

MUHAMMAD ADEEM ABBAS

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CAREER OBJECTIVES:

A competent and dedicated **Petroleum Engineer** with good technical skills in research and development. I have strong ambitions to pursue my doctorate studies to accomplish career goals at a renowned institute.

EDUCATION:

Universiti Teknologi PETRONAS	Perak, Malaysia
MSc Petroleum Engineering by Research Work	Jul 2019 – Feb 2022
Thesis: Rheologically Modified Oxazoline – Hydroxy Terminated Polymer Drilling Fluid with MWCNT for Shale Swelling Inhibition	

University of Engineering and Technology	Lahore, Pakistan
B.Sc. Petroleum and Gas Engineering	(CGPA: 3.619/4.0) Sep 2014 – Aug 2018

City College of Science and Commerce	Multan, Pakistan
Intermediate (Pre – Engineering)	(Percentage: 85.45%) Aug 2011 – Sep 2014

Govt. Iqbal Secondary School	Multan, Pakistan
Secondary School Certificate (Science)	(Percentage: 80.19%) Mar 2009 – Aug 2011

PROFESSIONAL EXPERIENCE:

- **Lecturer at “Department of Petroleum Engineering, NED University of Engineering and Technology, Karachi, Pakistan”** (Mar 2023 - Present)
Major Subjects: Well Testing, Natural Gas Engineering, Drilling Engineering, Drilling Fluids, and Fluid Mechanics.
- **Lecturer at “Department of Petroleum and Gas Engineering, NFC - Institute of Engineering and Technology, Multan”** (May 2022 – Apr 2023)
Major Subjects: Drilling Engineering, Geology, Well Testing, Well Logging, and Petrophysics.
- Internship at **“MOL Pakistan Oil and Gas Co. BV, Islamabad”** (Jul 2018 – Aug 2018)
 - Well completion, Production logging tools, Bottom Hole Pressure Surveys, Slickline, Wireline, Coil Tubing, Cementing, Well tests.

- Internship at “**Sui Gas Field; Pakistan Petroleum Limited**” (Jun 2017 – Jul 2017)
 - HSE Training, Well completion, Workover, Well Control Systems, Well Safety Systems, Gas Dehydration, Well Water Testing, Gas Compressors, Gas Purification, NDT Testing.

CERTIFICATIONS:

- **Malaysia Board of Technologists - mBOT**
 - Graduate Technologist – **GT22050685**
- **Pakistan Engineering Council - PEC**
 - Registered Petroleum Engineer – **PETGAS/03014**

RESEARCH PUBLICATIONS:

- M. A. Abbas, A. Zamir, K. A. Elraies, S. M. Mahmood, and M. H. Rasool, “**A Critical Parametric Review of Polymers as Shale Inhibitors in Water-Based Drilling Fluids**” *Journal of Petroleum Science and Engineering*, 2021, p. 108745. [ISI Q1]
- M. A. Abbas, A. Zamir, K. A. Elraies, S. M. Mahmood, A. Navid, R. Saidur, Maqsood Ahmad and Rasool “**Characterization of Nano Based Drilling Fluid for Shale Swelling Inhibition**” *Petroleum Science and Technology*, 2022 [ISI Q2]
- M. H. Rasool, M. Ahmad, M. Ayoub, A. Zamir, M. A. Abbas, “**A Review of the Usage of Deep Eutectic Solvents as Shale Inhibitors in Drilling Mud**” *Journal of Molecular Liquids*, 2022, vol. 361, p. 119673. [ISI Q1]
- M. H. Rasool, A. Zamir, K. A. Elraies, M. Ahmad, M. Ayoub, and M. A. Abbas, “**Potassium carbonate based deep eutectic solvent (DES) as a potential drilling fluid additive in deep water drilling applications**” *Petroleum Science and Technology*, vol. 39, no. 15-16, 2021, pp. 612-631. [ISI Q2]
- M. H. Rasool, A. Zamir, K. A. Elraies, M. Ahmad, M. Ayoub, and M. A. Abbas, “**A Deep Eutectic Solvent based novel drilling mud with modified rheology for hydrates inhibition in deep water drilling**” *Journal of Petroleum Science and Engineering*, 2022, p. 110151. [ISI Q1]
- M. H. Rasool *et al.*, “**Rheological characterization of potassium carbonate deep eutectic solvent (DES) based drilling mud**” *Journal of Petroleum Exploration and Production Technology*, 2021, pp. 1-11. [ISI Q2]
- A. Zamir *et al.*, “**Influence of alkyl chain length in ionic liquid based drilling mud for rheology modification: a review**” *Journal of Petroleum Exploration and Production Technology*, 2021, pp. 1-8. [ISI Q2]

PROJECTS:

- Worked on “**Field Development Optimization in a Heterogeneous Thin Layered Oil Reservoir through Efficient Water Flooding: A Case Study**” in industrial collaboration with United Energy Pakistan Limited (UEPL), Pakistan.

- Worked on **“Performance Analysis of Depleted Heterogeneous Reservoir using Production Data”** in industrial collaboration with United Energy Pakistan Limited (UEPL), Pakistan.
- Worked on **“Efficient Deep Learning Framework for Analysis of Pore Pressure Profiling and Abnormal Pressure Zone Detection”** under UTP Data Science Hackathon conducted by EAGE – UTP and Halliburton Malaysia.
- Worked on **“Halliburton Simulation Competition 2021 including COMPASS and NEXUS Software 2 – Day Workshop”** conducted by SPE UTP SC and Halliburton.
- Worked on **“Shale Inhibition using Nanoparticles and Polymer in WBDF for Drilling Operation in High Temperature Wells”** under YAYASAN UTP (YUTP) research grant.
- Worked on **“Performance Prediction of Rate Controlled Shale Gas Reservoir by using Pressure Normalized Decline Curve Analysis”** for Final Year Project.

INTERESTS:

- Research and Development, Cricket & Badminton, and Software.