

# SwellFrac

## Efficient, economical and optimized solution for re-fracturing well prep

Operators are left with few choices when it comes to prepping their well inventory for re-fracturing. This typically involves running a liner or long string to surface. The time to prepare these wells and associated costs can be prohibitive, as well as the current supply chain issues and rising costs of casing.

Once these wells have been prepped with a new liner or long string, the frac rates are greatly diminished due to the reduced casing size. This problem is further compounded as operators are then forced to use smaller frac plugs and perforating guns.

SwellFrac offers a solution to prep these wells via a surface pumping application to seal off all existing and open perforation tunnels. The patented process involves pumping an aqueous slurry from surface, screening out inside the perforation tunnels. Once done, over pressure is applied while the SwellFrac material swells out forming plugs inside the perforation tunnels. The swelling times in fresh water and BHT >150F are typically a few hours or less. The residual SwellFrac material left in the well bore is cleaned out. The well is now ready for re-frac ops to begin.

SwellFrac's particle distribution size interlocks inside the perforation tunnel forming a solid plug once swollen. Surface testing up to 10,000PSI differential testing shows ZERO leak off. The remaining plugs inside the perforation tunnels are chemical resistant and able to withstand high BHT's. When the well is flowed back and now producing hydrocarbons the SwellFrac plugs remain swollen due to the proprietary SAP and osmotic polymers even in the presence of ZERO water.

Contact us today for more information: <https://www.swellfrac.com/>

## Features

- Prepare the entire lateral in one application
- Rapid swelling time
- Prep wells for re-Frac, water shutoff and P&A
- Fast turnaround from well prep to re-frac
- Pressure seal increases with higher delta pressures
- Rig less preparation
- Super absorbing and osmotic polymer compound

## Benefits

- SwellFrac plugs remain swollen when water is no longer present
- Compatible with acids and high BHT
- Pressure tight seal in the perforation tunnel prevents frac migration behind casing
- Existing well construction stays the same for frac rates, frac plugs and production rates

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Figure 1- SwellFrac 400% Swell Out. All the samples shown were the same size



Figure 2- Swell out times are rapid due to the small particle size



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- SwellFrac's maximum swell out is 400% increase in size
- Proprietary SAP (Super Absorbent Polymer) and osmotic elastomer technology
- Maximum BHT rating of 525°F
- Does not damage casing, tubulars or formation
- Single sack solution



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