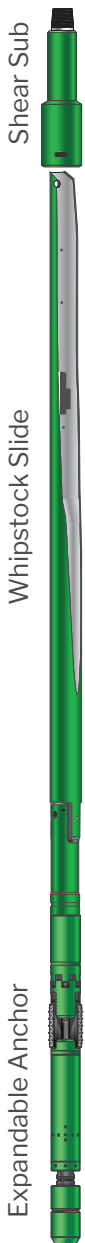


California's First TrackMaster* Select Extended Whipstock Successfully Sidetracks in High Angle and DLS Wellbore

Wellbore Integrity Solutions (WIS) successfully planned and executed a complicated angled window for the customer.



Identifying and Managing Risk to Deliver Exceptional Results

In preparation for efficiently sidetracking with the extended-length Elite Whipstock for the customer, WIS conducted a thorough risk assessment. The aim was to enhance customer satisfaction with the whipstock sidetracking by optimizing the following aspects:

- Prior to running the whipstock assembly, a specifically designed clean out assembly was run in order to gauge hole conditions properly
- A shear sub was utilized for increased push capacity to the setting depth through dogleg severity (DLS) up to 14 deg / 100 ft (shown below)
- The TrackMaster expandable anchor was selected to allow shearing with overpull at the shallow setting depth using a shear sub assembly (no requirement for buoyant weight to shear in the high angle hole)
- WIS downhole magnets were strategically placed above the whipstock; as a result, ~600 lbs of metal was captured using three downhole magnets (no additional swarf was noted on the surface)

A 23 ft window (9 hours) and 40 ft of rathole (6 hours) were delivered to the customer in a total of 15 hours using managed rate of penetration (ROP) (4.2 ft/hr average) with only 5 klbs maximum weight required for the 9.625 inch 36.0# K-55 casing. The subsequent motor and rotary steerable system (RSS) pass-through operations proceeded as planned with zero noted drag while passing through the window.



Location: California

Whip System Size: 9⁵/₈ inch TrackMaster Extended

KOP: 2,879 ft MD / 1,454 ft TVD

Max Pass Through DLS: 14° /100 ft

Inclination @ Whipstock: 73°

CHALLENGE

- Deploy extended length whipstock in high angle and DLS wellbore
- Maximize metal swarf capture downhole by using a wellbore clean-up magnet in a high angle wellbore
- Window must provide low pass-through DLS for liner and RSS assembly

SOLUTION

- Run the whipstock on a shear sub for increased push capacity in high angle and DLS
- Use hydraulic anchor to shear at shallow setting depth

RESULTS

- Sidetracking and milling went as planned
- No issues passing RSS or liner through extended window
- ~600 lbs metal swarf captured downhole during milling



TrackMaster Select™

- A HISTORY OF INNOVATION
- UNRIVALED EXPERIENCE
- GLOBAL PRESENCE

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