

# TorkDrive™ EM System

## Removes Personnel from Red Zone, Eliminates NPT in Casing-Running Operations



*Operated remotely from the driller's cabin via a wireless remote control, the TorkDrive EM casing-running and drilling tool picks up a joint of casing.*

### Objectives

- Enhance safety by reducing the number of personnel in the red zone and manual handling during casing-running operations for an offshore well.
- Automate casing running by remotely operating all equipment from the driller's cabin.

### Our Approach

- Weatherford deployed the TorkDrive electronic modular (EM) casing-running and drilling tool because it is Wi-Fi enabled and can be remotely controlled. The automated casing-running package eliminated the need for personnel on the rig floor and enabled the tool operator to work in the driller's cabin, alongside the driller, for improved communication.
- Using remotely operated single joints in place of standard single joints eliminated the need for someone to manually close and signal throughout the operation.
- The JAMPro™ torque/turn monitoring system was used to review and accept connection parameters via Wi-Fi from the driller's cabin.
- The integral TorkSub™ electronic load cell of the TorkDrive system and the TorkPro™ 3 torque/turn analyzing software combined to quickly and accurately make up all 105 connections with no re-runs or rejects on the 4,058-ft (1,237-m) casing string.

#### LOCATION

Azerbaijan

#### WELL TYPE

Offshore

#### CASING TYPE AND SIZE

HYDRIL 521, 18 in.

#### LINER SIZE

18 in.

#### DEPTH

4,058 ft (1,237 m)

#### PRODUCTS/SERVICES

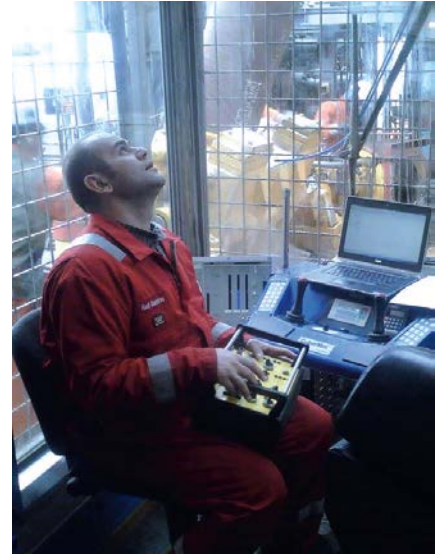
- TorkDrive EM casing-running and drilling tool
- JAMPro torque/turn monitoring system
- TorkPro 3 torque/turn analyzing software
- Integrated safety interlock system



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### Value to Client

- The TorkDrive EM casing-running and drilling tool enhanced safety by automating the casing-running operation, eliminating personnel from the red zone, and reducing manual handling of casing.
- Remotely verifying connection integrity by using wireless controllers eliminated makeup problems and avoided nonproductive time.



*The remotely operated TorkDrive EM casing-running and drilling tool removes personnel from hazardous areas on the rig floor and enables the tool operator to work alongside the driller in the driller's cabin.*

