

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

A. GENERAL INFORMATION

Permit No: 63-34392

Exam Date: 8/23/2027 ⁴

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

2. Current Owner: Name: Richard and Evette Feigel
Owner of Record Correct? Y X N
Address of Record Correct? Y X N
If No: Address 8724 N Bullwinkle Ln
Eagle, ID 83616

3. Fees have been paid: Y X N Receipt No: Not required for 0.04 cfs (Idaho code 42-221K).

4. SOURCE

Ground Water

Method of Determination: Proof of Beneficial Use

Change in Source: Y X N**B. OVERLAP REVIEW**

1. Other water rights with the same place of use: NONE

Water Right No.	Source	Purpose of Use	Basis
63-11413	Groundwater	Municipal	License
63-12448	Groundwater	Municipal	License

Comments: Both overlapping water rights 63-11413 and 63-1244 are groundwater rights with a municipal use. There are multiple identical water rights to 63-12448 but no concerns regarding overlapping of these water rights considering they have differing beneficial uses.

2. Other water rights with the same point of diversion: X NONE

Water Right No.	Source	Purpose of Use	Basis
NA	NA	NA	NA

Comments: There are no active rights sharing the permit point of diversion.

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

Source	Govt. Lot	¼	¼	¼	Sec.	Twp.	Rge.		County
Groundwater			SE	NE	16	05N	01W	B.M.	ADA
								B.M.	
								B.M.	

Method of Determination: GIS and Ada County maps

Change in POD? Y X N Amendment Required? Y X N

2. **PLACE OF USE:** Use: Domestic

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	01W	16													X				
		Lot #																	
Total Acres =																			

Method of Determination: GIS and Ada County Map

Change in POU? ____Y __X__N Amendment Required? ____Y __X__N

3. X 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).X 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
D0086963	Goulds 35GS	7.5	Unknown	35GS	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
N/A	N/A	N/A	N/A	N/A	N/A	N/A

2. Measurements: No measurement was taken. Review is consistent with IDAPA 37.03.02.035.01(r)

E. FLOW CALCULATIONS Additional Computation Sheets Attached

Measured Method:

Theoretical calculation using actual horsepower

$$Q = (8.8)(7.5\text{hp})(0.78) / (546') + (60 \times 2.31) = 51.5/684.6 = 0.08 \text{ cfs}$$

Measurement = no measurement**Permit allowed = 0.25 cfs****Permit irrigation: 0.2 cfs****BU standard irrigation: 0.2 cfs x 0.19 acre = 0.04cfs (AP Memo 17)****Permit domestic: 0.04 cfs****BU standard domestic: 0.04 cfs for one home (AP Memo 22)****License recommend for 0.04 cfs.**

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: N/A. Developed irrigated area is included in domestic use.

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = \underline{\hspace{2cm}}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = \underline{\hspace{2cm}}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = \underline{\hspace{2cm}}$$

2. Volume Calculations for Other Uses:

Domestic volume 1.2 AFA per application processing Memo 22.

G. PURPOSE OF USE

Irrigation ☒ Y ☐ N # Stock ☐ NA Domestic # of Homes ☐ 1 ☐

Other:

Change in Purpose of Use? ☐ Y ☒ X ☐ N

Method of Determination: Proof of beneficial use, GIS, Ada County maps

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

H. NARRATIVE/REMARKS/COMMENTS

The permit for irrigation of 0.18 acre and single domestic household qualifies for an in-office examination for license. A statement of completion was submitted by the current owner of the property on July 5, 2024. This permit was obtained by Dahl Sheep LLC to irrigate 10 acres, supply 0.04 cfs to a single domestic household, and provide 0.01 cfs stock water before the parcel was sold. The current owner has developed a 0.19 acre lawn to irrigate and single domestic household which receives the standard 0.04 cfs with groundwater derived from a well with a Goulds 7.5hp 3 phase 230V pump set 546 feet below the well head. Using pump information and a hand-drawn diagram provided by the owner as well as ArcMap, I can conclude that the owner irrigates 0.18 acre and one domestic household. Comparing the developed beneficial used to AP memos 17 and 22 to their water delivery system and my theoretical calculations, I recommend this permit be reduced to 0.04 cfs domestic when licensed. This will allow the water user to supply water to their domestic household as well as irrigate up to one half acre pursuant to Idaho code 42-111. Using AP memos 17 and 22, I calculated a theoretical flow for both irrigation and domestic uses for this property and pump specifications proves that this system can provide the 0.04 cfs to the 0.18 acre and domestic household with ease.

Have conditions of permit approval been met? ☒ X Yes ☐ No

I. RECOMMENDATIONS**1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
DOMESTIC	01/01-12/31	0.04 CFS	1.2 AFA
	<u>Totals:</u>	0.04 CFS	1.2 AFA

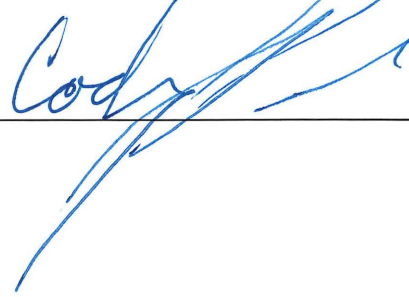
2. Recommended Amendments

___ 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

J. AUTHENTICATION

Field Examiner's Name Kate Englund  Date 8/30/2024

Reviewer  Date 10-03-2024

X=Box for SPRINKLERS
white dots = sprinklers



Figure 1 ArcMap imagery representing confirmed irrigated area, single domestic household, and well location. White spots represent sprinklers.

