

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 96-9673

Exam Date: 09/19/2019

1. Current Owner:
BARBARA CORNETT PO BOX 795 SANDPOINT ID 83864 AND/OR
JOHN CORNETT PO BOX 795 SANDPOINT ID 83864
2. Accompanied by: John Cornett / In-house exam
Phone No: (208) 597-0807
Address: Same as above
Relationship to permit Holder: Permit Holder

3. SOURCE:
LAKE PEND OREILLE

Tributary
PEND OREILLE RIVER

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 SYSTEM

1. LOCATION OF POINT(S) OF DIVERSION:

LAKE PEND OREILLE NW¼ NE¼, Sec. 25, Twp 57N, Rge 02W, B.M. BONNER County

Method of Determination: Arcmap and GPS.

PLACE OF USE: IRRIGATION

[illegible]

Total Acres: 0.5

PLACE OF USE: FIRE PROTECTION

[illegible]

Method of Determination: Drive by exam and GPS.

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
River Pump	Unknown				

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
NONE						

2. Measurements: Water Right qualifies for an In-house exam. No measurement is required for an in-house exam. Drive by was conducted to take photographs and determine location of POD.

E. FLOW CALCULATIONS

Measured Method: unable to perform measurement, as intake pipe at POD was too small in diameter.

Flow measurement not required as per IDAPA RULE 37.03.02.035.01.r.iii.

F. DIVERSION RATES

The diversion rate for this irrigation right is limited to 0.02 cfs or 9.0 gpm.

The diversion rate for this fire protection right is limited to 0.09 cfs or 40.0 gpm

G. VOLUME CALCULATIONS

The annual volume for this irrigation right is limited to = 0.5 acres x 3.0 af = 1.5 af.

There is no annual volume for fire protection.

This is a surface water right, so no volume will be included on the water right license.

H. NARRATIVE/REMARKS/COMMENTS

This permit qualifies for an in-house field examination. Due to tree canopy, Arcmap imagery was unreliable for proof of beneficial use, and a drive-by exam was completed to obtain photographs in order to show irrigation use on property. Applicant had a two inch pipe connected to a pump drawing water from Lake Pend Orielle to operate a 3 sprinkler irrigation system, and for fire protection purposes.

The permit was authorized for 0.02 cfs or 9.0 gpm for the irrigation component of the water right. Most river pumps divert more than that amount of water for these types of systems. The irrigation system was probably designed for the 9 gpm diversion rate, so it would be reasonable to allow the full diversion rate of 0.02 cfs for 0.5 acres to be carried forward to licensing. It is almost impossible to find a pump and sprinkler system that diverts less than the 9 gpm recommended. It is unknown if the pump was a multi-phase pump, that would divert a smaller diversion rate for irrigation, but if needed for fire protection would speed up to provide the greater diversion rate.

The permit was authorized for 0.09 cfs for the fire protection component of the water right. Photographs taken during drive-by exam show a frost free hydrant on the property and fire hydrant, which would aid in fire protection in the event of a fire. There will be no total annual volume on the license because fire protection has no volume. As a result, the maximum diversion rate applied at time of licensing will be 0.09 cfs.

The permit requires a fish screen, and the permit holder stated on their statement of completion for submitting proof of beneficial use form that they had installed the fish screen.

Condition 26A was removed from license. Condition R66 remains to limit diversion rate for irrigation component of license to 0.03 cfs. All other conditions applied to the permit should be carried forward to licensing. There are no overlap concerns for this water right.

