

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 96-09521

Exam Date: 8/30/2018

1. Current Owner:

GERALD E SMITH 7110 N WALNUT CT SPOKANE WA 99208 (509) 466-7014

2. Accompanied by: Drive by

3. **SOURCE:**

LAKE PEND OREILLE

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 SYSTEM1. **LOCATION OF POINT(S) OF DIVERSION:**LAKE PEND OREILLE L1 (NW $\frac{1}{4}$ NW $\frac{1}{4}$) Sec. 7, Twp 57N, Rge 01W, B.M. BONNER County

Method of Determination: Maps and GPS. POD located at -116° 30.003, 48° 18.362

2.

PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
57N	01W	7						0.2											.2
								L 1											

Total Acres: 0.2

Method of Determination: Google Earth and Arcmap.

3.

Delivery System Diagram Attached (required). Indicate all major components and distances between components.

X

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).

X

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
PUMP	UNKNOWN				

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

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date

2. Measurements: N/A

E. FLOW CALCULATIONS

Measured Method:

____ Additional Computation Sheets Attached

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

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 0.2 \text{ AC} \times 3.0 \text{ AF} = 0.6 \text{ AF}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.01 \text{ CFS} \times 214 \times 1.9835 = 4.2 \text{ AF}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 0.6 \text{ AF}$$

G. NARRATIVE/REMARKS/COMMENTS

The state office requested a drive by to confirm if irrigation was occurring under this permit. The permit met all the requirements for an in-office license but irrigation could not be determined by aerial photography. A drive by was conducted to confirm that 0.2 acres of irrigation was occurring. Measurement of diversion rate is covered under IDAPA RULE 37.03.02.035.01.r.iii. Some photos were taken showing the irrigated area and the general location of the pump. No pump was visible but a hose with an oscillating sprinkler could be seen. With the actual amount of irrigation occurring times the standard rate per acre the license will be issued for 0.01 cfs.

During license review it was determined there were some corrections that would need to be fixed to have license match our data entry standards. The source on the permit was shown as Pend Oreille Lake, but the USGS shows it identified as Lake Pend Oreille. A correction was made to properly identify the source. The season of use was listed as 3/15 to 10/15 when the actual season of use was 4/1 to 10/31. I believe condition R62 was added to the permit because the applicant only applied for 0.02 cfs for the irrigation of 1 acre. Because the diversion rate on license is dependent on the acreage irrigated, condition R66 will be put on license to keep standard condition for irrigation under 5 acres.

Overlap review showed water right 96-2279 having a similar place of use location to this right. The map for 96-2279 showed the irrigated place of use on the flat ground which probably use to be for a farm in that area. The area is now a sub-division community and adjudication in that basin will determine the actual irrigation still occurring under it if any at all. The irrigated area under this right was on the incline of the property from the lake to the flat ground and thus there is no overlap between the two rights.

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>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
IRRIGATION	04/01 to 10/31	0.01 CFS	
<u>Totals:</u>		0.010 CFS	

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

Field Examiner's Name Adam F. Smith Date 10/11/2018

Reviewer Douglas Jones P.E. Date 1/28/2018

State of Idaho
Department of Water Resources
Attachment to Field Exam
96-9521

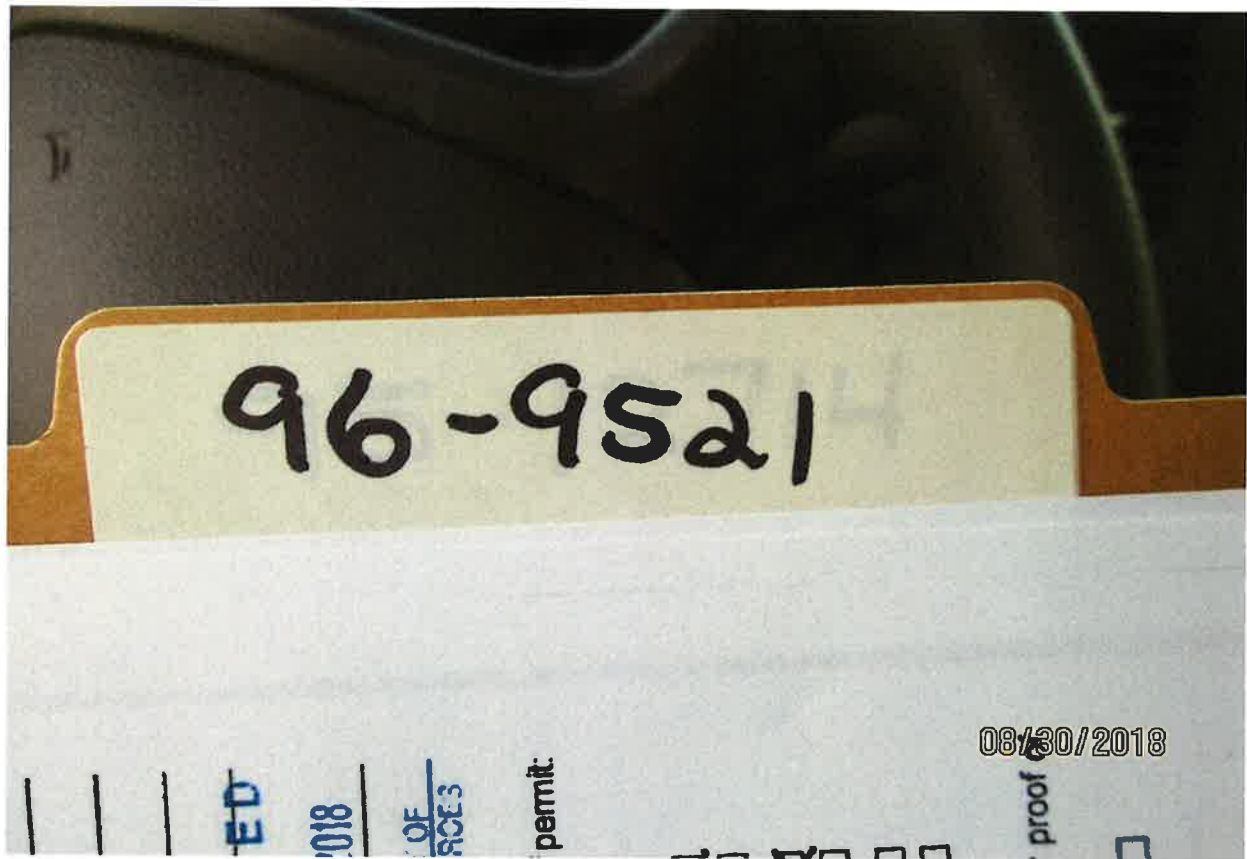
IRRIGATION / SYSTEM DIAGRAM



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

0 0.035 0.07 0.14 Miles





Point of Diversion area.



Irrigation POU.





Irrigation POU.

