Case Study

Expandables Optimize Deepwater Well Design

Challenge

This was the first post-Macondo GOM deepwater exploration well to receive a permit to continue drilling using subsea BOP’s. The Operator needed to achieve zonal isolation across shallow hydrocarbon-bearing sands below the 16 in. casing shoe while providing an additional and proven mechanical barrier above these sands. To improve quality of the cement job of the well’s 9-7/8 in. production liner, ECDs during the cementing operations needed to be reduced.

Added Value

The SET® system provided zonal isolation and a second barrier above the shallow hydrocarbon-bearing sands and allowed conditions for running the 13-3/8 x 13-5/8 in. casing string. The production casing being run as a liner with a tie back, facilitated lower ECDs during the production liner’s cementing, with 100% returns creating favorable conditions for proper isolation of the productive sands and prevented possible remedial cementing work. Operator reached 60 ft. of oil pay in high quality Miocene reservoir.

► Completion Date: May 2011
► Location: Deepwater, Gulf of Mexico
► Field: Mississippi Canyon
► Well Type: Subsea Exploration
► Base Casing: 16 in. (97 lb/ft)
► Solution: 13-3/8 in. OHL
► Depth: 13,916 ft.
► Liner Length: 2,278 ft.

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