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

I. RECOMMENDATIONS

1. Recommended Amounts

<u>Beneficial Use</u>	<u>Period of Use</u>	<u>Rate of Diversion</u>
IRRIGATION	04/01 to 10/31	0.02 CFS
FIRE PROTECTION	01/01 to 12/31	0.09 CFS

Totals: 0.09 CFS

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 ☒ None

I. AUTHENTICATION






Luke Bates - Water Resource Agent

Field Examiner's Name Adam Fink Date 4/13/2020
 Reviewer [Signature] Date 4/7/2020

State of Idaho
Department of Water Resources
Attachment to Field Exam
96-9673

IRRIGATION 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
Attachment to Field Exam
96-9673

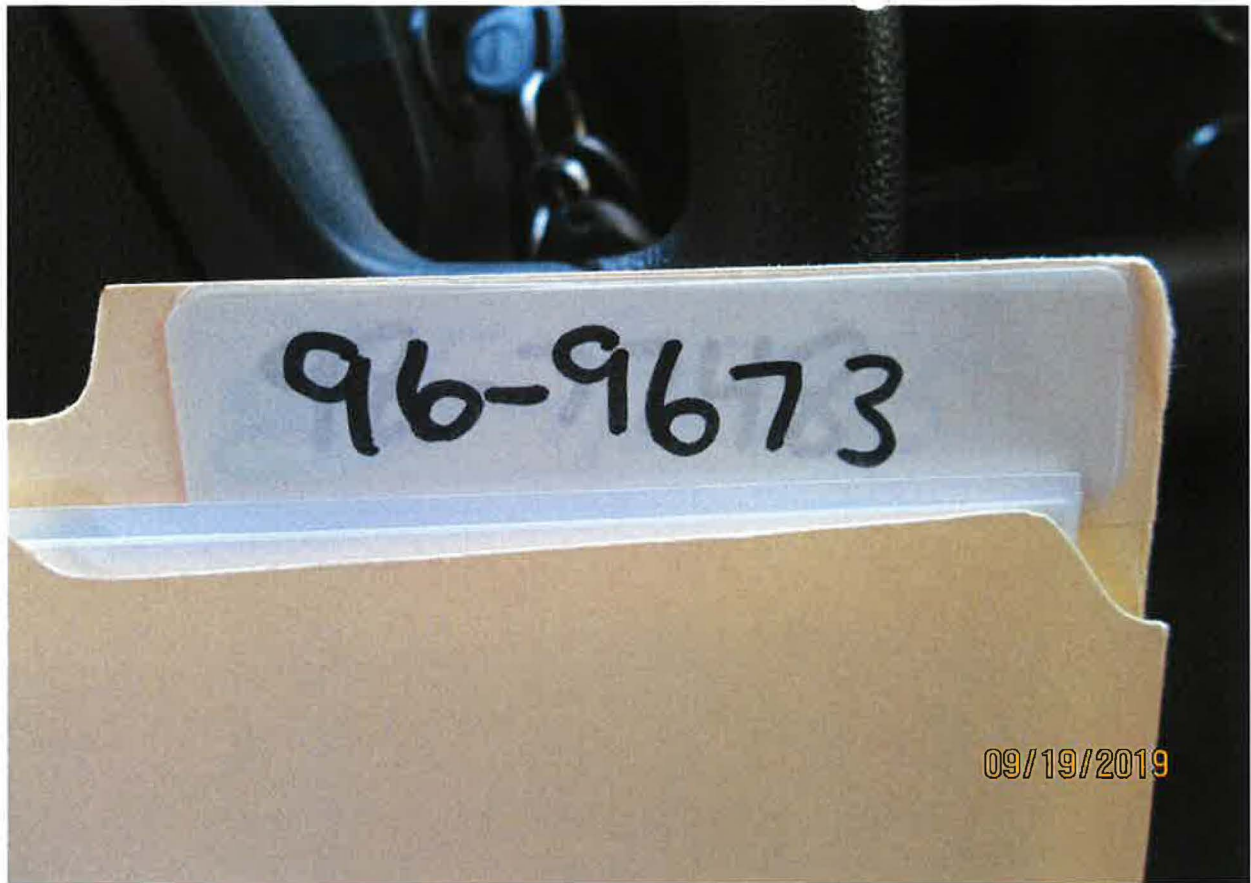
FIRE PROTECTION system diagram.



