

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

A. GENERAL INFORMATIONPermit No: 86-12058Exam Date: 4/29/2020

1. Does this qualify for an in-office field exam (IDAPA 37.03.02.035.01.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: Russell H. Zenner
 Owner of Record Correct? X Y N
 Address of Record Correct? X Y N
 If No: Address

The Department's tax parcel data shows the property for the place of use is in the ownership of Russell Zenner.

3. Beneficial Use Fees have been paid: X Y N Receipt No: Permit qualifies for fee exemption

4. SOURCE TRIBUTARY

Ground Water

Method of Determination: GIS, Well Driller's Report, Well Installation Records, and Tax Parcel Data

Change 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

Comments: There are no overlapping rights for this place of use.

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

Water Right No.	Source	Purpose of Use	Basis

Comments: There are no overlapping rights for this place of use.

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

Source	Govt. Lot	¼	¼	¼	Sec.	Twp.	Rge.		County
Well			SW	SW	35	38N	4W	B.M.	LATAH
								B.M.	
								B.M.	

Method of Determination: GIS, Well Driller's Report, Well Installation Records, and Tax Parcel Data

Change in POD? X N Amendment Required? X N

2. **PLACE OF USE:** Use: Domestic

TWP	RGE	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
38N	4W	35											D						
		Lot #																	
Total Acres =																			

Method of Determination: GIS and Tax Parcel 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
Well Pump	Berkeley	1.5	Model – 4-BL-21	Same as motor - Submersible	1.5 inch drop pipe size

*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: The permit holder supplied pump installation records, which shows the pump is set at 185 feet and the pumping level is listed as 175 feet. The total depth of the well is 195 feet.**E. FLOW CALCULATIONS** Additional Computation Sheets Attached

Measured Method:

The application for permit has the well installation bills and records. Therefore, there is more than enough of information to determine the flow rate of this system.

$$(8.8 \times 1.5 \times .70) / (175 + [50 \text{ psi} \times 2.31]) = 0.03 \text{ cfs}$$

Administrative Memo #22 = 0.04 cfs for domestic use**Theoretical Calculation = 0.03 cfs****Permit allowed = 0.04 cfs****I am recommending 0.03 cfs, since that is the capacity of the system according to the well records supplied in the application for permit.**

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:

I am required to fall back on the standard for domestic use set forth by Administrative Processing Memo #22. I am recommending a diversion volume of 1.2 af for in-house use and up to ½ acres of irrigation.

G. PURPOSE OF USE

Irrigation ☐ Y ☐ N # Stock Domestic # of Homes 1

Other: < >

Change in Purpose of Use? ☐ Y ☐ N

Method of Determination: Tax parcel information, GIS, and Well Records.

If Yes: From Use To Use Amount CFS AFA

H. NARRATIVE/REMARKS/COMMENTS

This permit qualifies for an in-house examination. The permit holder supplied all of the pump installation records, so there is an excellent information in the application for permit to determine the flow rate of the well, and to provide proof of actual use. The aerial imagery clearly shows a home on the property and irrigation of a yard area.

The only conditions that should be on this permit are X01 and 187.

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	0.03 CFS	1.2 AFA
	<u>Totals:</u>	0.03 CFS	1.2 AFA

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

Other: < >

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

Field Examiner's Name _____ Date _____

Reviewer Angela M. Gunn Date 5/14/2020

Field Exam Map:

The yellow border shows the place of use for this permit and the yellow dot shows the well or point of diversion.

