

**14071**  
**Olivine Basalt**  
2.16 grams



*Figure 1: Photo of 14071. Sample is 2 cm across. S71-26072.*

**Introduction**

Sample 14071 was picked up on the flank of Cone Crater (Swann et al. 1971). It has not been allocated.

**Petrography**

14071 has homogeneous igneous texture (Wilshire and Jackson 1972; Carlson and Walton 1978). The only thin section (,2) shows a high proportion of mafic minerals. (olivine and high-Ca pyroxene)(figure 2). It is probably a mare basalt.

*Figure 2: Photomicrographs of thin section 14071,2 by C Meyer @100x.*



**References for 14071**

Carlson I.C. and Walton W.J.A. (1978) **Apollo 14 Rock Samples**. Curators Office. JSC 14240

LSPET (1971) Preliminary examination of lunar samples from Apollo 14. *Science* 173, 681-693.

Neal C.R. and Kramer G.Y. (2006) The petrogenesis of the Apollo 14 high-Al mare basalts. *Am. Mineralogist* 91, 1521-1535.

Sutton R.L., Hait M.H. and Swann G.A. (1972) Geology of the Apollo 14 landing site. *Proc. 3<sup>rd</sup> Lunar Sci. Conf.* 27-38.

Swann G.A., Trask N.J., Hait M.H. and Sutton R.L. (1971a) Geologic setting of the Apollo 14 samples. *Science* 173, 716-719.

Swann G.A., Bailey N.G., Batson R.M., Eggleton R.E., Hait M.H., Holt H.E., Larson K.B., Reed V.S., Schaber G.G., Sutton R.L., Trask N.J., Ulrich G.E. and Wilshire H.G. (1977) Geology of the Apollo 14 landing site in the Fra Mauro Highlands. U.S.G.S. Prof. Paper 880.

Swann G.A., Bailey N.G., Batson R.M., Eggleton R.E., Hait M.H., Holt H.E., Larson K.B., McEwen M.C., Mitchell E.D., Schaber G.G., Schafer J.P., Shepard A.B., Sutton R.L., Trask N.J., Ulrich G.E., Wilshire H.G. and Wolfe E.W. (1972) 3. Preliminary Geologic Investigation of the Apollo 14 landing site. *In Apollo 14 Preliminary Science Rpt.* NASA SP-272. pages 39-85.

Wilshire H.G. and Jackson E.D. (1972) Petrology and stratigraphy of the Fra Mauro Formation at the Apollo 14 site. U.S. Geol. Survey Prof. Paper 785.

