

40000383

DRILLING ENGINEER

Present xxx, Islamabad, Pakistan.

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INTRODUCTION

I am a **Well Engineer/Drilling Engineer with more than 12 years of Drilling Engineering and Operations experience** working with Pakistan Oilfields Limited (POL), DMV Pakistan Exploration GmbH, United Energy Pakistan Limited (UEPL) and Schlumberger KSA. I have worked on numerous challenging positions i.e. Well Site Drilling Engineer, Night Drilling Supervisor, Office-based Drilling Engineer, Senior Drilling Engineer, Drilling Team Lead and currently Senior Well Engineer with Schlumberger (Integrated Drilling Services) Lump Sum Turn Key (LSTK) project in Ghawar Oilfield with Saudi Aramco in Kingdom of Saudi Arabia.

EDUCATION

Bachelor of Engineering (B.E) in Petroleum and Gas (First Class Honours)

Sep 2003 to Aug 2007

University of Engineering & Technology, Lahore
(www.uet.edu.pk)

JOB RESPONSIBILITIES

Schlumberger

Schlumberger KSA (Integrated Drilling Services) December, 2018 to date
(www.slb.com)
Senior Well Engineer

Prepare Drilling programs for the oil wells in Ghawar Oilfield Saudi Aramco project in compliance to Schlumberger and Saudi Aramco standards.

- Manage well deliveries as per KPI's and Aramco's well integrity requirements.
- Plan Single-Lateral and Multi-Lateral horizontal wells with drilling challenges i.e. Total Losses, Stuck Pipe, Well Control, Anti-Collision and Geo Steering.
- Implementation of New Technologies in the project i.e. Casing While Drilling, DL Reamer, Gun Drill Reamer and Motor applications in Top sections.
- Conduct Profit and Loss (P&L) reviews at the end of well with Finance and Top management.
- Capture Operational incidents in Quest (Reporting Tool) and prepare investigation reports for client (Saudi Aramco).
- Prepare AAR's of the well and present amongst team to conclude the Lessons Learnt and prepare Remedial Work Plans (RWP).
- Actively participate to resolve client's queries related to Drilling Engineering and Operations for steady rig operations.
- Focus to reduce NPT's of the wells by continuously improving well planning (DWOPs)
- Present performance initiatives in Well Performance reviews amongst Drilling Optimization team.
- Prepare Job tickets and cover any Out of Scope operations and related Day Work Rate.
- Conduct Service Quality incidents reviews with the Schlumberger Product Lines involved in the LSTK project.
- Manage timely orders for the services and materials required for the ongoing and future wells.
- Coordinate with Drilling Operations team in office and rig site

DMV
OMV

OMV Pakistan Exploration GmbH March, 2013 to December, 2018
(www.movenmore.com)
Senior Drilling Engineer / Drilling Team Lead

- Supervise well engineering team to provide full engineering support to all drilling and workover operations.
- Ensure implementation of Company's HSSE standards and procedures in daily drilling operations and planning phase of all projects.
- Develop initiatives to track HSSE performance and improvements based on predefined KPI's.
- Active coordination in the preparation of Bridging Documents with Rig contractor and agreed Well Control procedures, H2S and Fire Emergency plans, ERP's etc.
- Ensure coherence throughout all technical tendering procedures.
- Review drilling programs and ensure full technical integrity of all drilling and workover projects.
- Providing front end well engineering design support to the development project(s).
- Actively promote continuous performance improvement. Monitors performance by reviewing Key Performance Indicators.
- Ensuring Change Management procedures are implemented fully where required.
- Ensuring deviations from standards and / or technical policy are adequately risk assessed and properly approved.
- Supporting operational personnel on all technical aspects of drilling program.
- Notifying and discussing with Drilling Manager any deviation from drilling program.

- Liaise and coordinate with service companies for detailed engineering work.
- Actively conduct training for local drilling staff, and their development.
- Advise in daily drilling operations. Assist and deputize for Drilling Superintendent.
- Prepares deterministic and stochastic AFE cost estimates. Prepares budget and MTP figures. Liaise with Finance and Procurement.
- Represents Drilling in meetings with OMV Headquarter and JV TCM/OCM.
- Conduct MWA and WEMS Audits. Supports in Rig Inspection Audits and maintains Action Track Register.
- Coordinate with company man and material man for daily logistics. Manages Drilling Inventory
- Implements new Drilling technology.

