

67485 – 6.6 grams
67488 – 2.3 grams
Impact Melt Breccia



Figure 1: Photo of 67485 with zap pits.. Scale is marked in mm. S80-40832

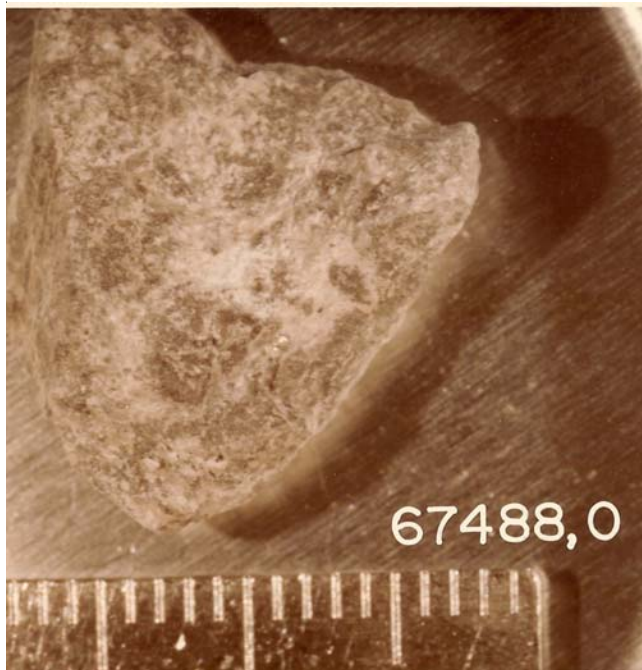


Figure 2: Photo of 67488 with mm scale. S80-40827

Introduction

67485 and 67488 are crystalline impact melts that were found in soil sample 67480 taken from the south rim of North Ray Crater – see section on 67481. Not much is known about them. They both have zap pits.

Petrography

Stoffler et al. (1985) list these two samples as granulitic breccias and gives the modal mineralogy as 87% plagioclase, 12% orthopyroxene, 2 % olivine and 0.3 % opaque.

Chemistry

Stoffler et al. (1985) determined their major element composition by DBA (table).

Radiogenic age dating

none

Processing

There is only one thin section of each sample.

