

MEMORANDUM

TO: 63-34276

FROM: Daniel A. Nelson

DATE: November 26, 2021

SUBJECT: Telephone Call With Lawrence Leuzzi

On this date, I spoke with Mr. Leuzzi. During the telephone call concerning the overlapping water right 63-10118. Mr. Leuzzi tried to get the owner's of the property where the well is located for water right 63-10118 to give him some water under the existing water right. The owners of the well property wanted to charge him a large amount of water to use water right 63-10118. There were also some issues with easement problems and issues with the properties and the roads.

Mr. Leuzzi stated that he doesn't want to deal at all with water right 63-10118. He said that he would prefer that 63-10118 be forfeited, and he would use the water right from his well. He just wants to use his water right 63-34276.

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

A. GENERAL INFORMATIONPermit No: 63-34276

Exam Date: 11/24/2021

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: Lawrence N Leuzzi
Owner of Record Correct? X Y N
Address of Record Correct? Y N
If No: Address

The Department's parcel data shows Leuzzi Lawrence as the owner 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: C111357

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
63-10118	Ground Water	Irrigation	License
Wilder Irrigation District	Boise River	Irrigation	Various Decreed Water Rights
Boise Project Board of Control	Wastewater, Ten Mile Creek, Indian Creek, Boise River, and Five Mile Creek	Irrigation	Various Decreed Water Rights

Comments: The application for permit states that the Wilder Irrigation District and Boise Project of Board of Control water rights are not deliverable to this property. This property is on a hill, so the ability to deliver canal water doesn't seem reasonable. Water right 63-10118 is a direct overlap for this property. No mention of this overlapping water right was in the application for permit or permit review. A review of the aerial imagery suggests that this right may not have been used on this property since 2004. Landsat imagery is too difficult to discern this small of a parcel, and Sentinel imagery only goes back to 2016. Therefore, I cannot confirm whether or not this parcel has been irrigated by the water from wells associated with 63-10118 since 2004. A water right transfer was approved for 63-10118 in 2010, so there may have been some water use during that time. Since we cannot confirm or deny that this parcel has been irrigated within the last 5 years, we will need to have combined limitations for this permit. Water rights 63-21550 is a domestic right for the original homestead, and 63-26098 is for the property to the south.

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

Water Right No.	Source	Purpose of Use	Basis

Comments: The well for the point of diversion for this permit was drilled in 2018, and there are no other rights listing this well as a point of diversion.

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

Source	Govt. Lot	¼	¼	¼	Sec.	Twp.	Rge.		County
Well Tag # D0077252	6		NW	SW	6	3N	3W	B.M.	Canyon
								B.M.	
								B.M.	

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

Please Note: The application for permit lists two points of diversion, but the map clearly states that only one well would be drilled for this permit. They were just unsure of the location of the well.

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	
3N	3W	6										D S 1.3	D S 0.5						1.8
		Gov. Lot										6	7						
Total Acres =																			1.8

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	Franklin Electric	5	16M14-15-00240C	Same as Motor	

*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 permit holder supplied the well driller's report and the billings for the well drilling and the pump installation. I estimated the lift for this well from the Well Driller's Report by subtracting the static level from the total depth and divide that number in $\frac{1}{2}$ and then adding that number back into the static water level to get an estimated lift of 179 feet ($\{[255 \text{ ft total depth} - 103 \text{ ft static}] / 2\} + 103 = 179$). The pump install sheet shows approximately 210 feet of drop pipe, so this pumping level does sound reasonable. Using this lift and a standard average pressure of 50 psi for a home. The flow rate is calculated as followed:

$$(5 \text{ Hp} \times 0.70 \text{ Eff} \times 8.8) / (179 \text{ ft lift} + [50 \times 2.31]) = 0.105 \text{ cfs rounded to } 0.11 \text{ cfs.}$$

Administrative Memo #22 = 0.04 cfs for domestic use

Administrative Memo #17 = 0.03 cfs X 1.8 acres = 0.054 rounded to 0.05 cfs.

