

Danny A. Watson, P.E.

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Essence

Professional engineer with extensive experience characterizing the productive potential of oil and gas assets as well as optimizing operations to maximize system efficiency and economic return. Strong ability to juxtapose the theoretical physics of subsurface flow with empirical information at surface. Expert technical prowess balanced by excellent strategic communication skills.

Expertise

Reserves

- Coordinated all aspects of SEC reserve reporting while serving as primary contact with independent reserve auditors for Fortune 500 exploration and production company (*proved reserves increased each year during tenure*)
- Directed all engineering tasks related to bank borrowing base redeterminations and presented results during bank syndicate meetings for publicly traded E&P company (*increased company's revolver to record \$1.4 billion*)
- Optimized development spacing for Appalachian unconventional shale play using Rate-Transient Analysis techniques (*all materials timestamped 2014-2017 – multiple companies began adopting spacing strategy in 2021*)
- Performed various reservoir analyses to forecast production for guidance for publicly traded Fortune 500 E&P company
- Oversaw engineering-related aspects of \$1.85 billion SCOOP acquisition
- Technical advisor for data room analysis and discussions across multiple US domestic oil and gas plays
- Technical advisor to regional bank for reserves-based lending services

Operations

- Analyzed producing wells to determine onset of liquid loading via critical rate analysis and developed schedules to preempt production losses via changes in wellbore configuration and/or surface facilities
- Optimized flow in producing assets utilizing plunger lift, gas lift, and positive displacement pump technologies (*both high-pressure, high-GOR wet gas producing wells as well as low-pressure legacy wells with a wide range of fluid compositions*)
- Gathered and estimated costs and generated AFEs for construction, drilling, completion, initial production, and artificial lift installations
- Coordinated drilling and fracturing schedules with team members from land, regulatory, geology, drilling, and operations
- Conducted on-site field visits to ensure proper execution of hydraulic fracturing procedures, facility installations, and artificial lift optimization
- Conducted route reviews with field team members to discuss all operated wells on an individual-well basis
- Designed and executed well completions to access and produce behind-pipe hydrocarbons in existing wellbores, allowing low-cost recovery of previously unproduced oil and natural gas liquids
- Conducted on-site field visits to ensure proper execution of hydraulic fracturing procedures, facility installations, and artificial lift optimization
- Performed economic feasibility analysis on potential well-specific projects, including installation of tubing, plunger lift systems, pumping units, chemical injection systems, etc.
- Oversaw site activities for U.S. Department of Energy funded carbon sequestration project in Russell County, Virginia.

Legal

- Corporate witness for Gulfport Energy | *Neuhart v. Transatlantic Energy Corp.*
- Expert witness for Gulfport Energy represented by Steptoe & Johnson PLLC | *Ray Norris, et al. v. Beck Energy Corporation, et al.*
- Expert witness for Rice Drilling D LLC represented by Steptoe & Johnson PLLC | *Chester R. Kemp, Trustee, et al. v. Atty. Nils Peter Johnson, Trustee, et al. v. Gulfport Appalachia LLC, et al.*
- Expert witness for Rice Drilling D LLC represented by Steptoe & Johnson PLLC | *Mingo Creek Minerals, LLC v. Rice Drilling, D, LLC, EQT Production Company, & Marvin H. and Betty Raber*
- Expert witness for Sand Creek Oil and Gas, LLC represented by Jones Walker, LLP | *Sand Creek Oil and Gas, LLC, et al. v. Express Oil and Gas, LLC, et. al.*
- Expert witness for CNX Gas Company, LLC represented by Dickie, McCamey, & Chilcote, P.C. | *CNX Gas Company v. Sean Cassidy, Esquire; Cassidy, Kotjarapoglus, & Pohland, P.C.; Cassidy, Kotjarapoglus, & Pohland, LLC; & Sean Cassidy & Associates, P.C.*

- Expert witness for CNX Gas Company, LLC represented by Dickie, McCamey, & Chilcote, P.C. | CNX Resources Corporation vs. Enventure Global Technologies and Plymouth Tube Company vs. Tube Supply
- Expert witness for Rice Drilling D, LLC represented by Kirkland & Ellis LLP | Tera II, LLC, et al. v Rice Drilling D, LLC, et al.
- Expert witness for Anschutz Exploration Corporation represented by Womble Bond Dickinson, LLP | Anschutz Exploration Corporation v Morning Gun Exploration, LLC and Paul J. Flatley.
- Expert witness for Upland Exploration Oklahoma represented by The Norris Firm PC | Upland Exploration Oklahoma, LLC, et al. v. Mewbourne Oil Company.
- Expert witness for EQT TGHL Exploration LLC represented by Kirkland & Ellis LLP | Ridgetop Royalties, LLC v. EQT TGHL Exploration LLC, et al.
- Expert witness for Rice Drilling D, LLC represented by Kirkland & Ellis LLP | Tera, LLC v. Rice Drilling D, LLC, et al.
- Expert witness for Antero Resources Corporation represented by Steptoe & Johnson PLLC | Perry B. Gains v. Antero Resources Corporation
- Expert witness for Rice Drilling D, LLC represented by Kirkland & Ellis LLP | Honey Crest Acres, LLC v. Rice Drilling D, LLC, et al.
- Expert witness for SMS Energy, LLC and Rice Drilling D, LLC represented by Oliva Gibbs PLLC and Steptoe & Johnson PLLC | Bounty Minerals, LLC, v. SMS Energy, LLC, et al.
- Expert witness for multiple clients in various state regulatory hearings (called as witness approximately 40 times in Ohio and Oklahoma)

Education

B.S. Petroleum & Natural Gas Engineering

West Virginia University, Morgantown, WV
December 2008

Professional Registration

Registered Professional Engineer - OK 28494

Professional Memberships

Society of Petroleum Engineers

Society of Petroleum Evaluation Engineers

Vistage Worldwide (2019-2023)

Development Courses

Emerging Energy Leaders, OSU Center for Executive & Professional Development (Fall 2015)

Mitigating Bias, Blindness, and Illusion in E&P Decision Making, Rose & Associates (November 2017)

Publications & Presentations

"Value-based Lawyering," presented at the Energy Mineral Law Annual Institute, Nashville, TN, June 2018.

"Early-Time Empirical Results of Managed-Pressure Production from Retrograde Condensate Wells," presented at the 2015 SPE Production & Reservoir Performance Through Pressure Management workshop, Dallas, TX, April 2015.

"Economic Analysis of Coalbed Methane Projects," presented at the 25th annual North American Coalbed Methane Forum, Canonsburg, PA, April 2010. *Note: Content from paper is featured in [Coal Bed Methane: From Prospect to Pipeline](#), Thakur et al, 2015 Elsevier Science and Technology*

"A Comparison of Coalbed Methane Drilling Practices in the Southern Shanxi Province, China, through Advanced Reservoir Modeling," presented at the 2nd annual Methane to Markets Exposition, New Delhi, India, March 2010.

"Marcellus Shale," presented at the Society of Petroleum Engineers Meeting, Paintsville, KY, September 2009.

Software Proficiencies

ARIES, ComboCurve, OGRE, IHS Harmony Suite, MS Office, Visio, Total Well Management, AFEMS, AFE Navigator, WellView, WellEZ, FracView, Fielding Systems, Cygnet, Carte, Workflow, Spotfire