

14277

PHYSICAL CHARACTERISTICS

Mass	Dimensions
7.59 g	1.2 x 1.7 x 2.5 cm

Sample 14277 is a dark gray, blocky, coherent vitric [matrix] breccia.

SURFACE FEATURES

Few pits are present. They occur only on one side and two ends. There are few non-penetrative fractures. A few veins of black vesicular glass is present in some fractures.

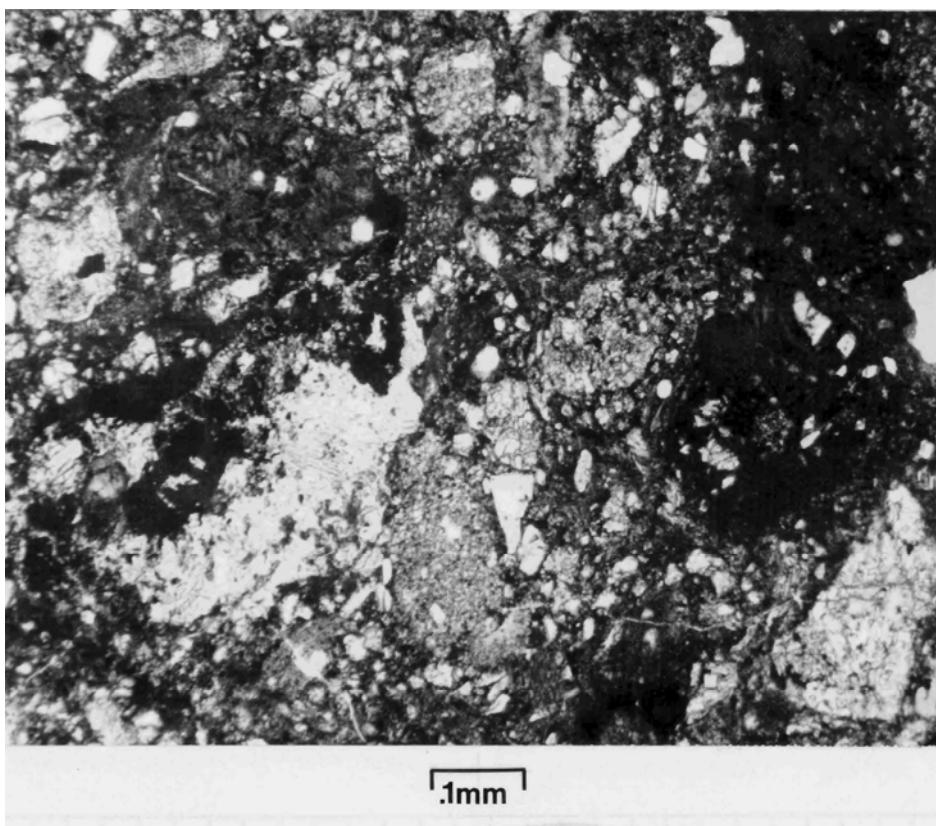
PETROGRAPHIC DESCRIPTION

Sample 14277 is a dark gray, coherent, seriate textured breccia. The matrix is dark gray, aphanitic, vitreous material and is 65 - 70% of the rock. Twenty-five to thirty percent is composed of very light gray, subangular to subrounded, lithic clasts that are dominantly 1.0 mm in size, but are as large as 4 mm in diameter. These consist of a crushed mixture of plagioclase and gray material. There are scattered specks of a black, opaque mineral present in these clasts. A second type of lithic clast is medium gray, sub-angular to subrounded and range up to 2 mm in size. These fragments are dominantly smaller than 1.0 mm in size and, in all comprise 5 - 10% of the sample. Thin section analysis shows the lithic fragments to be primarily devitrified glass and fine-grained microbreccias. Approximately 10% of the matrix is lithic and 90% mineral fragments and glass. There are abundant glass droplets scattered throughout the matrix. They are composed of very fine grained material which is probably annealed.

Thin section 14277,5 shows the rock to be a glass-rich breccia with approximately 40% yellow-brown glass in the matrix (< 1 mm). There are a few chondrule-like bodies present but clasts (> 1 mm) are rare. The one present in this section is a breccia with minor glass in the matrix and composed of deformed crystals of pyroxene with minor plagioclase. There are scattered vugs which are elongate and vary from 0.4 to 0.2 mm in length and 0.1 mm in width.



Width of image is approximately 3 cm, S-71-26632



14277,5