Rizwan Ahmed

**Well Completions Engineer**

**B.E Mechanical Engineering**

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Profile

* Detail‐oriented Completion Engineer with a bachelor’s degree in mechanical engineering with nearly twelve years of professional working experience with weatherford International in Pakistan and Iraq Field.
* Currently working on international assignment with rotational work in Basra, Iraq project‐Weatherford.
* Expertise in planning, designing, and executing completion operations and have successfully installed 300+ oil and gas wells using a variety of completions and service tools within budget and on schedule, leading to increased customer satisfaction.
* Experience in the Oil & Gas industry as Field Service Engineer and worked in Iraq for clients (BP, Lukoil, ENI, Exon Mobil and in Pakistan for OGDCL, OPL, PPL, BHP, OMV, UEPL, MPCL and ENI)
* Leading all Completions Single, straddle, Dual, FIV, Gravel pack and service tools jobs.
* Experience in working flexibly and with focus on assignments in various task assigned and comfortable working with multi‐cultural teams.
* Committed to achieving success at completion of assignments. Always seeking a new role using experience to deliver successful operations.
* Experience to take ownership on operations, coordinate/supervise on activities. Maintaining one team one goal environment with others.
* Delivering high‐quality completion engineering services for oil and gas projects.

# Skills

* Engineering experience that includes new well completions, existing well workovers, well suspensions, and well abandonments
* Knowledge in electric submersible pump artificial lift, electric wireline logging and perforating, oil tools, remedial cementing, and coiled tubing operations.
* Professionals to plan and execute complex horizontal completions.
* Demonstrated ability to troubleshoot complex issues quickly and accurately under pressure while always keeping safety top priority.
* Good in follow up’s and keen in maintaining documentation and safety standards.
* Experienced in training local workforce, share and transfer knowledge and expertise.
* Assess project risks & issues and provide solutions where applicable.
* Demonstrate Safety Leadership. Ensure that the Well Completion jobs, Re‐completion Workover jobs and service tool jobs are implemented in compliance with Company’s QHSE Policies & Regulations site and motivated to perform job with high technical and HSE standards.

**Professional Experience**

**Weatherford International (July 2012 to continue)**

**Company: Weatherford Services Ltd. BASRA, IRAQ**

**Field Engineer III, BP Project- Completions Dec 2021 – Present**

Working as dedicated field engineer for BP on north and south Rumaila Project in Basra‐IRAQ. Scope of the project covers completion design, operations planning, field execution at well site and end‐of‐job reporting for all completions and service tool across 10 Workover rand 12 drilling rigs.

Project Support

* + Report to Project coordinator and Operation Supervisor on project/services status and responsible for the design, review and operational execution of completions and service tool jobs that comply with all policies, procedures, and regulations.
	+ Review all well engineering documentation – SOR’s, drilling programs to be fully familiar with planning requirements as appropriate.
	+ Prepare the detailed step‐by‐step completion programme based on the requirement in the well prognosis including the detailed specification of completion accessories, setting depth, completion type, weight, and grade of the tubing, running, and setting procedure and well head design.
	+ Provides front‐line technical support with customer and accurately completes all paperwork prior to or upon completion of job.
	+ Understand the financial processes and support the Supply Chain and Project Control requirements to best manage the financial aspect of completions related projects.
	+ Manage the client inventory record and support the client in the asset development.
	+ Preparing Weekly Progress updates, Action Plans/Trackers and Monthly Progress Reports
	+ Design well modelling and evaluation with (WellCAT, well plan and Torque and drag software) to support operations delivery at well site.
	+ Training and mentoring of local and junior staff engineers. Offer recommendations for operational improvements plus implementing optimization and efficiency opportunities.

