

6.00” Curve and Lateral Sections in a Single Run

Reeves County, Texas

Mechanical Thruster



The Challenge

A major Delaware Basin operator needed to make multiple trips per lateral section due to premature bit wear, resulting in increased AFE costs. The operator aimed to drill a six-inch curve and lateral section with a single BHA run in the Bone Spring formation.

The Solution

Applying a Mechanical Thruster at the BHA, allows the shock tool at the vibratory tool to extend and compress as planned. It also allows the drillstring between the two, to move axially, breaking friction, and moving more effective weight to the bit. The MT3X-500 was added in the BHA, on top of the NMDCs.

Results

By using an optimized BHA with the Mechanical Thruster and the vibratory tool running together, the operator achieved a one-run curve and lateral, with minimum drilling dysfunction. The project came in below AFE and saved the operator additional costs.

Are you getting maximum effectiveness from your vibratory tool or is it restricted by an overly stiff string?

Applying a Mechanical Thruster at the BHA allows the shock tool at your vibratory tool to extend and compress as planned and allows the string in between the two to move axially, breaking friction and moving more effective weight to it.

Single Run Footage

9,248'



Run Overview

Sliding Percent	11.54%
Average ROP	108.2 ft/hr
Drilling Time	85.5 hours
Avg Sliding ROP	39.11 ft/hr
Avg Sliding WOB	24.97 klbs

Days vs. Depth—6.00” Curve and Lateral

