

76559

Poikilitic Impact Melt Breccia
0.747 g, 1 x 1 x 0.75 cm**INTRODUCTION**

Sample 76559 was collected as a rake sample from the soil at Station 6 (Phinney et al., 1974). There is a black glass splash and some soil breccia attached (Fig. 1).

PETROGRAPHY

Sample 76559 is light grey impact melt rock with a poikilitic matrix. Pyroxene and ilmenite oikocrysts enclose anorthite grains (Fig. 2). The sample is completely crystalline.

WHOLE-ROCK CHEMISTRY

Simonds and Warner (1981) point out that this poikilitic breccia has less Fe and more Mg than the boulder at Station 6 (Table 1). They speculate that it may be similar to the large breccia sample 76055.

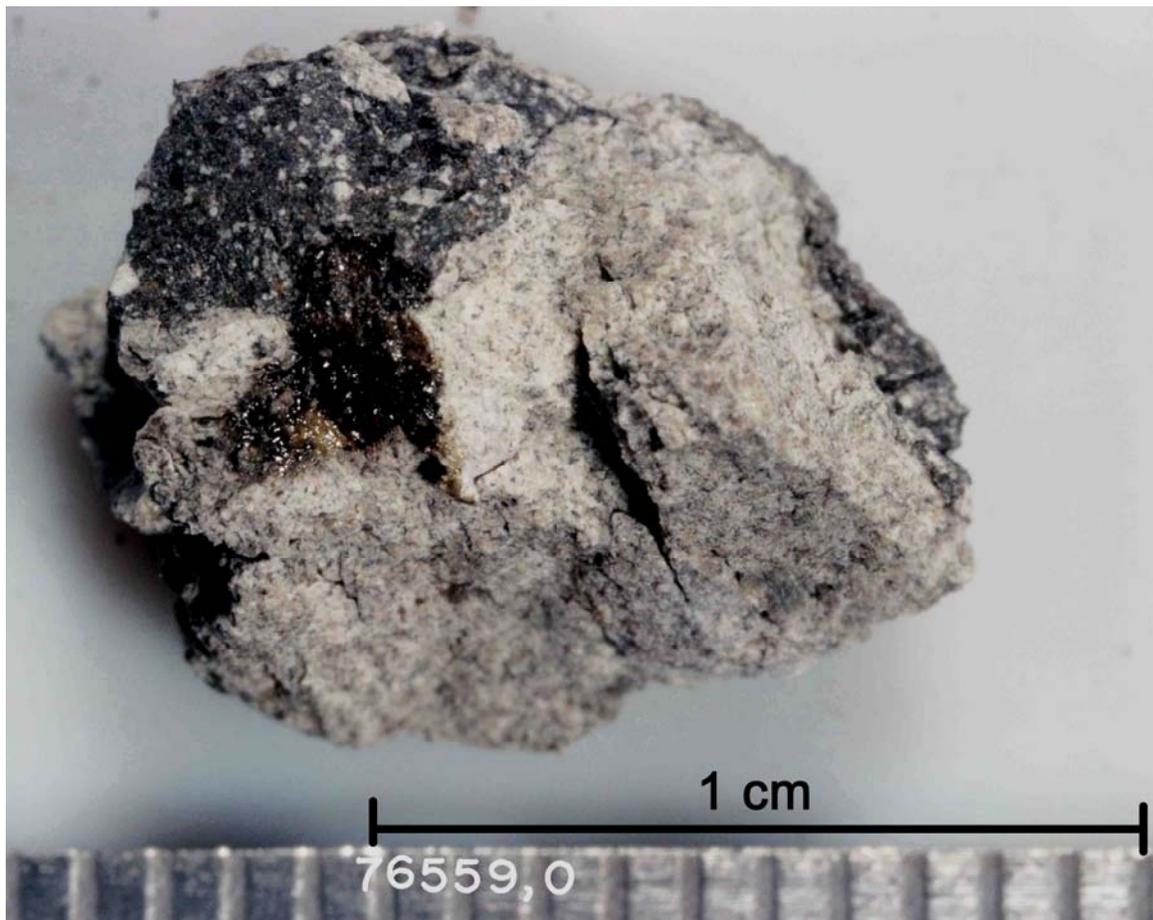


Figure 1: Photograph of 76559. Scale bar is marked in mm. S73-19629.

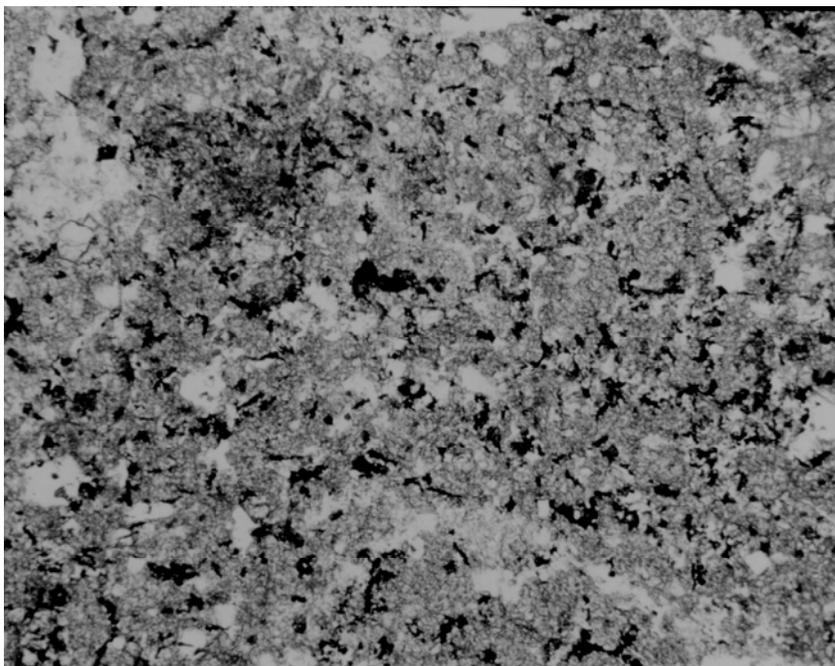


Figure 2: Photomicrograph of thin section 76559,7, showing well-developed poikilitic matrix.
Field of view is 2 x 3 mm.

Table 1: Whole-rock chemistry of 76559.

From Simonds and Warner (1981).

(Cautionary note: These preliminary analyses were made by fused bead electron microprobe analyses, R. Brown, analyst.)

Split Technique	,2 EMP
SiO ₂ (wt%)	46.47
TiO ₂	1.49
Al ₂ O ₃	17.53
Cr ₂ O ₃	0.18
FeO	8.36
MnO	
MgO	12.98
CaO	10.78
Na ₂ O	0.64
K ₂ O	0.27