

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No. 47-7575

1. Owner: MARY V. KIENLEN

Phone No. 543-8463

Current Address: 4604A RIVER ROAD BUHL, ID 83316

2. Accompanied by: MARY KIENLEN *

EXAM DATE: 12/28/1982

* ADDITIONAL VISIT MADE TO PROPERTY ON 6/24/2005

* 6/24/2005

Address: _____

Phone No. _____

Relationship to Permit Holder: _____

3. Source: GROUNDWATER

tributary to _____

B. OVERLAP REVIEW

1. Other water rights with the same place of use: SRBA CLAIM 47-7174 B (?)

2. Other water rights with the same point of diversion: SEVERAL

C. DIVERSION AND DELIVERY SYSTEM

1. Point(s) of Diversion:

Ident No.	Gov't Lot	1/4	1/4	1/4	Sec.	Twp.	Rge.	County	Method of Determination/Remarks
		NE	SE	NE	9	9S	14E	TWIN FALLS	GIS/SDE
									SITE TAG # A0001476

2. Place(s) of Use:

Indicate Method of Determination GIS

TWP	RGE	SEC	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
* 9S	14E	9				D													1.4
						G													
						R													
						1.6													
* 9S	14E	10								0.2									0.2
										0.2									

D = DOMESTIC, R = RECREATION, G = HEATING

TOTAL = 1.6 acres

* PER ARCMAP 4/20/2009

3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe i.d. as applicable.

Scale: 1" = _____

☒ Copy of USGS Quadrangle Attached Showing location(s) of point(s) of diversion and place(s) of use (required).

☒ Aerial Photo Attached (required for irrigation of 10+ acres)

☒ Photo of Diversion and System Attached

4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
ARTESIAN			HOT	WATER	

*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

1.

SEE 12/28/82 FIELD NOTES

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date

2. Measurements: TOTAL FLOW MEASURED @ 0.22 cfs

E. NARRATIVE/REMARKS/COMMENTS

SEE 7/13/2005 LICENSING EXAM
MEMO

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

MEMORANDUM

TO: Water Right File 47-7575

FROM: Corey Skinner

DATE: July 13, 2005

SUBJECT: Licensing Exam

The licensing exam for permit 47-7575 was apparently performed on December 28, 1982 by examination of notes in the permit file. However, there was not enough information in the file to complete a licensing recommendation so I contacted the permit holder, Mary Kienlen, a couple of times to discuss her system and visited the property on June 24, 2005 to take photographs to document the development. The licensing recommendation was based on field notes of measurements performed on December 28, 1982 and information that I obtained later during my discussions with the permit holder and my visit to the property. The point of diversion consists of an artesian well (site tag # A0001476) that serves several different lots (systems) along River Road in the Snake River Canyon northwest of Buhl, in the Banbury Hot Springs GWMA. One of these lots is owned by Ms. Kienlen and served by the well (Kienlen system).

The entire flow through the Kienlen system was measured at 0.22 cfs in 1982 (field notes in file). The permit allows for domestic use up to 0.02 cfs and one home has been constructed on the property and is served by the system so 0.02 cfs and 0.6 afa (in house use) is recommended for domestic use. Ms. Kienlen indicated that she heats a single story 3700 square foot home and 625 square foot garage (uninsulated) with the water diverted from the well. Examination of aerial photography and observation of the home and garage during my June 24th visit reveals no reason to dispute the information provided by Ms. Kienlen. Based on calculations outlined in Application Processing Memo # 23 and Rick Sterling's 3/25/1988 memo to Terry Blau, water diversion(s) of 0.15 cfs and 13.9 afa can be justified for heating the home and garage.

Ms. Kienlen, indicated that when the home &/or garage are being heated, heating wastewater is used in the pool. However, when water is not being used for heating the home and garage, such as some times during the summer, water is diverted directly into the pool and bypasses the heating system. This amount of water, not used for heating but used in the pool, seems appropriate as to what can be recognized as a recreation use (water used in the pool). Ms. Kienlen indicated that it takes her about 10 hours to fill her pool up in the summertime if the pool is empty, and then the water just continues to flow through the pool. The 1982 field notes indicate that the pool has a volume of 1800 cubic feet (15' x 30' x 4'). A rate of 0.05 cfs will fill the pool in a 10-hour period, so 0.05 cfs is recognized as the recreation (pool) use. Potentially, and logically, the pool could be in use year round, so a 24-hour annual volume for 0.05 cfs equal to 36.2 ac-ft is recommended for recreation use. Note that this volume is not in addition, to the heating use, but represents the maximum amount if no heating use were to occur. Therefore, the heating use (13.9 afa) and the recreation use (36.2 afa) should be limited to a combined total of 36.2 afa (maximum amount of water recognized as a beneficial use in the pool).

