

OverDrive™ system

Boosts Casing-Running Speeds to 9.2 Joints/hr, Reduces Rig Time



Weatherford Tubular Running Services improved casing running speeds and operational safety through the use of mechanized casing-running equipment.

Objectives

- Run casing to total depth in a 16,732-ft (5,100-m) deepwater well in the Santos Basin. Increase the average casing-running speed.
- Increase rig floor safety by eliminating manual handling of tubulars associated with conventional casing-running equipment

Our Approach

- Weatherford deployed the remotely operated OverDrive casing running and drilling system to run the 13 3/8- x 13 5/8-in. casing string to TD. The OverDrive system eliminates the need for conventional manual handling, which enhances safety and efficiency.
- The OverDrive system used the 500-ton TorkDrive™ modular internal clamping tool (ICT), which is a combination power tong, elevator, fill-up/circulation tool, and weight compensator. The JAMPro™ torque monitoring system was used to monitor and record torque-turn data for all connections, detect damage to any threaded connections, and enable a timely solution to any potential makeup problem.
- The operation ran casing in single stands to total depth at 364 ft/hr (111 m/hr) compared to 243 ft/hr (74 m/hr) with conventional systems.

Value to Client

- The combination of the OverDrive system, JAMPro system, and TorkDrive ICT tool enabled the operator to case the hole to the planned depth with no safety issues, nonproductive time (NPT), or damaged connections.
- The Overdrive system surpassed the casing-running speed target by 1.2 joints/hr (increased from 8 to 9.2 joints/hr) which saved 0.63 hrs of rig time valued at US \$40,500.
- The OverDrive system increased rig floor safety by eliminating the manual handling of tubulars.

LOCATION

Santos Basin, Brazil

WELL TYPE

Deepwater oil

HOLE SIZE

17 1/2 in.

WELL DEPTH

16,732 ft (5,100 m)

CASING SIZE

13 3/8- x 13 5/8-in.

CASING-RUNNING SPEED

9.2 joints/hr

PRODUCTS/SERVICES

- Tubular Running Services
- OverDrive system
- TorkDrive™ modular ICT
- JamPro™ software
- TorkSub™ wireless load cell

