

CURRICULUM VITAE

WILLIAM CLAY KIMBRELL, P.E., C.P.G., P.G.

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REGISTRATION AND CERTIFICATION

Registered Professional Engineer-Petroleum Eng - October 1990, Louisiana No. 24273

Registered Professional Engineer Mississippi #14644,

Registered Professional Engineer Kentucky # 21425,

Registered Professional Engineer Arkansas #10285,

Registered Professional Engineer Alabama #23944

Registered Professional Engineer West Virginia #19577

American Institute of Professional Geologists - Certification No. CPG-10282

Registered Texas Professional Geoscientists - License No. 6605

Registered Texas Professional Engineer - #117793

EDUCATION

Bachelor of Science in Petroleum Engineering
August 1984, Louisiana State University

Bachelor of Science in Geology
Dec 1981, Louisiana State University

Master of Science in Petroleum Engineering,
May, 2002 - Louisiana State University

Incomplete PhD Work-Petroleum
Engineering June 2002

EXPERIENCE

August, 1989 - Present: Professional Petroleum Engineering and Geological Consultant
Kimbrell and Associates, LLC

Petroleum Engineering - Reservoir computer simulations, production engineering, completion engineering, blow-out issues, oil & gas operations, cost estimate preparations, reservoir engineering, lease abandonment, mineral appraisals, production strategies, oil and gas reserve analysis, statistical and risk analysis, regulatory compliance, expert testimony.

Petroleum Geology - Oil & gas prospect generation, geological interpretations, expert testimony, mineral appraisals, oil and gas reserve analysis, regulatory assistance, geostatistical and risk analysis, expert testimony and seismic interpretation.

Environmental Geology and Engineering - Oil and gas pollution (NOW & NORM) impact studies, environmental geology and engineering, groundwater studies, environmental site assessments, risk analysis, expert testimony, expert and regulatory assistance.

Operations—Rapiere Resources Company - Operations for both onshore and offshore fields and wells, Lafitte Field, West Delta Block 84 Field, West Delta Block 27 Field, Bay St. Elaine Field, Raceland Field, South Kraemer Field, Salt Field, Coochie Field, Iberia Field and wildcat areas. These operations include drilling (vertical and horizontal), re-entries, work-overs, flowing wells, pumping wells (unidraulic jet pumps, sucker-rod and gas lift), facility design, joint interest billing, preparation of authorization for expenditures, revenue distribution and all other aspects of day-to-day operations

January 1996 – May 2006, January 2010-Present: Adjunct Instructor - Louisiana State University, Dept. of Petroleum Engineering, Baton Rouge, LA 70893, (225) 578-5215
PETE 3053 - Subsurface Aspects of Petroleum Engineering

May 2003 – December 2007: Co-Principle Investigator- Louisiana State University, Dept. of Petroleum Engineering, Baton Rouge, LA 70893, (225) 578-5215
Louisiana State Board of Regents Support Fund Research Grant - *“Technology for Inactive Wells Valuation and Recovery of Bypassed Reserves from Water-drive Reservoirs in Louisiana.”*

August 1989 - August 1998: Research Associate V - Louisiana State University, Dept. of Petroleum Engineering, Baton Rouge, LA 70893, (225) 578-5215

Research efforts concentrated on identifying and producing bypassed reserves in both onshore and offshore fields in the Gulf of Mexico, involving advanced primary, secondary and tertiary recovery techniques. All fields studied were mature fields or reservoirs nearing abandonment. The research included aspects covering topics such as reservoir characterizations (log analysis, core analysis, production analysis, etc); geological interpretations (structural and isopachous mapping, structural and stratigraphic cross-sections, fence diagrams, etc.); reservoir engineering studies (PVT, volumetric, material balance, nodal analysis); 3-D seismic studies, computer simulation (BOAST III [mainframe and PC versions, black oil simulators], MISC [MISC4], PC Prophet, Workbench [commercial]; gas injection performance predictions; horizontal drilling design and modeling; attic oil recovery analysis; database management; forefront production techniques and several other innovative approaches to bringing new life to old, worn-out fields and reservoirs and unrecognized bypassed reserves.

