

14317

Breccia sample 14317 was collected at station H during the second EVA but has not been identified in the North Boulder Field photographs, so its lunar location is tentative, and lunar orientation, unknown. It was returned in weigh bag 1038.

PHYSICAL CHARACTERISTICS

Mass

16.1 g

Dimensions

3.0 x 2.5 x 1.5 cm

This rock is a medium gray, coherent breccia.

SURFACE FEATURES

The pitted surface has a density of approximately 20 pits per square centimeter. The pits vary from 0.1 mm to 0.2 mm in size.

PETROGRAPHIC DESCRIPTION

This rock consists of 90% matrix smaller than 1 mm and 10% clasts larger than 1 mm. The matrix is very fine grained and homogeneous. The clasts are very leucocratic and probably are composed of plagioclase.

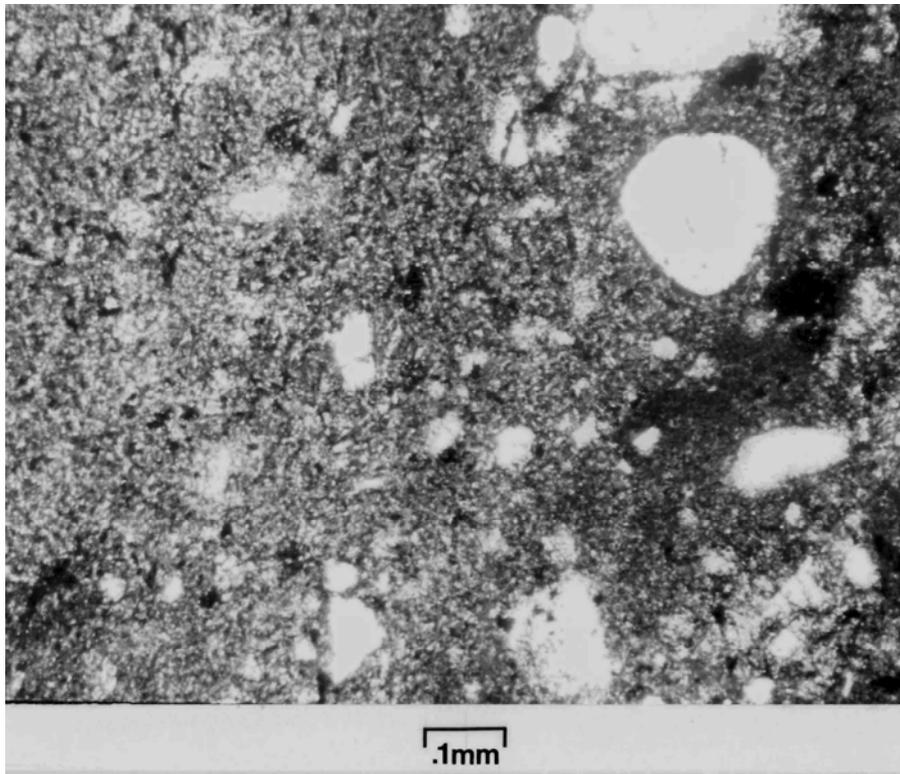
Examination of section 14317,4 reveals the sample to be breccia with approximately 10% "glassy" material in the matrix (< 1 mm). There are very few lithic fragments present in the section. Lithic fragments are all of a very fine grained microbreccia. There are also several larger masses of an opaque material present. Most of the fragments in the matrix are highly deformed pyroxene crystals, many of which are rounded. There are abundant small crystallites in the matrix. One small fragment of a basalt which has been shocked with highly deformed pyroxene and plagioclase was observed. There are a few small anhedral olivine crystals in some of the pyroxene crystals. A few glass masses are scattered throughout the section and many have dendritic crystals in them.

DISCUSSION

Sample 14317 was placed in the F₂ category of Wilshire and Jackson (1972).



Width of image is approximately 3.5 cm, S-71-32588



14317,4