

## Production Chemicals

# Saltwater disposal solutions

Maximize injection rates and control costs with customized chemical solutions and superior service

## FEATURES

- Specialty chemicals for water quality, scale inhibition, solids minimization, corrosion prevention, and phase separation, including multi-application products
- Expertise in SWD-specific water quality, flow assurance, and asset integrity
- Onsite service to help ensure program performance and improve operations
- Automation for monitoring chemical volumes and optimizing injections
- Experience with central gathering facilities and SWDs across U.S. basins

## BENEFITS

- Maximized asset value and improved injection well performance
- Fewer tanks, containments, and pumps needed with combination products
- Inventory management and proactive cost control with tank monitors and injection controllers
- Efficient transitions and customized technical applications with dedicated account teams

## Overview

Halliburton Multi-Chem focuses on maximizing operators' injection rates while controlling operating costs in treating saltwater disposal (SWD) wells. Safely and responsibly disposing of produced water presents many challenges and risks. These include:

- Poor water quality with elevated iron sulfide content
- Solids limiting throughput
- Solids and scale accumulation requiring frequent mechanical remediation
- Poor fluid separation leading to oil being injected downhole
- H<sub>2</sub>S presence increasing safety risks
- Oxygen and bacteria levels contributing to corrosion and solids formation

Multi-Chem addresses these challenges with chemical application expertise and superior service. This begins with a detailed assessment of your operations and the fluids present at your SWD well. We develop a custom risk assessment and recommend comprehensive solutions before implementing the



Photos show improvement in water quality following continuous treatment with an iron sulfide dissolver at a customer's SWD well.

treatment program. We then monitor operations and seek opportunities to improve performance and control costs.

Our product portfolio covers the full spectrum of treating needs. This includes:

- Solids removers to improve water quality
- Corrosion inhibitors, biocides, and oxygen scavengers to extend asset life
- Scale control chemistries to maximize throughput
- Phase separation products to salvage sellable oil
- Surfactants to enhance injection

Tank level monitors and adjustable rate pumps, integrated with our in-house digital chemical management platform, track inventories, plan deliveries, reduce manpower costs, and limit HSE exposure through remote data collection and injection rate adjustments.

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**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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