

## CENTRAL MINERALOGICAL SERVICES PTY. LTD.

Date 1st May, 1980

## SAMPLE REPORT (Mineralogy, Petrology, Ore Microscopy)

Job No. CMS 80/4/24 Date Received: 24th April, 1980Reference Order No. 900144Sample No. 33059TNature of Sample: D.D. Core

## DESCRIPTION

SECTION No. 31444

## a. Hand Specimen:

Pale, fine-grained siliceous rock with fine sulphides;  
K-feldspar stain test positive.

## b. Microscopic:

This is a brecciated, silicified, weakly mineralised rhyolitic or trachytic lava, perhaps trending towards a trachyte.

Phenocrysts are very rare and comprise only sericitised or silicified laths of plagioclase; quartz and K-feldspar phenocrysts are absent. The bulk of the rock consists of ultrafine K-feldspar or devitrified K-silicate glass, with small patches of sericite (altered feldspar crystals) and secondary, introduced quartz; primary quartz may be absent altogether, which would mean that the rock was a trachyte, originally consisting of sparse plagioclase crystals in a K-silicate glass, but this interpretation is tentative in view of the alteration.

The rock is brecciated and quartz-veined; the veins tend to be irregular and branching, with diffuse margins, suggesting a deuteric phase of silicification rather than veining after a tectonic event. Traces of sulphides accompany the veining, and comprise pyrite, sphalerite and galena; the sphalerite forms irregular patches 50-700  $\mu$ , with chalcopyrite inclusions; galena is  $< 50 \mu$ . Pyrite is associated with the other sulphides and also as minute ( $< 5 \mu$ ) grains throughout the rock.

H.W. Fander, M. Sc.

## IDENTIFICATION

33059T

Rhyolitic or Trachytic  
Lava, weakly mineralised

NPP215 - 34.0m