Case Study

Mechanical Thruster and Cougar LEX Tool: 6 ⅛” Lateral Sections

STACK, Oklahoma

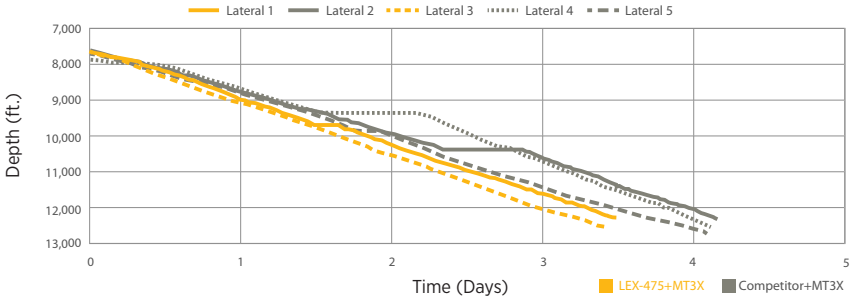
Are you getting maximum effectiveness from your vibratory tool or is it restricted by an overly stiff string?

Applying a Mechanical Thruster at the BHA allows the shock tool at your vibratory tool to extend and compress as planned and allows the string in between the two to move axially, breaking friction and moving more effective weight to it.

Case Summary

The following five 6 ⅛” laterals were drilled in Kingfisher County, Oklahoma. The Cougar DS LEX-475 was used in two of the laterals with the addition of the Mechanical Thruster MT3X.

Days vs. Depth—6 ⅛” Lateral Sections



Well	Total Drilled (ft.)	# Bits	Bit Hours	ROP (ft/hr)	Vibratory Tool	Total Slide (ft.)	Slide %
Lateral 1	4,659	1	62.0	75.1	LEX-475	401	8.61
Lateral 2	4,722	2	86.5	54.5	Competitor	720	15.25
Lateral 3	4,892	1	65.9	74.2	LEX-475	179	3.66
Lateral 4	4,891	1	80.5	60.7	Competitor	256	5.23
Lateral 5	4,896	2	79.5	61.5	Competitor	433	8.84

*Same drill bit and mud motor used in all laterals.

30%
Decrease in Bit Hours

25%
Increase in ROP

MT3X-500 BHA Placement

BHA	Size
Bit	6 ⅛”
Mud Motor	5”
MWD	4 ¾”
Cougar Thruster	5”

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