

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 65-22835

Exam Date: 5/20/2014

1. Current Owner: EDWARD S WOODS
16 APPLE WOOD DR
GARDEN VALLEY ID 83622
(208)462-6907

And/Or

JULIA E WOODS
16 APPLE WOOD DR
GARDEN VALLEY ID 83622
(208)462-6907

2. Accompanied by: Edward Woods
Phone No: Same
Address: Same
Relationship to Permit Holder: Owner's

3. SOURCE

MIDDLE FORK PAYETTE RIVER

TRIBUTARY

PAYETTE RIVER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 65-22307
2. Other water rights with the same point of diversion: None

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

MIDDLE FORK PAYETTE RIVER

SW1/4NE1/4

Sec. 23, Twp 10N, Rge 04E, B.M.

BOISE County

Method of Determination: Arc Map (Aerial Photo)

2.

PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	
10N	04E	23			1.0														1.0

Total Acres: 1

Method of Determination: Arc Map (Aerial Photo); Tax Lots.

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.

<u>Well or Diversion</u> <u>ID No.*</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Pump Serial No. or Discharge</u> <u>Size</u>
N/A	A.O. Smith	1.5	Unknown	Berkeley	2'

*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

1.

<u>Measurement</u> <u>Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>
N/A						

2. Measurements: No field measurement. Operating gauge pressure of 48 psi.

E. FLOW CALCULATIONS

_____ Additional Computation Sheets Attached

Measured Method: (Theoretical Horsepower Equation)

$$Q = 8.8 \times 0.7 \times 1.5/30 + (2.31 \times 48) = 0.07 \text{ cfs}$$

$$Q(\text{theoretical}) = 0.07 \text{ cfs} > 0.02 \text{ cfs } Q(\text{permit})$$

$$HP = 1.5$$

$$Z = 30' \text{ (Estimated)}$$

$$P = 48 \text{ psi (Gauge)}$$

Appears that the current pumping system can attain the permit diversion rate of 0.02 cfs.

Recommend the permit diversion rate of 0.02 cfs.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 1.0 \times 3.5 = 3.5 \text{ AFA}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.02 \times 231 \times 1.9835 = 9.2 \text{ AFA}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 3.5 \text{ AFA}$$

2. Volume Calculations for Other Uses: N/A

G. NARRATIVE/REMARKS/COMMENTS**WATER SUPPLY SYSTEM:**

A 1 ½-hp centrifugal pump diverts water from the Middle Fork of the Payette River for irrigation of 1.0 acre of field, lawn, and landscaping. The remaining portion of the right holder's property is irrigated by natural seepage and drainage from an unknown source, and is therefore not irrigated. The river irrigation system is the right holder's supplemental irrigation system. The primary irrigation water supply is from a 4" supply line from Lightning Creek.

IRRIGATION SYSTEM:

The right holder's sprinkler irrigate approximately 1.0 acre of field, lawn, and landscaping with 2" steel hand lines. The right holder's operate 2 – 3 high impact rotary sprinklers per setting. Each sprinkler has 1/8" nozzles. The sprinkler riser pipe on the hand lines contain a ball valve, which allows the right holder's to isolate sprinkler operation.

OVERLAP ANALYSIS:

Point of Diversion: There are no point of diversion overlaps from the Middle Fork of the Payette River for Water Right Permit No. 65-22835.

Place of Use: Water Right Permit No. 65-22835 and Water Right 65-22307 have overlapping places of use. The source of water for Water Right 65-22307 is Lightning Creek.

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

RATE &/OR STORAGE RECOMMENDED FOR LICENSING

Description	Rate of Flow (cfs)		Storage (af)
Permit Amount	0.02	&/or	N/A
Beneficial Use Limit	0.02	&/or	N/A
System Measurement	0.07(theoretical)	&/or	N/A
Proof Fee Amount	0.20	&/or	N/A
Recommended Amount	0.02	&/or	N/A

H. RECOMMENDATIONS

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
IRRIGATION	03/15 to 10/31	0.020 CFS	3.5 AFA
	<u>Totals:</u>	0.020 CFS	3.5 AFA

