AlphaST™

SINGLE-TRIP, OPENHOLE SIDETRACK SYSTEM

Cement, Anchor, Isolate, and Drill in One Run

The Weatherford AlphaST system delivers a fully modular, single-trip solution for openhole sidetracks—enabling lateral departures in challenging, highly compressive formations without relying on cement plugs or dedicated sidetrack BHAs. With its hydraulically actuated anchored whipstock, optional compression-set packer, and integrated flex mill with openhole PDC drill bit, AlphaST is the industry's only sidetrack solution that allows operators to cement, set, and drill-off in a single trip. This exclusive system maximizes reservoir exposure, reduces multiple-trip operations, and accelerates access to the payzone—delivering operational efficiency, flexibility, and faster time-to-production.

Integrated Cementing Capability

Precise Setting and Isolation

Efficient PDC-Bit Drilling

FIELD-PROVEN RESULTS - SAUDI ARABIA

Tripped
Whipstock Through Multiple Tight Spots

Drilled
25-ft Sidetrack in Single Run

Achieved
Full-Gauge Transition to Sidetrack Hole

Deployed
RSS Immediately after Kickoff

AlphaST™

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The Fastest Path to the Payzone

Reduce OPEX and Save Rigtime

Consolidate cementing, anchoring, isolating, and drilling into a single run to achieve faster payzone results—saving rig time, eliminating redundant operations, and ensuring greater efficiency and well integrity.

Single-Trip Sidetrack Design

Eliminate cement wait time, time-drilling, and multiple plug setting attempts to achieve a successful kickoff.

Enhanced PDC Drill Bit Coupled with Flex Mill

Power through highly compressive formations and facilitate quick departures from the original wellbore, eliminating the need for time-drilling beyond the whipstock.

Optional Mechanical/ Compression-Set Packer

Establish an isolation barrier for lower zone abandonment, letting drilling operations start immediately without waiting for cement, plug polishing, or time-drilling constraints.

Simplify and De-Risk Operations

Minimize the number of trips required to complete the openhole sidetrack—reducing potential for equipment failures, wellbore integrity issues, and redzone exposure—altogether leading to safer and more predictable operations.

Select Drill-Ahead BHA

Control the departure using target requirements, not sidetrack limitations, for greater precision than cement plug sidetracking, building confidence in drilling-assembly selection and well parameters.

Hydraulic Anchor

Secure the whipstock with two independent anchor-slip sections, providing six points of contact and simple balldrop functionality.

Controlled Departure

Gain absolute control of toolface direction and kickoff depth, outperforming cement plug sidetracking.

Optimize with Modular Flexibility

Streamline workflows with an integrated design that is configurable for specific sidetrack applications and wellbore conditions—creating highly efficient and predictable sidetrack planning and operations.

System Modularity

Run with or without a barrier packer and allows whipstock deployment via PDC bit, standard mill, or running tool—based on operator requirements and formation strength.

Optional Flowthrough-Cement Capabilities

Allow installation of cement abandonment plug—ensuring well integrity and all regulatory requirements.

Millable, Copper Flow Tube

Channel cement from bit to tailpipe through the whipstock concave, enabling quick and easy pumping below the whipstock.

Weatherford®

weatherford.com/alphast