. pink granite
pegmatite.

T41 Basalt ...
...
... SA ...
... ..

T42 Degradate with Bi- $4\frac{1}{2}$ 250
including ...

T43

T44
pink

Co-ord. 2100300
397900

18-12

Black basic ground &
black & white paper granules
intercalated by massive pinkish
weathering of a volcanic rock
rock Bi: ? Hbl O_2 Fe^{2+} Fe^{3+}
granular quartz coarse grained
that stand out sharply in
among the granites

granites generally not very
abundant except very close to interface
an general absence of pink
phenocrysts in the dark granites
is very

Looking back at peak 11
pink colouring of main zone
of peak 11 Fe^{2+} Fe^{3+} Fe^{2+}
a white colouring going north
a. the S.W facing face
Peak taken $7/2$ & $7/3$

Specimen 501-100

T45 Basic ground with gully

T46 Basic ground

T47 E. of gully (10' strip)

T48 Striped mounds with fragments

T49 Fine brown ground, possibly
level with fragments

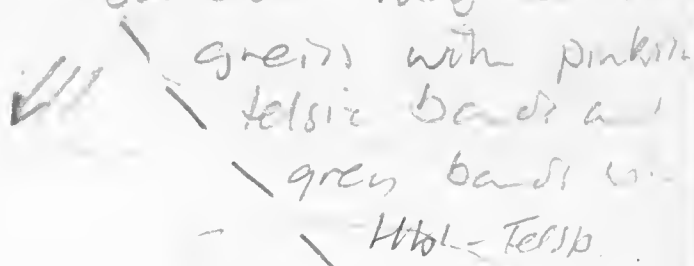
See photo 7/4.

Schm. Her. Frk

Basic Gneiss intrusion
by B - W. Tels dyke & bath.

marginalised by thin Strick
approx E-W. No large Pink
felspars seen in brief visit

SPEC T50 Banded magnetite



Map of Mt. Lanyon

Area

No Good

Expos

Mt Lanya Dips on W
Face to N

Colour Banding streaks about
E-W but not very good

On East side moraine an marked
on map is bevelled glacial surface
Good colour banding seen on
East face at higher west end
of mountain Photo taken

No good exposure seen. No
handings made

Mt Meredith

N edge has good

exposures

East end - fill between
glaciers S & E of Mt Meredith
with very broken ice

Bevelled ice ledge on S.E

See possibly fault line

South face Mt. ...
long blue well ...
... to land ...
... Mr. ...
... apparently regularly banded
metamorphic outcrop on S. face
Not possible Crap on top

Walk in etc along top of mountain
on Sunday afternoon.

Basal probably amphibolite
...
...
contact with the ...

In many places ...
... are silica
+ quartz conglomeratic rocks.
Shows ...
outcrop of the rock uncertain.

Specimen T51 Collected from
Recent. like conglomerate
? Is this still a thin-uritic
or quite well bedded surface
covered by a glacial - remnant
of previously existing sediments
No other evidence of glacial

1. Interbedded with Metasediments
and conglomerates that look almost
secondary. (Interbedded with
extensively metamorphosed
of basal rocks.

Specimens. T52
Other specimens
of Quartz collected in place
Sedimentary rock consisting
of regular thin.

Dip along Mt. Meru is
to vary slightly in direction
but has much regular contact
with rock. On return walk

numerous reddish in color and
labeled p. 118. The same was

Spec T 53 - [unclear] - [unclear]
Structure and [unclear] of
[unclear]

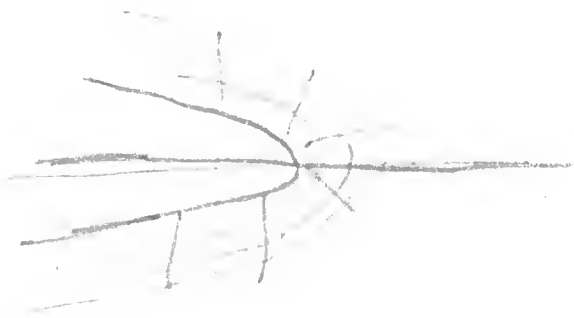
Monday 15 Feb

W. End of Mt Meredith

In [unclear] [unclear] [unclear] [unclear]
[unclear] [unclear] [unclear] [unclear] [unclear]
[unclear] [unclear] [unclear] [unclear] [unclear] [unclear]
also some folding structure
suggestive of [unclear] [unclear] [unclear]
folds

Faces on S.W. end of
[unclear] [unclear] [unclear] in basic
[unclear] that are [unclear] [unclear]
indicated by [unclear] [unclear] B. G. [unclear]
[unclear] [unclear] [unclear] [unclear]

Folding [unclear] [unclear] [unclear]
[unclear] of Mt Meredith [unclear]



... also of ... rock
... beds

Fold axes near horizontal
but dip slightly to West.

