



TRACKMASTER® OH

Openhole Whipstock
Sidetracking System

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Openhole whipstock sidetracking system

Applications

- Openhole sidetracking in medium-to-hard formations and formations with unconfined compressive strengths of up to 40,000 psi
- Accurately controlling kickoff depth and direction
- Landing laterals with tight TVD tolerances

Benefits

- Maximizes the chance of achieving a successful sidetrack on the first attempt
- Maximizes reservoir recovery with optimized horizontal lateral
- Eliminates time waiting for cement to cure
- Saves rig time by reducing interval drilling time
- Improves drilling efficiency by providing accurate control for precise kickoff depth and direction
- Optimizes position in the wellbore

Features

- Bit-friendly ramp that lowers bending stresses
- Elimination of packers for faster run-in speed
- Hydraulically set expandable anchor with triaxial steel slips that span multiple hole sizes and accurately set whipstock depth



Sidetrack the uncertainty of cement plugs. Drill ahead in one trip.

Hydraulically expandable anchor controls kickoff depth and orientation

An openhole sidetrack with a whipstock eliminates the time-consuming inefficiencies of traditional tools and methods. By setting a hydraulically expandable anchor, a whipstock system enables running, orienting, anchor setting to drill ahead in one trip.

Traditional tools and methods produce uncertainty and add extra rig time

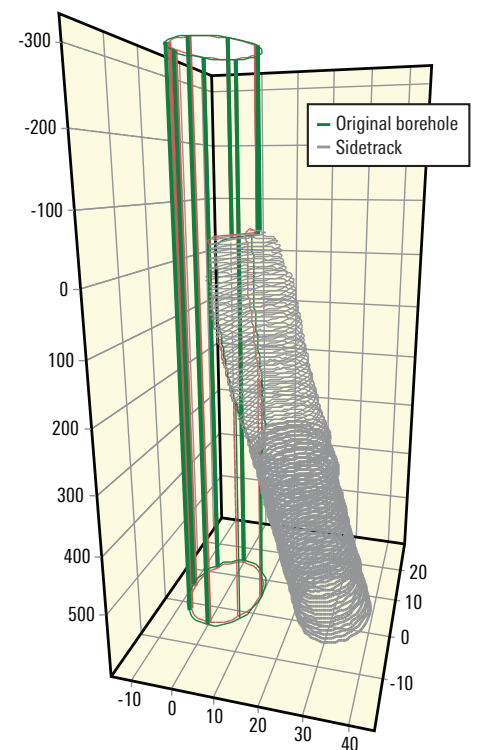
Traditional openhole sidetracking starts with a trip to set a cement plug, followed by nonproductive time waiting for the cement to cure, and then tripping back in with a drill bit to dress off the plug at the kickoff point. This process can take up to 24 hours before the actual sidetracking operation begins.

Prejob analyses match the technology with the application

For planned or unplanned event sidetracking where lower-zone isolation is not required, the TrackMaster OH openhole whipstock sidetracking system uses proprietary simulation modeling to match specific wellbore departure objectives, constraints, and physical characteristics.

WhipSim® whipstock simulation software provides a preview of the whipstock assembly's downhole behavior in a given application, helping ensure that subsequent drilling and completion strings are not affected by the dogleg across the whipstock. Trajectory, window geometry and mechanical bending stresses are evaluated in the simulation process to optimize operational performance.

Torque and drag drill string analysis also provides a complete sidetracking model to help analyze operational parameters, contact forces, buckling states, in addition to setting operations for anchors and shear bolt activation.



WhipSim whipstock simulation software helps ensure subsequent drilling and completion strings are not affected by the dogleg across the whipstock.

TrackMaster OH

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Designed to deliver single-trip sidetracking, the TrackMaster OH system eliminates the uncertainty of conventional cement plugs and maximizes the probability of a successful sidetrack on the first attempt. For planned or unplanned event sidetracking where lower-zone isolation is not required, the TrackMaster OH system can be matched to specific wellbore departure objectives, constraints, and physical characteristics.

Multiple running configurations for application-specific systems

Depending on the application, there are different running options that include different types of mills, such as FasTrack™ or Hard Formation, to match formation characteristics, drill ahead capabilities using a motorized BHA, and the utilization of shear subs on applications where high dogleg severity or poor open hole conditions are a concern.



