# Cutting-edge HFTO dampener improves drilling performance, minimizes BHA damage in Permian

#### CHALLENGES

- · Excessive lateral and tangential vibrations experienced while drilling
- High-frequency tortional vibrations (HFTO) were leading to:
  - Excessive BHA damage and premature tool failures
  - Multiple, unplanned trips
  - Greater cost-per-foot and AFE spend
- Unproven 3<sup>rd</sup>-party tool with differential movement at high loads

#### SOLUTION

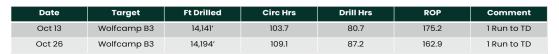
- · Application-specific setup incorporating a GuardVibe<sup>™</sup> high-frequency torsional oscillation dampener to address problematic downhole dysfunctions
- Robust BHA containing a 4¾-in. Lucida<sup>™</sup> advanced rotary steerable service
- High-strength threads (BHI-XT3)

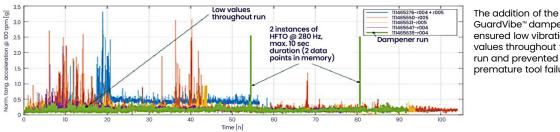
### RESULTS

ZERO HFTO impact on WOB and ROP

No restrictions in bending movement

Superior drilling efficiency and performance





GuardVibe<sup>™</sup> dampener ensured low vibration values throughout the run and prevented premature tool failure.

## bakerhughes.com

Copyright 2025 Baker Hughes Company. All rights reserved. 85780

