

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

A. GENERAL INFORMATIONPermit No: 63-33001

Exam Date: 06/27/2019

1. Does this qualify for an in-office field exam (IDAPA 035.02.r)? **Yes**
 - a. Irrigation of 5 acres or less.
2. Current Owner: Name: **Katheryn K Whitney OR Robert B Whitney**
 Owner of Record Correct? **Yes**
 Address of Record Correct? **Yes**
 If No: Address
3. Beneficial Use Fees have been paid: **Yes** Receipt No: **W036323**

4. SOURCE TRIBUTARY
Groundwater N/A

Method of Determination: **Well Construction database; no surface water present (2017 NAIP imagery).**
 Change in Source: **No**

B. OVERLAP REVIEW

1. Other water rights with the same place of use: **No**

Water Right No.	Source	Purpose of Use	Basis

Comments: **The house and yard are covered by an exempt water right according to Idaho Code 42-111 and 227. Owner stated he was going to file a late claim for the domestic use. There are no other rights in this 40 acre tract.**

2. Other water rights with the same point of diversion: **No**

Water Right No.	Source	Purpose of Use	Basis

Comments: **The house and yard are covered by an exempt water right according to Idaho Code 42-111 and 227. Owner stated he was going to file a late claim for the domestic use. There are no other rights in this 40 acre tract.**

C. DIVERSION AND DELIVERY SYSTEM

1. LOCATION OF POINT(S) OF DIVERSION:

Source	Govt. Lot	¼	¼	¼	Sec.	Twp.	Rge.		County
Groundwater			SE	SW	35	05N	02W		Canyon

Method of Determination: **GIS layers: Counties, PLS, parcels, wells, well log, permit map**

Change in POD? **No** Amendment Required? **No**

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	
05N	02W	35												3.0					3.0
		Lot #																	
Total Acres =																			3.0

Method of Determination: Aerial imagery: **Google Earth, NAIP Imagery; photos from owner.**

3. Change in POU? No Amendment Required? No
 ___ 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
D0015384					

*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: **This was an in-house examination, so no site visit or measurements were done.**

E. FLOW CALCULATIONS

___ Additional Computation Sheets Attached

Measured Method:

Per App. Processing Memo #17, up to 0.03 cfs/acre for irrigation up to 5 acres acceptable. The owner said the unrestricted flow from the well is 60 gpm. With the in-ground irrigation connected the flow drops to 40 gpm.

Conversion factor for gpm to cfs: 448.8

Admin memo allows: **3 acres(0.03cfs) = 0.09 cfs**
 Owner's estimate: **40 gpm/448.8 = 0.09cfs**
 Permit authorizes: **0.09 cfs**

License recommended for 0.09 cfs.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 3 \times 4.5 = 13.5 \text{ AF}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.09 \times 260 \times 1.9835 = 46.4 \text{ AF}$$

V = Smaller of $V_{I.R.}$ and $V_{D.R.}$ = 13.5 AF

2. Volume Calculations for Other Uses: N/A

G. PURPOSE OF USE

Irrigation

Change in Purpose of Use? **No**

Method of Determination: **Irrigated land is visible in aerial imagery.**

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

H. NARRATIVE/REMARKS/COMMENTS

This permit authorizes the diversion of .09 cfs from groundwater to irrigate 3 acres. Proof was submitted on 4/29/2019. The in-house exam was conducted on 6/26/2019 with the permit holder and Dan Nelson present.

The POD is an 8 inch well with metal tag no. D0015384. It is located at 116.54432 W 43.724163 N. The well is used for domestic and irrigation using the same pump. The irrigated area located in the SW corner of the property, and the largest irrigated area in the southern portion of the property are irrigated with in-ground sprinklers fed by in-ground tubing. The upper area to the north is watered with a portable sprinkler.

The POD and POU are within the geographic extent of Water District 63, but are excluded since this source is groundwater and Water District 63 includes only surface water.

