

# **REAL RESULTS**

## DwC<sup>™</sup> Spear, StabMaster<sup>®</sup> System Run Production Casing to TD in Offshore Well, Improves Rig Efficiency, Saves Operator \$84,000

### **Objectives**

- Run a 9 5/8-in. production casing safely and efficiently to the bottom of an offshore Indonesian well.
- Push and ream casing string through a deviated hole with restrictions and an inclination of up to 32°.

### Results

- Weatherford's personnel deployed a drilling-with-casing (*DwC*) internal casing drive tool (ICDT) spear and a *StabMaster* pipe alignment tool combination.
- The ICDT spear, designed for fast rig-up and safe and efficient hoisting of longer casing lengths, eliminated the need for conventional casing running and handling equipment such as a spider or fill-up tool, improving personnel safety.
- The remotely controlled *StabMaster* system improved personnel safety by eliminating the need for a stabber in the derrick during the casing running operation.
- The tool combination enabled the operator to set the 9 5/8-in. production casing at 9,968 ft (3,038 m) through the deviated hole section and past all encountered restrictions.
- Using conventional technology, the operator estimated that the job could be completed in 24 hours at a joints-per-hour rate of 10. Using the *StabMaster* and the ICDT spear, the operator completed the job in 20 hours at a joints-per-hour rate of 16.

## Value to Client

- Using Weatherford's *DwC* ICDT spear and the *StabMaster* combination enabled the operator to run and set production casing at the bottom of a deviated offshore oil well in a single run, significantly improving efficiency over conventional technology.
- DwC technology used less rig time than conventional technology and required less equipment and fewer personnel to operate the ICDT spear and StabMaster system, improving overall safety.
- The increased running speed enabled the operator to complete the job four hours faster than expected, saving the operator US\$84,370.

Weatherford Drilling-with-Casing (*DwC*) dwc@weatherford.com



Weatherford's *DwC* ICDT spear and the *StabMaster* system successfully ran 9 5/8-in. casing to 9,968 ft (3,038 m) through a 32° deviated well faster than expected, saving the operator four hours of rig time and US\$84,370.

Location Natuna Sea, Indonesia

### Formation

- Primary: Arang/gabus sandstones
- Secondary: Lower terumbu

Well Type Offshore, exploratory oil

Well Inclination 32°

Hole Size 12-1/4 in.

**Setting Depth** 9,968 ft (3,038 m) MD

Run Length 9,755 ft (2,973 m)

**Casing** 9 5/8-in., 47-lb/ft P-110 with JFE bear connection

### Products/Services

- DwC technology
- StabMaster system
- 9 5/8-in. ICDT spear

Weatherford products and services are subject to the Company's standard terms and conditions, available on request or at weatherford.com. For more information contact an authorized Weatherford representative. Unless noted otherwise, trademarks and service marks herein are the property of Weatherford and may be registered in the United States and/or other countries. Weatherford products named herein may be protected by one or more U.S. and/or foreign patents. For more information, contact patents@weatherford.com. Specifications are subject to change without noice. Weatherford sates its products and services in accordance with the terms and conditions set forth in the applicable contract between Weatherford and the client.