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Description of rock samples from Parkers Ford No. 1 drill hole

by G. B. Everard

Two rock specimens cored from Parkers Ford No. 1 drill hole at 549–551' have been examined.

In number 1 the hand specimen is a medium-grained greenish-grey rock consisting of pale rectangular and lath-like crystals of feldspar, and dark ferromagnesian crystals in a fine-grained greyish feldspathic matrix.

In thin section the texture is subophitic, consisting of pale pinkish-brown crystals of pyroxene partly enclosing lath-like crystals of labradorite, interspersed in a background of smaller interlocking masses of labradorite in which minute crystals and aggregates of ilmenite and magnetite are freely disseminated. Fine-grained patches of mesostasis are common, containing minute needles of apatite and granophyric intergrowths of quartz and feldspar.

The pyroxene is pigeonite with an optic axial angle of 0° to 45° . It shows twinning, a light schiller and many curved fractures. There is some alteration to a greenish-brown hornblende.

The rock is a dolerite.

Number 2 is a greyish-pink coloured medium to fine-grained rock with small rods and patches of organic material, and grains up to 1–2 mm across and fine veinlets of quartz.

In thin section the specimen is a mass of interlocking grains of yellowish carbonate and veins and patches of chalcedonic silica. Shredded material of possibly organic origin has been altered to limonite and marcasite. Very fine grained material of clay origin renders the rock semi opaque.

The rock is a thermally altered marl.

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