

Delaware Basin Operator Maximizes Performance in a Build, Hold, and Drop Application with D-Tech's RST900



The Challenge

- An operator drilling in the Delaware Basin wasn't able to steer to the well plan and maintain reliability with a competitor's rotary steerable system (RSS) in a 12 ¼-in. build, hold, and drop application.
- They had experienced multiple short-hour/short-footage failures, causing them to feel the technology wasn't an economical option to drill the section.

The Solution

- A D-Tech RST900 rotary steerable tool (RST), combined with an 8-in. 7/8 5.9 mud motor and directional drill bit, was selected to drill the intermediate section.
- The operator completed the 7,365-ft tangent in 137 total drilling hours, achieving an overall average rate of penetration (ROP) of 54 ft/hour.

- The crew was able to kick off the tangent angle, control the build rates, and keep the dogleg severity to a minimum.
- D-Tech provided a 24-hr remote monitoring team to help maximize performance and paint the line on a 9-degree tangent.

The Benefit

- The D-Tech RST achieved the target inclination and held it until the desired wellbore separation was reached at approximately 6,800-ft md.
- Once back to vertical, the RST maintained less than one degree of inclination through an abrasive drilling environment and reached KOP without issue.
- The client was pleased with the RST900 tool's ability to reliably reach total depth (TD) on schedule, while maintaining the well plan.