

RYAN P. KELLOGG

Email: rpkellogg@gmail.com

Website: www.ryanpkellogg.com

LinkedIn: www.linkedin.com/in/ryanpkellogg

Work Experience (Energy)

Director of Engineering, 04/2021 - Present

Black Knight Energy LLC

27200 Tourney Road, Suite 275, Santa Clarita, CA 91355

Role Description: Collaboratively led engineering and financial analysis of oil and gas assets valued up to \$4 billion in the US Lower 48, working with private equity sponsor, Kayne Anderson, to make sound investment decisions.

Duties, Accomplishments and Related Skills:

- Conducted detailed engineering, regulatory, and economic analysis across multiple oil and gas basins as part of 30+ bid processes on assets
- Developed engineering and economic models to assess unconventional development performance in the Permian, DJ, and Uinta Basins and feed into Aries model evaluations
- Conducted engineering and financial analysis for U.S. Gulf Coast oil and gas assets factoring in carbon sequestration and EOR 45Q credits from Inflation Reduction Act (IRA).
- Integrated regulatory, contractual, and engineering data into comprehensive, bottoms-up assessments of Asset Retirement Obligations (ARO) for large conventional assets in the Permian's Central Basin Platform and California's San Joaquin Basin
- Responsible for presenting technical analysis for all bid processes to Kayne Anderson's Energy Fund executives

PSC Assets Manager, 08/2019 - 04/2021

California Resources Corporation

1 World Trade Center, Suite 1500, Long Beach, CA 90802

Role Description: Headed up company-wide business development efforts to integrate renewable energy sources into existing oil and gas operations. In addition, served as liaison for government partners, the City of Long Beach (COLB) and CA State Lands Commission (SLC), in the operation of CRC's production sharing contract areas in the Los Angeles Basin.

Duties, Accomplishments and Related Skills:

- Originated and developed new business opportunities for CRC's geothermal and subsurface energy storage applications and presented opportunities to CFO.
- Collaborated closely with renewable energy companies, academia, and state/local governments to advance renewable applications at CRC's operating areas by applying to federal/state grants, developing regulatory and incentive policies based on innovative engineering and economic analysis, and pilot design and execution.
- Developed integrated engineering and economic model for innovative gravity-based energy storage technology to be used in idle wellbores. Analysis resulted in approval for 50 kW pilot project from City of Long Beach municipal leadership.

- Directed cross-functional team in creation of detailed technical reports for Lawrence Livermore National Laboratory and California Geologic Energy Management Division on key regulatory issues for high-level decision makers.
- Provided engineering and economic modeling support for Purchase Power Agreement (PPA) deal structure for 40+ MW of solar installation to support CRC operations in the Los Angeles and San Joaquin Basins.
- Led monthly review meetings and presentations with management and executive teams from CRC, COLB, and SLC to review profit and loss statements for production sharing contract areas (Annually: \$250 million revenue, \$200 million in capital and operating costs in 2020).
- Received approval from COLB municipal leadership for first solar installation for use in oil field operations in the LA Basin.

Subsurface Manager, 10/2014 - 08/2019

California Resources Corporation

1 World Trade Center, Suite 1500, Long Beach, CA 90802

Role Description: Led asset development department of 15 engineers, geoscientists, and technicians to identify and execute oil and gas drilling and workovers based on detailed economic analysis, deliver on financial returns for capital investments, and manage regulatory requirements in the Los Angeles Basin.

Duties, Accomplishments and Related Skills:

- Responsible for economic evaluation and capital stewardship of 85 development drill wells (\$120 million) and 75 capital workovers (\$25 million) over five-year period. Delivered an average IRR on capital investments of ~30%.
- Presented proposed capital investments on an annual basis to executive management based on a detailed assessment of economic returns and project risk.
- Coordinated extensive evaluation of waterflood injection practices in the Wilmington Field with SMEs, municipal leaders, and academic researchers to assess safety for underground drinking water sources for California regulatory agency. Research findings were captured in peer reviewed publication and developed new geologic understanding of unconsolidated sandstone formations.
- Initiated and led company-wide data science program that grew into a 10-person team reporting directly to the CEO. In first 18 months, team delivered machine learning models which generated \$500,000 per year in cost reduction and 80% reduction in manhours required for job selection. Results from project were documented and presented in industry conference proceedings.
- Served on steering committee that successfully reduced OPEX by \$30 million/year (~10%) for the LA Basin assets.
- Formulated and executed plan to reduce electric usage in waterflood operation through an integrated physical model of the subsurface and operational economics to evaluate injection effectiveness. Results were documented and presented in leading industry conference and resulted in ~1 MW reduction in electrical usage and ~\$800,000/year in savings.

FP&A Planning Manager, 01/2014 - 09/2014

Occidental Petroleum Company

111 West Ocean Blvd., Long Beach, CA 90802

Role Description: Led 5-person planning department for Southern California, reporting directly to executive management on P&L for \$500 million operations budget and \$400 million capital investment program.

