



SGS PROVIDE WELL TESTING SERVICES IN POST ACIDIZATION CONDITIONS WITH THE ROXAR 2600 MULTIPHASE FLOW METER

Customer

Société Générale de Surveillance S.A. (SGS)

Application

Onshore and offshore multiphase flow measurement

Challenge

SGS offers onshore and offshore surface well test solutions, based on extensive field experience, enabling operators to achieve operational efficiency and quality data. An extended period of well testing services was required by an operator during the drilling and completion phase on an offshore platform in Indonesia. The measurement device needed to be suitable for use after the production stimulation treatment of acidization had been performed. In addition, there were weight and space constraints, due to the need for bulky sand mitigation equipment, so the customer required a compact solution.

Solution

SGS proposed a solution including the Roxar™ 2600 Multiphase Flow Meter (MPFM) as the measurement instrument, given it is both compact and lightweight. This was suitable for the space available on the platform.

SGS performed initial testing with the portable solution including the Roxar 2600 MPFM, which the operator concluded to be successful. Following this initial test, SGS secured a 3-year contract to provide the well testing services and utilized the Roxar 2600 MPFM as the measurement instrument.

Results

- Compact and lightweight solution, suitable for the location and post acidization conditions
- Robust measurement provided for low flowing wells and slugging conditions
- Real-time data supporting production optimization



Image 1. The Roxar 2600 MPFM in use in field

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The operator was very satisfied with the ability of the Roxar 2600 MPFM to measure very low flow rates, and the quality of measurement in slugging flow conditions. The operator had previous experience with conventional separators performing poorly in these conditions. SGS also evidenced the robustness of the solution to the post acidization conditions.

In addition to the robust, reliable measurement, the data provided by the Roxar 2600 MPFM enabled the operator to optimize production. Choke settings were changed, and gas lift injection optimized, based on insights provided by the Roxar 2600 MPFM.

Resources

Multiphase Flow Measurement
[Emerson.com/RoxarMultiphaseFlowMeasurement](https://emerson.com/RoxarMultiphaseFlowMeasurement)

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

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In real time data comparison between the MPFM and 3-phase separator, the client was very appreciative of the consistent and accurate data corresponding to the changes of the well with no loss of data throughout, even though they experienced foamy, effluent and very low flow rates, which was difficult for the conventional separator to accommodate. The client proceeded to designate the MPFM as the main data acquisition source for the remainder of the campaign.

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*Kadek Suryadarma
SGS WT & MPFM Engineer*

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[Emerson.com/Roxar](https://emerson.com/Roxar)

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