

EDITH NEWTON WILSON, PhD

Rock Whisperer LLC
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ROCK WHISPERER

Rock Whisperer leverages the skills and talents developed during thirty years with the oil and gas industry to assist for-profit and not-for-profit entities engaged in the transformation from fossil fuels to clean energy sources. Rock Whisperer also uses planning, education and advocacy to enable global outreach opportunities related to equitable and efficient use of natural resources, especially where earth science tools and language skills can help.

PROFESSIONAL EXPERIENCE

Rock Whisperer LLC

President and CEO

founded in 2011

- Consults on projects that explore for and develop clean energy, potable water and food security
- Interprets complex surface and subsurface geology using outcrop, seismic, wellbore and other data
- Provides mapping and technical advice to energy operators, investors and start-ups
- Mentors students and young professionals who aspire to careers in clean energy
- Lectures to professional societies, universities and community groups

Peacework

Risk Manager

2017

- Served as health, safety and logistics resource for students and faculty from the University of Arkansas during a three week service-learning project on a sustainable poultry farm in northern Mozambique

University of Tulsa

Research Associate, Department of Geosciences

2008-2014

- Nurtured collaborative teams of geoscience students via support of group interpretation platforms and advising of project-based seminars

TallGrass Energy, L.L.C.

CEO and Geologist

2008-2011

- Co-founded, built, and sold multi-million dollar oil and gas operating company
- Conducted and managed geoscience and engineering aspects of projects
- Served as focal point for legal, financial, administrative and partner conversations

Samson Resources

Senior Geological Advisor and Technical Manager of Geology

2003-2008

- Generated, evaluated and successfully drilled unconventional plays in North America
- Introduced corporate geologic systems in a shared software and data environment
- Served on peer review, interviewing and new-hire development teams

ConocoPhillips (Bartlesville)

Manager, Global Leadership Development

2002-2003

- Managed a multi-location team which designed, developed and implemented corporate leadership training programs for supervisors and new hires

Phillips Petroleum Company (Bartlesville)

Exploration Director, Global New Ventures

2000-2002

- Served on the Exploration Council, Geoscience Employee Development Committee, and ConocoPhillips Upstream Technology Transition Team
- Led a team of geoscientists in identifying strategic opportunities, including a successful bid in the Saudi Arabia Gas Initiative of 2001
- Managed projects, staff, budget and portfolio analysis

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bp (Houston)

Commercial Team Leader, Trinidad Exploration Business Unit

1999-2000

- Evaluated exploration opportunities, oversaw research and training and negotiated exploration and joint operating agreements and rig contracts

Amoco Production Company (Houston)

Planning Director and New Ventures Geologist

1989-1999

- Supported bpAmoco integration teams with financial analysis and provided strategic planning, budget and portfolio management for midstream gas business development projects in Brazil, Trinidad and Venezuela
- Coordinated joint project with Sonangol in Angola, including regional interpretation, training of visiting geologists and collaboration with Ministry
- Generated, evaluated and executed exploration projects in Europe, the Middle East, Africa and South America

Anaconda Minerals Company (Missoula)

Prospecting Geologist, Coeur D'Alene silver district

1982-1983

EDUCATION

- The Johns Hopkins University, PhD, 1988
- The Johns Hopkins University, MA, 1986
- Dartmouth College, BA *cum laude*, 1982

Executive Development

- Phillips Petroleum, 2001, and Amoco Production Company, 1998
- Southern Methodist University; Finance Seminar, Cox School of Business, 1997
- Rice University; Management Program, Office of Executive Development, 1995

GEOTECHNICAL SKILLS

- Geological field studies in settled and remote areas
- Application of industry standard software including GIS
- Acquisition, QC, management and interpretation of surface and subsurface integrated datasets, including spatial, time-dependent, remote sensing and potential field data
- Surface and subsurface mapping of geological and geomorphological features

AFFILIATIONS AND ACTIVITIES

- Sustainable Tulsa, Business Member
- Tulsa Global Alliance, Citizen Diplomat
- Society of Economic Geologists, Member
- American Association of Petroleum Geologists, Member
- University of Arkansas Department of Geosciences Advisory Board, Honorary Member
- Mayor's Commission on the Status of Women in Tulsa, Commissioner, 2013 - 2017
- Dartmouth Educational Association and Alumni Interviews
- Arts and Humanities Council of Tulsa, Past President

