

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

A. GENERAL INFORMATION

Permit No: 63-33407

Exam Date: 2/17/2016

1. Does this qualify for an in-office field exam (IDAPA 035.02.r)? ☒ Yes ☐ No
- 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: H James Holmes and Marcia L Holmes
Owner-of-Record Correct? ☒ Yes ☐ No
Address-of-Record Correct? ☒ Yes ☐ No
If No: <Address>

3. Beneficial Use Fees have been paid: ☒ Yes ☐ No Receipt No: C101413

4. SOURCE TRIBUTARY

Ground water
Method of Determination: aerial photography

NA

Change in Source: ☐ Yes ☒ No

B. OVERLAP REVIEW

1. Other water rights with the same place of use: Overlap? ☐ Yes ☒ No

Water Right No.	Source	Purpose of Use	Basis

Comments: The property has an existing, unrecorded domestic use.

2. Other water rights with the same point of diversion: Overlap? ☐ Yes ☒ No

Water Right No.	Source	Purpose of Use	Basis

Comments: The existing domestic well has been utilized to also serve this irrigation use. The well upgrade fee was paid by the original permit holder.

C. DIVERSION AND DELIVERY SYSTEM

1. LOCATION OF POINT(S) OF DIVERSION:

Source	Govt. Lot	¼	¼	¼	Sec.	TWP	RGE		County
Ground water			SE	SE	29	05N	01E	B.M.	ADA

Method of Determination: The legal description in the permit is validated by PLS data and aerial photography.

Change in POD? ☐ Yes ☒ No

Amendment Required? ☐ Yes ☒ No

2. **LOCATION OF PLACE(S) 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	01E	29																3.4	3.4

Method of Determination: The legal description in the permit is validated by PLS data and aerial photography.

Change in POU? ☐ Yes ☒ No Amendment Required? ☐ Yes ☒ No

3.

☐ Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable. The pipe size is unknown. The domestic system includes 2 pressure tanks.

☒ 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
Unknown.	Franklin Sand Fighter	5.0		submersible	

*Code to correspond with No. on map and aerial photo

The same well and pump serves both uses: domestic (including some dust suppression in one coral) and irrigation.

D. **FLOW MEASUREMENTS**

1. Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date

2. Measurements: In-office field exam. No measurements taken

E. **FLOW CALCULATIONS**

☒ Additional Computation Sheets Attached

Small irrigation use standard = 0.03 cfs/ac

Permit allowed = 0.14 cfs

License recommended for 0.09 cfs = 0.03 cfs/ac x 3.0 ac

F. **VOLUME CALCULATIONS**

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 3.4 \times 4.5 = 15.3 \text{ af}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.11 \times 260 \times 1.9835 = 56.7 \text{ af}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 15.3 \text{ af}$$

Volume Calculations for Other Uses: _____

G. **PURPOSE OF USE**

Irrigation ☒ Yes ☐ No # Stock none Domestic # of Homes _____

Other: < >

Change in Purpose of Use? ☐ Yes ☒ No

Method of Determination: Information provided by the permit holder is consistent with water right permit.

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

H. NARRATIVE/REMARKS/COMMENTS

Permit 95-13358 authorized a diversion from ground water of 0.14 cfs for irrigation of 4.5 acres. Based on the small permitted diversion rate, this permit qualifies for an in-office field exam.

Historical imagery shows an unrecorded domestic water right use was established. Taxlot information states that a house may have been constructed in 1993. Google Earth aerial photography from 1998 shows that domestic irrigation had been established around the home.

12 rain-bird sprinklers provide dust suppression for the corral due south of the barn. That use would have been covered under the umbrella of external domestic use but the permit holders have selected licensing option 2 from my letter dated 2/4/2016. That option will define all of the irrigation use authorized by this water right.

The legal description of the POU was used to locate the property. Available Ada County taxlot information shows that H. James Holmes and Marcia L Holmes are the owners of the property. A map identifying the POU was submitted with the application and the shape outlined on that map matches the entire 4.5 acre taxlot boundary. The irrigation POU is smaller. The property is also known as Lot 4, Block 1 of Stillwell Estates #1.

I created the POU shape based on aerial photography, taxlot boundaries and information provided by the permit holder. The permit holder confirmed that the shape was accurate.

I created the POD shape based on information provided by the permit holder. The well is not located where the permit layer has it. Instead the well is located amidst landscaping in the back yard.

The permit authorized the standard rate per acres for irrigation use of less than 5 acres ($0.03 \text{ cfs/ac} \times 4.5 \text{ ac} = 0.135 \text{ cfs}$). I am recommending a licensed rate of 0.11 cfs (which maintains the 0.03 cfs/ac)
I am recommending 15.3 AF as the license volume.

