

# Scalechek® Scale Prevention Service

Maintain and improve long-term oil production

## FEATURES AND BENEFITS

- Compatible with most brines and many common stimulation fluids, including friction reducer and borate-crosslinked fracturing fluids.
- Anionic additives designed to provide broad compatibility across a wide range of fluid systems and additives.
- Stable in high salt concentrations, cold weather, and temperatures between 300°F to 460°F.
- Effective at low concentrations (0.5 to 1.0 gal/1,000 gal) in most reservoirs.

## Overview

During stimulation, water is injected into the wellbore at high pressures. This results in surface water coming into contact with reservoir water. The mixing of these waters can cause minerals to precipitate and form scale deposits. Following a hydraulic fracturing treatment, as fluids are produced, changes in temperature, pressure, and chemical composition can also result in scale.

Operators often ignore this phenomenon because they don't think they will have a problem, or they choose to treat it during production, as opposed to being proactive during the initial treatment.

With scale inhibitors, you can help prevent the formation of mineral deposits within the wellbore and on production equipment, significantly improving production rates. The Scalechek® scale prevention service is a stimulation chemical engineered to prevent scale formation and helps improve long-term oil production in various reservoirs, including sandstone, carbonate, tight-gas, and shale.

Coupled with our in-house chemical expertise and testing capabilities, the Scalechek service provides effective scale management that helps operators maintain well productivity, prevent damage to equipment and ensure the long-term success of the well.

## Control and prevent long-term scaling

In many reservoirs, formation water contains dissolved minerals such as calcium carbonate ( $\text{CaCO}_3$ ), strontium sulfate ( $\text{SrSO}_4$ ), and barium sulfate ( $\text{BaSO}_4$ ); these minerals can interact with the treatment fluids to produce carbonate and sulfate scales. Scale can collect on the wellbore and production equipment, causing blockages and reduced operational efficiency.

Scalechek effectively inhibits the formation of sulfate and carbonate-based scale. It provides excellent control of barite scale in presence of iron and is efficient at low concentrations, in high salt concentrations, cold weather, and high temperatures.

To provide effective protection in varying applications, Scalechek is available in liquid and encapsulated versions.

## Advanced testing to improve flow rate and wellbore integrity

Our scale inhibitors are compatible with most brines and common stimulation fluids, including friction reducer and borate-crosslinked fracturing fluids. To help determine inhibitor effectiveness and performance, our experts analyze produced brine to determine the amount of an inhibitor present. This can help predict when a new scale inhibitor squeeze is needed to maintain long-term protection.

The Scalechek family of scale inhibitors consists of anionic-formulated products designed with a constant release rate to prevent long-term scaling in wellbore and production equipment. All have an anionic formation designed to block long-term scaling in the wellbore and equipment. Each product is tested for compatibility with Halliburton products, especially when used with other materials, such as cationic chemicals.

Using water composition data, temperature and pressure, our experts can predict the type of scale that may form and provide the right Scalechek product and dosage to prevent scale-related issues. By reducing or eliminating scale formation, our Scalechek products help improve production rates and reduce equipment damage, resulting in increased operational efficiency and critical cost savings.

## Scalechek Product Offering

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| Scalechek® ELT-F | Engineered to improve long-term oil production in sandstone, carbonate, and shale reservoirs.              |
| Scalechek™ LP-70 | Effective in preventing the formation of many common scales, such as calcite, gypsum and barite.           |
| Scalechek® LP-50 | Engineered as an anionic formulation designed to prevent long-term scaling.                                |
| Scalechek® LP-65 | Advanced testing brings the value of predicting when the next scale inhibitor service should be conducted. |
| Scalechek® LP-75 | Effective in inhibiting the formation of barium, strontium and calcium sulfate scales.                     |
| Scalechek® LP-85 | Compatible with a wide range of Halliburton scale inhibitors for long-term oil production.                 |

**For more information, contact your local Halliburton representative or visit us on the web at [www.halliburton.com](http://www.halliburton.com)**

Sales of Halliburton products and services will be in accord solely with the terms and conditions contained in the contract between Halliburton and the customer that is applicable to the sale.

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