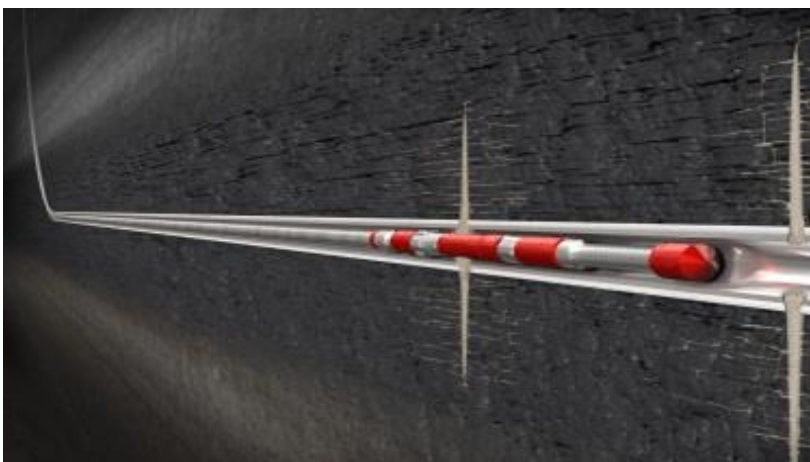


SurgiFrac® Service

Multi-Stage Stimulation with Dynamic Diversion

SurgiFrac service enables the placement targeted stimulation treatments in any horizontal well utilizing manipulation of the Bernoulli Effect, through a process called Dynamic Diversion. In this way, focused stimulation may be delivered to both cased and openhole wells, regardless of previously stimulated intervals existing above or below the target treatment intervals.



Utilizing HydraJet™ abrasive jetting tools, the SurgiFrac process involves cutting a new perforation or channel in the target interval, then moving straight into the stimulation phase, jetting the treatment fluid directly into the desired zone. The overall rate is boosted by using clean fluid down the annulus to enhance the combined treatment rate.

SurgiFrac is compatible with acidizing, chemical injections, and proppant frac applications. The process uses a highly configurable tool assembly, with the ability to customize jet count and alignment, tool diameter, and even the incorporation of orienting tools to accommodate targeted stimulation operations.

SurgiFrac 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

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

APPLICATIONS

- » Multi-stage stimulation in horizontal wells
- » 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 in a single run in hole
- » 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

Sales of Halliburton products and services will be in accord solely with the terms and conditions contained in the contract between Halliburton and the customer that is applicable to the sale.

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