

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 95-9560

Exam Date: 07/17/2018

1. Current Owner:

DANEY W BEACH 8797 N CLOVERLEAF RD HAUSER ID 83854
WENDY ROBERTSON 8797 N CLOVERLEAF RD HAUSER ID 83854

2. Accompanied by: Daney Beach

Phone No: (208) 818-1823

Address: Same as above

Relationship to permit Holder: Permit holder.

3. **SOURCE:**

GROUND WATER

Method of Determination: Arcmap and DRG

B. OVERLAP REVIEW

1. Other water rights with the same place of use:

NO Overlap

Water Right No.	Source	Purpose of Use	Basis

Comments: _____

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

NO Overlap

Water Right No.	Source	Purpose of Use	Basis

Comments: _____

C. DIVERSION AND DELIVERY SYSTEM1. **LOCATION OF POINT(S) OF DIVERSION:**

GROUND WATER NE¼ SW¼, Sec. 19, Twp 51N, Rge 05W, B.M. KOOTENAI County

Method of Determination: Maps and GPS. POD located at -117°00.839, 47°45.080. Well D0060819.

PLACE OF USE: IRRIGATION

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
51N	05W	19									1.7								1.7

Total Acres: 1.7

PLACE OF USE: DOMESTIC

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
51N	05W	19									X								

Method of Determination: Arcmap and tax lot data.

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.

Well or Diversion ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
D0060819	Franklin	3			

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
N/A						

2. Measurements: Unable to perform flow measurement because system pumped directly into pressure tank.

E. FLOW CALCULATIONS

☒ Additional Computation Sheets Attached

Measured Method: Theoretical pumping equation estimates flow at 0.08 cfs. See attached theoretical pumping equation worksheet.

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 1.7\text{ac} \times 3.0 \text{ af} = 5.1 \text{ af}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = .05 \text{ cfs} \times 246 \text{ days} \times 1.9835 = 24.4 \text{ af}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 5.1 \text{ af}$$

2. Volume Calculations for Other Uses:

$$\text{Domestic use for in home only} = 0.6 \text{ af}$$

$$3 \text{ homes} \times 0.6 \text{ af} = 1.8 \text{ af}$$

G. NARRATIVE/REMARKS/COMMENTS

Field exam performed with the applicant, Daney Beach, showed a well being used for domestic and irrigation purposes. The well, D0060819, has a 3 HP pump which diverted water into a pressure tank. I was unable to perform a flow measurement because water was diverted directly into pressure tank with no proper place to perform measurement. Theoretical pumping equation was used to estimate a flow rate of 0.08 cfs. The pump was estimated to be 190 feet down and the system running at 40 psi (equation attached). The license will be issued with a maximum diversion rate of 0.08 cfs.

There were three homes identified and verified during field exam that were using water for in home use. Irrigation was observed during field exam, and was traced out during licensing review to equal 1.7 acres. The homes and irrigation are located on three separate tax lots in the Beach Estates Subdivision. The irrigation was from hoses and sprinklers, there was no automatic sprinklers on any of the three lots. The domestic volume will be limited to 1.8 af (3 homes x 0.6 af). The irrigation volume will be limited to 5.1 af (1.7 ac x 3.0 af). The overall license will be limited to a diversion rate of 0.08 cfs and an annual volume of 6.9 af.

Condition 046 was removed from license. Condition R62 was modified to R66 because the irrigation found was less than 5 acres and limited to 0.03 cfs per acre instead of 0.02 cfs. Conditions X59 and X60 were added to describe POD and POU being located in a subdivision. Condition 004 was also added because of different ownerships of properties. All other conditions remained on license. There are no overlap concerns.

Have conditions of permit approval been met? X Yes No

H. RECOMMENDATIONS**1. Recommended Amounts**

<u>Beneficial Use</u>	<u>Period of Use</u>	<u>Rate of Diversion</u>	<u>Annual Volume</u>
IRRIGATION	03/15 to 11/15	0.05 CFS	5.1 AF
DOMESTIC	01/01 to 12/31	0.08 CFS	1.8 AF

Totals: 0.08 CFS 6.9 AF

2. Recommended Amendments

 Change P.D. as reflected above Add P.D. as reflected above X None

 Change P.U. as reflected above Add P.U. as reflected above X None

I. AUTHENTICATION Luke Bates - Water Resource Agent






Field Examiner's Name Adam Fink Date 3/23/2020

Reviewer ABED Date 3/24/2020

State of Idaho
Department of Water Resources
Attachment to Field Exam
95-9560

DOMESTIC system diagram.



