

PRODUCTION ENHANCEMENT**CASE STUDY****OVERVIEW**

Location: Middle East
Date: November 2021

Planned to isolate corroded casing at 5,573ft with X-Span System PAT-9625-0470-1001, 9-5/8" 47# (40ft).

Patch set successfully with 4-3/4" Hydraulic Setting Tool, however incorrect correlation from 3rd party resulted in patch set off target depth leaving 3ft corroded zone exposed.

SOLUTION

Fishing operations included milling 12 inches off the top of the patch assembly, which was completed in 2hrs then engaging the assembly with a spear and removal of the extensions. The bottom element was also milled in 2hrs to remove the entire system.

Re-Deploy a replacement 80ft patch system set across problematic zone.

RESULT

Successfully deployed & set patch assembly at the correct depth.

Provided an economical solution to restore well integrity by isolating the corroded casing with a large thru-bore ID for production & future intervention.

Retrospective – Designed to be permanent but can easily be removed if required.

CHALLENGES:

- Initial patch installation incorrectly correlated, set off depth.
- Remove 40ft patch prior to installing 80ft patch system.

SOLUTION:

- Provide technical proposal/procedure to remove existing patch assembly.
- Deploy and set 9.625", 47# patch assembly (80ft) isolating corroded zone.

RESULTS:

- Patch successfully removed.
- New assembly installed.
- Casing integrity restored.

