

WAQAR ALI JAVED

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Sponsorship: Not required

IWCF Certificate # CR-175885



Offshore Certificate: OEUK Medical, BOSIET CA-EBS, MIST, Escape Shute

PERSONAL STATEMENT

I am a self-motivated Petroleum Engineer with more than 11 years of experience in Production monitoring and optimization in E & P companies, specializing in Drilling , Reservoir, Geology , well logging and Petroleum Engineering softwares. Adept in utilizing various Petroleum Engineering software's like IPM (Petroleum Expert Suit PROSPHER, GAP, MBAL, PVTp), OFM (Production monitoring and forecasting), ECLIPS (simulation), GOFHER (Frack Design), SAPHIR (Pressure & Rate transient analysis) and PEEP (Project Economic Evaluation). I have also experience in AI tools installation and work in Python for generating automated software test cases. I am team player and have participated in key projects of innovation and production optimization.

CORE QUALIFICATIONS

- Well Completion & Workover Design
- Hydraulic frack Design & Supervision
- Artificial Lift Design & Supervision
- Field Production Monitoring &
- Optimization
- Rig less Well Intervention Design & Supervision
- Project Management and optimization
- Python programming language

WORK EXPERIENCE

CONSULTANT PETROLEUM ENGINEER.

(June 2024- Till Date)

SELF EMPLOYED

I have more than 12 years of experience as a Petroleum/Production engineer in an upstream oil and gas industry. Currently, I am working as consultant self Employed, UK. My key expertise include:

- Deliver in-depth technical expertise in reservoir engineering, production, and drilling to empower AI-driven learning models.
- Produce and review detailed technical documentation on petroleum engineering concepts, processes, and best practices.
- Utilize your understanding of thermodynamics and fluid mechanics to create and validate AI training datasets.
- Collaborate cross-functionally with data scientists and AI engineers to ensure accuracy and relevance of technical content.

- Interpret well logging and testing data for integration into AI algorithms and digital tools.
- Apply your proficiency in computer modeling software (e.g., Eclipse, CMG) to simulate reservoir behavior and optimize content creation. Communicate complex engineering principles clearly through both written and verbal channels to technical and non-technical audiences.
- Identify and Execute Flow Assurance studies at Field and well level based upon PVT data & current flowing parameters and carryout remedial jobs to enhance the productivity of wells.
- Develop and coordinate major studies in any of the Petroleum Engineering, Reservoir and Simulation areas based upon objectives and requirements established by Management by interpreting scope, initiating new studies or applied technical work as required and directing and performing all phases of the study through formal summary reports and presentation to Management.
- Plan Workovers for Problematic Wells after evaluation of Well Integrity and production data. Plan Well Killing, Tubing and Packer pulling of all types of completion equipment's, Fishing, plug setting and retrieving for Workovers.
- Ensure well integrity of all wells by monitoring annulus pressure and carryout integrity diagnoses including corrosion logging and prepare remedial jobs based on interpretation and international standards. NORSO standards.
- Preparation of budgetary cost estimates (AFE) of well Completion equipment, and services for carrying out well completions and work overs.
- Prepare and Monitor asset goals in line with Company corporate and Business level strategies.
- Prepare Project Economic Evaluations for management and recommend the viability of Projects based upon evaluation.
- Monitor well performance and identify remedial jobs to enhance the production through Wellbore cleanouts, perforation/additional perforations, water shut offs and selective isolation.
- Develop and coordinate major studies in any of the Petroleum Engineering areas based upon objectives and requirements established by Management by interpreting scope, initiating new studies or applied technical work as required and directing and performing all phases of the study through formal summary reports and presentation to Management and Owner Company technical personnel.

