

Adan Malik

Pakistan Petroleum Limited
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Education

B.E. Petroleum Engineering, NED University of Engineering & Technology 2016-2020
CGPA: 3.88/4.00 (Rank: 6th)

- Dissertation: Stress Analysis of Completion String for Deep and Ultra High-Pressure Gas Well (Supported by Pakistan Petroleum Limited (PPL))
- Student Activities: Sponsorship lead, Student Energy NEDUET Chapter, 2019-2020

Intermediate, Pre-Engineering, St. Lawrence Govt. Degree Girl's College 2014-2016
Grade: A-1

Secondary, Karachi Public School 2012-2014
Grade: A-1

Research Experience

Undergraduate Research Project, NED University of Engineering & Technology 2018 – 2020
Department of Petroleum Engineering

Advisor: Hassan Ahmed (Deputy Chief Engineer, Production Technology)

About this project:

- Researched types and causes of completion stresses, along with their applied equations, theoretical underpinnings, and constraints.
- Developed MS-Excel spreadsheet based on the stress equations, to assess the axial limits of various tubulars.
- Designed a completion string for a high-pressured well using Weatherford's completion designing tool "WELLCAT™" and evaluated tubing stresses under varying wellbore conditions.
- Conducted sensitivity analysis on pore pressure and stress analysis on packers, along with anchored and floating completion configuration to ensure their integrity throughout the well life.
- Provided a comprehensive guideline for designing and procurement of equipment for completing an HPHT well.

This project resulted in my bachelor's dissertation. It was supported by Pakistan Petroleum Limited.

Research Papers

1. Prediction of temperature in geothermal reservoirs using hydro geochemical concentrations with machine learning algorithms. ([Github link](#), in progress)
2. Comprehensive stress analysis of completion string in HPHT wells under different load conditions (in progress).

Professional Work Experience

Trainee Petroleum Engineer, Pakistan Petroleum Limited Jul 2022-Present

- Collaborate with senior management on reservoir simulation studies for two ongoing projects.
- Conduct Fluid Composition Analysis, BHP Analysis, Well Testing Analysis (Kappa-Saphir), P/Z Analysis, MDT Interpretation, Prosper and MBAL Modelling.

Trainee Intern, Field Development, Pakistan Petroleum Limited Mar 2021-Apr 2021

- Prepared and presented a presentation highlighting the Technical Overview of the Field Development Department to senior management.
- Developed a thorough understanding of field appraisal, the field life cycle, field development processes, and concept selection.

Trainee Intern, Kandhkot Asset, Pakistan Petroleum Limited Aug 2019-Oct 2019

- Established stratigraphic co-relation from logs to identify the zone with optimum reserves.
- Maintained MS Excel spreadsheet for computing well economics.
- Developed Mbal, Prosper, and GAP models from raw data.

Trainee Intern, Sui Southern Gas Company Sep 2018-Oct 2018

- Coordinated with different departments and evaluated the network of sales gas plants.
- Established a sound understanding of natural gas and its properties, Pigging, Hot tapping and Cold cutting, Transmission, Distribution and service Pipelines, and Gas Chromatography.

Courses/Training

- | | |
|---|-------------|
| • Machine Learning with Python (IBM ML0101EN), IBM Cognitive Class | in-progress |
| • Python for Data Science (IBM PY0101EN), IBM Cognitive Class | 2023 |
| • Advanced Excel & Power BI, Irfan Bakaly | 2023 |
| • Advance Gas Condensate & Reservoir Management, Whitson | 2023 |
| • Well Testing Design & Interpretation (PT/RT Analysis), KAPPA | 2023 |
| • Reservoir Simulation, IHRDC, supported by PPL | 2022 |
| • SAP-ERP Functional Consultant-Materials Management, Excellence Delivered – NAVTAC | 2021 |
| • Project Management Professional, NED University of Eng. & Tech. PM framework, PM lifecycle & phases, PM knowledge areas | 2020 |

Skills

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|-----------|-------------------------------|
| • Python | • Kappa-Saphir |
| • Prosper | • WellCAT |
| • MBAL | • MS Word, Excel, PowerPoint. |
| • GAP | • Schlumberger ECLIPSE |
| • Petrel | • T-Navigator |
| • OFM | • Fluid Modeler |

Selected extra-curricular activities

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| • Sponsorship Lead, Student Energy NEDUET Chapter | 2019-2020 |
| • Member, Society of Petroleum Engineers (SPE) NEDUET Chapter | 2018-2019 |
| • Co-organized “International Virtual Event for Sustainable Energy Future 2020”. | |
| • Co-organized “4 days international course on Hydraulic Fracturing by Hernan Buijs in April 2020. | |
| • Co-organized technical lecture “Hydrostatic testing of Oil and Gas Pressure Equipment” by Engr. Silvia Pizzigoni, Planning & Production Engineer at Petrovalves, Italy on 10th May 2020. | |

- Co-organized “Success Journey from NED University to Stanford University and Silicon Valley”, with Engr. Arhamna Batool Haider, Applied Scientist at Amazon Intelligence Team on 20th June 2020.
- Co-organized “Energy in Developing Countries”, with Engr. Abdelnaser Dwaikat, President of the Association of Energy Engineers, on 10th July 2020.
- Co-organized lecture on “Energy Industry Trends, Leadership and Building a Robust Career” by Mr. Syed Asim Rashid, President & CEO of Creative Swan. December 19th, 2019.’

References

Dr. Javed Haneef
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 Department of Petroleum Engineering,
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Dr. Shamsoon Fareed
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