

## **William M. “Bill” Cobb**

**EDUCATION:** Ph.D., Petroleum Engineering  
Stanford University, January 1971

M.S., Petroleum Engineering  
Mississippi State University, August 1967

B.S., Petroleum Engineering  
Mississippi State University, January 1966

### **WORK EXPERIENCE:**

*1983 - Present*  
*William M. Cobb & Associates, Inc.*  
*President*

- Founded company in 1983
- Conduct technical and economic studies related to the production and management of oil and gas reservoirs during primary, secondary (waterflooding), and tertiary operations
- Provide economic evaluations for determining market value in sales transactions, computing loan amounts, satisfying taxing authorities, and fulfilling needs of client management
- Provide guidance to clients regarding alternate approaches to producing and managing properties
- Teach petroleum reservoir engineering, waterflooding, and petroleum economic classes to the petroleum industry and in-house to companies including ExxonMobil, ChevronTexaco, Ecopetrol, Apache, PDVSA, Phillips, and Repsol-YPF.
- Provide expert witness testimony related to engineering, economic, or industry practices
- Serve as arbitrator in oil and gas related disputes

**1979 - 1983**

***Cornell Oil Company***

***Vice President and Manager of Engineering (Dallas, Texas)***

- Responsible for all oil and gas properties in which Cornell had an interest
- Provided initiative to re-engineer a major waterflood property resulting in infill drilling and pattern realignment leading to significant increases in production rate and reserves
- Coordinated development of CO<sub>2</sub> miscible tertiary plan for a major project
- Directed all reservoir and economic evaluations of prospects
- Maintained reserve reports
- Developed strategic plans for Engineering Department

**1976 - 1979**

***Atlantic Richfield Company***

***Senior Analytical and Operations Engineer (Midland, Texas)***

- Managed several company-operated waterfloods
- Determined preliminary economic potential of unitizing and installing a 10,000-acre New Mexico waterflood
- Monitored co-owner-operated waterfloods
- Worked with geologists to further develop gas reserves
- Processed farmout proposals and computed lease purchase prices
- Provided transient pressure analysis expertise

**1975 - 1976**

**1970-1972**

***Atlantic Richfield Company***

***Staff Research Engineer (Dallas, Texas)***

- Developed computer simulations to evaluate oil recovery processes

- Reviewed reservoir engineering and economic evaluation of development drilling prospects submitted by districts
- Organized and taught company schools in transient pressure analysis

***1972 - 1975***

***Mississippi State University***

***Assistant Professor of Petroleum Engineering***

- Taught graduate and undergraduate courses in petroleum engineering with special emphasis on reservoir engineering, enhanced oil recovery, transient pressure analysis, and petroleum economics
- Published four papers on transient pressure analysis

**TECHNICAL AND PROFESSIONAL SOCIETIES:**

- Society of Petroleum Engineers of AIME (SPE)
  - President, Society of Petroleum Engineers International, 2008
  - International Board of Directors, 2000-2003, 2005-2006
  - International Vice President – Finance, 2000-2003, 2005-2006
  - Chairman, Applied Technology Workshop on Net Pay Determination, 2000
  - Recipient, Reservoir Engineering Award, 1999
  - Distinguished Lecturer, 1993-1994
  - Elected Distinguished Member by Board of Directors, 1995
  - Steering Committee (1981), Program Chairman (1983), Program Committee (1985, 1987), General Chairman (1993), SPE Hydrocarbon Economics & Evaluation Symposium
  - Member, Engineering Registration Committee, 1996-1999
  - Member, Economics & Evaluation Committee, 1989-1992
  - Program Chairman, Dallas Chapter, Reservoir Engineering Study Group, 1989-1990
  - Member, SPE Distinguished Achievement Award for Petroleum Engineering Faculty

Committee, 1988-1990, 1994-1996

- Member, Society of Petroleum Engineers Distinguished Author Series Committee, 1987
- Recipient of Regional Service Award, 1987
- Chairman, Dallas Section Study Group on Economics and Management, 1986-1987
- Member, Reservoir Engineering Committee, 1983, 1984, 1985
- Member, National Petroleum Council's Miscible Displacement (CO<sub>2</sub> and N<sub>2</sub>) Enhanced Oil Recovery Committee, 1982-1983
- Member, National Officer Nominating Committee, 1981
- Member, Ad Hoc Long-Range Plan Review Committee, 1981
- Treasurer, Dallas Section of SPE, 1980
- Member, Editorial Review Committee, 1978
- Member, Formation Evaluation Committee (1973, 1974, 1975, and 1976), Chairman, 1977
- Society of Petroleum Evaluation Engineers (SPEE)
- Society of Professional Well Log Analysts (SPWLA)
- Mississippi State University Engineering Advisory Committee, 1989-1993
- Adjunct Professor of Petroleum Engineering, Texas A&M University, 2004, 2005, 2006

