

Expro Excellence

Record breaking TCP performance offshore India

DST/TCP



Objectives/background

- During September 2016, Expro commenced a three-year DST/TCP offshore contract with the Indian national oil company, ONGC. This was a significant contract win, as a major competitor had held this contract continuously for over 20 years.
- This is the world's most active E&A offshore contract, averaging 2 to 3 jobs per week, mostly on the west coast out of Mumbai, but also captures some east coast wells out of Kakinada. TCP is also utilised on some development wells where it's more cost effective than multiple wireline runs and/or when perforating the entire interval underbalance is desired.
- The gun assemblies are mainly 4.5" 5 SPF, with some 7", 12 SPF, HMX DP charges. The E&A wells utilise fully redundant firing system with a primary bottom-mounted hydraulic firing head with time delay and a secondary top-mounted safety mechanical firing head. On the development wells, only a single hydraulic firing head is deployed, with no redundancy.

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- Expro are successfully operating up to 10 DST and 12 TCP packages, which are continually deployed on offshore rigs (jack-ups, semi subs and drill-ships); these require complete servicing, redress, and gun loading at the well location; onboard the offshore vessel.
- Record breaking milestone of over 200 consecutive successful TCP jobs (and counting), totaling over 9,000 feet of guns, all of which have been fired at the first attempt using the primary firing head.
- Operating in a very challenging downhole environment, with aggressive well/fluid conditions and where bottomhole hydrostatic pressures can be in excess of 10,000 psi and temperatures up to 350°F.
- As a result of the application of new value-added technology and exceptional unparalleled service quality, Expro has retained this contract for a second three-year term

Value to the client

- Expro's operational excellence has resulted in zero lost time incidents (LTI) and zero HSE events, zero equipment failures and zero non-productive time (NPT); ensuring personnel safety and wellbeing, and operational efficiency; saving rig time and money.
- Improved client's operating and financial performance KPIs.
- During this contract, Expro's experienced team has introduced complex, cutting-edge technology which was delivered successfully and on-time; examples as follows:
 - First dual zone DST well test in India using acoustic SRO allows independent underbalanced perforating and testing of two zones with real-time monitoring and analysis to reduce and optimise build-up and flow periods - this resulted in rig time saving of over 6 days.
 - Design and application of dynamically underbalanced perforating in production wells, which naturally surge-cleaned the perforations based on pressure differentials (wellbore < formation). This cleaning allowed the well to flow, thereby eliminating the need for expensive fracturing stimulation. This provided production revenue for earlier payback to the client, and eliminated expensive pressure pumping, fracture fluid and proppant expense.

Safety



Quality standard



Innovative solution



Cost saving



Contact

For further information please contact:
dst-tcp@exprogroup.com
 or visit
exprogroup.com/dst-tcp