

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

A. GENERAL INFORMATIONPermit No: 67-15369Exam Date: 3/21/2022

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: Gary and Carole M. Gallant
- Owner of Record Correct? X Y N
- Address of Record Correct? Y N
- If No: Address

The Department's parcel data shows Gary G. and Carole M. Gallant as the owners of the property. Therefore, I don't see any issues with the ownership of this property.

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

4. **SOURCE** TRIBUTARY

Ground Water

Method of Determination: GIS, Well Driller's Report, and Tax Parcel DataChange in Source: Y X N**B. OVERLAP REVIEW**

1. Other water rights with the same place of use: YES Overlap

Water Right No.	Source	Purpose of Use	Basis
67-11270	Ground Water	Domestic and Stockwater	Decree
67-2048B	Goodrich Creek	Stockwater and Irrigation	Decree

Comments: Water right 67-11270 is a direct overlapping water right from a separate shallow well. It is clearly stated in this permit that there is only one single home, so 67-11270 is a direct overlapping water right. Water right 67-2048B is an irrigation right, but it appears as though this water right has not been used in some time, and it also looks as though the ditch for this right is no longer in place.

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

Water Right No.	Source	Purpose of Use	Basis

Comments: There are no other rights diverted from the well associated with this permit. Water right 67-11270 is diverted from a separate shallow well, but each well is considered an individual water source. Therefore, this right shouldn't be considered a direct overlap of the point of diversion. The point of diversion for 67-2048B is approximately 1.4 miles north of the home location.

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

Source	Govt. Lot	¼	¼	¼	Sec.	Twp.	Rge.		County
Well Tag # D0085331			NW	SE	5	15N	2W	B.M.	Adams
								B.M.	
								B.M.	

Method of Determination: GIS, Well Driller's Report, 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	
15N	2W	5														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	Unknown	2 ½			

*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 CALCULATIONS

___ Additional Computation Sheets Attached

Measured Method:

The *Statement of Completion for Submitting Proof of beneficial Use* states that the well has a 2½ pump. The *Well Driller's Report* shows a static water level of 374 feet and the pump test claims that the well was pumped dry (614 feet of depth) in 2 hours at a diversion rate of 8 gpm. I performed a theoretical calculation using the maximum depth and found that this well could divert 9 gpm at a depth of 614 feet and 14 gpm at 390 feet using an average pressure of 50 psi. Please see below for the calculations. I also used the standard for domestic use set forth by Administrative Processing Memo #22. For some reason, the permit was issued for much less than allowed by Administrative Processing Memo #22, but it is assumed that the reasoning was to allow the difference between the amount authorized by water right 67-11270 and Administrative Processing Memorandum #22, even though they are considered separate sources.

$$(8.8 \times 2.5 \text{ Hp} \times 0.7) / [390 \text{ ft} + (2.31 \times 50 \text{ psi})] = 0.03 \text{ cfs} \times 448.8 = 14 \text{ gpm}$$

$$(8.8 \times 2.5 \text{ Hp} \times 0.7) / [614 \text{ ft} + (2.31 \times 50 \text{ psi})] = 0.02 \text{ cfs} \times 448.8 = 9 \text{ gpm}$$

Administrative Memo #22 = 0.04 cfs for a single domestic use
Permit allowed = 0.02 cfs

I am recommending 0.02 cfs since the permit provides the limitation for this water use.

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:

Administrative Processing Memorandum #22 provides guidance to allow 1.2 af for in-house use and yard irrigation.

G. PURPOSE OF USE

Irrigation ___Y___N # Stock _____ Domestic # of Homes 1

Other: < >

Change in Purpose of Use? ___Y___N

Method of Determination: Taxlot data and conversations with owner.

If Yes: From Use _____ To Use _____ Amount _____ CFS _____ AFA _____

H. NARRATIVE/REMARKS/COMMENTS

This permit qualifies for an in-house examination. The permit holder drilled a 614 deep domestic well and filed an application for permit for domestic use and stockwater from this well. The permit holder also owns 67-11270 from a shallow well for the same domestic use and stockwater. The domestic use for 67-11270 was limited to 0.02 cfs. It was determined at permitting that the domestic use needed to be reduced to 0.02 cfs and the stockwater could not be approved. Taking this into account, there should be a condition on this permit to limit the domestic uses for 67-11270 and this permit to a single domestic use, since there is only one domestic use at this location. Due to the capacity of the well, there doesn't appear to be an issue with over diverting of this permit or water right 67-11270, but we need to ensure they are limited to a single domestic use.

All of the conditions on the permit will need to be removed or reworked. Condition 121 will need to be changed to condition 103 as is standard. The domestic condition should be altered to state the following:

When Rights 67-11270 and 67-15369 are combined the domestic use is limited to 1 home.

Have conditions of permit approval been met? ☒ 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	0.02 CFS	1.2 AFA
	<u>Totals:</u>	0.04 CFS	1.2 AFA

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 3-27-2022

Reviewer  Date 3/22/22

Field Exam Map:

The yellow border shows the place of use and the yellow point shows the point of diversion.

