



Bjarne "Bj" Kristiansen, PG

WPG-787

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Education

Augustana College Rock Island, Illinois

B.A. - Majors: Geology, History Minor: Biology (primarily environmental studies)
President – Sigma Gamma Epsilon, Alpha Iota Chapter (National Earth Science Honor Fraternity)

Current Professional experience

May 2013 – present WDEQ /Land Quality Division

*PROJECT GEOLOGIST (11 MO.); NATURAL RESOURCES PROGRAM
PRINCIPAL (present)*

- Program Principal for Non-Coal Mines in LQD/District III
- Assistant District Supervisor
- Coordinate 1 coal prospect, 2 Uranium Mines, 1 Rare Earth prospect
- Expert in Geology, Hydrology, Reclamation Bonding, Computer Modeling
- Expert on BHCC geology and hydrology and adjacent lands

January 2013 – present Northern Wyoming Community College District; Sheridan, WY

*Adjunct Professor of Anthropology, Geology - Archaeology and
Anthropology Instructor*

- Responsible for teaching the Introduction to Archaeology course to freshmen and sophomore students, covering the history and tools used in the science of Archaeology.
- Also teach 3 to 9 hours of Cultural Anthropology, on-line and face-to-face

Past Experience

GEOxplore Consulting, Lead Engineering Geologist and Archaeologist

PROJECT GEOLOGIST/LEAD CONSULTANT-MARCH 2006-MAY 2013

- Establish testing procedures and perform tests on county road dust in the TSP, PM-10, and PM-2.5 size classifications prior to and after dust mitigation by county road crews.
- Generate reports for Road and Bridge departments to fulfill Federal requirements dictated by use of Federal Highway funds. Facilitate Road and Bridge work teams for effective maintenance deployment based on primary issues defined by testing. Assist in creating annual budget for disposition of \$2 million to \$3 million to counties in Wyoming for county road repairs.

Energy, Minerals Counties Coalition (aka CBMCC) public non-profit

*GEOLOGY/HYDROLOGY/FINANCIAL DIRECTOR UNDER CONTRACT 2006-APRIL,
2012*

Expanded the CBMCC to cover all energy resources and mineral development in Wyoming:

DEQ Exhibit 14

DEQ 14-001

- Assisting stakeholders in determining financial impacts caused by energy development
- Provide archaeological skill to local CRM work
- Preventing waste or damage to natural resources

Energy , Minerals Counties Coalition (aka CBMCC) public non-profit

Geology/Hydrology/Financial Director under contract 2006-April, 2012

- Expanded the CBMCC to cover all energy resources and mineral development in Wyoming:
- Assisting stakeholders in determining financial impacts caused by energy development
 - Provide archaeological skill to local CRM work Preventing waste or damage to natural resources for maximum financial return and minimal environmental impact
 - Oil, Gas, Uranium, and other energy resource materials monetary evaluations
 - Water Resources in development areas, including fracking issues as a primary focus
 - Develop baselines for soils affected by energy resource activity as they relate to agriculture
 - Road dust and its negative influence on all stakeholders both medically and financially

Coalbed Methane Coordination Coalition , public non-profit

GEOLOGY/HYDROLOGY/ARCHAEOLOGY COORDINATOR UNDER CONTRACT 2001-2005

- Supported the citizens of Wyoming with the multiple issues arising from oil and gas development in Wyoming and how they affect the local populations in the industrial and public sectors. Some of the areas of concern were:
- Presentation of energy statistics and explanatory information to the public with emphasis on long-term solutions to provide homegrown energy resource that are financially and environmentally viable. Specifically focus on Uranium, natural gas, coal, and oil potential
 - Regulatory issues affecting the investments in time and resources of all stakeholders from federal to local
 - Monitoring air, water, and soil quality to assess changes during separate phases of development
 - Developing mitigation measures to work within state guidelines for agencies overseeing resource exploration and development; such as DEQ, Wyoming Oil and Gas Commission, the State Engineer, and Department of Revenue

January, 1990 – February, 2000 Decker Coal Company Decker, Montana

SENIOR GEOLOGICAL ENGINEER/BUDGET LEAD/SHIFT FOREMAN, OFF-HOUR SUPERINTENDENT

- Generated \$40 Million annual budget (over 8,000 cost items) and labor estimate for the mine for two years. Came within 4% of estimate both years.
- Trainer for human resource development programs (Covey, Zenger-Miller, VSA).
- Foreman supervising 26-30 people in mining and construction – over 40,000 man-hours without any accidents.
- Designed mine infrastructure – Drainage, pits, ramps, roads, and facilities.
- Designed and implemented all coal exploration drilling programs and supervised drill crews and well loggers in Northern Great Plains as regional geologist (with Kiewit).
- Supervised and implemented all archaeological CRM work necessary for each drill hole location and mine pit cuts.

- Assisted in large equipment maintenance, scheduling and repair planning.
- Supervised coal quality blending program to meet contractual specifications.
 - **Reason for leaving: To start up consulting business.**

October, 1975 – February, 2000 Peter Kiewit Sons’ Company

Exploration Geologist in Coal, Precious Metals, Bentonite, Uranium, Gravel, Scoria, and other industrial minerals

Skills

- Lead Geologist on exploration programs in Yukon, Nevada, Montana, Wyoming, Arizona, South Dakota, Colorado, Utah
- Work **extensively** with **ArcView, AutoCAD, Adobe Acrobat, Surfer, Voxler**, and MINCOM Mining software (wrote code to model and mine coal for 20 to 30 year mine life study)
- Expert user of Excel, Word, Power Point, and Publisher
- Test, analyze, and report on suspended particulates (**TSP, PM₁₀, PM_{2.5}, PM_{1.0}, gravimetric sampling**) in Wyoming counties with mobile equipment and rapid deployment to anywhere in the region. **Create rapid cost estimates and budgets for such programs.**

Community activities

- Mentor troubled individuals suffering from depression, alcoholism and drug addiction.
- Board of Directors, Chairman of the board – Wyoming Substance Abuse Treatment, And Recovery Center 2001 - 2006
- Board of Directors - Sheridan Dog and Cat Shelter 2007 – 2009
- Board of Directors – Sheridan Second Chance Cat Rescue 1/1/2010 – 12/31/2010
- Meetings with the Northern Cheyenne Tribe in Montana to help them make informed decisions when they begin to produce coal and natural gas on the Reservation.

References

Mark Rogaczewski – District Supervisor
 WDEQ – Land Quality Division, District III
 Mark.rogaczewski@wyo.gov
 2100 W. 5th Street
 Sheridan, WY 8280

Mike Nickel (**and** Bob Ralston, Steve Maier, and Terry Cram)
 Sheridan County Board of County Commissioners
 Phone: (307) 751-2215
 Email: boccc@sheridancounty.com

Accreditations

- Completed 40 hrs. of OSM training, Subsidence module (SUB-51)
- Certified Blaster, Wyoming, WS 1312-13 (expires 6/2018)
- State of Wyoming – Registered Professional Geologist, WPG-787.
- State of Montana – Certified surface coalmine foreman, No. 65-94.
- Zenger/Miller – Certified Frontline Leadership, Working, and Quest Facilitator.
- Peter Kiewit Sons’ Co. – Radiation Protection Officer, 1976-1990
- Attended Covey 7-habits, TQM, VSA, and other corporate training programs for 10 years.
- Past Member – Archeological Conservancy and the Archaeological Institute of America