

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

A. GENERAL INFORMATION

Permit No: 63-32976

Exam Date: 4/25/2014

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: Kenneth & Lorana Acree
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: CO98476

4. **SOURCE** **TRIBUTARY**

Groundwater

Method of Determination: Applicant submitted an aerial photo map that outlined POD & POU.

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
Wilder Irrigation District	Boise River	Irrigation	Decreed
63-26265	Ground water	Domestic	Decreed

Comments: Irrigation Company shares no longer in use since road changes blocked off access. 63-26265 is a domestic right for the property that comes from a well.

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

Water Right No.	Source	Purpose of Use	Basis

Comments: There are no other water rights that share POD.

C. DIVERSION AND DELIVERY SYSTEM1. **LOCATION OF POINT(S) OF DIVERSION:**

Source	Govt. Lot	¼	¼	¼	Sec.	Twp.	Rge.		County
Springs		NW	NW	SE	3	03N	05W		Canyon

Method of Determination: Legal Description in permit validated by PLS data and mapping.

Change in POD? ☐ Yes ☒ NoAmendment Required? ☐ Yes ☒ No

2. **PLACE OF USE:** Use: Domestic & 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	
03N	05W	3														1.4			1.4

Method of Determination: Map of property submitted by land owner identifies POU clearly. PLSS data through ArcMap match.

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

☐ Delivery System Diagram Attached (required). Indicate all major components and distances between components.

Indicate weir size/pipe as applicable.

☒ 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
Spring	Unk	1	Unk	Unk	Unk

*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: In-office field exam so flow measurements not applicable.

E. FLOW CALCULATIONS

☒ Additional Computation Sheets Attached

Measured Method:

Administrator memo #17 authorizes a irrigation flow rate of 0.03 cfs per acre. See narrative where I recommend changing rate on the permit condition.

>>> 1.4 acres * 0.03 cfs/acre = 0.042 cfs

See the theoretical calculation sheet with a number of scenarios providing a calculated average flow rate of 0.05 cfs.

Measurement = 0.05 cfs

Permit allowed = 0.04 cfs

License recommend for 0.04 cfs.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 1.4 \times 4.5 = 6.3$

$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.04 \times 260 \times 1.9835 = 20.6$

$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 6.3$

2. Volume Calculations for Other Uses: None.

G. PURPOSE OF USE

Irrigation ☒ Yes ☐ No # Stock 0 Domestic # of Homes 0

Other: < >

Change in Purpose of Use? ☐ Yes ☒ No

Method of Determination: Information in the water right file is consistent with aerial photography of the property.

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

H. NARRATIVE/REMARKS/COMMENTS

Permit 63-32976 authorized the use of 0.04 cfs from a spring for irrigation water purposes. Based on the information provided in the water right file, this qualifies for an in-office field exam.

In the overlap review, I found a domestic water right 63-26265 in the name of Jennifer Baker with a priority date of 7/1/1968. A condition on the license gave the Parcel number and address that matches the Acree property. In a telephone discussion with Kenneth Acree on April 25, 2014, Mr. Acree had no knowledge of a Jennifer Baker. I recommended that he complete a Change in Ownership form and return it to IDWR to place the water right in his name.

Because this domestic water right exists on the property, it authorizes the user to irrigate up to half an acre of land. Mr. Acree stated that water diverted through the well is only enough for in home use and that all irrigated land uses spring water. Because the ability to irrigated half an acre exists under domestic use, I recommend adding a combined use limit condition at licensing.

There are large irrigation company water rights that overlap the land. Mr. Acree confirmed that he used to own shares with the Wilder Irrigation District, but that these were no longer in use due to road construction cut access from the irrigation waters.

On the reverse side of the Statement of Completion Mr. Acree described a pond that has been constructed for flood irrigation. In our phone conversation mentioned above, he described the dimensions of the small pond as being 17 ft long, 15 ft wide, and 2 feet deep. These dimensions contain a maximum volume of 510 ft³; or 0.012 af of water. The permitted rate of 0.04 cfs will produce a volume of 0.079 af in a day. Under the 24 hour rule, this size of storage is acceptable without obtaining a storage water right.

Permit 63-32976 grants a 0.04 cfs Rate of Diversion for a POU of 1.5 acres. The permit condition #6 states that "This water right when combined with all other rights shall provide no more than 0.02 cfs per acre nor more than 4.5 afa per acre at the field headgate for irrigation of the lands above." If we use the 0.02 cfs per acre condition, the maximum allowable Rate of Diversion is 0.03 cfs. Administrators Memorandum #17 authorizes an irrigation flow rate of 0.03 cfs per acre up to 5 acres. When we use this standard, we may grant a Rate of Diversion of 0.05 cfs for 1.5 acres. Because this was permitted for 0.04 cfs and the Place of Use is less than 5 acres, I believe condition #6 of the permit to be in error. I recommend changing the condition at licensing to state "This water right when combined with all other rights shall provide no more than 0.03 cfs per acre nor more than 4.5 afa per acre at the field headgate for irrigation of the lands above."

No recommended volume amounts are given when diversion is from a spring.

