

INTRODUCTION: 67605 is a moderately friable, polymict breccia with a pale-colored matrix (Fig. 1). It was collected about 30 m east of the White Breccia boulders; its orientation is unknown because it was not identified in surface photographs. It has zap pits on all surfaces.

PETROLOGY: 67605 is a fragmental breccia with many plagioclase and plagioclase-rich breccia clasts, as well as opaque (brown) aphanitic impact melt debris which gives some areas of the thin sections a dark aspect (Fig. 2). One small clast in thin section, 6 is a mafic basalt (~60% pyroxene) with a significant silica phase and some ilmenite. The pyroxene is brown, probably ferroaugite, and olivine is absent.

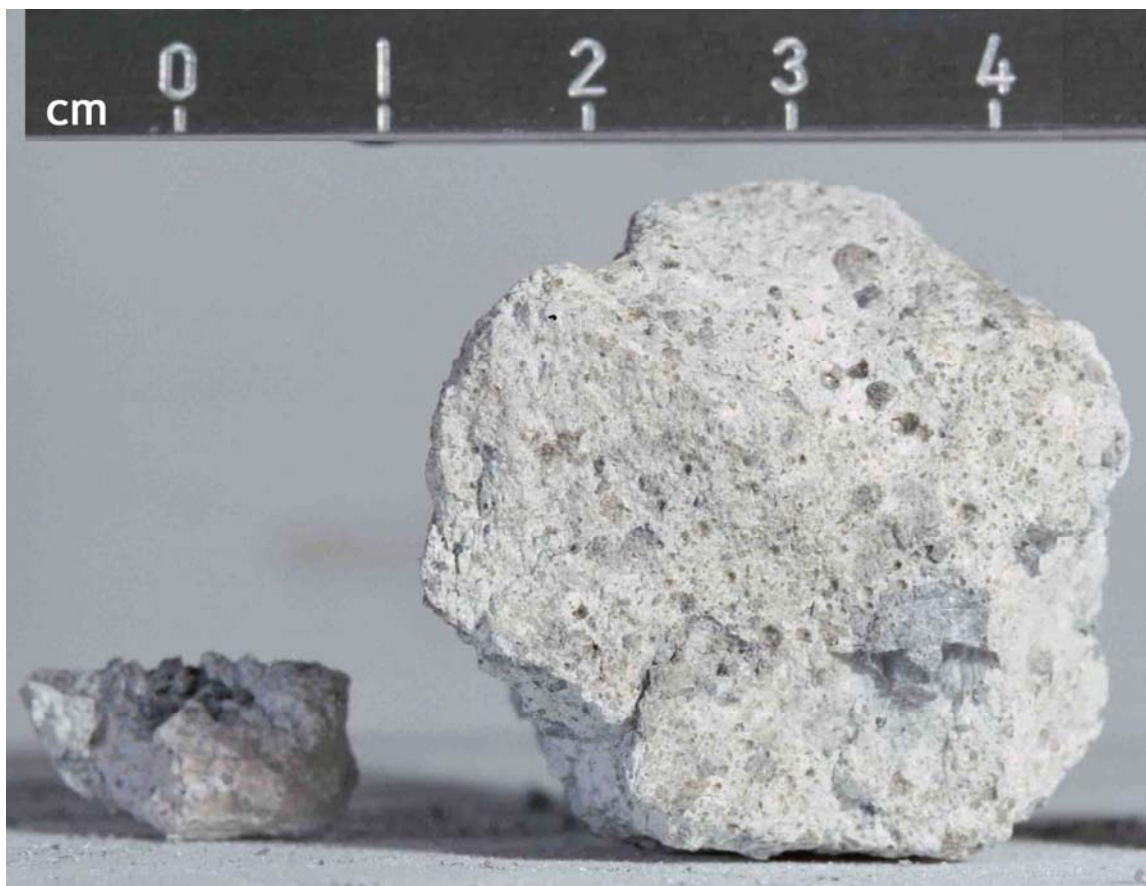


FIGURE 1. S-72-41580.