Fold axes directions (Magnetic)

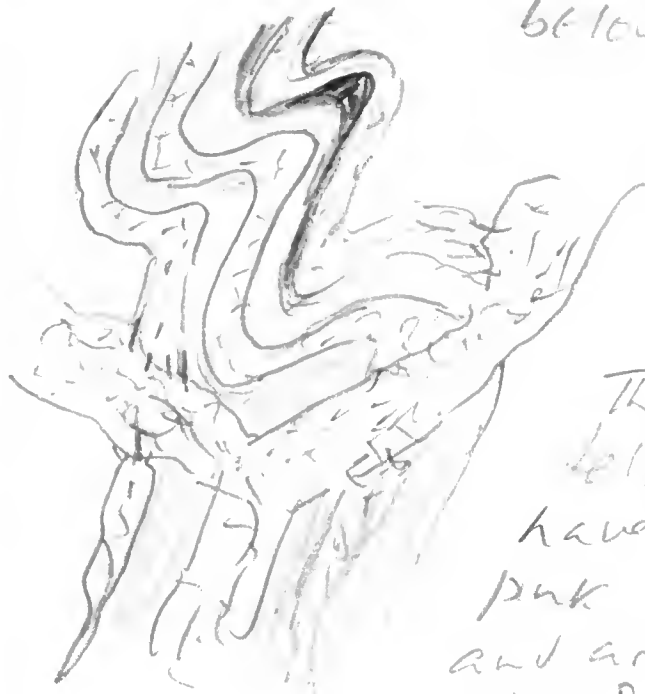
- 282
- 300
- 282
- 270

Fold limbs all dip
to N. Some almost
flat almost horizontal

At crest and near ...
axial planes & beds ...
folds can be ...
dip almost constant, 45° to striking
292

Most of Acid veins appear
perpendicular to ...
Here are acid veins and
bands ... with the
and interleave with the beds

not contact generally; and
 have surface contacts with
 fabric dykes that cut across
 the structures. Some are
 covered at a distance but
 fairly certain. See illustration
 below.



This shows that
 felsic bands
 have a lightish
 pink coloration
 and are mainly
 at B-52 Falls

with Scapolite in
 some specimens. - T 54. (3)
 One of the specimens probably
 resembles the same specimen

In among the best of the
particularity was told more than
one hour of basic material that
the [unclear] and had in [unclear]

T 55

Some [unclear] [unclear] [unclear]

[unclear] [unclear] [unclear]

[unclear] [unclear] [unclear]

T 56

T57 Gnt B1 Q12 Felipe G. [unclear]
(2 pages)

^{felsic} ~~Tran~~ is a second type of
dyke weathering pink brown that
cuts across all the granites of
the Bi. Or. Folio dykes that
are contemporaneous with
the folding. Spets T58 are
of this rock which strikes approx
N and dips west at about 60°
This would appear to be a later

→ intrusion and thus such
dykes were located

Rock has greened and quite
well jointed & foliated. Generally,
uniform in composition it shows
no signs of the assemblage of
the other rock types seen
in the other areas

Conclusions

Mt. Mendocino

1. 3.

Dip 45° N

White 285 (???) (???) Approx
and 150 cones
Fishes (Masson?)

