Offshore StimPlus Services

Long-term flow assurance from chemicals added to a stimulation treatment
Well production following a stimulation can lead to challenges such as inorganic and organic deposition, corrosion, and reservoir souring. With Baker Hughes StimPlus™ flow assurance services, you can proactively address these challenges during your well’s stimulation phase—delaying or even eliminating costly production interruptions, workovers, and well interventions.

As the only oilfield services company with both offshore stimulation vessels and flow assurance chemical expertise, Baker Hughes is uniquely qualified to deliver an integrated flow assurance solution. With the StimPlus service, specially engineered, slow-release solid flow assurance chemicals are pumped into the reservoir as part of fracture, gravel pack, or another stimulation treatment—protecting against production flow problems.

By combining compatible, optimized stimulation additives and inhibitors with long-term well monitoring, StimPlus services can help you manage the complete life cycle of stimulation operation, from pre-job studies through production monitoring and enhanced recovery. And, for deepwater and ultra-deepwater wells, a specially engineered solid substrate ensures a reliable application in high-pressure environments.
Improve offshore economics by thinking ahead

In a traditional well development program, stimulation and remediation are separate, isolated events that can lead to inefficiencies that multiply over time. When designing StimPlus services, Baker Hughes engineers consider the life of a well—or a whole field—as a holistic continuum that extends beyond the initial completion.

First, Baker Hughes reservoir experts assist in optimizing the stimulation treatment for your well’s specific reservoir mineralogy, lithology, production fluids, and stimulation source water. These studies look beyond the stimulation plan, using field history and offset well experiences to predict post-stimulation problems such as paraffin, asphaltene, and scale deposition.

By including carefully selected and dispensed chemical systems with an optimized stimulation treatment, Baker Hughes can deliver not only the desired production enhancement but also a significant reduction in operational expense and lifting costs associated with conventional production chemical squeezes or injection. In fact, our post-stimulation monitoring assessments aid in optimizing subsequent well treatments by measuring stimulation effectiveness and inhibitor residuals. This continuous testing is how we learned that one inhibitor in a land-based application of the StimPlus service continued to prevent scale deposition for more than five years, saving an operator more than USD 500,000 in remedial costs and production losses in just the first three years.
Reduce risks with integrated services
Wide-ranging expertise in both production chemicals and stimulation makes Baker Hughes particularly attuned to the issue of compatibility—with stimulation fluids, as well as formation fluids and rock. If you use one service provider for stimulation and another for production chemicals, a common outcome is that neither company is willing to take responsibility for the total result.

You need a high level of coordination and product compatibility to ensure success. This is why Baker Hughes stimulation and chemical experts work together in the lab and in the field. By the time the job is performed, you’ll notice the smooth, trouble-free integration of stimulation services and chemical management. Like any true synergy, the rewards are multiplied. Coordinated StimPlus services can improve virtually any stimulation program.
reduce risks and improve economics
Optimize production with a wide selection of inhibitors

StimPlus production enhancement services include a wide variety of field-proven, chemically compatible additives:

- Bacteria control systems which are registered with the U.S. Environmental Protection Agency (EPA), protect against bacteria-induced corrosion and reservoir souring after the treatment.
- Scale, paraffin, asphaltene, and salt inhibitors to ensure constant production flow and prevent deposition in the formation and wellbore.
- Corrosion inhibitors to protect downhole and surface equipment and tubulars.

Sorb™ and Sorb Ultra inhibitors last longer than conventional liquid flow assurance chemistry because, as a solid, these chemicals slowly desorb into the appropriate fluid. For example, the Sorb products for scale desorb into the water phase, whereas those for paraffin and asphaltene inhibition desorb into the oil phase. In contrast, liquids begin flowing back with the initial production, regardless of solubility.

And, for deepwater applications, high-strength Sorb Ultra particles are engineered to serve as a conventional, medium-strength proppant but with the added benefit of long-term inhibition, making them ideal for closure pressures greater than 8,000 psi. As with Sorb products, the Sorb Ultra inhibitor is placed in the formation as part of the proppant pack, and the chemicals are only released when needed.

To learn how StimPlus production enhancement services and Sorb chemistry can reduce risks and improve economics over the full life cycle of your offshore assets, contact your Baker Hughes representative today.