

Steven Scott Barrow, P.E.

921 S Price Farm Ct., Midway, UT 84049 || (801) 722-4364 || steven.s.barrow@gmail.com

Education	Brigham Young University (3.43 GPA) - Chemical Engineering • GMAT Score 730 • Professional Engineer License #137006, Texas Board of Professional Engineers	April 2015
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Skills	Programming Languages: VBA, Matlab, HTML, Python, Bash (Linux Script), Javascript Simulator Experience: PIPESIM, Aspen HYSYS, ChemCad, MathCad, ProMax, UniSim Flare, UniSim, VMG Sim, Ariel Compressor Performance, PHAST Languages: Spanish (fluent), English (native) Professional Competencies: Lean Six Sigma (White Belt), Process Safety Management (PSM), Overpressure Protection (PSVs, RDs, API 520/521), Fired Heaters and Burner Management Systems, Water Disposal and Injection, Capital Projects, Environmental Compliance, Midstream Gas Gathering & Processing, Compression, Wellhead Facilities, P&IDs, Blockchain, Non-Fungible Tokens (NFT), Scrum Master / Agile Development
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Work Experience	Owner, Senior Principal Engineer <i>Patronus Energy</i> – Edmond, OK	June 2020 - Present
	<ul style="list-style-type: none">• Completed projects engaged in PSM, Risk Management, Due Diligence, and Process Engineering• Hired 8 engineers in a single month and developed a massive number of internal SOPs to effectively onboard, train, and lead a growing engineering team• Founded the Vanguard Patronus Technofest, increasing the company IP portfolio 400%• Led development team in turning empirical and derived engineering models into multiple SaaS tools increasing engineering productivity by 200%• Led software development team through ideation, project definition, UX/UI, backend development, beta testing, and full release on multiple projects	

Facilities Engineer	<i>Kingfisher Midstream</i> – Oklahoma City, OK	August 2018 – May 2020
	<ul style="list-style-type: none">• Field facilities engineer supporting the STACK infrastructure. Responsible for the optimization of 2 gas processing plants with combined 260MMSCFD cryo capacity and 74,860 installed hp spread over 13 compressor stations• Built PSM Program and provided engineering support to bring facilities into PSM compliance. Member of internal PSM audit team.• Designed standard compressor station for 30 MMSCFD wet gas• Provided engineering support for commissioning 3-30 MMSCFD compressor stations• Provided engineering support for commissioning 200 MMSCFD MeOH removal system• Engineering support for design, construction, commissioning of 7K bbl/d two-tower condensate stabilization system	

Facilities Engineer	<i>Anadarko Petroleum Corporation</i> – Rock Springs, WY	May 2015 – August 2018
	<ul style="list-style-type: none">• Field facilities engineer for the Southwest Wyoming area. Responsibilities included the optimization of 4 gas processing plants with 500MMSCFD combined capacity including cryogenic and refrigeration gas processing technologies, fractionation (ethane recovery, propane, butane, isobutane, natural gasoline), gas condensate stabilization, amine treating, and NGL methanol removal treating. In addition, optimize the Granger complex including 7 compressor stations and miles of gathering and DOT pipelines	

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- Member of the Anadarko PSM Audit team (Participated in 3 area-wide PSM Audits, 7 facility wide PHA revalidations, over 30 project PHAs and LOPA in the DJ, Powder River, Delaware, Uinta, and Green River basins)
- Created tool to model refrigerant contamination, increasing NGL production by 5x.
- Oversaw design, construction, and commissioning of new well connect campaign into the gas gathering system. Collaborated with producers on design and project timeline. Ensured project hit critical checkpoints on time and communicated with stakeholders
- Oversaw cost estimation and design of 50MMSCFD gas delivery expansion
- Managed heat integration project saving \$300K/yr and reducing plant downtime
- Added \$250K/yr to plant revenue by optimizing tower pressures and temperatures
- Returned \$750K/yr back to the plant in unrealized compression fees contracts
- Managed gas dehydration project with an internal rate of return of 13%
- Conducted facility-wide flare system capacity study
- Conducted facility-wide Hot oil (heat medium supply) load study
- Conducted debottlenecking study on facility drain system
- Reduced compression cost by \$300K annually by optimizing cryo tower pressure
- Reduced operator man hours by 75% on SWD facility with filter optimization

Research Assistant

Jan 2014 – April 2015

The International Reservoir Simulation Research Institute – Provo, UT

- Developed numerical relationship to predict oil production rates by fitting production data to a FOPDT Capacitance Resistance Model (CRM)

Flow Assurance Engineer Intern

May 2014 – Aug 2014

BP America – Houston, TX

- Conducted flow line size study using PIPESIM for the Itaipu field (offshore Brazil)
- Recommended subsea flow line concept to extend production, \$350 million impact

Improvement Engineer Co-op *Dow Chemical, Freeport, TX*

Aug 2013 – Dec 2013

The Company – Freeport, TX

- Managed capital project to improve asset utilization and reduce downtime by 50%

Projects Engineering Intern

May 2013 – Aug 2013

BP America – Houston, TX

- Compared water injection treatment system options and recommended a LoSal® EOR system which may increase reservoir oil recovery 10-15% while reducing the risk of scaling and souring; cost savings up to \$2-5 billion over the field life
- Performed case study on produced water treatment systems on assets in the Gulf of Mexico and made recommendation to adjust systems to reduce the likelihood of environmental noncompliance

Process Engineer Co-op *Dow Chemical, Deer Park, TX*

Jan 2013 - April 2013

The Company – Deer Park, TX

- Initiated inhibitor reduction case study, estimated to save \$150K annually

System Programmer *Global Geophysical Houston, TX*

June 2012 – Aug 2012

- Created software to detect problems in supercomputers, reducing resolution time by 25%
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Legal Intern *Carrizo Oil & Gas* – Houston, TX

July 2011 – Aug 2011

- Reviewed, drafted, and edited JV contracts, and JOAs between working interest holders

Other

Activities/

Awards

- Co-founder, Hope Real Estate Investing – 2017. Managed investment fund of \$250K
 - Full-time volunteer Spanish-speaking missionary 2008-2010 (fluent in Spanish)
 - Eagle Scout
 - Founder and President, BYU Society of Petroleum Engineers
 - Operations Manager, The Brent Event Foundation 2013
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