



Weatherford®

REAL RESULTS

DwC™ Spear, Defyer™ DPA Bit Enable Operator to Drill and Set Conductor Casing in One Trip, Offshore Asia

Objectives

- Drill and set a 20-in. conductor casing string in a single trip to eliminate a separate casing trip through the strong ocean currents of an offshore well. An operator in an adjacent block had difficulty tripping in the conductor casing string and lost hours trying to find the predrilled hole.

Results

- Weatherford's Total Depth® services team presented nonretrievable, drilling-with-casing (DwC) technology as the solution, eliminating the trip to run the conductor casing string after the trip in and out of the drillstring.
- Personnel deployed a DwC system, including a 20- x 24-in. Defyer DPA 8419 casing bit and an internal casing drive tool (ICDT) spear.
- The DwC system enabled the operator to drill the 20-in. conductor casing string through an interval length of 1,802 ft (549 m) measured depth from rotary table (MDRT) at rates of 30 to 90 rpm, and set the casing.
- The interval was the longest and deepest section drilled by Weatherford on a 20-in., nonretrievable DwC job to date.

Value to Client

- Using Weatherford's DwC ICDT spear and Defyer casing bit combination enabled the operator to drill and set the conductor casing in a single trip, saving significant time and costs in the offshore application.



The 20- x 24-in. Defyer DPA 8419 casing bit was used to drill the 20-in. casing string through a 1,802-ft (549-m) interval—the longest, deepest section that Weatherford has drilled to date with a 20-in. DwC casing-drilling system.

Client

PTTEP Myanmar

Location

Southern Yangon

Well Type

Offshore, exploratory

Well Name

Aung Sin Kha-4

Formation

Sandstone and claystone interbedded with siltstone stringers

Hole Size and Angle

24 in. (610 mm), vertical

Casing Type and Size

20-in., 129-lb/ft, X56, Leopard SD connector

Depth In

166 ft (51 m) MDRT

Setting Depth

1,968 ft (600 m)

Run Length

1,802 ft (549 m) MDRT

On-Bottom Torque

2,000 to 24,000 ft-lbf (2,712 to 35,540 N•m)

Weight on Bit

2 to 12 klbf (20 to 118 N)

Flow Rate

300 to 1,100 gal/min (1,100 to 4,000 L/min)

Products/Services

- Total Depth services
- DwC technology
- Defyer DPA 8419 casing bit
- 20-in. ICDT spear

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