



Weatherford®

REAL RESULTS

OverDrive™ System Successfully and Safely Runs Casing to Total Depth on Caspian Sea Platform

Objectives

- Conduct a safe and efficient introductory trial of Weatherford's *OverDrive* system in the Caspian Sea, offshore Azerbaijan.
- Operate incident-free with no accidents or injury to personnel and no environmental issues.
- Run the 13 3/8-in. Hydril 521™ flush-joint casing string to total depth (TD) without using conventional casing-running equipment.
- Reduce manual handling and the number of personnel on the rig floor.
- Verify the integrity of tubular connection makeups.
- Prove that the *OverDrive* system can be the primary choice for running tubulars in the Caspian Sea.

Results

- A TorkDrive™ 500 M casing running and drilling tool was used with the TorkSub™ electronic load cell and the JAMPro™ joint-analyzed-makeup system to successfully run the casing string to bottom.
- There were no incidents, and the operation was error-free.
- The *OverDrive* system successfully ran the entire string, including the shoe track and hanger, eliminating the use of conventional casing-running equipment.
- The system's integral weight compensator neutralized tool and joint weight, allowing 259 connections to be made up without any rejects, re-runs, or crossed threads.



Skilled, trained personnel conducted an incident and error-free operation, making up 259 connections without any rejects, re-runs, or crossed threads.

Location

Caspian Sea, offshore Azerbaijan

Well Type

Developmental

Top Drive

Maritime Hydraulics DDM-650

Hole Size and Angle

17-in., 65°

Casing Details

13-3/8 in. Hydril 521, 72 ppf, L-80

Depth

10,167 ft (3,099 m)

Products/Services

- Tubular running services
- *OverDrive* system
 - TorkDrive 500 modular tool
 - TorkSub electronic load cell
 - JamPRO system
 - Integrated safety-interlock system

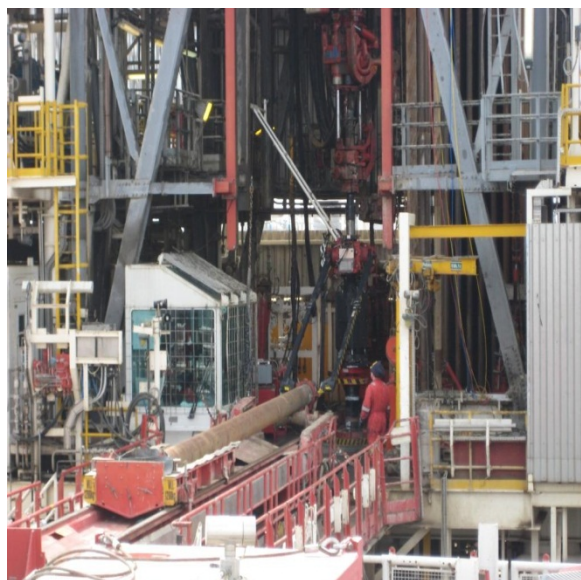


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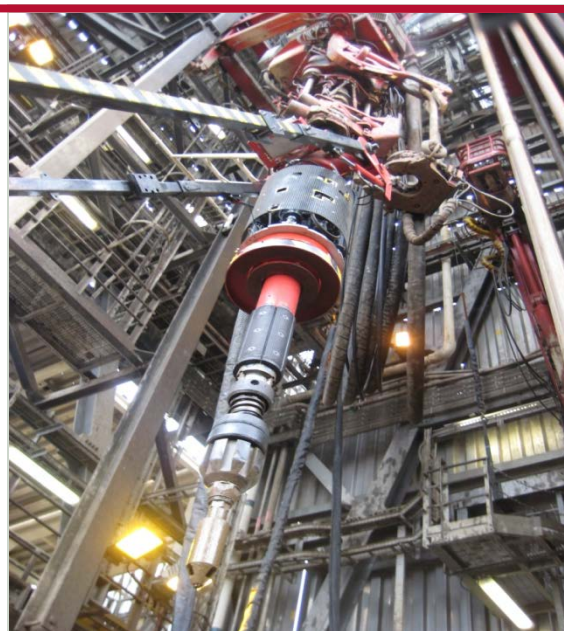
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Value to Client

- The *TorkSub* electronic load cell and *JAMPro* equipment provided fast and correct makeup of the Hydril casing connections.
- Fewer personnel was required on the rig floor, enhancing safety and reducing costs.
- The ability to circulate, reciprocate, as well as push down and rotate the casing with the *TorkDrive* tool allowed the string to pass safely to TD without stopping.
- Stick up, once the casing was landed, eliminated the need for an additional washdown pup joint, 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 time was reduced because the *OverDrive* system does not require the removal of drilling links and elevators.
- Minimum training was required. Drillers felt comfortable and confident after running just a few joints.



1. The casing joint is hoisted using the *OverDrive* system's link-tilt bails.



2. Using the *OverDrive* system, the casing joint is raised in the derrick.



3. The joint is made up and the casing string, which is internally clamped, is then lowered into the well.