2. Recommended Amendments

___ Change P.D. as reflected above ___ Add P.D. as reflected above X None

___ Change P.U. as reflected above ___ Add P.U. as reflected above ___ Other

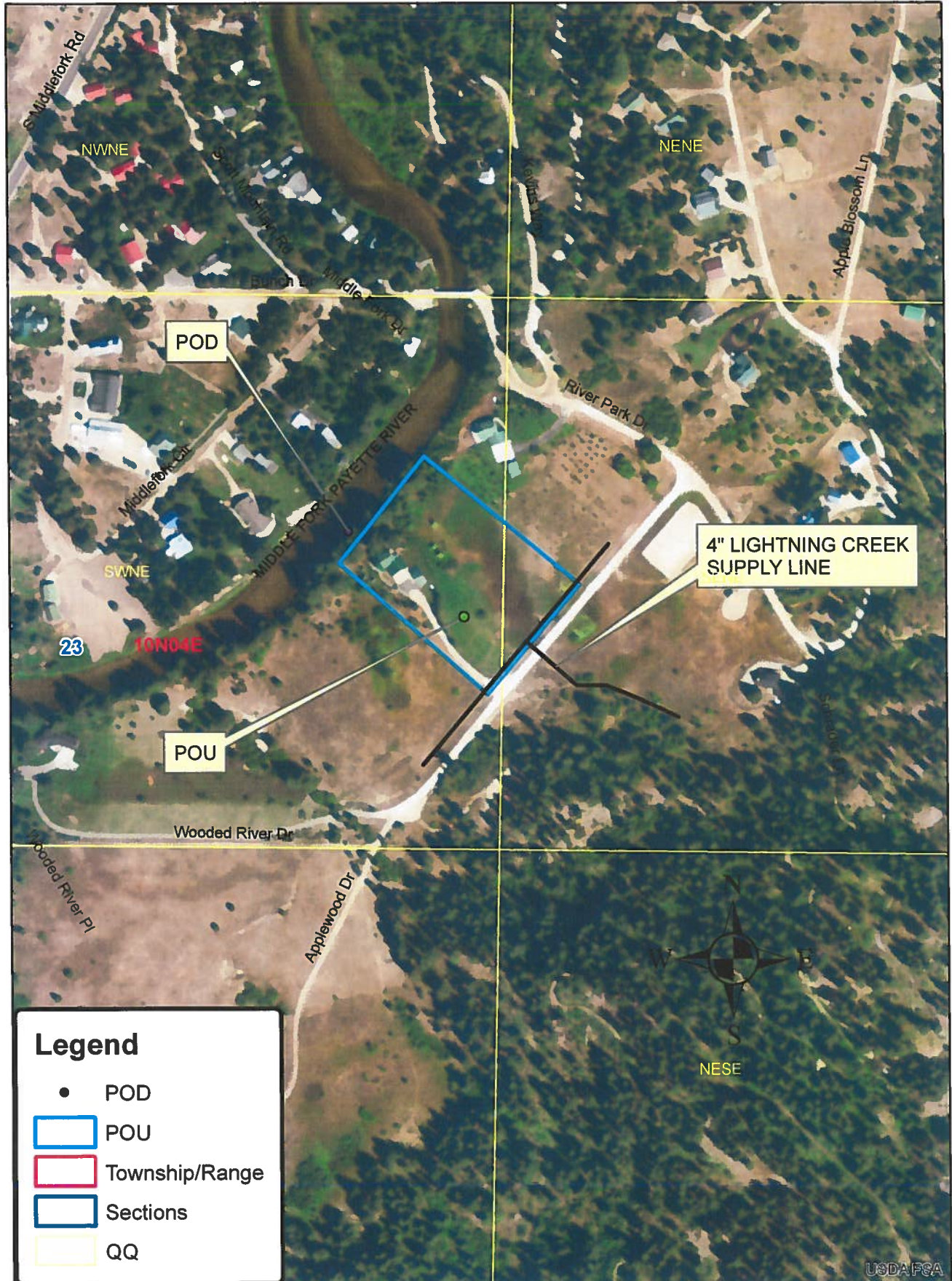
I. AUTHENTICATION

Field Examiner's Name Rick Collingwood Date 6/27/14

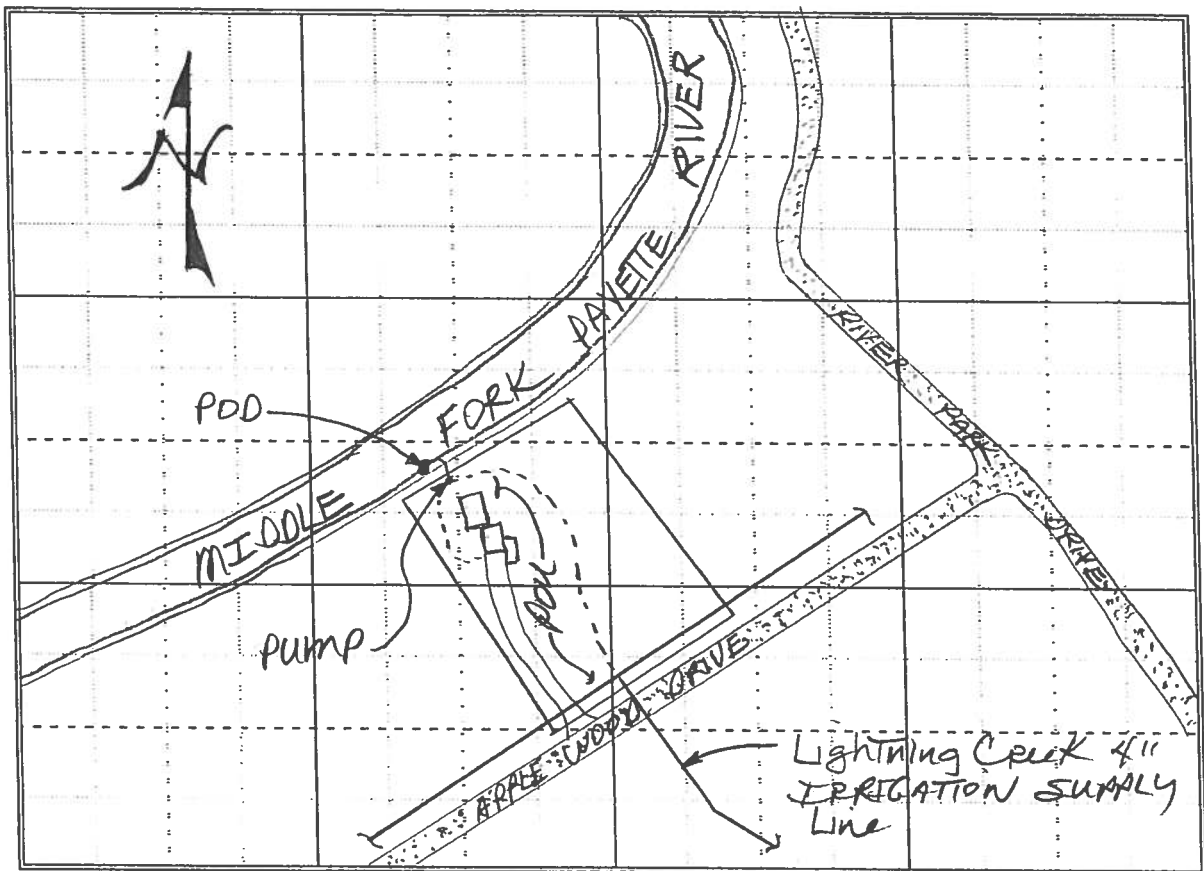
Reviewer _____ Date _____

65-22835

AERIAL PHOTO - 2011



3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe diameter (inside), as applicable. Use the space provided or ☐ see attached.



Scale: 1" = NTS

- ☐ Copy of USGS Quadrangle attached showing location(s) of point(s) of diversion and place(s) of use (required)
☒ Aerial photo attached (required for irrigation of 10+ acres)
☒ Photo of diversion and system attached

FIELD EXAM PHOTOS

Water Right Permit: 65-22835

Field Exam Date: 6-3-14

PLS: SW1/4, NE1/4 Section 23, T.10N, R.04E

Field Examiner: RC



Point of Diversion: View southwesterly of the 4" PVC perforated intake pipe and the 2 ½" flexible suction line near the east bank of the Middle Fork of the Payette River.



View westerly of the 2 ½" flexible suction line from the river to the Berkeley centrifugal pump on the river bank.



View northerly of the Berkeley centrifugal pump next to the steps. Water is discharged through 2" PVC main line to the 2" handlines. The river pump provides supplemental irrigation water when the Lightning Creek water system is not in operation.



Place of Use: View westerly of the 2" hand line and riser. The riser is located on the 4" Lightning Creek supply line. The right holder operates 2 – 3 sprinklers per set.



Place of Use: View easterly of the 2" hand line and the 2" water supply line. Each sprinkler riser contains a ball valve to allow the right holder to isolate which sprinklers to operate during a set.



State of Idaho

DEPARTMENT OF WATER RESOURCES

Western Region, 2735 Airport Way, Boise, Idaho 83705-5082

PHONE: (208) 334-2190 FAX: (208) 334-2348 www.idwr.idaho.gov

C.L. "BUTCH" OTTER, Governor
April 30, 2014

GARY SPACKMAN, Director

Edward S. & Julia E. Woods
16 Apple Wood Drive
Garden Valley, ID 83622

