

8.50" Curve and Lateral Section in Single Bit Run

Reeves County, Texas

Mechanical Thruster



Challenge

An operator in the Midland Basin was seeking to drill the 8.50" curve and lateral section in a single run using a motor assisted RSS assembly.

Application

After analyzing several wells in the area, the Cougar DS team recommended placing a MT6 Dual Acting Mechanical Thruster to assist with bit engagement and vibration mitigation. The dual acting feature would allow the tool to be functional from 0 to 90 degrees.

Results

The operator was able to achieve a single run to TD as planned, drilling over 14,000 ft in less than 4 days. The MT6 Mechanical Thruster was effective during the entire run (see plot below) and assisted the operator to achieve the initial objective.

+ 14,000 ft Drilled in
3.68 Days



RSS BHA

BHA	OD
Bit	8 1/2"
RSS	6 3/4"
MWD	6 3/4"
Cougar Thruster	6 3/4"
Mud Motor	6 3/4"

