



# Hamid Mammeri

RESERVOIR ENGINEERING ADVISOR

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## ABOUT

*29 years' experience in the Oil & Gas industry.*

*Reservoir Engineer Advisor, expert in production & development*

Extensive experience in the production and development of oil reservoirs, capitalize on a deep exposure to different types of oil fields in Africa and the Middle East. graduated in RESEVOIR ENGINEERING in 1982 from **Louisiana university**

Lafayette, USA

## FORMATION

*Petroleum Engineer degree*

University of Louisiana – Lafayette, USA, Louisiana

USA  
1982



## TECH SKILLS

30 years' experience exposed to a myriad of hydrocarbon reservoirs, from dry and condensate Gas green and brown fields with different drive mechanisms and a wide challenging formation and environments.

Experienced with Enhanced Oil Recovery technics, Waterflooding, Miscible gas-flooding, Gas-Oil-Gravity-Drainage (GOGD) and WAG

## SOFT SKILLS

Great experience in teamwork, problems solving techniques, communication and interpersonal skills

## TECHNOLOGY

VIP, CMG (IMEX), tNav, Eclipse parallel, Petrel RE, MBAL, Prosper, Saphir, OFM, DCA, Emeraude, Winglue and PEEP

## EXPERIENCE

*Reservoir Engineer Consultant/2018*

Working as a consultant Senior Reservoir Engineer and member of a multi-disciplinary teams, providing technical assistance and FDPs to some NOCs in Central Africa

*Consultant Sr. Reservoir Engineer, SGS/ 2014-2017*

Worked as a consultant senior Reservoir Engineer and member of a multi-disciplinary team (Engineering Team) for Sonatrach (previously SonaHess), providing technical support for many Sandstone formation oilfields under Waterflood and Gas-Miscible flooding processes.

*Senior Reservoir Engineer, OXY (Oman)/ 2012-2014*

Senior RE managing the **Wadi Latham** and **Safah** Carbonate reservoirs, both under Waterflood process.

*Senior Reservoir Engineer, PDO / Shell (Oman)/ 2007-2012*

Senior RE, for the Petroleum Development Oman (PDO) worked on a large Carbonate brown field reservoir (**Fahud**) under Waterflood and GOGD processes.

*Senior Reservoir Engineer, Sonatrach PED / 1989-2007*

Worked as field manager responsible for the Production planning & Reservoir Management of a major Sandstone under waterflood process.

## PROFESSIONAL EXPERIENCE

**Consultant Sr. Reservoir Engineer / 2018**

Working as a consultant Senior Reservoir Engineer and member of a multi-disciplinary teams, providing technical assistance and FDPs to some NOCs in Central Africa

**Consultant Sr. Reservoir Engineer, SGS (GEA Fields, South of Algeria) / 2014 - 2017**

Worked as a consultant senior Reservoir Engineer and member of a multi-disciplinary team (Engineering Team) for Sonatrach (previously Sonahess), providing technical support for many Sandstone formation oilfields under Waterflood and Gas-Miscible flooding processes.

- Optimizing the production and injection performance of the oilfields with the implementation of a surveillance strategy plan and generating the WF and MF Pattern diagnostic plots using OFM and Excel Spreadsheet.
- Building and Running Reservoir Simulation Models of mature Fields for FDP purposes.
- Providing the Well and Field Forecasts using DCA (OFM).
- Preparing and Making Presentation for the Management.
- Mentoring less experienced Team members and new Graduates.

**Reservoir Engineer, Occidental Oman (Oxy) / 2012 – 2014**

Worked as a Reservoir Engineer member of a multi-disciplinary team (RM Team) for Occidental Oman (Oxy) managing many Carbonate reservoir oilfields (Wadi Latham and Safah) under Waterflood process.

- Optimizing the production and injection performance of the oilfields, also forecasting the oil and gas reserves estimation and production forecasting
- Building and running reservoir simulation model of mature and green fields for FDP purpose.
- Providing the Well and Field Forecasts using DCA (OFM).
- Generating Types Curves for Oil producer and Water injector wells.

**Reservoir Engineer, Petroleum Development Oman (PDO) – Shell / 2007-2012**

Worked as a Reservoir Engineer (WRM Team), for the Petroleum Development Oman (PDO) on a large Carbonate reservoir of a mature oilfield (Fahud) under Waterflood and GOGD processes. Water flood horizontal line drive and crestal Gas Injection develop the field.

Part of an integrated team contributing in various reservoir engineering specialties namely.

- Contributing to the field performance and development reviews, aiming at identifying technically and economically attractive development activities
- Main responsibilities include reservoir voidage management, setting pattern production/injection target, swing list & pressure map update, Waterflood pattern sweep evaluation, water management, production / injection forecast, data gathering, monitoring, interpretation and implementation of field development plan FDP
- Forecasting production and reserves estimation, optimal production delivery, reservoir surveillance and well interventions.
- Participating in the design and surveillance of waterflood and gas injection projects (GOGD & Waterflood Pattern Analysis);
- Monitoring and troubleshooting producing operations and well integrity.
- Providing the requirements for short term individual well as well as longer term evaluation and prediction of reservoir performance.
- Providing the focuses on production and injection well performance analysis, diagnosis of potential problems, and the design of remedial and intervention programs.
- Participating & providing technical basis to support appraisal, forecasting and development planning (FDP, PB, ARPR & SFR);
- Providing compelling advice and effectively influence key reservoir and development engineering decisions and decision-making processes;
- Identifying opportunities for optimization, evaluating feasibility and proposing alternatives that can result in cost reduction, reserves increase and development plan optimization.
- Analyzing data and production reports to quantify and field monitoring performance from various sources (Field Data & RT);
- Monitoring production from the field, analyzing all relevant data and ensuring that reservoirs are being properly managed, production is maximized, and recoveries are optimal.
- Working with a multidisciplinary team in a Collaborative Work Environment (CWE);
- Establishing and maintaining strong working relationship with Operations personnel.
- Monitoring well performance, planning and executing remedial operations, production optimization, facility projects and engineering technical support such as the planning of well interventions and stimulations.
- Planning and providing surveillance support (SBHP, BUP, FOP, Step-rate, Gradio, RST, PDG, injectivity and productivity profile); Designing road map to overcome challenges (Risk, Metering issues, Plugging, Short-circuiting...) in order to minimize deferment.
- Optimizing the production and injection performance as well as participating in oil and gas reserves estimation and production forecasting;
- Caring out for efficient reservoir understanding and management using OFM, Petrel and MBal;

