CBM Coalescing Pipeline Filters

Series R100 Horizontal - Design Pressures to 3000 psig

The largest natural gas supplier in the Appalachian basin recently installed Sparks™ R100 coalescing pipeline filters at two coal bed methane (CBM) operations in western Virginia. The filter units have been in continuous, service free operation for 6 months.

Seven million cubic feet per day of natural gas is filtered at the manifold head of ten gas wells, removing water, liquid mist, coal dust, and sand to protect downstream *Caterpillar* engines and two compressors. The Sparks Filter™ replaces a competitive horizontal filter housing which required costly service and element change out of $800 plus 3 hours labor each week, often setting off the alarm on weekends, that required an 8 hour shift.

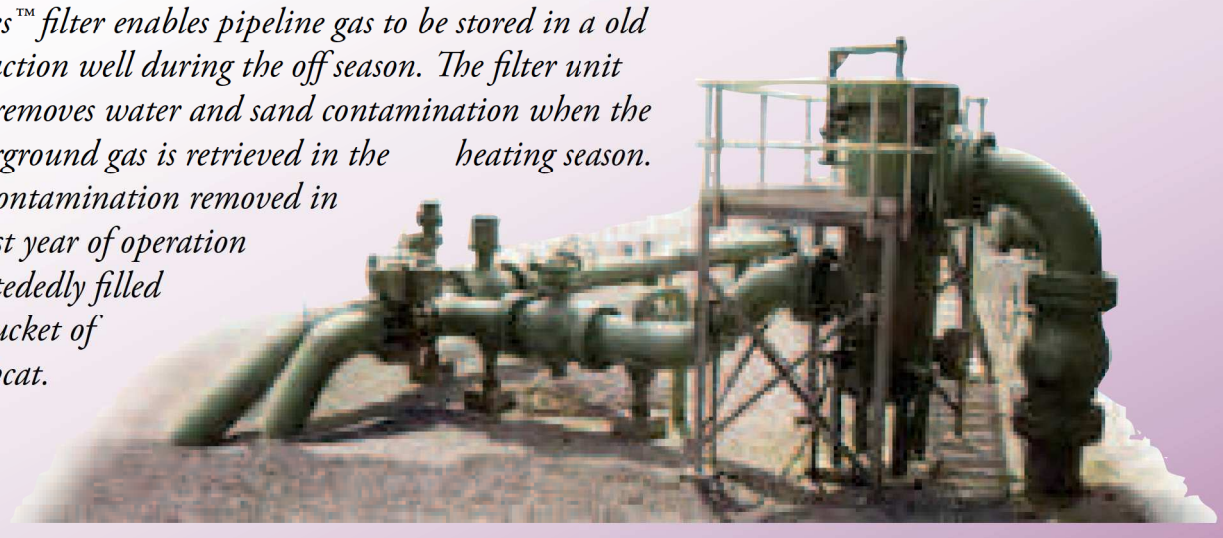
The assistant supervisor for the south West Virginia district recently said, "Why aren't we using these everywhere?" One hundred wells may be in line for new filters.

The R-Series filter-separators use replaceable filter elements proven in 4 years of well head service at Seneca Rocks, WV to provide safe and efficient operation, convenient access, and exceptional service life. Their large rugged filter elements have screen jacketed open pleat media to combine high efficiency with low ΔP.

A Field Proven CBM Filter. *This revolutionary pipeline filter replaced a competitive unit (seen to the right) that required seven 4" x 36" elements. The new Sparks Series R100 filter with 3 elements has operated continously for 6 months, without service, saving the CBM producer 75 hours of remote field maintenance and over $20,000 in replacement filter elements.*

R Series filters remove the solid particles and liquids from natural gas, vastly reducing or eliminating service to engines, turbines and other compressors, valves and meters. The new R100 filters permit horizontal service, vertical elements, turbulence baffled "Slug Catchers", & dual sump automated purge valves. Quick opening closures enable simple element change out.

A Field Proven Filter Design. *This verticle R Series Sparks™ filter enables pipeline gas to be stored in a old production well during the off season. The filter unit then removes water and sand contamination when the underground gas is retrieved in the heating season. The contamination removed in its first year of operation reportededly filled the bucket of a Bobcat.*



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