76539
Vitrophyric Basalt
14.8 grams

Introduction
76539 is a small aphanitic basalt found in the rake sample collected at station 6, Apollo 17 (see sections on 76500 and 76537).

Petrography
Polished thin sections of 76539 show that it has numerous tiny phenocrysts of skeletal olivine (figure 2) and fine needles of ilmenite (seen in reflected light). The remainder is “opaque” glass.

Chemistry
The chemical composition of 76539 was determined by Rhodes et al. (1976). Trace elements were reported by Wiesmann and Hubbard (1975). Nyquist et al. (1975) reported Rb, Sr and Sr$^{87/86}$.

Radiogenic age dating
Turner was allocated a piece of 76539 for age dating.

Processing
There are 2 thin sections.

Figure 1: Photo of 76539 with mm scale bar: S73-19606
Figure 2: Photomicrograph of thin section 76539.9. 2.8 mm across
Table 1. Chemical composition of 76539.

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<tr>
<th>Element</th>
<th>Shih75</th>
<th>Rhodes76</th>
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<td>SiO2 %</td>
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technique: (a) IDMS, (b) INAA, (c) XRF
References for 76539


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


