



# ROSS ASBURY



## Consulting Process Engineer

785-330-5155

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### TOP SKILLS

- PSV Evaluation
- P&ID & PFD Development
- PHA / PSM
- HTRI
- Technical Writing
- HYSYS

### PROFESSIONAL EXPERIENCE

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#### Consulting Process Engineer

*River City Engineering, Inc. / Lawrence, KS / 2018 – Present*

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

- Performed debottlenecking study on CO<sub>2</sub> Recovery Plant to bring capacity from 48 MMSCFD to 64 MMSCFD. Onsite visit to collect data and discuss operations with operators. Evaluated dehydration beds, separators, heat exchangers, compression, and piping to identify bottlenecks and assess options to increase capacity. Used vendor programs, HYSYS, and inhouse programs to evaluate equipment.
- Assisted in plant startup of 250 MMSCFD gas plant. Created purge procedures, created commissioning checklists, and on-site process engineering support for operations and other plant personnel.
- Performed hydraulic calculations in a PSV study for a 250 MMSCFD gas plant with full fractionation. Determined relief valves with excessive backpressures and inlet pressure drops.
- Sized PSVs in a new 250 MMSCFD gas plant. Used HYSYS and vendor programs to evaluate equipment and determine relief rates.
- Evaluated flare radiation for various relief scenarios in PSV Study.
- Provided remediation options for undersized PSVs and piping to ensure relief equipment is adequate.
- Scribed for PHA of a new plant build and completed final PHA report.
- Wrote operating procedures for three 250 MMSCFD gas plants. Systems include amine treating, TEG Dehydration, NGL Recovery, Stabilizer, and Inlet/Residue compression. Participated in onsite operating procedure review for two gas plants with operators and plant supervisors.
- Participated in optimization project for West Texas gas plant. Visited plant to collect data and familiarize with plant operations. Completed data match and optimization cases to improve recovery.

### EDUCATION

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B.S. Chemical Engineering, 2019

*University of Kansas*