

The Curious Case of Finding \$1MM of Unexpected Liquids at a Compressor Station

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Outline

- About Elite Optimization
- Background
- Problem Solving Thought Process
- Short Term Solution
- Long Term Solution
- Questions





Elite Optimization

Based in Midland, TX

Project Management

- Concept
- Design
- Construction
- Start Up

Triage Team

- Troubleshoot Plant Operations
- Upstream and Midstream
- Optimization

Geomatics

- Drone Fleet
- GIS Based WebMaps
- Drafting and Drawings





Compressor Station Inlet and Outlet

Oil Production



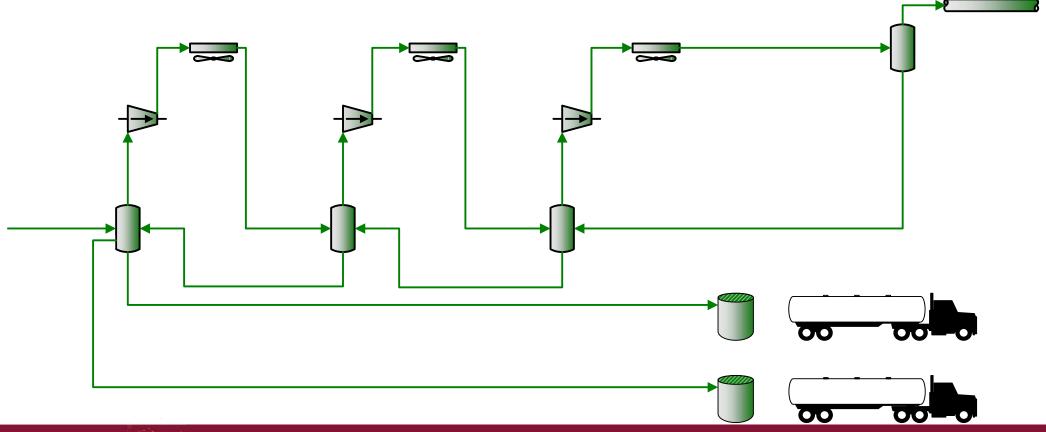
Compressor Station



Pipeline to Gas Plant



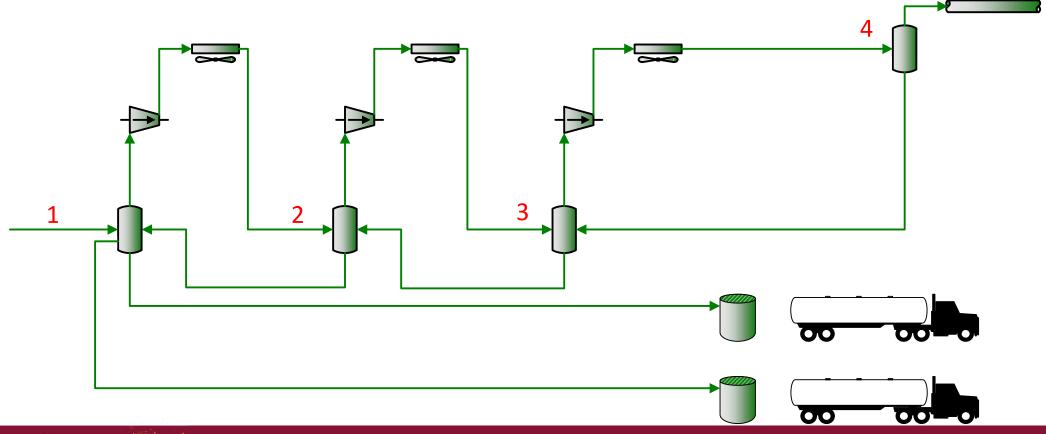






