In cased-hole sand control applications, operators need an efficient yet safe way to log the sump packer to depth, set it, and perforate in a single trip. The Single-Trip Sump and Perforate (STSP) system is an improved and effective method for running cased-hole sand control completions.

This innovative system increases efficiency by reducing trips, and improves reliability with proven Halliburton components. The STSP system can be used in 5-1/2-in. through 13-3/8-in. casing, and eliminates the need for long rathole sections below the sump packer that are common in single-trip perforate and pack completions.

The significant costs associated with mobile offshore drilling units greatly increase the value and benefits of the STSP system. It can cut workstring/e-line trips from four to two, and fewer pipe trips means less rig time to install single or multizone cased-hole sand control completions, while minimizing complexity and risk. The benefits are even more significant for highly deviated or horizontal wells where traditionally an additional through-tubing e-line trip with a tractor would be used to convey the sump packer to depth.

The STSP system combines in a single tubing trip the steps of logging a sump packer to depth and setting it, then performing tubing-conveyed perforations. And its flexibility allows for the installation of conventional gravel pack, frac pack, and multizone completion equipment and service tools.
**BENEFITS**

» Helps reduce rig time and associated costs  
» Helps reduce operational complexity and safety risks  
» Can eliminate mechanical shock of perforating on sand control equipment, screens, and service tools  
» Compatible with cleanup trip after perforating, if necessary  
» Provides added benefits for reaching depth in highly deviated, horizontal, and extended reach wells, as well as where it’s difficult to enter liners  
» Eliminates need for e-line or a tractor in most cases

**FEATURES**

» Gamma ray technology accurately locates sump packer setting depth with LWD/MWD systems  
» No limitations of length, size, or number of shots for tubing-conveyed perforating  
» Sump packer is not run through perforated casing  
» Can be used in water-, frac-, slurry-, or gravel-pack operations  
» Uses standard sand control service tools (high rate, annulus pressure isolation, reservoir pressure maintenance, and anti-swab)  
» Applicable for single or multizone operations  
» Hydrostatic-set sump packer uses low setting pressure (±1000 psi)  
» Service tools and guns are retrieved before running completion equipment

**OPERATING PROCEDURE**

- Run assembly to depth  
- Circulate down tubing to activate and log sump packer to accurate setting depth  
- Close annular preventer and pressure down tubing to set sump packer  
- Open annular preventer and pull up to shear off sump packer  
- Set Champ® packer (if used)  
- Close annular preventer and pressure down casing to test Champ packer  
- Pressure down tubing to fire tubing-conveyed perforating guns  
- Pull out of hole  
- Run sand control equipment, land in sump packer, and perform treatment

For more information, contact your local Halliburton representative or visit us on the web at www.halliburton.com