

TCP MOTOR CLEANOUT SYSTEM

TCP Motor Cleanout System Establishes Injection Rate After Wet Shoe Lock-Up

DETAILS:

Location:	Atascosa County, TX
Casing Size:	5-1/2" 23#
Conveyance:	2-5/8" Coiled Tubing
Total Measured Depth:	25,364'
Lateral Length:	16,800'
Kick-Off Point:	7,639'
Well Orientation:	Horizontal
Fluid:	Fresh Water
Operation Type:	Cleanout and TCP
Tools Used:	3.13" TCP Motor Cleanout System 3.50" Gun Carrier with 2.75" Guns 3.13" WavForce XRV

RESULTS:

The operator of an Eagle Ford well encountered a problem when their wet shoe became locked up, preventing them from completing the necessary toe prep operation. To solve this problem and restore injection, they contacted Thru Tubing Solutions (TTS) to employ the TCP Motor Cleanout System, which offered a one-trip solution. However, the 16,800' toe-up lateral presented a challenge in achieving the target depth. Pre-job friction modeling determined that a 0.15 friction coefficient was required to reach PBTD using a 2-5/8" coil tubing string. To ensure success, TTS utilized their proprietary WavForceXRV technology and pipe-on-pipe lubricant.

Once the tools were deployed, TTS was able to clean the well to PBTD at a depth of 25,364' in just 6 hours. A ball was then launched from the surface to isolate the flow to the motor and activate the two-stage firing head. After the required surface pressure was reached, the guns fired, creating 36 perforations above the shoe. Adequate injection rate was established allowing wireline to be pumped down, initiating the completion of the well.

The patented TCP Motor Cleanout System developed by TTS incorporates a motor and extended reach tool below the perforating guns, which is essential for long lateral wells like this one. Pre-job modeling showed that using lubricant alone would have resulted in coil tubing lock-up approximately 6,300' shy of PBTD. Despite the challenges, TTS was able to complete the intervention in 13 hours, demonstrating the efficiency and reliability of their products and services.

Reference DT 276402

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