

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 96-9458

Exam Date: 6/12/2015

1. Current Owner: JOHN SCHLOTFELDT
PO BOX 14519
TUMWATER WA 98511
(360) 701-0495

And

JANET SCHLOTFELDT
PO BOX 14519
TUMWATER WA 98511
(360) 701-0495

2. Accompanied by: John Schlotfeldt

3. SOURCE

PEND OREILLE LAKE

TRIBUTARY

PEND OREILLE RIVER

B. OVERLAP REVIEW

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

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

PEND OREILLE LAKE L5 NW1/4SW1/4SW1/4 Sec. 2, Twp 56N, Rge 01E, B.M. BONNER County

Method of Determination: GPS and maps. POD location at 47° 40.060, 116° 51.013

2.

PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
56N	01E	2	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	1.3
													1.3						1.3
													L 5						

Total Acres: 1.3

PLACE OF USE: FIRE PROTECTION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
56N	01E	2	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
													X						
													L 5						

Method of Determination:

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</u> <u>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</u> <u>Size</u>
	FRANKLIN	3			

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

D. FLOW MEASUREMENTS

1.

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

2. Measurements:

E. FLOW CALCULATIONS

☐ Additional Computation Sheets Attached

Measured Method: THEORETICAL PUMPING EQUATION ESTIMATES FLOW AT 49.3 GPM OR 0.11 CFS.

$$3 \text{ HP} \times 8.8 \times 0.8 / 100 + (40 \times 2.3087) = 0.11 \text{ CFS}$$

estimated 100 ft of lift from the lake to the property along with an estimated system pressure of 40 psi.

Method of Determination:

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N/A

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☐ Additional Computation Sheets Attached

Measured Method: THEORETICAL PUMPING EQUATION ESTIMATES FLOW AT 49.3 GPM OR 0.11 CFS.

F. VOLUME CALCULATIONS**1. Volume Calculations for Irrigation:**

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 1.3 \text{ AC} \times 3.0 \text{ AF} = 3.9 \text{ AF}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.03 \times 214 \times 1.9835 = 12.7 \text{ AF}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 3.9 \text{ AF}$$

2. Volume Calculations for Other Uses:**G. NARRATIVE/REMARKS/COMMENTS**

FIELD EXAM SHOWED ONLY 1.3 ACRES OF IRRIGATION OCCURRING. APPLICANT HAD A 3 HP PUMP PULLING WATER FROM 100 FEET DOWN TO THE LAKE. THEORETICAL PUMPING EQUATION ESTIMATES FLOW AT 49.3 GPM OR 0.11 CFS. IRRIGATION WILL GIVEN RATE OF 0.03 CFS FOR 1.3 ACRES OF IRRIGATION AND FIRE PROTECTION WILL BE BROUGHT DOWN FROM 1.97 CFS TO 0.11 CFS.

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>
IRRIGATION	04/01 to 10/31	0.030 CFS	3.90 AF
FIRE PROTECTION	01/01 to 12/31	0.110 CFS	
<u>Totals:</u>		0.110 CFS	3.90 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 Adam Franklin Date 12/2/2015
 Reviewer Kerith L. Grandin Date 12/15/2015

THEORETICAL PUMPING EQUATION FOR WATER RIGHT 96-9458

PUMP EQUATIONS WATER RIGHT No. 96-9458						
		HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q =	$\frac{HP \cdot 8.8 \cdot \text{Eff}}{H}$	3	192.51 7	0.8	100	40
Q = 0.110 cfs 49.3 gpm						

