OIL AND GAS PRODUCTION OPTIMIZATION

Enhance production control and increase flow assurance with sand and erosion monitoring solutions.

Maintain Asset Integrity and Optimize Oil and Gas Production

Solids production can result in erosion, leading to loss of containment events and flow lines clogging, resulting in unplanned outages. Detection and monitoring of solids production and erosion impact on the asset health enable optimized production through evidence-based decisions.

Quantify the Risk of Erosion

During production, varying solids are produced depending on the lifecycle of the well. Measuring the rate of solids are key indicators of risk for erosion or solids accumulation and are used to mitigate those risks while optimizing production.

Reduce Damage on Choke and Rotating Equipment

Increasing flow increases erosion risk, forcing operators to produce below the optimal production rates. Monitoring this using both acoustic sensors and ultrasonic thickness transmitters maximizes the well's production potential.

Enhance Reservoir Performance

A combination of the historical flow regime and erosion monitoring data can be leveraged to enhance reservoir performance and overcome challenging stages during fracking operations to maximize hydrocarbon recovery while ensuring asset safety.

Real-Time Sand and Erosion Measurements

Wall Thickness Measurement

The Rosemount™ Wireless ET210 Corrosion and Erosion Transmitter is designed to continuously measure wall thickness in pipes and vessels using ultrasonic technology (UT). The Rosemount ET210 Transmitter is non-intrusive and battery-powered, allowing for quick and straightforward magnetic installation over erosion hotspots in both single or multiple unit arrangements. The Rosemount ET210 delivers data via *Wireless*HART®, enabling secure and cost-effective data retrieval to desk.

Rosemount Wireless ET210 Transmitter

Solids Intensity and Rate Measurement

The Rosemount SAM42 Acoustic Particle Monitor is a non-intrusive device designed to measure intensity of solids as well as the rate in oil and gas flow lines using acoustic technology. The Rosemount SAM42 is installed at a bend and data is retrieved directly to your Distributed Control System (DCS).

Rosemount SAM42 Acoustic Particle Monitor

For more information, visit
Emerson.com/Corrosion-Erosion

00807-0900-4210 Rev AB

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