73218

Impact Melt Breccia

39.7 grams

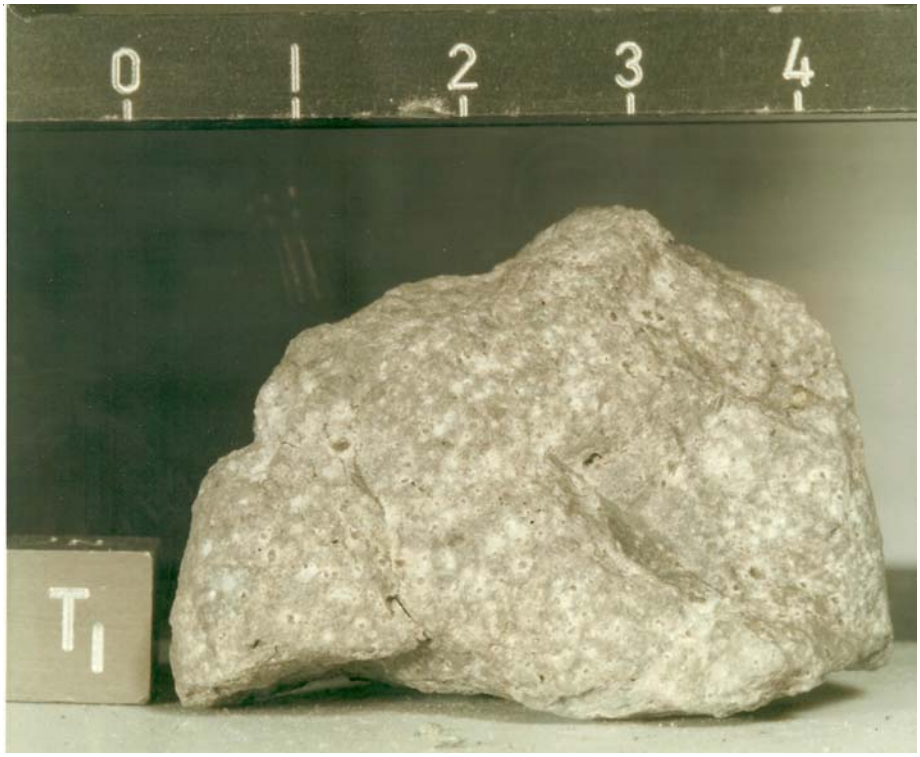


Figure 1: Photo of 73218. S73-16915. Scale and cube are 1 cm.

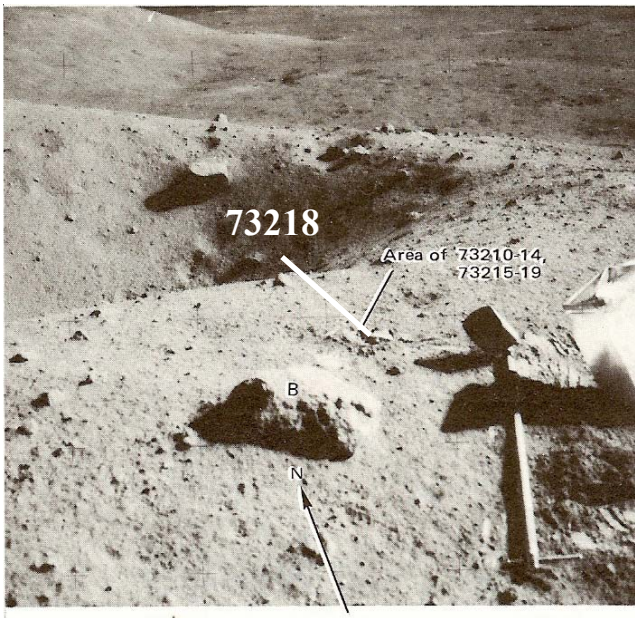


Figure 2: Location of 73218 at station 3, Apollo 17. AS17-138-21160

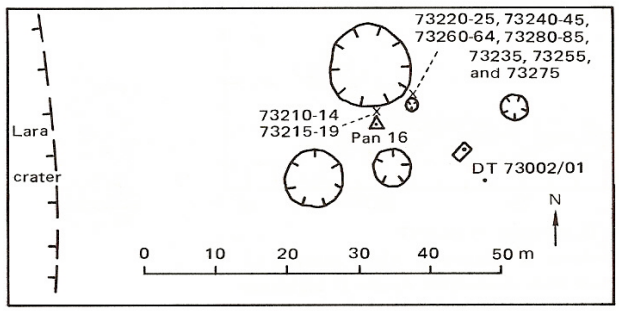


Figure 3: Map of station 3, Apollo 17.

Introduction

73218 is a coherent impact melt rock similar to 73216 and 73275 from the same location.

Schneider and Horz (1974) determined the size distribution of micrometeorite craters.

