



Weatherford®

REAL RESULTS

DwC™ Spear, StabMaster® 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'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
Drilling-with-Casing (DwC)
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