PIPE WENT DOWN 100 FEET TO LAKE

State of Idaho
Department of Water Resources
Water Right License
96-9458

01E

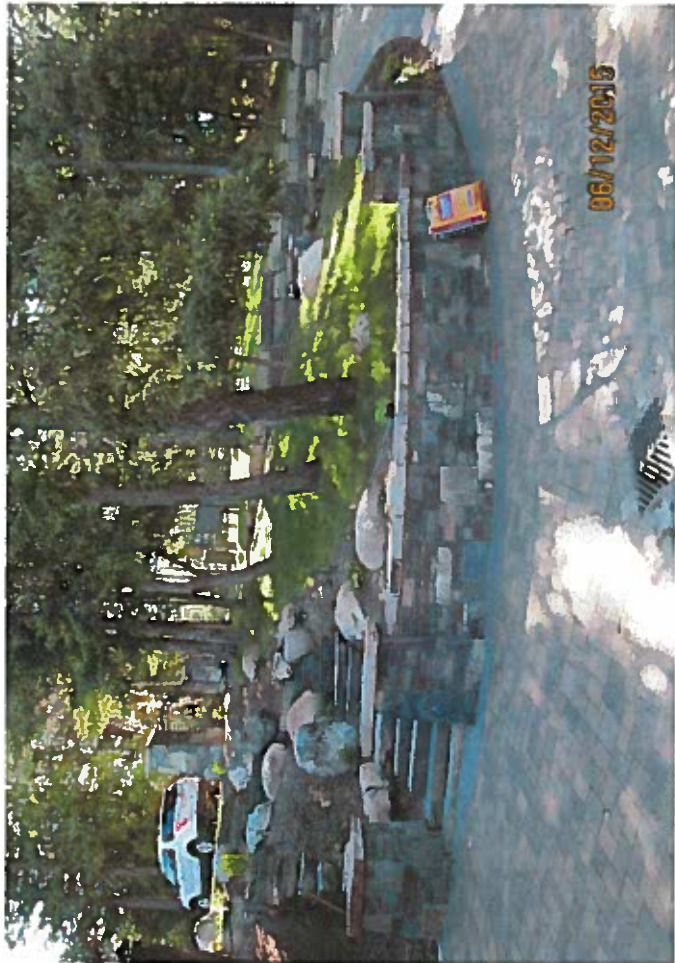
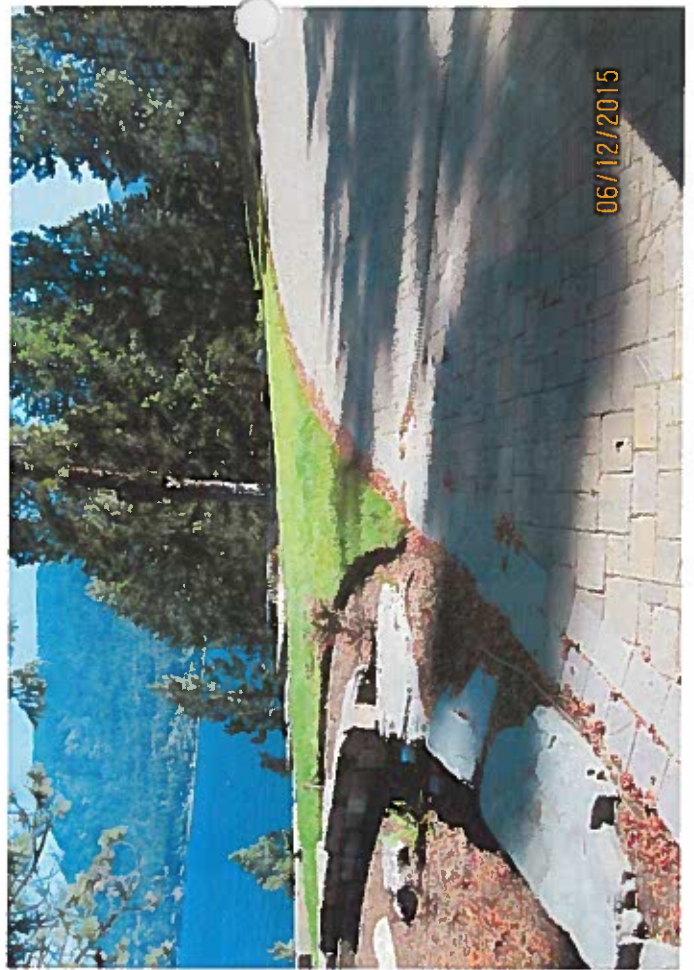
56N



