

STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES  
BENEFICIAL USE FIELD REPORT

**A. GENERAL INFORMATION**

Permit No: 74-16042  
Exam Date: 06/12/2024

1. Current Owner:  
GARY R JENSON 55 THREE MILE LN SALMON ID 83467-5251 AND  
JOAN JENSON 55 THREE MILE LN SALMON ID 83467
2. Accompanied by: Jean  
Phone No: (208)940-0112 (Gary's Cell)  
Address: Same as above  
Relationship to permit Holder: Sister in-law

**3. SOURCE:**

LEMHI RIVER

**Tributary**

SALMON RIVER

Method of Determination: GIS, Garmin GPS, Lemhi County Tax Parcel DataPayment Received: YesReceipt # C105454**B. OVERLAP REVIEW**

1. Other water rights with the same place of use: YES Overlap

| Water Right No. | Source      | Purpose of Use | Basis             |
|-----------------|-------------|----------------|-------------------|
| 74-676          | LEMHI RIVER | STOCKWATER     | LICENSE (DECREED) |

Comments: The only right overlapping the permitted place of use (POU) is for a different beneficial use than the permit.

2. Other water rights with the same point-of-diversion: YES Overlap

| Water Right No.                   | Source      | Purpose of Use         | Basis             |
|-----------------------------------|-------------|------------------------|-------------------|
| 74-7143                           | LEMHI RIVER | DOMESTIC               | LICENSE (DECREED) |
| 74-318C, 318B, 319D, 319F, et al. | LEMHI RIVER | IRRIGATION, STOCKWATER | LICENSE (DECREED) |

Comments: The permitted point of diversion (POD) is delivered through the L-6 Ditch and a lateral thereof which is shared by numerous rights. The Watermaster was solicited for comment via email and responded that there are no concerns regarding the impacts to the existing rights sharing the same source, and the right can be administered by priority.

**C. DIVERSION AND DELIVERY SYSTEM**

1. **LOCATION OF POINT(S) OF DIVERSION: GPS Coordinates: N45°07.708 W113°47.745**

LEMHI RIVER SE¼ SE¼, Sec. 24, Twp 21N, Rge 22E, B.M. LEMHI County

Method of Determination: Garmin Trek 20 GPS and GIS**PLACE OF USE:** IRRIGATION

| Twp | Rng | Sec | NE |    |     |    | NW |    |    |    | SW |    |    |    | SE |    |    |    | Totals |
|-----|-----|-----|----|----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|--------|
|     |     |     | NE | NW | SW  | SE | NE | NW | SW | SE | NE | NW | SW | SE | NE | NW | SW | SE |        |
| 21N | 22E | 23  |    |    | 8.0 |    |    |    |    |    |    |    |    |    |    |    |    |    | 8.0    |

Total Acres: 8.0

Method of Determination: : GIS, Lemhi County Tax Parcel Data, and field observations.

3.
  - ☒ Delivery System Diagram Attached (required). Indicate all major components and distances between components.
  - ☒ 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.
  - ☒ Aerial Photo Attached (required for irrigation of 10+ acres).
  - ☒ Photo of Diversion and System Attached

## 4.

| Well or Diversion ID No.* | Motor Make | Hp | Motor Cat No. | Pump Make | Pump Motor Spec No. or Discharge Size |
|---------------------------|------------|----|---------------|-----------|---------------------------------------|
| Pump intake at Lateral    | Baldor     | 3  | JL1323A       | Unknown   | 35H992Y105                            |

**D. FLOW MEASUREMENTS**

1.

| Measurement Equipment | Type | Make | Model No. | Serial No. | Size | Calib. Date |
|-----------------------|------|------|-----------|------------|------|-------------|
| NONE                  | NA   | NA   | NA        | NA         | NA   | NA          |

2. Measurements: The system did not have an adequate section of level pipe for a Panametric to measure the rate accurately. The system information available provided sufficient information for a theoretical calculation, and field observations confirmed the system is capable of running at full capacity.

