

Natural Gas Transmission Line

Portugal

Problem

High volumes of black powder contamination in natural gas feed stock were plugging off conventional filtration systems on a 6" OD natural gas transmission line with a flow rate of 2,500 m³/hr.

Solution

Install a magnetic separator system upstream of the depth media filters to remove both ferrous and non-ferrous black powder down to sub-micron levels without impeding flow.

Results

The photo shows contamination removed after the system's first week of operation. Conventional filters downstream remained clean, helping to identify that 95+% of the black powder was removed by the magnetic separator elements.

