



HAYNESVILLE

CHEMISTRY ENABLES USE OF MINIMAL TREATMENT TO REDUCE FLUID COSTS BY 25%

The Challenge: An operator in the Haynesville Shale was experiencing higher than normal produced water rates. Rising trucking and disposal cost made it increasingly difficult to keep lease operating expenses within the budget. Sourcing a viable recycling operation would ultimately decide whether the operator could profitably continue its completion schedule or discontinue operations in the region. High-spec treatment options were too costly despite the desire for compatibility with the current completion chemistry.

Select's Solution: The company proposed altering the chemistry package in order to be compatible with a lower spec treatment. This FluidMatch™ approach allowed the operator to minimize treatment and chemistry costs while maximizing the reuse of produced water.

Rockwater performed a complete water analysis and provided completion fluid recommendations including friction reducers, biocides, and scale inhibitors. The blend and dosage of the chemistry was verified by Rockwater labs to optimize fluid performance, while taking into account the higher temperatures and composition of produced water in the area.

Select was the single source provider for the construction of a temporary produced water recycling facility including chemical oxidation, disinfection and solids removal.

Solving for the correct chemistry made this one of the first recycling and well completion programs in the Haynesville Shale to utilize recycled produced water.

Economic Value Created: The operator was able to exceed the expected total produced water reuse from a planned 10% to 25%, or 950,000+ bbls.

By using more produced water and reducing chemical costs, the operator saved more than \$200,000 on this job. Verified cost savings amounted to more than 25% of the budgeted water and chemical spend. Had the operator not been committed to disposal scheduling, Select would have further exceeded these results.

As a result of the Select's performance, the company was awarded work for a second pad with the same operator.

