



## Site Description

### Silver Springs

(updated 2010)

#### Geologic setting:

#### Geothermal features:

In May 2002, UNR staff measured a Silver Springs-area pool at 28.3°C (NW¼ SE¼ Sec. 17, T18N, R25E). The upwelling source could not be identified due to low flow, and no sample was collected. According to landowners, the spring temperature is 32°C, like an adjacent well. The spring was measured at 34°C in 1984, though the thermometer's accuracy is questionable.

In May 2008, UNR field staff investigated reports of a 71°C water well ~1.5 km north of the warm spring. Two wells, a 29.3°C house well and a 31.6°C business well, were identified ~0.8 km north of the 34.0°C spring. UNR staff sampled the house well from a 2" diameter hose which flowed an estimated 20 L/min. Geothermometer values are high, at 132.1°C (Na-Ca-K-Mg) and 145.1°C (quartz). Location coordinates are 119.20569 W, 39.4285 N (NAD83). The business well is operated by Granite Propane Company, and reaches 60°C at 20m depth. Water at the pump spigot is clean, unscented, and warm, though significantly cooler than aquifer temperatures due to the holding tank. This tank holds water until sufficiently cool to come in contact with the well pump – five well pumps were damaged prior to tank installation. Geothermometer values are high, at 148.8°C (Na-Ca-K-Mg) and 148.6°C (quartz). Location coordinates in NAD83 are 119.20569 W, 39.4285 N.

#### Leasing information: