

**78595****High-Ti Mare Basalt****4.19 g, 1.3 x 1.4 x 1.2 cm****INTRODUCTION**

Sample 78595 is a medium dark grey, fine-grained mare basalt from the large rake sample at Station 8 (Fig. 1).

**PETROGRAPHY**

Sample 78595 has slightly resorbed equant olivine phenocrysts. The

fine-grained groundmass has a variolitic texture (Fig. 2).

**MINERAL CHEMISTRY**

Warner et al. (1978f) have determined the chemical compositions of the minerals in 78595 (Fig. 3). Pyroxenes are chemically zoned.

**WHOLE-ROCK CHEMISTRY**

Warner et al. (1975a) have reported the chemical composition of 78595 (Table 1 and Fig. 4).

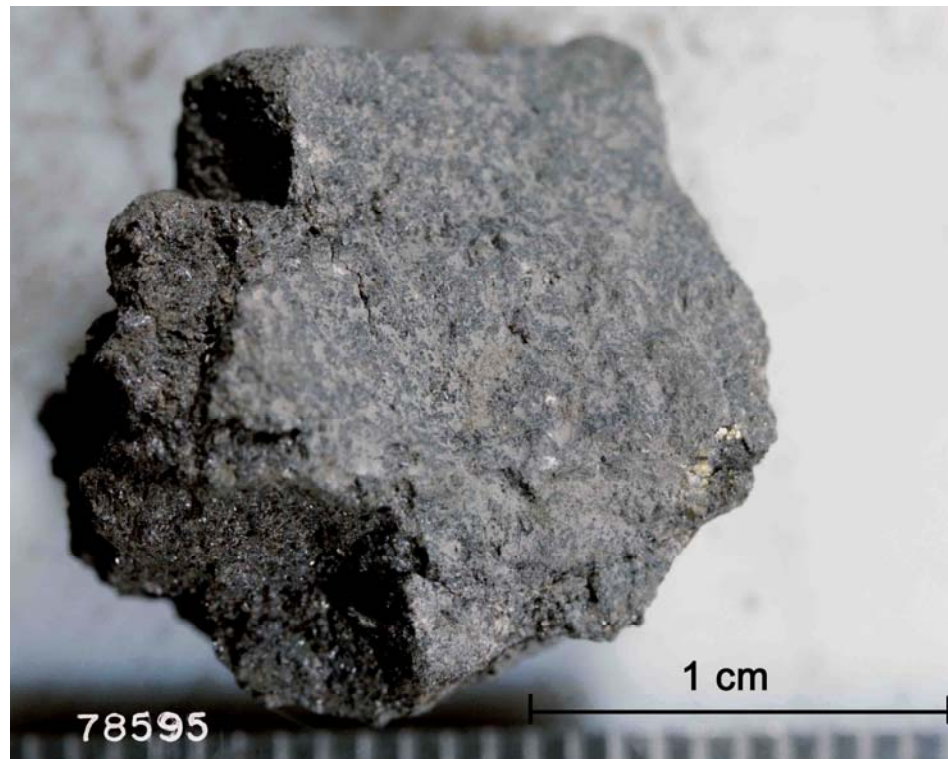


Figure 1: Photograph of 78595. Scale is 1 cm. S73-21025.



Figure 2: Photomicrograph of thin section 78595,6. Field of view is 3 x 4 mm.

