

INTRODUCTION: 63527 is a basaltic impact melt which is more mafic than most (about 50% mafic minerals) and has a variable texture. It is dark, coherent, and fine-grained (Fig. 1). It is a rake sample and has zap pits.

PETROLOGY: 63527 is a fine-grained basaltic impact melt with a patchy texture (Fig. 2) ranging from variolitic through subophitic through poikilitic. In places skeletal olivine phenocrysts (up to a few hundred microns long) are present. The sample is unusually mafic for basaltic impact melts—about 50% mafic minerals. Some interstitial glass or silica, rounded metal blebs, and plagioclase clasts are also present. A small part of thin section ,12 is a fragmental breccia, which appears to be mainly ground-up basaltic impact melt rather than poikilitic breccia.

PROCESSING AND SUBDIVISIONS: Two adjacent small chips (,6 and ,7) were removed (Fig. 1) and ,6 (which appeared to be mainly matrix but partly clast) was made into thin sections ,9 - ,12.

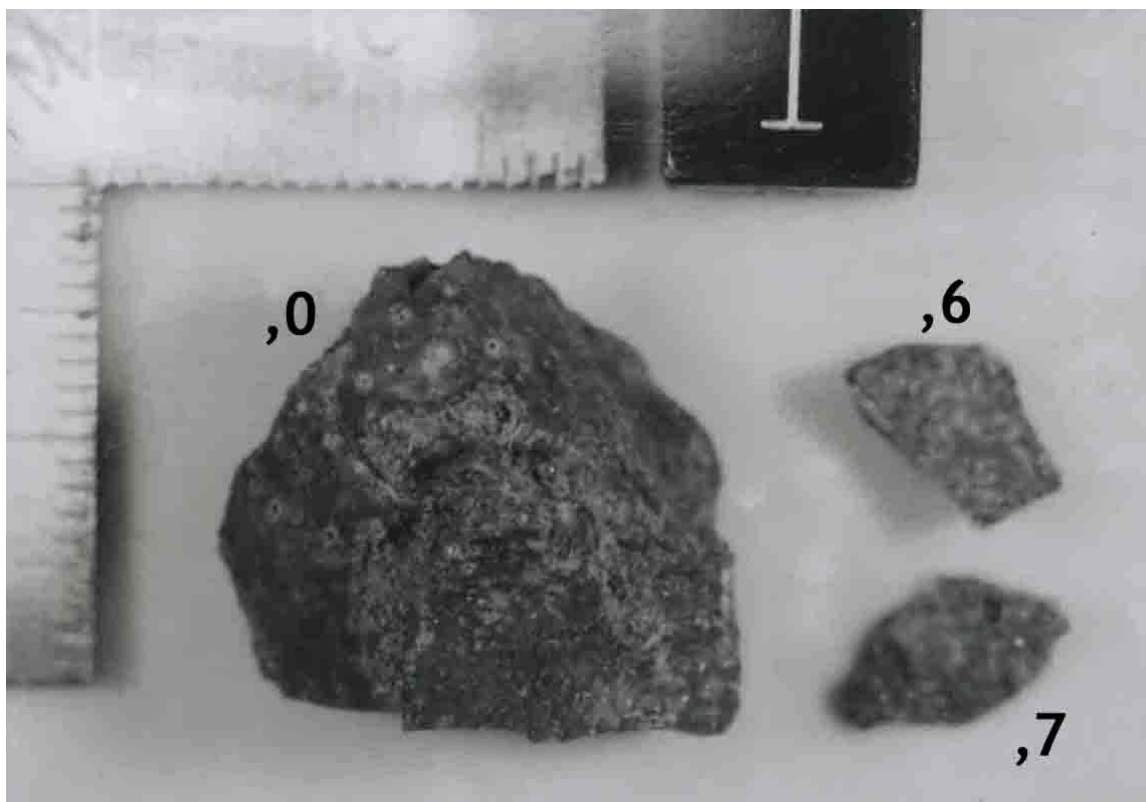


FIGURE 1. Smallest scale division in mm.

