

NOV drilling system sets operator record

Performance
Summary

ReedHycalog™ 6"TK56 drill bit, NOV lateral motor, and Agitator™ drills fastest 2.5 mile lateral for operator

Challenge:

Drilling the 6" lateral section with a single BHA, while maintaining a high ROP.

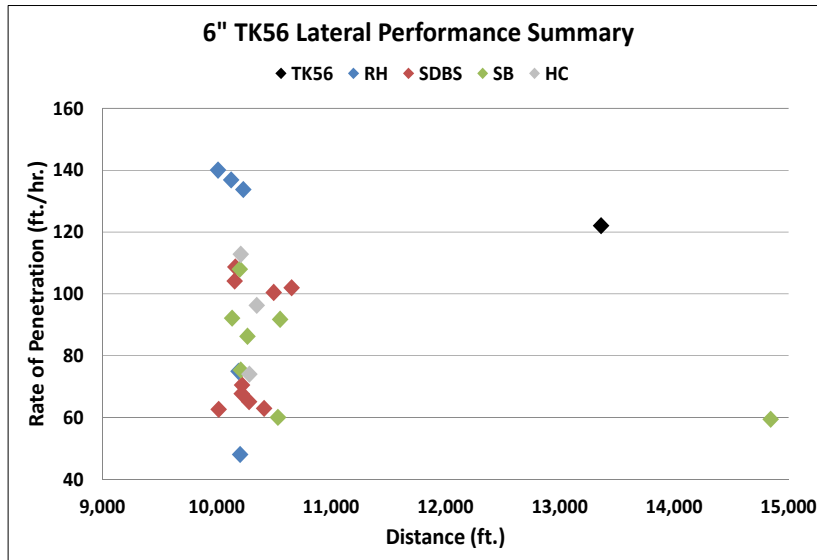
Solution:

A major operator, in the Williston Basin, ran the NOV drilling system to finish the production section of a Bakken lateral well. A 6" TK56 drill bit was combined with a 5"6/7 lobe, 8.0 stage, 0.8 rpg ERT™ power section and 5½" Series 36A bearing pack, as well as a 5" Agitator in water-based mud.

County	McKenzie
State	North Dakota
Country	USA
Date	Q4 2015
Lithology	Middle Bakken Siltstone

Results:

- Drilled 13,361 ft. with an average ROP of 122 ft./hr.
- TD'd lateral section
- 50% increase in average ROP



6" TK56



MFR.	# of Bits	Depth In (ft.)	Depth Out (ft.)	Distance (ft.)	IADC Hours	ROP (ft./hr.)
TK56	1	11,572	24,933	13,361	109.5	122
RH	5	10,944	21,257	10,153	114.1	89
SDBS	9	10,402	20,693	10,291	131.1	79
SB	7	11,071	22,034	10,964	142.8	77
HC	3	11,424	21,722	10,281	112.3	92
Offset Avg.	24	10,838	21,331	10,457	128.6	81
Delta	-	7%	17%	28%	-15%	50%

Offsets include all 6" lateral runs that drilled over 10,000 ft. for this operator in the Williston Basin, USA.