**E. FLOW CALCULATIONS**

Additional Computation Sheets Attached

Measured Method: Theoretical Calculation-Based on Field Data

| <b>Nozzles</b>                                                                                   |                    |                  |                                |                 |                   |            |
|--------------------------------------------------------------------------------------------------|--------------------|------------------|--------------------------------|-----------------|-------------------|------------|
| Application rates vary with nozzle selection. Note: Irripod Effluent Kit contains 4.0mm nozzles. |                    |                  |                                |                 |                   |            |
| Nozzle Size mm                                                                                   | Nozzle Colour Code | Flow Rate* l/min | Area (20 x 20m) m <sup>2</sup> | Intensity mm/hr | Intensity mm/24hr | Diameter m |
| 4.0mm                                                                                            | Turquoise          | 15.6             | 400                            | 2.34            | 56.16             | 27.50      |
| 4.4mm                                                                                            | Yellow             | 19.2             | 400                            | 2.88            | 69.12             | 28.00      |
| 4.8mm                                                                                            | Red                | 22.8             | 400                            | 3.42            | 82.08             | 29.00      |
| 5.2mm                                                                                            | White              | 27               | 400                            | 4.05            | 97.20             | 30.00      |
| 5.6mm                                                                                            | Blue               | 31.2             | 400                            | 4.68            | 112.32            | 30.50      |

\* Senninger 4023-1-20mm. Sprinkler pressure is @ 2.5 Bar.

| **Operating Pressure** |  |  |  |  |  |  |
| Minimum operating pressure required at each Pod is 2.5 Bar |  |  |  |  |  |  |

Table 1. System specifications from the Irripod website (Irripod.com).

(1 bar = 14.5038 psi) operating pressure is 2.5 Bar = 36.3 psi

(1 liter = 0.264 Gal) 22.8 L/min = 6.02 GPM per sprinkler head x 11 heads = 66.2 GPM / 448.83 = 0.15cfs total output.

Lift= 4,200ft – 4,154ft = 46ft (elevation difference from lateral to upper Irripod)

Head Pressure Due to Elevation to first Pod= 20ft/2.31= 8.7 psi

$Q = (3 \text{ Hp})(8.8)(0.90 \text{ efficiency}) / (46 \text{ ft lift}) + (2.31)(8.7 \text{ psi} + 36.3 \text{ psi}) = 0.16 \text{ cfs}$

Theoretical Calculation= 0.16cfs

Permit allowed = 0.18cfs

Weir Measurement= 42.8cfs (see photos 1-4, & Figure 2)

BU limited Rate = 0.16cfs

Recommendation= 0.16cfs

**F. VOLUME CALCULATIONS**

1. Volume Calculations for irrigation:

$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 8 \text{ acres} \times 3.5 \text{ AF per acre} = 28 \text{ AF}$

$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.16 \text{ cfs} \times 246 \text{ Days} \times 1.9835 = 78.1 \text{ AF}$

$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 28 \text{ AF}$

2. Volume Calculations for Other Uses: NA

Amendment: No volume recommendation for Irrigation Rights taking from surface water according to Beneficial Use Exam IDAPA Rule 35.01.(i).viii, the volume will not be reported on the license.

**G. NARRATIVE/REMARKS/COMMENTS**

The field examination was conducted by Bob Howe (WRA) and Justin Shearer (Water Rights Supervisor) on June 12, 2024, with Jean (the permit holder's sister-in-law) as an escort. A lateral along the northeast boundary of the POU along the road flows from the southeast where it is diverted from the Lemhi River through the L-6 headgates to a broad crested measuring weir (photos 1-4 and Figure 2) downstream of the weir water flows into several laterals meandering across the valley west of the Lemhi River. Along the roadway northeast of the POU a pumpstation with a 3Hp pump diverts water through an intake beneath a fish screen (photos 5-8) discharging through a buried 3" poly line conveying water to the connection cam for the Irripod irrigation system located just southwest of the southwest corner of the fence line enclosing the home and driveway. The Irripod system used within the POU (photos 9-12) is comprised of lengths of 1 3/4" poly line running inline connecting 11 evenly spaced Irripod sprinklers with red tips (Figure 1-System Diagram). The system component specifications were found at the Irripod website (Irripod.com) for use in section E of this report (table 1).