Duties, Accomplishments and Related Skills:

- Conducted economic analysis to evaluate BEA price indices for contractual negotiations with production sharing agreement partners in the State of California and City of Long Beach. Analysis resulted in annual cost savings of ~\$300,000 per year.
- Supported communication and organizational transition during spin-off of California operations.

FP&A Planning Advisor, 01/2011 - 12/2013

Occidental Petroleum Company

111 West Ocean Blvd., Long Beach, CA 90802

Role Description: Planning advisor responsible for project economic analysis and financial reporting to support oil and gas operations in the Los Angeles Basin.

Duties, Accomplishments and Related Skills:

- Responsible for analyzing and reporting variances in \$350 million annual budget for Wilmington waterflood development to management leadership team and preparing program funding requests for annual capital allocation process to Corporate headquarters.
- Coordinated post-audit of \$150 million development program and recommended actions to optimize portfolio performance. Applied efficient frontier theory to recommend a change in mix of development projects to maximize investment returns given organizational risk tolerance.
- Constructed integrated finance models for Long Beach asset for monthly cost reporting, budgeting, and forecasting. Model was praised for thoroughness and ease of use and became the standard tool for business unit decision making.

Senior Reservoir Engineer, 10/2007 - 09/2008

Royal Dutch Shell

150 North Dairy Ashford Road, Houston, TX 77079

Role Description: Responsible for developing 3D physical models of the geological subsurface to assess economic feasibility of \$3.5 billion enhanced oil recovery (EOR) project in Brunei

Duties, Accomplishments and Related Skills:

- Coordinated multidisciplinary team in carrying out value of information (VOI) analysis to categorize and assess project uncertainties for \$250 million enhanced oil recovery (EOR) pilot investment. This economic analysis resulted in a CAPEX savings of \$75 million compared to original plan.
- Led project team located in US and Brunei in identification and management of project risks. Risk managers were assigned roles and their performance was assessed and tracked on a quarterly basis, resulting in 25% fewer high risk indicators between Q1 and Q2 2008.

Reservoir Engineer, 01/2007-09/2007

Royal Dutch Shell

31 Ogunu Road, Ekured Itsekiri

Warri, Delta, Nigeria

Role Description: Responsible for developing 3D physical models of the geological subsurface to assess economic feasibility of \$1.2 billion project to commercialize natural gas in the Niger Delta.

Duties, Accomplishments and Related Skills:

- Instituted plan in a challenging work environment to salvage and history match 30 forecast models for use in evaluating a \$1.2 billion project to commercialize natural gas in Nigeria. Efforts saved \$5 million through improved operational efficiencies.
- Communicated company guidelines on reservoir engineering best practices to junior engineering staff and mentored two engineers-in-training in the delivery of projects that added 3,000 bbl of additional oil production per day.

Capacity Planner, 10/2002 - 12/2006

Royal Dutch Shell
 Schepersmaat 2
 Assen, Drenthe Netherlands

Role Description: Worked as reservoir analyst to advise management and external shareholders (Dutch government, JV partner-ExxonMobil) on the necessity and timing of investments for the Groningen natural gas field (largest in Western Europe) based on projected EU market demand.

Duties, Accomplishments and Related Skills:

- Optimized scope and configuration of €150 million compressor project based on net present value and internal rate of return sensitivity analysis. Results led to accelerated reserves production and added €23 million in project value compared to original plan.

Work Experience (Consulting):

Sr. Energy Consultant, 09/2023 - Present

Econometrica, Inc.
 7475 Wisconsin Ave # 1000, Bethesda, MD

Role Description: Provide subject matter expertise on proposed federal rulemaking via the Regulatory Impact Analysis (RIA) process for the Department of the Interior's Bureau of Safety and Environmental Enforcement (BSEE)

Duties, Accomplishments and Related Skills:

- Assessed economic impact of proposed removal of idle oil and gas pipelines from US Outer Continental Shelf as part of Regulatory Impact Analysis for proposed changes to 30 CFR Part 2250 (RIN 1014-AA51)
- Built GIS model of Gulf of Mexico pipeline network to assess potential interference with alternative use applications for offshore wind and sediment mining
- Drafted detailed technical memo to support RIA on Oil and Gas Operations for Exploratory drilling in the Arctic OCS—incorporating changes in White House Executive orders, market conditions, and operator activity from 2020-2025.