Field Service Support

* + Executing field installation of both completions and service tools jobs for BP project in Basra IRAQ.
	+ Equipment preparation in workshop with according to weatherford PSRP system, preparing inspection sheets, torque up, stabbing and pressure test of assemblies.
	+ Execute tool deployment for well operations, including water shut-offs, zonal isolation, ESP installation, water injection, Oil producer Completions, cementing, Leak hunt for casing leak and well head modifications. Ensure all tools operate flawlessly and maintain well integrity.
	+ Verify equipment QAQC documents comply with contractual requirements and are fit for the well.
	+ Execute completions for water injector wells with BP‐ ROO. Running weatherford model Blackcat packers, Opti Packers and Praxis packers (Cut to release)
	+ Execute completions for OP wells with BP‐ ROO. Running weatherford straddle packers (WH‐6) with ON‐OFF tool.
	+ Performed installation of ESP jobs with weatherford model Hydrow‐11 and model Praxis packers.
	+ Perform installation of Seal bores weatherford model Ultra Pak packers, ACP, and open hole packers.
	+ Performed installation of various size of Service tools with BP‐ROO which includes multistage Stradasnap upper & lower packer with V111 unloader and bull plug at bottom for multiple acid jobs in a well, DLT Packers with VIII unloaded & storm valve, HD Packer, TSU retrievable bridge plug with DLT for Casing leak, negative test & Change of Well head job, permanent cement retainers (Squeeze jobs), CIBP with Mechanical setting tool /E‐line and composite plugs(Fracguard).
	+ Working on CPAR to investigate the root cause of tools failures.

**Company: Weatherford Services Ltd. BASRA, IRAQ**

**FIELD ENGINEER II- Completions Feb 2019 – Nov 2021**

**DUTIES & RESPONSIBILTIES:**

* + Worked as field service engineer for Lukoil, ENI, and Exon Mobil client in Basra‐IRAQ for West Qurna-1, West Qurna-2 and Al-Zubair Field.
	+ Executed field installation of Electrical Submersible Pumps (ESPs) and gas lift systems jobs with lower and upper completions which includes seal bore retrievable packer with weatherford Model Black cat packer (retrieving seal bore packers), FIV (Formation Isolation valve), LSA with shifting tool, chemical Injection lines, weatherford model Hydrow 11 AP packer (hydraulic set packer), AGV and SSSV for ESP completions with both LUKOIL (West Qurna 2 – Yamama project) & ENI (Al Zubair project).
	+ Perform jobs for retrieving seal bore packers with retrieving tool (Work over jobs)
	+ Executed field installation of Straddle Completions and Mono bore Completions (by using PBR, Anchor Latch and Ultra Pak U Seal Bore Packer)
	+ Executed field installation of water injection well with weatherford model Black Cat TH Hydraulic Production Packer.
	+ Installation of permanent downhole gauges tools for real-time reservoir monitoring, optimizing production efficiency and enhancing well performance.
	+ Responsible for developing well site‐based plans of action with procedures and risk assessments to ensure sound well site engineering, lessons learned, and best practices are applied during well execution.
	+ Apply the Management of Change process in case of any deviation on WORK programs during operations.
	+ Review and approve the end of well reports prepared by WO Supervisors.
	+ Prepare and submit accurate & thorough job reports on a timely basis, utilizing the relevant WPTS (Weatherford Performance Tracking System)

**Company: Weatherford Services Ltd. PAKISTAN**

**Field Engineer- Senior, Completions Dec 2017 – Jan 2019**

**DUTIES & RESPONSIBILTIES:**

* + Work as senior service engineer in completions department and executed jobs with clients (OGDCL, PPL, MPCL, OPL, UEPL, POL, ENI & OMV) at both North and South fields of Pakistan.
	+ Executed jobs as a Lead engineer for all single, straddle, dual and gravel pack completions .
	+ Meet Clients and check the requirements & propose the suitable tools, preparing running procedures, Completion drawing and final reports.
	+ Ensure that system engineering documentation is delivered efficiently before deadline and at the required standards and meet the end user’s operational requirements.
	+ Run different types of completions (single, dual) for oil & gas producer well & injector wells in both vertical and horizontal wells in Pakistan.
	+ Performed installation of dual completions jobs with weatherford model (Hydrow‐11 AP) in conjunction with seal bore packers at different wells with PPL field in Pakistan.
	+ Performed installation of gravel pack job for preventing sand control (with Black cat packer, WFX Gen‐II Crossover Tool/ WFX Gen‐II G2 Closing Sleeve) at OGDCL field in Pakistan.
	+ Led Investigation team into Gravel packing placement issues due to fluid compatibility issues and implemented successful solutions.
	+ Performed installation weatherford, Model completions which includes Ultra Pak, Arrow drill packer, OPTI packer ‐V0 (Zero gas bubble packers) , Black Cat HU packer, Black Cat TH packer, Black cat WFX packer, Ultra Pak U‐upper bore having PBR with anchor Latch assembly with completions jewelries includes expansion Joint, SSD’s, SSSV both tubing conveyed & wireline insert safety valves.
	+ Executed RBP and DLT combo jobs, Squeeze jobs with MST/ PCR and stinger, Running DLT/ unloader, HD, HDL and permanent and frac guard plugs.
	+ Prepare and submit accurate & thorough job reports on a timely basis, utilizing the relevant WPTS (Weatherford Performance Tracking System).
	+ Workshop assistance for the disassembly, assembly, inspection, and testing of equipment along with supporting documentation as required.
	+ Ensure Safety in the work site & workshop at all times by education and leadership of staff and visitors.
	+ 100 % radar card and trainings on system.
	+ Working on CPAR to investigate the root cause of tools failures.

