

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

A. GENERAL INFORMATIONPermit No: 63-33805

Exam Date: 11/1/2021

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: Brandt and Quinn Ruzicka
Owner of Record Correct? X Y N
Address of Record Correct? Y N
If No: Address

The Department's parcel data shows Brandt and Quinn Ruzicka 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: C111200

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: NO Overlap

Water Right No.	Source	Purpose of Use	Basis
63-18700	Boise River	Irrigation	Decree
63-123E	Boise River	Irrigation	Decree
City of Eagle – 63-12448 And 63-11413	Ground Water	Municipal	Licenses

Comments: Water rights 63-18700 and 63-123E are irrigation rights for Capital View Irrigation Inc. These rights have a large border, but only supplies 687 acres of irrigation from a canal. The maps in the adjudication backfile for these rights clearly show the lands associated with this permit have never been irrigated by water rights 63-18700 and 63-123E. The border for this organization was established by a court order, so it cannot be changed to just show the lands actually irrigated. The City of Eagle rights do include this area within its Service Area, but it is very clear that there are no water lines from the city supplying this property. Although there does appear to be overlapping water rights, none of these rights are used on this property.

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.

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

Source	Govt. Lot	1/4	1/4	1/4	Sec.	Twp.	Rge.		County
Well Tag # D0069030			NW	NE	32	5N	1E	B.M.	Ada
								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	
5N	1E	32		4.4															
				D															
				S															
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				

*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:

There was no information submitted with the application for permit that tells what the size of the well pump is for this permit. Therefore, I am required to fall back on the standards set forth by Administrative Processing Memo #3, #17, and #22.

Administrative Memo #3 = 10 head of mixed livestock = 0.02 cfs for stockwater use

Administrative Memo #17 = 0.03 cfs X 4.4 acres = 0.13 cfs for irrigation use

Administrative Memo #22 = 0.04 cfs for in-house use only domestic use

Total per Administrative Memorandums = 0.19 cfs

Permit allowed = 0.02 cfs stockwater, 0.14 cfs irrigation, and 0.04 cfs for a total of 0.20 cfs.

I am recommending the diversion rate limits of the Administrative Memorandums. The only difference between the Administrative Memorandums and the permit is the reduction of acres irrigated from 4.5 acres to 4.4 acres.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 4.4 \text{ acres} \times 4.5 \text{ af/ac} = 19.8 \text{ acre-feet}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.13 \text{ cfs} \times 260 \text{ Days} \times 1.9835 = 67.0 \text{ acre-feet}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 19.8 \text{ acre-feet}$$

2. Volume Calculations for Other Uses:

Administrative Processing Memorandum #22 provides guidance to allow 0.6 acre-feet for in-house use only. Administrative Processing Memorandum #3 authorizes up to 0.2 acre-feet for 0 to 10 head of mixed stock.

I am recommending volumes of 19.8 acre-feet for irrigation, 0.6 acre-feet for domestic use, and 0.2 acre-feet for stockwater use for a total of 20.6 acre-feet.

G. PURPOSE OF USE

Irrigation ☒ 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. This permit is a single home on a 5.3 acre-parcel.

The biggest issue was determining the maximum acres that were irrigated during the development period. When the current owner's property purchased the property, they drilled a well, and began irrigating the property. The irrigation component was difficult to determine based on what the aerial imagery showed. Shortly after they started irrigating, they started building a home. In my review of the aerial imagery, even with the various irrigation configurations, the permit holder hasn't irrigated more than 4.4 acres. Please review the aerial imagery attached to this report to see the changes in irrigation, and the acres calculated based on each aerial image.

There were some concerns about the overlapping water rights, but after my review, I am confident that there are no other water rights available to this property.

Conditions 01M and R69 should be carried forward to licensing. The remaining conditions should not be included on the license or updated. Condition 121 should be changed to condition 103 as is standard. Condition X01 should be changed to condition 132, since the irrigation use is covered by the irrigation component of this permit. We should use the updated version of 165. The water bearing condition should be changed to condition 930 with the water bearing zone changed to 287 to 297 feet, since the well screens are only at this location.

This right had condition 073, which is a geothermal condition. This well was drilled at a temperature of 58 degrees and is several miles outside of the Boise Front Low Temperature Geothermal Ground Water Management Area, so there is no reasoning for a geothermal condition to be added to this permit. The water bearing zone will also prevent any interference with the 300-foot limitation imposed by the Boise Front Geothermal Management Area. Since any concerns about the management area have been eliminated, the condition requiring a monitoring plan will also be removed.

Conditions X59 and X60 will also need to be added to give a better description of the parcel. This parcel is in Lot 6, Block 1 of Willowcreek 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 AFA
Stockwater	01/01 to 12/31	0.02 CFS	0.2 AFA
Irrigation	03/01 to 11/15	0.13 CFS	19.8 AFA
<u>Totals:</u>		0.19 CFS	20.6 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

11-1-21

Reviewer



Date

11/3/21

Field Exam Map:

The yellow border shows the place of use and the green point shows the point of diversion. The shape for this map was taken from 2020 Google Earth imagery. The 2019 and 2020 imagery both suggest that there has been irrigation within the yellow place of use. I am confident that these acres have been irrigated. There is a dry patch that I believe is a garden that is in-between the corrals. You can see what appears to be rows in this area that suggests that it is a garden area.

2019 Aerial Imagery



12/8/2020 ESRI Imagery



The yellow border below shows the domestic and stockwater place of use and also the tax parcel for this permit.



The imagery below shows the different irrigation configurations throughout the years. The 2020 Google Earth imagery and the 2019 GIS imagery suggest that the total acres irrigated was 4.4 acres. The 2017 irrigated acres show a different irrigation configuration, but 4.4 acres are still being irrigated in 2017. The imagery for 2015 is a bit harder to define the actual lands being irrigated, but I do think I have a reasonably good representation of the acres irrigated. I found 4.2 acres irrigated in 2015. Taking this information into account, I am very comfortable for recommending 4.4 acres of irrigation for this property.



Google Maps

The following Google Images below show the transition of the property during the development period. As you can see the system has changed a bit over the years, but there is clear evidence of a significant attempt to irrigate this property.

2020 Google Earth Imagery



2017 Google Earth Imagery



2016 Google Earth Imagery



2015 Google Earth Imagery

