

Stephen J. Parmentier, PE

| 303-668-4491 | stephen@vpeinc.com |

Expertise Mr. Parmentier has 8 years of progressive project engineering experience consulting on a wide range of oil and gas pipeline projects, including significant field experience. Mr. Parmentier has extensive experience with pipeline hydraulics, pipeline integrity management, and serving as project engineer including both project management and detailed design functions. Mr. Parmentier is a registered professional engineer in five states. Mr. Parmentier is especially skilled at pipeline hydraulics, including crude oil, natural gas, and refined products, as well as multi-phase flow.

Education / Military	Master of Science – Engineering with Mechanical Specialty, Colorado School of Mines, Golden, Colorado: Dean’s List Awarded	2009
	Bachelor of Science – Engineering Physics, Colorado School of Mines, Golden, Colorado: Colorado School of Mines President’s Scholarship & Dean’s List Awarded	2008

Career History and Sample Accomplishments

Vice President, Vanderpool Pipeline Engineers Inc	2016 – Present
<ul style="list-style-type: none"> • Current and recently past projects include the design and development of remote, automated, above ground pipeline heating system in Alaska as well as a project estimating and feasibility study of a refined products pipeline and terminal in Houston, TX. 	

Project Engineer, PE, Vanderpool Pipeline Engineers Inc	2013 - 2016
<ul style="list-style-type: none"> • Assisted with design and served as on-site project engineer during construction of three parallel pipeline system including upstream and downstream facilities in the Rocky Mountain region. Duties included initial hydraulics, surge analysis, piping stress analysis, procurement support, drawing creation and sealing, developing cause & effect diagram, facilitate potential hazard analysis (PHA), project tracking (cost, schedule, production), hydro-test evaluation, construction record maintenance, generating as-builts, developing a nitrogen purge plan, and developing a commissioning plan. • Developed, implemented, and supervised an automated hydro-static testing and evaluation protocol for pipelines. This involved managing eight engineers and technicians over a period of two years to be on-site and evaluate over 350 hydro-tests with each test being signed and sealed by a registered professional engineer. • Served as subject matter expert (SME) for Internal Line Inspections (ILIs) for over fifteen different ILIs. I have written and edited integrity management plans (IMPs), completed ILI repair analyses, anomaly grown analyses, dig repair method selection, dig and repair documentation, and statistical tool vendor error analysis for a variety of ILIs. • Conducted numerous hydraulics studies, economic studies, and detailed mechanical designs of pipelines & pump stations for liquids, natural gas, and refined product systems. 	

Project Engineer, Vanderpool Pipeline Engineers Inc	2009 – 2013
<ul style="list-style-type: none"> • Wide-Ranging experience in steady state hydraulic modeling of liquids and natural gas pipelines including two phase flow and surge analysis for crude mainlines in Texas and North Dakota as well as gathering systems in North Dakota. • Experience in projects involving pipeline capacity increases, pipeline regulatory compliance, pipeline integrity management, project tracking (cost, schedule and production), facilitating PHAs, and pipeline maximum operating pressure studies of existing systems. • Executed internal line inspection project plan, including associated dig and repair program, for 135 miles of pipeline • Experience in station mechanical design to layout station with ease of operation in mind for eight pump station projects in Texas. 	

Stephen Parmentier

Engineering Aide, Vanderpool Pipeline Engineers Inc

2007 – 2009

- Responsible for fluid hydraulic calculations and modeling of cross-country liquids and natural gas pipelines. Also developed pump sizing models. Calibrated models with operations control center.
- Trained client employees on use of commercial hydraulics model.
- Managed cost control for \$40 million capital pipeline expansion project.

Engineering Intern, Kinder Morgan CO2 Company

2008

- Completed hydraulic analysis of proposed pipeline network expansion.
 - Field investigation of flow line capacity restrictions and solution development.
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Licensing, Certifications and Specialized Training

- Registered Professional Engineer in 2013. Currently registered in five states; Colorado, Texas, The Commonwealth of the Northern Mariana Islands, Idaho, and Louisiana.
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Professional Affiliations

- American Society of Mechanical Engineers – Member
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Speaking Engagements and Publications

- More Precise Hydro-Static Test Evaluation of High Pressure Petroleum Pipelines Using Automated Data Collection Techniques. David Vanderpool and Stephen Parmentier, authors.
 - Technical paper published in April 2015 for ASCE Pipelines 2015 Conference, Baltimore, MD. Oral presentation given August 2015.
 - Oral presentation for API Tank, Valves and Piping Conference, October 2015, Las Vegas, NV.