Adan Malik

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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 "WELLCATTM" 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. (<u>Github link</u>, 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

in-progress 2023
2023
2023
2023
2023
2022
2021
2020

Skills

thon
thon

- Prosper
- MBAL
- GAP
- PetrelOFM

- Kappa-Saphir
- WellCAT
- MS Word, Excel, PowerPoint.
- Schlumberger ECLIPSE
- T-Navigator
- Fluid Modeler

Selected extra-curricular activities

• 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.