

WWT FlexShoe Guides 5-1/2in Liner Through Open Hole Sidetrack in Wyoming

Unique tool guides casing into low-side, open hole sidetrack regardless of orientation.

Well Basics:

- Low-side sidetrack drilled in horizontal open-hole section at approx. 14,500ft MD.
- TD of approx. 20,000ft MD
- Horizontal well with curve at 10,000ft MD at location of 9-5/8" shoe.
- 13deg/100ft max dog-leg in the curve.
- 8-3/4" Open Hole.
- 240°F Bottom Hole Temperature.

WWT FlexShoe Guides Liner into the Sidetrack on the First Attempt.

A sidetrack-configured WWT FlexShoe, model FLX-550 ST, was picked up and run at the bottom of the casing. This FlexShoe uses a small amount of weight at the end of the FlexShoe, deflecting the shoe down into a low-side sidetrack without the need to orient the casing while still maintain effectiveness as a guide shoe.

The WWT FlexShoe guided the 5-1/2" casing into the low-side sidetrack KOP on the first pass and without any noticeable drag. The casing then continued to TD without any problems.

WWT FlexShoe and Casing Floatation Equipment

The WWT FlexShoe worked well with the casing floatation equipment used on this well. Because the WWT FlexShoe can minimize loading when running past ledges and other downhole obstructions, it can reduce the need for working the string when rotation may take time and generate substantial torque, and circulation/washing casing down is not an option.



Location: Wyoming, USA
Well Type: Land, Horizontal Well
Objective: Run 5-1/2in casing into open hole sidetrack on the first attempt.
Solution: WWT FlexShoe ST
Results: Smooth, efficient casing run.



Image of the FLX-550 ST 'sidetrack' configuration, showing steel connection downhole of the composite FlexShoe.

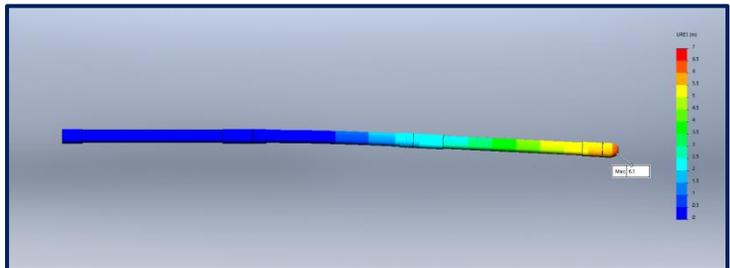


Image of FEA analysis showing approximately 6" downward deflection in a horizontal wellbore. This allows the shoe to locate and enter a low-side sidetrack regardless of casing orientation.