

# CLARA WHELAN

College Station, TX • (281) 865-9080 • clarawhelan@tamu.edu • www.linkedin.com/in/clara-wheLAN

## EDUCATION

### Texas A&M University

College of Engineering

Bachelor of Science, Petroleum Engineering

GPA: 3.3

College Station, TX

May 2025

Mays Business School

Certificate: Petroleum Ventures Program

## WORK EXPERIENCE

### Hilcorp – Reservoir Engineering Intern; Houston, TX

Summer 2025

- Evaluated three largely untested Hinnant Sands within the Wilcox Formation for uphole recompletion potential
  - Recommended two wells for recompletions in two of the evaluated sands (~\$650M risked NPV)
  - Collaborated with geology intern to identify wells that were optimally located based on mapping
- Allocated historical production by reservoir for commingled wells within study area
- Created a petrophysical model that was calibrated with production data to determine net sand and pay thicknesses
- Identified and evaluated a potential candidate for a plug drill out procedure (~\$350M risked NPV)
  - Outside of primary study area, pending further geologic evaluation

### EOG Resources – Reservoir Engineering Intern; Midland, TX

Summer 2024

- Created a multi-target development plan for an underdeveloped prospect challenged with H<sub>2</sub>S and CO<sub>2</sub>
  - ~\$2.0B potential NPV across 5 targets in the Bone Spring Formation and ~15,000 net acres
- Generated multi-well reservoir simulation models for existing wells to determine target-specific optimal well spacing and to evaluate the potential co-development of targets subject to vertical interference
- Ran volume and all-in cashflow models, including qualifying CCS tax credits, for several treatment options for the prospect including full third party, a standalone AGI, and AGI scenarios with various H<sub>2</sub>S removal options
- Evaluated an acquisition opportunity of surrounding acreage 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 a underdeveloped area in the Middle Bakken Formation
- Created multi-linear regression models for IP30, IP180, and EUR in order to generate pre-drill forecasts
  - Predictions had better correlation with late-life production performance than existing random forest model's
- Ran economics on 14 different completion/spacing designs
  - ~180 planned wells (~\$1.8B future capital) within surrounding 5 miles of section chosen for analysis
- Deduced that wider spacing maximizes value at 1000', tighter spacings overcapitalize the asset, optimal proppant amount and concentration vary with spacing, and additional entry points increase value and are optimal at ~400
  - Proposed spacing has been implemented in most recent package and IP30/IP180 validated forecasting model

### Occidental Petroleum – Wellbore Data Co-Op; Remote

January 2023 – May 2023

- Reviewed historical records to compile accurate wellbore configuration information to resolve any discrepancies
- 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

## PROFESSIONAL AFFILIATIONS

### Society of Petroleum Engineers (SPE)

January 2022– May 2025

– Website Committee Director

- Ensured that the calendar, newsletter, sponsors, and job postings 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

### Petroleum Ventures Program (PVP) – Leadership Team Member

March 2022– May 2025

- Plan and host professional, social, and networking events alongside department heads and leadership team

## SKILLS

Harmony, Prosper, CMG, Petra, WellView, Danomics, Excel, Python, Reservoir Simulation, Economic/Risk Analysis

## HONORS AND AWARDS

3<sup>rd</sup> Place at the Senior Student Paper Contest

February 2025

1<sup>st</sup> Place at the Junior Student Paper Contest

February 2024