Using aerial photography and ARCVIEW, it appears that 1.6 acres are irrigated on Ms. Kienlen's lot. Based on an allowance of 0.03 cfs per acre for small acreages and the standard irrigation volume of 4.0 afa/acre for the area, 0.04 cfs and 6.4 afa is recommended for irrigation use. Permit 47-7575 allows for up to 2.0 acres of irrigation in the SE ¼ of the NE ¼ of Section 9 (T09S, R14E), but according to the Department's tax lot information in ARCVIEW, Ms. Kienlen's lot is only 1.73 acres in size and part of it is located in the SW ¼ of the NW ¼ (Govt. Lot 2) of Section 10. This portion of the lot located in Section 10 includes part (0.2 acre) of the recommended irrigation place of use. Therefore a licensing amendment may potentially be needed to correct the place of use to include irrigation in Section 10. However, more than likely this potential need for a licensing amendment is a result of the accuracy of greater technology, rather than an actual change in the intent of the permit, so a licensing amendment (and \$50.00 fee) may not be required.

Ms. Kienlen has filed an SRBA claim, 47-7174B, for domestic and heating use that could be a potential overlap in the place of use recommended for licensing of permit 47-7575. However, examination of the 47-7174 license, reveals that it was licensed for only fish propagation use (probably on an adjacent property). The 47-7174 licensing exam indicates that there was no uses from the well other than fish propagation use, at the time of the exam. In addition, there are competing SRBA claims based on 47-7174 for fish propagation use, and the claims total more than the original licensed amount. Therefore it appears that Ms. Kienlen's claim based on license 47-7174 has no basis, and should probably ultimately be disallowed. This would result in no place of use overlap with the 47-7575 licensing recommendation. IDWR RECORDS SHOW 47-7174B AS DISALLOWED

As mentioned previously, the well (site tag # A0001476) that serves as the point of diversion for 47-7575 also serves other lots (systems). Unfortunately, Department records are not entirely clear as to what other lots are served and what other permits, rights, and claims, are served by the diversion for permit 47-7575. During the license exam of 47-7566 (which also uses the same well) it was reported that eight or nine different parties used the same well. During a conversation with Ms. Kienlen, she indicated that she was under the impression that several other parties also used the well. I am confident that permits 47-7575 (Kienlen), 47-7566 (Tvrđy property now owned by Eddington), and 47-7567 (Stoddard) utilize water from the same well. It also appears that right 47-7174 may utilize the same well (site tag # A0001476) that serves as the point of diversion for 47-7575. Department records indicate that there are at least two other geothermal wells in the same 40-acre tract as the well (site tag # A0001476) that serves as the point of diversion for 47-7575. Department water right and SRBA records are not clear as to what records are diverted from exactly what well. After examining the Department's records, I am uncertain as to what other records definitely utilize the well (site tag # A0001476) as a point of diversion also.

ARCMAP
SHOWS
PARCEL IN
SENE
ONLY
4-20-07
P.S.

4/20/07 P.S.

[illegible]

Photo of Diversion and System Attached

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
ARTESIAN			HOT WATER		

SEE 12/28/82 FIELD NOTES

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date

2. Measurements: TOTAL FLOW MEASURED @ 0.22 cfs

F. FLOW CALCULATIONSX Additional Computation Sheets Attached

Measured Method:

0.22 cfs per 12/28/82 Field Exam
 0.15 cfs for heating home & garage (see attachments)
 0.03 cfs (1.6 acres) = 0.048 cfs (irrigation) $\approx$ 0.04 cfs

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 1.6 \times 4.0 = 6.4 \text{ afa}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = 0.04(246) \times 1.9835 = 19.5 \text{ afa}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 6.4 \text{ afa}$$

2. Volume Calculations for Other Uses: (see attached calculation sheets for heating)

POOL (REC)
 0.05 cfs (1.9835 ac-ft/day) (365 days) = 36.2 ac-ft, however, heating use from home & garage goes to pool.

