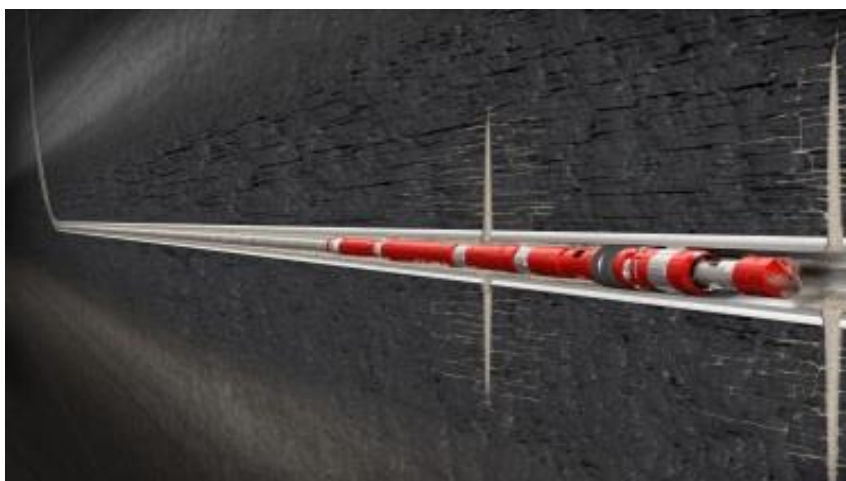


CobraMax[®] HJA Service

Multi-Stage Stimulation with Downhole Anchor

CobraMax HJA (HydraJet Anchor) service enables the placement of multiple, customized, and consecutive hydraulic fractures in an unperforated cased wellbore. The process incorporates depth correlation for accurate fracture placement, Hydra-Jet™ abrasive perforating service, and hydro-mechanical zonal isolation using a res-settable anchoring tool.



The specialized Hydraulic Anchor assembly provides stabilization to improve jetting efficiency and enables zonal isolation between stages when pumping at frac rates. The Anchor is also designed to allow automatic equalization across the elements when the stimulation stage is completed. No separate equalization step is needed to un-set the assembly between zones, further streamlining the stimulation process.

CobraMax HJA Operating Parameters

Well Completion	Perforation Status	Stimulation Flow Path	Isolation Method
Cased Wells	Unperforated	Annulus	Mechanical Anchoring Element

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

APPLICATIONS

- » Multi-stage fracturing in cased hole wells
- » Stimulation pumped down the annulus
- » Vertical and horizontal wells
- » Live well operation.

BENEFITS

- » The most streamlined and efficient multi-stage fracturing method
- » Mechanical isolation between stages reduces overall fluid consumption
- » Capable of fracturing multiple stages 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

- » Re-settable mechanical anchor to enable stabilization and isolation between stages
- » Unique component design allows automated equalization across anchor elements
- » Abrasive perforating tool to enable perforating and stimulation in a single run

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