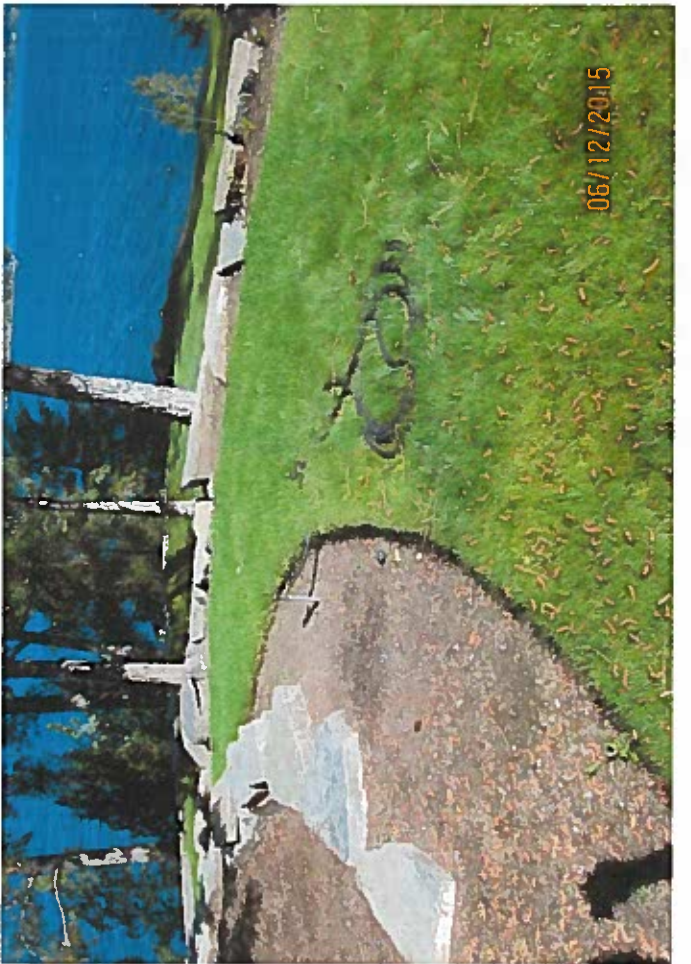
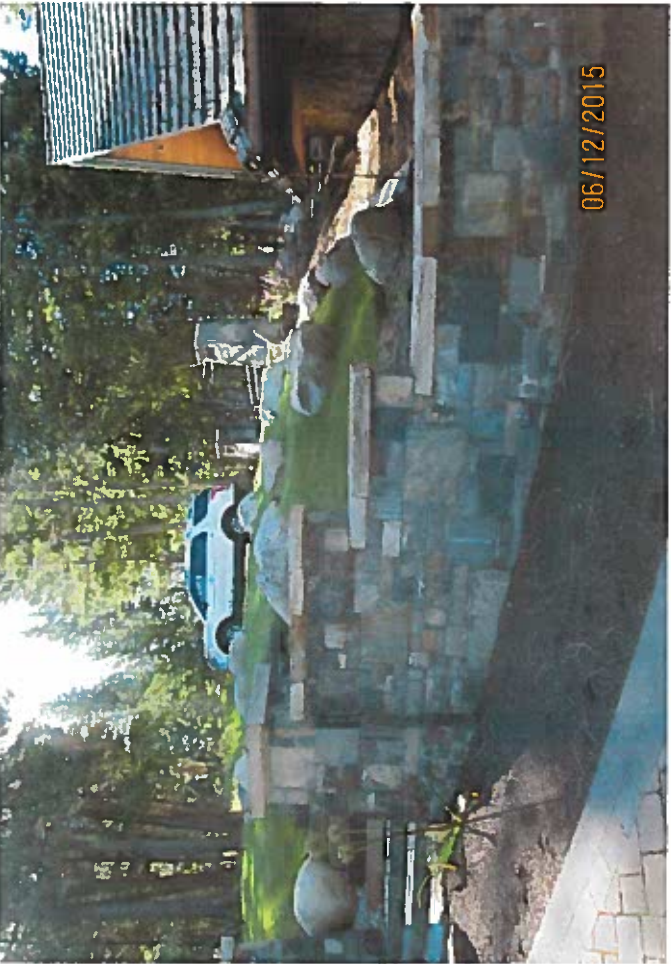
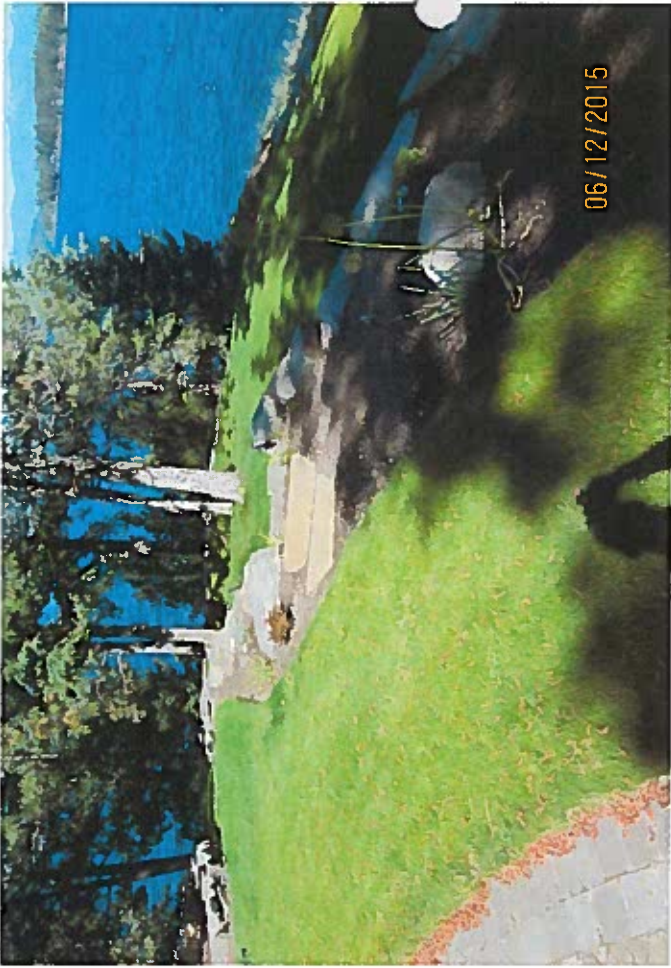
0 0.035 0.07 0.14 Miles