- Primary Co-Principle Investigator of Department of Energy Grant Number DE-FG22-95BC14802 - “Improved Recovery From Gulf of Mexico Reservoirs”
- Co-Researcher and Co-Manager of Department of Energy Grant Number FG07-89ID12842 - “Development of Improved Methods for Locating Large Areas of Bypassed Oil in Louisiana”
- Co-Researcher and Project Manager of “Assist in the Recovery of Bypassed Oil From Reservoirs in the Gulf of Mexico,” for Department of Energy Contract Number DE-AC22-92BC14831

Also includes instruction of LSU Department of Petroleum Engineering courses “Subsurface Aspects of Petroleum Engineering” and “Introduction to Petroleum Engineering.”

July, 1987 - July, 1989: Supervising Engineer/Geologist - Pentagon Petroleum, Inc., 200 Lafayette St, Baton Rouge, LA70801

Responsibilities included reservoir studies and economic evaluations as well as generating exploratory prospects. Directly assisted owners in all negotiations concerning production and prospect transactions. Directly managed field personnel and coordinated research activities. Other activities included core analysis description, well site geology and engineering, prospect and sales packaging.

September, 1984 - July, 1987: Research Engineer III, Basin Research Institute, University Station, Box G, Baton Rouge, Louisiana, 10893.

Responsibilities included serving as a technical consultant to the Louisiana Coastal Management Division and the United States Corps of Engineers during their process of issuing Coastal Zone drilling permits in the form of technical and economic feasibility recommendations. This work was performed in order to reduce footage of dredging in coastal areas of Louisiana and to reduce other environmentally damaging activities without inhibiting the exploration and development of oil and gas reserves within the state by designing innovative and economical alternative approaches to gaining access to the various projects. Additionally, work was performed on other projects with primary efforts concerned with reservoir engineering studies and economics of various areas and producing zones within the Gulf Coast region. Also, field and reservoir studies of South Louisiana gas fields in order to evaluate them for suitability of production enhancement through the co-production of gas and water were performed.

January 1982 - August 1984: Graduate Assistant, Louisiana Geological Survey, University Station, Box G, Baton Rouge, Louisiana, 70893.

Research included well log correlations and interpretations, geological mapping, including structural, stratigraphic and isopachous interpretations, cross-sections, fence diagrams, reservoir volumetrics, and data research on several South Louisiana gas fields for a contract from the Gas Research Institute’s “Co-Production of Natural Gas and Water Program.”

ORGANIZATIONS

Baton Rouge Geological Society
American Association of Petroleum Geologists
Society of Petroleum Engineers
American Institute of Professional Geologists

Louisiana Engineering Society
Delta Tau Delta Fraternity Alumnus
National Groundwater Association

BOARDS AND COMMITTEES

Louisiana State Geologic Mapping Advisory Committee 2000-Present
Camelot Club Board of Governors 2013

PUBLICATIONS

- Kimbrell, W. C., E. Black IV, J. W. Kimbrell, T. V. Kimbrell, M. N. Lindsay, and C. Tolleson, 2013, Louisiana State Water Gulf of Mexico old field resurrection in the aftermath of the Macondo Disaster: Gulf Coast Association of Geological Societies Transactions, v. 63, p. 265–274.
- Kimbrell, W.C., “The Consideration and Applicability of Game Theory to Reserve Valuation,” Society of Petroleum Engineers, SPE-115541. Presented at the 2008 SPE Asia Pacific Oil and Gas Conference and Exhibition, Perth, Australia, 20-22 October, 2008.
- Kimbrell, W.C., Wojtanowicz, A.K., “Enhancing Inactive Well Recovery Potential – A Case History,” CIPC 2006-277. Presented at the Canadian International Petroleum Conference CIPC 2006, June 13-15, 2006
- Kimbrell, W.C., Wojtanowicz, A.K., Jarred R., “Candidate Acquisition of Downhole Water Sink Potential (CadWasp) –Initial Development of an Expert System for Identifying Candidates for Enhanced Recovery Technologies,” CIPC 2006-276. Presented at the Canadian International Petroleum Conference CIPC 2006, June 13-15, 2006.
- Kimbrell, W.C. and Wojtanowicz, A.J.: “West Delta Block 84 - Methodology and Analysis of a Previously Orphaned Field,” Presented at the Canadian International Petroleum Conference CIPC 2005, June 7-9, 2005. Published in the 8/2006 issue of the Canadian Journal of Petroleum Technology.
- Kimbrell, W.C. and Wojtanowicz A.J.: “Identifying Potential in Inactive Wells with Innovative Technology-Expanded Abstract,” Canadian International Petroleum Conference CIPC 2004: Because Technology Changes Everything - Conference Proceedings, June 8-10, 2004.
- Kimbrell, W.C., KEKF R1 Reservoir - West Delta Block 84, Plaquemines Parish, Louisiana - An Analysis and Confirmation of Bypassed Primary and Secondary Reserves, Masters Thesis, Louisiana State University, Department of Petroleum Engineering, May, 2002.
- Kimbrell, W.C., 1996, Produced Water in Louisiana - Analyzing the Magnitude of the Problem: The 6th Annual Produced Water Seminar Transactions, Houston, Texas, January, 1996.
- Tye R.S., Moslow T.F., Kimbrell W.C., Wheeler C.W., 1991, Lithostratigraphy and Production Characteristics of the Wilcox Group (Paleocene-Eocene) in Central Louisiana: The American Association of

