

67755

67755 FINE-GRAINED OR GLASSY IMPACT MELT

3.53 g

INTRODUCTION: 67755 is a fairly coherent, pale-colored, polymict breccia with white patches (Fig. 1). Its matrix is fine-grained and is apparently impact melt. It is a rake sample collected halfway between the White Breccia boulders and House Rock, and lacks zap pits.

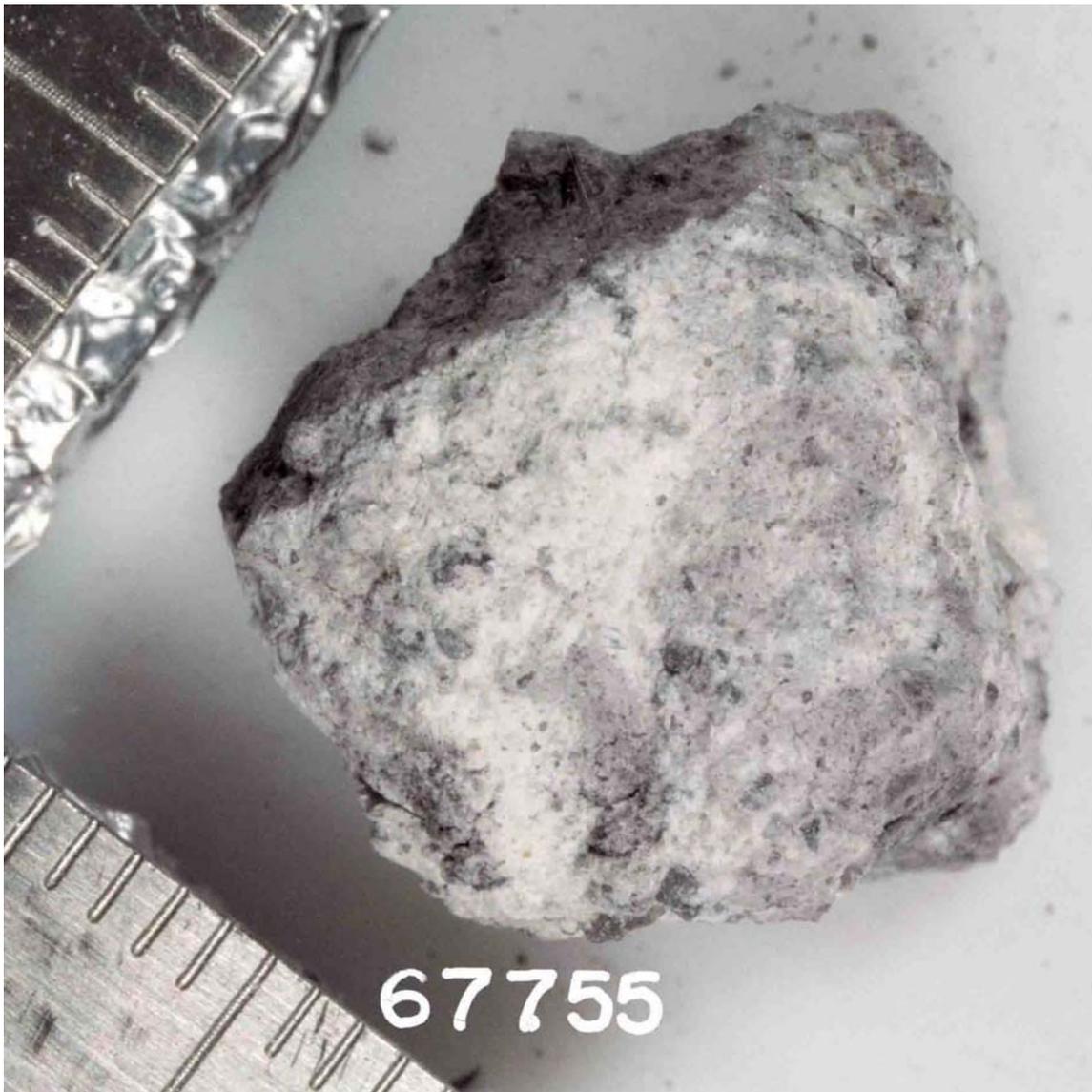


FIGURE 1. Smallest scale division in mm. S-72-49556.

