

0415

**SAMPLE NUMBER: 431551****SUMMARY:**

This is a formerly glassy sparsely plagioclase-phyric acid andesite lava with strongly recrystallized silica-sericite groundmass; it is almost identical to 431597.

**HAND SPECIMEN:**

This is a grey aphyric recrystallized and altered dacitic to andesitic lava cut by chlorite-quartz veinlets.

**THIN SECTION:**

Although the glassy groundmass of this sample has recrystallized thoroughly to a silica-sericite intergrowth, the texture is relatively well-preserved. The sample is composed of about 3-5 modal% of small plagioclase phenocrysts that are completely sericitized, and one or two small chloritized augite phenocrysts, and small leucoxenized FeTi oxide grains in a uniform recrystallized groundmass. The groundmass is composed of granular secondary quartz and abundant interstitial sericite, with minor chlorite, and relatively abundant equidimensional Fe oxide grains. A few narrow chlorite-quartz grains cut the sample.

This sample is very similar to 431597 in every way, and has the same implications. It is an evolved andesitic lava with silica-sericite alteration of the originally glassy groundmass.

**SAMPLE NUMBER: 431552****SUMMARY:**

This is a sparsely quartz+feldspar-phyric glassy rhyolitic lava that has had the groundmass recrystallized as silica-sericite-pyrite.

**HAND SPECIMEN:**

This is an almost aphyric pale grey formerly glassy felsic lava with strong silica-sericite alteration and a few quartz veinlets.

**THIN SECTION:**

This sample is clearly a sparsely quartz+feldspar-phyric rhyolitic lava that originally had a glassy groundmass. It consists of several modal% of small (<1mm across) subhedral to rounded and resorbed quartz