Petroleum Geologists (AAPG) Bulletin, V. 75, No. 11, November 1991, p. 1675-1713.

- Kimbrell, W.C. and Bourgoyne, A.T., Prospecting for Bypassed Oil - A Presentation of a Case Study and Methodology in Lafitte Field, Louisiana: Interstate Oil Compact Commission Meeting, New Orleans, Louisiana, December 9-12, 1991.
- Kimbrell, W.C. and Bourgoyne, A.T., Gao, W., Pilot Oil Atlas for Louisiana, DOE/ID/12842-1, Distribution Category UC-122, Department of Energy Grant Number FG07-89ID12842, Louisiana State University, January 1993.
- Krutak P.R., Kimbrell W.C., 1991, Sparta B Sandstones (Eocene), Fardoche Field, Pointe Coupee Parish, Louisiana-A Compartmentalized, Barrier-Island Oil and Gas Reservoir: Gulf Coast Association of Geological Societies, Transactions of the 41st Annual Convention, V. XLI, October, 1991, p. 383-404.
- Kimbrell W.C., David B.D., McCulloh R.P., Wrighton F.M., 1985, The Search for Reservoirs Suitable for Enhanced Gas Recovery Through Co-Production in South Louisiana: The Interstate Oil Compact Commission Committee Bulletin, V. XXVII, No. 2, December, 1985, p. 33-50.
- Kimbrell, W.C., Case Study-Shallow Sands in Lafitte Field, Louisiana State University Workshop on Horizontal Drilling in Louisiana, New Orleans, Louisiana, June 5 1991.
- Diaz, D., Bassiouni, Z., Kimbrell, W.C., Wolcott, J., Screening Criteria for Application of Carbon Dioxide Miscible Displacement Waterflooded Reservoirs Containing Light Oil: Society of Petroleum Engineers, SPE 35341, 1996.
- Bourgoyne, A.T., Kimbrell, W.C., Final Report: Development of Improved Methods for Locating Large Areas of Bypassed Oil in Louisiana, for Department of Energy Grant Number DE-FG07-89ID12842, March 1993.
- Schenewerk, P., Kimbrell et al: Final Report Assist in the Recovery of Bypassed Oil From Reservoirs in the Gulf of Mexico, for Department of Energy Contract Number DE-AC22-92BC14831 December 31, 1995.
- Kimbrell, et al: Final Report Improved Recovery From Gulf of Mexico Reservoirs for Department of Energy Grant Number DE-FG22-95BC14802, January 13, 1997.
- Kimbrell, W.C.: Screening of Louisiana Oil Reservoirs for Application of Air Injection Processes presented at PTTC's "Economically Viable IOR Gas and Air Flooding Processes" workshop; Baton Rouge Louisiana, September 16, 1997.

