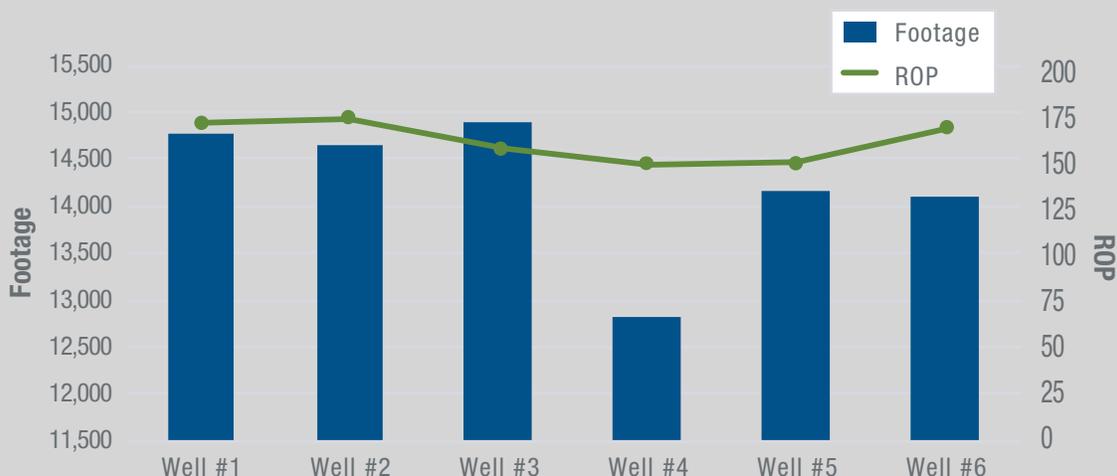


D-Tech RSS Helps Operator Drill Five Consecutive One-Run Extended-Reach Laterals



The Challenge

- A Midland Basin operator was drilling from various multiwell pads in different Wolfcamp formations to access production zones in the most economical manner.
- The customer was drilling 12,000+ foot laterals—up to three-miles long—but struggled with bottomhole assembly (BHA) reliability, lower rates of penetration (ROP) towards the end of the runs, and torque and drag at the end of the lateral.
- Different conventional motors had been used to boost ROP towards the end of the lateral. The customer had also tried other rotary steerable tools, but struggled to remain economical due to the high up-front and backend costs.
- Ultimately, the customer reached out to the D-Tech team because of their previous successes in the area, as well as their ability to provide a low-maintenance, high-performance tool.

The Solution

- D-Tech analyzed the well and directional plans and then met with the customer to discuss the best recommendation. D-Tech and the operator developed an optimized BHA and drilling plans to accomplish the customer's goals and objectives.
- Before utilizing the D-Tech rotary steerable system, the operator was able to successfully drill the extended-reach lateral in one run, less

than 10% of the time. They also saw a significant reduction in daily footage on the last 5,000 foot of the lateral due to higher torque and drag issues.

- Over the course of the five-well operation, the D-Tech team met with the customer and their directional service provider in between each well. Using the downhole D-Tech data, MWD data, and surface data, they tweaked the BHA setup to help optimize performance and decision-making for the next well.

The Benefit

- With the D-Tech RST675 tool, the operator successfully drilled five ERD laterals (all 8 ½-in. holes) to completion, while being able to evaluate how these laterals will economically produce.
- This was the highest level of performance for the customer in their extended-reach directional (ERD) laterals. This culminated in the longest and fastest one-run lateral the customer had ever drilled, and at the time, the longest and fastest one-run lateral in the Permian.
- The operator was able to hold a consistently higher level of performance than previously experienced. They commended D-Tech's service quality during and after the run, which allowed them to drill the ERD laterals before adjusting their well plans.