

Muhammad Ali Aslam | MSc Petroleum Engineering

PETROLEUM ENGINEER/PRODUCTION OPERATIONS ENGINEER/WELL TESTING ENGINEER

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Address: House 36, Street 114, G-11/3, Islamabad, Pakistan | **Nationality:** Pakistani

Marital Status: Married | **Driving License:** Qatar, Pakistan, IDP | **Registered Engineer:** IGEM-UK & PEC

All-Round Experience in Petroleum Engineering

A highly analytical and technically proficient **MSc Petroleum Engineering** graduate possessing above five years of experience working with and on behalf of Exploration and Production companies in both Production and Reservoir Engineering domains. Possesses both planning and operational experience as being skilled in supervising completion operations, wireline operations, SWT operations, rig-less operations, well intervention services and other production related services. Offers hands-on experience with surface well testing, coiled tubing, slickline, DST/TCP, cased hole wireline, sand trap services, data acquisition and instrumentation. Also offers experience with production optimization, pressure transient analysis, well modelling, 3D mechanical modelling, production forecasting, nodal analysis, wireline logs interpretation and well performance analysis software's. Experienced with power and heavy civil industry in Qatar.

Aiming to become Chartered/Professional Petroleum Engineer with both UK & Pakistan Engineering councils as well as preparing for SPE Chartered Petroleum Engineer exam. Currently seeking Petroleum Engineer position with major operators utilizing six years of operational and planning experience.

KEY SKILLS

- 5 years of Petroleum Engineering experience
- 1 year of Electrical Engineering experience
- Hands-on experience with SWT, DST & Slickline
- Solid Field Experience with Reservoir Engineering
- Completion Design & Operations
- Operations supervision during Drilling Campaigns
- Otis & Baker Completion Tools
- Production Operations
- Technical Report Writing
- Safety Standards Compliance
- 3D Mechanical Modelling
- Production Database Administrator
- Maintained membership with SPE, IGEM & PEC
- Well Modelling & Calculating Reserves
- Production Optimization, Nodal Analysis
- Reservoir Performance, Well & Network Modelling
- Intelligent Wells & Multiphase Flow Meters
- IPM Prosper, MBAL, PIPESIM, WellFlo, and Saphir
- Kappa Saphir 5.12.3, Petrel RE, Eclipse, Nexus VIP
- Reservoir Management
- Expert Presentations at TCM's
- Prospect Evaluation, History Matching & Forecasting
- Solid experience in leading all Wireline Operations
- Technical/Financial Evaluations of Service Biddings
- Pressure Transient Analysis
- Vast travelling experience

Education & Qualifications

- **January 2012 - July 2013: MSc in Petroleum and Gas Engineering**
 - **University of Salford, Manchester, United Kingdom**
 - *Dissertation: Detailed study of Natural Fractures and Spontaneous Potential Logging of Reservoir*
- **December 2004 - November 2008: BSc Electrical and Electronic Engineering**
 - **Islamic University of Technology, Dhaka, Bangladesh**
 - *Passed with 1st Class | Majored in Power Systems; senior year project: Wireless Power Transmission*
 - *IUT is the highest ranked International Engineering University in Bangladesh and is funded by [OIC](#)*
 - *Awarded with partial scholarship from OIC to study as a foreign student in Dhaka, Bangladesh*
- **September 1992 - August 2004: HSSC Pre-Engineering & SSC Science**
 - **Islamabad Model College for Boys G-10/4, Islamabad, Pakistan**

Professional Experience

August 2014 – Present: Petroleum Engineer

Petroleum Exploration Limited, Islamabad, Pakistan

PEL holds largest acreages among private sector E&P Pakistani companies with operations in Pakistan and Morocco

- Analytically assess & determine ways to enhance production output using multiple technical methodologies.
- Independently supervised production operations and various well services (including completions, wireline, slickline, coil tubing and well testing primarily) and developed models of reservoir, wells and network for all gas condensate wells. Performed wells & network modelling for production optimization, pressure transient analysis and reservoir simulation through industry's leading software's.
- Managed various complete drilling campaigns and managed various rig-less operations independently.
- Regularly visit producing fields and oversee all the routine work. Spend 70% of time at office and 30% on fields related to drilling campaigns, BHP surveys, workovers and rig-less operations.

