



Weatherford®

REAL RESULTS

Weatherford's Drilling with Casing (DwC™) 'Nudge' System Achieves Success in Gulf of Thailand

Objectives

- Deploy trial use of DwC 'nudge' system as an alternative to conventional directional drilling in surface casing in three wells.
- Build angle in surface hole section to avoid collision.
- Explore limits of the technology in very soft formation.

Results

- Reached average on bottom ROP 150 ft/hr and 55 ft/hr while nudging.
- The first well achieved the highest inclination angle. With a recorded angle of 36.5° at TD, this well is a world record, to date.
- The DwC 'nudge' system deployed in the second well surpassed the client's expectation, reaching an inclination of 18° as compared to the planned 16°, while staying on azimuth target.

Value to Client

- With no drilling hazards to overcome, the main driver was drilling efficiency. The client proved the DwC 'nudge' system can be deployed successfully and achieve desired directional result.
- As a result of multiple surveying runs, the system proved cost neutral when compared to conventional directional drilling.



Location

Thailand

Well Type

Offshore

Setting Depth

- 1,043 ft (318 m)
- 990 ft (302 m)
- 995 ft (303 m)

Casing Type and Size

9.625 in., 36 lb/ft K55 BTC

Hole Size

12 in.

Hole Angle

- 36.5° at 1,043 ft (318 m)
- 18° at 990 ft (302 m)
- 4° at 995 ft (303 m)

Total Length Drilled

- 743 ft (226 m)
- 676 ft (206 m)
- 681 ft (208 m)

Products/Services

DwC system