

**PHILLIP R. GOETZE**

Oil Conservation Division

Energy, Minerals and Natural Resources Department, State of New Mexico

Over 40 years of experience developing and implementing a variety of projects with environmental, hydrologic, or regulatory applications.

**PROFESSIONAL EXPERIENCES:**

**February 2013 to Present:** Petroleum Geologist/Geohydrologist/Currently Acting UIC Manager  
**Engineering Bureau, Oil Conservation Division, Energy, Minerals and Natural Resources Department**

1220 South St. Francis Drive, Santa Fe, NM 87505

Administrative permitting for development and management of oil and gas resources under the state Oil and Gas Act. These projects include technical review of administrative applications and preparation of orders for non-standard locations, pool delineations, and non-standard proration units. Lead technical reviewer of applications for Class II wells (including produced water disposal wells and enhanced oil recovery (EOR) projects) under the New Mexico primacy agreement with the United States Environmental Protection Agency (USEPA) for its Underground Injection Control (UIC) Program under the Safe Drinking Water Act. Hearing examiner for Division hearings for cases regarding both protested and unprotested applications for approval of non-standard oil and gas circumstances that cannot be administratively permitted. Additional assignments related to the position:

Provide technical assistance to District personnel and General Counsel staff regarding compliance issues for disposal and EOR wells.

Development of protocols and recommended guidance for UIC related subjects such as induced seismicity, exempted aquifers and Class II disposal impacts on producing intervals.

Prepare quarterly reports for review by the UIC coordinator for submission to the USEPA.

Recommend changes in policy reflecting application of new technology or processes (e.g. injection rules per 19.15.26 NMAC).

Provided expert testimony before the Oil Conservation Commission for applications and in support of rulemaking (e.g. acid gas injection well applications, casing requirements in the Roswell Artesian Basin, and reporting requirements for fracturing fluids).

Provided expert testimony before the New Mexico Water Quality Control Commission (NMWQCC) in support of rulemaking (e.g. expanded authority for UIC Class I hazardous disposal wells).

Appointed as hearing examiner by the Division Director under 19.15.4.18 NMAC. Assist Santa Fe and District personnel with the Division's Loss Control Program.

**March 2007 to February 2013:** Hydrogeologist / Environmental Scientist / Project Manager  
**Gloreita Geoscience, Incorporated**

1723 Second Street, Santa Fe, NM 87505

Multiple projects for environmental, hydrologic, and natural resource assessments including:

Los Alamos National Laboratory (LANL): contract team leader for ground-water sampling (including springs, shallow wells, monitoring wells with Baski and Westbay systems) in support of the Ground Water Stewardship Program; four years of sediment mapping and soil sampling for contaminants as part of the LANL assessment of geomorphic influences following the Cerro Grande and Las Conchas fires; geodetic surveying (with Trimble RTK GPS and Geodimeter total station units) and waste characterization sampling following LANL and New Mexico Environment Department (NMED) protocols.

Oversight of drilling, logging, and construction of deep exploration wells as part of Rio Rancho's City Water Program and the NM Office of the State Engineer (Ft. Sumner project).

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Hydrologic modeling and ground-water abatement plan development for multiple dairy facilities in southern and eastern New Mexico.

Numerous Phase I Environmental Site Assessments (ESAs) for commercial, industrial, and undeveloped properties in northern New Mexico, Nevada, and Texas.

Establish protocols, sampling requirements, and compile data for annual reporting for clients with Closure and Post Closure plans for landfills.

Oversight of petroleum storage tank removals, closures, and Minimum Site Investigations following closure.

Preparation and annual reporting of NPDES permits for commercial clients in New Mexico.

Preparation and implementation of Stage I Abatement Plans for dairies in violation of the NMWQCC ground-water standards.

Quality assurance for ground-water modeling and various sampling programs including mandatory monitoring and special client-specific events.

