

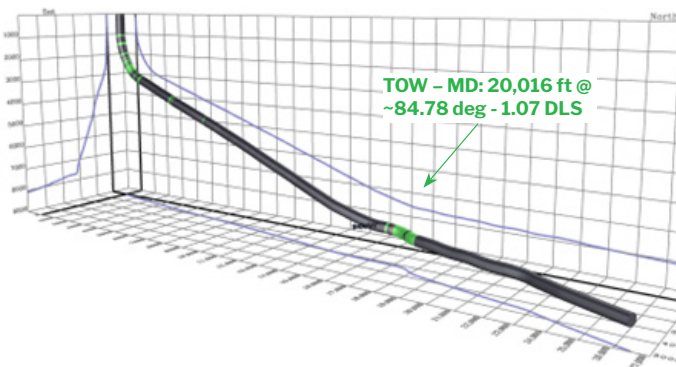
A Major Alaska Operator Succeeds with 7 inch TrackMaster Select™ Whipstock System in Challenging Lateral Section and Limited Setting Depth

Successfully executed the cased hole sidetrack application at 20,016 ft into the lateral, traveling 19,600 ft passed KOP and setting between perforations

Enhanced Re-entry Drilling Efficiency on the North Slope Through Definite Single-Trip Sidetracking Operations in Lateral Section

WIS collaborated with a major Alaska operator to execute a successful sidetrack operation from a 7 inch 26-pound casing application in a highly deviated well on the North Slope. WIS meticulously devised a comprehensive plan and execution strategy utilizing a 7 inch TrackMaster Select™ whipstock system to navigate through a challenging 70-degree tangent and into the lateral section, positioning the exit point at 20,016 feet MD. The TrackMaster whipstock assembly was accurately positioned between existing perforation zones, necessitating precise execution within a tight interval without room for movement. Anticipated losses were identified and monitored throughout the operation, with hydraulic simulation employed to determine optimal flow rates while mitigating the impact of partial losses. The expertise of the TrackMaster team was utilized to design the bottom hole assemblies with the assistance of Runner™ software for T&D simulation and milling road map optimization. Additionally, WhipSim® sidetrack evaluation verified wellbore trajectory and window geometry to ensure superior passage for subsequent BHAs.

The 7 inch TrackMaster Select system with hydraulic anchors enables smooth deployment into the wellbore, seamlessly passing through perforations as per the planned procedure. Subsequent orientation to the desired direction was accurately achieved using MWD, with pre-established high flow rates. The anchors then engaged the casing hydraulically as designed, without the need for a solid bottom. The 6½ inch tri-mill detached from the whipstock and efficiently milled the window and 20 feet of rathole in a single trip, facilitating directional BHAs and subsequent assemblies to travel through the window successfully. The TrackMaster Select cased hole sidetracking system achieved a high-quality sidetrack on the first attempt, outperforming alternative methods.



Location: North Slope, Alaska

Whip System Size: 7 inch TrackMaster

Casing Size: 7 inch 26# L80

Mill Size: 6½ inch FT Tri-Mill

Wellbore KOP: ~701 ft

Sidetrack Depth: 20,016' MD

Inclination @ Whipstock: 84.78°

CHALLENGE

Achieve a 7 inch cased hole lateral sidetrack using a TrackMaster Select Whipstock System, navigating through an extended tangent and lateral section. Set the whipstock amidst existing perforations in a narrow interval with partial losses, all accomplished in a single trip.

SOLUTION

- Choose the 7 inch TrackMaster Select cased hole modular whipstock equipped with the 6½ inch FT tri-mill system
- Utilize a hydraulic expandable anchor for autonomous activation
- Enable high pumping flow rates to facilitate MWD activation and circulation at any depth without triggering the anchoring system prematurely
- The WIS Red Baron TrackMaster team collaborated with a major Alaska operator to design and plan the sidetracking specifics using proprietary software

RESULT

- The 7 inch whipstock system was tripped into the hole, oriented to the desired trajectory, and successfully set in the lateral section between perforations
- The Fastrack tri-mill was detached from the whipstock and milled the window, providing a 20-foot rathole in a single trip