EXPERT WITNESS

- Mallard Bay Drilling LLC vs. Halliburton, et al, U.S. District Court, Western District of Louisiana, Civil Action No. 97-1223, expert report only

- Joseph L. Skipper and Nancy P. Skipper vs. Citronelle Unit, et al, Circuit Court of Mobile County, Alabama, Civil Action No. CV-96-001989. Deposition, 2000
- Hazelwood Farm, Inc. vs. Liberty Oil and Gas Corp. et al, 27th JDC, Parish of St. Landry, No. 97-C-0602, Division “A”, Deposition, January 2001 and Testimony, September 2001
- Woodrow Cantrell vs. Ashland, Inc., Johnson Circuit Court, Civil No. 97-CI-422, Deposition, December 2000.
- Alcus Smith and Kay Smith vs. Chevron, U.S.A., Inc., et al., Civil Action No. 251-96-511CIV, Jackson, Mississippi, March 1999, Judge Graves. Testimony 1999.
- Nathan Carter et al vs. Chevron, U.S.A., Inc., et al, Brookhaven, Mississippi, Deposition and Testimony, 2001
- Stinson vs. Mobil Oil Corp.; U.S. District Court, Southern District, Mississippi, Western Division; Judge David C. Bramlett III, 8/12/97. Testimony 1997.
- Louisiana Office of Conservation - Commissioner’s formal hearings, 1987-present. Testimony.
- Mississippi Oil and Gas Board formal hearings, 1997-present. Testimony
- Audie Herrington vs. Texaco, Inc., JR Pounds, et al (Mississippi, JonesCounty) Depositions, 1994-1995.
- Ostheimer vs. Venvirotek (Terrebonne Parish, Louisiana) Deposition, 1998.
- Ramsay vs. Pennzoil, Yazoo County, Mississippi, Deposition, 1999
- Grefer vs. Exxon et al (Orleans Parish, Louisiana) Deposition (February 2001) and Testimony (May, 2001)
- Grover Smith vs A J & K Operating Co., Inc et al (Arkansas) - Deposition, June 2001
- Fairon Johnson and Sandra Johnson v. Equitable Resources, Inc. and Kentucky West Virginia Gas Company, LLC, Action No. 01-CI-00130, Knott Circuit Court, Commonwealth of Kentucky - Deposition and Testimony- 2002
- Victor Vegas, et al vs Miller Exploration, et al, Catahoula Parish, Louisiana
- Grover Smith et al vs Berg, Laney and Brown et al, Arkansas No. CV-2001-0341, Depositions
- Watts, et al v. Seagull Mid-South, Inc. Expert designation
- Ruby Thompson vs. Blue Flame Energy, Pike County, Kentucky, Expert designation
- Daniel Bertucci, et al v. Northrop Grumman Ship Systems Corp., et al CDC No. 2002-17551, “H” - Depositions 2003.
- The Estate of Alex Simoneaux, et al v Southern Natural Gas Co., et al., No 24,538, Div. “A,” JDC, Assumption Parish, LA. Deposition
- Allain et al v Shell et al Expert Report
- Eagle LakeEstates, LLC., et al, vs. Cabot Oil and Gas Corporation; United States District Court, Eastern District of Louisiana. Docket No. 04-0169 Expert Report
- Weyerhaeuser Company v. Petro-Hunt, LLC Civil Action NO. CV04-2177A, Judge Drell, Magistrate Judge Kirk. Deposition
- Harry Bourg Corporation v Exxon Mobil Corp et al, 32nd JDC, Parish of Terrebonne, State of Louisiana, Testimony
- Chandlervs Journey/Myers CA 05-CI-00105, State of Kentucky Expert Report
- Maloney Dufrene Company, Inc. et al vs Magnum Minerals, Inc. et al C.A. #91123, 17th JDC, Parish od Lafourche Expert Report

