

CHIRAZ ATHIMNI

Petroleum Engineer

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Current Residence: Dubai, United Arab Emirates

CAREER SUMMARY & OBJECTIVE

Highly motivated Petroleum Engineer with 5 years of extensive experience in reservoir engineering, performance analysis, reserves evaluation, reservoir characterization and modeling for both conventional and unconventional reservoirs, including clastic and carbonate systems.

In addition, I have hands-on experience in Drilling Engineering, Field operations, Data Acquisition, Well Testing and Workover operations and HSSE.

Proficient in numerous industry-standard software including PETREL (Seismic to simulation), OFM, Saphir well test analysis package, PETEX Suite (MBAL, PVTP).

Actively contributed to large-scale projects involving Field Development Planning, Reserves Evaluation (Technical Due Diligence Studies), and integrated reservoir characterization studies delivering high- quality services and valuable solutions to several oil & gas operators in Africa. Strong ability to collaborate within multidisciplinary teams and work across the full reservoir lifecycle.

Holder of a Bachelor's Degree in Hydraulic Engineering from Tunis Carthage University and a Master's Degree in Petroleum Geology (Basin Analysis and Reservoir Characterization) from the Faculty of Sciences Tunis. Fluent in English, French, and Arabic, both written and spoken.

KEY COMPETENCES

- Experienced in reservoir simulation, production forecasting and Well Performance Analysis;
- Experienced in reservoir surveillance and monitoring, including data acquisition and analysis;
- Comprehensive knowledge of Reservoir Performance Analysis and Optimization;
- Background in managing heavy oil and gas condensate reservoirs.
- Well-versed in Drilling Engineering and operations.
- Background in artificial lift systems;
- Comprehensive understanding of the operating standards, work procedures of oilfield industry as well as HSSE;
- In-depth knowledge of hydraulic fracturing (conventional & unconventional).
- Proficient in using industry-standard software such as Eclipse 100, Petrel, MBAL, PVTP, ArcGis, Saphir.
- Experienced in managing large-scale projects.
- Dynamic, motivated and self-starter with a strong desire to develop new skills.

QUALIFICATIONS/CERTIFICATIONS

- Reservoir Engineering and Simulation, by GOGEO Engineering.
- Reservoir management, by GOGEO Engineering.
- Oil Recovery Enhancement Techniques, by GOGEO Engineering.
- Advanced Well test Analysis, by GOGEO Engineering.
- Production Logging Test Interpretation "Saphir", by GOGEO Engineering.
- Advanced Reservoir Simulations, by GOGEO Engineering.
- Hydraulic Fracturing (Unconventional, Conventional), by GOGEO Engineering
- Geomechanics for Hydraulic Fracturing (Unconventional Reservoir), by GOGEO Engineering

PROFESSIONAL EXPERIENCE

Reservoir Engineer

Oct 2023 – Feb 2025

TOPIC, Tunisia (Halk El Menzel offshore field)

Reservoir Modeling and Characterization:

- Conducted a comprehensive review and quality check (QC) of reservoir modeling and engineering studies previously conducted on the Halk El Menzel offshore field
- Collaborated with the (G&G) team to re-define a depositional environment model for the Ain Ghrab – Ketetna carbonate reservoir and improved well correlation;
- Developed a facies model based on core, well logs, and seismic data;
- Identified and classified rock types based on integrated petrophysical analysis, core data, and special core analysis (SCAL) for improved reservoir characterization;
- Built a 3D geological model in Petrel (structural, facies, rock type, porosity, permeability, water saturation, and net-to-gross models), guided by geostatistical methods and integrating all available data (Seismic, Well logs, core, SCAL...);
- Calculated STOIP using static models and cross-check with dynamic model;
- Performed dynamic reservoir simulation (history matching and production forecasting), to evaluate the recovery performance of the thin heavy oil rim carbonate reservoir (Ain Ghrab - Ketetna);
- Release new well locations, contributing to strategic decision making;

Field operations and Reservoir Evaluation Planning:

- Assisted in monitoring daily production operations on-site and analyzing production data trends.
- Participated in the planning of the tools required for the future drilling operations (PLT, RST)
- Coordinated technical meetings with service companies to define logging and reservoir evaluation objectives.
- Conducted technical and commercial evaluation of the offer vendors for reservoir evaluation services

Reservoir Engineer

Jan 2020 – Sep 2023

GOGEO Engineering, Tunisia

Working as a Junior Reservoir Engineer and member of a multi-disciplinary team (Engineering Team) for GO GEOENGINEERING, providing technical support and managing large-scale projects:

- Supported senior engineers in Conducting reservoir engineering analysis including reservoir simulation, pressure transient analysis, decline curve analysis and material balance;
- Participated in Managing oil and gas condensate producing reservoirs and reservoir surveillance;
- Worked on data of well test, production, completion, logs, SCAL and PVT;
- Contributed to the Analysis and monitoring oil and gas field performance (using OFM, Eclipse...);
- Prepared production forecasts and providing production optimization support;
- Participated in **technical due diligence** and **Red Flag Reviews** for asset acquisition and portfolio evaluation.
- Supported software sales by delivering technical demonstrations and product training on FracPredictor software (developed by GoGeo Engineering team). The software solves GeoEngineering problems related to shale and tight reservoirs including sweet spot identification, landing zone, adaptive frac modeling, well space and completion design;
- Provided post-demo client support including follow-up and ongoing technical assistance to ensure successful product adoption;
- Conducted functionality testing for the GeoScan application (developed by GoGeo Engineering team) and collaborated closely with software developers to report issues and support ongoing improvements.

