

Daniel J. Miller

Cody, Wyoming

Summary & Skills

Detail-oriented geologist specializing in well data management & graphic-intensive software. Experience with development projects, prospect evaluations, and exploration.

- Ph.D. degree (1998) with academic focus on clastic sedimentology & sequence stratigraphy
- Fourteen years of industry experience with three Major E&P Companies, one independent, and one consulting firm. Primary focus in the U.S. Rockies, Mid-continent, and Texas; international exposure in China & Australia
- Licensed Wyoming Professional Geologist
- Skilled in correlation & log interpretation, structural & isopach mapping, fracture trend analysis, and reserve evaluation
- Substantial experience with conventional oil & gas fields, tight sandstones, shale gas & CBM plays. Significant exposure to enhanced recovery projects including Nitrogen, Polymer, and CO₂ floods.
- Expertise in PETRA and in the geological/ engineering application of Microsoft programs & CorelDraw graphics software

Professional Experience

2012-present: Principal investigator & business manager – Targeted Oil & Gas Analysis, LLC, Cody, WY

- Providing geologic consultation and detailed reservoir graphics.

2011-2012: Senior Geologist- Santos Ltd, Adelaide, South Australia

- Development and exploration geologist. Significant projects include:
 1. Detailed field evaluation of stacked conventional & tight gas targets
 2. Basinwide evaluation of Permo-triassic reservoirs in the northwest Cooper Basin

2008-2011: Principal investigator & business manager – Targeted Oil & Gas Analysis, LLC, Cody, WY

- Providing geologic consultation and detailed reservoir graphics. Significant projects include:
 1. Basinwide evaluation of Pennsylvanian-age shale reservoirs in DJ and Paradox Basins
 2. Basinwide evaluation of oil reservoirs, North Slope Alaska
 3. Fieldwide evaluation of Minnelusa reservoir in the Powder River Basin
 4. Basinwide mapping and evaluation of tight carbonate gas-condensate reservoirs (Michigan Basin)
 5. Niobrara Shale: detailed mapping of shale-marl oil reservoirs; delineation of productive trends (Wyoming and Colorado)
 6. In-depth field-scale evaluation of coal-bed methane reserves (Wyoming and Utah)
 7. Fieldwide evaluation of San Andres carbonate reservoirs (West Texas)
 8. Mature field evaluations, drill well support, and unconventional reservoir assessments in the Big Horn and Powder River basins (Wyoming and Montana)
 9. Evaluation of sub-thrust structural, unconventional oil, and tight gas plays in Wyoming's Green River Basin

2004-2008: Senior Development & Exploration Geologist - Iron Creek Energy Group, Cody, WY

- Varied role in development geology, exploration, and business development. Major projects include:
 1. Pre-drill/ workover geologic analysis in mature oil fields (Wyoming's South Glenrock, South Cole Creek, Bonanza fields, and Colorado's McCallum Field).

2. In-depth development geology of Nitrogen and Polymer-flooded reservoirs (East Binger Field, OK), and Thompson Creek Field (WY).
3. Active drilling of tight gas reservoirs in the Green River Basin. Involvement with all phases of permitting, drilling, reservoir evaluation, and completion of 12 wells on the Pinedale Anticline and 30+ wells in the Wamsutter Field.
4. Multiple shale gas evaluations (Antrim, New Albany, Floyd, & Mowry plays); and CBM evaluations/projects in the Powder River & Green River Basins.
5. Geological evaluation of the Smackover oil field in northern Arkansas.
6. Detailed structural and reservoir analysis of the Ryckman Creek field (WY Overthrust) ahead of re-entry & enhanced recovery efforts.

2003-2004: Exploitation/ Exploration Geologist - EnCana Oil and Gas (USA) Denver, CO

- Basinwide reservoir assessment & drill-well support for EnCana's Barnett Shale acreage, Fort Worth Basin, TX. Performed facies analysis of gross and net shale gas reservoirs; and assisted in stimulation design, geochemical sampling, and seismic evaluation. Active role in the drilling and completion of ~20 shale gas wells, including several horizontal efforts.

1998-2003: Development/ Exploitation Geologist - Marathon Oil Company, Cody, WY

- Tight gas development (Green River Basin): Responsible for locations determination & geologic evaluation of 40+ wells and multiple recompletions in Cretaceous tight gas sandstones. Investigated water disposal options into Tertiary sandstones.
- CBM (Uinta Basin): development geology of Drunkard's Wash infill drilling; and geological investigation of surrounding acreage. Powder River Basin: investigated production potential and water disposal options in the Sheridan area.
- Conventional oil fields: geologic analysis of Paleozoic and Mesozoic carbonate & clastic reservoirs throughout the Big Horn and Wind River Basins. Experience with infill-drilling using combined geophysical and geological analyses.

Academic Background

1998 : Ph.D. in Geology : Virginia Polytechnic Institute and State University, Blacksburg, VA.

1990 : B.S. with honors in Geology, Magna Cum Laude, James Madison University, Harrisonburg, VA

Publications

Miller, D. J., and K.A. Eriksson, 2000, Sequence Stratigraphy of Upper Mississippian Strata in the Central Appalachians: A Record of Glacioeustasy and Tectono-eustasy in a Foreland Basin Setting: AAPG Bulletin Vol. 84, No. 2, p. 210-233.

Miller, D. J., and K.A. Eriksson, 1999, Linked Sequence Development and Global Climate Change: the Upper Mississippian Record in the Appalachian Basin: *Geology*, v. 27, pg. 35-38.

Miller, D. J., and K.A. Eriksson, 1997, Late Mississippian Pro-deltaic Rhythmites in the Appalachian Basin: a hierarchical record of tidal and climatic periodicities: *Journal of Sedimentary Research*, v. 67, p. 653-660.

Affiliations

1998-present: American Association of Petroleum Geologists