



SGS PROVIDE WELL TESTING SERVICES FOR CONDENSATE WELLS IN PAPUA NEW GUINEA

Customer

Société Générale de Surveillance S.A. (SGS)

Application

Interference testing of condensate wells

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 operator in Papua New Guinea reached out to SGS with a requirement for reservoir performance evaluation. The operator was running a well test program, with clean up and interference testing to evaluate the performance of the reservoir. The required testing was in a remote mountain location, which created transportation challenges. All instrumentation required needed to be transported to the site by helicopter. There were therefore weight limitations in place that needed to be respected.

Solution

SGS provided a compact and lightweight skid arrangement including the Roxar™ 2600 Multiphase Flow Meter (MPFM) and two separator units. The separators had to be small in order to be within the weight limitation. All three measurement solutions were transported to the remote site successfully by helicopter. When testing started however, it was found the two separators were undersized for the production rates of the majority of the wells. Therefore, the interference testing was performed with the Roxar 2600 MPFM as the key measurement instrument.

Results

- Compact and lightweight solution, suitable for transportation by helicopter
- High flow rate measurement capabilities with a small instrument footprint
- Real-time and continuous measurement provided at different choke settings and flow rates



Image 1. The Roxar 2600 MPFM in skid arrangement in Papua New Guinea

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The operating range of the Roxar 2600 MPFM supported quality measurement of high flow rates, within a compact and lightweight solution.

The real-time continuous data available from the Roxar 2600 MPFM supported SGS' ability to provide well test data without any loss of time, achieving all testing requested within a 14-day period. 5 different choke settings were used for each well, in order to check interference with various production rates. The data provided was instrumental in the operators' ability to analyze reservoir performance.

Ultimately, SGS was able to support the operator with all their measurement needs, with the use of the Roxar 2600 MPFM.

Resources

Multiphase Flow Measurement

[Emerson.com/RoxarMultiphaseFlowMeasurement](https://emerson.com/rozar/multiphase-flow-measurement)

Roxar 2600 Multiphase Flow Meter

[Emerson.com/Roxar2600MPFM](https://emerson.com/rozar/2600mpfm)

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The MPFM, with its compact solution making it heli portable, was used as the main measurement instrument throughout the test, with accurate and excellent results from medium to high flow rate testing on this remote exploration project.

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Ke Peng

SGS Senior Technical Advisor

For more information, visit

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

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