

First TrackMaster Select Whipstock Set for Dual Casing Exit Offshore in Azerbaijan

Wellbore Integrity Solutions (WIS) delivered a full-gauge window in a challenging environment.

Proper planning leads to flawless job execution.

Azerbaijan State Oil Company (SOCAR) was looking to perform the dual casing window exit through poorly cemented strings of 6 5/8 inch x 9 5/8 inch casings.

WIS proposed and planned the use of the TrackMaster Select* Cased Hole System for this challenging project. All well data, including CCL and CBL logs, were gathered and analyzed. Whipstock simulations were run in WhipSim* software to obtain the best setting depth and operating parameters.

Primary and backup TrackMaster Select systems were sourced and prepared to fulfill all operational needs. As a result of the collaborative work, the full-gauge window was completed in two runs. The first run took 3.5 hours to mill the window and 1.5 hours to drill a rathole. A second run was performed to dress the window and verify proper hole cleaning. After pulling out the hole with the drift BHA, all the mills were in-gauge. The subsequent BHA was run and drilled to total depth with no issues.

CHALLENGE

To mill a full-gauge window and drill rathole through 6 5/8 inch x 9 5/8 inch casings.

SOLUTION

- Use the TrackMaster Select* System for Cased Hole applications to achieve a high-quality window for passing the subsequent drilling BHA
- Adjust parameters to minimize shock and vibration while milling a window in poorly cemented casing strings
- WhipSim* software used for whipstock simulation to achieve optimal performance

RESULTS

- Successfully completed full-gauge dual casing window and drilled 5 m of rathole
- Subsequent drilling BHA passed the window and reached total depth with no issues
- Zero NPT
- The customer was very satisfied with the job performance



Left: Whipstock assembly just before the run in the hole. Middle: Tri-mill assembly for the drift run just before the run in the hole. Right: In-gauge mills after the drift run.



**TrackMaster
Select™**

- A HISTORY OF INNOVATION
- UNRIVALED EXPERIENCE
- GLOBAL PRESENCE

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