

INTRODUCTION: 15269 is a glassy regolith breccia with a vesicular glass coat (Fig. 1). It is tough, grayish black, and prismatic or angular. The glass coat is black. The contact of glass coat and glassy breccia is locally sharp, but elsewhere they grade, either rapidly or through a porous, sintered zone. The appearance is of melted breccia, not splash glass. 15269 was collected (with 15259, 15265 to 15268, and 15285 to 15289) from the crest of an inner bench on the north-east wall of the 12 m crater 15 m downslope from the LRV. Like 15268, it was lying very close to 15265-15267 and may have spalled from it.

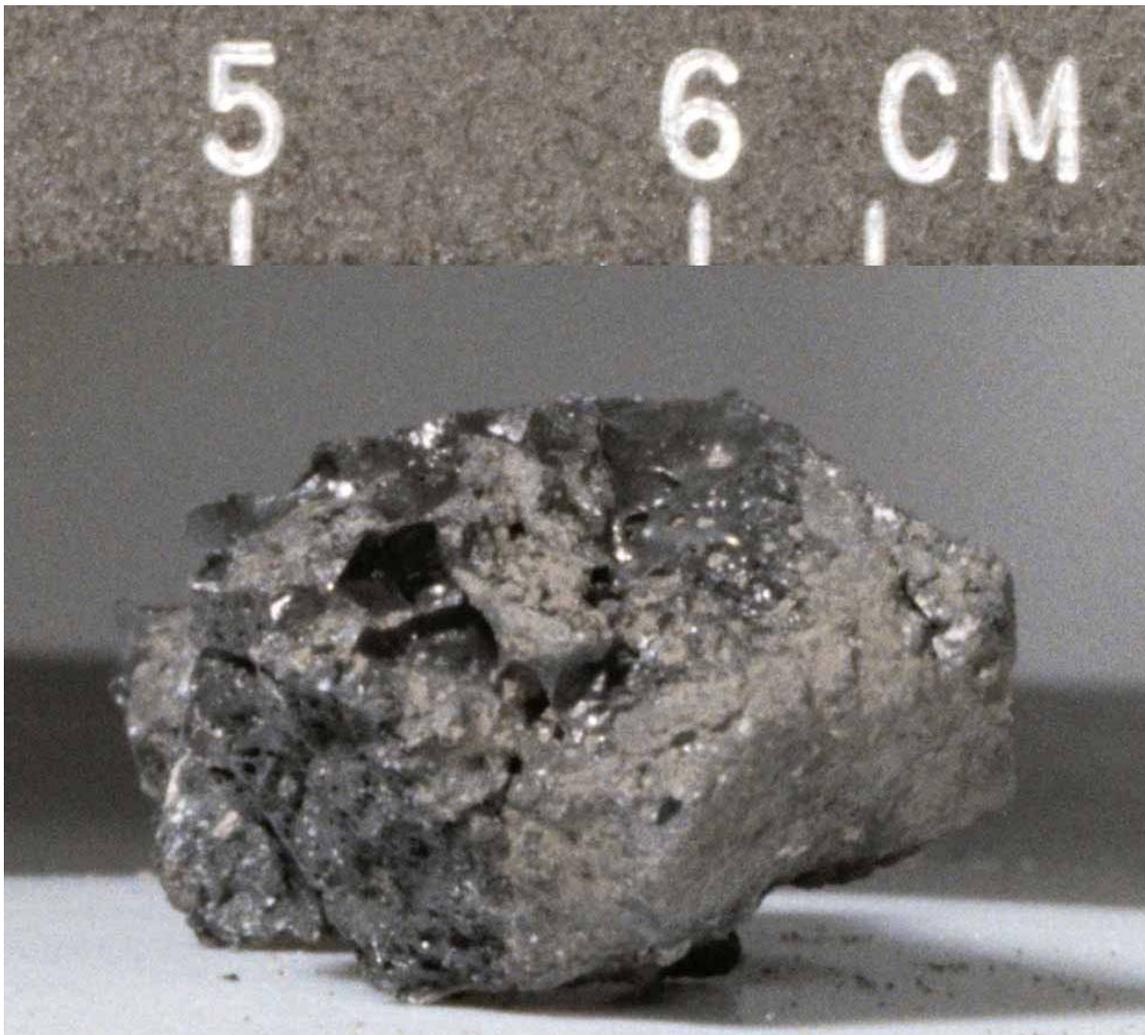


Figure 1. Pre-split view of 15269. S-71-45827

PETROLOGY: 15269 is a very glassy, coherent, foliated regolith breccia. It contains abundant colorless glass shards. Lithic clasts are generally small, and include fine-grained feldspathic impact melts, as well as anorthositic materials. KREEP and mare basalt fragments are not conspicuous. The glass coat is vesicular and extremely heterogeneous, containing clasts. In thin sections the contact with underlying breccia is quite sharp but irregular.

