



## CHRISTIAN J. VANDERHOEF, P.E.

### Qualifications

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Registered Professional Engineer experienced in oil and gas regulatory compliance, underground injection control, expert witness testimony, pipeline design, hydraulic simulations, environmental engineering, and civil engineering.

### Education

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- B.S., Chemical Engineering, University of Wyoming, 2003

### Professional Certifications

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- Registered Professional Engineer (Chemical)
  - State of Wyoming #12597

### Professional Memberships

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- American Institute of Chemical Engineers (AIChE)
- Society of Petroleum Evaluation Engineers (SPEE)
- Society of Petroleum Engineers (SPE)
- Wyoming Geological Association (WGA)

### Professional Career

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Gene R. George & Associates, Inc. 2011-Current

#### Chemical Engineer

- Experienced in Regulatory Compliance for the Wyoming Oil and Gas Conservation Commission (WOGCC), Wyoming Department of Environmental Quality (WDEQ), and United States Environmental Protection Agency (USEPA).
- Provide expert witness testimony to the WOGCC.
- Develop hydraulics models for injection and production piping for tertiary recovery using dense phase CO<sub>2</sub>.
- Design metering facility for the custody transfer of dense phase CO<sub>2</sub>.
- Prepare permit applications for injection wells, SWPPPs, WYPDES, and oil field containment structures.
- Provide drainage areas and EUR calculations from reservoir engineering analysis.

Pilch Engineering 2009-2011

#### Environmental Engineer

- Provided engineering support and design for several municipal solid waste landfill expansions projects.
- Operated and maintained numerous groundwater remediation sites.

Pearl Field Services 2007-2009

#### Chemical Engineer

- Project manager and designer of 50mi dense phase CO<sub>2</sub> pipeline. Designed metering facility for custody transfer. Developed multiple hydraulic models for CO<sub>2</sub> transmission. Provided bid documents, cost estimates, and procurement for acquisition of materials.
- Design roads, pads, pits, and reservoirs for CBM production with AutoCAD Civil 3D.

- Provided watershed analysis and culvert sizing.

Mentock Engineering  
Civil Engineer

2003-2007

- Design subdivision, roads, and utility infrastructures with AutoCAD Civil 3D.
- Engineering inspection, field and site surveys, topographic maps, and site plan designs.

#### Continuing Education

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- Reservoir Engineering, Petroleum Institute for Continuing Education, 2006
- Gas Conditioning and Processing, JM Campbell, 2007
- VMGSim, Virtual Materials Group, 2007
- Winflow, Gregg Engineering, 2008
- Production Forecasts and Reserves Estimates in Unconventional Resources, SPE Join Conference, Denver, CO, 2008
- OSHA 29 CFR 1910.120 (40-Hour Course), 2010
- Basic Well Log Interpretation, PTTC Rockies, Golden, CO, 2015
- Unconventional Reserves Valuations, SPE Rocky Mountain Conference, Denver, CO, 2017
- Reservoir Simulation and Spacing Optimization, SPE Wyoming, Casper, WY, 2018
- Petroleum Resource Management Systems (PRMS), SPE Wyoming, Denver, CO, 2018