

REAL RESULTS

DwC[™] System, Defyer[™] Drill Bit Run Casing Through Difficult Formation in Single Trip, Saving Operator \$1 Million

Objectives

- Run casing to total depth (TD) through a challenging formation in a single trip without becoming stuck.
- Eliminate the need for a wiper trip. Previous wells in this region experienced sticking problems running 20-in. casing to TD. On this exploration well, the measured depth from rotary table (MDRT) was considerably longer than other wells drilled in the region.

Results

- Weatherford deployed a 20-in. *DwC* internal casing drive system to wash and ream the casing string with a 20-in. 24-in.
 (508-mm 610-mm) *Defyer* DT306 drillable casing bit. The rig was equipped with a StabMaster[®] pipe-alignment system and a rotary-mounted spider.
- Rig personnel ran the casing to TD in a single trip. The *DwC* system, when engaged, enabled casing fill-up, rotation, and circulation through restrictions in the previously drilled 26-in. (660-mm) open hole.
- This deployment represented the longest *DwC* internal casing drive installation to date for this operator.

Value to Client

- The *DwC* system required less pipe handling for the wiper trip, eliminating the need for fill-up tools or drive subs.
- The low casing-stump height mitigated the need for a work platform, resulting in a safer environment for rig personnel.
- The cutting structure of the *Defyer* drill bit reamed through restrictions, enabling more efficient drillout times without damaging the drillout bit.
- The combined efficiency of the DwC system and Defyer drill bit saved the operator two days of rig time and US\$1 million in operating costs.



Weatherford's *Defyer* drillable casing bit provides custom solutions for *DwC* operations in any environment. The innovative, robust design of the *Defyer* tool is capable of penetrating soft, medium, and hard formations. The *Defyer* series delivers the technology, features, and adaptability that conventional methods cannot offer.

Location Carnarvon Basin, Australia

Well Type Offshore, exploration

Hole Size 26 in. (660 mm)

MDRT 1,023 ft (312 m)

Setting Depth 5,564 ft (1,696 m)

Run Length 4,540 ft (1,384 m)

Casing 20-in., 133- and 166-lb/ft N80

Products/Services

- *DwC* internal casing drive system
- Defyer DT306 drillable casing bit
- Rotary-mounted spider
- StabMaster pipe alignment system

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