Case Study

TCP Motor Cleanout System

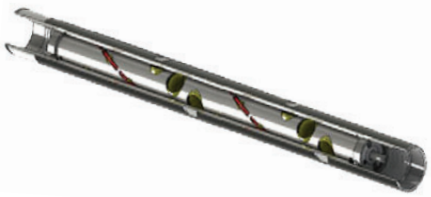
TCP Motor Cleanout System Reaches TD in Well Depth Record

Case Study No. 2504

DETAILS:

Location:	**Garvin County, OK**
Casing Size:	**5-1/2" | 23#**
Conveyance:	**2.375" Coiled Tubing**
Total Measured Depth:	**29,394'**
Well Orientation:	**Horizontal**
Fluid:	**Water**
Operation Type:	**Cleanout and TCP**
Tools Used:	**3.13" TCP Motor Cleanout System**
	3.50" Gun Carrier with 2.75" Gun
	3.13" WavForce XRV

HIGHLIGHTS



- Single Trip Solution
- WavForce XRV Utilized
- Proprietary Solution

RESULTS:

An Oklahoma operator had a toe-port that failed to open followed by an unsuccessful tractor run. Needing to perforate the casing to establish injection, Thru Tubing Solutions was contacted to utilize the 3.13" TCP Motor Cleanout System for a one-trip solution. Due to the lateral length and depth of the well, pre-job friction modeling was performed to verify that a 0.215 friction coefficient was required to reach PBTD with the 2-3/8" long-reach coil tubing string. The TTS' WavForce XRV was utilized to ensure reaching PBTD successfully.

Once tools were deployed, the TCP Motor Cleanout System successfully cleaned the well to PBTD at 29,394' with positive weight. A ball was then launched from surface to isolate flow to the motor and activate the two-stage firing head. After the required surface pressure was reached, six guns were fired creating 36 perforations and sufficient injection rate was achieved to pump down wireline and initiate completion of the well.

The operation was completed in 22 hours and post-job friction matching concluded that a 0.195 friction coefficient was actually achieved further proving the effectiveness of TTS' tools and capabilities.