

# Open Hole Lateral Sidetrack Achieved with the TrackMaster Whipstock System on a Shear Sub

Successful execution an open hole sidetrack located 3,000 ft into a 6 $\frac{1}{8}$  inch lateral section with a WhipStock setting depth at 14,100' MD.

## Expertly executed solution for a lateral sidetrack.

Wellbore Integrity Solutions (WIS) successfully planned and executed a 6 $\frac{1}{8}$  inch OH lateral sidetrack with a customer in the Permian Basin. With a setting depth at 14,100 ft MD, the whipstock assembly needed to traverse across a 13.5 deg/100ft DLS in an open hole. Our team recommended conveyance with a shear sub instead of a traditional whipstock to bi-mill hookup to facilitate a successful operation. The whipstock top shoulders inside the shear sub allow slack-off weight to be applied without prematurely fatiguing the break bolt when working through tight spots. Therefore, the shear screw only experiences load with overpull (tension). The unique design features of the WIS TrackMaster system with shear sub were instrumental in getting the customer back to drilling for a successful OH lateral sidetrack around a fish.

The 7 inch TrackMaster OH system with hydraulic anchor was oriented to the desired direction using MWD and properly set at 14,100 ft MD. After activating the hydraulic anchor, the shear sub was released from the whipstock with applied overpull to remove the drill string from the wellbore to lay down running tools and pick up the directional BHA to kick off the whipstock and drill ahead. The TrackMaster open hole sidetracking system successfully delivered a high-quality sidetrack on the first attempt, providing significant savings in rig time. The risk and uncertainty of alternative sidetracking methods, such as kicking off a conventional elimination, were eliminated with a WIS TrackMaster whipstock.



**Location:** Permian Basin  
**Whip System Size:** 7 inch TrackMaster  
**OH Exit Size:** 6 $\frac{1}{8}$  inch Lateral  
**Sidetrack Depth:** 14,100 ft MD  
**DLS @ Whipstock:** 1° /100 ft  
**Max Pass Through DLS:** 13.5° /100 ft  
**Inclination @ Whipstock:** 90°

## CHALLENGE

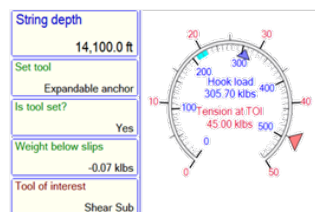
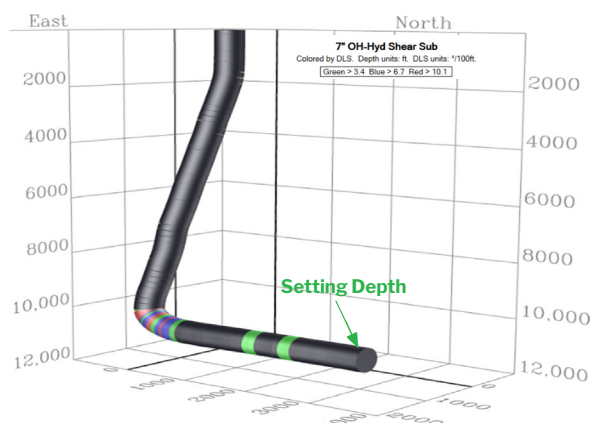
- Deliver a 6 $\frac{1}{8}$  inch OH lateral sidetrack with a 7 inch TrackMaster system due to irretrievable fish in the existing wellbore.

## SOLUTION

- Used the 7 inch TrackMaster OH system with hydraulic anchor was oriented to the desired direction.
- Whipstock assembly setting depth at 14,100 ft MD to transverse across a 13.5 deg/100ft DLS in an open hole well.
- Used a shear sub instead of a traditional whipstock to the bi-mill hookup to allow slack-off weight to be applied.

## RESULTS

- The TrackMaster system with the shear sub was key in achieving the OH lateral sidetrack around a previous irretrievable fish, reducing the risk and uncertainty of alternative sidetracking methods.



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