

Walter B. Fair, Jr., P. E.

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(713) 817-9042

SUMMARY

Over 32 years experience in petroleum engineering and computer applications in the oil and gas industry. Experience includes production and reservoir engineering as applied to field studies, project surveillance, property evaluation, and enhanced oil recovery. Fluent in Spanish.

EXPERIENCE

July 1975-August 1991 Shell Oil Company and Subsidiaries

During 16 years of employment by Shell, duties included the design of well completions, recompletions, and workovers, field and well surveillance, field operations supervision, engineering training, implementation of new sand control methods, evaluation and surveillance of onshore and offshore fields (including waterfloods, gas cycling projects, steam floods, caustic floods, and CO₂ floods), forecasting, reserve estimation, budget and reserve report preparation, economic evaluation, project justification, exploration support, development of well and reservoir modeling methods, and reservoir simulation.

Major accomplishments include the development of well test analysis procedures, several patents for enhanced recovery and well stimulation methods, development of methods for field scale simulation and evaluation of EOR processes and stress-sensitive reservoirs, implementation of novel sand control methods, and development of methods for evaluating the completion strength of US Gulf Coast wells.

September 1991-February 2000 Consultant Owner - ComPort Computing Co. Owner - Interamerican Petroleum Consultants

Consulting work was done on a variety of US and foreign oil and gas fields, including fields in the Ukraine, China, Mexico, and Venezuela. Major projects included property evaluation, training, and development of engineering software. Work included engineering evaluations, reservoir simulation, reserve estimation, production forecasting, preparation of sales/purchase packages, economic evaluations, and client presentations. Courses relating to reservoir and production engineering were taught (in English and Spanish) to employees of Indonesian, Mexican and Japanese companies.

Computer software projects included a system for real-time inspection of sucker rods, software for well test analysis and general reservoir engineering, project evaluation and cost estimating, knowledge-based expert systems, integrated engineering systems, as well as more general business and accounting applications in a variety of industries.

Major accomplishments include the presentation of several technical papers, development of improved methods for reservoir surveillance and well test analysis, reservoir model for landfill gas projects, and proprietary algorithms and software for engineering applications. The well testing software is marketed through SPE and is in use in Australia, Canada, Colombia, Germany, Great Britain, Indonesia, Israel, Japan, Mexico, Saudi Arabia, Venezuela, and throughout the US, as well as in courses at various universities worldwide.

Major software and consulting clients included Shell Oil Company, ICO Inc., Randall & Dewey, Inc., Technomation Systems, Inc., CGG American Services, and A. R. Fair, P. E. Subcontracting work was done indirectly for a variety of companies, including Amoco, Brown & Root, Chevron, Halliburton, Lagoven, Maraven, Mobil, Pemex, Petroleos de Venezuela, Phillips Petroleum, Oryx, and Unocal.

February 2000-January 2009 Senior Geoscientist Advisor CGG Americas, Inc./CGGVeritas

Work has been done on a variety of Venezuelan field studies for PDVSA in Maracaibo and Puerto La Cruz, as well as supervision of all engineering work done by CGG/Exgeo in Venezuela. Evaluations included both conventional engineering evaluation and numerical simulation. Simulation models have included a variety of fields ranging from light to heavy oils, up to 900 wells in a single model, multiple communicating reservoirs, unconsolidated and consolidated sandstones and fractured carbonates, most with in excess of 50 years history to match. Model construction and adjustment has required a close working relationship with engineering, geology, geophysics, petrophysics, geostatistics, and operations, as well as substantial client relations with PDVSA.

February 2009 - Present Consultant

In January 2009 I left CGGVeritas to expand my professional involvement in EOR, reservoir characterization and production optimization activities.

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EDUCATION

BS PEn 1973 The University of Texas at Austin

MS PEn 1976 The University of Texas at Austin

Thesis: "Prediction of Critical Temperatures of Multicomponent, Predominantly Hydrocarbon Mixtures"

OTHER

- Registered Professional Engineer in the State of Texas (#76129)
- U. S. Citizen (Legal resident of Venezuela)
- 1982 Cedric Ferguson Award recipient of the Society of Petroleum Engineers
- Distinguished Member of the Society of Petroleum Engineers
- Team won the 1995 MS Windows World Open - Best Windows Software (Energy Category)
- Served on various SPE committees
 - Technical Review Committee
 - Cedric Ferguson Award Committee
 - SPE Forum Series on Well Testing
 - Student Paper Contest - Graduate Division
 - Reservoir Engineering Technical Committee

PATENTS HELD

- *WELL TREATING PROCESS FOR CHEMICALLY HEATING AND MODIFYING A SUBTERRANEAN RESERVOIR*, US Patent No. 4,330,037 May 18, 1982 Edwin A. Richardson and Walter B. Fair, Jr., Shell Oil Company
- *CHEMICALLY-AIDED GAS CAP DRIVE*, US Patent No. 4,406,327 September 27, 1983 Walter B. Fair, Jr. and Edwin A. Richardson, Shell Oil Company

PUBLICATIONS

- Fair, Walter B. Jr., *Pressure Buildup Analysis With Wellbore Phase Redistribution*, SPE JOURNAL, April 1981.
- Fair, A. R., R. J. Maurer, and W. B. Fair, Jr., *A Reservoir Model For Landfill Gas Projects*, SPE 28638, New Orleans, September 1994.
- Fair, W. B. Jr., *A Statistical Approach To Material Balance Methods*, SPE 28629, New Orleans, September 1994.
- Brule, M. R., Walt. Fair, Jun Jiang, and Ron Sanvido, *A RAD Approach to Client/Server System Development*, SPE COMPUTER APPLICATIONS, October 1995.
- Fair, Walter B. Jr., *Generalization Of Wellbore Effects In Pressure Transient Analysis*, SPE FORMATION EVALUATION, June 1996.
- Fair, W. B. Jr., *An Improved Method for Pressure Buildup Analysis in Beam Pumped Wells*, Southwest Petroleum Short Course, Lubbock, Texas, April, 1998.
- Fair, Walter B. Jr., *Pressure Buildup Analysis With Acoustic Data in Beam-Pumped Wells*, SPE 49139, New Orleans, September 1998.
- Fair, Walter B. Jr., *Tropical Band Broadcasting in the Center of South America*, Popular Communications, February 2000.
- Sunit K. Addy, Walter B. Fair, Jr., Alfredo Mahr, Gwenaële Petit, Mauricio Torres, Felix Diaz, Jean-Louis Gelot, *Determining the Location of Remaining Oil Using Acoustic Impedance: Poza Rica Field, Mexico*, SEG, Dallas, 2003
- Francisco Guevara, Jose Castillo, Walter Fair, Jr., Robert Porjesz, *Impacting the bottom line of field performance - Joint reservoir studies in three Venezuelan oil fields*, The Leading Edge, SEG, Nov 2005.