

CENTRAL MINERALOGICAL SERVICES PTY. LTD.

Date 18th January, 1980

SAMPLE REPORT (Mineralogy, Petrology, Ore Microscopy)

Job No. CM S 80/1/7 Date Received: 8.1.1980

Reference Order No. 900093

Sample No. T 29708

Nature of Sample: D.D. Core

DESCRIPTION SECTION No. 30632

a. Hand Specimen:

Grey, fine-grained, uniform rock.

K-stain test negative.

b. Microscopic:

This is a banded, altered, fine-grained vitric-crystal tuff; it appears to have been subaqueously deposited, and shows slump-structures and other pre-consolidation features.

The rock consists of alternating finer and coarser layers; the fine layers are principally composed of altered shards and fine splinters, with scattered small crystal-fragments. The coarser layers consist mainly of crystal-fragments of altered albite in a fine, poorly-defined matrix of altered ash, and the layers merge into one another. The finer layers show good small-scale bedding-lamination and, in places, this lamination is interrupted, with adjacent blocks showing changes of direction; this is typical of intraformational deformation and brecciation of an unlithified or partly lithified sediment.

Networks of chlorite, quartz and albite veinlets occur; a few of these carry ultrafine pyrite and minor traces of sphalerite. This vein-system, possibly of diagenetic formation, is cut by younger quartz-carbonate veins.

The tuff is believed to be broadly trachytic/andesitic in composition.

H.W. Fander, M. Sc.

IDENTIFICATION

MRP 212

T 29708 133.4

Vitric-Crystal Tuff