



Weatherford®

REAL RESULTS

DwC™ Services Mitigate Drilling Hazards, Reduce NPT in Challenging Formation

Objectives

- Simultaneously drill and run 13-3/8-in. casing to 1,312 ft (400 m) for an onshore well in Bolivia.
- Mitigate drilling hazards, including water intrusion, borehole instability, and broaching.
- Minimize or eliminate wiper trips.

Results

- Weatherford successfully deployed the drilling-with-casing system and simultaneously drilled and ran casing to 1,312 ft (400 m).
- The operation centralized the casing string and reached the targeted depth through an intercalated zone of gumbo and sand while safely isolating the shallow water flow section.
- Once the operation was complete, the Defyer™ DPA drillable casing bit was cemented and later drilled out in 30 min. The drill-out bit drilled ahead to a TD of 5,905 ft (1,800 m) and was pulled out of the hole with the following dull grade: 1-2-CT-A-X-I-ER-TD.

Value to Client

- The system completed the drilling-with-casing run while improving operational safety, including isolating the water intrusion zone.
- The operation reduced NPT by eliminating wiper trips and completing both the drilling and casing processes in one run.
- The procedure delivered a quality 16.44-in. hole, reduced mud losses through a smear effect, and optimized cement volume.



The Weatherford drilling-with-casing system eliminates the need to trip pipe and bottomhole assemblies, increasing drilling speed and reducing risk exposure by always having casing at near the bottom of the hole.

Location

Santa Cruz, Bolivia

Well Type

Onshore

Hole Size

16 in.

Casing Size and Type

13-3/8 in., 53.5 lb/ft BTC with torque rings

Depth In

Surface, 29 ft (9 m)

Depth Out Run Length

1,312 ft (400 m)

On-Bottom Torque

7800 ft/lb (10,575 n•m)

Off-Bottom Torque

5600 ft/lb (7,593 n•m)

Flow Rate

250-600 gal/min. (946-2,271 L/min.)

ROP

59.4 ft/hr (18.12 m/hr)

Drill-Out Bit Type

PDC Bit SDI519MHBXPXG (Smith Bits)

Drill-Out Bit TFA

7 nozzles x 11/32 in. = 0.650 in.² (419.35 mm²)

Products/Services

- DwC system and services
- Defyer DPA 4416X 13-3/8 in. x 16-in. casing bit
- SpiraGlider™ centralizer

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