

KR3442:      biotite quartz felspar porphyry;  
                  biotite chloritised felspar  
                  phenocrysts completely sericitised

Field note: porphyritic rhyolite or lithic crystal tuff

Phenocrysts of subrounded to almost euhedral quartz crystals (20%) up to 10 mm, euhedral plagioclase crystals (20-25%), and more or less single flakes of biotite (10-12%) are randomly disposed through a fine crystalline groundmass.

The quartz crystals are stressed and partly recrystallised, plagioclase is completely replaced by fine sericite, and the biotite is completely chloritised and crowded with titaniferous granules + associated small epidote crystals some of which grade to the orthite variety.

The groundmass consists of a fine mosaic (not necessarily microcrystalline) of essential quartz and potash felspar, with disseminated fine chloritised biotite.

This is highly characteristic of the quartz felspar porphyry group defined in report 2228. In this suite it compares with 3344.