63587 FINE-GRAINED POIKILITIC IMPACT MELT 20.5 g

INTRODUCTION: 63587 is a medium gray, vesicular and coherent rock (Fig. 1). It is a fine-grained impact melt with a poikilitic texture and numerous clasts. It is a rake sample and has many zap pits.

PETROLOGY: 63587 is a vesicular impact melt with abundant mineral and lithic clasts (Fig. 2). The melt consists of 200-300 μm oikocrysts (pigeonite?, some augite) enclosing plagioclase crystals, with interoikocryst areas containing angular and lathy ilmenites. Fe-metal and troilite are also present.

Most of the clasts are plagioclases, some quite shocked. There is a wide variety of lithic clasts including cataclastic anorthosite, granoblastic feldspathic impactites, basaltic impact melts, and granoblastic dunite (one fragment, ~250 μm diameter).

PROCESSING AND SUBDIVISIONS: Three matrix chips (,2; Fig. 1) were potted together and thin sections ,4 and ,5 cut from them.

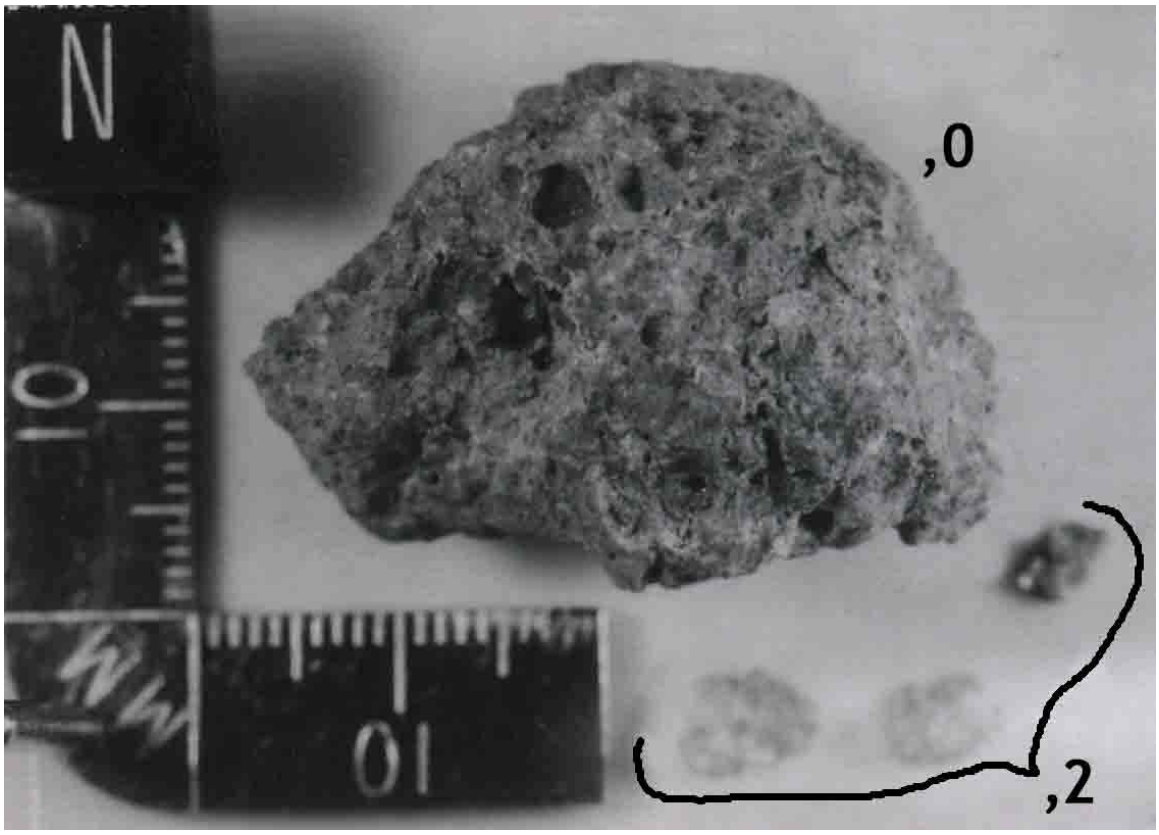

FIGURE 1.

