Case Study

700ERTcr7857 Power Section Outperforms in The Woodford and Meramec Fields

Objective:

To evaluate NOV's 700ERTcr7857 power section performance for a major operator compared against other leading motor competitors in the Meramec and Woodford fields of Central Oklahoma.

Scope:

Run data related to the 700ERTcr7857 power section vs. various competitor power section configurations was compared to determine the performance level of the ERT stator. Data was pulled from runs that occurred in the Blaine, Kingfisher, and Canadian counties in Oklahoma. The analysis focused on runs in 8 ¾-in. lateral intervals that took place between October 2017 and March 2019. Runs that included a rotary steerable system in the BHA were excluded. Key performance indicators focused on the following metrics:

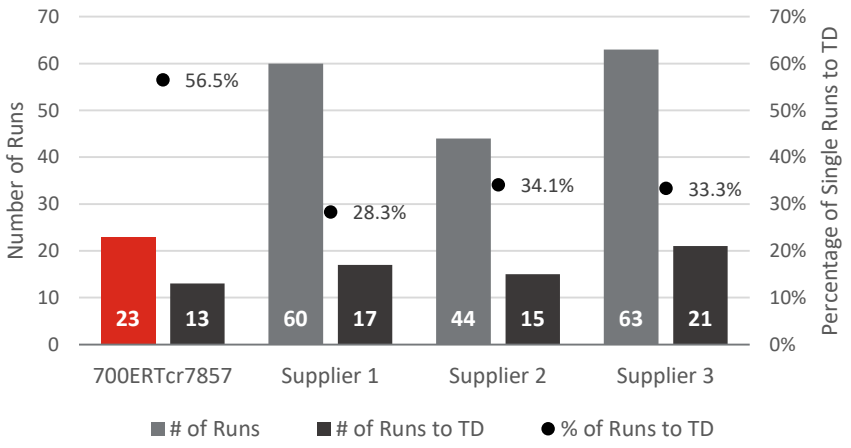
- Count and Percentage of single-run laterals to TD
- Average footage drilled

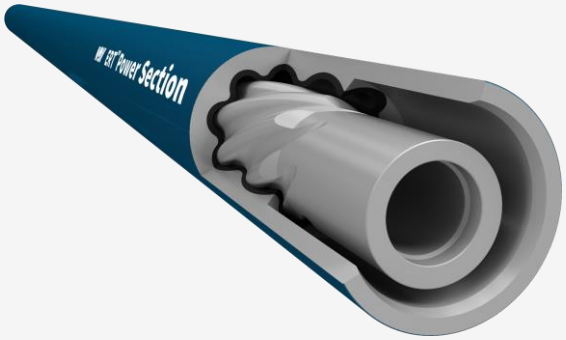
Results:

700ERTcr7857 power section runs clearly demonstrated a benefit for the operator over competitors on numerous performance metrics:

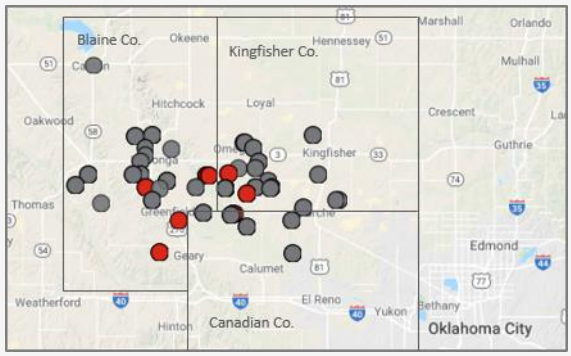
- 42% further average drilled interval than the closest competitor
- 66% higher rate of single-run laterals than the closest competitor

Supplier:	Runs	Average Footage	Single-Runs to TD	TD %
NOV 700ERTcr7857	23	4,605	13	56.5
Supplier 1:	60	3,159	17	28.3
Supplier 2:	44	3,018	15	34.1
Supplier 3:	63	3,251	21	33.3





Power Section Model:	700ERTcr7857
Outer Diameter:	7-in.
Power Section Type:	ERT™
Lobe	7/8
Stage	5.7
Revs per Gallon:	.23
Flow Range:	300 - 750 gpm



Client:	Confidential
Fields:	Upper Meramec & Woodford
Counties:	Blaine, Kingfisher, Canadian
State:	Oklahoma
Country:	USA
Date:	Q4 2017 – Q1 2019