

ANT/BAI/01

1970

1970

RECTICA

0002

JHC BAIN

①. BMR.

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Bearings are true.

0001

{Sample}

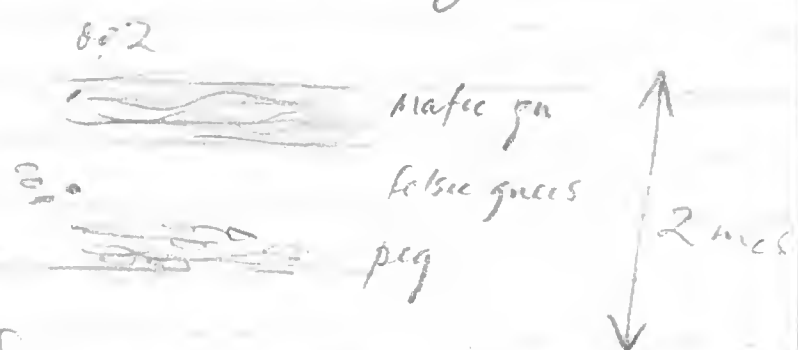
26-1-70

Bond Ridge?

Banding / structure

$\sim 70^{\circ} S / 052^{\circ} T$

Sample of the more felsic gneiss, which also the commonest type in 80° rock, with some wafle bands of px-hbl. plag. gneiss and some pegmatoidal felsic gneiss. The bands are folded into quite tight folds. The pegmatoid contains large clots or clusters of biotite, + kfs, qtz & plag.



0002 Sample mafic gneiss

Photos 27-29 Col. 1 ent.

No. 30

Bond Ridge - further S. along ridge
0003. = (402)

Indos ~~31~~ 31-32

Folds in felsic gn.
Some bands contain 20% quartz.
See Jan for add. notes

Base 27-1-70
Alt. Mt? 10 AM ~~5480~~ 5480 ft.
Outer. MP NNE face. 5670 ft.
Base Camp 4 PM 5630.

Small outcrops on eastern side
of Moore Pyramid.

0004 Magnetite gn.

~~White top 142' Cupping S. side~~



Plunging approx 4-5° to N.

Jan has spec.

North Fork, 0005

28.1.10

Walking up eastern spur to first
bluff break at about 150' above
marine. In highly garnetiferous
gneiss. Plag, Qtz + OB_1 + OP_2 + Gnt.
Garnets up to 2-3cm across.

2/3 way up spur crossed highly
gntiferous band trending about 150'
Band is about 2-3m wide
(Sample) 0005 of this band —
may be meta basic dike as cuts
across regional strikes

Some spec contain
Sillimanite?

0006

0006 on top of bluff (Sample)

Banding $80^\circ S / 120$ (= 00411 dark band)

Gneiss — finely fine grained bi-pl. Qtz
toned gr. with large gnt porphyrobl.

Bands of light & dark material are
about 1-2cm & 1/2 - 4cm respectively
the light bands are strongly
stained with iron, in places a
purple color. The whole rock

is brown & mottled red colour
from high iron content.

gnt makes about 80% of some bands
and a min of 20% in felsic bands.

Predom mafic bands are sheared
with thin felsic veins & vice
versa.

In some areas large
quantities of large gnt porphyroblasts
obscure & almost obliterate the
small scale banding & foliation within
some of the larger bands.

Some bands appear somewhat
sheared where streaks of gnt curve
around gnts.

0007 Very faint - like 0001

one then saddle. The

is without

Banding 15-20 approx.

but blange 1000 fold.

axis plunges 60° at 190°.

See two samples: very dark

very sheared. - flakey outcrop.

0008

- Moraine - east end of
eastern spur N/W Wishart.

(Sample) of whitish rock containing
yellow, blue & green crystals, fr on
the moraine.

Alt Moore Pyr. Base Camp

31-1-70

4PM 5800'

Vicinity Carter Peak. ~ 20 mile W. of MIP.

0009 - Peak, S of Carter Peak

Alt. 6700⁺ adj to Chappuisian flglic

Outcrop of garnetiferous granite
gnciss. (red-to-white gr.)

Tecton 80S/070 due to
partial, discontin alignment of
biotite.

Some small smeared out inclusions.
or streaks of biotite rich material
at across foliation 090

Mineral: (imp - 1)

Plag. (imp - 1) to 3 or 4%

Plag. porphyroblast

Biotite small flakes - st. of

(Sample) ? ex.

0010 Sample porph. grt. gncissic
granite. ? char. stititic.

Large 3-4 cm yellowish fclsp. Some
fox! One 15 cm inclusion $\frac{1}{11}$
x 2 cm

to be sillimanite or fibrous leucophane
yellowish col. min - ? fclsp? ; it
is surrounded by gnt(px) then px(+gnt)
then ? plag and mafics.

Some pegmatoidal qtz-fels - bi-quartz
grades into this rock - probably
only a narrow 30 cm or less band
or vein.

Some vague suggestion of tight
W style folding in gneiss.

Mafics tend to be a bit
patchy

Cutcrop - typical granite - flakey
surface - explanation a rock of
coarse fels/gtz sand & gravel
rounded cinders (fels) and
flakey slabs.

Rock has not part easily along
foliation.

Photo 3. 22

0011 2nd peak. S. of location, but
1/2 mile W of 0010

Photo. + ... porphyroblastic
grt. gneiss. bi. gneiss. granite
... large rounded feldsp.

porphyroblastic

55°/060 Foliation not so pronounced
as before but otherwise the
same rock type - its continuous
along ridge from 0010.

Here there is lighter colored
beds about 10 in. wide and
more common here. Sample 0011
Feldsp. porphyroblastic layer here,
than 0009 or 0010

0012 Sample same loc.

Alt. 6780 6:20 PM

9013 Rock west of Carter Pk.

Granite gneiss as before
very weathered in near rock

foliation 080° SAMPLE

0014 Photo 5 rock face.

Down light colored band

0015 outcrop peak.

Coarse gr. brown colored
porphyroblastic gneiss (granite)
very (weathered) appears
characteristic

0016. down slope to S.

Light colored (whitish) felsic
band trend $075-250$ about
10 meters wide (see photo 5)

Bi-gel (gr) gneiss

SAMPLE

Alt 6750.

7.05 PM

Slope is covered with loose rock fragments
not attached to rock.

Unable to approach outcrops
to measure thickness of gneiss
due to precipice

0017 -

1st point west, Pt
west

Several types of mass outcrops
outcrops consist entirely of
felschists, massive or foliated
or banded.

Rock type: SAMPLES

0017 - fine grained grey colored
qtz fels gnt px cherts
granite cuts.

