

6/2013

IN-OFFICE BENEFICIAL USE EXAM REPORT

Permit No. 63-31526

Prepared by VICKY MUSIC

Date 4-8-2014

Same as permit Different than permit

Owner Name	☐	☒ <u>HOA REQUESTED NAME CHANGE</u>
Owner Address	☐	☒ <u>HOA REQUESTED ADDRESS CHANGE</u>
Source	☒	☐ _____
Tributary	☒	☐ _____
POD	☒	☐ _____
POU	☒	☐ _____
Beneficial Use(s)	☒	☐ _____

Exam Fee Required for Permitted Rate \$50

Exam Fee Paid \$50

Overlaps ☐ No ☒ Yes, summarize SEE MEMO

Amendment ☒ No ☐ Yes, summarize _____

Technical Confirmation Tools

ArcMap (Bing)	☒	GPS	☒
Taxlot	☒	Photos	☒
Well Log	☒	Diagrams	☒
Other	☒ explain: <u>FIELD EXAM</u>		

Conditions/Comments SEE ATTACHED MEMO

Exam Date Entered ☒

Draft License Created ☒

Shapes Updated ☒

INTEROFFICE MEMORANDUM

TO: LICENSING FILE 63-31526
FROM: VICKY MUSIC
SUBJECT: FIELD EXAM
DATE: MARCH 8, 2014

This exam qualifies as an in-house per the Department rules; however, I conducted a field exam to verify the location of the PODs and the place of use, and to understand how these uses were incorporated into the geothermal delivery system. Dale Pippitt, President of the Paradise Pines HOA, accompanied me on the exam. He submitted a request that the contact and address for the rights be changed to the HOA registered agent and secretary, Julene Walker. Proof was timely filed.

The permit was issued for recreation use for a soaking pool. The PODs are two geothermal springs that are also the PODs for right no. 63-10559 and 63-12316. One of the springs is in the middle of the Trinity Pines swimming pool so it was not possible to get a GPS reading. GPS coordinates for the second spring are: N 43.55291, W-115.26951.

Water from the "lower spring" in the swimming pool, and is pumped via 5 pumps in the lower pump house. There are 4 pumps in the upper pump house. All of the pumps are the same make and motor pump and motor, 3 hp submersible Sta-rite pumps rated at 20 gpm. Mr. Pippitt provided information regarding the pumps and motor specifications, and diagrams of the delivery system.

Flow and volume

Mr. Pippitt provided information about the size of the pool and its operation. The pool is 23 feet x 24 feet. It is 3 feet deep at the shallow ends and 5 feet deep at the deep end.

Water is pumped continuously from the springs into the soaking pool at 15 to 35 gpm to maintain the temperature during the coldest 6 months per year. The rest of the year, water is pumped into the pool from a inlet pipe with return water from the cabins, at a maximum 50 gpm. Flow is $50 \text{ gpm} + 35 \text{ gpm} = 85 \text{ gpm}$ / 448.8 gallons per minute = 0.18 cfs. The diversion rate recommended for licensing is the permitted 0.10 cfs.

The volume is approximately $23 \text{ feet} \times 24 \text{ feet} \times 4 \text{ feet deep average} = 2208$ / 325,850 = 0.007 af capacity.

Makeup water is:

Average $25 \text{ gpm} \times 60 \text{ minutes per hours} \times 24 \text{ hours per day} \times 180 \text{ days} = 6,480,000$ gallons per year / 325,850 = 19.9 af. The water from the cabins that is secondarily used flows at 50

$\text{gpm} \times 60 \text{ minutes per hours} \times 24 \text{ hours per day} \times 180 \text{ days} = 12,960,000 \text{ gallons per year} / 325,850 = 39.9 \text{ af.}$

Total annual volume to be licensed is $0.007 \text{ af capacity} + 19.9 \text{ af} + 39.9 \text{ af} = 59.8 \text{ af}$

I did not calculate evaporative loss because the estimates provided by Mr. Pippitt are inexact, the surface area of the pool is so small, and the calculations don't take into account hot water. My calculations err in favor of the HOA, and I believe account for the evaporative loss.

Also, in his letter to me dated April 3, 2014, Mr. Pippitt stated that, " [the HOA] is assessed a consumptive use, due to evaporation, by irrigation District 63, on a yearly basis." This statement indicates that the condition requiring the HOA to lease storage water to provide 1 af mitigation has been met.

Conditions have been met and no changes are proposed.



63-31526 -- 2013 NAIP. PLACE OF USE AND PODs [THE SPRINGS] ARE LABELLED. SEVERAL DIAGRAMS OF THE DIVERSION SYSTEM WERE PROVIDED BY PERMITTEE AND ARE IN THE FILE.