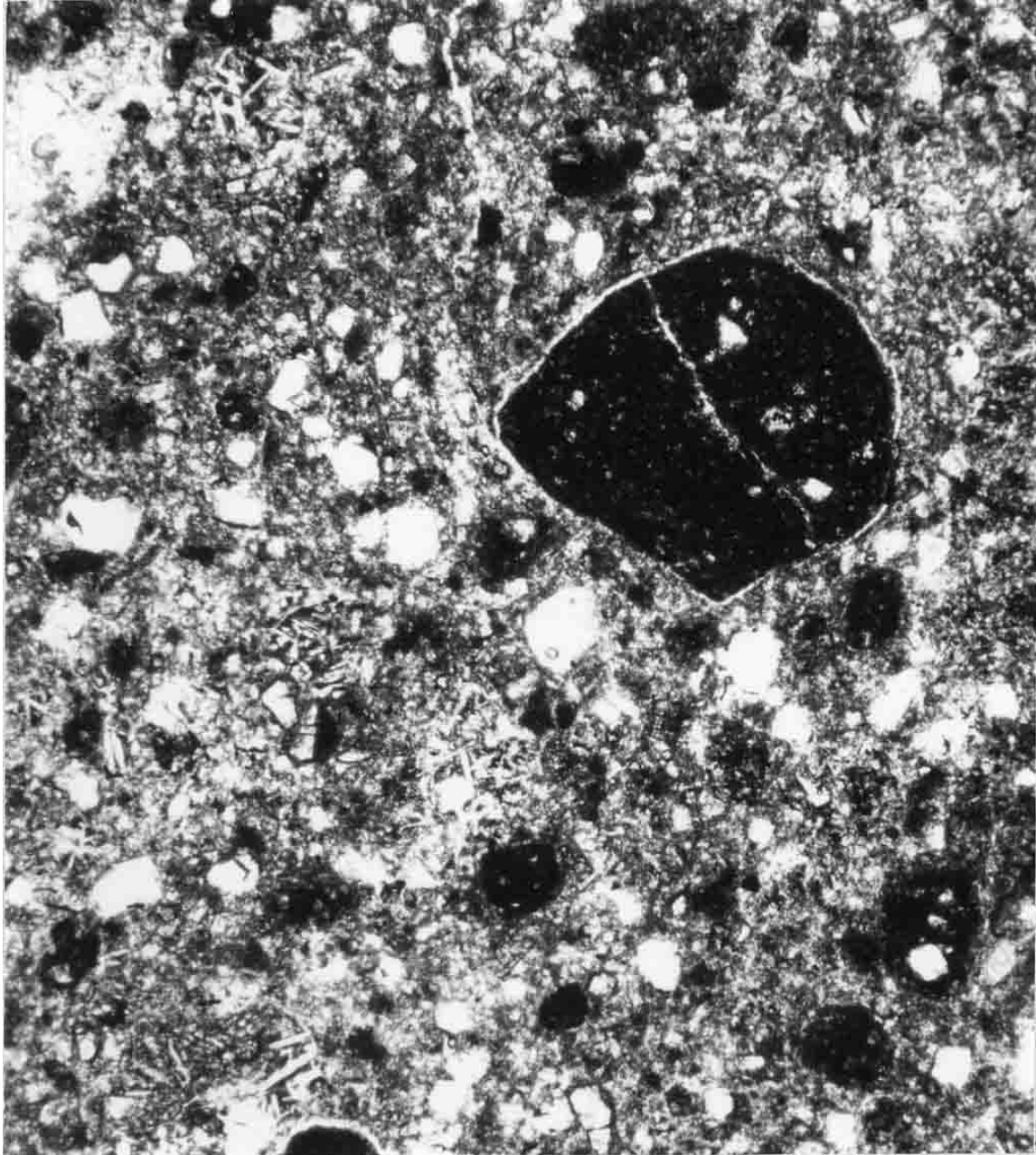


FIGURE 2. 67605,6. General view, ppl. Width 2 mm.

