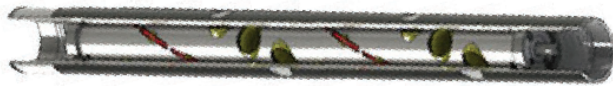


TCP Motor Cleanout System

TCP Motor Cleanout System Saves Operator Time on Location



HIGHLIGHTS

- Single Trip Operation
- Time Delayed TCP
- Proprietary Solution
- Saved Operator Time on Location

DETAILS

Location	Lewis County, WV
Formation	Marcellus
Casing Size	5 1/2" 23#
Well Orientation	Horizontal
Fluid	Water
Conveyance	2.88" Snubbing Unit
Operation Type	Cleanout and TCP
Kickoff Point	3,102 Ft
Total Measured Depth	28,120 Ft
Tools Used	3.13" TCP Motor Cleanout System 3.13" F5 Motor

OBJECTIVE

A customer in the Appalachia had a toe port at 28,030' that failed to open.

RESULTS

Working off a stand-alone snubbing unit, the TCP Motor Cleanout System was deployed to perform a clean out run and provide the ability to perforate the first stage without pulling out of the hole. The 3.13" F5 Motor was used to drill 1000' of cement before reaching TD at 28,120'. Once cement was removed, TCP guns were pulled to depth at 27,965' and a ball was deployed from surface to isolate the flow through the motor. Once the desired pressure was applied; three 18 shot guns were fired, separated by a time delay fuse between each gun, creating a total of 54 perforations between 27,965' and 27,845' to establish injection rate.

VALUE TO CUSTOMER

By combining a typical two-trip operation into a single-trip solution, the TCP Motor Cleanout System saved the operator 48 hours of rig time.

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