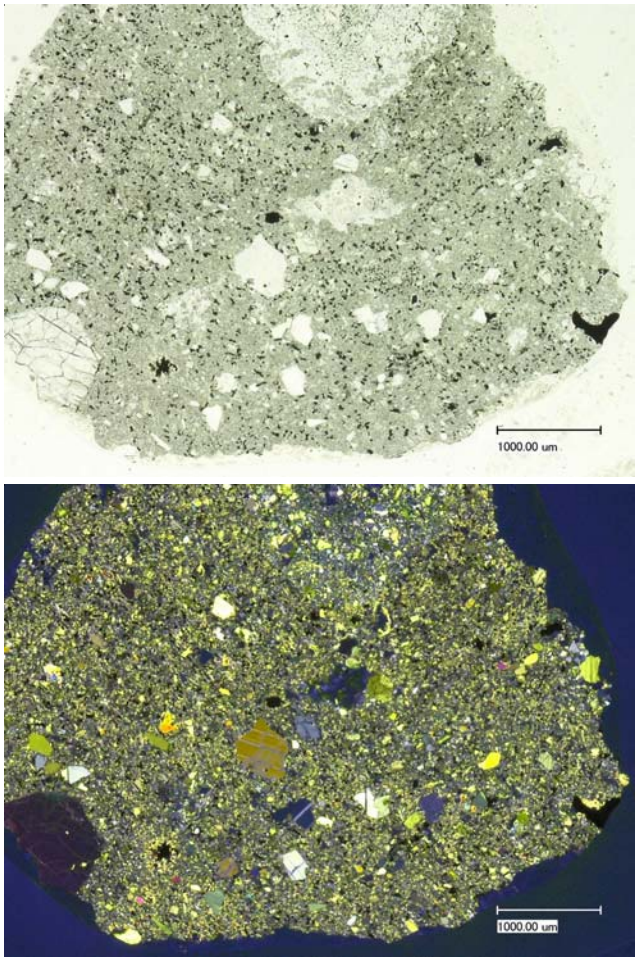


Figure 4a: Photomicrographs of thin section 73218,26 by C Meyer @50x.

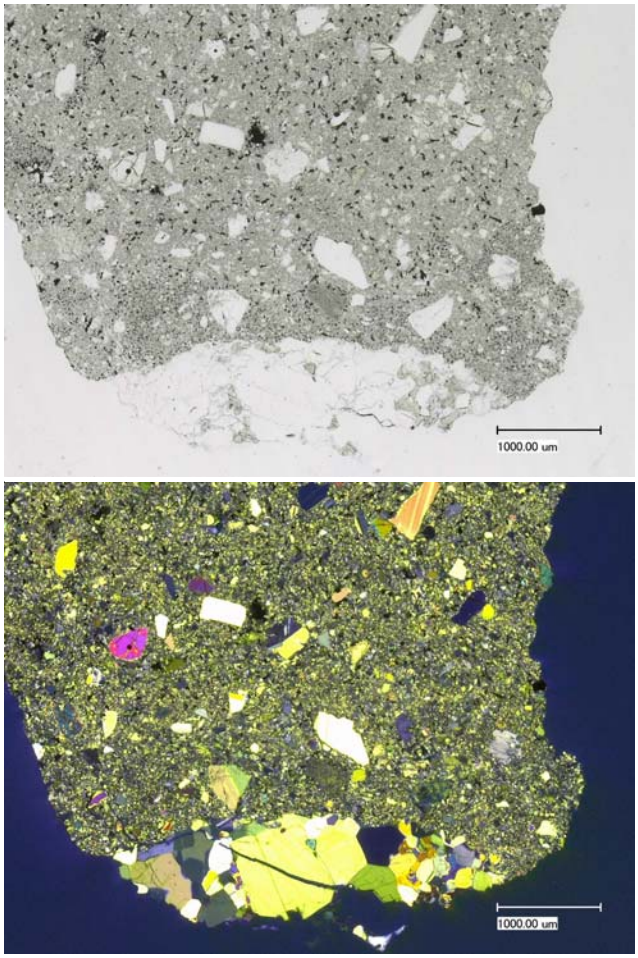


Figure 4b: Photomicrographs of thin section 73218,27 by C Meyer @50x.

Petrography

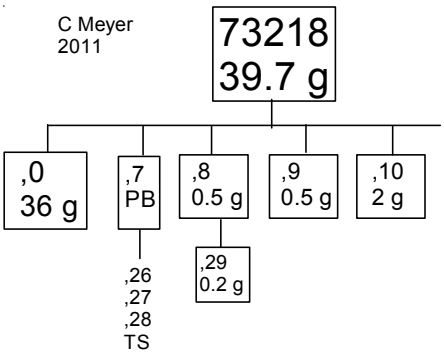
Ryder (1993) gives the only description. He recognized that it was an impact melt rock, because the fine grained matrix has needles of plagioclase that formed from a melt. However, before it was a melt it was a breccias, because there are relict small clasts of anorthosites and anorthositic breccias (figure 4 a, b).

Chemistry

None, but probably feldspathic.

Processing

A two gram piece was allocated to Wasserburg, but no data have been reported. There are three thin sections.



References for 73218

Butler P. (1973) Lunar Sample Information Catalog Apollo 17. Lunar Receiving Laboratory. MSC 03211 Curator's Catalog. pp. 447.

Hartung J.B., Horz F., Aitken F.K., Gault D.E. and Brownlee D.E. (1973) The development of microcrater populations on lunar rocks. *Proc. 4th Lunar Sci. Conf.* 3213-3234.

LSPET (1973) Apollo 17 lunar samples: Chemical and petrographic description. *Science* **182**, 659-672.

LSPET (1973) Preliminary Examination of lunar samples. Apollo 17 Preliminary Science Rpt. NASA SP-330. 7-1 – 7-46.

Muehlberger W.R. and many others (1973) Preliminary Geological Investigation of the Apollo 17 Landing Site. *In* **Apollo 17 Preliminary Science Report.** NASA SP-330.

Ryder G. (1993c) Catalog of Apollo 17 rocks: Stations 2 and 3. Curators Office JSC#26088.

Schneider E. and Hörz F. (1974) Microcrater populations on Apollo 17 rocks. *Icarus* **22**, 459-473.

Wolfe E.W., Bailey N.G., Lucchitta B.K., Muehlberger W.R., Scott D.H., Sutton R.L and Wilshire H.G. (1981) The geologic investigation of the Taurus-Littrow Valley: Apollo 17 Landing Site. US Geol. Survey Prof. Paper, 1080, pp. 280.