ANT/DOD/01

0004

7128-0011 21-24
17
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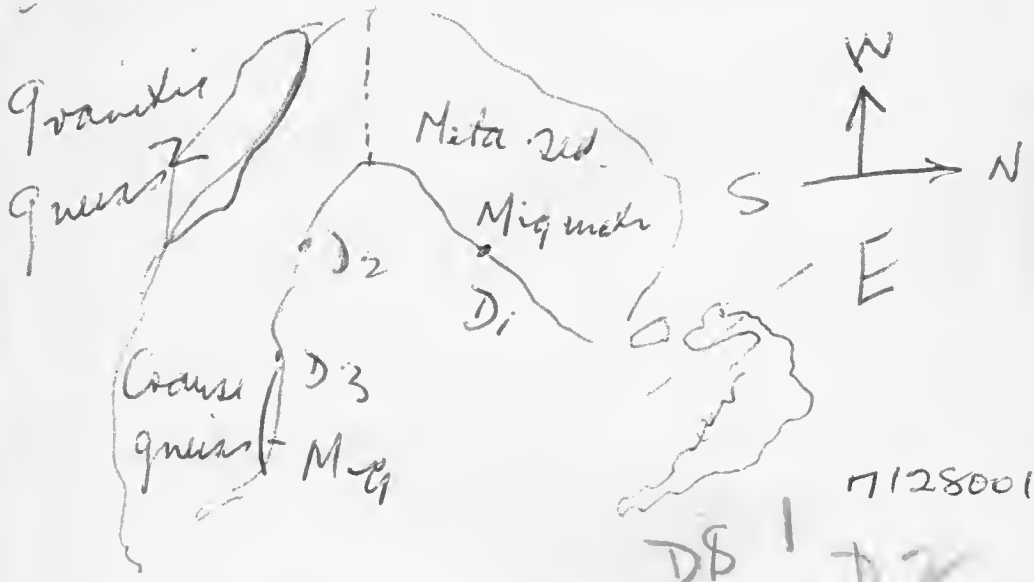
INDEX

12 Jan. 1971

Crater Massive, ~ 15 m.
from Moore Pyramid



71128001

DB 1 + 2

D1. Contorted banded gneiss 71128002
composed of dark, biotite rich
bands, felsic bands and
injected quartzo-felspathic bands
The rock is migmatitic in that
portions of both original
host rocks and intruded bands
and others [illegible].

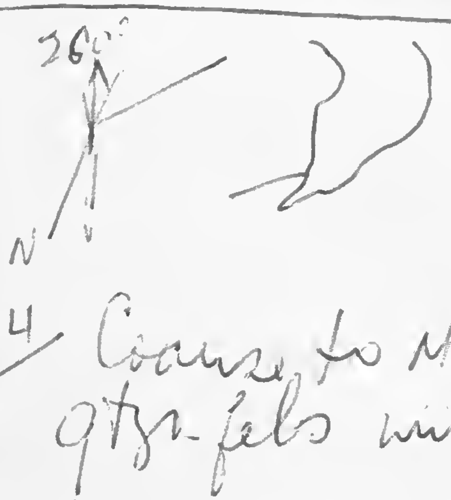
D2. Adjacent to the migmatite is a coarse textured fairly homogeneous quartzo-felspathic gneiss, with well defined foliation.

D3 blocks of massive highly porphyritic gneiss ~~[illegible]~~ with large ~~[illegible]~~ felspar crystals - of granitic gneiss?

DS3 ✓

7128003

CORRY MASSIVE



D4 Coarse to Med Gr. gneiss qtz-fels with sericite?

Numerous basic

DS4 7128004

2

7128005

DS7 ~~7128[illegible]~~

inclusions ~~xxx~~ typically
biotite rich, in places
with vermiculite alteration.
specimens taken

Strike roughly
East West.

Numerous ~~p~~ pegmatite
veins - Coarse quartzo-felsp
~~with~~ locally with magnetite.

Garnet appears to be Concentrated
in planes.

