

LAVA FOUNDATION WELLS

ACCOMPANIED BY MIKE

Narrative by Cindy Bird

January 3, 2003

- **GPS FILE NAME:** HOTWEL 9:46AM 1-3-03
N42 degrees 37.169 minutes W112 degrees 00.391 minutes

The hot well is located at the foundation. It supplies water to the showers and the ramped sidewalk at the foundation. It has a 2 hp submersible pump. They pump 35 GPM out of the well. The GPS tag on the wellhead was A0009940.

- **GPS FILE NAME:** IRGWEL 9:57PM 1-3-03
N 42 degrees 37.194 minutes W112 degrees 00.138 minutes

GPS point was taken approximately 15 feet south of wellhead. I had to move away from the pump house and trees to collect the point.

The irrigation well is located at the Cottonwood Campgrounds. The campground is located south of highway 30 as your leaving lava heading over Fish Creek Summit. The pump was a 30 hp Vertical 3 phase pump, Model F403A, I.D. No. Y06Y131R006F. This well is used to irrigate all of the parks in Lava and down to the swimming pool. There is a 6" buried mainline in town and when it gets to the pools it's reduced to a 4" then to a 2". This irrigation well is also used to fill the swimming pool. The pool is opened no later then Memorial weekend sometimes as much as a month earlier depending on the weather. The large pool holds 780,000 gallons and the small pool holds 180,000 gallons.

- **GPS FILE NAME:** POOLHT^{H/L} 10:18PM 1-3-03
N 42 degrees 37.255 minutes W112 degrees 00.569 minutes.

GPS point was taken approximately 20 feet south of pump house away from the building interference.

The pump house is located west of the footbridge in Lava. Two systems are located in the pump house and used to heat the swimming pool year round.

First system: At the discharge for the hot pools, Mike can put some boards in the concrete box and divert the water to a catch basin in the pump house where it is then pumped into a 6" pipe with a 20 hp Marathon Electric pump, Model XA286TTDR7697AN, up to highway 30 and then dumps into a 12" pipe that gravity flows to the swimming pool. Or they have a bypass that allows the water to flow back into the Portneuf River.

Second system: There are several springs that flow into a catch basin in the pump house and is pumped with another 20 hp pump Marathon Electric pump (Different Pump) through a 8" pipe up to the highway and again dumped into a 12" pipe that gravity flows to the pool. This system also has a bypass that goes by the condos and back into the Portneuf River. The model number was not legible on this pump or the backup pump.

Season of use for this water is 1/1 to 12/31. They run water through the pool year round to keep it from freezing. The pressure on the pump during my visit was 26.3 psi. Mike said he always run it at 26 psi. Someone from water resources had been down trying to figure out how much water was going through the system. On the west wall inside the pump house was 10-14-85, 807,000 gallons per 24 hr period, and 33, 626 per hour. Mike recalls that this was done by the bucket and stopwatch method.

29-10219 not recommended here - its the hand pump
© Wish were for washing