

Expro Excellence

Asia performs a technology first for Expro and Petronas

Well Testing



Objectives and background

- The job was carried out in a Petronas field located in offshore Sarawak. The field is part of a cluster which supplies gas to two LNG trains located in East Malaysia
- With production declining, the objective for the customer was to drill additional wells to deliver 250 MMscf/d to both sustain and fulfil the customer's gas supply agreement commitments to supply 500 MMscf/d to both LNG plants
- Petronas drilled and completed three deviated gas wells (completed as 7" monobore's with pre-drilled liner) and engaged Expro (under the Pan Malaysia Well Test contract) for well unloading and clean-up operations with maximum planned flow rates of up to 150 MMscf/d
- This project was extremely important for the overall gas supply requirements and also for the technical user groups as this was the first time they were conducting a complete well test on a high rate gas well
- The EDGE wireless sensors, Data to Desk (D2D) and ESD SIL2 system were offered as technology differentiators to Petronas with a view to inclusion on upcoming projects under the ongoing contract
- This project incorporated the design and equipment selection parameters which were applicable to high rate flowbacks:
 - 90ft booms to minimise heat radiation
 - Water cooling and personnel protection
 - Use of green burner to minimise environmental impact

Value to the client

- The project was executed successfully and the customer was able to flow test the wells to the planned maximum rate of 150 MMscf/d
- Our EDGE wireless package was easily deployed over the rig and platform in what would otherwise have been a cumbersome wired installation
- Expro's Data to Desk service allowed real-time data to be shared via a web browser on multiple mobile data platforms – project stakeholders were very appreciative of the visibility and control. The Expro D2D application provided on this high profile project
- The Electronic-ESD SIL2 system was appreciated by Petronas engineers for its features:
 - Fast response times – critical in a high rate gas flowback application
 - Quick and easy installation
 - Real-time interface EDGE package
 - Simple interface with rig/installation
- Expro's latest technical offerings were acknowledged as significant improvements and client engineers have requested incorporation of these technologies on future projects

Expro Excellence

- The customer's test objectives for the wells required a test separator and also included several firsts for Expro in the region:
 - Vertical separator with Coriolis meter
 - EDGE wireless data acquisition
 - Data to desk service
 - ESD SIL2 system
- While these services/technologies have been provided as discrete enhancements on other projects, combining all of these in a single project constituted a first for Expro globally

24/7 monitoring



Contact

For further information please contact:
welltesting@exprogroup.com
 or visit
exprogroup.com/welltesting