SENIOR PRODUCTION ENGINEER (Mar 2018- June 2024)

ADHI ASSET OFFICE ISLAMABAD, PAKISTAN PETROLEUM LIMITED

- Design Well Head, X- Mass tree and down hole completion equipment's, Tubing movement, tubing size selection and devising completion strategies based upon logs data and field production.
- Plan Workovers for Problematic Wells after evaluation of Well Integrity and production data. Plan Well Killing, Tubing and Packer pulling of all types of completion equipment's, Fishing, plug setting and retrieving for Workovers.
- Ensure well integrity of all wells by monitoring annulus pressure and carryout integrity diagnoses including corrosion logging and prepare remedial jobs based on interpretation and international standards. NORSO standards.
- Implement new AI based software's for Production Monitoring and optimization.
- Developed software for update and action plan preparation related to integrity issues of wells and other assets.
- Monitor well performance and identify remedial jobs to enhance the production through Wellbore cleanouts, perforation/additional perforations, water shut offs and selective isolation.
- Design & optimize fluid systems for Hydraulic frac jobs based upon Mechanical Earth Models (MEM) and Reservoir Parameters using GOHFER Fracture Modeling Software.
- Identify and Execute Flow Assurance studies at Field and well level based upon PVT data & current flowing parameters and carryout remedial jobs to enhance the productivity of wells.
- Develop and coordinate major studies in any of the Petroleum Engineering areas based upon objectives and requirements established by Management by interpreting scope, initiating new studies or applied technical work as required and directing and performing all phases of the study through formal summary reports and presentation to Management and Owner Company technical personnel.
- Preparation of budgetary cost estimates (AFE) of well Completion equipment, and services for carrying out well completions and work overs.
- Prepare and Monitor asset goals in line with Company corporate and Business level strategies.
- Prepare Project Economic Evaluations for management and recommend the viability of Projects based upon evaluation.

FIELD PRODUCTION ENGINEER
SUI GAS FIELD, PAKISTAN PETROLEUM LIMITED

(Sep 2013- Mar 2018)

I have worked as Field Production Engineer in Pakistan Petroleum Limited which is Pakistan's one of the largest Gas producing National Company. Pakistan Petroleum Limited is the (100%) Operator of SUI GAS FIELD which is currently the largest Gas Field in Pakistan with 11 TCF Proved reserves. My job responsibilities include:

- Assisted Well site drilling Engineer and Supervisor during drilling, casing running, logging and completion operations.
- Prepared Daily Drilling reports and coordinated with Field services companies to comply drilling programs.
- Supervised Drill Stem Testing Operations (DST), Workovers & Completions of single string and dual string wells.
- Supervised well Intervention jobs like Coil Tubing clean out, Acid Stimulation, Nitrogen Kick Off, thru tubing milling, DTS surveys, Tubing Conveyed Perforations (TCP), Wire line Perforations and Correlations, Slick line gauges settings, Plug setting and Fishing operations.
- Supervised Surface Well testing of oil and gas wells using in-house resources of the company.
- Supervised Surface Network installation i.e., Feeder lines, Well Safety System and chemical injection system of Gas wells.
- Monitoring daily production and injection performance and ensure effective production data management in conjunction with the Operations department.
- Monitor and ensure the integrity of barriers of producing wells and prepare remedial jobs accordingly.
- Experience with Production facing Wells support and risk management.

EDUCATION
EXECUTIVE MBA
NUST Business School Islamabad

(Sep 2020- Sep 2022)

- Major Subjects
Financial Risk Management, Corporate Governance, Strategic Management, Supply Chain Management, Strategic Management, Financial Institutes & Marketing, Operations Management, Marketing Analytics, Change Management. Corporate law & Business Legal Environment and Contemporary Management., Python Programming Language.

PETROLEUM AND GAS ENGINEERING **July 2008- June 2012)**
University of Engineering and Technology Lahore, Lahore (Pakistan)

- Major Subjects
Reservoir Engineering and Petroleum Geology: This course contains fluid flow through porous media, Development of Field, Reserve estimation methods and Simulation.

