

grain size up to 0.4 mm and some of the larger sulphide crystals are partly surrounded by quartz showing pressure shadow textures.

Portion of one of the white veins is included in the area sectioned and this contains a coarse-grained carbonate which does not stain with alizarin red-S and which has a refractive index (ordinary ray) corresponding to that of dolomite. This coarse-grained dolomite contains some very thin veins of calcite and is also partly surrounded by calcite which has filled a few interstices between dolomite crystals. Calcite concentrated at the end of this aggregate of dolomite crystals shows pressure shadow textures similar to those in calcite which has crystallized against some of the quartz phenocrysts. Clearly the calcite has crystallized after the dolomite.

**Conclusion:**

A deformed pyroclastic which originally had a more basic composition than samples S 424, 425 and 427 and had only very few quartz phenocrysts.