Achieved Projects:

Field Development Plan: Muglad Basin (Onshore of Sudan, Gas bearing siliciclastic reservoirs)

Successfully contributed to the evaluation and certification of over 500 BCF of gas reserves, resulting in third-party certification by **DeGolyer & MacNaughton** and a comprehensive development strategy for multiple fields (2 blocks with 6 large fields). Overcame challenges related to complex reservoir units (faulted structures, thin & multilayered reservoirs) and data quality issues by collaborating across multidisciplinary teams.

Project : Evaluation of Oil & Gas Fields : (Offshore /Onshore fields, Carbonate/Siliciclastic Reservoirs)

Contributed to the technical due diligence (Red Flag Review) of 9 Tunisian assets, including both sandstone and carbonate reservoirs. Evaluated production profiles for 5 oil and gas reservoirs, updated hydrocarbon in place, and reviewed developed and undeveloped reserves. Collaborated with the client's team to optimize development plans, including infill wells and sidetracks, while ensuring reserves booking and updating economic parameters (CAPEX, OPEX, ABEX).

Trainee Reservoir Engineer (under Project Graduation PFE)

June 2019 – Nov 2019

[Amilcar Petroleum Operations \(SHELL Tunisia JV\)](#)

Project: Integration of 3D Reservoir Modeling with History Matching and Forecasting on the HASDRUBAL Field (Gulf of Gabes – Offshore Tunisia)

- Performed 3D geological model (structural and property models) from well, seismic, core and SCAL data.
- Building and running reservoir simulation model based on 3D static model using Petrel & ECLIPSE 100 software
- Performed manual history matching and production prediction.

Trainee Reservoir Geologist

Aug 2018

[Tunisian Company of Petroleum Activities \(ETAP\)](#)

Project: Petrophysical Evaluation of a Carbonate Reservoir in Eastern Tunisia using Interactive Petrophysics (IP v3.5) Software.

As a Trainee Reservoir Geologist, I worked on the interpretations of well logs and the calculation of the petrophysical properties of the reservoir (Porosity, Water Saturation, Shale Volume).

Trainee Drilling Engineer

Dec 2017 – Feb 2018

[PRIMOIL](#)

Project: SCV-1 Sidetrack (Re-entry), Kef Exploration Block

As a Trainee Drilling Engineer, I assisted on day-to-day re-entry intervention (sidetrack job) and well test operations on SVC-1 exploration well in Kef permit. The sidetrack was performed and tested using Challenger Rig #37 (2500 hp rig).

Trainee Drilling Engineer**Sept 2017 – Nov 2017****Tunisian Drilling Company (CTF)**

- Assigned to work both in the office and in the field.
- Attended the HSE site induction program of the CTF and acquired knowledge of specific/hazardous activities.
- Assisted on day-to-day workover operations in Jerjis Onshore field. (Workovers using CTF Rig 03)
- Gained knowledge of internal and external HSE Audits and the international health, safety and environment standards (ISO 9001 V 2008, OHSAS 18001 V 2007 and ISO 14001 V 2008).
- Took part in accident analysis and incidents on site.

Trainee Drilling Engineer (under Project Graduation PFE)**Feb 2017 – June 2017****Tunisian Company of Petroleum Activities (ETAP)****Project: Oil Well Design: A case Study for a Vertical Well in Southern Tunisia**

- Developed a comprehensive drilling program (Well geometry, geological study, casing design, mud program, drill string and bottom hole assembly (BHA) design, bit selection, drilling hydraulics calculations);

Trainee Drilling Engineer**July 2016 – Aug 2016****Tunisian Company of Petroleum Activities (ETAP)****Project: Casing Design**

As a trainee drilling engineer, I prepared a detailed casing program and drilling hydraulics calculations program for a vertical well in the south of Tunisia;

EDUCATION & UNIVERSITY STUDIES**❖ Master's Degree in Basin Analysis and Reservoir Characterization: 2017-2019**

Faculty of Sciences of Tunis, El Manar University, Tunis, Tunisia

❖ Bachelor's Degree in Hydraulic Engineering: 2014 - 2017

Tunis Carthage University, INAT Engineering School, Tunis, Tunisia

❖ University Under-graduate Degree: 2012 – 2014

Higher Institute of Medical Technologies of Tunis, University of Tunis El Manar.

❖ Baccalaureate Diploma (Sciences Experimentales): June 2012**COMPUTING SKILLS**

- MS Office Suite: Excel - Word – PowerPoint....
- PETEX Suite (MBAL, PVTP)
- Petrel (Seismic to Simulation)
- Eclipse 100 Black Oil Simulator
- Oil Field Manager (OFM)
- Saphir Well Test Analysis Package
- Emeraude Production logging interpretation PLT package
- Interactive Petrophysics (IP v3.5)
- Extensive Internet use.

LANGUAGE SKILLS

- English, French: written, spoken fluently.
- Arabic: mother tongue