

Solutions for the  
**GAS PROCESSING  
INDUSTRY**



Water Management and Process Treatment  
To Increase Productivity and Profit

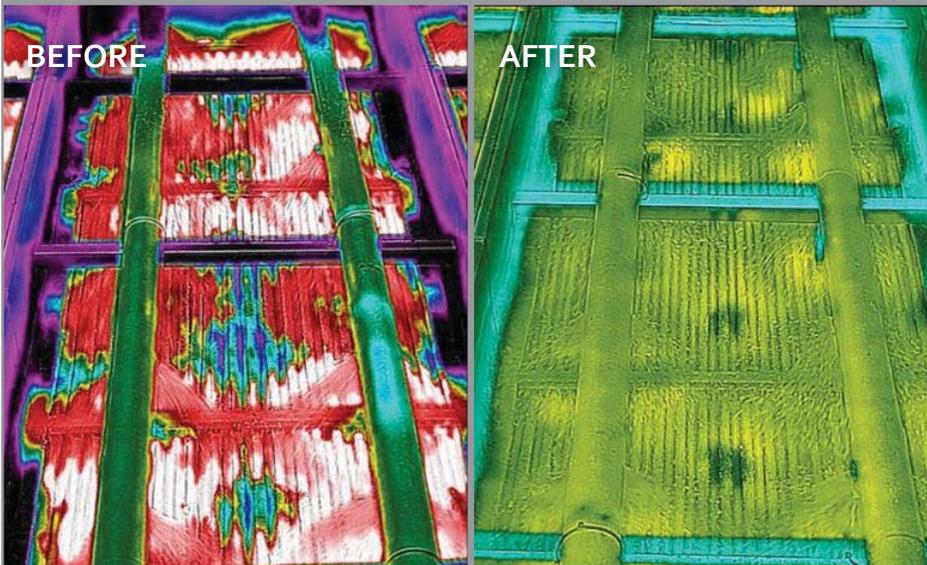


A gas processing plant in Mont Belvieu, TX had developed severe scale buildup on the tubes of their WSAC cooling tower. The scale buildup inhibited the designed heat transfer and caused the system to operate with less efficiency. ChemTreat corrected the situation by utilizing a non-invasive, on-line cleaning program to remove the scale without unscheduled downtime on the unit. The result returned the system back to design cooling efficiency and operation.

