



Weatherford®

REAL RESULTS

TorkDrive™ Compact ICT Fixes Leakage Problem in Casing String, Saves Costs of Pulling, Re-Running Additional Casing

Objectives

- Plug a leak inside 13 3/8-in. casing in the wellbore. After the 9 5/8-in. casing was cemented, a leak was detected at a depth of 826 ft (252 m). The solution proposed involved cutting the casing above the leak, running the fishing spear at the bottom, break up, and pulling the last-cut casing. The coupling, however, was broken along with the casing cut. Therefore, it is necessary to engage a new coupling to the pin on bottom deploying the *TorkDrive* compact ICT.
- Repair the casing coupling that was damaged when the casing was pulled out of the hole.

Results

- Weatherford personnel proposed to run drillpipe from the surface until it was inside the detached casings in order to stabilize future casing-running operations. With the coupling box at the bottom of the casing, running in-hole was initiated with the *TorkDrive* compact internal clamping tool (ICT) until proper depth was confirmed.
- When the total depth (TD) of 826 ft (252 m) was achieved, the free casing string (around the drillpipe) was made-up to the cemented-at-bottom string. The string was slowly rotated (4 to 5 rpm), torque was gradually built up gradually to 13,500 ft-lb (18 303 N-m), and the weight was slacked off simultaneously until complete fish engagement was confirmed.
- The string was tested later by picking up to 200,000 lb (90 718 kg) with 2,000 psi (13.7 MPa) built-up pressure, with no leak observed.

Value to Client

- Using Weatherford's *TorkDrive* ICT enabled the operator to save the time and associated costs of pulling and re-running the full 9 5/8-in. casing string.
- By using the automated system for tubular makeup and eliminating the need for a stabber in the derrick, the *OverDrive*™ system enabled the operator to reduce the exposure risk of the crew, thereby enhancing operational safety.



Weatherford's *TorkDrive* ICT, a part of the remotely operated *OverDrive* system, provides a safer, more efficient alternative to conventional casing installation by combining several conventional casing-running tools into one: power tong, elevator, fill-up/circulation tool, and weight compensator.

Location
Mumbai, India

Well Type
Offshore, oil

Depth
826 ft (252 m)

Products/Services

- *TorkDrive* compact ICT
- *OverDrive* casing-running system

Weatherford
Khaled Kassem
TRS & RESG Operations Manager
khaled.kassem@me.weatherford.com

Weatherford
Vinu Kumar V R
OverDrive Supervisor
vinu.kumar@me.weatherford.com

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