Have conditions of permit approval been met? **Yes. Permit 63-12587 was relinquished on 5/4/2009.**

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	0.09 CFS	13.5 AF
<u>Totals:</u>		0.09 CFS	13.5 AF

2. Recommended Amendments

___ Change P.D. as reflected above ___ Add P.D. as reflected above X None

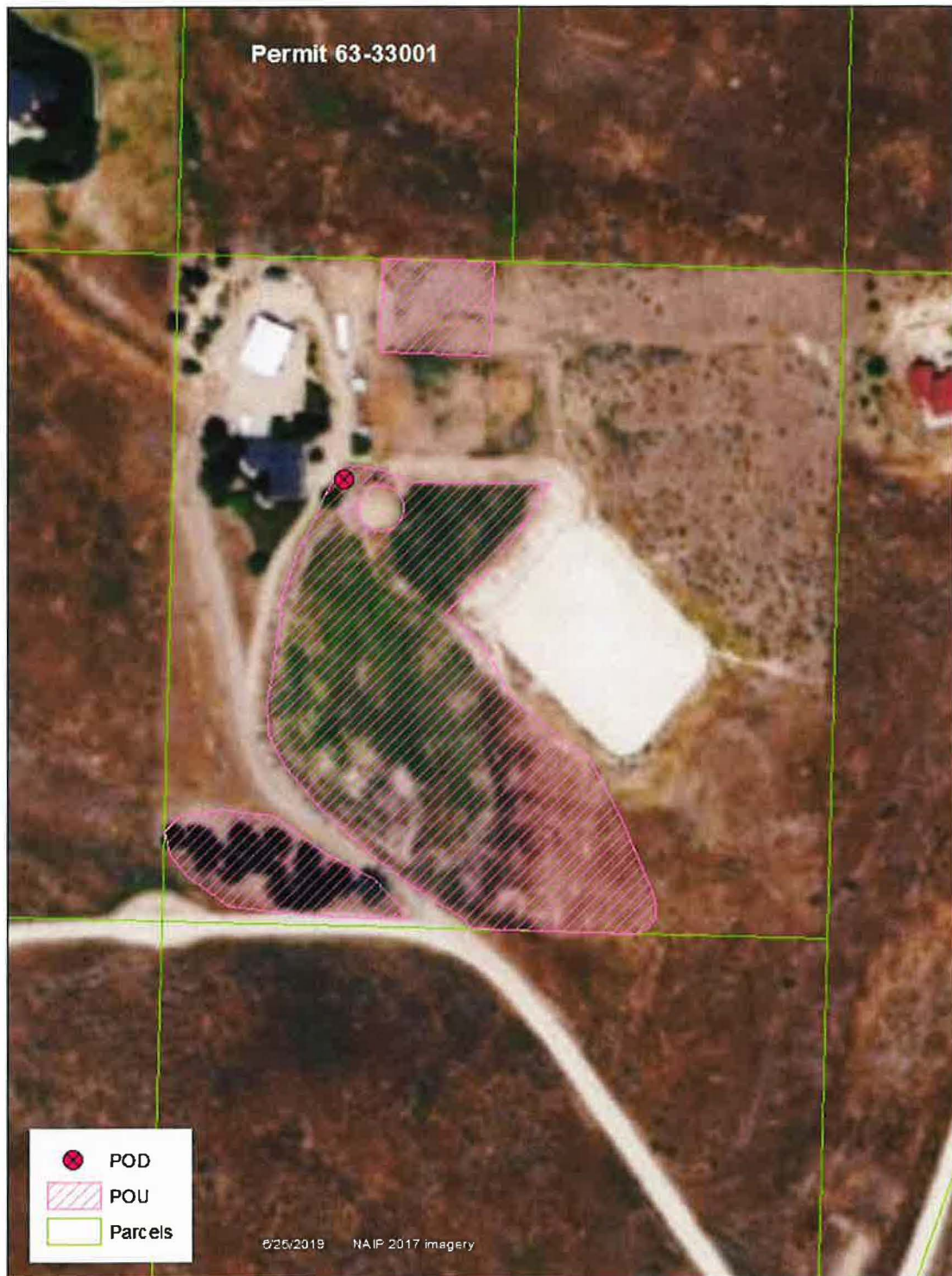
___ Change P.U. as reflected above ___ Add P.U. as reflected above X None

Other: N/A

J. AUTHENTICATION

Field Examiner's Name Paula J. Dillon Date 7-1-2019
Paula J. Dillon, GIS Analyst

Reviewer Dan Nelson Date 7-1-19





SW corner of upper (northern) irrigated area looking east.



NE corner of upper irrigated area looking SW.
Wood fence runs along the west side of this Area in a north-south direction.



NW corner of the upper irrigated area

The wire fence runs along the south side in an east-west direction.