

**67718** – 41 grams  
**67719** – 2.1 grams  
Impact Melt Breccia



Figure 1: Photo of 67718. Scale in mm. S72-51242.

### **Introduction**

Thirty-two rake samples were collected near House Rock on the rim of North Ray Crater – see section on 67701.

### **Petrography**

67718 and 67719 are two coherent, fine-grained impact melt rocks, but there is not enough data to tell if they are alike. Both rocklets have abundant clasts of plagioclase set in an aphanitic matrix (figures 3 and 4).

### **Chemistry**

None

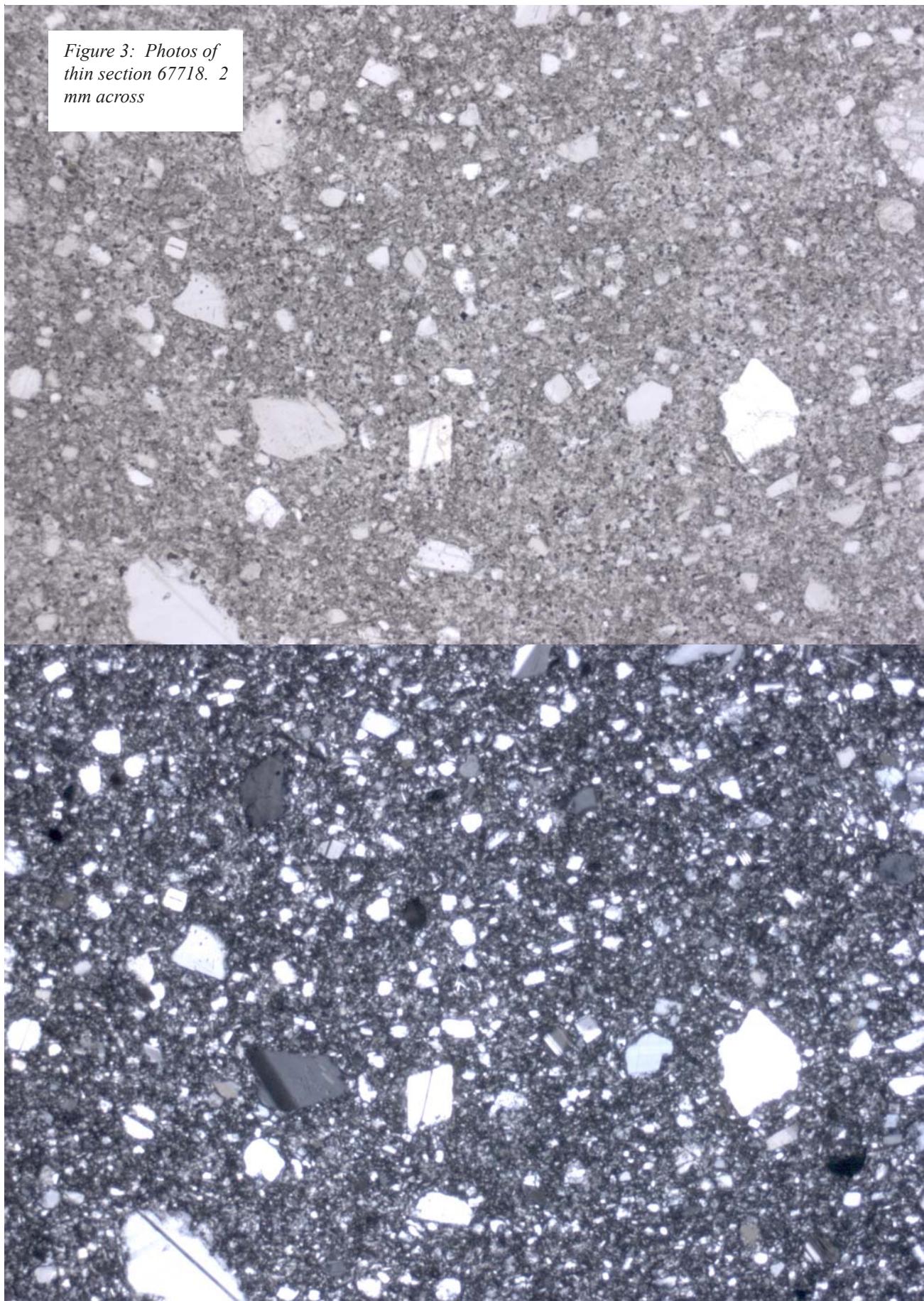
### **Radiogenic age dating**

Not

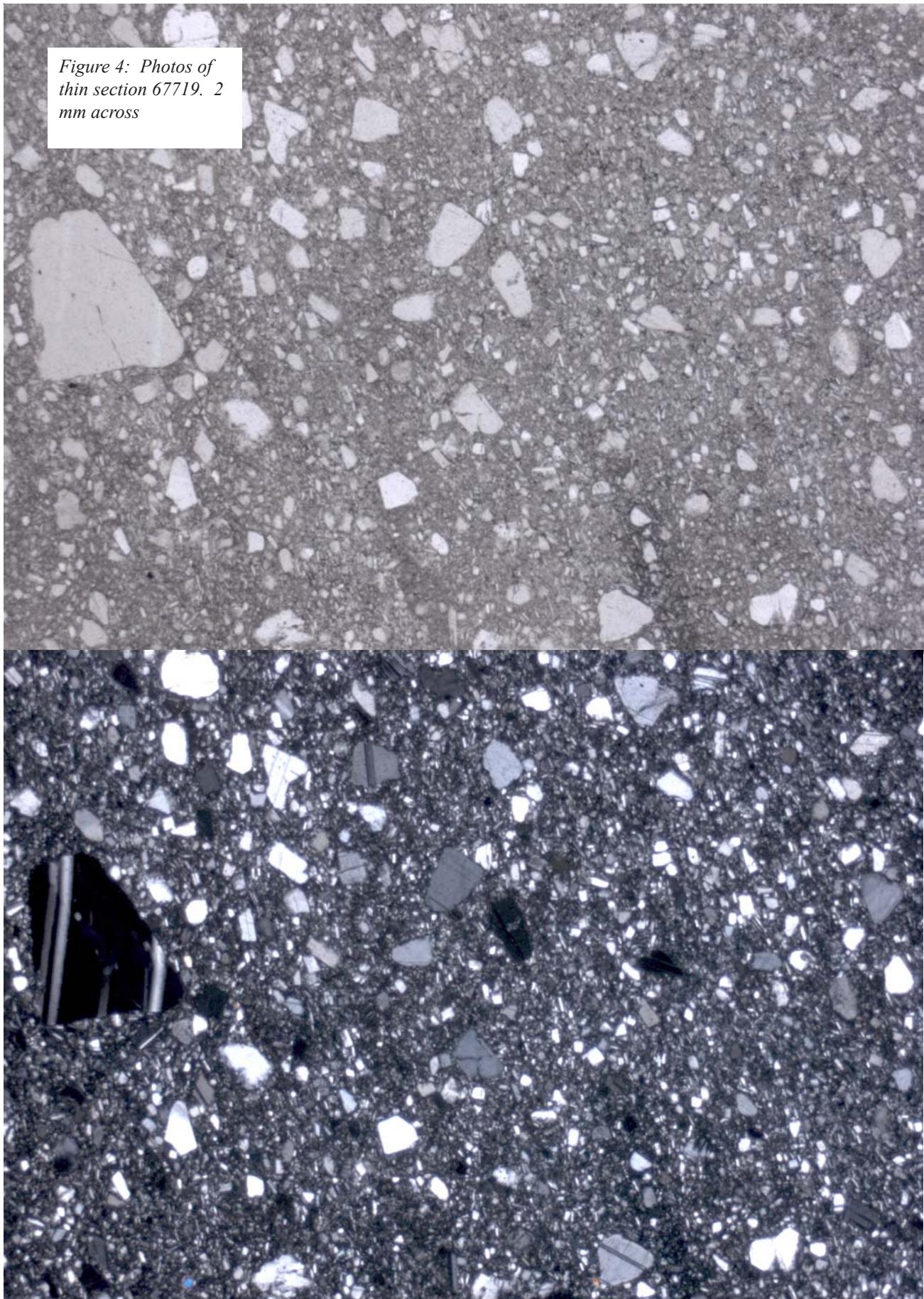


Figure 2: Photo of 67719. Scale in mm. S72-51248

*Figure 3: Photos of  
thin section 67718. 2  
mm across*



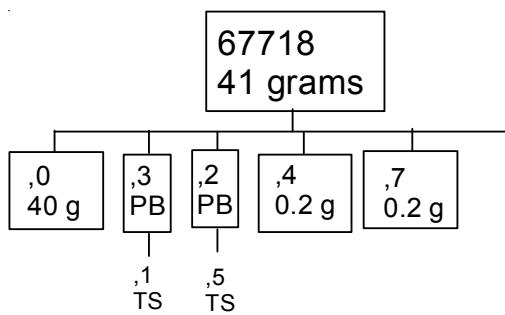
*Figure 4: Photos of  
thin section 67719. 2  
mm across*



## Processing

Each has a thin section.

List of Photo #s



## **References for 67718**

Butler P. (1972a) Lunar Sample Information Catalog Apollo 16. Lunar Receiving Laboratory. MSC 03210 Curator's Catalog. pp. 370.

LSPET (1973b) The Apollo 16 lunar samples: Petrographic and chemical description. *Science* **179**, 23-34.

