

From Measurement to Action: Linking Real-Time Optimization to Production

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Kinleigh Fatheree is a completions manager at Seismos. Her presentation will be at 9:00 Central Time on Thursday, July 23, 2026. The topic is “From Measurement to Action: Linking Real-Time Optimization to Production.”

Abstract

Hydraulic fracturing diagnostics have traditionally been used to evaluate treatments after execution, limiting their impact on operational decisions. High-frequency surface pressure measurements are changing that paradigm by providing scalable, real-time insight into near-wellbore performance. A recent Midland Basin production study demonstrates that acoustically derived perforation efficiency is independently correlated with early-time oil production and influenced by controllable completion parameters. Building on those findings, the same measurements can be integrated into automated pumping workflows to guide stage-by-stage interventions that improve perforation efficiency, treatment consistency, and overall completion execution. Together, these studies illustrate the progression from scalable diagnostics to measurement-informed, closed-loop hydraulic fracturing.

Biography

Kinleigh Fatheree is a completions manager at Seismos, where she supports operators in applying noninvasive, real-time acoustic measurements to improve hydraulic fracturing execution and optimize stimulation. Her work focuses on using live subsurface measurements to evaluate perforation efficiency, cluster distribution, and treatment response during pumping. She previously worked in advanced fracture-treatment design and onsite implementation across multiple North American basins and has provided direct technical support for refracturing, well rescues, and fracture diagnostic services. She holds a BSc in petroleum engineering from The University of Oklahoma.