



# Weatherford®

## REAL RESULTS

### OverDrive™ System Runs Floated Casing String to TD on First Attempt, Incurs Zero NPT in Land-to-Sea Well



The selection of the OverDrive system and onshore support before and during the job resulted in achieving TD in an extended-reach well with no performance issues.

## Objectives

- Run a 9 5/8-in. floated casing string with air to total depth (TD) in an extended-reach-drilling (ERD) well, and rotate and push the casing string as required. The well path included a shallow kickoff onshore, a horizontal section that ran laterally offshore, and a drop off into the reservoir.

## Our Approach

- The Weatherford OverDrive system was chosen early in the well planning stages because of its technical capabilities and successful track record for running casing in difficult wells.
- The OverDrive system enabled the client to rotate and push the entire 9 5/8-in. casing string to TD in the section. The system averaged running 10 to 12 joints per hour. In sections that required rotation and push down, the system averaged running six to seven joints per hour.
- The TorkSub™ torque-measuring system monitored and recorded independently to prevent overtorqueing while rotating, which resulted in 425 reliable connections with no rejections. Torque as monitored with the TorkSub reached an average of 12,000 ft-lb (16,270 N·m) and a maximum of 18,000 ft-lb (24,405 N·m) while the string was rotated.
- The RMS 2000 rotary-mounted slips with the integrated safety interlock system provided positive gripping and prevented dropped strings while making up connections.
- Weatherford equipped the TorkDrive Modular tool with a flowback mud-saver valve capable of handling any returns throughout the job.
- The OverDrive system reached TD without any safety or performance issues in 72 hours.

#### Client

Origin Energy

#### Location

Victoria, Australia

#### Well Type

Onshore-to-offshore, gas, extended reach

#### Hole Size

12-1/4 in.

#### Casing Size and Type

9 5/8-in., 53.5-lb/ft, L80 TenarisHydril Wedge 563™ equipped with an eccentric nose float shoe

#### Section Total Depth

18,602 ft (5,670 m)

#### Products/Services

- OverDrive system with TorkDrive Modular ICT
- ROSJE remotely operated single-joint elevator
- Flowback mud-saver valve
- TorkSub standalone wireless torque-measuring system
- JAMPro™ joint-analyzed makeup system with TorkPro™ torque/turns analyzing software
- Electric hydraulic power unit 2EW
- Integrated safety interlock system
- RMS 2000 rotary-mounted slips

Wedge 563 is a trademark of Tenaris.

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### Value to Client

- The OverDrive system with the TorkDrive Modular ICT provided the capability of running a floated casing string with air instead of mud, which reduced the risk of valve failure and the amount of costly mud. The system enabled the client to simplify the shoe track and confidently reach TD without incurring nonproductive time (NPT).
- The TorkSub torque-measuring system with TorkPro software assured the integrity of all 425 connections during makeup and rotation with no rejects or overtorqueing.
- The RMS 2000 enhanced safety by positively gripping the floated string during connection makeup and eliminating the possibility of a dropped casing string.

“Weatherford proposed the TorkDrive Modular tool as a solution to rotating and pushing the horizontal 9 5/8-in. casing string to TD. This proved to be an effective method of floating the casing in the ERD well.”

—Mark Nasarczyk, Origin Energy



The TorkDrive Modular casing-running tool is designed for running and pulling casing, reaming with casing, and drilling with casing in a wide range of applications.