0018 - essentially as for 0017
but as grain size increases
rock is tan. Some mafic
outcrops (blackish) seen
in outcrops (blackish) seen
colored bands 1-2cm wide
with plagioclase qtz

This grain, shortly appearance
and parallel to the
banding:

2019 - streaked or banded,
grained almost pegmatoid
gneiss. W_2 - fcl - bi - px
+ opaque 5% . Large porphy.
garnet.

Has vague foliation of each g
grains into:

2020 Very cng. gneiss, (m)

2020 - foliation about 120°
at the hot zone.
(NW - SE)

? mineralisation opaque?

0021 NE NE of Carter Peak

Landed in corine saddle

Rock types very similar to last locality. 0017-20.

Sunday available to 70° W / 120° - 110°

Small faults 20° N / 110°

X

specimen

X - 0021
maple 915 - pts. gn (+ gut)

42 - pts. 201
Heim

0022 Sample gn. close to by

0023 Sample gn. showing light
concentric foliation west
end of NTK.

0024 near 0023 - maple band

~~0021~~ Many small folds - like
0023 very light

These fossils listed with pag.
of 0021-22

West end very similar to
E. ridge NW Wickham
grt. v. abn. 1mm - 1cm.

Sealed numerous tiny apertures
Dip 70° S / 110. Strong parting
// similar to A.

Some fossils, etc. sides
also as above.

CROWN
MASSIF

B
↓

0025 - NW end NW Bakker

highest point

SAMPLE! Gneiss as before

Parting / foliation = 70 S / 110

Int. grt. fels. for grt. coarse gr.
= med. & fine gr. with
= grt. porphyroblast

Very weathered here

0026

Ellyard Ridge high pt.

SAMPLE. gnt. gls. Jct. pegmatite
fine to med grain

isophylloitic garnets

foliated, 80° S 1090°

Thinly bedded. V. similar

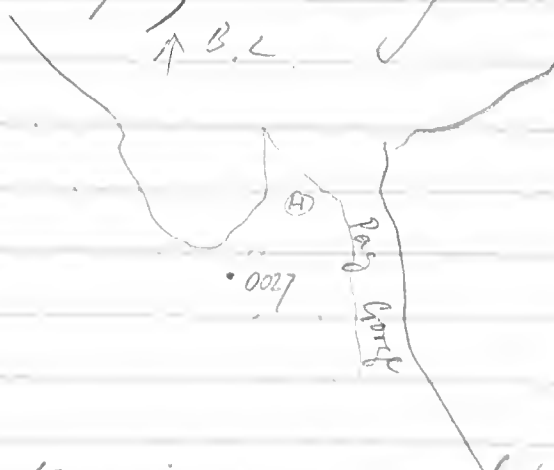
Balmer & Carter. outcrop.

All near Bryant. map 5000

0027

Bearers Lake 1-2-70

West side of entrance to Rigodonia
Gorge. Small low spit - walking N.
Alt - 120 ft.



0027 SAMPLE

Platy, flaky dirty micaceous sandst.
Ripple marks, minute low angle
cross beds. Sst appears calcareous & is
purplish brown to gray in colour

Part easily // bedding giving v. flakey
outcrop. Under- and overlain
by very weathered coal or coaly
sebs.

Contains quite a bit of iron in
small particles - may be just stain
from detrital biotite.

SAMPLE

0028 About 20 metres stratigraph
— above 0027

Up to here interbedded coal &
reddish micaceous sst cross bedded
on small scale (0027)

Here 2 metre cliff forming bed
of cross bedded coarse bluff coloured
argose overlies coal.

Coals dip up 25° NE / 125

They are graded coarse at
base to fine sst on top over
dist of about 5-15 cm

Max grain size about 5mm,
Cavernous weathering

0029 SAMPLE Same loc a few
inches away

Gr. bed some mica w/ stained
grains

2 Photos taken, cast. Nos 12-13
R. 12

0030 West Side Beaver L

Coarse gr. buff coloured arkose
v. sim. to 0029.

8 1/2 - jets lithifrag. Some Fe stain
? cross bedding $15^{\circ}N/045$ is
fairly constant! over 30 sq ft
and 6' thick. $10^{\circ}N/030$

On headland strata dips $10^{\circ}E/140$
They are interbedded coal and
arkose sandstone.

At least 6 coal beds visible tho.
They are only 30 cm or less a ~~unit~~
thickness

10



0031 - Northernmost of 4 small
sandstone bluffs 7-8 metres high
Massive sst. in bed 1-2 metres
thick.

Coarse arkose sst cross bedded
in places

Top mine of 50 of v. kaolinitic

18

arkose, med-to fine grain with
various amounts of iron stain
cement. In places, iron to
grains. Fine iron to
and rich with of red brown
color. In some places, the cement
the buff colored sands in
certain places, iron rich in color,
flattened to size of bent corn
and speckles in fine to
to be clearly visible or cross-bedded
- the surface of bedding planes
is slightly laminated. Appears
similar to SST seen to be S.
but here appears to resemble
the flagstone bench sandstone
esp. in regards iron concretions
high feldspar content.

SAMPLES: 0031 White arkose $\frac{1}{2}$ way
up cliff - massive concretion type
0032. Fine rich SST, about 1 inch thick
near top of cliff

0033 SST at top of cliff
Containing hematite grain
& iron rich nodules.

0034 Fe SST

0035 Fe/mica SST.

§ Top of cliffs 5-10 E / 170°

0036 Coaly bed in fossils sandstone
This is interbedded w
coarse to fine Fe SST

0037 V. coarse f.c. arkose.

0038 Outcrops of coal
as small 'cistern' in entrance
to valley, Post, N.Y., Granger V.
5-10 E/160 approx.

At least 8 metres of coal
although this is interbedded
with some coaly shale and
siltstone & sand micaceous
sandstone

There is about 4 metres of
coal with about 30 cm of grey
micaceous shale near the
middle.

Photo 2⁷³ col. 2.

looking N. - height of top of
2nd seam from top about 2.5 metres
top is about 2.3 metres.

Photo 4

Much plant material
in the shale micaceous & coal
but not good for collecting

A band about 1/2 metres from
top of island is about 50%
sulphur & fused looking coal.
its about 15 cm thick

There is much yellowish substa-
nce on all the coal around here
(0039 sample of above)

0040 Well-indurated fine gr.
dirty grt sst from below coal
layers

0041 Fe. st. coarse arkose
overlying coal

0042 Light col - little arkose
together with overlies 041

0041 contains many Fe nodules



NW side, Amery Cr.
0043

Photo 5. Col. 2. Looking NW
SAMPLE coarse gr. Charnockite
diploblastic

Grid ref: Col. NH 10000 D
4658, 21765.