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

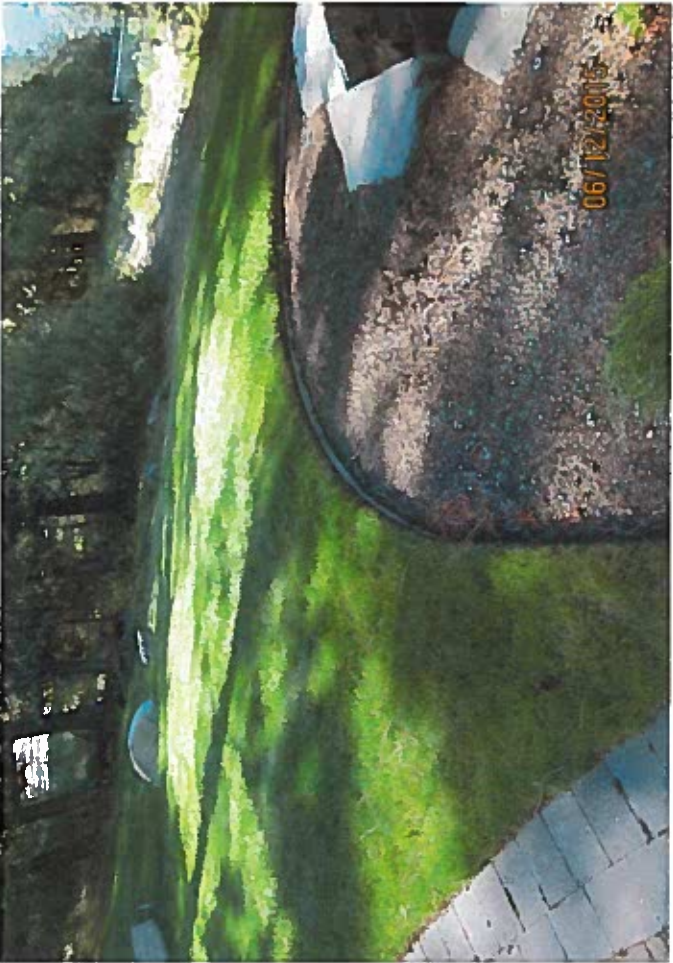
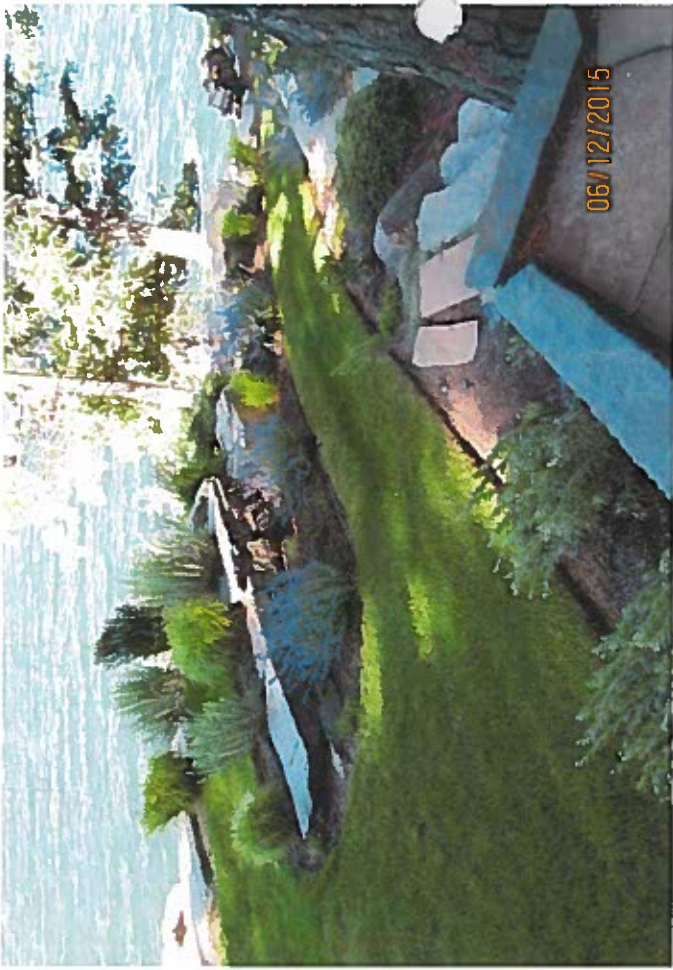




