

0587

**SAMPLE:** 562665

**SUMMARY:** This sample was a sparsely plagioclase-phyric dacitic lava that now shows a false brecciated texture due to fracturing and partial silicification.

**HAND SPECIMEN:**

This is a hard, green feldspar-phyric felsic lava breccia with lava fragments to at least 2cm long. It may be silicified to some degree.

**THIN SECTION DESCRIPTION:**

This appears to be a monomict lava breccia composed of fragments mainly around 0.5-1cm long of sparsely plagioclase-phyric dacite. Careful examination suggests that the lava breccia texture may well be 'false', being produced during fracturing-related silicification of this once-massive lava. Plagioclase phenocrysts form around 2-4 modal% of this rock, and are albitized prisms, mainly around 1mm long or less, with common chloritized melt inclusions and pale brownish patches due to sericite and micro-inclusions of Fe oxides(?). These phenocrysts often occur in multi-crystal clots. Few if any former mafic phenocrysts were present in this rock; only two adjacent elongate crystals now composed of multicrystalline quartz and chlorite may have been former augite crystals. A few leucoxenitized former FeTi oxide microphenocrysts are present.

Where least altered and recrystallized, the groundmass of this sample was glassy to vitrophyric, with tiny plagioclase microlites charged through altered glass. The glass has recrystallized to a very fine-grained irresolvable quartz-albite-chlorite(?) intergrowth. Those areas between apparent fragments are cleaner, somewhat coarser-grained and certainly more quartz-rich than within fragments. They grade imperceptibly into typical fragment lithology in most places, although sharp boundaries between fragment and interstitial domains are sometimes apparent. These areas are almost certainly parts of the rock that have been soaked in quartz-rich solutions during fracturing of this dacitic lava. These areas sometimes pinch out into quartz veinlets. This rock is interpreted as a former dacitic lava that shows a false brecciation texture due to silicification during fracturing.