

ERT Power Section With PXP Elastomer Completes Verti-Curve in a Single Run

Powered by NOV's 7-in. 6/7 7.8 ERT, a major operator drills both the vertical and curve section in a single run in Mountrail county, North Dakota.

Challenge:

To provide a directional motor to drill the 8¾-in. vertical and curve section through various formations in Sanish field in a single run. The motor would need to be capable of providing an aggressive build rate while maintaining a competitive ROP.

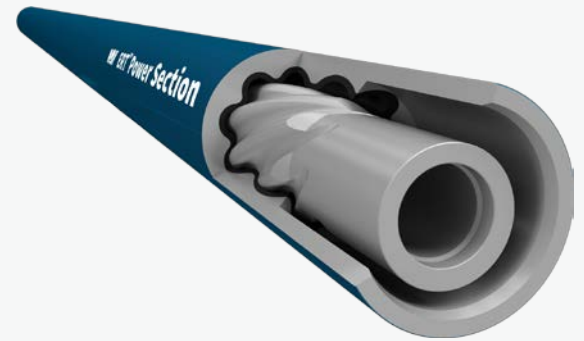
Solution:

The client selected a 700ERT6778 power section for this challenging run. NOV's ERT technology features machined lobes, coated with NOV's PXP™ high performance elastomer. This power section provides higher torque compared to identical configurations using conventional power sections.

Results:

- BHA drilled from 2,350 ft MD to 10,468 ft MD
- Drilled the 8,118 ft interval in 49.9 hours with an ROP of 162.6
- Drill bit performed well receiving a dull code: 1-2-BT-G-X-0-WT-TD
- BHA achieved and maintained a build rate of 12°/100ft
- Eliminated a trip usually spent changing from vertical to curve type BHAs

BHA #	Depth In (ft)	Depth out (ft)	Interval (ft)	ROP (ft/hr)	Dull Grade
2	2,350	10,480	8,118	162.6	1-2-BT-G-X-0-WT-TD



Power Section Model:	700ERT6778
Outer Diameter:	7-in.
Power Section Type:	ERT™
Elastomer:	PXP™
Lobe	6/7
Stage	7.8
Revs per Gallon:	.032
Flow Range:	500-750 gpm



Client:	Confidential
Well Name:	Confidential
Field/Block:	Sanish
County:	Mountrail
State:	North Dakota
Country:	USA
Date:	Q3 2019