**Company: Weatherford Services Ltd. PAKISTAN**

**Service Engineer- Completions June 2016 – Nov 2017**

**DUTIES & RESPONSIBILTIES:**

* + Work as a field engineer to perform below jobs in Pakistan:
	+ Performed installation of various sizes of weatherford model service tools which includes DLT Packers with VIII unloaded & storm valve, PCR (Squeeze jobs), and PBP with MST/HST and composite plugs (Fracguard).
	+ Performed installation of Hydraulic Packer which includes weatherford Model Hydrow‐1, WH‐6, Black cat TH (Cut to release packer) with below accessories Hydro trip sub, expandable sub, Opti set valve (flapper disc).
	+ Performed installation of Mechanical Packers. WFT Model (Arrow set Packers)
	+ Field Inspections of Completion Equipment and Perform installation with weatherford seal bore completions (Ultra pack packers with LSA and safety valve. Perform installation of weatherford Model Mono bore pacers (Ultra pack U with PBR and Anchor latch).
	+ TRSCSSSV installation and performed all type of surface test which includes (body test, Flapper integrity test, and flapper equalizing test)
	+ Slick line Tools (All Profiles of Prong and Melon Type with Uniset and Standard Flow Control System)
	+ Proficient operational knowledge of coil tubing, wireline perforating and intervention, workovers, snubbing, fishing, and stimulation operations.
	+ Know and understand well bore configuration, completion practices, applications, and operations of hydraulic fracturing, plug drill out operations, down hole tools (packers, plugs, retainers) cementing operations, perforating operations, fishing tools and their operations.

**Company: Weatherford Services Ltd. PAKISTAN**

**Junior Service Engineer July 2012 – May 2015**

**DUTIES & RESPONSIBILTIES:**

I began my employment with Weatherford in 2012 as a third-party contractor, and within a year, I transitioned to a permanent role within the company. I have done field jobs in TRS/JAM department and have run independent jobs of both tubing and casing joints on field side with Joint analyzed makeup – JAM software and work in Well completions department for redressing packers, service tool and assembly preparing and testing for completions jewelries in yard.

Fields jobs for running premium and non‐premium connection of tubing and casing with JAM pro software.

* + Calibration, Maintenance, Testing & Running Premium Connections with Computerized Torque Monitoring Systems. (JAM software). Calibration of Torque Gauges.
	+ Performed Bucking Jobs on Rig‐site & in Yard for Casing & Completion Assemblies. Running of Premium / Non‐Premium Connection (Vam Top, Tenaris blue, PH‐6, CS Hydril, JFE Lion, and JFEBear) with JM software. Assist with the Calibration of torque gauges and load cell.

**Experience of redressing Well completions / service tools which includes:**

* + Hydraulic Setting Tool (HST) / AH setting tool/ Mechanical Setting tool (MST) / WFXO setting tool.
	+ HD, HDL Packer, DLT Packer, Storm Valve, V111 Unloader. TSU bridge plug, Cement retainer‐ Plugs/ MST, Snap out seal assembly, Stradasnap packers. Packer retrieving tool.
	+ Hyrow‐01 Packer (Hydraulic Packer) / Arrow set Packer (Mechanical Packer).
	+ Hydrow‐11 AP packer (Dual completions packer)
	+ WFX Hydraulic setting tool (Gravel Pack). Complete Gravel pack Assembly preparation which Includes (WFX Setting tool, WFX Gen‐II Crossover Tool/ WFX Gen‐II G2 Closing Sleeve)

**Company: Precision Industrial - PAKISTAN**

**Project Manager May 2010 – Dec 2010**

**DUTIES & RESPONSIBILTIES:**

* + Contributed to mechanical and chemical anchoring of Powers fastener product at Precision Group.
	+ Assisted in organizing meetings with architects and engineering teams for technical approval.
	+ Supported in delivering presentations to clients, highlighting product performance and characteristics.
	+ Engaged in proactive communication to address client inquiries.
	+ Assisted in implementing quality control measures to uphold project standards and client satisfaction.
	+ Contributed to continuous improvement in project management processes and procedures.