Drilling Engineer (Office Based)

- Responsible to plan and deliver wells in compliance with OMV Well Engineering Process and Technical Policy.
- Responsible to deliver wells in legitimate time and cost frame.
- Planned and delivered vertical and deviated wells with four casing string design as well as three casing string design.
- Prepare directional plans and casing design using Compass and Stress Check modules on Landmark EDM.
- Successfully implemented three casing string design over four casing string design in Miano-19 development well, thus saved approximate cost of 600k \$.
- Actively participated in planning and execution of horizontal wells Sawan North Horizontal-1 and Miano TG-16H.
- Provide technical input during tendering procedures for major drilling and workover services.
- Investigate unsatisfactory drilling performance to determine root causes and generate preventive actions.
- Keep updated cost tracking of the wells for processing of the invoices within actual estimated cost during drilling.
- Material ordering and preparation of equipment checklist during planning phase of well.
- Monitoring Daily Drilling Operations, Effective Coordination with well site crew & service companies and providing operational and engineering support.
- Preparing Final well report and performing quality check on all assigned documents and reports.
- Preparing Wells AFEs/budget and developing cost estimates using stochastic/probabilistic approach on Well Cost module of Landmark EDM.
- Procurement of LLI's to ensure timely deliveries.
- Providing necessary technical support during JVP's/3rd Party audit for drilling operations.
- Focus on Drilling KPI's and HSSE KPI's as well and keep track record.

Night Drilling Supervisor

- Responsible for all type of rig operations at night.
- Prepare Daily Drilling Report on IDS reporting software.
- Update Days vs. Depth graph on daily basis.
- Prepare DSR report including DCR, Mud Report, and Materials in/out report, OMV materials report, QHSE & Scomi reports etc.
- Coordinate with all sectional heads on rig in daily operations.
- Attend fire drills, H₂S drills and safety trainings conducted on rig site.
- Chair Meeting of sectional heads and discuss ongoing operations and plans ahead.
- Assist Sr. Drilling Supervisor in planning and execution of drilling operations according to the Drilling prognosis.

Pakistan Oilfields Limited



May, 2008 to March, 2013

(www.pakoil.com.pk)

Night Drilling Supervisor/Drilling Engineer

- Assist Day Drilling Supervisor in implementing and supervising the drilling program in the best interests of time, cost, safety and quality.
- Drafting of Standard Operating Procedures, Equipment Failure Reports, Incident Reports and preparation of Job Orders on daily basis for all the activities like Casing Running and Cementing, Wire line Logging, Fishing, Coring, Tubing Running, Well Head Installations, Liner Hangers, Packers, Drilling Procedures, Equipment Inspection, BOP Pressure Testing.
- Material Ordering and Co-ordination with Stores and Town for timely receiving of materials.
- Co-ordinate with Wire line Engineers in execution of Open hole and Cased hole Logging.
- Responsible for the right selection of bit to be run from available stock and interpretation of dull characteristics of used Roller cone and PDC bits.
- Drill with Bit in Hole in a cost-effective manner by applying Bit Optimization techniques and conduct Drill off tests on bit.
- Participate in various Fishing operations using different fishing tools like Over shots, Impression Blocks, Spear Releasing Tools, Taper taps, Screw-in operations, Internal Slick line catcher, Skirted Sub, Fishing Magnets, Junk subs, Jarring, milling operations using different kinds of mills (Flat bottom mills, Bladed junk mills, Taper mills, Water melon mills etc.)
- Execution and co-ordination in Coiled tubing operations
- Actively participate and finding way outs in mechanically and differentially stuck situations.
- Monitor Lost Circulations and co-ordinate with Mud Engineer to cure losses.
- Responsible for Well Killing operations using correct method of Well Control.

- Review offset wells data for potential drilling problems such as kicks, lost circulation, stuck string, deviation control and slow drilling rates.
- Support in the investigation of any incidents occurring on rig and ensure that the underlying causes are identified and followed-up to avoid reoccurrence.
- Compile comprehensive and consisted End of Well Reports.

Trainee Drilling Engineer/Drilling Engineer

- Prepare daily drilling report, morning meeting report, weekly operations report
- Update Bit Records, Time Break Down, Repair hours and Ton mile register.
- Prepare Casing tallies, Drill pipe and tubing tallies, Trip sheets, Kill sheets.
- Assist Drilling Supervisor in drilling calculations like free point in case of stuck string, bit hydraulics, hole volumes, Margin of over pull (MOP) and Cement calculations etc.
- Keep updated record of Chemicals, Tubular and Drilling tools on rig site.
- Participate in all operations on rig like Drilling, Fishing, Casing and Cementation, Lost Circulation and Well Killing, Stuck String, Wire line Logging, Coiled tubing, Slick line, Inspection of tubular, Maintenance work on Accumulator unit and draw works, Side tracking hole with whipstock and kick off cement plugs.
- Planning of Rig Move including Loads, Cranes and Heavy Vehicle requirements.


