

# PETROLOGY

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11. A specimen of slag from Bell Bay.

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Specimen 74-2, Bell Bay [DQ897477]

## Slag

The material is a brown glassy solid, one piece showing fluidal banding, of density  $3040 \text{ kg/m}^3$ , conchoidal fracture and glassy to resinous lustre on freshly fractured surfaces.

Under the microscope fragments consist of colourless glass with a refractive index of 1.54 with included micro crystals of higher refractive index. The glass contains minute dark vesicles with fluid and mobile bubbles. The micro crystals have an indefinite brownish to greenish-yellow colour, with straight extinction and birefringence approximately equal to one.

The spectroscope give strong lines for calcium and aluminium but none for magnesium.

The material is a calcium-aluminium silicate containing crystals of the melilite series, probably near to gehlenite.