DANIELLE M. BAUGHMAN

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Owner

Highly Accomplished Engineer offering 11 years of experience in Cost Reduction, Increasing Efficiency, and Promoting Bottom Line Growth for small, medium, and large businesses in the energy sector. Offers a rare blend of engineering leadership backed by Operations, Maintenance, Finance, Process Engineering, Facilities/Project Management, Environmental and Regulatory, and Business Development experience. Strong leadership skills with the ability to direct and train Engineers, Operations, and Maintenance personnel in process and project execution. Solid track record of success in delivering projects on time and within budget, while increasing quality and morale.

AREAS OF STRENGTH & SKILL

- Team Leadership & Supervision
- Project Management/Execution
- LEAN and Green Belt Certification
- Process & Procedures Development
- Troubleshooting & Issue Resolution
- Cross-functional Team Collaboration
- Facilities/Process Engineering
- Team Training & Mentoring
- Cost Estimating & Design

PROFESSIONAL EXPERIENCE

Process Engineer III/Project Leader/Process Improvement Lead 03/2016 – Present

Section H and Integrity Pipeline Condition Digs Cost Reduction Project

Mentored Project Engineers and Operators on LEAN principles to reduce cost, reduce schedule, increase quality, and increase morale in the pipeline group. First round reduced project costs by 58% and schedule by 58%. Estimated projected savings of $10MM - $15MM in 2019.

Cost Reduction			
Projected AFE Costs	$672K	Average Dig Cost	$72K/Dig
Actual Project Savings	$398K	Actual Cost/Dig	$30K/Dig
% Savings	**59%**	% Savings	**58%**

Schedule Reduction (Based off of a 5 day work week/8 hrs per day)	
Projected Schedule	6 weeks
Actual Schedule	2.5 weeks
Schedule Reduction	**58%**

CONTINUED

West Virginia Pipeline Condition Digs Cost Reduction Project

Mentored Operators on LEAN principles to reduce cost, reduce schedule, increase quality, and increase morale in the pipeline group. First round reduced project costs by 24% and schedule by 56%.

Cost Reduction			
Projected OPEX Costs	$137K	Average Dig Cost	$27K/Dig
Actual Project Savings	$104K	Actual Cost/Dig	$20K/Dig
% Savings	**24%**	% Savings	**25%**

Schedule Reduction (Based off of a 5 day work week/8 hrs per day)	
Projected Schedule	16 days
Actual Schedule	7 days
Schedule Reduction	**56%**

Compressor Engine Top End and 48K Cost Reduction Projects

Used knowledge of LEAN principles, reduced compressor 48K and engine top end (Waukesha and CAT) maintenance jobs from 4 days to 1-2 days. Same scope of work and implemented with both union and non-union contractors.

Compressor Maintenance Jobs				
Job	**Jobs Completed**	**Cost Savings**	**Downtime Reduction**	**Cost Reduction**
Top End Service	7	$61,988	10% - 58%	10% - 58%
48K Service	2	$19,555	35%	35%
Total Cost Savings		$81,543		

Midstream Processing Facility - Filter Cost Reduction Project

Evaluated the need to install a $350K filter upstream of the C3+ pumps. After evaluating the hydraulics of the filter, determined that the filter was not needed.

- Cost Reduction: $350K plus costs on installation.

Midstream Processing Facility - 2” Decant Line Project

Operations was sending glycol and other sludge from a slug catcher vessel to a closed drain tank. There is currently no safe way to clean out the slug catchers without taking the entire plant offline. The project that was proposed was the 1” coalescing filter dump line to 2”. The quote to do this work was $150K. Was able to redesign the proposed project to install a shorter line which cost $44K.

- Cost Reduction: $106K.

Midstream Processing Facility – Recycle Regen Water to DI Water Tank Project

Working with Operations to reduce the costs to truck in DI water and dispose of regen water. Looking to install a permanent filtration system or to use a mobile filtration system. This project is still in the works. Final results to come.

- Estimated Cost Reduction: $200K/Year per Facility

Midstream Processing Facility – Alarm Management Project

Originally contracting work to a consulting firm. Able to complete most of the work in-house. Final results to come.

- Estimated Cost Reduction: $142K (Potential to apply to each site)

Facilities Engineer/Project Manager 06/2012 – 03/2016

Compressor Installation Project ($1.1MM)

- Received Special Recognition Award for complex project, excellent planning & execution, completing safely, and under budget.
- Project manager for first compressor station expansion project executed by the Small Projects Team. Able to significantly reduce costs by re-using current equipment and doing more with less.
- Worked with various teams to come up with Economic Evaluation for the compressor installation. Obtained cost estimates, created a schedule, and presented to the Leadership team. Received approval to move forward.
- Utilized current compressor in storage (Cost savings ~$192K/yr).
- Validated condition of current equipment (dehy and contactor) and reviewed capacities. Was able to re-use and did not need to buy new equipment (Cost savings ~$125K).
- Ensured project was in compliance with the permitting process and effectively dealt with noise issues.
- Reduced project costs from $1.5MM to $1.1MM.