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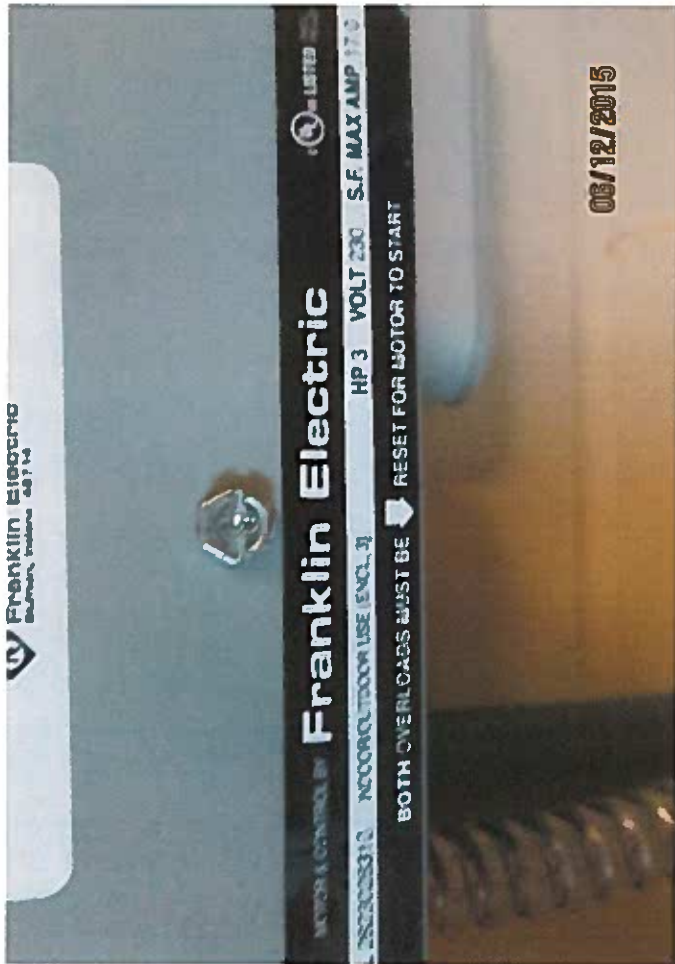
91-9454



96-9458



91-945x



91-9448