<u>INTRODUCTION</u>: 65757 is a medium gray, coherent breccia with several anorthositic clasts embedded in a matrix of very fine-grained impact melt (Fig. 1). Dark, vesicular glass coats ~10% of the surface of this rake sample, which has a few zap pits.

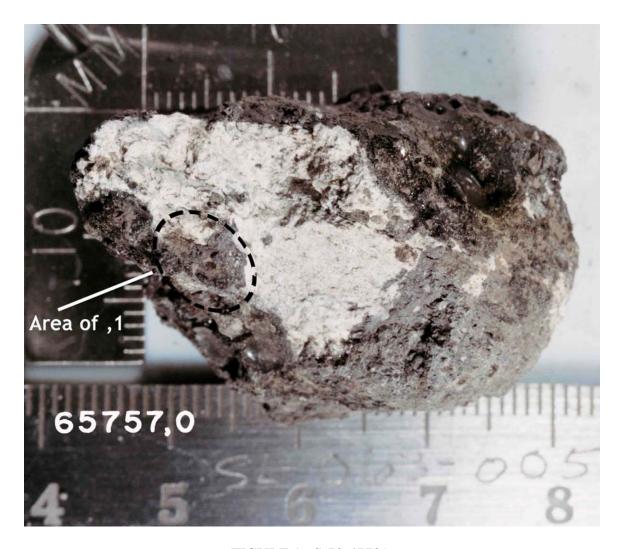


FIGURE 1. S-72-47701.

<u>PETROLOGY</u>: Warner et al. (1976b) provide a petrographic description of the matrix and the large anorthosite clast seen in Figure 1. Dowty et al. (1974a) include this clast in a discussion of ferroan anorthosites.

The large white clast is a cataclastic anorthosite with moderately shocked clasts of plagioclase in a granulated matrix (Fig. 2). Pyroxene is the only mafic mineral present. Mineral compositions are shown in Figure 3 and tabulated by Dowty et al. (1976). Accessory phases include spinel and Fe-metal (5.3-7.1% Ni, 0.45-0.48% Co). The metal compositions are within the "meteoritic field" and indicate that the clast is probably not chemically pristine.

The matrix of 65757 consists of laths and tablets of plagioclase in a very fine grained to glassy impact melt (Fig. 2). Angular clasts of plagioclase, and spinel crystals (up to 0.2 mm) are scattered through the glass.

<u>CHEMISTRY</u>: A defocussed electron beam analysis (DBA) of the cataclastic anorthosite clast is presented by Dowty et al. (1974a) and reproduced by Warner et al. (1976b) and here as Table 1.

<u>PROCESSING AND SUBDIVISIONS</u>: In 1973 a single chip was removed (,1) and allocated for Keil for petrography (Fig. 1).

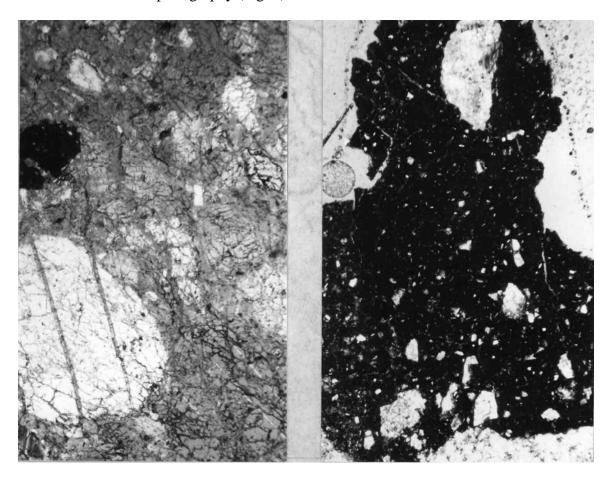


FIGURE 2. 65757,3. Partly xpl. a) Anorthosite clast. Width 2 mm. b) Matrix impact melt. Width 2 mm.

TABLE 1. Chemistry of 65757 anorthosite clast (DBA, normalized to 100%)

SiO ₂	44.4
TiO2	0.01
A1203	35.1
Fe0	0.50
Mg0	0.39
Ca0	19.1
Na ₂ 0	0.42
κ ₂ ο̄	0.02
P205	0.06

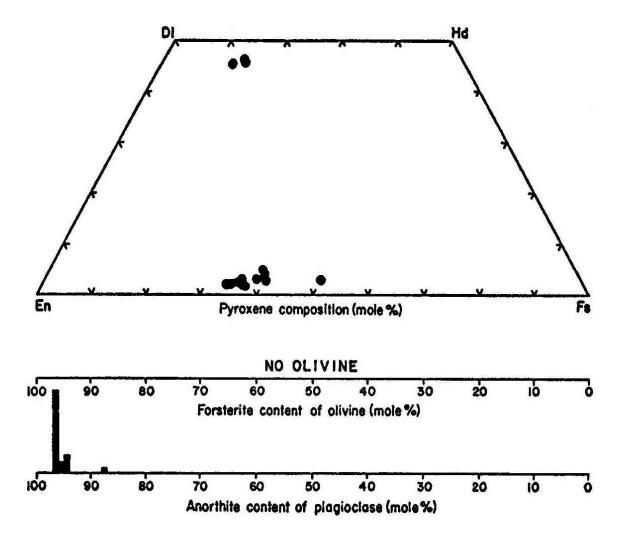


FIGURE 3. Mineral compositions; from R. Warner et al.(1976b).