D5 712005 a
D6 712006

D5 Grey massive -
Eastern face - Pumpellyite
alternating with qtz felspar
Garnet grains -
7120025
specimens taken

D6. Mt. Kirkby

Host rock is coarse pink to orange gneissic granite gneiss with bands of amphibolite - locally containing a high percentage of epidote.
Numerous dykes of basic rock aligned NNE. fine grained.

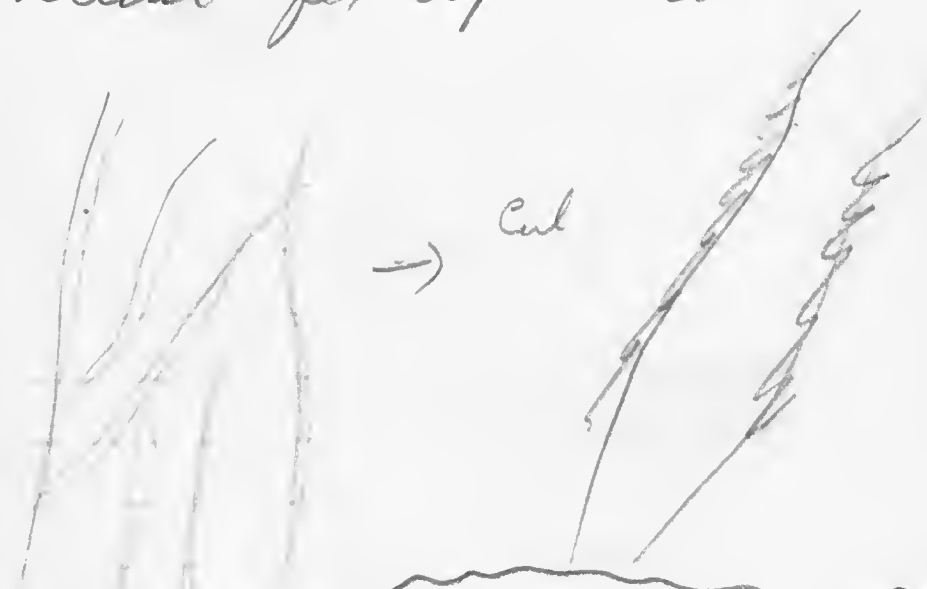
Specimen taken
D S 7 (D S 7) 7120007
Host rock
D S 8 (D S 8) 7120008

Locally the amphibolite has high epidote content

Epidote rock D S 9.

(D7) SE slopes of Mt. Cuthcliffe Peak - composed of "amphibolite" lenses in a pink quartzo-felspathic host rock

hybridization is evident at the contact — forming plag amphibolite (?) -
The host rock is cross cut by numerous feldspathic with stringers locally with feldsp veins -



Specimens Country rock Granite gneiss
DS 10 Amphibolite
DS 11 Intrusive granite rock PTO

M1280010

~~M1280009~~ M1280009

Pink - Reddish Coarse grained granitic rock. Contains the country rock Quartz feldspar gneiss and amphibolite.
The amphibolite may contain actinolite or? Sil minerals

(D8) Thomas Mountains.

Coarse textured augen gneiss. Locally the augen coarse to form pegmatites - very coarse textured. Locally too segregations of Specular hematite

Specimen taken (DS 12) 7128 0012

B Specularite rich Specimen (DS 13) 78

7128 0013

6

D10 Mt. Mercy.

1000 odd feet peak composed of hybrid rock —

host rock is a med to coarse gr. 95% felspar grains extensively recrystallized by blades now metamorphosed to amphibolite.

Locally segregation? pegmatites have formed - coarse quartz-microcline intergrowths with biotite books and an epidote.

7128 00014

Specimen of the hybrid (amp/95% felsp) DS 14

Spec of pegmatite DS 15

7128 00015

7128 00015

D11 MT GAVAGHAN

Dipping South, steeply at ± 80°.

Lineation poorly developed dipping at ± 170° ⟶ 34°

Lower slopes - amphibolite - higher, much weathered coarse textured charnockite ? — granulite gneiss: coarse brown to grey — amphibolite slightly in part. [illegible] with [illegible]

Two specimens taken -

(1) hybrid pseudo-breccia amphibolite DS16
Charnockite DS17

71280011?