LSPET (1972c) Preliminary examination of lunar samples. In Apollo 16 Preliminary Science Report. NASA SP-315, 7-1—7-58.

Ryder G. and Norman M.D. (1980) Catalog of Apollo 16 rocks (3 vol.). Curator's Office pub. #52, JSC #16904

Stöffler D., Ostertag R., Reimold W.U., Borchardt R., Malley J. and Rehfeldt A. (1981) Distribution and provenance of lunar highland rock types at North Ray Crater, Apollo 16. *Proc. 12<sup>th</sup> Lunar Planet. Sci. Conf.* 185-207.

Stöffler D., Bischoff A., Borchardt R., Burghel A., Deutsch A., Jessberger E.K., Ostertag R., Palme H., Spettel B., Reimold W.U., Wacker K. and Wanke H. (1985) Composition and evolution of the lunar crust in the Descartes highlands. *Proc. 15<sup>th</sup> Lunar Planet. Sci. Conf.* in *J. Geophys. Res.* **90**, C449-C506.

Smith J.V. and Steele I.M. (1972c) Apollo 16 rake samples 67515 to 68537: Sample classification, description and inventory. Curator Catalog, JSC

Sutton R.L. (1981) Documentation of Apollo 16 samples. In *Geology of the Apollo 16 area, central lunar highlands.* (Ulrich et al. ) U.S.G.S. Prof. Paper 1048.