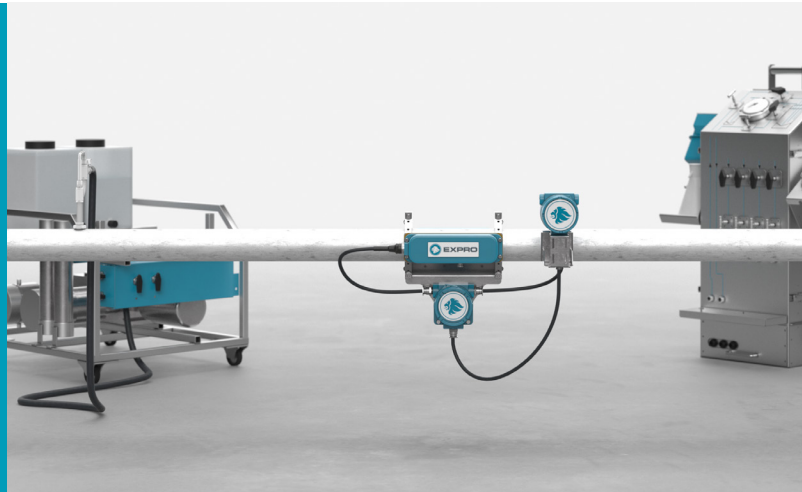


Expro Excellence

Portable low carbon footprint solution for Wet Gas deliverability and production testing

Well Flow Management | Flow Surveillance



Objectives and background

- A major operator in MENA with multiple wells in tight gas fields aimed to improve testing efficiency for new and existing wells
- They had been using a conventional well-test setup with a separator, tanks, and sand management, and the large setup had presented challenges
- Separator continuous measurements of liquid rates were not possible due to low flow rates, the flow was periodically directed to the tank to allow the measurements
- They have been exploring more efficient and accurate testing solutions to address the logistical and measurement challenges
- Expro deployed QPulse™ alongside the existing well-test package for the first time to evaluate the technology

Expro Excellence

- Expro's QPulse™ solution, a non-intrusive, portable multiphase flow surveillance solution that uses proprietary SONAR technology combined with MultiTrace® technology
- QPulse™ solution measures the gas, water and condensate flow rates without any piping modification, flow diversion or well shutdown
- Expro started measuring the gas and liquid flow rates from the initial period of well start-up through the test duration
- The system delivered reliable measurements from well start-up throughout the testing period, outperforming the traditional test separator method on the liquid rates by providing continuous data rather than periodic averages
- QPulse™ is further deployed across two tight gas fields to test the technology on a large span of surface conditions and flow rates yielding excellent metering performance of gas, oil and water measurements

Value to the client

- Accurate testing solution which provided robust measurement unaffected by CO₂ or solids
- Early gas rates and liquid rates down to a few barrels/day independent of PVT inputs
- Small footprint solution implemented across the field facilitated a faster deployment, enabling a higher testing frequency
- A lower carbon footprint allows operators to receive the required data as well as meet mutual environmental goals of reducing CO₂ emissions

Time saving



Enhanced production



Lower carbon footprint