PTO 71280016

8

NOTE

Mt. Graham —
on Southern side
bounded — with
amphibolite layers.

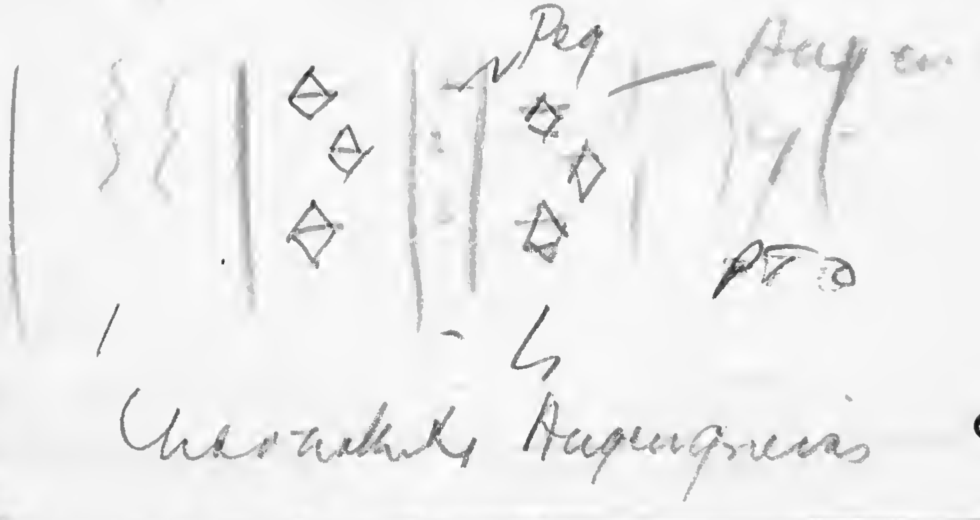
Charnockite : Coarsely crystalline brownish gneissic rock with ill defined foliation

Webster Peaks

D12 Charnockite -

with narrow pegmatite - at the contact with the pegmatite - band of larger grains

Peg - about 6"



Charnockite Augengneiss

Webster Peaks
Steeply dipping
NW & striking dipping South
Specimen of pegmatite taken
DS 18 7120018?

DB Smith Nunatak.

Two rocky hills with long chain of Nunataks.
The "East rock" is a banded, Biotite Granite feldspar gneiss ~~with~~ alternately banded with gigantic felspar Garnet gneiss. The q/f/felspar gneiss occurs both as parallel sided bands and as variable shaped patchy Garnet through out rock

or ragged discrete units.

The origin of the qtz-felspar gn is not obvious – ~~sec~~ banding margins are well defined but not "baked". They are not diffuse normally (locally in part) i.e. they are not segregation or permeation. More likely they are considered to be of metasomatic origin – introduced along the foliation of the ~~original~~ sediments. (Rare Cu staining

