68519 FINE-GRAINED BASALTIC IMPACT MELT, PARTLY GLASS-COATED 10.56 g

INTRODUCTION: 68519 is a coherent, fine-grained, intergranular to poikilitic impact melt which has a partial glass coat (Fig. 1). It is subangular and dark gray. It is a rake sample and has many zap pits.

FIGURE 1. Smallest scale division in mm. S-72-49569.

PETROLOGY: 68519 is a clast-rich impact melt (Fig. 2). The matrix consists of about 75% plagioclase laths, less than 150 μm, with interstitial mafic minerals which in places poikilitically enclose the plagioclases. Opaque phases are small and not well-developed and include armalcolite (?), Fe-metal, and troilite. The angular clasts (Fig. 2) are all strained plagioclases and comprise 10-15% of the total rock.

PROCESSING AND SUBDIVISIONS: A few small pieces have been chipped off. ,1, consisting of many chips which are mainly basalt, was allocated for geochronological (Ar-Ar) studies. A single chip was used to make thin section ,2 and lacks the glass coat.

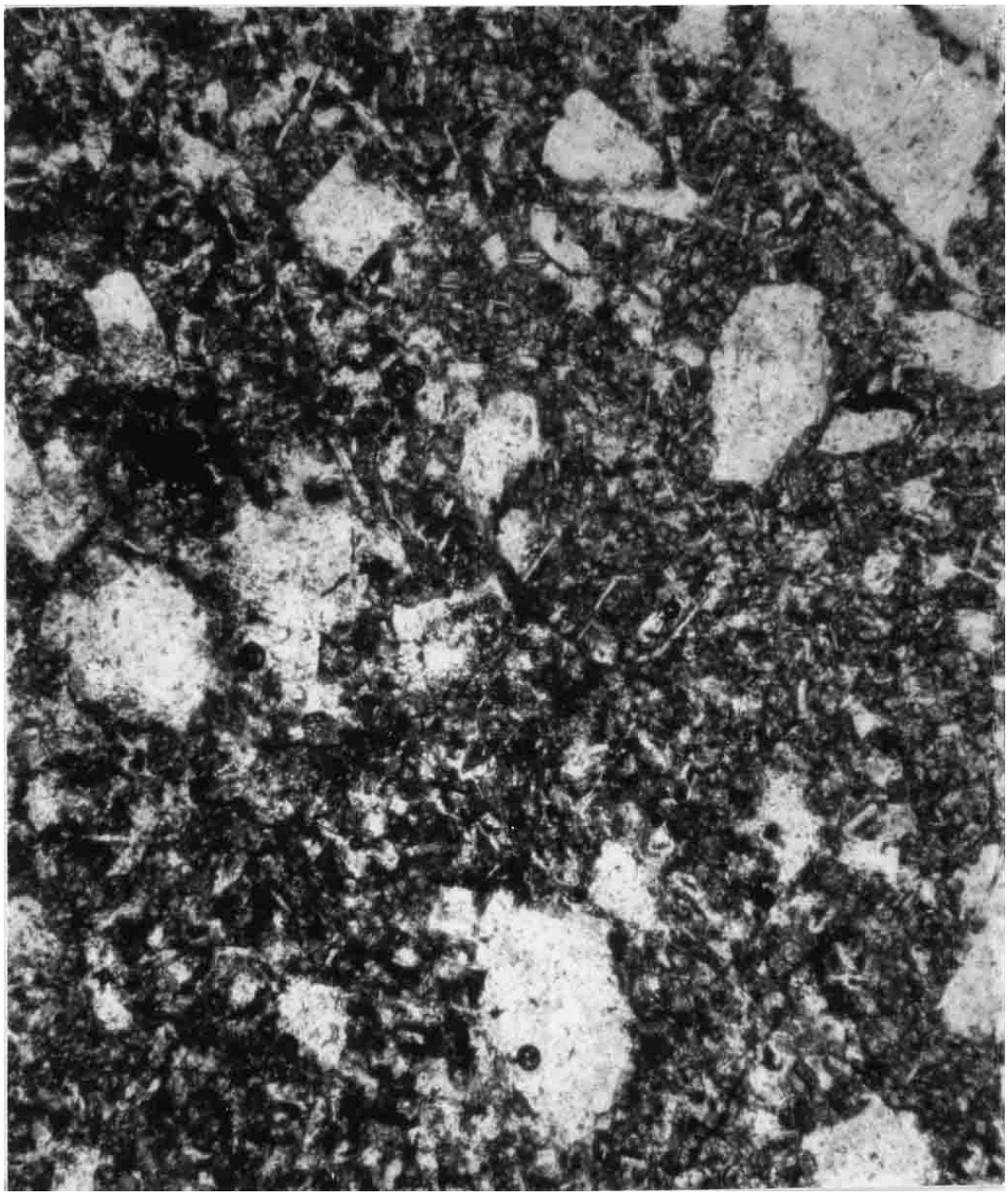

FIGURE 2. 68519,2, ppl. Width 2 mm.