

Descriptions of rocks received on behalf of the Forestry Commission

by G. B. Everard

The following are descriptions of rocks received from geologist V. M. Threader on behalf of the Forestry Commission.

64-353 Dilgers Hill, Mathinna area Outcrop of Permian Sandstone

The rock is a fine grained friable quartz sandstone. The normal colour is white but where weathering has penetrated a pale brown to buff coloration has resulted from ferruginous solutions.

In thin section the rock consists of well sorted, sub angular grains of quartz averaging about 0.4 mm across, cemented by opaque argillaceous material which may be stained by iron oxides. Some grains may show undulose extinction or contain inclusions of rutile.

64-352 Permian grit, Dilgers Hill

The hand specimen is a medium to coarse grained colourless rock consisting of quartz grains ranging from about 7.0 – 0.5 mm. In thin section the grains show undulose extinction and extensive cracking. Some grains of brownish quartzite are also present, but there is a general absence of any cementing material the grains being welded together and often showing zones of regrowth on the original sub angular to rounded fragments.

64-354 Dilgers Hill, Devonian granitic rock

The specimen is a coarse grained holocrystalline rock with crystals of feldspar up to 1 cm long, granular quartz, books of biotite up to 0.5 cm across and other ferromagnesian minerals.

In thin section the texture is generally hypidiomorphic, but occasionally poikilitic with plagioclase and ferromagnesian inclusions in orthoclase or felspar and biotite inclusions in hornblende. The principal felspar is oligoclase but there is also some orthoclase, and also a more basic felspar, as the larger crystals show zoning. Quartz is anhedral and interstitial. Hornblende is in subhedral crystals up to 2 or 3 mm long closely associated with biotite in euhedral crystals and ragged books.

Accessory minerals include minute crystals of magnetite, apatite and zircon.

The rock is a granodiorite.

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