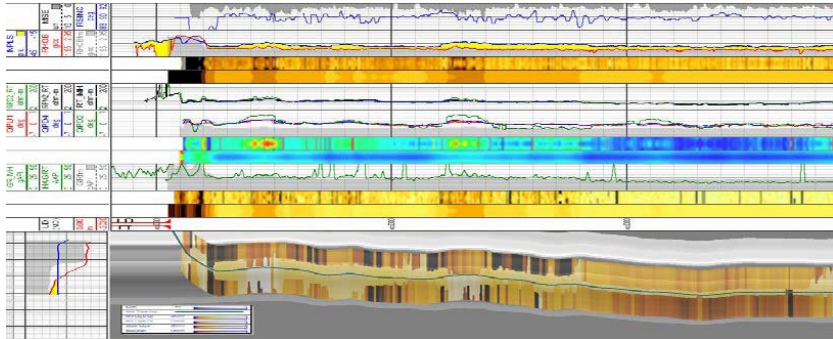


Integrated Drilling Services Delivered Smooth Horizontal Well, Record-Breaking ROP In Tight DLS, Saved Rig Time, Improved Future Accessibility



Earth model and image logs interpretation used while geosteering.

Objectives

- Drill a 6,000-ft (1,828-m) lateral in a thin zone across the highest productive zone.
- Keep a standoff from a light hydrocarbon zone in the top of the reservoir.
- Maintain the trajectory within tight dogleg severity (DLS) limits for the completion and future accessibility with coiled tubing.

Our Approach

- Weatherford experts landed the well precisely, avoiding bounce from the tight formation on the top of the reservoir.
- The optimized bottomhole assembly (BHA) design met geosteering requirements and achieved the desired technical drilling parameters. The BHA drilled the required lateral length, staying within pre-defined technical limits while addressing interpreted structure changes.
- The Weatherford team acquired nine high-quality reservoir pressure tests while pulling out of the hole for the enhanced completion design.

Value to Customer

- The precise landing shortened the overall length of the well, saving costs on materials such as completion tubulars.
- The smooth trajectory extended the expected well production timespan as well as allowed easy access in case stimulation was required.
- Real-time trajectory adjustments, carefully weighed and thought through, optimized drilling dynamics and surpassed the field ROP record by 40%, preserving tool integrity, and substantially reducing rig time.
- The experience gained in the first well helped to optimize future tool choices and saved service costs in future wells.

LOCATION

Middle East

WELL TYPE

Offshore, horizontal producer

FORMATION

Carbonate reservoir

HOLE SIZE AND ANGLE

6 in., 90° +/- 1 (up and down)

TEMPERATURE

205°F (69°C)

PRESSURE

3,635 psi (25 MPa)

HORIZONTAL DEPTH

6,000 ft (1,828 m)

PRODUCTS/SERVICES

- GuideWave™ azimuthal resistivity tool
- PressureWave™ formation tester
- InZone™ well placement service
- Revolution® rotary steerable system