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	03/01-11/15	0.04 cfs	
	<u>Totals</u>	0.04 cfs	

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

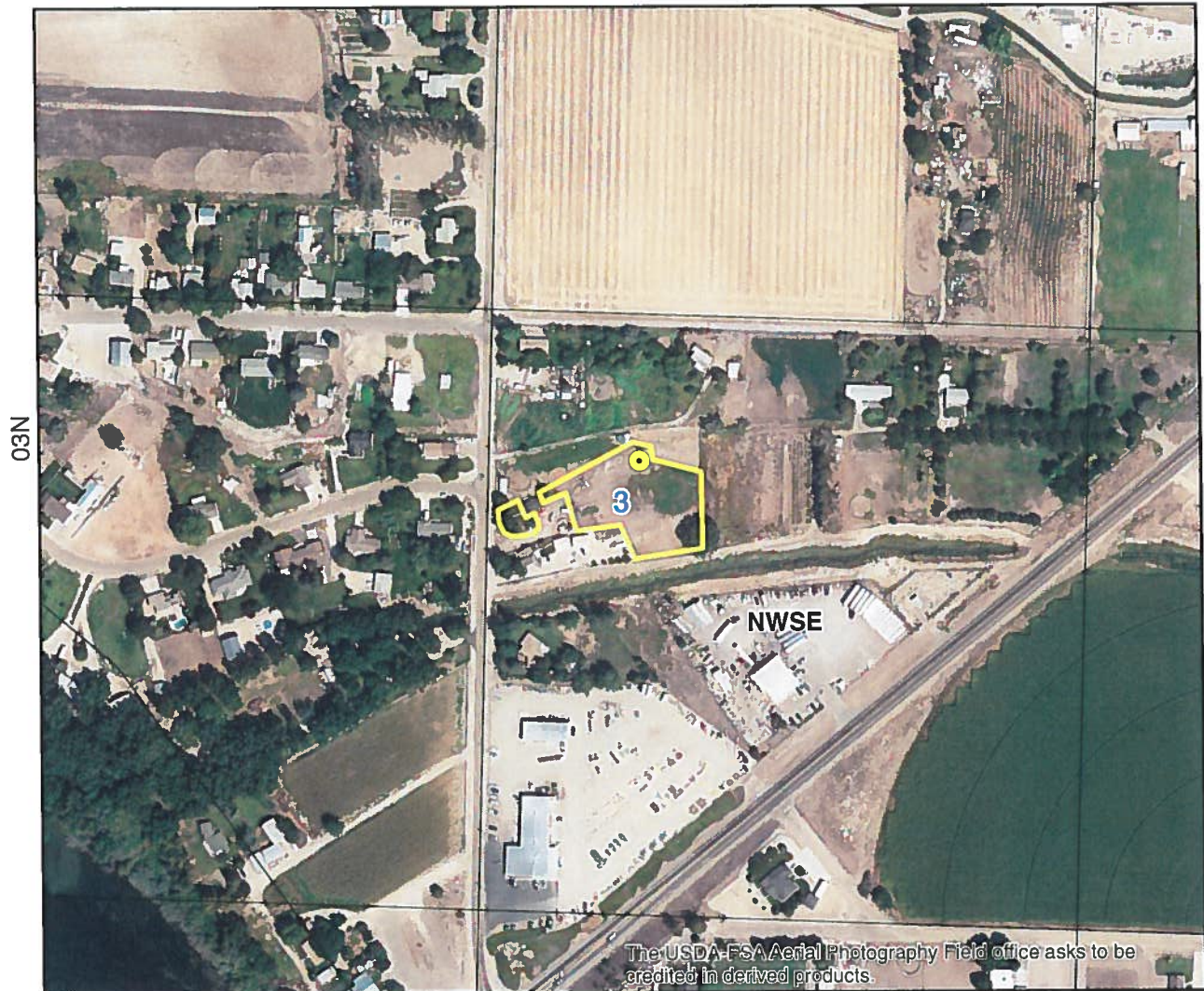
Field Examiner's Name Patricia Wiley Date 04/25/2014

Reviewer Daniel A. Mohr Date 5/5/14

State of Idaho
Department of Water Resources
Field Exam Map
63-32976

This map depicts the IRRIGATION place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.

05W



-  Point of Diversion
-  Place Of Use Boundary
-  Townships
-  PLS Sections
-  Quarter Quarters

0 0.05 0.1 0.2 Miles



THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

Water Right No.: 63-32976
 Reviewer: Patrick Kelly
 Date of Review: 4/25/2014

P/D No.:	Senerio 1	Senerio 2	Senerio 3
PUMP HORSEPOWER	1	1	1
BOOSTER HORSEPOWER	0	0	0
PUMPING LEVEL	10	10	10
DISCHARGE PRESSURE	45	45	45
RATE OF FLOW (cfs)	0.05	0.05	0.05 0.05

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:

Pump Horsepower was collected from beneficial use report. Topographic maps were referenced to estimate lift. Ground is relatively flat and could be less than the calculated 10 feet. Used an average of 45 psi for common rainbird systems. Average rate of flow is 0.05 cfs. This represents that the permitted 0.04cfs is capable of being supplied to the property.