-  Point of Diversion
-  Place Of Use Boundary
-  Townships
-  PLS Sections
-  Quarter Quarters

0 0.035 0.07 0.14 Miles



State of Idaho
Department of Water Resources
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IRRIGATION evidence.

05W

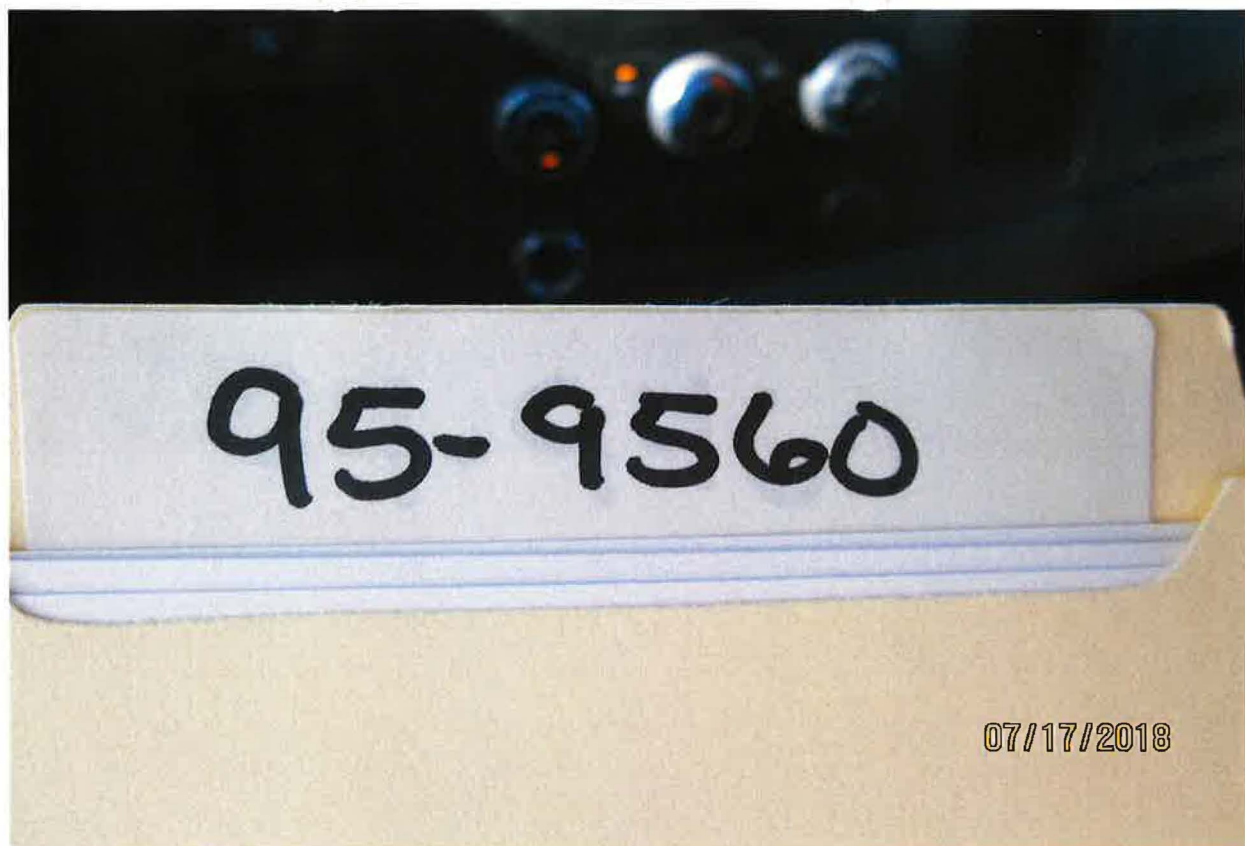


- Point of Diversion
- Place Of Use Boundary
- Townships
- PLS Sections
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0 0.035 0.07 0.14 Miles



