

**INTRODUCTION:** 63578 is a fine-grained, coherent polymict breccia (Fig. 1) which appears to be bonded with either glass or a fine-grained melt. It is angular with flat sides. It is a rake sample with zap pits.



FIGURE 1. Smallest scale division in mm. S-72-55400.

**PETROLOGY:** Warner et al. (1973) classify 63578 as a slightly metamorphosed glassy breccia. It is brownish, fine-grained polymict breccia with conspicuous mineral clasts, mainly plagioclase (Fig. 2). The matrix is heterogeneous with globular aggregates separated by pale-colored bands. Fine-grained melt or glassy material appears to bind the mineral fragments together.

**PHYSICAL PROPERTIES:** Pearce and Simonds (1974) report magnetic parameters for 63578, which they refer to as metamorphosed. The saturation remanence to saturation magnetization ratio is 0.0044.  $\text{Fe}^0/\text{Fe}^{2+}$  is 0.0134 and total  $\text{Fe}^0$  is 0.050 wt%.

PROCESSING AND SUBDIVISIONS: Part of a representative chip (,1) was made into thin section ,4. Two chips (,3) shown in Figure 1 were allocated for chemical analysis. The magnetic studies were done on the potted butt of ,1.

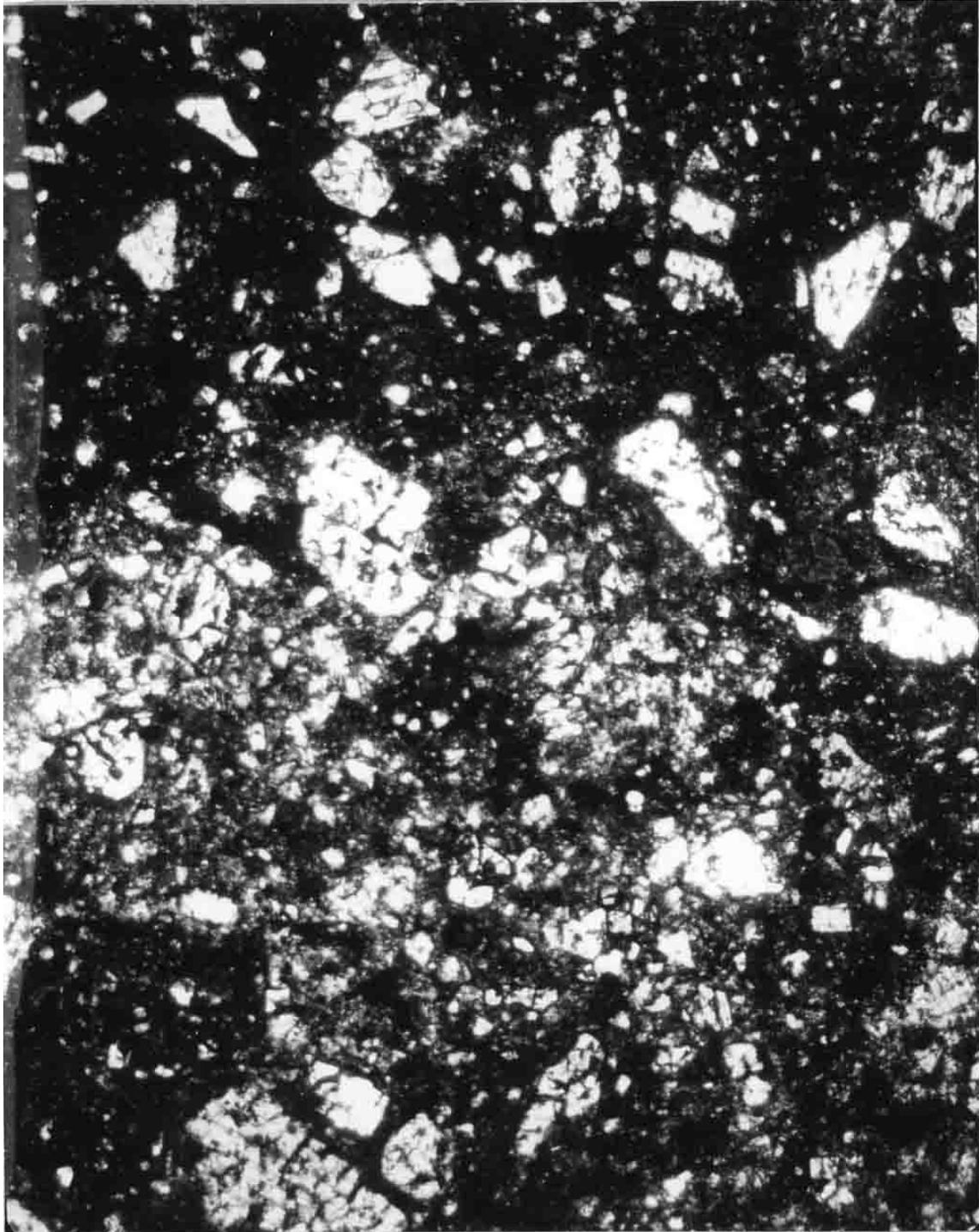


FIGURE 2. 63578,4, general view, xpl. Width 2 mm.