Process	Basin Sequence	Draft	Owner	Source	POD/POU	NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE	Total Acres
Water Right	2-10416	N	GEM IRRIGATION DISTRICT	SNAKE RIVER	POU										X	X	X					0
Water Right	2-2014	N	GEM IRRIGATION DISTRICT	SNAKE RIVER	POU											40.0						40
Water Right	2-4031	N	HOMEDALE JOINT SCHOOL DISTRICT #370	SNAKE RIVER	POD											X						0
Water Right	2-4031	N	HOMEDALE JOINT SCHOOL DISTRICT #370	SNAKE RIVER	POU											11.0						11
Water Right	2-64	N	GEM IRRIGATION DISTRICT	SNAKE RIVER	POU										X	X	X					0
Water Right	2-65	N	GEM IRRIGATION DISTRICT	SNAKE RIVER	POU										X	X	X					0
Water Right	2-7354	N	LAUREANO, ALISON	SNAKE RIVER	POD											X						0
Water Right	2-7354	N	LAUREANO, ALISON	SNAKE RIVER	POU											4.0						4
Water Right	2-7365	N	DE GONIA, DEAN H; DE GONIA,	SNAKE RIVER	POD															X		0
Water Right	2-7365	N	DE GONIA, DEAN H; DE GONIA,	SNAKE RIVER	POU															X		0
Water Right	57-10393	N	CITY OF HOMEDALE	GROUND WATER	POU											X						0
Water Right	57-10854	N	GEM IRRIGATION DISTRICT	SUCCOR CREEK	POU											30.0						30
Water Right	57-10901	N	GEM IRRIGATION DISTRICT	JUMP CREEK	POU											30.0						30
Water Right	57-10912	N	GEM IRRIGATION DISTRICT	SUCCOR CREEK	POU											30.0						30
Water Right	57-10913	N	GEM IRRIGATION DISTRICT	SAGE CREEK	POU											30.0						30
Water Permit	57-11752	N	CITY OF HOMEDALE	GROUND WATER	POU										X	X	X					0
Water Right	57-11752	Y	CITY OF HOMEDALE	GROUND WATER	POU											X						0
Water Right	57-11754	N	HOMEDALE JOINT SCHOOL DISTRICT #370	GROUND WATER	POD											X						0
Water Right	57-11754	N	HOMEDALE JOINT SCHOOL DISTRICT #370	GROUND WATER	POU											4.0						4
Water Right	57-2118	N	GEM IRRIGATION DISTRICT	JUMP CREEK	POU											30.0						30
Water Right	57-2177	N	GEM IRRIGATION DISTRICT	JUMP CREEK	POU											30.0						30
Water Right	57-4104	N	GEM IRRIGATION DISTRICT	SAGE CREEK	POU											30.0						30
Water Right	57-7027	N	CITY OF HOMEDALE	GROUND WATER	POU											X						0
Water Right	57-7048	N	CITY OF HOMEDALE	GROUND WATER	POD										X							0
Water Right	57-7048	N	CITY OF HOMEDALE	GROUND WATER	POU										2.0							2
Water Right	57-7656	N	CITY OF HOMEDALE	GROUND WATER	POD										X							0
Water Right	57-7656	N	CITY OF HOMEDALE	GROUND WATER	POU											X						0
Water Right	63-10664	N	PITTS, KENNETH C; PITTS, ROSA A	SPRINGS	POD												X					0
Water Right	63-10664	N	PITTS, KENNETH C; PITTS, ROSA A	SPRINGS	POU												1.0					1
Water Right	63-11113	N	PAXTON, ROBERT L	SPRING	POD													X				0
Water Right	63-11113	N	PAXTON, ROBERT L	SPRING	POU													1.0	8.0			0
Water Right	63-11222	N	TAMURA BROS	GROUND WATER	POD				X													0
Water Right	63-11222	N	TAMURA BROS	GROUND WATER	POU				X													0
Water Permit	63-11944	N	TUCKER, BONITA; TUCKER, SIDNEY E	GROUND WATER	POD															X		0
Water Permit	63-11944	N	TUCKER, BONITA; TUCKER, SIDNEY E	GROUND WATER	POU															2.0		2
Water Right	63-136	N	BOISE PROJECT BOARD OF	BOISE RIVER	POU	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	0
Water Right	63-137B	N	BOISE PROJECT BOARD OF	BOISE RIVER	POU	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	0
Water Right	63-15051	N	TUTTLE, GAIL L; TUTTLE, HESTER L	GROUND WATER	POD															X		0
Water Right	63-15051	N	TUTTLE, GAIL L; TUTTLE, HESTER L	GROUND WATER	POU															X		0
Water Right	63-15313	N	LARZELIER, DOUGLAS; LARZELIER, MARY JO	GROUND WATER	POD																X	0
Water Right	63-15313	N	LARZELIER, DOUGLAS; LARZELIER, MARY JO	GROUND WATER	POU																X	0
Water Right	63-200A	N	BOISE PROJECT BOARD OF	BOISE RIVER	POU	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	0

PROPERTY ON EAST BORDER.

[illegible]

