



Weatherford®

REAL RESULTS

Successful Sidetrack Through Hard Formation Saves BP America 25 Days

Objectives

- Run casing string to targeted depth. The drilling bottomhole assembly (BHA) was stuck and resisted fishing efforts, necessitating a sidetrack. The depth and hardness of the formation had foiled a previous attempt, in which a conventional cement plug and motor assembly were used. Another sidetrack solution was needed.

Results

- Weatherford installed a cement/screw-in type whipstock for the wellbore departure. The 13 1/2-in. OD system was anchored into place, using the stuck fish (at 15,854 ft, or 4,832 m) and cement. A conventional drill bit on collars was used to drill the cement plug to the top of the whipstock at 15,781 ft (4,810 m). Drilling down the whipstock face (16 ft [5 m] plus 4-ft [1.2-m] rat hole) was accomplished in 16-1/2 hr. The wellbore was successfully sidetracked to the next casing point.
- Casing was run through the window without incident, and the string was cemented into place.

Value to Client

- Successfully sidetracking through the high-compressive-strength formation avoided the need for a costly contingency plan that involved moving uphole several thousand feet to softer rock and sidetracking off a cement plug. Re-establishing the original depth with this contingency operation would have taken about 25 days.

This cement/screw-in type open-hole whipstock is designed for sidetracking around stuck pipe or fish, which are used to help anchor the whipstock.

4 1/2-in. IF box setting tool with 38,000-lb shear attachment screw

13 1/2-in. OD OHSI concave assembly profiled for 14 3/4- to 17 1/2-in. drill bit

Client
BP America

Location
Judge Digby field,
South Louisiana, USA

Well Type
Development

Cased Hole
17 7/8-in. casing set at
4,945 ft (1,507 m)

Open Hole
16 in.

Drilled Depth
15,950 ft (4,862 m)

Casing String
13 5/8-in. full string

Products/Services
Re-entry

6 5/8-in. Reg box overshot bushing

11 3/4-in. overshot bowl with 9 1/8-in. basket grapple

11 3/4-in. overshot bushing

11 3/4-in. overshot bowl with 9 1/8-in. basket grapple