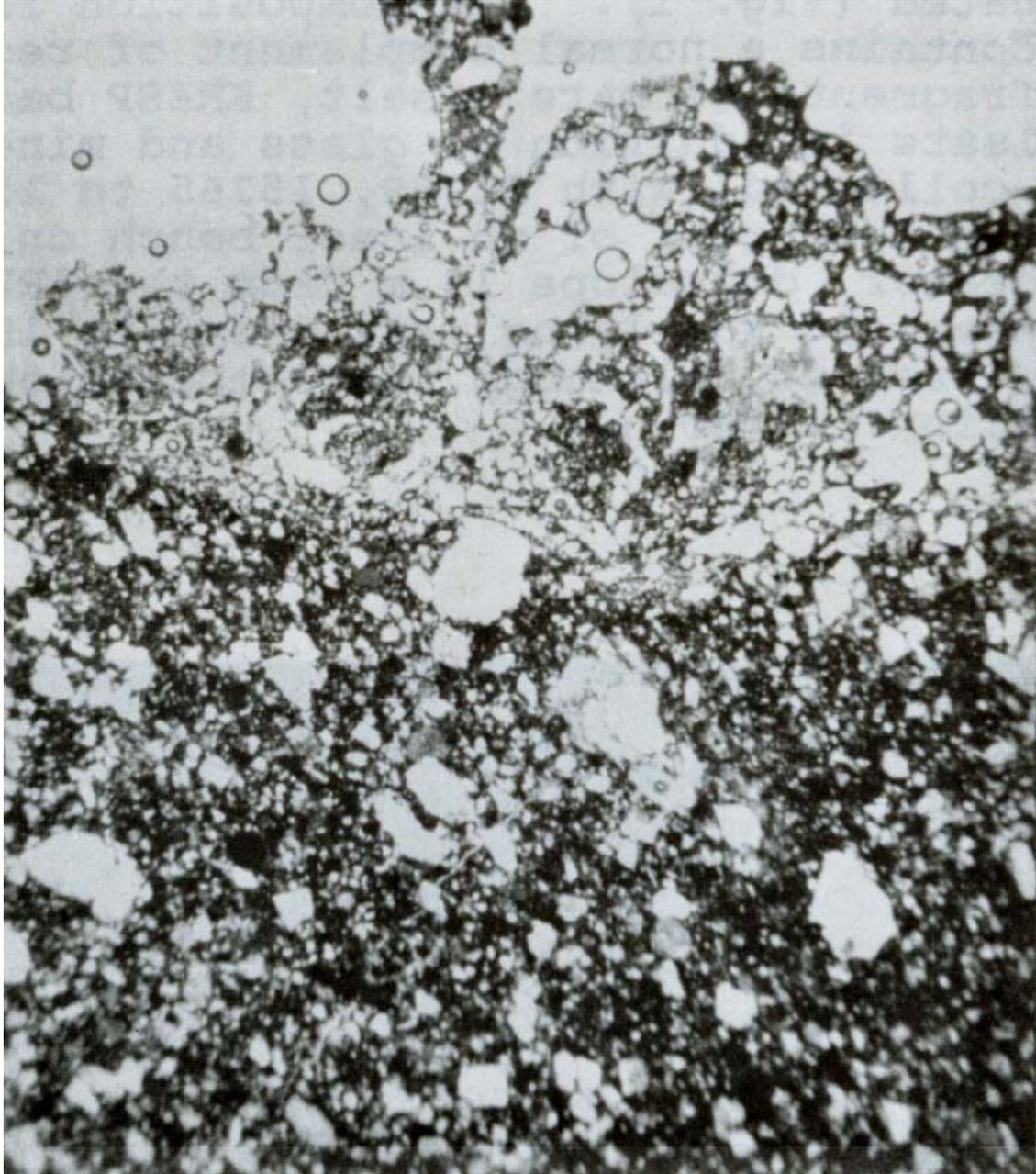


Figure 2. Photomicrograph of 15269,4.
Width about 2 mm. Transmitted light.
Glass coat is at top.

PROCESSING AND SUBDIVISIONS: Two chips were taken, only one of which was numbered (,1) (Fig. 3). This produced thin sections ,4 and ,6. ,0 is now 5.9 g.

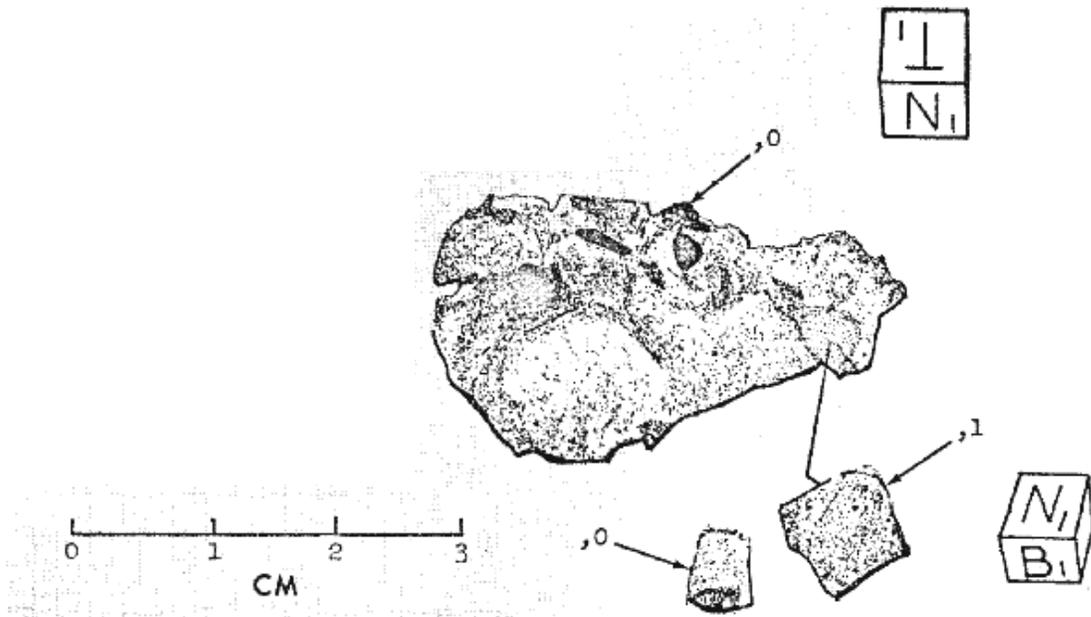


Figure 3. Chipping of 15269.