



## Site Description

### Panaca-Pioche

(updated 2010)

**Geologic setting:** Panaca is along the northeast extension of the Menard Lake Fault (Tschanz and Pampeyan, 1970, plate 3), which follows Meadow Valley Wash.

#### Geothermal features:

**Bennett Springs:** Bennett (Bennetts) Springs in SE $\frac{1}{4}$  SW $\frac{1}{4}$  Sec. 7, T2S, R67E, have a temperature of 21.1°C and a flow rate of 38 L/min. There are two springs along a concealed fault. The water is used for cattle (Carpenter, 1915, p. 51). The spring location was reported incorrectly in Garside and Schilling (1979).

**Delmues Springs:** The two Delmues springs are about 9 km northeast of the Panaca Warm Spring in the NE $\frac{1}{4}$  NW $\frac{1}{4}$  SE $\frac{1}{4}$  Sec. 13, T1S, R68E. They are apparently along the northeast extension of the Menard Lake Fault (Tschanz and Pampeyan, 1970, plate 3). The reported temperature is 21.1°C with a flow rate of some 900 L/min. The water is used for irrigation (Hardman and Miller, 1934; Rush, 1964). Reed and others (1982, p. 41, 106) reported the flow rate to be 757 L/min, and estimated the reservoir temperature to be 24°C.

**Flatnose Ranch:** The Flatnose Spring is about 9.6 km northeast of the Delmues Springs in the SE $\frac{1}{4}$  Sec. 34, T1N, R69E. Temperatures up to 25°C and flow rates up to 1,818 L/min are reported, and the reservoir is estimated to be the same temperature (Reed and others, 1982, p. 106). The spring is along a buried fault under Tertiary lava. The water is used for irrigation (Phoenix, 1948). Reed and others (1982, p. 41) reported the flow rate to be 1,510 L/min.

#### **Lime Spring:**

**Panaca Warm Springs:** Panaca Warm Springs are in the center N $\frac{1}{2}$  Sec. 4, T2S, R68E just north of the town of Panaca. It has reported temperatures of 29-31°C, and flow rates ranging from 8,000 to 28,000 L/min. The water issues from a fault contact between alluvium and Paleozoic limestone. The town of Panaca uses the spring as its water supply (Carpenter, 1915; Phoenix, 1948a; Rush, 1964). In addition, the town of Panaca maintains a 28°C pond for public bathing (Williams, 1996, p. 56). Warm water (21-23°C) occurs in a least six wells north and south of the spring, in Secs. 32 and 33, T1S, R68E, and Secs. 5, 7, and 8, T2S, R68E.



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Leasing information:

