



**Toro
Downhole
Tools**

Highlights

Drilling in Oklahoma

Reduced Trips

Less Drill Bits

Better Performance

Toro Motor Saves Operator 2 Trips & 2 Bits

CHALLENGE:

Toro was asked to provide 8" Downhole Motors capable of drilling an intermediate section in Sayer, Oklahoma. The Operator wanted to drill with fewer trips, eliminate Motor Failures, and limit the RPG's to protect the drill bits.

SOLUTION:

Toro recommended both our 800-9:10.4.0 Slow-Speed Motor (RPG .20) and 800-9:10-3.0 Very Slow Speed Motor (RPG .08) to drill the well. Four Motors were assembled under the watchful eye of Toro Engineering Services and Toro's own in-house Level II inspection team. Since there were no deviation issues, the Motors were assembled straight with no near bit stabilizer.

RESULTS:

The Operator entered the well at 1,515' with our 800-9:10.4.0 Slow-Speed Motor (RPG .20). The Motor drilled for 178 hours and was pulled to replace the drill bit. The Operator then entered the well at 6,764' with the 800-9:10-3.0 Very Slow-Speed Motor (RPG .08) as a formation change was encountered. The Motor drilled for 105 hours and was pulled to replace the drill bit. Finally, the Operator entered the well at 8,940' with our 800-9:10.4.0 Slow-Speed Motor (RPG .20) and finished the well at 10,540' in 125 hours.

OPERATOR VALUE:

The three Motors drilled over 9,025 feet, with an average ROP of 22.12'. The entire well was drilled with three Toro Downhole Motors, saving the Operator two trips in and out of the hole and two drill bits.

Once again Toro's Downhole Motors were able to complete the challenge.



Reliable Tools | Proven Performance

