

T 35238 (T.S.31970) K-stain negative.

This is a contact-metasomatised tuffaceous greywacke and is fairly typical of the more labile Crimson Creek facies.

S 371 638N

375100E

Coldbrook  
Hill

The relict framework is poorly sorted in the silt to fine sand range, with sporadic medium sand-sized 'megaclasts'. Faint bedding is marked by dimensional orientation paralleled by very incipient grading. Many clasts are altered beyond recognition, but less altered types are clearly recognisable as angular, microcrystalline intermediate lava clasts (andesitic-trachytic) with subordinate feldspar. Quartz is an accessory component, and fine silt-sized clastic opaques are pervasive throughout.

The matrix is completely replaced by very fine random actinolite. This phase also pervades the framework by progressive replacement of the lava clasts and feldspar grains. Minor actinolite veining is evident and the metasomatic amphibole is incipiently altered by late, pseudo-morphous chlorite. Opaques are partly replaced by cloudy, microcrystalline sphene.

This rock includes minor traces of pyrrhotite (partly pyritised), but is devoid of detectable cassiterite. Possibly, minor traces are masked by sphene (the optical distinction is problematical at very fine sizings and the situation is further complicated by occurrences, in similar situations, of stanniferous sphene).

29828 (T.S. 31971) K-stain positive.

This is a sericitic phyllite derived from a pelitic tuff.

S 372 800N

388 490E

STG VALLEY

SOPHIA R.

Main constituents are orientated sericite and closely intergrown, ultrafine quartzofeldspathic material with subtle variations defining submillimetric-to microscopic-scale, lenticular to planar laminations. Much of this material is featureless, but vague relict, microshard-like textures persist in places and tend to confirm a devitrified altered and sheared pelitic ash interpretation.

Silt-to medium sand-sized clasts are more or less evenly disseminated throughout, comprising around 10-20 % of the rock. Poorly defined microfelsitic lava clasts are accompanied by subangular to rounded quartz and minor sericitised indeterminate feldspar. A few quartz grains are clearly primary volcanic crystal types, but the bulk indicate at least incipient abrasion. Accessories include occasional rounded zircons of detrital character, minor clastic opaques, traces of carbonaceous matter and rare oxidised pyrite grains with quartz (+ chlorite) pressure shadows.