

## 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. 33063T  
 Nature of Sample: D.D. Core

IDENTIFICATION
33063T
Altered Quartz-Trachyte NPP215 107.4

## DESCRIPTION SECTION No. 31448

## a. Hand Specimen:

Pale grey-green, fine-grained porphyritic rock;  
 K-stain test positive, but weak.

## b. Microscopic:

This is a sheared, almost completely altered porphyritic quartz-trachyte or rhyolite; relict textures suggest that it was originally largely glassy and very probably extrusive. Because of the alteration, the K-stain test shows no K-feldspar or K-silicate (assuming that they were present in the fresh rock.

Phenocrysts are common, but have largely been replaced by carbonate and sericite, as well as being fairly severely fractured; available optical data suggest that they are albite. The phenocrysts show subparallel orientation and are set in a fine groundmass of clay-sericite (the clay is probably dickite or halloysite) with fine fibrous textures. Small quartz patches are sparsely scattered through the groundmass; the groundmass shows strong preferred orientation, probably partly inherited flow fabric, partly due to shearing; devitrification textures are also present. Thus, there is fair evidence that this rock was probably extrusive, in contrast to the other rocks, though very probably genetically related.

Carbonate veinlets cut the rock and fine-grained pyrite occurs in some replaced phenocrysts.

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