Wellpad Compressor Installation Project ($900K)

- Installed first large well pad compressor executed by the Small Projects Team.
- Presented Economics to the Leadership team and received approval to move forward with the project.
- Worked with USA Compression and evaluated different compression options. Determined could use current compressor in storage (Cost savings ~$192K/yr).
- Worked with Environmental & Regulatory and USA to reduce emissions to be exempt from permitting. Ensured a land development permit is not required, and the county was satisfied on how/what we were installing at the well pad.
- Worked on a lower cost solution to install a building and fire and gas at the Gee. After looking into various options, was able to provide Operations a solution they were pleased with within the given budget.

Bradford Tank Removal/Tank Winterization Project – Satisfy proposed 2015 DEP regulation and satisfy fountain and HAZOP item ($900K):

- Lead efforts to develop a plan to remove 75 underground brine tanks by the end of 2014 and avoid the proposed DEP regulation that was anticipated to come out in 2015. Project budget was $1.47M. Cost savings to remove the underground tanks and mitigate the future risk of the upcoming/pending regulation was $7.5M.
- Worked on a removal strategy with Operations, Environmental & Regulatory, and the Pennsylvania Department of Environmental Protection (PADEP) to come up with an approach that integrates the E&P Company and PADEP's approved practices, while staying within the allotted budget and time frame.
- Successfully removed 75/75 underground tanks, and plan on having the final 9 tanks completed by the end of 2014. Anticipated spend for this project is $900K. We were able to further cost savings with utilizing in house staff eliminating outside contracting work.

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Heat Tracing Well and Compressor Sites ($1.2MM)

- Heat tracing problem areas for 9 freshwater injection and 14 compressor station sites to eliminate glycol heater rentals. OPEX savings over $1M/yr.
- Worked with Ops to develop a more user friendly solution on heat tracing insulation to reduce maintenance costs.

Permanent Power to Well and Compressor Sites ($1MM)

Ran economics and evaluated costs of installing generators vs municipal power at each well pad and compressor site. Installed municipal power at 12 sites and generators at 4 sites.

- Was able to troubleshoot and fix the current Arrow generators at these sites to refrain from buying new generators.
- Able to troubleshoot and fix generators to pass emissions testing at all 9 sites to comply with JJJJ regulatory requirements.
- Cost savings ~$600K

Dehy Glycol Maintenance Program

- Owned glycol problem and worked with Operations to develop a preventative maintenance program. Attended Gly-Tech training, researched and developed procedures to change out filters and sample glycol. Since program has started, seen decrease in dew point issues and no burnt glycol cases. OPEX savings on glycol change outs ~$16K + labor costs per change out.
- Since program has been put in place, able to take back over maintenance in house. OPEX savings ~$200K/yr. Reduced sampling from quarterly to semi-annual. Opex savings ~11,200/yr.
- Changed brand of glycol inhibitor. OPEX savings – Previous inhibitor costs $186 to treat 1000 gal of TEG. Current inhibitor costs $23.60 to treat 1000 gal of TEG.
- Working with Cameron to replace filter canisters that were causing filters to break apart. OPEX savings ~$31K per filter blowout.
- Reduced deferment and increased reliability.

Freshwater Injection At Well Pad Sites ($750K)

- Installed freshwater injection to eliminate fresh water pump downs at 5 well sites.
- Opex savings ~$456K/yr.
- Worked with Operations to design a maintenance friendly tubing bundle design for heat tracing.
- Worked with Operations to do a Root Cause Analysis on issues with the 2012/2013 Heat Tracing/FWI. Removed second water tank to eliminate freezing issues, reprogrammed controllers to eliminate sites going down on overcurrrent, switched to a cheaper, more maintainable insulation.

Oil Maintenance Program

Brought compressor oil and glycol maintenance programs in house. OPEX savings ~$742K/yr.

- Added automated louvres to help control temperature of the coolers and reduce compressor fouling. OPEX costs savings ~$8K per compressor cleanout.

LEADERSHIP EXPERIENCE

- **Women In Energy (WEN):** Participates in WEN Pittsburgh networking group to stay current with what other companies are doing in the Industry.

- **Shell Appalachia Focal Point for SurfNet:** Promoted SurfNet by communicating with upper management throughout various teams in Shell. Organized and coordinated monthly meetings by working with facility engineers from other assets.

- **HSSE - Leader Standard Work:** Conducted monthly field visits, observed morning meetings, and audited shift handovers while serving as piloting leader for engineers.

- **Marathon Petroleum/Shell Campus Ambassador Program – Penn State University:** Led focal point for Society of Women Engineers and Women in Engineering Program Orientation (WEPO). Attended the WEPO Networking Reception and Career Dinner with incoming freshman students. Attended the fall career fair and various networking events to recruit potential candidates for internships and full time positions.

- **Shell New Professionals Network President:** Organized events to increase collaboration of young professionals within the office.

- **Catalyst Connects Event:** Nominated to attend the Catalyst Connects Event on behalf of Shell; this networking discussion intended to bring high potential women together with speakers considered to be role models.

- **WAVE Leadership Team**: Attended monthly meetings to coordinate various community service events.

EDUCATION

Bachelor of Science in Chemical Engineering/Minor in Bioengineering, University of Pittsburgh, Pittsburgh, PA (2009)

CERTIFICATIONS

Engineer in Training (E.I.T)
Marathon Green Belt Certification

ADDITIONAL SKILLS

Hysys	VMG	Promax	Unisim
Delta V	SAP/Oracle	Pipesim	Microsoft Project
Procore	Nvision	ISNetworld	Track
Intelex			

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