Sam Laudon, EIT

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Education

University of Texas at Austin
Graduation of 08/2025
PhD of Petroleum Engineering
GPA: 3.5

Texas A&M University
Graduation of 08/2021,
MS of Petroleum Engineering
GPA: 3.9

Texas Tech University
Graduation of 05/2018
BS of Chemical Engineering
GPA: 3.3

Experience

Chevron, Reservoir Engineer – (3 internships) 2022, 2023, 2024, Houston, TX / Richmond, CA

- I have completed three internships with Chevron. The first two were in the chemical EOR upstream labs. I was tasked with finding a chemical package to enhance heavy oil recovery in carbonate rocks. Between the two internships, I learned polymer rheology, surfactant aqueous stability tests and phase behavior, wettability alteration through contact angle measurements, tracer tests, and oil recovery core floods to determine chemical package effectiveness. In my third internship, I completed PVT modeling for reservoir fluids with the addition of injection gas such as carbon dioxide for miscible displacement and carbon storage.

PhD Research, CEOR, Advisor - Dr. Balhoff, Dr. Mohanty 09/2021 – Current, Austin, TX

- I complete chemical enhanced oil recovery research through the use of corefloods and micromodels using Polyethylene Oxide polymer on low permeability carbonates to determine its viability in comparison to conventional polymers. In addition to research, I act as the lab coordinator in the new GLT lab. This entails designing lab space, overseeing safety measures including waste disposal, and working with the building manager to obtain and properly implement new equipment.

MS Research, Acid Stimulation, Advisor - Dr. Hill 09/2019 – 08/2021, College Station, TX

- I lead large scale radial matrix acidizing floods through Indiana Limestone blocks to better understand and characterize wormhole development. This study was done to verify models that predict wormhole efficiency at field scale from the use of laboratory studies in carbonate reservoirs.

Schlumberger, Field Engineer (Cased-Hole Wireline) 08/2018 – 03/2019, Midland, TX

- I ran perforation jobs coinciding with the fracturing process. I assembled the tool string, ran the winch, correlated well logs, pumped down using frac pumps, and perforated zipper wells. I also underwent hands-on and classroom-based engineering training at a Schlumberger facility where I placed third in my class out of thirty engineers.

Morrow Energy, Summer Facilities Internship 05/2017 – 08/2017, Midland, TX

- I learned various simulation programs to size pipes, control valves, and heat exchangers. I used this knowledge along with a plant visit to aid in a group project to size a facility used to treat landfill gas from start to finish.

Publications

- Laudon, S., Balhoff, M., and Mohanty, K. "The Effect of Polyethylene Oxide on Residual Oil Saturation of Low Permeability Carbonates." *SPE Improved Oil Recovery Conference.* SPE, 2024.
- Alexis, D., Pinnawala, G. W., Laudon, S., Dwarakanath, V., Solano, M., Smith, E., & Mirkovic, Z. "Field Injectivity Improvement in Heavy Oil Carbonate Reservoirs: Effective Surfactant Formulations for Lower Permeability Carbonates." *SPE Improved Oil Recovery Conference.* SPE, 2024.
- Laudon, Samuel. *A Radial Scale up of Matrix Acidizing in Carbonate Reservoirs*. Diss. 2021.

Proficiencies, Leadership, and Awards

- Passed Principals of Engineering (PE) Exam in Petroleum Engineering
- Ansys Fluent, ArcGIS, Aspen HYSYS, CMG, Eclipse, Matlab, Petrel, Python, and SolidWorks
- UT Teaching Assistant Position (2022-2023)
- TAMU SPE Industry Experiences Committee (Co-Founder and Director 2020-2021)
- TAMU SPE Career Enhancement Committee (Co-Chair 2020-2021)
- 2nd Place in TAMU Petrobowl Competition 2020