UNCONVENTIONALS

Reducing Days on Location and Time to First Oil

SIMULTANEOUS FRACTURING OPERATIONS

HALLIBURTON | Production Enhancement

AMPLIFY OPERATIONS

5,000+
LATERAL FEET
Completed in 24 Hours

180 MM+
POUNDS OF PROPPANT
Pumped Per Month

MORE STAGES,
LESS TIME

AVERAGING
160 BPM

STIMULATING
3,600 FEET/DAY

PUMPING
450+ HOURS/MONTH

COMPLETING
50% MORE
STAGES/MONTH

REDUCING
DAYS ON LOCATION
BY 50%

EXPERIENCE BY
THE NUMBERS

Simultaneously fracturing
SINCE 2016

Across
MULTIPLE BASINS

Completed
15,000+ STAGES
and counting

Operators are always looking for new ways to gain efficiencies at the surface. Take the zipper frac, for example. Using a single crew to alternate wireline and pumping operations between two wells resulted in more pumping hours per day. However, it wasn't long before the industry wanted to achieve more.

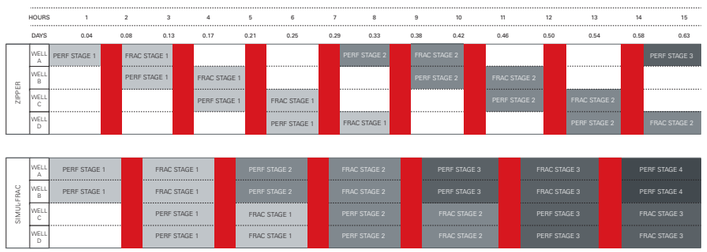
Our Halliburton simultaneous fracturing (simul-frac) operations, which also utilize a single crew, can help you achieve over double the gains in lateral footage, in less time, compared to zipper-frac operations.

During simul-frac operations, efficiencies are amplified to significantly reduce days on location by maximizing gains in lateral footage, as well as gains in savings – allowing you to realize first oil faster, while making a significant return on your investment.

ELIMINATING IDLE WHITE SPACE

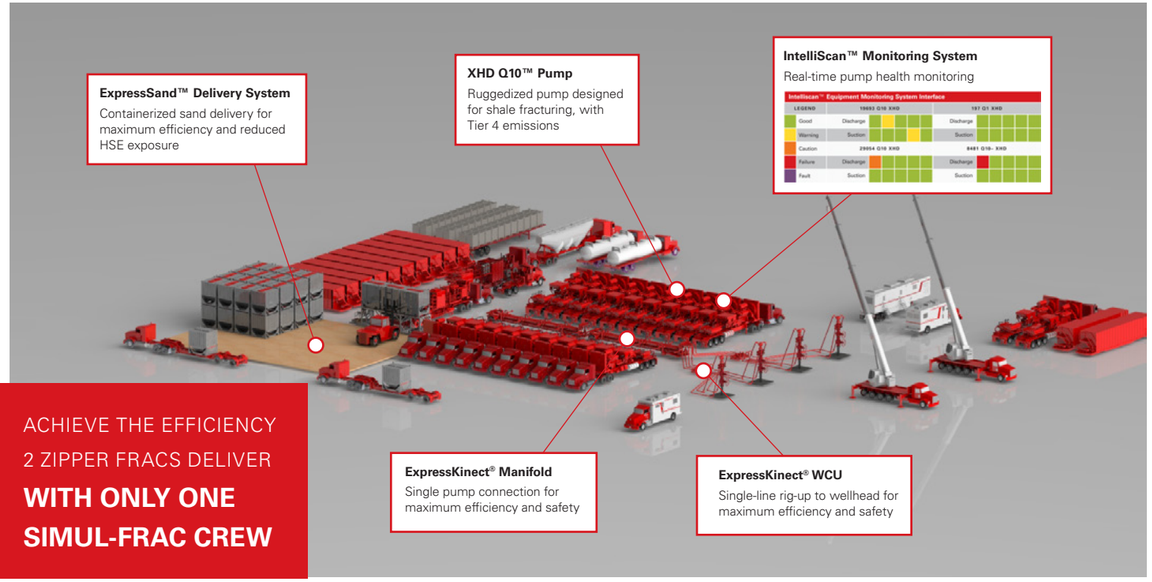
Instead of shaving off a few minutes here and there with zipper-frac operations, simul-frac technology enables you to complete more stages in less time – thus allowing you to reduce time on location.

