



ReLine Prime

Saudi Aramco – Repairing Corroded Casing in an Injection Well

PROBLEM

After reviewing corrosion logs of this vertical injection well, a significant anomaly was observed indicating up to 57% metal loss at 7,005 ft across a 4-1/2" liner. In anticipation of further corrosion, it was necessary to isolate this section of casing.

SOLUTION

- Coretrax's premium cased hole patch system ReLine Prime was selected to cover and mechanically isolate the corroded interval.
- Coretrax was allowed 3 days to prepare and implement a solution.
- Premium expandable connections allow the expandable patch to be assembled as long or as short as required.
- The ReLine Prime system has been pressure tested and is capable of withstanding pressures of over 10,000psi.
- The expandable liner used with the ReLine Prime system has been tested under NACE protocol and is H2S resistant.
- The ReLine Prime system utilizes a unique running tool that eliminates the need for a conventional aluminum shoe on the bottom of the patch.

RESULTS

- The expandable patch was successfully deployed and expanded in one trip with no shoe drill out.
- All significant corrosion was mechanically isolated under the ReLine Prime expandable liner.
- A large expanded patch ID of 3.416" was achieved by expanding both the pipe body and connections allowing for a packer to be set inside or below the patch.

PROJECT DETAILS

Location: Saudi Arabia
Date: May 2016
Well Measured Depth: 7,430 ft
Deviation: 0°
Temperature: 235° F

Casing: 4-1/2 in. 11.60 lb/ft
Patch Length: 300 ft
Installed Patch ID: 3.416 in.
Top of Patch: 6,794 ft
Bottom of Patch: 6,794 ft

7 in. Casing
to surface

4-1/2 in.
Liner Hanger
6,776 ft

Top of
ReLine Prime
6,794 ft

Bottom of
ReLine Prime
7,094 ft

Bottom of
4-1/2 in. Liner
7,139 ft

