

Los Angeles

Los Angeles County, California, USA

Recognized 1999 October 30

Martian basalt (shergottite)

Two stones, weighing 452.6 and 245.4 g, respectively, were found by Bob Verish in his backyard while he was cleaning out a box of rocks that was part of his rock collection. The specimens may have been collected ~ 20 years ago in the Mojave Desert. Classification and mineralogy (A. Rubin, P. Warren, and J. Greenwood, *UCLA*): a basalt with a texture closely resembling that of the QUE 94201; plagioclase laths, 43.6 vol%, An<sub>41</sub>Or<sub>4</sub> to An<sub>58</sub>Or<sub>1</sub>, have been shocked to maskelynite; Ca-pyroxene, 37.7 vol%, ranges from Fs<sub>45</sub>Wo<sub>13</sub> to Fs<sub>45</sub>Wo<sub>37</sub> to Fs<sub>72</sub>Wo<sub>24</sub>; other mineral modes (in vol%), silica = 4.9, fayalite = 4.2, K-rich felsic glass = 2.4, titanomagnetite = 3.5, Ca phosphate = 2.7 (including whitlockite and chlorapatite), pyrrhotite = 0.7, and ilmenite = 0.2; contains a higher proportion of plagioclase than Shergotty or Zagami, and has pyroxene that is moderately more ferroan than that in QUE 94201. Specimens: main masses with finder; 30 g, *UCLA*; 20 g, *SI*. Note, one may encounter references to the two masses as Los Angeles 001 and 002, or stone no. 1 and stone no. 2, respectively; these are unofficial designations.