In the face of fluctuating gas prices and constant changes in gas compositions, midstream players must continually find ways to maximize their throughput without compromising profit. As one of the world’s largest providers of industrial chemical solutions and services, ChemTreat is strategically positioned to help customers manage these industry challenges.

Critical Systems Need Expert Care
The conditioning and processing of natural gas presents many challenges. ChemTreat understands these challenges and can develop solutions to improve the reliability of your operations.

SLUG CATCHER
The proper operation of the inlet separator and slug catcher is critical to the overall performance of the plant. Sudden slugs caused by pigging can make it difficult to develop a clean water/hydrocarbon break. Consequently, foaming issues may develop, and liquids can be carried out with the gas stream. ChemTreat has accumulated a wealth of experience and developed unique products and solutions to help with these challenges.

AMINE UNIT
The amine unit is the heart of a sour gas plant. The efficient removal of H2S and CO2 are critical to meeting throughput expectations. Unfortunately, problems such as foaming, corrosion, amine degradation and filter fouling often occur during the sweetening process. ChemTreat is fully capable of addressing these challenges with solutions customized specifically for your system.

GLYCOL UNIT
Dehydration is necessary to ensure water does not condense in the sales gas pipeline. If the glycol unit does not operate properly, meeting sales gas specifications can be difficult. Foaming, corrosion, and reboiler issues are the most common challenges encountered. ChemTreat understands the unique needs of the dehydration process and can develop effective programs to minimize issues so that they do not become operational problems.

COOLING & HEAT EXCHANGE
Pressure and temperature must be tightly controlled throughout the gas conditioning process so the desired hydrocarbons can be separated per design conditions. Fouled heat exchangers will rob a plant of its efficiency over time. ChemTreat is best-in-class at designing and implementing strategies designed to keep cooling and heat exchanger systems operating efficiently and effectively.
**Improved Corrosion Rates**

A south Texas gas processing facility suffered from 80+ mils/year corrosion rates in the amine system. The corrosion by-products led to numerous operational problems. After identifying and trending the issue using advanced datalogging capabilities, ChemTreat implemented a solution strategy. Within four weeks of implementation, the corrosion rates dropped to <2 mils/year. Operations efficiency improved, but more importantly in this case, the useful life of the equipment increased significantly.

**Propane Recovery**

A large gas processing plant located in the Southern U.S. experienced a loss of refrigeration capacity resulting in increased gas inlet temperatures to the cryogenic demethanizer. These problems reduced deethanizer overhead condenser capacity. ChemTreat found the overhead condensers were greatly fouled and recommended an online cleaning program. Within six weeks, the overall reflux rate improved drastically, resulting in $21,000/day in savings.