

# Landon P. Lockhart

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Seeking a permanent position as a geoscientist within the operations side of the oil and gas industry upon completion of my PhD in summer 2024.

## EDUCATION

- PhD (Geoscience), The University of Texas at Austin *August 2024 (expected)*  
- Dissertation, *Petrophysical & geomechanical analysis of Permian Basin*  
- Advised by Dr. Peter Flemings and Dr. Maria Nikolinakou
- MS (Geoscience) The University of Texas at Austin *May 2018*  
- Thesis, *Pore pressure prediction: from vertical stress to mean stress to full stress tensor, GoM*  
- Advised by Dr. Peter Flemings and Dr. Maria Nikolinakou
- BS (Geology), Oklahoma State University *May 2015*  
- Minor in Mathematics  
- Graduated with honors

## SKILLS

### Well Log Interpretation

- Experienced in evaluating rock types and saturating fluids, and quantifying petrophysical properties (e.g., porosity and hydrocarbon saturation)

### Geological Experimentation

- Proficient in measuring and interpreting porosity (helium and NMR), bulk compressibility, Skempton's pore pressure coefficient, and consolidation rate

### Software

- Extensive experience using Petra IHS, Geolog, and MATLAB
- Some experience using Kingdom IHS, Python, and StarSteer

### Leadership

- American Rock Mechanics Association: Co-founder (2019), president (2019-2021), treasurer (2022), and co-chair for student activities (2021)
- Society of Petrophysicists & Well Log Analysts: Liaison officer (2022)
- Eagle Scout

## INDUSTRY EXPERIENCE

- Hilcorp (Geoscience Intern) *Summer 2023*  
- Performed field study of Upper Wilcox; proposed 2 wells for recompletions and 1 drill well
- Diamondback Energy (Geoscience Intern) *Summer 2022*  
- Geosteered and analyzed Wolfcamp wells in Midland Basin, resulting in optimized drilling strategies
- Chevron (Geoscience Intern) *Summer 2021*  
- Developed geomechanical of Mad Dog Field, GoM; proposed strategic location for an injection well
- Peregrine Petroleum (Geoscience Intern) *May 2018 – Jan. 2019*  
- Performed field study of assets located in Louisiana and Oklahoma; identified multiple locations for new wells
- Denbury Resources (Geoscience Intern) *Summer 2015*  
- Mapped Delhi Field in Louisiana and discovered candidate sand body for CO2 flood, estimating 8 MMbbl OOIP

## PUBLICATION

Lockhart, Landon P., et al. "Velocity-based pore pressure prediction in a basin with late-stage erosion: Delaware Basin, US." *Marine and Petroleum Geosciences* 150 (2023): 106159

## CONCERENCE PRESENTATIONS

### UT-GeoFluids Consortium (Austin, TX)

- Talk, *Exploring the impact of uplift on pore pressure prediction in the Wolfcamp through Skempton's B value* Spring 2024
- Talk, *Velocity-based pore pressure prediction with late-stage erosion: Delaware Basin, U.S.* Spring 2023
- Talk, *Laboratory measurements of Skempton's B coefficient on Wolfcamp A core, Delaware Basin, U.S.* Spring 2023
- Talk, *Pore pressure prediction in the Delaware Basin* Spring 2022
- Talk, *Pore pressure response to changes in effective stress: current work and future plans* Spring 2022
- Talk, *New workflow to predict pressure in unloaded basins with application in Delaware Basin* Spring 2021
- Talk, *Pressure prediction in unloaded (unconventional) basins / case study: Delaware Basin* Spring 2020
- Talk, *Pore pressure & horizontal stress changes during uniaxial loading and unloading* Spring 2020
- Workshop, *Basic principles of unloading: stress ratio and fracture gradient* Spring 2020

### Geopressure Annual Conference (Durham, UK)

- Talk, *Pressure prediction in unloaded (unconventional) basins. Case study: Delaware Basin* Spring 2021

### Master's Defense at The University of Texas at Austin

- Thesis, *Pressure prediction in a non-uniaxial setting based on velocities and geomechanical modeling Mad Dog Field, Gulf of Mexico* Spring 2018

### Undergraduate Honors Thesis Defense at Oklahoma State University

- Thesis, *Geophysical mapping of the Makgadikgadi Basin, northern Botswana* Spring 2015

## AWARDS

### SPWLA Student Paper Contest (1<sup>st</sup> place)

Spring 2023

### East Texas Geological Society Scholarship

Fall 2022 – Spring 2024

### Bianchi Boone Endowed Presidential Scholarship

Fall 2019 – Spring 2020

### Halliburton Landmark Earth Model Award (3<sup>rd</sup> place)

Spring 2019