Administrative Memo #3 = 10 head = 0.02 cfs

Total = 0.11 cfs

Permit allowed =

Domestic = 0.04 cfs

Stockwater = 0.02 cfs

Irrigation = 0.08 cfs for 3.7 acres of irrigation.

I am recommending 0.04 cfs for domestic, 0.02 cfs for stockwater, and 0.05 cfs for irrigation use for a total of 0.11 cfs. The 0.11 cfs matches the water system development and probably explains the need to reduce the number of acres irrigated.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 1.8 \times 4.45 \text{ af/ac} = 8.1 \text{ acre-feet}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.05 \text{ cfs} \times 260 \text{ days} \times 1.9835 = 25.8 \text{ acre-feet}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 8.1 \text{ acre-feet}$$

2. Volume Calculations for Other Uses:

Administrative Memo #22 allows 0.6 af for in-house domestic use only.

Administrative Memo #3 allows 0.2 acre-feet for up to 10 head

G. PURPOSE OF USE

Irrigation X Y ___ N # Stock 10 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 only real issue with this permit is the overlapping water right 63-10118. I have explained this overlap above, but there will need to have a combined limitation condition. Please see the attached maps showing the places of use and points of diversion for 63-10118 and this permit.

The permit holder only irrigated a maximum of 1.8 acres. The permit holder stated in the proof of beneficial use form that he was irrigating 3.7 acres. This is a 4.3 acre parcel that clearly has kept the southern portion of the parcel as a corral and/or an riding arena. The October 10, 2021, Sentinel imagery below clearly shows that the southern portion was not irrigated. There also appears to be a dry area north of the home, but I think this landscaping with gravel and various plants planted within the gravel area. Therefore, I did give them this northern yard area, since I do believe some irrigation does occur in this area for various plants.

The permit shows 2 points of diversion, but the map clearly states that only one well would be developed. They just didn't know where the point of diversion would be located. The well drilling report show a GPS'ed location, and there is only one well within the boundaries of this parcel. Only one point of diversion will be recommended.

Conditions R69 will be carried forward to licensing. Condition 121 will be changed to 103 as is standard. Condition WB5 will replace X01 at licensing to show the irrigation use will be covered by the irrigation component of this permit, and the domestic use for in-house use only. Condition X35 will be added to limit the authorized water use as shown below:

Rights 63-10118 and 63-34276 when combined the irrigation use shall not exceed a total diversion rate of 0.72 cfs, a total annual maximum diversion volume of 157.5 af at the field headgate, and the irrigation of 70 acres.

You will notice a slightly larger diversion rate of 0.72 cfs for the combined limit. The reasoning behind this increase is because this permit can divert an additional 0.01 cfs per acre for a total of 0.02 cfs, because this parcel is under 5 acres. Administrative Memorandum # 17 allows up to 0.03 cfs for parcels under 5 acres, so the additional diversion should be reflected in the combined limitation condition.

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	0.04 CFS	0.6 AF
Stockwater	01/01 to 12/31	0.02 CFS	0.2 AF
Irrigation	03/01 to 11/15	0.05 CFS	8.1 AF
<u>Totals:</u>		0.11 CFS	8.9 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 3Field Examiner's Name Daniel A. Nelson Date 11-26-21Reviewer TH Date 11/26/21

Field Exam Map:

The yellow border shows the place of use for domestic and stockwater portion of this permit. The yellow border is also the same as the tax parcel for this permit. The green border shows the place of use for the irrigation portion of this permit. The yellow point shows the point of diversion.



The October 10, 2021, Sentinel imagery below shows the irrigated acres hasn't changed from the 2019 NAIP imagery shown above. It clearly shows the back portion of the parcel are corrals and/or riding arenas.



The following map shows the overlapping water right 63-10118 within the red border and with the red points showing the points of diversion. You can clearly see that 63-10118 completely overlaps the place of use for this permit shown in the green and yellow.

