

CENTRAL MINERALOGICAL SERVICES PTY. LTD.

Date 18th January, 1980

SAMPLE REPORT (Mineralogy, Petrology, Ore Microscopy)

Job No. CMS 80/1/7 Date Received: 8.1.1980Reference Order No. 900093Sample No. T 29706Nature of Sample: D.D. CoreDESCRIPTION SECTION No. 30630

a. Hand Specimen:

Greenish, fine-grained rock with patches or veins of coarse K-feldspar (K-stain test positive).

b. Microscopic:

This is interpreted as a porphyritic andesite; the rock is pervasively deuterically altered and is fractured, but not sheared. Thus, its fabric is reasonably well-preserved and indicates that the rock was a lava, or even a minor intrusive, but not a pyroclastic.

The rock is composed dominantly of small, randomly orientated laths of oligoclase set in a cloudy mass of fine chlorite and zoisite-epidote with leucoxenised fine opaques; there are scattered small phenocrysts of albite. Primary quartz is absent. The secondary minerals in the groundmass represent ferromagnesian minerals (hornblende/pyroxene). Despite the occurrence of albite phenocrysts (not abundant in any case), it can reasonably be inferred that the rock was intermediate to basic rather than acid to intermediate.

Wide veins of K-feldspar cut the rock; they are bordered by albite crystals, are fractured and infiltrated by chlorite and carbonate; albite and chlorite veinlets also cut the rock, and there are isolated quartz veinlets.

The inferred composition of the rock differs from that suggested for T 29705; the fabric also differs, and shearing is absent.

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IDENTIFICATION

MRP 212

T 29706 4.2m

Altered Porphyritic
Andesite