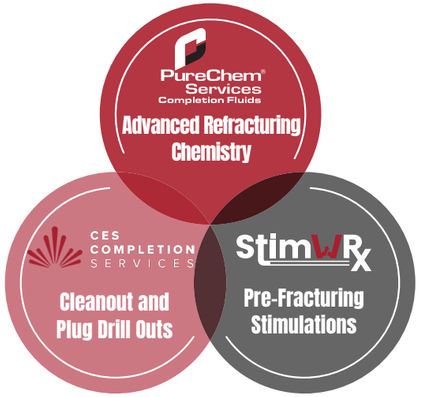
PureChem®
Services
Fracturing & Completions

RE-FRAC

CES
COMPLETION
SERVICES

StimWRx

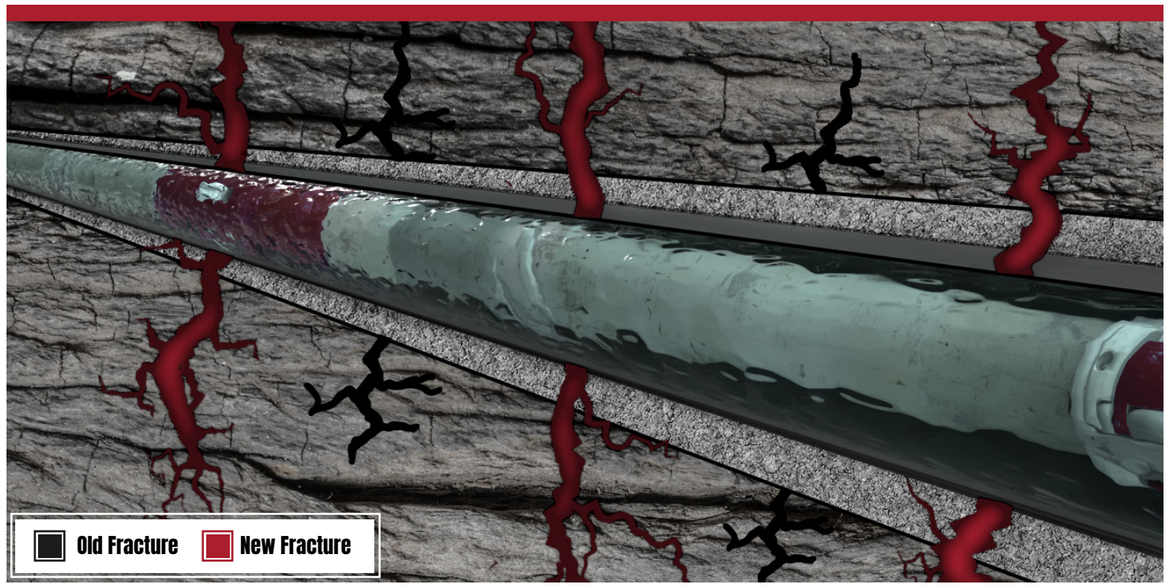
BREAKING GROUND FOR THE NEXT ERA OF FRACING



Accessing New Rock

As operators look to maximize output from existing assets, refracturing is gaining traction as a method for revitalizing wells with declining production. Refracturing leverages advanced diagnostics, unique chemistries, and formulating solutions to re-establish connectivity with the reservoir. By accounting for changes in reservoir conditions and using extensive production data, refracturing can effectively target bypassed reserves or untreated zones, unlocking new levels of productivity without the need to drill new wells.

Refracturing techniques can revitalize production by addressing damage mechanisms and enhancing petrophysical and geomechanical factors. With optimized strategies, refracs often exceed initial completion results. Case studies in the Journal of Petroleum Technology (JPT), show refracs can deliver 50 to 80% higher EUR, with some cases showing over 100%, even outperforming modern infill wells.



Powering Innovation Through Integrated Expertise

CES promotes a unified approach among its various divisions including Fracturing, Stimulation and Completions to provide a multi-disciplinary approach to wellbore revitalization. By combining PureChem Frac's advanced fluid systems, STIMWRX's stimulation services and CES Completion Services' wellbore cleanout expertise, we eliminate operational gaps and optimize every stage of a refracturing program. This unified approach maximizes production, reduces downtime, and enhances recovery, giving operators a more efficient way to revitalize wells.