**April 2006 to January 2007:** Hydrogeologist / Project Manager

**Tetra Tech EM Incorporated**

6121 Indian School Road NE, Suite 205, Albuquerque, NM 87110

This position included responsibility for redevelopment of previous client relationships while maintaining obligations to state, Federal and private projects. Most significant projects include the following:

- Supervising geologist for drilling, construction, and development of deep monitoring wells at Kirtland Air Force Base for Long-Term Monitoring Program.

- Preparation of sampling and analysis plans for Texas Department of Criminal Justice landfills.

**September 1999 to March 2006:** Hydrogeologist / Project Manager

**ASCG Incorporated of New Mexico (now the WH Pacific Corporation)**

6501 Americas Parkway NE, Suite 400, Albuquerque, NM 87110

Responsible for a variety of environmental services for site assessment and remediation of contaminated sites associated with Federal, state, and private clients in New Mexico, Arizona, and the Navajo Nation. Significant projects entail the following:

- Field Technical Leader (as subcontractor) for drilling, construction, and development of deep and shallow monitoring wells at LANL for 2005.

- Developed and supervised assessment drilling programs for Risk-Based Corrective Action assessments of petroleum-contaminated NMED and Bureau of Indian Affairs (BIA) sites in New Mexico and Arizona.

- Responsible for project development and management of soil and ground-water remediation of hydrocarbon and solvent-contaminated sites including quarterly water sampling events and air monitoring for compliance.

- Supervised and participated in resolution of correction actions identified under USEPA CA/CO 1998-02 at approximately 35 Bureau of Indian Affairs federal facilities including review of asbestos programs, PCB investigations and remediations, Phase I ESAs for property transfer, AST/UST removals, hazardous waste disposal activities, environmental audits, and validation sampling of previous remedial activities.

- Completed development and oversight of voluntary corrective actions of hazardous wastes cited in notice of violations at the Southwestern Polytechnic Indian Institute.

- Provided sampling program for the AMAFCA Storm Water Study for assistance in compliance of the MS4 for the City of Albuquerque.

- Completed assessment for hydrocarbon contamination and prepared plans for remedial actions for five locations at BIA facilities during the last quarter of 2004.

## Phillip R. Goetze

**July 1996 to August 1999:** Geologist / Environmental Scientist; General Contractor  
**Phillip R. Goetze, Consulting Geologist**, Edgewood, New Mexico

Subcontractor for environmental firms providing on-site technical support and report preparation. Primary contractors included the following:

**Billings and Associates, Inc.**, Albuquerque, New Mexico

Responsible for acquisition of both soil and water data for assessment and for installation of remediation systems for hydrocarbon-contaminated sites.

**Roy F. Weston Inc.**, Albuquerque, New Mexico

Temporary position with responsibilities for on-site supervisor for data acquisition (three drilling rigs), for health and safety monitoring, and for quality assurance of installation of multiple ground-water wells at a Department of Energy tailings remediation (UMTRA) site near Tuba City, Arizona.

**January 1993 to July 1996:** Project Geologist / Project Manager  
**Billings and Associates, Inc.**

6808 Academy Pkwy, E-NE, Suite A-4, Albuquerque, NM 87109

Responsible for acquisition of air, soil, and water data for site assessments related to leaking underground storage tanks throughout New Mexico. Participated and supervised installation, operation, and maintenance of biosparging/SVE remediation systems at five New Mexico locations. Site assessment activities included preparation of health and safety plans, drilling supervision, water and soil sampling preparation, chain-of-custody maintenance, analytical data review and compilation, and report preparation.

**June 1985 to December 1992:** Independent Geologist and Environmental Scientist  
**Phillip R. Goetze, Consulting Geologist**, Albuquerque, New Mexico

Subcontracting services for data acquisition in geophysics and mineral exploration. Primary contractors included:

**Charles B. Reynolds and Associates**, Albuquerque, New Mexico

Performed functions of seismologist and crew chief for consulting group specializing in shallow seismic geophysics for environmental and engineering applications. Projects included USGS hydrologic assessment of Mesilla Bolson; plume and paleosurface mapping at Johnson Space Center facility north of Las Cruces; plume and paleosurface mapping in Mortandad Canyon and TA-22 site, LANL; plume and paleosurface mapping at Western Pipeline facility at Thoreau, NM; plume and paleosurface mapping at UNC Partners mill and tailings site north of Milan; engineering assessment of collapsible soils at Tanoan residential development and along the east edge of Albuquerque.