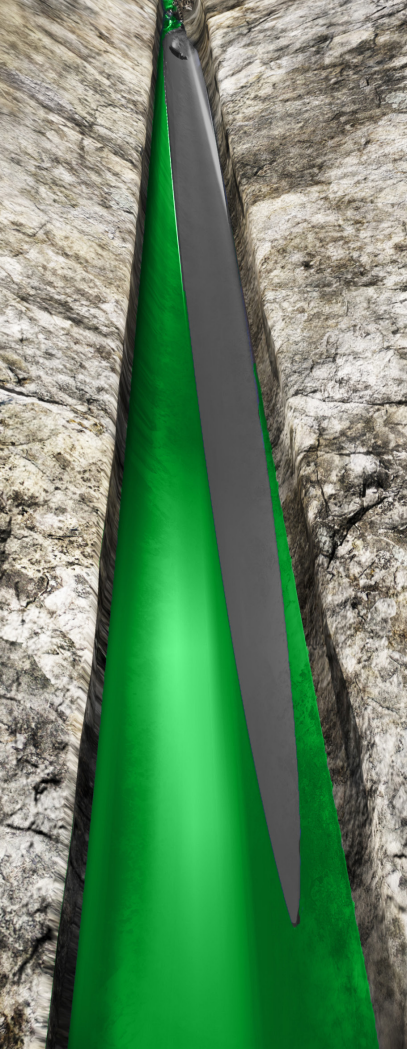
Bi-mill to whipstock



Shear-sub to whipstock



GeoTrack mill model to whipstock



Bit friendly ramp

Create a clean, smooth transition
A bit-friendly steel ramp eliminates the uncertainty of kicking off with a cement plug as well as the need for expensive repeat attempts. There is no waiting time for cement to cure, and the time–drilling interval is reduced. A clean, smooth transition is created for directional and horizontal applications.

Control kickoff depth and orientation with hydraulically expandable anchor
The TrackMaster OH system features a hydraulically set, expandable anchor and a steel ramp that provide a positive means of controlling kickoff depth and orientation. The expandable anchor can withstand temperatures up to 400 degF, and it is capable of maintaining a firm, three-point grip on the hole wall. The anchor has an internal lock to hold the system in place after setting. With no packer element, running in hole is faster, and the risk of damaging the anchor is minimized.



Triaxial expandable anchor

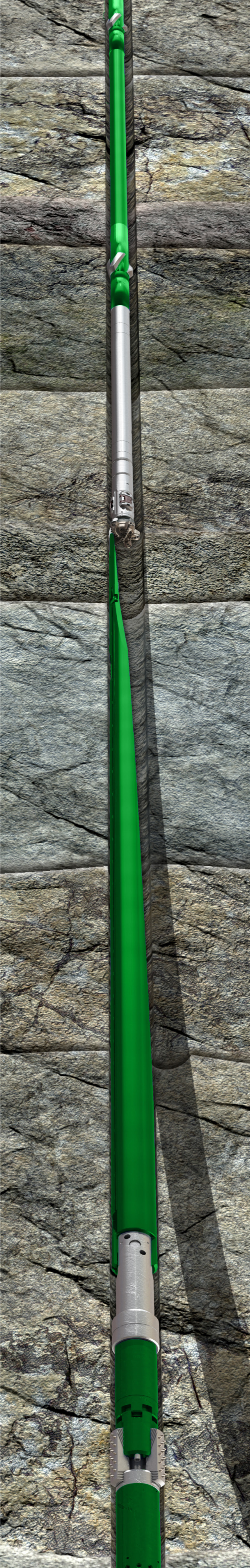
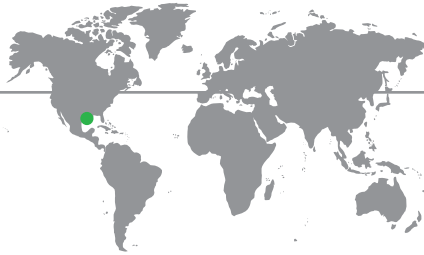
CASE STUDY

Deepest openhole whipstock record set in deepwater Gulf of Mexico at 31,513 ft

Sidetracking in mature, complex field enables directional drilling assemblies to reach planned target

An operator drilling in Keathley Canyon offshore Louisiana, USA, used TrackMaster OH system to drill a clean 8 ½ inch sidetrack, allowing subsequent directional drilling assemblies to regain the lost hole by drilling ahead to the planned target. The operation set a new world record for the deepest openhole whipstock at 31,513 ft.

Using modeling software and automated BHA profile programs to predict the departure path ensured that the drilling assembly could drill past the whipstock to build the required separation from the original borehole. An angle-building drilling assembly was used to drill across the whipstock and establish the rathole.





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