64478 – 12.3 grams
Impact Melt Breccia

Figure 1: Photo of 64478 with cm cube. S72-40139

Introduction
64478 is part of the residue of doc bag #3 which included 64475 and 64476.

Petrography
Ryder and Norman (1980) term 64478 a "glass-coated impact melt". The interior has a poikilitic texture in places (figure 2).

Chemistry
Korotev (1994) appears to have analyzed 64478, calling it "2F".

Processing
There are 2 thin sections of 64478.

References for 64478

Butler P. (1972a) Lunar Sample Information Catalog Apollo 16. Lunar Receiving Laboratory. MSC 03210 Curator's Catalog. pp. 370.

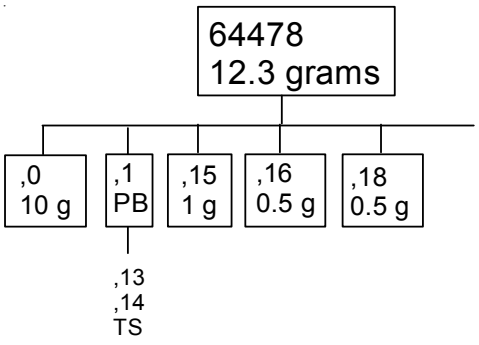
Hunter R.H. and Taylor L.A. (1981b) Rust and schreibersite in Apollo 16 highland rocks: Manifestations of volatile-element mobility. *Proc. 12th Lunar Planet. Sci. Conf.* 253-259.

Korotev R.L. (1994) Compositional variation in Apollo 16 impact melt breccias and inferences for the geology and bombardment history of the central highlands of the Moon. *Geochim. Cosmochim. Acta* **58**, 3931-3969.

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

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.



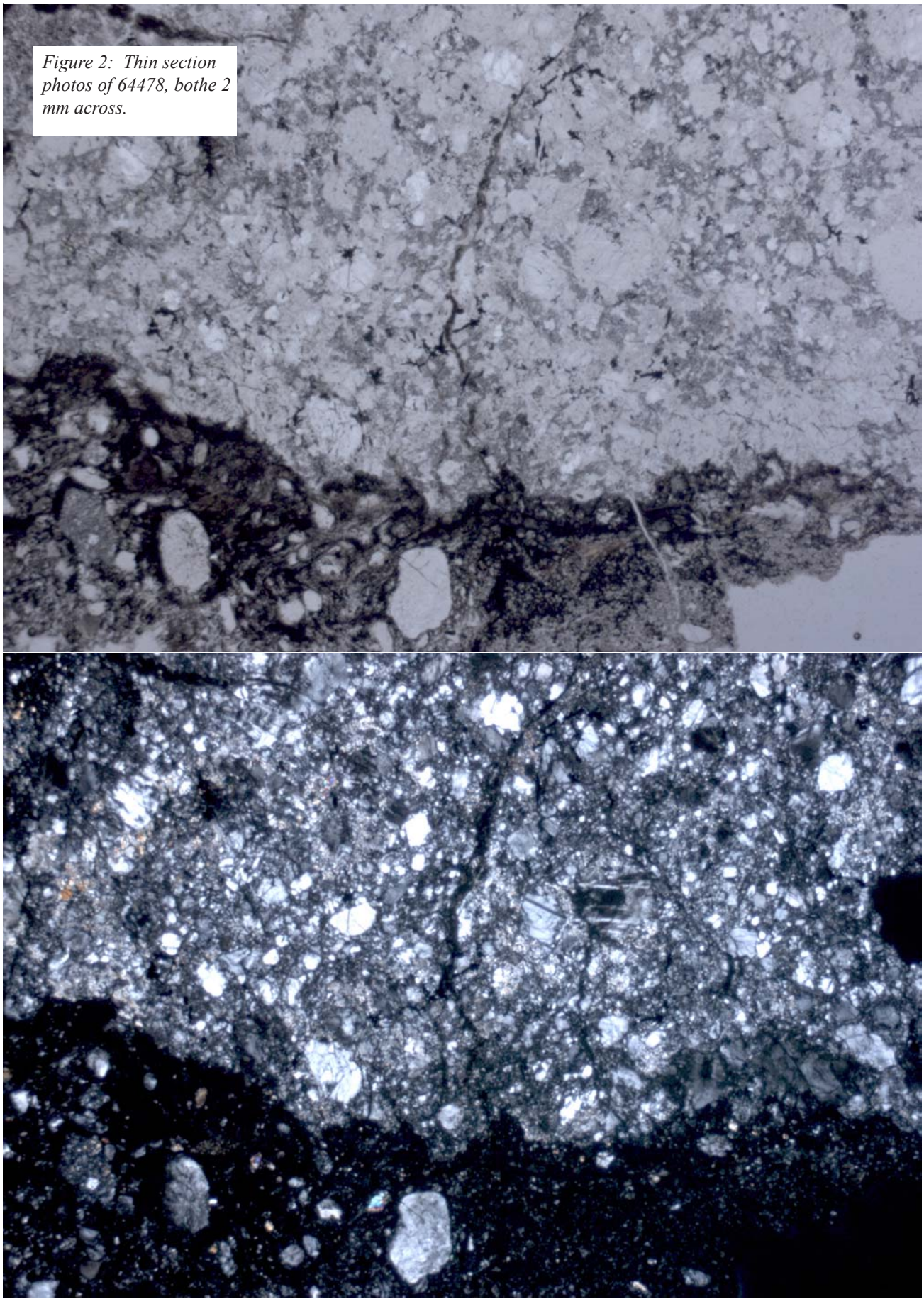


Figure 2: Thin section photos of 64478, bothe 2 mm across.