

**76035**  
Impact melt Breccia  
376.2 grams



Figure 1: Photo of freshly broken surface of 76035. Sample is about 10 cm across. S73-15455.

**Introduction**

Breccia sample 76035 was picked up near a small boulder located about 20 meters east of the big station 6 boulder. This small boulder also rolled down from an outcrop high up on the North Massif (Wolfe 1981).

Figure 1 shows that the main mass of 76035 is blue-gray impact melt breccia typical of the highlands, figure 2 shows the other side has an assemblage of light and dark clasts folded together as in an omelet (Meyer 1994). Note the large clast in figure 1.

**Petrography**

Chao et al. (1975) stated that 76035 was similar to 77115 and to 72435. Ryder (1982, 1984) found that 76035 had microphenocrysts of olivine in the matrix and was different from the samples of the large station 6 boulder.

**Chemistry**

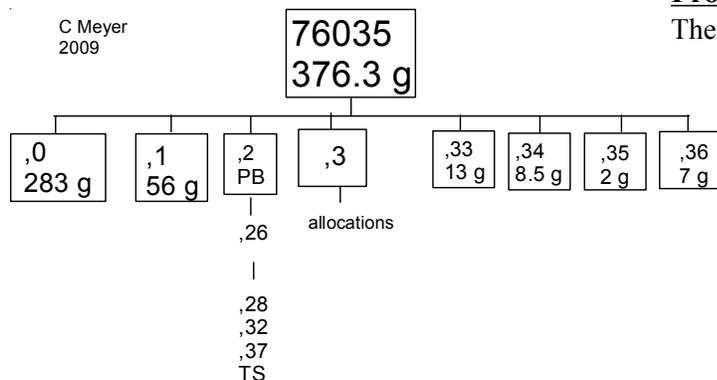
None

**Radiogenic age dating**

None

**Processing**

There are 5 thin sections of 76035.





*Figure : Photo of reverse side of 76036 showing small cubes of some other material. (also in cup). Cube is 1 cm. S74-22041.*

### References for 76035

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

Chao E.C.T., Minkin J.A. and Thompson C.L. (1974) Preliminary petrographic description and geologic implications of the Apollo 17 Station 7 Boulder Consortium samples. *Earth Planet. Sci. Lett.* 23, 413-428.

Chao E.C.T., Minkin J.A., Thompson C.L. and Heubner J.S. (1975a) The petrogenesis of 77115 and its xenocrysts: Description and preliminary interpretation. *Proc. 6<sup>th</sup> Lunar Sci. Conf.* 493-515.

Chao E.C.T., Minkin J.A. and Thompson C.L. (1975b) The petrogenesis of 77115 and its xenocrysts: Description and preliminary interpretation (abs). *Lunar Sci.* VI, 134-136. Lunar Planetary Institute, Houston.

Meyer C. (1994) *Catalog of Apollo 17 rocks. Vol. 4 North Massif*

Muehlberger et al. (1973) Documentation and environment of the Apollo 17 samples: A preliminary report. *Astrogeology* 71 322 pp superceeded by *Astrogeology* 73 (1975) and by Wolfe et al. (1981)

Muehlberger W.R. and many others (1973) Preliminary Geological Investigation of the Apollo 17 Landing Site. *In Apollo 17 Preliminary Science Report*. NASA SP-330.

Ryder G. (1982a) Apollo 17 ol-plag vitrophyres, 76035, and the Serenitatis melt sheet: Another brick in the wall (abs). *Lunar Planet. Sci.* XIII, 669-670. Lunar Planetary Institute, Houston.

Ryder G. (1984a) Most olivine in the lunar highlands is of shallow origin (abs). *Lunar Planet. Sci.* XV, 707-708. Lunar Planetary Institute, Houston.

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.