



REED M. KNOBBE, Process Engineer

SUMMARY OF QUALIFICATIONS

River City Engineering, Inc., Lawrence, Kansas USA 2007-Present

Process Engineering Consultant for the Oil & Gas Industry providing design and technical support for gas and liquids processing/handling projects.

- Process evaluation of landfill gas recovery plant using the Kryosol process to determine necessary modifications as throughput increased.
- Process evaluation of coal mine methane processing plant turndown. Evaluated alternative technologies and performed high level cost estimates for replacement of the existing cryogenic nitrogen rejection column.
- Expansion, performance, and troubleshooting study to increase capacity of a cryogenic gas plant from 60 MMSCFD to 90 MMSCFD.
- Preliminary engineering study of a process to purify n-butane for further processing to food acids. Evaluated technology and provided high level cost estimates.
- High level analysis of cost effectiveness of compressing, dehydrating, and transporting CO₂ for use in tertiary oil recovery.
- Evaluation of plate-fin exchangers in gas plant to determine if thermal stresses caused by temperature differences were within acceptable limits.

PREVIOUS EXPERIENCE

TRINITY CONSULTANTS, Kansas City, Kansas, March 2007 – October 2007

Consultant providing client support to meet EPA regulations including preparing annual reports and permit applications. Performed air dispersion modeling using AERMOD to predict potential pollution from facilities.

EDUCATION

University of Kansas

Lawrence, Kansas

B.S. Chemical Engineering with Distinction, 2002 – 2006

- Recipient of the Kurata Thermodynamic Award, 2005
- Named “Outstanding Sophomore in Chemical Engineering”, 2004

PROFESSIONAL MEMBERSHIPS

Engineer in Training (EIT), Kansas

American Institute of Chemical Engineers

Tau Beta Pi