

Terry Thomas, P.E.

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970-318-0428 <u>tthomas@vpeinc.com</u>		
Expertise	Mr. Thomas is a pipeline engineer responsible for facility project developed design, and construction support for client pipeline transmission and gassystems. He has experience in pipeline, petrochemical and infrastructurengineering. He has experience in difficult topography with horizontal drilling and full project execution. Mr. Thomas has more than 30 years of design, construction and operations experience.	thering e design Iirectional
Education	Bachelor of Science – Mechanical Engineering, Texas Tech University, Lubbock, Texas	1971
Professional Expe	erience	
Pipeline I	E ngineer, Vanderpool Pipeline Engineers Inc.	2013 -
 Pipelin 	e and pipeline facility project development, design, and construction support for pipeline transmission and gathering systems.	Present
 Respondesign 	Pipeline Engineer, Saddle Butte Pipeline, Colorado, North Dakota nsibilities included project development and execution, pipeline engineering and , and commercial support for multiple crude and gas gathering pipeline systems in region of North Dakota.	2011 – 2012
Owner, D	ouble T Square, LLC.	2009 – 2010
 Pipelin 	e engineering and consulting.	
 Specia 	lized pipeline design and operations solutions.	
	Pipeline Project Manager, Freeport LNG Development, Texas	2005 – 2008
includi overla to 5,00	nsible for successful execution of a 9.6 mile 42 inch natural gas pipeline project, ng meter station and related pipeline projects. Pipeline installations included and, marsh, and open water topography and horizontal directional pipeline drills up 100 feet.	
regula constr resour	ed client's objectives, instructions, and programs, including FERC resource reports, tory interface, project procurement, cost estimating and control, design, and uction contract bid, award, and administration. Obtained and managed project ces including consultants and inspection.	
 Pipelin client object 	Sector Project Manager, Mustang Engineering, Texas e Sector Project Manger, Mustang Engineering, responsible for interfacing with organizations, determining pipeline systems and facilities to meet client's business eves, and preparation of project proposals.	2002 – 2005
selecti	ed the preparation of Project Plans, including: pipeline right-of-way and route on, permitting, environmental compliance, FEED, project schedule, cost estimates, ow, and procurement plans.	
resour procur contra	nined and managed resources required for project execution, including: regulatory ce plans, survey, right-of-way, permitting, specialized consultants, material ement and shop inspection, engineering studies, construction specifications and cts, construction administration and inspection.	
·	nsible for business development with Dow Chemical, Enbridge, and Freeport LNG.	
• Projec	ts included: O Multiple pipeline and storage projects for light hydrocarbon plants Freeport and Stratton Ridge, Texas	
	GulfTerra Cameron Highway Pipeline crude oil meter stations, Texas City,	

Conroe, Texas

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Enbridge 107 mile, 36-inch natural gas Double D Pipeline, East Texas ExxonMobil gas gathering and conditioning pipeline facilities, Katy and

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 Cheniere Energy 36-inch and Freeport LNG Development 42-inch natural gas pipeline and plant site development for LNG Marine Import and Storage Terminal, Quintana and Freeport, Texas

Unit Manager, Vice President, President, River Water Operations and Gulf Coast Pipeline, Dow Chemical, Louisiana and Texas

- Management of River Water Operations and Gulf Coast Pipeline in support of Dow Chemical's Louisiana Division and Texas Operations and Hydrocarbon and Energy commercial ventures.
- Systems include approximately 3000 miles of pipelines, pump and meter stations, and river water reservoirs and canals.
- Implemented company Strategic Blueprint objectives in Pipeline including delayering, work consolidation, and cost performance improvements. Reduced structural costs by 25% and staff by 30%.
- After Dow acquired Union Carbide, directed integration of Seadrift, UCAR, and Dow Gulf
 Coast Pipeline into one pipeline business. Achieved organization and facility synergies,
 realizing several million dollars in cost savings, including the sale of some assets, while
 adding business flexibility and system capability. Combined facilities included 5,500 miles
 of chemical, gas, and petroleum liquids pipelines, numerous pump and meter stations,
 salt dome storage, and business, operations, and maintenance centers.
- Retired from Dow December 31, 2001

