

ASHIQ HUSSAIN MOHAMMAD

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Nationality: Pakistani

WELL INTEGRITY SPECIALIST

Profile

Self-driven and result-oriented petroleum engineer with diversified experience of onshore and offshore companies for 31 years in Pakistan and United Arab Emirates. The main areas of experience involved completion operations, production engineering, well site facilities maintenance, well integrity operations and integrity management system of wells.

While working at various projects and assuming several roles during my career at the field as well as in the office, my responsibilities included ensuring smooth performance of the company's completion & production operations and integrity management of wells.

I have a track-record of being the winner of several HSE and innovation awards, involving in different taskforces and work groups to investigate and study different aspects of well problems, substantial business process improvements, production enhancement and cost reductions by deploying new technologies and re-engineering processes.

During my career, I have always tried to reach out for challenges and during this time, I had ample opportunities to groom myself into a skilled professional with multidisciplinary technical abilities.

Technical & Business Skills

- Experience in well integrity activities, well data interpretation and critical diagnostic analyses for the corrective measures to ensure integrity of the wells.
- Experience in developing well integrity standards, guidelines, procedures, well integrity business processes, RACI charts and Integrity management system.
- Experience in managing contracts and projects related to new fields development, well integrity management system, well integrity backlog elimination and WIMS database.
- Experience of developing well integrity monitoring, investigation and testing programs to assess risks associated with the well barriers' integrity throughout well life cycle.
- Experience in developing corrective action plans for wells based on the analyses through investigation and testing of well integrity.
- Experience in developing KPIs for well integrity compliance, well assurance and performance management of the WIMS.
- Good working knowledge of petroleum engineering subjects, production operations, reservoir management, production chemistry, production technology and well integrity.
- Experience of involvement in different studies and task forces to develop strategies and methodologies for production enhancement and well integrity management.
- Skills in developing well integrity competency standards and professional development ladders for competency assurance of staff.
- Strong verbal communication and interpersonal skills, good reporting and presentation skills, ability to network effectively at engineering and operational levels in the organization.
- Self-motivated and results oriented to work effectively under time pressure without direct supervision in multi-disciplinary teams and willing to accept accountability on decisions made.

Professional Experience

March 2019 – Till now

Well Integrity Specialist

Al Dhafra Petroleum Operation Company (ADNOC Group), Abu Dhabi, UAE

The main activities during this period included:

- Acting as Well Integrity technical authority for the company
- Developing well integrity management system (Business processes, technical documentation, well certification, etc.) for the company
- Providing well integrity related input to the operations and maintenance of the wells

September 2014 – Feb. 2019

Self Employed Consultant – Islamabad, Pakistan

The main activities during this period included:

- Delivering refresher courses about Well Integrity Management at training institute of OGDCL Oil & Gas Development Company, Islamabad, Pakistan
- Preparing further new courses like well integrity project management and developing new well integrity team.

March 2007 – August 2014

Well Integrity Section Lead – ADMA-OPCO (ADNOC Group), Abu Dhabi, UAE

I worked for the effective implementation of well integrity management system by taking care of integrity of all the offshore wells of the company. The main responsibilities included:

- Keep the well integrity documentation (Standards, processes, guidelines) updated as per international standards. Arrange documents review for gap analysis and improvements.
- Ensure well monitoring, maintenance and integrity testing programs for surface and downhole barriers components (Specially SCE) are in place and followed through Maximo (CMMS).
- Review summary records of well integrity to ensure data quality check takes place properly to investigate/ evaluate well integrity status and report timely to the management.
- Ensure liaison with drilling and other teams to ensure well construction, remedial and maintenance plans fully meet well integrity requirements and provide technical/ operational support as and when required.
- Manage well integrity related projects/contracts including preparation of SOW, technical evaluation of vendors' proposals, review project plans and follow up contract's execution.
- Prepare, present and seek approvals for work plans, manpower allocation and budgets to achieve well integrity business activities.
- Introduce new technology and industry best practices and procedures to assure well integrity problems are solved during well life cycle.
- Assure that the defined procedures and dispensations for non-routine well operations are adequately reviewed and valid to avoid potential hazards.
- Arrange and involve risk assessment of operations, point out deficiencies, propose corrective measures and communicate to the field.
- Diagnose failures of barriers integrity and propose remedial actions. Launch investigations or studies on identified integrity concerns. Postmortem analyses after corrective actions.

