

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 63-34003
Exam Date: 01/24/2020

1. Current Owner:
RICHARD J LUTHER 4901 HEMLOCK WAY NAMPA ID 83687 AND/OR
KAREN LUTHER 4901 HEMLOCK WAY NAMPA ID 83687
2. In-office qualification (IDAPA 035.01.r):
Total diversion rate ≤ 0.24 cfs and irrigation < 5 acres
3. **SOURCE:**
GROUND WATER

Method of Determination: Aerial imagery, digital PLSS map, well driller's reports

B. OVERLAP REVIEW

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

Water Right No.	Source	Purpose of Use	Basis
Nampa & Meridian Irr. Dist WR's	Groundwater	Irrigation	Decreed

Comments: Only overlap is Nampa & Meridian Irrigation District water rights

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

Water Right No.	Source	Purpose of Use	Basis

Comments: No POD Overlap

C. DIVERSION AND DELIVERY SYSTEM

1. **LOCATION OF POINT(S) OF DIVERSION:**
GROUND WATER SW $\frac{1}{4}$ NW $\frac{1}{4}$, Sec. 8, Twp 03N, Rge 01W, B.M. CANYON County

Method of Determination: Aerial imagery, digital PLSS map

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	
03N	01W	8							1.4										1.4

Total Acres: 1.4

Method of Determination: Aerial imagery, digital PLSS map

3.

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

☒ X Indicate weir size/pipe as applicable.☒ X 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).☐ Photo of Diversion and System Attached

4.

Well or Diversion ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
440676	n/a	n/a	n/a	n/a	n/a

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: In-office field exam so flow measurement was not taken.

E. FLOW CALCULATIONS☐ Additional Computation Sheets Attached

Measured Method:

Admin AP memo no. 17 states that a rate of flow in excess of 0.02 cfs/acre is often necessary for irrigation of a small acreage, due to restricted system design mechanics and poor economy of scale. To correspond with practical design procedures, the Department will accept rates of diversion as high as 0.03 cfs/acre for irrigation of up to five acres without the justification that a rate greater than 0.02 cfs is necessary. Irrigation for 1.4 acres in this right's POU is allowed a rate up to 0.03 cfs/acre, and therefore a rate 0.03cfs/acre multiplied by 1.4 acres results in a diversion rate of 0.04 cfs. This rate of 0.04 cfs is recommended for licensing.

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 1.4 \text{ ac} \times 4.5 \text{ af/ac} = 6.3 \text{ af}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.04 \text{ cfs} \times 260 \text{ days} \times 1.9835 = 20.6 \text{ af}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 6.3 \text{ af}$$

2. Volume Calculations for Other Uses:

G. NARRATIVE/REMARKS/COMMENTS

This permit authorizes the diversion of 0.04 cfs for irrigation use in Canyon County. The permit holder is the current property owner according to tax lot data. There has been a change to the point of diversion from its description on the permit, however, the place of use has been confirmed with the use of satellite imagery

On January 28, 2020 permit holder Richard J Luther was contacted via phone. During this conversation, the permit holder stated that one well, the irrigation well drilled in 2015 ID #440676, was used for irrigation while the second well, domestic well drilled in 2008 ID #421246, was used only for domestic purposes. The irrigation well #440676 is located on the property within a pump shed to the north of the house, and is only used to supplement irrigation when Nampa & Meridian Irrigation District ditch water is unavailable. Given this information, there is only one POD, the irrigation well #440676, on this right since the second domestic well #421246 is not used for irrigation purposes. The second POD from the permit has been removed to reflect the single POD for the license. Additionally, the permit holder stated that 2 hoses come from the irrigation well, with one hose having 4 sprinklers and the other having 2 sprinklers. This is sufficient to irrigate the 1.4 acre POU when surface water is unavailable.

The POU is under 5 acres, and therefore qualifies for a diversion rate of 0.03 cfs/acre. A diversion rate of 0.04 cfs is recommended for licensing this 1.4 acre POU. Additionally, the field headgate requirement of 4.5 multiplied by the 1.4 acre POU justifies an annual volume of 6.3 af. This volume is recommended for licensing.

There is no overlap at the point of diversion. The only overlap that occurs at the place of use is from Nampa & Meridian Irrigation District and its parent organizations (Boise Project Board of Control, US Bureau of Reclamation), of which the applicant has shares with. Supplemental conditions are carried over to license.

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>Volume</u>
IRRIGATION	03/01 to 11/15	0.04 CFS	6.3 AF
<u>Totals:</u>		0.04 CFS	6.3 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 Tyler Smith - Water Resource Agent

