

## PRODUCTS - SOLUTIONS - RESOURCE

### PRODUCT OVERVIEW:

The X-FRAC Skinny is a high performance mechanical Isolation tool which operates on a continuous J slot. The Xfrac Skinny is intended for annular fracturing on coiled tubing. This system allows for selective treatment of virtually unlimited stages in a single trip and is ideal for vertical or horizontal multi-stage stimulation operations. The X-FRAC can be used in conjunction with Resource's Zone Striker pressure balanced communication sleeves, or ran into a well with blank casing and used as isolation for abrasive Sand Jet Perforator operations.

When run in conjunction with Resource's Zone Striker completions system, the X-FRAC is set inside a sleeve providing isolation from zones below, allowing hydraulic force to be applied above the set element stack, shifting the sleeve to allow communication with the formation. To achieve this task, the BHA is run in hole to TD. Once TD is reached, the string can be pulled up towards the bottom sleeve. 10 m prior to reaching the bottom sleeve, the tool is cycled into set mode. The tool string is then pulled up at 5 m/min to locate inside the sleeve profile. Positive weight will be indicated at surface then the tool is set in compression. The applied compressive load packs off the packing elements isolating everything below. At this point, a hydraulic force can be applied to overcome the shear pins, opening the sleeve to deliver an instantaneous high pressure shock to formation. Fracturing can now commence down the tubing, while pumping down the tubing to minimize pressure differential.

When used as isolation to make cuts in blank casing using the SJP, a ball is placed on seat in the top sub of the X-FRAC for SJP activation. An optional chrome steel ball can be run in place to activate the SJP. The ball will be contained in place with a perforated insert installed above. Any pumping down the tubing will then seat the Chrome ball directing flow out the SJP. This also creates an increased pressure lowering the differential on the coil tubing. For cutting operations to be achieved, the BHA is run in to TMD. Marker joints are located with the CCL for depth correlation and collars are located while slowly pulling out of hole. Once the SJP is on depth, a compressive load is set on the X-FRAC for positive isolation. Cutting operations can now be performed down the tubing at the desired rate and sand concentration. Upon completion of the cut, frac treatments can begin down the annulus.

### FEATURES:

- Short compact system ensures ease of handling and trouble free deployment in difficult well profiles.
- Performance tested, barrier style, packing element ensures only a single trip is required for well completion.
- Unique locating system allows for precise positioning and positive depth correlation.
- Simple "Continuous J" profile allows for ease of setting and unsetting the tool.
- Minimal weight required to set element stack within liner.
- Bonded seal bypass system with flow diverter ensures no communication with zones below.
- Allows for precise, pin point frac locations.
- Ability to frac down tubing, annulus, or both simultaneously.
- Ability to add stages in blank casing on the fly using SJP.
- Simple, reliable sand cleanup from either tubing or annulus in event of screen out.
- Ultra-fast transition time between zones.
- Available in corrosion resistant alloys for hostile environments.

