

Austria

Operator saves 24 hours and \$100K using retrievable wellbore tools in Austria

Single-run deployment of 7-in. Model 3L™ bridge plug and 9 5/8-in. RTTS® packer streamlines liner lap testing and improves safety

CHALLENGE

- Isolate 7-in. liner lap for positive and negative tests
- Minimize casing exposure during pressure test
- Reduce fluid volume for inflow test
- Complete operation in one trip

SOLUTION

- Deploy Model 3L™ RBP and RTTS® packer in one run
- Perform multiple pressure and inflow tests
- Use circulating valve for fluid displacement

RESULT

- Saved 24 hours of rig time
- Reduced HSE exposure at worksite
- Delivered estimated USD 100,000, cost savings

Overview

An operator in Continental Europe worked with Halliburton to isolate a 7-in. liner and perform positive and negative tests on the 7-in. × 9 5/8-in. liner lap. The operator required a solution that minimized casing exposure during pressure testing, reduced fluid volume for inflow testing, and completed the operation in a single trip.

Challenge

The operator faced a complex set of objectives that required precise execution. First, they needed to isolate the 7-in. liner lap for both positive and negative pressure tests while minimizing casing exposure to high-pressure conditions. Fluid volume reduction for inflow testing was also critical to optimize efficiency and limit operational risk. Finally, the operator wanted to complete the entire operation in a single trip to save time and reduce rig costs. These requirements demanded a solution that combined flexibility, reliability, and the capability to perform multiple tasks without additional runs.



Model 3L™
RBP

RTTS® packer

Solution

Halliburton deployed a 7-in. Model 3L™ retrievable bridge plug (RBP) in combination with a 9 5/8-in. RTTS® packer and RTTS® circulating valve. This configuration allowed the operator to isolate the liner lap and perform multiple tests without additional runs.

The team ran the RBP, packer, and circulating valve in a single run. The RBP was set 110 m below the liner lap at 4254 m to allow a positive pressure test to 50 bar (725 psi). The workstring was then picked up to set the RTTS packer and circulating valve 20 m above the liner top at 3994 m for further testing.

Although the initial test was unsuccessful, the packer's capability to set and unset multiple times in one run allowed repositioning and ultimately a successful pressure test to 460 bar (6,670 psi). The team then displaced lighter fluid at 1,000 L/min (6.2 bbl/min) and performed an inflow test, which revealed a leak at the liner top.

To address the leak, the operator ran and tested a tieback liner to 50 bar (725 psi) with the RBP still set. A subsequent pressure test to 150 bar (2,175 psi) and a

six-hour inflow test confirmed integrity. The operator then unset the packer, reversed out fluid, and recovered the RBP and packer to surface.

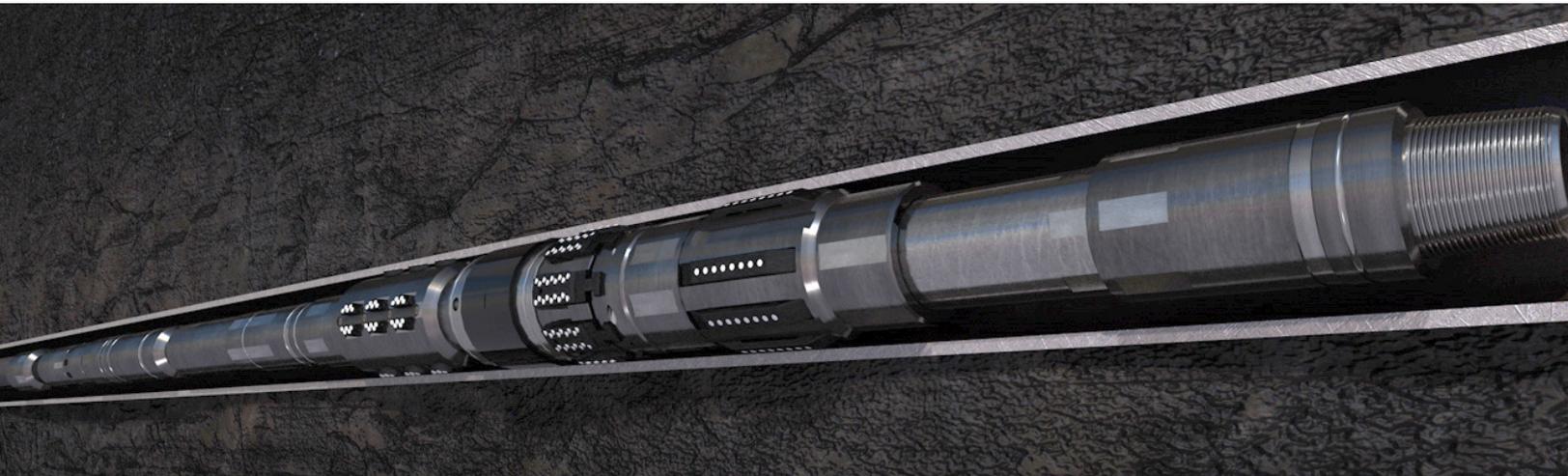
When gas was observed during retrieval, the team set the RBP again to circulate out the gas before final recovery, to demonstrate the flexibility of the Model 3L RBP.

Model 3L™ RBP and 9 5/8-in. RTTS® packer set and recovered in a single trip.



Result

The capability to set and release the RTTS packer and Model 3L RBP in a single trip saved approximately 24 hours of rig time, which is an estimated USD 100,000 in cost savings. The solution also reduced personnel HSE exposure by via less pipe handling at the surface. Despite multiple repositioning attempts, the robust equipment allowed the operator to achieve operational objectives efficiently and safely.



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