

# Sidetracking Efficiency in Colombia

Use of the TrackMaster Select\* System delivers a successful sidetrack in a high inclination and high dogleg severity (DLS) application.

## CHALLENGE

A customer required a sidetrack in 9<sup>5</sup>/<sub>8</sub> inch casing, at 68.2° degrees of inclination and a high DLS of 10.76°/100 ft at the whipstock system placement position.

## SOLUTION

WIS recommended the TrackMaster Select whipstock system, which was configured with a tri-mill to successfully mill the window and drill the 12 ft rat hole in a single trip.

## RESULT

- Successfully completed the window in 9<sup>5</sup>/<sub>8</sub> inch casing in one trip.
- A total of only 9 hours was required to mill the window and drill the rat hole.
- The used tri-mill was within the acceptable gauge diameter as per criteria after the run assuring a high-quality window.
- Subsequent gravel pack assemblies passed freely through the window to complete the well at Total Depth (TD).



## An optimized configuration, 9<sup>5</sup>/<sub>8</sub> inch TrackMaster Select system, with hydraulic anchor and tri-mill assembly was mobilized to complete a challenging sidetrack.

The Wellbore Integrity Solutions (WIS) team in Colombia answered a customer's request to plan and execute a challenging sidetrack, onshore in Colombia. During the planning process, it was identified that, due to setting depth constraints, the TrackMaster Select system had to be placed in an interval with a high DLS.

The key considerations during the planning process were identified as:

- An exit point at 5,734 ft, 45° left of high side
- A high DLS of 10.76°/100 ft for system placement
- An exit point wellbore inclination of 68.2°
- A smooth directional assembly pass through to drill the 8<sup>1</sup>/<sub>2</sub> inch OD hole section
- A requirement to also pass through a gravel pack assembly to complete the well

With experienced, local personnel, WIS planned and executed the operation efficiently and rapidly. The window was milled and the rathole drilled in a single trip, and in a total of 9 hours. On surface, the tri-mill configuration was checked and found to be within allowable specifications. Subsequent directional drilling assemblies and the gravel pack completion assembly all passed through the milled window freely.

