

# JAMES A. BONNER, P.G.

Senior Scientist



## Fields of Expertise

Site characterization; hydrology and hydrogeology; drilling supervision: airborne, surface and down-hole geophysical surveys; regulatory compliance; program and project management.

## Registrations

Professional Geologist: WY (PG-906)

## Education

B.S., Geology, University of Wyoming, 1968

## Professional Summary

Mr. Bonner serves as a Senior Scientist for Gordon Environmental, Inc. He has over twenty-eight years of professional experience in managing a wide variety of geologic and environmental projects. These projects have included mineral exploration programs, mining property development, environmental site assessments, environmental compliance audits and documentation, municipal solid waste facility NEPA documentation and hazardous waste disposal facility permitting.

## Select Project Experience

### **Sandoval County Landfill – New Mexico**

Mr. Bonner managed field activities associated with the subsurface investigation for the lateral expansion of the Sandoval County Landfill. This investigation included a hollow-stem auger drilling program to obtain samples for geotechnical analyses and the completion of two down-gradient groundwater monitoring wells. He also authored the Siting Criteria and Geohydrology portions of the permit modification application. Mr. Bonner also participated in the development of the on-site, in-vessel composting operation

### **Valencia Regional Landfill and Recycling Facility – New Mexico**

Mr. Bonner conducted a site drilling program in conjunction with a Subsurface Investigation Plan to evaluate the geologic setting of this landfill. He prepared detailed geologic cross-sections to demonstrate the footprint of the disposal area was located within low permeability clays of the Tertiary Popotosa Fm. Mr. Bonner incorporated the results of this drilling program into the Siting Criteria and Geohydrology portions of the permit application.

### **Roswell Municipal Landfill – New Mexico**

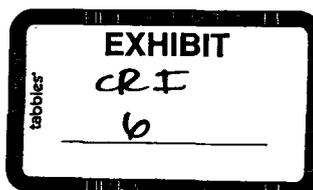
Mr. Bonner prepared a Subsurface Investigation Plan for a landfill expansion program at the Roswell Municipal Landfill. He directed a hollow-stem auger drilling program to obtain samples for geotechnical analyses and the completion of three groundwater monitoring wells with the confined San Andres Limestone aquifer. He incorporated the results of this drilling program into the Siting Criteria and Geohydrology portions of the permit modification application.

### **Site Characterization, Triassic Park Waste Disposal Facility, Chaves County, New Mexico:**

Project manager and lead investigator for site characterization activities for Part B permit for a Resource Conservation and Recovery Act (RCRA) Subtitle C hazardous waste landfill in Chaves County, NM. Mr. Bonner was a key member of the permitting team that assisted Gandy-Marley, Inc. to obtain an operating permit from the Hazardous and Radioactive Materials Bureau (HRMB) of the New Mexico Environment Department (NMED) for the *Triassic Park Waste Disposal Facility*. This facility, located in southeast New Mexico, is currently the only site permitted in the State of New Mexico to treat, store and dispose of hazardous wastes. He managed the site characterization drilling, development of subsurface maps and hydrologic studies of the property. He authored the Groundwater Protection portion of the permit application and was a major contributor to the successful development of a Groundwater Monitoring Waiver Document for this site. He collected subsurface cores for geotechnical studies and worked closely with the design engineers to provide data to support design decisions. Mr. Bonner also provided expert testimony at public meetings and NMED-sponsored public hearings prior to the issuance of the final permit.

### **Environmental Impact Statement, High Mesa Environmental Facility, Santa Fe County, New Mexico**

Mr. Bonner was the primary author for an Environmental Impact Statement for the Bureau of Indian Affairs on the *High Mesa Environmental Facility*. This project was for the construction and operation of a disposal facility for municipal solid waste, as well as construction and demolition waste. The proposed facility is situated on a portion of Námbe Pueblo lands in north-central New Mexico. One of Mr. Bonner's primary tasks was the preparation of the geologic and hydrologic portions of the document. He was also directly involved in several



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public meetings and the lengthy comment and response period associated with the project.

## ***Environmental Compliance, Waste Isolation Pilot Plant (WIPP), Eddy County, New Mexico***

Mr. Bonner served as project manager for the preparation of numerous WIPP facility environmental compliance projects, including (1) National Emission Standards for Hazardous Air Pollutants (NESHAPs) Data Package for the WIPP site. This document established radiological source terms and, utilizing EPA-approved air dispersion modeling codes, calculated offsite doses to the public from routine operations during the proposed five-year Test Phase. (2) Biannual Environmental Compliance Report (BECR) for the WIPP site. This document identified all environmental compliance requirements for the site and provided a status of all related reports. (3) WIPP Mitigation Action Plan (MAP), which identifies commitments made in the Record of Decision of the WIPP Final Environmental Impact Statement (FEIS) and WIPP Supplement Environmental Impact Statement (SEIS) that require mitigative actions. This plan also identifies organizations responsible for mitigation implementation, documents specific implementation plans and procedures, and identifies schedules of remaining mitigative actions.

## ***Environmental Property Assessments, NorthCorp Realty; Colorado, New Mexico, Texas, California, Georgia, Alabama and Tennessee***

Mr. Bonner was the project manager for commercial environmental property assessments pursuant to a national contract for NorthCorp Realty. These assessments involved regulatory record reviews, title searches, property evaluations and personal interviews with past/present landowners. Site investigations included a review of local geology, groundwater conditions and past land uses that could have impacted the environment. These investigations included both the subject property and adjacent parcels (within a 1-mile radius). Also performed Phase I and Phase II site assessments for other commercial clients in New Mexico and surrounding states.

## ***Mine Site Characterization, Bear Creek Uranium Mine, Converse County, Wyoming***

Mr. Bonner was responsible for directing development drilling on the Bear Creek Mine in preparation for commencement of surface mining operations. As part of these responsibilities, he was responsible for site characterization activities associated with the selection of a mill site. He oversaw extensive coring operations to obtain geotechnical samples to evaluate properties of subsurface clays for use as liner material in mill tailings ponds and for mine slope stability studies. He also participated in non-conventional mining research activities on the property, including pilot studies for in-situ leaching and hydraulic borehole mining.

## ***Mineral Exploration Management, Union Pacific Mining Corporation, Western U.S.***

Mr. Bonner managed hundreds of mineral exploration and evaluation projects throughout the western U.S., involving the states of Wyoming, Colorado, New Mexico, South Dakota, North Dakota, Nebraska, Oklahoma, Montana, Idaho, Washington, California, Nevada, Arizona and Texas. Mr. Bonner served in various field, supervisory and management positions. He was responsible for the completion of thousands of drill holes, logging, collection and evaluation of drill cuttings and the preparation of subsurface geologic maps. He utilized a wide variety of airborne, surface and down-hole geophysical surveys; geochemical (water, sediment, rock, and gas) sampling in the selection and evaluation of drilling targets. As part of his exploration activities, he directed survey crews, archeological consultants and earth moving contractors. As an exploration manager, he was responsible for budget preparation; managing a staff of up to twenty-five people; and coordination with industry contacts, regulatory personnel and community leaders.

## ***Additional Professional Training***

Field Application of Geochemical Sampling, Colorado School of Mines, 1981

Identification of Marginal Marine Depositional Systems, American Association of Petroleum Geologists, 1984