

# Outstanding Cased Hole Sidetracking Performance in Latin America with the TrackMaster Select

Recent operational successes in Brazil and Mexico highlight the advanced capabilities of the TrackMaster Select system.

## CHALLENGE

- Efficient milling of high strength and heavy wall casing strings
- The ability to drill the rathole with the milling BHA in high unconfined compressive strength formations
- Ensure 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 the specific requirements of these challenging applications. Proprietary Whipsim technology was used in the planning process to simulate and predict the desired results. The use of an Integral configuration tri-mill also ensured window quality, rathole gauge diameter and length.

## RESULTS

- Demonstrated reliability to successfully complete the window and drill the rathole in single trip
- The time to mill the window and drill the rathole was reduced and exceeded customer expectations
- A high-quality window was delivered with the subsequent directional drilling BHAs passing through freely.



### Location: Mexico

#### A 7 inch high strength cased hole sidetrack in a deep well with a high unconfined compressive strength (UCS).

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

- A deep exit point of 6,449 m (21,158 ft), in a cretaceous formation with 35 KPSI UCS
- A heavy wall, high strength, TAC140 grade casing to be milled with poor quality cement behind it
- High DLS, 9.27degrees/30 m, with a 1.83 bend steerable motor BHA to follow to slide drill away from the window and drill ahead to a TD of 8,011 m (26,283ft)

Thorough planning, the use of proprietary Whipsim technology and local experience combined to deliver a high quality window and rathole in one run with 10 hours milling and drilling time.

### Location: Brazil

#### An efficient, cost-saving solution to sidetrack a 13 5/8 inch high grade, heavy wall casing in a medium-hard formation.

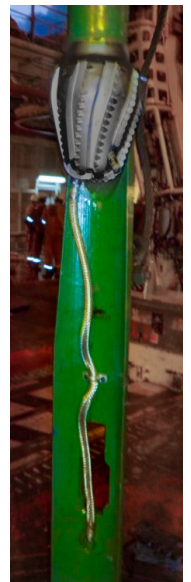
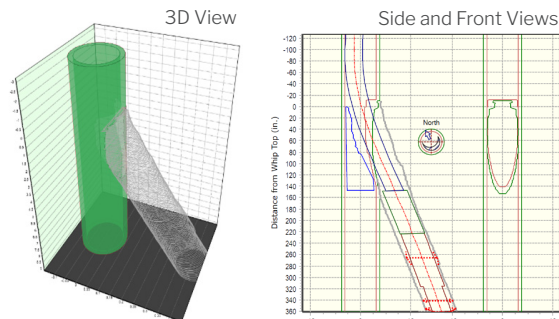
Facing numerous losses, a customer decided to sidetrack a well. A successful sidetrack would save 10,900 feet of previously drilled well bore in a high operating cost, offshore environment.

WIS worked closely with the customer to plan the 13 5/8 inch OD 88.2ppf, C-110 casing exit using the TrackMaster Select system with a hydraulic, expandable anchor. Local knowledge and experience was utilized to ensure that the operational risks were fully assessed and mitigated.

An outstanding performance was recognized:

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

### Whipsim Simulation Output



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- A HISTORY OF INNOVATION
- UNRIVALED EXPERIENCE
- GLOBAL PRESENCE

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