



# Weatherford®

## REAL RESULTS

### OverDrive™ System, Used with TorkDrive™ 750 Heavy-Duty Tool, Safely Runs Offshore Casing String

#### Objectives

- Evaluate the *OverDrive* top-drive casing running and drilling system on a jackup rig in the North Sea. The *OverDrive* system would be used to make up and run 9 5/8-in. casing inside 5,018 ft (1,530 m) of 13 3/8-in. casing and a 12 1/4-in. open hole. Total depth was 12,500 ft (3,815 m).
- Determine whether the *OverDrive* system could meet the client's "hands-off" policy for running casing strings.
- Verify the system's ability to rig down the *TorkDrive* 750 HD (heavy-duty) tool with pipe in the rotary.

#### Results

- The 9 5/8-in. casing string was successfully run to a total depth of 12,500 ft (3,815 m).
- All associated equipment, including the JAMPro™ joint-analyzed makeup system, were installed, rigged up, verified, and calibrated within 6 hr.
- Each joint was lifted from the V-door into the derrick by the link-tilt bails of the *TorkDrive* tool and the Stabberless® single-joint elevator.
- As the casing string was run, each joint was filled with mud through the *TorkDrive* tool. The last nine joints on the casing string were circulated down through the tool at 211.3 gal/min at 550 psi (800 L/min at 3,447.4 kPa).
- All connection makeups were monitored in real time and recorded using the JAMPro system. An accurate torque/turn measurement was achieved, using the TorkSub™ integral electronic load cell and an onboard high-resolution turn counter. (The *TorkSub* load cell reading is independent of the top-drive torque reading.)
- Rigging down the complete *OverDrive* system with pipe in the rotary took 3 hr after the casing string was cemented.

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Latching link-tilt bails and the *Stabberless* single-joint elevator over the next joint at the V-door.

#### Client

Gaz de France Production Nederland B.V.

#### Location

Offshore, The Netherlands

#### Previous Casing

13-3/8 in., 5,018 ft (1,530 m)

#### Casing Size and Type

9 5/8-in., 53.5-lb/ft NEW VAM® P-110

#### Hole Size

12 1/4-in. vertical to 2,624 ft (800 m), then build inclination to 33° at TD

#### Total Depth

12,500 ft (3,815 m)

#### Type of Rig

Jackup

#### Products/Services

- Tubular running services
- *OverDrive* casing running and drilling system
- *TorkDrive* makeup/breakout tool
- *TorkSub* load cell
- JAMPro joint-analyzed makeup system
- Integrated safety interlock system
- *Stabberless* single-joint elevator

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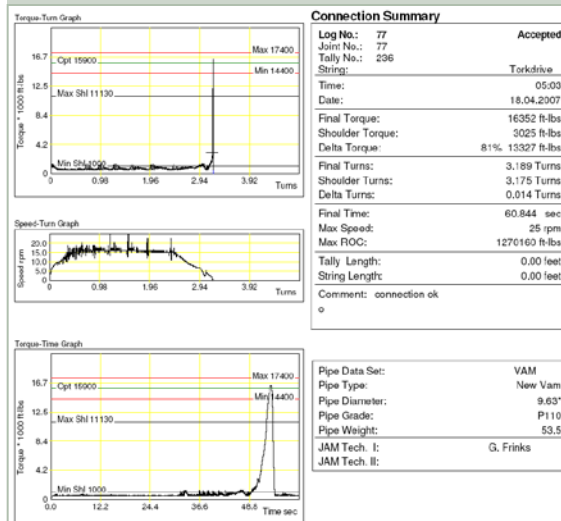
## REAL RESULTS

### Value to Client

- By supporting the client's hands-off policy for casing-running applications, the OverDrive™ system enhanced safety. Specifically, it eliminated the need for a stabber in the derrick, eliminated the need for manual handling to position power tongs around the pipe, and allowed remote positioning of the single-joint elevator onto the next joint, using the link-tilt bails.
- The driller and rig crew adapted easily to the OverDrive system's operation, minimizing startup time.
- The casing running operation proceeded quickly and efficiently (averaging 14 joints per hour), using the OverDrive incorporated weight compensation. In all, 295 connections were successfully made without any rejects.
- Gaz de France and the drilling contractor gained valuable firsthand experience with the OverDrive system and proved that rigging down the TorkDrive™ tool with pipe in the rotary offers an effective time-and-cost-saving alternative for running casing strings under challenging conditions.



Control panel, operating TorkDrive tool and link-tilt bails over the next joint at the V-door.



JAMPro torque/turn makeup graph, using the TorkSub integral electronic load cell.