Of the 9-acre POU approximately 8 acres are developed, based on field observations and GIS measurement of the beneficial use. The system was running at the time of the field examination and each sprinkler was observed to have an approximate coverage radius of 40 ft (photo 11). Based on the field observations and the system specifications the system is capable of running at full capacity. The theoretical calculation in section E supports that the pump can divert a rate of 0.16cfs (0.02cfs per acre). Correspondence with the Watermaster, Lacey French, confirmed that there were no concerns regarding any impacts to existing rights or the administration of the diversion (email correspondence on file).

Based on the beneficial use developed, system capability documented, and the field headgate calculation in section F of this report I recommend the license be issued with a rate of 0.16cfs and an annual volume of 28 AF for the irrigation of 8 acres. The license should carry the text condition on the permit restricting diversion and conditions, R05, R02, WB9, 086, 087, 196, 197, 198, R63, and 004. Permit condition 01H should be replaced with condition R02 at licensing, as per current guidance. Condition 029 should be removed at licensing as a fish screen was installed at the intake at the time of the field examination.

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            | 03/15 to 11/15       | 0.16 CFS                 | 28.0 AF              |

**Totals:** 0.16 CFS 28.0 AF

**2. Recommended Amendments**

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

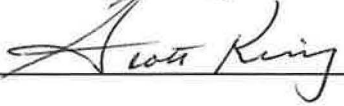
☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☒ None

