

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

A. GENERAL INFORMATIONPermit No: 63-33853

Exam Date: 5/8/2017

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: Allison Parker and Jeff Roelke
- Owner of Record Correct? X Y N
- Address of Record Correct? Y N
- If No: Address

Tax lot data shows Jeffery A. Roelke and Allison C. Parker as the owners of the property.

3. Beneficial Use Fees have been paid: X Y N Receipt No: C0103468
- The permit holders actually overpaid the fee for the proof report. Please see the Proof of Beneficial Use review sheet.

4. SOURCE TRIBUTARY
- Ground water
- Method of Determination: Well Driller's Report, GIS and Tax Parcel Data
- Change 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

Comments: There are 11 private water rights in the same 40 acre tract, but they are all for other properties. Farmer's Union water rights are also in the same 40 acre tract, but their borders end just south of the permit holder's place of use.

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

Water Right No.	Source	Purpose of Use	Basis

Comments: There are 4 other water rights with a point of diversion in the same 40 acre tract. However, all of these rights are for neighbors to the east or southeast of this property.

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

Source	Govt. Lot	¼	¼	¼	Sec.	Twp.	Rge.		County
Well	1		NW	NW	31	5N	1E	B.M.	ADA
								B.M.	
								B.M.	

Method of Determination: GIS and Tax Lot data.Change 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	31					2.2	2											4.2
		Lot #					1												
Total Acres =																			4.2

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	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 on the pumping system in the permit file. I used the standard irrigation requirements allowed for the irrigation of property less than 5 acres of 0.03 cfs per acre allowed in Processing Administrative Memorandum #17.

Acres Limits = 4.2 acres X 0.03 cfs per acre = 0.126 cfs

Permit allowed = 0.12 cfs

I am recommending a diversion rate of 0.12 cfs per the limits set forth in the permit. They could have had 0.13 cfs, but this is a rounding issue, so we need to go with what was approved in the permit.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 4.2 \text{ acres} \times 4.5 = 18.9 \text{ af}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.12 \text{ cfs} \times 214 \times 1.9835 = 61.9 \text{ af}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 18.9 \text{ af}$$

2. Volume Calculations for Other Uses:

N/A

G. PURPOSE OF USE

Irrigation ☒ Y ___ N # Stock _____ Domestic # of Homes _____

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 is a basic irrigation right. The aerial photos available to the Department don't provide proof of irrigation, but the 2016 Google Earth photos and the Sentinel satellite imagery confirm irrigation for this property. Please see the attachments for this confirmation.

This permit was approved for 4.2 acres, but the shape file associated with the permit approval only showed 3.8 acres. The permit holder established an exempt domestic use per Idaho Code § 42-111 for the in-house use and yard irrigation prior to the filing of this permit. The well driller's report states that the well was developed in 2001, long before this permit was issued in 2013. This permit was used to pick up the remaining 4.2 acres being irrigated from the well beyond the domestic exempted use. I checked the acres that were could have been irrigated, and found approximately 4.7 acres that could have been irrigated. Therefore, I increased the size of the shape file, so it would match the 4.7 acres being irrigated when this permit and the exempt use were added together.

This permit has a water bearing zone limitation. The water bearing zone is very close to the minimum allowed within the Basin 63 Restricted area. This issue was resolved during the permitting process, so there is no reason to alter the water bearing zone or the conditions of this permit during the licensing process.

Conditions 1 (26A) and 6 (004) will be removed at licensing. Condition 2 will be changed to the Department standard of 930. Conditions 3 (166), 4 (165), and 5 (R69) will be carried forward to licensing. Condition 7 (121) will be changed to condition 103 as is standard.

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	0.12 CFS	18.9 AF
<u>Totals:</u>		0.12 CFS	18.9 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 3

Field Examiner's Name  Date 5-8-17

Reviewer _____ Date _____



Permit 63-33853 -- Field Exam Map

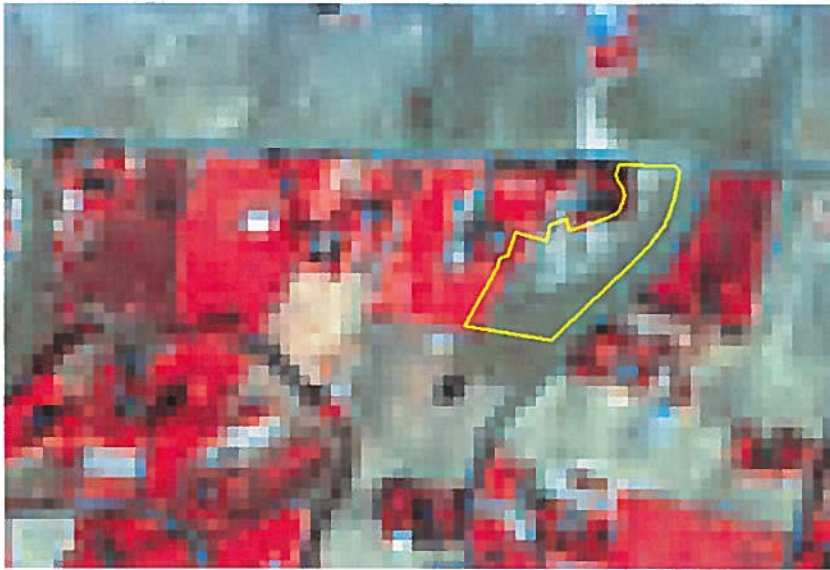
The yellow dot and yellow border above designate the point of diversion and place of use for this permit.

Permit 63-33853 – 2016 Google Earth Map



The above aerial image suggests that this field is irrigated. From the aerial photo, you can see that the field has recently been cut for what appears to be grass hay. You can clearly see the windrows in the photo.

Permit 63-33853 – Proof of Irrigation – 2016 Sentinel Imagery.



The 2016 Sentinel Image above shows the place of use on August 27, 2016. As you can see, it doesn't appear to have been irrigated. However, the November 8, 2016, image below shows the property is clearly being irrigated.

