Curriculum Vitae Galen M. Cotton

Applied Metrology Resources, LP
21 Vick Spring Rd
Huntsville, TX 77340

Phone 713-545-3933
Fax 713-464-3794
E-mail gmcotton@swbell.net

Summary

Business owner, project manager with an extensive background in field automation, liquid and gas measurement. Extensive experience in strategic planning, product strategy, product development, project management and team building. Knowledge of development methodologies, inventor of measurement and proving technologies with multiple patents in the flow measurement field.

Benchmarks

2001 – Present Houston, Texas

Owner – Applied Metrology Services, LP

On-going relationship to assist multiple companies to determine viable approaches, define requirements, document and organize technical plans for loss control, measurement and automation in oil & gas production, refining, terminals, and pipelining operations. Clients with active measurement and gain/loss mitigation contracts include;

Enterprise Products

Enterprise Products Partners L.P. is one of the largest publicly traded partnerships and a leading North American provider of midstream energy services to producers and consumers of natural gas, NGLs, crude oil, refined products and petrochemicals. The partnership's assets include approximately 50,700 miles of onshore and offshore pipelines; 190 million barrels of storage capacity for NGLs, petrochemicals, refined products and crude oil; and 14 billion cubic feet of natural gas storage capacity. Services include: natural gas gathering, treating, processing, transportation and storage; NGL transportation, fractionation, storage, and import and export terminals; crude oil and refined products transportation, storage and terminals; offshore production platforms; petrochemical transportation and services; and a marine transportation business that operates primarily on the United States inland and Intracoastal Waterway systems and in the Gulf of Mexico.

NiSource Midstream

Operations in Kentucky, Maryland, Massachusetts, Ohio, Pennsylvania, Virginia, Indiana operating gathering, transmission and storage of natural gas. NiSource Midstream Group announced a joint venture, Pennant Midstream, with affiliates of Hilcorp Energy Company to construct the gathering and processing facilities to support shale gas and liquids production in northeast Ohio and western Pennsylvania.

Eagle Rock Energy

Eagle Rock owns strategically-positioned natural gas gathering and processing assets in four significant natural gas producing regions: the Texas Panhandle, East Texas/Louisiana, South Texas and the Gulf of Mexico.

Marlin Midstream

Marlin Midstream, LLC is a midstream energy company that offers natural gas gathering, compression, dehydration, treating, processing, hydrocarbon dew point control and marketing services to producers, marketers and third party pipeline companies.

Rosetta Resources

Rosetta Resources is an independent oil and gas company based in Houston, Texas engaged in the exploration, development and exploitation of onshore energy resources in the United States of America. We are one of the leading producers in the Eagle Ford shale in South Texas and hold an exploratory position in the Southern Alberta Basin in northwest Montana.

Plains Exploration and Production

We are an independent oil and gas company engaged in the activities of acquiring,

developing, exploring and producing oil and gas properties primarily in the United States and were formed as a Delaware corporation in 2002. We own oil and gas properties with principal operations in:

- Onshore California;
- Offshore California;
  -the Gulf Coast Region, including Eagle Ford Shale and Haynesville Shale;
- the Gulf of Mexico; and
  the Rocky Mountains.

Assets in our principal focus areas include mature properties with long-lived reserves and significant development opportunities as well as newer properties with development and exploration potential. We believe our balanced portfolio of assets and our ongoing hedging program position us well for both the current commodity price environment and future potential upside as we develop our attractive resource opportunities, including our California, Eagle Ford Shale, Haynesville Shale and Gulf of Mexico assets.

Owner – Applied Metrology Resources, LP

On-going business management and development to define, document and produce time correlation proving technologies, gas and liquid flow computers, and LACT unified controllers. Primarily responsible for determination of technical requirements, market requirements and developing long term strategic plan. Introduced the first time correlation proving computer 2012; TruProof, specifically designed to improve repeatability and reproducible performance in Coriolis and Ultrasonic flow meters. Products presently distributed by Coastal Flow Measurement.