INTERNATIONAL

- Traveled to Angola, Austria, Bahrain, Brazil, Canada, El Salvador, England, France, Germany, Guatemala, Italy, Mexico, Mozambique, Netherlands, Nicaragua, Norway, Peru, Poland, Portugal, Qatar, South Africa, Spain, Switzerland, Tanzania, Trinidad and Tobago, and Venezuela
- Proficient in French, Italian and Portuguese

PERSONAL

- Born in Macon, Georgia; married with one child
- Summited Mount Kilimanjaro, Tanzania, Africa; 19,341 feet; January 25, 2004

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INVITED LECTURES

- 2018 *Transformation: From Fossil Fuels to the Future* – Sasol, Johannesburg, South Africa
- 2017 *Transformation: From Fossil Fuels to the Future* – University of Johannesburg, South Africa; University of Arkansas; Baylor University; Midwestern State University; University of Tulsa
- 2016 *Geologic Framework for Oklahoma Oil Plays* – Panhandle and Ft. Smith Geological Societies
- 2016 *Oklahoma Earthquake Maps* – Kansas Geological Survey
- 2016 *Conventional Wisdom in Unconventional Plays* – University of Kansas
- 2015 *Special Presentation at the Lawrie Hardie Memorial Session* – Geological Society of America
- 2015 *A Career in Geoscience with the Energy Industry* – University of Arkansas
- 2015 *Active Resource Plays in Oklahoma* – Society of Independent Professional Earth Scientists
- 2014 *Vertical Oil Plays and Drilling Activity in the Osage* – Osage Minerals Council
- 2014 *Active Resource Plays in Oklahoma* – Dallas Society of Engineers, Hart Energy DUG Midcontinent Conference
- 2014 *Gas is Found in the Minds of Women* – Desk and Derrick Club
- 2013 *Mississippian Lime Play* – Ardmore, Tulsa, Oklahoma City and Kansas Geoscience Societies
- 2012 *Kilimanjaro Geo-travels* – University of Arkansas
- 2008 *Dolomites and Dolomitization* – University of Tulsa
- 2007 *Gas Shales* – Fort Smith and East Texas Geological Societies
- 1991 *Commencement Address* – Tattnell Square Academy
- 1990 *Dolomitization of the Triassic Latemar Buildup, Northern Italy* – University of Houston

SELECTED PUBLICATIONS

EXTERNAL

Wilson, E. N., W. L. Watney, and G. M. Grammar, in preparation, An Overview of the Giant Heterogeneous Mississippian Carbonate System of the Midcontinent: Ancient Structure, Complex Stratigraphy, Conventional Traps and Unconventional Technology in a High Fluid Volume World; American Association of Petroleum Geologists Special Publication.

Wilson, E. N., 2018; *Transformation: from Fossil Fuels to the Future* (abs); Resources for Future Generations, Vancouver, BC, Canada, June 16-21, 2018, RFG2018-1016.

Wilson, E. N., 2018; *Oklahoma Earthquakes: Reviewing Almost a Decade of Induced Seismicity* (abs); Resources for Future Generations, Vancouver, BC, Canada, June 16-21, 2018, RFG2018-1312.

Müller, I. A., J.D. Rodriguez Blanco, J.-C. Storck, L.G. Benning, **E.N. Wilson**, P. Brack and S.M. Bernasconi, 2017; Re-evaluation of temperature of replacement dolomitization in the Triassic Latemar platform with clumped isotope thermometry; European Geosciences Union General Assembly, Vienna, EGU2017-6085.

Wilson, E. N., 2015; *Conventional Wisdom Prevails in Unconventionally Exploited Oil Plays: An Example from the Giant Mississippian Lime Carbonate System in Oklahoma* (abs); Geological Society of America Abstracts with Programs, Vol. 47, No. 7, p.650.

Wilson, E. N. and J. Wallis, 2015; *Oklahoma Earthquake Maps* (abs); AAPG Datapages/Search and Discovery Article #90221 © 2015 Mid-Continent Section, Tulsa, OK, October 4-6, 2015.

Wilson, E. N., S. Matson, and C. Wickstrom, 2015; *Unified Trap Model for Production Variation in Mississippian Reservoirs of the Cherokee Platform* (abs); AAPG Datapages/Search and Discovery Article #90216 ©2015 AAPG Annual Convention and Exhibition, Denver, CO., May 31 - June 3, 2015.