Photo 7 Col 2 - close up charnockite

Walter Massif 2-2-70

ANT130/R37/7132

Walking on bearing about 340° from
Campsite PIR PHOTO (idem M.)
out along western most north trending
ridge!

0044 100 metres S. of first saddle.

SAMPLE massive light coloured
poorly foliated Qtz-fels.-bi?px
gneiss - acid granulite.

Pinkish K-fels? and Qz make up
90% rock with mafic minerals
forming patches or spots of dimensions
10 mm x 5. x 2 mm. These clots of
mafic give the gneiss a spotted
appearance & impart a foliation
(trending 050°). The weathered
surface is stained a light brown
with darker brown specks where
the mafic patches occur.

Some parts contain less mafic
and are not dotted - their porphy

foliation is due to the rodding
of the qtz.

Hereafter called spotted and
granulitic (massive)

5045 - First mound a Sadle's 100m. N.
- from 5024. SAMPLE

Very similar rock type but
less typically spotted - more
streaked. Foliatⁿ 85 N / 085°
due // to qtz rods & streaks
of mafics, slightly more und. re.
Massive blocky outcrops, joints
giving large cubic shape blocks
No noticeable lineation

At edge of outcrop in small area
containing many streaks and
small elongated lens of mafic
gneiss - $\text{Qpx} + \text{Hbl} + \text{Plag}$ with
granular texture - base granulitic
Some suggestion of tight ~~My~~ type
Sts almost // the foliation.

P.A. 05 14 - 20

14 Looking N (020), along ridge

15 Double peak U shaped notch,
showing massive poorly foliated
acid granite forming peaks
and interband acid / mafic
granite in area below notch.
The latter rocks have been tightly
folded and the 2 peaks may
represent the limbs of a fold.
The notch may have resulted
from the more easily weathered
mafic granites. Dip 220°

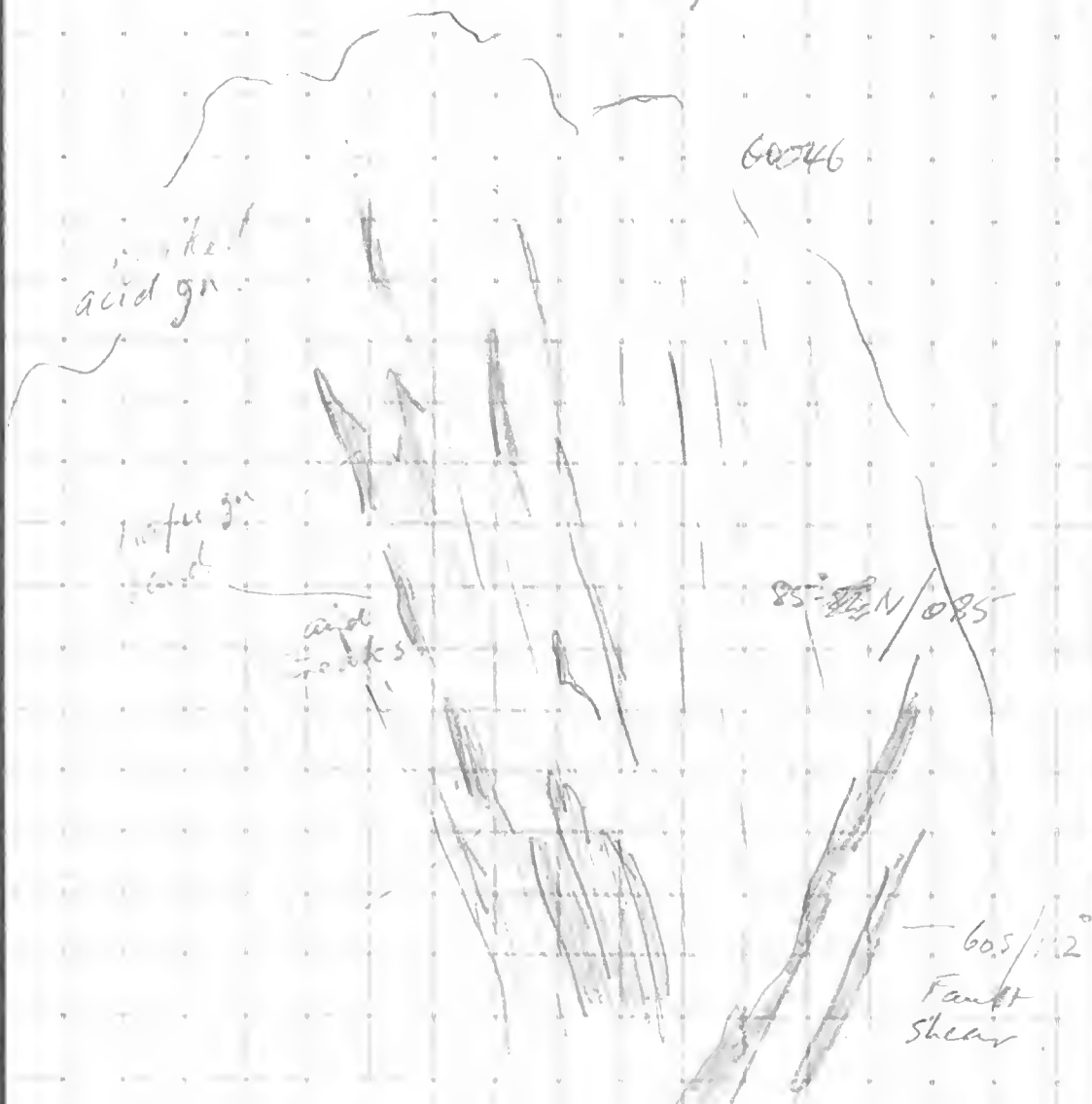
16 Simple loc 0045

17-18 Shows sheared mafic gneiss
in contact about 5-10 metres
north of 0045

19 As above - smaller view.
Both views to the east.

20 View to SW of mafic gneiss showing
shear banding, about 11.

Cross Sect. looking west



Some streaky v. dark v. fine grained bands cutting the mass of granitic bands; they appear to be shear zones.

0046 about 5-10 m² N

1 metre wide band of mafic
gneiss - granulite class,
Southern contact is and gneiss covered
to south in rock debris but other
parts of outcrop are to basic
granulite grades into acid gneiss
specks and patches

It is cut by a shear zone, trend
60°S / 112° (see photos 15-18)

Most pronounced shear results
in v hard flinty black rock rather
like hornfels STANZIC 0046.

