67945

Impact Melt Breccia

4.4 grams

Figure 1: Photo of 67945. Sample is 2 cm long. S80-40836

Figure 2: Photo of other side of 67945. S80-40830

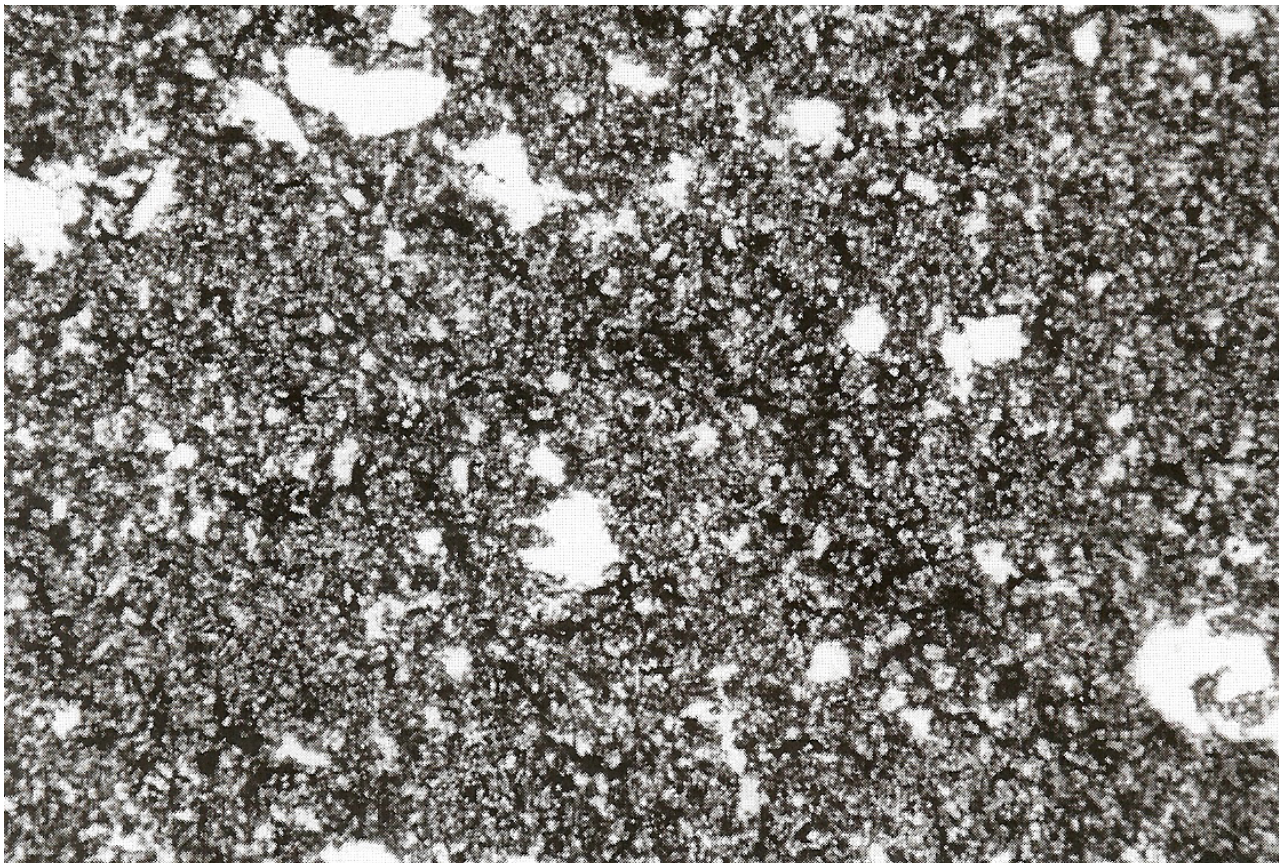


Figure 3: Photomicrograph of thin section of 67945 showing micropoikilitic texture of matrix with some clasts.

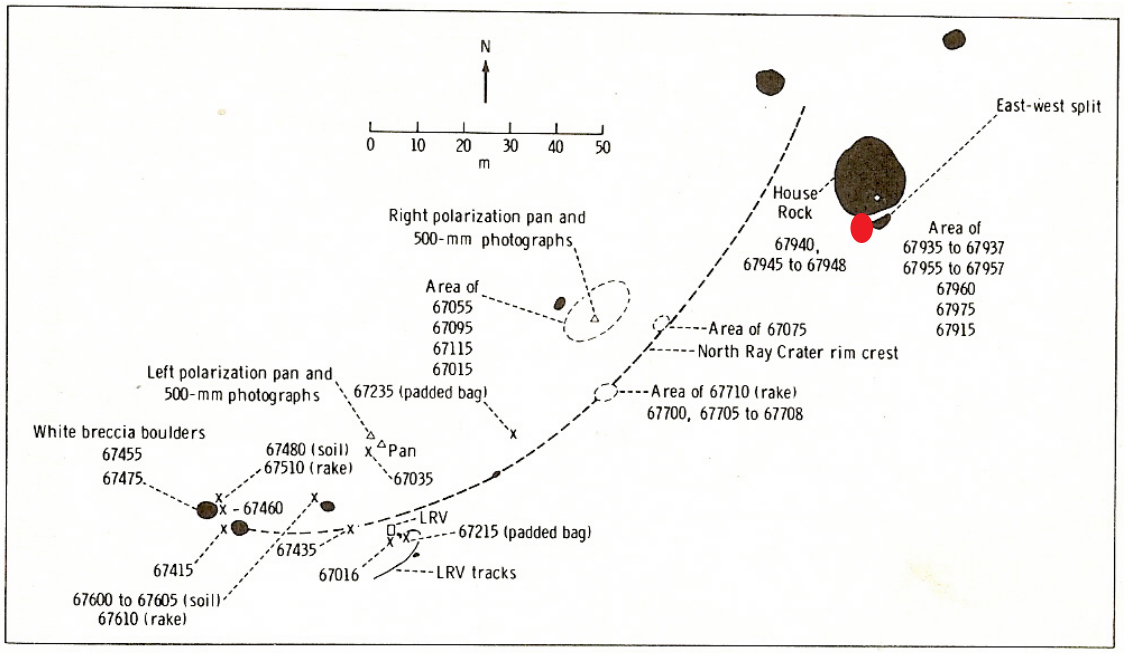
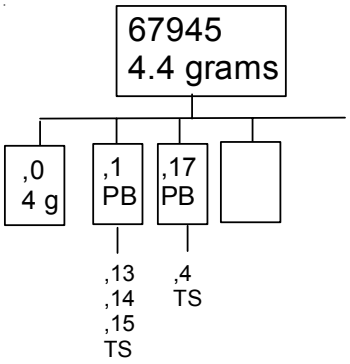


Figure 4: Location of 67940 - 48 adjacent to House Rock on rim of NRC.

Introduction

Samples larger than 1 cm were extracted from soil samples and individually numbered – see section on soil 67941. This soil was from the crack between House Rock and Outhouse Rock (Sutton et al. 1981). One might expect that this fragment is from the big breccia, but there is no way to confirm that.



Petrography

Stoffler et al. (1985) classified this rock as micropoikilitic impact breccia (figure 3), but gave no analysis. Ryder and Norman (1980) give the only other description.

Radiogenic age dating

Not

Processing

There are 4 thin sections.

References for 67945

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.

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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. 12th Lunar Planet. Sci. Conf.* 185-207.

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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.