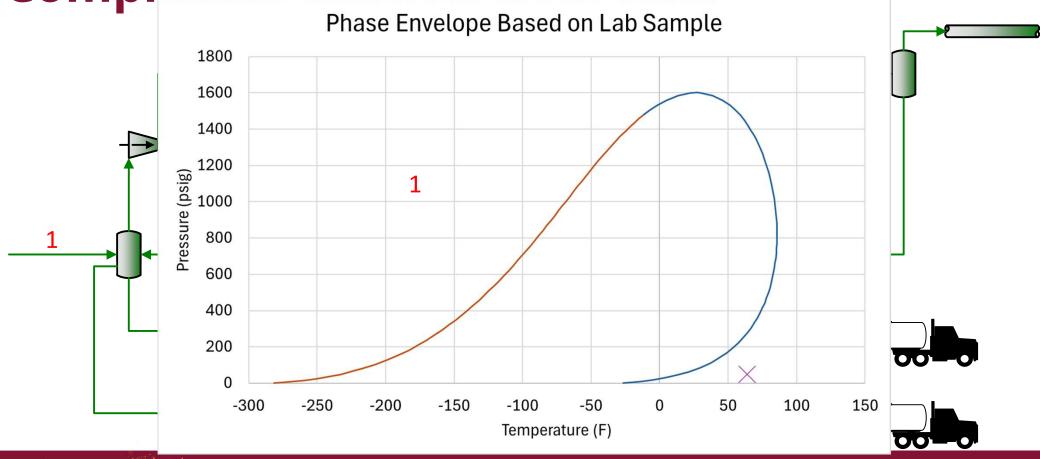


Compressor Station Liquids



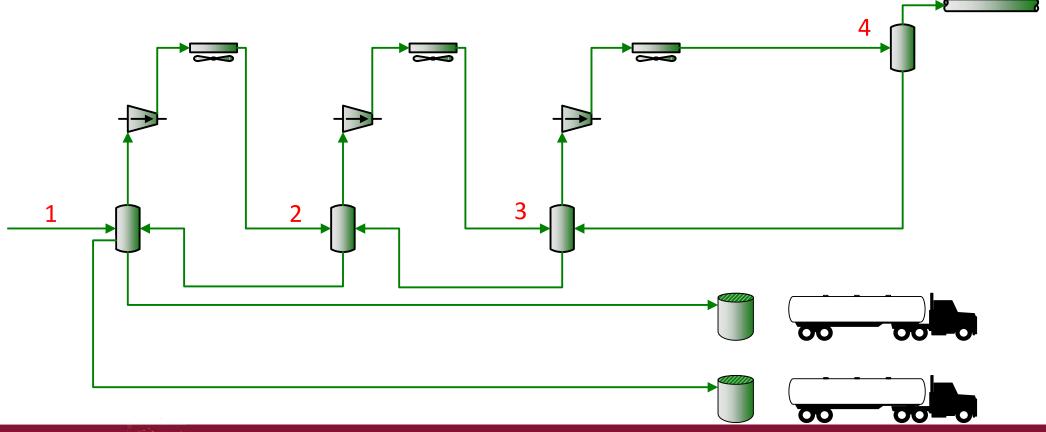






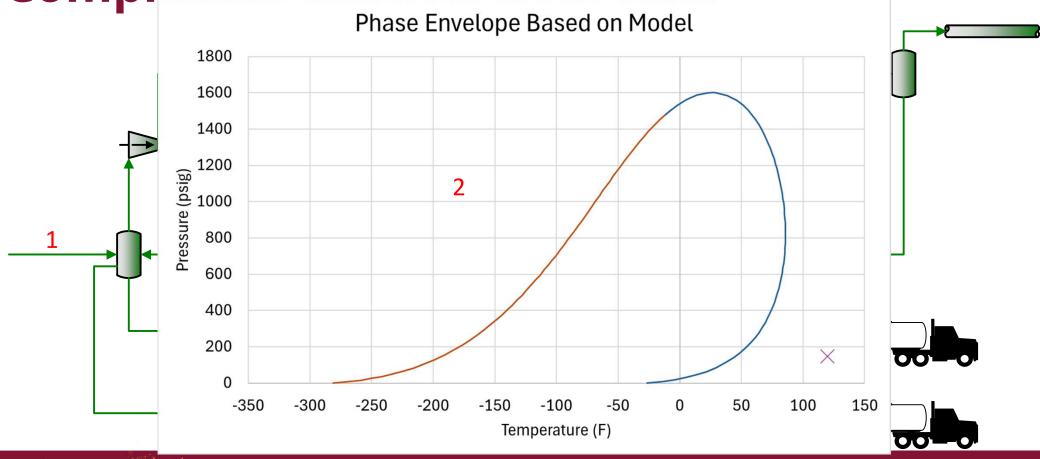






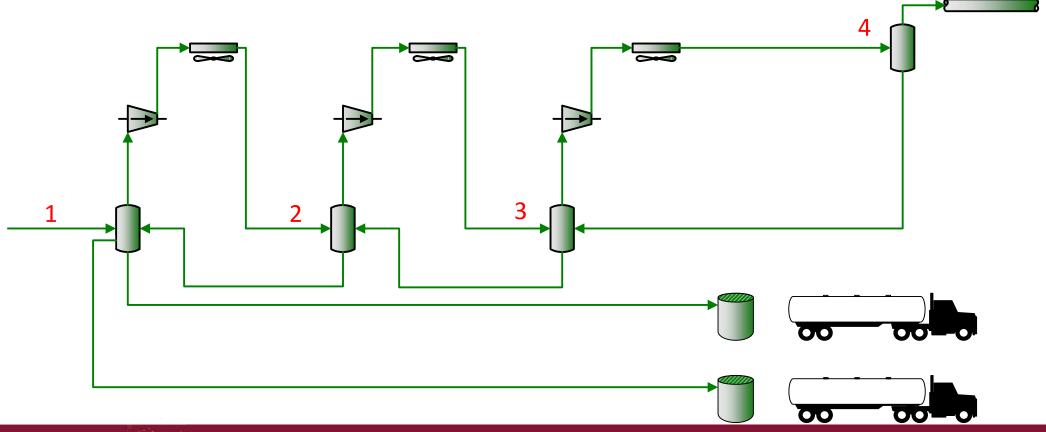






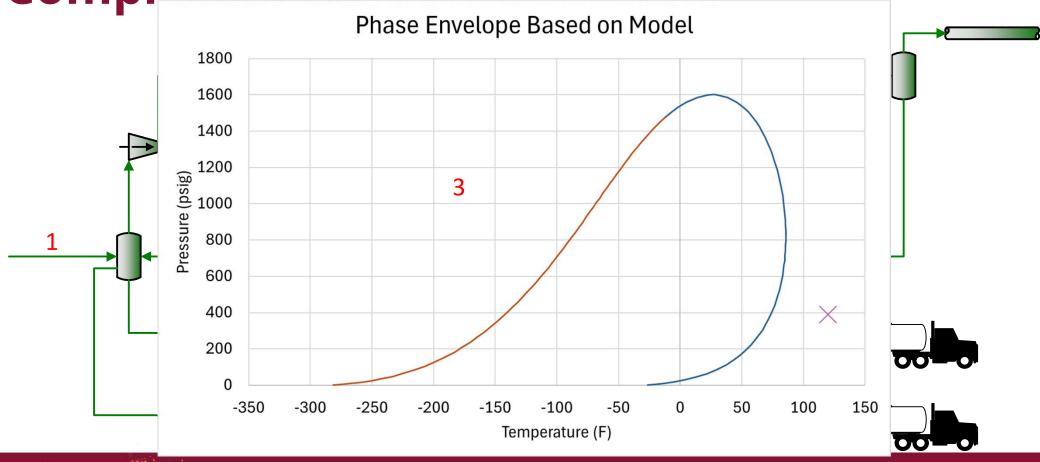






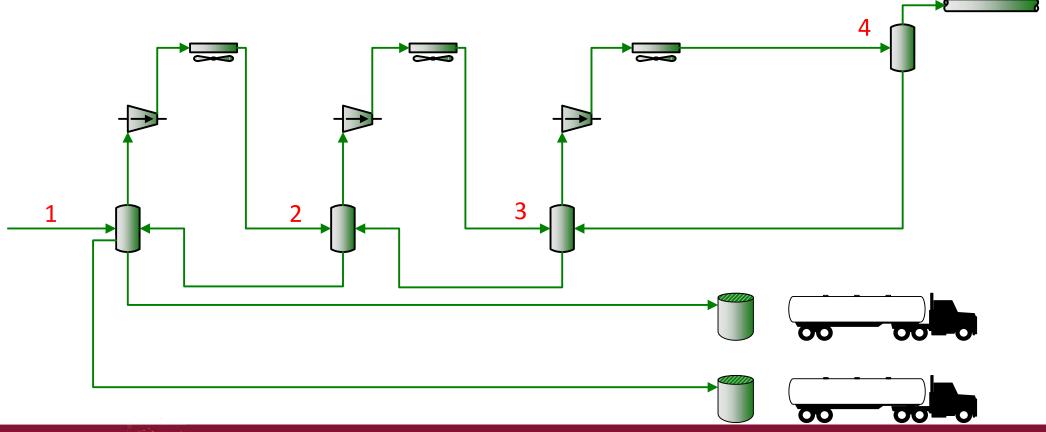






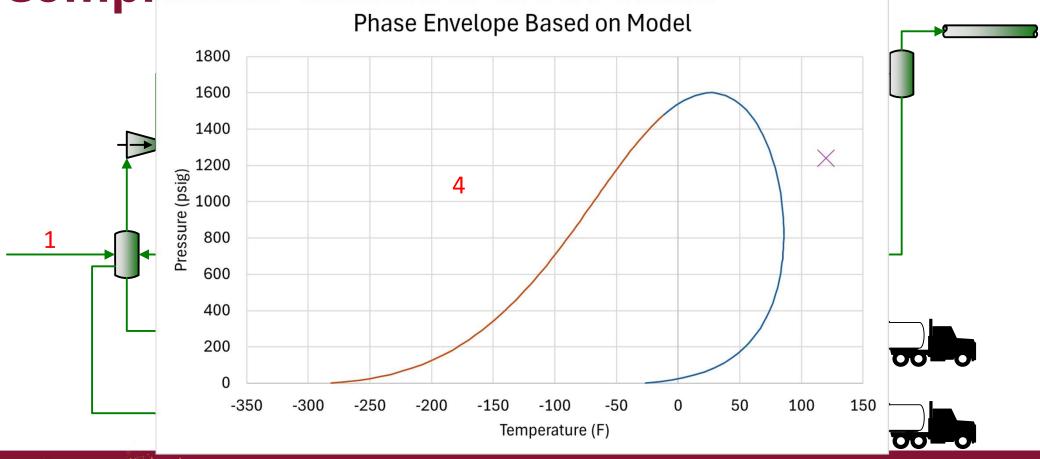






