

9 5/8 inch TrackMaster Elite* sets the benchmark in sidetracking precision at an offshore well in Qatar

Wellbore Integrity Solutions provides longer window and lower dogleg severity (DLS) achieves customer objectives without torque or drag.

CHALLENGE

The client in Qatar required a low dogleg severity (DLS) sidetrack across the whipstock through 9 $^5\!\!$ in. 40 ppf L-80 casing on one of their offshore wells that would enable them to drill the long horizontal section . High DLS across the window would limit the total depth (TD) of the horizontal section due to the high surface torque at TD thus reducing production from this well.

SOLUTION

Wellbore Integrity Solutions recommended the 9 5% in. TrackMaster Elite whipstock to sidetrack the wellbore, this technology would provide a longer window, 40% more than a standard TrackMaster whipstock, while providing a full gauge window avoiding multiple trips and clean out runs in the process.

RESULT

- The 9 5/8 in. 40 ppf L-80 casing was sidetracked in one run.
- The quad-mill assembly was within an acceptable gauge with the lead mill ¾6 in., follow mill ¾6 in., dress mill ¼8 in., and elite watermelon mill in gauge.
- Directional assembly passed the window without any obstructions.
- The horizontal section BHA drilled to TD at 22,000 ft without any torque limitations thus achieving the objective of the well design.



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successfully sidetracked the 9 5/8 inch 40 ppf L-80 casing in the lateral hole section.

The TrackMaster Flite extended window whilesteck system milled 22 125 ft of the section.

Wellbore Integrity Solutions, Qatar in collaboration with the client

The TrackMaster Elite extended window whipstock system milled 22.125 ft of window which is 40% more than a standard window and drilled the rat hole as per operator

requirements. This enabled the client to avoid multiple trips to elongate the window. 3D window profiling was achieved by the Whipsim analysis model. Excellent pre-job planning along with flawless execution of the operation ensured that sidetracking was achieved per the operators planned objectives for production. The Elite whipstock incorporates an improved lead mill with denser cutting structure, optimized design and upgraded cleaning feature, with additional nozzles.

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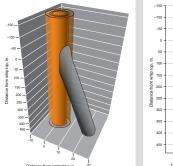


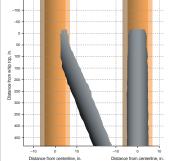
Mill head



Elongated whipstock

Quad-mill





Milling systems designed and modeled with the WhipSim software ensure smooth casing exits and help minimize kickoff DLS.



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