

Oilfield Service Company Reduces Lost Frac Days with Magmeter Technology

RESULTS

- Reduced lost time with intelligent device diagnostics
- Improved operations per frac design with highly accurate and reliable measurements
- Increased safety and maintenance ease with victaulic end connections

APPLICATION

Frac fluid flow discharge on an oilfield services blending unit.

CUSTOMER

Oilfield Service company operating on and offshore in the United States.

CHALLENGE

Providing a reliable and accurate measurement of flow on the discharge side of a blender was a challenge for one oilfield service (OFS) company in the United States. Their instrument equipment takes a beating every day driving to and from location on gravel roads and vibrates aggressively during normal operations. This far from ideal environment may cause an instrument to experience intermittent failures and/or result in an inaccurate measurement. These characteristics in an instrument used for billing are not welcome on an operation with hundreds of thousands of dollars at stake. If a frac day is lost, the well may not be placed on production for 7 days or more.

SOLUTION

This oilfield service company found good reason to switch to Emerson Process Management as its sole provider of magmeters. Rosemount 8700 Series Magnetic Flowmeters provided both reliable and accurate measurements which minimized lost time and enabled them to successfully achieve their frac design with no billing discrepancies. In the event of a failure, which is expected in these intense operations, these intelligent field devices provided diagnostic information, which enabled troubleshooting of problems more quickly and minimized lost time. When replacement was required, the victaulic end connections enabled faster removal and replacement with minimal lifting, compared to standard flanged connections.



A failure on the discharge flow measurement will lead to lost time, and even more seriously, a lost frac day.



The Rosemount 8707 Magnetic Flowtube

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EMERSON[™]
Process Management

Rosemount magmeters also reduced maintenance costs and increased safety. Since Rosemount magmeters have no moving parts, the frac crews did not have to spend significant time during or after the operation maintaining their equipment. Crews were able to leave the shop once they arrived so they could get valuable sleep and rest time, to be ready for the following day.

As a result, the Rosemount 8700 Series Magnetic Flowmeters reduced lost time and maintenance costs, and increased the safety of the frac operation. All of these qualities make the Rosemount 8700 Series Magnetic Flowmeters Oilfield Ready™.

RESOURCES

<http://www.emersonprocess.com/rosemount/document/pds/8700.pdf>

*Rosemount 8700 Series
Magnetic Flowmeters reduce
lost time, maintenance costs,
and increased the safety of
frac operations.*

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