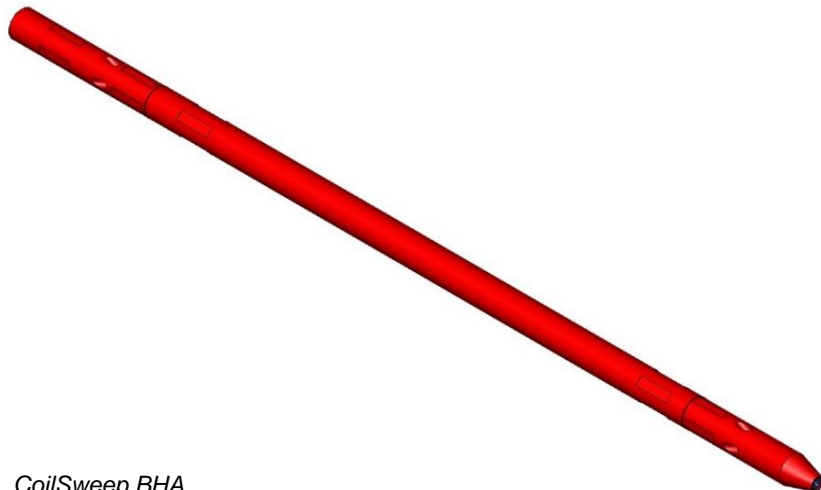


# CoilSweep®

## Enhanced Sand Cleanout Tool

The CoilSweep tool has been developed to address the problems associated with cleaning sand and debris from large-diameter, deviated, or horizontal wellbores.



*CoilSweep BHA*

Combining Halliburton's coiled tubing expertise and fluid technology for optimum cleaning efficiency, the CoilSweep tool is a component of the CoilSweep Service: A three-part engineered customized approach to wellbore cleanouts.

- » **Service Tool:** The CoilSweep service tool can help provide optimum hole cleaning. With a design based on understanding the different mechanics associated with deviated and horizontal wells, the wash nozzle can provide optimum cleaning efficiency for wiper trips.
- » **Fluid Systems:** CoilSweep service fluids address critical factors including carrying ability, friction pressures, and minimizing formation damage—especially important when using pre-hydrated polymers.
- » **Cleanout Treatment Design Software:** InSite® for Well Intervention software helps engineer the job design. It models pump pressures, flow rates, velocity profiles, predicted bed growth, and equivalent circulation densities, for both foamed and conventional fluids.

### APPLICATIONS

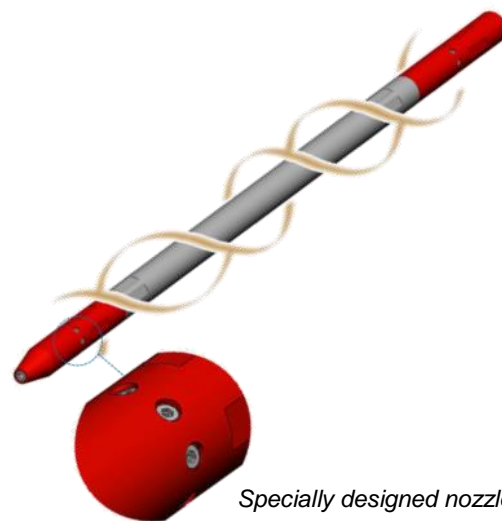
- » Enhanced fill removal
- » Cleanout of highly deviated wells
- » Cleanout of large diameter wells

### BENEFITS

- » More efficient cleanouts
- » Compatible with any fluid system
- » Minimizes the amount of residual fill left behind in the well

### FEATURES

- » Specially angled jets to optimize fluid turbulence for solids removal
- » Customized fluid systems to address a range of wellbore challenges
- » Robust job design software



*Specially designed nozzles and spacing that promotes turbulence around the BHA*

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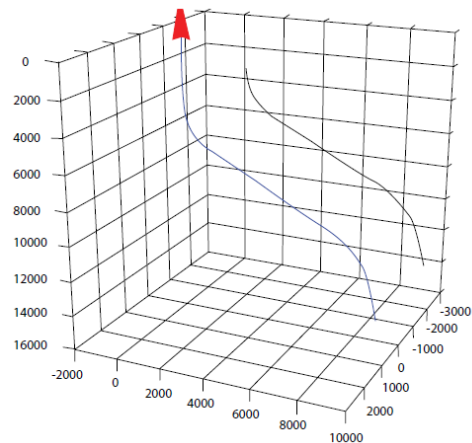
### CoilSweep Service Tool

Two sets of tangential side-jets optimize the transport of fill deposits out of the well. The tool is engineered with a combination of specially designed nozzles and spacing that promotes turbulence around the bottomhole assembly (BHA) to keep the fill moving up the hole ahead of the tool on wiper trips.

Down-jet helps remove hard-packed debris. The tool enables jet washing in a downward mode before the final wiper trip so sand and other wellbore debris can be removed effectively. The down-jet is also designed to counteract displacement during the pulling out of hole (POOH) operation.

Effective in large diameter wellbores. In conjunction with proper job design, the CoilSweep service tool can aid in efficient sand and debris removal from large wellbore geometries by inducing turbulent flow around the BHA.

The current tool is available in 1.69-in. and 2.375-in. sizes.

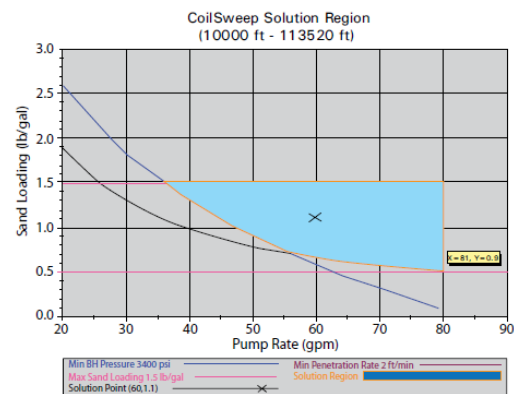


### CoilSweep Fluid Systems

CoilSweep service provides four different fluid systems so that treatment can be tailored precisely to well conditions whether the priority is hole cleaning, return permeability or both. These fluid systems are capable of gelling any clear fluid for optimum rheology.

#### Fluid System Target Applications

CoilSweep™ I Fluid	Priority: hole cleaning Fluid density up to 11 lb/gal
CoilSweep™ III Fluid	Priority: return permeability. Viscosified bromide fluids up to 20 ppg
CoilSweep™ IV Fluid	Priority: return permeability Best for extremely sensitive formations or mild gelling applications
CoilSweep™ Lite Fluid	Priority: both hole cleaning and a return permeability A foamed system for low bottomhole pressures or where sufficient velocities cannot be obtained
AquaLinear® Fluid	Shear-thinning and uniquely efficient in static sand suspension, an excellent choice for wellbore cleanouts



### Cleanout Design Software

InSite® for Well Intervention software enables comprehensive modeling and reporting of well cleanout procedures. Cleanout designs can now provide the optimum fluid type and operating conditions to minimize the number and spacing of wiper trips to effectively clean deviated well bores.

For more information, contact your local Halliburton representative or visit us on the web at [www.halliburton.com](http://www.halliburton.com)

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