

MOHAMED IDRIS

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Operation / Project Manager, Senior Drilling Engineer

Multi-certified Drilling Engineering and Directional Drilling professional with over 19 Years of experience in a variety of drilling environments and disciplines. Experience includes Operations Management, Project Management, Measurement / Logging While Drilling, HPHT, Directional Drilling, and Drilling Engineering in Land, offshore, and Deepwater environments.

Key Area of Competency

- Project planning & management
- Design, procedures implementation & guidelines
- Commercial proposals & Tender strategies
- Profit forecasting & analysis
- Leadership, training & Development
- Well design & engineering processes
- Technical & HSE Audits
- Data quality control, processing & delivery

Languages

Fluent in both *English* and *Arabic*

Education

Bachelor of Science with Honor in Mechanical Engineering

University of Khartoum (Sudan)

Professional Experience

ITQAAN SOLUTIONS LTD

Feb, 2016 to date

Operations Manager

Established an oil field service company in accordance with international standards to deliver the highest service quality. Our main objective is to exceed our customers' expectations.

In addition to my role as operations manager, I am in charge of the drilling engineering department where we managed in less than 2 years to turn ITQAAN to be the leading directional drilling company in SUDAN market.

Our main customers:

- 2B OPERATING COMPANY (2B OPCO)
- RAWAT OPERATING COMPANY (RPOC)
- SHARIF OPERATING COMPANY (SHIPOC)
- Also as part of our responsibilities toward the development of the new generation in Sudan we have held several training courses related to directional drilling services ranging from basic to advance levels.

Lead Senior Drilling Engineer –ExxonMobil, Lukoil, OMV Petrom & TOTAL Bulgaria

Based in client offices in Bucharest - Romania, I am responsible for all the project-related engineering work for the (Deep water & Shallow drilling campaigns in black Sea). This included job planning, drilling phase support, and post job evaluations.

**ExxonMobil (Deep Water _ Black Sea Romania):
Integrated Drilling Services (IDS) Project:**

Included deep vertical & directional wells and some ST complexity level wells. In this challenging project there were constant difficulties with drilling such as:

- Differential sticking due to high over balance environment
- Shallow gas risk
- S&V, S&S issues while hole enlargement
- Losses while drilling

We managed to deliver step improvements well-on-well to the drilling practices and the total well delivery time. This was achieved using a series of optimizations including, BHA planning as well as drilling and tripping practices by integrating solid failure analysis from previous experiences and feeding back to the planning stage.

**Lukoil project (Deep Water _ Black Sea Romania):
Integrated Drilling Services (IDS) Project:**

Different challenges from Exxon project, increasing ROP and improve drilling efficiency to reduce overall cost were the main objectives from Lukoil operations team, though in reality we have faced harder challenges such as:

- Well control issues due to gas kicks
- Contingency Casing designs (under-reaming BHA's)
- Losses while drilling

We have worked with Lukoil drilling team (onshore & offshore) to optimize:

- BHA design
- Bit selections
- casing design

Successfully managed to introduce 17.5x22in section to set up 18in liner, we have done a lot of casing/liner simulations to make sure it can be run to TD. Optimized racking plans to reduce BHA make up & lay down process. Hydraulic optimization to improve hole cleaning while drilling with high ROP, and logistic challenges in terms of planning for equipment and personnel.

OMV Petrom (Onshore Romania)

Operations were totally different comparing to ExxonMobil- Lukoil Deep water projects as mainly I was responsible of their land operations where the main challenges were:

- High Anti-collision risk (congested fields with poor survey data)
- Rig sizes analysis for proper BHA & hydraulic calculations
- Salt drilling (high stuck pipe risk)

We managed to improve the operation a lot by working together with OMV Petrom team, having frequent visits to discuss & explain the risks associated with their fields.

TOTAL Project (Deep Water _ Black Sea Bulgaria):

Integrated Drilling Services (IDS) Project:

Designed the first Deep Water Well drilled in Bulgaria by TOTAL, start the project with the management, prepare all technical tendering document related to the drilling parts which required high focusing & collaboration with the other segments due to:

- Hole stability issues
- Hole cleaning issues & high stuck pipe risks
- Contingency casing designs

SCHLUMBERGER, DRILLING & MEASUREMENTS – NORWAY

June, 2012 to Sept 2014

Senior Lead Drilling Engineer/In-House project manager – Statoil ASA

Deep Water Project _ (Norwegian Sea & North Sea operations):

Based in the Statoil office in Svaneholmen - Norway, I was responsible for all the project-related engineering work in the Exploration asset. This included job planning, drilling phase support, and post job evaluations.

