



## GEOTECHNOLOGY AND ENGINEERING DEPARTMENT 8862

### DONALD CONLEY, MANAGER

The Geotechnology and Engineering Department provides technology to support the Department of Energy's Strategic Petroleum Reserve and industry in the planning, development, optimization, risk mitigation and operation of large underground salt caverns for the storage of hydrocarbons. Our expertise includes characterization of crude oil vapor pressure emissions control, oil chemistry and cavern salt leaching. The department boasts a robust geomechanical modeling capability of in-situ stresses and other cavern

dynamics to monitor and predict cavern integrity. We are a capability center for wellbore integrity work, offering an impressive portfolio for oil/gas/storage well leak remediation and prevention. Other key enablers include an effective spatial and geostatistical analysis capability and research that involves leading and interpreting high energy density underground chemical energetics experiments.