Basic granulite Sample 0047
from about 100 m N of shear

Mineral banding / vague foliation N side
of fault in Basic granulite is to:
70°N / 060-070° (Photo 20)

6045 50 metres N of last point

Largely mafic fr. then acid
gneiss (some massive lotted
variably some poorly foliated)
containing up to 60% mafic
inclusions

Photos 20-25 illustrate this
rock type

Inclusions aligned 060° //

banding & foliation

Inclusions elongate generally,
2-15 cm wide up to a metre
or two in length. Many small
ones 5×10 cm.

Inclusions consist of basic
granulite.

Rock varies from acid granulite
massive containing basic granulite
inclusions to a mixed rock
of intermediate composition
but variable with varying
amounts of mafic material
of varying grain size

Some more small shear zones
similar to those described before
plus small faults with less
than 1 metre displacement. Trend
much as before but varying
between 112-150°

Some small areas of pegmatitic
gneiss of irregular shape with
gneiss (only a few cm across)

Most of the inclusions have
clear sharp boundaries but
some appear diffuse. The
amount of mafic material
in the host and gneiss
increases near concentrations
of mafic material.

206 contains a small mafic
inclusions, band up to several
hundred metres, with thin acid
sand largely of quartz.

SAMPLES:

9048 Acid gneiss host-

0049 Mafic mafic acid gneiss
in some sheared band
of mafic material

0050 Gneiss interbedded with
bands of mafic rich material
and bands of felsic material

0051 Mafic band of interbedded
gneiss

0052 Basic granulite (mafic
inclusion)

0053 away - 160' ad
about 1000

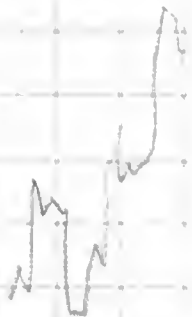
Large, well foliated
1/2 in. wide (1/2 x 1/2)
dark coloured containing
band of ^{quartz} ~~quartz~~ ^{quartz} ~~quartz~~ ^{quartz} ~~quartz~~
white fels. ^{quartz} ~~quartz~~ ^{quartz} ~~quartz~~ ^{quartz} ~~quartz~~ ^{quartz} ~~quartz~~
Lamination developed // axial
Plane due to ^{quartz} ~~quartz~~ ^{quartz} ~~quartz~~ ^{quartz} ~~quartz~~ ^{quartz} ~~quartz~~
to 125° Fold plunges steeply
(see map) S.E.

Smaller light folds can be
seen in the host gneiss but
of smaller scale. They are
indicated by small light
coloured bands about 1 cm
wide.

Photos 200M 26-25 refer. P. 13

Sample host rock 0055
of lens and 0054

1.



upper band

basic
granulate

felsic band

3-cm

2.



upper band

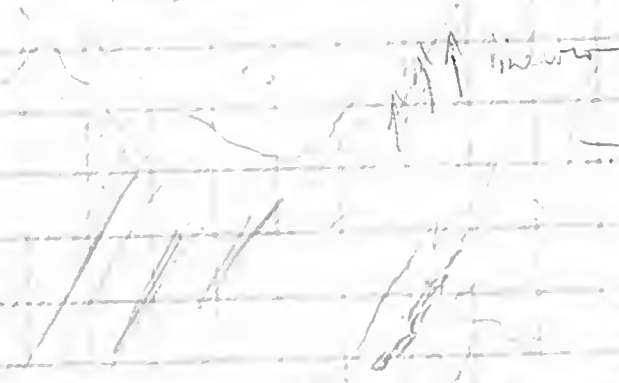
basic granulate

me

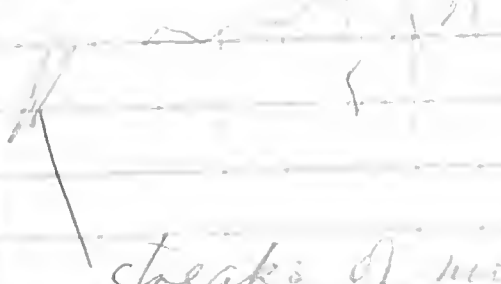
(AX)

Coarse gr. sandst.
lighter colored inter gr.

fine gr.
mafic inter med
gr



lenses
sandst.
& streaks



mafic
mostly blk. - & generally
low in center

streaks of more mafic material

0055 grades in stream at
rather mafic intermed gneiss
near foot of ...
0055 + 51
but generally ...
with ...
texture + higher ...

Continuing on eastward. 3-2-70

0057 First high point

dark intermed to mafic gneiss
20-35% mafics well foliated

150-70 40° V / 015

conspicuous growth px qb fcls
(+ hbl + bi)

Also ... irregular shaped
small feldspar bands & veins
(see above fig)

1966

leucog.

0057

v. n. sp.

Shoaked
Major
band of
intermed. g.

005

(AX)

10 cm



0058 High pt marked on photos
[HNT 130 R37 7132 L] John Massiff
2nd rounded hill on ridge before
sharp peak with ridge going N

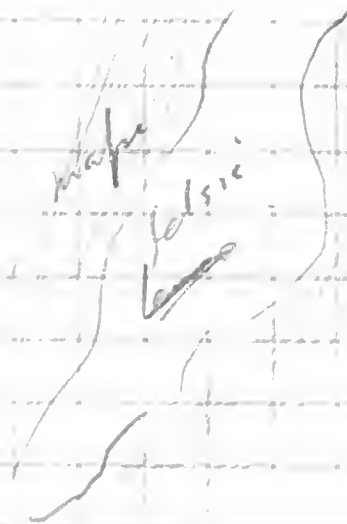
To hear three granulites varying
from acid to basic varieties of
an intermediate mafic granulite 110:111
ie. most common type: 50-60%

Dark coloured px-bearing Qtz-fels
gneiss - poorly to well foliated.
generally grading into sugary less
hard more mafic type.

b/ Next most common types together 25-40%
- Sugary basic granulite
- px + hb + plag

Massive leuc gneiss - Qtz-fels gn.
with varying amounts of mafic
Generally Qtz is rodde giving a
poor foliation. This is reinforced
in parts by rough alignment
of mafic patches, when present.
(cf massive spotted acid granulite)

Foliation / Banding generally
between 020° - 045°
with some 360° - 055°
near vent. to 45°N



The grain size varies from medium to coarse and there are some almost pegmatoid phases.

of other types:

with bluffs (grey to white)

Black sand, approximate

Bluish grey 92 feet 461 peg.

The sugary coarse granular makes up to 30% of the rock overall with large stretches of otherwise.

Relationship between rock types is somewhat obscure but 0057 appears to illustrate the general picture.

Folding, complexity of rock types, and poor outcrops make it impossible to follow changes over any reasonable distance.

