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SAMPLE NUMBER: 563789 HAT-3, 133.45m

SUMMARY:

This is an intensely sericite-pyrite (+hematite?)-altered strongly plagioclase+augite-phyric basaltic to andesitic lava.

THIN SECTION DESCRIPTION:

This is a rather paler grey, speckled and strongly altered basaltic lava in which much of the original texture, and all of the primary mineralogy has been obliterated. It is clear that the rock was phenocryst-rich, although the identity of the former phenocrysts is rather difficult to ascertain. Phenocrysts range up to 2mm long, and are totally replaced by fine-grained sericite, although far from the majority (a large minority?) of them have shapes suggestive of plagioclase precursors. Many were probably augite. No clear former olivine phenocrysts could be identified.

The groundmass of this rock was probably vitrophyric, but it has been thoroughly replaced by fine-grained sericite and very fine-grained quartz riddled with tiny to 0.4mm-sized altered(?) pyrite clusters and trails of grains and possibly abundant very fine-grained hematite.

This rock was probably a strongly plagioclase+augite-phyric andesite to basalt lava. It has suffered severe sericite-pyrite (hematite) alteration.