White foliated coarse grained
Qtz Feldspar rock with long streaks
of ? mica (?? Biotite) and black
bands (possibly due to bedding
of main foliation) of Biotite - Garnet
segregation. Color is light grey
and clear

Specs T 59 to 61

Near east end blackish base
probably dolomite. Spalling
Spec T 62 Distinctive
with hammer. Columnar
jointing. 15 m thickness

Close by are also all Masson
in the area in Acid
B-62 Feldspar granites (Not in
spec. 285-286)

~~Spec. 161~~

Spec. 162

Outcrop of white quartz-silica
concretionary type rock found
like at Sandstam type rock
in low outcrops near it. Possible
that these are related

Even sst rock could be in

Do

Green sst rock possibly basic
glauconitic str. Spec. collected ~~at~~

concretionary white rock

Some are collected earlier
in the Nevada

Photo taken Strike along mountain
Dip 10° S

Green sst rocks later found away
among intrusive types and
probably correlated with the

likewise Brown stained 5st lids
 rock

Specs collected both types

T 63 Brown P. 6

T 64 Red P. 6

with light bands (see 1)
 very strong lineation (to
 the fold axis)
 Fold axis strikes about 300° (E)
 (along the length of the Mountain
 and the axes are intersected by
 acid dykes (white weathering)
 that appear to be almost
 contemporaneous with the folding,
 in that they do not substantially
 alter the quality ~~of~~ when in
 contact with them. None the less
 the acid dykes contain folded
 lumps of quartz and are therefore
 post folding at least a little.

Most of the granitic dykes intruding
 the fold are foliated - sometimes
 with bands of biotite emphasizing
 the foliation. The foliation runs
 up parallel to the fold axis.

- * 765 Spgr collected granitic rock
- * 766 (Spgr) Basic Gneiss

foliated and incised ...
incised ... folding, Spec T67

Other ... measured ...
30' - 40' in length of the
... and ... E
... type of folding,
? later ... than ...
is ... of ...

* Specimen ... intrusive
... boulder (massive)
T67 / T68 Another ...

... down ...
... of ...
... with ...
... similar
to T58.

* Spec collected T70

* Also specimen of white
Sst looking rock outcrop near, T71

T72 Hbl, Qtz Felsp. weathers

T73 Porphyritic Basaltic rock.

Granitic rock type notes at
very prolific in moraine. Brown
round weathering boulders

S₁ Felsth

1st Outcrop - slightly foliated

F_g Hbl - Bi - Qtz Felsp Granitic
type rock. Common in moraine
weathers brown color. Possibly
hill talus but difficult to see.

2nd White weathers well foliated
Bi - Qtz Qtz Felsp (Green). Bi - Qtz
in blebs || to foliation.

Foliation vertical

Strike || to long axis of mt.

Speckled tubercle
 the greenish and more
 the brown greenish
 the 3-4 inch
 tubercle

Also possible second lot of
 but did not ^{see} good contacts
 tubercle

Spec. collector T 75. Speckled tubercle
 T 76 Unspeckled

Speckled tubercle
 Tubercle
 Regularly irregularly
 about 1" to
 3" thick

Outcrop of ...
quartz ...

Photo taken of contact between
... (Basic gneiss)
... T80

... T82

Outcrop band - Photo of Gnt. B.
... streaks and pods
... parallel to ...
... 62° towards ...

Dip ... at 34°

Acc. (2015) 10/11 ...
 ... to ...
 ...
 ...
 ...
 ...

...
 ...
 ...
 ...
 ...
 ...
 ...
 ...
 ...
 ...
 ...

At No. Well ...
 ...
 ...
 ...



Basal Sillimanite gneiss seen T89
 at NW end of Glacier basin
 also at East end of Southern Cir-
 cular. Under surface.

Sillimanite gneiss is indicated
 by foliated gneiss of ...
 band.

Acid intrusives appear to grade
 from banded light to dark
 to foliated intrusives. The
 spots to banded intrusives
 side branches to central-Ortho-Feld
 grains. The foliation is quite
 distinct but quite abundant
 from that in the acid intrusives
 with B-Gnt blocks that are
 intrusives invade. However the
 similarity in composition of
 the acid intrusives that have
 mobilized.

Spots Banded acid intrusive	T 74
Spotted Foliated intrusive (2)	T 75
Foliated intrusive (2)	T 76
Gr. 3:40 ^{or Feldsp} acid intrusive with banded	T 77
Gr. 6:5 Feldsp Gr. (2)	T 78
Subvolcanic Gr. (1)	T 79
Gr. 3:40 Gr. 3:40 Feldsp Gr. (1)	T 80
Calc Silicate rocks (2)	T 81

T 82

At NW corner of Black
basin very interesting face
photographed by telephoto lens
from Newham rim of basin
Turns out to be Gneiss

- Here, Sillimanite, Basic Gneisses
intruded by the acidic dykes mentioned
above. Also basic gneiss as noted
on East end of Mt. Moreau.

