

Lithology	Salt, limestone, and sandstone
Bit diameter, in	9 $\frac{7}{8}$
Hole size, in	9 $\frac{7}{8}$
Footage drilled in one run, ft	6,183

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.

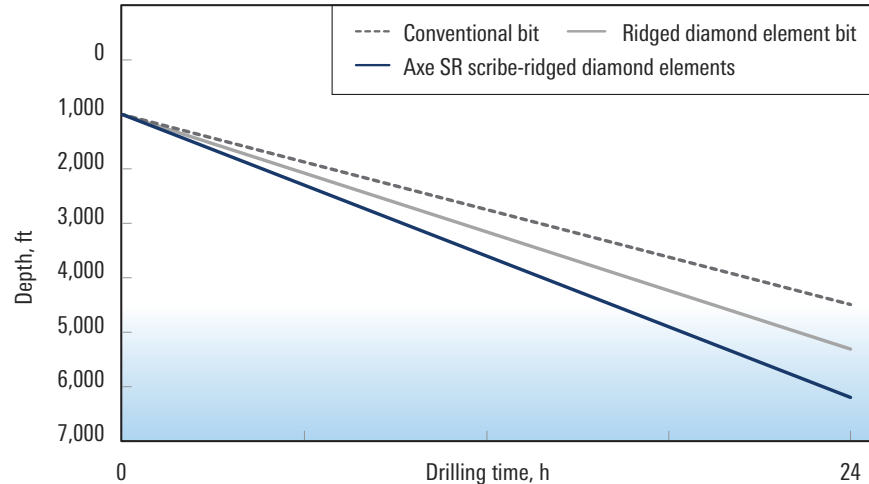
Technologies

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

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# Permian Basin Operator Achieves 24-h Drilling Record

Axe SR scribe-ridged diamond elements drill 6,183 ft in one day



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.