

[illegible]

E. NARRATIVE/REMARKS/COMMENTS

An artesian hot-water well, with a booster pump to supply additional operating pressure, provides geothermal water to Magic Hot Springs Resort. There are 20 hot baths (small concrete rooms with a hot pool to sit or stand in), 2 outdoor pools, a small dirt pond with alligators (being re-worked during my exam & not in use), 6 dome-shaped structures for camping, heated sidewalks, heated restrooms & dressing rooms, sinks & washing machines, heating & culinary uses in 2 homes near the well. This is all in the NW/NE Sec. 31.

There is a separate campground in the NW corner of the NE/NE Sec. 31. Geothermal water heats 2 homes & a restroom here, and provides a small flow of water to 2 small fish ponds at the park. Hot water is not provided to the camping spaces, however.

Water used for the pools, hot baths, etc., goes to Salmon Falls Creek for cooling (in small pipelines) before entering the pools, etc.

All the available water in this well is used at this facility. The measured flow represents the sustainable yield of the well. The water is used as efficiently as possible wherever the water and/or heat are needed at any given time. It is not possible to determine the annual volume for the various uses, but the overall diversion volume remains the same.

Owner stated that this well is not used for irrigation.

Customers can fish in some of the ponds for the few tilapia that are present. I am calling this recreation rather than fish propagation, which implies a concerted effort to raise quantities of fish.

Aesthetic use refers to the alligator pond.

Have conditions of permit approval been met? ☒ yes ☐ no



Geothermal Well & Outlets To Various Uses
By J E Stanton 6-5-2002 Permit 47-7829



Outlets For Various Uses
By J E Stanton 6-5-2002



Geothermal Well, Pump For Additional Pressure Looking ~~NE~~
 By J E Stanton 6-5-2002 Permit 47-7829 ~~S~~



Hot Baths & Swimming Pool West of Well Looking ~~SW~~
 By J E Stanton 6-5-2002 ~~N~~



Heated Camping Domes SE of Hot Well Looking ~~SE~~^W
 By J E Stanton 6-5-2002 Permit 47-7829



Alligator Pond South of Hot Well Looking ~~South~~ West
 (Currently Undergoing Reconstruction)
 By J E Stanton 6-5-2002



More Hot Baths & Other Facilities ^NWest of Well Looking ^{NW}NE
By J E Stanton 6-5-2002 Permit 47-7829 ^E



Geothermally-Heated Home ^{East} of Hot Well Looking ^{Easterly}South
By J E Stanton 6-5-2002 ^{SE}



Interior View of Hot Bath (19 total)
By J E Stanton 6-5-2002 Permit 47-7829



Cooling Pipes In Salmon Falls Creek West of Hot Well
By J E Stanton 6-5-2002



Discharge of Used Hot Water Toward Salmon Falls Creek
By J E Stanton 6-5-2002 Permit 47-7829



Discharge of Hot Water Toward Salmon Falls Cr.
By J E Stanton 6-5-2002



Un-finished Hot Baths At West End of Facility
By J E Stanton 6-5-2002 Permit 47-7829



Heated Restroom At Campground NE of Hot Well Looking West
By J E Stanton 6-5-2002



Campground NE of Hot Well (No Hot Water Outlets For Camp Spaces)
By J E Stanton 6-5-2002 Permit 47-7829



Fish Pond At Campground NE of Hot Well
By J E Stanton 6-5-2002



Another Heated Pond At Campground (white hot-water pipe at right)
By J E Stanton 6-5-2002 Permit 47-7829



Heated Residence Near SE Corner of Campground Looking East
By J E Stanton 6-5-2002

LD02

No.02

LOG NAME:

START :06-05 10:20

END :06-05 10:30

INTERVAL:00:00:01

6/5/2002 10:20

+4.012E+0 ft/s

+6.188E+0 gal/s

+3.712E+2 gal/m

+TOTAL 0010767 gal

-TOTAL 0000000 gal

NORMAL

6/5/2002 10:21

+3.982E+0 ft/s

+6.141E+0 gal/s

+3.685E+2 gal/m

+TOTAL 0011114 gal

-TOTAL 0000000 gal

NORMAL

6/5/2002 10:22

+4.007E+0 ft/s

+6.179E+0 gal/s

+3.707E+2 gal/m

+TOTAL 0011485 gal

-TOTAL 0000000 gal

NORMAL

6/5/2002 10:23

+4.016E+0 ft/s

+6.194E+0 gal/s

+3.716E+2 gal/m

+TOTAL 0011859 gal

-TOTAL 0000000 gal

NORMAL

6/5/2002 10:24

+4.018E+0 ft/s

+6.197E+0 gal/s

+3.718E+2 gal/m

+TOTAL 0012233 gal

-TOTAL 0000000 gal

NORMAL

6/5/2002 10:25

+3.961E+0 ft/s

+6.109E+0 gal/s

+3.665E+2 gal/m

+TOTAL 0000143 gal

-TOTAL 0000000 gal
NORMAL

6/5/2002 10:26

+3.957E+0 ft/s
+6.102E+0 gal/s
+3.661E+2 gal/m
+TOTAL 0000512 gal
-TOTAL 0000000 gal
NORMAL

