Objectives

- BP required a subsea completion safety system for the well commissioning of Shah Deniz 2 (SD2), a subsea development in Azerbaijan. This project is one of BP’s largest investments requiring a 12 year drilling program to access 50 trillion cubic feet of gas.
- Particular requirements were for a fast response system rapidly securing these high rate wells while taking out some of the complexity of Expro’s deepwater electro-hydraulic control system.
- Technology that was robust for long-term use in a harsh operating environment with well pressures of up to 15,000 psi, with the capability of functioning in wells where there is the potential for debris.
- The capability to provide full local support, including a Baku facility to fully service equipment over the duration of the contract, and engineering support.
- BP were looking for a partner that would support and encourage the development of Azeri nationals.

Expro Excellence

- Expro developed a new rapid response control system, focused on safety critical functions.
- Developed a new 15K lubricator valve, based on Expro’s unique high integrity ball valve (HIBV) technology.
- Delivered a 15K ELSA-HP system on schedule and have conducted a successful SIT (system integration test).
- New facility in Baku, designed for full subsea service capability.
- Recruitment of four Azeri nationals and investment in a comprehensive training programme, that included secondments to Broussard and Aberdeen.

Value to client

- Delivery of a system that will enable the safe completion and flow back of high rate, high pressure wells.
- A system that has met BP’s exacting technical requirements and has passed through BP’s TRAP (Technical Risk Assurance Process).
- On time delivery of a complex system allowing BP to maintain the schedule on one of their most important field developments.
- Design and qualification of equipment built on established technology that meets BP’s exact requirements for the SD2 project.
- Design and qualification of equipment which has an application on other BP developments.

It has been a fantastic 18 months since the contract was awarded and based on the fact there was a lot of upfront engineering, interface project management, and riser analysis work to be conducted in the initial months, this is a fantastic achievement. Expro has been a pleasure to work with due to the one team approach and willingness to assist BP whenever required.

Graham Beattie
Subsea Wells Manager
BP Exploration (Caspian Sea) Ltd

Contact

For further information, please contact:

Colin Mackenzie
Product Line Director
Subsea
colin.mackenzie@exprogroup.com
www.exprogroup.com/subsea