

# Dante Vela

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## Professional Summary

Results-driven Petroleum Engineer with hands-on experience in drilling operations, production optimization, and project management. Proven track record of spearheading initiatives to enhance operational efficiency, minimize cost, and drive revenue growth within the oil and gas industry. Skilled in utilizing advanced software tools and machine learning techniques to analyze data, predict outcomes, and make optimal decisions. Adept at fostering relationships with clients, colleagues and stakeholders to achieve project objectives. Committed to continuous learning and professional development, with a strong foundation in drilling systems, reservoir simulation, and production systems.

## Education

**Texas A&M University, College Station, Texas**

-Bachelor of Science in Petroleum Engineering

Expected Graduation Date: May 2024

## Work Experience

### **Engineering Support Intern**

*Cactus Drilling, Oklahoma City, Oklahoma*

May 2023 - August 2023

- Spearheaded and maintained a 100% accident-free work environment across multiple drilling projects
- Accomplished 10% increase in overall production and revenue generation by drilling nine wells, reaching depths of 16,000 to 19,000 feet
- Achieved a 20% reduction in project completion time and improved operational efficiency through strategic coordination and effective resource utilization

### **Operations and Customer Service Intern**

*Plateros Produce & Spices, Mcallen, Texas*

June 2016 - August 2020(Summer)

- Achieved a 10% increase in order fulfillment efficiency by efficiently packaging/shipping essential products
- Demonstrated proficiency in data entry tasks and streamlined records managements, increasing organization
- Fostered positive customer experiences and satisfaction by providing prompt and courteous customer service

## Projects and Certifications

- **International Well Control Forum Lv1 Certification**  
-Demonstrating proficiency in fundamental well control principles and ensuring readiness to effectively manage well control incidents within the oil and gas industry.
- **Application of Machine Learning Techniques for Production Optimization**  
-Applied machine learning techniques that include Random Forest Regressor, Elastic Net, Gradient Boosting, Artificial Neural Net, and Multiple Linear Regression to predict oil and gas volume produced.
- **Comprehensive Evaluation of Drilling Prospects in the Brugge Field**  
- Employed 3D structural/stratigraphic modeling for location analysis, making informed decisions on economic and engineering sensitivities, for a thorough assessment of feasibility and potential profitability.
- **Full Petrophysical Evaluation of the Cornack Oil Field**  
- Utilized well-log analyses and cross-validation techniques with core data. Mapped out petrophysical and geological properties, showcasing analytical skills and enhancing understanding of the field's dynamics.
- **Design and Evaluation of Development Plan for Squared Oil Reservoir**  
- Utilized reservoir simulation software to optimize development strategies for an oil reservoir, evaluating productivity and economic benefits for 8 fractured vertical wells and 2 multi-fractured horizontal wells.
- **ETC SafeLand USA Certification, Energy Training Council (ETC)**  
-Completed comprehensive safety orientation program designed for the US Onshore Exploration & Production (E&P) Industry, emphasizing hazard recognition and prevention in oil and gas operations.
- **Comprehensive Analysis of Retrifer Oil Field Acquisition and Development Potential**  
-Developed proposal for potential acquisition of the Retrifer Oil Field, including a recommendation of the economic feasibility of drilling an additional well using decline curve analysis and recompletion opportunities.

## Additional Information

**Relevant Coursework:** Well Testing, Reservoir Simulation/Modeling, Drilling/Production Systems, Drilling Hydraulics, Formation Evaluation, Project Management, Subsea Engineering

**Professional Affiliations:** Aggie Network Student Ambassadors, AADE, IADC, SPE

**Skills:** Python, Spotfire, Interactive Petrophysics (IP), CoViz 4D, AutoDesk Inventor, Bilingual (English & Spanish)