14309  
Regolith Breccia  
42.4 grams 

Figure 1: Two views of 14309. Sample is 5 cm long. Photos copied from Polaroids.

Introduction
14309 is a grab sample, collected somewhere along the traverse to Cone Crater (location unknown). It is a rounded vitric matrix breccia and has not been studied. There are glass-lined impact pits on the surface (figure 1).

Petrography
Thin sections show the matrix of 14309 is cemented by vesicular glass (figure 2). Chao et al. (19720 and Simonds et al. (1977) would consider this a glass-matrix regolith breccia.

Vaniman et al. (1981) found the glass had the composition of medium KREEP.

Chemistry
None

Processing
Sample 14309 was returned in weigh bag 1031 with other grab samples from EVA2.
Figure 2: Photomicrograph of thin section 14309.7. Scale = 2.8 mm across. Photo by C Meyer
C Meyer 2011

Lunar Sample Compendium

14309
42.4 grams

0 39 g
1 PB 2.1 g
.5 PB 1.3 g
.9 PB 0.3 g
.4 TS 0.8 g
.7 TS 1.3 g
.3 PB 0.2 g
.10 TS 0.3 g

References for 14309


