

**LELAND DAVIS**  
**Operations Manager/  
Environmental Geologist**  
**Geologica Geothermal Group, Inc**



Leland Davis has nearly 10 years of experience in the Geothermal and Environmental Consulting Industry. Mr. Davis has provided technical geological, environmental and geochemical office and field support for resource analysis, reservoir modeling, and resource exploration for geothermal projects as well as geological and hydrogeological, tasks on environmental, redevelopment, and water resources projects. He has field experience at a broad range of locations in California, the San Francisco Bay Area, the Western US, Turkey, Southeast Asia, and the Caribbean.

### **Education**

- B.A. Geology, Middlebury College

### **Languages**

- English

### **Select Geothermal and Environmental Experience Highlights**

- Prepared an Environmental Impact Mitigation Assessment for Geothermal Exploration well drilling of the first three geothermal exploration wells drilled on the island of Dominica for a high enthalpy resource. Conducted a site assessment of Environmental Impact Mitigation at drilling sites in the country.
- Contributed to hydrological, geochemical and geological evaluation of existing conditions, potential impacts and possible mitigations of expanded high enthalpy geothermal development, Long Valley-Casa Diablo, California, U.S., for environmental documentation and permitting.
- Prepared a Preliminary Environmental Impact Assessment for a hypothetical high enthalpy geothermal power plant development in Kenya.
- Evaluation of Geothermal Resource Potential and Temperature Gradient Drilling Oversight, Island of Tutuila, American Samoa
- Geothermal Resource Assessment high enthalpy resource and environmental due diligence, resource and development cost estimates of 330 MW developments in a large Geothermal License Area, North Sumatra.
- Review of medium and high enthalpy Geothermal Opportunities, Java, Sumatra and North Sulawesi, Indonesia.
- Preliminary high enthalpy Resource Assessment and Exploration Plan Review, Well Test Design, Planning and Execution, Geophysical, Geochemical and Geologic Modelling for Resource Assessment, Gediz-Alasehir Graben, Turkey.
- High enthalpy Resource Due Diligence of Confidential Field in Biga Peninsula, Turkey.

- Contributed to a preliminary high enthalpy resource evaluation, developed conceptual model of reservoir, production and injection strategy for a Feasibility Study. Provided flow testing and flow test evaluation, geochemical sampling environmental assessment and resource development plan for the 60MW expansion of the Kizildere Geothermal Field, Denizli Province, Turkey.
- Preliminary high enthalpy Resource Assessment of and Interference Well testing at Alasehir Geothermal Project, Gediz Graben, Turkey. Interference testing and analysis of Alasehir wells.
- High enthalpy Geothermal Resource Development Study Feasibility of Alasehir Geothermal Project, Gediz-Alasehir Graben, Turkey.
- Conducted a preliminary evaluation of the potential medium and high enthalpy geothermal resource potential on Tutuila Island, American Samoa.
- Contributing to a preliminary high enthalpy resource evaluation, conceptual model of reservoir, production and injection strategy, environmental assessment and resource development plan for a feasibility study of geothermal power development of the Alasehir Geothermal Field, Manisa Province, Turkey.
- Analyzed high enthalpy reservoir properties and resource changes using geochemical data from steam and two phase wells in support of reservoir management, including sampling, tracking, and data evaluation a of injection fluids, boiling and reservoir saturation at the high enthalpy Coso geothermal field, California, U.S.
- Participated in a preliminary medium and high geothermal resource evaluation of potential geothermal resource areas across the state of Colorado, U.S. Worked closely with client to explore the KGRAs in the state and create a possible development strategy for geothermal power generation in Colorado. Conducting a preliminary feasibility study of a potential geothermal resource in south-central Colorado.
- Performed a state-wide survey of medium and high enthalpy geothermal potential in Arizona, U.S. for a major utility. Collected geochemical samples, reviewed available data and provided a preliminary resource review of Clifton Hot Springs, Arizona.
- Contributed to a preliminary medium and high geothermal resource assessment of a confidential client properties throughout Nevada, U.S. Supported client's geothermal leasing program. Provided geothermal resource exploration plans for multiple geothermal and gold prospects including one active mine in Nevada. Performed geothermal exploration activities at an active gold mine in Nevada.
- Contributed a data review and preliminary high enthalpy resource assessment, including modeling and mapping of the Star Peak-Rye Patch-Humboldt House geothermal resource area Humboldt County, Nevada, U.S.
- Currently evaluating Coso reservoir geochemistry for evaluation of the high enthalpy resource characteristics related to production as part of U.S. Navy's monitoring of the high enthalpy Coso Geothermal Resource in California, U.S.
- Contributed to design criteria for a 45 MW high enthalpy geothermal power project, well test analysis reports, a conceptual resource model, and numerical simulation for the Germencik Geothermal Field, Aydin Province, Turkey.
- Contributed to data evaluation including high enthalpy reservoir characterization, well capacity, scaling potential at Gumuskoy, Ortaklar, Turkey.
- Evaluated the reservoir capacity of a small medium enthalpy geothermal field in Paisley, Oregon. Activities included planning and conducting single and multi-well pressure transient interference tests, fluid and gas sampling, and downhole temperature and pressure surveys.