

EMPLOYMENT

Caerus Oil and Gas

Director of Reservoir, Analytics, and Development

Oct 2019 – Present

- Fulfilled board directive to create and implement a development process, a risk and uncertainty model, and management strategy, allowing for an efficient and transparent evaluation of over 10,000 development locations
- Evaluated and integrated three acquisitions increasing location inventory by 125%, adding over \$600MM in asset value, and reducing debt leverage by nearly 50%
- Trained staff and developed a machine learning workflow to improve the accuracy of well performance predictions and optimize a \$400MM development schedule
- Coded a comprehensive Monte Carlo simulation to capture robust probabilistic economics and returns on development opportunities increasing the accuracy of forecasted returns by 26%
- Present annual reserves audit, development process, ML modeling, and business development initiatives to the board, executive team, and third parties

PDC Energy

Senior Business Development Engineer

Mar 2019 – Oct 2019

Business Development Engineering

Apr 2018 – Mar 2019

- Engineered and executed on a \$1.7B merger with SRC Energy, adding \$400MM in free cash flow
- Implemented a boosted regression tree in Python using a multi-disciplinary data set resulting in operational improvements to well design, execution, and economics
- Coordinated with IT on three advanced analytics applications across the organization
- Facilitated dialogue across departments, served as a liaison between the asset teams and executive leadership
- Coached three junior staff on technical evaluations and presentations and trained other teams on economic metrics and deal considerations

Caerus Oil and Gas

Corporate Engineering and Operations Planning Manager

Aug 2017 – Apr 2018

- Built new department by recruiting and staffing team with three new employees
- Partnered with Finance to establish an annual \$200MM+ capital program
- Managed and assessed over fifty A&D projects including corporate sales, asset divestitures, and bankruptcies
- Conducted engineering valuation and integration of a \$735MM acquisition, tripling the company size
- Led engineering effort for credit facility syndication resulting in over \$1 billion committed

Senior Reservoir Engineer

Nov 2016 – Aug 2017

Reservoir Engineer

Sep 2015 – Nov 2016

- Engaged a cross-functional team including Geology, Accounting, Marketing, Land, and Operations to rigorously analyze and value assets, growing company asset base by 60%
- Automated decline curve analysis with a Markov chain Monte Carlo simulation enabling rapid assessments

Operations Engineer

Oct 2013 – Sep 2015

- Managed two field offices and executed operations in three fields including repair and maintenance, artificial lift changes, and environmental and regulatory compliance

Business Development Engineer

Dec 2012 – Oct 2013

Reservoir Engineering Analyst

Dec 2011 – Dec 2012

FIML Natural Resources

Engineering Technician

May 2010 – Dec 2011

EDUCATION

University of Denver

Accelerated Leadership Experience

Fall 2021

Stanford Online

Machine Learning Certificate

Summer 2018

Energy Generation Leadership Program

Class of 2016

University of Colorado Boulder

Bachelor of Science, Chemical Engineering

Aug 2005 – May 2009

EXPERTISE

Python; R; MATLAB; Excel; SQL, SQL Server, MySQL; Django; Spotfire

Presentations; corporate strategy and planning; mergers, acquisitions, and divestitures