



FIELD EXPERIENCES USING THE ROXAR MULTIPHASE METER IN TIGHT OIL SHALE FLOWBACK OPERATIONS

Customer

An operator in the Eagle Ford shale play in North America

Application

Unconventional oil well production

Challenge

Flowback is the primary stage of frack water recovery, and traditionally involves the use of a separator. An operator in the Eagle Ford shale play was interested in evaluating the performance of the Roxar™ 2600 Multiphase Flow Meter (MPFM) for the flowback period. The operator wanted to evidence if the meter performed to their requirements, and what value they may be able to utilize from the high resolution, real-time data.

Solution

A Roxar 2600 Multiphase Flow Meter was installed in a flowback application. A test separator was also in place, in order to verify performance. The Roxar 2600 MPFM was proven to provide high quality flow rates, closely matching separator results. Both Emerson and the operator consider the testing to be successful, concluding the Roxar 2600 MPFM is a suitable measurement solution for flowback operations.

Results

- Roxar 2600 MPFM proven to be suitable instruments for flowback operations
- Improved integrity of operator assets with Roxar Acoustic Sand Monitor



Image 1. A proven measurement solution for flowback operations, arming the operator with high resolution, real-time data to guide production optimization activities.

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A Roxar Acoustic Sand Monitor was installed on the skid arrangement. This intelligent non-intrusive device provided immediate indication to the onset of sand and particle production. Integrated with the Roxar 2600 MPFM, the operator obtained indications of sand volumes. In this particular field test, the shale well produced significant quantities of sand and other particles.

The Roxar 2600 MPFM provided high resolution, real-time data, and combined with the Roxar Sand Monitor, the operator was provided with considerable insight into the dynamics of the flowback production. This armed the operator with data to make informed decisions to optimize the flowback period.

Resources

Multiphase Flow Measurement
[Emerson.com/RoxarMultiphaseFlowMeasurement](https://emerson.com/roxar/multiphase-flow-measurement)

Roxar 2600 Multiphase Flow Meter
[Emerson.com/Roxar2600MPFM](https://emerson.com/roxar/2600-mpfm)

Roxar SAM Acoustic Sand Monitor
[Emerson.com/RoxarSAM](https://emerson.com/roxar/sam)



Image 2. The Roxar Acoustic Sand Monitor installed on the skid arrangement for the Roxar 2600 MPFM



Image 3. The Roxar 2600 Multiphase Flow Meter

For more information, visit
[Emerson.com/Roxar](https://emerson.com/roxar)

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