



THRUSTER

SUCCESS STORY

ROP INCREASE IN 12 1/4" INTERMEDIATE SECTIONS IN DELAWARE BASIN

Reeves, Texas

\$60K
POTENTIAL COST SAVINGS

21.5%
REDUCTION IN DRILLING HOURS

\$5.91
SAVINGS PER FOOT DRILLED

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

An operator in the Delaware Basin was consistently drilling one run 12.25" intermediate sections with a conventional BHA that included a shock tool. Their next objective was to decrease drilling times.



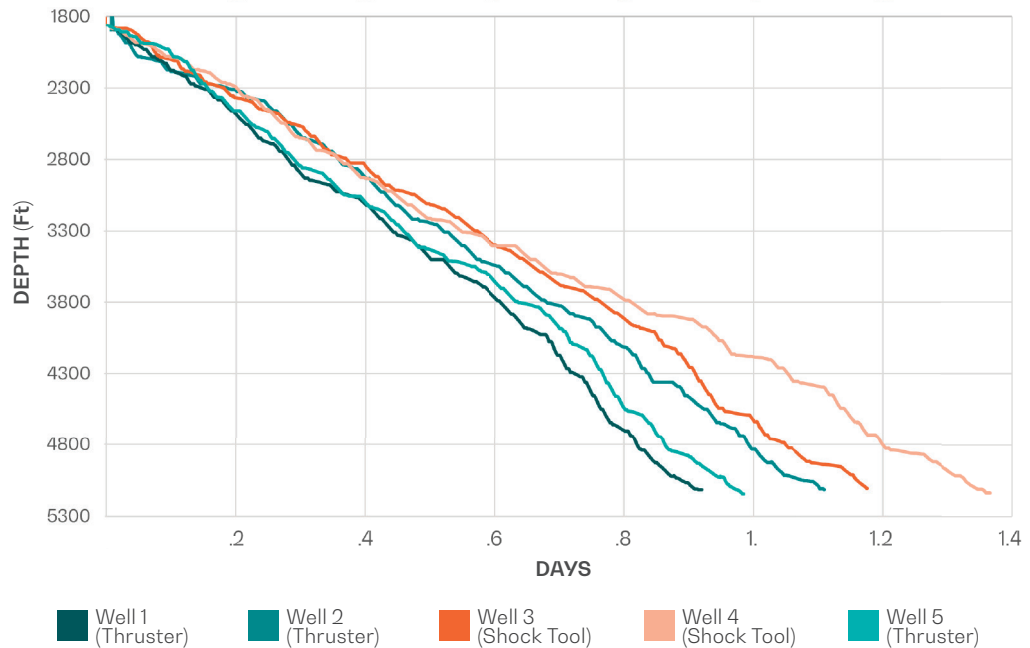
THE SOLUTION

TAQA recommended replacing the shock tool with the 8" Thruster to increase consistency in drilling parameters.

THE RESULT

The 12.25" sections drilled with the Thruster had a reduction in hours of 21.5%, from 30.4 hours to 23.8 hours. ROP increased by 27%, from 108.7 ft/hr to 138 ft/hr.

Depth vs Days



RUN OVERVIEW

- 12.25" PDC Bit
- 8" Mud Motor
- Reamer
- UBHO
- MWD
- NMDC
- **Thruster**
- Drill Collars

Well	Depth In (ft)	Depth Out (ft)	Total Footage	Hours	ROP (ft/hr)	Tool
Well 1	1862	5125	3263	26.5	123.1	Thruster
Well 2	1860	5115	3255	21.75	149.7	Thruster
Well 3	1862	5145	3283	27.75	118.3	Shock Tool
Well 4	1861	5135	3274	33	99.2	Shock Tool
Well 5	1861	5144	3283	23.25	141.2	Thruster