- Prepare technical reports and presentations for management/shareholders in the TCMs showing the improvements in well integrity developments and identifying the deficiencies where the management help is required.
- Participate in panel interviews and selection of newcomers. Coach and mentor subordinates/young engineers and perform their annual appraisals.
- Being the well integrity subject matter expert (SME) for the Division, involved in the engineers' professional ladders assessment in the company and other OPCOs.
- Prepare and update the competency profiles and job descriptions of the well integrity team members and develop business processes and RACI charts for stake holders.
- Get involved in different task forces to investigate integrity accidents, study/ evaluate new technologies, risk assessments for well integrity assurance and production enhancement.
- Provide inputs for audit, well certification, inspection services and in HAZID, QRAs, ALARP and studies.
- Lead preparing regular reports for Well Integrity Matrices and KPIs

November 2003 – February 2007

Well Integrity Engineer – ADMA-OPCO, Abu Dhabi, UAE

The job responsibilities included:

- Prepare well integrity data monitoring and integrity investigation plans, communicate to fields and follow up timely data gathering, quality checked and entry in the well integrity database.
- Hands on experience of well integrity management software. Analyze the data, review trends, prioritize wells with apparent integrity problems, detailed review for risk assessment of wells, develop risk mitigation action plans and follow up.
- Maintain, update and upgrade the well files/folders. Review the integrity parameters of each well and define integrity level status. Inform the line management without any delay in case of loss of barrier of any well.
- Define operating envelop for wells and ensure these are operated accordingly. In the event of deviations, seek dispensations and manage changes made to the system.
- Frequent contacts with Field, Reservoir and Drilling divisions' concerned personnel to coordinate and review well integrity issues, daily rig/barge activities and well certification to alert concerned departments for shortfalls in well integrity.
- Participate in investigating major incidents, conducting risk assessments, preparing special procedures for non-routine operations and making recommendations for improvement.
- Field visits to supervise investigative/corrective work on wells and provide support to offshore personnel in investigating specific problems and recommend actions.
- Part of the audit team for offshore compliance on well operation instructions related to well integrity and define gaps for improvements in the well integrity management system.
- Update scores of well integrity compliance and other KPIs.
- Prepare periodic reports and presentations on well integrity status for the management.

July 1995 – October 2003

Senior Production Engineer/Field Manager - OGDCL, Pakistan

Main responsibilities included:

- Review daily well monitoring and resources deployment plans to ensure that wells are operated as per designed operating envelope and complying with company HSE policies.
- Scrutinize field production and maintenance activities plans, review job methodologies and procedures for workover, completion, well intervention, stimulation operations and provide feedback for improvements.
- Review well programs considering production flow rates and forecast materials & services requirement in view of the Company's upcoming projects.
- Review the identified well operations problems and different solutions and manage resources for the remedial activities.
- Review plans for commissioning of new wells and their connection with the field gathering system for production enhancement.
- Develop/Review technical assessment and cost benefit analysis for new technologies deployment and implementation at the field.
- Prepare annual budget for the field activities, prepare plans for human resources development and provide input for the planning of future development of fields.
- Coordinate with the service companies and vendors for the timely supplies of equipment and services required for the production and well services operations.
- Review criteria, specifications and compatibility documents to ensure hiring of vendor services and equipment bear quality and cost effectiveness.
- Involve in the teams for field production volumes enhancement, sales contracts renewals, and modification in the gathering systems, human resources training and development programs.
- Optimize performance of the production system from well perforations to sales point in close coordination with reservoir engineers. This included monitor system performance, identify deficiencies to measurements, capacity restrictions and bottlenecks, make programs to optimize well and facility operations and recommend improvements.
- Coordinate field projects and contracts execution and contribute to capacity planning, hydrocarbon allocation, Force Majeure claims and measurement issues related to field products distribution companies.

February 1993–June1995

Research Assistant -King Fahd University of Petroleum & Minerals, Dhahran, Saudi Arabia

Joined Petroleum Engineering Department of KFUPM for pursuing master's degree in Petroleum Engineering and studied advanced courses and completed research work to complete the degree program. During this period, get involved in following activities:

- Carry out the experimental and simulated research work comprising a comparative study about recovery performance and relative permeabilities of single versus composite cores.
- Supervise undergraduate students in performing their laboratory experimental work
- Assist department professors in the evaluation of undergraduate students for their assignments, tests and examinations.

- Assisted the staff of 'Research Institute' of KFUPM in the installation of the experimental set ups for capillary pressure measurements, core samples cleaning and saturation, petrophysical properties measurements and water drive floods on core samples.

