



Eugene Sweeney, P.E.
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(832) 267-6803

Education

Massachusetts Institute of Technology - BS Mechanical Engineering.
University of Michigan- MS Industrial and Manufacturing Engineering.
Texas A&M University - Masters Petroleum Engineering.

Summary of Experience

- Acknowledged industry expert with over 25 years of extensive experience in Engineering and Operations leadership roles. Subject Matter Expert in loss of well control remediation, blowout and fire remediation, asset modeling and valuation.
- Development of oil and gas asset valuation analysis which has been used for basis of acquiring and divesting numerous assets.
- Provide engineering and operational support and leadership for extensive well intervention programs to both mitigate risk and increase production.
- Mastery of multiphase modeling and engineering analysis to determine reservoir flow and production capabilities.
- Extensive experience and responsibility in management of large capital and safety-critical projects
- Led well control and blowout remediations (onshore and offshore, including deepwater)
- Led industry forums and learning sessions. Industry advocate representative for BP and Cudd Well Control.
- Provided expert witness and analysis for well control incidents, oilfield operations and economic analysis
- Patents include analytical flow methods and downhole tool design
- Recent Publications- Novel Analysis and Design of Relief Wells Considering 3D Effects - SPE 191518; Active Acoustic Ranging to Locate Two Nearby Wellbores in Deepwater Gulf of Mexico- SPE 187313
- Awarded MIT George Leness grant

Certifications

- Licensed Texas Professional Engineer (Petroleum) # 102422.
- SPE Certified Petroleum Engineer
- Selected for and completed numerous senior level leader training programs including BP's Leadership Mastery training program, Supervoice communication training, and Faculty Essential certification.
- Petroleum Resource Management System
- US Securities and Exchange Commission Regulations for Oil and Gas Assets
- Economic Evaluation of Oil and Gas Assets
- Numerous economic and engineering software packages including Olga, PHDWin, Star



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Work Experience

Consultant/ Expert Witness

2002-present

Support various oil and gas clients and operators with:

- Determination of proper oilfield operations and practices
- Evaluation of safety critical operations
- Root cause analysis of well control incidents, blowouts and lost time events
- Economic valuation of assets in both domestic and international plays
- Application of reservoir modeling and field development
- Advise extensively on multi-million dollar Acquisition and Divestitures.

Cudd Energy Services

2018-2020

VP Well Interventions

Responsible for the technical, safety and financial oversight of Domestic and International business units in underbalanced operations, well control and blowout operations. Responsible for P&L on all business units. Quarterly financial and operational reporting to Board. Instill procedural discipline and control of work. Develop and support technical offer and operator recommendations to increase production and field economics.

Key Achievements:

- Turnaround from pre-tax negative to positive during extremely challenging business environment
- Developed and implemented new engineering offer which is cornerstone of marketing and leading to highest revenue year in the discipline
- Drove implementation of Standard documents, competency assessment program and continuous improvement program
- Expansion of international services, including blowout response and petroleum engineering functions

BP

Central Operations/ Engineering Team Lead

2011- 2018

Led BP's Global Well Control Team in the wake of the Macondo incident. Led team in organizational and technical response to root causes of Deepwater Horizon incident. Continuous improvement of safe, efficient drilling practices and evaluation to ensure optimal reservoir deliverability.

Ensured adequate team capabilities and budget management. Managed knowledge discipline to ensure learnings are codified into standards and practices. Mentored team members and managed their development.

Key Achievements

- 70 % Reduction in well control events over tenure
- Review and assist in well design and contingency planning for BP's most difficult deepwater wells
- Led Incident Investigations and Reviews for all well control events
- Developed BP Global Engineering online Toolkit
- Author and maintain BP global manuals and standards
- Developed BP's state-of-the-art Enhanced Well Control Training program which focused on situational learning for offshore well control events
- Analysis and development of solutions to drilling, completions and interventions trouble time
- Computational Fluid Dynamics (CFD) and multiphase fluid dynamics analysis
- Participate in peer reviews and provide technical analysis and problem resolution of BP's most difficult operations
- Industry advocacy and presentation to upper management
- Leading technological development of engineering software
- Assist in deployment of Managed Pressure Drilling within BP
- Oversight of technical contracts for intervention services



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Cudd Pressure Control

Senior Engineer

2010-2011

Firm's Head Engineer responsible for ensuring quality of well control engineering work. In addition to engineering and field solutions, remit included:

- Verifying suitability of completions and interventions design and production enhancements
- Engineering and field validation equipment
- Developing engineering and safety guidelines and procedures for onshore and offshore customers
- Interacting with customers to define various projects' scopes and economics

FMF Engineering, Inc

Founding Partner. Petroleum Engineer and Project Manager

2007-2010

Oversaw all petroleum engineering functions including reserves analysis, equipment design, high pressure piping design for surface pumping systems, production system design and reservoir characterization. Project management oversight including AFE generation for diverse projects in drilling and completions.

Griffin Asset Management

Senior Engineer

2003-2007

Chief Engineering duties for this fund which invested in oil and natural gas properties. Produced reserves estimates; determined and advised on economic valuations. Reviewed and approved operational and financial well planning. AFE review and approval. Presented findings and recommendations to investors.

Brek Energy

Board Member

2003-2007

Board member and member of management committee of this public natural gas and oil company. Advised on all wellhead investments. Analyzed wellhead risk as well as production data to determine future production estimates and completion and stimulation effectiveness.

Toronto Dominion

1999-2003

Founding partner of Bushwood, which was acquired by TD in 2001. Developed and oversaw energy asset valuation trading strategy based on physical asset value of various companies.

Professional Edge

1993-1998

Oil and natural gas consultant and lead risk manager. Performed analysis of operator's assets in order to determine reserves valuation used for bond purchases.

Lord Corporation

1990-1993

Consulting engineer for various automotive customers. Responsibilities included designing pump systems for high-viscosity and difficult to pump materials under varying design constraints. Change agent and champion for lean principle application.

US Navy

1989-1990

Reliability engineer stationed at Naval Warfare Assessment Center in Norco, CA. Responsibilities included addressing fire control trouble and failure reports raised during nuclear-capable submarine (SSBN) deployments.