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**JOHN W. (JACK) BURMAN, PE**  
**Affiliate Director**

**SUMMARY**

Mr. Burman provides expert consulting services to industry users in areas of oil and gas development projects. His formal training is in mining and petroleum engineering, and his more than thirty years of experience has focused on project management, communication, leadership, team building and engineering skills in world class deepwater, shelf, and land oil and gas development projects. In addition to field operations management and project supervision, he has an extensive background in petroleum and mining engineering that encompasses reservoir, production, drilling, completion, intervention and facility operations, and mine survey, transport and environmental operations.



Mr. Burman has developed and applied innovative solutions throughout his career spanning oil and gas evaluation, production, and development operations for land, offshore, and deepwater areas. He has been successful in managing interfaces through all phases of well engineering, project planning and execution, teambuilding and effective communication. Projects have been consistently executed below budget and delivered on time, and well systems consistently exhibit a high degree of reliability and productivity.

Major accomplishments have included design, procurement and supervision of execution of ten sub-sea wells in world record water depth; engineering, procurement, planning and supervision of execution of the six wells completed on the Marco Polo Tension Leg Platform; design and supervision of execution of the world's most time efficient deepwater completion at Vioska Knoll 1003 #2 (water depth 4,858 ft.); design and supervision of successful high pressure sub-sea well intervention from a dynamic positioning vessel; and successful execution of a subsea T&A with tubing/casing communication requiring burning over parted lower crown plug using coiled tubing to gain wellbore access – an “industry first”.

Jack is a recognized industry expert in sand control design and implementation. He has published numerous peer reviewed papers and presented at numerous industry forums and conferences.



## EMPLOYMENT HISTORY

- 2017 to Present **Accumyn Consulting**, Associate Consultant
- 1999 to Present **Exploitation Technologies, LLC**, President
- 1998 to 1999 **Snyder Oil Corporation**, Vice President of Operations
- 1993 to 1998 **Newfield Exploration Company**, Production Engineer
- 1990 to 1993 **Conoco Inc.**, Senior Completions Engineer
- 1982 to 1990 **Chevron Inc.**, Lead Engineer
- 1979 to 1981 **Arch Mineral Corp.**, Senior Mining Engineer
- 1978 to 1979 **A. T. Massey Coal Company**, Resident Mining Engineer

## REPRESENTATIVE PAST PROJECTS AND CONSULTING ENGAGEMENTS

- **7/99 to present:** As president of Exploitation, LLC, provided various domestic and international operators project management and engineering services in multiple environments. Engagements have included planning, detailed engineering, procurement and rig execution for implementation of complex deepwater and shelf development projects involving deepwater record water depth Spar, TLP and Subsea and international deepwater oil and gas developments. Customers include Anadarko, Apache, Arena Energy, Bois D'Arc, BP/Vastar, Callon Petroleum, Cobalt International Energy, Devon Energy, EOG Trinidad, ERT/Talos, Furie Operating Alaska, Husky Oil, Legado Resources, Mariner Energy, Murphy Oil, Newfield Exploration, QRI, TAQA, Repsol, Whistler Energy II and W&T Offshore.
- Specific project examples include the following:
- Numerous 10k and 15k single and multiple well subsea and DVA developments, many utilizing multi-zone SMART technology.
- Project management of new drill, sidetrack, workover, intervention and T&A/P&A engineering, deepwater drill stem testing, well completion, field development optimization and planning, flow assurance, and procurement.
- Project manager and/or lead engineer for multiple subsea completions (24k ft. two zone SMART, 21k ft. two zone stack FP and 18k ft. single FP) and two challenging subsea well interventions: one P&A of producible well which was bent over to 15 degrees after host platform was toppled by hurricane, the other a T&A of a producible well with +6000 psi on tubing and casing. Both interventions involved developing and executing novel solutions.
- Designed, procured and supervised the rig execution of the Newfield "Fastball" (Vioska Knoll1003 #2; 4,858 ft. water depth) subsea completion in April and May, 2007.
- Responsible for engineering and executing all aspects of a ten well ultra-deepwater subsea gas completion program (Anadarko Independence Project) in 8,100-9,000 ft. water depth from the Deepwater Millennium drillship. Supervised rig operations and



coordinated activities with tree installation and subsea construction efforts in the project area.

- In 2004, completed design and execution of the six Anadarko Marco Polo TLP wells in which seventeen zones were completed with high productivity frac packs and fiber optic downhole instrumentation significantly under AFE.
- Provided operations management services for Arena Energy during an operations development program for two new drills, three sidetracks and three workovers. Coordinated the completion of all governmental requirements to “operate” in the Gulf of Mexico.
- Provided lead completion engineer services for the BP/Vastar Horn Mountain Spar Development. Responsibilities included sand face and up-hole completion design for producers and sea water injectors; flow assurance mitigation and downhole chemical injection design; riser and production system interface with wells; casing design to manage annular pressure build-up; gas lift design; and subsea wellhead cathodic protection.
- Designed the completion and provided operational support for the 100 MMCFD cased and perforated gravel packed gas well in Trinidad.
- Designed and procured drill stem testing procedures and processes for pre-salt carbonate formations offshore Angola; interfaced closely with drilling engineers during well (casing and BOP) design to streamline rig operations.
- Generated field development plans and proposed final platform locations and drilling/completion designs for Panyu 4/2 and 5/1, two major oil fields offshore China using horizontal and vertical wells equipped with electric submersible pumps and downhole sand control.
- **8/98 to 6/99:** As Vice president of Operations for Snyder oil Corporation – Southern Region, provided field and rig operations management for all offshore and land based Louisiana properties. Managed onshore fractured sandstone and pinnacle carbonate reef developments onshore, and managed 13 platforms offshore. Designed and installed sub-sea gas well completion and facilities on time and under budget.
- **7/93 to 8/98:** As Production Engineer for Newfield Exploration Company, responsible for management and engineering support for a field operational area in the Gulf of Mexico. Accountability included daily operations and budget; platform and facility design, installation, and relocation; subsea and platform well abandonment; artificial lift optimization; and remedial and workover operations. Also, responsible for the design and implementation of company-wide sand control well completions. The MMS “Safe” award was received in 1997 and 1998 for facilities in the area of responsibility. Successfully engineered and supervised first GoM subsea well P&A performed off DP Dive Vessel.
- **9/90 to 7/93:** As Senior Field Engineer for Conoco, Inc., responsibilities included supplying production, completion and remedial engineering, implementation supervision and consultation for Conoco/DuPont worldwide operations. Was author and instructor of various inhouse schools on drilling and completion engineering and operations. Arctic



