

# Jason C. Sitchler

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*Geoscientist with seventeen years of professional experience as a geology and geomechanics specialist in North American unconventional basins and international conventional settings*

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## EDUCATION

### **Master of Science in Structural Geology (Dec 2005)**

*The Pennsylvania State University - University Park, Pennsylvania*

### **Bachelors of Science in Geology (Aug 2002)**

*Texas A&M University - College Station, Texas*

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## PROFESSIONAL EXPERIENCE

### **Petrophysical Specialist** - EOG Resources Denver Division | Denver, CO

March 2024 - Present

- Integrative geomechanical and petrophysical analyses for multiple asset teams
- Detailed log analysis for multiple formations in Rocky Mountain basins
- Basin-scale wireline log-based geomechanical modeling

### **Geological Specialist** - EOG Resources Executive Exploration | Houston, TX (remote work)

April 2022 - March 2024

- Company-wide geomechanics instructor and advisor for challenging projects
- Construct fit-for-purpose 3-D geological models for CCS pilot project and location evaluation
- Design and implement rock mechanics testing procedures and complete advanced analyses
- Wellbore stability analysis in various tectonic settings for improved drilling predictability
- Strategic planning and geomechanical advice for exploration evaluation and potential
- Development optimization in heterogeneous geological systems

### **Geological Specialist** - EOG Resources Denver Division | Denver, CO

April 2015 - April 2022

- Integrative role interfacing with geology and engineering in basin-scale asset evaluation
- Single well mechanical earth modeling for hydraulic fracture and reservoir simulation
- Created a basin-scale pore pressure model to be used as a foundation evaluation tool
- Design and implement rock mechanics testing procedures and complete advanced analyses
- Innovative wireline log analyses for detailed targeting and development

### **Senior Geoscientist** - SLB PetroTechnical Services Global Unconventional Hub | Denver, CO

Nov 2013 - April 2015

- Construct 3-D geological models of subsurface using well and seismic datasets in Petrel
- Define and populate geological facies and petrophysical models in a geocellular grid
- Calculate hydrocarbon in place volumetrics using porosity, saturation, and net-to-gross
- Conduct volumetric uncertainty analysis and case selection for dynamic reservoir simulation
- Routinely communicate and present results to management, experts, and executives

### **Geomechanics Specialist** - SLB PetroTechnical Services Global Unconventional Hub | Denver, CO

April 2008 - Nov 2013

- Responsible for constructing single-well and 3D static geomechanical earth models
- Integrative role interfacing with geology and engineering in basin-scale asset evaluation
- Determination of geomechanics-based completion quality parameters for acreage ranking
- Prospect evaluation and sweet spot identification in North America unconventional reservoirs
- Focused on wellbore stability, landing point selection, and completion optimization
- Incorporated wireline logs, core results, mud logs, drilling reports, and completions reports
- Cross-discipline communication with wireline, petrophysics, drilling, completions engineers

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## RELEVANT TRAINING

- **Rock Physics and Seismic Amplitude Interpretation** - RPS (Simm) | Houston, TX (2018)
- **Reservoir Modeling Field Class** - RPS (Steele and Stephen) | Utah (2016)
- **Petroleum Geostatistics** - Petroleum Technology Transfer Council | Denver, CO (2013)
- **Drilling Geomechanics** - K&M Technologies | Woodlands, TX (2012)
- **Rock classification and core-log integration** - TerraTek | Salt Lake City, UT (2011)
- **SEG/EAGE Short Course: *Geophysics Under Stress: Geomechanical Applications of Seismic and Borehole Acoustic Waves*** | Denver, CO (2010)
- **Schlumberger geology and geomechanics training** | Houston, TX (12 weeks total, 2008-2010)

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## SELECT PUBLICATIONS, REPORTS, AND PRESENTATIONS

- Belobraydic, M., Luneau, B., Sitchler, J., *Play-Scale 3D Modeling and Novel Risk-Ranking Concepts for Developing Unconventional Assets*, RMS AAPG, Jul 2014.
- Mata, D., Dharwadkar, P., Gonzales, V., Sitchler, J., Cherian, B., *Understanding the Implications of Multiple Fracture Propagation in Well Productivity and Completion Strategy*, SPE Joint Regional Meeting, Denver, Apr 2014.
- Cherian, B.V., Nichols, C.M., Panjaitan, M., Krishnamurthy, J., Sitchler, J., *Asset Development Drivers in the Bakken and Three Forks*, SPE Hydraulic Fracture Technology Conference, Feb 2013.
- Higgins-Borchardt, S., Krepp, T., Frydman, M., Sitchler, J., *New Approach to Geomechanics Solves Serious Horizontal Drilling Problems in Challenging Unconventional Plays*, URTEC, Aug 2013.
- Sitchler, J.C., *An Integrated Approach to Well Ranking in the Denver-Julesburg Basin*, poster, Schlumberger Tech Days, Denver, CO, Sep. 2011.
- Sitchler, J.C., Higgins-Borchardt, S., Bratton, T., Kaufman, P., *Meeting the Demand for Geomechanics Insight and Strategy in the DJ Basin*, oral presentation, Rocky Mountain Section AAPG Annual Meeting, Cheyenne, WY, Jun. 2011.
- Claugus, A., Dilli, M., Cherian, B.V., Mata, D., Sitchler, J., Alatrach, S., Neumiller, J., Panjaitan, M., *Integrated Single-Well Modeling Improves Completion Design in Unconventional Gas Play*, World Oil, July 2011.
- B.V. Cherian, Schlumberger; A.O. Claugus, M. Dilli, GMT Exploration; D. Mata, J. Sitchler, S. Alatrach, J.L. Neumiller, M.L. Panjaitan, Schlumberger, *An Integrated Single-Well Approach to Evaluating Completion Effectiveness and Reservoir Properties in the Wind Dancer Field*, SPE Tight Gas Completions Conference, Nov. 2010.

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## TECHNICAL COURSE INSTRUCTOR

- *Introduction to Reservoir Geomechanics*, EOG Resources (2015-present)
  - Developer and co-instructor for annual one week course for Geologists and Engineers
- *Advanced Formation Evaluation*, Colorado School of Mines Petroleum Engineering (Feb 21 2012)
  - Co-taught this three hour lecture, presenting fundamentals of the Mechanical Earth Model and how it is used in the industry.

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## INDUSTRY AFFILIATIONS

- Society of Petroleum Engineers, American Association of Petroleum Geologists, Rocky Mountain Association of Geologists, Geological Society of America, Society of Exploration Geophysicists
- Past Editor for SPE Drilling and Completion and Journal of Canadian Petroleum Technology

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## REFERENCES (available upon request)

