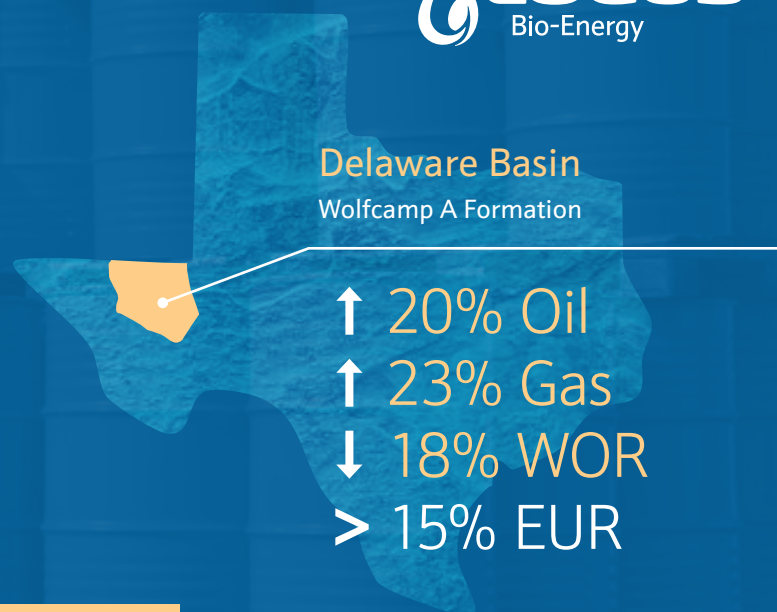


# SUSTAIN<sup>®</sup> Biosurfactants

## Higher ROI and Production in Frac



### OVERVIEW

#### The Challenge

In the Delaware Basin, a major oil and gas operator sought to improve well productivity in the Wolfcamp A formation without changing mechanical completion design

Traditional surfactant systems had historically delivered inconsistent results, leading the operator to remove surfactants from fracturing programs for nearly a decade.

With completion efficiency already optimized, further gains required a focus on chemical efficiency—specifically, improving oil mobility and flowback performance under high-salinity, low-permeability reservoir conditions where capillary forces restrict recovery.

#### The Solution

To identify the most effective chemistry, the operator commissioned a third-party qualification study comparing 20 surfactants from multiple vendors under simulated reservoir conditions.

**SUSTAIN<sup>®</sup> SF101**, a biosurfactant-based technology from Locus Bio-Energy, ranked as the top performer across multiple performance objectives while meeting price metrics, was selected for field trials.

#### TRIAL DETAILS

<b>Surfactant Loading</b>	1.0 gpt (operator selected)
<b>Pad Configuration</b>	6 wells (3 treated with SUSTAIN <sup>®</sup> , 3 untreated controls)*
<b>Completion Design</b>	Zipper-frac configuration with matched lateral lengths, proppant volumes, and fluid designs; treated and untreated wells isolated for unbiased comparison
<b>Monitoring Period</b>	12 months post-treatment
<b>Data Collection &amp; Validation</b>	Production data sourced from statutory monthly public data reporting, compiled by and sourced from Enverus, and verified by the operator.
<b>Performance Benchmark</b>	Operator target: ≥10% oil uplift and positive ROI within 6 months of treatment

See the  
**Results** 

\*Two exterior wells are excluded from the 12-month data analysis based on diagnostic evidence of production interference.

# >15%

## EUR Expansion Per Well

↑20% Oil   ↑23% Gas   ↓18% WOR

### THE RESULTS

#### Field Performance Summary

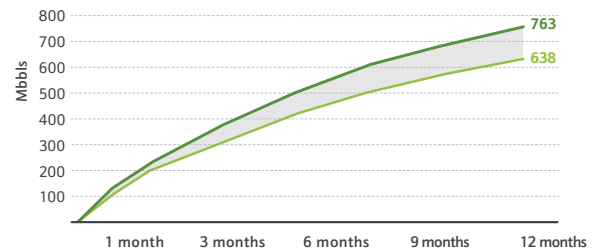
SUSTAIN®'s optimized formulation delivered measurable uplift across all performance metrics:

- **Faster Oil Cut & Flowback**
- **Higher Initial Production (IP)**
- **Sustained oil production uplift** throughout the 12-month monitoring period
- **Improved WOR** and overall fluid recovery efficiency

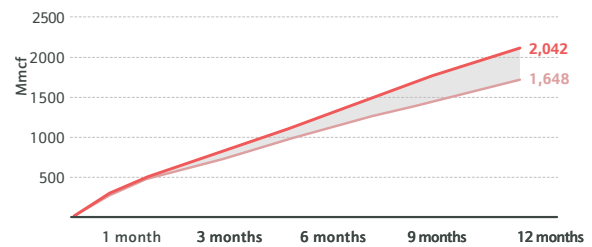
#### Key Takeaway

**SUSTAIN® SF101 delivered sustained production uplift through one full year of operation, achieving payout in less than one month** and confirming that optimized biosurfactant chemistry drives durable performance beyond early-time flowback. Twelve months post-treatment, treated wells continued to show higher cumulative oil and gas production and lower water production relative to untreated controls—demonstrating long-term value rather than short-term gains.

 Cumulative Oil   ● SUSTAIN SF101   ● CONTROL



 Cumulative Gas   ● SUSTAIN SF101   ● CONTROL



### MORE FROM LOCUS

Extend production from frac to flowback and beyond.

Discover how SUSTAIN®, STIM®, and AcidBoost® work together to maximize recovery and ROI across the well lifecycle.

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