

Expro Excellence

FX-600™ casing run performance deepwater, west of Shetland

Well Construction | Frank's Tubular Running Services (TRS)



Objectives and background

- To deploy and make up 9 5/8 in. x 10 3/4 in. casing string using Frank's Tubular Running Services (TRS) FX-600™ CRT technology in a deep water well, west of Shetland, with zero health, safety, or environmental issues
- To reach the desired total depth (TD) in challenging open hole conditions, the client selected our FX-600™ for its ability to make up, fill up, rotate, circulate, and reciprocate the casing string simultaneously
- Zero equipment change out at 9 5/8 in. x 10 3/4 in. crossover due to the extended range capability of the FX-600™ tool provides safety enhancements and efficiency savings

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- The extended range ability of the FX-600™ CRT in combination with the SBS ensured no static time in open hole whilst changing from the 9 5/8 in. to 10 3/4 in.
- Hole conditions were challenging so the tool enabled the client to simultaneously:
 - Circulate at 1300 lpm and 48 bar (700 psi)
 - FX-600™ rotated the casing string at 40-70 rpm with torques monitored at 40 knm (30,000 ftlbs), 90% of connection maximum torque, to avoid damage to the connections and maintain well integrity
- FX-600™ CRT Driller Control module enhances safety by preventing the need for control panels and eliminating the operator being on the rig floor
 - Rig-up time saved and risks reduced as no umbilical needed to be installed in the derrick.
 - BX elevator can remain rigged up to ensure a quick rig down whilst in open hole and transition to running drill pipe landing string

Value to the client

- Casing string was successfully run to depth first time by simultaneously circulating and rotating through troublesome open hole zones
- The tool enabled controlled connection make-up, running and the monitoring of parameters to maintain well integrity, thus after cementing the string pressure tested successfully
- The FX-600™ was operated remotely by the driller with good communication in the doghouse and the Expro technician monitoring operating parameters

Safety



Cost saving

