

CENTRAL MINERALOGICAL SERVICES PTY. LTD.

Date 18th January, 1980

SAMPLE REPORT (Mineralogy, Petrology, Ore Microscopy)

Job No. CMS 80/1/7 Date Received: 8.1.1980

Reference Order No. 900093

Sample No. T 29705

Nature of Sample: D.D. Core

DESCRIPTION SECTION No. 30629

a. Hand Specimen:

Green-grey, sheared porphyritic rock.
K-feldspar stain test negative.

b. Microscopic:

This is a sheared, chloritised volcanic rock and there is some uncertainty about its composition; however, the available evidence suggests that it was a porphyritic sodic trachyte, perhaps verging on a rhyolite (but see below). Shearing has destroyed ground-mass textures and thus it is not known whether the rock was intrusive or extrusive, but there is little or no evidence to support a pyroclastic origin; in fact, it seems unlikely.

The rock consists of a high proportion (50-60 %) of quite well-formed phenocrysts of fairly extensively sericitised, but clearly identifiable albite; these are set in a fine-grained, schistose groundmass of chlorite and interstitial, ?secondary quartz; there are parallel streaks of leucoxene, derived from magnetite or ilmenite (i.e. primary accessory components). Secondary fine-grained, deuteritic carbonate occurs throughout.

The albite crystals are regarded as primary; quartz phenocrysts are absent. The chlorite in the groundmass could be derived from a primary ferromagnesian mineral, but might have formed deuterically (before shearing).

Other interpretations are possible for this rock, but are speculative in the absence of less-altered material.

H.W. Fander, M. Sc.

IDENTIFICATION

MRP 212

T 29705

27.5 m

Sheared Porphyritic
Sodic Trachyte