



MOHAMMAD ALI BAGHERI, Ph.D., P.Eng.

Associate

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Mohammad Ali Bagheri is an Associate of Sproule and has been a Sproule professional since 2006. He has experience in Argentina, Canada, Iran, Russia, and the United States. Mohammad is fluent in English and Farsi.

Diplomas and Degrees

- ❖ Ph.D., Reservoir Engineering (2006), University of Calgary, Calgary, Alberta, Canada

Thesis: Modeling dynamic fracture permeability in a coupled dual porosity simulator.

- ❖ M.Sc., Reservoir Engineering (2000), University of Tehran, Tehran, Iran

Thesis: Simulation studies of gas injection for pressure maintenance.

- ❖ B.Sc., Chemical Engineering (1997), University of Petroleum Technology, Ahwaz, Iran

Memberships

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

Previous Employers

- ❖ 2005 **Taurus Reservoir Solutions Ltd.**, Calgary, Alberta — *Software Developer*
 - ❖ Developed a commercial coupled dual porosity reservoir and geomechanics simulator.

- ❖ 2003 **Taurus Reservoir Solutions Ltd.**, Calgary, Alberta — *Reservoir Engineer*
 - ❖ Modeled produced water reinjection with a coupled simulator.
 - ❖ Analyzed hydraulic fracturing jobs.

- ❖ 1999-2001 **National Iranian Oil Company**, Ahwaz, Iran — *Reservoir Engineer*
 - ❖ Interpreted static pressure tests, well tests, petrophysics data
 - ❖ Reservoir characterization
 - ❖ Reserves estimation
 - ❖ Reservoir simulation
 - ❖ PVT analyses

- ❖ 1997 **National Iranian Oil Company**, Ahwaz, Iran — *Production Engineer*
 - ❖ Surface facilities, sea water injection.

Special Expertise

- ❖ ECLIPSE, IMEX, TERASIM and GEOSIM simulators
- ❖ PVTi and WINPROB
- ❖ PanSys and Fekete Well-Test, RTA
- ❖ PEEP, ValNav
- ❖ FORTRAN, C++, QUICK BASIC, MATLAB
- ❖ Material Balance
- ❖ PetroDesk and AccuMap
- ❖ Finite Difference Method and Finite Element Method
- ❖ Coupled Modelling of Geomechanics and Reservoir Engineering

Publications

- ❖ Bagheri, M., Settari, A., "Modeling Fracture Contribution in Reservoir Compaction", Proceedings of the ISRM Regional Symposium EUROCK 2004 and 53rd Geomechanics Colloquy: Rock Engineering and Practice, October 7 to 9, 2004, Salsburg, Austria, Ed. by W. Schubert, pp. 713-716.
- ❖ Bagheri, M., Settari, A., "Methods of Modelling Full Tensor Permeability in Reservoir Simulators", Journal of Canadian Petroleum Technology, 46(3), pp. 31-38.
- ❖ Bagheri, M., Settari, A., "Modeling of Geomechanics in Naturally Fractured Reservoirs", SPE Paper 93083, Presented at the 2005 SPE Reservoir Simulation Symposium, Woodlands, Texas, January 31 to February 2, 2005 – Accepted for Publication.
- ❖ Bagheri, M., "Modeling Geomechanics Effects on the Flow Properties of Fractured Reservoirs", Ph.D. Dissertation, University of Calgary, Department of Chemical and Petroleum Engineering, 2006.

- ❖ Bagheri, M., Settari, A., "Effect of Fractures on Reservoir Compaction and Flow Modeling", Canadian Geotechnical Journal, 2006, 43, pp. 574-586.
- ❖ Bagheri, M., Settari, A., "Modelling Fluid Flow in Deformable Fractured Reservoirs Using Full Tensor Permeability", Submitted for Presentation in Golden Rock 2006.