67769	POIKILITIC IMPACT MELT	3.05 g

<u>INTRODUCTION</u>: 67769 is a homogeneous, coherent and fine-grained poikilitic impact melt (Fig. 1). It is a rake sample collected halfway between the White Breccia boulders and House Rock and has zap pits.

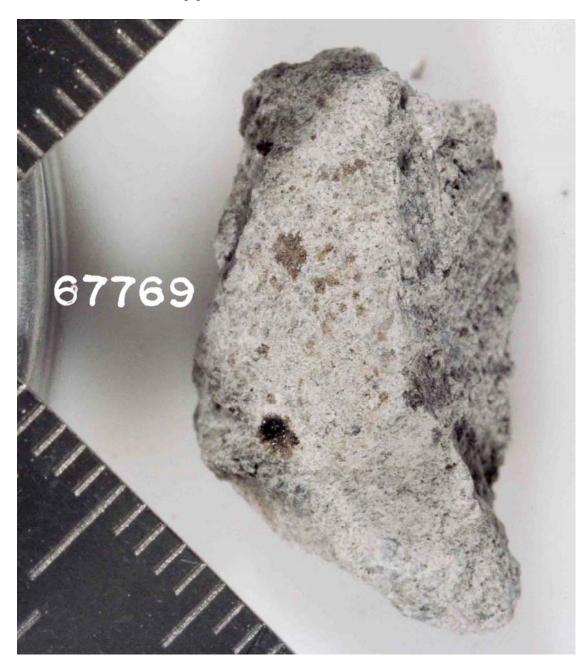


FIGURE 1. Smallest scale division in mm. S-72-51044.

<u>PETROLOGY</u>: Steele and Smith (1973) refer to 67769 as a "breccia with poikilitic pyroxene as matrix," and report microprobe data. It is fine-grained, homogeneous and contains few clasts (Fig. 2). The pyroxene forms indistinct oikocrysts up to 100 μ m in diameter which enclose 20-40 μ m long plagioclases. The pyroxenes have a narrow range of compositions (Fig. 3), while plagioclases range from An₉₅₋₈₅ with a wide range Fe, up to 0.8 wt% (Steele and Smith, 1973). Armalcolite (?) is present and Fe-metal blebs usually ~50 μ m in diameter are common. Glass is extremely rare. Most clasts, almost all less than 150 μ m in diameter, are plagioclase; a single lithic clast in thin section ,1 is 1 mm across, and is a feldspathic breccia.

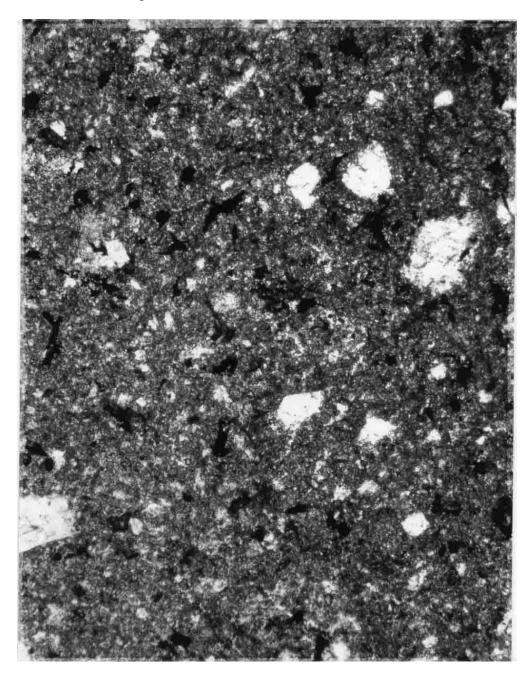


FIGURE 2. 67769,1. General view, ppl. Width 2 mm.

<u>PROCESSING AND SUBDIVISIONS</u>: A single chip was split into three smaller pieces, one of which was used to make thin section ,1.

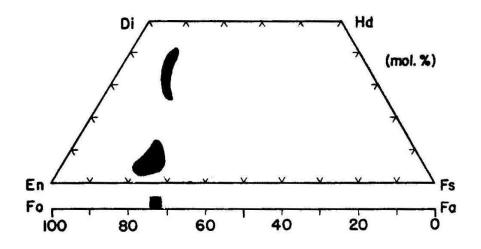


FIGURE 3. Pyroxene and olivine compositions, from Steele and Smith (1973).