TrackMaster-OH Open Hole Whipstock System Solves Sidetracking Challenge in South Texas

After three failed attempts to sidetrack with cement plugs, the TrackMaster Open Hole (OH) whipstock with bi-mill provided a reliable and defined kick-off point in less than 20 hours.

CHALLENGE

A customer required a reliable solution to conduct an open hole sidetrack. Ten days of lost time had been experienced while attempting to sidetrack off cement plugs. Preservation of the drilling plan by providing a defined, accurate kick-off point was also important.

SOLUTION

WIS proposed and deployed the single trip TrackMaster-OH Whipstock system, utilizing a bi-mill configuration to create the window and drill the rathole. Experienced WIS field personnel were also mobilized to the well site to ensure a successful sidetrack operation.

RESULTS

- The TrackMaster-OH whipstock system was set, created the window, and drilled the rathole in a single trip.
- The total whipstock job time, from surface-to-surface, was completed in less than 20 hours. This equated to approximately 10% of the time spent on the previously unsuccessful sidetrack attempts from cement plugs.
- The customer then successfully continued to drill the wellbore trajectory to the desired target depth.

A reliable sidetracking solution after lost time spent on unsuccessful sidetracks from a cement plug

WIS in South Texas successfully planned and executed a TrackMaster-OH* whipstock job where challenges were encountered to sidetrack using conventional cement plug methods. After three unsuccessful attempts to kick-off cement plugs over a period of ten days, WIS successfully mobilized, deployed, and set a TrackMaster-OH whipstock system and drilled 19 ft of rathole in 20 hours. The customer was able to successfully recover the planned wellbore direction due to the whipstock's defined kick-off depth.

TrackMaster bi-mill opens 19 ft of full-gauge window and rathole in 4.3 hours

A bi-mill configuration with the TrackMaster-OH hydraulic whipstock was used to provide a reliable one-trip system, capable of setting the whipstock and milling the rathole in a single trip. The bi-mill, dressed with both PDC and tungsten carbide inserts, delivered a full-gauge rathole to TD. The subsequent directional drilling BHA passed through the whipstock window and successfully drilled the curve to the target depth.