14274

PHYSICAL CHARACTERISTICS

Mass	Dimensions
15.18 g	3.0 x 2.5 x 1.5 cm

Sample 14274 is a light medium gray, blocky, tough, crystalline, polymict breccia.

SURFACE FEATURES

The surface is 50% smooth and 50% rough, with many glass-lined pits as large as 1 mm on rounded surfaces and very few on others. There are a few rounded vesicles 1 - 2 mm across and a few 0.1 to 0.2 mm irregularly shaped vugs making up less than 1% of the rock. The sample has numerous non-penetrative fractures.

PETROGRAPHIC DESCRIPTION

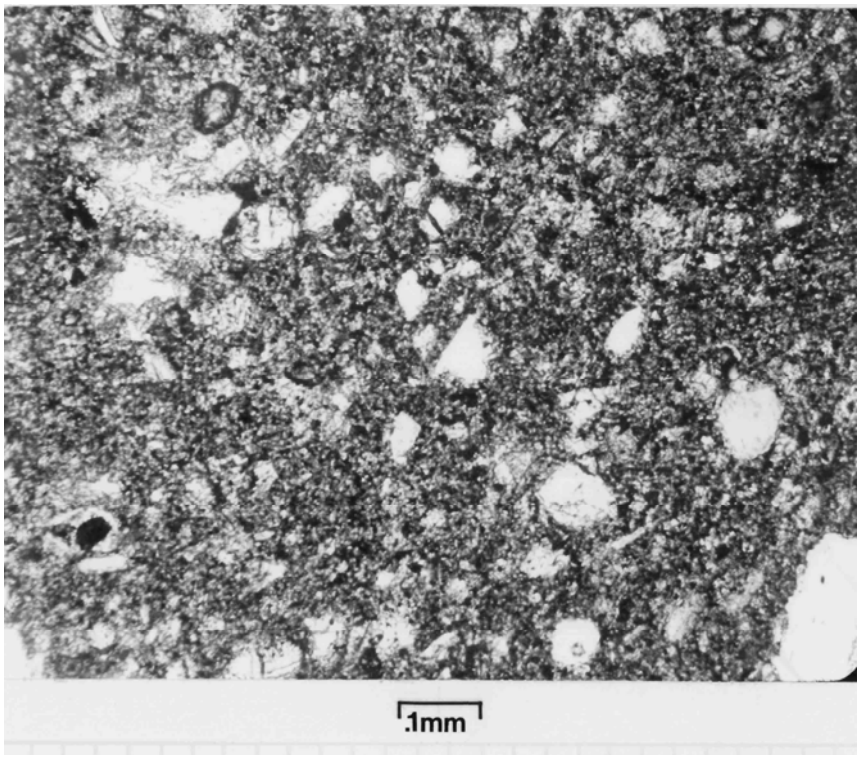
Sample 14274 is coherent and seriate in texture. It is composed of 85% light medium gray material with a sugary texture less than 0.1 mm in size; < 5% very light gray, subrounded, lithic clasts up to 2 mm in size; 10%white, subrounded, plagioclase fragment in various degrees of crushing up to 1 mm in size; less than 5% somewhat crushed, light green, subrounded material up to 1 mm in size; and 1 grain of a light brown, mineral fragment 0.9 mm in size which is subrounded and composed of crushed 0.1 mm grain. The lithic clasts are composed of a 50:50 mixture of fine-grained plagioclase and a light green material.

Thin section 14274,4 contains a seriate mixture of mineral fragments with no visible glass in the matrix. The only clast present is a large single crystal of plagioclase. There are numerous small, opaque grains in the matrix. There are scarce lithic fragments in the matrix. The only type represented is a granulitic mass of pyroxene and plagioclase. Minor devitrified glass is also present. The remainder of the large fragments are mostly pyroxene. There are minor spinel crystals also in the matrix.

DISCUSSION

Sample 14274 is listed as a crystalline rock by Wilshire and Jackson (1972) and as a crystalline matrix breccia (CMB) by Simonds et al. (1977).

Width of image is approximately 3.5 cm, S-71-26622



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