

(Cont'd)

No magnesium was found

The analyses were made for all elements likely to be alloyed with iron

The composition of the magnetic sample is similar to AISI steel spec. 50B-20, a low-carbon, low-chromium, low-sulfur steel.

The non-magnetic material is within the specs for Hadfield's manganese steel, namely 1.0-1.4% carbon, ~~1.0-1.4%~~ 11-14% manganese, 0.2-1.0% silicon.

The trace elements found in both metals are typical of those generally found in steels.

X-ray analysis - (non-magnetic piece) - austenite, i.e., face-centered cubic iron, as in austenitic manganese steels.

"most probably produced in a foundry by dumping excess metal from ladles into a hollow in sand, a process known as 'sagging'."