6/5/2002 10:27

+3.989E+0 ft/s
+6.152E+0 gal/s
+3.691E+2 gal/m
+TOTAL 0000849 gal
-TOTAL 0000000 gal
NORMAL

6/5/2002 10:28

+4.007E+0 ft/s
+6.179E+0 gal/s
+3.707E+2 gal/m
+TOTAL 0001220 gal
-TOTAL 0000000 gal
NORMAL

6/5/2002 10:29

+3.933E+0 ft/s
+6.066E+0 gal/s
+3.639E+2 gal/m
+TOTAL 0001588 gal
-TOTAL 0000000 gal
NORMAL

6/5/2002 10:30

+4.049E+0 ft/s
+6.244E+0 gal/s
+3.746E+2 gal/m
+TOTAL 0001958 gal
-TOTAL 0000000 gal
NORMAL

6.65" OD

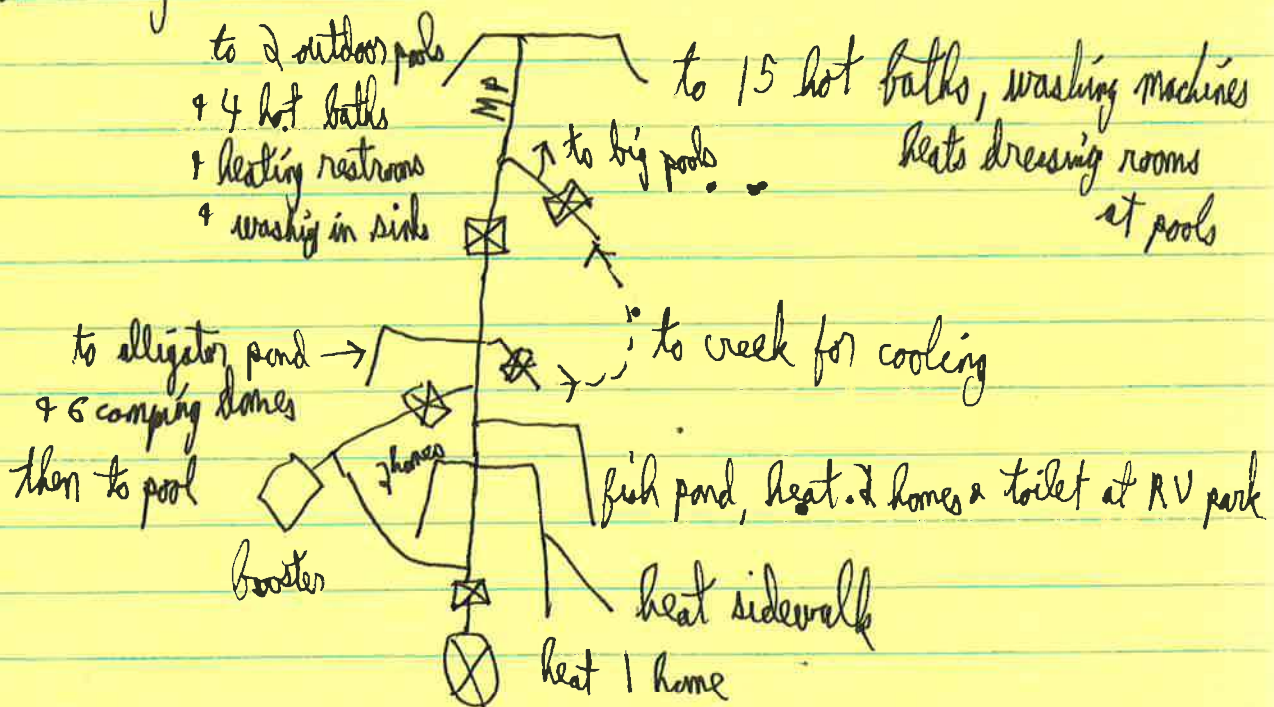
now will put in flow meter if required.

114° at MP = 5043"/sec velocity

4.197
~~5.374~~ spacing on ^{large} ~~small~~ transducer

360-382 gpm 4482 gal/12 min. = peak flow = 373.5 gpm ave = 0.83 cfs

Outflow from pools goes into some natural ponds with a few fish, & then into creek. outflow from RV park goes to fish pond & then into stream, hot spring runs directly to hot pools & then into ponds & creek. no irrigation. fish in ponds for customers to fish for at no charge. alligators in one pond for viewing



2 delivery uses (showers, etc)

run 1/2" line along with drain line to field across creek

Baldor 7 1/2 hp booster motor F0103023005

Berkeley pump Model B3ZP15 #1 9338

total of 20 small hot baths