- Well Drilling and Completion: This course contains Casing design, BHA design, Drilling Optimization, Problems of different formation and Well Control Issues.
- Production Engineering: This course contains Completion optimization, Surface facilities design, Secondary Recovery and Enhance Oil Recovery

PROJECTS ACHIEVEMENTS

- **Production Enhancement of Sui Gas Field using Acid Stimulation in Depleted Carbonate reservoirs.**
Designed 15% & 20% HCL stimulation with overcoming the challenges of diversion in low permeability streaks by acid foam system and high pressure/ high-rate acid pumping. This resulted in approximately 30 MMSCFD gas increase from Sui Gas Field.
- **Production Enhancement of Adhi Gas Field using Acid Stimulation & Hydraulic fracturing in Depleted Sandstone reservoirs.**
Designed mud & Organic restarted acid stimulation with alcohol in pre & Post flush for sandstone reservoirs to reduce the reaction rate and fines migration issues. The alcohol was used to improve fluid flow back. This resulted in 1000 BPD oil gain.
Achieved best individual award for FY-2022-23 for fracking a well in sandstone reservoir which gained increment of 1200 BPD oil and 3 MMSCFD gas increment.
Designed Hydraulic frac job in sandstone reservoir by reducing polymer damage in depleted reservoirs with 10 Methanol. In depleted reservoirs, frac placement is easy but fluid flow back is the main challenge which was overcome by deploying artificial lift (Jet Pump and CTGL)
- **Work over design and supervision for sabotaged wells.**
Planned workover strategy of sabotaged wells where X-Mass tree was damaged and tilted with parted tubing from Tubing Hanger. An intervention guide was fabricated to align X-Mass tree and tubing to set Slick line plugs in F-Nipple and SSD profile. The Well was completed as dual string with both 3-1/2" tubing in 9-5/8" Casing. The well resulted in 15MMSCFD gain in production.
- **Development of Well Integrity Management software (WIMS)**
Developed software for integrity management of wells and implemented on company server. Generated automated modules to take update from daily reports and update in software.
- **Water Shut-off in faulted Sandstone multi-layer Reservoirs having high water salinity water.**
Water shut-off is challenging in multi-layer reservoirs which are at different pressures and salinity values are above 200,00 PPM. All water shut off job was designed by considering cross flow between formations and high salinity environment where cement settling is a challenge. The resulted in 3 MMSCFD gas gain from a loaded up well.

TRAININGS AND CERTIFICATION

- Pressure & Rate Transient Analysis (Module 1)
Dated March 2023
Venue: PPL Training Center
- Well Completion Operation (Design to Execution)
Dated Dec 2021
Venue: PPL Online Portal
- Cased Hole Logging
Dated February 2020
- Well Integrity Engineering & management.
Dated: Oct-2018
Venue: PPL Training Center
- IWCF FOR WELL INTERVENTION
Dated Mar: 2017
Venue: PPL Training Center
- Basic Completion Design (IHRSCS-online)
Dated: Sep -2016
- RISK ASSESSMENT AND PREVENTION
Valid: 2016-2021
Venue: PPL Training Center
- Intr Piping Pipeline B31.3.,8 & API 570
Dated Jun 2015
Venue: PPL Training Center
- "Reservoir Geo-mechanics" (online) Stanford University
Dated Jun 2015

PUBLICATIONS

1. Achieving Reliable and Cost-Effective Wellbore Cleanout in Depleted and Low-Pressure Wells Using CT Conveyed Fluid Oscillation Tool – Case Histories. **SPE-217353-MS.**
(<https://doi.org/10.2118/217353-MS>)

2. Understanding Your Wells: Conventional Nodal Analysis; Not a Solution for Depleting Fields. SPE-214230-MS (<https://doi.org/10.2118/214230-MS>)
3. Understanding Source of Produced Water with Varying Salinities in Oil and Gas Field of Eastern Potwar, A Case Study. SPE-217372-MS (<https://doi.org/10.2118/217372-MS>)
4. Identifying And Isolating Water Production Zone In A Highly Saline Environment Through Well Interventions Techniques. SPE-218790-MS (<https://doi.org/10.2118/218790-MS>)