



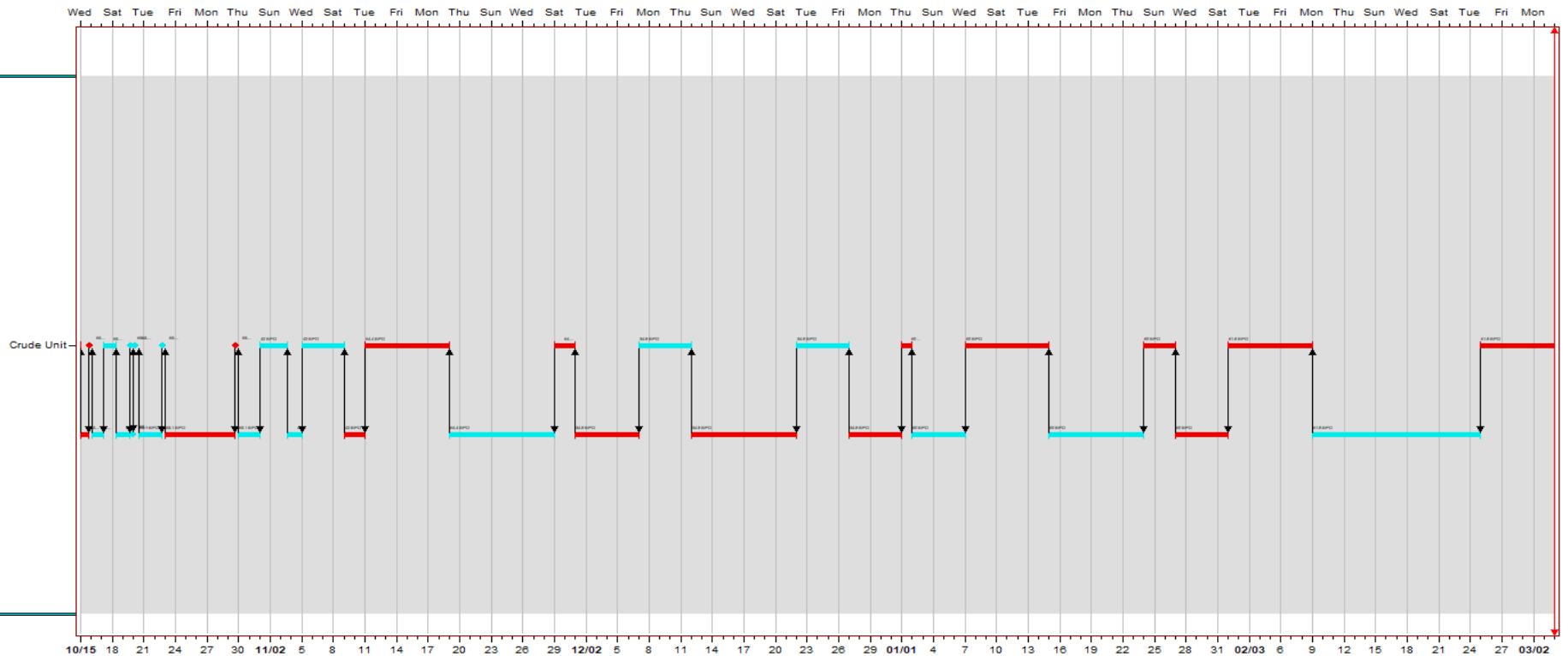
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Crude Planning

