

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
IN-OFFICE REVIEW/BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATIONPermit No: 96-9641

Exam Date: 5/8/2017

1. Does this qualify for an in-office field exam (IDAPA 035.02.r)? X Y N
- Irrigation of 5 acres or less
 - Storage of up to 14.6 AF for stockwater purposes only
 - Any use other than irrigation or storage, if the combined diversion rate is 0.24 cfs or less
 - Other < >

2. Current Owner: Name: Gary and Sharon Pruitt
 Owner of Record Correct? X Y N
 Address of Record Correct? Y N
 If No: Address

Tax parcel data shows Gene C. and Betsy L. Nelson as the owners of the property. However, the permit holders submitted a warranty deed with their application for permit showing them as the new owners of the property.

3. Beneficial Use Fees have been paid: X Y N Receipt No: C0103468

4. SOURCE**TRIBUTARY**

Pend Oreille River

Columbia River

Method of Determination: GIS and Tax Parcel DataChange in Source: Y X N**B. OVERLAP REVIEW**

1. Other water rights with the same place of use: NO Overlap

Water Right No.	Source	Purpose of Use	Basis
96-7616	Pend Oreille River	Domestic and Industrial	License

Comments: Water right 96-7616 is a large domestic and industrial water right that supplies approximately 136 homes and one business. Laclede Water District owns and delivers water right 96-97616. This permit is for external use only, so I am assuming that Laclede Water District supplies the in-house water needs for this property. Water right 96-9489 is another water right in this same 40 acre tract, but it supplies water to Lot 11.

2. Other water rights with the same point of diversion: NO Overlap

Water Right No.	Source	Purpose of Use	Basis
NONE			

Comments: Water right 96-9489 for lot 11 is the only other water right with a point of diversion in this 40 acre tract.

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

Source	Govt. Lot	¼	¼	¼	Sec.	Twp.	Rge.		County
River Pump	6		NE	SE	30	56N	3W	B.M.	Bonner
								B.M.	
								B.M.	

Method of Determination: GIS and Tax Lot data.Change in POD? X N Amendment Required? X N**2. PLACE OF USE:** 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	
56N	3W	30													D				
		Lot #													6				
Total Acres =																			

Method of Determination: GIS and Tax Lot DataChange in POU? X N Amendment Required? X N Delivery System Diagram Attached (required). Indicate all major components and distances between components.

Indicate weir size/pipe as applicable.

 X Aerial Photo Attached (required for irrigation of 10+ acres). Photo of Diversion and System Attached

4. Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
River Pump	Unknown	0.75			2 inch

*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
NONE						

2. Measurements: No measurement is required for an in-house exam.

E. FLOW CALCULATIONSX Additional Computation Sheets Attached

Measured Method:

There was very little information in the permit folder on this system. However, they do state in the application that the pump is a ¾ hp pump. I ran a theoretical calculation using some assumptions for the system, and I used the standard domestic diversion rate allowed Processing Administrative Memorandum #22 to determine the flow rate that should be recommended.

Theoretical Calculation = 0.04 cfs average

Admin. Memo #22 = 0.04 cfs

Permit allowed = 0.04 cfs

I am recommending a diversion rate of 0.04 cfs per the limits set forth in the permit, and the other calculations used to determine if the flow rate was reasonable.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = \underline{\hspace{2cm}}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = \underline{\hspace{2cm}}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = \underline{\hspace{2cm}}$$

2. Volume Calculations for Other Uses:

Per Processing Administrative Memorandum #22, Domestic use for external use only is limited to 0.6 af.

G. PURPOSE OF USEIrrigation Y N # Stock Domestic # of Homes X

Other: < >

Change in Purpose of Use? Y N Method of Determination: Tax parcel data and conversations with owner.If Yes: From Use To Use Amount CFS AFA **H. NARRATIVE/REMARKS/COMMENTS**

This permit was filed as a domestic water right for external use only. I feel it should be described as an irrigation right, but it does fit within the domestic criteria. The tax parcel is a 0.7 acre lot with the majority of the parcel filled with two buildings and a driveway. A quick check of the yard, suggests that it is approximately 0.4 acres in size.

