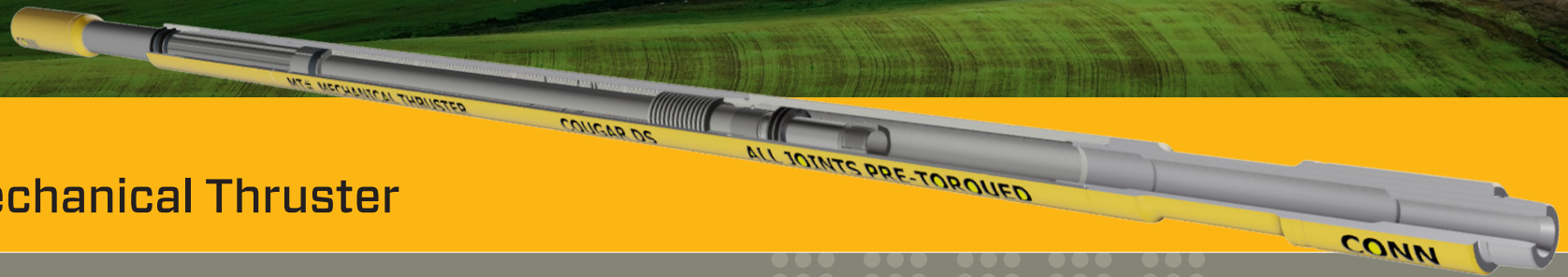


Every trip counts

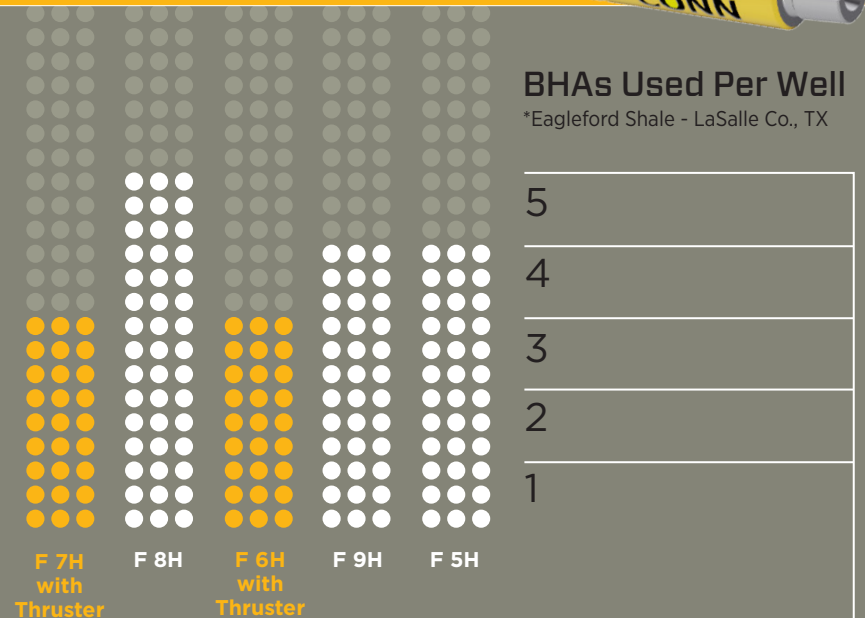


The Mechanical Thruster

Designed to increase reliability in your BHA components, The Mechanical Thruster provides more consistent drilling parameters from ROP, to WOB and DIFF.

The Mechanical Thruster provides a consistent force to the bit by balancing hydraulics (back pressure below tool) and mechanics (weight on bit). This balance provides smooth energy transfer to the bit—even in erratic situations.

Unplanned trips are expensive and burden your AFE. The Mechanical Thruster is proven to reduce excess trips and associated costs.

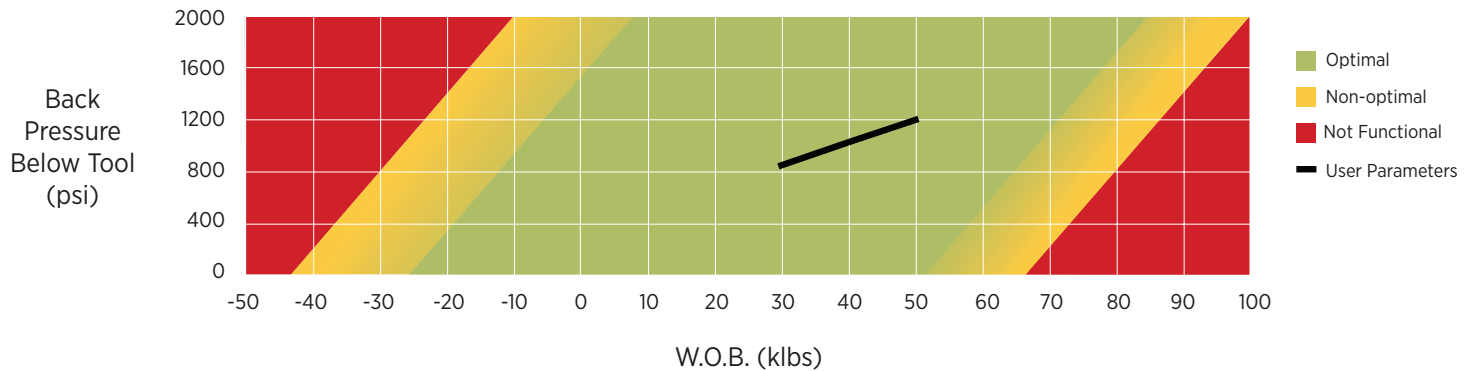


Specifications

	Size (in)	UP	DOWN	Maximum temperature rating 400°F			
		Max Stroke Length (in)	OAL (ft)	OD (in)	ID (in)	Dry Weight (lbs)	
MT3	500	N/A	24	24.00	5.00	2.25	1,000
	650	N/A	24	21.00	6.50	2.50	1,550
	800	N/A	24	22.50	8.10	3.00	2,700
MT6	650	8	8	19.80	6.55	2.50	1,600
	800	12	12	22.50	8.10	3.00	3,000

MT6-650 Mechanical Thruster Optimization Example

Mechanical Thruster performance optimizations are tailored per job and based on well and BHA specifics.



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