

DRILLING CONSISTENCY RESULTS IN 35% ROP INCREASE IN 10 5/8" INTERMEDIATE

Eddy County, New Mexico, US

\$81K
POTENTIAL COST SAVINGS

20%
INCREASE IN FOOTAGE DRILLED

35%
INCREASE IN AVERAGE ROP

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

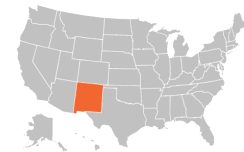
A Delaware Basin operator was seeking to increase bit and BHA life in their intermediate sections to be able to drill longer and faster.

THE SOLUTION

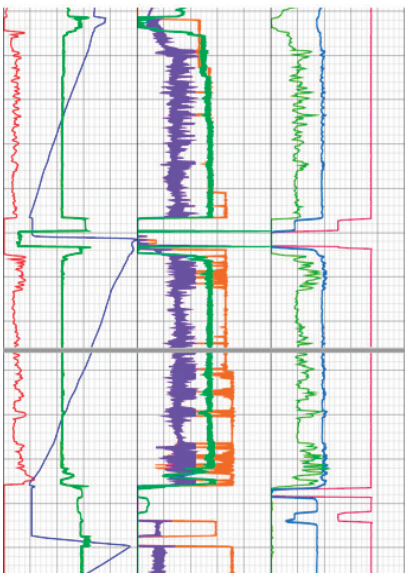
After performing a detailed pre run analysis, the 8" Thruster was introduced on the 3rd well of the pad. It was placed above the MWD.

THE RESULT

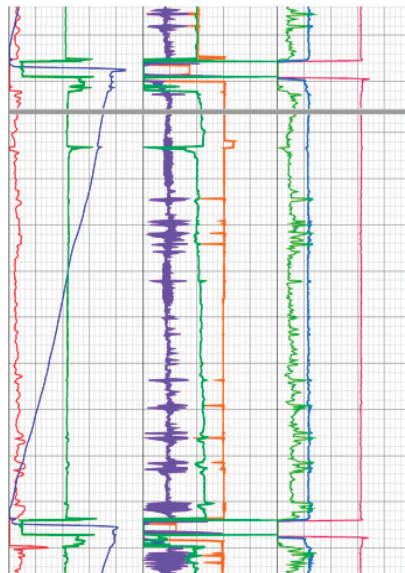
The improved drilling consistency allowed for a 35% increase in average ROP and 20% increase in footage drilled.



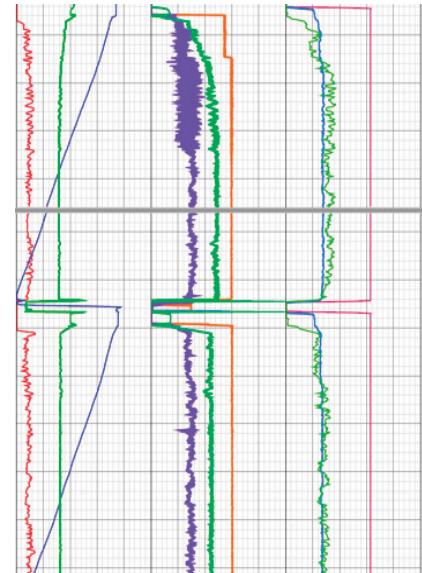
WELL 1



WELL 2



WELL 3 WITH THRUSTER



- ROP (ft/hr)
- WOB (lkbs)
- Flow Rate (gpm)
- Block Height (ft)
- Torque (ft-lbs)
- SPP (psi)
- Hookload (lbs)
- RPM (rpm)
- Diff Pressure (psi)

WOB = 40 - 50 klbs | RPM = 60 | Flow Rate = 730 gpm

Same conventional BHA for all wells. Shock tool used in Wells 1 and 2

8" Thruster placed above NMDCs in Well 3