Cynthia Veronica Oeiyono

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OBJECTIVE
- Seeking an internship either in R&D, exploration or production team that works in CCUS or traditional petroleum engineering topics
- Willing to relocate.

EDUCATION

PhD, Petroleum Engineering, (expected) August 2026
The University of Texas at Austin, Texas
Current GPA: 3.81/4.00

Master of Technology, Project Management, August 2018
Institute Teknologi Sepuluh Nopember, Indonesia
Overall GPA: 3.78/4.00

Bachelor of Science, Chemical Engineering, January 2008
Gadjah Mada University, Indonesia
Overall GPA: 3.81/4.00

INDUSTRY EXPERIENCE

Reservoir Engineer, Pertamina Hulu Kalimantan Timur, 10/2018 – 06/2022
- Reservoir Engineer for development drilling projects using reservoir simulation (Intersect), Material Balance (MBAL) and statistic approach (Monte Carlo), resulted in 6 drilling well candidates in 3 fields
- Developed gross split project economic evaluation in Merak PEEP, resulted in 40% time-saving in performing economic evaluation for multiple development strategies
- Developed fluid model (EOS model) of Pantai field wet gas, resulted in a corrected reservoir model for the field

Property Transfer Coordinator, Chevron Indonesia Company, 06/2016 – 10/2018
- Coordinated Risk Assessment for Past Abandoned Wells, produced a Risk Assessment Report as part of HSE compliance
- Coordinated Close Out Report of Well Abandonment AFEs and secured government's approvals for cost, resulted in 100% cost reimbursed ($40 MM)

Business Development Team, Chevron Indonesia Company, 06/2014 – 06/2016
- Reserves Coordinator for Kalimantan Operations (16 producing fields and 5 undeveloped fields), resulted in a smooth reserve audit without major action items
- Performed monthly analysis update of business parameters (production, opex, capex, etc)
- Performed economic evaluations for subsurface-related projects under cost-recovery system as part of CAPEX and OPEX allocation

Reservoir Engineer, Chevron Indonesia Company, 06/2012 – 06/2014
- Reservoir Engineer for Attaka and Melahin fields: estimated reserves for drilling and workover projects, estimated reserves for yearly reserves audit. Result: Maintain production decline at 30%/year for oil and 60%/year for gas

Planning Specialist, Chevron Indonesia Company, 06/2010 – 06/2012
- Liaised with the government for subsurface-related queries, resulted in good working collaboration with the government

- Coordinated internal company annual Business Plan, resulted in a set target for the company's Business Plan (production, CAPEX and OPEX) accepted without major recycle/action items

Optimization Engineer, Chevron Indonesia Company, 05/2008 – 06/2010
- Monitored well performance, identified workover/well-service opportunities, developed proposal, monitored workover execution and reported/presented results to management
- Result: 5-10 workovers/well-service per year, resulted in increased production of ~500 BOPD/year and safe execution

ACADEMIC EXPERIENCE

Graduate Research Assistant, The University of Texas at Austin, 08/2022 – Present
    Research on CO_2-mineralization topic, both surface and subsurface processes

PUBLICATION

Oeiyono, C. V., Ratnakar, R., & Mohanty, K. K. (2024). Experimental investigation of amine regeneration for carbon capture through CO_2 mineralization. *SPE Journal*. https://doi.org/10.2118/223085-PA

Oeiyono, C. V., Ratnakar, R., & Mohanty, K. K. (in press). Energy-efficient Amine Regeneration for Absorption-based Carbon Capture: Kinetic Studies for CO2 Mineralization. *Proceedings of the SPE Annual Technical Conference and Exhibition*, USA.

Gupta, S. S., Ratnakar, R., Dindoruk, B., **Oeiyono, C. V.** & Mohanty, K. K. (in press). Phase Behavior Experiments and Modeling Of CO_2-water-amine Mixture Based On Huron-vidal Mixing Rule For CCS Applications. *Proceedings of the SPE Annual Technical Conference and Exhibition*, USA.

SOFTWARE SKILLS
- IPM (PROSPER, GAP, PVTP) - *Advanced*
- Merak PEEP (Petroleum Economic Analysis) - *Advanced*
- OFM (Oil Field Manager) - *Advanced*
- PIPESIM - *Advanced*
- Petrel Intersect (Reservoir Simulation) - *Intermediate*
- Phreeqc (Geochemical modelling) - *Intermediate*
- Python (Programming language) - *Intermediate*
- PFLOTRAN (flow and transport simulation) - *Basic*

LABORATORY SKILLS
- X-ray Diffraction (XRD) - *Intermediate*
- Fourier Transform-Infrared (FT-IR) spectroscopy - *Intermediate*
- Nuclear Magnetic Resonance (NMR) – *Intermediate*
- Thermogravimetric Analysis (TGA) - *Intermediate*
- Scanning Electron Microscope (SEM) - *Intermediate*
- Energy Dispersive Spectroscopy (EDS) - *Intermediate*

AWARDS
1. S.P. Yates Memorial Endowment for Graduate Fellowships in Petroleum Engineering (2024)
2. UT Chevron Energy Graduate Fellows Award (2024)
3. Jack L. Thurber Memorial Endowed Presidential Scholarship in Engineering (2023)
4. John and Kelli Weinzierl Endowed Presidential Fellowship in Petroleum and Geosystems Engineering (2022)

ORGANIZATIONAL EXPERIENCE

- Secretary, Women in Petroleum Engineering (WPGE), *2024-2025*
- Member, Society of Petroleum Engineers (SPE), *2012-current*
- Volunteer, Petroleum Graduate Student Assembly, *2024-current*