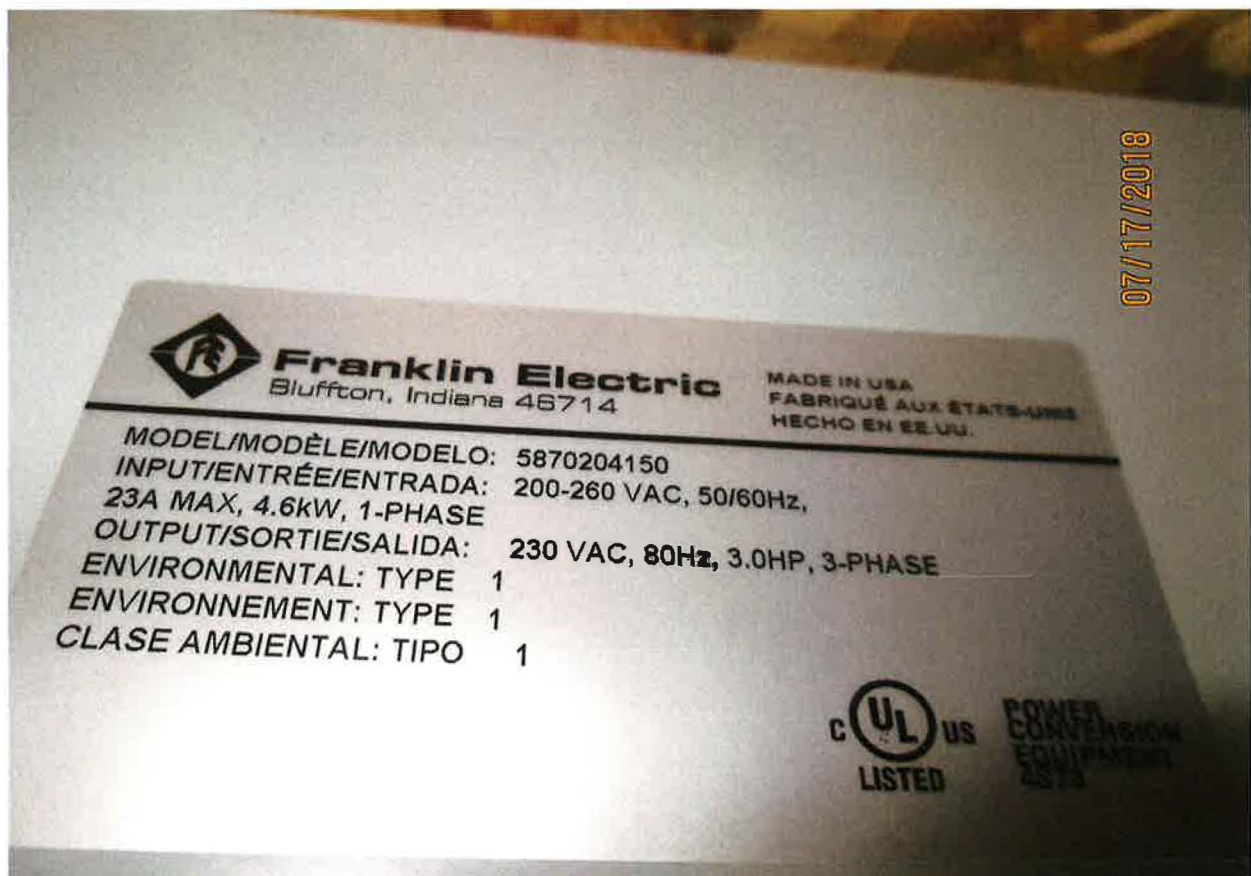
<p align="center">PUMP EQUATIONS WATER RIGHT No. 95-9560</p>						
		HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q =	HP*8.8*Eff/H	3	282.517	0.8	190	40
Q =		0.075 cfs	33.6 gpm			



POD - well D0060819



POD well tag D0060819



3HP pump



Irrigation POU



POU Lot 1 BLK 1



Irrigation POU



Irrigation POU



POU Lot 2 BLK 1



POU Lot 3 BLK 1



Irrigation POU