0059 High pt before peak.

0059 with bands of 0060
ie Reddish Qtz-fels-pr quartz
same gr. with some
alignment of gr. red. and
finer grained Qtz-fels-pr gr.
with foliation due to pressure
Foliation - vert / 945

Massive center

0060 see above

0061 Pinkish Qtz-fels-pr quartz
- acid granite - w. foliation.
from ridge W of 0060 (ie returning to camp)
ANT130/37/7132

0062 location as for 0044

SAMPLE P&E det Photo 16
Roll 2 Col.

Photos 8-16 on saddle above
Camp
COLR 2.

0062 light buff col. acid
granulite - 1.5 m. fr.

AGE DET

0063 20 meters N. of 0062
Slightly more mafic variety
of Qtz-fels - px gran
with foliation like px
'spotted' and granular
Photo 17. close

AGE DET

0064 more north of last st.
Mafic gn. - co. base
granulite band.
rather scattered

AGE DET Photo 18. col.

small folded felsic band.

0065 3 meters further N.
Photo 19 col.

Mafic intermet gran.

Px Qtz 2 fels gn.

AGE DET

0060

ANT 30/57/8129

Polyploclastic material -
granitic gneiss - foliated Obs^o
SAMPLE

0067 more acid band 2-3 m
wide - g^{1/2} - f^{1/2} - gr
SAMPLE

0068 Basic granitic band.
SAMPLE

NH Eather

5 3 71

0069 Nth Est ridge
Foliated & banded N steep

to N/045-070

SAMPLE thin px bearing

Qtz - fels. gr. f.g.

Most common bi. type together
with

0070 v. similar gr. fels. gr.

SAMPLE

f.g. - granular texture

These rocks appear meta
sed. - ~~metas~~ sample

0071 v. f. gr. foliated bi. px.

bearing gr. fels. grains - micro
banded. Contains

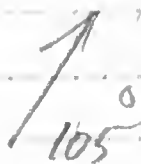
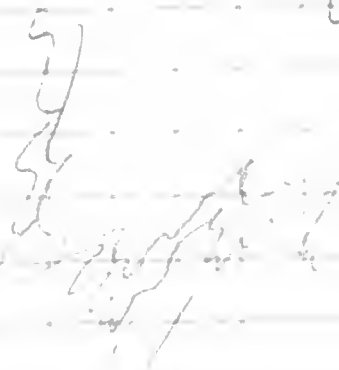
SAMPLE

0072 - more mafic than others

granular texture slightly foliated
contains bi. Qtz - fels. gr.

SAMPLE

Photo 5



0073 Sample Pyroxenite
band about 2 meters wide

0074 Sample basic granulite
a plagioclase mafics granulite
with white mineral coating

0075 Sample Pyroxenite

Photos 34-35
Sample on well folded
showing tight folding
low and garnet porphyroblasts

0076 - is out. gnt & less plagioclase
Sample

0077 - Structure Sample pyroxenite
in a fold

0078 Sample Spotted acid granulite
px. bearing in plagioclase
eg. Sample

Photos: RM 2 BW.

S. and Martin Messing

Mr. Leckie

end roll

0079 f.g. qtz fets gr + px + bi?
Sample

The mafic & acid rocks
are about equal
proportions and are
lightly folded

0080 - 0081

35 SW / 150

Cliff

10 gnt. sil qtz - fets bi gr
& milky qtz + sh + chert

More seen in ...
...
...
Complex folding

Rather sheared ...
elongate ... blast ...

McGowan

6-2-70

Imp. on gully, Merriman
Station NW McGowan E. W.S.
AH 5100A 930A

0081

ANT 92 / RAF / V8101
~~V8100A~~

S. side prom. spur

Highly contorted mixture of greenish
bi-pr-~~hbl~~ fels gneiss (green mafic gneiss)
and pinkish brown qtz-fels gneiss (c.g.)

Very acid to small 10-15 cm lenses
of qtz. The acid gneiss contains

patches of coarser, almost segregated
gneiss containing bi/pr hbl.

In places this gneiss contains streaks
& clusters of mafic minerals
giving it a spotted appearance
or a foliation.

The green mafic gneiss varies from
fine to med gr and contains many
irregular patches of coarse crystals,
segregations of one or more minerals.

42



It heaved, schistose parts, or all
felsic veins & lenses.

In some Spec. or makes up
at least 20%

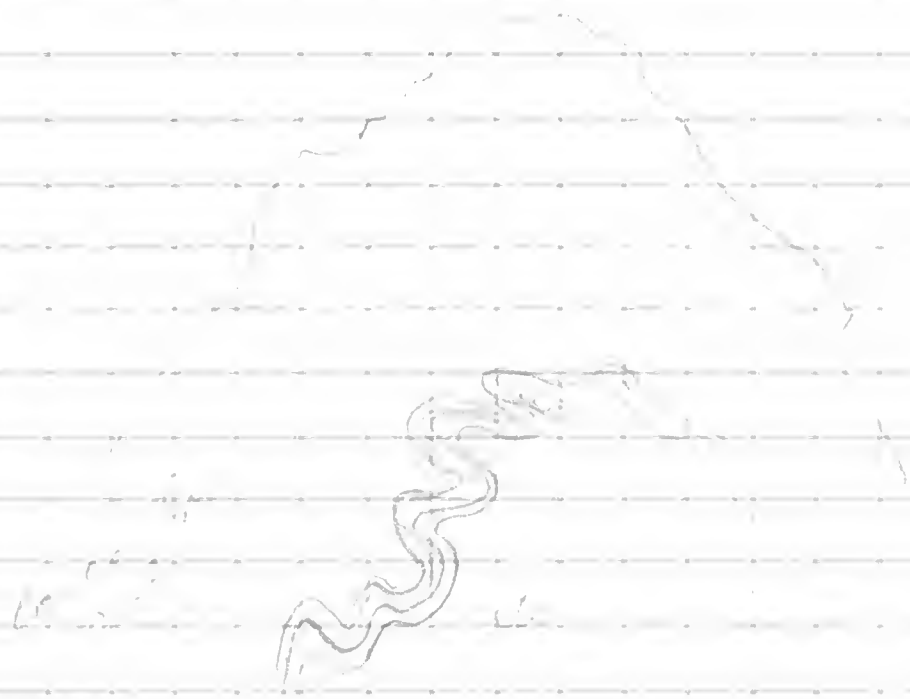
Spec 0081 is med gr mafic
gneiss.

Photos 20-21 lot R2 show
this mafic gneiss + small
golden felsic pegmatite bands

0082 - felsic gneiss. Sample
and - gr. felsic gneiss.

To the S of here, or rather, from
the corner of the moraine area
the rocks appear more ordered
with more consistent thickness of
bands. ~~sets~~ defined bands
and lighter very clear.

There is still reddish brown
and greenish black as much black
mafic gneiss as later alb
minerals with gold at all



Col photo - 1 - 11 -

Orientations & scales. fossils.
In fact a rather limited
effect result.

