

# William Connelly, Ph.D.

Golden, Colorado

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## **Skills**

- Subsurface mapping: stratigraphic, structural, and reservoir
- Well log correlation, interpretation, and petrophysical analysis
- Strong computer skills: Petra, Geolog, Z-map, Petrosys, SeisWorks, StratWorks, Isatis, Excel, Access; work effectively with large data sets
- Reservoir characterization; pore-volume oil and gas reserve estimates
- Property evaluation and development plans; acquisitions and divestments
- Approved “expert witness” in States of Colorado, Wyoming (PG-3938), and Louisiana
- International experience in Venezuela, Russia, Kazakhstan, Albania, Norway, and Canada

## **Employment History and Accomplishments**

**Linn Energy, Geological Advisor**, 2010 to 2016 (Houston, TX, and Denver, CO).

- Responsible for geological aspects of Wyoming assets, including the giant Jonah Field and many fields in the Greater Green River basin.
- Oversaw the Wolfberry oil trend in the Permian basin where the company had six rigs drilling.

**ConocoPhillips, Principal Geologist**, 2007 to 2010 (Midland, TX, Denver, CO, Houston, TX).

- Worked for more than 10 years with ConocoPhillips before retiring.
- Responsible for Exploration of the Mesaverde and Lewis in the Green River basin, WY. Evaluating the Barnett Shale in Montague County Texas. Was responsible for the Fort Union, Cody, Frontier, and Madison formations in the Madden Deep Unit, Wind River basin.
- ConocoPhillips secondee to Petrozuata, 2006 to 2007 (Puerto La Cruz, Venezuela). Senior Geologic Advisor working the Orinoco basin heavy oil project. Establish official correlations for multi-lateral wells and manage the tops database. Work with the subsurface team on Long Range Plans and field development. Work was primarily in SeisWorks, StratWorks, and Petrosys. ConocoPhillips abruptly left Venezuela due to nationalization.
- Burlington Resources was acquired by ConocoPhillips in April, 2006 and I was retained by as a Principal Geologist in Farmington; responsible for the Mesaverde Formation in the San Juan basin, including resource assessment, 40-acre infill potential, and Lewis Formation mapping and evaluation.

**Burlington Resources, Geological Advisor**, 1999 to 2006 (Farmington, NM).

- Petrophysical mapping of the Mesaverde Group in the San Juan Basin utilizing 3218 digitized well logs. Maps include gross porosity, netpay, and OGIP for the Point Lookout, Menefee, and Cliffhouse formations. Wrote Geolog modules to compute petrophysical parameters, which were exported to Isatis for Kriging, then contoured in Z-Map. Completed Resource Assessment for the Mesaverde basin-wide and identified all drillable locations and assigned them reserves.
- Mapped the Tocito formation in the Huerfano field, San Juan basin, and fully documented the study in a four volume report.
- Mapped the Dakota formation on Barker Dome, CO and NM, and recommended many recompletions and new drill wells; success has been good.
- Regional mapping in the Paradox basin of Colorado and Utah. Worked with a reservoir engineer and geophysicist to prepare an Eclipse simulation of the Double Eagle field where Burlington recently completed several Honaker wells.

**Pangea International, Chief Geologist**, 1991 to 1999 (Golden, CO).

- Projects in Kazakhstan and Russia as well as domestic property evaluations. Kazakh studies focus on the Mangghystau region and the PreCaspian Basin. Russian studies focused on properties in Tyumen, Tomsk, Irkutsk, and Komi Oblasts.
- Numerous field studies and reserve estimates, including one for the World Bank.
- Co-authored a five-part series for the Oil & Gas Journal titled *Evaluation of Oil and Gas Opportunities in Western Siberia* (see publication list below).

**NERCO Oil & Gas, Exploration Manager**, 1986 to 1991 (Vancouver, WA).

- Supervised the geological and geophysical staff during the mapping of many onshore and offshore fields in the Gulf Coast region; personally mapped several fields.
- As Coordinator for oil and gas acquisitions, I interfaced between Geology, Land and Legal, Engineering, Accounting, and Marketing to insure effective due diligence.
- Established a geological and geophysical data-base.
- Proposed several new business ventures, including a joint-venture with Louisiana Land & Exploration where 28 OCS Gulf of Mexico tracts were leased in four sales.

