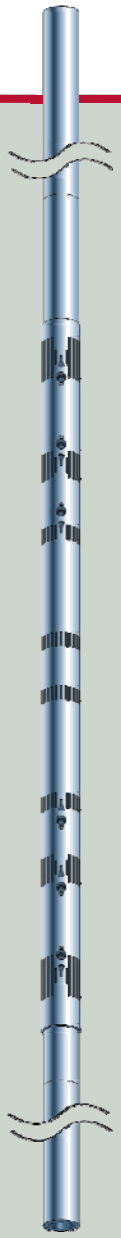
Weatherford®

REAL RESULTS

Hostile-Environment Geosteering System Enables Completion of Deepwater Well Despite High-Pressure Issues

Weatherford's industry-first *Revolution* rotary-steerable drilling system provides more precise steering and smoother, cleaner wellbores. The *Revolution* system achieves optimal performance when combined with HEL™ hostile-environment logging systems.



Objectives

- Drill and evaluate a Gulf of Mexico well with maximum pressure of 24,993 psi (172 MPa).

Results

- Weatherford performed six PrecisionLWD™ logging bit runs. This technology suite, which was packaged with a Revolution® rotary-steerable assembly to maintain directional control, reached a depth of 29,998 ft (9,143 m) and drilled the well to 30,072 ft (9,166 m) MD.
- MFR™ multi-frequency resistivity sensor data predicted pore pressure, which helped the operator determine what type of wireline data to use at specific intervals.
- BAP™ bore and annulus pressure sensor data measured equivalent circulating density to help optimize the mud program and minimize mud losses.
- HAGR™ high-temperature azimuthal gamma ray sensor data were used to determine lithology changes and select casing.
- IDS™ integrated directional sonde provided directional and toolface measurements.

Value to Client

- The reliable acquisition and surface transmission of real-time formation evaluation and drilling data were fundamental to the safe and efficient completion of the high-pressure prospect.

Location
Gulf of Mexico, USA

Maximum Pressure
24,993 psi (172 MPa)

Maximum Temperature
239°F (115°C)

Operating Hours
488

Circulating Hours
248

Products/Services
- *Revolution* rotary-steerable system
- *PrecisionLWD* system with *MFR* and *BAP* sensors, *HAGR* tool and *IDS* sonde

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