

**63538**  
Vitric Matrix Breccia  
35.1 grams



*Figure 1: Photo of 63538. Scale is metric. S72-55381*

**Introduction**

63538 is a rake sample from near Shadow Rock, Apollo 16 –see section on 63501. It is a glass-matrix breccia with abundant small clasts.

**Petrography**

Warner et al. (1973) described 63538 as “dendritic devitrified glass plus melted matrix breccia”. Norman and Ryder (1980) termed it “fine-grain impact melt and devitrified glass”. It has abundant small clasts held in a glassy matrix (figure 2). In places, the glass is devitrified into a mass of fine mineral needles. Most of the clasts are plagioclase-rich, with a variety of textures.

**Chemistry**

Reimold et al. (1985) reported 0.8 ppm Rb and 1.4 ppm Sm.

**Radiogenic age dating**

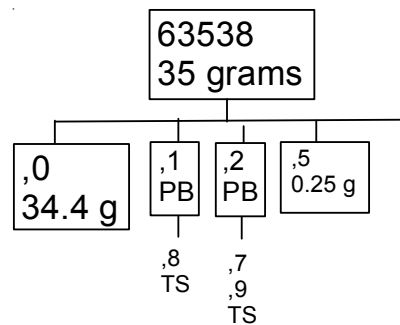
Reimold et al. (1985) reported isotopic ratios for Sr and Nd.

**Other Studies**

Pearce and Simonds (1974) reported magnetic properties.

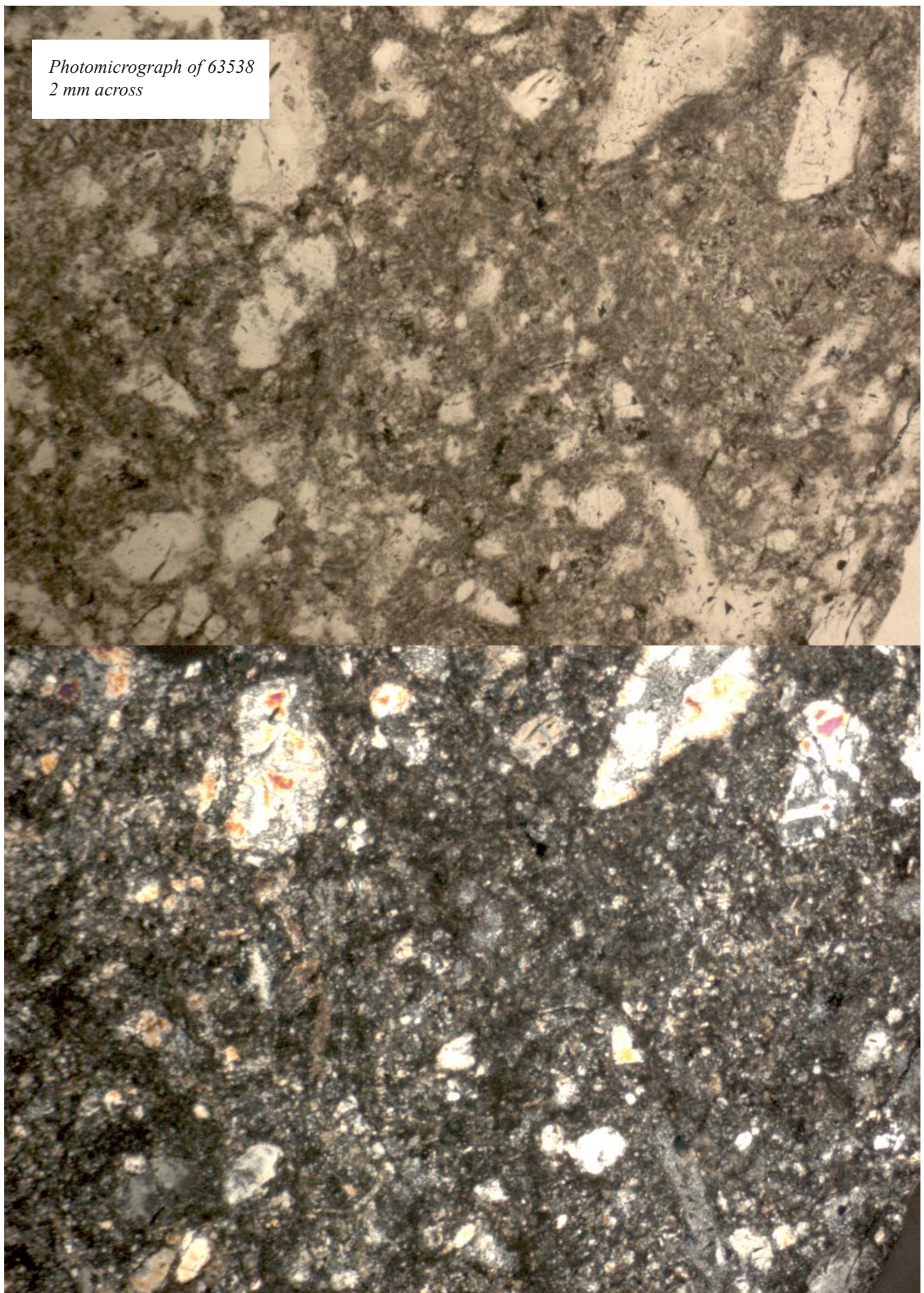
**Processing**

There are 3 thin sections.





*Photomicrograph of 63538  
2 mm across*





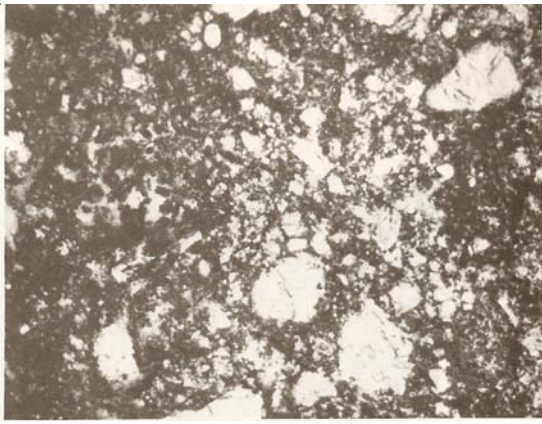


Figure 2: 63538 has an abundance of clasts.



Figure 3: Portions of 63538 have devitrified glass.

### References for 63538

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