Specimen T 83

Photo from NW side of
basin to show foliation

Also photo of same area
looking along rim of basin
and showing gneiss

1 Specimen of Gneiss - Folio Gneiss
with the foliation T 84

T 71
T 72

Very like Goodspeed Nikes roads
R.I.T. 14-1-74

T 85.
a handful from
have
been

T 86-89
sediments
Altaic
table
Altaic
ground
the
and

T 90
the possible

Granite under Green
generally along length of all
cut for the same to see

Specs T90 Granite

92 Green

93 Green

Will see S.E. to appear

to rest on dirt, striped ice not
taken as previously thought

...
 ...
 ...
 ...
 That are mainly ...
 Dip 60° N of ...
 ...
 ...
 ...
 ...
 ...
 ...
 ...
 ...
 ...
 ...
 ...
 ...

- T98 Granite band & basic gneiss
- T99 Banded Calc Gneiss showing folds
- T100 Banded Calc Gneiss showing folds
- T101 Well foliated Calc Gneiss
- T102 Massive Calc Gneiss

N. 1000

Very fine grained amphibolite
and basic gneiss. The
amphibolite is a fine grained
material which in places gives
a matrix granitic appearance
by recrystallization process.

Terrain very irregular,
spotted.

Southern part - 10000 ft. deep

- | | |
|-------|--------------------------|
| T 103 | Dark Amphib. Gneiss |
| T 104 | Banded Acid Basic Gneiss |
| T 105 | Foliated Granite |

10. 1951

(massive granite with some
pegs and enclaves, sinkers,
about 300m (along ridge)
is invaded by black diabase

T94

Granite characteristic

T95 coarse grained

T95 Bast Granite

T96 Fine grained

T97 Characteristic Granite

Well known in the area
with some variations in color. Good
but generally homogeneous
Slight reddish & yellowish
to white. Sub horizontal
to slightly curved.

(Now Else Platform)

Massive blocky - somewhat
angular. In places
bearing quartzite with a ph. bedded
base. Unconformity with grey white
Dip. Deformable. Cracks.

Reddish pt. Moraine covered
Sandstone outcrop. Six clusters

Wedge Massif. Good size specimen
on NE corner of Charnockite
at S.W. Extension in section
of quartzite by granite

dikes sub parallel to gneiss
breaching. These shall give
Some evidence

Mr McCarty

Brown weathering gneiss
intruded by white granite

Dike Group - 5 to 10
miles

Intruded gneiss to the west

10K... 8... 611
+10
9/10

11... 15... 4...

200... 85...

TERRY
BOB

Hand	1.25
...	\$ 35
...	10.90
...	5.22
Wester ...	4.20
...	.90
...	1.45
B.H.	12.60
...	...
...	...
EELOA	130
Gr Bowler	2.70
Hannover	4.70
Metals	5.20
Mt 15h	3.80
N B H	13.50
Nulla	
...	27
Per	...
Phand	...
...	50
United	48

BK Jan 1 1944
1- 600 2 3 1944
5- Copies to 1944
21st

Camping gear Dust Pan needed
Piece of wood for stove
to start with
Chop box including Kettle, Coffee Pot

In old kit has many packets

In New kit Cocoa
Beverly Regd

- Mat 10 Holes Sheet B
 200 ft. ...
 200 ft. ...
 Roll Paper ...
 Jar Vegemite
 1/2 Tea
 Chest
 4 Pine Fruit
 2 ... Juice
 3 ...
 2 Mug
 (1 gallon Kero)
 Pkg orange dust
 4 Lamb chops
 4 Steaks
 2 Pkg soap

200
1/8 scattered ^{-west} 5 15 knots Nil light +15

40 miles 77.5° 143

11. 1.40 PM C.

1/2 - 2.00 PM

12. 2.15 PM 100
13. 2.30 PM 100

14. 2.45 PM

5.123

141

2 3 10

