

THREE ROCKS FROM DURROON-1Sample: Core 3 5559' : TS C8632

Location:

Durroon-1

Rock Name:

Lithic sandstone

Hand Specimen:

A weakly stratified rather friable sand-grain-sized grey-green and white mottled sedimentary rock. Rare patches of hydrocarbons are present.

Thin Section:

An optical estimate of the constituents gives the following:

	<u>%</u>
Quartz	10
Biotite	1
Plagioclase )	2
Microcline )	
Garnet	Trace
Opagues	1
?Glaucanite	Trace -1
Lithic fragments	85-90
Zircon	Trace
Apatite	Trace

The rock is almost wholly composed of lithic fragments and single grains of small-medium sand size (0.15-0.6 mm) with rare grains reaching 1 mm in length. There is little cementing material; that present is largely derived from the breakdown of clayrich lithic fragments, with additional iron oxides present in well-defined layers paralleling the bedding.

Most grains may be classed as angular to sub-rounded with 'sub-angular' the most common. Bedding traces are not prominent except for the sub-parallel bands of opaques and a tendency for elongate or tabular lithic grains to lie parallel. The sorting of the rock is generally good but one deformed fragment of siltstone is 5 mm long and opaque 'grains', (?hydrocarbons or coal) with a cellular structure, are up to 2 mm long.