- Steve H. Crooks, et al. v. Placid Oil Company, et al, 28th JDC No. 33805 Expert designation
- Grand Lake Hunting Club, et al v. BP America Production Company, et al Docket No. 2002-4112 B, 12th Judicial District Court Expert designation
- Giauque, Terry v Clean Harbors Plaquemine, No. 60195 Div. A, 18th JDC, Parish of Iberville, State of Louisiana, Testimony
- Dore Energy vs. Exxon Mobil et al, Cameron Parish, Louisiana. Deposition/Trial
- Clough Engineering, Ltd. vs Origin Energy Resources, Ltd. Bas Gas Arbitration, Melbourne, Australia, Arbitration Testimony
- J Gerald Dupont v Metairie Energy et al, NO. 62687, "B"18TH JUDICIAL DIST. COURTPARISH OF IBERVILLE COMPANY, INC.: STATE OF LOUISIANA
- The Dore' Energy Corporation vs. No. CVO5-1657 The Prospective Investment & Trading Company, Ltd. And Atlantic & Gulf Petroleum Company
- North Texas Exploration LLC vs. New Tech Engineering LP, Pool Company Texas Ltd., et al. Expert designation
- Etienne Pellegal versus Lincoln Electric Company, et al case in Division L, Civil District Court for the Parish of Orleans, State of Louisiana, Civil Action No. 06-3684, Expert designation
- O&G Energy LLC and The Courtland Company LLC v Energy Management & Services Company, T. Dale Honn and Peter Grimes; No. 09-CI-00731, Floyd Circuit Court Div 2 Kentucky. Deposition 2010
- Marcus Broussard vs Chevron et al, Vermilion Parish, Louisiana, Expert Report, Depositions & Testimony
- David Broussard vs. Hilcorp et al, Vermilion Parish, Louisiana, Deposition
- Petro-Hunt, LLC vs United States Court of Federal Claims, No. 00-512 L, Expert Report
- Steve H. Crooks and Era Lea H. Crooks v Placid Oil Company et al, Parish of LaSalle, State of Louisiana, 28th Judicial District Court, No. 38147, Expert designation
- The Maryland Company, LLC v Exxon Mobil Corporation et al, Case No. 6:10-CV-1781, USDC, WDLA, Expert Report
- C.C. Abbitt Farms, et al vs Placid Oil Company, et al, 7th Judicial District Court, Catahoula Parish, Louisiana, Expert designation
- Financial Resources vs Hilcorp et al, Expert designation
- Higdon vs Petro-Hunt LLC et al, Expert designation
- IP Timberland et al vs. Petro-Hunt LLC et al, Expert designation
- Kinder Gas vs Petro-Hunt LLC et al, Expert designation
- Tabor vs Petro-Hunt LLC, Expert designation
- Tigner Farms vs Mosaic, Expert designation
- Cynthia Waller et al vs Chevron et al, Expert designation
- The Sweet Lake Land and Oil Company, LLC vs Exxon Mobil Corp, Civil Action No. CV09-01100, United States District Court, Western District of Louisiana, Lake Charles Division, Deposition
- Texaco Exploration & Production Inc vs Hilcorp Energy Co., Fifteenth Judicial District, State of Louisiana, Docket No. C-71298, Deposition

- Cause No. 096 238683 09; Alpha Energy Operating, LLC v Swann Oilfield Services, LP and Swan Oilfield Services Management LLC; 96th Judicial District Court, Tarrant County, Texas, Expert designation
- Jeffery Howard Nobles vs R.A. Campbell Company et al; Seventh Judicial District Court, Parish of Catahoula, Suit No. 24110, Expert designation.
- Spanish Lake Restoration, LLC v. Shell Oil Company, et al., Docket No. 69702, Div.D, 18th JDC, Parish of Iberville, State Of Louisiana, Retained Expert
- M. J. Farms, LTD vs No. 24,055 Exxon Mobil Corp, et al, Retained Expert
- Theodore S. Carmichael and Judy Chiasson Carmichael Versus Bass Enterprises Production Company, et al, Expert Report and Trial Testimony
- State of Louisiana and the Cameron Parish School Board Versus Aspect Energy, LLC, Azimuth Energy, LLC, Noble Energy, Inc. and Texas Petroleum Investment Company, 38th Judicial District Court for the Parish of Cameron, State of Louisiana, Docket No. 10-18673, Expert Report
- ConocoPhillips Company vs Texas Petroleum Investment Company, Harris County, Texas District Court, 113th Judicial District, Cause No. 2011-46437, Expert Report
- Warren Lester, Jr., et al v. Exxon Mobil Corporation, et al, Civil District Court for the Parish of Orleans, State of Louisiana, No. 02-19675, Division “N” Section 8, Expert Report
- ConocoPhillips Company v BP America Production Company et al, Harris County, Texas, 234th Judicial District, Cause No. 2012-32539, Expert Report
- Fallon Family, L.P. v Goodrich Petroleum Company et al, DeSoto Parish, Louisiana; 42nd Judicial District Court. Expert Report

REFERENCES

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