### WSAC TUBE IMAGES



### FLIR HEAT IMAGES



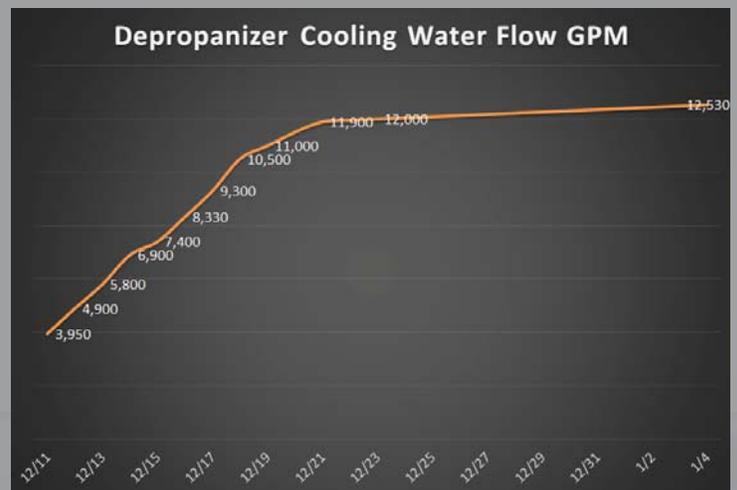
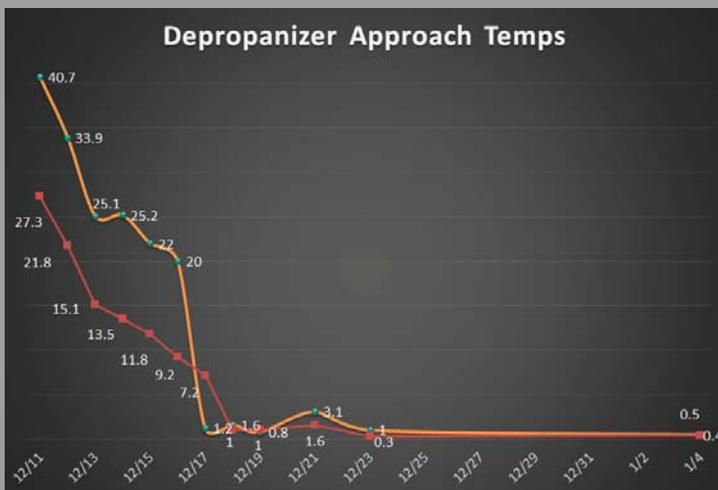
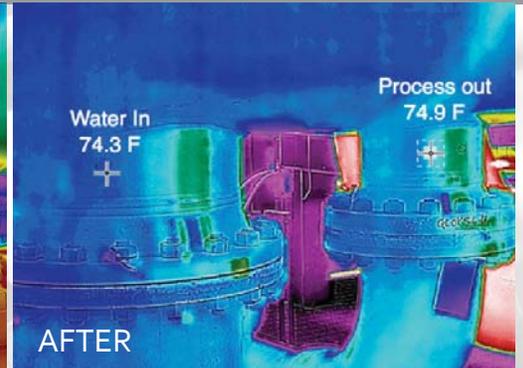
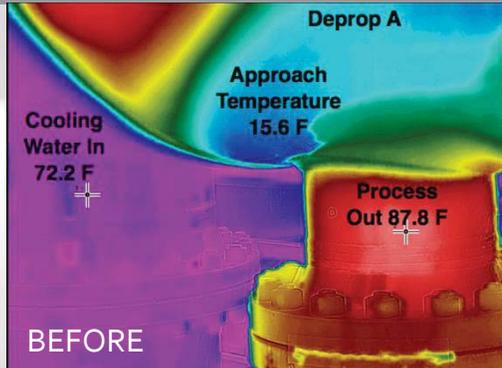
The WSAC cooling water treatment program should maintain clean heat exchange surfaces while protecting the integrity of the system metallurgy. This enhances sustainability for long-term profitability.



## ON-LINE CLEANING IMPROVES DEPROPANIZER EFFICIENCY

The Depropanizer A and B heat exchangers were severely scaled, resulting in reduced throughput. Cooling efficiency was reduced by the scale formation and water flow was restricted, which further compromised cooling impacting production. ChemTreat was able to clean the A and B Depropanizers with a non-invasive, on-line treatment program. This reduced the approach temperatures in the A and B heat exchangers between 23° and 37° F respectively to 0.5° F.

By utilizing ChemTreat's non-invasive, on-line cleaning, the plant did not require a turnaround on the frac unit, which resulted in a savings of \$2M.



In addition to improving the heat transfer, the cooling water flow through the heat exchangers increased by 250%. The net result was an 8,000 barrel/day increase resulting in a net profit of \$8M per year.

# CHEMTREAT'S ENHANCED OFFERINGS

## Cooling Water & Heat Exchanger Treatments

- Specialized chemistries for water reuse options and blowdown reduction
- On-line and off-line heat exchanger cleaning and passivation technology
- High stress corrosion and deposit control programs
- Chlorine dioxide and other chlorine gas alternatives

## Process Chemistry

Many of the day-to-day operating issues encountered in conditioning and processing natural gas can be greatly reduced through the proper application of specialty chemicals.

ChemTreat's full line of industry specific process chemistry includes:

- Defoamers
- Paraffin Inhibitors
- Demulsifiers
- Corrosion Inhibitors
- Iron Sulfide Dispersants
- H<sub>2</sub>S Scavengers
- Oxygen Scavengers
- Amine Corrosion Inhibitors

## Pipeline

ChemTreat offers chemical solutions for all of your gathering line needs:

- Scale & Corrosion Inhibitors
- Surfactants
- Biocides
- Specialty Chemicals
- Cleaners

## Automation & Control

- Fluorescence monitoring technology for traced treatment programs
- Web-enabled data management to provide real-time reporting and analysis



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5640 Cox Rd. Glen Allen, VA 23060  
800-648-4579 / 804-935-2000  
[www.chemtreat.com](http://www.chemtreat.com)

