



Associates of Reservoir Intelligoic LLC

Associate 1

The President, Selim Hannan, is a diversified professional engineer with 23+ years experience in the petroleum industry in heavy oil, conventional shallow and deep oil and gas, tight gas, oil shale and shale gas projects. Beyond the USA, his international work experience spans countries of former Soviet Union, Canada, North Africa and Mexico. His key competencies are in reservoir simulation, hydraulic fracturing, well testing and pressure transient analysis, estimation of oil and gas reserves, evaluation of oil and gas properties, well log and petrophysical analysis, workover and stimulation, water flooding, thermal recovery processes, horizontal well technologies, scientific and engineering auditing, and teaching & training. He worked for multinational energy companies; national and foreign oil companies; service companies; government agencies (federal and provincial/state); consulting companies and educational institutions. He is Multilingual. He holds a PhD in Applied Geosciences from the University of Toronto, a MS in petroleum Engineering from Moscow Gubkin Institute of Petrochemical & Gas Industry, and a MBA from Heriott-Watt University. He is a registered professional engineer.

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Associate 2

Dr. A. Satter worked for Texaco for 30 years before he retired in 1998 to form his consulting company, Satter & Associates. He has 40 plus years of diversified experience and expertise in reservoir engineering, reservoir simulator development and applications, waterflood and EOR. He previously worked as well for other companies like Amoco Petroleum Company and Frank Cole Engineering, besides teaching at universities in Canada and Bangladesh. Throughout his career he has been very active in technology transfer, teaching and training. He initiated and was responsible for developing and managing Texaco's successful Integrated Reservoir Management Training Program in the 1980s. He offered teaching and training in areas of computer assisted integrated reservoir management, waterflood asset management, reservoir performance analysis, Enhanced Oil Recovery Processes, Basic and Advanced Reservoir Engineering, and Reservoir Simulation Fundamentals. Some of his training courses were taught in USA and internationally in countries like Algeria, Bangladesh, Brazil, Canada, Columbia, Indonesia, Mexico, Middle East, Nigeria, Venezuela. He participated in and led reservoir management projects in the US, UK, Cameroon, Denmark, Indonesia, Nigeria and Trinidad. He published numerous papers in reputed technical journals and wrote four books on topics of reservoir management, water-flood management, reservoir engineering and simulation, which were published by Pennwell Publishing Company. He is a distinguished member of the Society of Petroleum Engineers (SPE), Legion of Honor and Life Member. As SPE's distinguished lecturer he offered lectures around the globe in 1996-97 and 2002-2003 on topics like "Integrated Reservoir Management" and "Asset Management throughout the Reservoir Life Cycle". He holds a BS in Mechanical

Engineering from the University of Dhaka, MS in Petroleum Engineering from the Colorado School of Mines and a doctoral degree in Engineering Science from the University of Oklahoma. **E-mail: info@ReservoirIntelliLogic.com**

Associate 3

Ted Leshchyshyn has 35+ years of petroleum industry experience working on conventional and unconventional resources (oil shale, shale oil, tight sands, heavy oil and oil sands). He worked for E&P companies such as Shell USA, Occidental USA, Petro-Canada; service companies like BJ Services, Halliburton, NOWSCO, Fracmaster; consulting company like Knowledge Reservoir and R&D organization like Alberta Research Council. Dr. Leshchyshyn's key competencies are in reservoir management, mini-frac testing, fracture design and stimulation applications, production optimization, operations management, reservoir simulation, thermal recovery processes (steam drive, steam stimulation, SAGD), log and core analysis, pilot design, well test analysis, bottom-hole tool design, geomechanical modeling, technology transfer, training and mentoring, software development and R&D. He is considered a leading authority in Canada and USA for designing fractures in tight sands, shale oil (Elk Hills, Monterey shale) and low permeability rocks. He worked on various international projects besides those of Canada and US. He has several publications. He holds a BS in Chemistry and a PhD in petroleum engineering both from the University of Alberta, Canada.

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Associate 4

Dr. Mainuddin Chowdhury has 20+ years of experience working in the petroleum industry as a geologist. He worked for E&P companies, services companies and government agencies. His experience covers geological interpretation and evaluation of Seismic data, well log interpretation, well site geology and mud logging, regional and basin analysis, reservoir evaluation & reserves estimation, oil field development planning, project evaluation & feasibility studies, contract negotiations and project supervision. He has several publications. Most of his research and practical job experiences included basin analysis and hydrocarbon prospects of different regions of the world like South-East Caspian Depression (Azerbaijan), Bengal Basin (Bangladesh), Volgo-Ural Basin (Tatarstan, Russia), Western Siberian Basin (Russia), Rocky Mountain and Alaska Cook Inlet and North Slope region (USA). He holds MS and PhD in geology and hydrocarbon exploration from Azerbaijan Institute of Petroleum (AzNefteChim). He is affiliated with AAPG.

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Associate 5

Ashish Banik has 15+ years of extensive and diverse experience in petroleum exploration, drilling and production in USA and internationally in countries of Middle East (Qatar, Oman, Abu Dhabi) and Former Soviet Union (Russia, Azerbaijan). He is proficient in both deterministic and probabilistic petrophysical evaluation. His experience covers carbonate, shaly-sand and tight reservoirs, both onshore and

offshore (GOM, Mediterranean, Offshore Trinidad, Turkey, Malaysia and North Sea). He has extensive experience in pre-drill pore pressure and fracture gradient prediction, open-hole, cased-hole, and LWD log interpretation, RCA & SCAL analysis, core-log integration, integrated reservoir characterization. Ashish is well versed in log interpretation software: LOGIC, FLAME, GeoFrame-Petroview Plus, ELANPlus, GEOLOG, QLA2/PRIZM, PowerLog, IP, and pore pressure prediction software, PRESGRAF. He holds BS and MS in petroleum engineering from Moscow Gubkin Institute of Petrochemical & Gas Industry and MS in petroleum engineering from New Mexico Institute of Mining & Technology. Ashish has published several technical papers in journals of SPE, SEG, CIM, and WTGS. He has taught courses on reservoir, drilling, production engineering and formation evaluation and offered seminars to petroleum industry professionals. He is a member of SPE, SPWLA, SEG and AAPG and he is multilingual.

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Associate 6

Tim Leshchyshyn has 15 years of petroleum industry experience working on conventional and unconventional resources (shale gas, shale oil, CBM, tight sands). He worked for both E&P and services companies like Mobil Oil, Petro-Canada, Canadian Natural Resources Limited (CNRL), BJ Services and Fracmaster. His experience covers areas such as fracture design and stimulation dealing with frac fluid development, proppant selection, shale gas, shale oil and CBM development, database management, software design and business development. He holds several patents in areas of frac stimulation, frac fluid development and proppant choices. He holds BS in Chemical engineering from the University of Alberta, Canada. He is a registered professional engineer in Alberta. He is a member of SPE and CSUG (Canadian Society of Unconventional Gas).

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Associate 7

The secretary has over 16 years of experience in operating and service companies, consulting, R&D and teaching environments. His technical competencies include classical reservoir engineering, numerical simulation, reservoir characterization, Petrophysics/FEWD, cold and thermal recovery of heavy oil and bitumen, EOR of conventional oil, reservoir geophysics, reservoir depletion strategy, field development planning, reserve evaluation and economic evaluation of hydrocarbon resources. He has published over 30 technical papers & reports in these areas. He holds a PhD in petroleum Engineering and he is a registered professional engineer.

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