

Western Australia

Operator improves well intervention efficiency using integrated barrier-monitoring system

EV0-Trieve® retrievable bridge plug with DynaLink® telemetry system provides crucial data communication

CHALLENGE

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

SOLUTION

- EV0-Trieve® retrievable bridge plug with DynaLink® telemetry system

RESULT

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

Overview

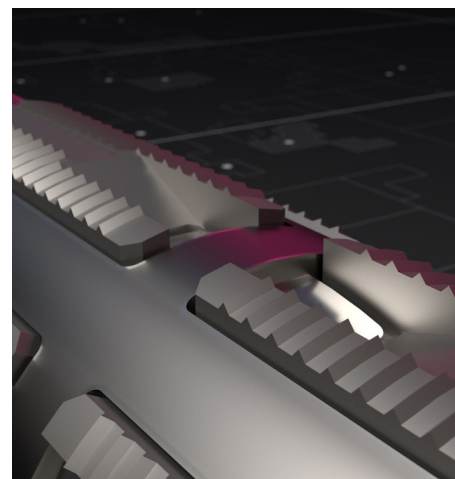
During a well intervention for a major operator, Halliburton delivered a wireless barrier monitoring solution that allowed pressure tests and verification in real time. This marked the first global installation of an integrated barrier system that combines the EV0-Trieve® retrievable bridge plug with the DynaLink® wireless acoustic telemetry system.

Challenge

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

Solution

Halliburton teams from Testing and Subsea and Completion Tools recently began collaboration to develop an integrated barrier system that provides a reliable barrier using the EV0-Trieve retrievable bridge plug and wireless monitoring and verification using the DynaLink telemetry system. After meeting with the operator and careful consideration of the operational objectives, Halliburton recommended installation of a 4-1/2-in. EV0-Trieve retrievable bridge 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.



EV0-Trieve® retrievable bridge plug

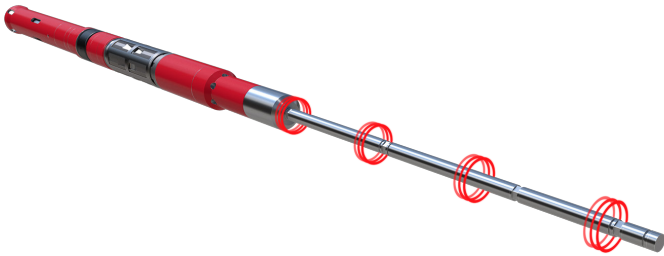
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Result

Through collaboration between product service lines, Halliburton delivered a reliable technology-driven solution that allowed the operator to monitor shallow barrier integrity wirelessly, and maximize 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. Additionally, the barrier monitoring system provided valuable data before to equalization and retrieval of the bridge plug.



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



EV0-Trieve® bridge plug with DynaLink® telemetry system

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