**Petroleum Engineer**

Petroleum Engineering Technician with a strong background in reservoir surveillance, drilling operations, and production optimization. Skilled in data analysis, regulatory compliance, and operational improvements to enhance energy production and sustainability. Proven track record in managing data integrity, creating technical documentation, and implementing solutions for efficient oil and gas extraction. Seeking long term position to advance engineering expertise through innovative approaches in energy production and collaborative problem-solving. Open to rotational, in person and hybrid roles, with experience in both field and virtual environments.

**Education**

**Bachelor of Science (Engineering Sciences, Emphasis in Petroleum Engineering), Graduated 2021**

California State University Bakersfield (CSUB), ABET Accredited Bakersfield, CA

**Achievements**

* Managed five specialized teams (Development, Drilling, IRT, Historical, and Repairs & Maintenance), overseeing data quality clean-up tasks, boosting operational efficiency, and ensuring strict regulatory compliance through strategic delegation and process streamlining.
* Prepared and submitted regulatory reports on well data, production, and compliance, including CCCOGP (Conservation Committee of California Oil and Gas Producers) for San Ardo and Coalinga oil fields. Provided critical updates to DOGGR (Division of Oil, Gas, and Geothermal Resources) officials on oil reserves, production trends, abandonments, and future field plans for Aera and Chevron in 2024
* Demonstrated proactive problem-solving by identifying and rectifying data quality issues, independently reducing data inaccuracies by 40%, directly improving reporting reliability and compliance adherence.
* Completed advanced coursework in Production, Reservoir, and Drilling Engineering with an emphasis on well control, drilling techniques, and pressure management. Gained in-depth knowledge of wellbore hydraulics and pressure drilling through hands-on academic projects and simulations.
* Featured in the Kern County Gazette for developing an innovative reactor that utilizes electricity to treat oilfield-produced water, making it eligible for agricultural reuse. (Karunwi, B. A., 2020, Oilfield Wastewater Slowly Gains Value in Agriculture)

 **Experience**

**Aera Energy LLC** Bakersfield, CA (**Hybrid**) **March 2023 - August 2024**

**Engineering Technician, Reservoir Surveillance - Data & Reporting**

Developed solutions for clients though technical support and data analysis to enhance reservoir surveillance

* Led remote monthly meetings to identify recurring errors for five sub-surface maintenance teams, leveraging trend analysis to implement process improvements ensuring accurate sub-surface surveillance data
* Served as the primary point of contact for all OpenWells-related issues, managing troubleshooting, technical support, and ensuring data integrity across multiple teams. Analyzed production and drilling data to create technical reports, identifying inconsistencies and notifying field teams to ensure accurate and timely reporting.
* Collaborated closely with field personnel and regulatory agencies to verify production data, promptly addressing daily discrepancies to maintain strict compliance with industry standards. Uploaded all directional surveys
* Leveraged ChatGPT, SQL, Tableau, and OpenWells to streamline field data analysis and accelerate data processing, delivering comprehensive reports that resolved technical issues, improved data integrity, optimized production workflows, and enhanced client satisfaction in dynamic environments

**Driltek Operating** Bakersfield, CA (**Hybrid**) **April 2022 - March 2023**

**Engineering Technician (Contracted to Aera Energy LLC since 2022)**

Justified complex drilling, workover, and abandonment procedures by updating wellbore diagrams.

* Utilized OpenWells and WellView software to create wellbore schematics and ensure data integrity in compliance with industry regulations.
* Organized and reviewed well data, supporting development plans and ensuring regulatory compliance by auditing production and injection records.
* Submitted NOI (Notice of Intent), wrote well histories, and cross-referenced wellbore diagrams with well history data to ensure compliance within the industry and Cal GEM’s regulations.

**AppleOne** Bakersfield, CA (**Hybrid**) **August 2021 - April 2022**

**Well Analyst**

Reviewed drilling, workover, and abandonment data for production and injection wells to create or audit wellbore diagrams for Chevron’s AOR projects.

* Reviewed and audited well data to ensure accuracy and save time for chemical applications in production and injection wells.
* Analyzed complex well work data to identify and correct discrepancies through consistent communication with well site representatives and engineers.
* Audited complex data from history of the well to identify and correct anomalies.

**CSUB Materials Lab** Bakersfield, CA **May 2020 - May 2021**

**Student Research Assistant (in University)**

Performed a series of lab experiments using self -created electrical reactors.

* Conducted electro-oxidation to remove contaminants from produced water.
* Evaluated various ways of cleansing produced water for potential agricultural reuse.
* Tested the absorbance of the water before and after treatment.

**Software | Data Analysis Skills**

Open Wells (WBD Software) | Well Shadow (WBD Software) | Well View (WBD Software) | Fore site (WBD Software) |Compliance Reporting |Chat GPT | CalGEM Well Finder | Microsoft Office | SolidWorks | AutoCAD | Tableau | SQL | MATLAB | Power BI | Python | Cement Calculation | Data Analysis | Data Visualization | Wellbore Diagram (WBD)

**Relevant Curriculum**

Reservoir Engineering | Petroleum Production Engineering | Drilling Engineering and Completion Technology |Project Management |Petroleum Geology | Engineering Modeling and Analysis | Analytics Mechanics, Statics | Analytics Mechanics, Dynamics | Number Methods and Application in Engineering | Machine Design | Electric Circuits |Thermodynamics |Mechanics of Materials |Material Science |Fluid Mechanics | Heat Transfer

**Leadership**

**President, CSUB Society of Petroleum Engineers (SPE)** - Promoted an overall interest in SPE and its members across campus. Fostered an inclusive and ethical work culture, encouraging professional development and networking opportunities between students and professional members within the industry. Oversaw a $54K budget to make decisions that positively impact students.

**Research Project:** Water Treatment Reactor Development for Oilfield Wastewater

Featured in Kern County Gazette for designing a reactor that treats oilfield-produced water, enabling agricultural reuse and highlighting sustainability efforts in energy production.

**Recipient, 2020 San Joaquin Valley American Petroleum Institute Scholarship** - Received scholarship in recognition of outstanding and invaluable service to the community.