

**76569****Aphanitic Impact Melt Breccia****4.207 g, 2 x 1.5 x 1 cm****INTRODUCTION**

Sample 76569 was collected as a rake sample from the soil at Station 6 (Phinney et al., 1974).

**PETROGRAPHY**

Sample 76569 is a coherent, dark grey impact melt rock. It has zap pits on all surfaces (Fig. 1). The matrix of this sample is crystalline, but very fine grained, so that the sample is aphanitic. Mineral and lithic clasts in the matrix are rounded (Fig. 2).

**WHOLE-ROCK CHEMISTRY**

Simonds and Warner (1981) report a preliminary analysis of 76569 (Table 1).



Figure 1: Photograph of 76569. Scale bar is marked in mm. S73-19635.

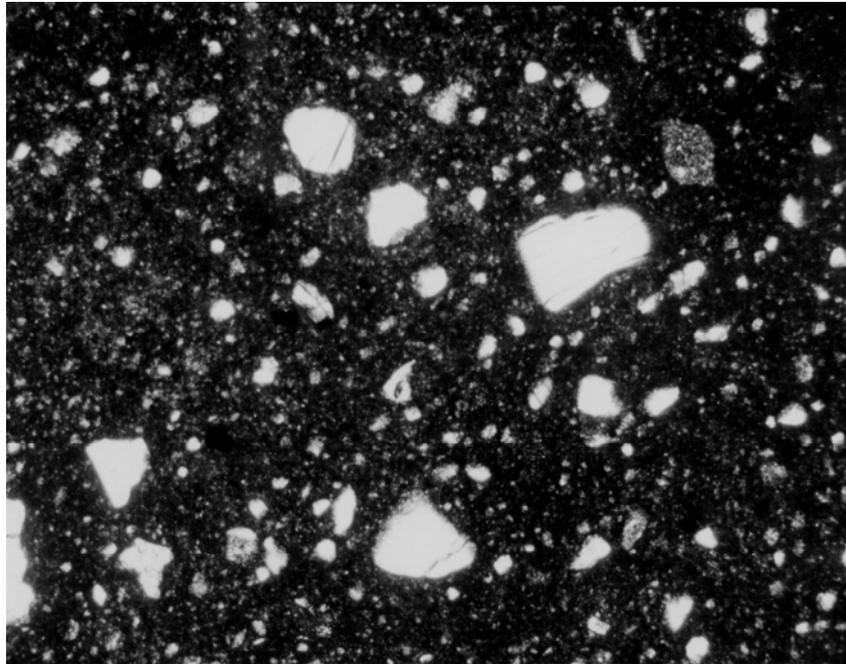


Figure 2: Photomicrograph of thin section 76569,8. Field of view is 2 x 3 mm.

**Table 1: Whole-rock chemistry of 76569.**

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%)	47.79
TiO <sub>2</sub>	1.23
Al <sub>2</sub> O <sub>3</sub>	17.34
Cr <sub>2</sub> O <sub>3</sub>	0.23
FeO	8.66
MnO	
MgO	11.42
CaO	10.73
Na <sub>2</sub> O	0.68
K <sub>2</sub> O	0.36