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DIRECTOR OF MINES, HOBART

Quartz is clear and fairly free from inclusions, but felspar is invariably cloudy and often partly sericitised. The biotite is of a greenish colour and contains dark inclusions and minute zircons surrounded by pleochroic haloes.

Plagioclase is greatly exceeded by orthoclase and the plagioclase is albite. The orthoclase may contain rounded and embayed grains of quartz, of which several may extinguish simultaneously as though belonging to an originally single crystal, which has been corroded and divided. Some alteration has occurred to the rock after consolidation.

The rock is a microgranite.

A8 Porphyry (? Dyke North of Aberfoyle)

Pale gray or brownish gray fine grained rock with phenocrysts of quartz and altered felspar. Some of the phenocrysts are very irregular in outline, others show regular crystal faces, and this is so whether they are of quartz or felspar. The ground mass is not everywhere the same but shows paler streaks, and irregular patches passing gradually into the rest of the ground mass without definite boundaries.

In thin section the rock is a fine mosaic consisting of quartz grains, possibly a little felspar and a good deal of mica. The mica is a white muscovite, but in patches a faint greenish or brownish colour can be seen.

Grains of quartz up to 1 or 2 mm. across are present as irregular, somewhat rounded grains or euhedral crystals, sometimes slightly rounded at corners. Occasional larger crystals of muscovite, also occur, containing minute zircons with pleochroic haloes.

The rock is a muscovite hornfels.

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