

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 67-15330

Exam Date: 04/18/2025

1. Current Owner:

JUSTIN E TAILLON OR MAKAYLA A JOHNSON PO BOX 824 PAYETTE ID 83661-0824

2. Accompanied by: Justin Taillon

Phone No: (530) 945-2830

Address: 12290 US-95, Payette, ID (home physical address)

Relationship to permit Holder: Permit Holder

3. **SOURCE:**

GROUND WATER

Method of Determination: GARMIN GPS, GIS Imagery**B. OVERLAP REVIEW**1. Other water rights with the same place of use: YES Overlap

Water Right No.	Source	Purpose of Use	Basis
67-13895, 13969	Groundwater	Domestic	Decreed 2000
67-2923C, 2923E	Fall Creek	Irrigation Service Area/ Lake Reservoir Co.	Decreed 2000

Comments: Two domestic rights have place of use (POU) shapefiles overlapping are appurtenant to neighboring parcels with different physical addresses than parcel of the permitted POU. Other overlapping irrigation rights are for the service area of Lake Reservoir Co. No comment was received during the advertisement period.

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

Water Right No.	Source	Purpose of Use	Basis
NONE	NA	NA	NA

Comments: No rights share the permitted points of diversion (POD).

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

GROUND WATER L2 (SE¼ NE¼), Sec. 2, Twp 09N, Rge 05W, B.M. PAYETTE County

GPS COORDS: N 44.14851° W 116.89391° (IRRIGATION WELL)

GROUND WATER L2 (SE¼ NE¼), Sec. 2, Twp 09N, Rge 05W, B.M. PAYETTE County

GPS COORDS: N 44.14837° W116.89471° (DOMESTIC WELL)Method of Determination: GARMIN GPS, GIS IMAGERY, AND PAYETTE COUNTY PARCEL MAP**PLACE OF USE: IRRIGATION (WR 67-15330)**

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
09N	05W	2				5.9 L2													5.9

Total Acres: 5.9

PLACE OF USE: DOMESTIC (WR 67-15525)

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
09N	05W	2				X L2													

Method of Determination: GARMIN GPS, GIS IMAGERY, AND PAYETTE COUNTY PARCEL MAP

3.

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

X Indicate weir size/pipe as applicable.

Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.

X Aerial Photo Attached (required for irrigation of 10+ acres).X Photo of Diversion and System Attached

4.

Well Tag ID #	Motor Make	Hp	Motor Model #	Pump Make	Pump Model / Controller
D0083271 (67-15330)	Franklin Electric	3.0	5870205403C	Unknown	Unknown, SD30 (VFD)
D0082750 (65-15525)	Franklin Electric	¾	2801074910	Unknown	Unknown, Unknown

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	STATE ID	Size	Calib. Date
PANAMETRIC	CLOSED CONDUIT FLOWMETER	GE	PT878	#305120		04/02/2025

2. Measurements: Clamp on measurement using 402 transducer on 3.0 in OD aluminum line.

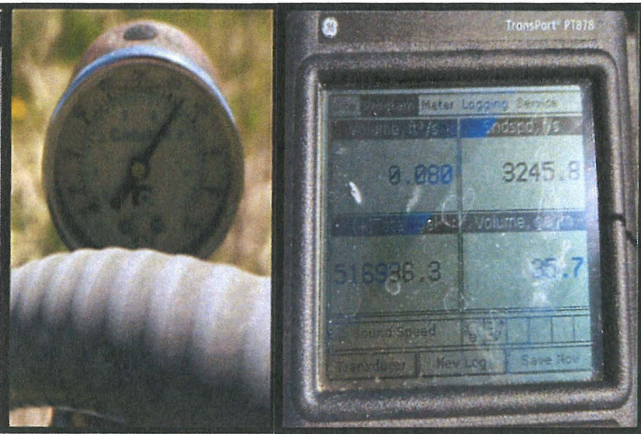
E. FLOW CALCULATIONS

Additional Computation Sheets Attached

Measured Method: 10 x 1-min measurements logged with Panametric on hand lines adding lengths of line until reaching the maximum diversion rate possible, then tested running open discharge.

