

QuickCut™ Whipstock System and Hydraulic MultiCatch™ Anchor Save Deepwater Operator Millions in Contingency Sidetrack Operation

Objectives

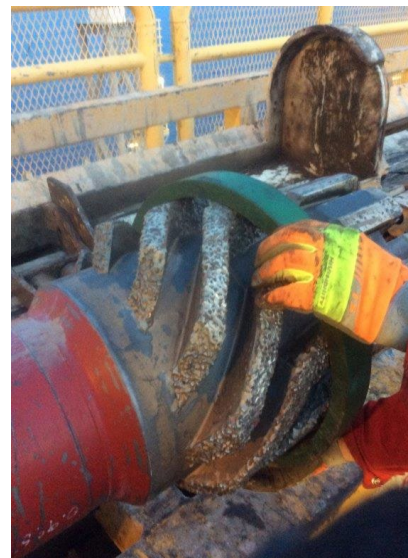
- Mill a window to provide a sidetrack around parted casing.
- Drill and maintain a consistent gauge throughout the rathole to permit subsequent passage of a drilling bottomhole assembly (BHA) without issue.

Our Approach

- When a deepwater operator encountered parted casing while drilling, they contacted Weatherford to provide a timely solution for sidetracking around the problem. After reviewing well parameters with the operator, the Weatherford team recommended the QuickCut whipstock system with hydraulic MultiCatch anchor and 14 3/4-in. OD milling BHA. In previous applications, this rugged BHA has proved to be a reliable off-the-shelf solution, and would require only minimal modification for use in the parted 18-in. casing.
- A Weatherford sidetracking crew mobilized to the drillship with a QuickCut system and MultiCatch anchor, along with lead and flex mills. After orienting and setting the anchor and whipstock, the driller milled a 23-ft window through the casing, then drilled an 85-ft rathole.
- Upon retrieval to surface, an inspection of the lead mill revealed minimal wear, and the flex mill was in gauge.
- The operator then ran a 14 3/4-in. rotary steerable system through the casing window, and continued drilling to the next casing point, then successfully ran 12 1/4-in. casing to TD, with no problems passing through the window.
- The entire operation was completed without any performance, safety or environmental issues, exceeding operator requirements and expectations.

Value to Customer

- The QuickCut system and MultiCatch anchor enabled the operator to mill a casing window through the 18-in. casing string, delivering a clean exit to facilitate resumption of directional drilling operations and reaching the target as planned.
- The Weatherford crew completed the sidetracking operation in just 3-1/2 days. This successful sidetrack enabled the operator to avoid fishing to retrieve the parted casing, then milling the 12-1/4 casing, followed by openhole sidetracking off cement. This scenario would have cost at least 10 days of deepwater rig time, valued at more than \$1 million per day.



A gauge ring (green) measures the mill diameter before and after running in the hole to confirm that the milled window and rathole meet specifications.

LOCATION

Mississippi Canyon, US Gulf of Mexico

WELL TYPE

Ultradeepwater, deviated, development

FORMATION

Limestone

HOLE SIZE AND ANGLE

14-3/4 in., 15°

CASING SIZE AND TYPE

18-in., 94-lb/ft SM Q125

LINER SIZE AND TYPE

12 1/4-in., 134.25 lb/ft SM130CY

DEPTH OF KICKOFF POINT

18,070 ft (5,508 m)

PRODUCTS/SERVICES

- Re-entry services
- QuickCut system
- MultiCatch anchor

