Permian Basin Operator Achieves 24-h Drilling Record

A Permian Basin operator sought a durable solution to increase ROP in the top part of a vertical intermediate section consisting of mainly salt. The second half of the section is highly interbedded limestone and sandstone. An operator had accomplished a previous record drilling 4,500 ft in 24 h in a nearby offset well with a conventional bit. Following a best-in-class performance using the AxeBlade* ridged diamond element bit, which achieved 5,280 ft in 24 h, the operator wanted to further improve the performance.

Technologies
- Axe SR* scribe-ridged diamond elements
- PowerDrive Orbit* rotary steerable system
- AxeBlade ridged diamond element bit

Using an Axe SR scribe-ridged diamond element and a PowerDrive Orbit rotary steerable system, the operator drilled 6,183 ft in 24 h, accomplishing a new record. The unique scribe shape of the Axe SR elements significantly improves ridged-element cutting efficiency.