

AlphaST™ Openhole Sidetrack System Executes Operation in One Trip to Save 46 Hours of Rig Time

Objectives

- Perform a sidetrack operation in an openhole pilot well. Previous attempts to sidetrack off of cement using conventional methods failed and increased operational costs.

Our Approach

- The Weatherford re-entry services team met with the customer to determine the parameters for a successful sidetrack operation.
- The team recommended using the Weatherford AlphaST single-trip openhole cement and sidetrack system to set the whipstock, cement the open hole, and mill off in one trip.
- The team deployed the sidetrack system, which included the whipstock and the IPP® production packer.
- Next, the team oriented and set the whipstock at the kickoff point (KOP). At the same time, they ran 1,700 ft (518 m) of external upset end (EUE) tailpipe below the packer and pumped cement across the previously logged lower zones to fill the open hole and abandon the wellbore.
- The team then actuated the IPP packer to anchor the whipstock in place.
- With the whipstock anchored, the team sheared the full-gauge mills off to separate them from the concave. The sidetracking operation began at the KOP without waiting for the cement to cure.
- The proprietary twin-mill bottomhole assembly (BHA) created a rathole that helped initiate drilling the sidetrack. The mill facilitated a quick departure from the original wellbore.
- The team milled out at the KOP in less than 6 hours and tripped the system out of the hole. The customer was then able to begin directional drilling to reach the target.

Value to Customer

- The AlphaST single-trip openhole cement and sidetrack system pumped cement, set the whipstock anchor, and milled off in one trip, which saved 46 hours of rig time, valued at US \$200,000.

LOCATION
Wyoming, United States

FIELD
Wamsutter

WELL TYPE
Onshore, vertical, pilot

FORMATION
Siltstone

HOLE SIZE
8-3/4 in. (227 mm)

TUBING SIZE AND TYPE
2-7/8 in. EUE

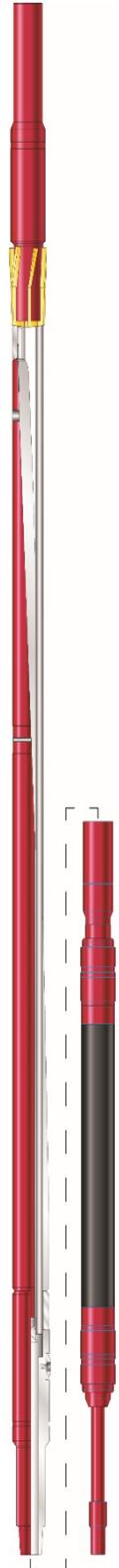
KICKOFF POINT
11,600 ft (3,535 m)

PRESSURE
30,000 psi (207 MPa)

PRODUCTS/SERVICES

- Re-entry services
- AlphaST single-trip openhole cement and sidetrack system
 - Twin-mill drilloff BHA
 - IPP production packer

The AlphaST single-trip openhole cement and sidetrack system enables operators to avoid the costs of setting a cement plug, waiting on cement, and timed drilling.




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