Weatherford®

REAL RESULTS

PrecisionLWD™ System Used to Drill Deepwater Prospect

Objectives

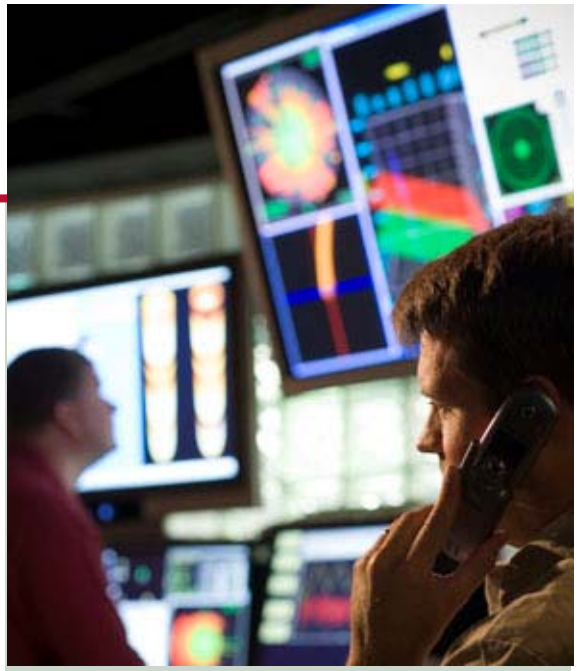
- Conduct a logging-while-drilling (LWD) operation on a deepwater well in the Gulf of Mexico.

Results

- Weatherford's *PrecisionLWD* system performed 14 bit runs, reaching a total depth of 21,000 ft (6,400 m). Temperatures ranged from 282° to 361°F (139° to 183°C). The maximum pressure recorded was 20,524 psi (142 MPa).
- The MFR™ multifrequency resistivity sensor accurately predicted pore pressure and helped determine what type of wireline data to use at specific intervals.
- BAP™ bore and annular pressure sensor data measured equivalent circulating density and helped to minimize mud losses
- The HAGR™ high-temperature azimuthal gamma-ray tool and seismic data helped determine changes in lithology.
- IDS™ integrated directional sonde provided directional and toolface measurements.

Value to Client

- The reliable acquisition and surface transmission of while-drilling data was critical to the project's successful execution.



The *PrecisionLWD* system stands up to shock and vibration stresses to perform flawlessly at high temperatures and pressures. The system can work with either mud-pulse or electro-magnetic telemetry systems and has a broad range of wireline-compatible formation evaluation sensors, including resistivity, density, and neuron, which come in a full array of sizes. The *PrecisionLWD* system can also be combined with rotary-steerable systems of virtually all sizes.

Location
West Cameron, Gulf of Mexico

Total Runs
14

Operating Hours
1,514

Circulating Hours
984

Maximum Temperature
361°F (183°C)

Maximum Pressure
20,524 psi (142 MPa)

Products/Services
PrecisionLWD service with *MFR* and *BAP* sensors, the *HAGR* tool and *IDS*

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