The permit was issued for ground water use from the restricted ground water area in Basin 63. The water bearing zone appears to be at greater depth than 200 ft.

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	3/1-11/15	0.11 cfs	15.3 af
	<u>Totals</u>	0.11 cfs	15.3 af

2. Recommended Amendments

☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None

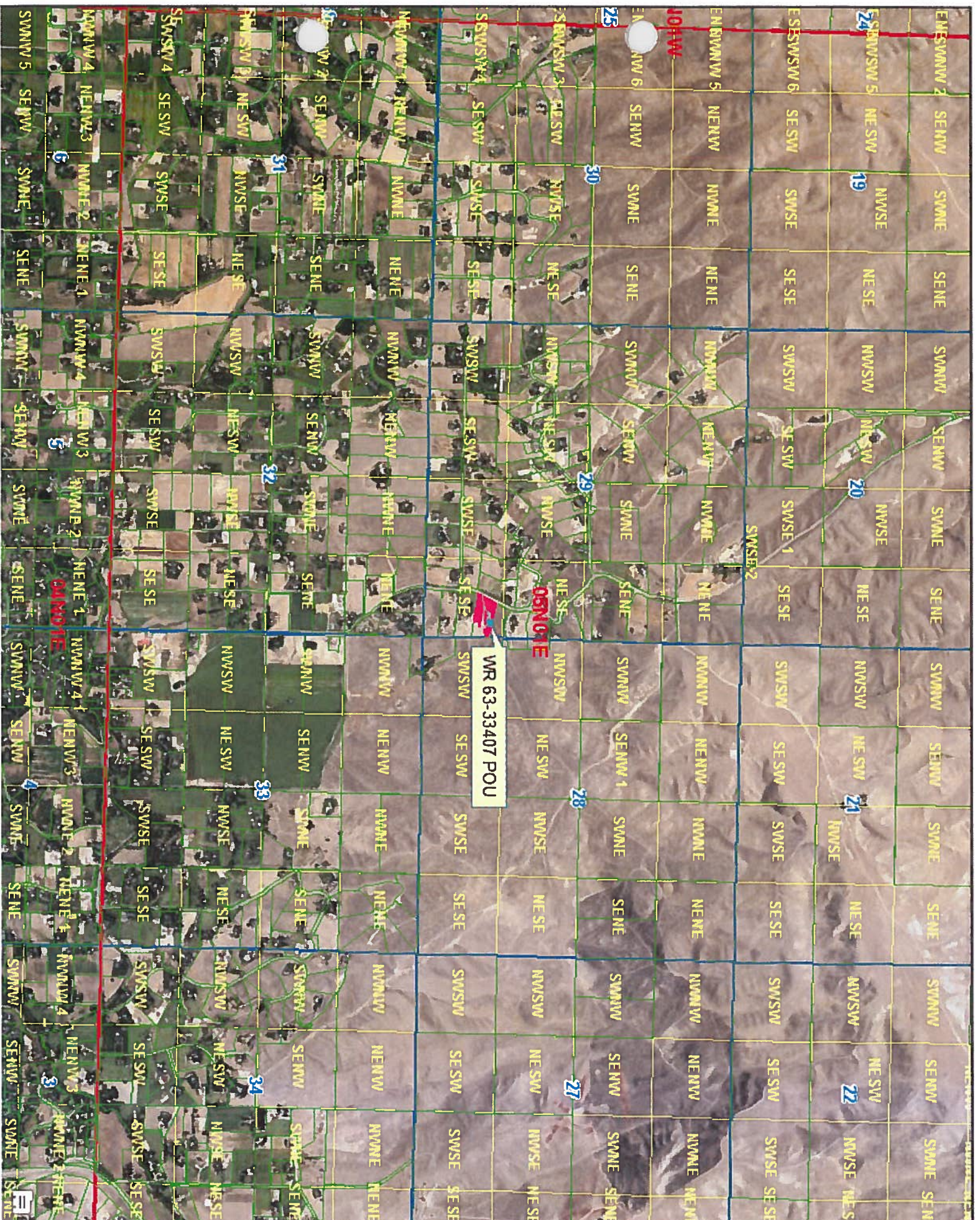
☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

Other: < >

I. AUTHENTICATION

Field Examiner's Name Michele Edl Date February 17, 2016

Reviewer _____ Date _____



THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

Water Right No.: 63-33407
 Reviewer: Michele Edl
 Date of Review: 2/17/2016

P/D No.:	Senerio 1	Senerio 2	Senerio 3
PUMP HORSEPOWER	5	5	5
BOOSTER HORSEPOWER	0	0	0
PUMPING LEVEL	190.0	190.0	190.0
DISCHARGE PRESSURE	40	50	60
RATE OF FLOW (cfs)	0.11	0.10	0.09 0.10

The above calculates the formula =
$$Q = \frac{8.8 * (\text{Efficiency}) * \text{hp}}{\text{depth to water} + 2.31 * (\text{psi}) + \text{friction}}$$

Assumptions: % 70 efficiency
 No Friction

Examiners Notes:

Horsepower was given by the applicant. Depth to water taken from the well log. (180 ft static water level with a 10 ft drawdown.) Discharge pressure ranges from 40-60 psi to account for expected system in use.