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
DOMESTIC	1/1	12/31	0.08 cfs	0.6 afa
IRRIGATION	3/15	11/15	0.04 cfs	6.4 afa
HEATING	1/1	12/31	0.15 cfs	13.9 afa
RECREATION	1/1	12/31	0.05 cfs	36.2 afa
Totals:			0.22 cfs	43.2 afa

2. Recommended Amendments

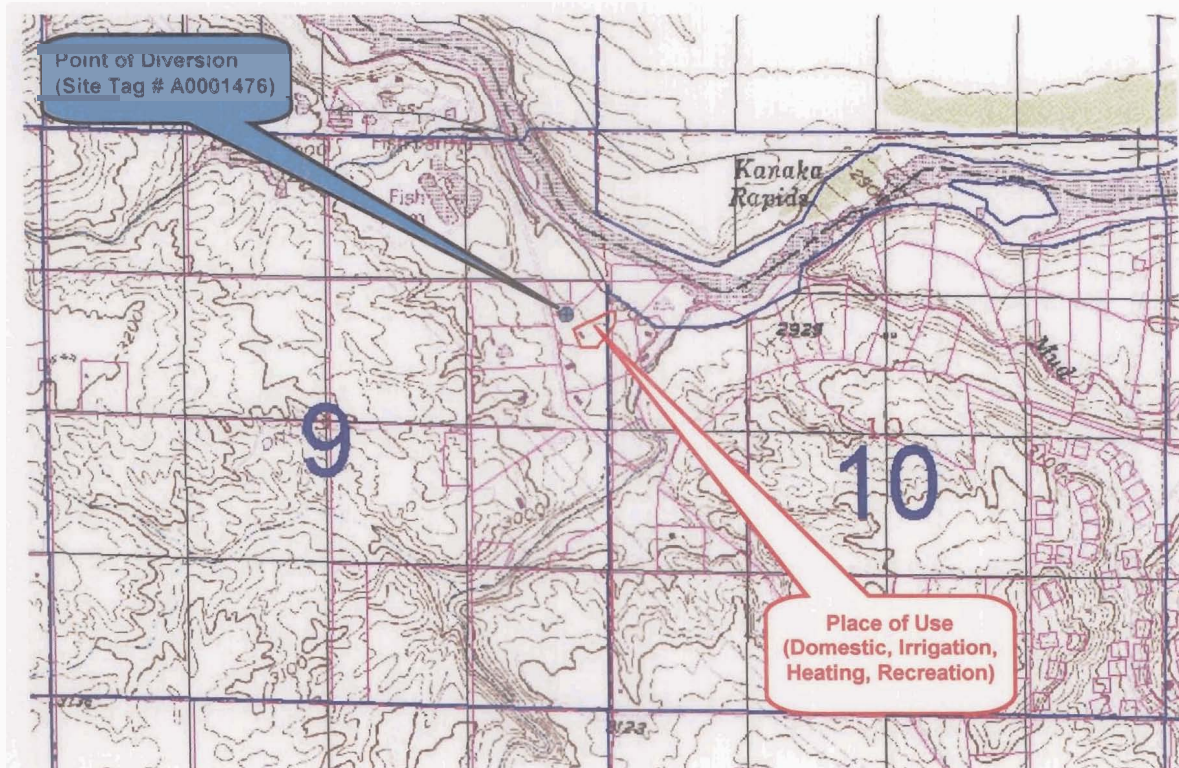
Change P.D. as reflected above ☐ Add P.D. as reflected above ☐ None
 NO Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other
 4/20/07 PER ARLMAT

I. AUTHENTICATIONField Examiner's Name [Signature] Date 7/13/2005

Reviewer _____ Date _____

SEAL

47-7575 Licensing Exam Map



Sections 9 & 10, Township 09 South, Range 14 East



POINT OF
DIVERSION

home

pool

KIENLEN
LOT
(PLACE OF USE)



ABOVE: View of point of diversion (artesian well – site tag # A0001476) from west side.

BELOW: View of same point of diversion as above, only from north side.



Licensing Exam Photos for 47-7575

(taken June 25, 2005)

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P.S.



ABOVE: Panoramic view of irrigation on Kienlen lot, looking to the east of the home.

BELOW: View looking across the pool (recreation use) towards the east showing irrigation use in the background of the view. Ms. Kienlen indicated that the pool was recently drained so that maintenance work could be done on the concrete in the bottom of the pool.



Licensing Exam Photos for 47-7575 (taken June 25, 2005)

24 1.5



ABOVE: View looking towards the southwest across the pool with the home (domestic & heating use) in the background. Also note irrigation use visible further in the background beyond the home.

BELOW: View from the bottom of the pool, looking towards the inlet to the pool. Note at least two inlet pipes visible, supporting the idea that water used for heating the home and garage can be reused in the pool (one pipe) and water can be bypassed around the heating system for the home and garage and ran directly to the pool (other pipe).



Licensing Exam Photos for 47-7575 (taken June 25, 2005)

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