

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

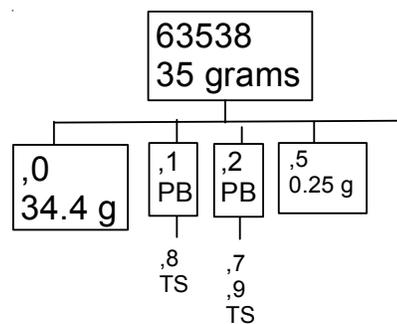
Reimold et al. (1985) reported isotopic ratios for Sr and Nd.

Other Studies

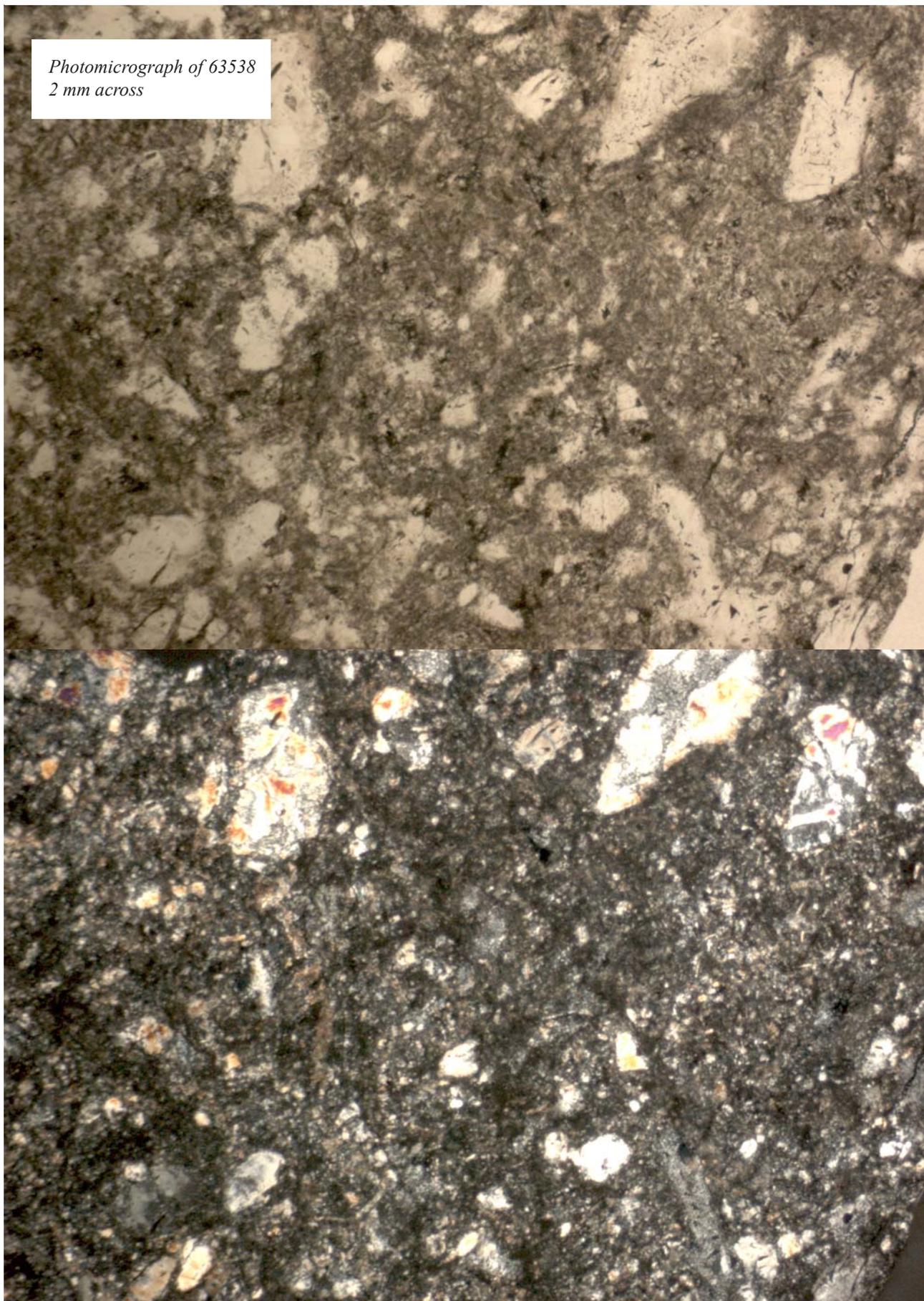
Pearce and Simonds (1974) reported magnetic properties.

Processing

There are 3 thin sections.



*Photomicrograph of 63538
2 mm across*



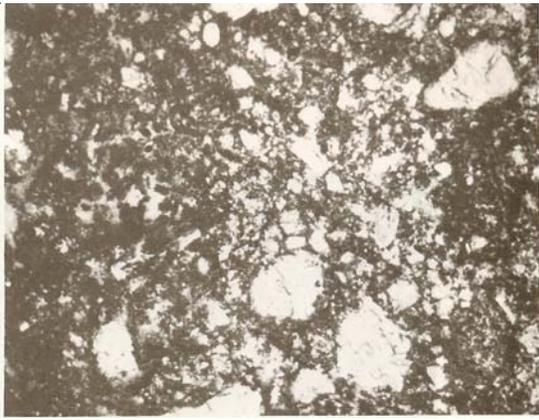


Figure 2: 63538 has an abundance of clasts.

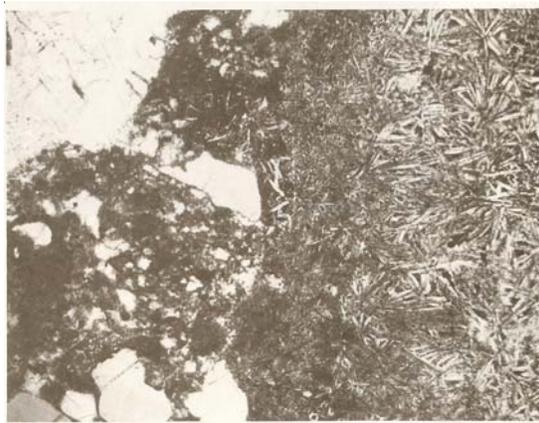


Figure 3: Portions of 63538 have devitrified glass.

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