



EMILIE ASBURY, Consulting Process Engineer

SUMMARY OF QUALIFICATIONS

River City Engineering, Inc., Lawrence, Kansas

2017-Present

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

- Part of an optimization team and responsible for 16 West Texas gas plants. Liase with operations and discuss issues that are causing them problems. Work options to alleviate these problems. Also, collect and analyze plant data to evaluate and track equipment performance and make recommendations on operating set-points to maximize recoveries.
- Project Manager for five projects at two gas plants in West Texas. Oversaw development, bidding, purchasing, installation, operations training, and conducted PHA.
- Assisted on plant startups of two 250 MMSCFD gas plants and two 200 MMSCFD gas plants. Created purge procedures and led purging, created commissioning checklists and assisted completion, created amine and glycol system wash procedures and led the project, point of contact for vendors during startup, assisted Expander/Compressor startup, on-site process engineering support for operations and other plant personnel.
- PSV study for an exisiting North Texas gas plant. Sized PSV's, assisted with hydraulics, and flare radiation calculations, developed datamatch simulation in Aspen HYSYS for fluid properties.
- PSV study for an exisiting North Dakota gas plant. Sized PSV's, assisted with hydraulics, and flare radiation calculations, developed datamatch simulation in Aspen HYSYS for fluid properties.
- Performed tower inspections of four towers at a 200 MMSCFD plant, inspected two vessels.
- Scribed for PHA of existing plant relocation and for new plant build.

EDUCATION

Colorado State University

Fort Collins, Colorado

B.S. Chemical & Biological Engineering 2013 – 2017

- Received Professional Involvement Award from Chemical Engineering Department
- Senior Design: Electrospinning of Demineralized Bone Matrix, 3rd Place
- President of AIChE CSU Student Chapter, 2 years
- Section Leader 2 years in CSU Marching Band, Member 3 years

PROFESSIONAL MEMBERSHIPS

American Institute of Chemical Engineers

PUBLICATIONS/PATENTS

Co-author of “Combined delivery of FGF-2, TGF- β 1, and adipose-derived stem cells from an engineered periosteum to a critical-sized mouse femur defect” in *Journal of Biomedical Material Research*, analyzing growth of biomimetic periosteum