WORK EXPERIENCE

- Working experience with OMV Pakistan Exploration GmbH as Drilling Engineer and Night Drilling Supervisor on development and exploration wells.
- Worked with Pakistan Oilfields Limited on several vertical as well as directional wells including HTHP Drilling and Work over wells and H₂S bearing wells.
- Supervision experience on Contractor's Rig (Weatherford, WDI-3) and Company's own Rig (POL SCR RIG-I) as Night Drilling Supervisor/Drilling Engineer.
- Supervision experience of operations on Contractor's Rig (Schlumberger, SLR Rig-215 & Rig-225) as Night Drilling Supervisor.
- Following is the list of Drilling and Work over wells which demonstrate working experience in details:


DRILLING WELLS

Latif-15 


- A development well drilled successfully within planned cost and time.

Mehar-3 ST - Horizontal 


- A development well being drilled to produce undrained hydrocarbons of Mehar D&PL.
- The wellbore has to cross Main Bounding Fault, Hole instability related to Ranikot Shale's (Breakout MW 15.5ppg & 9.0ppg PP SML & Dungan formations exposed together)
- A 500m horizontal drain to be drilled in Abrasive PAB-Sands.

Miano-21 

- A development well drilled successfully within planned AFE.

Miano-20 


- A development well drilled successfully within planned AFE.

Miano-19 


- A development well drilled with successful implementation of three casing string design.
- Dry hole completed within planned time and cost.
- Well tested at a flow rate of 56 MMscf and completed successfully.

Kohar-1 


- Exploratory well drilled to explore the hydrocarbon contents of Lower Goru A-Interval sands in Mubarak Block EL. Well reached TD of 3385m as per plan in 30 days. Challenging abrasive and hard A-interval sands drilled with optimized one bit compared to 4-5 bits on previous wells.
- Utilized Casing Over Drive system for reaming with casing.

Jiskani-1 

- Exploratory well drilled to explore the hydrocarbon contents of Lower Goru A-Interval sands in South West Miano-II Block. Well reached TD of 3756m in 37days before planned 44 days.
- Completed well conducting two cased hole DSTs in 64days.

Rehan-2 

- Exploratory well drilled to check the potential of Interval-B sands in Rahmat Block. Drilled with a high ROP of Avg. 30-40 m/h.

Sofiya-2 

- Exploratory well drilled to find new pay zone. Very slow drilling at Low ROP due to hard formation (Chert).
- Faced hole collapse problems due to fractured/stressed shales.

Minwal-2

- Drilled one vertical and two directional holes.
- Recovered stuck strings due to key-seating and complex well trajectory.

Domial-1

- HTHP deep exploratory well with 11% H₂S bearing zone.
- One vertical and one directional hole drilled.
- Worked on differentially stuck string.
- Side track hole by using Whip stock.
- Performed well killing operations in string washout and H₂S environment.

Pindori-8

- Deep well drilled in already developed field to get new pay zones.
- One vertical and one directional hole drilled due to string stuck mechanically.

Dhullian Deep-1

- Deep well drilled in already developed field to get new pay zones.

WORK OVER WELLS

Misri Bhambro-1 WD

- To retrieve completion with parted Side pocket mandrel and intervention constraints.

Meyal-6

- To retrieve old dual completion and clean wellbore and complete the well with new completion string.

Pindori-3

- To retrieve stuck tubing and minimize the water to enhance oil production.

Domial-1

- To complete the well with new H₂S trim completion string.

Bela-1

- To retrieve old completion and perforate new formations to check the potential 6% H₂S.

Dhullian Deep-1

- To isolate lower perforations by placing cement plug with Coiled tubing and perforate upper zone with TCP guns.

Pariwali-7

- Retrieve stuck tubing and re perforate the pay zone with TCP guns.

PROFESSIONAL COURSES/SKILLS

- Participated in Schlumberger's "NEST" New Employee's Safety Training conducted in Dhahran, KSA.
- Successfully passed Schlumberger's "Stuck Pipe Prevention Level-II" Training held at Middle East Learning Centre (MLC) in Abu Dhabi.
- Successfully passed Schlumberger's "Well Control Level-II" Training held at Middle East Learning Centre (MLC) in Abu Dhabi.
- Participated in Schlumberger's "Liner Hanger Refresher Training" held in Al Khobar, KSA.
- Valid IADC Well Sharp certification for Well Control as per Saudi Aramco's requirement.
- Distinctly passed Rig Inspection Workshop (RIW) conducted by Lloyd's Register – MODU Spec. in Abu Dhabi.
- Course on Directional, Horizontal and Multilateral Drilling-simulator assisted with Petro Edge Asia organized in Kuala Lumpur, Malaysia.
- Course on Advanced Well Integrity Management with Petro Edge Asia organized in Kuala Lumpur, Malaysia.
- Advanced training on Landmark's EDM Software (Stress Check, Compass, Well Cost, Profile, Well plan) and extensive working experience.
- H₂S Safety training course conducted by Rutledge H₂S Safety Services.

COMPUTER SKILLS

- Micro Soft Office (Word, Excel, Power point)
- SAP

REFERENCES

Available on demand
