Expro Excellence

CaTS™ ATX Acoustic system wirelessly provides SRO data and Well Control during Indonesia DST

Well Flow Management | DST-TCP | Wireless Well Solutions

Objectives and background

- As part of a multi-well E&A contract with an Operator in Indonesia, Expro deployed its proprietary acoustic telemetry system to enhance the capabilities of the downhole service
- DST objectives were discussed and agreed with Customer, and Expro's acoustic SRO technology was mobilized along with the rest of the Well Testing equipment to a land-rig located in Sumatra
- A tubing-based CaTS ATX system was configured, providing downhole pressure and temperature data via Surface Read Out (SRO), and incorporating a wireless DVX valve providing well control via wireless commands

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- Collaboration across multiple Expro Product Lines including DST/TCP, Wireless Well Solutions (WWS), Surface Well Test and TRS provided the Customer with a single point of contact to deliver the operation with optimized efficiency.
- To ensure the development of local personnel, Subject Matter Experts were engaged to provide handson training, Ops support and guidance to ensure smooth job preparation and execution
- The DST was successfully executed utilizing the CaTS ATX system to provide reliable SRO data throughout, and the wireless DVX valve providing well control with multiple cycles of its ball-valve and circulating ports

Value to the client

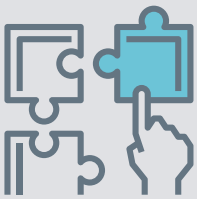
Operational efficiency:
- CaTS ATX provided SRO data throughout the operation without any disruption to the test program

Operational assurance:
- CaTS ATX SRO data confirmed key events including successful gun fire, and validating target downhole underbalance pressures had been achieved when nitrogen spotting

Operational flexibility:
- Utilizing the live CaTS ATX SRO data, the client was able to modify their test program in real time to ensure all critical well data was achieved. This included extending the final pressure build-up period to capture reservoir boundaries

Enhanced integrity:
- Utilizing the acoustic control of the DVX valve throughout the job allowed applied pressures to the well to be minimized, reducing chance of leak or equipment failure

Integrated approach



Innovative solution