

BOOST™ Restimulation PRODUCTION SOLUTIONS

OVERVIEW

Halliburton Production Solutions proudly introduces an innovative chemical solution specifically designed to address the intricate demands of Enhanced Oil Recovery (EOR) within mature field assets. At the heart of this treatment design is our flagship product, BOOST™.

The revolutionary impact of BOOST™ on EOR strategies is undeniable. Its intentional design targets secondary remediation and restimulation, all while maintaining a low level of service intensity. This strategic approach, fortified by the convergence of advanced methodologies, reshapes the very essence of EOR practices.

BOOST™ derives its strength from an intricate blend of methodologies: an in-depth analysis of well-specific Rate Transient data coupled with the integration of basin-

specific regression modeling. These techniques draw upon empirical pressure-volume treatment responses, forging a cohesive synergy that empowers BOOST™ with an unparalleled level of precision. This precision translates into the exact placement of specialized production-enhancing additives, thereby revolutionizing the landscape of EOR possibilities and setting new standards of treatment.

In summary, Halliburton Production Solutions elevates EOR to unprecedented heights through BOOST™, showcasing our commitment to innovation, excellence, and the optimization of mature field assets.

APPLICATIONS

- Mature Assets and P&A Candidates
- Remediation of common near wellbore damage mechanisms
- Well production curve characterized by steady decline

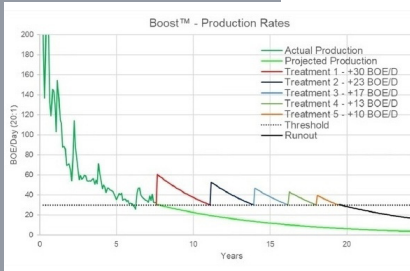
FEATURES

- Tailored chemistry for lithology and damage
- Active pressure management for unconventional coverage
- Reservoir-specific treatments.

BENEFITS

- 50%-100% Production Enhancement
- Well Life Extension/ Delayed P&A
- Rig-less intervention with minimal footprint and shut-in time

BOOST™ Tailored technology to boost near wellbore connectivity and well production with a focus on low service intensity and minimal shut in time.



BOOST™ Well Maintenance



BOOST™ Case History #1



BOOST™ Case History #2

- Low service intensity, meaning no workover equipment on location to complete the full scope of design.
- Treatment flexibility allows for pumping through tubing, down the annulus or bullheaded down the casing. The specific well and tubular settings dictate what is feasible.
- Customized chemical packages consisting of additives included by not limited to relative permeability modifiers, paraffin solvents/inhibitors, mineral and organic acids, MicroParticle™ materials, oxidizing and enzyme breakers, and ultimate surfactants.
- Near-wellbore stimulation utilizing the latest generation of acid systems, combined with specialty chemistries specifically chosen for the candidate well/s being treated.
- Far-field stimulation with an emphasis on water conformance with fluid system engineering.
- Proppant Frac perm restoration focusing on the removal of “Gummy Bears” from FR damage and the unwanted migration of fines and sands.
- Engineering support to implement a well specific pressure management plan to maximize the distributive energy to the induced propped reservoir created during the primary completion.

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- Halliburton Production Solutions specializes in novel chemical solutions and systems for mature reservoir challenges. Through dedicated research and development, we have created exclusive products to address specific reservoir issues. These proprietary formulations, accessible only through the Halliburton supply chain, stand out for their effectiveness in handling mature reservoir challenges. Our commitment to innovation is a distinguishing factor, providing operators with unique tools that excel in reservoir revitalization. Operational excellence is emphasized, driven by a team of experienced personnel dedicated to safety and service quality. This ensures seamless project execution and customer satisfaction.

- Technical expertise lies in assessing unconventional well performance and enhancing production while maintaining economic viability. Our design methodology, coupled with tools such as diagnostic plot analysis and reservoir drainage flow regime knowledge, aids candidate selection and predictive capabilities. Precise treatment designs and economic models are developed based on lab studies and insights, followed by thorough post-treatment analysis. Our in-house laboratory and collaborations enable tailored protocols for harnessing reservoir fluid potential. These services cover fluid characterization, formulation, interfacial tension measurement, and corrosion testing, all of which exceed industry standards and deliver innovative reservoir management solutions. Overall, Halliburton Production Solutions focuses on proprietary products, flawless operations, technical expertise, and advanced laboratory capabilities positions us as a leading partner in addressing complex reservoir challenges with expertise and innovation.

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TAILORED TECHNOLOGY TO BOOST NEAR WELLBORE CONNECTIVITY AND REMOVE DAMAGE



PROVEN PROPRIETARY REGRESSION ANALYSIS DEFINES MATERIAL BALANCE TREATMENT VOLUME



50-100% PRODUCTION ENHANCEMENT, LOW CAPITAL EXPENDITURE, WELL LIFE EXTENSION, AND AVERAGE PAYBACK IN 3 MONTHS



LOW SURFACE SERVICE INTENSITY WITH A SMALL FOOTPRINT (3 PIECES OF EQUIPMENT)



EFFECTIVE PRESSURE MANAGEMENT ENSURES COMPLETE COVERAGE OF CONVENTIONAL AND UNCONVENTIONAL COMPLETIONS



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