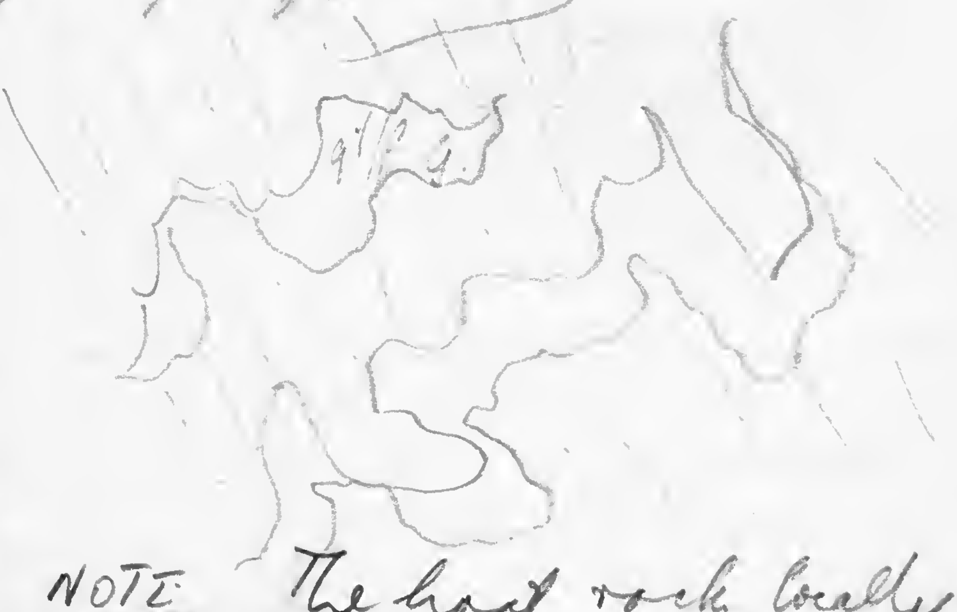
NB

owing to high wind 23/1/71 Bechervaise & Giddings Peak could not be visited

~~NOTE~~

DIGHA Belchin [illegible] Hill

Composed of quartz -
felspar - hornblende -
garnet gneiss with
later "intrusive"
dykes - veins etc of
quartz - felspar pegmatite.
Margins tend to be
fairly diffuse



NOTE The host rock locally
has an augen texture!

The rock appears to have been a semi-pelitic sediment - invaded by metasomatic solutions - & depositing along foliation planes - later distorted by regional metamorphism (incl folding etc) ;

Pfs qts felsp hnbl? green

(DS19) 7120019

qts feldspar (DS20) 7120020

Photo taken with hammer

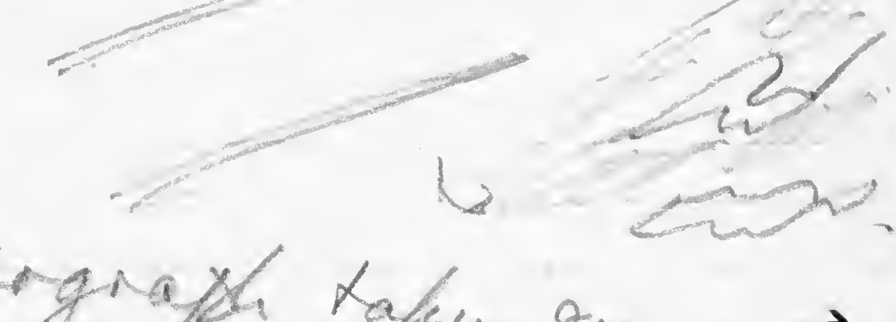
mmm

D15 Giddings Peak

Similar to D14 [illegible] – host rock of qtz/felsp/hornblende(?) – extensively invaded by qtz feldspathic garnet stringers.

i.e.,

Migmatite



Photograph taken of migmatite texture – see

D 17 Mt. Little

Banded migmatitic gneiss - fine banding indefinite, in part diffuse, patchy. Specimen of banded migmatitic gneiss taken

DS 21 71280021

Further south west, two or three (or more) pegmatitic cut amphibolitic rock 71280022

(Specimen pkg D22)

(Spec. Amphibolite D23) 71280023

15

PTD

Salt incrustation of rock sampled for serial

DS 24

D18 Mt Cory

Massive to banded
gneiss - granitic in
part - presumably
these last products of
migmatization
Massive banding
amphibolites are
have local bands of
granitic concentration.
In the Massive —
crystalline limestone
block specimen

