FRACProcess℠ Service

FOR PRECISE CONTROL OF FRICTION REDUCER CHEMICALS

OVERVIEW
The FRACProcess℠ service offered by Multi-Chem is a unique monitoring method that optimizes the functioning of friction reducers (FRs), through the precise control of the right chemical components, at the right time and the right dosage. This combined approach assures efficient performance of completions operations in the field, especially when applied to certain unconventional well operations, like slickwater hydraulic fracturing and coiled tubing stimulation applications, where chemicals are added to water to increase fluid flow. The FRACProcess service is particularly helpful in overcoming pipe friction challenges commonly faced by operators when treating multiple clusters in longer laterals and high salinity conditions, which can drain valuable fresh water resources for dilution purposes.

HOW IT WORKS
The FRACProcess service is comprised of a “single” FR system to provide on-location quality assurance and control of chemical usage during oil and gas completions operations via monitoring software. This technique is applied for the entire treatment duration, enabling real-time dosing adjustments, as needed, based on immediate feedback of actual performance data. The advanced, engineered solution allows operators to fine-tune their dosage plan in response to the full range of water conditions potentially encountered in a given drilling environment—instead of making assumptions about the wellsite’s water quality, and then selecting an FR that will perform through the worst-quality water they expect to encounter, potentially overdosing with FR.

ADVANTAGES
The FRACProcess service optimizes FR performance throughout all stages of the completions project, by its capability to adjust FR concentration and quality on-the-fly, overcome water quality issues and respond to increases or decreases in pressure in real time. It aids in reducing an asset’s downtime due to bad water quality and/or FR incompatibilities when multiple chemicals are used on the same fracturing project. It also allows for a reduction in overall chemical usage to reduce friction with both fresh water and up to 100% produced water sources. Furthermore, it helps to recycle produced water by reuse in the frac fluid, eliminating the cost of expensive waste-water disposal.

APPLICATIONS
» Unconventional well completions operations
» Slickwater hydraulic fracturing
» Coiled tubing stimulation

FEATURES
» Single friction reducer system
» Real-time dosing adjustments
» Accurate chemical quality and concentration control
» Continuous monitoring of chemical effectiveness

BENEFITS
» Improve performance of completions operations
» Ensure chemical compatibility
» Manage friction reducer dosage rate on-the-fly
» Maximize reduction of pipe friction
» Quickly react to unpredicted variances in water quality
» Recycle produced water, eliminating waste water disposal
» Prevent over-treating, over-specifying and over-spending
For more information, contact your local Halliburton representative or visit us on the web at www.halliburton.com/multichem

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