**I. AUTHENTICATION**

Bob Howe - Water Resource Agent

Amendments (4/23/2026) – Izzy Crichton – Water Resource Agent

Field Examiner's Name  Date \_\_\_\_\_

Reviewer  Date June 9, 2026

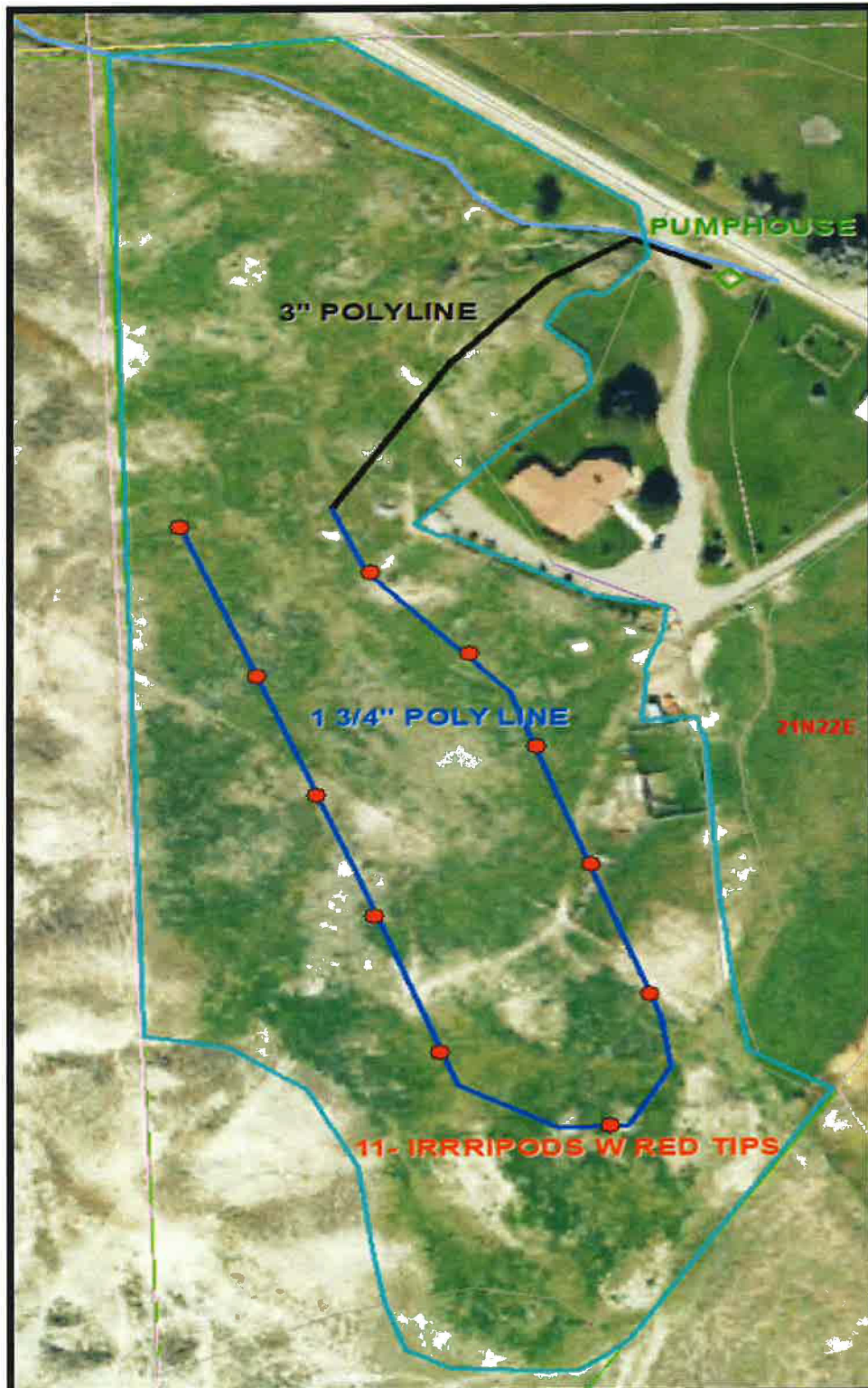


Figure 1- GIS NAIP 2023 imagery- System Diagram (not to scale).



**Photo 1 (Left)**-Image of the L-6 Headgate along the west bank of the Lemhi River. **Photo 2 (Right)**-Facing downstream of the L-6 Headgate with the broad crested weir visible at the bend in the ditch.



**Photos 3 & 4**- Broad crested measuring weir just downstream of the headgate for the L-6. Reading observed at 1.14ft.

**L-6 Diversion****Lemhi River****Water Measurement Table****Broad-Crested Weir****6" Crest Height****2'-6" Crest Length****10' Crest Width****Vertical Side Walls (Steel)**