experience included pioneering the successful application of tip screen-out fracturing and frac-packing techniques in shallow, heavy oil sands. Designed and implemented a first hybrid (two step horizontal lateral with upper gravel pack) horizontal multi-zone completion at Milne Point field in 1991. Developed novel techniques to safely and effectively recompleat severely pressure depleted wells requiring sand control in the Gulf of Mexico.

- **9/82 to 9/90:** As Lead Engineer for Chevron, Inc., reservoir, production, drilling, completion, and operations engineering experience was gained in various offshore and inland water fields. Supervised drilling, completion, production and various remedial operations. Developed numerous innovative solutions to improve gravel packed well productivity that were successfully implemented throughout Gulf of Mexico operations. As a member of a special projects team, successfully restored many recently acquired fields to profitability.
- **10/79 to 1/81:** As Senior Mining Engineer for Arch Mineral Corp., responsibilities included mining engineering support for a three million ton per year surface coal mine. Managed a survey crew and various environmental projects. Successfully computerized mine planning functions to simplify the process and improve flexibility in budget planning. Proposed and executed a plan to utilize idle draglines to construct haul road cutoff resulting in transportation expense savings.
- **7/78 to 10/79:** As Resident Mining Engineer for Massey Coal Company, managed a local field engineering office which supplied basic engineering services to local mines. Responsible for a two-man survey crew, mine permitting, environmental projects, and royalty allocation. Interfaced with state regulatory officials to file and obtain required permits. Designed and implemented a plan to connect two mines underground resulting in transportation expense savings.

## **EDUCATION, CERTIFICATIONS AND HONORS**

- Master of Science, Petroleum Engineering, Virginia Polytechnic Institute, 1982
- Bachelor of Science, Mining Engineering, University of Wyoming, 1978
- Registered Professional Engineer, Louisiana, 1988
- Drilling and Completion of the Year Award, Society of Petroleum Engineers, Gulf Coast Region, 2007

## **MEMBERSHIPS**

Member of Technical Program Committee and Presenter at numerous Society of Petroleum Engineering Forums, ATW's, ITW's and Workshops



## INDUSTRY PUBLICATIONS AND CONFERENCE PARTICIPATION

- “Low Stress Connection Design versus Environmental Cracking in Corrosive Well Service Conditions”, C2012-0001593, NACE 2012.
- “Predicting Wellbore Dynamic-Shock Loads Prior to Perforating”, SPE 14059, April, 2011.
- “Anadarko Independence Project Completion Campaign: Executing the Plan”, SPE 110110, November, 2007.
- “Marco Polo Tension Leg Platform: Deepwater Completion Performance”, SPE Drilling and Completion, September 2007, pp 258-270 (SPE 95331-PA).
- “Long Intelligent Completion Assemblies Save Rig Time”, Oil and Gas Journal, April 23, 2007, pages 57-16.
- “Design Considerations for Interventionless, Commingled Multizone Selective Sand-Control Deepwater Completions”, SPE 95598, October, 2005.
- “Managing Deepwater Flow Assurance: Unique Riser Design Allows Dual Annuli Thermal Insulating Fluid Installation”, SPE 96123, October, 2005.
- “Installation and Application of Permanent Downhole Optical Pressure/Temperature Gauges and Distributed Temperature Sensing in Producing Deepwater Wells at Marco Polo”, SPE 95798, October, 2005.
- “Marco Polo Deepwater TLP: Completion Implementation and Performance”, SPE 95331, October, 2005.
- “Influence of Field Development and Flow Assurance Issues on Well Completion Design at Marco Polo Field”, OTC 16642, May 2004.
- “New Safety Solution”, Hart’s E&P, May 2004.
- “A Rational Approach to Evaluating Tension and Installation Requirements for Deepwater Dry Tree Risers and Its Application to BP Horn Mountain Spar Risers”, Deep Offshore Technology Conference, 2002.
- “Effective BTEX Emission Control Techniques to Enhance Hydrocarbon Recovery and Protect Employees”, 1999 GRI Gas Industry Air Toxics Conference, May 1999.
- “Eliminate Formation Damage Caused by High Density Completion Fluid – Crude Oil Emulsion”, SPE Paper 39444, February 1998.
- “Foam-Diverting Technique Improved Sandstone Acid Jobs”, World Oil, November 1987.
- “Foam as a Diverting Technique for Matrix Sandstone Stimulation,” SPE Paper 15575, October 1986.