Wellbore Integrity SOLUTIONS

Successful Deployment of 9⅝ inch TrackMaster* CH Whipstock with Integral Tri-Mill for Uncemented Window Milling at ~5 deg/100ft DLS in Indonesia

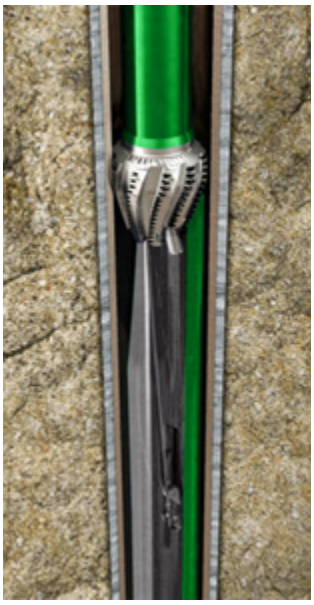
TrackMaster* CH with integral tri-mill achieves outstanding performance, milling a 9⅝ inch x 13⅜ inch uncemented window milled at ~5deg/100ft DLS in a single trip, saving ring time and cost.

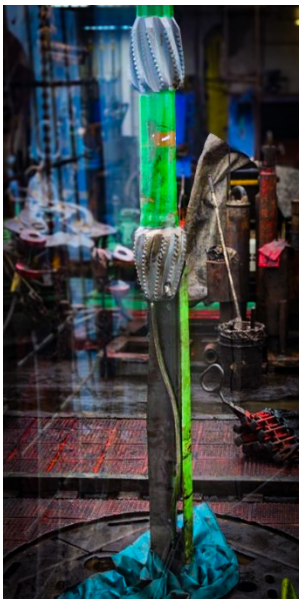
High Performance Results for PHE OSES Partnering with Wellbore Integrity Solutions (WIS)

WIS Indonesia supported PHE OSES in achieving a significant milestone with the successful completion of their first uncemented dual casing exit operation, set and exited at nearly 5°/100 ft DLS. This accomplishment underscores WIS as a trusted partner in whipstock operations. The 9⅝ inch TrackMaster CH Whipstock with integral tri-mill achieved a high-quality, full-gauge window in a single run, completing both window and rathole milling in a total of 5 hours. Executing an uncemented dual casing exit is particularly challenging in a high dogleg severity (DLS) setting. Addressing the customer's objectives for target depth and cost efficiency, WIS designed a single trip whipstock solution that maintained the window quality.

This operation, led by WIS Indonesia, delivered an exceptional performance under challenging conditions:

- Uncemented dual casing without centralizers and limited outer casing tally data
- High DLS of nearly 5°/100 ft at setting depth, with a 45° inclination





PHE OSES, in partnership with WIS Indonesia, achieved a significant milestone by completing the first dual casing exit (9⅝ inch x 13⅜ inch) in Indonesia, setting a new performance record at a challenging depth with single-run milling.

CHALLENGE

The customer required a sidetrack at a depth with a Dog Leg Severity (DLS) approaching 5°/100 feet to meet the trajectory required for one of the sidetrack well campaigns. Additionally, the 9⅝ inch x 13⅜ inch uncemented window had no centralizer and lacked outer casing tally information.

SOLUTION

A TrackMaster Select one-trip system with an integral tri-mill was proposed to the customer due to its proven capability to deliver outstanding results.

RESULTS

- The TrackMaster CH whipstock demonstrated exceptional performance when set at a challenging depth with nearly 5°/100 ft Dog Leg Severity (DLS) and a 45° inclination.
- The integral PDC mill's cutting structure delivered strong milling performance.
- Achieved a successful single-trip exit through dual uncemented casings (9⅝ inch x 13⅜ inch) with minimal well data.
- Completed dual casing exit milling time, in a single trip saving rig time and costs.
- Subsequent directional drilling bottom hole assemblies passed through the window smoothly without issues.

TrackMaster™ Select

- A HISTORY OF INNOVATION
- UNRIVALED EXPERIENCE
- GLOBAL PRESENCE