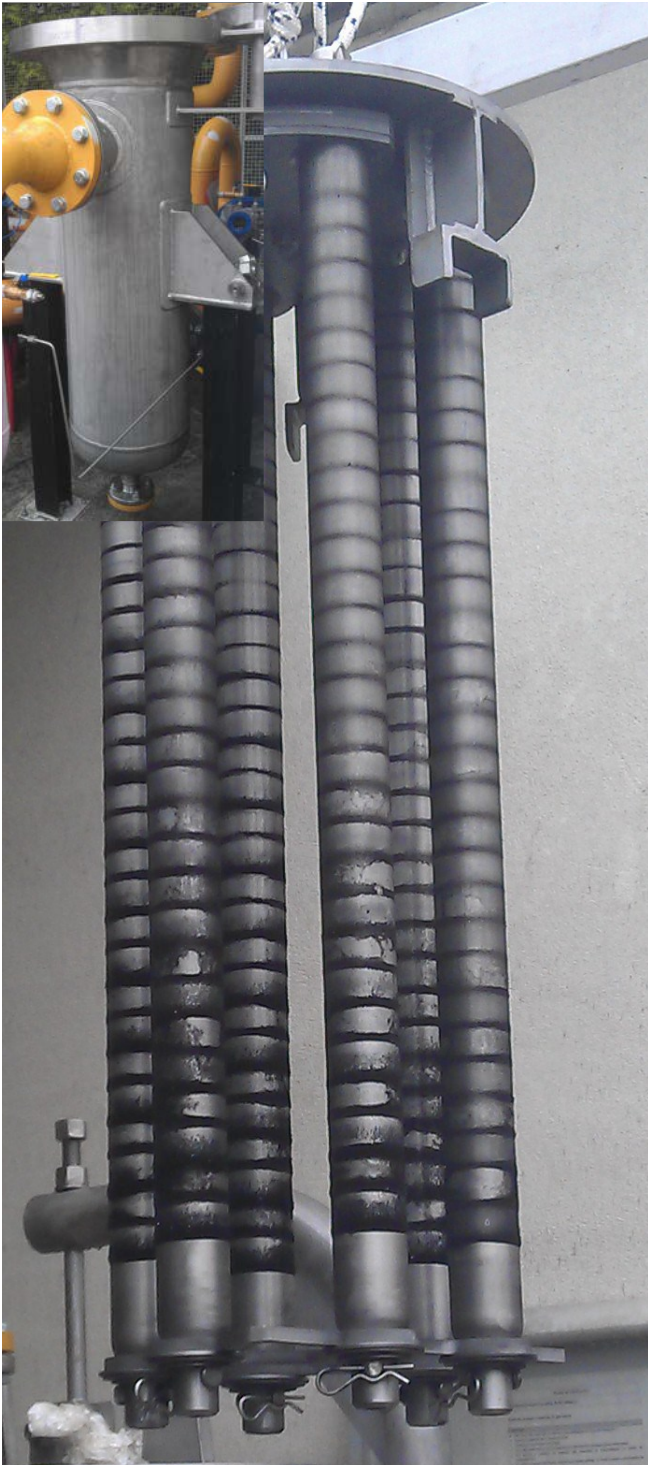


Black Powder Removal of Natural Gas Transmission Line

EDP Gas Porto, Portugal, April 2014—Current



Problem:

High volumes of Black Powder contamination were plugging off traditional depth media filtration systems in a 6" natural gas transmission line with a flow rate of 2500m³/hr.

Solution:

Arlindo Pinto dos Santos, Engineer for EDP, contacted Black Powder Solutions for a resolution to their Black Powder issues. BPS suggested the installation of a Magnetic Separator prior to the depth media filters to remove this Black Powder ferrous and non-ferrous contamination to sub-micron levels.

Results:

Photo A shows the contamination removed during the first week after installation. The depth media filter employed after the BPS Magnetic Separator was clean identifying 95+% of the Black Powder was trapped on the Magnetic Separator Rods. Mr. Santos is "pleased by the overall performance of the solution" and will be looking at installing BPS Separators on other applications.

Recommendation:

Install BPS Magnetic Separator technology in place of depth media filters to realize cleaner gas, less flow restriction, reduced maintenance costs on valves, flow meters, and extended pipe wall life thereby improved production integrity of the pipeline.