Wilson, E. N., S. Matson, T. Righetti, and C. Wickstrom, 2014; *Geometry, Trap Configuration, and Production Characteristics of Mississippian Porous Chert Reservoirs in Ice Cream Cone Structures of Foraker Field, Osage County, Oklahoma* (abs); AAPG Datapages/Search and Discovery Article #90189 © 2014 AAPG Annual Convention and Exhibition, Houston, Texas, USA, April 6–9, 2014.

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Wilson, E. N., S. Matson, and C. Wickstrom, 2013; Mississippian Lime Play: Variations in Reservoir Geology East of the Nemaha Ridge (extended abs); Society of Petroleum Engineers, 10.1190/URTEC2013-067 and AAPG, URTEC 1579450.

Pasley, M. A., **E. N. Wilson**, V. S. Abreu and M. G. P. Brandao, 1998; Lower Cretaceous stratigraphy and source rock distribution in pre-salt basins of the South Atlantic: comparison of Angola and Southern Brazil (abs); AAPG Bulletin, v. 82, p. 1949.

Abreu, V., P. R. Vail, A. Bally and **E. N. Wilson**, 1998; Geologic evolution of conjugate volcanic passive margins: influence on the petroleum systems of the South Atlantic; Houston Geological Society Bulletin, v. 40, p. 10-11.

Wilson, E. N., V. S. Abreu, M. G. P. Brandao, M. A. Pasley, J. R. Reber and A. Silva-Telles, 1997; Lower Cretaceous stratigraphy and source rock distribution in pre-salt basins of the South Atlantic: comparison of Angola and Southern Brazil; AAPG/ABGP Hedberg Research Symposium: Petroleum Systems of the South Atlantic Margin, November 16-19, 1997, Rio de Janeiro, Brazil.

Wilson, E. N., 1993; The Jurassic Arab D Formation in Qatar: the effect of minor facies variations on carbonate reservoir quality in low relief traps; in Burchette, T. and G. Harwood (conveners), Carbonate Petroleum Reservoirs: Models for Exploration and Development, The Geological Society, Burlington House, London, March 17-18, 1993.

Hardie, L. A., **E. N. Wilson** and R. K. Goldhammer, 1991; Cyclostratigraphy and dolomitization of the Middle Triassic Latemar buildup, the Dolomites, northern Italy; Dolomieu Conference on Carbonate Platforms and Dolomitization, Guidebook Excursion F, Ortisei, Italy, 56 pp.

Wilson, E. N., 1991; Evaluation of Jurassic Arab D reservoir quality in low-relief traps in Qatar; SPE Middle East Oil Show, Bahrain, November 16-19, 1991, SPE 21447.

Wilson, E. N., L. A. Hardie, and O. M. Phillips, 1990; Dolomitization front geometry, fluid flow patterns, and the origin of massive dolomite: the Triassic Latemar buildup, northern Italy; American Journal of Science, v. 290, pp. 741-796.

PROPRIETARY

Wilson, E. N. and others, 2001; Worldwide Exploration Global Gas Study: US Market Supply; Phillips Petroleum.

Saudi Gas Initiative (**E. N. Wilson** exploration lead), 2000; Proposal to His Royal Highness Prince Saud Al-Faisal, Kingdom of Saudi Arabia with technical discussion; Phillips Petroleum.

Rice, D. E. and **E. N. Wilson** (Benguela Basin Bid Round Team), 1998; Angola Benguela Basin Bid Round Evaluation; Amoco Report R-98-001.

Reber, J. R., and **E. N. Wilson**, 1997; Geochemical clues from piston core surveys: using a new tool to detect viable hydrocarbon systems in under-explored basins; Worldwide Tertiary Basins Forum, Amoco, May 28-30, 1997, p. 28-30.

Wilson, E. N. and others (Joint Projects Group), 1996; Angola Joint Technical Project of Sonangol and Amoco; Amoco Report R-96-0045.

Wilson, E. N. (Italy Joint Venture Study Group - Amoco/Lasmo/Texaco/BG), 1995; Reservoir modeling of Apulian carbonate facies, southern Apennines; Amoco Report R-96-0683.

Wilson, E. N. (Italy Exploration Team), 1995; Gas resource potential of the northern Adriatic Po Basin, Italy; Amoco Report R-95-275.

Wilson, E. N. (Poland Exploration Team), 1994; Evaluation of the hydrocarbon potential of Block B, Lublin trough, Poland; Amoco Report OR-94-0304.

Price, D. J., and **E. N. Wilson** (Qatar Exploration Team), 1991; Technical evaluation of Qatar Block 5; Amoco Report 9000650329.