50 Miners Inches = 1 CFS

**Flow Equation**

$$Q = K1 * (\text{Head} + K2)^{1.5} U$$

$$33.86 = K1$$

$$0.01 = K2$$

$$1.636 = U$$

| Head<br>(feet) | Flow Rate<br>(cfs) (Inches) |     | Head<br>(feet) | Flow Rate<br>(cfs) (Inches) |      | Head<br>(feet) | Flow Rate<br>(cfs) (Inches) |      |
|----------------|-----------------------------|-----|----------------|-----------------------------|------|----------------|-----------------------------|------|
| 0.20           | 2.7                         | 136 | 0.70           | 19.5                        | 976  | 1.20           | 46.5                        | 2325 |
| 0.21           | 2.9                         | 146 | 0.71           | 20.0                        | 998  | 1.21           | 47.1                        | 2356 |
| 0.22           | 3.1                         | 157 | 0.72           | 20.4                        | 1021 | 1.22           | 47.8                        | 2388 |
| 0.23           | 3.4                         | 168 | 0.73           | 20.9                        | 1044 | 1.23           | 48.4                        | 2420 |
| 0.24           | 3.6                         | 180 | 0.74           | 21.3                        | 1067 | 1.24           | 49.0                        | 2452 |
| 0.25           | 3.8                         | 192 | 0.75           | 21.8                        | 1090 | 1.25           | 49.7                        | 2484 |
| 0.26           | 4.1                         | 204 | 0.76           | 22.3                        | 1113 | 1.26           | 50.3                        | 2516 |
| 0.27           | 4.3                         | 216 | 0.77           | 22.7                        | 1137 | 1.27           | 51.0                        | 2548 |
| 0.28           | 4.6                         | 228 | 0.78           | 23.2                        | 1161 | 1.28           | 51.6                        | 2581 |
| 0.29           | 4.8                         | 241 | 0.79           | 23.7                        | 1185 | 1.29           | 52.3                        | 2614 |
| 0.30           | 5.1                         | 254 | 0.80           | 24.2                        | 1209 | 1.30           | 52.9                        | 2647 |
| 0.31           | 5.4                         | 268 | 0.81           | 24.7                        | 1233 | 1.31           | 53.6                        | 2680 |
| 0.32           | 5.6                         | 282 | 0.82           | 25.2                        | 1258 | 1.32           | 54.3                        | 2713 |
| 0.33           | 5.9                         | 295 | 0.83           | 25.7                        | 1283 | 1.33           | 54.9                        | 2746 |
| 0.34           | 6.2                         | 310 | 0.84           | 26.2                        | 1308 | 1.34           | 55.6                        | 2780 |
| 0.35           | 6.5                         | 324 | 0.85           | 26.7                        | 1333 | 1.35           | 56.3                        | 2813 |
| 0.36           | 6.8                         | 339 | 0.86           | 27.2                        | 1358 | 1.36           | 56.9                        | 2847 |
| 0.37           | 7.1                         | 354 | 0.87           | 27.7                        | 1384 | 1.37           | 57.6                        | 2881 |
| 0.38           | 7.4                         | 369 | 0.88           | 28.2                        | 1409 | 1.38           | 58.3                        | 2915 |
| 0.39           | 7.7                         | 384 | 0.89           | 28.7                        | 1435 | 1.39           | 59.0                        | 2950 |
| 0.40           | 8.0                         | 400 | 0.90           | 29.2                        | 1461 | 1.40           | 59.7                        | 2984 |
| 0.41           | 8.3                         | 416 | 0.91           | 29.8                        | 1488 | 1.41           | 60.4                        | 3019 |
| 0.42           | 8.6                         | 432 | 0.92           | 30.3                        | 1514 | 1.42           | 61.1                        | 3053 |
| 0.43           | 9.0                         | 449 | 0.93           | 30.8                        | 1541 | 1.43           | 61.8                        | 3088 |
| 0.44           | 9.3                         | 465 | 0.94           | 31.3                        | 1567 | 1.44           | 62.5                        | 3123 |
| 0.45           | 9.6                         | 482 | 0.95           | 31.9                        | 1594 | 1.45           | 63.2                        | 3159 |
| 0.46           | 10.0                        | 499 | 0.96           | 32.4                        | 1622 | 1.46           | 63.9                        | 3194 |
| 0.47           | 10.3                        | 516 | 0.97           | 33.0                        | 1649 | 1.47           | 64.6                        | 3229 |
| 0.48           | 10.7                        | 534 | 0.98           | 33.5                        | 1676 | 1.48           | 65.3                        | 3265 |
| 0.49           | 11.0                        | 552 | 0.99           | 34.1                        | 1704 | 1.49           | 66.0                        | 3301 |
| 0.50           | 11.4                        | 570 | 1.00           | 34.6                        | 1732 | 1.50           | 66.7                        | 3337 |
| 0.51           | 11.8                        | 588 | 1.01           | 35.2                        | 1760 | 1.51           | 67.5                        | 3373 |
| 0.52           | 12.1                        | 607 | 1.02           | 35.8                        | 1788 | 1.52           | 68.2                        | 3409 |
| 0.53           | 12.5                        | 625 | 1.03           | 36.3                        | 1817 | 1.53           | 68.9                        | 3446 |
| 0.54           | 12.9                        | 644 | 1.04           | 36.9                        | 1845 | 1.54           | 69.6                        | 3482 |
| 0.55           | 13.3                        | 663 | 1.05           | 37.5                        | 1874 | 1.55           | 70.4                        | 3519 |
| 0.56           | 13.7                        | 683 | 1.06           | 38.1                        | 1903 | 1.56           | 71.1                        | 3556 |
| 0.57           | 14.0                        | 702 | 1.07           | 38.6                        | 1932 | 1.57           | 71.9                        | 3593 |
| 0.58           | 14.4                        | 722 | 1.08           | 39.2                        | 1961 | 1.58           | 72.6                        | 3630 |
| 0.59           | 14.8                        | 742 | 1.09           | 39.8                        | 1990 | 1.59           | 73.4                        | 3668 |
| 0.60           | 15.2                        | 762 | 1.10           | 40.4                        | 2020 | 1.60           | 74.1                        | 3705 |
| 0.61           | 15.7                        | 783 | 1.11           | 41.0                        | 2050 | 1.61           | 74.9                        | 3743 |
| 0.62           | 16.1                        | 803 | 1.12           | 41.6                        | 2080 | 1.62           | 75.6                        | 3780 |
| 0.63           | 16.5                        | 824 | 1.13           | 42.2                        | 2110 | 1.63           | 76.4                        | 3818 |
| 0.64           | 16.9                        | 845 | 1.14           | 42.8                        | 2140 | 1.64           | 77.1                        | 3856 |
| 0.65           | 17.3                        | 866 | 1.15           | 43.4                        | 2170 | 1.65           | 77.9                        | 3895 |
| 0.66           | 17.8                        | 888 | 1.16           | 44.0                        | 2201 | 1.66           | 78.7                        | 3933 |
| 0.67           | 18.2                        | 910 | 1.17           | 44.6                        | 2232 | 1.67           | 79.4                        | 3971 |
| 0.68           | 18.6                        | 931 | 1.18           | 45.3                        | 2263 | 1.68           | 80.2                        | 4010 |
| 0.69           | 19.1                        | 953 | 1.19           | 45.9                        | 2294 | 1.69           | 81.0                        | 4049 |

