



Weatherford®

REAL RESULTS

Homco® Casing Patches Isolate Highly Permeable, Underbalanced Reservoir, Enable Installation of Cemented Secondary Liner

Objectives

- Permanently shut off a water-producing zone in a fragile, unstable reservoir. A previous attempt to isolate the zone with a straddle packer had failed.

Results

- Using a casing brush, scraper, and mills, Weatherford fishing services thoroughly cleaned and prepared the 7-in. casing string for casing remediation.
- In preparing the casing string, the Weatherford team discovered a second water-producing interval.
- Weatherford provided the operator two Homco casing patches: one to cover a water-producing interval between the depths of 6,083 ft (1,854 m) and 6,109 ft (1,862 m) and a second to cover a water-producing interval between the depths of 5,903 ft (1,799 m) and 5,933 ft (1,808 m).
- The expandable casing patches were successfully run to setting depth and expanded, safely isolating both intervals of the unstable reservoir.
- The secondary liner was installed and cemented without losses or formation damage.

Value to Client

- The efficient cleanout prepared the well for immediate remedial operations.
- The Weatherford Homco casing patches enabled the operator to successfully isolate the water-producing intervals quickly without jeopardizing the unstable formation.
- The installation of the Homco casing patches proved to be a reliable and safe casing-remediation solution that enabled installing a secondary liner and cementing without losses.
- All operations were conducted without lost time incidents.



Two Weatherford Homco casing patches were run in an onshore, oil producing well in an unstable reservoir to isolate two separate water-producing intervals. The casing patches stabilized the formation and enabled installing a secondary liner and cementing without formation damage or cement loss. Well integrity and production were successfully and safely restored.

Location

Bergedorf, Germany

Well Type

Onshore, oil producing

Field

Kirchwerder

Total Well Depth

7,309 ft (2,228 m)

Casing Type and Size

7-in., 26 lb/ft, 1010 mild steel

Setting Tool Type and Size

3 1/2-in., IF box

First Run

Casing Patch Length: 26 ft (8 m)

Setting Depth: 6,109 ft (1,862 m)

Second Run

Casing Patch Length: 39 ft (12 m)

Setting Depth: 5,933 ft (1,808 m)

Products/Services

- Fishing services
 - Watermelon mills
 - Taper mill
 - Casing
- Homco casing patches

Weatherford
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