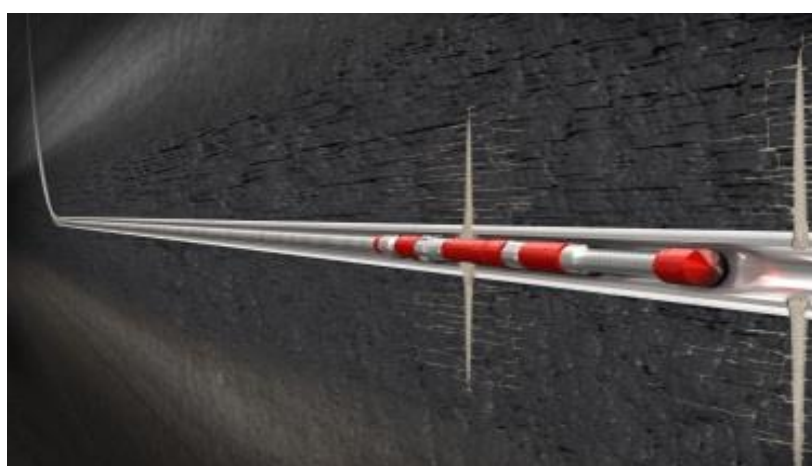


SurgiFrac® NWB Service

Formation Enhancement with Focused Injection

SurgiFrac NWB (Near Wellbore) service is a process to remove damage in the wellbore, penetrate existing fractures, and create new small/medium-sized fractures. Utilizing dual-path injection and a HydraJet™ enabled BHA, focused chemical and/or solids laden fluids may be accurately placed, regardless of wellbore damage or previously stimulated intervals existing above or below the target treatment intervals.



The process can be used in small or large casing and slotted liner and is most effective in openhole using acid for enhanced matrix stimulation.

Coiled tubing application allows slow movement of the tool while jetting to provide coverage over large areas of open formation or held stationary at intervals to place small to medium fracs, while also re-opening natural fractures.

SurgiFrac NWB Operating Parameters

Well Completion	Perforation Status	Stimulation Flow Path	Isolation Method
Cased or Open Hole Horizontals	Unperforated or Pre-perforated	Tubing and Annulus	Dynamic Diversion / Focused Injection

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

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APPLICATIONS

- » Multi-stage / large interval stimulation in horizontal wells
- » Enhanced matrix acidizing
- » Re-Fracturing existing stages
- » Stimulating previously bypassed pay
- » Stimulation simultaneously pumped down the tubing and annulus
- » Cased or open hole wells
- » Live well operations

BENEFITS

- » Capable of delivering treatments below ID restrictions or damaged well sections
- » Capable of treating multiple stages or large sections of open hole in a single run
- » Targeted placement of treatment intervals ensures no bypassed pay
- » Eliminates the need to set plugs that must be removed later
- » Requires smaller operating footprint for improved environmental performance

FEATURES

- » HydraJet™ abrasive perforating tool incorporated into the assembly
- » Customizable jet configurations to accommodate tailored treatments
- » Customizable carrier assembly options to accommodate well completion
- » Configurable with specialized eccentric swivel assembly to enable oriented perforating and stimulation
- » Rated for H2S service applications