

GE/1

25th July, 1958

MEMORANDUM

The following petrographic descriptions apply to rocks collected by Geologist H. Blissett at Rossarden:-

Pale cream and greenish gray mottled, fine grained, weathered rock.

In thin section the rock a structureless background of fine grained sericitic material, containing occasional grains of quartz up to $\frac{1}{2}$ millimetre across, upon which is superimposed a network of shards and slivers of brown glass.

The rock is a tuff.

A8. Porphyry dyke North of Aberfoyle.

Brownish gray fine grained rock with phenocrysts of quartz and felspar up to 2 mm. across. The rock is somewhat sheared.

In thin section the rock is a fine grained mosaic of quartz and sericite with euhedral and anhedral crystals of quartz and felspar. A somewhat ragged crystal of anthophyllite is also visible in the section.

A2.

Medium grained pinkish weathered rock with occasional phenocrysts from 1 millimetre to a centimetre or more of quartz, felspar and biotite.

In thin section the texture is granitic with hypidiomorphic crystals of orthoclase, oligoclase and quartz together with minor amounts of biotite, muscovite and magnetite. The felspar is fairly fresh but with some alteration to sericite, particularly of the plagioclase. Some of the quartz is irregular in that it occurs as small irregular crystals in poikilitic relation to orthoclase.

Phenocrysts of orthoclase show some microperthitic structure and enclose crystals of plagioclase.

The rock is a fine grained granite.

A10.

Black slaty rock penetrated with acicular crystals of rhomboidal section about 1 inch in length.

In thin section very fine lamination is marked by black graphitic carbon. Quartz and sericite are plentiful in fine grains and plates and brown spots indicate staining by limonite.

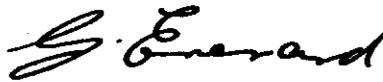
NSA

DIRECTOR OF MINES, HOBART

Chiaastolite shows as well formed crystals showing a black cross, but the mineral has been completely altered to fine flakes of sericite, often with a limonitic centre grains of quartz are also present in the edges of the altered crystals.

Very fine veins of aplitic material have been introduced along the bedding planes.

The rock is a chiaastolite slate.



(G. Everard)
MINERALOGIST AND PETROLOGIST

The Director of Mines,
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