Plant Manager, Utility Systems and Infrastructure Texas Operations, Dow Chemical, Texas

1989 – 1992

1992 - 2001

- Management of organization and utility production and distribution systems, pipeways, and infrastructure providing services to over 80 production plants, power plants, and research units in Dow Chemical's Freeport petrochemical complex.
- Implemented new Operating Discipline, improving productivity, cost performance and safety performance of managed units. Successfully implemented capital and maintenance improvements in instrument air, potable water, seawater, natural gas, nitrogen, plant utility water, firewater, sewer, and storm water distribution and production systems.

Pipeline District Manager, Dow Gulf Coast Pipeline, Texas

1985 – 1989

 Management of operations and maintenance of Dow's pipeline and river water systems and operating units in support of Dow's Texas Operations. Implemented new Operating Discipline and improved cost performance of Gulf Coast Pipeline.

Department Head, Capital Projects Coordinator and Principal Pipeline Engineer, *Dow Pipeline and Pipeline Technology Center, Texas*

1979 – 1985

- · Supervised ROW/Land Department
- Capital Projects Coordinator for Dow USA. Partial list of executed projects:
 - Project Management for gas pipeline systems constructed in Magnolia, Arkansas and Pittsburg, California.
 - Development and design of Propane Marine Import and Export Terminal for Freeport.
 - Design of LPG, olefin, and gas pipelines, pump, and compressor stations in Texas, California, and Louisiana. Transmission Pipelines from 4 to 36 inch with MAOP to 2160 psi and up to 160 miles in overland, marsh, bay/ship channel, and urban locations.
 - Conceptual design, development, and cost estimates for several pipeline projects, including two major projects: a \$400MM lignite gas or slurry pipeline system in Texas and an \$800-\$1,200MM gas-liquids pipeline system in Alaska, Prudhoe Bay to Anchorage or Valdez.
 - Created design standards and trained engineers in pipeline design and technology.

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 Project Engineer, Dow International and Dow Canada, Alberta Supervised development, design, procurement, and construction for Infrastructure and Offsite Facilities for Dow Chemical Western Canada Division expansion and Site Project Engineer for VCM/EDC, Glycol, Chlorine, and Power Plants. Contracted for design work with Alberta consulting firms. 	1976 – 1979
 Project Engineer, Dow Engineering and Construction Services, Texas Pipeline, Salt Dome, Site Infrastructure, and Petrochemical Plant capital projects, including process design, development, facility engineering, pipeline engineering, and project engineering. 	1973 – 1975
 Construction Supervisor, Dow Engineering and Construction Services, Texas Dow Chemical Oyster Creek and Texas Division general mechanical, infrastructure, marine, and civil construction projects. Chlorine Plant operator during 3 month union strike. 	1971 – 1972

Licensing, Certifications and Specialized Training

- Registered Professional Engineer, Colorado # 36335, Louisiana # 29955, New Mexico # 15539, Texas # 81391
- · Dow Chemical Superintendent College
- Management, Facilitator, Trainer, Leadership, Organization Design
- Goal Setting, People Development, and Performance Assessment
- Pipeline Safety Seminars, OSHA Safety Regulations
- · Project Scheduling and Management
- · Plant and Pipeline Technology and Design
- · SQC and Quality Performance, Six Sigma
- · Cost Estimating and Economics
- Computing Word, Excel, Project, PowerPoint
- Pipeline DOT Regulations, Permits, and Practices
- Texas State Water Law
- Environmental Regulations, Permits, and Practices

Professional Affiliations

- Board of Directors, Member and Chair Industrial Panel, Texas Water Conservation Association
- Member and Chair of Water Rights Committee, Texas Chemical Council
- Board of Directors, Treasurer/Secretary, Chair Finance Committee, Chair Architectural Review Committee, Fairway Pines Estates Owners Association.
- Finance and Building Chairman, Constructed new Methodist Church Sanctuary and Education Buildings, Houston

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