

14076

Sample 14076 was collected at the bottom of the trench at Station G, 230 m ESE of LM and 50 m E of North Triplet rim crest.

The area, in general, is nearly level and lightly strewn with debris. The size of the debris ranges from the limit of resolution up to 60 cm. There is a moderate amount of subhedral 20 to 50 cm craters.

The sample was returned in documented bag 20N in ALSRC 1006.

PHYSICAL CHARACTERISTICS

Mass

2.00 g

Dimensions

2.5 x 1.0 x 1.0 cm

14076 is a medium light gray fragmental rock which shows two distinct matrix areas within the same rock fragment. The contact of the two matrices is very sharp. The fragment contains distinct clasts of a light bluish gray crystalline rock. The rock is tough and appears to be welded polymict.

SURFACE FEATURES

None of the surfaces show any zap pits. There are no cavities visible on the surface of the fragments.

There is one set of fractures parallel to the long axis of the rock. This fracture set transects an irregular sharp contact which crosses the rock parallel to the intermediate axis. There are three members each spaced approximately 3 mm apart. The fractures surfaces are planar.

PETROGRAPHIC DESCRIPTION

Sample 14076 is a small elongate, angular, medium gray fragment which is tapered at one end. The surface of the fragment is smooth, planar, and unpitted. The texture is inhomogeneous. The grain size of the matrix is very fine and that of the clasts range from 0.1 to 4 mm.

The rock is tough and shows two distinct matrices in the fragment which are separated by a sharp contact. One half of the rock has 30% visible clasts which consist of mostly elongate and bluish-gray clasts. The second half of the rock has only 5-10% clasts set in a medium brown matrix. This second matrix is slightly coarser than the gray matrix. Mineral fragments constitute 65% of the clasts present and 35% are of the leucocratic crystalline rock fragments.

The following types of clasts occur in the rock:

- 1) The feldspar-rich, bluish-gray leucocratic lithic fragments which measure up to 3 mm. Feldspar grains compose most of the fragments set in a thin white powdery matrix.
- 2) Black finely crystalline leucocratic lithic fragments.
- 3) Patches of coarser gray leucocratic clasts set in a lighter gray matrix.
- 4) Mineral fragments with relative percentages:
 - a) Equant, broken milky-white feldspar (20%)
 - b) Equant, colorless mineral (18%)
 - c) Dark, brownish-black mafic (60%)

d) Pistachio green olivine in broken crystal (1-3%)

5) Colorless to brown, botryoidal and slabby glass in trace amounts.

DISCUSSION

This rock fragment has not been allocated and no data is presently available. Wilshire and Jackson (1972) classified the fragment as an F₄ type of rock.



Width of image is approximately 3 cm, S-71-26064