



Weatherford®

REAL RESULTS

OverDrive™ System, DwC™ Technology Runs, Sets Casing in One Run, Saves Rig Costs, Improves Safety, Efficiency

Objectives

- Drill, case, and set a 20-in. casing section with minimal drilling time.
- Avoid drilling hazards such as mud losses, lost-in-hole bottomhole assemblies (BHAs), prolonged openhole exposure, and extensive drillouts.
- Control the risk to the personnel involved in an operation with conventional equipment.

Results

- Weatherford used Drilling-with-Casing (DwC) technology to deploy a 20- x 24-in. Defyer™ DPA 4413 drillable-casing bit on the liner.
- The remotely operated OverDrive system, including the TorkDrive™ 500M modular casing-running and drilling tool and the automated pick-up-lay-down machine, was used to make up connections faster and to provide the ability to transmit power and mud flow from the top drive to the casing.
- The OverDrive system eliminated the need for a stabber in the derrick and reduced the number of personnel required.
- A 402-1 float collar with an SS3 valve—designed for prolonged circulating time—and a stinger stab-in for cementing with drillpipe minimized cement waste and ensured excellent cement quality.
- The operation took 27.8 hours including drillout, with 14 joints run into the wellbore with no rejects, an average rate of penetration of 27 ft/hr (8.2 m/hr), and no cross-threading of connections.
- The operation was performed efficiently and without incident.



Weatherford's DwC system removes the need to trip pipe and bottomhole assemblies (BHA), which in turn speeds drilling and reduces risk exposure by always having casing on or near bottom..

Location

Cuenca Ucayali, Selva Central del Perú

Well Type

Onshore, exploration

Hole Size

24-in.

Measured Depth

518.5 ft (158 m) average

Casing

20-in., 94-lb/ft (140-kg/m) K-55
TenarisHydril ER™

Total Number of Joints

14

Rate of Penetration

27 ft/hr (8.2 m/hr)

Products/Services

- Tubular running services
- OverDrive casing-running system
- TorkDrive 500M modular tool
- DwC technology

TSH TenarisHydril ER is a registered trademark of
Tenaris Connections B.V.

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Value to Client

- Using Weatherford's OverDrive™ system and DwC™ technology enabled the operator to optimize drilling time, saving more than a day of rig time and associated costs when compared to conventional technology.
- By using the automated system for tubular makeup and eliminating the need for a stabber in the derrick, the *OverDrive* system enabled the operator to reduce the exposure risk of the crew, thereby enhancing operational safety.
- The operator performed the entire run without any recordable incidents or accidents, saving rig time and associated costs.



Using a combination of Weatherford's DwC technology and the remotely operated *OverDrive* casing-running and drilling system, the operator successfully drilled and set a 20-in. casing section in 27.8 hours, improving operational efficiency and enhancing rig personnel safety.

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