

ERT Power Section Delivers Outstanding Bakken Lateral

A major operator completes an astonishing 14,754 ft extended lateral in Mountrail county, North Dakota using a 5-in. 6/7 8.0 ERT power section.

Challenge:

To provide a downhole motor capable of drilling an extended 6-in. lateral section to TD in a single run while maintaining a high ROP.

Solution:

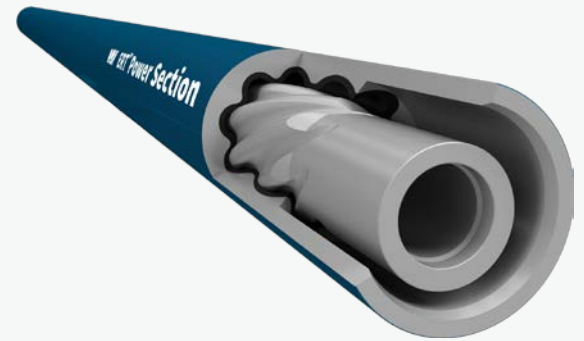
The Operator selected a 500ERTcr6780 Power section lined with PXP™ elastomer to drill this extended lateral. NOV's ERT™ technology features machined lobes, coated with an NOV high performance elastomer. This power section provides higher torque compared to identical configurations using conventional power sections.

Results:

The BHA began drilling at 10,880 ft MD, and drilled 14,754 ft, completing the lateral in 100.04 drilling and circulating hours, reaching TD at 25,634 ft MD. Over the course of the run, the BHA achieved the following:

- Single BHA used to drill lateral section to TD
- 14,754 ft interval drilled in 85.85 drilling hours
- Competitive Average ROP of 171.86 ft/hr
 - Average slide ROP of 30 ft/hr over 1,058 ft
 - Average rotary ROP of 272 ft/hr over 13696 ft

BHA #	Depth In (ft)	Depth out (ft)	Interval (ft)	ROP (ft/hr)	Dull Grade
5	10,880	25,634	14,754	171.86	0-2-WT-S-X-I-CT-TD



Power Section Model:	500ERTcr6780
Outer Diameter:	5-in.
Power Section Type:	ERT™
Elastomer:	PXP™
Lobe	6/7
Stage	8.0
Revs per Gallon:	.78
Flow Range:	150 - 350 gpm



Client:	Confidential
Well Name:	Confidential
Field/Block:	Sanish
County:	Mountrail
State:	North Dakota
Country:	USA
Date:	Q4 2019