



# Weatherford®

## REAL RESULTS

### Algeria: OverDrive™ System Enhances Safety, Dramatically Improves Casing Running Speed

#### Objectives

- Run a 13 3/8-in. BTC casing string to total depth (TD) efficiently and without sacrificing connection integrity.
- Conduct the operation without personal injury or environmental issues by reducing manual handling and the number of personnel on the rig floor.
- Reduce the time and costs associated with conventional tubular running operations.

#### Results

- The *OverDrive* system—including the *TorkDrive*™ casing running and drilling tool, the *TorkSub*™ electronic load cell, and the *JAMPro*™ joint-analyzed makeup system—was used to successfully run the entire string, including the shoe track, to bottom, eliminating the need for conventional casing running equipment.
- There were no incidents, and the operation was error free. The *OverDrive* system's integral weight compensator neutralized tool and joint weight, allowing 206 connections to be made up without any rejects, re-runs or crossed threads, and the *TorkDrive* tool provided fast and correct makeup of the casing connections.
- Use of the *OverDrive* system saved time (and therefore operational costs) in several ways:
  - The ability to circulate, reciprocate, and push down and rotate the casing with the *TorkDrive* tool allowed the string to pass safely to TD without stopping.
  - An additional washdown pup joint was not needed once the casing was landed, saving rig time.
  - Eliminating the need to use the rig's stabbing arm saved time by significantly increasing running speed.
  - Rig-up and rig-down times were reduced because the *OverDrive* system does not require removal of drilling links and elevators.
  - With only minimal training, the driller felt comfortable and confident after running just a few joints.



Weatherford's *OverDrive* casing running and drilling system, with the *TorkDrive* tool, greatly enhances safety by combining the functions of power tongs, elevator, fill-up circulation tool, weight compensator, and bails. This technology provides faster tubular makeup and breakout without thread damage. It minimizes risk by reducing the crew requirement and eliminating the need for a stabber.

#### Client

Sonatrach Algeria

#### Location

Algeria

#### Well Type

Vertical development well

#### Casing

13 3/8-in., 68-lb/ft BTC N-80

#### Setting Depth

7,802 ft (2,378 m)

#### Products/Services

- Tubular running services
- *OverDrive* system
  - *TorkDrive* 750 Compact tool
  - *TorkSub* electronic load cell
  - *JAMPro* system
  - ISIS® integrated safety-interlock system

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### Value to Client

- Running time was reduced by almost half, with 14 to 18 joints run per hour compared to the rate of 7 to 10 joints per hour typical with conventional tubular running equipment.
- Use of the OverDrive™ system reduced the personnel requirement on the rig floor, enhancing safety and reducing cost.
- The introduction of semi-mechanized rigs using the *OverDrive* system has helped Sonatrach to achieve significant improvements in overall casing running times by reliably returning the system to well center for repeatable efficiency and accuracy. The success of this operation gave the operator a safer, more efficient, more cost effective means for running tubulars in Algerian fields.



The *OverDrive* system allows the driller to rotate and push (or pull) the casing string while circulating, making it ideal for high-angle, extended-reach wells. It overcomes drag on long strings of lateral pipe, mitigates wellbore sloughing, and efficiently handles other instability issues.

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