



Harold E. McGowen III, PE

CEO & Principal Engineer — Navidad Energy Advisors

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Areas of Expertise

- Petroleum Engineering
- Completion Engineering
- Drilling Operations and Engineering
- Big Data Engineering Analysis
- Engineering Economic Analysis
- Horizontal Drilling
- Multi-stage Hydraulic Fracturing
- Mechanical Engineering
- Natural Gas Processing
- Oil & Gas Engineering
- Oil & Gas Well Integrity
- Oil & Gas Field Infrastructure
- Oil Field Metallurgy
- Downhole Oil Tools
- Oil & Gas Patent Analysis
- Pipelines and Gathering Systems
- Artificial Lift Systems
- Oil & Gas Environmental Issues

Summary of Technical Capabilities

- Registered professional engineer with over thirty-six years of experience
- Expertise in drilling engineering, completion design and diagnosis, production engineering, artificial lift, and reservoir evaluation
- Skilled in the application of information technology to petroleum engineering, and forensic analysis of large data sets

Employment Summary

- 2013–Pres. CEO, Navidad Operating Company, LLC & Navidad Energy Advisors
- 2003–2015 President and CEO, Navidad Resources, LLC and NRI, Inc.
- 2001–2003 President, .052 Petroleum Engineers, Tyler, Texas
- 1997–2001 Senior VP of Engineering Services, Signa Engineering Corp., Houston, TX
- 1992–1997 President, NaviData Systems, Inc., Kingwood, TX
- 1988–1992 Engineering Manager, Trinity Resources, Inc., Houston, TX
- 1984–1988 Petroleum Engineer, Union Pacific Resources Company, Houston, TX
- 1982–1983 Engineering Technician, GEO-Vann, Inc., Katy, TX

Accreditations

- Registered Professional Engineer (PE) in the State of Texas, since 1989

Awards

- Texas Independent Producers and Royalty Owners – Top 15 Best CEOs - Medium Size Producer
- Aggie 100 -Fastest Growing Aggie Run Company- #1 2012, #4 2013, #3 2014

Memberships

- Society of Petroleum Engineers (SPE), Since 1984

Education

Bachelors of Science Degree in Mechanical Engineering, 1982

- Texas A&M University, College Station, Texas

Publications

- "Case Study: Using Managed Pressure Drilling and Oil Based Mud to Efficiently Drill an Extremely Thick and Highly Fractured Carbonate Sequence Under an Extremely Thick and Highly Sensitive Laminated Shale", SPE/IADC-173021, 2015
- "Effective Methods of Engineering Outsourcing", SPE 84436, presented at SPE Technical Conference and Exhibition in Denver, CO, October 2003
- "Applicability of Underbalanced Drilling to Multilateral Junctions", Presented at IADC UBO Technology Conference, Houston, Texas, August 2000 (with George Medley)