



Weatherford®

REAL RESULTS

OverDrive™ System Ensures Running and Integrity of S13CR String in High-Inclination Well

Objectives

- Run and potentially rotate a 15,420-ft (4,700-m) string of super 13% Chromium (S13CR) premium casing through an 11,319-ft (3,450-m), 72° tangent section to total depth (TD).

Our Approach

- Before starting the job, Weatherford collaborated with the client and connection manufacturer to review torque and operational limits and account for the possibility of rotating the casing string to reach TD.
- Weatherford also worked with the client and connection manufacturer to prequalify the OverDrive system for indentations on the premium casing. The prequalification was in accordance with API requirements for torque up to 60,000 ft-lb (81,349 N•m) and loads up to 400 tons (362,874 kg).
- The Weatherford team deployed the OverDrive system with the TorkDrive Compact internal clamping tool (ICT) to run the S13CR premium casing string to TD.
- The team used the TorkSub™ torque-measuring system and TorkPro 3™ torque/turns analyzing software to monitor and record torque independently from the top drive and to prevent overtorquing.
- The team used the flush-mounted spider with the integrated safety interlock system for positive gripping of the string to prevent slippage or dropping of the string.
- The OverDrive system reached TD in the long, high-inclination section.

Value to Client

- The prejob planning prequalified the OverDrive system, defined acceptable penetration of the S13CR casing, and ensured connection integrity for success in running the premium string on the first attempt.
- The OverDrive system ran the casing string through the long, high-inclination section to TD without issue. The resulting indentations on the S13CR material were well within API requirements to provide an effective mechanical barrier.
- The TorkSub torque-measuring system and software assured reliable makeup of 374 connections for well integrity.



The OverDrive system can rotate and push down casing, which significantly improves the chances of reaching TD in challenging formations.

Location

Japan

Well Type

Onshore, CO₂ injector, high inclination

Casing Type

- 9 5/8-in., 43.5-lb/ft TenarisHydril Wedge 563™ (TN110CR13S)
- 9 5/8-in., 43.5-lb/ft TenarisHydril Blue® Series (TN110CR13S)

Casing Measured Depth

15,420 ft (4,700 m)

Horizontal Section

- Measured depth: 11,319 ft (3,450 m)
- True vertical depth: 4,101 ft (1,250 m)

Hole Inclination

72°

Products/Services

- OverDrive system with TorkDrive Compact ICT
- Flowback mud-saver valve
- TorkSub standalone wireless torque-measuring system
- JAMPro™ torque-turn monitoring system with TorkPro 3 torque/turns analyzing software
- Electric hydraulic power unit 2EW
- Integrated safety interlock system

Wedge 563 and Blue are trademarks of Tenaris.

Weatherford
Tubular Running Services
TRS@weatherford.com