

Middle East

Pressure test verifies casing integrity of RTTS® packer at maximum rating

Successful operation highlights tool's robustness and reliability

CHALLENGE

Provide reliable retrievable packer to perform high-pressure test to 7,500 psi to confirm integrity of shallow casing transition crossover

- Operator requested pressure test at maximum pressure rating of RTTS® packer

SOLUTION

- Deploy 9 5/8-in. RTTS® packer (58.4-lb/ft) and SSC valve with 7,500-psi rating

RESULT

- Executed successful pressure test on TCA to 7,500 psi for 30 minutes
- Validated casing transition crossover integrity
- POOH RTTS® packer in good condition

Overview

A major operator in Middle East often deploys RTTS® packers for casing integrity tests in both oil and gas wells. However, the operator requested a critical pressure test for a high-profile, offshore gas well to confirm the integrity of 10 3/4- × 9 5/8-in. tapered intermediate casing recently installed. The operator's specific concern was the integrity for crossover between the two casing sizes. Standards require a reliable 9 5/8-in. packer to withstand a 7,500-psi pressure test for 30 minutes.

Challenge

It is common for operations performed in Middle East to require a maximum pressure test between 1,000 and 3,000 psi. However, this well was in a field with special requirements of a high-pressure test in the TCA up to 7,500 psi. At this point, there was not an extensive run history with a 9 5/8-in. RTTS packer deployed for casing tests to 7,500 psi, which is the maximum pressure rating of the packer.

Solution

Halliburton proposed to set a 9 5/8-in. RTTS packer with an SSC valve below the crossover connection at 1,200 ft (107°F). To test the crossover, pressure in the TCA was increased in stages of 500-psi increments to the maximum rated pressure of 7,500 psi to validate the crossover.

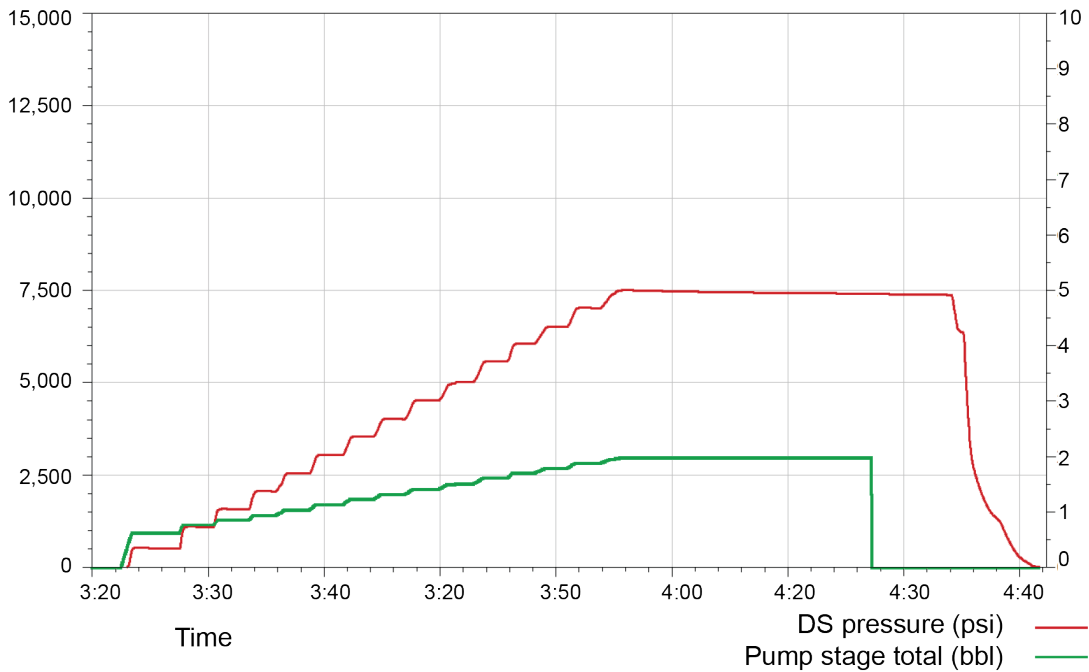


Rubber elements of RTTS® packer in good condition post-job.

Result

Halliburton met the operator's objective with a 30-minute pressure test at the maximum pressure rating. The RTTS® packer was then pulled out of hole (POOH) in great condition, which emphasizes the reliability and robustness of this tool at maximum rating without issue.

Pressure test 10 3/4-in. casing cross-over



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