

TrackMaster Select System Successfully Deployed, Northern Territory, Australia

The WIS team in Australia mobilized a TrackMaster Select system at short notice to complete a hard formation sidetrack in a single trip.

CHALLENGE

A customer required the rapid mobilization of a 9⁵/₈ inch whipstock system to perform a casing exit from 9⁵/₈ inch P-110 casing at a depth of 1199 m. The exit was also characterized to be in a high formation compressive strength zone. After completion of window milling, a 3.3 m rathole was required to enable directional drilling to continue.

SOLUTION

A 9⁵/₈ inch TrackMaster Select whipstock with an 8¹/₂ inch OD tri-mill configuration was supplied to mill both the window and drill the rathole in a single trip.

RESULT

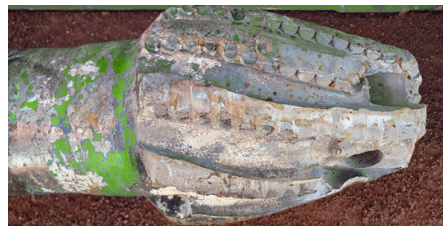
- Rapid mobilization from the WIS support base to the Northern Territory rig location was completed with on-time delivery.
- The TrackMaster Select was oriented and set, with window milled and rathole drilled in a single trip
- At surface, the tri-mill was within allowable gauge limits, despite the high compressive strength formation characteristics
- The subsequent 8¹/₂ inch directional assembly passed through window without issue, allowing the well to be drilled to TD.



Milling performance is highlighted in a high compressive strength formation sidetrack.

WIS mobilized TrackMaster Select equipment and experienced personnel to conduct an exploration well sidetrack in the Northern Territory, Australia. The system was set in 9⁵/₈ inch P-110 casing at a depth of 1199 m. The formation for the sidetrack was classified as medium-hard with a compressive strength of >13k psi. The system was oriented and hydraulically set at the desired depth. The milling and drilling time was 12 hours in total, for 4.7 m of casing and 3.3 m of formation. After reaching Total Depth (TD), the well was circulated clean, and the milling assembly recovered. The mill was determined to be in gauge and the subsequent directional drilling assembly was deployed and drilled the well to TD. It was notable that the mill gauge, and wear condition remained acceptable after a high compressive strength formation application such as this.

Used Mill Condition



Top right: Lead mill



Center: Follow mill



Bottom: Dress mill

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