Table 1. Measurement Log

Time 25/04/18	Velocity ft / sec	Vol ft^3 / Sec	FWD Totalizer (GAL)
13:13:02 PM	2.98	0.01	516,895.22
13:14:02 PM	2.98	0.01	516,895.73
13:15:02 PM	2.98	0.08	516,924.55
13:16:03 PM	2.98	0.063	516,957.14
13:17:03 PM	4.37	0.063	516,985.52
13:18:03 PM	3.87	0.057	517,011.85
13:19:02 PM	3.98	0.057	517,037.25
13:20:02 PM	3.98	0.057	517,062.92
13:21:02 PM	3.99	0.058	517,088.91
13:22:02 PM	4	0.058	517,114.20
13:23:03 PM	4.01	0.058	517,140.74



Theoretical Calculation:

Domestic pump (set depth 33'(TD), ¾ -Hp, @45-60psi, 53 psi median)

$$Q = (3/4 \text{ Hp})(8.8)(0.90 \text{ efficiency})/(33 \text{ ft lift}) + (2.31)(53 \text{ psi}) = 0.04\text{cfs}$$

Theoretical Rate= 0.04cfs

Domestic Recommendation= 0.04cfs

Comments/Recommendation: Handlines were connected from the wellhead to the southern extent of the POU, bisecting the field. The measurement log recorded a maximum averaged rate of 0.063cfs with a system pressure of 64 psi (left photo). However, the peak observed and photographed instantaneous rate measured on the main line was 0.08cfs (right photo). I recommend that WR 67-15330 is issued with a maximum rate of 0.08cfs for the irrigation of a GIS measured 5.9 acres.

I recommend that WR 67-15525 is issued with a maximum rate of 0.04cfs for domestic use in one home, according to Administrative Memo #22.

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 5.9 \text{ acres} \times 4.5 \text{ AFA (annually)} = 26.6 \text{ AF annually}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.08\text{cfs} \times 260 \text{ days} \times 1.9835 = 41.3 \text{ AF}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 26.6 \text{ AF annually}$$

2. Volume Calculations for Other Uses: DOMESTIC

Comments/Recommendation: The standard annual volume for domestic use for one home with up to ½ acre of irrigation is 1.2 AF, per Administrative Memo #22. I Recommend that the domestic use license for WR 67-15525 is issued with an annual volume of 1.2 AF for domestic use, and the license for WR 67-15330 is issued with an annual volume of 26.6 AF for the irrigation of 5.9 acres, per the standard field headgate calculation above.

G. NARRATIVE/REMARKS/COMMENTS

On November 26, 2024, the Department received the Statement of Completion for permit 67-15330, stating in section 3 that the use was developed for 5 acres of irrigation. On April 18, 2025, a field examination was conducted with the permit holder Justin Taillon as an escort. The permit was issued for 7.3 acres of irrigation and used a place of use (POU) shapefile that includes areas within the parcel to the north of the POU owned by Judy Guthrie. Additionally, the parcel listed in Payette County tax parcel data as currently owned by the permit holders is only 6 acres total area. However, no comment was received during the advertising period and the use developed under the permit appears to include areas up to the north fence line which matches the northern boundary of the permitted POU. The permit holder described the systems for domestic, and irrigation uses as diverting from separate wells with separate delivery systems. Therefore, the license was split into parent right 67-15330 for the irrigation of a GIS measured 5.9 acres and right 67-15525 for domestic use in 1 home with up to ½ acre of irrigation for the landscaping and garden near the home. Both rights include areas developed within the neighboring parcel.

The irrigation system is delivered through a 3" steel mainline which splits has a riser for attaching 3" aluminum hand lines for delivery of water throughout the POU (see system diagram, Figure 1). During the field examination the permit holder connected enough hand lines to reach the southern fence line. The recommended rate for the license is based on observations of the peak live flowmeter readings with system operating and the log measurements taken at the hand lines.

