



Weatherford®

REAL RESULTS

DwC™ Service Saves More Than 22 hours of Rig Time, Drills and Runs 20-in. Well Section in One Trip

Objectives

- Reduce well-construction time by simultaneously drilling and running a 449-ft, 20-in. casing string.
- Reach the planned total depth (TD) in one run.

Our Approach

- Weatherford deployed the drilling-with-casing (DwC) system, and simultaneously drilled and ran casing into 449-ft (137-m) section. The operation—the first in Ecuador—was completed in one run.
- The operation centralized the casing string and reached the targeted depth through intercalated claystone, sandstone, conglomerate, and gumbo zones.
- The casing string and the Defyer™ DPA drillable casing bit was cemented in place. Finally, the Defeyer bit was drilled out in only 29 minutes using a 16-in. PDC drilling bit.

Value to Client

- The DwC system completed the drilling-with-casing run 22.5 hours faster than a conventional run.
- The operation reduced rig time and NPT by eliminating conventional BHA manipulation and additional trips.



The Weatherford DwC system and Defyer DPA casing bit simultaneously drilled and cased a 449-ft (137-m) well section in a single run.

Location

Francisco de Orellana, Ecuador

Well Type

Onshore, Vertical

Hole Size

24 in.

Casing Size and Type

20 in., 94 lb/ft BTC

Setting Depth and Run Length

449 ft (137 m)

On-Bottom Torque

12,000 ft/lb (16,270 n·m)

Off-Bottom Torque

10,500 ft/lb (14,236 n·m)

Drilling Time

11.2 hr

On-Bottom ROP

36.5 hr

Flow Rate

200 to 650 gal/min.

Products/Services

- Tubular running services
- DwC engineering services
- Defyer DPA 4419X 20-in. CSG x 24in. OD
- 402-1 stab-in float collar with Sure-Seal 3™ valve
- DwC ICDT casing drive system

Weatherford
Drilling-with-Casing (DwC)
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