

Economides Consultants & OTEK Joint Capability Statement



“Delivering quality expert advice and practical environmental solutions to Fortune 500 companies and global oil & gas professionals”



Economides Consultants, Inc.

The Managing Partner of MJE Consultants, Dr. Michael J Economides is also a Professor at the Cullen College of Engineering, University of Houston, teaching and conducting research in both chemical and petroleum engineering.

Dr. Economides is one of the most instantly recognizable names in the energy, petroleum and chemical industries for seminal contributions on the global critical issues and significant role in technology development and application.

Areas of activities, combining at the highest levels theory and field practice, include:

- Petroleum production;
- Petroleum management;
- Particular emphasis on natural gas production (especially for unconventional gas such as tight formations and shale);
- Natural gas transportation (LNG, CNG and processing);
- Economics; and
- Geopolitics.

Dr. Economides' works on production engineering, hydraulic fracturing, and shale gas are considered pioneer and are referenced by most major practitioners in the field.

Dr. Economides is considered to be one of the world's leading authorities on natural gas from the technical to the economic to the geopolitical.

OTEK Australia Pty Ltd

OTEK is a leading environmental, engineering and remediation consultancy company established in Australia in 1991 with a foundation that was based in hydrocarbon assessment and remediation projects.

OTEK services have expanded to embrace all aspects of the environmental consultancy solutions sector and has an international technically advanced team located in offices around Australia and China.

With OTEK's strategic alliance partner and global leader, ARCADIS, together we are able to deliver environmental solutions with extensive international experience and support the demands for superior expert service.

Dr. Economides was a co-founder of OTEK, and OTEK offers support and services to Economides Consultants clients and projects in Australia, predominantly in the oil and gas arena.



Expert Services

Economides Consultants has conducted consulting and advising activities for over 40 countries and major corporations.

It has worked on technical consulting projects in over 70 countries beyond the United States, with multiple activities in Abu Dhabi, Algeria, Argentina, Austria, Australia, Bahrain, Bolivia, Brazil, Canada, China, Colombia, Denmark, Dubai, Egypt, France, Germany, Great Britain, Greece, Holland, Hungary, Italy, Libya, Norway, Poland, Russia, Spain, Venezuela and Yugoslavia.

Economides Consultants has also provided expert advice and witness for a number of legal cases.

Over 200 short courses have been taught throughout the world attended by over 4000 engineers and technologists.

Main short courses were:

- Petroleum production engineering.
- Reservoir stimulation including hydraulic fracturing and matrix stimulation.
- Advanced fracture mechanics.
- Horizontal well performance and completion.
- Introduction to Petroleum Engineering (for non-petroleum engineers)



Professional Experience

Recent service includes:

- Santos, Australia for CBM development in Queensland,
- Senior Technical Advisor to Sinopec for shale gas development throughout China,
- COSL, China's only integrated service company, affiliated with CNOOC,
- Russia's Sibneft (acquired by Gazprom) and Yukos, Russia's largest petroleum company but now defunct for the well known reasons.

Other retainers included world wide training and technical activities with:

- ENI, Italy's major petroleum company.
- In the 1990's, Dr. Economides, principal of Economides Consultants served as Senior Advisor on Production Technology for PDVSA, the national oil company of Venezuela.

Economides Consultants does a wide range of industrial consulting, including projects and retainers by several Fortune 500 companies and national oil companies.

- **2011- Sinopec, China:** Exclusive senior advisor for shale gas development in China.
- **2011- Santos, Australia:** On retainer for CBM development in Queensland, Australia.
- **2005- CNOOC, China:** Senior Technical Advisor to both CNOOC and its wholly owned service company subsidiary, COSL.
- **1999- ENI, Italy:** Worldwide Advisor on production enhancement with activities in Italy, Pakistan and Algeria.
- **Sibneft, Russia:** Advising and evaluation of production technologies for Russia's fourth largest oil company.
- **Yukos, Russia:** Senior Technical Advisor on production technologies for Russia's largest oil company.
- **Petrobras, Peru:** Hydraulic fracturing of mature fields.
- **El Paso Corporation:** Multiple major retainers for strategic issues, spanning the entire spectrum of energy integration.

- **EnerSea Corporation:** Advisor for the development of compressed natural gas (CNG) systems, natural gas supply and natural gas markets.
- **Cheniere Energy (Houston, Texas):** Major retainer for the development of LNG options, technological, economic and logistical issues. Developed far – reaching estimates for international natural gas supply and trade.
- **Santos Petroleum (Australia):** Consulting on low-permeability gas reservoir hydraulic fracturing.
- **MB Petroleum Services (Oman, Saudi Arabia, Qatar, United Arab Emirates):** Advisor for the introduction of hydraulic fracturing.
- **Halliburton Energy Services:** main worldwide trainer/instructor on horizontal wells and hydraulic fracturing, large-scope project for the evaluation of the company's technology.
- **PDVSA (Venezuela):** Senior advisor to the Director responsible for nationwide production technologies.
- **Shell International:** World-wide consultant on critical well delivery.
- **PDO (Oman)/ Shell:** Advisor on well breakthrough technologies, advanced multilateral well applications.
- **PanCanadian Petroleum Company:** Evaluation of the performance and hydraulic fracturing of horizontal wells.
- **Tecpetrol (Argentina):** Assistance for horizontal well projects.
- **Mosbacher Energy:** application of horizontal well techniques for the development of the re-activated Las Mercedes Field in Venezuela.
- **Chevron:** use of multilateral and/or fractured wells for the diatomite reservoirs in Bakersfield, California and vicinity.
- **Gel Sciences of Boston, Massachusetts:** research on the development of the next generation, advanced drilling fluids targeting horizontal wells almost exclusively.



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