



Weatherford®

REAL RESULTS

Revolution® Rotary-Steerable Service Drills Challenging Horizontal Well with Significant Savings on Rig Time

Objectives

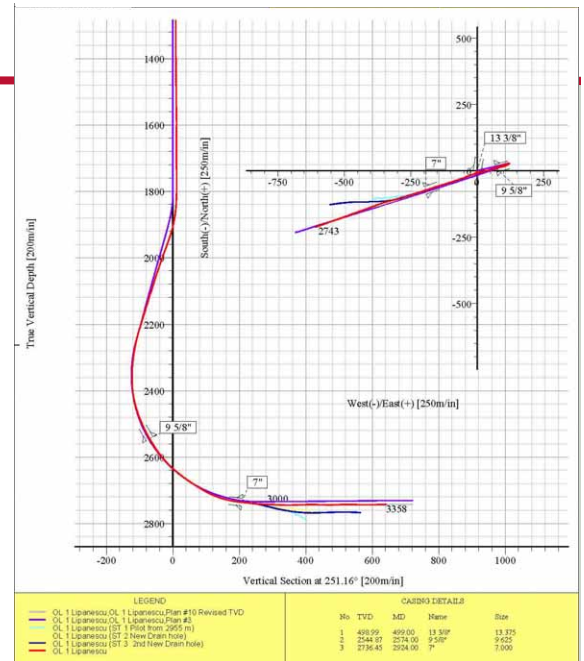
- Drill a horizontal well in a field in Lipanescu, Romania, with multiple lateral extensions.

Results

- Weatherford used its *Revolution* rotary-steerable system to successfully drill one pilot hole and four horizontal holes.
- The HEL™ (hostile-environment logging) LWD (logging-while-drilling) system was used to geosteer the well.
- During runs, the MFR (multi-frequency resistor) sensor was used to accurately predict pore pressure and help determine the type of wireline data that would be used at specific intervals.
- The HAGR™ (high-temperature azimuthal gamma ray) tool and seismic data were used to determine lithology changes.

Value to Client

- The reliability of the *Revolution* and *HEL* systems produced optimal results.
- Quick penetration rates, ranging from 16 to 31 ft/hr (4.9 to 9.4 m/hr), saved the operator valuable rig time.



Final multilateral wellbores geosteered using Weatherford drilling technologies

Location

Lipanescu, Romania

Formations

Sarmatian and Cretacic

Hole Sizes

One 8-1/2 in. and four 6-in.

Products/Services

- *Revolution* rotary-steerable service
- *HEL* LWD system
- MFR sensor
- *HAGR* tool