

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 63-35591
Exam Date: 5/16/2024

1. Current Owner:
MIKE LENZ
324 WHITE ROCK WAY
MELBA ID 83641-5279
2. Accompanied by: Tyson Christensen, current farm operator
Phone No: 208-318-4745
Address:
Relationship to permit Holder: None; operates most of the farmland under the permit.

3. **SOURCE:**
GROUCH DRAIN

Tributary
SNAKE RIVER

Method of Determination: Aerial imagery and site visit.

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 16 irrigation rights overlap the POU.

Comments: There are 11 decreed overlapping irrigation rights from the Boise River in the name of Boise Kuna Irrigation District, Bureau of Reclamation, or Boise Project Board of Control; and one each from Five Mile Creek, Ten Mile Creek, Indian Creek, and Waste Water owned by some of the same entities. License 63-11495, (irrigation, ground water) in the name of Ralph Gant, also appears to overlap the POU, but the use of that right appears to be about ¼ to ½ mile north of this POU.

2. Other water rights with the same point-of-diversion: None

Water Right No.	Source	Purpose of Use	Basis
NA			

Comments: No other rights share the same PODs.

C. DIVERSION AND DELIVERY SYSTEM

1. **LOCATION OF POINT(S) OF DIVERSION:**

GROUCH DRAIN SE¼ NW¼, Sec. 3, Twp 01S, Rge 02W, B.M. CANYON County (West POD)

Method of Determination: Beneficial Use Exam site visit and ArcMap aerial imagery.

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	
01S	02W	3							7.2	6.2									13.4

Total Acres: 13.4

PLACE OF USE: STOCKWATER

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
01S	02W	3							X	X									

Method of Determination: Beneficial Use Exam site visit and ArcMap aerial imagery.

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
☒ X 1:24,000 or greater.
☒ X Aerial Photo Attached (required for irrigation of 10+ acres).
☒ X Photo of Diversion and System Attached

4.

Well or Diversion ID No.*	Description
West POD	Check in Grouch Drain diverts water into a ditch which flows to a pond where water is pumped to irrigation system (sprinklers).

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
Portable Weir	Cipolletti				1.5'	

2. Measurements:

A measurement was made with a portable Cipolletti weir at the West POD. The staff gauge on the weir showed a head reading of 0.24' and from the USBR Water Measurement Manual, Cipolletti weir discharge table, the flow was 0.59 cfs.

E. FLOW CALCULATIONS

Additional Computation Sheets Attached

Measured Method: The rate measured was above the 0.02 cfs/acre allowed, so the licensed amount will be reduced accordingly. The acres irrigated in the West POU are 13.4, so, $13.4 \times 0.02 = 0.27$ cfs.

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation: No volume assigned per Beneficial Use Examination Rules, 37.03.02.035.01.j.viii.

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$$

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

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

2. Volume Calculations for Other Uses: No volume will be assigned to the stockwater portion, because the flow rate for stockwater (0.02 cfs) will only produce 12,926.3 gallons in 24 hours, which is less than a domestic use as defined in Section 42-111, Idaho Code, and such domestic uses are exempt from the volume reporting requirement per Beneficial Use Examination rule 37.03.02.035.01.j.ii.

G. NARRATIVE/REMARKS/COMMENTS

The field exam for permit 63-34427 was conducted on May 16, 2024 with current farm operator Tyson Christensen present. No contact has been made with the permit holder, Mike Lenz, during any of the licensing process, as he has a health issue which has prevented communication with him. This has made licensing of the permit dependent upon information from Mr. Christensen, conversations with neighboring property owners, and inspection/interpretation of aerial imagery.

This permit originally listed three points of diversion (POD) from the Grouch Drain, but the field exam site visit, interviews with neighbors, and inspection of aerial imagery indicate that only two PODs were developed- the West POD (T01S, R02W, Section 3, SENW) and the East POD (T01S, R02W, Section 3, NWNE, Lot 2). Because of this, the property that was to have been irrigated from the third POD was likely not irrigated under this permit and will be dropped from the place of use (POU) at licensing. Additionally, two licenses will be issued for this permit, as there are two distinct and separate PODs and POUs and the POUs are not contiguous nor connected. For identification purposes, the POU and POD in the SWNW and SENW of Section 3 will be referred to as "West POD" or "West POU", and will fall under child license 63-35591. The POD and POU in the NWNE Lot 2 and SWNE of Section 3 will be referred to as "East POD" or "East POU", and will fall under the parent license 63-34427.

Water at the West POD is diverted from the Grouch Drain, where a concrete check in the Drain directs water into a ditch that flows about 600' to a pond that also receives waste water from the surrounding fields. A 10 HP pump in the pond sends the water to numerous large sprinklers located around the pasture, while any water not pumped flows back into Grouch Drain. A flow measurement in the ditch, using a portable Cipolletti weir, yielded a flow rate of 0.59 cfs. This rate will be reduced to 0.27 cfs as 13.4 acres were irrigated during the development period, and the standard 0.02 cfs/acre yields that rate. No volume will be assigned, because the source is surface water (Beneficial Use Examination Rules, 37.03.02.035.01.j.viii). Horses were observed grazing in the pasture and had access to the pond and ditch, so the Stockwater portion of the permit will be carried forward to licensing, also without a volume (see the volume portion of the field report).

At the East POD, water was diverted via a concrete check structure into a pond where a 7.5 HP pump directed water up a hill via 8" gated pipe to a small pond where it could then be sent to any of five fields to be irrigated by gated pipe or siphon tubes in cement ditches. Water from the Boise Kuna Irrigation District was combined with the Grouch Drain water in this pond. The pump capacity of the 7.5 HP pump determined the diversion rate, and anything not pumped into the system flowed back into the Grouch Drain. A theoretical calculation of the flow rate showed a potential flow rate of 2.31 cfs; that will be reduced to 0.72 cfs (0.02 x 36.2 acres irrigated during the development period). No volume will be assigned, as the source is surface water, and no stockwater use was permitted at this location; none was observed. The East POU irrigation practices have changed since the development period, mainly because the power line to the pump has been removed. The water no longer is piped to the small pond and sprinkler irrigation has replaced much of the furrow irrigation.

I recommend splitting the right into two rights, the parent right (63-34427) representing the East POU/POD and the child portion (63-35591) representing the West POU/POD. The East portion will have a flow rate of 0.72 cfs with 36.2 acres of irrigation and the West portion will have a flow rate of 0.27 cfs with 13.4 acres of irrigation. The West portion will also have a stockwater component of 0.02 cfs.

A portion of the land under the two rights is owned by the Raymond and Joan Lenz Family Trust, but the remainder of the property that the rights are appurtenant to is owned by multiple landowners.

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>	
IRRIGATION	03/01 to 11/15	0.27 CFS	
STOCKWATER	01/01 to 12/31	0.02 CFS	

Totals: 0.29 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

I. AUTHENTICATION

Field Examiner's Name  Date 7-1-2024
Reviewer  Date 7/2/2024



Point of Diversion - Ditch from Grouch Drain to regulating pond.

Place of use – irrigated pasture



63-35591 Lenz

63-35591 Lenz

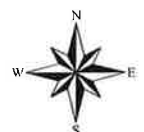
POD/POU Map



Legend

- Township/Range
- Sections
- QQ

0 0.02 0.04 0.08 Miles



Field Exam 63-35591

**Legend**

- Township/Range
- Sections
- QQ

0 0.02 0.04 0.08 Miles

