## Basaltic Eucrite (Type 5) Morocco

Specimen: 7.6 grams Full Slice 47mm x 40mm x 2mm Rim has 75% fusion crust

A complete, very fresh stone (132 g; 63mm x 43mm x 40mm) with thin black fusion crust was purchased from a Moroccan dealer at the Tucson Gem and Mineral Show by Philip C. Mani in February 2004. Classification and mineralogy (A. Irving and S. Kuehner, *UWS*): Ophitic texture. Mainly inverted pigeonite and calcic plagioclase (An<sub>88.7-89.6</sub>Or<sub>0.3-0.4</sub>) with accessory ilmenite, silica polymorph, Ti-Al-bearing chromite, orthopyroxene (as inclusions within plagioclase), and sparse troilite (mainly as blebs within silica) and altered Ni-poor iron metal. Pyroxene grains consist of coarse lamellae of augite (Fs<sub>30.6</sub>Wo<sub>37.2.</sub>, FeO/MnO = 28.1) within orthopyroxene (Fs<sub>62.7</sub>Wo<sub>1.3.</sub>, FeO/MnO = 33.0), and coarse lamellae of orthopyroxene (Fs<sub>62.1</sub>Wo<sub>1.7.</sub>, FeO/MnO = 31.1) within augite (Fs<sub>23.5</sub>Wo<sub>42.1.</sub>, FeO/MnO = 30.6). Minor secondary calcite laths occur around silica along a crack. Although the pyroxene and plagioclase compositions in this specimen are almost identical to those in NWA 3137, the textures are quite different, and these two stones are not paired. Specimens: type specimens, 20.7 g, and one polished thin section, *UWS*; main mass, *Mani*. .

— From the Mani Collection