



Weatherford®

REAL RESULTS

Total Depth® Services with OverDrive™ System Help Client Reach Target Depth, Save Rig Time in Caspian Sea

Objectives

- Efficiently run and ream a 9 5/8-in. casing string to total depth (TD) in an appraisal well.
- Overcome sticky wellbore issues to reduce nonproductive time (NPT). While running a previous 13 3/8-in. casing string through a 18 5/8-in. shoe, sticking issues forced the client to pull out the casing string, perform an unplanned wiper trip, and rerun the casing string—losing time in the process.

Results

- Weatherford's *Total Depth* services engineering team collaborated during the project planning stages and used TADPro® torque-and-drag software to detect possible tight holes.
- The *OverDrive* top-drive casing-running system, featuring the *TorkDrive*™ Compact ICT-TS tool, was deployed with rig-up times significantly improved over previous jobs that used conventional equipment.
- A *DiamondBack*™ casing reamer shoe enabled the operator to ream the open hole and clear the path for casing, while the *SpiraGlider*™ centralizers reduced frictional forces and centralized the casing in the wellbore.
- The *TorkDrive* tool enabled the operator to ream through the tight spots at 35 rpm, circulate with 1,000 psi (6.89 MPa) at 8,425 ft (2,568 m), and successfully pass the obstruction.
- For the first time in MENA, the operator used the *OverDrive* system to run the mudline hanger, successfully wash down the mudline-hanger joint with eight tons of push-down force, and land it in the wellhead, eliminating the need to pull the string again.
- The operator set the casing at a TD of 16,102 ft (4,908 m), completing the job with average running speeds of 10 joints per hour and average cased-hole running speeds of 12 joints per hour.
- The entire operation was completed without incident, enhancing client satisfaction.



Weatherford's *OverDrive* system overcame the casing-running issues that occurred in the previous section, saving the client two days of rig time by circulating through tight spots and setting the casing to TD in the Caspian Sea.

Client

PETRONAS Carigali

Location

Caspian Sea, Turkmenistan

Well Type

Offshore, appraisal

Casing Type and Size

9-5/8 in., 53.5-lb/ft VAM® TOP P-110

Setting Depth

16,102 ft (4,908 m)

Products/Services

- Tubular running services
- *OverDrive* casing-running system
- *TorkDrive* Compact ICT-TS tool
- *DiamondBack* reamer shoe
- *SpiraGlider* centralizer system

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PETRONAS Carigali
Tom Runggai
Head of Drilling
tom_runggai@petronas.com.my

Weatherford
Sakher Atiyyat
TRS Manager
sakher.atiyyat@me.weatherford.com



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Value to Client

- Weatherford's Total Depth® services provided the solution, enabling the operator to safely and efficiently ream through the tight-hole conditions and set the casing at TD.
- The Weatherford-engineered combination saved the client significant time and eliminated potential NPT when running the 9 5/8-in. casing in comparison to running the previous section.



Designed to overcome wellbore obstructions, Weatherford's DiamondBack™ reamer shoe reamed the open hole and created a passageway to guide the casing string to TD.



Weatherford's SpiraGlider™ centralizer traveled over restrictions in the wellbore and reduced casing sliding friction.

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