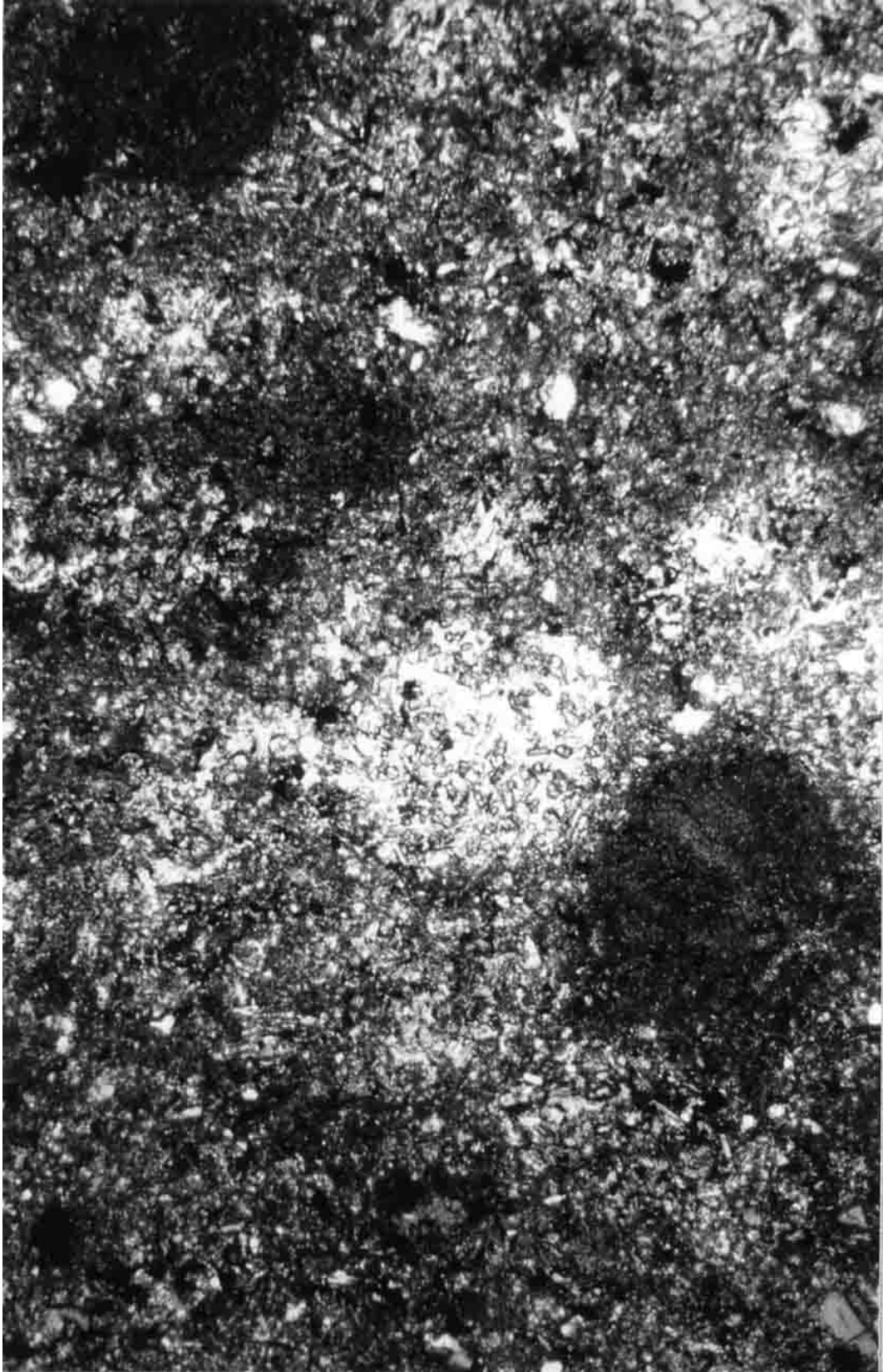


FIGURE 2. 63527,11, general view, ppl. Width 1.5 mm.