



Weatherford®

REAL RESULTS

Canada: HOMCO® Casing Patch Isolates Three Perforated Intervals Within 15 Hours With Minimal ID Reduction

Objectives

- Permanently isolate three perforated zones in a steam injector well. The injector increased downhole temperatures by +/- 200°F (93°C) in comparison to the original bottomhole temperatures prior to injecting.
- Maintain respective inside diameters (IDs) while withstanding varying changes in bottomhole temperatures.

Results

- Weatherford deployed three HOMCO lead steel patches within a 5 1/2-in., 17.0-lb/ft (25.3-kg/m) liner.
 - A 25-ft (7.62-m) patch was set from 4,068 to 4,093 ft (1240.2 to 1247.8 m)
 - A 55.1-ft (16.8-m) patch was set from 3,084 to 3,130 ft (940.1 to 956.9 m)
 - A 20-ft (6.1-m) patch was set from 2,224 to 2,244 ft (677.9 to 684.1 m)
- All three provided 6.8 ft (2.1 m) overlap on either side of the perforation.
- Due to a high bottomhole temperature of 360°F (183°C), Viton® elastomeric seals were used in the setting tool.
- The total operational time to run the three patches in the wellbore, expand each, and then pull out of the hole was 14-1/2 hours.

Value to Client

- Using Weatherford's HOMCO casing patches enabled the operator to permanently seal three separate perforated intervals within 15 hours.
- The post-expansion ID of 4.592 in. and the drift of 4.476 in. resulted in minimal loss of ID, maintained the injection rates, and prevented choking the well.
- The HOMCO casing patches were run in one trip and required no additional shoe drillout, saving rig time and operational costs.

Weatherford's versatile HOMCO casing patch is designed to seal perforations, collar and thread leaks, splits, and limited corroded areas in tubing and casing. In addition, the HOMCO patch provides added protection during squeeze jobs, and is effective at any depth.



Location

Cold Lake, Canada

Well Type

Onshore, oil

Parent Casing

5 1/2-in., 17.0-lb/ft (25.3-kg/m)

Patch Lengths

Products/Services

- 5-ft (7.62-m) patch set from 4,068 to 4,093 ft (1240.2 to 1247.8 m)
- 55.1-ft (16.8-m) patch set from 3,084 to 3,130 ft (940.1 to 956.9 m)
- 20-ft (6.1-m) patch set from 2,224 to 2,244 ft (677.9 to 684.1 m)

Products/Services

HOMCO casing patch

Weatherford
Andrew Fisher
FRS Product Line Manager
andrew.fisher@ca.weatherford.com

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