



KHANI GHAFFARI, P.Eng.

Associate

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Khani is an Associate of Sproule and has been a Sproule professional since 2004. He lectures to the petroleum industry through Sproule's course on the "Evaluation of Canadian Oil and Gas Properties" taught inhouse as well as to the CIM and at the University of Calgary. He also is well versed in the use of Fortran, Western Atlas VIP, CMG IMEX, FAST, Merak PEEP and Portfolio, Enterio's MOSAIC, Value Navigator, AccuMap, Petrodesk, GeoScout, Surfer, H₂S Alive, and WHMIS. Khani's experience lies mainly in the Western Canadian Sedimentary Basin.

Diplomas and Degrees

- ❖ M.Sc. Petroleum Engineering (1995), University of Alberta, Edmonton, Alberta, Canada
- ❖ B.Sc., Petroleum Engineering (1992), University of Wyoming, Laramie, Wyoming, U.S.A.
- ❖ Petroleum Engineering Technology Diploma (1991), Northern Alberta Institute of Technology, Edmonton, Alberta, Canada

Continuing Education

- ❖ Managing Risks and Strategic Decisions in Petroleum Exploration & Production, PIECE, July 2008, Calgary, Alberta
- ❖ Determining and Interpreting PVT Properties and Phase Behaviour of Petroleum, EPIC Educational Program, March 2007, Calgary, Alberta
- ❖ Leadership Skills for Supervisors, PIECE, May 2006, Calgary, Alberta
- ❖ Evaluation of Coalbed Methane, Sproule Associates Limited, May 2006, Calgary, Alberta
- ❖ Introduction to Natural Gas Gathering and Processing, PIECE, May 2005, Calgary, Alberta
- ❖ Geophysics for Petroleum Engineers, Hot Engineering, May 2003, Calgary, Alberta
- ❖ Waterflooding A to Z, Petroskills, May 2002, Houston, Texas
- ❖ Evaluation of Oil and Gas Properties, CIM, May 2000, Calgary, Alberta
- ❖ Numerous Graduate Courses, Petroleum, Mechanical and Civil Engineering, University of Alberta, 1992 to 1995, Edmonton, Alberta

Memberships

- ❖ Association of Professional Engineers, Geologists and Geophysicists of Alberta (APEGGA)
- ❖ Petroleum Society of Canada (PetSoc)
- ❖ Society of Petroleum Engineers (SPE)

Work Responsibilities

- ❖ Estimate reserves and economics for oil and gas properties.
- ❖ Evaluate acquisitions and divestitures.
- ❖ Carry out reservoir assessments
- ❖ Conduct waterflood evaluations
- ❖ Prepare regulatory submissions
- ❖ Conduct economic analyses

Previous Employers

- ❖ 1998-2004 **Trimble Engineering Associates Ltd.**, Calgary, Alberta — *Reservoir Engineer*
 - ❖ Conducted economic analyses for year-end reporting, securities submissions, acquisitions and divestitures, etc.
 - ❖ Carried out interpretation of corporate revenue statements vs. historical trends to estimate economic parameters.
 - ❖ Applied methods, such as decline curve analyses, material balance calculations, volumetric calculations, and log analyses, to establish reservoir volumes.
 - ❖ Determined well deliverability, production forecasting, and completion evaluations in conjunction with the use of well logs, completion/workover reports, flow/build-up and drill stem tests.
- ❖ 1997-1998 **Epic Consulting Services Ltd.**, Calgary, Alberta — *Reservoir Engineer*
 - ❖ Responsible for data collection, review, evaluation and entry of PVT data; various reservoir engineering calculations such as conformance plotting and material balance evaluation; integrating geological data into computer models; simulator set-up and execution.
 - ❖ Performed global and detailed history matches.
 - ❖ Carried out prediction of several waterflood scenarios to evaluate spacing, pattern, and horizontal well infills using a UNIX-based comprehensive black oil simulator.
 - ❖ Carried out reserves determinations and pressure transient analysis of oil and gas wells.
- ❖ 1996-1997 **Culshaw Petroleum Services Inc.**, Calgary, Alberta — *Reservoir Engineer*
 - ❖ Responsible for design, supervision and analysis of various tests for oil and gas wells.
 - ❖ Design and supervised drilling and well completion programs for oil and gas wells.
- ❖ 1993-1996 **University of Alberta**, Edmonton, Alberta — *Teaching and Research Assistant*

Committee Work

- ❖ Member of the Board of Examiners of the Association of Professional Engineers, Geologists and Geophysicists of Alberta (APEGGA)

Publications

- ❖ "Horizontal Well Testing in Composite Reservoirs", M.Sc. Thesis, November 1994
- ❖ "A Numerical Investigation of Pressure Transient Analysis for Horizontal Wells in Composite Reservoirs Mimicking Thermal Recovery Situations", JCPT, March 1998