



## CARL D. RICHARD

*Senior Consultant*

Main: 713.651.9455

crichard@millerandlents.com

“*An understanding of Earth’s clues is essential in Petrophysics.*”

### EDUCATION

- B.S. Petroleum Engineering, University of Southwest Louisiana, 1984
- B.S. Electrical Engineering Technology, Nicholls State University, 1979

### RELEVANT AREAS OF EXPERTISE

#### International and North American Experience:

Petroleum engineer with 32 years' experience in petrophysics, reservoir engineering, economic analysis of oil and gas fields, reserves determinations, and acquisition and divestiture evaluations. Experienced in both deterministic and probabilistic resources assessment methods. Experienced with providing reserves and resources reports and economics for clients and with assisting clients in the acquisition and divestiture of oil and gas assets. Expertise in support of initial public offerings of oil and gas companies. International experience includes major oil and gas field engineering and petrophysical evaluations in Russia (*Western Siberia, Volga-Urals, and Arctic*); Ukraine; Kazakhstan; Latin America; offshore West Africa; Egypt; and Australia (*North West Shelf, Bass Straits, Timor Sea*). United States experience includes the Gulf of Mexico offshore; Rocky Mountain onshore, Mid-Continent; and Alaska North Slope (*Prudhoe Bay*). Specific experience in unconventional plays includes the Bakken, Barnett, Bossier/Haynesville, Eagle Ford/Pearsall, and Marcellus shales and coal bed gas fields. The focus of recent work has included evaluation of contingent and prospective resources, and attention to SPE reserves definition standards.

### EXPERIENCE

1997 – Present	<b>Miller and Lents, Ltd. — Houston, Texas</b>
2016	Senior Consultant
2004	Senior Vice President
2001	Vice President
1997	Consulting Engineer

Responsible for oil and gas reserves and resources evaluations and economic determinations of domestic and international projects, both onshore and offshore, for numerous clients, including oil companies, private individuals, and banks.

## EXPERIENCE *(continued)*

- 1985 – 1997 **Mitchell Energy Corporation — The Woodlands, Texas**  
1995 – 1997 Staff Petroleum Engineer, Petrophysical Section Leader  
Supervised the engineering group responsible for the acquisition and interpretation of all corporate well logs; conducted field studies; and edited log data for 3D geophysical applications.
- 1987 – 1995 Senior Reservoir Engineer  
Performed economic and reserves evaluations of all projects requiring capital expenditures in Midland District; reserves determinations using material balance, volumetric, and decline analysis; reservoir performance predictions; performed pressure transient analysis, simulation studies, and log analysis.
- 1985 – 1987 Petrophysical Engineer  
Responsible for acquisition and interpretation of well logs in the Fort Worth Basin of North Texas.
- 1979 – 1981 **Shell Oil Company — Western E&P, New Orleans, Louisiana**  
Engineering Technician, Senior Engineering Assistant  
Responsible for the acquisition, quality control, and the preliminary analysis of open hole logs data associated with exploration and development wells.

## PROFESSIONAL ORGANIZATIONS

- Member - Society of Petroleum Engineers
- Member - Society of Professional Well Log Analysts

## PROFESSIONAL REGISTRATIONS

- Registered Professional Engineer, State of Texas

## OTHER

- Nationality: American
- Language Skills: English
- Years with Firm: Since 1997
- Software Skills: Proficient in economic, probabilistic, and petroleum engineering software, including ARIES, PHDWin, IHS Fekete, probabilistic software @RISK, and well log analysis software, PowerLog and PRIZM.



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