

# Delaware Basin Operator Sets 24-Hour Footage Record in 7 7/8-in. Section With D-Tech RST650 Tool



**Record 7<sup>7</sup>/<sub>8</sub> in. Lateral**  
Difficult Bone Springs formation



**3,800 ft**  
Drilled in 24 hours

## The Challenge

- A Delaware Basin operator needed to drill the 7 7/8-in. lateral section of their well through the Bone Springs formation, which is challenging due to its interbedded carbonate layers of limestone and sandstones.
- They had tried traditional drilling assemblies, but had struggled to complete the lateral effectively. An adequate rotary steerable system was not available.
- The operator wanted to reduce their days on well by increasing the rate of penetration (ROP) and decreasing the number of bottomhole assemblies (BHA). BHA optimization is a big challenge in this hole size due to bit, motor, and other component selections.

## The Solution

- The D-Tech Rotary Steerable team collaborated with the operator and directional company to determine their challenges and goals, and recommended that the fit-for-purpose RST650 tool be added to the BHA.
- The D-Tech BHA drilled 3,800 ft in 24 hours. Due to reduced tortuosity and more efficient energy transfer, the BHA was able to maintain above-average ROP throughout the run.
- In addition to drilling faster, the D-Tech RST provided a quality wellbore, since the tool never slowed down to steer and stayed in the zone 100% of the time.

## The Benefit

- D-Tech's RST650 completed the 7 7/8-in. lateral in the difficult Bone Springs Formation without incident, achieving a footage record—for all tool sizes—by drilling 3,800 ft in 24 hours for the operator.
- By providing the customer with an affordable and reliable RST for this challenging application, the D-Tech tool helped reduce days on well, set ROP and footage records, and saved both time and money towards the planned AFE.
- The client was pleased with the RST650 tool's ability to reliably reach total depth (TD) on schedule, while maintaining the well plan. They will continue using D-Tech in this hole size and other hole sizes.