

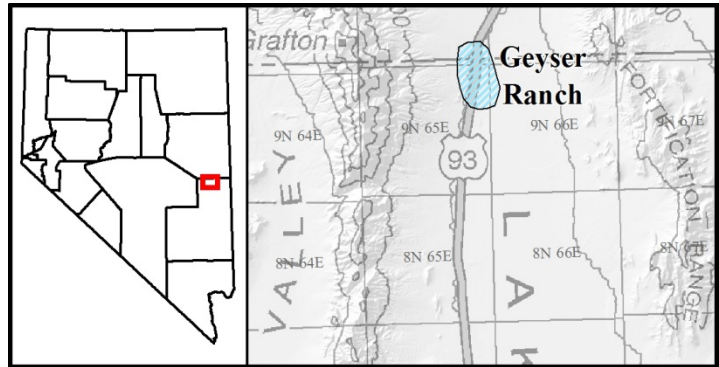
Site Description

Lake Valley

(updated 2014)

Geologic setting:

Lake Valley is located within Lincoln County, Nevada and is approximately 80 kilometers to the northeast of the small town of Caliente. The rocks that make up the area range in age from Precambrian to Quaternary and are composed of metamorphic and sedimentary rocks with the metamorphic rocks being some of the oldest found in Nevada. The rock types found have been identified as medium to high grade metasedimentary gneiss and schist and lesser amounts of marble associated with gneissic granite, pyroxenite, hornblendite, migmatite, and pegmatite (Tingley, 1989). Lake Valley is a Quaternary age lake bed bounded on the east by the Tertiary volcanics of the Fortification Range and on the west by the Scheel Creek Range. The southern Scheel Creek Range along northern Lake Valley is a high block composed of Cambrian quartzite, limestone, and shale, bounded by bounded by the Coyote Wash thrust fault on the east and the Cave Valley thrust fault on the west (Tschanz and Pampeyan, 1970).



Geothermal features:

Geyser Ranch: A complex of slightly warm springs is found at Geyser Ranch in northern Lincoln County. The springs are mostly in Sec. 1 and 12, T9N, R65E at the north end of Lake Valley, along the toe of an alluvial fan from the Schell Creek Range. Waring (1965) reported temperatures of 18.3- 21.1°C, though Rush and Eakin (1963) reported the largest spring was no warmer than 20°C. The total flow rate of the complex is reported to exceed 17,000 L/min. The water is used for irrigation (Rush and Eakin, 1963). The springs are at the low end of what would be considered thermally anomalous for this area.

Leasing information:

N/A

Bibliography:

[Rush, F.E., and Eakin, T.E., 1963, Ground Water Appraisal of Lake Valley in Lincoln and White Pine Counties, Nevada: Nevada Department Conservation and National Resources, Ground Water Resources Reconnaissance Series Report 24, 29 p.](#)

[Tingley, J.V., 1989, Mineral Resources of the Overton 30' by 60' Quadrangle: Nevada Bureau of Mines and Geology Report 45, 19 p.](#)

[Tschanz, C. M., and Pampeyan, E. H., 1970, Geology and Mineral Deposits of Lincoln County, Nevada: Nevada Bureau of Mines and Geology Bulletin 73, 188 p.](#)

Site Description

[Waring, G.A., 1965, Thermal Springs of the United States and Other Countries of the World - A Summary: U.S. Geological Survey Professional Paper 492, 383 p.](#)