**Rock Oil, Chief Geologist, Exploration Manager**, 1982 to 1986 (Denver, CO).

- Rock Oil formed in 1981, and in 1985 had become the eleventh most active driller in the Rocky Mountain region; activity focused in the Powder River and D-J basins.
- In addition to managing the Geology Department during this peak of activity, I generated, drilled, and evaluated more than 70 prospects resulting in 40 productive wells.

**Davis Oil, Geologist**, 1981 to 1982 (Denver, CO).

- Generated and drilled nine prospects in the Williston, Wind River, Green River, and Sand Wash basins resulting in four productive wells.

**AMOCO Production, Project Leader**, 1976 to 1981 (Denver, CO).

- Worked in the Rocky Mountain region generating prospects and supervising eight geologists.
- Responsible for exploration and operations in southern Alaska, including Cook Inlet, Gulf of Alaska, and Alaska Peninsula; Party Chief on two 3-month field parties in Alaska.

**University of California, Research & Teaching Assistant**, 1972 to 1976.

- Worked under a National Science Foundation funded project.
- Six months were spent in the field constructing geologic maps of the Kodiak Islands.
- Laboratory work included petrographic, XRD, and XRF analyses of samples.
- Conducted labs for Introductory Geology, Crystallography and Mineralogy, Optical Mineralogy, and Petrography.

**U.S. Geological Survey, Geologist**, 1972 (Salida, CO).

- Worked in the Sawatch Range of Colorado studying sulfide ore deposits.

## **Education and Military**

- **Ph.D.**, Geology, 1976, University of California at Santa Cruz.
- **B.S.**, Geology, 1972, California State University at Hayward; Dean's List.
- **U.S. Navy**, Radioman (E-4); 1967 - 1968; USS Oriskany; Vietnam.

## **Interests and Affiliations**

Interests include bicycling, hiking, and computers.

**Member of:** American Association of Petroleum Geologists  
Wyoming Certified Professional Geologist (PG-3938)  
Geological Society of America

## Publications

- Carden, J.R., Connelly, Wm., Forbes, R.B., and Turner, D.L., 1977, Blueschists of the Kodiak Islands, Alaska: An extension of the Seldovia schist terrain: *Geology*, v.5, p. 529-533.
- Connelly, Wm., 1976, Mesozoic geology of the Kodiak Islands and its bearing on the tectonics of southern Alaska [Ph.D. thesis]: Santa Cruz, Univ. California, Santa Cruz, 197 p.
- Connelly, Wm., 1978, Uyak Complex, Kodiak Islands, Alaska: A Cretaceous subduction complex: *Geol. Soc. America Bull.*, v.89, p.755-769.
- Connelly, Wm., 2016, Tales of a little known geologist: Amazon ASIN 1530831903, 229 p.; <http://connelly.com>.
- Connelly, Wm., and Moore, J.C., 1979, Geologic map of the north side of the Kodiak and adjacent Islands, Alaska: U.S. Geological Survey Map MF-1057.
- Connelly, Wm., and Krug, J.A., 1992, Evaluation of oil and gas opportunities in Western Siberia (five-part series): *Oil & Gas Jour.*, Nov. 1992 to Feb. 1993.
- Connelly, Wm., and Krug, J.A., 1993, Investment in the Oil and Gas Industry from a Westerner's Perspective: *D.G.L. Oil & Gas Industrial Journal* (Houston, TX), p. 19-31 (published in Russian).
- Moore, J.C., and Connelly, Wm., 1977, Mesozoic tectonics of the southern Alaska margin, in Talwani, N., and Pitman, W.C., *Jour.Geophy. Research Maurice Ewing Ser.* v.1, p. 71-82.
- Moore, J.C., and Connelly, Wm., 1979, Tectonic history of the continental margin of southwestern Alaska; Late Triassic to earliest Tertiary: *Alaska Geological Symposium*, 1977.
- Smirnoff, Leonid, and Connelly, Wm., 1980, Axes of elongation of petrified stumps in growth position as possible indicators of paleosouth, Alaska Peninsula: *Geology*, v.8, p. 547-548.
- Connelly, Wm., and Smirnoff, Leonid, 1981, Reply: Axes of elongation of petrified stumps in growth position as possible indicators of paleosouth, Alaska Peninsula: *Geology*, v.9, p. 437.