

Enhanced Operational Efficiency by Deploying Trackmaster* OH Whipstock Systems Strategically to Preserve Lateral Sections

Wellbore Integrity Solutions (WIS) executed a successful OH sidetrack 1,370 feet beyond a previous OH whipstock, preserving lateral footage with a whip-thru-whip maneuver.



Successful Dual Whipstock Deployment for Innovative Open Hole (OH) Sidetracking Operation for a major Delaware Basin operator.

After drilling 4,100 feet of lateral footage in a Delaware Basin well, the bottom hole assembly (BHA) became stuck and could not be retrieved, requiring a strategic response to protect the existing lateral progress. In collaboration with Wellbore Integrity Solutions' Red Baron team, the Delaware Basin customer developed an openhole sidetracking strategy. WIS meticulously planned and executed a $6\,^{1}\!/\!\!8$ inch OH TrackMaster lateral sidetrack at 14,480 feet MD. Upon resuming operations with the drill-ahead BHA, the customer faced another issue that required a secondary sidetrack, deeper than the initial whipstock placement, due to difficulties in retrieving the BHA. Despite WIS's extensive success with open-hole sidetracks using TrackMaster whipstocks in lateral sections, such scenarios pose increased challenges and risks. These circumstances required deploying a second whipstock beyond the initial sidetrack following an unforeseen deviation.

The 7 inch TrackMaster OH system with hydraulic anchors was smoothly tripped into the hole and passed through the whipstock as planned. After precise orientation using measurement while drilling (MWD), it was set at 15,847 ft MD, extending approximately 1,370 ft beyond the initial sidetrack depth. Upon activating the hydraulic anchor

and disengaging the shear sub from the whipstock, running tools were retrieved, and the directional BHA initiated the whipstock kickoff, enabling drilling operations to continue seamlessly. The TrackMaster open hole sidetracking system achieved a high-quality sidetrack on the first attempt, saving over **5 estimated days of rig time** by eliminating the need for plug back and re-drilling of lateral footage.

OPERATIONAL EFFICIENCY
ESG Reduced Safety Risk
Equivalent CO₂ Emissions:

750,060
MILES DRIVEN

293

METRIC TONS REDUCTION RECYCLED

TrackMaster Select™

- A HISTORY OF INNOVATION
- UNRIVALED EXPERIENCE
- GLOBAL PRESENCE

Location: Delaware Basin **Whip System Size:** 7 inch TrackMaster **OH Size:** 6½ inch Lateral **Sidetrack Depth:** 15,847 ft MD

DLS @ Whipstock: 2.2° /100 ft **Max Pass Through DLS:** 13.9° /100 ft **Inclination @ Whipstock:** 89°

CHALLENGE

Deliver a 61/8 inch OH lateral sidetrack with an OH Whipstock System, traversing a previously OH TrackMaster Whipstock deployed in the same lateral and preserve most of the drilled section above the unretrievable fish in the wellbore.

SOLUTION

- Select the 7 inch OH TrackMaster modular whipstock with shear sub system and hydraulic anchor.
- Shear sub system to allow slack-off weight to be applied without fatiguing shear bolt due to challenging OH wellbore conditions.
- Well specific recommendations while traversing second whipstock across the first whipstock face set in lateral to ensure flawless execution.

RESULTS

- Both whipstock systems preserved a total of 8,900 ft (95%) of lateral length.
- Reliable sidetracking method with a known kickoff point reduced time, cost, risk and uncertainty of alternative sidetracking methods.
- Impeccable planning and execution enable TrackMaster Systems to achieve groundbreaking results by deploying a second whipstock across a previously installed one in the open hole lateral section.

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