



Bacteria Testing & Monitoring

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Pre-Job Bacteria Testing

- Objective:
 - Find optimal loading and chemistry at the best price
- Methods:
 - ATP
 - Anaerobic SRB Vials
 - Anaerobic APB Vials



Compatibility Testing

- Potential Problems:
 - Cation/Anion Interference
 - Oxidation of FR or Crosslink
 - pH Changes
 - Temperature



Post-Frac Monitoring

- Customized Programs
 - Weeks to Months
 - ATP, SRB, and APB
 - Complete Water Analysis
 - Anions/Cations and full elemental breakdown
 - Dissolved Gases
 - H₂S
 - CO₂
- Data Visualization
 - Excel, PowerPoint, Tableau



Summary

- Pre-Job testing aides in selecting optimal product
- LOS has the tools to check compatibility
- Post-Frac monitoring can confirm effectiveness



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