

14269

PHYSICAL CHARACTERISTICS

Mass

17.19 g

Dimensions

4.0 x 2.5 x 3.0 cm

Sample 14269 is a dark medium gray, fragmental microbreccia with one rounded side.

SURFACE FEATURES

Glass coating covers 20% of the surface. Glass lined zap pits up to 0.3 mm in diameter occur on the rounded side of the breccia and are present but sparsely distributed on the glass coating. Numerous penetrative fractures are present with glass veins occurring along several fractures.

PETROGRAPHIC DESCRIPTION

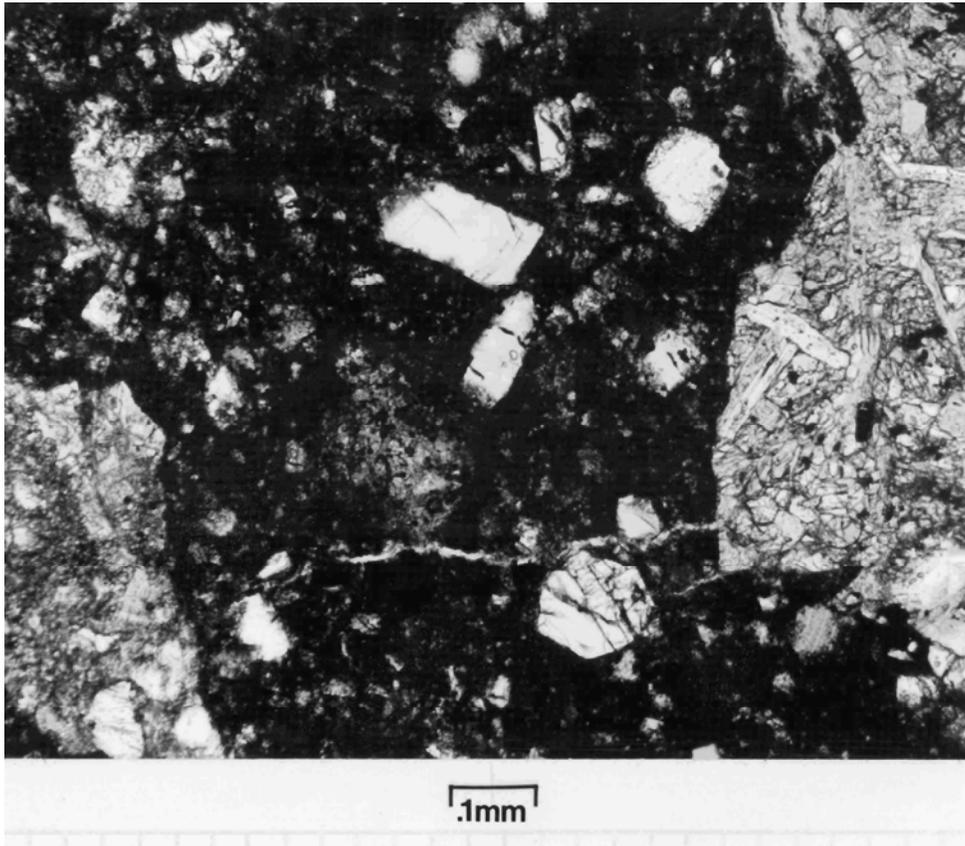
The sample has a seriate texture with no fragments as large as 1.0 mm. Seventy-five percent of the sample is dark medium gray, aphanitic material. Twenty percent is composed of very light gray, lithic fragments that are subrounded to subangular in shape. These have a fine, crushed appearance with about 60% feldspar and 40% mafic minerals. Another type of lithic clast is medium light gray and is a 50:50 mixture of gray and white material giving a salt and pepper appearance to these grains. These are 4 - 5% of the sample. One grain of what looks like feldspar coated with rust is present. It is pale orange in color, irregular in shape, and 0.5 mm in size.

This sample appears to be intermediate in color and coherence between vitric and fragmental, friable microbreccias (soil breccias) Phinney et al. (1975).

Thin section 14269,4 shows the rock to be a glass-rich breccia with 10 - 20% "glass" in the groundmass. One clast is present in the section. The clast is a crystalline rock which appears to be most like a melt rock. The plagioclase and pyroxene are not well formed and it lacks a typical igneous texture. Numerous glass shards, many containing mineral fragments and some partly devitrified, are scattered throughout the section. Fragments of microbreccia, shocked plagioclase, pyroxene and devitrified glass comprise the remainder of the fragments in the matrix.



Width of image is approximately 4 cm, S-71-26363



14269,4