

WILLIAM D. JACKSON (BILL), PE, PHD

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Garland TX

EDUCATION

Master of Science (M.S.) Energy Management University of Texas at Dallas	2021
Doctor of Philosophy (Ph.D.) in Economics University of Texas at Dallas	2020
Master in Business Administration (M.B.A.) Rutgers University at Camden	1991
Bachelor of Science (B.S.), Mechanical Engineering, Energy University of Notre Dame	1981

EXPERIENCE:

Jackson Energy Consulting, PLLC President	2021 – Present
Collin College Adjunct Professor, Economics	2022 – Present
Baker & O'Brien, Inc. Senior Consultant	2008 - 2021
CBI/Howe Baker Project Manager	2002 - 2008
Air Products and Chemicals Lead Project Engineer	1996 - 2002
Mobil Oil Corporation Project Engineer Planning Engineer Senior Project Engineer Mechanical Engineer	1989 - 1996
Sartomer Company, Inc. Project Engineer	1988 -1989
BOC/Airco Plant/Maintenance Engineer	1985 - 1988
United States Navy Lieutenant USS Plunger, SSN 595 Nuclear Submarine	1981 - 1985

PUBLICATIONS

<i>Tight-Oil Production Technology Effects on the U.S.</i> <i>Petroleum Industry's Vertical Integration (Dissertation)</i>	2020
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PROFESSIONAL CERTIFICATIONS

Registered Professional Engineer in Texas and Louisiana
Project Management Professional (PMP), Project Management Institute (PMI)
Certified Fire and Explosion Investigator (CFEI), National Association of Fire
Investigators, International (NAFI)

PROFESSIONAL ORGANIZATIONS

American Society of Mechanical Engineers (ASME)
Project Management Institute (PMI)
International Association for Energy Economists (IAEE)
National Society of Professional Engineers (NSPE)
National Association of Fire Investigators, International (NAFI)
Eagle Scout

SUMMARY OF EXPERIENCE

Following graduation with a Bachelor of Science degree in Mechanical Engineering in 1981, I served in the United States (U.S.) Navy eventually gaining the rank of Lieutenant. I completed the Navy's rigorous Nuclear Power Program and then served aboard the nuclear submarine USS Plunger (SSN 595), home ported in San Diego, California. I earned my "dolphins" as a qualified submariner and held a Top Secret SCI security clearance. My positions within the ship's company were Electrical Officer, First Lieutenant, and Sonar Officer at various times.

In 1985, I joined BOC/Airco as a Plant Engineer at their North American headquarters in Murray Hill, New Jersey, where I managed projects at various North American locations for their special gases division. My projects included work with cryogenic liquid helium systems, acetylene plants, and electronic gas handling systems. I also conducted feasibility studies for the introduction of new robotic gas-handling equipment. In addition, I served as the Maintenance Engineer at BOC's Riverton, New Jersey, facility.

I joined Sartomer Company, Inc. as a Project Engineer in 1988 at their West Chester, Pennsylvania, plant. I managed and executed several engineering and construction projects at this specialty chemicals manufacturer during this time.

In 1989, I joined Mobil Oil Corporation (Mobil). I became a Project Engineer at their Paulsboro, New Jersey, refinery, where I managed various refinery projects for the processing units at that location. I also participated in the planning and execution of refinery unit turnarounds. Upon completing my M.B.A., I became a Planning Engineer, responsible for long-range strategic planning coordination and analysis of the refinery's capital expenditures and capital appropriations.

In 1993, I moved to Mobil's Chalmette, Louisiana, location as a Senior Project Engineer. I managed and executed various refinery projects, including major refinery unit upgrades and an H₂ pipeline project with Air Products. Later I transferred to maintenance engineering, where I served as the area Mechanical Engineer for the sulfur-treating units, cokers, and crude units.

In 1996, I joined Air Products & Chemicals' (Air Products) Hydrocarbon Group as a Lead Project Engineer at their headquarters in Allentown, Pennsylvania. I managed and executed engineering, procurement, and construction (EPC) projects for chemical, natural gas, and oil companies utilizing Air Products' hydrocarbon separation technologies.

