

**LESLIE S. O'CONNOR**  
*Petroleum Consultant*



**MHA Petroleum Consultants LLC**

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**EDUCATION**

- Extended BSc Geology with Applied Engineering, North Arizona University, 1978
- Graduate Studies in Petroleum Engineering, Colorado School of Mines

**PROFESSIONAL PROFILE**

- In excess of 39 years of petroleum engineering experience
- Project management
- Oil and gas field studies; United States, China, Mexico, South America, Western and Eastern Europe and Asia
- Petrophysical studies
- Unitization studies
- Workover opportunity identification
- Property evaluation, acquisition and divestitures
- Reservoir and economic evaluation
- Expert witness testimony
- Gas deliverability and gas storage
- Coal bed methane studies
- Reservoir simulation
- Waterflood feasibility studies
- Development of reservoir engineering courses for industry
- Studied fields in the United States (essentially all oil and gas areas), U.K. Offshore, China, Mexico, South America, Western and Eastern Europe and Asia

**WORK EXPERIENCE**

MHA PETROLEUM CONSULTANTS LLC, Denver, Colorado:

(February 2017) **Partner and Associate**

(August 2011) **Managing Partner and Petroleum Consultant**

(March 2008) **President and Petroleum Consultant**

(May 2006) **Vice President and Petroleum Consultant**

Responsible for Denver and International operations: project manager, reserve and economic evaluations, litigation support, reservoir studies, acquisition and divestiture support. Manages

an organization of approximately 30 people with active engineering projects worldwide. In charge of staff recruitment, development of new business and new business contacts, as well as maintaining relationships with the company's existing client base.

SPROULE ASSOCIATES INC., Denver, Colorado

(February, 1997 to May, 2006) **U. S. Manager and Petroleum Consultant**

Responsible for U. S. operations; opened U. S. office for Sproule Associates Ltd. Project manager, reservoir studies, property evaluations, litigation support, acquisition and divestiture support, CBM studies, petrophysical studies, feasibility studies, reservoir and economic studies of properties throughout the U. S.

GEOQUEST RESERVOIR TECHNOLOGIES, DENVER, Colorado:

(Formerly Intera Petroleum and Jerry R. Bergeson & Associates, Inc.)

(January, 1981 to January, 1997) **Petroleum Consultant**

Technical reservoir studies, property evaluations, secondary recovery studies, gas deliverability and gas storage, petrophysical studies, unitization studies, expert testimony, reservoir and economic studies of properties in Williston Basin, Rocky Mountain, Mid-Continent, West Coast and Gulf Coast areas of the U. S.

THUMS LONG BEACH COMPANY, Long Beach, California:

(January, 1980 to January, 1981) **Development/Drilling Engineer**

Responsible for design of highly deviated wellbores, completion design, field operations.

Dresser Atlas, Long Beach, California:

(August, 1978 to December, 1979) **Field Engineer**

Open hole logging operations and log interpretation. Supervised field crew, planned and operated offshore skid unit on Exxon's offshore Belmont Island platform.

**PROFESSIONAL MEMBERSHIPS:**

- Society of Petroleum Engineers – Recipient of the 1995 Regional Service Award
- Society of Petroleum Engineers -Recipient of the 1990 Denver Section Service Award
- Society of Petroleum Engineers-Recipient of the 2014 Regional Service Award
- Society of Petroleum Evaluation Engineers
- American Association of Petroleum Geologists
- Society of Professional Well Log Analysts
- Rocky Mountain Association of Geologists
- 2017 Recipient of Top Women in Energy; Denver Business Journal
  
- ◆ AAPG Certified Petroleum Geologist #5270; Board Certified by Division of Professional Affairs
- ◆ Licensed Professional Geoscientist, Texas #181
- ◆ Licensed Professional Geologist, Wyoming #PG-3059
- ◆ Licensed Professional Geoscientist, Louisiana #14

