67948

Highland Basalt

1.59 grams

Figure 1: Photo of 67948. Sample is 1.3 cm long. S80-40831

Figure 2: Photomicrograph of thin section 67948,14. Field of view is 2 mm. (from Ryder and Norman 1980).

Introduction

67948 was sieved from the soil collected next to Outhouse Rock – see section on 67941. It is a plagioclase-rich, ophitic basalt with igneous texture (figure 2). It is highly aluminous and has high potassium content.

Chemistry

Although the largest piece of this important sample was allocated, no analysis has been forthcoming.

References for 67948

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.

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

Stöffler D., Bischoff A., Borchardt R., Burghele 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. 15th Lunar Planet. Sci. Conf.* in J. Geophys. Res. **90**, C449-C506.

Warner J.L., Simonds C.H. and Phinney W.C. (1973b) Apollo 16 rocks: Classification and petrogenetic model. *Proc. 4th Lunar Sci. Conf.* 481-504.

Table 1. Chemical composition of 67948

reference	Stoffler86	
weight		
SiO2 %	50.8	(a)
TiO2	0.51	(a)
Al2O3	24.4	(a)
FeO	2.07	(a)
MnO	0.03	(a)
MgO	4	(a)
CaO	16.3	(a)
Na2O	0.76	(a)
K2O	1	(a)
P2O5	0.16	(a)
S %		
sum		

(a) DBA