

**76577**

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**Poikilitic Impact Melt Breccia**  
**13.54 g, 2.5 x 2 x 2 cm****INTRODUCTION**

Sample 76577 was collected as a rake sample from the soil at Station 6 (Phinney et al., 1974) (Fig. 1).

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**PETROGRAPHY**

Sample 76577 has a nicely developed poikilitic texture (Fig. 2) with orthopyroxene and ilmenite oikocrysts surrounding relict angular clasts of anorthite plagioclase. It has small rounded vesicles (1 mm).

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**WHOLE-ROCK CHEMISTRY**

Simonds and Warner (1981) point out that this poikilitic breccia has less FeO and more MgO than the boulder at Station 6. They speculate that it may be similar to the lithology represented by large sample 76055.



Figure 1: Photograph of 76577. Scale bar is marked in mm. S73-19645.

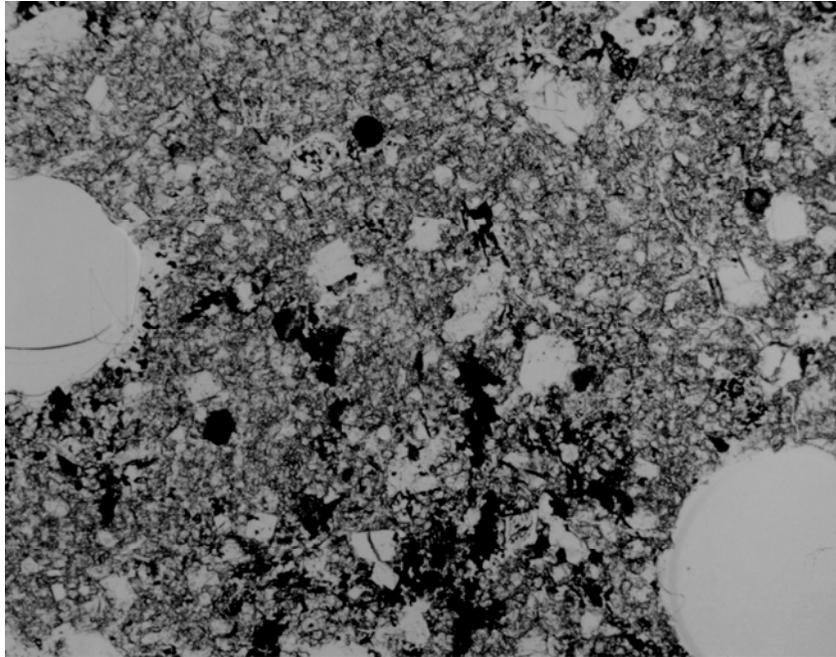


Figure 2: Photomicrograph of thin section 76577,7, showing mm-sized vesicles and poikilitic matrix texture. Field of view is 2 x 3 mm.

**Table 1: Whole-rock chemistry of 76577.**

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 <sub>2</sub> (wt%)	46.34
TiO <sub>2</sub>	1.49
Al <sub>2</sub> O <sub>3</sub>	18.07
Cr <sub>2</sub> O <sub>3</sub>	0.17
FeO	8.02
MnO	
MgO	11.94
CaO	11.09
Na <sub>2</sub> O	0.8
K <sub>2</sub> O	0.33