



Weatherford®

REAL RESULTS

Nodeco® Hanger System with Diamondback™ Reamer Shoe Allows Successful Sidetrack, Enables Well to Reach Total Depth

Objectives

- Sidetrack a well to overcome hole problems in the main bore caused by bridges and sloughing shales. A previous liner had been run but did not reach bottom because of problems passing through this section.

Results

- A Weatherford QuickCut™ whipstock was used to sidetrack from the 9 5/8-in. casing and drill down to the original zone of interest.
- After drilling, a 7-in. liner was run in the hole, using a full Nodeco rotating liner-hanger system. A Diamondback reamer shoe was used to assist the liner in reaching bottom. The liner was reamed and washed for 31 hr over the last 656 ft (200 m) to enable it to reach TD.
- The hole was then conditioned, and the liner was set. There were no problems releasing the running tool, pumping the cement job, or setting the packer.
- The hanger, ball seat, liner-wiper plug, and packer all sheared at the correct pressure values.

Value to Client

- Weatherford's complete solution enabled El Paso to reach TD and effectively isolate the shale section, allowing the well to be completed and tested.
- "I was very impressed with your reamer shoe," said Dean Pierce, El Paso Drilling Manager. "We could not have landed our casing without it."



The *Diamondback* reamer shoe is designed to overcome obstructions and guide the casing to TD. Unlike a standard guide or float shoe, the *Diamondback* shoe is equipped with an eccentric profile nose which through rotation can climb ledges and negotiate obstructions. In addition, its cutting structure can open previously drilled wellbores that would otherwise be impassable due to sloughing or swelling formations.

Client

El Paso Corporation

Location

Offshore Brazil

Well Type

Exploration

Hole Size

8-1/2 in.

Hole Angle

37°

Casing

7-in., 26/29-lb/ft buttress

Setting Depth

8,878 ft (2,706 m)

Run Length

2,861 ft (872 m)

Flow Rate

8 bpm

Products/Services

- Nodeco rotating liner-hanger system
- Diamondback reamer shoe
- QuickCut whipstock system