November 1988 – January 1993

Completion & Production Engineer, OGDCL, Pakistan

I worked for the national oil company (Oil & Gas Development Company Limited) at different oil and gas fields and gained excellent experience in completion/ production operations, well intervention, well testing, well services and well treatment techniques. The main responsibilities included:

- Attachment at the rig sites to supervise well completion operations of new and workover wells which involved completion, downhole equipment, wellhead, Xmas tree installation and testing as per standard guidelines and procedures.
- Monitoring of oil/gas wells, data gathering, and record updating in the database. Parameters reviews, trend analysis and plan actions for mitigation to meet production targets.
- Prepare daily well monitoring, production and drilling/workover operations reports for management and concerned departments.
- Supervise specialized jobs like installation of control panels, line heaters, wellhead and Xmas tree valves replacement, etc. at the well site.
- Coordinate with the vendors for equipment, material and vendor's mobilization to the field for wire line, coil tubing, stimulation, well testing and WH/Xmas tree operations.
- Verify work performed by the contractors & service companies in the light of defined procedures and as per company HSE regulations.
- Supervise the safe and secure crude oil transportation from field batteries to refinery through tankers/pipelines to avoid litigation with customers (refineries).
- Field trials of new equipment by the vendors, technical evaluation, job procedures review, risk assessments and post job evaluation.
- Involved in the maintenance of surface facilities like test separators, line heaters, control systems and oil & gas monitoring and measuring meters.

Achievements & Awards

- Took active part in completing the 'Well Integrity Backlog Elimination Project' and 'WIMS Development project'.
- Led the team in 2010 for re-writing the company Well Integrity Standards document and added many new chapters to it.
- Won many Innovation and HSE awards for ADNOC and ADMA-OPCO which included 'Wells Risk Ranking Methodology', 'Leak Rate Measurement Skid', 'New Valve Lubricant' for Wellhead & Xmas tree valves, 'Modification in DHSV lock' and 'Gas Tower SIMOPS'.

Technical Papers

- (SPE-105319) "A Comprehensive Approach to Well Integrity Management in ADMA-OPCO", presented at MEOS (Middle East Oil Show), Bahrain in March 2007.
- (SPE-117961) "Design and Fabrication of a Low Rate Metering Skid to Measure Internal Leak Rates of Pressurized Annuli for Determining Well Integrity Status" presented at ADIPEC (Abu Dhabi International Petroleum Exhibition & Conference), Abu Dhabi, UAE in November 2008.

- (SPE-161160) “A Novel Approach to Measuring the Quality of Well Integrity Performance in ADMA-OPCO” presented at ADIPEC in Abu Dhabi, UAE (November 2012).

Professional Activities (Conferences & Workshops)

- Steering Committee member for SPE ATW “Production & Operations: Tools for Well Integrity Management” at Chester, United Kingdom in October 2009
- Discussion Leader at SPE Forum Series “Advancing Well Integrity Technology” at Hammamet, Tunisia in May 2010. Presented ‘ADMA-OPCO Wells Risk Ranking Process’.
- Member Expert Speaker Panel in IQPC (International Quality & Productivity Centre) “Well Integrity MENA 2011 Conference & Workshop” at Abu Dhabi, UAE in March 2011
- Presenter at Terrapinn “Well Integrity and Intervention World Middle East 2011 Conference” at Abu Dhabi, UAE in October 2011. Presented ‘Risk Management of Medium Risk Wells’
- Co-Chairperson for SPE ATW “Well Integrity Management: Life Cycle Risks, New Standards and Regulations, Data to Decisions, and New Technologies”, May 2012 at Abu Dhabi, UAE.
- Participated in “Well Integrity and Intervention World Middle East 2012 Conference” 25-26 September 2012 at Abu Dhabi, UAE arranged by Terrapinn.
- Presenter at IQPC summit “9th Annual Asset Integrity Management” at Muscat, Oman in April 2014. Presented ‘Effective Well Integrity Management in Mature Oil & Gas Fields’.

Academic Profile

- **M.Sc. (Petroleum Engineering), 1995**
King Fahd University of Petroleum & Minerals, Dhahran, Saudi Arabia
- **B.Sc. (Petroleum Engineering), 1988**
University of Engineering & Technology, Lahore, Pakistan

Certification & Membership

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| ▪ Passed SPE Petroleum Engineering Certification Program | | 2006 |
| ▪ Member Society of Petroleum Engineers | (1998565) | 1998 |
| ▪ Professional Engineer “Pakistan Engineering Council” | PETGAS-153 | 1988 |

Social Activities

- Founder of a small setup “Educational and Welfare Society” (a local organization in Mianwali, Punjab, Pakistan) which strives for the educational and social development of students preferably girls.

Extra Skills

- Fluent in English, Urdu, Punjabi languages. Can write and read Arabic
- Extensive usage of professional software, MS Office, Internet, etc.
- Like to play Badminton, go jogging, and reading books, newspapers
- Events’ organizer (poetry, debates, convocations, etc.)

References

Can be made available if needed.