MAGLINK™

SHORT HOP SYSTEM | CASE STUDY

ULTRA-LONG LATERAL IN THE POWDER RIVER



ERDOSMILLER

THE PROBLEM

Telemetry Signal Erosion in Ultra-Long Laterals

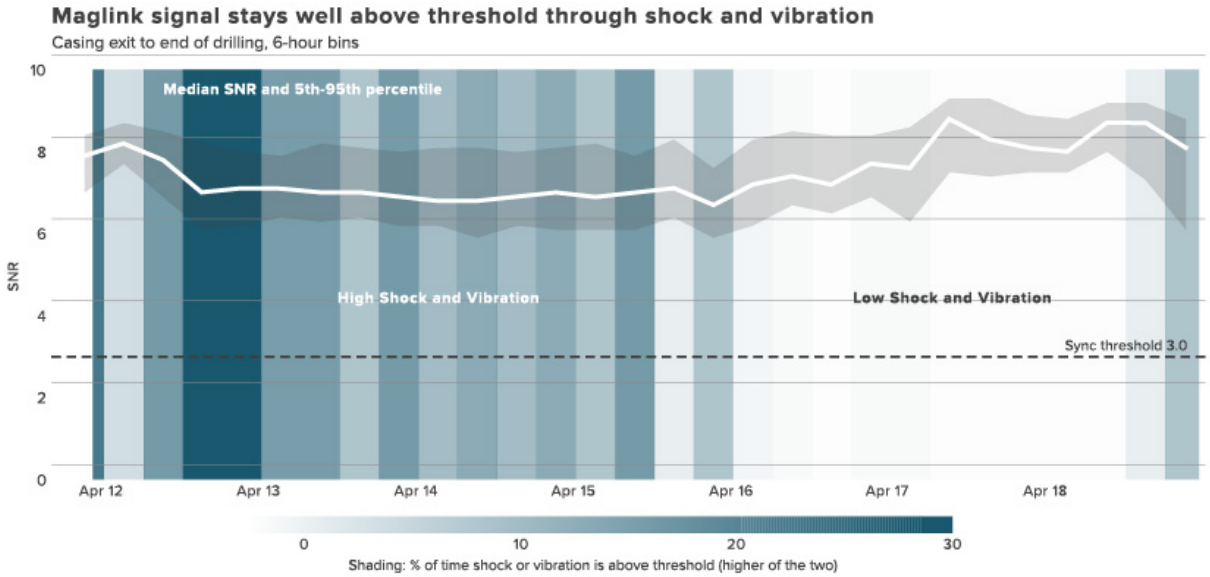
Historically, MWD data quality declined as drilling advanced through the lateral section. Obtaining accurate, timely directional data from the Rotary Steerable Systems (RSS) presented an even greater challenge. As operators continue to push the limits with ultra-long laterals, extended reach drilling, and u-turn wells, RSS are becoming increasingly important to accurately steer these wells. The need for reliable MWD is critical for successful RSS operations. Inclination and azimuth measurements from the MWD are essential for understanding the position and direction of the wellbore. In ultra-long laterals, even small deviations can accumulate over thousands of feet, potentially moving the wellbore outside the target zone. RSS technology relies on timely, accurate downhole data to maintain precise wellbore placement, optimize directional control, and support optimal drilling performance.

THE SOLUTION

MagLink: Communication Reliability Demonstrated in over 22,000-ft Lateral

The MagLink Short Hop System delivers critical RSS drilling data to the surface for increased directional control and RSS health monitoring. MagLink pairs with our proven technology from the MicroPulse to acquire critical RSS data and transmit it wirelessly to the MWD. This enables the directional driller to receive continuous access to inclination, azimuth, and RSS measurements throughout the run.

This well, drilled in the notoriously challenging Powder River, maintained 99.4% communication with the MWD and RSS allowing for a one-run curve and lateral of over 22,000 feet in 130 drilling hours.



THE COST OF A DEVIATION

Deviating from an ultra-long lateral or u-turn well plan can have costly consequences. In US land with an average day rate of $35k a minor correction running a few hours can result in significant costs, with major corrections over $100k, and sidetracks reaching over $1M.

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