When performing zipper-frac operations on a four-well pad, you are essentially stimulating two wells, while the other two sit idle. Simul-frac operations eliminate this idle white space by continuously making forward progress across all four wells. During a simul-frac operation, you are pumping down two wells, while perforating the other two, allowing you to complete more lateral footage in the same amount of time compared to current zipper-frac operations.



ACHIEVING PEAK PERFORMANCE

While simultaneous fracturing can double your gains without the need for an additional fleet on location, it takes experience and endurance to consistently achieve peak performance – and not all fleets are created equal. If operations stutter due to logistical challenges, equipment maintenance, or other poor planning and execution choices, their systematic value falls apart.



ACHIEVE THE EFFICIENCY
2 ZIPPER FRACS DELIVER
WITH ONLY ONE
SIMUL-FRAC CREW

Fleet Velocity and Endurance

Our fracturing equipment is known for its horsepower and endurance, which are critical when you are pumping 160 barrels per minute and hundreds of stages per month. From our ruggedized XHD Q10™ pump designed for shale fracturing, to the ExpressKinect® manifold that offers a single-pump connection, the Halliburton fleet offers maximum efficiency and safety across operations.

When managing an operation of this magnitude, there is no room for non-productive time. With multi-well pads, zipper manifolds are often used to reduce cycle times between stages. However, these zipper manifolds add significant cost, equipment, and complexity to operations. The Halliburton ExpressKinect wellhead connection unit (WCU) drastically reduces rig-up time and complexity, resulting in a more efficient and safe operation. The ExpressKinect WCU eliminates up to 85 percent of the high-pressure iron between the manifold trailer and the wellhead. This unit also eliminates the need for zipper manifolds by providing a single-line rig-up capable of reaching multiple wells and handling 120 bpm at 15,000 psi. This means that wellhead exchanges are executed in less than five minutes, thus reducing rig-up complexity and improving cycle times to drive increased efficiency.

A Robust Control System

Managing activity and monitoring data are also critical to effectively keep up with the pace of these operations. Our control system has the flexibility to monitor valve and pump health, along with volume of sand, stages completed, pumping hours, and lateral feet achieved across the entire simul-frac operation – all from a single tech command center.

Simplified Sand Supply

With an operation of this magnitude, you can't afford to be waiting on sand. As your trusted provider of fracture services, and as the largest buyer of frac sand in the marketplace, we can ensure that a constant sand supply and successful last-mile delivery will be our priority.

By leveraging the size and scale of our supplier network, which includes multiple sources in each basin, you'll have inventory buffers nearby to avoid unexpected shortages or disruptions in supply. We also provide streamlined storage and delivery. With the ExpressSand™ delivery system, Halliburton Sand and Logistics Services offers faster offloading, reduced wellsite traffic congestion, and higher on-location storage. In addition to driving efficiencies through the supply chain, this streamlined proppant management system drastically improves health, safety, and environmental (HSE) management and equipment reliability at the wellsite. Compared to traditional pneumatic trailers, which take 45 minutes to an hour to unload, the ExpressSand system was designed to reduce costly unloading times from hours to minutes. By utilizing gravity to transfer proppant directly into the blender, dust generation from transfer belts and pneumatic transfer is eliminated – drastically reducing HSE exposure on location.

If you want to reduce days on location and time to first oil, Halliburton simul-frac operations can help you stimulate more stages across multiple wells at the same time, using a single fleet.

Contact us today or visit us online to learn more about simul-frac operations.

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