

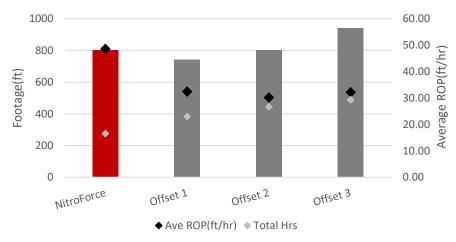
Operator Drills Curve Section in One Run, Reduces Well Time

NITROFORCE™ HIGH-FLOW, HIGH-TORQUE MOTOR DRILLS CURVE 37% FASTER

WILLIAMS COUNTY, BAKKEN, NORTH DAKOTA

An operator challenged the Halliburton Sperry Drilling team to deliver a onerun curve section of an unconventional well in 12 hours or less. By
collaborating with the operator on the bottomhole assembly design, the
Sperry Drilling team engineered a drilling solution utilizing the NitroForce™
high-flow, high-torque motor with 0.40 revolutions-per-gallon and a 2.25degree fixed bend housing specifications. This design achieved
consistently high horsepower while maintaining high differential pressure.
The curve was drilled successfully in 7.5 hours at an average 15.85degrees /100 ft. dogleg severity. It is 37% faster than originally planned.
The entire section was drilled in 16-1/2 hours, significantly reducing well
time and maximizing the value of the asset.

Comparison to Offsets Wells



The NitroForce[™] motor improved total hours for the section by an average of 9.7 hours, improving the average rate of penetration by 54%.



The NitroForce™ motor helps reduce well time with its high-flow and high-horsepower capabilities.

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