**Glorieta Geoscience, Inc.**, Santa Fe, New Mexico

Initiated and conducted sampling program for assessing economic potential of low-grade gold occurrence in southwest New Mexico.

**November 1983 to September 1984:** Fluid Minerals Geologist  
**Bureau of Land Management, Department of Interior**, Cheyenne, Wyoming

Temporary detail to Casper office to alleviate backlog of assessments of federal oil and gas leases in Wyoming and Nebraska. Assessments required geologic evaluation of oil and gas potential for lands in Powder River, Wind River, Big Horn and Denver-Julesburg Basins. Determination of "known geologic structures (KGSs)" per Secretarial Order for categorizing of federal oil and gas minerals into competitive and non-competitive status. Deposited as expert witness and provide expert summaries and affidavits for cases before the Interior Board of Land Appeals (example: Case No. IBLA 84-798 for protest of KGS delineation).

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### **June 1982 to September 1983:** Field Geologist

**United States Bureau of Mines, Department of Interior,** Lakewood, Colorado

Assisted primary authors with field inventory and evaluation of mineral occurrences in 15 wilderness areas in Colorado (Central Mineralized Region), southern Wyoming, and eastern Utah. Field work included field mapping and sampling of abandoned mines and mineral occurrences within these areas and adjacent areas with potential impacts on wilderness designation.

### **July 1979 to January 1982:** Geologist

**United States Geological Survey, Department of Interior,** Casper, Wyoming and Lakewood, Colorado

First two years exclusively mapping, drilling, and classifying coal resources in south central Wyoming. Detailed for two years to special team for preparation of impact statement: one of four principle authors for the Cache Creek-Bear Thrust Environmental Impact Statement which documented effects of two proposed oil and gas wells in designated wilderness area near Jackson, Wyoming. Deposited as expert witness in federal court. Final year primarily responsible for assessments of federal oil and gas leases for lands in Wyoming and Nebraska.

### **July 1977 to July 1979:** District Geologist

**Bureau of Land Management, Department of Interior,** Socorro District Office, Socorro, New Mexico

Responsible for District minerals program for federal lands in west central portion of state. Assisted in environmental reports for land exchanges, classification of saleable mineral sites, mining claim validity determinations, inspection of surface reclamation for mineral extractions, inspection of oil exploration and geothermal gradient wells, and assessments for location of water wells in support of grazing projects.

### **EDUCATION:**

New Mexico Institute of Mining and Technology, Socorro, New Mexico

Bachelor of Science in Geology, 1977

Additional Courses: EPA course requirements for Asbestos Inspector (10 years as active inspector); completion of state program for Licensed Contractor (NM; GS-29); EPA course requirements for Lead-Based Paint Risk Assessor (EPA Regions VI and IX; two years as active inspector); GSI Course *Application of Ground Penetrating Radar*; NGWA Course *Monitoring Natural Attenuation of Contaminants*.

### **PROFESSIONAL MEMBERSHIPS, LICENSES, OR CERTIFICATIONS:**

American Association of Petroleum Geologists, Member No. 51,310

American Institute of Professional Geologist, Certified Professional Geologist No. 6,657

Alliance of Hazardous Materials Professionals, CHMM No. 11,401

ASTM International, Member No. 1,314,118 (Voting Member); Committees D18 (Soil and Rock) and E50 (Environmental Assessment, Risk Management and Corrective Action)

OSHA 40HR and 8HR Refresher Hazardous Waste Operations and Emergency Response (Current)

OSHA Hazardous Waste Operations and Emergency Response Manager/Supervisor (Current)

State of Alaska, Licensed Professional Geologist No. 514

State of Arizona, Registered Professional Geologist No. 40,812

State of Nevada, Certified Environmental Manager No. 2,218

State of Texas, Licensed Professional Geologist No. 2,278