67716 FINE-GRAINED IMPACT MELT 17.02 g

INTRODUCTION: 67716 is a polymict breccia (Fig. 1) with a fine-grained impact melt matrix. It is coherent, irregularly shaped, and is partly covered with white material. It is a rake sample collected halfway between the White Breccia boulders and House Rock, and has zap pits on one corner.

FIGURE 1. Smallest scale division in mm. S-72-49547.

PETROLOGY: 67716 has a fine-grained matrix containing patches of oriented plagioclase laths (Fig. 2) which are generally about 50 μm long. The amount of mafic material in the melt is very small. Much of the fine-grained material is clastic, particularly plagioclase, and embedded in the melt. About 5-10% of the thin section (,1) consists of angular to rounded clasts of plagioclase larger than 100 μm in diameter. One pink spinel grain (~100 μm) is present.

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

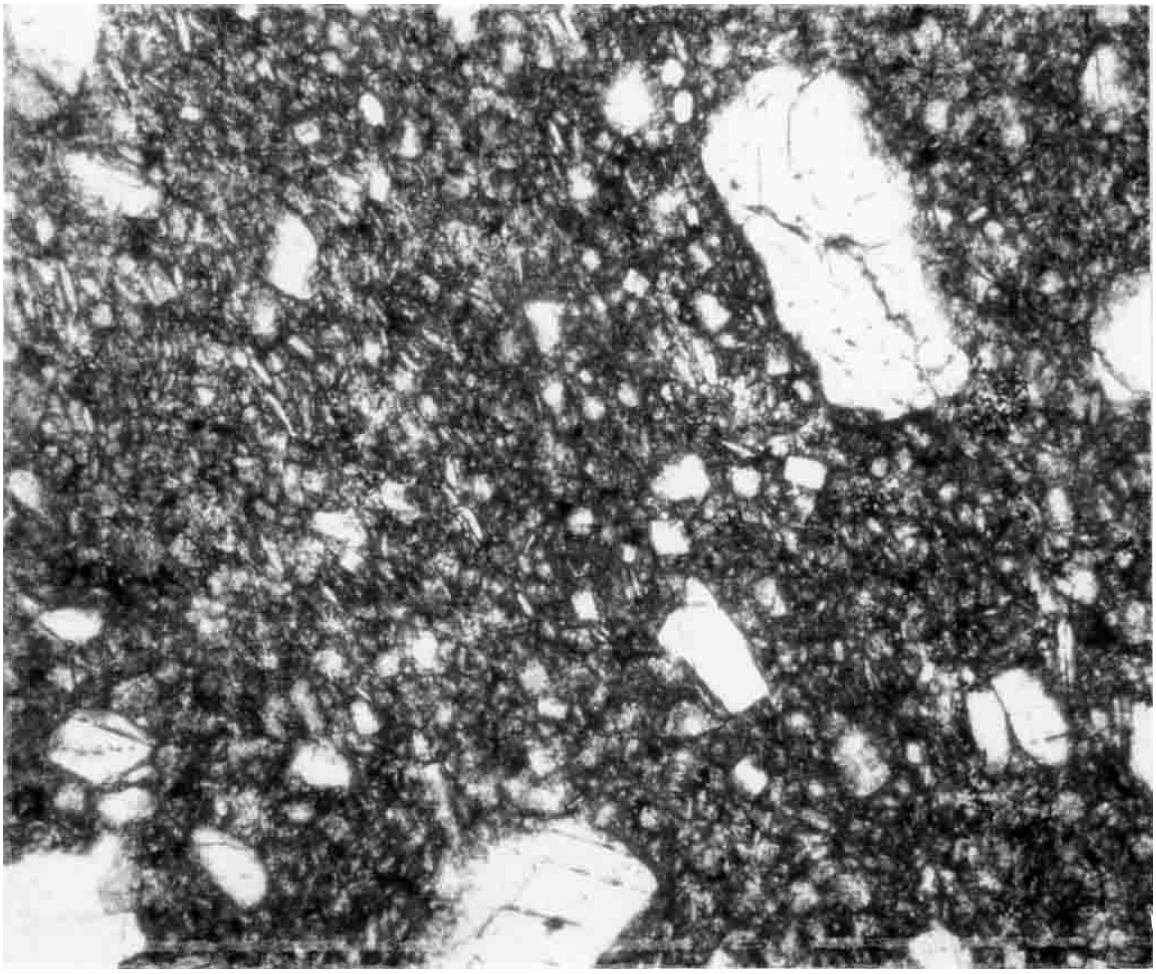

FIGURE 2. 67716,1. General view, ppl. Width 2 mm.