

\$32K
ESTIMATED COST SAVINGS

23%
REDUCTION IN DRILLING HOURS

24%
ROP INCREASE

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 was seeking to increase their drilling performance in a 12.25" intermediate section.

THE SOLUTION

Evaluated drilling performance and recommended adding the 8" dual acting Thruster (MT6-800) with a medium stiff spring configuration to the BHA. The MT6-800 was added above the MWD. The BHA consisted of a bit, mud motor, stabilizer and MWD.



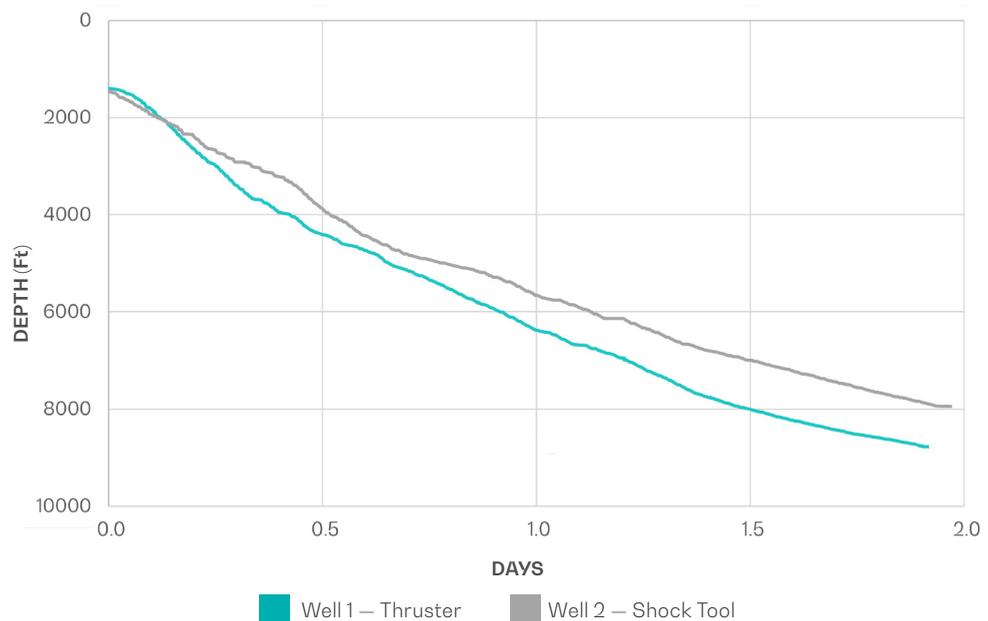
THE RESULT

Average ROP in Well 2 increased by 24%, from 139.6 ft/hr to 173.3 ft/hr. The BHA that included the Thruster was able to drill 887 ft more in 4.25 hours faster. The interval from 1400 ft to 8000 ft, was drilled 23% faster in Well 2. Well 1 was drilled in 46.75 hours vs 36 hours in Well 2.

RUN OVERVIEW

- 12 1/4" PDC Bit
- Mud Motor
- Stabilizer
- MWD
- NMDC
- **Thruster**
- Drill Collars

Depth vs Days



Well	Bit #	Size	Bit	TFA	Depth In	Depth Out	Total Drilled	Hours	ROP	Tool
1	2	12.25"	HD65	0.803 in ²	1405 ft	8772 ft	7367 ft	42.5	173.3	Thruster
2	2	12.25"	HD65	0.803 in ²	1469 ft	7945 ft	6480 ft	46.75	139.6	Shock Tool