

14278

PHYSICAL CHARACTERISTICS

Mass

7.60 g

Dimensions

1.5 x 3.0 x 1.5 cm

Sample 14278 is a medium light gray, subrounded, coherent, low-grade, polymict breccia.

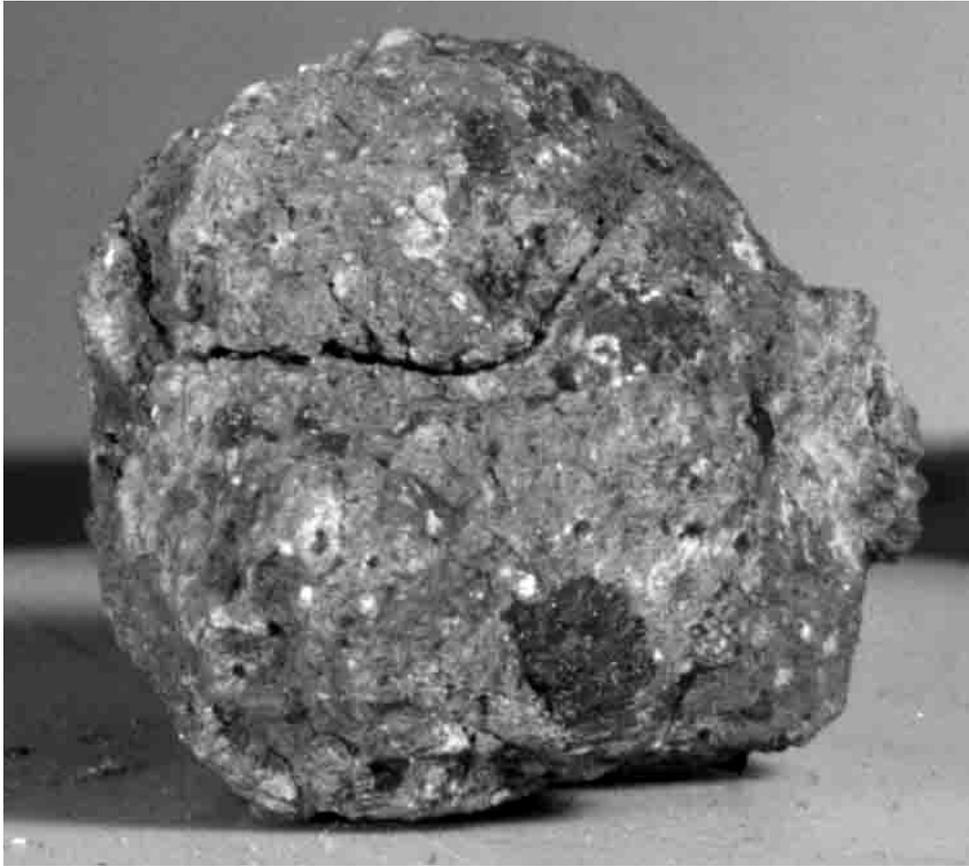
SURFACE FEATURES

Glass-lined zap pits, 0.5 to 2.0 mm in diameter, occur on most surfaces. There is one irregular, fresh surface which contains no zap pits. Few non-penetrative fractures are present.

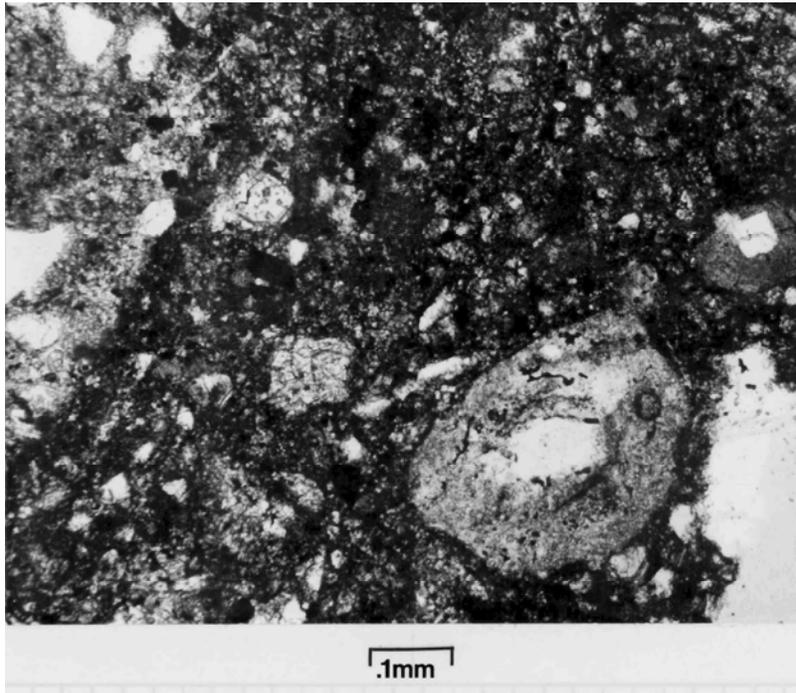
PETROGRAPHIC DESCRIPTION

Seventy-five percent of the sample is medium light gray, fragmented material which is a mixture of mostly plagioclase and at least two mafic minerals. These are partially recrystallized, and are less than 0.2 mm in size. The most abundant fragments are light gray, lithic fragments, which comprise 15% of the sample. They range up to 1.0 mm in size and are subangular to subrounded in shape. They are composed of plagioclase with scattered mafic minerals, giving a salt-and-pepper appearance. The second type of lithic fragment is dark gray, subangular to subrounded, and range up to 1.0 mm in size. These comprise 10% of the sample and have an aphanitic texture. Mineral clasts are light greenish, irregular in shape, and range up to 2 mm in size. These appear to be crushed pyroxene and/or olivine.

Thin section 14278,4 shows the rock to be a breccia with approximately 5% "glass" in the groundmass. The only clast present is a fine-grained microbreccia with few large mineral fragments. Numerous microbreccia fragments are scattered throughout the matrix. Some masses of devitrified glass is also present in the matrix. A few partly devitrified glass shards are also present. The majority of the mineral fragments are pyroxene with a few olivine grains, some of which are in the microbreccia.



Width of image is approximately 3.5 cm, S-71-26634



14278,4