

Hangingwall Quartz-Sericite Zone

S716 Outcrop: Sheared, grey-white, sericitic volcanic rock.

Primary Features: Plagioclase phenocrysts are set in a fine-grained groundmass bearing accessory zircon. Zircon is also enclosed by certain phenocrysts.

Secondary Features: The plagioclase phenocrysts are albitic and bear sparse fine-grained sericite and calcite as alteration products. The groundmass is a fine-grained intergrowth of quartz-feldspar, sericite, chlorite and opaques. Limonite stains make a well-developed cleavage. The chlorite has P: blue-green to colourless; AIC: brownish-grey.

Identification: A plagioclase-phyric volcanic rock of indeterminate origin.

Hangingwall - Relatively Fresh Volcanics

S729 Outcrop: Massive, pink, feldspar-phyric volcanic rock with chloritic green patches.

Primary Features: Plagioclase phenocrysts are set in a fine-grained groundmass with accessory zircon and vague indications of shards in places.

Secondary Features: The plagioclase phenocrysts bear a little scattered sericite and some recrystallised albite, but otherwise appear fresh (apart from albitisation). The groundmass consists largely of an intergrowth of irregular quartz-albite crystals with lesser amounts of sericite (marking the cleavage) and chlorite (as patches of fine grains and scattered single grains). Opaques are uncommon. The chlorite has P: dark green to pale yellow; AIC: None (grey).

Identification: A plagioclase-phyric, vitric-crystal tuff.

S707 Outcrop: Massive pink volcanic rock with green patches and local flow-banding.

Primary Features: Phenocrysts of plagioclase and a few of quartz occur in a fine-grained groundmass with a variety of textures. Perlitic cracks occur in one area and a weak primary foliation can be seen in others. (Chlorite and calcite contents also vary greatly). Accessory zircon is mainly enclosed by plagioclase phenocrysts.

Secondary Features: A little calcite and sparse sericite partly replace the plagioclase phenocrysts. The groundmass consists of fine-grained quartz-albite, an intergrowth of irregular grains, with patches of calcite, chlorite and opaques. A little sericite marks a widely-spaced cleavage. Limonite stains are commonly associated with calcite, which thus appears to have some sideritic component. The groundmass carbonate may differ from the phenocryst replacement in that respect. The chlorite has P: pale to dark green; AIC: green on grey.

Identification: A plagioclase-phyric volcanic rock, probably a blocky (autobrecciated ?) lava of rhyolitic-dacitic composition.