

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 47-17234

Exam Date: 3/10/2011

1. Current Owner: CHERYL S. EGGLESTON
1510 E 4500 N
BUHL ID 83316
(208)543-6675

And

CORY BRODINE
1508 E 4500 N
BUHL ID 83316
(208)543-8003

And

MARCY BRODINE
1508 E 4500 N
BUHL ID 83316
(208)543-8003

And

ROBERT DEISHER
1514 E 4500 N
BUHL ID 83316
(208)543-5161

And

CORAL DEISHER
1514 E 4500 N
BUHL ID 83316
(208)543-5161

And

RICHARD E. EGGLESTON
1510 E 4500 N
BUHL ID 83316
(208)543-6675

2. Accompanied by: Richard Eggleston and Robert Deisher

Phone No: (208) 543-6675

Address: 1510 E 4500 N, BUHL ID 83316

Relationship to Permit Holder: Current Owners.

3. **SOURCE**

GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 47-7128 (Fish Propagation; 2.75 cfs)
47-17237 (Irrigation; 0.02 cfs; 2.80 AF; 0.7 acres)
47-17238 (Irrigation; 0.01 cfs; 1.6 AF; 0.4 acres)
47-17239 (Irrigation; 0.10 cfs; 18.0 AF; 4.5 acres)
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 NE1/4NW1/4NW1/4

Sec. 18, Twp 09S, Rge 15E, B.M.

TWIN FALLS County

Method of Determination: Tracks were collected with a Garmin GPS map 76S receiver and downloaded into an ArcMap shapefile that corresponds with 2009 aerial photography and verified the place of use and point of diversion to be Twp 09S Rge 15E S 18 NWNW ¼. See attached map.

2.

PLACE OF USE: DOMESTIC

Twp	Rge	Sec	NE				NW				SW				SE				Totals
09S	15E	18	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
								X											
								L 1											

Method of Determination:

3. _____ Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.
- ___x___ Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.
- ___x___ Aerial Photo Attached (required for irrigation of 10+ acres).
- _____ Photo of Diversion and System Attached

4.

<u>Well or Diversion</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>
<u>ID No.*</u>					
		5			

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

D. FLOW MEASUREMENTS: N/A

1. Measurements: N/A

E. FLOW CALCULATIONS

_____ Additional Computation Sheets Attached

Measured Method:

Theoretical yield:

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

Where: Hp = 5 Hp (per Eaton Well Drilling Co. records)

Eff = efficiency = 70% assumed

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

assume pumping level of 120 feet (based on Eaton Well Drilling Co. records)

assume system pressure = 40 psi

$$H = 120 + (40 \times 2.31) = 212.40$$

$$Q = \frac{8.8 \times 5 \times .70}{212.40} = 0.15 \text{ cfs}$$

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: N/A

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

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 =$$

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

2. Volume Calculations for Other Uses: Domestic in home and yard (3 homes) = 3.6 AFA

G. NARRATIVE/REMARKS/COMMENTS

Application for permit 47-17234 submitted by Richard and Cheryl Eggleston; Cory and Marcy Brodine; and Robert and Coral Deisher was submitted August 8, 2005 and proof of Beneficial Use was submitted March 13, 2006.

Taxlot and GPS track data indicate the Eggleston property is approximately 12.6 acres in size, with 0.5 acres of irrigated lawn and an existing water right allowing the irrigation of 4.5 acres (47-17239; 0.10 cfs; 18.0 AF). As there is ample irrigation supplied from water right 47-17239, there is a combined limit condition on the License limiting the irrigation of this right and 47-17239 to 4.5 acres.

The Brodine Property is approximately 2.5 acres in size with 0.7 acres of lawn with a water right for 0.4 acres (47-17238; 0.01 cfs; 1.6 AF). Where there is 0.3 acres more irrigation than is allowed under right 47-17238, there is a combined limit condition on the License limiting irrigation of this right and 47-17238 to 0.7 acres.

The Deisher property is approximately 1 acre with 0.5 acres of irrigated lawn and a water right allowing irrigation of 0.7 acres (47-17237; 0.020 cfs; 2.8 AF). Being the irrigation is sufficiently covered by water right 47-17237, there is a combined limit condition on the License limiting irrigation of this right and 47-17237 to 0.7 acres.

Irrigation water rights (47-17237; 47-17238; 47-17239) are pumped from a separate point of diversion (see map).

Recommend permitting 0.080 cfs and 3.6 AFA.

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	0.080 CFS	3.6 AF
<u>Totals:</u>		0.080 CFS	3.6 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

Date

3/22/2011

Reviewer

Date

5/9/2011



Figure 1: Common Lawn Area and Homes

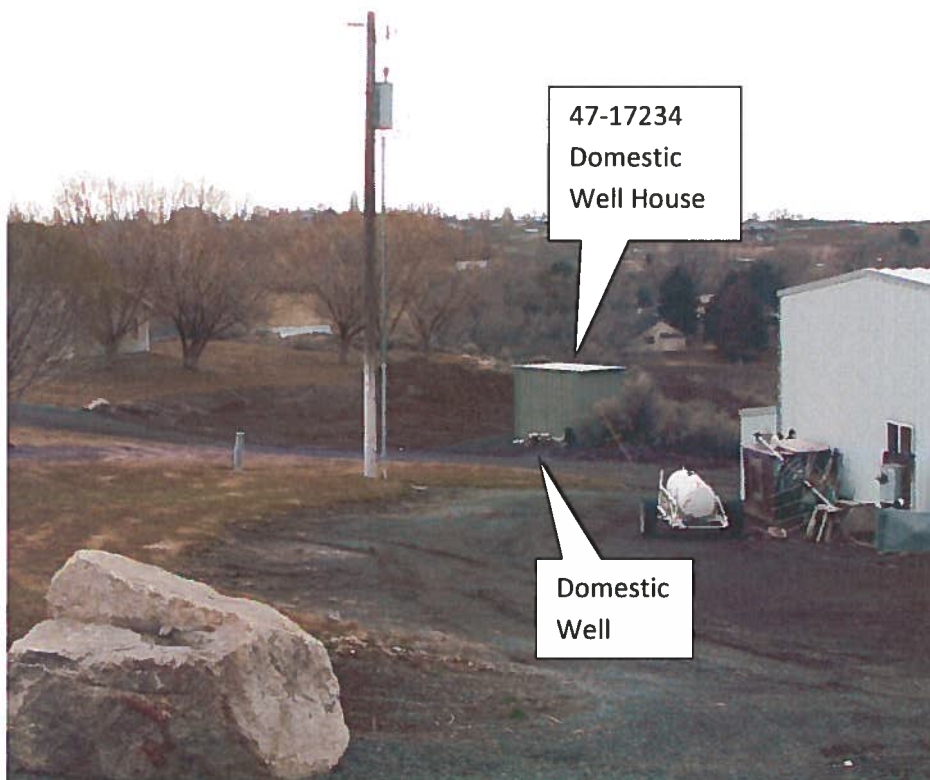


Figure 2: Location of domestic well and well house.



Figure 3: Eggleston Yard area (southeast side)



Figure 4: Eggleston home and side yard (northwest side)



Figure 5: Common area and Brodine residence



Figure 6: Deisher residence



Figure 7: Well house on northeast corner of Deisher property. Supplies water for irrigation rights 47-17237, 47-17238 and 47-17239

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