Edl, Michele

From: Edl, Michele
Sent: Thursday, February 04, 2016 8:53 AM
To: 'marcialholmes@gmail.com'
Subject: permit 63-33407
Attachments: DOC.pdf

Marcia and James Holmes,
I have attached an early-bird copy of a letter which will be mailed from IDWR's State Office this morning.

Michele Edl
287-4946

*2/9/16 Marcia Holmes responded by phone
they want option 2)*



State of Idaho

DEPARTMENT OF WATER RESOURCES

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GARY SPACKMAN
Director

C.L. "BUTCH" OTTER
Governor

February 4, 2016

H JAMES HOLMES
MARCIA L HOLMES
4800 N WILLOW CR RD
EAGLE ID 83616

RE: Water Right Permit No. 63-33407

Dear Marcia and James Holmes:

Water Right Permit 63-33407 was issued on February 3, 2011 to Ronald K. Paul and T. Katie Paul, the previous owners of your property. The permit authorized the establishment of an irrigation use on 4.5 acres of a 4.9-acre lot. Because it was for irrigation of less than five acres, Permit 63-33407 qualified for in-office review and potential licensing. I was assigned to review the water right file and if possible to complete the processing of the right.

I understand that Permit 63-33407 covers most but not all of the water uses that you have developed. The domestic use and the dust suppression use are not well covered by a permit which was for irrigation use only. As I promised in our phone conversation of last Friday, January 29, 2016, I took your water right permit to a licensing group meeting for discussion yesterday morning. As a consequence of that meeting I learned that you have three different options from which to select. I am writing this letter to introduce you to and to briefly describe those options.

The three options are:

- 1) Change the nature-of-use of the undeveloped irrigation use to include all of the developed uses. Permit 63-33407 authorized irrigation of 4.5 acres, but I found irrigation of approximately 3.4 acres has actually been developed. So there is an authorized, but undeveloped portion of the permitted water use available for conversion to other uses. This option requires that the permit be amended before a license can issued. The amendment would change the nature-of-use of a part of the irrigation use to either industrial or commercial use. (We don't have a dust suppression use.) Choosing this option will mean that: the license will define the domestic use for in-house use only; the irrigation use will be defined

as appurtenant to 3.4 acres; and the dust suppression will be defined as a separate use.

- 2) Consider the dust suppression as a use which fits within the established but unrecorded, domestic use. Your home and the water uses from your well existed before the application for permit 63-33407, was submitted. Idaho statute allows the development of a domestic use without the necessity of obtaining a water right for that use. The definition of a domestic use is pretty broad and can be utilized to cover the dust suppression. Idaho Code 42-111(a) defines domestic use as:

The use of water for homes, organization camps, public campgrounds, livestock and for any other purpose in connection therewith, including irrigation of up to one-half (1/2) acre of land, if the total use is not in excess of thirteen thousand (13,000) gallons per day, ..

Choosing this option will mean that only the irrigation use will be defined by a water right license issued for permit 63-33407. This option will leave the domestic use undefined and acting as an umbrella to cover the dust suppression use.

- 3) File a late claim in the SRBA and request deferred processing of this permit until that claim is adjudicated. Before you came to Idaho, the state was going through a very large adjudication of water rights. The Snake River Basin Adjudication (SRBA) was a judicial determination of the water rights which were tributary to the Snake River. Your property and water uses are in Basin 63 and the water rights and water uses which were developed in Basin 63 were included in the SRBA. Only small domestic uses developed from ground water and stockwater uses developed from springs were given the option to defer filing of a SRBA claim. I found no record of a SRBA claim for domestic use associated with this property. Choosing this option will mean that the domestic use will be defined by the court and likely have an earlier priority date than would a license based on this permit. However, you will need to file a late claim with IDWRs adjudication group, pay the late filing fee and allow them the time to recommend and process the claim before I could complete the licensing process.

Please consider these options and respond back to me as soon as possible. If you have any questions, don't hesitate to call me at 208-287-4946, or email me at michele.edl@idwr.idaho.gov.

Respectfully,



Michele Edl (E.I.T.)
Senior Water Resources Agent

7/1998

4800 Willow Creek Rd

Image U.S. Geological Survey

WR#63-33407
historical imagery

Google earth

Imagery Date: 7/1/1998

1992

43°44'17.67" N 116°21'20.45" W elev 2737 ft

Eye alt 3313 ft