

# Smarter Acidizing Across 866 Wells in California

Locus Bio-Energy's AcidBoost® biosurfactant-based microemulsion (BME) helped California operators replace complex acid remediation systems with a single, multifunctional solution—delivering cost savings, operational efficiency, and sustained production gains across more than 866 wells.

80%  
fewer ancillary chemicals

70%  
higher production

\$750K  
monthly revenue gains

## OVERVIEW

### Background

California operators face unique challenges: aging wells, declining production, and strict regulations under Senate Bill 4 (SB 4). Traditional acidizing methods—built on solvents, surfactants, and anti-sludge agents—often fall short in performance and compliance. This case study highlights how operators streamlined treatments and unlocked value by adopting AcidBoost.

### The Challenge

**Complexity:** Legacy acid jobs required multiple additives, higher volumes, and multistage processes, driving up costs and risks.

**Compliance:** SB 4 imposed acid volume limitations and strict reporting requirements, limiting treatment options.

**Performance Gaps:** Paraffin, asphaltene and crude oil blocked acid contact, resulting in incomplete treatments and weak production uplifts.

## THE SOLUTION

### The Solution

To overcome these challenges, operators turned to **AcidBoost, Locus Bio-Energy's biosurfactant-based microemulsion**, delivered in partnership with Cal Coast Acidizing, California's leading acidizing and pressure pumping company.

Unlike legacy treatments that require separate solvents, surfactants, and anti-sludge agents, AcidBoost consolidates all three into one acid-compatible, single-stage solution. Through Cal Coast's trusted service and expertise, operators gain seamless access to this advanced chemistry—integrated directly into their acid stimulation workflows.

	Conventional System	AcidBoost
<b>Surfactant</b> ● <b>Solvent</b> ● <b>Anti-sludge</b> ●	<p>Separate additive required</p>	<p>All-in one</p>
<b>Dosage</b>	<p>(multi-stage)</p>	<p>(single-stage)</p>
<b>Environmental Impact</b>		
<b>Cost</b>	<p>\$\$\$\$</p>	<p>\$\$</p>

The result is a smarter, field-proven treatment that reduces chemical volumes, simplifies job design, and maximizes production—all while meeting California's strict regulatory requirements.



## THE RESULTS

# Turning Complex Acid Jobs Into Measurable Performance Gains

The deployment of AcidBoost® across hundreds of California wells shows how simplifying chemistry translates directly into operational and financial impact.

By reducing complexity and aligning with strict regulations, operators not only streamlined treatments but also unlocked significant, sustained production and revenue improvements.

# 80%

Reduction in Ancillary Chemicals

Operators cut **tote counts from six down to one**, lowering costs and on-site risks.



Lower Costs & Faster ROI

AcidBoost accounted for **less than 5% of treatment budgets**, with payback achieved in as little as two weeks.

# 70%

Production Increase

One 46-well program **added \$750K in monthly revenue**, with effects sustained over 12 months.



ESG Alignment

By eliminating solvents and chelators, **operators reduced environmental impact** and improved compliance reporting.

## NEXT STEPS

# Ready to simplify acidizing and boost ROI?

Contact Locus Bio-Energy to design your next acid remediation program

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