

## Production Chemical Optimization

A large-scale Permian basin operator optimized their chemical application program and significantly reduced annual spend on chemicals by utilizing OLA for independent well monitoring.

### The Situation

Prior to working with OLA, the operator’s chemical provider conducted monthly chemical reviews focused on cost analyses and inventory management. They failed to provide insight on treatment effectiveness, data analysis, or failure prevention.

### The Solution

Following the OLA 5-Step Process, OLA data and analytical reviews delivered insights to help optimize the operator’s chemical program.

#### Findings

- The chemical company’s recommended concentration was more than 3X the concentration required
- The chemical company ran two solubilities together when only one was chemically needed
- The chemical company delivered the treatment mixture by continuous injection, but only batch, only batch treatments at lower monthly volumes were necessary

### Outcome and Results



**50%** reduced toxicity to the environment

Average chemical savings of **\$130,000** per month

Approximately **40%** savings overall on chemicals and chemical-related LOE

Total savings of **\$1.2** million/quarter, applied to a well asset base of 500 wells

Nearly **50%** reduction in failure rate, while production rates were uncompromised

### Ready To Get Started?

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# Production Optimization



## Functionality vs. Optimization

Your well management program may be functional, but does that constitute *efficient, clean, and optimized for low failure and maximum production*? Oftentimes, it can be difficult to discern that a chemical application program may be contributing to production issues and failures. “Wait ‘til it fails” is not a well-management program; good data and analytical review are.

**The OLA process starts on the ground, in the field, where our team of trained technicians collect high-quality samples for testing performed in OLA's ANAB ISO-17025 accredited performance laboratory. The results are transparent and unbiased, leaving you with the insights you need to optimize your wells' production rates.**



## The OLA Mission

Our goal is to help our customers connect the dots, and optimize their well management programs, while also working towards a more sustainable and ESG-focused industry.

## OLA's 5-Step Process

1	2	3	4	5
<b>Discovery meeting (15–30 min)</b>	<b>Well selection process</b>	<b>Field sampling (1–2 days) and lab testing (3–5 days)</b>	<b>Review results (1 hour)</b>	<b>Set a maintenance program (quarterly/semi-annual well testing plan)</b>
<p>We kick off with an informal discussion to gain an understanding of any issues you may be experiencing, such as:</p> <ul style="list-style-type: none"><li>• High failure rates (likely caused by corrosion, scale, etc.)</li><li>• In-field emulsions</li><li>• Rising chemical rates</li></ul>	<p>OLA can perform a total assessment of your field, or review a baseline portion of wells, ensuring a good mix of well types are included for comparison:</p> <ul style="list-style-type: none"><li>• High-profile and low-profile wells</li><li>• Wells with various lift mechanisms in place</li><li>• Wells serviced by differing vendors and/or chemicals.</li></ul>	<p>We send our own field technicians to collect samples and they continue to our lab for testing, custom fit to your needs. In most cases, tests to profile the well include:</p> <ul style="list-style-type: none"><li>• Water analysis (CWA)</li><li>• Bacteria analysis</li><li>• Chemical residuals analysis</li><li>• Chemical product performance testing (e.g., Minimum Effective Concentration [MEC])</li></ul>	<p>In this meeting, we uncover testing results on the well performance and the product itself. We'll also provide guidance and insights that help you optimize your wells.</p> <p><b>If we determine zero findings for management, we ensure zero cost to the operator for the initial lab testing services rendered.</b></p>	<p>If you decide to expand the program, we will schedule a best-fit maintenance program which includes data analyses and routine reviews to continuously manage your program against KPIs and improvement plans.</p>

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