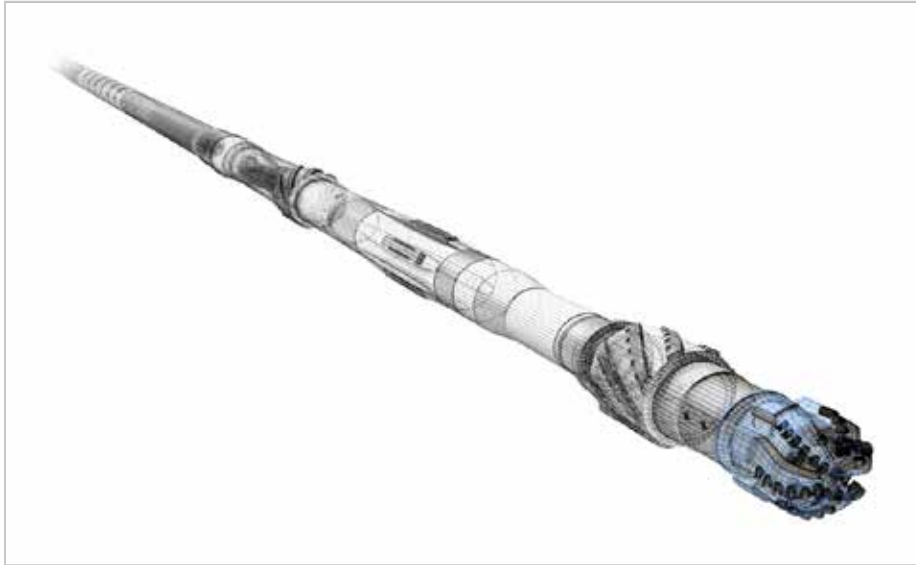


Revolution® RSS with HEL™ MWD System Improves ROP To Save Operator More Than \$1 Million in Eagle Ford Shale Well



The Revolution rotary-steerable system (RSS) uses innovative point-the-bit technology to increase well value by providing superior wellbore quality and accurate wellbore placement while minimizing drilling risks. Unlike conventional push-the-bit systems, the RSS keeps the drill-bit face square to the rock and to the axis of the planned well path.

Objectives

- Improve drilling efficiency using an alternative to conventional directional drilling methods in an onshore horizontal well.
- Minimize rig time and operational expenditures.

Results

- Weatherford deployed its 6 3/4-in. Revolution RSS with measurement-while-drilling (MWD) tools to kick off from a near vertical inclination of 0.31° and built to 90°, holding 8°/100 ft (8°/30 m) to achieve a maximum inclination of 93.46°. The highest dogleg severity incurred on this well with the RSS was 13.46°/100 ft (13.46°/30 m).
- Near-bit inclination and HAGR™ high-temperature azimuthal gamma ray sensors were used to correlate real-time data and stay within the target zone.

Value to Client

- Using the RSS enabled the operator to improve the rate of penetration (ROP), eliminate the time spent sliding with a conventional motor assembly, and avoid an additional trip for a lateral assembly. These results shaved 18 days—valued at more than US \$1,117,000—from the operator’s previous best well at the time.



LOCATION

Texas, USA

FORMATION

Eagle Ford Shale

WELL TYPE

Onshore, horizontal

HOLE SIZE

8-1/2 in. (216 mm)

DEPTH

- In: 9,365 ft (2,854 m) MD
- Out: 17,126 ft (5,220 m) MD

PRODUCTS/SERVICES

- Revolution RSS
- Drilling services
- HEL hostile-environment-logging system
- HAGR sensor
- BAP bore annular pressure sensor