### **REGISTRATION:**

- Registered Professional Engineer, State of Texas

### **PUBLICATIONS:**

- Ramey, H.J., Jr., and Cobb, W.M.: "A General Pressure Buildup Theory for a Well in a Closed Drainage Area." Trans., AIME (1971) 1493.
- Cobb, W.M., Ramey, H.J., Jr., and Miller, F.G.: "Well-Test Analysis for Wells Producing Commingled Zones." Trans., AIME (1972) 27.

- Sawyer, D.N., Cobb, W.M., Stalkup, F.I., and Braun, P.H.: “Factorial Design Analysis of the Wet Combustion Drive.” Society of Petroleum Engineers Journal (February 1974) 25.
- Cobb, W.M., and Dowdle, W.L.: “A Simplified Method for Well Pressure Determination in Closed Rectangular Reservoirs.” J. Pet. Tech. (November 1973) 1305.
- Cobb, W.M.: “Interpreting Transient Pressure: Development and State of the Art.” Paper presented at AIChE, National Meeting and 7<sup>th</sup> Petro-Chemical and Refining Exposition, New Orleans, Louisiana, March 13-15, 1973.
- Raghaven, R., Topaloglu, H.N., Cobb, W.M. and Ramey, H.J., Jr.: “Well Test Analysis for Wells Producing from Two Commingled Zones of Unequal Thickness.” J. Pet. Tech. (September 1974) 1035.
- Dowdle, W.L., and Cobb, W.M.: “Static Formation Temperature from Well Logs—an Empirical Method.” J. Pet. Tech. (November 1975) 1326.
- Cobb, W.M., and Smith, J.T.: “An Investigation of Pressure-Buildup Tests in Bounded Reservoirs.” J. Pet. Tech. (August 1975) 991.
- Smith, J.T., and Cobb, W.M.: “Formation Evaluation by Transient Pressure Testing.” Presented at the Formation Evaluation Symposium of the Canadian Well Logging Society in Calgary, Canada, May 5-7, 1975. Log Analyst (June 1976) 16.
- Denson, A.H., Smith, J.T., and Cobb, W.M.: “Determining Well Drainage Pore Volume and Porosity from Pressure Buildup Tests.” Society of Petroleum Engineers Journal (August 1976) 209.
- Smith, J.T. and Cobb, W.M.: “Application of Transient Pressure Analysis to Wells with Hydraulically Induced Vertical Fractures.” Paper presented at 26<sup>th</sup> Meeting Southwestern Petroleum Short Course, Lubbock, Texas, April 1979 89.
- Todd, M.R., Cobb, W.M., and McCarter, E.D.: “CO<sub>2</sub> Flood Performance Evaluation for the Cornell Unit, Wasson San Andres Field.” J. Pet. Tech. (October 1982) 2271.
- Ely, J.W., Cobb, W.M., Elkins, B., Bell, D.D.: “Successful Propanol Fracturing of Ultra Deep Sour Gas Reservoir.” Presented at SPE Annual Meeting, San Antonio, Texas, October 8-11, 1989 SPE 19768, (621).
- Cobb, W.M., and Marek, F.J.: “Determination of Volumetric Sweep Efficiency in Mature Waterfloods Using Production Data.” Presented at SPE Annual Technical Conference and Exhibition, San Antonio, Texas, October 5-8, 1997 SPE 38902.
- Cobb, W.M., and Marek, F.J.: “Net Pay Determination for Primary and Waterflood Depletion Mechanisms.” Presented at 1998 SPE Annual Technical Conference and

Exhibition, New Orleans, Louisiana, September 27-30, 1998 SPE 48952.

- Saavedra, N.F., Peralta, R.C., Cobb, W.M., “Distribution of Injected Water by Using CGM Method: A Case History in Palogrande-Cebu Field.” Presented at SPE Latin American and Caribbean Petroleum Engineering Conference, Port-of-Spain, Trinidad, April 27-30, 2003 SPE 81042.

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