The domestic system delivers water from the well head through a buried line of unknown size to the home and from there is distributed to a buried 3 zone sprinkler system with 1 zone of driplines and 2 zones of rotary sprinklers. The domestic well services enclosed areas surrounding the home with lawn, landscaped beds, garden beds, and frost free spigots used for stock watering.

I recommend that license be split and issued separately for the irrigation of 5.9 acres with a maximum rate of 0.08cfs (right 67-15330), and domestic use in 1 home with up to ½ acre of irrigation and maximum rate of 0.04cfs (right 67-15525). I recommend an annual volume of 26.6 AF for the irrigation of 5.9 acres. Per the field headgate standard calculation in section F of this report and an annual volume of 1.2 AF for domestic use in 1 home with up to ½ acre of irrigation, per Administrative Memo #22. Finally, I recommend that the license for irrigation is issued with conditions R65, 01M, 103 & 004, and the license for domestic use is issued with conditions X01, 187, 103 & 004. Conditions 046 & 26A should be removed per current guidance and condition 121 should be replaced with 103, per current guidance. WB5 should be removed at licensing as it was only added to the permit under the assumption that the uses to be developed were proposed to be delivered using 1 system. Condition 004 was added to both rights to recognize any possibility that the points of diversion and places of use permitted may not entirely be within the permit holder's property.

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

H. RECOMMENDATIONS

1. Recommended Amounts

<u>Beneficial Use</u>	<u>Period of Use</u>	<u>Rate of Diversion</u>	<u>Annual Volume</u>
IRRIGATION	03/01 to 11/15	0.08 CFS	26.6 AF
DOMESTIC	01/01 to 12/31	0.04 CFS	1.2 AF

Totals:

WR 67-15330 (IRRIGATION)
WR 67-15525 (DOMESTIC)

0.08 CFS
0.04 CFS

26.6 AF
1.2 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

I. AUTHENTICATION

Bob Howe - Water Resource Agent, Sr.

Field Examiner's Name BOB HOWE Date _____

Reviewer Cody PL Date 12-23-25



Figure 1- NAIP 2023 imagery- IRRIGATION SYSTEM DIAGRAM. The permit holder had a rack of more than 2 dozen 3"aluminium hand lines which are used in various configurations to irrigate through out the POU. A separate well, pump, and system provide water for domestic uses including in home, less than ½ acre of irrigaton for the lawn, landscape, and garden beds as well as stock watering from frost free hydrants located within the domestic enclosure.



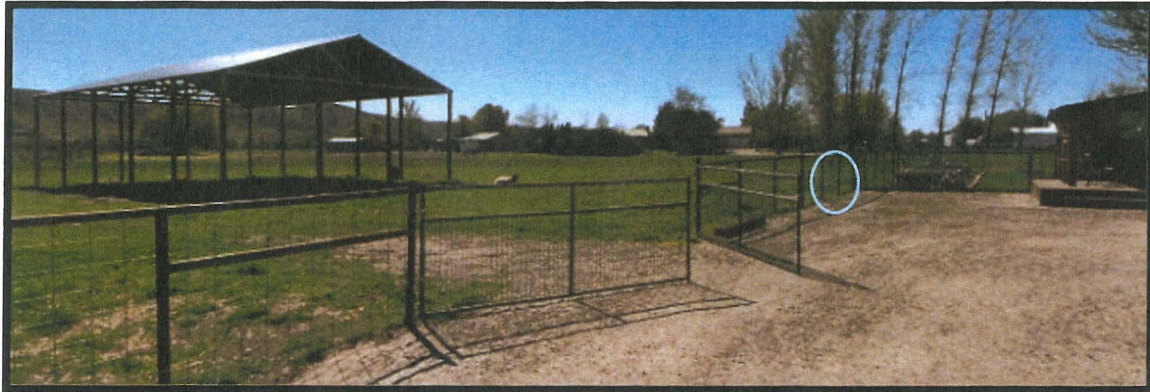
Photo 1- Front Lawn and landscaped beds within the domestic enclosure.