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

0 0.035 0.07 0.14 Miles





POD - 2 INCH PIPE



PUMP HOUSE





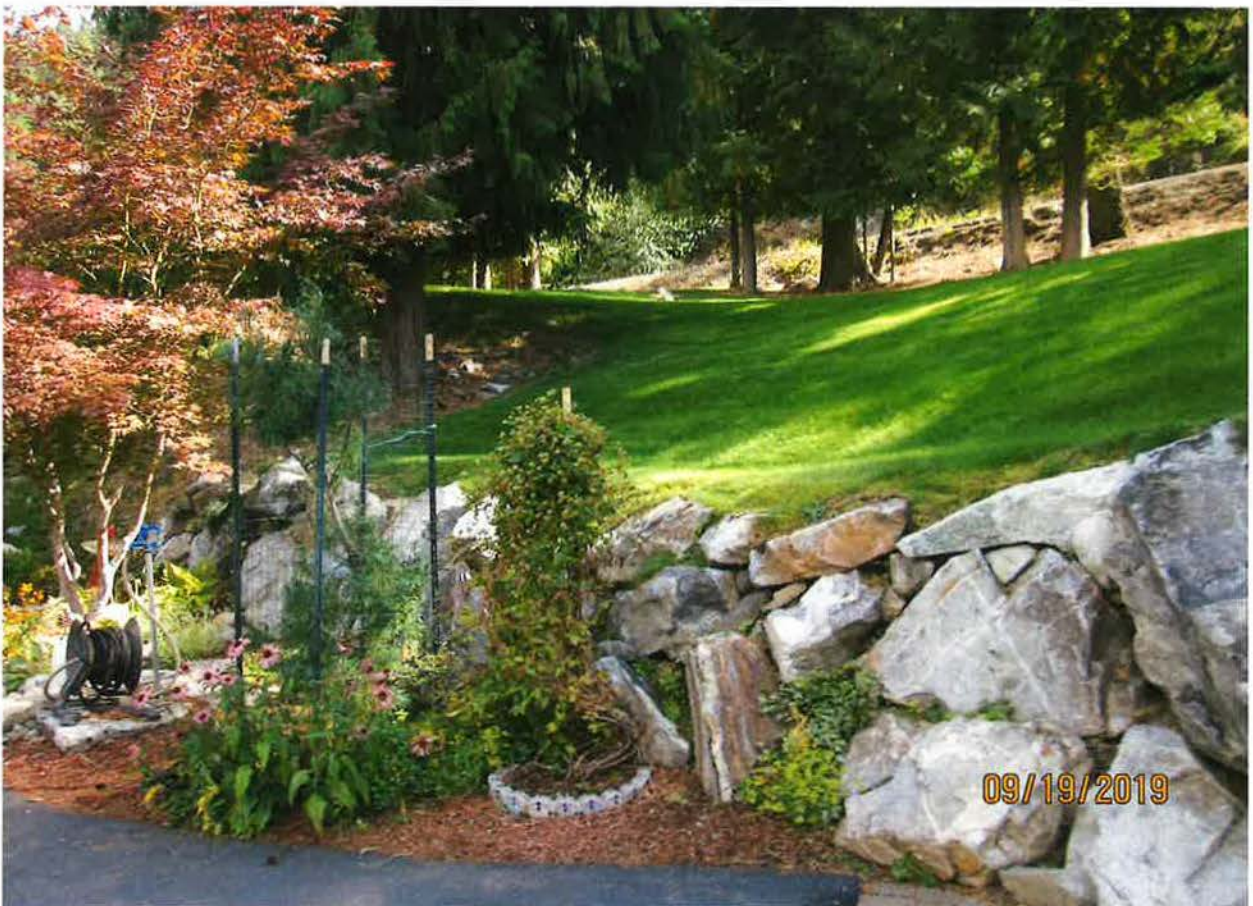
CONVEYANCE SYSTEM FROM PUMP HOUSE TO IRRIGATION



POU



POU – FROST FREE HYDRANT AND HOSE REEL





POU

