

74250 and 74270

Soil

22.6 and 9.6 grams

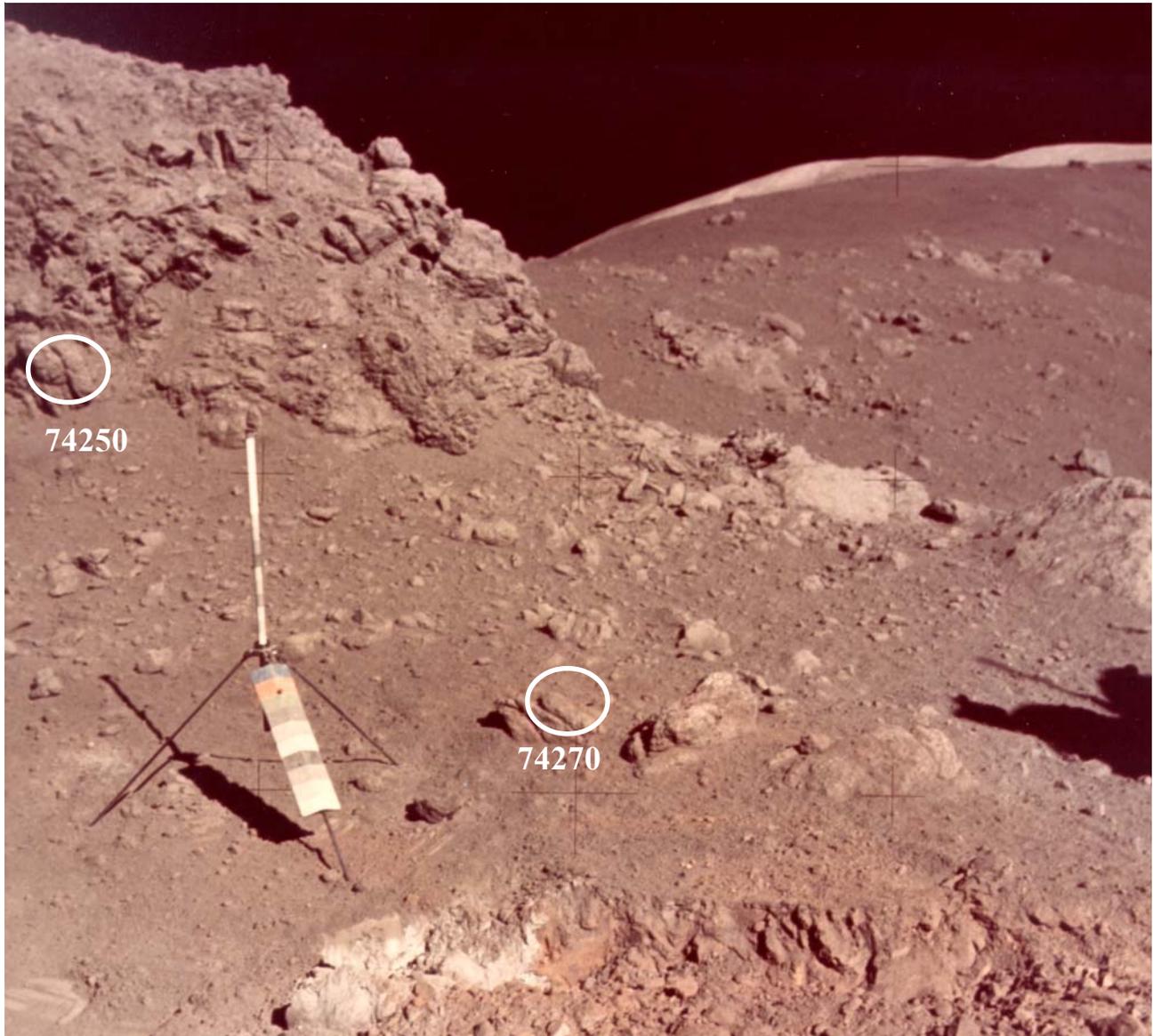


Figure 1: Outcrop at Shorty Crater where basalt samples and orange soil were collected.

Introduction

74250 and 74270 are residual soil samples returned in bags with basalt samples 74255 and 74275. They are from the rock outcrop near the orange soil at Shorty Crater (figure 1).

Petrography

These residue have not been studied. Lunar samples are always covered with dust which becomes residue in sample bag – along with pieces rubbed off of the rock sample included. The basalt samples in these bags were discussed in the catalog by Meyer (1994) and this compendium.

References for 74250 and 74270

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

Heiken G.H. (1974) A catalog of lunar soils. JSC Curator

Heiken G.H. (1975) Petrology of lunar soils. *Rev. Geophys. Space Phys.* **13**, 567-587.

LSPET (1973a) Apollo 17 lunar samples : Chemical and petrographic description. *Science* **182**, 659-690.

LSPET (1973c) Preliminary examination of lunar samples. Apollo 17 Preliminary Science Report. NASA SP-330, 7-1—7-46.

Meyer C. (1994) **Catalog of Apollo 17 rocks**: Volume 4. Curator's Office JSC 26088 pp. 644

Meyer C. (2010) Lunar Sample Compendium (abs#1016). The 41st Lunar Planet. Sci. Conf. @ The Woodlands

Mitchell J.K., Carrier W.D., Costes N.C., Houston W.N., Scott R.F. and Hovland H.J. (1973) 8. Soil-Mechanics. In Apollo 17 Preliminary Science Rpt. NASA SP-330. pages 8-1-22.

Morris R.V., Score R., Dardano C. and Heiken G. (1983) Handbook of Lunar Soils. Two Parts. JSC 19069. Curator's Office, Houston

Morris R.V. (1978) The surface exposure (maturity) of lunar soils: Some concepts and Is/FeO compilation. *Proc. 9th Lunar Sci. Conf.* 2287-2297.

Papike J.J., Simon S.B. and Laul J.C. (1982) The lunar regolith: Chemistry, Mineralogy and Petrology. *Rev. Geophys. Space Phys.* **20**, 761-826.

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.