

CENTRAL MINERALOGICAL SERVICES PTY. LTD.

Date 1st May, 1980

SAMPLE REPORT (Mineralogy, Petrology, Ore Microscopy)

Job No. CMS 80/4/24 Date Received: 24.4.1980
Reference Order No. 900144
Sample No. 33060T
Nature of Sample: D.D. Core

IDENTIFICATION
33060T
Porphyritic Trachyte (or Rhyolite) NPP215 - 70.5m

DESCRIPTION SECTION No. 31445

a. Hand Specimen:

Pale, fine-grained siliceous rock with small phenocrysts and traces of sulphide (?pyrite); K-stain test positive.

b. Microscopic:

This is a porphyritic trachyte or rhyolite, microfractured, but fresh; its classification depends on whether the fine quartz in the groundmass is primary or secondary/introduced. The absence of quartz phenocrysts suggests that the rock is a quartz-trachyte rather than a rhyolite; the fabric is that of a shallow or minor intrusive, rather than a lava. Flow features of any kind are absent.

The rock consists of small, well-formed prismatic crystals of albite, fresh and showing characteristic twinning, randomly-distributed and orientated in a rather featureless microcrystalline groundmass of poorly-defined K-feldspar and irregular quartz patches; the grainsize averages 20 μ .

Occasional straight-sided quartz-carbonate veins cut the rock, and there are networks of microfractures postdating (and displacing) these; the microfractures contain fine sericite and carbonate, accompanied by fine pyrite.

Even a chemical analysis would not resolve the problem of classification, since it cannot distinguish between primary and secondary quartz. The rock may well be related to 33059T, being compositionally quite similar.

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