

Midstream Capabilities

SUPERIOR SERVICE AND CHEMICAL APPLICATIONS EXPERTISE TO MAXIMIZE MIDSTREAM ASSET VALUE

Founded in 1993, Multi-Chem, a Halliburton Service, has been a leader in providing specialty chemicals and customized solutions for integrity management, flow assurance, enhanced oil and gas recovery, water management, fracturing, and pipeline treatments. Multi-Chem has provided chemicals and services to more than 30,000 producing oil and natural gas wells and more than 5,000 miles of pipeline across North America.

Multi-Chem is structured to provide the personnel, chemistries, and expertise to meet potential challenges and overcome them. We are experienced in all aspects of midstream, including gathering systems, gas processing, transmission piping, product storage, and product transportation. We understand that service is critical to an effective chemical program, which is why we have experienced, local people who collaborate with our customers to reduce costs and enhance production.

PRODUCTS

- » Asphaltene inhibitors
- » Microbial control
- » Corrosion inhibitors
- » Defoamers
- » Friction reducers
- » H₂S and oxygen scavengers
- » Gas hydrate inhibitors
- » Iron sulfide dissolvers
- » Paraffin deposit prevention and removal
- » Phase separation
- » Scale inhibitors
- » Solids control

SERVICES

- » Certified Acrolein technical specialists
- » Chemical program management
- » Customized product solutions
- » Field testing
- » Injection optimization
- » System modeling and flow assurance engineering

MULTI-CHEM ENTERPRISE ACCOUNT MANAGEMENT PLATFORM

Analyze Performance eExecution (APX) is an enterprise account management tool designed to digitize common field activities to provide operators real-time transparency needed to see chemical program data to foster synergies, react timely to dynamic changes, and ultimately make better decisions.

MIDSTREAM RESULTS

The following photos demonstrate the results one Multi-Chem solution (AcroClear®, an acrolein-based iron sulfide dissolver and H₂S scavenger) provided midstream operators, who are looking for effective solutions to flow assurance and asset integrity challenges.



MIDSTREAM SOLUTIONS

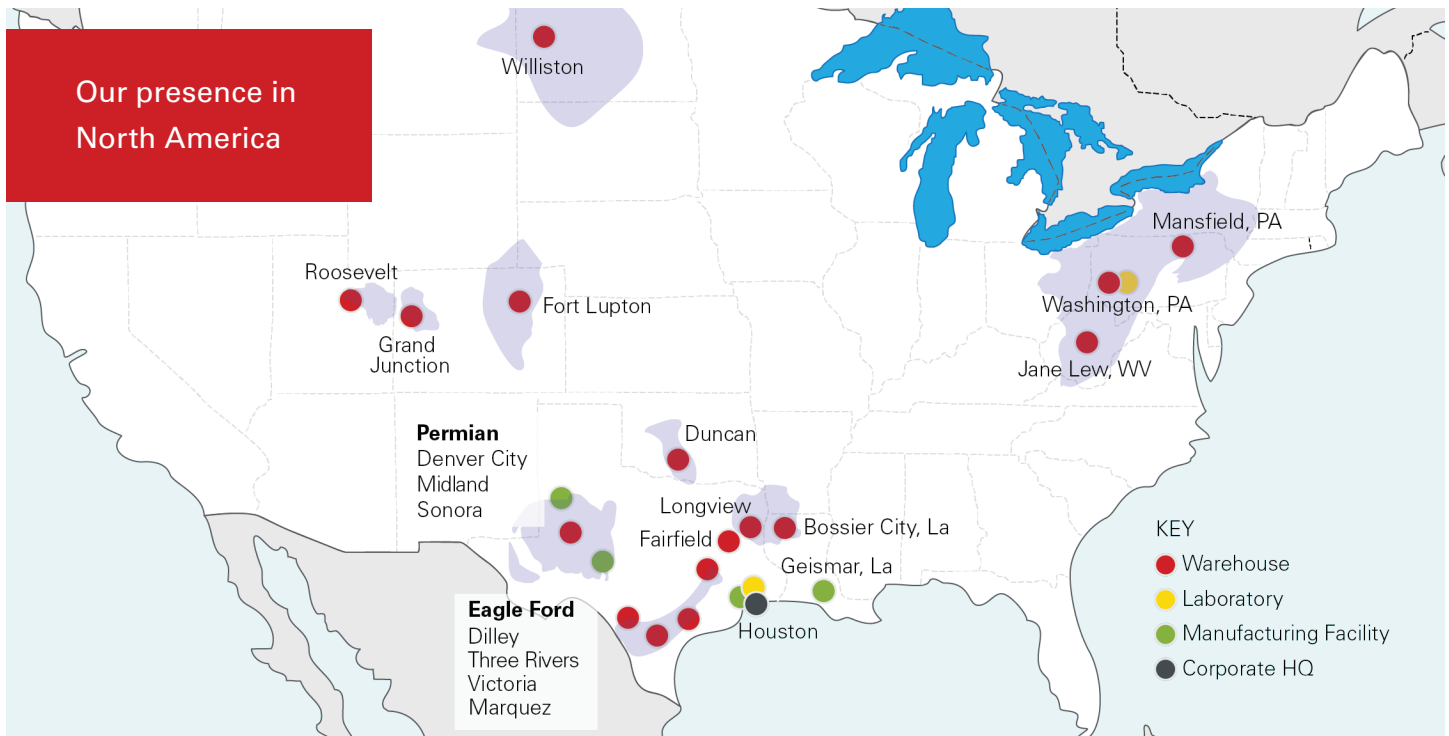
Multi-Chem brings innovative technologies and customized solutions that help reduce costs and:

- » Provide quality flow assurance
- » Increase production by providing optimum treatment levels
- » Enhance the life of the asset with preventative maintenance
- » Eliminate surprises by addressing problems before they occur

SAFETY IS A CORE VALUE

Health, safety, and environment (HSE) is fundamental to Multi-Chem's business strategy and is among our core values. The focus on our Journey to ZERO is paramount to our operations and is viewed as our license to operate.

We deliver superior service and applications expertise to maximize asset value for our customers.



LABORATORY SUPPORT

Multi-Chem’s analytical laboratory is housed within the Global Technology Center in Houston, TX. This facility performs routine analysis as well as non-routine testing, new product development, and chemical synthesis.

Having analytical and research capabilities in one location helps us meet the high demand for analytical services in a timely manner and ensure that all necessary tests can be performed at one location by a dedicated, unified team.

GENERAL ANALYTICAL SERVICES

We perform all common analytical services required to understand field conditions and evaluate chemical program performance:

- » Crude oil analysis
- » Quantitative solids analysis
- » Complete water analysis (inorganic and organic)
- » Corrosion coupon analysis testing
- » Scale testing
- » Scale prediction modeling
- » Corrosion and scale inhibitor residual testing

RESEARCH AND ADVANCED ANALYTICAL SERVICES

Specialized analytical work, research and product development is performed by experienced personnel:

- » Product performance testing
- » Fluid and material compatibility testing
- » Biotechnology
- » Corrosion
- » Flow assurance
- » H₂S control
- » Phase separation
- » Scale inhibition



GLOBAL TECHNOLOGY CENTER

The Houston center includes specialized equipment such as (from left) Ion Chromatography for organic acids; X-Ray Diffraction for solids ID; and SEM-EDX for solids visualization.

For a specialty chemicals treatment program characterized by superior service and chemical application expertise that maximizes the value of your assets, contact us at multichem@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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