

Expro Excellence

HI TOOL® exceeds target and delivers record ROP whilst drilling a 6" lateral section

Coretrax | ADVANCE

Objectives and background

- A major Middle East operator aimed to drill an extended (6,341ft), 6" lateral in a single BHA run while maximizing ROP. Previous wells faced severe stick-slip, high vibration, and frequent RSS and M/LWD tool failures, causing inconsistent ROP and multiple unplanned trips-preventing the one mile per day target
- Achieving this goal required pushing drilling performance beyond historical limits while protecting BHA integrity and ensuring tool reliability in a sensitive drilling environment
- Expro was selected for its strong track record in drilling dynamics optimization. The engagement focused on stabilizing downhole behavior, reducing vibration related tool risk, and enabling a single run, high efficiency lateral

Expro Excellence

- Expro deployed the HI TOOL® within the RSS BHA to actively suppress torsional, lateral, and axial vibrations. Strategically placed at the top of the BHA, the tool isolated the bit, RSS, and MWD/LWD from disruptive drill string dynamics. This configuration enabled smoother torque transmission, enhanced bit efficiency, and greater stability under elevated RPM and WOB conditions
- With advanced drilling dynamics management, the operating parameter window was safely expanded. Expro expanded the safe operating window, delivering maximum energy at the bit while maintaining smooth, controlled drilling
- This approach allowed the operator to push performance further, reduce dysfunction risk, and drive consistent high ROP drilling across the long lateral interval

Value to the client

- Expro's HI TOOL® solution delivered significant operational and economic value, enabling the operator to achieve the highest performance levels recorded in their Middle East field
- By stabilizing drilling dynamics and unlocking higher ROP capability, the client was able to drill faster, safer, and with greater confidence in BHA reliability
- The ability to drill the entire 6" lateral in a single run eliminated the need for an additional BHA trip, reducing operational risk, minimizing NPT, and lowering overall well cost
- Overall, Expro enabled the client to surpass their one mile per day target, deliver record breaking performance, and establish a new benchmark for future wells



Reduction of rig time



Enhanced production



Cost saving

