

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 36-15958

Exam Date: 9/18/2012

1. Current Owner: STATE OF IDAHO
DEPT OF FISH & GAME
PO BOX 25
BOISE ID 83707
(208)334-3700

2. Accompanied by: Dave May IDF&G, assistant manager. Corey Skinner IDWR, agent

3. SOURCE**TRIBUTARY**

GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 36-2055, 36-2056, 36-2159, 36-7249 and 36-7855, Fish Propagation. 36-2158 and 36-2706, Fish Propagation and Irrigation.

2. Other water rights with the same point of diversion: None

C. DIVERSION AND DELIVERY SYSTEM**1. LOCATION OF POINT(S) OF DIVERSION:**

GROUND WATER

L1 NE1/4NE1/4

Sec. 1, Twp 08S, Rge 13E, B.M.

GOODING County

Method of Determination: GPS – Garmin, Field observation.

2.

PLACE OF USE: DOMESTIC

Twp	Rge	Sec	NE				NW				SW				SE				Totals
08S	13E	1	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	
			X	X															
			L 1	L 2															

Method of Determination: Aerial photography, Field observation.

3. ☐ Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.

☒ Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.

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

☐ Photo of Diversion and System Attached

4.

<u>Well or Diversion ID No.*</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Pump Serial No. or Discharge Size</u>
Tag # D0016639	Submersible	7.5	N/A	N/A	90 gpm (Joe Chapman manager)

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

D. FLOW MEASUREMENTS

A measurement is not required for domestic use if diversion rate does not exceed 0.24 cfs according to new Beneficial Use Examination Rules dated 3/29/2012

E. FLOW CALCULATIONS

_____ Additional Computation Sheets Attached

Measured Method: Theoretical yield:

$$Q = \frac{8.8 \times (Hp) \times (Eff)}{H}$$

Where: Hp = 7.5 Hp pump (per Joe Chapman, IDF&G manager)

Eff = efficiency = 70% assumed

H = total head = pumping level + (2.31 x system pressure)

assume pumping level of 147 feet (per Joe Chapman)

assume system pressure = 40 psi

$$H = 147 + (40 \times 2.31) = 239.4$$

$$Q = \frac{8.8 \times 7.5 \times .70}{239.4} = 0.19 = 0.20 \text{ cfs}$$

Theoretical yield equals the permitted flow of 0.20 cfs. **Recommend 0.20 cfs for this license****F. VOLUME CALCULATIONS**

The IDWR standard volume for domestic use is 0.6 af per home. Domestic use is for 5 homes, total allowable volume is 3.0 af.

Daily use for 7 fulltime employees at 15 gpd per worker, for 260 days per year, equals a total of 27,300 gpy. *

Daily use for 3 part-time employees at 15 gpd per worker, for 173 days (1385 hrs) per year, equals a total of 7,785 gpy. *

Daily average of 100 visitors per day at 10 gpd for 365 days per year, equals a total of 365,000 gpy *

$$27,300 + 7,785 + 365,000 = 400,085 \text{ total gpy} \div 325,850 \text{ g/af} = 1.2 \text{ af}$$

$$1.2 \text{ af daily usage} + 3.0 \text{ af for in house usage for 5 homes} = 4.2 \text{ total af}$$

Recommend 4.2 af for this license

* Number of employees and visitors per Joe Chapman IDF&G manager

* Gpd/person used from the Field Examiners Handbook, Non-Irrigation Requirements

G. NARRATIVE/REMARKS/COMMENTS

Application for permit 36-15958 was filed on October 15, 2001 by the State of Idaho Department of Fish and Game. Permit 36-15958 is for the diversion of 0.20cfs of ground water for domestics use associated with 5 homes, office, shop and visitors restrooms. On December 20, 2001 a permit was issued and Proof of Beneficial Use was due on January 1, 2003. On November 8, 2002 a Request for Extension of Time was submitted and approved. The time within which to submit Proof of Beneficial Use was extended to January 1, 2004. Proof of Beneficial Use was submitted on November 14, 2003 by the permit holder.

During the field exam, Corey and I were accompanied by Dave May the assistant manager for the facility. Mr. May explained that the well provided water for the 5 homes, an office with restrooms. In addition water is provided to the two shops, with one shop having a sink and faucet and the other shop having a restroom. The well also supplies water for a number of hydrants, with one located at the public vaulted restroom at the southwest end of the raceways and four at the north end of the raceways used for cleaning and maintenance. During the exam, the well was found to be in a different quarter, quarter than permitted. Irrigation for the facility is provided by surface water rights 36-2158 and 36-2706.

Correspondence by phone with the manager of the facility, Joe Chapman provided the information of the number of employees and visitors in determining water usage.

An application for amendment to correct the point of diversion was sent to Joe Chapman, facility manager, for review along with a request of \$100.00 fee for processing the amended permit. This information was forwarded to the state office of IDF&G for approval. The signed amendment and corresponding fee was recently received by IDWR.

Have conditions of permit approval been met? ☒ Yes ☐ No

H. RECOMMENDATIONS**1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
DOMESTIC	01/01 to 12/31	0.200 CFS	4.20 AF
<u>Totals:</u>		0.200 CFS	4.20 AF

2. Recommended Amendments

☒ Change P.D. as reflected above ☐ Add P.D. as reflected above ☐ None

☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

I. AUTHENTICATION

Field Examiner's Name Benny Walker Date 3/28/16

Reviewer Tougalas Jones Date 8/8/16

36-15958 Licensing Exam

IDF&G Hagerman Fish Hatchery



Permit 36-15958



Two of the Five Homes and Office



Permit 36-15958



Above: Two Shops

Below: Pump House and Well Head