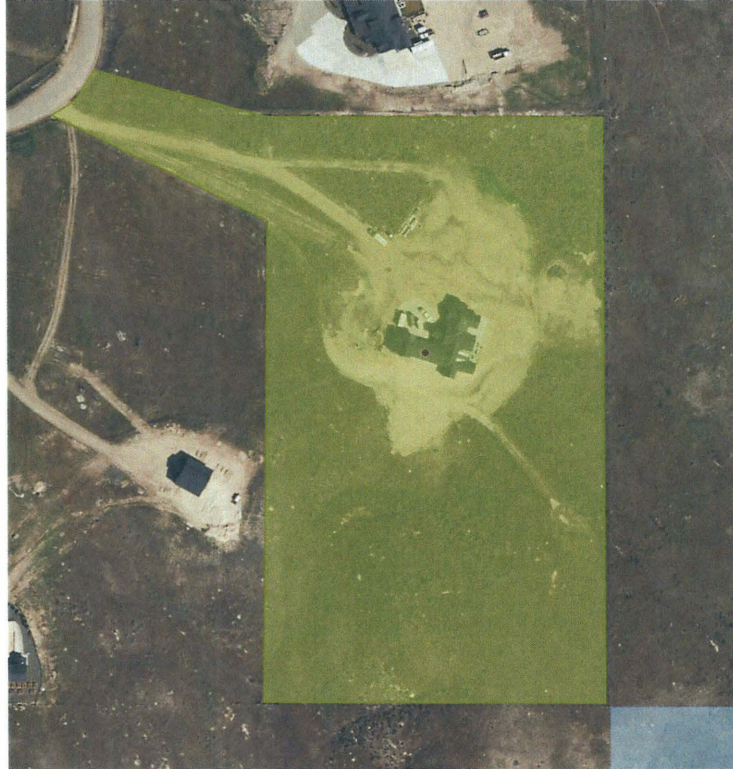


Figure 2 Ada County GIS imagery highlighting parcel in green in which permit holder irrigates 0.19 acre (not pictured) and supplies 0.04 cfs to single domestic household.



Figure 3 Photo of well head (point of diversion).



Figure 4 Control panel, photo provided by water permit owner.

Englund, Kate

From: Englund, Kate
Sent: Wednesday, September 4, 2024 1:10 PM
To: Evette
Subject: In-Office Exam and Statute
Attachments: Beneficial Use- In-House EXAM form.pdf

Hey Rick and Evette,

Attached is a copy of the in-office licensing exam along with a link to the statute I referenced on the phone which will explain our reasoning to combining domestic and irrigation uses. This will allow you to obtain a license to supply water to your household and irrigate up to half an acre without paying any processing fees. I should disclaim that this exam is still a draft and will be reviewed by my supervisor soon, though we both think we have reached a final decision so long it is well with you. Once we get you licensed, you will receive a final copy in the mail!

Thank you for your amazing communication throughout this process!

Kate Englund

[Section 42-111 – Idaho State Legislature](#)

Englund, Kate

From: Englund, Kate
Sent: Friday, August 23, 2024 9:22 AM
To: Evette
Subject: RE: Request For Diagram of Irrigation Water Delivery

Also, do you know the pump depth?

Thanks!

Kate

From: Evette <evette412@comcast.net>
Sent: Thursday, August 22, 2024 4:32 PM
To: Englund, Kate <Kate.Englund@idwr.idaho.gov>
Subject: Re: Request For Diagram of Irrigation Water Delivery

CAUTION: This email originated outside the State of Idaho network. Verify links and attachments BEFORE you click or open, even if you recognize and/or trust the sender. Contact your agency service desk with any concerns.

Hello Kate,

We spoke by phone and we just got home to Idaho after almost a month, so I'm getting this information to you. I printed off a copy of the overhead of our house you gave me and marked where everything is and I also included some pictures of these things on the map. Please feel free to reach out if you have any other questions I hope this is what you need.

Sincerely,
Rick & Evette Feigel





Well

From: "Englund, Kate" <Kate.Englund@idwr.idaho.gov>
Date: August 15, 2024 at 2:57:15 PM MDT
To: evette412@comcast.net
Subject: Request For Diagram of Irrigation Water Delivery

Dear Richard or Evette,

The Department of Water Resources has received your statement of completion for permit 63-34392. I am currently processing an in-house examination for licensing, which will expedite the licensing process by using information submitted by the permit holder. Before completing this

examination, I will need to review a diagram of your water delivery system. I understand that you are using water to irrigate 1/8 acre, as well as provide water to your domestic household. I have attached a satellite image of the irrigated land on your property. You can either print that off, hand draw a diagram, and scan a copy to me or draw a diagram electronically.

I appreciate your help!

Kate E.
Water Resources Agent