PureChem
Advanced Refracturing Chemistry

Customized Chemistry

PureChem formulates friction reducers, high-performance fluid systems, and designed diverters tailored for each well's unique needs, backed by comprehensive water compatibility and lab testing.

Enhanced Reservoir Contact

Our refracturing solutions help access untreated rock volumes through the design and implementation of fracturing fluid systems that optimize frac locations, frac dimensions and frac placement.

STIMWRX
Pre-Fracturing Treatments

Near-Wellbore Optimization

STIMWRX uses proprietary acid enhancers and chemical systems to dissolve pore throat plugging, break down residual fluids, and improve near-wellbore conductivity by reducing pore throat capillary pressures.

Damage Remediation

Target damage mechanisms such as scale buildup, trapped completion fluids, and phase trapping to eliminate flow restrictions and maximize recovery potential.

CES Completions
Pre & Post-Refracturing Cleanouts

Targeted Cleanout Solutions

CES uses high-viscosity friction reducers and tailored cleanout chemistries ensuring a thorough wellbore cleanout, removing debris and optimizing pump efficiency for long-lasting well performance.

Customized Cleanout

From debris to scale and paraffin buildup, our advanced cleanout chemistry prepares the wellbore for smooth production with water recycling capabilities requiring less disposal.

The Advantages of Refracturing

Extend Well Life, Maximize Recovery

Refracturing breathes new life into existing wells; this approach unlocks trapped hydrocarbons, often restoring or exceeding initial production rates. The result is a sustainable method that extends asset value without the need for new drilling.

Lower Costs, Higher Returns

Leveraging existing wellbores and infrastructure allows for increased production at a fraction of the cost of drilling new wells. Refracturing maximizes ROI in a landscape with fewer Tier 1 locations.

Smarter, Sustainable Operations

Refracturing reduces surface disturbance, emissions, and water usage, minimizing environmental impact while boosting efficiency This is a responsible and cost-effective way to enhance production.

Combat Production Decline

Even the best wells decline over time, producing only a fraction of their early rates. Refracturing targets stranded hydrocarbons, restoring flow and optimizing long-term production.

A Cost-Effective Alternative to New Drilling

New wells come with high upfront costs, regulatory hurdles, and environmental scrutiny. Refracturing offers a faster and more efficient path to increased output without the footprint of new development.

Advanced Technology for Maximum Recovery

Today's techniques reach deeper into untapped rock volumes, optimizing well performance in ways once thought impossible. The result is more hydrocarbons, more efficiency, and more value.

Key Chemistries Empowering Performance

PureChem's commitment to innovating completions chemistry continues to help advance and push well productivity.

HVFRs

HVFRs (High Viscosity Friction Reducers) are designed to optimize fluid dynamics across a variety of water salinities for Re-Fracs. They are designed for significantly diminishing friction pressures, enhancing the efficiency and efficacy of refracturing in wells with varying brine conditions.

Gellants

Gellants enhance refracturing by providing fast-hydrating biopolymer suspensions that ensure efficient dispersion and rapid hydration in various water sources, optimizing the fracturing fluid's viscosity and improving the proppant's placement.

Acidizing

Acidizing involves pumping acid into the well to dissolve limestone, dolomite, and calcite cement between the sediment grains of the reservoir rocks as well as mineral deposition during prior production, which can increase the permeability of the rock and improve the flow of oil and gas.

Sand Consolidation

PropCure acts as a sand consolidation agent, enhancing well productivity by forming a cross-linked coating on proppant grains to prevent flowback, prolong equipment life, and maintain fracture conductivity for improved oil and gas flow.

Enhancing Surfactants

Flowback enhancing surfactants reduce surface tension, which allows for more efficient flowback of the fracturing fluid, enhancing the cleanup post-fracturing and increasing the flow of hydrocarbons.

Scale Inhibitors

Scale inhibitors are used to prevent the formation of mineral scale, which can reduce well productivity by clogging pores and fractures.

Iron Control

Iron control prevents the precipitation of iron compounds, which can block flow by settling in the wellbore and fractures or by forming scale on the rock surfaces.

Biocides

Biocides are crucial for controlling bacterial growth in fracturing fluids, which can lead to biofouling and souring of reservoirs as well as degradation of fracturing fluids and additives.

Clay Stabilizer

Clay stabilizers prevent clays within the rock from swelling and migrating, which can block pore spaces and reduce permeability. They are crucial in maintaining the integrity of the formation during the refrac.

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