Introduction
74245 was found in the soil sample (74240) collected from the end of the trench dug at Shorty Crater (see section on 74220). It is an aphanitic basalt.

Petrography
Brown et al. (1975) reported the mineral mode for 74245 finding a high percentage of “opaque” glass. Small phenocrysts of olivine are Fo79. Phenocrysts of armalcolite are present. The overall texture is that of a basaltic vitrophyre (figure 4).

Usselman et al. (1975) determined the cooling rate (15-25 deg./hr.).

Chemistry
Neal (2001), Rhodes et al. (1975) and Warner et al. (1975) all reported chemical analyses. The Rb content is relatively high (type C?).

Radiogenic age dating
Apollo 17 mare basalts are generally considered 3.72 ± 0.04 b.y. old (see Paces et al. 1991). Nyquist et al. (1975) determined Rb, Sr and Sr⁸⁷/⁸⁶.

Processing
74245 was cut by band saw and there are 5 thin sections.
Figure 4: False color image of thin section of 74245. 2.8 mm across.

References for 74245


LSPET (1973) Apollo 17 lunar samples: Chemical and petrographic description. Science 182, 659-672.

Table 1. Chemical composition of 74245.

<table>
<thead>
<tr>
<th>reference</th>
<th>Neal2001</th>
<th>Rhodes76</th>
<th>Warner75</th>
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<tr>
<td>weight</td>
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<tr>
<td>SiO2 %</td>
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<td>TiO2</td>
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<td>S %</td>
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**Sc ppm** | 74 (a) | 77 (c) | 77 (c) |
**V**      | 139 (a) |          | 123 (c) |
**Cr**     | 3399 (a)| 3700 (b)| 3578 (c)|
**Co**     | 28 (a)  | 23.6 (c)| 23 (c)  |
**Ni**     | 8.9 (a) |          |          |
**Cu**     | 51.6 (a)|          |          |
**Zn**     | 111 (a) |          |          |
**Ga**     | 3.46 (a)|          |          |
**Ge ppb** |         |          |          |


