



Weatherford®

REAL RESULTS

24 Hours Saved when Drilling Two 9 5/8-in. Casing Strings with Weatherford's Drilling-with-Casing (DwC™) System

Objectives

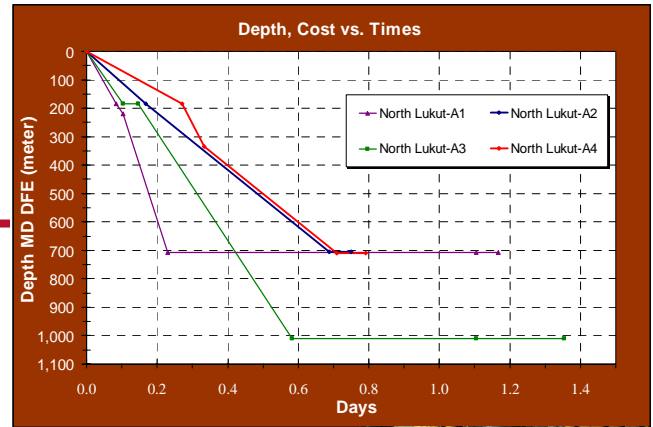
- Safely and cost effectively drill and set 9 5/8-in. surface casing to the required setting depth in two wells.
- Prove the DwC system in surface vertical hole and demonstrate the system's financial benefit.

Results

- The operation was successfully conducted for both wells, proving the DwC System is technically feasible and economically beneficial in surface vertical holes.
- The operation achieved the desired run length of 1,722 ft (525 m).
- The operation reached the setting depth of 2,329 ft (710 m).

Value to Client

- The DwC operation yielded both time and cost savings. The total rig time saved, 24 hr, represents an estimated US\$100,000 savings versus a conventional approach.
- The DwC system provided all-around bottom-line improvements: time savings with no BHA to trip out; the hole in good condition; and, elimination of the wiper trip.
- Proof of the DwC system's performance produced a mindset change. Most DwC setting depths have been shallow; this operation demonstrated the maturity and capability of Weatherford's DwC technology.



Weatherford's DwC system was deployed to drill 9 5/8-in. casing strings in the A-2 and A-4 wells. BHA details: 9 5/8-in. ID x 12-in. OD Defyer™ DT; Weatherford stab-in float collar model 402-1; Weatherford standard float collar model 402; 9 5/8-in., 40-lb/ft, BTC, L80 casing.



Client

Petronas Carigali Sdn. Bhd.

Location

North Lukut, Malay Basin, Malaysia

Formation

Clay and sandstone

Depth in

607 ft (185 m)

Run Length

1,722 ft (525 m)

Hole Size

12 in.

Number of Wells

2

Products/Services

- DwC drilling-with-casing system
- Defyer DT