In addition to my role, I was also leading a team of 2 DE's who were in charge of 2 semi-subs, my roles included but not limited to:

- QC & review their QHARC for each exploration Well.
- QC & review their technical work before submission to STATOIL drilling engineers.
- Lead the QHARC meetings with SLB-Drilling Engineering Center for all the Wells related to STATOIL exploration.
- Review & approve all exemptions / MOC's related to STATOIL exploration.

The exploration project was full of challenges, increasing ROP while mitigating for Stick & Slip and shocks to improve drilling efficiency and reduce overall cost. These were the main objectives from STATOIL exploration team.

I was in-charge of Songa Trym Semi-sub where I have worked with the drilling superintendent, STATOIL drilling engineers and Songa team to optimize BHA design, bit selections, racking plans and hydraulic optimization for better hole cleaning while drilling with ROP over 100 m/hr. Logistic challenges in terms of planning for equipment and personnel.

We managed to turn Songa Trym to be the fastest drilling Rig in STATOIL in the North Sea, Songa won STATOIL rig of the month July/August & September 2013.

- Job planning responsibilities:
 - Input into concept selection for Statoil
 - Well Planning and design optimization
 - BHA Design and Bit selection
 - Anti-collision, Hydraulics, Torque & Drag, and Vibrations modeling
 - Performing Hazard Analysis and Job Risk Assessments
 - Relief Well planning
 - Tool and personnel planning

- Drilling phase support:
 - Inputs into Drilling Operational Procedures (DOP) per every section
 - Directional Drilling coordination including logistics and operations follow-up
 - Trajectory & Anti-collision monitoring
 - Survey Quality Control and database management
 - Drilling optimization support and identifying improvement opportunities
- Post-job evaluation:
 - Creating and tracking KPI's
 - Drilling Mechanics analysis and improvement recommendations
 - Failure investigations and root cause analysis
 - Post-run modeling and evaluation
 - Survey Database management in both COMPASS and D.O.X for all the Statoil Assets operated on by Schlumberger
 - Auditing the different Schlumberger projects within Scandinavia against the Schlumberger Well Surveying & Anti-collision Standard
 - Supervising less experienced Drilling Engineers while carrying out audits
 - Recording lessons learnt and identifying future improvements
 - Intervention Relief Well planning

SCHLUMBERGER, DRILLING & MEASUREMENTS- SUDAN

Apr, 2009 to May, 2012

Lead Senior Drilling Engineer

Lead DEC team to support all clients. Supervise a team of 3 drilling engineers and 2 drilling technician supporting 18 land rig operations with different profile from vertical with ROP optimization challenges up to Horizontal and well placement operations. Supervise DE's for day-to-day operations. Technical projects such as:

- Steam assisted gravity drainage (SAGD) project for Petronas (WNPOC)
 - Cluster drilling campaign for CNPC (Petro-energy)
 - Red sea Deep water project (HPHT) for (Petronas Carigali & CNPC)
 - Remote operation challenges for all clients
- Job planning responsibilities:
 - Well Planning
 - BHA Design
 - Anti-collision, Hydraulics, and Torque & Drag modeling
 - Vibrations and BHA tendency simulations
 - Job Risk Assessments
 - Drilling phase support:
 - Trajectory & Anticollision monitoring
 - Survey Quality Control (DMAG)
 - Drilling optimization support
 - Re-planning work
 - Post-job evaluation:
 - Actual vs. Planned results comparisons
 - Creating and tracking KPI's
 - Drilling Mechanics analysis and improvement recommendations

- Failure investigations and root cause analysis
- Post-run Torque and Drag calibrations
- Survey Database management
- Maintaining a Lessons Learnt database

SCHLUMBERGER, DRILLING & MEASUREMENTS – SUDAN

Mar 2007 to Mar 2009

Drilling Engineer

- Successfully designed & drilled several wells in EEG. Well profiles included: 3-D Horizontals, 2-D Horizontals, and Deviated wells.
- Coaching junior DE's and reviews their day to day activities to make sure the implementation of the correct policies and standard
- Helped with the implementation of the FastDownlink operating software for the PowerDrive X5 and the training of the Directional Drillers on its use.

