

Operator Improves Well Intervention Efficiency Using Integrated Barrier Monitoring System

EVO-TRIEVE® RETRIEVABLE BRIDGE PLUG WITH DYNALINK® TELEMETRY SYSTEM PROVIDES CRUCIAL DATA COMMUNICATION

WESTERN AUSTRALIA

CHALLENGES

- » Well intervention on CO₂ injection wells
- » Shallow barrier integrity monitoring
- » Pressuring up gas volume to conduct a positive test

SOLUTIONS

- » Evo-Trieve® retrievable bridge plug with DynaLink® telemetry system

RESULTS

- » Integrated barrier system provided real-time pressure test and verification
- » Acoustic and wireless communication maintained throughout operations

OVERVIEW

During a well intervention for a major operator, Halliburton delivered a wireless barrier monitoring solution that allowed for pressure testing and verification in real time. This would mark the first global installation of an integrated barrier system that combines the Evo-Trieve® retrievable bridge plug with the DynaLink® wireless acoustic telemetry system.

CHALLENGES

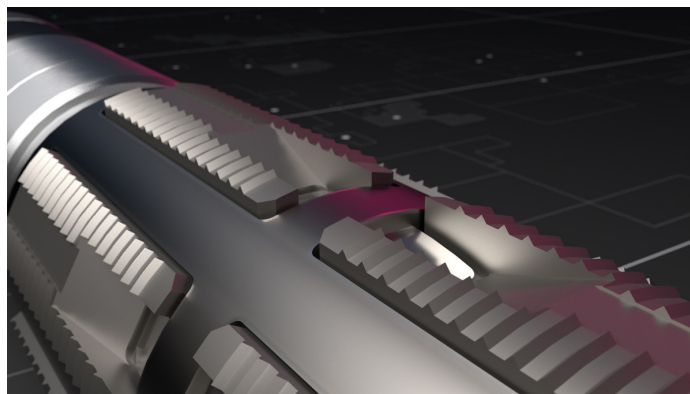
The operator needed to complete well intervention operations, which included removing and re-installing the Christmas tree on a CO₂ injection well. This required a verified shallow-set barrier to secure and control the well.



Using acoustic vibrations allowed us to monitor **barrier and read data in real time** with wireline package rigged down and Christmas tree off.

SOLUTIONS

Halliburton teams from Testing and Subsea and Completion Tools recently began collaborating to develop an integrated barrier system that provides a reliable barrier using the Evo-Trieve retrievable bridge plug and wireless monitoring and verification using the DynaLink telemetry system. After meeting with the operator and carefully considering the job objectives, Halliburton recommended installing a 4-1/2" Evo-Trieve retrievable bridge



Evo-Trieve® retrievable bridge plug

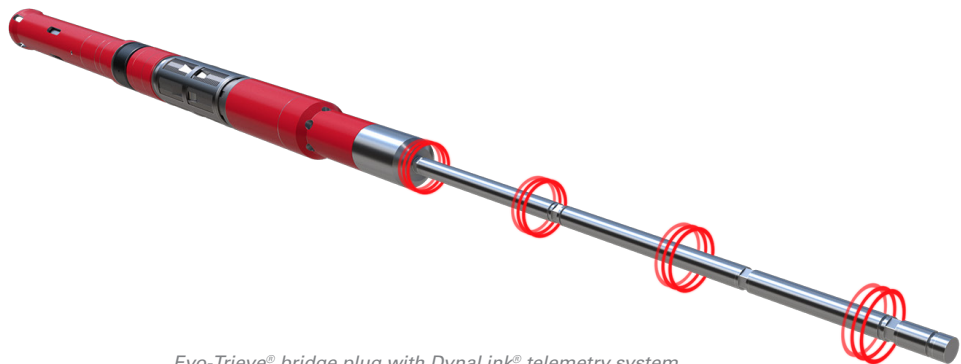
plug equipped with a DynaLink system single quartz gauge. The bridge plug / gauge combination was installed below the tubing hanger and pressure tested. A DynaLink system repeater with surface wireless kit was mounted onto the wellhead base and the signal sent to the data acquisition unit located in an air-conditioned container.

RESULTS

Through collaboration between product service lines, Halliburton delivered a reliable technology-driven solution that allowed the operator to monitor shallow barrier integrity wirelessly, maximizing asset value. Access to real-time data and diagnostics mitigated risks to personnel working in the well bay area, enabled quicker decision making, and helped eliminate uncertainty with pressuring up gas volume to conduct a positive test. In addition, the barrier monitoring system provided valuable data prior to equalizing and retrieving the bridge plug.



Monitoring Shallow Barrier Integrity Wirelessly = Maximizing Asset Value



Evo-Trieve® bridge plug with DynaLink® telemetry system

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