

PETROLOGY

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11. Examination of a rock sample from Sailfish No. 1 well, Bass Strait.

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The cuttings were from the bottom (1,420-1,422 m) of the Sailfish No. 1 drill hole which was situated 65 km north-east of Flinders Island.

The sample consists of granular fragments up to 3 mm across of a fine-grained greenish rock, white calcite and an occasional grain of silica. The green rock fragments frequently appear composite when they contain visible calcite.

In thin section the grains consist of calcite, occasionally with organic structures, and a green, very fine-grained, glassy material with minute vesicles lined and filled with radiating crystalline calcite. There are also a few rounded grains composed of fine-grained quartz mosaic.

Rock from the bottom 180 m of the hole consists largely of similar material which is of volcanic origin: either thin flows of lava which cooled too quickly to crystallise, or glassy ejectamenta.