- Monitor pressure distribution to optimize water injection and voidage off take management.
- Coach and mentor junior engineers in line with the staff development plans

## Senior Reservoir Engineer, PED Sonatrach – Shell / 1989-2007

Senior Reservoir Engineer for Sonatrach, PED Division. Algiers Algeria, I worked as Field Manager responsible for the Production planning & Reservoir Management of a major Sandstone Oil field under waterflood process as well smaller satellite Gas & Oil fields;

- Maintaining continuous communication with field personnel and providing necessary information, instructions and guidance once agreed and monitor the progress and execution.
- Responsible for all aspects of reservoir simulation modeling including structural modeling, geo-modeling, equation of state modeling, static and dynamic reservoir analysis, production forecasting, and history matching.
- Assisted the Geologist to build the Static Model starting from the core description, laboratory analysis, then building the full Reservoir characterization and Geological model under the supervision of a consulting company.
- Dynamic Model was ran using VIP simulation after adapting the Geological Model since this specific reservoir is located above sea level. The Initiation was successfully calibrated to the volumetric approach followed by the History Matching; several scenarios for field development align to the goals of the field business strategy. The project was presented including the economic results and forecasts to management. Furthermore, it was brought to execution by drilling the first horizontal in the region then implemented for full field development project including infill-drilling of new oil producers and water injectors.
- Reservoir characterization; Fluid characterization; well reservoir engineering; Field Reservoir Engineering with respect to reservoir description, fluid dynamics, reservoir simulation (Eclipse & VIP), production forecasting and estimation.
- Waterflood project; design, supervising and implementation of the FDP project started by selecting a proper water source for sufficient supply and water compatibility; successfully putting together a boosting station connected to water injectors with surface network and Real-Time surveillance process.
- Initiation and supervision of Gas Flaring plant, gas was recovered from 10 gathering stations to be introduced into a circular process, some of it used for Gas-lift the surplus shipped for commercial purpose.
- Analyzed and validated field data (pressure, production, core and log data etc.).
- Utilizing decline trend analysis, volumetric and material balance techniques to estimate reserves and characterize various reservoirs.
- Performed budget and development planning and presented the economic results and forecasts to management by providing economic and technical evaluation and analysis of oil and gas reserves to support acquisition opportunities.
- Utilize experience with a wide variety of producing environments including low pressure and oil and gas rate wells.
- Made presentations to senior management and partners as required.
- Monitoring the development of a multi-layer field, the production performance of the wells, allocating their production to different gathering stations and reservoir.
- Previously, I worked for 3 years as a Field Engineer for Sonatrach, in the South of the country, supervision field operations mainly; coiled tubing stimulation, pressure interpretation, performing and interpretation of Sonolog survey.

## SPECIAL TRAININGS

- Reservoir Engineering, 6 months course in 1996 by IHRDC
- Petroleum Risks & Decision Analysis, Apr. 1999 by OGCI
- Horizontal & Multilateral wells Analysis & Design, May 2000 by OGCI
- Reservoir management, Nov 2000 by OGCI
- Reservoir Simulation Strategies, Jul 2002 by OGCI
- Oil Recovery Enhancement Techniques, Sep 2002 by OGCI
- Petrel Introduction Course, May 2006 by SLB.
- Petrel Reservoir Engineering Course, Sep 2006 by SLB.
- Petrel Process manager Course, Jul 2006 by SLB
- CMG Reservoir Simulation, Jul 1998 by CMG Calgary
- Reservoir Simulations, IFP Nov 1995 by ENSPM
- Géostatiques Pétrolières, IFP Oct 2004 by ENSPM
- Production Logging Test Interpretation "Saphir", Jun 2001 by KAPPA
- Eclipse Blackoil Reservoir Simulation, Jan 2007 by SLB
- Eclipse Advanced Options, Feb 2007 by SLB
- Eclipse frontsim, Sep 2007 by SLB
- H<sub>2</sub>S Awareness and Escape training, December 2008
- DuPont's Safety Training, Apr 2008 by PDO
- Defensive driving course, February 2010
- Petroleum Experts (Prosper, Gap & Mbal), Oct 2008 by Petex
- Desktop-VIP course, Dec 2001 by Landmark
- Many training on DESKTOP-VIP, PARALLEL-VIP, GRIDGENR, PREXEC, PLOTVIEW and 3DVIEW with Landmark Consultant in Algiers (ALGERIA)
- Production Logging Interpretation PLT "Emeraude", February 2001 by KAPPA
- Advanced Pressure Transient Analysis "Saphir", May 2003 by KAPPA
- Advanced Welltest Analysis, 2002 by Tiab Algiers (PED Sonatrach)