

14280,0

PHYSICAL CHARACTERISTICS

Mass

6.20 g

Dimensions

1.0 x 1.3 x 3.6 cm

Sample 14280 is a medium dark gray, angular block of vitric [matrix] breccia.

SURFACE FEATURES

Glass coats 20% of the surface and contains cavities. Zap pits occur on all surfaces and are numerous. There are several penetrative fractures on the sample.

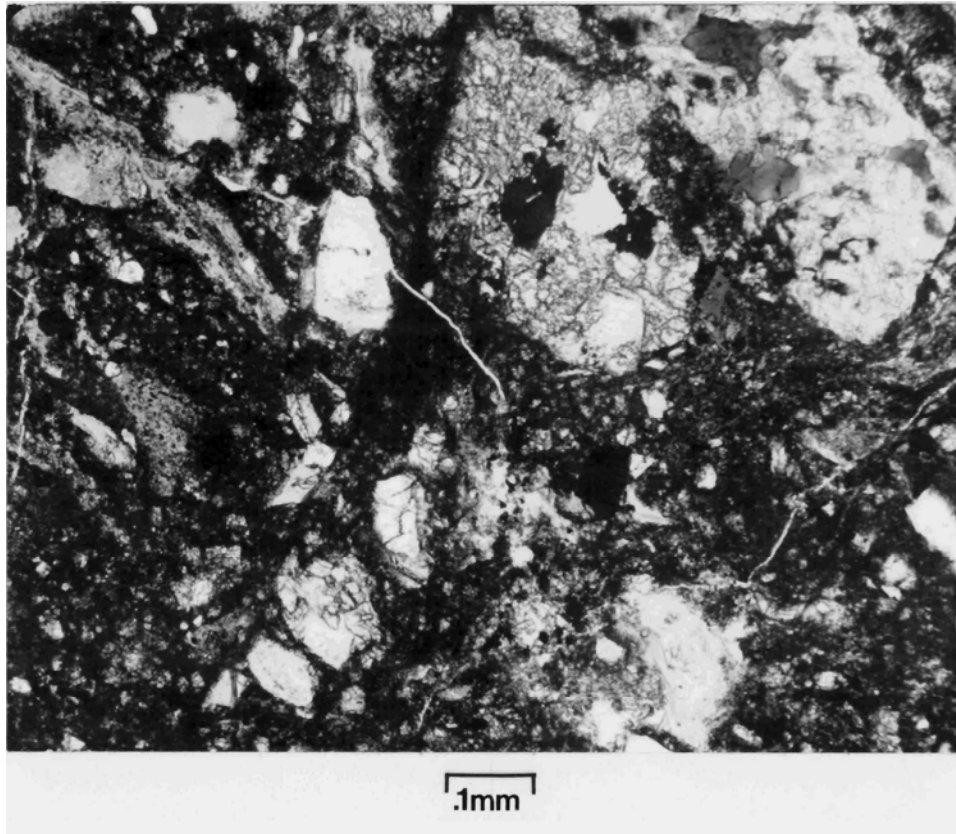
PETROGRAPHIC DESCRIPTION

The sample is coherent and is seriate in texture. Fifty-five percent of the sample is medium dark gray, aphanitic, vitreous material. The more abundant lithic fragments, making up 30% of the sample, range up to 3.0 mm in size, but are predominantly 0.3 - 0.5 mm in size. These are very light gray, subrounded fragments composed of crushed or sugary-textured plagioclase with accessory pale brown mafic minerals and specks of black, opaque minerals. The other type of lithic clasts is medium gray, subrounded, and very fine-grained with a few white spots. In thin section they are represented as devitrified glass and fine-grained microbreccias. These are predominately 0.3 - 0.4 mm and range up to 2 mm in size. They make up 15% of the sample.

Thin section 14280,5 shows the rock to be a glass-rich breccia with a heavy glass coating on one side. The glass coating is full of small crystals and crystallites. The coating also shows evidence of flowage and has numerous bubbles. Scattered throughout the section are masses of dark brown glass. The rock is highly fractured. Approximately 40% of the matrix (< 1 mm) is glass or "glassy". All the mineral grains are highly shocked and most are pyroxene crystals.



Width of image is approximately 4 cm, S-71-26026



13280,5