In 2002, I joined CBI/Howe Baker (CBI) as a Project Manager at their offices in Dallas, Texas, and Tyler, Texas, where I managed engineering, fabrication, and construction projects entailing complete refinery processing units for major and independent oil companies. Additionally, I managed several refinery unit front-end engineering and design (FEED) efforts.

In 2008, I joined Baker & O'Brien, Inc. as a senior consultant and started my independent consulting firm, Jackson Energy, in 2021. I completed my doctorate in economics and accompanying master's degree in energy management while a senior consultant and Baker & O'Brien.

Starting in 2022, I became an Adjunct Professor, Economics at Collin College.

REPRESENTATIVE CONSULTING EXPERIENCE

Engineering and Construction Disputes

Provided expert reports, depositions, and testimony on capital project management, engineering, and construction issues in various points of the energy supply chain: production, natural gas processing, pipelines, distribution pipelines, refineries, and chemical plants. Disputes concerned multiple issues, such as quality, schedule extensions, cost overruns, change orders, and supply agreements.

Lender's Engineer

Performed due diligence and project monitoring for major processing plant engineering and construction projects for international financial institutions. Work included technology assessment, capital investment evaluation, EPC contract review, facilities and agreements analysis, and capital expenditures review. Monitored the technical, cost, and schedule issues during the engineering and construction of the facilities. Once the asset was in operation, monitored ongoing finances, operations, and maintenance.

Due Diligence, Refinery, Terminal, and Pipeline Sales and Acquisitions

Provided expert due diligence reports concerning the operation, maintenance, and physical condition of refinery, oil terminal, and pipeline assets for potential buyers.

Casualties and Loss

Evaluated damage claims for causation and property damage for both claimants and insurance companies for claim resolution and subrogation. Cases included fires, explosions, flood damage, storage tank damage, equipment malfunctions, and operator error. Provided consultation and expert reports for refinery, chemical plant, and pipeline construction and repair costs.

Refinery, Chemical Plant, and Gas Well Accidents

Prepared technical expert reports for trial attorneys in defense of personnel injury accidents.

REPRESENTATIVE MAJOR AREAS OF EXPERIENCE

Project Management/EPC Contractor

Managed and executed capital oil and gas projects as an EPC Project Manager. Tasks included supervision of scope development, estimating, detailed engineering, procurement, fabrication, and construction. Managed various refinery processing unit projects for several major and independent oil companies.

Project Management/Owner

Managed and executed capital projects for a major oil company. Tasks included monitoring contract engineering, coordinating equipment and material procurement, and contracting and overseeing construction contractor execution. Projects included various refinery process units.

Energy Economics

Industrial organization and applied microeconomics in energy-related economics.

Contract Development and Administration

Participated in developing and agreeing of EPC contracts between owners and contractors from both aspects. Served as the primary company representative for post-contract issue resolution and coordination.

Mechanical Engineering

Practical experience as a mechanical, project, and maintenance engineer in processing plant environments. Experience in new construction, operation, failures, and maintenance of processing equipment found in refineries, chemical plants, and oil and gas production facilities and equipment. Engineering competence in thermodynamic and fluid flow theory, processing equipment, and piping design. Experience in engineering and technical codes and standards utilized in processing industries. A professionally licensed engineer in Texas and Louisiana.

Project/Refinery Engineering

Managed oil refinery projects within operating units and the planning and execution of refinery unit turnarounds. Served as Maintenance Engineer for coker, crude units, and sulfur-treating complexes. Led troubleshooting and root cause analysis of maintenance issues.

Planning Engineering

Experienced in long-range capital planning and capital expenditure development, analysis, and justification for U.S. refineries. Conducted analysis of maintenance budgeting and expenditures for areas of opportunity.

Project Development

Managed the scope development and estimate justification of proposed capital projects within an owner's organization and as an EPC Project Manager. Experienced in managing EPC FEED/front-end loading efforts for major and independent oil companies, foreign and domestic. Managed the development of operational simulation models and business feasibility studies.

Cost and Scheduling Engineering

Extensive experience in capital project cost and financial forecasting and presentation. Experience in developing project schedules and generally accepted project logic. Reviewed and approved complex project schedules as EPC Project Manager.