

# 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.

Average Section Time Reductions

**15%**

Surface Section

**8%**

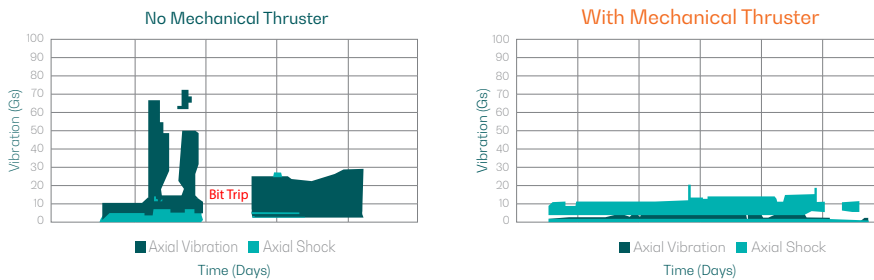
Intermediate Section



Total Savings Per Well

**~\$41,000**

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%