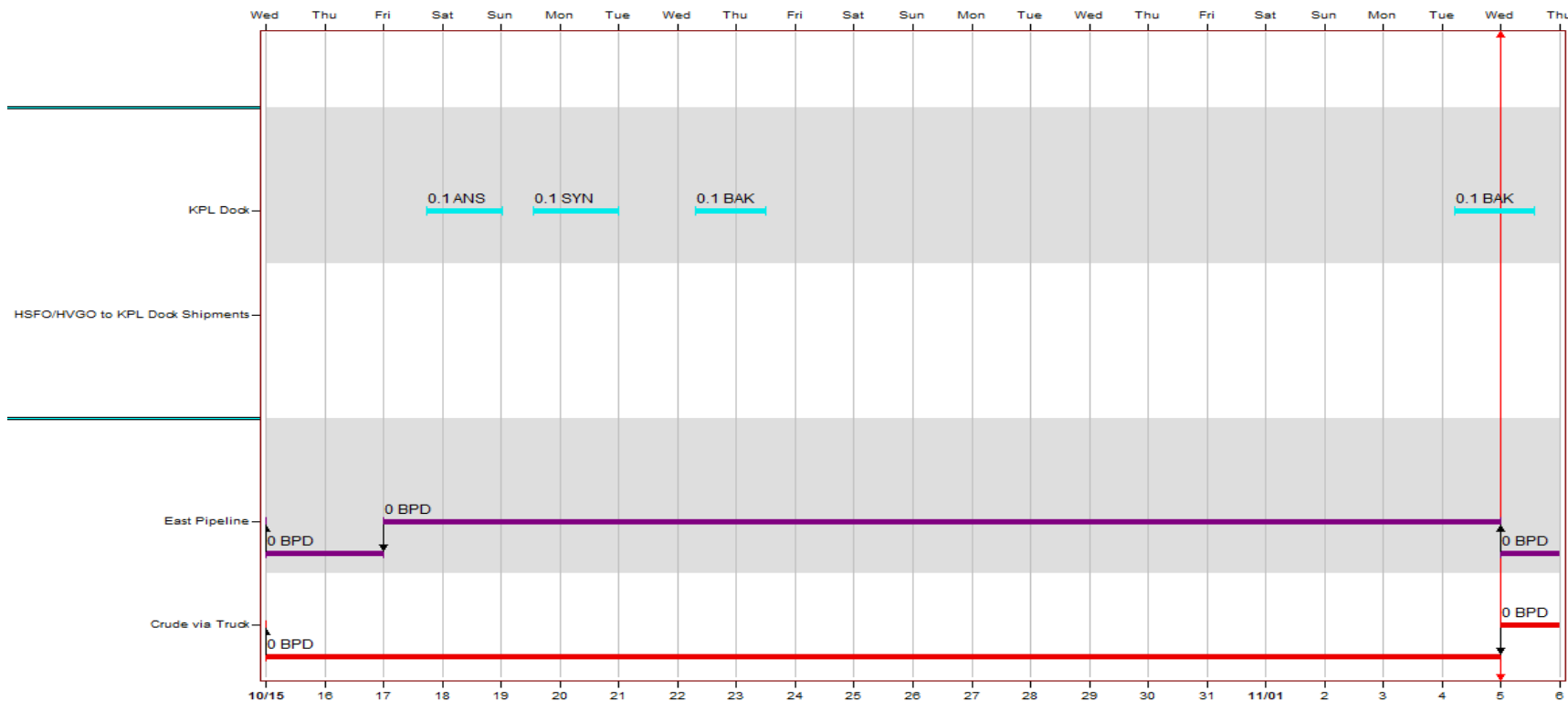
Kenai Refinery

- 87% of Crude is Delivered via Tanker
- A 5 MBPH Offload Rate Decrease Can Increase Port Time by 5 to 8 Hours
- Kenai has 5 Different Crude Charge Composition Restrictions
- The Refinery Minimum Inventory Allows 1 Week of Runtime at Min Crude Rate
- 1 MBPD Reduction in Crude Rate ~ Loss MM\$/Month
- 1 Day of Demurrage Ranges from \$50,000/day to \$110,000/day

Crude Planning



Ship Timing Impacts



Refinery Impacts



- Forces the refinery to:
 - Run New or Suboptimal Crude Compositions
 - Set Tank IFR Legs
 - Decrease Sweet & Sour Blocks Run Lengths
 - Swing Crude Rates





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Questions