



# Weatherford®

## REAL RESULTS

### OverDrive™ System with TorkDrive™ Tool Installs 22-in. Casing in Deepwater Well, Enhances Safety, Sets Brazilian Record

#### Objectives

- Run a 22-in. casing string in a 26-in. section of a deepwater well. The water depth was 9,150 ft (2,789 m), one of the deepest in Brazil.
- Enhance safety and efficiency by introducing mechanized tubular running equipment and eliminating manual handling and the need for a stabber in the derrick during casing-running operations.

#### Results

- Weatherford deployed the remotely operated *OverDrive* system featuring the *TorkDrive* 500 M ICT (internal clamping tool) equipped with the integrated safety interlock system. An RMS 3000 rotary-mounted spider was provided to counteract torque during connection makeup.
- The *TorkDrive* tool eliminated the need for conventional casing tongs and applied 40,000 ft-lb (54,232 N M) of torque during makeup of each of the 96 connections. The total run length was 3,861 ft (1,177 m) with a maximum running rate of 10 joints per hour.
- The 22-in. casing string was successfully installed to a total depth of 13,133 ft (4,003 m).
- The entire operation was performed efficiently and without incident.

#### Value to Client

- Using Weatherford's remotely operated *OverDrive* system enabled the operator to maintain conventional running speeds and reduce the number of personnel on the rig floor, eliminating manual handling of power tongs and elevators and the need for a stabber in the derrick, significantly reducing incident exposure.
- Use of the system mitigated the risks associated with pinch points, unnecessary efforts, and uncomfortable positions usually associated with running large OD casing.
- The integrated safety interlock system eliminated the risks of dropping the string.
- While the running time of 10 joints per hour is equivalent to conventional run times, safety was dramatically improved with less personnel and manual handling of equipment.



Weatherford's *OverDrive* casing running and drilling system with the *TorkDrive* 500M ICT tool greatly enhanced safety by combining the functions of power tongs, elevator, fill-up circulation tool, weight compensator, and bails. This technology minimized personnel risk by reducing the number of personnel on the rig floor without reducing casing running efficiency.

#### Client

Repsol Sinopec Brasil S.A.

#### Date

25 August 2011

#### Location

Campos Basin

#### Well Name

Paão de Açúcar

#### Rig

Stena DrillMax

#### Hole Size and Angle

26 in., vertical

#### Casing Type and Size

22-in. Dril-Quip® S-90/MT, 224.28 PPF

#### Well Type

Offshore, exploratory

#### Water Depth

9,150 ft (2,789 m)

#### Run Length

3,861 ft (1,177 m)

#### Products/Services

- *OverDrive* casing running and drilling system
- *TorkDrive* 500M ICT
- RMS 3000 rotary-mounted spider
- Integrated safety interlock system

Dril-Quip is a registered trademark of Dril-Quip, Inc.

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