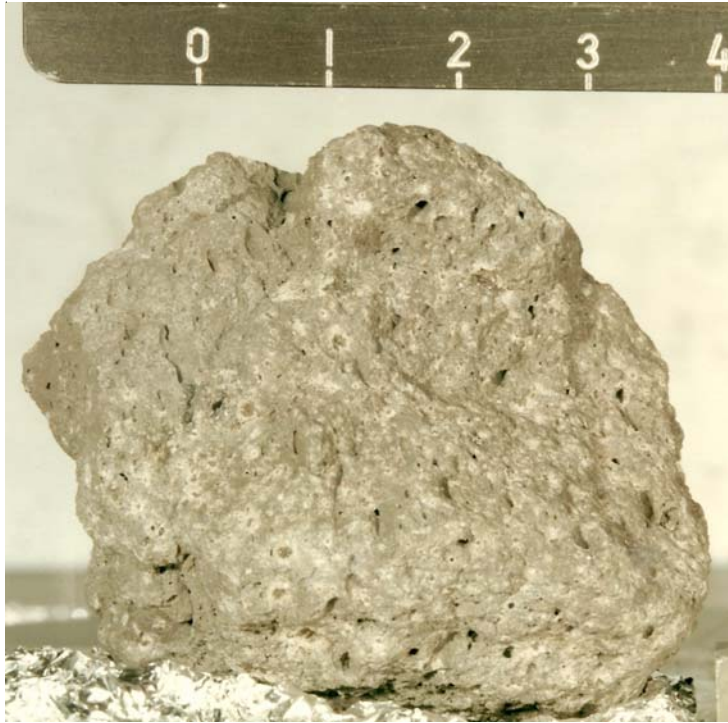
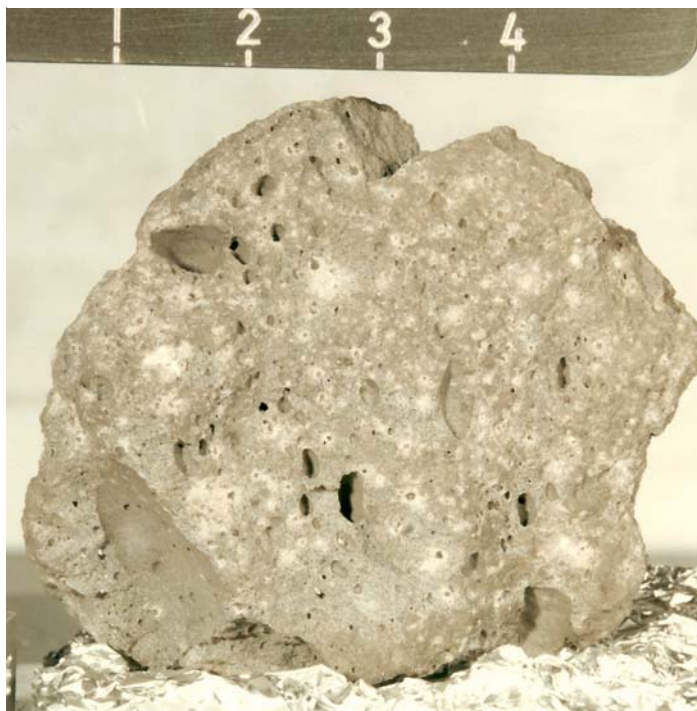


**77537**  
Impact melt Breccia  
71.7 grams



*Figure 1: Photo of 77537 T1. Scale in cm. S73-19144.*



*Figure 2: Photo of 77537 B1. Scale in cm. S73-19145.*

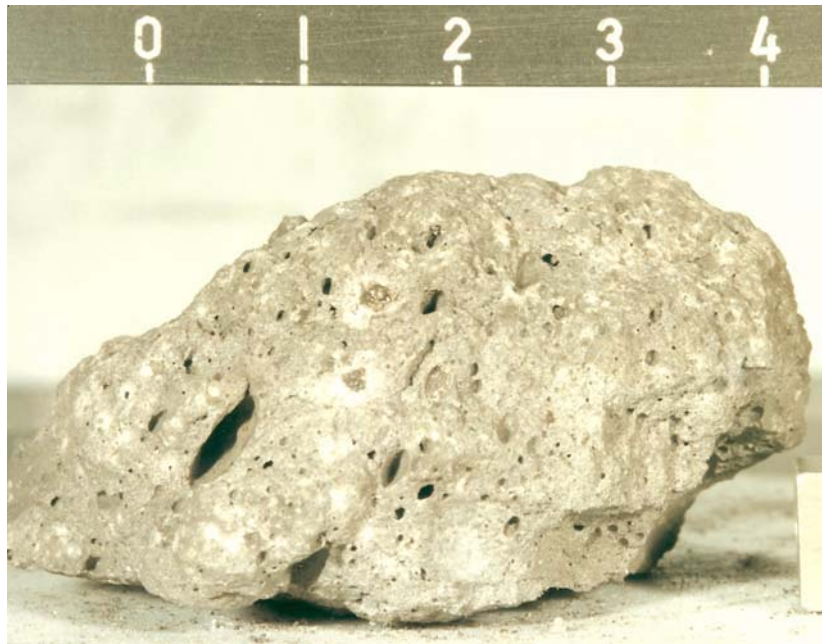


Figure 3: Photo of 77537 showing alignment of vugs. Note also well developed micrometeorite craters. Scale is in cm. S73-19149

### **Introduction**

77537 is a rake sample from station 7, Apollo 17. It appears to be another impact melt rock, but there are no thin sections nor other allocations. It has zap pits on all sides (figures 1 – 3).

### **Petrography**

Keil et al. (1974) and Meyer (1994) gave brief descriptions of 77537. It is coherent without fractures and has 10-20% vesicles ranging in size from <1 mm up to 15 mm. Clasts are difficult to discern.

Based on comparison with other samples from this location, this rock is an impact melt rock.

### **Chemistry**

None

### **References for 77537.**

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

Keil K., Dowty E. and Prinz M. (1974) Description, classification and inventory of 113 Apollo 17 rake samples from stations 1A, 2, 7 and 8. Curator's Catalog, pp. 149.

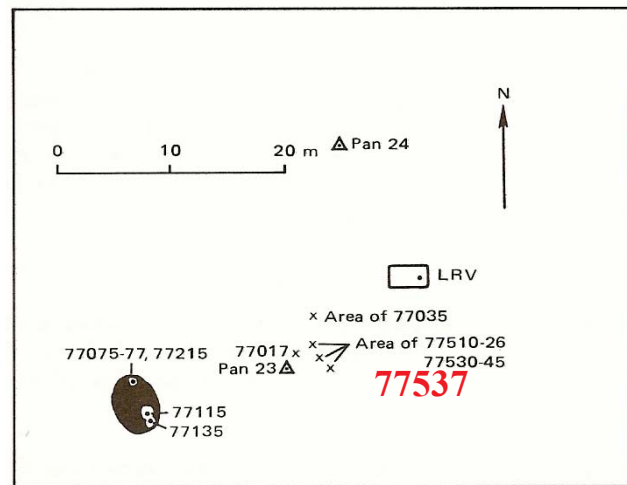


Figure 4: Map of station 7, Apollo 17.

Meyer C. (1994) **Catalog of Apollo 17 rocks**: Volume 4. Curator's Office JSC 26088 pp. 644 76 78

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.

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.