

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

A. GENERAL INFORMATION

Permit No: 63-33240

Exam Date: 12/11/82018

1. Does this qualify for an in-office field exam (IDAPA 035.02.r)? X Y N
- a. Irrigation of 5 acres or less
 - b. Storage of up to 14.6 AF for stockwater purposes only
 - c. Any use other than irrigation or storage, if the combined diversion rate is 0.24 cfs or less
 - d. Other < >

2. Current Owner: Name: Tom Points and Kari Fredrick Points.

Owner of Record Correct? X Y N

Address of Record Correct?	X	Y	N
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If No: Address

The Department parcel data shows Thomas Points as the owner of the parcel.

3. Beneficial Use Fees have been paid: ☒ X ☐ Y ☐ N Receipt No: C105933

- 4.
- SOURCE**
- Receipt
-
- TRIBUTARY

Ground Water

Method of Determination: This permit uses the same well as water right 63-11196. The location of the well and point of diversion for water right 63-11196 do not match the maps is the field exam for 63-11196 or the maps supplied in the application for permit. I have corrected the point of diversion for 63-11196 and the well based on the field exam maps supplied in 63-11196.

Change in Source: $\frac{Y}{x} \times N$

B. OVERLAP REVIEW

1. Other water rights with the same place of use: NO Overlap

Water Right No.	Source	Purpose of Use	Basis

Comments: I have to contact owner to see if he has any Black Canyon Shares, and he told me he was on a hill and couldn't get any Black Canyon Water to his property. Therefore, he doesn't have any canal company shares. There are no water rights directly overlapping the place of use.

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

Water Right No.	Source	Purpose of Use	Basis
63-11196	Ground Water	Irrigation	License

Comments: Water right 63-11196 is a direct overlapping right. There are several other rights in this same area that are in the same 40 acre tract, but are for different water systems.

C. DIVERSION AND DELIVERY SYSTEM

1. LOCATION OF POINT(S) OF DIVERSION:

[illegible]

Method of Determination: Tax parcel data and information from water right 63-11196.Change in POD? N Amendment Required? N2. **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	2W	21													1.9				1.9
		Lot #																	
Total Acres =																			1.9

Method of Determination: Tax Parcel Data and GISChange in POU? X N Amendment Required? 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	Signature 2000	3		Signature 2000	

*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

2. Measurements: Used a theoretical analysis and information from water right 63-11196**E. FLOW CALCULATIONS** Additional Computation Sheets Attached

Measured Method:

I spoke with the property owner, and he informed me that they have not changed out the pump in the irrigation well and it is the same pump that was in the well when water right 63-11196 was licensed. No measurement was done for water right 63-11196, but they stated that the pump was rated at 41 gpm. The theoretical calculation also showed 41 gpm, so I am assuming that the actual pump capacity is 41 gpm or 0.09 cfs. When the two systems are combined they are allow more than 5 acres of irrigation, so I am recommending that the diversion rate not exceed 0.02 cfs per acre.

Theoretical = 0.09 cfs**63-11196 = 0.09cfs****Permit allows – 0.08cfs****Acre Limit = 1.9 ac X 0.02 cfs = 0.04 cfs**

I am recommending a diversion rate of 0.04 cfs for this permit. When water rights 63-11196 and this permit are combined, they should be limited to 0.09 cfs, which is the system capacity.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 1.9 \times 4.5 = 8.6 \text{ af}$$

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

$$V = \text{Smaller of } V_{IR} \text{ and } V_{D.R.} = 8.6 \text{ af}$$

2. Volume Calculations for Other Uses:

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

Other: < >

Change in Purpose of Use? ☐ Y ☐ NMethod of Determination: Tax Parcel information and GIS

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

H. NARRATIVE/REMARKS/COMMENTS

This permit qualifies for an in-house field examination. A field examination was done on water right 63-11196 for the well that supplies water to this property on June 4, 1996. The owner stated that he is using the same well in the irrigation well that was described in the field for water right 63-11196. Water right 63-11196 uses the same well to irrigate 4.9 acres in the SENE of Section 21 in Township 5 North, Range 2 West. This permit uses the same well to irrigate approximately 1.9 acres in the NESE of Section 21 in Township 5 North, Range 2 West. With the two rights combined, the system can irrigate a total of 6.8 acres, so we cannot use the 0.03 cfs per acre limitation for this right.

The well is a 3 Hp well that is estimated to use approximately 41 gpm. The theoretical calculation I performed confirm the output of the well at 41 gpm. There will need to be a condition that limits the diversion rate from the well to the capacity of the well or 41 gpm. The Volumetric capacity of the well is 46.4 af (0.09 cfs X 260 days X 1.9835 = 46.4 af), which is more than enough to supply the 8.6 af of water for this permit and the 22.1 af of water from water right 63-11196.

The point of diversion for this property was clearly described in the field examination for water right 63-11196. However, the well location and the point of diversion in the Department's mapping program to be on a completely separate parcel. Therefore, I corrected the mapping to show the location of point of diversion as described in water right 63-11196 to ensure that the well location and the point of diversion for water right 63-11196 and permit 63-33240 are correctly shown in the Department's mapping records.

The place of use included a tree line that wraps around the driveway. The tree line was not in place until after this permit was filed, so it should be included in the place of use for this permit to ensure that it is covered. I did not include any of the lands in the SENE of Section 21, since they should all be covered by water right 63-11196. I couldn't find more than 3.5 acres of irrigation in the SENE and water right 63-11196 allows up to 4.9 acres of irrigation, so water right 63-11196 should be able to cover all of the lands actually irrigated in the SENE including the trees around the corral.

I removed conditions 1 and 2 on the permit as is standard. I kept condition 2 (004), because the well is on a different tax parcel than the place of use. I removed condition 4 (26A) as is standard. I carried forward condition R65 even though this permit was for less than 5 acres, because between this permit and water right 63-11196, the permit holder can irrigate more than 5 acres from the same well in the same system. I changed condition 6 (X36) to condition F06, which is the modern version of this condition. I removed conditions 7 (X59) and 8 (X60) because these parcels do not include a lot and block designation. The lots listed on the permit have been split, so they are very confusing and don't represent the actual location of the property and the well location. Condition 9 (121) was replaced with condition 103 as is standard. I also included condition X35 to limit the diversion rate to 0.09 cfs when water right 63-11196 and 63-33240 are combined.

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	0.04 CFS	8.6 AF
<u>Totals:</u>		0.04 CFS	8.6 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 – ANALYST 3

Field Examiner's Name  Date 12-11-18

Reviewer _____ Date _____

Permit 96-9713 – Field Exam Map

The aerial imagery used for this map is the 2013 NAIP photography. It clearly shows the home and the irrigated yard down by the lake shore.

