ReelFrac™ Annular Frac Bottomhole Assembly

Weatherford's *ReelFrac* Annular Frac bottomhole assembly (BHA) is a compression-set, coil-tubing-conveyed system that enables multizone perforation, isolation, and fracturing during a single trip in the wellbore, dramatically increasing operation efficiency in comparison to conventional plug-and-perforation methods.

The *ReelFrac* uses an abrasive perforator to establish communication between the wellbore and formation. After all the perforations are created, a multiset coiled-tubing packer is activated to isolate the wellbore below a specific zone. The zone is then hydraulically fractured by pumping down the coiled-tubing casing annulus. After the fracturing operation, the packer is pressure-equalized and unset, and the system is moved to the next zone for further perforation, isolation, and fracturing operations. This system enables multiple zones to be treated with a single trip into the wellbore, significantly reducing completion costs and operation time.

Applications

- New or existing horizontal and vertical completions
- Multizone fracturing operations

Features, Advantages and Benefits

- Mechanical casing-collar locator provides accurate depth control, enabling proper fracture/stimulation placement.
- Abrasive perforator provides clean perforations with minimal formation damage, reducing wellbore friction and breakdown pressures for fracture initiation, leading to more effective stimulation treatments.
- Reverse circulation sub enables the removal of fractured materials in case of screenout, reducing the risk of the BHA becoming stuck in the wellbore.

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Features, Advantages and Benefits (continued)

- Coiled-tubing packer provides multi-set sealing capability via tubing reciprocation, enabling high-temperature and high-pressure differential wellbore isolation.
- The pick-up unloader equalizes system pressure after stimulation, enabling easy packer system unsetting for relocation.

Specifications

Casing Size (in./*mm*)	Weight Range (lb/ft; *kg/m*)	Packer Gauge OD (in./*mm*)	Alternate Gauge ODs (in./*mm*)	Temperature Rating (°F/°C)	Pressure Rating (psi/*MPa*)	Connections (in.)
4.500 *114.3*	9.5 to 15.1 *14.2 to 22.5*	3.720 *94.488*	3.812 *96.824*	300 *150*	8000 *55.1*	2-3/8 WTS-8
5.500 *139.7*	13.0 to 23.0 *19.4 to 34.3*	4.500 *114.300*	4.625 *117.475*			
			4.750 *120.650*			
			5.000 *127.000*			

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