

Permian Operator Sets New Wolfcamp Lateral Record While Using the D-Tech RST, Beating All Previous RSS and Conventional Assembly Lateral Runs



The Challenge

- A Delaware Basin operator was drilling through the Wolfcamp A formation, which can be notoriously rough on bottomhole assembly (BHA) equipment and difficult to hold inclination and azimuth while geosteering.
- The customer wanted to complete the lateral in one run and optimize the rate of penetration (ROP) to quickly drill the 8 1/2-in. section.
- The D-Tech rotary steerable tool (RST) was chosen because of its robustness and ability to accurately steer through highly interbedded formations.

The Solution

- Before the run, D-Tech collaborated with the customer's teams to run the optimal BHA. During the run, D-Tech's real-time remote group monitored operations to maximize performance in this challenging application.
- The D-Tech tool tracked extremely well, allowing for minimal downlinks (18 total).
- The Inclination and Azimuthal hold command was utilized for the majority of the run, with 87% of the footage drilled in this mode.

The Benefit

- The operator successfully drilled 6,879 ft in 57 drilling hours, at an average ROP of 120 ft/hr.
- The D-Tech tool constantly held the desired well plan for the duration of the lateral, and steered the well exactly where the customer wanted.
- The BHA eliminated slide time and tortuosity in the wellbore, helping the operator set a new field record, which was previously set with a conventional assembly.