# Weatherford Training Courses and Certificates

## SCN‐ Reservoir and Sand Control Solutions Operations

(Weatherford learning Centre Aberdeen UK) (20th Feb 2017 till 24th Feb 2017)

## Subsurface Safety Systems: Classroom Instructor Based Training, Level 1

(Weatherford learning Centre ‐Aberdeen UK) (27th Feb 2017 till 28th Feb 2017)

## Subsurface Safety Systems Operations & Lockout Tool, Instructor Based, Level 2

(Weatherford learning Centre ‐Aberdeen UK) (1st March‐2017)

## Introduction to Well bore calculation Level‐2

(Weatherford learning Centre ‐Abu‐Dhabi) (9th Aug 2016 till 11th Aug 2016)

##  CHC‐ Packers and Packer Service Tool One – Practical

(Weatherford Centre‐Virtual) (12th Feb 2024 till 16th Feb 2024)

## COMP‐ Introduction to the Product & Service Realization Process

(Weatherford Centre‐Virtual) (12th March 2019)

## Drilling Tools Technology – Thread Connections

(Weatherford Centre‐Virtual) (30th Nov 2020)

## Flow Control Overview

(Weatherford Centre‐Virtual) (27th Sep 2021‐ 29th Sep 2021)

## Exceptional Presenter

(Weatherford Centre‐Virtual) (16th Oct 2023)

## Introduction to Gas Lift Systems

(Weatherford Centre‐Virtual) (04th Nov 2020‐ 05th Nov 2020)

## LH‐ Liner Systems Operational Calculations

(Weatherford Centre‐Virtual) (15th May 2023‐ 19th May 2023

## OHC ‐Introduction to Unconventional Completions

(Weatherford Centre‐Virtual) (27th Nov 2020)

## ZoneSelect Equipment Overview

(Weatherford Centre‐Virtual) (27th Nov 2020)

# Safety Courses

## Right Start Mena

Weatherford Center (26th Feb 2013 till 1st March 2013)

## QHSE Basic NORM Awareness

Weatherford Centre (30th July 2023)

## Radiation Awareness

Weatherford Centre (28th Nov 2020)

## Right Start‐ Introduction to Operational Hazards and Risks

Weatherford Centre (26th Feb 2013)

## Fatigue Management

Weatherford Centre (22 Nov 2018)

## HSE‐ Hand & Finger Injury Prevention

Weatherford Centre (21 Oct 2015)

## HSE‐ Weatherford Global Defense Driving

Weatherford Centre (07 Nov 2013)

## Weatherford CAP Qualified Competency assessors CBT

Weatherford Centre (26 July 2023)

# Software Used in Completions design.

* + Well Cat (Tube move software)
	+ Torque and Drag
	+ Jam Pro (Optimum torque for tubing),
	+ Calculation of Gravel and Forces on WFX system
	+ Sieve Analysis

# Projects

## Weatherford Project

* + Developed universal general technical manual of Annular safety Valve system that can be utilize as standard by Weatherford team in different locations globally.
	+ Single access, updates of the tech unit and movement of completions procedures/tech unit into the PSRP and OEPS (Operational excellence and performance system)

## Final Year Engineering Project:

Design, Modeling and Analysis of a Shell and Tube Heat Exchanger.

# Education

## BE‐Mechanical Engineering (2006‐2010) (CGPA: 3.37)

The University of Azad Jammu and Kashmir Muzaffarabad (Azad Kashmir)

## F. SC (Pre‐Engineering) (2004‐2006)

Cadet College Palandri (Azad Kashmir)

## Matriculation (2002‐2004)

Cadet College Palandri (Azad Kashmir)

# Languages

* + English, Urdu, Arabic (Basics)