

78526
Green Glass
8.8 grams



Figure 1: Photo of 78526. Scale in mm. S73-21027.

Introduction

78526 is a rake sample – see section on 78501. It contains both green glass and basalt clasts. The glass has very low trace element content.

Petrography

Warner et al. (1978) found two textural domains. In one, the green glass has feathery pyroxene and acicular, chain olivine and pyroxene. In the other, the green glass has small, hopper olivines and tiny chromite euhedra.

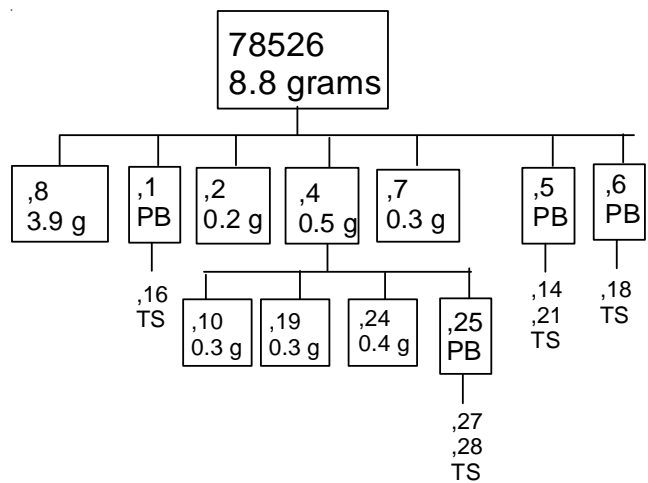
Relic grains of olivine, pigeonite, plagioclase, chromite and metal occur in the glass and two types of very low-Ti mare basalt are present as lithic relicts – one has porphyric texture, the other a granular texture.

Chemistry

Laul and Schmitt (1975) and Murali et al. (1977) reported analyses (figure 5). Jovanovic and Reed (1978) reported Cl, Br, I, U and P.

Processing

There are 6 thin sections of 78526.