DS 04 25 Limestone 71280026

Specimen of coarse
granitic gneiss

DS 05 26 71280027

(D19) Hill South west of Mt. Gleeson

NB B. Tingey Area

Fol.
→ Dip
67°

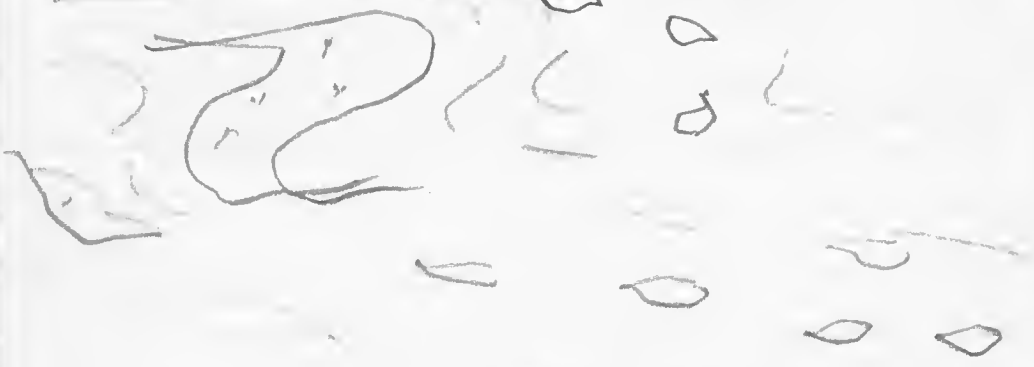
~~Biotite Hbl~~ to
Hornblende gneisses with amphibolite bands - garnetiferous

Invaded by pegmatite

- Crosscutting - to patchy form.

Typically Hbg. ca. & felspar ca / minor [illegible] are formed in the foliation plane

rather contorted -
slip folding (?)



Appears to be a
product of metamorphism.

D20 Fisher Massif

South-eastern Corner -
Comp of medium grained
homoblastic granite
- frequently with inclusions
- xenoliths of dark rock

prob. amphibolite

The granite ~~is~~ has well defined cleavage - ~~is~~ Generally gneissosity. 71280028

Specimen of granite	DS27
Specimen of xenolith	DS28

The granite forms a plateau ~~For~~

To the ~~a~~ South the terrain is shaped by glacial action - polished surfaces, deposits of till, erratics and the honeycomb effect. Most of the rocks is amphibolite - ranging from nearly pure hornblendite to plag amphibolite

71280030

~~Specimen amphibolite~~	DS29
Specimen plag amphibol	DS30

71280031

(21) 2nd Feb 1971
Mt. Willing
Southern Slope -

Pinkish pegmatites
invade dark green
grey amphibolites. The amps.
vary from coarsely
crystalline almost
pure hornblendites to
plag amphib.
The pegmatites vary -
simple to complex.
Simple one at 21 include
metallic [illegible] mineral
- [illegible]?

Specimens [illegible]
[illegible] 31 71280032

QR Co[illegible] with [illegible] ore?
1 Specimen 32 71280033
Pegmatite
1 Sp 33 71280034

(21) Whelan Nᵒ K

Massive garnet rich granite - Locally coarsely crystalline veins etc. "Ghost" areas cutting bands - well jointed.

Specimen taken 712800 35	34
Coarse sp. alt. taken	35

(22) Kottler Peaks (far west)
Similar to Mt. Strawlight
(hybrid rock - garnet feldspar qtz. invading hornblende rich

(23) Alt. 5100 at Helicopter pad
5/2/71

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(23) Long hill (HARVEY RIDGE S. END)
South western corner.
- Kill camp of
[illegible] of [illegible].
[illegible] [illegible]
[illegible] - [illegible]
[illegible]
SP [illegible] [illegible]

DS [illegible]

M1280036

22

~~[illegible]~~

(24) Crest of Hill ✓

Strike nearly west
dipping north -
this like gneiss - with
rare garnet - well
foliated

Marscane

poorly exposed through
scrubble
Extensive pegmatites
also in both [illegible]
former are.

| Sp 37 |

Mt. THOMAS

Massif (Fisher)

(25.) NNE – extension
of platform –
granite – with
inclusions of hybrid
xenoliths
Specimens taken of the
xenolith – in
hornblende(??) granite

Cp. 38

712 80038

(26) N.W Fisher Nature

Band of flaggy
amphibolite agains
granite. Area scatter
with pink granite
Specimen of amph
taken

S/O 39

7/280039

(27) Surface littered with amphibolite — blackish

Surface grey — medium

Float — extensive

Copper mineralization, 'amygdaloidal' texture indicative of basalt origin?

Specimen (flag) taken

Sp 40

Mt. Collins

N.E. end -

Pink med-gr granite
- margins are hybrid
- cut by cross cross
dykes of dolerite.

SP 41 Granite

SP 42 Hybrid

SP 43 Dolerite

Sp. 44 Stunner

Sp 45 Stunner

Sp. 46