

Hydraulic Jet-Pump Systems

Reliable, High-Volume Performance within Challenging Applications

Applications

- Challenging well environments including gassy, sandy, and corrosive well conditions as well as high-temperature, heavy-oil, and high-deviation conditions

Features and Benefits

- **Rigless Intervention:** Install and retrieve the downhole-pump configuration (or assembly) for fast, low-cost maintenance and workovers
- **5-1/2 in. Casing Capability:** Maximize production with a slimhole, high-volume BHA allows for continuous use within harsh fluids
- **Early and Consistent Production:** Use a single form of lift over multiple ESPs in the first two years of well life
- **Permanent Magnet Motor (PMM) Direct Drive:** Save energy with direct-drive motors that outperform conventional induction systems
- **High-Deviation Capacity:** Take-on crooked wells with tight turns up to 24° per 100 ft in severity, including long laterals and full horizontals
- **Corrosive Fluid Tolerance:** Rugged manufacturing made with corrosion-resistant alloys that handle the chemical treatments necessary to control corrosion, paraffin, and scaling.
- **Smart AI Sensor Analytics:** Monitor critical surface and machine parameters with wireless high-resolution, ultrasonic inputs
- **High-Volume Capacity:** Produce at ESP-equivalent rates for longer featuring adjustable power-fluid inputs that are limited only by well inflow and the horsepower of the surface pump.

Tool Description

Weatherford Hydraulic Jet-Pump Systems deliver consistent, abundant production rates with low-maintenance operation for the life of virtually any well. As a cost-effective alternative to ESPs, jet pumps maximize uptime, reduce intervention costs, and respond quickly to changing reservoir conditions. Installed and retrieved without a rig or slickline, jet pumps leverage the Venturi effect using adjustable surface-injection parameters and interchangeable nozzle-throat configurations to optimize drawdown and amplify results as conditions evolve—all through a simple, solid-state design that has no moving parts.

Available in multiple configurations and premium material options, Weatherford jet pumps thrive in challenging environments including gassy, sandy, and corrosive well conditions as well as high-temperature, heavy-oil, and high-deviation conditions. Integrated skid enhancements also support proactive safety and cleaner operations, while Weatherford Smart Jet-Lift automations are available for real-time monitoring and production optimization with intelligent, machine-learning controls and remote-management tools.



Weatherford Hydraulic Jet-Pump Systems help save CAPEX and OPEX, gaining up to 14% greater uptime over ESP systems, with up to 35% lower cost of ownership, and up to a third less intervention costs. Increase production potential and achieve recovery goals with optimized flow rates that outperform ESPs and are easily controlled based on unique applications and pressure differentials. Boost system reliability with robust manufacturing and newly integrated skid built for high-corrosion environments.

