

Case Study

TCP Motor Cleanout System

TCP Motor Cleanout System Established Toe Injection

Case Study No. 2501

DETAILS:

Location:	Reeves County, TX
Formation:	Wolf Camp
Casing Size:	4-1/2" 11.6#
Conveyance:	2-3/8" CT
Total Measured Depth:	18,437'
KOP:	9,467'
Well Orientation:	Horizontal
Fluid:	Water
Operation Type:	Cleanout and TCP
Tools Used:	3.13" TCP Motor Cleanout System 3.13" F5 Motor 3.13" XRV G3

RESULTS:

An operator in Texas required a remedial solution to clean out a wellbore with a toe port failure, and remove cement from the toe of the well. To provide the most efficient operation for the customer, Thru Tubing Solutions mobilized the proprietary 3.13" TCP Motor Cleanout System which includes a F5 Motor and the XRV G3. This single trip system provided a clean out run along with tubing conveyed perforating to establish toe injection.

Once deployed, cement stringers were encountered part way through the lateral at 14,500'. Using a combination of TriboSlick Friction Reducer and the XRV G3, 4,000' of cement stringers were drilled out prior to reaching TD at 18,437', in a total of 7.5 hours. Once the cleanout operation was complete, the TCP guns were pulled to depth at 18,422' and a ball was deployed from surface to isolate the flow through the motor. Pressure was then applied to fire the guns, creating 8 perforations. Once the tools were pulled out of the hole, an injection rate of 10bbl/min at 4600psi was established. The TCP Motor Cleanout System provided a single trip option which saved the operator 26 hours of coiled tubing and auxiliary time, as well as footage and cycling charges.

HIGHLIGHTS



- Single Trip Operation
- 8 Shots @ 120° Phasing
- Proprietary Solution
- Saved Operator Time on Location



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