

Michael K. Lane, PE
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Experience/Expertise

Natural Gas EH&S and Regulatory Compliance...10 years with WPX Energy (formerly Williams Energy) as Sr. EH&S Specialist and Supervisor for Midstream and E&P Business Units; focus on San Juan Basin with regulatory and compliance in three regions of EPA, multiple BLM Districts, States of NM, CO and UT, USFS lands, and Navajo, So. Ute, Ute Mountain Ute, and Jicarilla Apache Reservations; Coordinated Safety and Environmental Strategic planning and facilitated training of operations/engineering groups. Instrumental in the development of an equipment asset inventory system for environmental compliance tracking, selection of an Environmental Management Information System, and Management Framework System for E&P Business Unit.

Principal Consulting Engineer ...14 years of experience launching and shaping successful environmental consulting and design firms; founding principal engineer for three successful firms located in the Four Corners Region of the US; specialized in waste management, hydrogeological studies, ground and surface water quality; regulatory and sustainable solutions for mining, petrochemicals, oil & gas and construction industries

Energy Development Engineer ...5 years of engineering experience aiding the development of heavy oil from tar sands in the California San Joaquin Valley; petrophysical engineering focus on core and log analysis.

Credentials:

Registered Professional Engineer - CA, NM, UT, AZ, CO; Petroleum, Environmental and Civil.
AZ - Registered Remediation Specialist
NM - NORM Oil & Gas Inspector (inactive)
NM - Certified Environmental Scientist (inactive)
CO - Registered Environmental Consultant (inactive)
BLM-RAC Industry Member for Farmington Field Office
San Juan County LEPC

Trade and Professional Affiliations:

Member Society of Petroleum Engineers
Member American Society of Safety Engineers
Member Society of Professional Well Log Analysts (inactive)
Member Society of Civil Engineers (inactive)
Member Air and Waste Management Association (inactive)

Career Summary:

EH&S and Regulatory Compliance Specialist and Environmental Engineer

Williams Midstream – Four Corners Area 2002-2004

EH&S Team Lead/Supervisor and Environmental Engineer

WPX Energy (formerly Williams E&P) San Juan Basin Operations 2005-present

Coordinated environmental compliance programs and permitting, and supervised the safety representative and EH&S compliance coordinator with their programs/work. Added asset value by supporting operations with compliance to environmental, safety and regulatory regulations, enhanced environmental/safety awareness, and development of long-term strategic planning for sustainable operations with regards to EH&S regulations. Assisted operations to meet or beat EH&S metrics and goals. Created value added environmental and safety tools, programs and projects including AssetTrax (Equipment Inventory Management System) and ACTS (Environmental Management and Information System). Abided by Williams Management Framework Systems (System Integrity Program – Midstream, and E&PWAY-E&P) requirements and helps with the development and implementation of its programs. Represented Williams at applicable industry organizations and develops/maintains external relationships through enhanced communication. Developed innovative training techniques to improve knowledge retention. Specialize in EH&S process evaluation and solution implementation.

Founding Principal Engineer

OnSite Technologies Ltd and sister Native-American owned company iina'ba', Ltd., Farmington, NM (1984-2002)

Established environmental consulting and engineering services focused on Indian Lands and Oil & Gas sector. Services specialized in permitting and compliance with NEPA, RCRA (Subtitle C & D), CERCLA, waste management, ground/surface water protection, Stormwater management, Asbestos management, TSCA, HAZMAT, HAZWOPER, NORMs, and SPCC. Firm grew from six employees to 20+ within eight years, and gross revenues increased by >15% annually.

Founding Principal Engineer

Envirotech Inc., Farmington, NM (1990-1994)

Chairman of company Board of Directors. Directed and managed the engineering services for multi-service environmental company. Initial consulting focus on waste management and water resource protection in energy sector and petroleum marketing. Under my leadership firm grew from annual gross revenues of <\$1,000,000 to >\$8,000,000 in less than five years. Principal areas of responsibility included engineering, director of analytical lab services, and environmental consulting services.

Geological/Environmental Engineer

Buena Engineers, Inc.(subsidiary of Earth Systems Inc.) Bakersfield, CA (1988-1990)

Developed, directed and implemented evaluation and testing programs for geo-technical and environmental studies. Field exploration included shallow drilling using direct-drive, mobile auger rigs, mud and air rotary, backhoes, and cable-tool, field testing for insitu soil characterization, rock/soil

classification, geophysical measurements, soil vapor surveys, and ground water monitoring. Managed Analytical Lab testing including soil and water testing for density, moisture, organic, chemical contamination, porosity, permeability, structural strength, shear/swelling potential. Managed Leaking Underground Storage Tank assessment, remediation and associated waste management services

Development Petrophysical Engineer

Shell Exploration & Production Co. (1983-1988), Sacramento/San Joaquin Basins, CA

Development Engineering Team Member – Developed and implemented evaluation programs to determine formation and fluid properties of petroleum bearing reservoir rocks. Typical reservoir formations consisted of shallow (100-5000 feet) unconsolidated sands, shales, and claystones. Core analyses of rock and fluid properties included measurement and determinations of porosity, permeability, density, compressibility, consolidation, cation exchange capacity (CEC), wettability, fluid viscosity, and fluid miscibility. Logging tools and methods utilized included wellsite mudlogging (with field chromatography, mineralogical effervescence) and wireline logs (i.e. Compensated Density, Compensated Neutron, Compensated Sonic, Gamma Ray Spectrometry, Spontaneous Potential (SP), Electromagnetic, Microresistivity, Laterolog, Induction, Thermal Neutron Decay, Nuclear Magnetic Resonance (NMR), and Dipmeters).

Project Areas: Midway-Sunset Field (Tulare and Monterey Shale Development), McKittrick Field (Tulare Tar Sand Development), Belridge Field (Tulare Formation, and Thin-sand Development), Kern Ridge (various sand and shale development), Sacramento/Santa Monica gas fields.

Education

BS-Geological Engineer emphasis Petroleum and Mining (1982), New Mexico Institute of Mining and Technology, Socorro, NM

Industry Courses in Petroleum Engineering (Petrophysics, Production, Reservoir, Geology), Hazardous Waste Management, Environmental Management, Risk Management, Emergency Response and Crisis Management, Air Quality, Water Quality, Hydrogeology,. Specifics upon request.