

68536 FINE-GRAINED BASALTIC IMPACT MELT 1.85 g
AND VESICULAR GLASS

INTRODUCTION: 68536 consists of fine-grained, light gray, basaltic impact melt intruded by dark vesicular glass (Fig. 1). It is a rake sample and lacks zap pits.



FIGURE 1. Smallest scale division in mm. S-72-51253.

PETROLOGY: Steele and Smith {1973) refer to 68536 as “partially devitrified glass.” It consists of fine-grained, brown, basaltic impact intruded by clear glass (Fig. 2). The impact melt has plagioclase laths 20-30 μm long (~65%), similarly-sized intergranular mafic minerals (~25%), and interstitial glass (~10%). Fe-metal and other tiny opaque phases are present, as well as a few shocked plagioclase clasts. The glass is clear to brown, partly flow-banded, and carries maskelynite fragments, opaque aphanitic lithic materials, and other debris.

PROCESSING AND SUBDIVISIONS: A single fragment was taken to make thin section ,1.

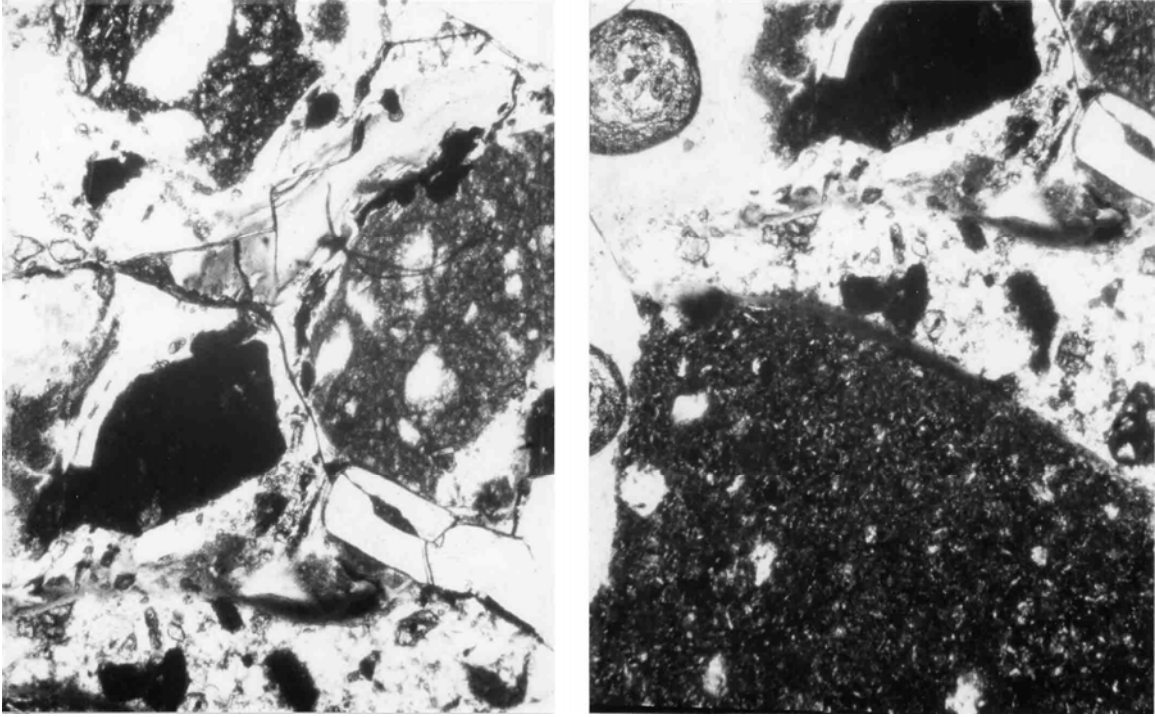


FIGURE 2. 68536,1. General views, ppl. Widths 2 mm.