

# Nonretrievable DwC™ System Drills Unstable Formation, Sets 20-in. Casing in One Run

## Objectives

- Run, drill, set, and cement 20-in. conductor casing to a planned total depth (TD) of 1,487 (453 m). Because of the high currents during monsoon season, single-trip efficiency is preferred to avoid non-productive time (NPT) related to re-aligning the drilling vessel with the target zone between drilling and casing operations.
- Mitigate risks of hole wash out and caving.

## Our Approach

- Weatherford deployed a nonretrievable DwC system using the internal casing drive tool (ICDT) and a 20 x 24-in. Defyer® DPA8419X drillable casing bit. This single-trip drilling and casing technology removes the need to trip pipe and the bottomhole assembly (BHA), which makes the system ideal for unstable formations.
- The team ran in the assembly at 213 ft (65 m) and drilled ahead with a higher-than-average on-bottom rate of penetration (ROP) of 151 ft/hr (46 m/hr). The operation reached the planned TD without any safety issues or NPT.
- The DwC system enabled the stab-in cementing operation to begin immediately upon reaching total depth.
- A 16-in. roller cone bit drilled out the cement shoe track, float collar, and Defyer casing bit in less than 4 hours, which enabled the operator to continue drilling the next hole section with the same 16-in. roller cone bit .

## Value to Client

- Weatherford DwC technology enabled the operator to drill and cement the 20-in. casing string at the desired depth in a single trip while eliminating potential wash out and hole caving problems.
- The DwC system and ICDT combination eliminated manual pipe handling by the rig crew, which improved safety.
- The fully drillable casing bit enabled the operator to drill the next hole section without an additional drillout trip.
- The 20-in. section was completed one day ahead of schedule compared to conventional drilling and casing techniques.



Using a 20 × 24-in. Defyer® DPA8419X casing bit, Weatherford drilled a 387.74-m (1,272.11 ft) interval with 20-in. casing string in one run.

### LOCATION

Gulf of Martaban, Myanmar

### WELL TYPE

Offshore, exploratory

### FORMATION

Carbonate

### HOLE SIZE AND INCLINATION

24 in., 0°

### CASING SIZE

20 in. 133 ppf, X56 Leopard SDIF connection

### DEPTH IN

213 ft (65 m)

### DEPTH OUT

1,485 ft (453 m)

### PRODUCTS/SERVICES

- Tubular running services
- DwC services
- ICDT tool
- 20 x 24-in Defyer DPA8419X bit