*Figure 3: Photos of
thin section 67485,2 by
C Meyer. 2 mm across*

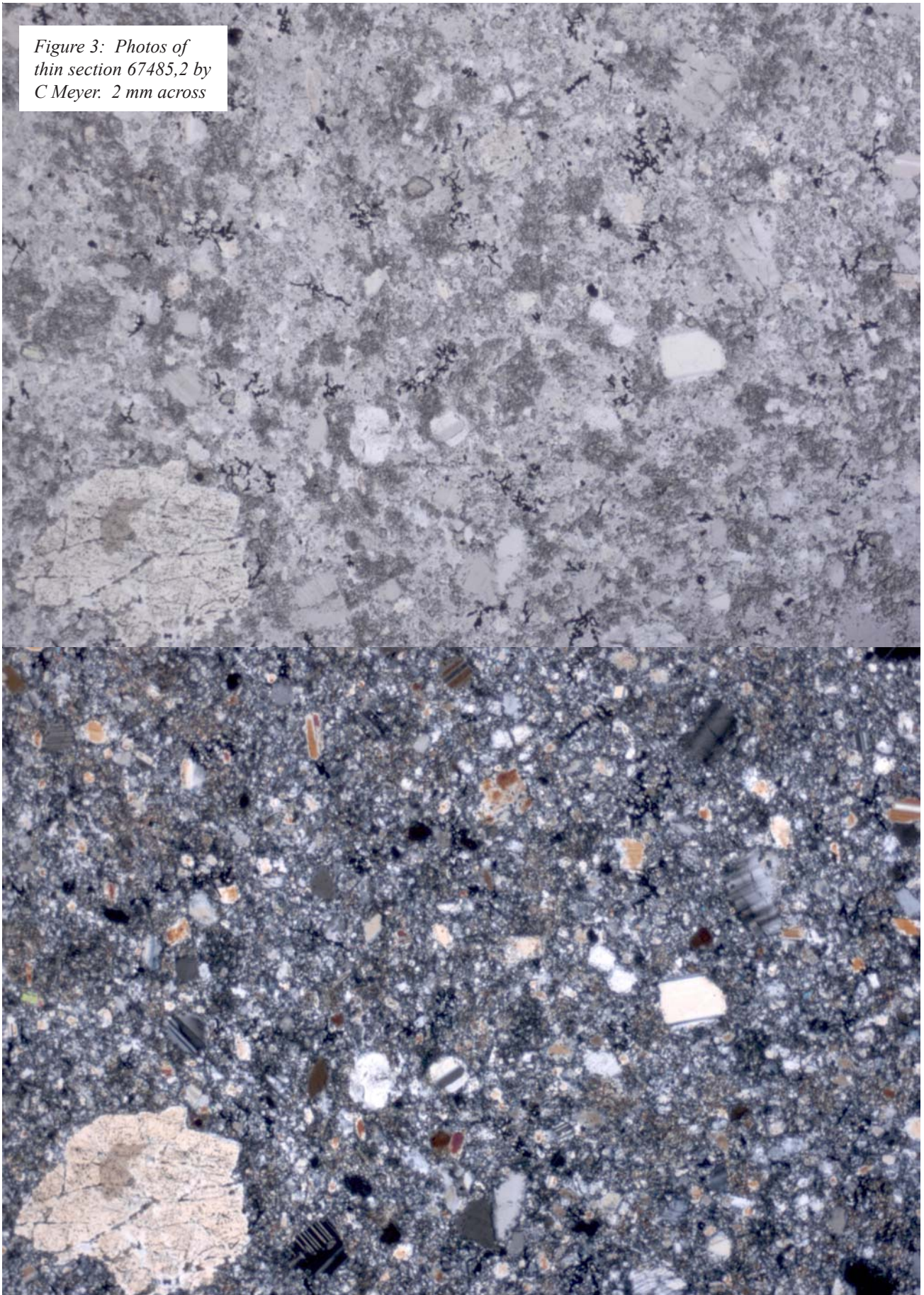
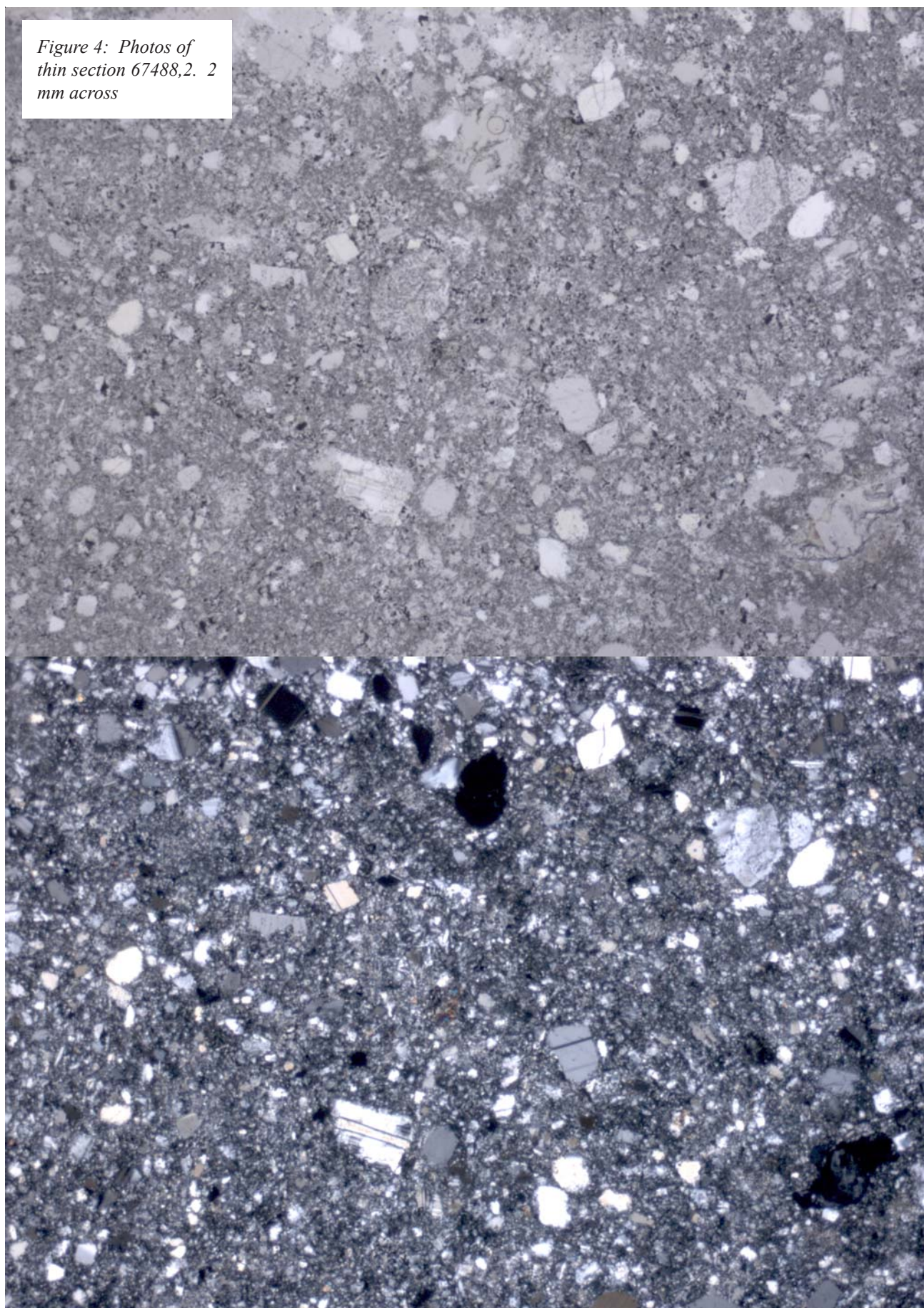