RE: Scheduling Field Exam for Water Right Permit No. 65-22835

Dear Permit Holder:

The Idaho Department of Water Resources (IDWR) is planning to conduct water right field examinations in the vicinity of the above-referenced permit **during the week of May 19**. An examination is needed to verify water use(s) developed under the permit in order to issue a water right license.

Your permit authorizes the diversion of surface water from the Middle Fork of the Payette River for irrigation. If you developed a beneficial use of water and still own the place of use property identified in the permit, please contact me at your earliest convenience to schedule an examination.

If you developed a beneficial use of water under the permit but no longer own the place of use property, please use the enclosed Assignment of Permit form (\$25 fee). This will allow IDWR to work with the new permit owner through the water right licensure process.

A water right license cannot be issued if beneficial use of water was not developed or if use was developed but abandoned. If either of these cases has occurred, please relinquish the permit by using the enclosed Relinquishment of Permit form (no fee required). The permit will be voided if a relinquishment form is not submitted within thirty (30) days. If you no longer own the property and do not assign or relinquish your permit, IDWR will work with the current property owner to issue a license or to void the permit.

Please contact me to schedule a field examination for a day and time that is convenient for you. **Please call me at (208) 334-2190 by May 14 to conduct the field exam during the week of May 19.** If there is a problem with scheduling or conducting the field examination at this time, please let me know so we can reschedule.

Please call me at (208) 334-2190 if you have any questions. I appreciate your attention to this matter and look forward to hearing from you.

Sincerely,

A handwritten signature in black ink that reads "Rick Collingwood". The signature is written in a cursive, flowing style.

Rick Collingwood, P.E.
Staff Engineer

Enclosure: Relinquishment and Assignment of Permit Forms