



Weatherford®

REAL RESULTS

Lead Seal Casing Patch Repairs Damaged Casing, Preserves Steam Injection Well, Eliminates Need to Drill Second Well

Objectives

- Provide a solution to save a well for steam injection after 9 5/8-in. casing lost integrity.

Results

- Weatherford deployed a multistring cutter to cut the damaged part of the 9-5/8 in., 47-ft/lb (70-kg/m) buttress thread coupling (BTC) casing at 180 ft (54.8 m). The cut was dressed using a casing dress mill.
- When the top of the casing was in a good condition, Weatherford ran and set a lead seal casing patch in the wellbore.
- The lead patch was successfully installed despite the 350°F (176°C) wellbore temperature.
- A pressure test was conducted after the job, showing a good seal.

Value to Client

- Using Weatherford's drilling services and a lead seal casing patch enabled the operator to re-establish casing integrity in a steam injection well and continued the operation with minimal impact on the production.
- The operator saved substantial rig time and associated costs by eliminating the need to drill another well at 4,000 ft (1219 m).

The lead seal casing patch is an external catch tool designed to engage a previously prepared fish, pack it off permanently and become a part of the repaired casing or tubing.



Location
Oman

Well Type
Onshore, steam injection

Casing
9-5/8 in., 47-ft/lb (70-kg/m) BTC

Depth
180 ft (54.8 m)

Products/Services

- Drilling services
- Lead seal casing patch
- Multistring cutter
- Taper mill
- Bumper sub
- Fishing jar

Weatherford
Drilling Services
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