

mafic precursor than dacite) that suffered strong sericite-silica alteration during recrystallization of the glassy groundmass, then a later strong fluid fracturing alteration event that brecciated the sample along fluid passageways and caused intense silica alteration.

SAMPLE NUMBER: 431556

SUMMARY:

This is a formerly glassy sparsely plagioclase and quartz-phyric rhyolitic lava in which the groundmass recrystallized during strong silica-sericite \pm pyrite alteration. It is essentially identical to 431552 and 553.

HAND SPECIMEN:

This is a massive pale grey silicified felsic lava with irregular dark spotting of more chlorite-rich matrix.

THIN SECTION:

This sample is a silica-sericite altered formerly glassy sparsely plagioclase-phyric dacite lava almost perfectly identical to 431552 and 553. It consists of a few modal % of small totally sericitized plagioclase phenocrysts smaller than 1mm long, and a few almost completely resorbed and rounded quartz phenocrysts in a silica-sericite-altered once-glassy matrix. The latter has recrystallized as an even-textured intergrowth of equidimensional granular quartz with grains less than 0.05mm across, and interstitial pale sericite that does not (at least in the orientation of this section) form an orientated mesh as often seen in such rocks. The sample is cut by a few strained quartz-chlorite veinlets that contain common idiomorphic pyrite grains to about 0.7mm across. Disseminated grains of pyrite are quite common throughout the recrystallized matrix.

SAMPLE NUMBER: 431557

SUMMARY:

This is a formerly glassy sparsely plagioclase+augite-phyric dacite or acid andesite lava that has undergone extensive silica-chlorite (+minor sericite) alteration.

HAND SPECIMEN:

This is a dark green-grey andesitic lava or lava breccia with paler coloured silica-altered (?) areas between apparent fragments.