



ONE **STEP** AHEAD...

# Investigate size of annulus leak rates on four suspect wells

## Industry Challenge

- Investigate B annulus sustained pressure on four wells by flowing through specialist measurement skid to determine inflow leak rate
- Collect and record the following data:  
B annulus flow and density values during bleed-off  
C annulus and Tubing head pressures simultaneously during bleed off operations

## Operational Targets

- Mobilise Coriolis measurement and data recording skid suitable to measure gas flow at low rates
- Recover and record all data on each well for B annulus, C annulus and Tubing head pressure for analysis

## Intervention Solution

- Design and mobilise flow measurement and data recording skid based on Coriolis gas metering technology
- Provide detailed report on all findings

## Conclusion

- Leak rates confirmed and established for all four suspect wells
- Leak repaired by Intervention leak repair services on one well
- Performed operation safely and without incident to customer expectations



## Location

Off-shore Middle East sector

## Operation Type

B annulus casing pressure investigation

## Issues

Possible H2S hazards

## Service provided

Full Coriolis measurement and data recording skid to collect all required information for analysis

## Customer value

*Operational results indicated a leak in the tubing to annulus of one well: Intervention leak seal services were asked to repair the leak. The operation successfully sealed the leak*



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