Figure 4: Photos of thin section 67488,2. 2 mm across



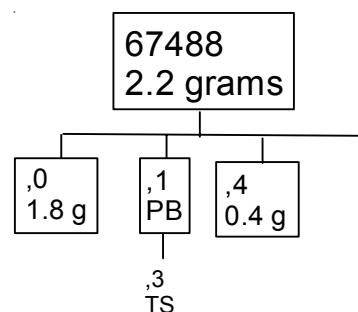
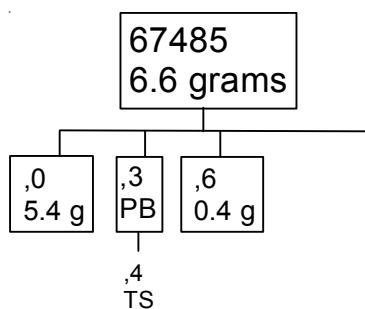


Table 1. Chemical composition of 67485.

	67485	67488	
<i>reference</i>	Stoffler85	Stoffler85	
<i>weight</i>			
SiO ₂ %	42.7	43.5	(a)
TiO ₂	0.4	0.2	(a)
Al ₂ O ₃	31.04	33.74	(a)
FeO	2.71	1.99	(a)
MnO			(a)
MgO	2.34	1.59	(a)
CaO	18.02	18.04	(a)
Na ₂ O	0.5	0.62	(a)
K ₂ O	0.06	0.04	(a)
P ₂ O ₅	0.04	0.03	(a)
S %			
<i>sum</i>			
(a) broad beam e. probe			

References for 67485, 88

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