- Acquired extensive supervising and technical experience on all production- related service such as wireline, slickline, surface well testing, completions, DST/TCP, MDT, TRS, wellhead and coiled tubing.
- Proficient with most trouble shooting scenarios occurs during slickline & wireline interventions, SWT operations, completion equipment failure, shutting off water zones and re-perforation opportunities.
- Proficient in closely monitoring the working of related service companies and verification of their invoices according to the work done as per the service contract as well as verify the reports.
- Prepared detailed programs for all production related services, including surface well testing, slickline, cased-hole wireline, completions, coiled tubing/stimulation and other production related services. Skilled in writing the Production Operations program sequence to be incorporated in G&D manuals. Also, skilled in writing programs for work-overs, water disposal wells and all rig-less operations.
- Assists in preparation of completion job running program and provides superior technical support during all operations to ensure maximum profitability/well output.
- Proficient in designing most completions for both exploratory and development wells by considering different well conditions. Currently planning and designing for four new wells to be drilled soon.
- Demonstrates extensive full knowledge of Otis & Baker tools and Cameroon wellheads/trees.
- Independently assembled completions by connecting each tool to verify that the thread type and size match with the purchase order. Can perform pressure and function testing of SSSV and SSD. Takes length and OD/ID measurements to ensure exact space out calculation.
- Independently supervise all wireline operations, including depth correlation & shot/setting confirmation such as packer setting, tube cutting, bridge plug setting, retainer setting, CBL/VDL logging, cementing, power cutting, liner puncture, PLT-PSP-RST, GR-CCL and perforations.
- Skilled in supervising most slickline operations with depth correlation BHP surveys, setting/pulling plugs, opening/closing SSD's, hanging gauges, tubing clearance, tubing end locator, fishing jobs. Knowledgeable of all running pulling tools and able to identify tools through visual inspection.
- Created inventory of all slickline tools at warehouse Fully capable to lead all SWT tests including flow after flow, post-completion test, completion integrity, clean ups, isochronal, BHP surveys and complete knowledge of other tests such as interference, pulse, modified isochronal and sand monitoring.
- Skilled in supervising DST/TCP, CT, Tubular Running, wellhead/XMAS Tree and other production-related services during drilling campaigns, BHP surveys, work-over & rig-less operations.
- Proficient with troubleshooting scenarios occurring during slickline and wireline interventions, Skilled in operating Xmas tree valves, above SSSV & annulus pressure bleeding, securing & opening well.
- Make Final/End of Well Report, Tubing Tally, Well CHRONO & compiled records for all wells & offsets.
- Carried out Reconnaissance survey for pipeline laying of Ayesha and Ayesha North fields.
- Extensive experience on Petrel RE & Eclipse 100 to perform simulation studies of major fields in co-ordination with G&G department for the preparation of the earth model.
- Skilled at performing well modelling, production forecasting, DST report interpretation, IPR, VLP, nodal analysis, choke performance, tube movement, pipeline capacity, space out, volume calculations, ELAN analysis and basic PLT-RST, GR-CCL, CBL-VDL logs analysis.
- Developed reservoir, well & network models of all fields using Pipesim and Prosper.
- Analysed/interpreted pressure transient data to estimate reservoir parameters. Performed numerous interpretations through Kappa Saphir (non-commercial purposes) to verify 3rd party work.
- Database manager and have used OFM to perform production analysis, forecasting and DCA.
- Have worked at all almost all major Petroleum Engineering software's as well as possessing keen interest of new technologies such as intelligent completions, digital oilfield & fibre optic well control.
- Regarded as expert in giving Production and Reservoir sections presentations at TCM's discussing field development and current assets operational activities with JVP's and senior management.

September 2010 – July 2011: Electrical Engineer

Unicon Limited, Doha, Qatar

Acquired heavy industry experience at Qatar's largest Greenfield wastewater sludge treatment plant site

- Worked at substations operated by [KAHARAMA](#) (the national electricity company of Qatar) within an array of Qatari mega-projects and adhered to their stringent HSE standards.
- Developed experience working with substations and construction of mega treatment plants.
- Successfully executed electrical MEP, LV/HV works including at primary & secondary substations, treatment plants and provided support services to chemical & civil departments.
- Work included HV/LV cable laying, main panel, main switchboards, sub main boards, fire alarm system, HV/LV switchgears, diesel generators, MCCB's, weatherproof and explosion proof cables, small power & lightning system, earthing & lightning protection, protection relays and area lighting.
- Managed teams of skilled workers including Electricians, Supervisors & Foremen and assisted Project Managers and other engineering teams in the implementation of electrical MEP works.
- Ensured work was completed as per specifications and diagrams. Gained confidence working and leading teams independently. Simultaneously executed various projects in limited time.

