

# STEPHEN NELSON GUILLOT

3305 Edwards Drive | Plano TX 75025-4546 | [StephenNGuillot@gmail.com](mailto:StephenNGuillot@gmail.com) | (469) 486-3471

## RESERVOIR ENGINEERING DIRECTOR

Team-oriented, results-driven, and innovative leader in evaluating, developing, and managing EOR projects and increasing value through leadership, technical knowledge, and analytical skills.

## SKILLS

EOR Project Screening	Reservoir Management	Formation Evaluation
Production Forecasting	Wellbore Remediation	CO <sub>2</sub> Sequestration/ MRV
Project Planning and Execution	Technical Communication	Team Building and Mentoring

## PROFESSIONAL EXPERIENCE

### **University of North Dakota-Energy and Environmental Research Center** 10/2020-present **Distinguished Reservoir Engineer (Plano, Texas - remote)**

Various projects related to EOR, CCUS, and production forecasting

- Investigated feasibility of cyclic CO<sub>2</sub>-EOR in Bakken Shale, presented findings in PowerPoint presentation to EERC and industry representatives
- Reviewed Bakken production trends to determine effect upon production capacity and ultimate recovery of mass shutting in of production related to pandemic
- Quantified possible demand for CO<sub>2</sub> for conventional EOR projects near proposed MinnKota Pipeline Route and wrote sections of final report
- Working on Foreman Butte Field Revitalization project
- Generated conceptual MRV plan with associated costs for Summit CCS project
- Working with consultant to build unconventional EOR predictive tool

### **Independent Consultant (Plano, Texas)**

2/2020-9/2020

Diverse projects for clients including High River Resources LLC, Tellus O&G and Dorrance MI LLC

### **Denbury Resources, Inc.**

10/2015-1/2020

### **Reservoir Engineering Advisor (Plano, Texas)**

Mentor and company-wide CO<sub>2</sub>-EOR expert focused on improving reservoir management practices and actively managing the mature Heidelberg CO<sub>2</sub> project in eastern Mississippi.

- Coordinated company-wide team to develop Spotfire pattern analysis tool
- Consulted with asset teams on pattern analysis and reservoir management plans
- Technical consulting in support of A&D and developing "out-of-the-box" ideas
- Improved analysis of workover potential to target bypassed pay at Heidelberg
- Restructured Heidelberg field reserves bookings to maximize book value
- Optimized field development for Soso Rodessa project, restoring economic viability
- Mentored young professionals and summer interns

### **Independent Consultant (Guthrie, Oklahoma)**

3/2015-9/2015

Diverse projects for clients including Carbon Point Solutions and Windy Cove Energy

**Chaparral Energy LLC****4/2011-2/2015****Director of Reservoir Engineering – Enhanced Oil Recovery (Oklahoma City, Oklahoma)**

Directed all reservoir engineering-related activities (14 direct reports) for Chaparral's CO<sub>2</sub> floods in the Texas and Oklahoma panhandles including the Burbank field in Osage Co., Oklahoma

- Total CO<sub>2</sub> flood production increased from 4100 B/D to 7900 B/D
- Formulated and directed development plans & budgets for diverse projects
- Built user interface for construction of SQL/Access-based Pattern Scale-Up program
- Directed Farnsworth field 2014 development that increased production 1000 BOPD
- Instituted pattern-level flood monitoring and formalized pattern review process
- Coordinated Southwest Carbon Sequestration Partnership project, Farnsworth field

**Kinder Morgan CO<sub>2</sub> Company LP****12/2001-4/2011****Senior Reservoir Engineer - Business Development (Houston, Texas)**

Supported acquisition efforts by seeking and screening candidates for CO<sub>2</sub> potential, recommended acquisitions, data room evaluations, and special engineering projects

- Completed acquisition/due diligence of Yates Field, Claytonville and Katz Field Units
- Produced development plans and reserves analysis for SACROC Unit
- Reviewed all major California fields for CO<sub>2</sub> flood and sequestration potential
- Assessed Haynesville Shale properties for gathering system acquisition
- Assessed potential of the Bakken Shale for potential infrastructure investment
- Coordinated DOE-funded Southwest Carbon Sequestration Partnership project at SACROC and Claytonville fields

**Texaco, Inc.****Various roles and locations****8/1980-12/2001**

Multiple production and reservoir engineering and management roles of increasing responsibility in the Permian Basin and the Gulf Coast (onshore and offshore).

**REGISTERED PROFESSIONAL PETROLEUM ENGINEER**

State of New Mexico License # 9628

**EDUCATION**

B.S. Civil Engineering – University of New Orleans

M.S. Petroleum Engineering – University of Texas at Austin

**PROFESSIONAL INVOLVEMENT AND AWARDS**

- Technical Advisor to Carbon Point Solutions (non-emissive power generation)
- Society of Petroleum Engineers (SPE) involvement:
  - SPE Improved Oil Recovery Conference Program Committee (2018, 2020, 2022)
  - SPE Gulf Coast Section Service Award (2011)
  - Chairman of SPE Gulf Coast Section's Permian Basin Study Group (2008-2011)
  - Co-Author of two technical papers and sole author of one regarding CO<sub>2</sub>-EOR
- Numerous industry presentations on CO<sub>2</sub> flooding and oil price trends
- Authored article published 11/12/2015, "Oil Price Super-Cycles", *Oil and Gas Financial Journal*