

Oil and Gas Geologist

Selene Ruiz

Professional summary

Exploration geologist specializing in oil and gas field development with 9+ years of basin analysis, seismic interpretation, and core sample evaluation. Extensive experience working with multidisciplinary teams to maximize field discovery and recovery.

Experience

Oil and Gas Geologist

2020 - 2025

Anadarko Petroleum (now part of Occidental) / Denver, CO

- Conducted 2D and 3D seismic interpretation for exploration wells in the DJ Basin, identifying structural traps and stratigraphic pinch-outs for potential drilling.
- Created static reservoir models in Petrel, incorporating log data, core reports, and seismic attributes to evaluate recoverable volumes and reservoir architecture.
- Worked alongside drilling engineers during geosteering operations, making real-time stratigraphic picks to maintain wellbore placement within the target formation.
- Led petrophysical analysis workshops for junior geologists, integrating core results with log data to improve reservoir quality predictions.

Junior Geologist

2016 - 2020

SM Energy / Billings, MT

- Conducted field studies and geologic mapping for new lease evaluation projects in the Williston Basin, focusing on lithofacies and depositional environments.
- Supervised mudlogging operations and sample collection during drilling of vertical pilot holes to ensure accurate lithological descriptions and gas shows.
- Organized subsurface databases and generated cross-sections, contour maps, and structure grids to support lease sales and internal exploration meetings.
- Aided environmental permitting and ensured geologic compliance in coordination with state agencies for new well locations.

Additional Information

- Contributor to AAPG Explorer Magazine (2023 feature on DJ Basin stratigraphy)
- Field mapping expedition leader in southern Utah (2022-2024)

(303) 555-4732

selene.ruiz.geo@email.com

Denver, CO

Education

M.S. Geology

University of Wyoming – Laramie, WY |

Graduated: 2016

B.S. Earth Science

Colorado State University – Fort Collins, CO |


Graduated: 2014

Certifications

- GIT (Geologist-in-Training) – CO Board of Licensure, 2023
- ArcGIS Desktop Specialist – Esri, 2022


Skills

Reservoir modeling 

Geosteering 

Petrel, Kingdom, ArcGIS 

Core and log interpretation 

Geological mapping 

Structural analysis 

Subsurface data integration 

Stratigraphy 

Field sampling coordination 