

Mexico's Deepest OH Sidetrack Achieved with 7 inch TrackMaster Select* Whipstock System

Wellbore Integrity Solutions (WIS) successfully planned and executed an open hole sidetrack at 7,789 m (25,554 ft) in a high unconfined compressive strength (UCS) formation.

Identifying and managing risk to deliver exceptional results.

WIS collaborated with a major Oil & Gas Operator in Mexico to execute a successful sidetrack operation, the deepest sidetrack operation registered in the country, by deploying a 7 inch TrackMaster Select Whipstock System customized with a Hard Formation Bi-Mill and an expandable anchor in an Open Hole section. WIS developed a detailed plan and execution strategy using the customizable TrackMaster System to meet specific requirements related to deep-well conditions caused by temperature and pressure.

The 7 inch whipstock was successfully set at 7,798 m even after the orientation tool presented some issues due to high temperature. Once the milling began, the Bi-Mill went through smoothly and with a constant pace to conform a high quality window in the high UCS formation. The window was milled from 7,789 m to 7,792.2 m with steady control of parameters to avoid any deviation in the results expected from the customer. The short rathole length of 0.4 m was planned to protect the mill due to the high torque. After, next BHA with a bit was run to drill a total of 47 m and extend the rathole length for the RSS pass-through.

This achievement underscores Wellbore Integrity Solutions as a trusted partner in deep-well sidetrack operations.

Location: Onshore, Mexico

Setting OH Section: 7 inch, high UCS

Setting Depth: 7798 m @ 0.24°/30 m

Inclination @ Whipstock: 3.6°

CHALLENGE

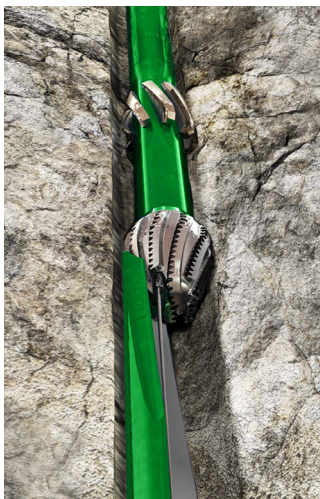
- Deploy a 7 inch TrackMaster Select Whipstock System to perform the deepest OH sidetrack operation in Mexico at 7789 m.
- High Unconfined Compressibility Strength (UCS) 17-27 and abrasive formation type.
- Window must provide low pass-through DLS for subsequent drilling BHA's.

SOLUTION

WIS recommended and deployed the TrackMaster Select Fastrack System configured with 5.625 inch OD bi-mill and a hydraulic expandable anchor. Due to the high UCS, the formation acts like a casing wall, providing a suitable anchoring surface.

RESULTS

- Delivered a high-quality window for smooth passage of subsequent directional BHA and completion string.
- 5.625 inch OD Bi-Mill dull grade remained within acceptable gauge loss criteria.
- A 3.2 m long window was drilled along with 0.4 m of rathole.



**TrackMaster
Select™**

- A HISTORY OF INNOVATION
- UNRIVALED EXPERIENCE
- GLOBAL PRESENCE



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