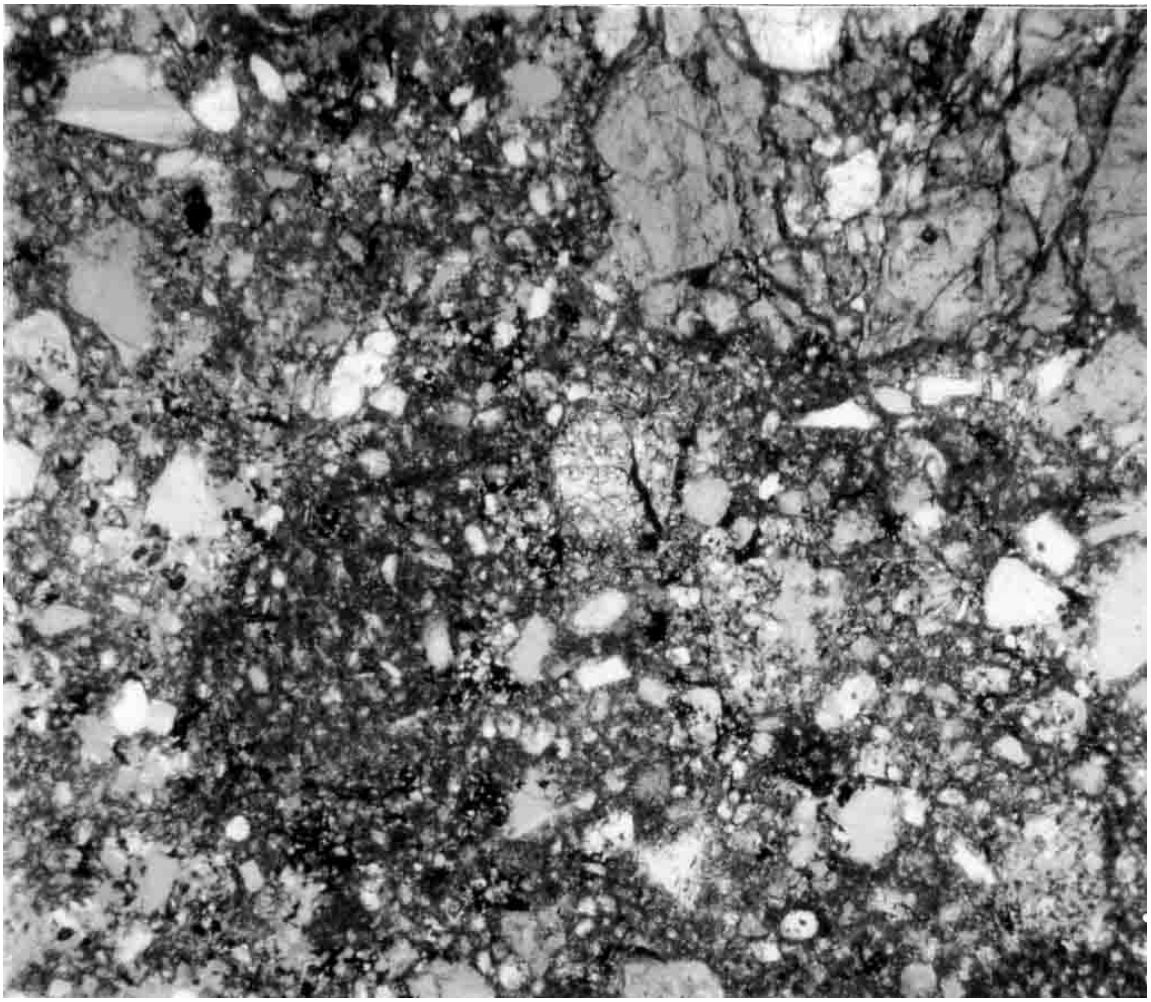

FIGURE 2. 63587,4, general view, ppl. Width 2 mm.