SCHLUMBERGER, DRILLING & MEASUREMENTS – EAST MEDERIANIAN

2005 to 2007

Directional Drilling Engineer

- Successfully Drilled several wells in Petronas, CNPC & ONGC High profile projects. Well types included: 3-D Multi-lateral Horizontal wells, 3-D Re-Entry wells, and 2-D Re-Entry wells.
- Lead the team in several Performance Drilling jobs for Petronas & ONGC.
- Worked as a replacement Drilling Engineer in the Realtime Operations Center. Involved in well planning and realtime support for drilling operations.

SCHLUMBERGER, DRILLING & MEASUREMENTS – EAST MEDERIANIAN

2003 to 2005

Logging While Drilling Engineer

- Provided LWD/MWD services to various clients in EEG (Egypt, Jordan, Sudan). Services included MWD, Resistivity, Gamma Ray, Annular Pressure, Density & Porosity, and Sonic while drilling measurements.

SCHLUMBERGER, DRILLING & MEASUREMENTS – EAST MEDERIANIAN

2001 to 2003

Maintenance Engineer

Job responsibilities include:

- Trouble shoot, repair failed equipment and prepare failure Reports.
- Tools status time sheet and spare parts orders
- Coaching juniors technicians, until they breakout.
- Special project as EEG (Egypt, Sudan & Jordan) silicate specialist to modify M/LWD tools to be compatible with this mud system& to update SLB research centers with field-tests data for further development.

Certifications and training

Completed all of the following training seminars:

- Schlumberger technical training:
 - Advanced Stuck pipe prevention Seminar 2015 - Romania
 - K&M Extended Reach Drilling seminar 2013 – UK
 - Advanced drill string design seminar 2011 – France
 - Advanced drilling & completion fluid 2011 – France
 - Advanced survey seminar 2010 - France
 - Preventive well control seminar 2010 – France
 - Stuck pipe prevention seminar 2010 - France
 - Advanced drilling engineering course 2009 - France
 - PowerDrive RSS Seminar 2007 – UK

- Basic cementing course 2007 - UK
- Drilling engineering course 2007 – UK
- Directional Drilling Seminar 2006 - UK
- Engineer MWD/LWD course 2006 – UK
- Maintenance Level 1, 2&3 course 2003 - UK
- Non-technical training:
 - OFS-2 Seminar (Basic finance & problem solving)
 - Lean for managers seminar
 - OFS-3 Seminar (People Management)
 - QHSE-2 (Advanced Quality Health Safety & Environment)
 - SAP (Basic level)

Skills

- Software:
 - EDM LANDMARK – COMPASS
 - EDM LANDMARK – WELLPLAN
 - EDM LANDMARK – STRESS CHECK
 - Drilling Office X (DOX)
 - Drilling Office 4.0 (D.O.4)
 - BHAtv – Transient vibrations modeling
 - PERFORM Toolkit – Drilling Optimization and Monitoring
 - DMAG – Magnetic survey correction
 - SUCCOP – Magnetic survey correction
 - Survey Toolbox – Geomagnetic calculations and magnetic interference prediction
 - HSPM – Surface Acquisition, signal processing, and tool programming
- Directional Drilling tools:
 - Motors
 - PowerDrive X5* Rotary Steerable System (RSS)
 - PowerDrive Xceed* Rotary Steerable System (RSS)
 - PowerV* Vertical Drilling RSS
 - PowerDrive vorteX* (Motor + RSS)
 - PowerDrive Archer (High DLS)
- Well Design Experience
- BHA Design Experience
- Drill String Design Experience
- Torque & Drag / Hydraulics and Hole cleaning analysis
- Directional Drilling Experience
- Deepwater Drilling Experience
- Casing Design Experience
- Drilling Fluids Experience
- MWD/LWD Experience

Professional Achievements

- Achieved **SENIOR** Drilling Engineer Status within the Schlumberger **Eureka** Technical Community
Granted upon an extensive review by Schlumberger drilling experts (Principal level) of my expertise and contribution to the Schlumberger Eureka Technical Community (SETC). The review included evaluating my Technical Understanding, Solutions Experience, Input to Business Strategy, Mentoring and Community Leadership, and Professional Visibility.
- Completed the Schlumberger General Field Engineer control process
GFE Project: Launching cluster drilling in EEG
- Drilled the fastest well in STATOIL Exploration- Norway
Drilled the well Svale Nord which was the fastest performance drilling job for STATOIL in Norway from spud to TD
- Received several client acknowledgments and recommendations while working for GNPOC (Petronas, CNPC & ONGC), Statoil ASA team & from Lukoil Bucharest team.
- Received 3 appreciation letters from 2B OPCO management team for 2 Years operations with Zero Non Productive Time (NPT).