

INTRODUCTION: 67757 is a dark gray, coherent, fine-grained impact melt (Fig. 1) with a texture that varies from subophitic to poikilitic. It is a rake sample collected halfway between the White Breccia boulders and House Rock, and has a few zap pits on one side.



FIGURE 1. Smallest scale division in mm. S-72-49568.

PETROLOGY: 67757 is an impact melt with fine-grained subophitic and poikilitic textures (Fig. 2). The poikilitic areas have a greater proportion of mafic material than the subophitic areas. Overall the rock has about 60% plagioclase. Some oikocrysts (mafic minerals) are ~200 μm across, but where the textures grade into subophitic the oikocrysts are much smaller. Plagioclase laths are rarely longer than 30 μm . Scattered ilmenite also forms stubby laths 10-15 μm long. The clasts are mainly shocked plagioclase, but one clast of basaltic impact melt and one mafic vitrophyre are present in the thin sections (,1 and ,2).

The rock is somewhat sheared and broken up, with the intrusion of red-brown to black glass veins (Fig. 2).

PROCESSING AND SUBDIVISIONS: Two thin sections ,1 and ,2 were cut from a single chip.

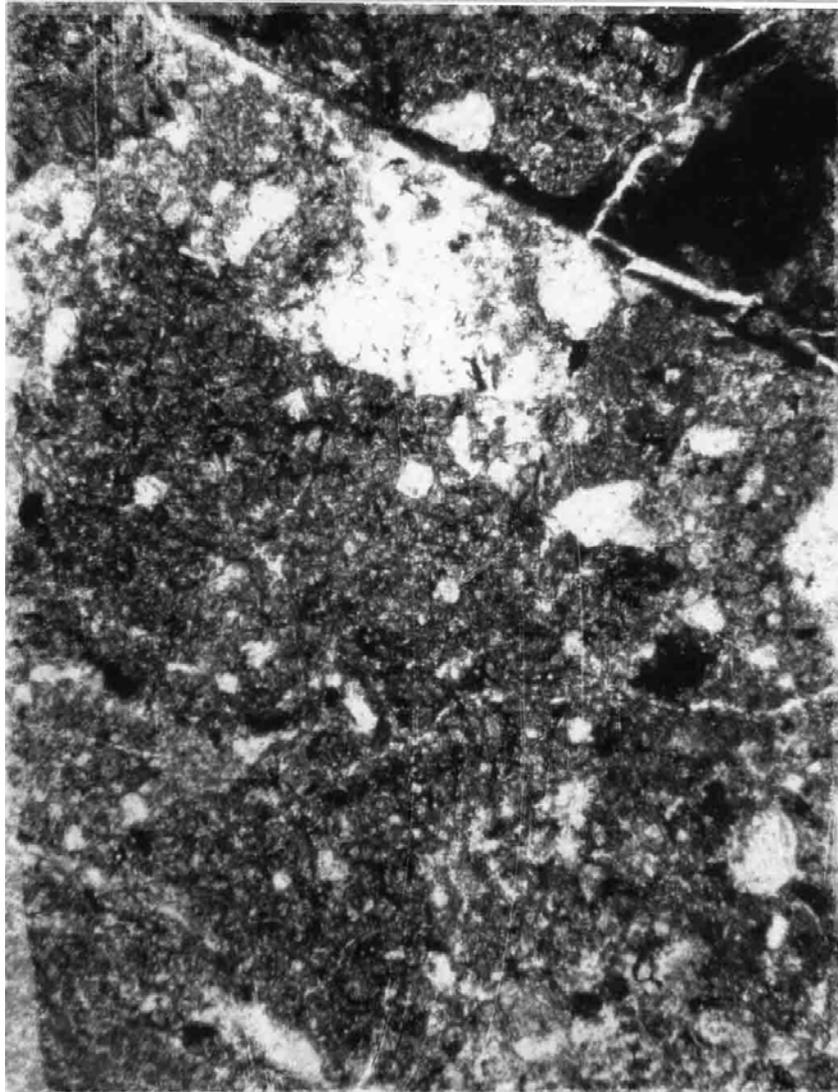


FIGURE 2. 67757,1. General view, ppl. Width 2 mm.