



Weatherford®

REAL RESULTS

Defyer® DPA Casing Bit Speeds Up Drillout of Composite Bridge Plug

Objectives

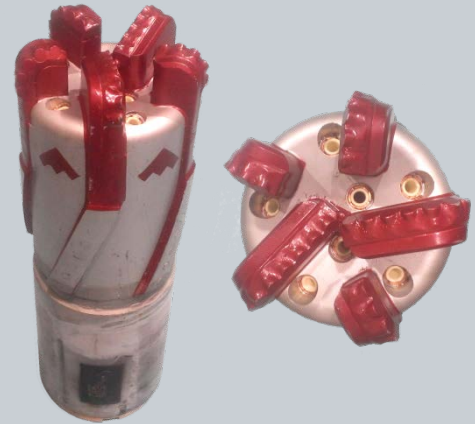
- In one trip, drill out a composite bridge plug (CBP), switch to pressurized mud cap drilling (PMCD), and set a 7-in. liner hanger in a lost-circulation zone.

Our Approach

- Weatherford recommended using a 7-in. Defyer DPA 5513 drillable casing bit to drill out the CBP.
- The drillout operation started with tagging the top of the CBP at 6,936 ft (2,114 m) measured depth (MD) while observing losses. The drilling team switched from conventional to PMCD mode with 12.8-lb/gal (1.5-kg/L) light annular mud injected below the rotating control device and continued to drill out the CBP to 7,028 ft (2,142 m) MD.
- The drillout operation took only 30 minutes, compared to more than 1 hour when using competitive products.
- The team ran in hole to 8,645.01 ft (2,635 m), reamed 3.28 ft (1 m), and then set and cemented the 7-in. liner at 8,648.29 ft (2,636 m)—all in one trip.

Value to Client

- The Defyer DPA 5513 drillable casing bit and P-Series liner-hanger system mitigated risk and drilled out the CBP twice as fast as costlier technology from another provider.
- The Weatherford technologies enabled the operator to drill out a CBP and successfully set and cement the liner in a lost-circulation zone in a single trip.



The Weatherford 7-in. x 8 1/2-in. Defyer® DPA 5513 casing bit was used to drillout a 9 5/8-in. composite bridge plug.

Location

Sarawak, Malaysia

Well Type

Offshore, exploratory

Hole Size

8-1/2 in.

Liner Type and Size

7-in., 29-lb/ft VAM TOP® HT

Drillout Parameters

- Weight on bit: 3 to 5 tons (2,722 to 4,536 kg)
- Flow rate: 100 gal/min (379 L/min)
- RPM: 50
- Pressure: 400 to 450 psi (2.8 to 3.1 MPa)

Products/Services

- 7-in. x 8 1/2-in. OD Defyer DPA 5513
- P-series hydraulic rotating liner-hanger system, integral packer, and mechanical ball seat

VAM TOP is a registered trademark of Vallourec Mannesmann Oil & Gas France Corporation.