Field Examiner's Name *TS* Date 1/29/2020

Reviewer *Patricia Kelly* Date 1-30-2020

Delivery System Diagram



Beneficial Use Field Report

General-use field report																			
BasinSequence	Owner	Source	Use	NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	TotalAcres
63-11111	ZIVKOVIC, ANDRE S; ZIVKO	GROUND WATER	IRRIGATION				X	X	X			1	X	X	X	X	X	X	1
63-136	BARKER ROSHOLT & SIMP	BOISE RIVER	IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-137B	BARKER ROSHOLT & SIMP	BOISE RIVER	IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-18044	SWISS VILLAGE FARMS	GROUND WATER	IRRIGATION												2.5				2.5
63-198AJ	CARLOCK, CARROLL C; DA	BOISE RIVER	IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-198AJ	CARLOCK, CARROLL C; DA	MORES CREEK	IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-199B	CARLOCK, CARROLL C; DA	BOISE RIVER	IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-199B	CARLOCK, CARROLL C; DA	MORES CREEK	IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-200A	BARKER ROSHOLT & SIMP	BOISE RIVER	IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-200B	CARLOCK, CARROLL C; DA	BOISE RIVER	IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-200B	CARLOCK, CARROLL C; DA	MORES CREEK	IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-2106	UNITED STATES OF AMER	FIVEMILE CREEK	IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-2109	UNITED STATES OF AMER	MASON CREEK	IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-233K	AMERICAN DITCH CO; BA	BOISE RIVER	IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-2388A	UNITED STATES OF AMER	BOISE RIVER	IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-2392B	DRAINAGE DISTRICT NO 3	WASTE WATER	IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-2392F	BOISE PROJECT BOARD O	WASTE WATER	IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-251A	UNITED STATES OF AMER	BOISE RIVER	IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-2968	FARWEST LLC; GRAY, THO	GROUND WATER	IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-30181	CARLOCK, CARROLL C; DA	BOISE RIVER	IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-30181	CARLOCK, CARROLL C; DA	MORES CREEK	IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-301A	UNITED STATES OF AMER	BOISE RIVER	IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-302A	UNITED STATES OF AMER	BOISE RIVER	IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-31628	SORRENTO LACTALIS INC;	GROUND WATER	IRRIGATION										5.7	20					25.7
63-31629	J R SIMPLOT CO; SWISS V	GROUND WATER	IRRIGATION									9.7	4.3	4.7	29	9.8	11	39	144.5
63-32108	STASTNY, CARYN; STASTN	GROUND WATER	IRRIGATION	4.6															4.6
63-32695A	NAMPA & MERIDIAN IRR	GROUND WATER	IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-32695B	NAMPA & MERIDIAN IRR	GROUND WATER	IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-33251	BOISE PROJECT BOARD O	INDIAN CREEK	IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-33253	BOISE PROJECT BOARD O	TENMILE CREEK	IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-33739	NAMPA & MERIDIAN IRR	SPRINGS	IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-34003	LUTHER, KAREN; LUTHER,	GROUND WATER	IRRIGATION								1.4								1.4
63-373A	UNITED STATES OF AMER	BOISE RIVER	IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

BasinSeq	Owner	Source	NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE
63-11111	ZIVKOVIC, ANDRE	GROUND WATER									X							
63-12035	HOWELL, CYNTHIA	GROUND WATER								X								
63-18041	SWISS VILLAGE FA	GROUND WATER												X				
63-18044	SWISS VILLAGE FA	GROUND WATER												X				
63-20403	THORNTON, DAR	GROUND WATER									X							
63-20468	BASTIAN, C O	GROUND WATER						X										
63-21321	PACKHAM, CHERY	GROUND WATER						X										
63-21347	MURRI SR, KENT D	GROUND WATER									X							
63-23216	BURNS, DENNIS; B	GROUND WATER							X									
63-23262	LEJARCEGUI, CAR	GROUND WATER						X										
63-23265	HIHATH, VETA M	GROUND WATER						X										
63-23445	GILBERT, BRUCE; C	GROUND WATER						X										
63-23764	ROBERTS, CONNIE	GROUND WATER									X							
63-23936	VAN BUREN, LYNN	GROUND WATER						X										
63-23987	YOUNG, BRENDA	GROUND WATER							X									
63-25792	MC VEY, LINDA S	GROUND WATER									X							
63-25857	BAUNE, ARLENE; J	GROUND WATER									X							
63-26199	AXELSEN, LEE; AX	GROUND WATER							X									
63-26281	BETCHAN, JERRY	GROUND WATER						X										
63-26413	SCHAMBER, DON	GROUND WATER						X										
63-26426	SILVA, RAFAEL; SI	GROUND WATER							X									
63-26719	ALBRIGHT, WAYN	GROUND WATER							X									
63-26749	MAC CARONE, MI	GROUND WATER						X										
63-27130	HADDOX, JAMES	GROUND WATER							X									
63-27243	HENZLER, GLENN;	GROUND WATER							X									
63-27300	HUSKEY, HAROLD	GROUND WATER		X														
63-27301	HUSKEY, HAROLD	GROUND WATER					X											
63-27303	LONGSTREET, THO	GROUND WATER							X									
63-27388	LARSEN, HERBERT	GROUND WATER						X										
63-27513	LEWIS, CAROL; LE	GROUND WATER							X									
63-27561	LYNSKEY, VIRGINI	GROUND WATER							X									
63-27658	DIEDERICH, HARO	GROUND WATER							X									
63-27685	DENOWH, GEORGE	GROUND WATER									X							
63-28211	HOLLISTER, ALICE	GROUND WATER							X									
63-28399	FLOREZ, BARRY K;	GROUND WATER							X									
63-28556	LEAVITT, STEVEN	GROUND WATER						X										
63-28571	PETERSEN, RAYMO	GROUND WATER							X									
63-28869	OLDHAM, JENNIF	GROUND WATER							X									
63-28979	GREER, LISA DAVI	GROUND WATER					</											