

14253

PHYSICAL CHARACTERISTICS

Mass

1.23 g

Dimensions

1.6 x 1.0 x 0.4 cm

Sample 14253 is a gray angular, blocky, homogeneous, crystalline breccia.

SURFACE FEATURES

Glass lined pits, 0.5-2.0 mm in diameter, are present on two eroded surfaces. None are present on the hackly surfaces. Vugs 0.2-1.0 mm in diameter, are concentrated at one end, making up less than 5% of the sample. One large vug (3 mm) is lined with white crystalline material. Some penetrative and some non-penetrative fractures are present.

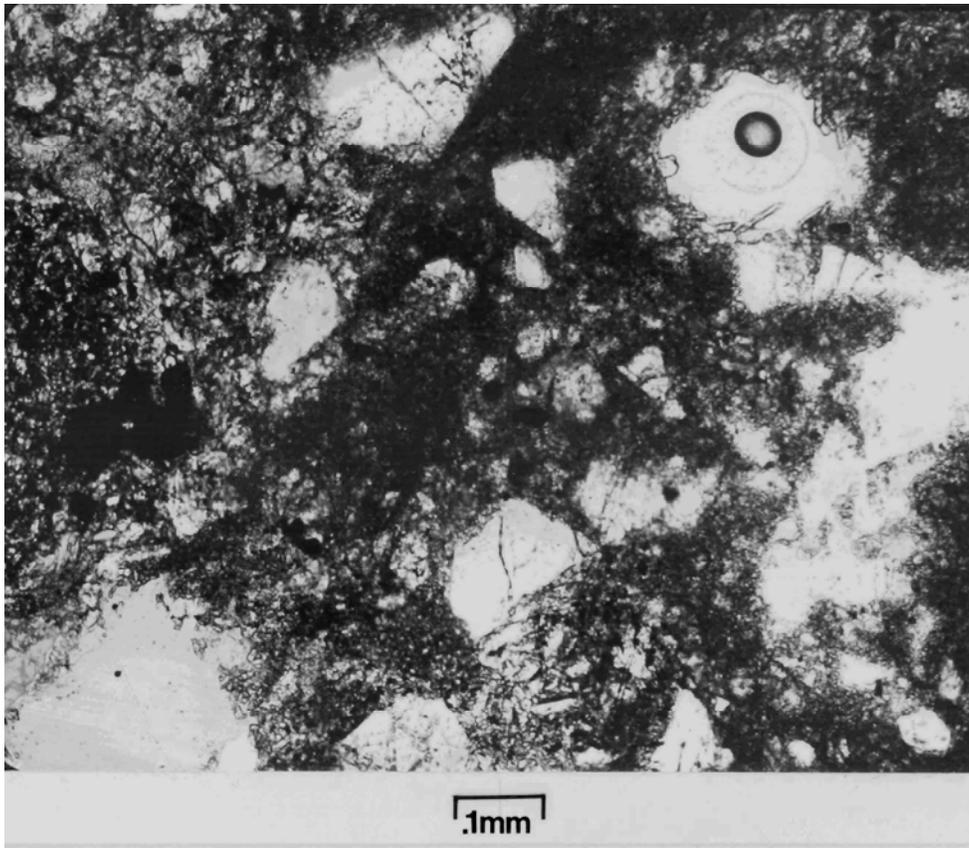
PETROGRAPHIC DESCRIPTION

Sample 14253 is described as a tough, homogeneous, crystalline breccia. All grains are smaller than 1.0 mm. Ninety-five percent of the grains are between 0.1 and 0.2 mm, appearing to be annealed. Two types of mineral clasts are present. Type I is very light gray and appears to be plagioclase, some showing gradational white to gray contacts with the matrix. Grains are round in shape and occupy 5% of the sample. Type 2 is light greenish yellow, probably pyroxene and/or olivine, and round. It is only approximately 1% of the sample.

Thin section 14253,3 shows the rock to be nearly all crystalline with 10-15% of gray matrix. There are only two clasts present. The first is a highly deformed granulated crystal of plagioclase which now shows multiple domains in the crystal. The second type is a fine-grained microbreccia, with scattered pyroxene and olivine fragments. The remainder of the matrix is composed of a seriate mixture of pyroxene, plagioclase and minor olivine fragments. Most of the fragments are pyroxene.



Width of image is approximately 2.0 cm, S-71-26320



14253,3