

Shallow Angle QuickCut™ System with MultiCatch™ Anchor Achieve Industry's First Sidetrack From 12 1/4-in. Casing in One Trip

Objectives

- Sidetrack from 12 1/4-in. casing and enable a 9 7/8-in. drilling BHA and 8 5/8-in. casing string to pass the whipstock without issue.
- Maintain a low dogleg and smooth transition between the main bore and the sidetrack to facilitate the installation of production packers below the casing window.

Our Approach

- When other service companies failed to provide a timely solution for exiting 12 1/4-in. casing, a deepwater operator contacted Weatherford intervention experts to discuss sidetrack options. This would be the industry's first such sidetrack from 12 1/4-in. casing.
- After reviewing well parameters with the operator, the Weatherford team recommended a shallow-angle QuickCut system with MultiCatch anchor and 9 7/8-in. OD milling BHA. This rugged assembly would be able to exit heavy wall casing and leave a low dogleg window to accommodate future drilling and completion operations.
- To prove the viability of their concept, the Weatherford team ran the job in a test well, where they installed a window in 12 1/4-in. casing and drilled a low-angle rathole in two trips. Following their review of the test well sidetrack, the team concluded that they could complete future installations in a single trip.
- A Weatherford crew and equipment were subsequently dispatched to a drillship in the Gulf of Mexico. There, they achieved the industry's first 12 1/4-in. casing sidetrack installation after milling a 22-ft window and drilling a 15-ft rathole in one trip.
- The operator ran a 9 7/8-in. motor through the casing window and drilled to the next casing point using a 9 7/8-in. rotary steerable system then set 8 5/8-in. casing to complete this hole section.

Value to Customer

- The Weatherford crew completed the sidetrack operation in a single trip.
- The Weatherford sidetrack maintained a smooth, low-angle dogleg to facilitate subsequent installation of production packers and completion equipment beyond the casing window.



The lead mill is gauged before it is attached to the BHA.

LOCATION

Mississippi Canyon, US Gulf of Mexico

WELL TYPE

Ultradeepwater, development

FORMATION

Limestone

HOLE SIZE AND ANGLE

9-7/8 in., 22°

CASING SIZE AND TYPE

12 1/4-in., 134.25-lb/ft SM 130CY

LINER SIZE AND TYPE

8 5/8-in., 57.4 lb/ft

DEPTH OF KICKOFF POINT

22,700 ft (6,919 m)

PRODUCTS/SERVICES

- Shallow-angle QuickCut system
- MultiCatch anchor