## **PUBLICATIONS**

1. Seidle, John P. and O'Connor, Leslie S., "The Impact of Undersaturation on Coal Gas Economics", SPE 107731, presented at the 2007 SPE Rocky Mountain Oil & Gas Technology Symposium, Denver, Colorado, U. S. A. 16-18 April 2007.
2. Seidle, John P., O'Connor, Leslie S., "Production Based Probabilistic Economics for Unconventional Gas", SPE Paper #82024, 2003
3. Cluff, Suzanne G., O'Connor, Leslie S. and Hansen, John T., "Petrophysical Analysis of the Frontier Formation (Cretaceous), Whiskey Buttes Field, Lincoln County, Wyoming", SPE Paper 38379, 1997
4. "Remaining Production Potential of Tight Gas Sand Wells in a Reservoir Under Curtailment", GRI Atlas of Major Rocky Mountain Gas Reservoirs, 1993
5. "Marketing Natural Gas from the Rocky Mountain Region", GRI Atlas of Major Rocky Mountain Gas Reservoirs, 1993
6. Seidle, John P., O'Connor, Leslie S., "The Impact of Undersaturation on Coal Gas Economics", SPE Paper # 107731, 2007
7. "Contingent Resources – Real World Examples", presented at the 2008 annual SPEE meeting and at the 2008 COGA-RMAG meeting.
8. Seidle, John P. and O'Connor, Leslie S., "Well Performance and Economics of Selected U.S. Shales", Journal of the SPEE, January 2012.
9. "Satisfying the Requirement of Establishing Reliable Technology. Does the Argument Meet the Criteria?"; presented at the 2015 annual SPEE meeting; Smith, Richard; O'Connor, Leslie; Sidle, Rod.
10. Seidle, J.P., and O'Connor, L.S., "Estimation of Unconventional Well Recoveries and Economics from Transient Flow Data", SPE 179983, presented at the SPE/IAEE Hydrocarbon Economics and Evaluation Symposium held in Houston, Texas, USA, 17-18 May 2016.

## **RECORD OF EXPERT WITNESS TESTIMONY AND/OR REPORTS**

Ed Orr v. Noble Energy Production, Inc.  
Weld County, CO District Court, Case No. 2006CV25  
Deposition November 2007  
Testimony September 17, 2008

Bledsoe Land Company, et al v. Forest Oil Corporation, et al  
Yuma County, CO District Court, Case No. 2008CV31  
Deposition August 2009  
Testimony September 29, 2009

Pinnacle Gas Resources, Inc. v. Big Sky Energy, L.L.C., and Quaneco, L.L.C.  
Big Horn County, MT District Court, Cause No. DV-09-35  
Deposition November 2010

U.S. Securities Exchange Commission v. St. Anselm Exploration Co., et al  
Civil Action No. 11-cv-00668-REB-MJW; U.S. District Court, Colorado  
Testimony August 1-2, 2012

Olympia Minerals, LLC, et al. v. HS Resources, Inc., et al. No. 2005-0927, Division B, Parish of  
Beauregard, State of Louisiana.  
Deposition November 28, 2012  
Testimony March 22, 2013

Barlow & Haun, Inc. et al v. United States of America  
U. S. Court of Federal Claims, No. 08-847-L  
Testimony April 29-30, 2013  
Testimony September 17, 2013

Macquarie Bank Limited et al v. Bradley D. Knickel, et al  
U.S. District Court, North Dakota; Civil Action No. 4; 08-CV-00048-DLH-CSM  
Testimony October 9, 2013

The Chickasaw Nation and the Choctaw Nation v. U.S. Department of the Interior  
No. Civ. 05-1523-W  
U.S. District Court For the Western District of Oklahoma  
April 2015

Buck v. Buck, et al  
Cheyenne County, CO District Court; No. 13CV30004  
Testimony October 20, 2015

Gadeco, LLC; Celeste C. Grynberg, et al v. Jack J. Grynberg; and The Grynberg Petroleum  
Corporation  
Arapahoe County District Court, CO; No. 2016cv030959  
Deposition June 9, 2016  
Testimony June 16, 2016

Oswald III, et al. v. Hathaway, et al  
Denver District Court, No. 2015CV30698  
Testimony September 27, 2016

Harold Rhoades Living Trust v. Kathleen Pennella, et al  
Weld County District Court; No. 2015 CV 30184  
Testimony June 14, 2017

#### **Appearances as an Expert witness in hearings before**

- New Mexico Oil and Gas Commission
- Colorado Oil and Gas Conservation Commission
- Montana Board of Oil and Gas