Sofia Castellanos

Reservoir Engineering Intern

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Summary

Petroleum engineering senior at Louisiana State University graduating in 05/2027 with a 3.6 GPA and 2 years of reservoir engineering internship and core lab work. Runs decline curve analysis, material balance and well test analysis in Microsoft Excel and Python, and has built a first ECLIPSE sector model for a class project.

Experience

Reservoir Engineering Intern

Bayou Crest Energy — Baton Rouge, LA — 05/2026 - Present

Summer internship continued part-time during senior year with a Haynesville gas producer.

- Forecast **85** Haynesville gas wells with decline curve analysis and compared results to the reserves team's cases.
- Built a material balance model in Microsoft Excel for a depleted gas reservoir, estimating 42 Bcf of gas in place.
- Cleaned 10 years of pressure and production data in Python for a 30-well surveillance dashboard.
- Presented 3 findings to the reservoir manager and asset team, including 2 wells recommended for wellhead compression.

Core Lab Student Assistant

Louisiana State University — Baton Rouge, LA — 08/2024 - 04/2026

Part-time role in the petroleum engineering department's rock properties lab.

- Measured porosity and permeability on **120** core plugs for 2 graduate research projects.
- Prepared Petrel practice grids for a 40-student reservoir characterization course.
- Logged lab results in Excel with checks that cut data entry errors to under 1%.
- Trained 6 new student workers on core lab safety, sample labeling and chain-of-custody tracking.

Education

Bachelor of Science

Louisiana State University

Petroleum Engineering

Baton Rouge, LA

05/2027

GPA: 3.6

Skills

Reservoir Engineering	—	Decline Curve Analysis	—	Material Balance	—	Well Test Analysis
Microsoft Excel	—	Python	—	ECLIPSE	—	Petrel
Core Analysis	—	Communication				

Certificates

OSHA 10-Hour General Industry

OSHA Training Institute Education Center

06/2025

SafeLand USA Basic Orientation

SafeLand USA

05/2026