The permit required that a fish screen be installed on the pumping system. The owner did not provide confirmation that the fish screen had been installed on the proof of beneficial use report, so I will contact the owner prior to moving forward with the licensing of this permit. The owner stated in an email dated 5/9/207 that they have installed the fish screen.

All of the conditions on the permit should be carried for to licensing. Condition X59 should be added to show that the point of diversion is also located in Lot 13, of Campbell Point Lots Subdivision.

Have conditions of permit approval been met? X Yes No

I. 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	0.04 CFS	0.6 AF
<u>Totals:</u>		0.04 CFS	0.6 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 ☐ None

Other: < >

J. AUTHENTICATION – DANIEL A. NELSON – WATER RIGHT ANALYST 3

Field Examiner's Name  Date 5-8-17

Reviewer _____ Date _____



Permit 96-9641
Field Exam Map

The yellow border is
the place of use, and
the yellow circle is
the point of
diversion.

Nelson, Dan

From: Gary Pruitt <garyepruitt@gmail.com>
Sent: Tuesday, May 09, 2017 10:07 AM
To: Nelson, Dan
Subject: Re: Water Right Permit 96-9641

I do not think it is necessary for a sight visit. I think the system will work fine.

I am confirming that it does have the required fish screen installed and appears to be in good working order.

Thank you for your attention to this matter.

Gary Pruitt

On May 9, 2017, at 7:23 AM, Nelson, Dan <Dan.Nelson@idwr.idaho.gov> wrote:

Dear Mr. and Ms. Pruitt,

Our office recently received the "Statement of Completion for Submitting Proof of Beneficial Use" for water right permit 96-9641. This permit is small enough that it qualifies for a desk top review to verify the water use with a little assistance from you. If you decide you want someone to visit the property to perform the field examination, I can arrange that, but it looks as though we can easily confirm the water use without visiting the property.

All I need to move forward with the licensing of this permit is confirmation from you that you have installed the required fish screen on the pump system. It appears as though the pump was installed some time ago, and it has received periodic maintenance.

Once I receive verification of the fish screen, I feel I can verify the water use and submit a recommendation for licensing to my supervisor within a couple of days. I must ask that you supply the requested information within 30 days or by June 9, 2017. As stated above, if you would like someone to visit the site, I can send this file to our Northern Region office to set up an in-field inspection. If you do wish to have someone from our agency visit the site, you or a representative would need to be available and provide access to the pump to ensure the screen has been properly installed.

Please don't hesitate to contact me by email or telephone if you have any questions. I would be happy to discuss your water right with you.

Daniel Nelson
Water Right Analyst 3
Idaho Department of Water Resources
Telephone (208) 287-4856
Fax (208) 287-6700 (attn: Dan Nelson)

THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

Water Right No.: 96-9641
 Reviewer: Dan Nelson
 Date of Review: 5/8/2017

P/D No.:	Scenario 1	Scenario 2	Scenario 2	
PUMP HORSEPOWER	0.75	0.75	0.75	
BOOSTER HORSEPOWER	0	0	0	
PUMPING LEVEL	20	20	20	
DISCHARGE PRESSURE	40	50	60	
RATE OF FLOW (cfs)	0.04	0.03	0.03	Average
	18	15	13	0.04
				16.87

The above calculates the formula = $Q = \frac{8.8 * (\text{Efficiency}) * \text{hp}}{\text{depth to water} + 2.31 * (\text{psi}) + \text{friction}}$

Assumptions: %70 efficiency.
 No Friction

Examiners Notes: This is a fairly flat area, so I used an estimated 20 feet of lift. I also estimated the diversion pressure as being between 40 and 60 psi. Using these numbers, the 0.75 Hp pump that the permit holder stated in the application that they use for this facility should provide a diversion rate similar to the amount recommended in the permt.