The fossils in contains
irreg shaped inclusions or
blocks, fossils, in the upper
part. with shales the latter
contains many names of the
fossils.

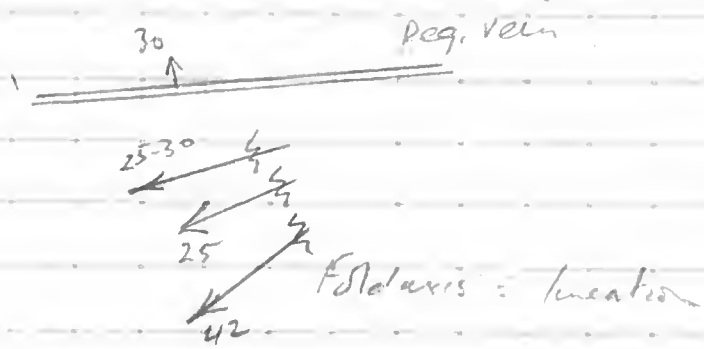
Nov 27 1914

2083 - very thin, fossils that sent
to University of Chicago for
analysis. SAMPLE

Alignment of fossils in upper
part of section in
places as really more sandy
part of the section.

Fold axis to 42 SW 250 dip
2084 - as above but less dip

Contains fossils in the part
Some less sandy, as fossils in part
of section.



Calor
Phosphate

New 100. ~~100~~ on spur as recorded

1085
partially buried
to do. to do
not get the same

1st safe for - full
...
ultra-thin ...
10

007 - not fully ...
...
are some ...

005 - ...
to ...
912 - ...
... 6 + 12"
cut ...
30° N / 15° E

...
25W/055 45

~~mostly false~~

~~mostly false~~

~~magnatolus~~

Photo 3 Bar 3

Sit in 200

0089 Specimen of ...
green - false green

Contains ...
green ...
brown ...

Contains gut and ...
white ...
In plate ...
... appears ...

to Spec 0090 Structure Sample

Linear ... in fold ...
for ...
255W/255

Cut by ...
... 120 ...



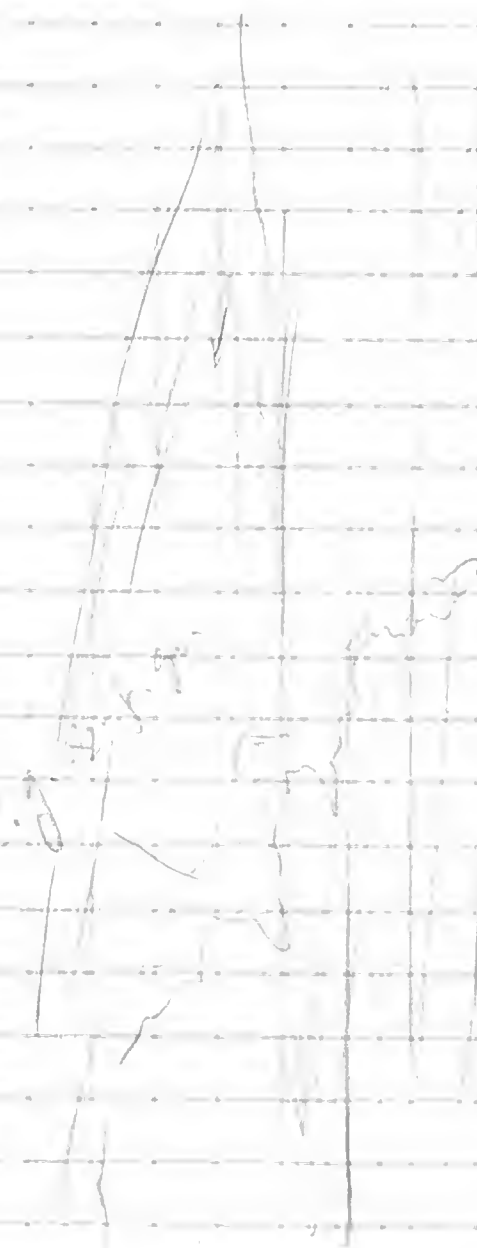
0091 N. end. Basins

Very much horizontal
yellow grass of 2-3 m. high
with some blue flowers
winds up to 30 m.

Substratum of sandstone
interbedded with greenish
textured shale
Top of the beds and top of the
ground

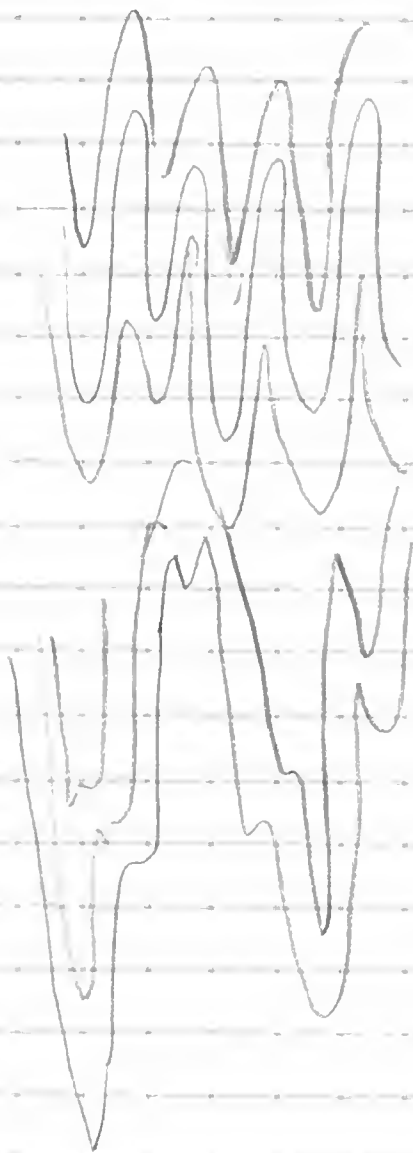
The top of the beds (about 10
ft) appear to cut the sandstone
at low angle, and the
margin of the beds is
causing slight offset of beds

Notes 80-90 ft



Group of 10
small
...

0095



SAMPLES
0094 ...
... distance ...

SAMPLE .

0094 ...
... more ...
...
...

