



WFX Gravel Pack System

Weatherford's WFX gravel pack system is a new sand control completion equipment system specifically designed for the extraordinary demands of high-rate, high-pressure treatments. This system features the proven and popular BlackCat retrievable seal-bore packer, equipped with a G2 closing sleeve extension, located above the screen installation. The WFX system is deployed with the Weatherford WFX service tool. This tool integrates designed-for-purpose hydraulic setting and crossover tools with a special circulating valve that simplifies operation and improves the chance of operational success in the most demanding environments.

With this innovative circulating valve, the crossover tool is returned to a single fixed position, whether the system is in squeeze or circulating mode. Time is not spent moving the pipe, trying to determine the tool's position, as with those systems in which the crossover tool "floats" in the packer bore. Rig personnel and the completion specialist simply maintain weight on the service tool throughout the entire sand placement operation and easily keep the crossover tool in its intended position.

This robust system withstands the highly erosive conditions and high pressure differentials encountered with today's extreme sand placement methods.

Applications

- Frac packs
- High-rate water packs
- Conventional gravel packs
- Floating rigs

Features, Advantages and Benefits

- Thermal contraction of the work string, which is common during high-rate sand-control treatments, and the wave heave associated with working from floating rigs can cause unwanted changes in tool position; however, the WFX crossover tool allows both circulating and squeeze modes from a single fixed position, minimizing unwanted tool movement.
 - The tool reduces the chance of accidental placement of sand, proppant, or treating fluid above the packer to ensure operational success.
 - The tool promotes trouble-free operations by eliminating the need to move the work string to determine tool position, as required with competing tools.
- Anti-preset feature keeps the packer from setting prematurely, even when encountering debris or tight spots. This feature assists in setting the packer at the right depth the first time to avoid delays.
- The ability to transmit torque through the setting tool and packer assembly allows rotation of the entire assembly to bypass troublesome liner tops or sand bridges without having to pull out of the hole and make a cleanup trip.
- High 10,000-PSI (68.9-MPa) pressure rating makes the WFX system suitable for high bottomhole treating pressures or high reservoir pressures, which reduces costs by eliminating the need to separate the treating and production assemblies.
- The BlackCat packer meets ISO Level V3 certification standards, which include testing to 10,000 PSI with pressure reversals at working temperatures of 120° to 300°F (49° to 149°C).
- Every WFX system is thoroughly flow tested with proppant loading far exceeding that of any typical operation. The erosion-resistant system fights wear and tear of high-rate abrasive pumping for greater reliability.



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