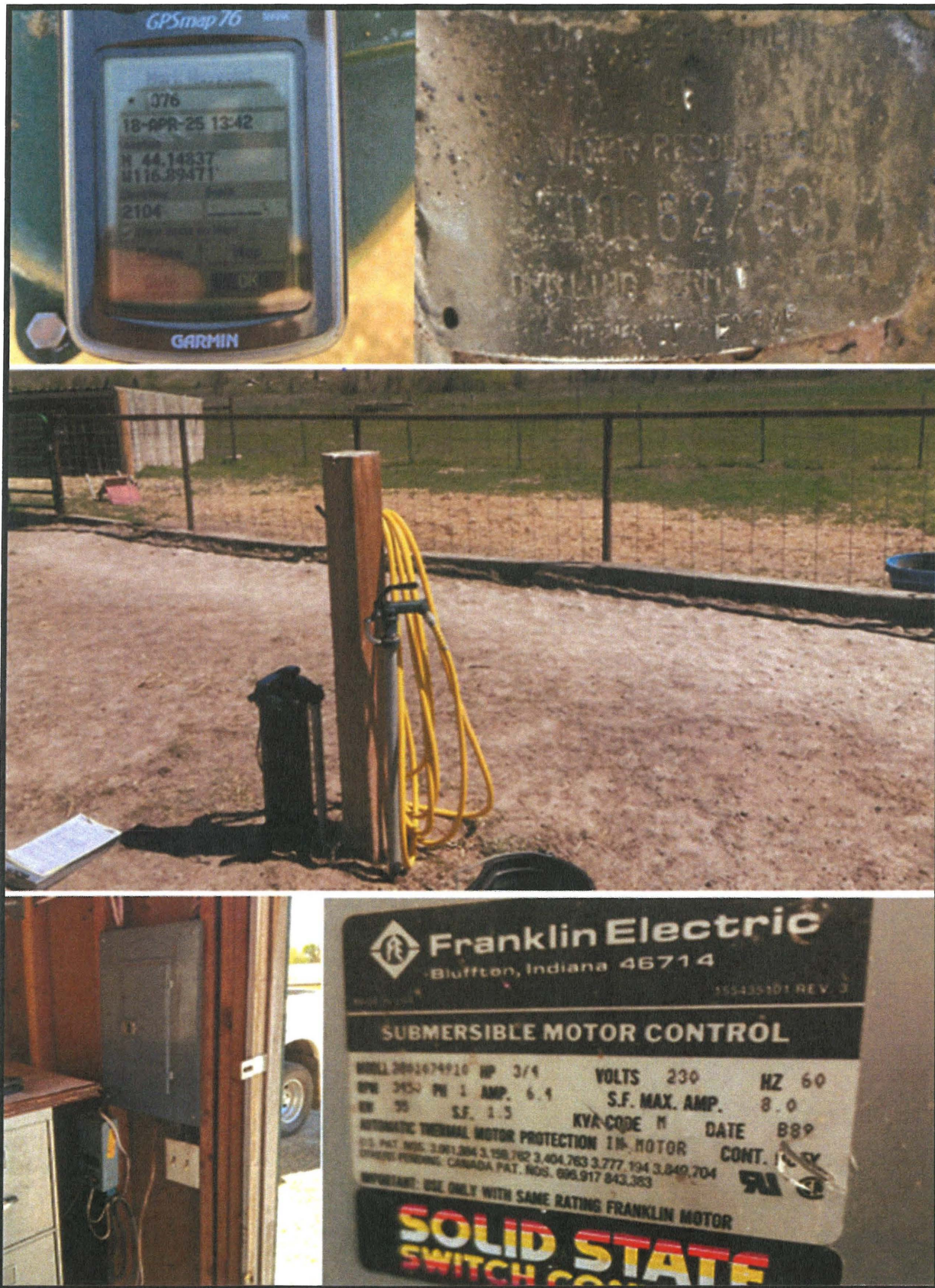
Photo 2- Standing at the northwest corner of the yard facing west into the irrigated area nearest the roadway.



