



Larry Minter, MSc, BSc, PGeo
Senior Geologist

Education

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| 1976 | MSc Geology,
Texas A&M University |
| 1970 | BSc Geology,
Texas A&M University |

Professional Experience

March 1994 -
January 2007

Canyon Environmental Resources Company

Owner and Principal; Geological and Environmental
Consultant

- Provided services in soil and groundwater assessment and contamination, remediation, environmental permitting and compliance, and general site investigations.
- Provided services to commercial, industrial and government clients including: insurance, banking, oil and gas, mining, real estate development, and dry cleaners, among others.
- Managed over three hundred environmental projects, ranging from small assessments to large site characterization and major remediation programs.
- Some representative environmental project experience includes:
 - regulatory compliance audits at chemical, manufacturing, paint, printing, and oil and gas facilities (oil refineries, gas booster stations, and producing oil and gas properties);
 - project manager for development of an environmental compliance procedures manual for a major petrochemical facility;

Professional Experience, cont'd

- NPDES storm water and industrial wastewater discharge permitting at industrial sites
- groundwater contamination investigations at industrial facilities and landfills;
- groundwater monitor well installation, sampling, and analytical interpretations;
- remediation of arsenic contaminated soils and dust at an industrial site;
- project manager for the delineation and removal of 90,000 yards of contaminated fill from an abandoned airstrip site;
- remedial investigations at Federal and State superfund sites;
- contaminant assessments of a 5,500-acre mining property in Arizona and a 4,000-acre commercial and residential development site in central Texas;
- geologic and hydrogeologic site interpretations and installation of over 60 groundwater monitor wells for permitting of a hazardous waste storage facility in east Texas;
- served as an expert witness in hearings related to a railroad switching facility;
- closure of a salt water disposal pit in west Texas;
- oil and gas drilling operations and natural gas production royalties related to sulfur recovery from sour gas in east Texas;
- authored technical publications in the fields of marine geology, water resources, and mining

June 1990 -
March 1994

TRC Environmental Corp
Manager, Waste Management Programs;
Branch Manager, Austin Office

August 1985 -
June 1990

Woodward-Clyde Consultants
Senior Project Manager; Austin Area Manager

Professional Experience, cont'd

September 1976 – **Gulf Mineral Resources (subsidiary of Gulf Oil)**
 June 1983 Senior Project Geologist - Uranium

- Development and delineation of roll front type uranium deposits in the general Ambrosia Lake, New Mexico area, including the Mt. Taylor, West Largo, and San Mateo ore bodies;
- Development and delineation of unconformity type uranium deposits in the Datil, New Mexico area;
- Prospect generation for roll front type deposits in various areas of New Mexico;
- Prospect generation for collapse pipe and porphyry type uranium deposits in Arizona;
- Successful discovery of a collapse pipe deposit in northern Arizona later mined by another company;
- Familiarity and experience with geophysical exploration techniques including resistivity, magnetics, and induced polarization;
- Familiarity and experience with various drilling and sampling techniques including: mud and air rotary drilling, directional drilling, diamond coring, geoprobe sampling, auger drilling, and split spoon and Shelby tube sampling;
- Supervised hundreds of exploration and development holes for drill cutting observation and geophysical logging (gamma, resistance, and spontaneous potential, primarily, but also density, cement bond, caliper, and neutron, among others). Experience with hole depths ranging from 10 feet to over 7200 feet;
- Geologist responsible for coring, logging, and sampling of borings specifically for mine and vent shaft assessment, dewatering, deep injection of process water, and geotechnical borings for proposed mill and tailings sites;
- Provided expert testimony before New Mexico Environmental Improvement Division related to mineral quality (uranium and coal) beneath proposed uranium mill and tailings sites.

1971 -
 1974

National Oceanic and Atmospheric Administration
 Commissioned Officer

- Assignments included:
- executive officer of a field party conducting hydrographic surveying of the intercoastal waterway of New Jersey;

Professional Experience, cont'd

- one year in charge of the seismic and geomagnetic station at South Pole Station, Antarctica (one of eight resident scientists along with 14 U.S. Navy personnel to 'winter over' during 1972);
- 18 months as a junior scientist in the Marine Geology and Geophysics section at NOAA's Atlantic Oceanographic and Meteorological Laboratory on Key Biscayne near Miami, Florida;
- participated on three major cruises aboard NOAA's oceanographic research vessel 'Researcher', assisting in conducting deep sea coring, bottom photography, topographic and magnetic profiling, current measurements and other oceanographic studies.

1970 -
1971

Texaco Inc
Development Geologist

Professional Designations

Professional Geologist
State of Texas License # 3534

Selected Publications

Minter, L. L., Keller, G. H., and Pyle, T. E., 1975, Morphology and Sedimentary Processes In and Around Tortugas and Agassiz Sea Valleys, Southern Straights of Florida: *Marine Geology*, Vol. 18, No. 1, pp. 47-69.

Keller, G. H., and Minter, L. L., 1975, Cariaco Trench Sediment Geotechnical Properties: *Journal of Sedimentary Petrology*, Vol. 45, No. 1, pp. 292-294.

Minter, L. L., and Mathewson, C. C., 1975, Impact of Water Resource Development on the Sediment Budget of the Brazos River, Texas: *Geological Society of America, Abstracts with Programs*, Vol. 7, No. 7, p. 1202.

Selected Publications, cont'd

Mathewson, C. C., and Minter, L. L., 1981, Impact of Water Resource Development on the Hydrology and Sedimentology of the Brazos River, Texas with Implications on Shoreline Erosion: Bulletin of the Association of Engineering Geologists, Vol. 18, No. 1, pp. 39-53.

Minter, L. L., and Mathewson, C. C., 1988, Mining Preplanning: in Encyclopedia of Earth Sciences, Volume XIV, Field and General Geology, edited by C. W. Finkl, Jr., pp. 599-604.