67946 VARIOLITIC IMPACT MELT OR DEVITRIFIED GLASS 3.20 g

INTRODUCTION: 67946 is a coherent, medium dark gray, impact melt (Fig. 1) which is vesicular and either devitrified or crystallized into variolites. It was collected from the regolith at the east-west split of House and Outhouse Rocks (see 67915, Fig. 1). Its orientation is unknown and it has a few zap pits on one face.

FIGURE 1. S-72-38977.

PETROLOGY: Spherulitic or variolitic structures are visible macroscopically. In thin sections they can be seen as bundles up to 1 mm across (Fig. 2), embedded in a glassy or devitrified groundmass. The variolites are intergrown plagioclase and subordinate mafic minerals. One lithic clast in ,13 and ,14 is a pure plagioclase breccia. The vesicles are perfectly spherical.

PROCESSING AND SUBDIVISIONS: ,2, a located chip, was made into thin sections ,13 and ,14. Most of 67946 exists as ,0 (2.46 g), but a documented chip ,1 (0,66 g) also exists.

FIGURE 2. 67946,14, ppl. Width 3 mm.