

Jacques Millette
Associate Reservoir Engineer, P.Eng. M.A.Sc.



MHA Petroleum Consultants
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EDUCATION

- M.A.Sc. (Masters of Applied Science) in Chemical Engineering, 1994. University of Waterloo, Canada
- B.A.Sc. (Bachelor of Applied Science) in Chemical Engineering, 1992. University of Waterloo, Canada. (Graduated with First Class Honours)

PROFESSIONAL PROFILE

Over 18 years of petroleum engineering experience including:

- Field development planning, project management, forecasting, reservoir characterization, simulation, reserves estimation, and mature field re-developments
- 7 years of experience managing development and re-development projects
- Proven track record in identifying undeveloped reserves and bringing them on production
- Well rounded petroleum engineering background with experience in production, drilling, and facilities
- Excellent written and verbal communication skills
- English, Spanish, and French language fluency
- Extensive international experience

WORK EXPERIENCE

MHA PETROLEUM CONSULTANTS, Bakersfield, California

(2012 – Present) **Associate Reservoir Engineer**

Senior consulting reservoir engineer in MHA California, a provider of reserves estimates, development plans, well and field evaluations, simulation studies, upside evaluations, and other reservoir engineering services to clients in the USA and worldwide. Prior to joining MHA in September 2012, provided reservoir engineering consulting services on an independent basis since 2009 to clients in the USA, Canada, Middle East, and South America.

PETRO-TECH PERUANA S.A., LIMA PERU

(2005 – 2009) **Senior Manager of Engineering, Development and Drilling**

Senior Manager of Engineering, Development and Drilling in charge of a group of 30 professionals in the reservoir engineering, development geology, production engineering, structural engineering, and drilling departments. Responsible for new field development planning, well proposals, workover planning, gas and oil production optimization, drilling project planning and budgeting in offshore Peru (Blocks Z2B and Z6). Created and managed a work program for 3

drilling rigs and 3 workover rigs with an annual capital budget of over \$100 million. Performed short and long term project planning and participated in regular meetings with other senior managers and the company owner. Represented the company in meetings with regulatory authorities. Recruited professional staff for engineering and drilling positions. Additional responsibilities included preparing reports for investors and making presentations to secure project financing. Personally responsible for ensuring that drilling plans were successfully carried out and that new oil was brought on stream on schedule and on budget. Able to accomplish objectives by improving the existing organization through select hiring and by providing training, resources and guidance to the team. Effective at bridging gaps across organizational areas and diverse nationalities. Key participant on the team responsible for reorganizing the company in preparation for sale, as well as preparing the data room and making presentations to prospective buyers. The company was successfully sold to a consortium of Ecopetrol and KNOC in February 2009 for \$900 million.

OCCIDENTAL PETROLEUM, CALIFORNIA, USA

(2004 – 2005) **Reservoir Engineering Advisor**

Reservoir engineer in the Elk Hills field waterflood asset team. Responsible for conducting waterflood studies to evaluate the effectiveness of existing waterfloods and identify optimization opportunities. Other responsibilities included artificial lift optimization, AFE preparation for well workovers, and reserves validation. Performed a remaining potential study of the 26R reservoir including waterflood and CO2 flood evaluations. Responsible for planning advanced fluid studies, conducting some black oil and compositional simulations, and performing economic analysis of EOR options.

PERENCO ECUADOR, QUITO, ECUADOR

(2002 – 2004) **Geoscience Manager**

Lead reservoir engineer and manager in charge of a staff of 8 professionals (both expats and Ecuadorian nationals) in reservoir engineering and G&G. Directed the well planning, production optimization, project planning and budgeting, new ventures analyses and field development in Ecuador (Blocks 7 and 21). Management responsibilities included building the group capabilities to include petrophysical, geophysical, geological and reservoir engineering analyses, as well as advanced 3D geomodeling using Petrel and simulation using Eclipse. Responsible for planning a 20,000 BOPD new field development with six horizontal and deviated wells completed and producing in 2004. Personally responsible for conducting full field reservoir simulation studies using Eclipse to place new development wells and locate infill drilling opportunities.

SI INTERNATIONAL, INC. BAKERSFIELD, CA, USA

(2000 – 2002) **Senior Petroleum Engineer**

Reservoir and simulation engineer responsible for performing integrated reservoir studies for international and domestic clients. Developed detailed reservoir models working within a multidisciplinary team of geophysicists, petrophysicists, geologists, and geostatisticians. Extensive experience in simulating oil and gas reservoirs with specialty in water drive mechanisms. Additional responsibilities included providing conventional reservoir engineering analyses including decline analysis, material balance, well test interpretation, reserves estimation, and economic analysis. Projects included: integrated study of a large heavy oil field in Venezuela (PDVSA); simulation modeling of a large heavy oil field in Guatemala (Perenco); simulation for a horizontal well development study (EOG Resources); and simulation for a large

Tanzanian gas reservoir development (PanAfrican Energy). Earned a reputation among my clients for creative problem solving and consistent delivery of high quality technical work.

PANCANADIAN PETROLEUM, CALGARY, CANADA

(1996 – 2000) **Sr. Reservoir Engineer**

Reservoir engineer in the Reservoir Engineering Centre of Excellence responsible for performing detailed reservoir engineering studies including simulation for field development and optimization. Prepared development plans including well locations and forecasts for a full field heavy oil development project. Worked in cross-functional teams developing integrated reservoir models and performed simulation studies to identify opportunities to increase recovery. Performed reservoir engineering analyses for business development teams requiring reserves estimation, production forecasting and economic evaluations under strict deadlines and with limited information.

(1994 – 1996) **Production Engineer** stationed in PanCanadian's Brooks production district. Responsible for wellbore and surface facilities in an active area with over 200 producing wells. Programmed well workover jobs and surface gathering facility projects. Performed artificial lift designs using progressive cavity pumps, reciprocating pumps, ESP's and plunger lifts.

PROFESSIONAL MEMBERSHIPS

P. Eng. (Registered Professional Engineer) in the Province of Alberta, Canada since 1996.

Member of the Society of Petroleum Engineers (SPE) since 1994.

Member of the Association of Professional Engineers, Geophysicists and Geologists of Alberta (APEGGA) since 1994.

SPECIALIZED SOFTWARE

Advanced users knowledge of:

- Eclipse, IMEX, Petrel RE
- PEEP
- Petroleum Experts MBAL, GAP, and Prosper
- OFM, DSS
- PanSystem, Saphir, Interpret 2, Fekete
- Visual Basic