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CENTRAL MINERALOGICAL SERVICES PTY. LTD.

Date 1st May, 1980

SAMPLE REPORT (Mineralogy, Petrology, Ore Microscopy)

IDENTIFICATION
33064T
Mineralised Rhyolite NPP215 110m

Job No. CMS 80/4/24 Date Received: 24.4.1980  
 Reference Order No. 900144  
 Sample No. 33064T  
 Nature of Sample: D.D. Core

DESCRIPTION SECTION No. 31449

a. Hand Specimen:  
 Pale, fine-grained felsic rock, with quartz-sulphide veins.  
 K-stain test positive.

b. Microscopic:  
 This is a mineralised rhyolite or quartz-trachyte, with small (< 0.5 mm), inconspicuous phenocrysts; it is compositionally very similar to 33062T and others and has similar fabric, suggesting a shallow/minor intrusion.

Small, stout prismatic fresh albite phenocrysts are fairly sparsely and randomly scattered through the microcrystalline groundmass of poorly defined quartz and K-feldspar. There is little or no preferred orientation, and the fabric is homogeneous.

Ultrafine pyrite pervades the whole rock; in addition, there are coarser sulphide patches intergrown with hydromuscovite ("sericite"). Irregular veinlets of sericite and carbonate traverse the rock, and there are conspicuous veins up to 3 mm wide, with straight walls; these consist of clear albite crystals (edges), with coarse carbonate, sulphides and quartz, as well as hydromuscovite aggregates.

The coarse sulphides comprise sphalerite, as patches up to 3 mm wide and semi-continuous in veins; it contains blebs of chalcopyrite, traces of fine galena and pyrite. There are also occasional, slightly coarser patches of galena and pyrite, as well as minute scattered pyrite crystals.

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