

# Solving Problems in Midstream Gathering Pipelines

As one of the world's largest specialty chemical providers, ChemTreat is strategically positioned to meet the current and future needs of the Midstream Gathering Pipeline industry. Our customized piping solutions address the entire spectrum of applications, including H<sub>2</sub>S scavengers, demulsifiers, biocides, scale and corrosion inhibitors, surfactants, paraffin inhibitors, and specialty chemicals. ChemTreat's unique position as a full service company to the Midstream Oil and Gas industry provides the Plant Operator with the resources to maximize throughput, equipment integrity and operational reliability.



Poor chemical treatment in the gathering lines can be quite costly. Remediating excessive pigging is labor-intensive and can create difficult slugs that must be handled at the processing plant. Excessive microbiological growth can cause high corrosion, requiring premature replacement of the gathering line. The cost to replace a line can easily exceed \$1M/mile, depending on factors such as line size and location. These issues can be minimized with proper treatment and application.

In most cases, the Midstream producers do not have the time or expertise to properly mitigate these risks. Therefore, producers cannot afford to choose the wrong chemical treatment partner to manage and optimize the chemical needs of their system.

ChemTreat has built lasting relationships with a wide range of valued customers over the years. We have developed a deep understanding of the unique problems that our customers face on a daily basis. As a result, we can create tailored treatment programs that are proven to protect your assets, keep operating costs manageable and maximize the efficiency of critical processes. Our unparalleled expertise allows us to prevent and troubleshoot problems before they adversely impact our customers' ability to accomplish their core mission.

## Critical Systems Need Expert Care

Hydraulic fracking has revolutionized the natural gas industry. Technological advances have enabled the industry to recover natural gas at rates never before seen. However, these new sources of natural gas also offer new challenges. In many cases, the composition of the gas is quite different from gas produced just a few years ago. The pipeline chemistry often has not changed along with the gas composition. As a result, operators of gathering lines and process plants often experience new problems and issues, including elevated hydrogen sulfide levels, excessive pigging and slugs, corrosion, and scale. Once we adjust the pipeline chemistry to compensate for changes in gas composition, these issues become less problematic.





## Proven Results

### Condensate Separation

Multiple compressor stations located in the Woodford Shale formation experienced problems separating condensate from produced water. ChemTreat sampled the condensate and developed a unique demulsifier that effectively separated the water. This solution resulted in the recovery of over 40,000 barrels of condensate per month.



### Gas Recovery

A producer located in the Bakken sent over 1,000,000 cubic feet of gas per day to flare because of excessive H<sub>2</sub>S levels. ChemTreat developed a unique product capable of reducing the H<sub>2</sub>S to levels that enable gas recovery. This solution resulted in a net revenue increase of \$900,000 per year for the producer.

## Applications Specific to Midstream Pipeline



- Scale & Corrosion Inhibitors
- Paraffin Dispersants
- H<sub>2</sub>S Scavengers
- Surfactants
- Demulsifiers
- Biocides
- Specialty Chemicals
- Cleaners
- Corrosion Monitoring
- Feed & Control Equipment

