

# Operator Records Fastest Vertical Section Run with SelectShift Motor

6¾-in. Vector Series 36 and 7½-in. Series 50 SelectShift motors shines in vertical section to TD in Richland County, MT

### Challenge:

To provide a pair of high-performance motors capable of drilling the upper and lower intervals of the client's 8¾-in. vertical section to TD while maintaining a competitive ROP.

### Solution:

The client selected the 6¾ in. Vector™ Series 36 drilling motor paired with a 675ERT7850 even-walled power section to complete the upper interval of the vertical section. They then selected the 7½-in. Vector Series 50 SelectShift™ downhole-adjustable drilling motor paired with a 675ERT7850 even-walled power section to complete the lower vertical section of the well. The Vector Series 50 SelectShift drilling motor was chosen because it provides industry leading torque output with 100% flow to the drill bit. Engineered to be 35% stronger than previous generations of motor technology, this motor can be run on our strongest ERT™ power sections.

Each motor was run with an 8¾-in. ReedHycalog™ TK66-J3 Tektonic™ fixed cutter drill bit to provide an aggressive ROP and consistent toolface control while drilling the upper and lower vertical sections of the well.

### Results:

Each NOV motor and bit combination BHA exceeded the client's expectations with both runs combined resulting in the fastest vertical section drilled by the operator (Average ROP of 368 vs 336 ft/hr). Over the course of drilling the upper and lower intervals of this vertical section, these Tektonic bit and Vector drilling motor BHAs achieved the follow:

#### Upper Vertical run (8 ¾-in. TK66-J3 and 6¾-in. Vector Series 36 run)

- Drilled the upper interval from 2,095 ft to 8,174 ft in 16.95 drilling hours
- Average ROP of 358.58 ft/hr

#### Lower Vertical run (8¾-in. TK66-J3 and 7½-in. Vector Series 50 SelectShift run)

- Drilled the lower section from 8,173 ft. to 9,956 ft. in 16.33 hours to KOP TD
- Average ROP of 226.17 ft/hr



<b>Client:</b>	Confidential
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<b>Well Name:</b>	Confidential
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<b>County:</b>	Richland
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<b>State:</b>	Montana
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<b>Country:</b>	USA
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<b>Date:</b>	Q3 2020
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