

Exceptional Sidetracking Performance Across Latin America with the TrackMaster Select™ System

Recent successes in Brazil and Mexico showcase the system's advanced capabilities

CHALLENGE

- Efficiently mill high-strength, heavy-wall casing strings
- Drill the rathole using the milling BHA in formations with high unconfined compressive strength (UCS)
- Ensure system reliability to complete the operation in a single trip
- Deliver a high-quality, usable window to facilitate the continuation of drilling operations

SOLUTION

The TrackMaster Select system was configured to meet the specific requirements of these challenging applications. Proprietary WhipSim technology was used during the planning process to simulate and predict the desired outcomes. The use of an integral-configuration tri-mill also helped ensure window quality, as well as rathole gauge diameter and length.

RESULT

- Demonstrated reliability by successfully completing the window and drilling the rathole in a single trip
- Reduced the time required to mill the window and drill the rathole, exceeding customer expectations
- Delivered a high-quality window that enabled subsequent directional drilling BHAs to pass through freely

Mexico

7-in. high-strength cased-hole sidetrack in a deep well with high unconfined compressive strength

An unexpected sidetrack around a fish in the wellbore required careful optimization and risk assessment. Key considerations included:

- A deep exit point at 6,449 m (21,158 ft) in a Cretaceous formation with a 35 ksi UCS.
- A heavy-wall, high-strength TAC-140 grade casing to be milled, with poor-quality cement behind it.
- A high DLS of 9.27°/30 m, followed by a 1.83° bend steerable motor BHA to slide-drill away from the window and drill ahead to a TD of 8,011 m (26,283 ft).

Thorough planning, combined with the use of proprietary WhipSim® technology and local expertise, delivered a high-quality window and rathole in a single run, with only 10 hours of milling and drilling time.

Brazil

Efficient, cost-saving solution to sidetrack 13⁵/₈-in. high-grade, heavy-wall casing in a medium-hard formation

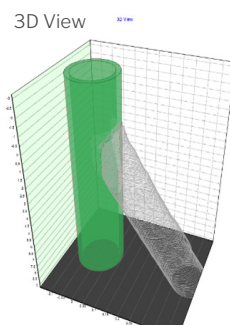
After experiencing numerous losses, the customer decided to sidetrack the well. A successful sidetrack would save 10,900 ft of previously drilled wellbore in a high-cost offshore operating environment.

WIS worked closely with the customer to plan the exit through 13⁵/₈-in. OD, 88.2-ppf, C-110 casing using the TrackMaster Select™ system with a hydraulic expandable anchor. Local knowledge and experience were leveraged to ensure operational risks were fully assessed and mitigated.

The outstanding performance achieved was recognized:

- The job was completed in a single run, saving approximately 30 hours of rig time.
- Mill performance exceeded customer expectations, with minimal gauge wear.
- Drilling operations then continued to target depth, achieving the original well objective.

Whipsim Simulation Output



Side and Front Views

