



# Weatherford®

## REAL RESULTS

### OverDrive™ System and Top-Drive Rotating Cementing Head Combine to Run Casing to TD, Perform Safe, Efficient Cement Job

#### Objectives

- Run 9 5/8-in. premium casing string and 10 3/4-in. casing string to total depth (TD) without the use of conventional casing-running equipment, increasing efficiency and reducing manual handling and quantity of rig-floor personnel.
- Enhance personnel and environmental safety by providing an accident- and incident-free operation.

#### Results

- Weatherford deployed the remotely operated *OverDrive* system and top-drive rotating cementing head combo, featuring the *TorkDrive*™ 500 Modular (M) tool.
- The *TorkSub*™ torque measuring system and the *JAMPro*™ joint-analyzed makeup system ensured fast, accurate makeup of premium connections.
- The *OverDrive* system enabled the operator to run the entire casing string and successfully reach TD after 7 consecutive days of circulation and reciprocation, which would have been impossible with conventional casing-running equipment.
- A total of 466 connections were made with only four re-runs and no rejects or crossed threads because of the thread-compensation system.
- Weatherford personnel rigged up the cementing head as a single assembly with preinstalled plugs in a reduced time of 45 min, and the 9 5/8-in. × 10 3/4-in. cement plugs were successfully launched with subsequent visual confirmation.
- Competent and trained personnel completed all operations without errors or incidents.



Weatherford's *TorkDrive* tool significantly improved the efficiency of casing-running and cementing operations by enabling the operator to simultaneously fill up, circulate, and reciprocate the casing string.

#### Location

Cabinda, Angola

#### Rig Type

Tender barge

#### Well Type

Exploratory

#### Hole Size and Angle

12-1/4 in., 70° deviation

#### Casing Type and Size

- 9 5/8-in., 47.0-lb, L-80 Tenaris Blue®
- 10 3/4-in., 60.7-lb, L-80 AMS

#### Depth

19,585 ft (5,970 m)

#### Products/Services

- Tubular running services
- *OverDrive* casing-running and drilling system
  - *TorkDrive* 500 M tool
- *TorkSub* torque-measuring system
- *JAMPro* joint-analyzed makeup system
- Integrated safety interlock system
- 13 5/8-in. remotely operated inline cementing head

TSH Blue is a registered trademark of Tenaris Connections B.V.

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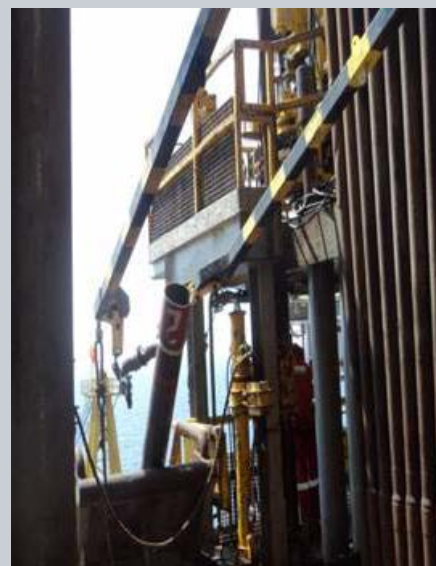


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### Value to Client

- The capability of the OverDrive™ system to continuously fill up, circulate, and reciprocate the casing enabled the operator to avoid setting the casing early and reach the desired depth 20 hr shorter than expected.
- The JAMPro™ system verified the connection integrity of all made-up tubulars, eliminating makeup problems and the associated nonproductive time.
- The 13 5/8-in. preassembled, top-drive rotating cementing head eliminated the need to rig down the casing-running equipment prior to the cement job, saving significant time.
- The remotely operated *OverDrive* system and top-drive rotating cementing head combo enhanced safety by minimizing manual handling and the number of personnel, including a stabber in the derrick.



The *OverDrive* system's link-tilt bails hoisted the casing joint into the derrick, eliminating the need for a stabber working at heights.



The *OverDrive* system and the top-drive rotating cementing head combo reduced the manual handling of equipment and minimized downtime when transitioning from casing-running to cementing operations.