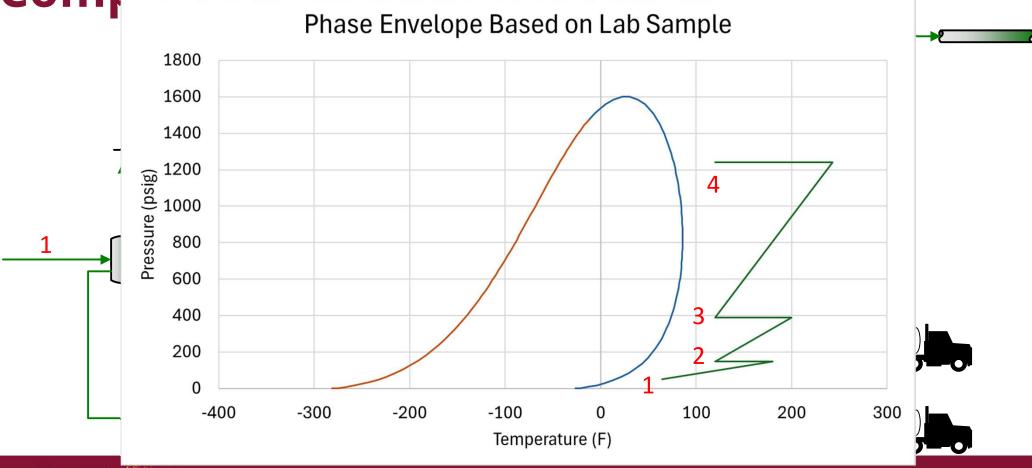






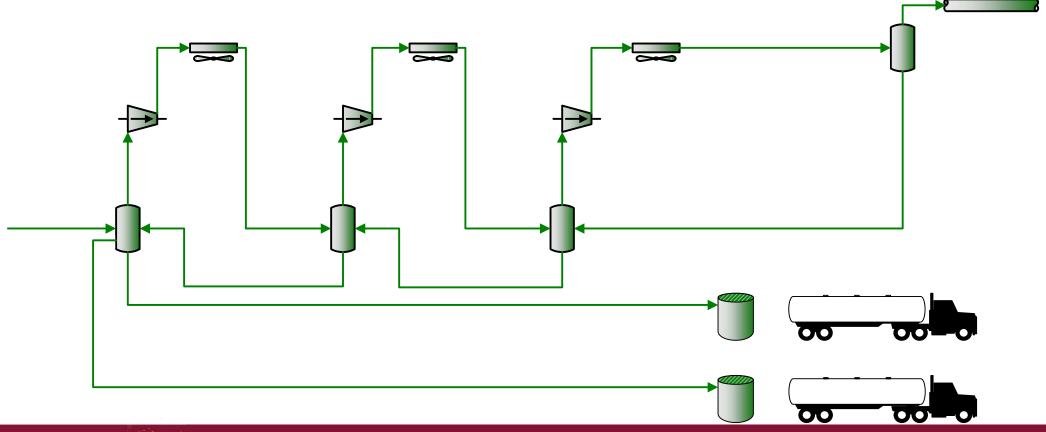






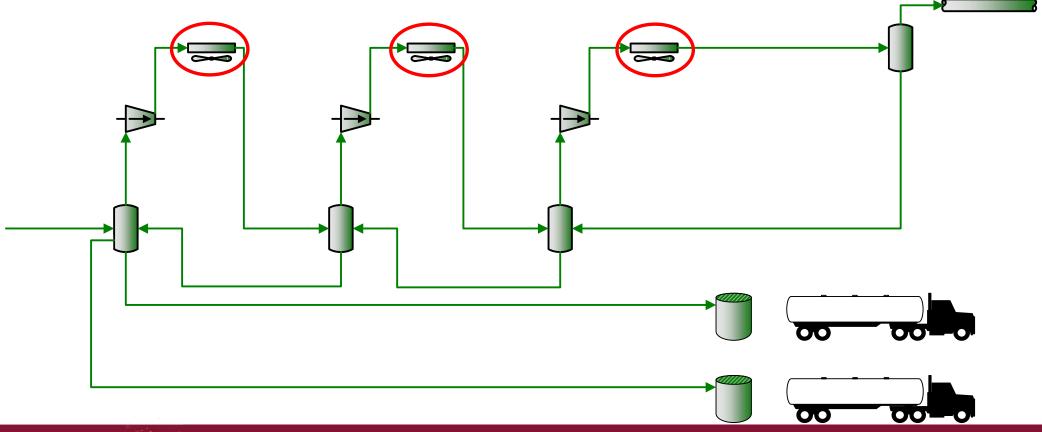






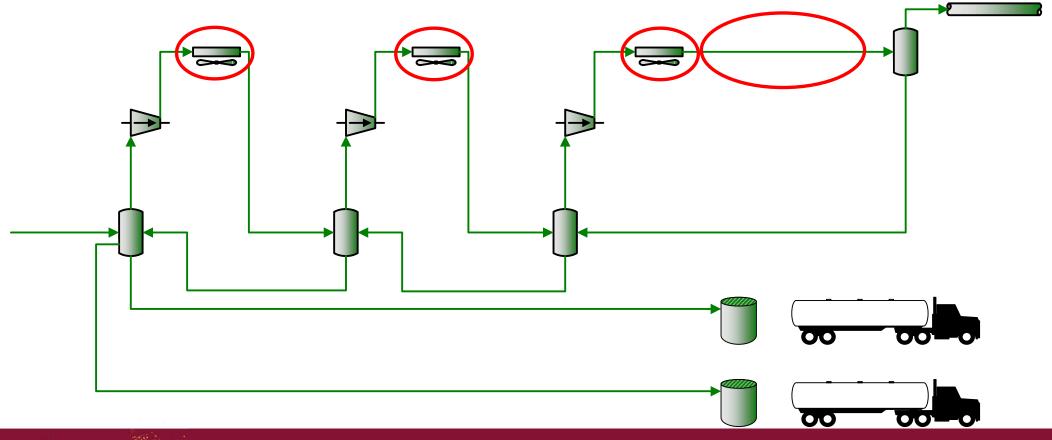






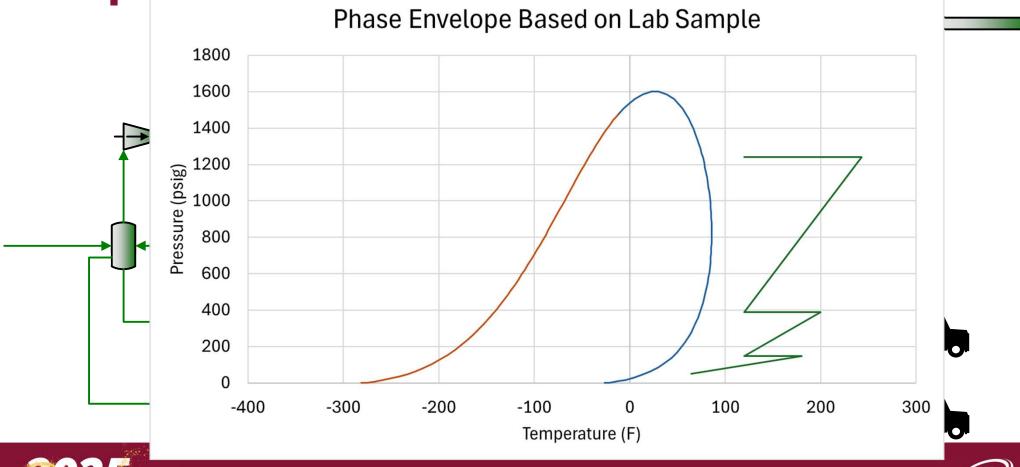


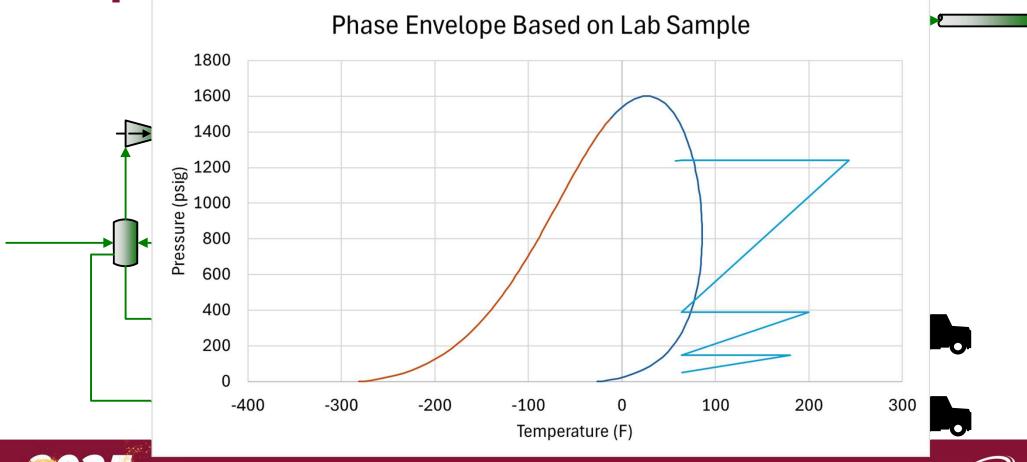






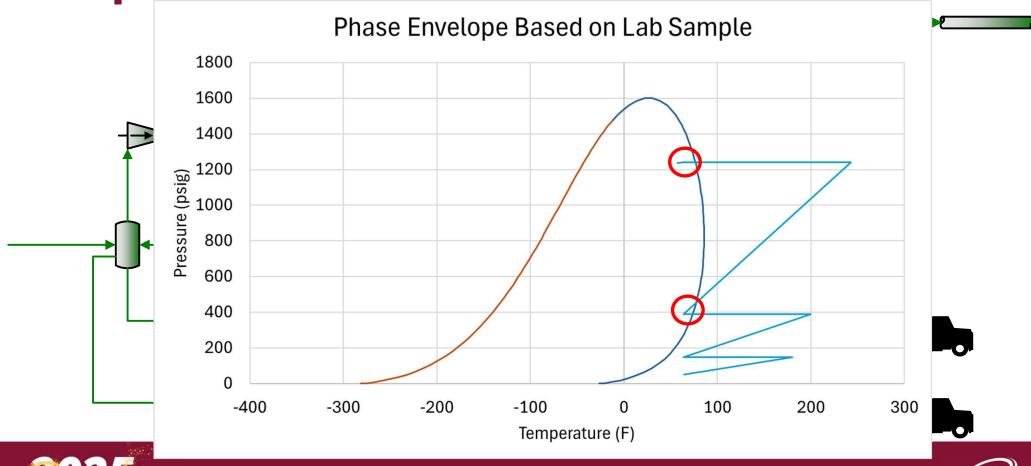
















Short Term Solution

- Calculate Historical Liquid Drop Out
 - Use Real Data from Field
 - Fill in Missing Data with ProMax Model
 - Do Not Ignore the Pipeline





Results

- Based on Contract More Than \$1.1 MM Owed to Upstream Producer in 2022
- 2023 and 2024 Next to be Calculated
- Third Party Calculation Prevented Lawsuit
- Long Term Solution Being Negotiated





Most Attractive Long Term Solution

- Install Real-Time Virtual Instrument
 - ProMax Model Automatically Executes Every Day
 - Calculation Performed by Independent Third Party
 - Report Sent Monthly to Each Party
 - Low Cost
 - Alternative is Costly Retrofit to Install Piping, Separator, and Flow Meter





Questions?

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