Domain Expert Consultant, 05/2025-Present

Mercor Intelligence
 55 2nd Street, Suite 2600, San Francisco, CA

Role Description: Provide subject matter expertise on financial analysis and investment in energy sector to improve LLM models for top AI labs

Teaching Experience

Adjunct Assistant Professor, 02/2025-Present

University of Maryland-Global Campus, Department of Finance and Economics

Courses taught: ECON 330: Business and Economics of Sustainability

Guest Lecturer, 01/2024

National Defense University, Washington, DC

Teaching Assistant/Instructor, 09/2008-06/2010

University of California Los Angeles, Los Angeles, CA

Instructor, 06/2010-08/2010

Kaplan, Seoul, South Korea

Education

UCLA Anderson School of Management, Los Angeles, CA

Master's degree (MBA): 6 /2010

Major: Finance and Strategy **Honors:** *Cum Laude*

North Carolina State University Raleigh, NC

Bachelor of Science degree: 5 /2002

Major: Chemical Engineering **Minor:** Economics

Honors: *Summa Cum Laude*, Valedictorian

North Carolina State University Raleigh, NC United States

Bachelor of Arts degree: 5 /2002

Major: Multidisciplinary Studies (Business and Politics in NE Asia)

Honors: *Summa Cum Laude*, Valedictorian

Study Abroad: Yonsei University, Seoul, Korea

Academic Publications

Kellogg, R., & Mercier, D. (2020). *Empirical Evidence Demonstrating Injection Containment and Absence of Injection Fracturing, Wilmington Oil Field Case Study*. Society of Petroleum Engineers.195282-PA.

Kwong, R. R., Kellogg, R., Thiele, M. R., & Simmons, D. M. (2019). *Improving Water Efficiency in the Wilmington Field Using Streamline-Based Surveillance*. Society of Petroleum Engineers. 195372-MS

Kellogg, R., Chessum, W., and Kwong, R. (2018). *Machine Learning Application for Wellbore Damage Removal in the Wilmington Field*. Society of Petroleum Engineers. 190037-MS

Zeithammer, R., & Kellogg, R. (2013). *The Hesitant "Hai Gui": Return-Migration Preferences of U.S.-Educated Chinese Scientists and Engineers*. Journal of Marketing Research, 50(5), 644-663.

Kellogg, R. P. (2012). *China's brain gain?: Attitudes and future plans of overseas Chinese students in the US*. Journal of Chinese Overseas, 8(1), 83-104.

Working Paper

Kellogg, R. P. (2025). *Energy Wars: Measuring Relative Geopolitical Power Between the U.S. and China in the Energy Sector*. Accepted at 2025 APSA Annual Meeting in Vancouver, Canada.

Media

Op-eds and Commentary

Kellogg, R.P. (2025, June 2). *Don't Close the Door on Chinese Talent. Ending Visas Will Hurt America More Than It Hurts China*. US News and World Report. <https://www.usnews.com/opinion/articles/2025-06-02/ai-student-chinese-china-visas>

Kellogg, R. P. (2024, October 16). *A pragmatic energy policy Kamala Harris could support*. Pittsburgh Post-Gazette. <https://www.post-gazette.com/opinion/guest-columns/2024/10/16/kamala-harris-energy-policy-climate-change-lng-coal-fracking-pennsylvania/stories/202410160006>

Kellogg, R. P. and D. Brunnert (2024, April 26). *The 'Trump Policy Bible' for America's energy future will undermine that future*. Pittsburgh Post-Gazette. <https://www.post-gazette.com/opinion/guest-columns/2024/04/26/heritage-foundation-2025-mandate-oil-gas-climate-change-co2/stories/202404260006>

Kellogg, R. P. and A. Kellogg (2023, January 31). *Don't drive away smart students*. War on the Rocks. <https://warontherocks.com/2023/01/dont-drive-away-smart-students/>

Kellogg, R. P. and D. Brunnert (2022, August 12). *Reviving the Petroleum Administration for War: A case for government-industry partnership*. War on the Rocks. <https://warontherocks.com/2022/08/reviving-the-petroleum-administration-for-war-a-case-for-government-industry-partnership/>

Featured In

Nature: Van Noorden, Richard. (2012). Global mobility: Science on the move. *Nature* (London), 490(7420), 326–329. <https://doi.org/10.1038/490326a>

Yahoo Finance: Kranz, M. (2022, March 3). *The case for a government oil company in the U.S.* Yahoo Finance. <https://finance.yahoo.com/news/the-case-for-a-government-oil-company-214203580.html>

U.S. Congress: U.S.-China Economic and Security Review Commission. (2021, March 19). Hearing on U.S.-China Relations in 2021: Emerging Risks. https://www.uscc.gov/sites/default/files/2021-03/March_19_2021_Hearing_Transcript.pdf

Podcasts and Interviews

Co-Host for Kellogg's Global Politics (2021-Present)

A podcast exploring the intersection of international affairs, energy policy, and global security. New episodes feature expert interviews and discussions on topics ranging from U.S.-China relations to the future of global energy governance. <https://www.kelloggsglobalpolitics.com/>

Guest on The Global Gambit with Pyotr Kurzin (2024, September 29). How China is Changing the Ukraine War. YouTube <https://www.youtube.com/watch?v=hFWcI2bri80>

Additional Information:

- Awards: Phi Beta Kappa, NCSU Caldwell Scholarship Recipient, Eagle Scout
- Data Science/Statistics: R, Python, STATA, Crystal Ball
- Other Skills: Excel VBA, SQL, Office Suite, Adobe Photoshop
- Memberships: SPE (Officer for National Capital Section); APSA