COIL TUBING SERVICES
A Schlumberger Company

# Coil Tubing Services Retrieves Fish in Three Runs over 14 Hours for Operator

## CoilTOOLS tools and solutions use a specialized taper tap to quickly retrieve bridge plug after a competitor attempted 12 unsuccessful runs over three days

### CHALLENGE

Retrieve a damaged retrievable bridge plug after a fishing attempt sheared the retainer nut holding it in place.

### SOLUTION

Use CoilTOOLS* CT intervention tools and solutions to create a specially designed taper tap fishing tool capable of dislodging the fish.

### RESULTS

Pulled the retrievable bridge plug to surface in three runs over 14 hours—after previous attempts by a competitor using a burn shoe exceeded 12 runs over 72 hours.

### Damaged retrievable bridge plug leads to 72 hours of NPT

When an operator was running coiled tubing in hole with a motor and mill during milling operations on a plug-and-perf well, it tagged and damaged a retrievable bridge plug in the vertical section. Below the bridge plug were 20 frac stages that had been stimulated, and the bridge plug needed to be pulled to put the well on production. The bridge plug provider attempted to fish the plug, but the subsequent fishing operation sheared the retainer nut holding the plug in place, leaving the plug in the vertical section above the stimulated zones. The top sub of the overshot tool also broke off during the fishing attempt, leaving the operator with a complicated engagement profile.

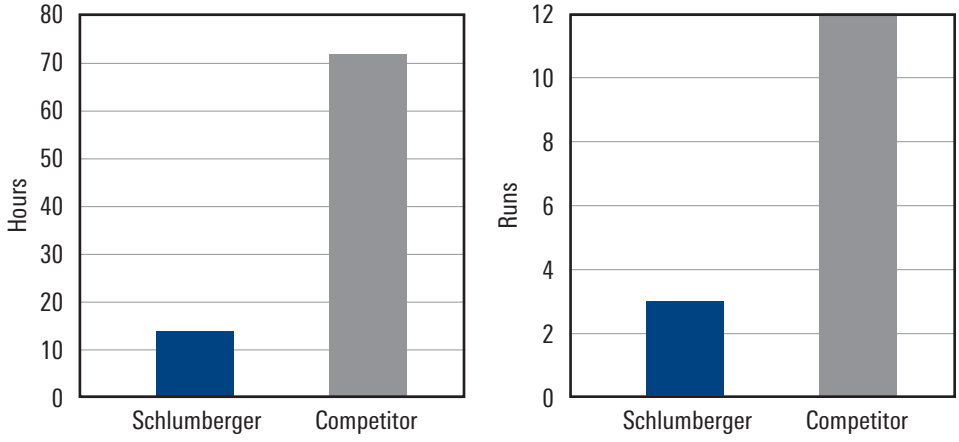
The operator worked with another tool provider to burn over the tool and mill out the slips. However, after 12 runs, 72 hours, and 25,000 lbf [111,206 N] applied with no success, the operator sought input from Coil Tubing Services, a Schlumberger company.

### CoilTOOLS tools and solutions eliminate additional burnover runs

Instead of performing more burnover runs, Coil Tubing Services proposed an alternative technique using a taper tap to fish the lost bridge plug internally. Using CoilTOOLS tools and solutions, Coil Tubing Services collaborated with the operator and the retrievable bridge plug's design team to create a taper tap tool specifically designed to spear the inner mandrel of the bridge plug. By setting down enough weight with the taper tap inside of the damaged mandrel and getting a friction grab by pulling up approximately 1,000 lbf [4,448 N], the mandrel could be recovered back to a retrievable position. This would mean the slips would no longer be expanded and would be retracted off the cone and back into the tool. By retracting this mandrel and then running in with an overshot, the tool could then be pulled without having to fight against the slips.

### Customized taper tap tool helps operator recover fish in just three runs

Using centralizers and the custom taper tap, Coil Tubing Services speared the mandrel and dislodged the fish. A subsequent run with an overshot tool at 7,000 lbf [31,138 N] successfully engaged the retrievable bridge plug, pulling it to surface with no issues. The entire operation took three runs over only 14 hours, allowing the operator to resume milling operations on the remainder of the well.




*After three days of unsuccessful attempts by a competitor exceeded 12 runs using a burn shoe, Coil Tubing Services used a specialized taper tap to retrieve the bridge plug in only three runs and 14 hours.*

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