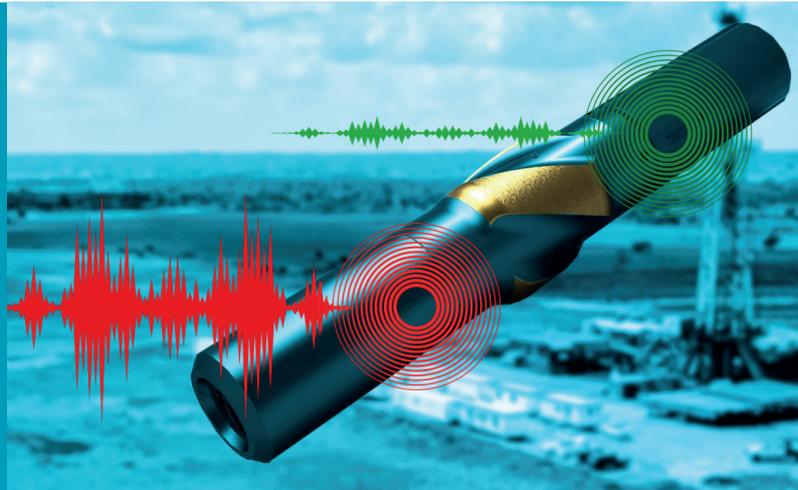


Expro Excellence

# HI TOOL® Harmonic Isolation Tool optimizes drilling of lateral wells in Permian Basin

Well Construction | Drilling Technologies



## Objectives and background

- A West Texas operator sought a solution to optimize drilling capabilities
- For this application, two wells utilized Expro's 800 series HI TOOL® Harmonic Isolation Tool. The tool was placed above the RSS and MWD LWD in order to protect these critical BHA components and support increased drilling parameters

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- By reducing wear, the HI TOOL® extends the life of BHA components. It also allows the entire face of the bit to stay more directly engaged with the rock which results in a higher ROP

## Value to the client

- The two wells utilizing the HI TOOL® were compared to two offset wells without any vibration mitigation strategies, with all wells operating within similar parameters. The wells with the HI TOOL® benefitted in multiple ways, including increased ROP, increased section length, reduced number of trips, and reduced time to complete the lateral sections
- Increased ROP by an average of 39%
- Increased section length by an average of 4200 ft.
- Reduced the average number of trips by 2.5
- Wells with the HI TOOL® completed the operation an average of 5 days sooner

### Safety



### Operational efficiency