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

0095 Small saddle - wind tunnel
at top of one slope
Rocks as noted at previous loc.
but those in the saddle and to
the S. contain up to 10% garnet
as 2.5mm porphyroclasts and
are very tightly folded into
shallow angle / similar fold,
(see opp. page - fig)

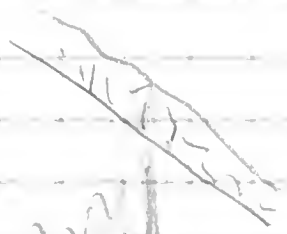
NO SAMPLE

49

Fold axes | 20-10° / 082 |

D

(2)



0082



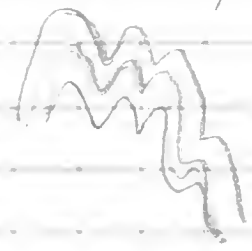
0085

(3)

(4)



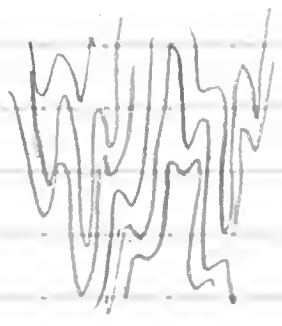
0089-90



0096

(5)

(6)



0095



0092

0096 Down slope & E side
of the bank.

Again the brown stained weathered
surface - of tightly folded rather
massive unbedded gneiss - finely
banded or streaked but not
obvious, large light & dark bands
as at 0092.

Folds tight but general not
parallel sided & more open.

Also more mixed - not -
obvious what the direction of
the sanding or foliation is.
Fold axis still about 35°W/085.

0097 At foot of slope, is the
second spur from the N on the
East side.

Very similar to 0096 but
even less homogeneous.
tending more to 81-85.

little ...
... streaky ...
...
X 11 ...

Vertical
...
Cela. Prost. 31-3
Light and dark bands of ...

Santher... 7200
between... ST corner

0098 Santher...
sandstone: 75-80° N / 100°

Sample mafic band

0099 Sample felsic band

These two rock types fairly
interminably mixed with the
mafic band more felsic
in reverse. The felsic mainly
forms 2-3' thick bands
40-50% of the thickness.
esp mafic are more elongated
in orientation, in places roughly
parallel to bands of
of coarse gr. Qtz-fels-grt gneiss
which in places is large round
felsic (or porphyry) with biotite
rounded around a garnet
porphyry. Also some little
~~etc~~ minor gnt.

~~0102~~

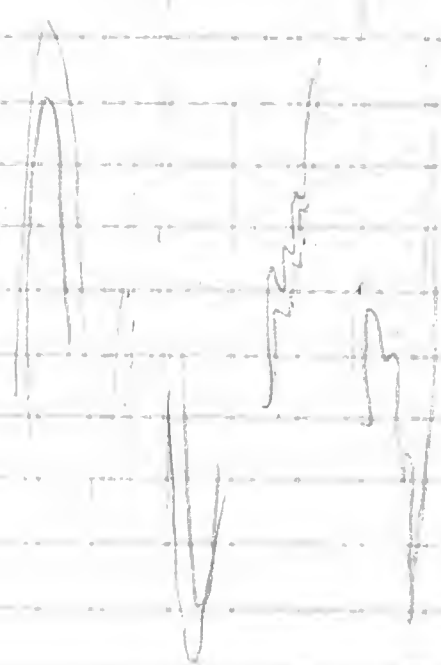
0102 - just round corner
just open
Sample - broken cross bed
locally soil, false green
715-812 - Feb with 82, 81 bands
with other sample area

0103 New road - soil
1 meter wide
1. after night

East open in of large horizontal
slope (1/2 m)

0104 Thinly bedded grey
colored quartzite - some dark
green. Alternating light & dark
beds - some calc. light
coloured gr. - Feb 82 (4 gwt)

SAMPLE: ...
Photo ...



style / 10/10 stamp // banding

The coarse grained part
contains greater in feldsp
in volume

This rock ~~contains~~ is cut by
a 30 cm pegmatite dyke
0107 SAMPLE which consists
of white feldspar gr. feld.
+ quartz & gnt.

and occurs as fine grains
the other constituents fine to
coarse generally coarse in volume
[10°N / 265]

0108 200 m. west SAMPLE

Gnt. gr. feld. in situ
tightly foliated & interbedded.
cut by v. coarse white & feld-
sp. - gnt peg. just earlier
toe far north end of 105!

Cracks in feldsp. up to 2 cm
across & blood red.

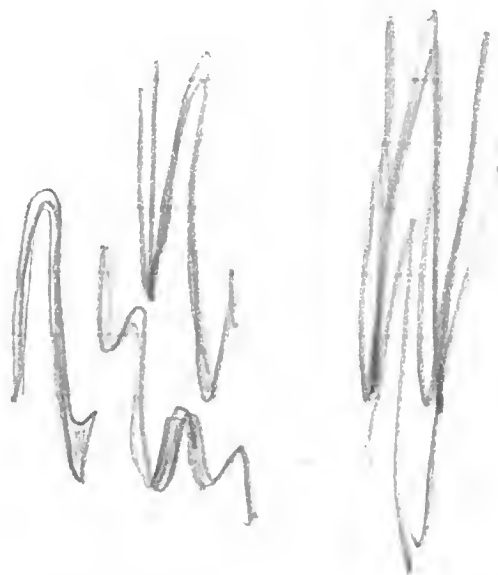
This point cut by the creamy
peg dyke (107)
[Gardner 85N / 265]

Photo to (35) P2

0109 May, similar rock types
to previous loc. Mass
enters — prominent bluffs show
tight folding in the gnt. or qtz. fols
No samples

0110 Changing to more mafic
areas — complexly folded.
irregular folds and networks
of mafic & felsic rocks. From
here to 0081 very much as at
0081. No obvious banding.

—



Mount McGrath

7-7-7

West side

Starting from shallowest part of land
scour & working N

0111 Very similar to outcrop at
(p. 42) 0081 V. of large irregular shaped
body of v. mafic gneiss - contains
a few green bits of v. plagioclase in
varying amounts

This is the green v. mafic gneiss
of Beusher.

Together with felsic gneiss with
thin bands & stringers of mafic
minerals. To the north the pattern
of folding & banding is better
defined & more pronounced
with Banding 80S/065 and fold
axes shallowly (70°) to E.

A little further on Fold axes &
haveling (80°N/085) folds 5°E/085
There is little of any sort
with clearly different light
and dark bands.

- Photo 9-10 - Migmatite gn + dyke
Small hammer scale
- 11 as above ice core scale
12. Just around corner to S.
Migmat. gn. Bull. scale.
Cold Canyon

0112 EN pt. in wind scours.

Basically felsic gneiss with mafic (bi-hbl-py) bands & streaks lightly folded into sinuous and tight magnetic, stephanoite & similar folds. Large feldspar porphyroblasts are developed in the felsic bands esp. the coarser ones, and also in some e.g. pegmatite qtz-fel-gr.