PETROLOGY: Steele and Smith (1973) refer to 67755 as a “fine-grained; plagioclase rich” breccia with 50% matrix (defined as material less than 5 μm diameter). It is pale-brown and contains only scattered clasts greater than 200 μm diameter; the remainder is seriate down to submicroscopic (Fig. 2). Most of the fine-grained material is plagioclase bonded by a glassy or cryptocrystalline mortar with scattered sulfide and metal flecks. The clasts are almost all plagioclase, most unshocked but some heavily shocked. The boundaries of some of these clasts are ragged and indistinct.

PROCESSING AND SUBDIVISIONS: A single chip was removed to make thin section ,1.

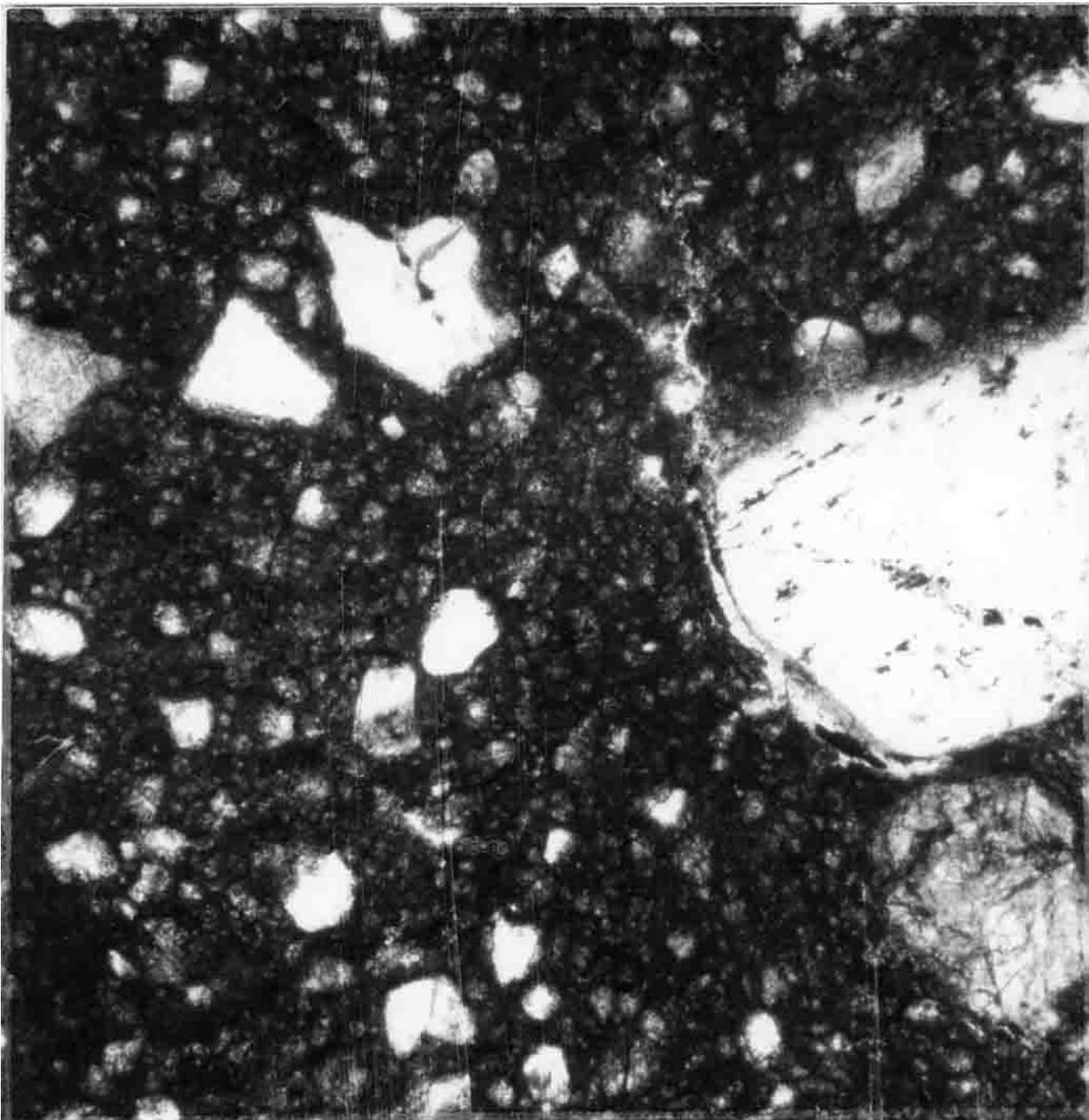


FIGURE 2. 67755,1. General view, ppl. Width 2 mm.