CHEMISTRY: A major and trace element analysis of a typical chip (,2) is presented by Warren and Wasson (1978) and summarized in Table 1 and Figure 3. The sample is aluminous, with low levels of incompatible elements, and is clearly contaminated with meteoritic debris.

PROCESSING AND SUBDIVISIONS: Several small chips have been removed, all typical in appearance. ,1 was allocated for Ar-Ar studies, ,2 for chemistry, and ,3 was made into thin sections ,5 and ,6.

TABLE 1. Summary chemistry of 67605 (Warren and Wasson, 1978).

SiO ₂	47	Sr	
TiO ₂	0.19	La	2.1
Al ₂ O ₃	30.0	Lu	0.12
Cr ₂ O ₃	0.06	Rb	
FeO	2.6	Sc	~4.8
MnO	0.04	Ni	95
MgO	4.0	Co	7.4
CaO	16.8	Ir ppb	3.6
Na ₂ O	0.49	Au ppb	<0.6
K ₂ O	0.05	C	
P ₂ O ₅		N	
		S	
		Zn	11
		Cu	

Oxides in wt%; others in ppm except as noted.

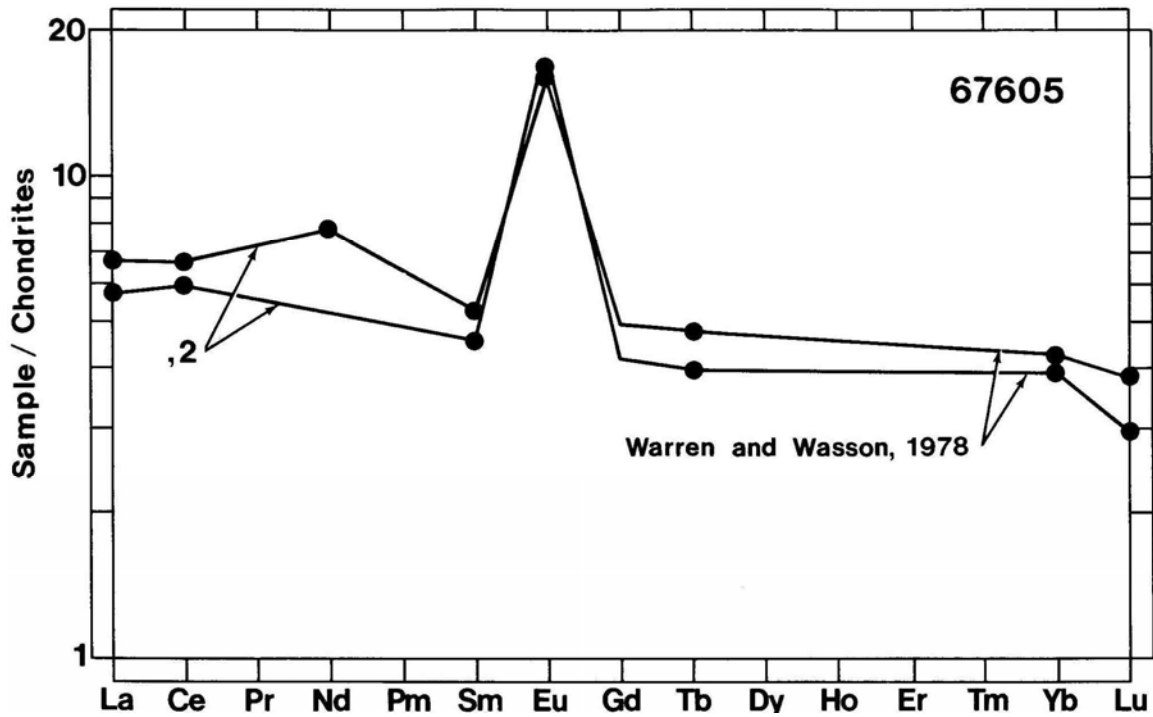


FIGURE 3. Rare earths.