

258085

CENTRAL MINERALOGICAL SERVICES

080

Sample No.	Rock Type - Composition	Fabric	Minor Minerals	Comments
A6471 (T.S. 48784)	<u>Porphyritic Rhyolite</u> . Phenocrysts of orthoclase and of corroded quartz, in a groundmass of fine felted plagioclase needles and shreds of chloritised biotite with quartz.	Phenocrysts up to 5 mm; groundmass uniform, faintly orientated, fine-grained.	Small vugs filled with clear K-feldspar (adularia), chlorite. Leucoxenised opaques.	Feldspar phenocrysts partly sericitised. Parts of rock brown due to oxidation of chlorite. Rock is intrusive, could be a rhyodacite (toscanite).
A6472	<u>Argillised Porphyritic Felsite</u> . Completely argillised feldspar phenocrysts, a few small corroded quartz phenocrysts, in an argillised felsitic groundmass of quartz and sericite.	Relict medium-grained felsitic textures. Some phenocrysts are fragmentary. Random fabric.	Fine oxidised mica (?biotite-chlorite). Quartz veins. Pervasive Fe-staining.	Argillic alteration is low-temperature hydrothermal. Rock broadly similar to A6471, also intrusive, but exact composition not known.
A6473	<u>Porphyritic Rhyolite</u> . Completely sericitised feldspar phenocrysts, embayed quartz crystals, a few K-feldspar crystals, in a fine felted K-feldspar groundmass with chlorite.	Matted-parallel textures with overprint of felsitic patches. Random phenocrysts.	A few chloritised ?hornblende crystals. Matted chlorite aggregates (deuteric). Fe-staining.	Selective sericitisation/chloritisation of plagioclase phenocrysts. Rock perhaps closer to quartz-trachyte than rhyolite. Probably intrusive.
A6476	<u>Lithic-Crystal Tuff</u> . Small and large fragments of altered intermediate lavas and of vitric tuffs, crystals and fragments of andesine, augite, quartz, K-feldspar. Chloritised matrix.	Poorly-sorted, weakly bedded. Lithic fragments up to 15 mm, i.e. lapilli size.	Fragments of chloritised basic glass. Fine carbonate associated with chloritisation.	Source rocks mostly intermediate to basic, coarsely-crystalline, but lithic fragments much more diverse. Post-depositional chloritisation.
A6478	<u>Porphyritic Rhyolite</u> . Small phenocrysts of quartz and of albite, generally in clusters set in a fine felsitic, cloudy groundmass of quartz and K-feldspar, with fine chlorite.	Phenocrysts are strongly stressed. Parts of groundmass have fine glassy/shard-like textures.	Patches and veinlets of fine granular epidote. Leucoxenised primary opaques.	May be extrusive, as suggested by groundmass textures. Composition was sodi-potassic, may be related to A6473. Epidote is deuteric.
A6481	<u>Sheared, Altered ?Greywacke</u> . Closely-packed small stretched ovoid grains of impure chert, shale, carbonaceous siltstone and shale; interstitial fine quartz, limonitic clay, mica flakes.	Well-sorted; clastic textures preserved. Well-bedded with superimposed shearing.	Crosscutting goethite veinlets.	Rock is severely altered and most components difficult to recognise, but grains apparently mostly sedimentary rocks, with possible reworked ?tuffs.
A6482A	<u>Metarhyolite</u> . Stressed, fractured quartz and sericitised feldspar phenocrysts in a schistose groundmass of fine sericite flakes, quartz splinters, and ultrafine leucoxene.	Strongly schistose, with stressed phenocrysts. Possible relict flow-banding.	Selective iron-staining of some patches, ?altered biotite.	Rock was broadly rhyolitic. Feldspar phenocrysts were sericitised after shearing, though groundmass already altered (before shearing).
A6482B	<u>Altered Porphyry</u> . Scattered argillised, ferruginised feldspar phenocrysts, whole and fragmentary quartz crystals, in a groundmass of clays and limonite, ultrafine hematite.	Random distribution and orientation of phenocrysts. Structureless groundmass.	Isolated, relatively large euhedral zircon crystals.	Poorly-preserved relict features suggest a medium-grained intrusive of acid composition. Contrasts with A. No shearing.