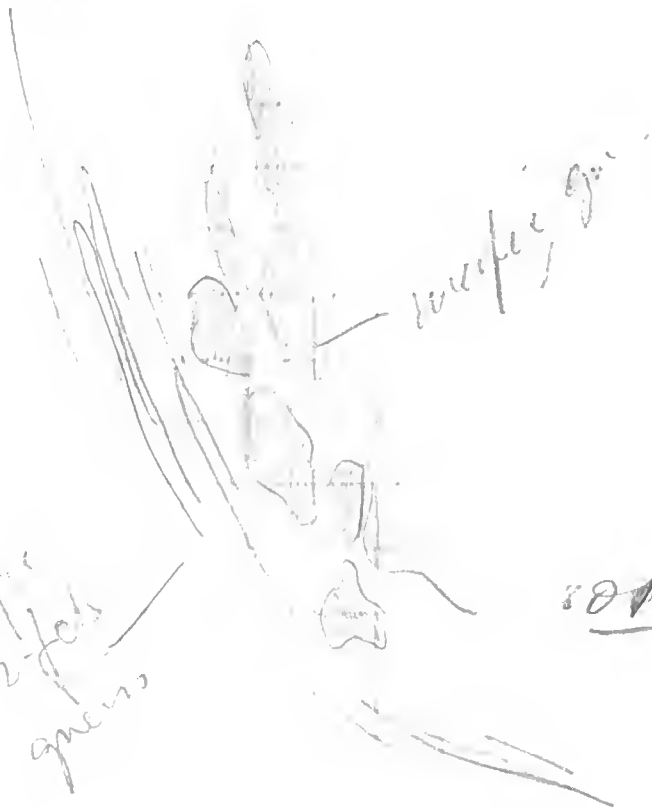
Some ^{mafic} bands contain gnt & there are some bands of gnt + bi exclusively. Small garnets are present in the felsic gneiss.

The whole is cut by a pegmatite dyke dipping 10-15° to 6 N.

This dyke (Photos 9-10-11 DW) is about 45 cm wide with finer grain top & bottom & coarse bi in central part. Right along centre is 5 cm wide shear zone of fine gr. mafics & py qtz. Pinkish colour of mafics.

0112 Sample 11 (pegmatite type typical).

map
at foot
quero



map of the

811-510 to 11108

to 0113

Sample 0113

laminated, folded ultramafic greenschists
gr. fels - bi. gnt (10%)
with small - large gr. perph
SAMPLE 113

and sample 113 - sample 113
Dip direction 80° N / 108°
Told strike 50° W / 150°

0115 starting pt. = 0111

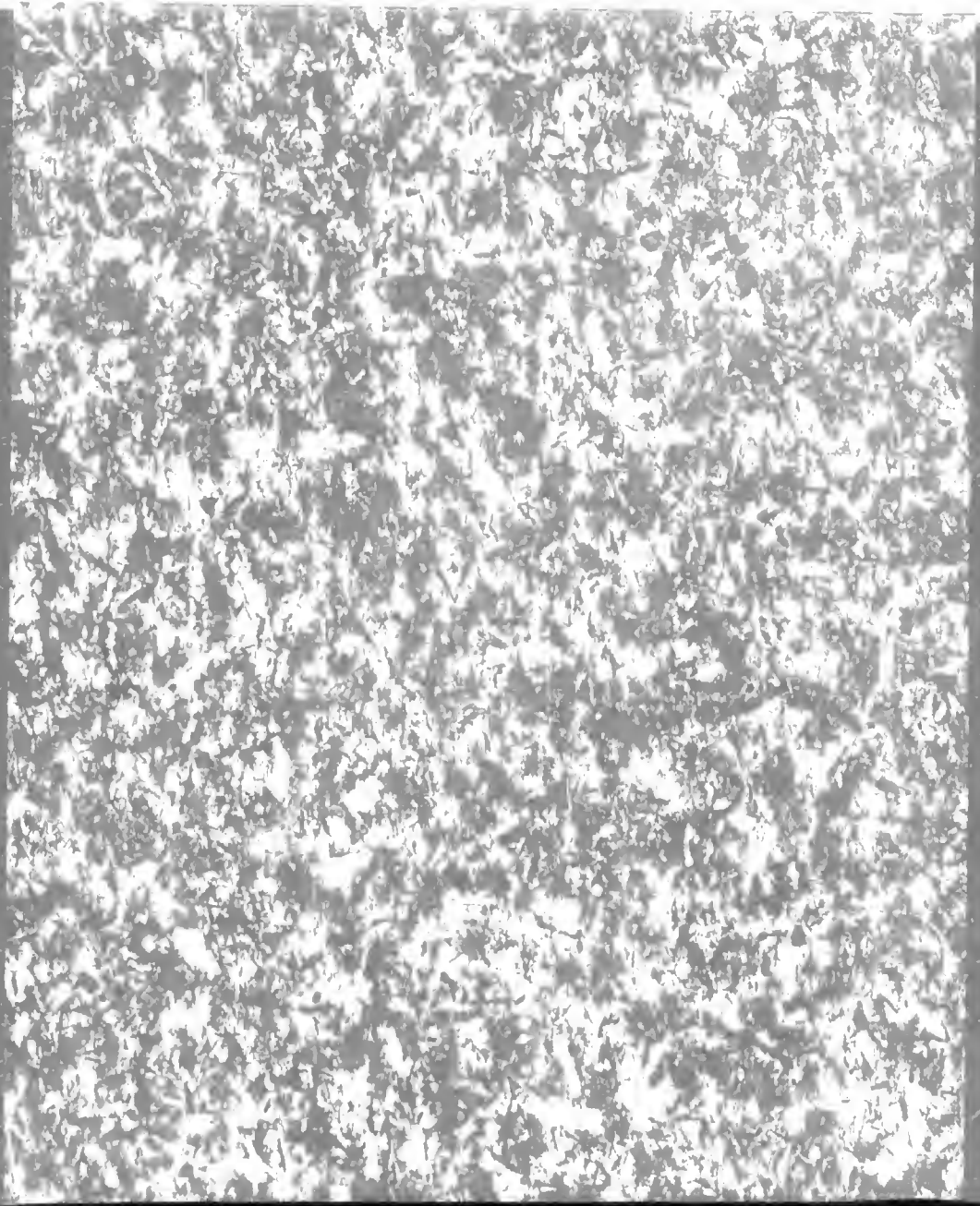
Samples 0115 = 116 - 118 of
the ultramafic greenschists
green coloured
no continuous felsic veins

0117 as if the host greenschists - 0111
gr. fels gnt

0118 see above. - u
ultramafic gr

R 2. Col. 8, 16, 17, 22, 27, 29.

R. 1 "



PLS. RETURN

BUS. MIN.

BOX 378

CANBERRA