

**INTRODUCTION:** 63509 is a medium dark gray, homogeneous and fine-grained impact melt (Fig. 1). It was taken from a regolith sample and has a few zap pits on all surfaces.

**PETROLOGY:** 63509 is an extremely fine-grained impact melt (Fig. 2). A mortar-like matrix encloses plagioclase clasts which range down to extremely small sizes. The matrix is plagioclase-rich, contains ilmenite laths, and apparently lacks glass. In places an orientation or flow is apparent. The clasts are rounded and some are ragged. Thin sections ,5 and ,6 contain (atypically) schlieren of cataclastic anorthosite (Fig. 2).

**PROCESSING AND SUBDIVISIONS:** A single chip ,1, representative except for a few white streaks, was taken to make thin sections ,5 and ,6.



FIGURE 1. S-72-38968.

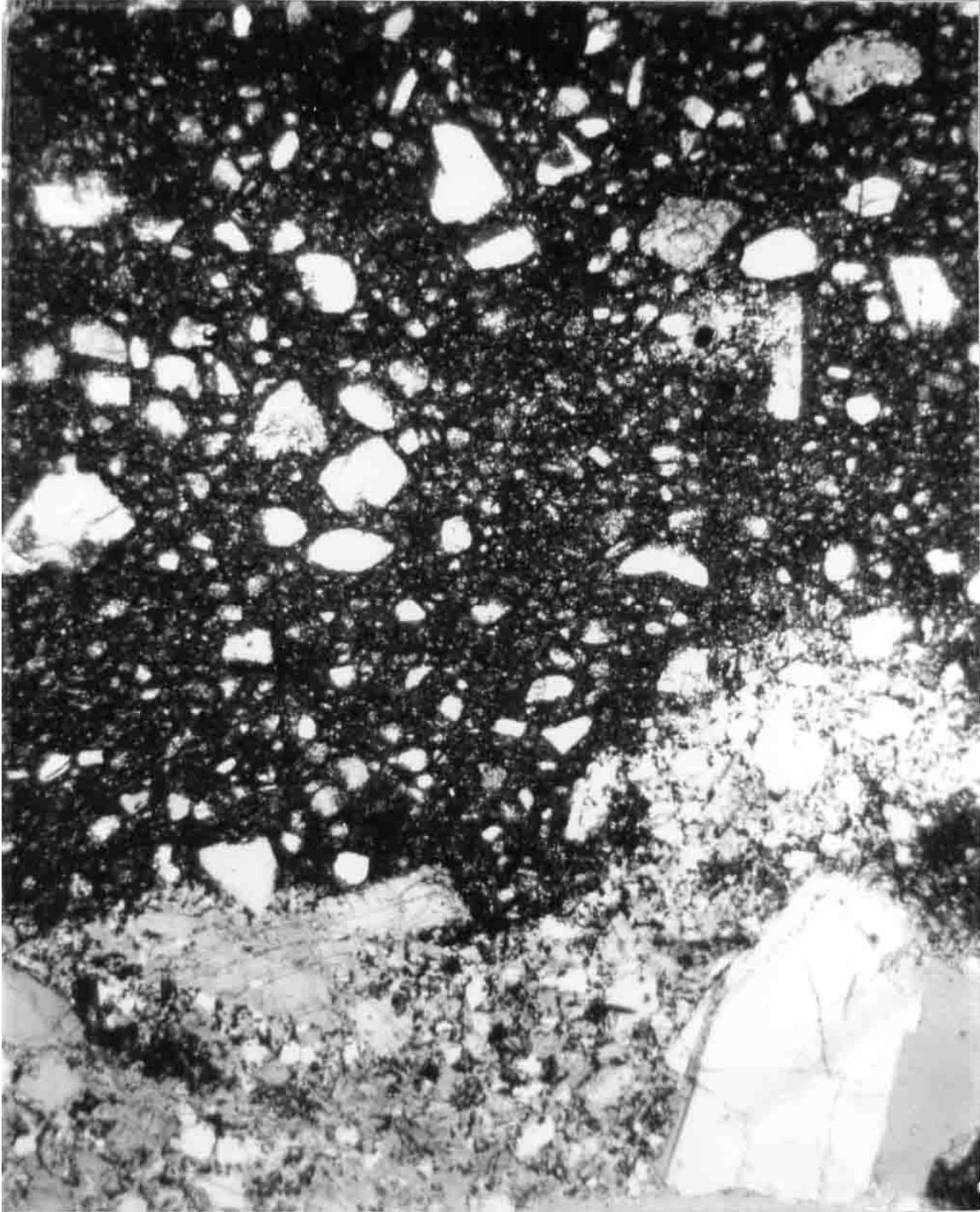


FIGURE 2. 63509,5, general view, ppl. Width 2 mm.