

CLARA WHELAN

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EDUCATION

Texas A&M University College of Engineering	Bachelor of Science in Petroleum Engineering GPA: 3.31	College Station, TX May 2025
Mays Business School	Certificate: Petroleum Ventures Program	

WORK EXPERIENCE

EOG Resources – *Reservoir Engineering Intern*; Midland, TX *Summer 2024*

- Created a multi-target development plan for an underdeveloped prospect challenged with elevated H₂S and CO₂ levels
 - 230 planned wells (~\$2.0 billion potential NPV) across 5 targets in the Bone Spring Formation and 15,800 net acres
- Generated single and multi-well reservoir simulation models for existing wells to determine target-specific optimal well spacing and to evaluate the potential co-development of formations with multiple targets
 - Estimated completion parameters from early and late linear flow RTA and analyzed available log and core data
- Ran volume and all-in cashflow models, including qualifying CCS tax credits, for several treatment infrastructure options for the prospect including full third party, a standalone AGI, and AGI scenarios with various H₂S removal options
- Evaluated an acquisition opportunity of surrounding acreage with undrilled sour targets and deduced a fair purchase price

Hess Corporation – *Reservoir Engineering Intern*; Minot, ND & Houston, TX *Summer 2023*

- Quantified the value-add of well spacing, proppant amount, proppant concentration, and number of entry points in terms of IP, EUR, NPV, and ROR within three key future development areas in the Middle Bakken Formation
- Utilized multi-linear regression, completion design's effect on IP180, and random forest production forecasting models
- Ran economics on 14 different completion/spacing designs with their respective monthly production estimates and capital expenditures to establish findings pertaining to the optimization of future development on a section level
 - ~500 planned wells (~\$4.5 billion future capital) within surrounding 4 miles of sections chosen for analysis
- Deduced that wider spaced wells yield benefit to capital efficiency, maximizing section recovery with tighter spaced wells risks over capitalizing the asset, diminishing returns are experienced at very wide well spacing, optimal proppant amount and concentration vary with well spacing, and additional entry points accelerates production and increases NPV and ROR
- Toured numerous drilling, completions, production, workover, and midstream facility locations throughout the summer

Occidental Petroleum – *Wellbore Data Co-Op*; Houston, TX *January 2023 – May 2023*

- Reviewed historical drilling, completion, workover, and regulatory records to compile accurate wellbore configuration information to resolve any discrepancies within the company's internal data and that of the railroad commission
- Worked ~ 25 hours a week while maintaining a full-time course load

Peloton Computer Enterprises – *Platform Data Management Intern*; Katy, TX *Summer 2022*

- Gained proficiency in WellView and ProdView through the completion of an intensive 11-week rotational program
- Gathered experience with client interaction through consulting with operator executives and engineers

PROFESSIONAL AFFILIATIONS

Society of Petroleum Engineers (SPE) *January 2022– Present*

– *Website Committee Director*

- Handled correspondence with students, department faculty, and industry professionals to ensure that the calendar, newsletter, sponsorships, job listings, and events were kept up to date on the chapter's website

– *Sophomore Retreat Finance & Logistics Director*

- Arranged lodging, transportation, and meals for all students, faculty, and sponsors for the duration of the retreat
- Managed company sponsorships and created a budget and expense report

– *Technical Development Committee Co-Chair*

- Hosted technical seminars and software trainings for members of SPE, AADE, and IADC and led committee teams

– *Recruitment & Freshman Outreach Representative*

- Promote the petroleum department at various departmental presentations for both high schoolers and college freshman

Petroleum Ventures Program (PVP) – *Leadership Team Member* *March 2022– Present*

- Selective 25-credit program that combines petroleum engineering and finance by giving exposure to business concepts, entrepreneurship, industry leaders and case-based learning opportunities of real-world energy companies
- Plan and host professional, social, and networking events alongside department heads and other leadership team members

SKILLS

Reservoir Simulation, Economic Analysis, DCA, RTA, Spotfire, CMG, Kingdom, WellView, ProdView, Excel, Access, Python

HONORS AND AWARDS

Division Winner for the Junior Student Paper Contest *February 2024*

Dean's Honor Roll *January 2023*