

63587
Impact Melt Breccia
20.5 grams



Figure 1: Photo of 63587 with mm scale. S80-37431

Introduction

63587 was collected as a rake sample from the flank of North Ray Crater, Apollo 16 – see section on 63500. It is a coherent impact melt breccia with a poikilitic texture and numerous clasts (figure 1). It has numerous micrometeorite craters on its surface.

Petrography

63587 was described by Ryder and Norman (1980) as a “vesicular impact melt”. It has large interlocking pyroxene oikocrysts with enclosed plagioclase crystals and ilmenite crystals concentrated in the interoikocryst areas (figure 2). Lithic clasts include cataclastic anorthosite and one large granoblastic dunite (Ryder and Norman 1980).

The compositional variation of Apollo 16 impact-melt rocks is discussed by Korotev (1994).

Chemistry

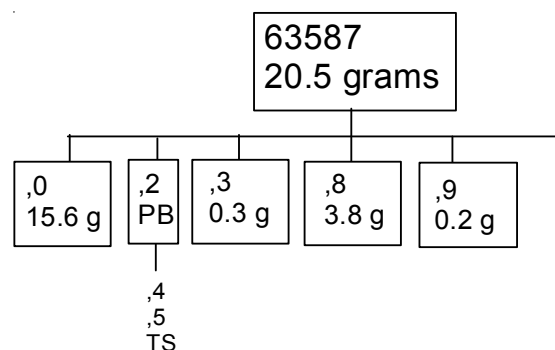
None

Radiogenic age dating

None

Processing

There are two thin sections.



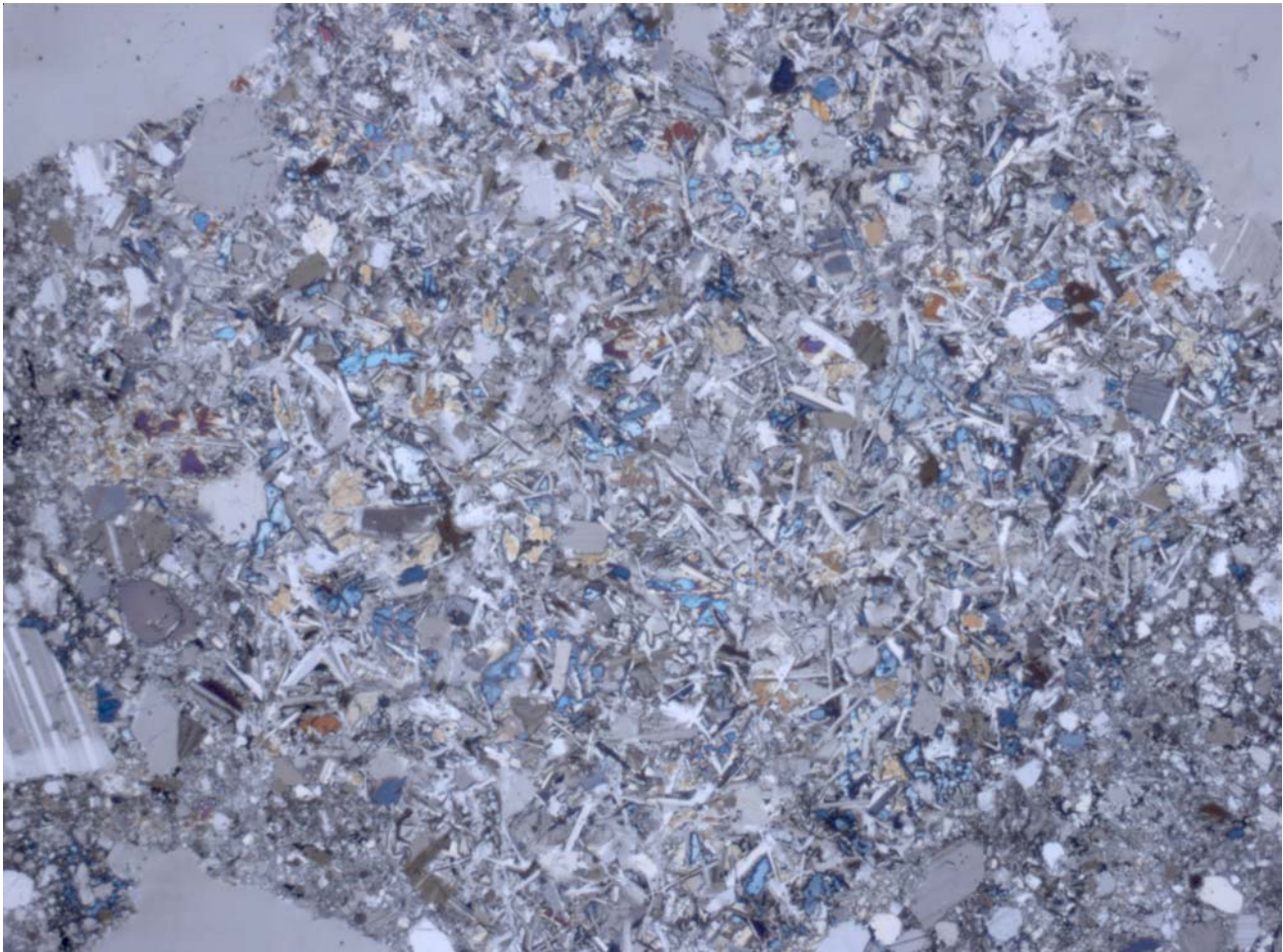


Figure 2: Photomicrograph of thin section 63587,4 using crossed-polarizers. Width of field 2 mm.

References for 63587

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