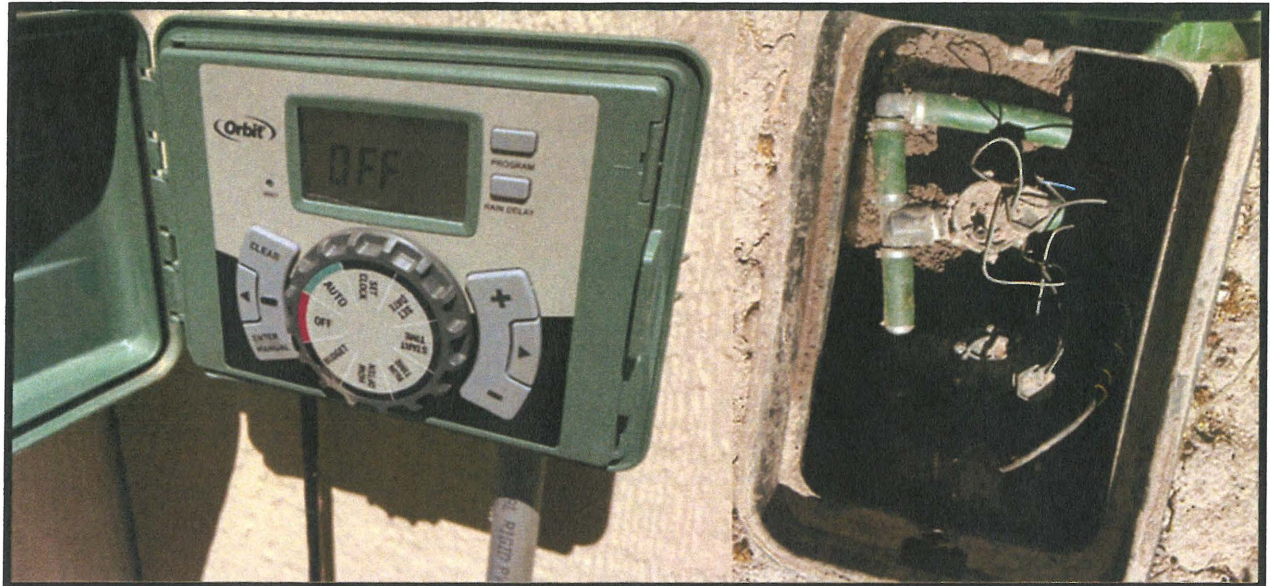
Photo 3- Standing north of the outbuildings facing west into the undeveloped/unirrigated gravelled area from the small stock area in the middle of the north end of the POU to the roadway to the west of the POU.



Photos 4 to 6- Frost-free hydrants (circled in blue) garden beds, lawn behind home, and landscape bed with driplines surrounding home.



Photos 7 to 11-(above) The domestic well head, frost-free hydrant, tag, GPS coordinates, and power service in the outbuilding northwest of the home.



Photos 12 & 13- Sprinkler system timer and control valves for system surrounding the home. There are 3 zones, two of which are rotary heads, and one is driplines in the landscaped beds surrounding the home.



Photo 14- Rain Bird 5000 series rotary heads found in the lawn surrounding the home.



Photos 15 & 16- Irrigation well head while recording GPS coordinates.



