

SPECTRUM® Diagnostics Identify Two Leaks in a Single-Trip Survey

SPECTRUM® REAL-TIME COIL TUBING SERVICES MINIMIZE DOWNTIME AND PRODUCTION DISRUPTION WITH FIBER-OPTIC TECHNOLOGY

UNITED STATES

CHALLENGES

- » Find the location of potential leaks causing production decline
- » Engineer a remedial solution based on accurate downhole data

SOLUTIONS

- » SPECTRUM® real-time coiled tubing services to gather data with fiber-optic DAS and DTS diagnostics
- » Survey and collect profile data along the entire wellbore for leak detection

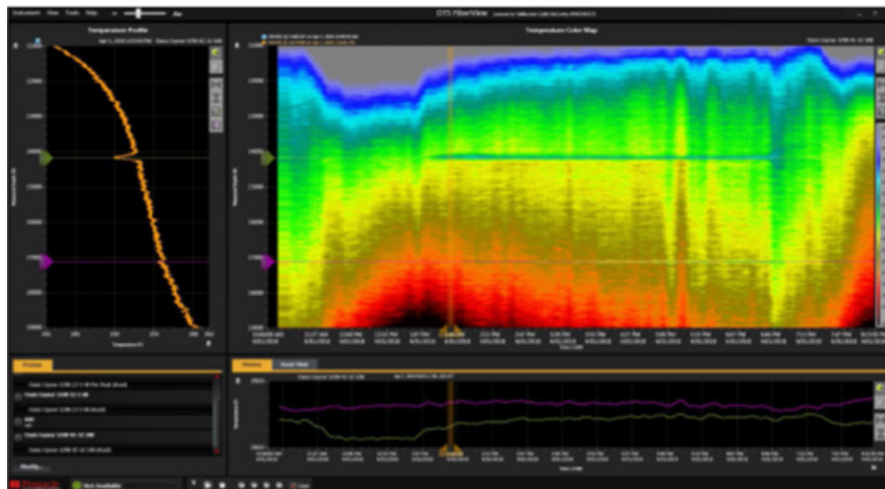
RESULTS

- » Pinpointed two leaks at the exact locations of 14,159 feet (4315 meters) and 17,110 feet (5215 meters)
- » Identified multiple leaks via a single-trip survey
- » Avoided several packer sets and logging trips, reducing cost and risk
- » Provided information needed by engineers to remediate the leakage problem

OVERVIEW

Abnormal behavior of a well suspected of leakage was resolved through accurate detection of two leak positions within the wellbore, one at 14,159 feet (4315 meters) and another at 17,110 feet (5215 meters). This knowledge enabled engineers to swiftly remediate the problem with minimal impact on production.

Such an operation typically takes several packer sets and logging trips to achieve the same results, adding cost and unnecessary intervention risks. The efficient identification of leaks was critical to keeping the shut-in time of the well to a minimum, thus preventing production disruption.



Temperature and noise data obtained from SPECTRUM® real-time coiled tubing services.

HALLIBURTON DIAGNOSTIC SERVICES SIMULTANEOUSLY IDENTIFIES MULTIPLE LEAKS IN REAL TIME

Fiber-optic distributed acoustic sensing (DAS) and distributed temperature sensing (DTS) diagnostics from SPECTRUM® real-time coiled tubing services were used to monitor variations of temperature and noise along the entire wellbore in real time. This technology helped to accurately determine leak points, which was key to effective remediation. The job was performed with a single-trip survey, thus minimizing production impact and quickly returning the well to normal behavior.

To find out more, please visit: halliburton.com/spectrum

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