

14283,0

PHYSICAL CHARACTERISTICS

Mass

1.25 g

Dimensions

1.5 x 1.2 x 0.6 cm

Sample 14283 is a light gray, slabby, angular, coherent, crystalline, polymict breccia.

SURFACE FEATURES

Zap pits are present on one face, only, and are few in number. There are few, penetrative fractures present.

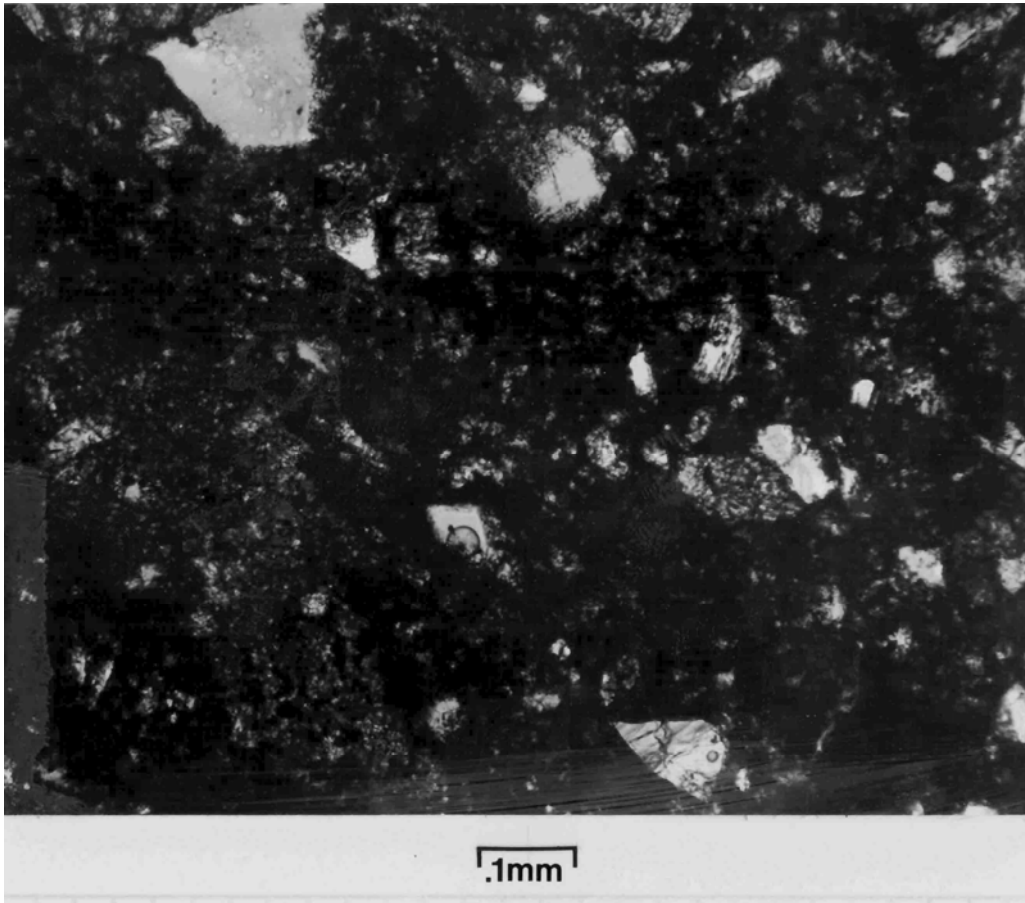
PETROGRAPHIC DESCRIPTION

The sample is light gray, coherent, and has a seriate texture with some lineation of clasts. Sixty-five to seventy percent of the sample is medium light gray, fine-grained, granular, crystalline material smaller than 0.1 mm in size. Fifteen percent are very light gray, lithic clasts that are subrounded and are mostly 0.5 mm in size, ranging up to 4.0 mm. These are mostly white plagioclase, with 10-20% mafic material. A second type of lithic clast is light gray, subrounded, and generally is 0.5 mm in size, but is as large as 2.0 mm. These are composed of a 50:50 mixture of white, sugary grains and gray, vitreous material. A third type of lithic clast is 1 mm in size, light gray, and composed of equigranular 0.2 mm grains of 80% plagioclase and 20% mafic silicates with a trace of opaques. Pyroxene and/or olivine, light brown to light green in color is present as mineral clasts.

Thin section 14283,5 shows the rock to be nearly holocrystalline with only scattered small amounts (< 1%) glass in the matrix. The only clasts present are microbreccias with residual pyroxene shards. One microbreccia has a dark, nearly opaque matrix hosting the mineral shards. There are several small, orange glass droplets scattered throughout the matrix. There is also a trace of spinel in the matrix. There are numerous irregular, blocky masses of undevitrified glass in the matrix. Most of the glass is colorless to yellow. The remainder of the matrix is composed of pyroxene mineral fragments, devitrified glass, microbreccia fragments, small amount of opaques, rare crystalline rock fragments, and abundant fine-grained material.



Width of image is approximately 2 cm, S-71-26651



14283,5