

29870

(T.S. 31974) K-stain virtually negative.

This is a thoroughly altered lava, reasonably interpreted as a porphyritic andesite.

S371900N

302402E

*Still follow up  
Grid*

Frequent plagioclase phenocrysts are represented by pseudomorphous aggregates (to 1.8 mm) of epidote and albite. Slightly subordinate pyroxene phenocrysts are pseudomorphed by massive granular epidote. Minor phenocrystal amphibole is represented by semi-pseudomorphous epidote-actinolite aggregates. The altered groundmass consists of microcrystalline/weakly directed plagioclase aggregates pervasively stained with microgranular epidote and ultrafine acicular tremolite-actinolite. Relict features comprise a perlitic devitrification structure and a microscale flow-banding which are variably obliterated by a weak, but penetrative, slaty cleavage.

Minor leucoxenised opaques and rare grains of apatite are present. Apatite is the typical smokey variety, characteristic of the Mount Read Volcanics.

29876

(T.S. 31975) K-stain positive.

This altered porphyritic lava is essentially similar to 29870. In contrast, it is relatively alkaline and relatively devoid of ferromags. General features are consistent with a porphyritic trachyandesite.

S371900N

302506E

*Still follow up  
Grid*

The phenocrystal assemblage comprises epidote-stained, albitised plagioclase (to 2 mm), subordinate, relatively fine alkali feldspar (pseudomorphed by clear albite, with accessory K-feldspar), and relatively minor, sheared, epidote-stained chlorite aggregates after ?amphibole. These are evenly disseminated throughout a chlorite-stained, partly recrystallized/directed, microcrystalline, feldspathic groundmass with patchy relict ?albite microlites embedded in felsitic, anhedral K-feldspar.

A faint relict microscale flow-banding is enhanced by the slaty cleavage. Accessories include relatively abundant leucoxenised opaques and traces of apatite. Chlorite is in part "retrograde" after biotite, but the assemblage is slightly lower grade than that in 29870 (biotite as against tremolite-actinolite).

29877

(T.S. 31976) K-stain positive.

This rock is closely related to 29870 and 29876 and the petrology is essentially a composite of that described above. The rock can be classified as an altered and sheared porphyritic trachyandesite, but appears slightly less alkaline than 29876.

S371900N

302607E

*Still follow up  
Grid*