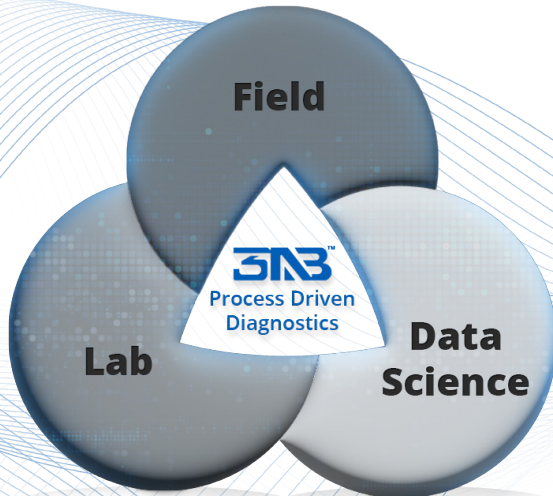


Process Driven A/B Testing

## De-Risk Decision Making with 3AB: Process Driven A/B Testing



### Quantitative Decisions. Faster.

Evaluation of Completion Variables with an Economic Output in 90 days

Leveraging a unique three phase approach, Core Lab allows operators to create a statistically relevant data set more quickly. Stage level evaluation provides numerous data points and allows for confident decision making after just 2 to 3 wells.

Evaluate incremental production changes | Tailored to specific basins | Consideration for rock type and heel-toe bias



#### Field Testing

Basin specific testing in partnership with operators to optimally design tracer projects based on unique objectives.



#### Laboratory Analysis

Stim-Lab has been utilized to create a multitude of downhole environments, simulating different reservoir conditions and propped fractures in which to analyze tracer performance.

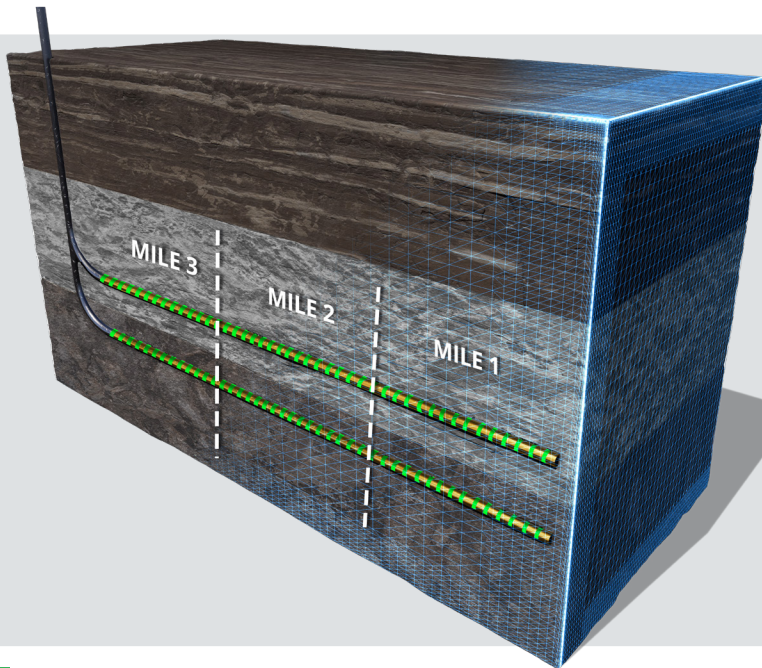
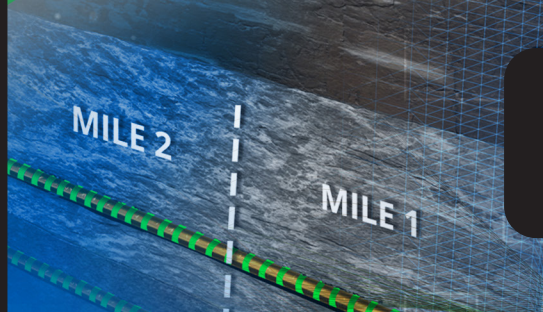


#### Data Science

A multidisciplinary approach analyzing Core Lab data to identify trends, insights, and further refine and expand optimal tracer designs.

### Quickly and Confidently Adjust

- ▶ Perforation Design
- ▶ Stage Spacing
- ▶ Frac Additives
- ▶ Cluster Orientation
- ▶ Proppant Loading
- ▶ Frac Intensity
- ▶ Cluster Spacing
- ▶ Proppant Selection



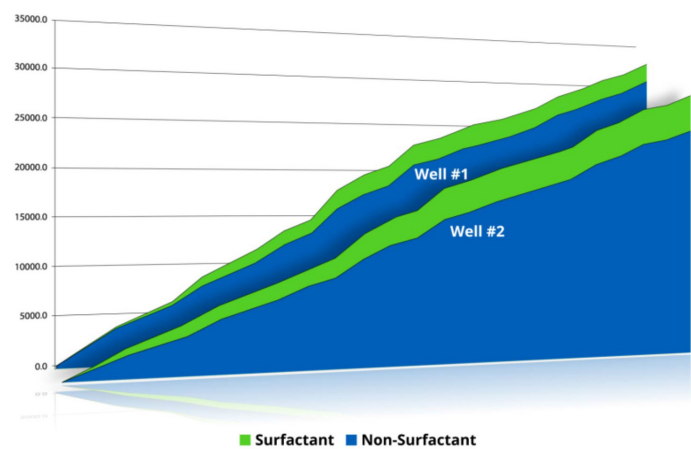
### Example Variable Evaluation: Frac Additive Effectiveness

- ▶ 100 stages/well in two benches
- ▶ Two unique tracers per each mile completed; one with the surfactant additive and a second one for non-surfactant (clean) stages.

#### Economic Output

- ▶ Confirmed Production Uplift
- ▶ Cumulative oil allocation shows incremental production (green) from surfactant stages in 60 days
- ▶ Confirmed 15% uplift in production in Well #1 and 7% in Well #2, validating a \$310k cost per well

#### Surfactant vs Non-Surfactant Comparison



Surfactant vs Non-Surfactant Design - cumulative oil allocation shows incremental production (green) from surfactant stages in 60 days

100 stages/well in two benches  
Two unique tracers per each mile completed; one with the surfactant additive and a second one for non-surfactant (clean) stages.  
Confirmed 15% uplift in production in Well #1 and 7% in Well #2, validating a \$310k cost per well