

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

A. GENERAL INFORMATIONPermit No: 63-33852

Exam Date: 2/21/2019

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: David D. and Molly Hunsaker
 Owner of Record Correct? X Y N
 Address of Record Correct? X Y N
 If No: Address

Tax lot data shows David D. and Molly Hunsaker as the owners of the property.

3. Beneficial Use Fees have been paid: X Y N Receipt No: C106262

4. SOURCE

Ground Water

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
63-24079	Ground Water	Domestic	Decree

Comments: Water right 63-24079 is diverted from the same well and supplies the same property. This permit is an irrigation right, but 63-24079 does authorize up to ½ acre of irrigation. I did not include the ½ acre associated with water right 63-24079 in the place of use for this permit. There are several other rights in this 40 acre tract, but none of those rights are a direct overlap of the point of diversion or place of use.

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

Water Right No.	Source	Purpose of Use	Basis
63-24079	Ground Water	Domestic	Decree

Comments: Water right 63-24079 is diverted from the same well and supplies the same property. This permit is an irrigation right, but 63-24079 does authorize up to ½ acre of irrigation. I did not include the ½ acre associated with water right 63-24079 in the place of use for this permit. There are several other rights in this 40 acre tract, but none of those rights are a direct overlap of the point of diversion or 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			NE	SE	29	5N	1E	B.M.	Ada
								B.M.	
								B.M.	

Method of Determination: GIS and Tax Lot dataChange 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	
5N	1E	29													0.9				0.9
		Lot #																	
Total Acres =																			0.9

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
Well 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
NONE						

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

E. FLOW CALCULATIONSYES Additional Computation Sheets

Attached

Measured Method:

There was very little information in the file describing the pumping system for this permit. Therefore, I used the standard described in Processing Administrative Memorandum # 17.

Administrative Memorandum # 17 = 0.9 acres X 0.03 cfs = 0.027 cfs (rounded to 0.03 cfs)
Permit allowed = 0.12 cfs

I am recommending a diversion rate of 0.03 cfs, since this is the maximum diversion rate for 0.9 acres that complies with Administrative Memorandum # 17

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 0.9 \text{ acres} \times 4.5 \text{ af} = 4.05 = \underline{4.1 \text{ AF}}$$

$$V = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.03 \text{ cfs} \times 260 \text{ days} \times 1.9835 = 15.5 \text{ af}$$

D.R.

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = \underline{4.1 \text{ af}}$$

2. Volume Calculations for Other Uses:

N/A

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

Other: < >

Change in Purpose of Use? Y NMethod of Determination: Parcel data and water right file.

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

H. NARRATIVE/REMARKS/COMMENTS

This permit qualifies for an in-house field examination. Even with the overlapping water right, the total acres irrigated is 1.4 acres and total diversion rate is 0.07 cfs, which is below the maximum rates and acres that require an in-field inspection. The original permit requested the irrigation of more acres and a higher diversion rate, but the aerial imagery confirms that the most that has been irrigated since the permit was issued in 2014 is 1.4 acres.

Water right 63-24079 authorizes water from the same well as this permit for in-house domestic use and up to 1/2 acre of yard irrigation. My review of the place of use determined that the maximum land irrigated during the development period from 2014 to 2018 was 1.4 acres. The 1.4 acres included the yard, a tree line along the driveway, a tree line along the road north of the driveway, and the south pasture. I considered the yard and the tree lines as part of the domestic use, and those areas do come to approximately 1/2 acre of irrigation. This leaves the south pasture to be covered by this permit. The south pasture is 0.9 acres of irrigation, so this permit authorizes a total of 1.4 acres to be irrigated between water right 63-24079 and this permit.

Conditions 01M and 165 will be carried forward to licensing. Condition R69 will need to be changed to Condition X31. Condition 8 on the permit will also be carried forward to licensing. Condition 121 will be changed to condition 103 as is standard. Condition X60 will be split into conditions X59 and X60 as is standard. Condition 11 on the permit form will be changed to condition 930, and the water bearing zone will be adjusted to state the water bearing zone will be between 200 and 306 feet as stated in the well driller's report attached to the application for permit. It appears as though the water bearing zone was rounded to 300 feet, but the well has a total depth of 306 feet, and is screened to the 306 foot level. All of the other conditions on the permit will be removed as is standard. No additional conditions are needed.

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>
Irrigation	03/01 to 11/15	0.03 CFS	4.1 AF
<u>Totals:</u>		0.03 CFS	4.1 AF

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

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

2-22-19

Reviewer



Date

2/24/19

Permit 63-33852

The first image shows the total irrigated acres (1.4 acres) as the green hatched area. The yellow border shows the place of use for this permit (0.9 acres). The green hatched area outside the yellow border is the $\frac{1}{2}$ acres of irrigation authorized by the domestic use in water right 63-24079.



The image on the right is a 7/18/2018 Google Earth image of the place of use. You can clearly see that the yard and pasture to the south of the home is the only area irrigated. The image on the left is the 2018 Sentinel imagery which confirms the acres irrigated.

