

A Leading Oilfield in China Enhanced Safety Using Emerson Coriolis Technology

RESULTS

- Accurate measurement of density of fracking fluid
- Advanced diagnostics furnished by the built-in Smart Meter Verification software
- Ease of installation, storage and interchangeability
- Enhance safety of personnel by replacing nuclear densitometers at site
- 50% savings in costs associated with transportation, storage and regulatory approvals of nuclear densitometers



APPLICATION

Density measurement of fracking fluid in oilfield

CUSTOMER

A leading oilfield services company

CHALLENGE

A leading oilfield services and downhole engineering company provides downhole operations and services such as well intervention, overhaul, sidetrack drilling, fracturing and acidizing, and formation testing fracking service to oilfield companies.

Previously, density measurement of fracking fluid was done by installing nuclear densitometers in the sand mixing trucks. These meters were costly and posed health and safety risks to the operators. As such, the company explored alternatives that could enhance the safety of their personnel.

SOLUTION

The Micro Motion™ T150 model (1.5") Coriolis flow meter was fitted on the sand mixing trucks supplied by the fracking equipment company. Density measurement with high accuracy using T-Series flow meters helped to provide safe, reliable and simple measurement of pounds of sand added (PSA) to the fracking fluid. The straight tube design of the Coriolis flow meters minimized and eliminated erosion due to sand content in the

“We were able to get consistent accurate density measurement of fracking fluid from Micro Motion Coriolis flow meters. The built-in Smart Meter Verification software with in-situ diagnostics helped to eliminate periodic calibration at site. Also, the solution met our objective to enhance safety of our process and our operators.”

– Operations Manager at a major oilfield in China



Micro Motion T-Series Coriolis Flow and Density Meters provides the best single straight tube mass flow measurement to reduce variability in process control

process. It also provides advanced diagnostics through the built-in Smart Meter Verification software, which also reduced the requirement for field calibration.

RESOURCES

Micro Motion T-Series Coriolis Flow and Density Meters

<https://www.emerson.com/documents/automation/product-data-sheet-t-series-sensor-micro-motion-en-66298.pdf>

Emerson Oil & Gas Industry

https://www.emerson.com/en-us/industries/automation/oil-gas?utm_source=mmi-s&utm_medium=vtye&utm_content=oil_and_gas&utm_campaign=17gmmi-oilgas01



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