



Weatherford®

REAL RESULTS

MetalSkin® Monobore Openhole Liner System Isolates Severe Losses in HPHT Development Well

Objectives

- Install a 14 1/2-in. tieback shoe assembly on a 13 5/8-in. casing string to allow a casing extension with a MetalSkin monobore openhole liner (MMOL) system. If severe losses are encountered when drilling the open hole, the tieback shoe will facilitate the running of the MMOL system.
- Deploy the MMOL system to isolate the loss zone and prevent slimming of the well to allow drillout with a 12 1/4-in. drilling assembly.

Results

- A 14 1/2-in. MetalSkin tieback shoe was deployed on the intermediate casing string and successfully cemented in place. The casing was tested to 4,000 psi and the mud weight was increased to 17.0 lb/gal before beginning to drill the 12 1/4-in. hole section.
- Severe losses were encountered in the 12 1/4-in. section. Drilling continued through the loss zone and the section was under-reamed to 14-1/2 in.
- The Weatherford MMOL system was run to a total depth of 10,488 ft (3,197 m) at 1 m/min to prevent further losses. Cement displacement and liner expansion operations were conducted successfully with a pressure-test of 500 psi to confirm seal integrity at the liner overlap.
- The monobore system was milled out and the 12 1/4-in. open hole was extended and cased with a 10-in. x 13-5/8 in. liner.

Value to Client

- The Weatherford MMOL tieback shoe allowed the client to install the 11 3/4-in. contingency expandable liner system when losses were encountered while drilling the 12 1/4-in. open hole.
- The installation of the Weatherford MMOL system allowed the client to isolate the lost circulation zone and continue drilling the 12 1/4-in. open hole. The system provided sufficient annular bypass for cementing the 10-in. liner at planned depth without incurring further losses.



The Weatherford MMOL system was successfully run as a contingency solution in an offshore well in Vietnam. The deployment of the Weatherford MMOL tieback shoe enabled installing the liner when severe losses were encountered during drilling.

Location
Vietnam

Well Type
Offshore

Formation
Sandstone/Claystone

Parent Casing
13 5/8-in., 88.5 lb/ft, Q125, TSH 523

Expandable Liner
11 3/4-in., 71 lb/ft, VM50

Tieback Shoe
14 1/2-in., 65 lb/ft, P-110

Products/Services

- MMOL expansion system
- MMOL tieback shoe
- Expandable centralizer subs

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