

## Exhibit D

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# CRUDE CORN OIL SEPARATION A CVEC

12 June 2009

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# HISTORY

- Westfalia Separator
  - Late 2007 installation, early 2008 planned startup
  - Second installation for oil recovery
  - Built Westfalia P&ID: No oil recovered!
  - Spin test: No “free” oil
  - Westfalia: “You must have changed your process.”
- BEST Energies
  - Need to disrupt the oil-in-water emulsion
  - Time and Temperature approach
  - Batch operations during reengineering

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## INITIAL SOLUTION

- Heat syrup from 140 °F to 190-192 °F
  - Lower temperature decreases oil yield
  - Higher temperature darkens DDGS
- Increase residence time to 20 hours
  - Lower residence time decreases oil yield
  - Higher residence time is infeasible without \$
- Result: 0.25 lb Oil / bu Corn

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## Research Goals

- 1) How does CVEC increase Corn Oil yield and maintain DDGS quality?
- 2) What consistent Corn Oil yield can we obtain and what are the DDGS ramifications?
- 3) Can we return our “Standby” stillage tank back to “Standby” service?

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