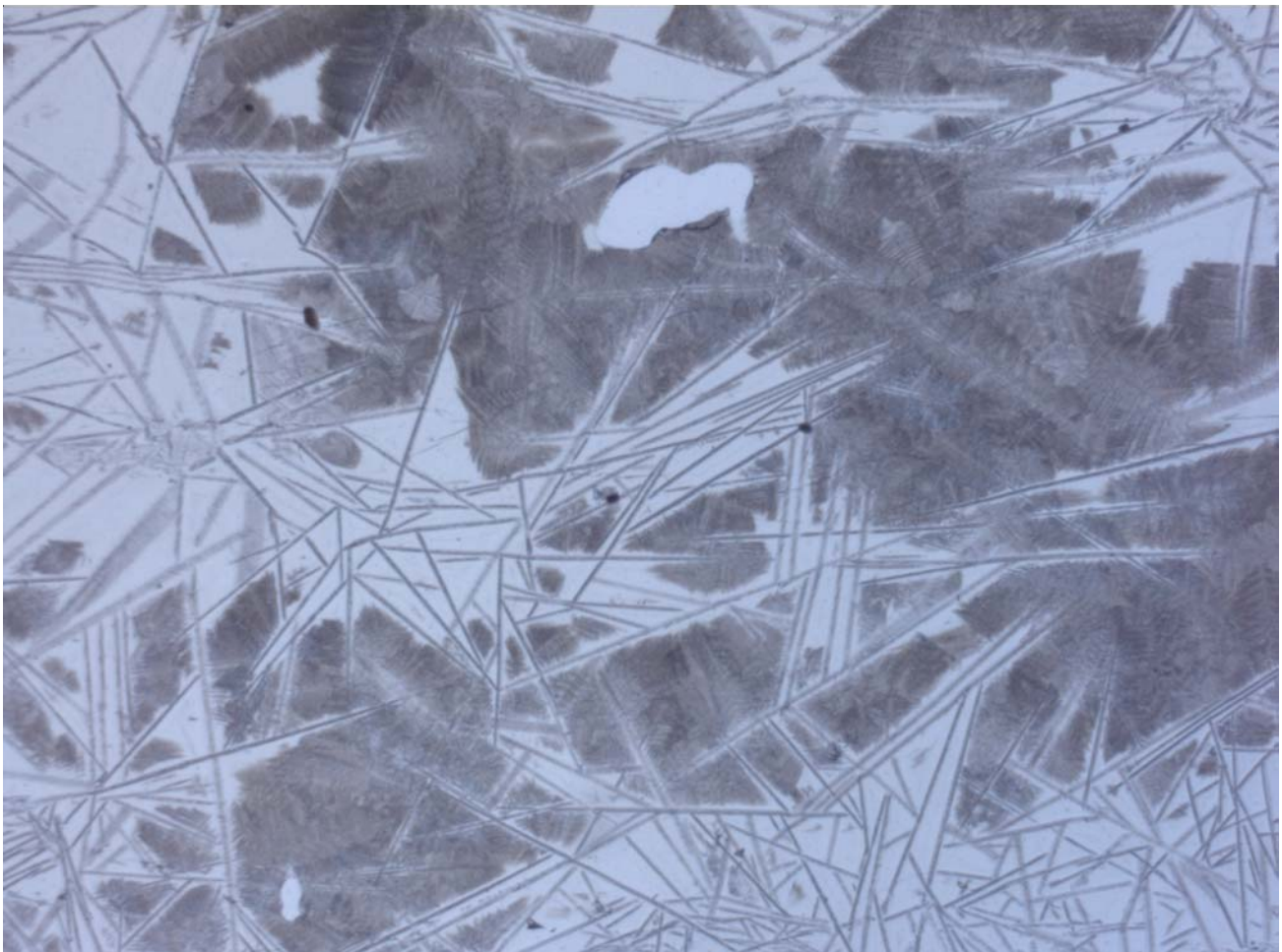


Figure 2: Photomicrograph of 78526,18. 2 mm across

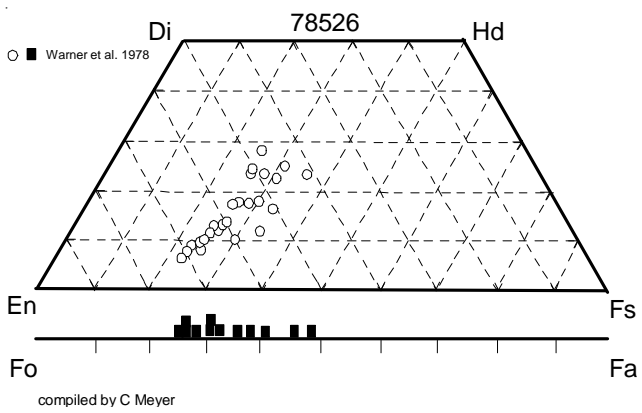


Figure 3: Composition of olivine and pyroxene in 78526.



Figure 4: Processing photo of 78526. S76-21922. Scale is metric.

Table 1. Chemical composition of 78526

reference weight	Warner78		Murali77		Laul75	
SiO ₂ %						
TiO ₂	0.8	1.1	(a) 1.1	0.8	(b)	
Al ₂ O ₃	11.1	10.7	(a) 10.7	11.1	(b)	
FeO	17.4	17.6	(a) 17.6	17.4	(b)	
MnO	0.26	0.28	(a) 0.278	0.26	(b)	
MgO	11	12	(a) 12	11	(b)	
CaO	10	9.7	(a) 9.7	10	(b)	
Na ₂ O	0.15	0.16	(a) 0.16	0.15	(b)	
K ₂ O	0.02	0.02	(a) 0.015	0.02	(b)	
P ₂ O ₅						
S %						
sum						
Sc ppm			48	51	(b)	
V			237	220	(b)	
Cr	5060	7000	(a)			
Co			44	45.4	(b)	
Ni						
Cu						
Zn						
Ga						
Ge ppb						
As						
Se						
Rb						
Sr						
Y						
Zr			226		(b)	
Nb						
Mo						
Ru						
Rh						
Pd ppb						
Ag ppb						
Cd ppb						
In ppb						
Sn ppb						
Sb ppb						
Te ppb						
Cs ppm						
Ba						
La			1.3	1.2	(b)	
Ce						
Pr						
Nd						
Sm			1.1	1	(b)	
Eu			0.25	0.3	(b)	
Gd						
Tb			0.27	0.28	(b)	
Dy			1.8	2	(b)	
Ho						
Er						
Tm						
Yb			1.4	1.4	(b)	
Lu			0.24	0.23	(b)	
Hf			0.7	0.5	(b)	
Ta			0.05	0.06	(b)	
W ppb						
Re ppb						
Os ppb						
Ir ppb						
Pt ppb						
Au ppb						
Th ppm						
U ppm						

technique: (a) e. probe, (b) INAA

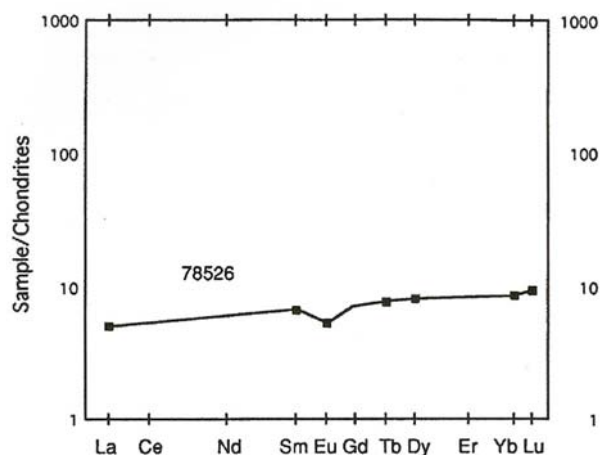


Figure 5: This unusual rare earth element pattern must mean something.

References for 78526

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