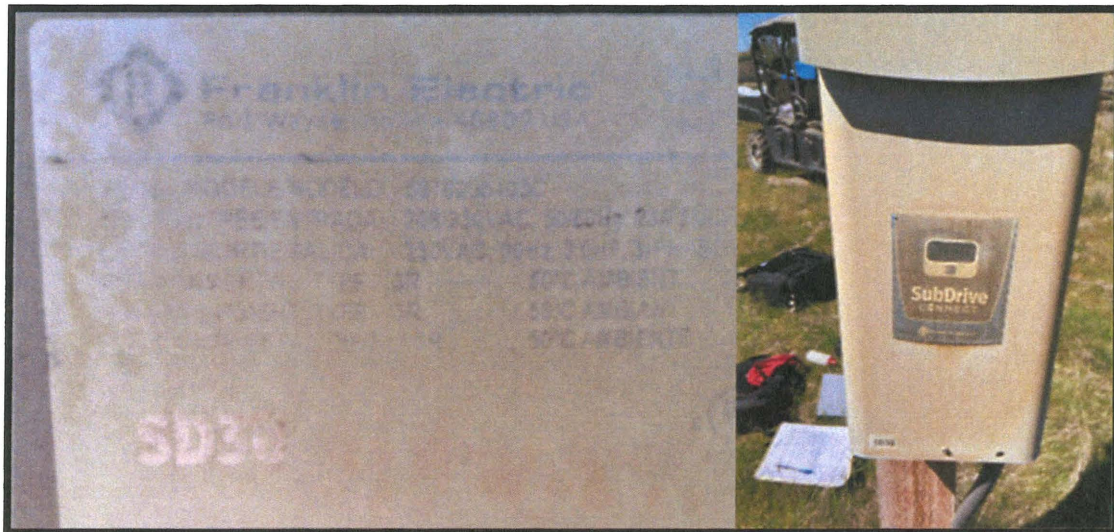
Photo 17- Standing at the northern fence line facing east. Rack of hand lines and the well head to the east (background).



Photos 18 & 19- Irrigation well tag and live reading (0.08cfs) while recording measurements the hand line irrigation system.



Photos 20a & 20b- Rain Bird sprinkler head on the hand line with 9/64 tip.



Photos 21 & 22- Pump tag (3 Hp, 3 phase, 50Hz, 230V) on the side of the VFD controller (right).



Photos 23 & 24- Diameter measurement of handline (3" aluminum). Pressure gauge on well head while running (64psi).



Photo 25—Facing south from the northside of the well head with the system running and Panametric taking measurements.



Photo 26—Facing southwest from the east side of the well head.



Photo 27—Standing at the east fence line facing west looking across the irrigation POU.



IDAHO DEPARTMENT OF
WATER RESOURCES

Western Region • 2735 W Airport Way • Boise, ID 83705-5082

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Governor Brad Little

Director Mathew Weaver

March 25, 2025

JUSTIN & MAKAYLA JOHNSON
PO BOX 824
PAYETTE, ID 83661-0824

RE: Scheduling Field Exam for Water Right Permit No. 67-15330

Dear Permit Holder:

We are planning to conduct water right examinations in the vicinity of the above-referenced permit **April 11, 2025**. An examination is needed to verify the water use in order to issue a water right license.

The above-referenced permit authorizes **0.18 CFS** from a **Groundwater** for **irrigation and domestic** uses. **If you have developed a beneficial use and still own the place of use property, please contact me at your earliest convenience to schedule an examination.**

If you did not develop a beneficial use of water under the permit during the beneficial use period, a license cannot be issued and the permit should be relinquished. If that use was developed, but have ceased using the water and you currently carry no interest in it, please relinquish the permit by submitting the enclosed Relinquishment of Permit form (no fee required).

If you did develop a beneficial use of water under the permit, but you no longer own the place of use property identified in the permit, please submit the enclosed Assignment of Permit form with the applicable \$25 processing fee.

Please contact me within the next thirty (30) days at (208) 605-4628 to either schedule an examination or submit a relinquishment or assignment form. If you no longer own the place of use property and/or do not respond to this letter, the department will work with the current property owner to issue a license or void the permit.

Sincerely,



IDAHO DEPARTMENT OF
WATER RESOURCES

Bob Howe | Water Resource Agent, Sr.

2735 W Airport Way, Boise, ID 83705-5082

(208) 605-4628 | www.idwr.idaho.gov

Enclosures: Relinquishment of Permit form
Assignment of Permit form
Water Permit Report and Map