Gas Certification Institute – Houston TX

On-going relationship to provide professional instruction in the art and science of flow measurement through preparation and presentation of both fundamental measurement and advanced measurement curriculums.

International School of Hydrocarbon Measurement - University of Oklahoma

On-going relationship to provide instruction and publications furthering the university's goal of providing a practical, and technical measurement resource to students throughout industry and academia. Participating since 1986.

American Petroleum Institute

Participation in the standards generation and review process incorporated in the Committee on Petroleum Measurement and its attendant subcommittees and working groups with 20+ years of experience. Currently active in the following working groups;

MPMS Chapters 4, 4.5, 5.3, 5.6 ,5.8, 9.4, and 14.8

Member: Committee on Measurement Education and Training

Committee on Liquid Measurement Liaison to Chapter Working Groups 2-6,12-13,16,18, and 20-22

1999-2001

- Limited Partner, Caldon, Inc. – Pittsburgh , PA

President, Petroleum Division – Caldon, Inc. (presently Cameron)

Performed a detailed market survey of the North American market for precision liquid ultrasonic flow measurement. Developed liquid UFM technology applications, spearheaded the draft and

acceptance of MPMS Chapter 5.8 standards for ultrasonic flow meters and developed US and international distribution for the Caldon petroleum product line.

1990 – 1991 Director of Petroleum Sales for the Western Hemisphere, Krohne

Boston, MA and Dortrecht, The Netherlands

Facilitated requirements development and project participation process. Assisted with development of both the specification and response to request for proposal for Petroleum Measurement Systems throughout the western hemisphere. Managed the petroleum representative network and developed distribution.

1985 -1990 Houston General Manager - Moorco, Inc, (Smith Meters)

Operated Fluid measurement Techniques, a wholly owned distributor company providing packaged measurement stations, Smith Meter Products and service to Houston and surrounds. Specifically charged with improving cash flow, inventory control and profitability in preparation for sale of the concern while managing a staff of 14. The two years following the launch, increased company revenues four fold. Business sold on schedule for 5 times revenue and with all personnel retained by the new owner.

1980 – 1985 Engineering Manager Flow Controls and Automation

Daniel Industries, Houston TX.

Managed an engineering staff of 13 with the responsibility for development and production of the Danload control valves, Dantrol valves and was responsible for the initial development of the DanLoad terminal automation control systems and meters.

1972 - 1980 Brooks Instruments Division, Emerson Electric Co.

Statesboro, Ga. and Cleveland, Oh.

Two years in engineering with responsibilities for turbine meter, positive displacement meters and valves. Four years as supervising product manager for positive displacement meters. Two years as District Manager for Ohio with offices located in Cleveland, Oh.

Education

1972 Georgia State University Atlanta, Ga

Publications

"*Electronic Temperature Compensation*"
International School of Hydrocarbon Measurement , 1984

"*Pulse Interpolation*"
International School of Hydrocarbon Measurement , 2007

"*Polymer – Grade Ethylene Measurement*"
International School of Hydrocarbon Measurement , 2007

"*Proving Liquid Meters with Microprocessor Based Pulse Output*"
International School of Hydrocarbon Measurement , 2008

"*Proving using Density Correlation*"
International School of Hydrocarbon Measurement , 2009

"*Dense Phase Measurement*"
International School of Hydrocarbon Measurement , 2009

"Fundamental Barriers to Proving Microprocessor Based Liquid Flow Meters"
Atchafalaya Flow Measurement School, 2009

"Theory and Application of Pulse Interpolation to Prover Systems
International School of Hydrocarbon Measurement , 2012

Patents

Positive Displacement Flow Meter - 5,275,043
Flow Meter Prover System and Method – 7,373,798 B1
Flow Meter Prover System and Method - 7,395,690 B2