

A spectrographic analysis of the metal given below, was made to check the suspected composition and determine the amounts of cobalt and nickel present; these two elements are almost invariably present in large proportions in metallic meteorites. The carbon content was determined chemically.

Composition of Metallic Fragment

<u>Fe - P.C.</u>	Mg - 0.07%	<u>Ni - 0.2%</u>
<u>Mn - 15%</u>	Al - 0.06	<u>Co - 0.02</u>
Si - 0.7	Zr - 0.03	Sn - 0.05
Cr - 0.7	V - 0.02	Mo - Tr.
Cu - 0.1	Ti - 0.004	<u>C - 1.18</u>

Conclusions

The analysis confirmed that the fragment had the suspected composition of a manganese steel. The low content of nickel and cobalt, and the high content of carbon and manganese, indicate that the fragment is probably of terrestrial origin. No meteorites approaching its composition have been discovered.

The original fragment should be examined for flight markings, as it was reported to be airborne; it should also be examined for mold markings.