

AlphaST™ Openhole Sidetrack System

Enables Openhole Sidetrack and Drilling of New Wellbore in Less than 3 Hours

Objectives

- Perform an openhole sidetrack in a single trip from an 8-3/4 in. (221.9 mm) wellbore to bypass fish previously left in hole.
- Provide a clean transition from the main wellbore to the sidetrack bore, allowing the operator to immediately run the steering bottomhole assembly (BHA) following the sidetrack operation.

Our Approach

- Following the decision to bypass the unretrievable fish, the operator contacted Weatherford to explore fast and effective sidetrack solutions.
- Weatherford re-entry experts identified the AlphaST openhole sidetrack system with its next-generation, hydraulic slip-type anchor and AlphaST openhole drill bit as the best choice for its ability to perform the operation in a single trip.
- Weatherford Re-Entry Services quickly dispatched the AlphaST system and personnel to the rigsite. It was decided to forego the wellbore-preparation and caliper-log runs, then the AlphaST system was immediately deployed to target depth.
- Once installed, the sidetrack bore was drilled with the AlphaST openhole PDC drill bit. Upon completion, the bit and all mills were effectively determined to be in full gauge, allowing the operator to slide past the whipstock with a steerable BHA and commence drilling operations.

Value to Customer

- The AlphaST system with its hydraulic, slip-type anchor and PDC drill bit, enabled the operator to sidetrack from the main wellbore with single-trip efficiency and flexibility within unknown hole conditions.
- The AlphaST openhole drill bit successfully drilled 11.6 ft. (3.5 m) of concave and 13.4 ft. (4.1 m) of open hole in less than three hours.
- A full-gauge transition from the main wellbore to the sidetrack hole was achieved, allowing the operator to quickly resume drilling operations with the steerable BHA.



The AlphaST openhole drill bit attached to whipstock, ready to deploy downhole. The AlphaST single-trip openhole sidetrack system with hydraulic anchor, optional mechanical packer, and openhole drill bit helps operators avoid the costs of setting a cement plug, waiting on cement, and time-drilling.

LOCATION

Permian Basin

WELL TYPE

Onshore, Oil

FORMATION

Sandstone

HOLE SIZE

8-3/4 in. (221.9 mm)

HOLE ANGLE

Vertical

CASING TYPES/SIZES

9-5/8 in. (244.5 mm), 40#, L80

DEPTH

6,038 ft (1,840 m)

PRODUCTS/SERVICES

- Re-Entry Services
- AlphaST single-trip openhole sidetrack system