May 2009 – August 2010: Junior Field Engineer (Surface Well Testing/DST)

Eastern Testing Services (ETS), Islamabad, Pakistan

ETS is a leading multinational oilfield services company with operations in Pakistan, Iraq and Kuwait

- Assisted with activities relating to surface well testing, drill stem testing and slickline services on behalf of major operators including Pakistan Petroleum Limited, Dewan Petroleum and POGC.
- Worked on all full package jobs gaining experience of working in all domains.
- Worked mostly in SWT, slickline-wireline multi services operations and maintenance of DST/TCP.
- Involved in various jobs of surface well testing at exploratory, rig-less and work-over wells.
- Skilled in performing function testing and pressure testing of all surface well testing equipment.
- Skilled in operating and rig up/down with 3-phase separators, surge tank, gauge tank, oil manifold, gas manifold, surface safety valves, choke manifold, emergency shutdown system, indirect heater, sand trap, oil burner, fluid sampling and DAQ instrumentation.
- Mastered myself in leading Sand Monitoring operations at oil wells having issues of sand.
- Remained attached with the full package crew of testing, slickline-wireline multi-services unit.
- Performed maintenance and re-dressing of HD Packers (4 ½", 5", 7", 9 5/8"), tester valves, slip joints, Big John Jars, exit valves, circulating valves and other DST string tools.
- Extensive time spent in job preparations for SWT, DST, TCP, slickline and wireline services.
- Monitored well head, upstream & downstream (pressure and temperature), BS&W, pH, changing Daniel orifice meter, calculating shrinkage factor, gas rate and oil rate. In charge on night shift and completed operations as per program and client instructions while adhering to strict HSE principles.
- **Successfully executed the following Surface Well Testing and Slickline Operations:**
 - Isochronal test and modified isochronal test at Rehman-1 POGC tight gas
 - Drawdown and build-up tests at Adhi, Dewan & Rehman fields
 - Well clean-up jobs, post-hydraulic fracturing clean-ups at Adhi and Rehman-1
 - Sand trap operations at Adhi oil wells
 - Flow after flow tests at Adhi gas condensate wells
 - Flowing and static bottom-hole temperature and pressure surveys of various fields
 - Setup production packer through wireline at Dewan 5A
 - Running of memory gauges through slickline at Rehman
 - Fishing of separation sleeve through slickline at Adhi-14

April 2009 – May 2009: Intern – Field Engineer (Coiled Tubing)

Sprint Oil & Gas Services, Islamabad, Pakistan

- Acquired experience on coiled tubing and assisted technical crew as directed by supervisor.
- Learned about the principles/applications of coiled tubing units, operation and maintenance.
- Worked also in the Fabrication Department gaining hands-on experience of argon welding, CT bend straightening, hammering, scrapping of various equipment's/tanks/reels and cleaning/housekeeping.
- Hands-on working with cementing department such as material storage and equipment maintenance.
- Involved in nitrogen kick off job through coiled tubing at Pindori-4 POL. Rig up & Rig down assistance.
- Made "All Jobs Record Organization" of Sprint from "Company's Inception till April 2009".

Professional Degree Accreditations and Memberships

- Graduate Member of [Institution of Gas Engineers and Managers](#) (IGEM, UK Engineering Council)
- Professional Member of [Society of Petroleum Engineers](#) (Member since 2013)
- Registered Engineer with [Pakistan Engineering Council](#) (Elect/25196 with MSc Petroleum endorsed)

Courses & Training

- Fire Prevention and Safety Officers Course for Oil Installations at [National Institute of Fire Technology](#).
- IUPI Course by [NeXT Interactive](#) of Basic Drilling, Exploration, Production, Reservoir Engineering.
- Fire Fighting, First Aid, Defensive Driving, Risk Assessment, Stepping & Handling done at [ETS](#) base.

Software Proficiencies

- IPM Prosper, MBAL, GAP, Eclipse, Petrel, OFM, Pipesim, Weatherford Wellflo, Kappa Workstation, Saphir, Topaze, Citrine, PanSys, Fekete FAST, SolidWorks, Sketchup Pro and knowledge of all related.

Certificate (Level 8 is equivalent to PhD in UK Education System)

- **October 2013 - May 2014: Level 8 Diploma/Certificate in Strategic Direction and Leadership**
 - **Bradford Regional College (CMI), London, United Kingdom**
 - Completed two modules under CMI examination out of total six to attain Certificate qualification.

References will be provided upon request