



## Christian Vanderhoef, P.E. Senior Engineer

Mr. Vanderhoef is a chemical engineer with over twenty years of experience spanning reservoir, environmental, regulatory and civil engineering. His versatile skill set enables him to seamlessly navigate diverse engineering disciplines, taking on multiple roles to drive project success. His core competencies include (1) environmental and petroleum engineering to support regulatory processes including preparation of Underground Injection Control (UIC) permit applications and expert witness testimony; (2) reservoir engineering evaluations; and (3) local, state, and federal regulatory permitting including Stormwater Pollution Prevention Plans (SWPPPs), Spill Prevention Control & Countermeasure Plans (SPCC Plans), Commercial Oilfield Waste Disposal Facilities (COWDFs), Reclamation Cost Estimates, and WDEQ Chapter 23 Applications to determine septic system impacts, among other environmental and regulatory processes.

### Education

B.S., Chemical Engineering,  
University of Wyoming, 2004

### Professional Registrations

Wyoming: No. PE 12597

### Professional Memberships

Society of Petroleum Engineers  
Society of Petroleum Evaluation  
Engineers  
American Institute of Chemical  
Engineers

### Strengths

Project Management  
Project Design  
Process Improvement  
Risk Management

### Engineering Expertise

Environmental Engineering  
Petroleum Engineering  
Petroleum Engineering Expert  
Witness  
Class I, Class II, Class V and Class  
VI Injection & Disposal Wells  
Stormwater Pollution Prevention  
Plans  
Spill Prevention Control &  
Countermeasure Plans  
Commercial Oilfield Waste Disposal  
Facilities  
Reclamation Cost Estimates  
WDEQ Chapter 23 Applications To  
Determine Septic System  
Impacts  
AutoCad Civil 3D & ArcGIS

### Contact

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## EXPERIENCE

### Environmental & Petroleum Engineering

#### Regulatory

- Preparation of reservoir engineering exhibits and corresponding expert witness testimony at Wyoming Oil & Gas Conservation Commission (WOGCC) hearings
- Preparation of Drilling and Spacing Unit (DSU) and corresponding increased density application exhibits
- APD preparation, submittal and renewal
  - Horizontal well & exception location applications
  - 8M hearings
- Underground Injection Control (UIC) permit applications
- Statutory pooling application support
- Surface commingle application support
- Flaring application support

#### Petroleum Reservoir Engineering Studies

- Reservoir characterization
- Infill drilling evaluation
- Injection & disposal well screening
- Economic evaluations
- Secondary & tertiary oil recovery screening, design & permitting
- Carbon capture, utilization & storage (CCUS)

#### Well Evaluation

- Production decline analysis
- Pressure transient analysis
- Rate transient analysis

### General Regulatory Permitting

- Stormwater Pollution Prevention Plans (SWPPPs)
- Spill Prevention Control & Countermeasure Plans (SPCC Plans)
- Commercial Oilfield Waste Disposal Facilities (COWDFs)
- Reclamation Cost Estimates
- WDEQ Chapter 23 Applications To Determine Septic System Impacts