USBR Salmon Field Office - Lemhi River L-6 J/s. bhamilton 2/21/2018

**Figure 2-** USBR Water Measurement Table for the L6 Diversion. Reading on 06/12/2024 was approximately 42.8cfs.



**Photos 5 & 6-** Fish screen weir in the lateral with intakes entering the pump doghouse on the northeast side of the POU next to the road. 3" poly discharge is exposed for about 4ft then buried entering the POU to the southeast.

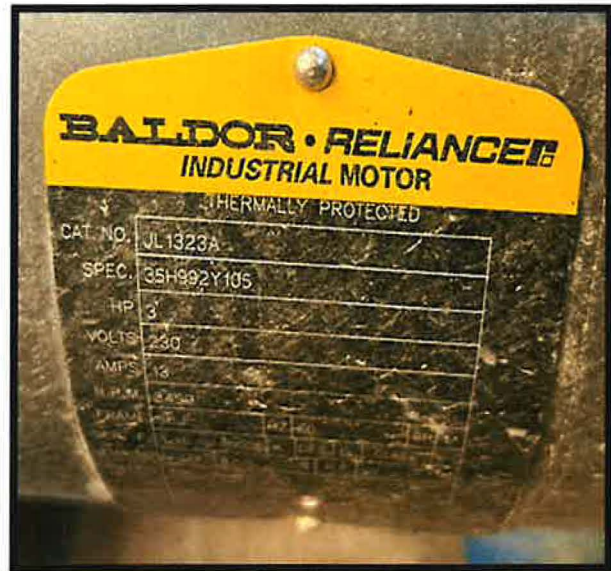


**Photo 7 (Left)-** The upper pump in the image is for the Irripod system. The lower pump is for neighboring irrigation.

**Photo 8 (right) -**Specification plate on the pump motor.



**Photo 9** -Standing at the southernmost extent of the POU facing northeast. Sprinklers visible running throughout the field below.

