Case Study

80% Reduction in Shock and Vibration

Reeves County, Texas

Mechanical Thruster

Challenge

A Midland basin operator experienced high shock and vibration and wanted to reduce it to increase drilling efficiency and reduce section costs.

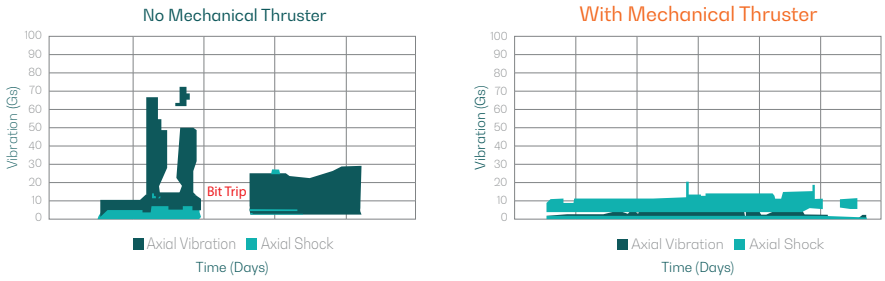
Application

Analyze BHA, well profile, drilling performance requirements and discuss specific objectives with drilling team. Optimize MT6-800 configuration and placement for maximum effectiveness.

Results

Over a five well offset comparison, shock and vibration significantly reduced, section times decreased and $41,000 average savings per well. Operator has continued to run the thruster across their drilling program with repeated results.

Axial Shock and Vibration Comparison



Vibration Decrease with Thruster	
Axial Vibration	80.38%
Lateral Vibration	29.86%
Axial Shock	62.18%
Lateral Shock	41.59%

Average Section Time Reductions

15%
Surface Section

8%
Intermediate Section

Total Savings Per Well

~$41,000

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