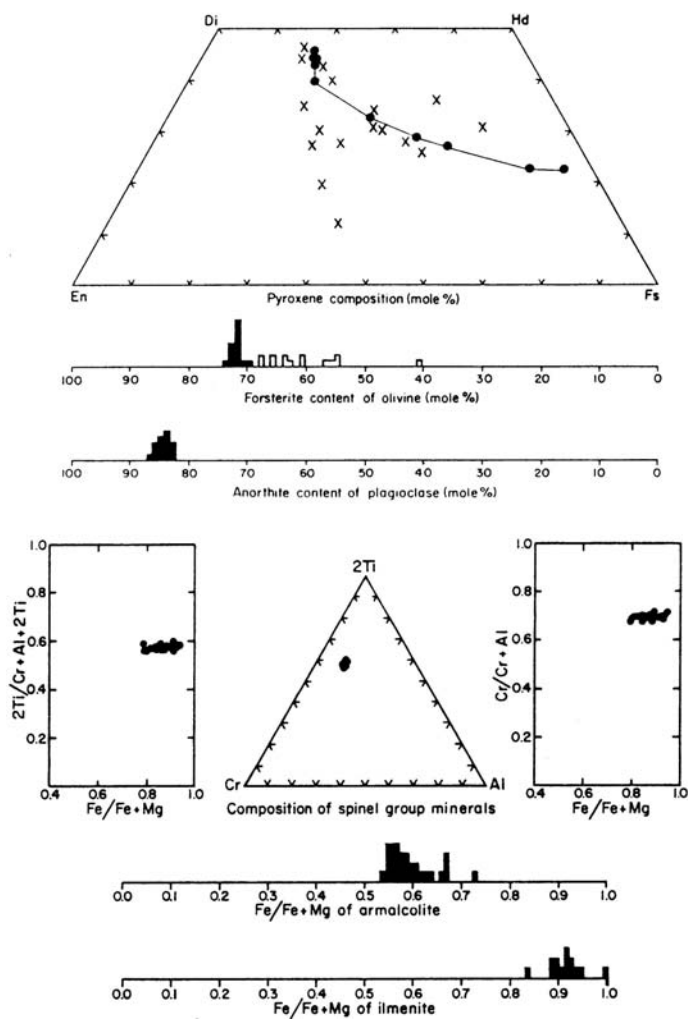


Figure 3: Mineral compositions for 78595. From Warner et al. (1978f).

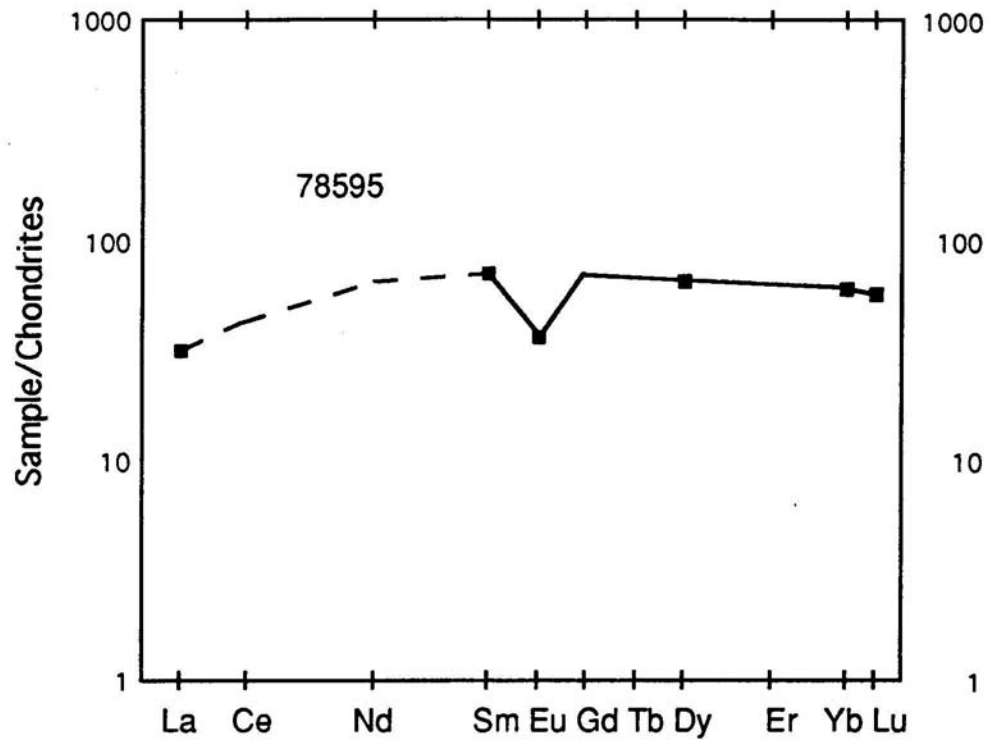


Figure 4: Normalized rare earth element diagram of 78595. Data from Warner et al. (1975a).

**Table 1: Whole-rock chemistry of 78595.**  
From Warner et al. (1975a).

<b>Split Technique</b>	<b>3 INAA</b>
SiO <sub>2</sub> (wt%)	–
TiO <sub>2</sub>	12.8
Al <sub>2</sub> O <sub>3</sub>	9.0
Cr <sub>2</sub> O <sub>3</sub>	0.443
FeO	19.9
MnO	0.253
MgO	9.1
CaO	11.0
Na <sub>2</sub> O	0.387
K <sub>2</sub> O	0.063
Nb (ppm)	
Ni	
Co	20.5
Sc	86
La	7.5
Ce	
Nd	
Sm	10.5
Eu	2.05
Gd	
Tb	
Dy	16
Er	
Yb	9.9
Lu	1.4
Ge (ppb)	
Ir	
Au	