

United Kingdom

# Combined technology delivers confirmed barriers

EV0-Trieve™ bridge plugs and DynaLink® wireless acoustic telemetry system provide confirmed dual V0 barriers

## CHALLENGE

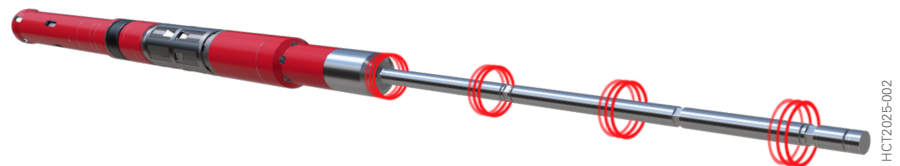
- Restriction below TRSSSV prevented deep-set plug installation
- No pressure source available below deep barrier
- Limited volume between plugs complicated test interpretation

## SOLUTION

Deploy EV0-Trieve™ retrievable bridge plugs with DynaLink® acoustic telemetry system gauge repeaters suspended below each plug

## RESULT

- Confirmed dual V0 barriers remotely
- Helped reduce runs and minimized rig time
- Executed continuous pressure monitoring below plugs
- Helped improve operational assurance during abandonment



EV0-Trieve™ bridge plug with DynaLink® wireless acoustic telemetry

## Overview

As part of a North Sea well abandonment program, an operator required two independent mechanical barriers to allow temporary well suspension before Christmas tree removal and blowout preventer (BOP) installation. The operator required a reliable solution deployable on slickline that could confirm barrier integrity in the direction of flow, without the capability to apply pressure below the deep-set plug. Halliburton delivered a combined mechanical and monitoring system that provided remote verification of both barriers and helped reduce operational time.

## Challenge

The operator had to kill the well before installation of the mechanical barriers. However, the existing well architecture introduced several constraints. A restriction below the tubing retrievable subsurface safety valve (TRSSSV) prevented the use of a conventional deep-set plug. With the well killed, the operator could not apply pressure below the deep barrier to verify integrity in the direction of flow. Additionally, the shallow plug needed to be set only 95 ft above the deep-set plug, which created a limited test volume and complicated pressure response interpretation. These combined factors increased operational risk and the potential for delays.

## Solution

Halliburton proposed slickline deployment of the EV0-Trieve™ retrievable bridge plug with the DynaLink® wireless acoustic telemetry system suspended directly below each plug. The EV0-Trieve plug provided an API 11D1 V0 mechanical barrier and the DynaLink system provided continuous pressure measurement below each plug without intervention. The EV0-Trieve plug design allowed the team to suspend gauges without any modification, so the team selected a standard slickline crossover to connect the gauge assembly.

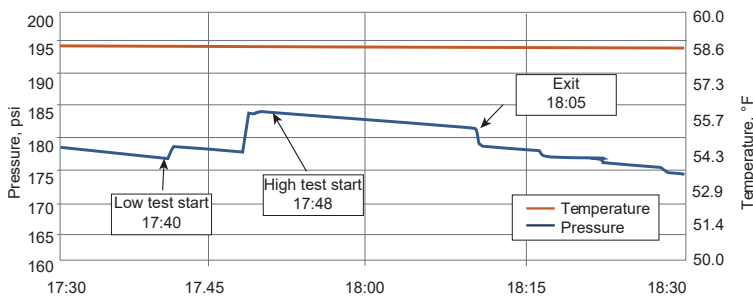


The team deployed and set both plugs at 422 ft and 327 ft in two slickline runs. Each bottomhole assembly included an integrated junk basket, which allowed the team to install the plug, place the gauge, and capture debris in a single trip. During pressure tests, the DynaLink system transmitted real-time pressure data from between the plugs to verify plug integrity. When the operator applied 390 psi during the low test and 1,450 psi during the high test above the shallow plug, the gauge recorded minor pressure increases—2 psi and 5 psi, respectively—which indicated that both plugs held pressure as designed.

## Result

The plug installations and remote monitoring were completed efficiently, which allowed the operator to help verify both mechanical barriers without additional interventions. Real-time wireless pressure data increased operational assurance and helped remove the requirement for complex test interpretation workarounds. The integrated BHA reduced rig time by allowing installation of the plug, gauge repeater, and junk basket in two runs instead of multiple trips. The operator achieved verifiable barrier placement that met regulatory requirements and minimized operational risk and downtime.

### Shallow EV0-Trieve™ bridge plug barrier verifications



» FIGURE 1 - DynaLink® gauge data recorded during pressure test of shallow plug from above.

» FIGURE 2 - Cement unit graph pressure test of shallow plug from above.

Figure 1

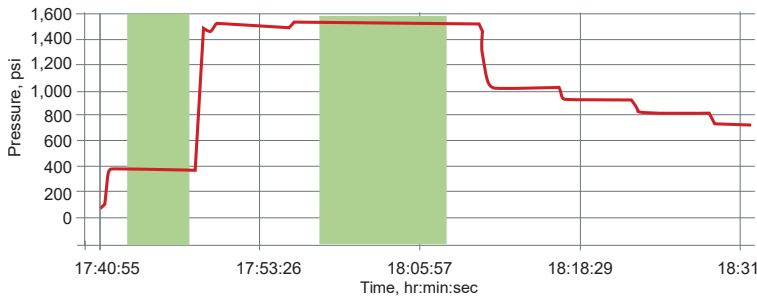


Figure 2

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