

ABOUT ME

A Geoscientist/ Petrophysicist with demonstrated ten years of experience in the industry. Competent in well planning/ acquisition, cased hole logging, input for static modelling, for integrated petrophysical evaluation in field exploration to production development. Active participation and publications in technical society of petrophysics e.g., SPWLA, SPE. Picked up programming skill in Python to build personal project in Petrophysics.

EXPERIENCE

Halliburton, Norway

Sr. Geoscientist/ Sr. Petrophysicist (2023 – present)

- Delivered rush interpretation for plug-abandonment program by cement and casing evaluation. Critical for a quick decision making to where to set the barrier plug in a well.
- Delivered cased hole saturation analysis by pulsed neutron technology, bypassed HC, fluid contact monitoring, or water-flow movement.
- Delivered Low resistivity Low Pay reservoir interpretation using resistivity tensor model approach. Considered as one of the expert in the region for this subject.
- Delivered integrated petrophysical analysis, combining logs-core-test data . Key aspect to bridge between static model and productions.

Halliburton, Malaysia

Sr. Geoscientist/ Sr. Petrophysicist (2017 – 2023)

- Delivered field development studies on thin-bed/ laminated reservoir analysis/ LRLC in Indonesian (Pertamina), Malaysian basin (Petronas), Australia (Cooper-Eromanga), Bangladesh (Bibiyana), Italia-Hungary (Anamaria).
- Delivered full field review on Carbonate complex (Berai formation, Indonesia), included but not limited to; rock typing, permeability transform, and pore-size distribution and integrated core-NMR data for saturation height model in tight carbonate reservoir for future development of the fields.
- Delivered petrophysical analysis for exploration and development wells, including but not limited to: multiminerall analysis (using core and spectral GR and elemental log data/GEM), NMR T1T2 fluid ID and permeability, and dipole sonic analysis (compressional and shear).
- Delivered rock mechanic analysis (geomechanics and fracture height analysis) for customers in Australia (Bowen basin), Bangladesh (Bibiyana field), and Indonesia (Sanga-Sanga field).
- Delivered cased hole petrophysical evaluation (pulsed neutron, cement bond-casing inspection, leak detection) for customers in Australasia and Europe region e.g., Petronas, Pertamina, Chevron, PTTEP, ENI, etc.
- Provided integrated Open hole, Cased hole, and core data for reservoir characterization in well, such as sweeping interval, remaining saturation, for workover and strategies to maximize productions.
- Planned and supervised the log data quality (QA/QC) during and after logging acquisition for well surveillance and well monitoring.
- Delivered machine learning (Self Organized Mapping/ SOM) for carbonate class classification based on log and core description.
- Supervised junior staff in cased hole and open hole advanced formation evaluation.

Halliburton, Indonesia

Geoscientist/Petrophysicist (2014 –2017)

- Delivered cased hole pulsed neutron analysis/ saturation surveillance on steam-flood heavy oil in Duri field, Sumatra, Chevron Indonesia.
- Proposed more than 1,000 BOPD of additional pay from pulsed neutron analysis for customers in Indonesia (Chevron, Pertamina, Saka) and Africa (Cobo).

Geominergy, Indonesia

Petrophysicist (2013 –2014)

- Built integrated petrophysical analysis i.e. rock-typing, permeability model, saturation height model for carbonate reservoir (Baturaja Fm.) from 114 wells, in Ramba field, Sumatra, Indonesia.
- Delivered estimated model for vertical sweeping efficiency on the EOR pilot well candidates in Ramba field.

LKFT UGM | Indonesia

Geologist/Geochemist (2012 –2013)

- Interpreted seismic lines and built top formation maps for reserves calculation in Indonesia Basins.
- Evaluated geochemistry data and built time-maturity model using Petromod 1D.

SELECTED PUBLICATIONS

- Critical Porosity in Understanding Acoustic Porosity Anomalies. A Case Study in Complex Carbonate Reservoir in Indonesia. [Proceedings, Indonesian Petroleum Association. Forty-Sixth Annual Convention & Exhibition Sep 2022](#)
- Thru-Tubing Integrity Assurance in CO₂-Injection Well Using Electromagnetic Corrosion Logging Tool: A Case Study in Far East Test Field, Japan. The 26th JFES, SPWLA Symposium 2021 (**won the best presentation award**).
- Integrated Evaluation of Laminated Sand-Shale Gas-Bearing Reservoir Using Tensor Model. A Case Study Combining Data from Triaxial Resistivity, Image, Sonic, And Reservoir Testing in B-Field, Malaysia. [SPWLA 62nd Annual Logging Symposium 2021](#).
- Full Well Corrosion Insight – Case Studies in the Added Value of Electromagnetic Thickness Measurements During Well Interventions. [SPE/ICoTA Coiled Tubing & Well Intervention Conference & Exhibition 2021](#).
- Multi-Detector Pulsed Neutron Tool Application in Low Porosity Reservoir – A Case Study in Mutiara Field, Indonesia. [SPWLA 61st Annual Logging Symposium 2020](#) (**featured in the SPWLA Journal of Petrophysics 2020 Dec**)
- Practical Application of Tensor Model in Laminated Sand Shale Analysis. [Abu Dhabi International Petroleum Exhibition & Conference 2019](#).
- Behind Casing Gas Identification Using Ultrasonic Wireline Logs: An Overview of Multiwall Field Plug and Abandonment Study, Offshore Malaysia. [SPE Symposium: Decommissioning and Abandonment 2019](#).
- Where's the Water Coming from? — A Combined Formation Saturation, Production Logging, Water Flow, and Leak Detection Diagnosis Deployed on Coiled Tubing. [SPE/IATMI Asia Pacific Oil & Gas Conference and Exhibition 2019](#).
- Success Novel of Integrating Pulsed Neutron and Comprehensive Production Data Analysis to Optimize Well Production. [SPWLA Asia Pacific Symposium 2018, Indonesia](#).

PERSONAL PROJECT, SOFTWARE SKILLS, & CREDENTIALS

- Personal Project: built a responsive web application at [plotpetrophysics](#) for basic petrophysical evaluation i.e., shale volume, porosity, and water saturation.
- Micro-credentials: Petrophysics (Petroskills), Probabilistic Multimineral (Seispetro), Wireline Logging School (Halliburton), CCUS (Edx), Energy Transition (IFP School)

EDUCATION

- Bachelor's degree of Geological Engineering (2007- 2012)
- Research: Foreland basin and Its Potential in Hydrocarbon Exploration
- Thesis: Granulometry Analysis of Opak River Post-Merapi Eruption 2010