Performance Summary

An operator named Sable Permian Resources, drilling in the Wolfcamp formation, continues to achieve success with Impulse Downhole Tools’ ActiPulse technology. In January 2019, the operator picked up two 6.5” ActiPulse Friction-Reduction Tools (FRTs) for their lateral run in 8.75” hole size. After running in hole at 8,702ft, the ActiPulse tools were strategically activated, one-by-one, as required. The ActiPulse tools remained active, effectively reducing friction until 22,193ft (TD). 13,491ft was continuously drilled, without a trip, in 106 hours – over 3000ft/day!

Tool Overview

6.5” HT ActiPulse Friction-Reduction Tools were used for this project. The tools offer high-torque double-shoulder thread connections throughout. A Positive Displacement Motor (PDM) Power Section turns the tool’s Rotating Valve. The Rotating Valve generates pressure pulses at a frequency of 6-11Hz. The pressure pulse provides a differential pressure that creates axial forces, moving the dual-acting Shock Tool and the adjacent drill pipe. The tools are in a passive mode until activated with a Drop Ball. Two tools were run in series, configured with different size Ball Seats – the lowest tool having the small Ball Seat, and the upper tool having the large Ball Seat.