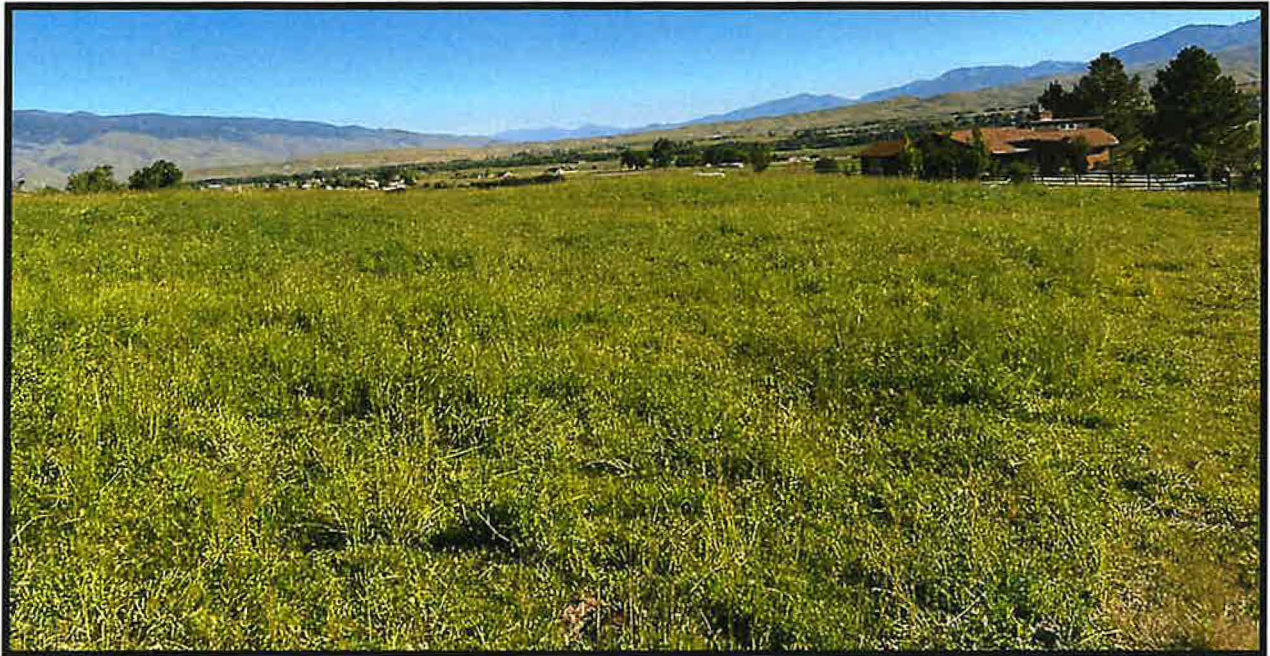


**Photo 10** -Standing at the southernmost extent of the POU facing north. Grass is about knee deep throughout the POU.



**Photo 11** - Standing south of the POU facing east with the last Irripod near the center of the image irrigating the area nearest the southeast corner of the POU.



Photo 12 – Irripod with red tip at the end of the line. All 11 sprinklers have the same components.

**Crichton, Izzy**

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**From:** Lacey French <charlield2015@gmail.com>  
**Sent:** Tuesday, October 8, 2024 4:43 PM  
**To:** Howe, Bob  
**Subject:** Re: Administration Inquiry for Permit 74-16042

**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.**

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Hi Bob,

There are currently no issues with delivery regarding 74-16042.

Let me know if you need any other information.

Thank you,

Lacey French  
District 74 Water Master  
208-993-3655

On Tue, Oct 8, 2024 at 2:51 PM Howe, Bob <[Bob.Howe@idwr.idaho.gov](mailto:Bob.Howe@idwr.idaho.gov)> wrote:

Hi Lacey,

I am seeking comment regarding any administration issues or availability concerns related to Gary & Joan Jenson's permit 74-16042 diverting from a lateral of the L-6 for the irrigation of 8 acres at 55 Three Mile Ln, Salmon, ID. I have completed my field report and just wanted to reach out to you regarding any delivery or administration concerns you may have related to the licensing of this permit. I noted that there are a significant number of existing rights receiving delivery from the L-6 and just want to make sure the permitted use can be accommodated for in priority. Thank you for your time and consideration in this matter. Feel free to reach out to me with any questions regarding this request.



IDAHO DEPARTMENT OF  
**WATER RESOURCES**

322 E Front Street, Suite 648, Boise ID 83702 • PO Box 83720, Boise ID 83720-0098

Phone: 208-287-4800 • Fax: 208-287-6700 • Email: [idwrinfo@idwr.idaho.gov](mailto:idwrinfo@idwr.idaho.gov) • Website: [idwr.idaho.gov](http://idwr.idaho.gov)

**Governor Brad Little**

**Director Mathew Weaver**

May 2, 2024

GARY R JENSON  
55 THREE MILE LN  
SALMON, ID 83467-5251

**RE: Scheduling Field Exam for Water Right Permit No. 74-16042**

Dear Permit Holder:

We are planning to conduct water right examinations in the vicinity of the above-referenced permit **on the week of June 10 to June 14, 2024**. 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 Lemhi River for Irrigation use**. 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. Please note that all conditions of the permit must be met before licensing can occur (see attached Permit Proof Report).**

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 Ownership Change form with the applicable \$25 processing fee.

**Please contact me within the next thirty (30) days at (208) 287-4847 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,

**Bob Howe**



IDAHO DEPARTMENT OF  
**WATER RESOURCES**

**Bob Howe | Water Resource Agent**  
322 E Front St, PO Box 83720, Boise, ID 83720  
(208) 287-4800 | [www.idwr.idaho.gov](http://www.idwr.idaho.gov)

Enclosures: Relinquishment of Permit form  
Change of Ownership form  
Water Permit Report and Map