

THRUSTER SUCCESS STORY

80% REDUCTION IN SHOCK AND VIBRATION

lidland County, Texas US







The Thruster provides consistent force to bit by balancing hydraulic and mechanical forces. This balance provides smooth energy transfer to the bit, even in erratic situations. By providing consistent parameters, the Thruster reduces shock and vibration,BHA damage and failures.

THE CHALLENGE

A Midland basin operator experienced high shock and vibration in their 12.25" intermediate sections which was causing an average of a bit trip per section.

THE SOLUTION

THE RESULT

After analyzing the recent offset wells (profiles, BHA, vibration), TAQA recommended adding the Thruster to their BHA with a standard spring setting. The final BHA was: PDC + Motor + MWD + Thruster.

Over a five well offset comparison, shock and vibration significantly reduced, sec-

tion times decreased and \$41,000 average savings per well. The Operator has continued to run the Thruster across their



Axial Shock and Vibration

Comparison

Time (Days)





drilling program with repeated results.

Average Vibration and Shock Decrease with Thruster

Axial Vibration	4.18g	0.82g
Lateral Vibration	1.44g	1.01g
Axial Shock	7.88g	2.98g
Lateral Shock	3.15g	1.84g

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