

# Andy May

Senior Petrophysicist at Kinder-Morgan

andy.may@att.net

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## Summary

Petrophysicist, currently working in Kinder-Morgan's CO2 Division mainly on West Texas CO2 flooding projects and CO2 fields in Colorado and Arizona. Previous experience includes East Texas and Louisiana shale petrophysics, fractured reservoir evaluation worldwide, petrophysical projects in Russia, China, Yemen, West Africa, Canada, Indonesia, Argentina, Gulf of Mexico and Brazil. Written or co-written more than 13 articles on geology, petrophysics, and computer science in various publications including the AAPG Bulletin, Geobyte, International MWD Society Journal, and the SPE. Developed and taught a Shale Petrophysics course for Nautilus with Mike Lovell (U of Leicester). Member SPWLA, SPE and AAPG. Certified Petroleum Geologist #2623. Awarded the AAPG Certificate of Merit for being an editor of Geobyte(1993), Past President of the Oklahoma City SPWLA (1993) and past Vice-President of the Houston Downtown SPWLA (2008). Member of the SPWLA Publication Committee 1995-2002. Specialties: Petrophysics, especially fractured reservoir evaluation, shale gas evaluation, shale oil evaluation, seismic petrophysics, low resistivity pay, formation tester evaluation, capillary pressure analysis, shaly sands, carbonates, NMR, mechanical properties from logs and core.

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## Experience

### **Senior Petrophysicist at Kinder-Morgan Energy Partners**

January 2013 - Present (2 years 10 months)

CO2 source field petrophysics, mainly in Colorado and Arizona

### **Senior Petrophysical Advisor at Devon Energy**

April 2008 - December 2012 (4 years 9 months)

Petrophysics, SE Texas and Louisiana

### **Chief Petrophysicist at Fronterra Geosciences**

October 2006 - April 2008 (1 year 7 months)

Projects included Western Siberia field studies and a fractured igneous reservoir study in Yemen.

### **Petrophysicist at Kerr-McGee**

August 1988 - October 2006 (18 years 3 months)

Petrophysics, worldwide. Much of the work was in China, the UK North Sea, US Onshore and Gulf of Mexico.

### **Manager of Petrophysical Systems at Scientific Software-Intercomp**

June 1985 - August 1988 (3 years 3 months)

Managed the development and maintenance of the Logcalc petrophysical software system

### **Formation Evaluation Specialist at Exxon**

June 1980 - June 1985 (5 years 1 month)

Evaluated wells and supervised logging operations for wells in Indonesia, Thailand and the Western United States.

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## Skills & Expertise

**Petrophysics**

**Carbonates**

**Formation Evaluation**

**Geology**

**Logging**

**Shale Gas**

**Reservoir Evaluation**

**Petroleum**

**Onshore**

**Field Studies**

**Pressure**

**Log Analysis**

**Petroleum Geology**

**Geological Mapping**

**Earth Science**

**Stratigraphy**

**Field Development**

**Wireline**

**Reserves**

**Upstream**

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## Publications

### **Exploration of the L-Structure, Natuna D-Alpha Block, Offshore Indonesia**

Indonesian Petroleum Association Carbonate Seminar Transactions 1982

Authors: Daryl Eyles, Andy May

Daryl Eyles was the senior author of this paper.

### **Well Log and Seismic Character of the Tertiary Terumbu Carbonate, South China Sea, Indonesia**

AAPG Bulletin September 1985

Authors: Andy May, Daryl Eyles

A description of the petrophysical and seismic characteristics of the Natuna D-Alpha Miocene Reef complex.

### **Operating Environments: DOS vs. the Alternatives**

Geobyte June 1991

Authors: Andy May

## **Electromagnetic Propagation Log Interpretation on the Computer**

Geobyte June 1991

Authors: Andy May

Includes Fortran source code

## **DOS and OS/2 Commands**

Geobyte August 1991

Authors: Andy May

## **Operating System Wars - the IBMpire Strikes Back and A Lotus 1-2-3 Well Database**

Geobyte October 1991

Authors: Andy May

## **Manipulating a 3-D Well Database in Lotus 1-2-3**

Geobyte December 1991

Authors: Andy May

## **Beta Testing OS/2 Version 2.0**

Geobyte April 1992

Authors: Andy May

## **Depth Control - The MWD Challenge**

The Pulser December 1994

Authors: Andy May

## **Net Pay Cutoffs from Capillary Pressure**

AAPG Conference: Geological Aspects of Estimating Petroleum Resources and Reserves September 2009

Authors: Andy May

Also presented to the Houston Northside and Westside SPWLA chapters, the Oklahoma City SPWLA Chapter, the Dallas SPWLA and the SPWLA Spring Topical Conference on Net Pay, 2006.

## **Using Wet Shale and Effective Porosity in a Petrophysical Velocity Model**

SPE and OTC, OTC 17643-PP 2005

Authors: Andy May

This paper was chosen to be highlighted in the May, 2006 JPT, p 54-55.

## **Pore-Size Distributions in Vuggy Carbonates From Core Images, NMR and Capillary Pressure**

SPE 56506, SPE Technical Conference, Houston, October, 1999 October 1999

Authors: Robin Ausbrooks, Neil Hurley, Doug Neese, Andy May

Robin Ausbrooks was the senior author of this paper.

## **An Accurate Characterization of Sand Strength in Weak and Unconsolidated Formations Aids Offshore Production Test Designs - A Bohai Bay Case Study**

SPE 64738, SPE International Oil and Gas Conference, Beijing, China, November 2000 November 2000

Authors: Seehong Ong, Andy May, Ian George, Tim Walker, Ziqiong Zheng

Seehong Ong was the senior author of this paper.

## **Learning from Haynesville Shale Evaluation Techniques**

Shale Technology World Europe 2011, Warsaw, Poland November 30, 2011

Authors: Andy May

Verifying the accuracy of shale gas-in-place estimates in the Haynesville Shale.

### **Notes on CEC and Bound Water**

Houston and Oklahoma City SPWLA Lunch Presentation September 10, 2013

Authors: Andy May

A discussion of the relationship of cation exchange capacity (CEC) to mineralogy and environment.

### **Climate and Human Civilization over the last 18,000 years**

wattsupwiththat.com November 17, 2013

Authors: Andy May

An attempt to put current global warming into historical perspective.

### **Seismic Petrophysics**

Presentation to the Texas A&M student SPWLA chapter April 23, 2014

Authors: Andy May

A high level overview of Seismic Petrophysics and a suggested workflow.

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## Education

### **University of Kansas**

BS, Geology, 1970 - 1974

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## Honors and Awards

AAPG Certificate of Merit, Presented in recognition of Dedicated and Meritorious Service to the Association as an Editor for Geobyte. Geobyte was a computer publication of the American Association of Petroleum Geologists, 1993. Award for Exceeding Planned Profit, presented by Scientific Software-Intercomp, 1987. Elected President of the Oklahoma City chapter of the SPWLA for the 1993-1994 term. Elected Vice President of Technology of the Oklahoma City chapter of the SPWLA for the 1994-1995 term. Member of the SPWLA Publication Committee, 1995 to 2002. VP Houston Downtown SPWLA, 2008-2009

## Interests

Golf and travel

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## Languages

**English**

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[Contact Andy on LinkedIn](#)