

STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES  
BENEFICIAL USE FIELD REPORT

**A. GENERAL INFORMATION**

**Permit No:** 65-23554  
**Exam Date:** 02/14/2020

1. Current Owner:  
META LIND 433 SANDRA PL EAGLE ID 83616-5351
2. In-office qualification (IDAPA 035.01.r):  
Total diversion rate  $\leq 0.24$  cfs and irrigation of less than 5 acres

3. **SOURCE:** MIDDLE FORK PAYETTE RIVER  
**Tributary**  
PAYETTE RIVER

**Method of Determination:** Aerial imagery, photographs

**B. OVERLAP REVIEW**

1. Other water rights with the same place of use: NO Overlap

Water Right No.	Source	Purpose of Use	Basis

Comments: No POU Overlap

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:**

MIDDLE FORK PAYETTE RIVER SW $\frac{1}{4}$  SE $\frac{1}{4}$ , Sec. 14, Twp 10N, Rge 04E, B.M. BOISE County

**Method of Determination:** Aerial imagery, digital PLSS map, photographs

**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	
10N	04E	14															0.8		0.8

Total Acres: 0.8

**Method of Determination:** Aerial imagery, digital PLSS map, photographs

3.

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

X 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
n/a	n/a	1	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 exam so no flow measurement was 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 0.8 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 0.8 acres results in a diversion rate of 0.03 cfs. This rate of 0.03 cfs is recommended for licensing.

**F. VOLUME CALCULATIONS**

1. Volume Calculations for irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 0.8 \text{ ac} \times 3.5 \text{ af/ac} = 2.8 \text{ af}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.03 \text{ cfs} \times 231 \text{ days} \times 1.9835 = 13.7 \text{ af}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 2.8 \text{ af}$$

2. Volume Calculations for Other Uses:

**G. NARRATIVE/REMARKS/COMMENTS**

This permit authorizes the diversion of 0.03 cfs for irrigation use in a 0.8 acre place of use within Boise County. It therefore qualified for an in-office field exam, which was completed February 14, 2020. The point of diversion and place of use were confirmed using aerial imagery, digital PLSS maps and photographs provided by the permit holder. No overlap occurs at the POD or the POU, and no changes have been recommended for either.

Water is drawn from the Middle Fork Payette River using a 1 hp sprinkler pump with timer. The pump is contained in a pump house and distributes water via two hose pipes to above ground sprinklers. The pump house is located at the northwest corner of the place of use. Delivery system was confirmed using pictures provided by the permit holder when submitting proof of beneficial use. The point of diversion is within Water District no. 65 and therefore the use of water for this right after June 15 requires approval from the watermaster.

The provided pictures also present evidence of irrigation of at the place of use. According to AP Memo no. 17, irrigation of less than 5 acres may have a diversion rate of 0.03 cfs per acre. This POU is 0.8 acres and was permitted for a diversion of 0.03 cfs, and therefore the same rate is recommended for licensing. The POU is lot 1 of the riverside estates subdivision. Tax lot data indicates that Meta Lind is the property owner at the place of use.

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	03/15 to 10/31	0.03 CFS

**Totals:** 0.03 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**

Tyler Smith - Water Resource Agent

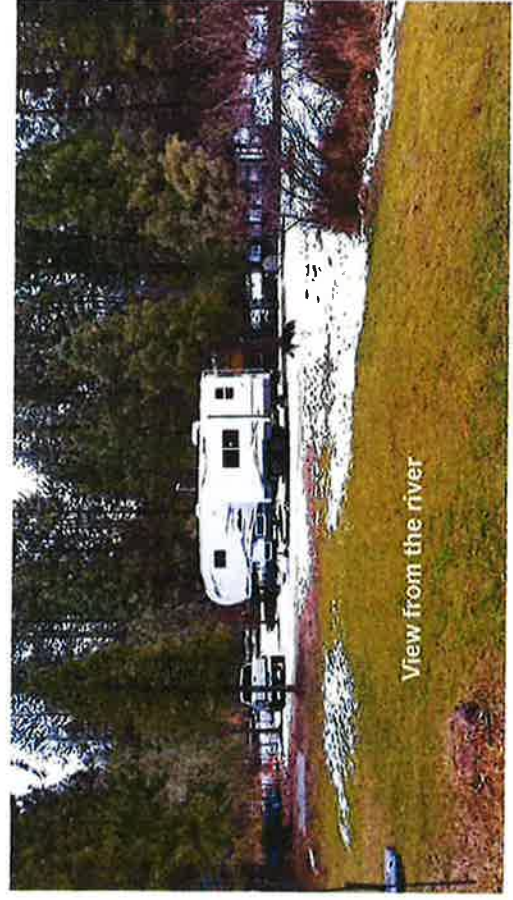
Field Examiner's Name  Date 2/19/20

Reviewer  Date 2-19-2020





1 hp Sprinkler Pump with timer drawing water from the Middlefork of the Payette sprinkling water via two hose pipes to above ground sprinklers.







Pump House holding 1 hp Sprinkler Pump with timer drawing water from the Middlefork of the Payette. Distributes water via two hose pipes to above ground sprinklers per original application.





# Delivery System Diagram



## Beneficial Use Field Exam

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## Beneficial Use Field Report

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