

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 65-13957

Exam Date: 6/13/2014

1. Current Owner: TERRY J. GREENE
2805 POLELINE ROAD EAST
TWIN FALLS ID 83301
(208)731-4372

AND/OR

SUE E. GREENE
2805 POLELINE ROAD EAST
TWIN FALLS ID 83301
(208)731-4372

2. Accompanied by: Terry Greene

Phone No: Same

Address: Same

Relationship to Permit Holder: Owner

3. SOURCE

MIDDLE FORK PAYETTE RIVER

TRIBUTARY

PAYETTE RIVER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: None
2. Other water rights with the same point of diversion: 65-13496

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

MIDDLE FORK PAYETTE RIVER SE1/4NW1/4
BOISE County

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

Method of Determination: Arc Map (Aerial Photo)

2.

PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
10N	04E	23								0.8									0.8

Total Acres: 0.8

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 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 Size</u>
N/A	Baldor	5.0	Unknown	Sta Rite	2"

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

D. FLOW MEASUREMENTS

1.

<u>Measurement 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. Gauge operating pressure of 45 psi.

E. FLOW CALCULATIONS

____ Additional Computation Sheets Attached

Measured Method: (Theoretical Horsepower Equation)

$$Q = 8.8 \times 0.7 \times 5/20 + (2.31 \times 45) = 30.80/123.95 = 0.25 \text{ cfs}$$

$$Q(\text{sprinkler}) = 24 \text{ sprinklers} \times 7.1 \text{ gpm} = 170.4 \text{ gpm} \sim 0.38 \text{ cfs}$$

$$HP = 5$$

$$Z = 20' \text{ (Estimated)}$$

$$P = 45 \text{ psi (Gauge)}$$

$$Q(\text{theoretical}) = 0.25 \text{ cfs} < 0.38 \text{ cfs } Q(\text{sprinkler}) > 0.03 \text{ cfs } Q(\text{permit})$$

Appears that the current pumping system can attain the permit diversion rate of 0.03 cfs.

However, since only 0.8 acres is irrigated, recommend a diversion rate of 0.02 cfs.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 0.80 \times 3.5 \text{ AF} = 2.8 \text{ AFA}$$

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

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 2.8 \text{ AFA}$$

2. Volume Calculations for Other Uses: N/A

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

A 5-hp centrifugal pump diverts water from the Middle Fork of the Payette River through a 4" PVC perforated manifold and a 3" flexible hose suction line. The 3" flexible hose suction line reduces to a 2" PVC suction line. The water is discharged to a filter prior to discharging to the 2" PVC irrigation main line. The water is used to irrigate approximately 0.8 acres of lawn and landscaping located within Lot 3 of the Wooded River Subdivision. The centrifugal pump and controls are located in a garage/shop.

IRRIGATION SYSTEM:

The pressurized irrigation system is comprised of five (5) stations. The five (5) stations irrigate lawn and landscaping in Lot 3 and Lot 4. Each station operates 24 – 27 Rain Bird Maxi Paw rotary impact sprinklers. Each sprinkler contains a 'tan' nozzle. According to the Rain Bird nozzle selection chart, the operating pressure of 45 psi provides a maximum flow rate of 7.1 gpm for each sprinkler. Each irrigation station operates for 15 minutes.

OVERLAP ANALYSIS:

Point of Diversion: Water Right Permit No. 65-13957 and Water Right 65-13496 have the same point of diversion and same pumping system for the irrigation of Lot 3 and Lot 4.

Place of Use: There are no place of use overlaps for Water Right Permit No. 65-13957.

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

RATE &/OR STORAGE RECOMMENDED FOR LICENSING

Description	Rate of Flow (cfs)		Storage (af)
Permit Amount	0.03	&/or	N/A
Beneficial Use Limit	0.02	&/or	N/A
System Measurement	0.25 (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	3/15 to 10/31	0.020 CFS	2.80 AFA
<u>Totals:</u>		0.020 CFS	2.80 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

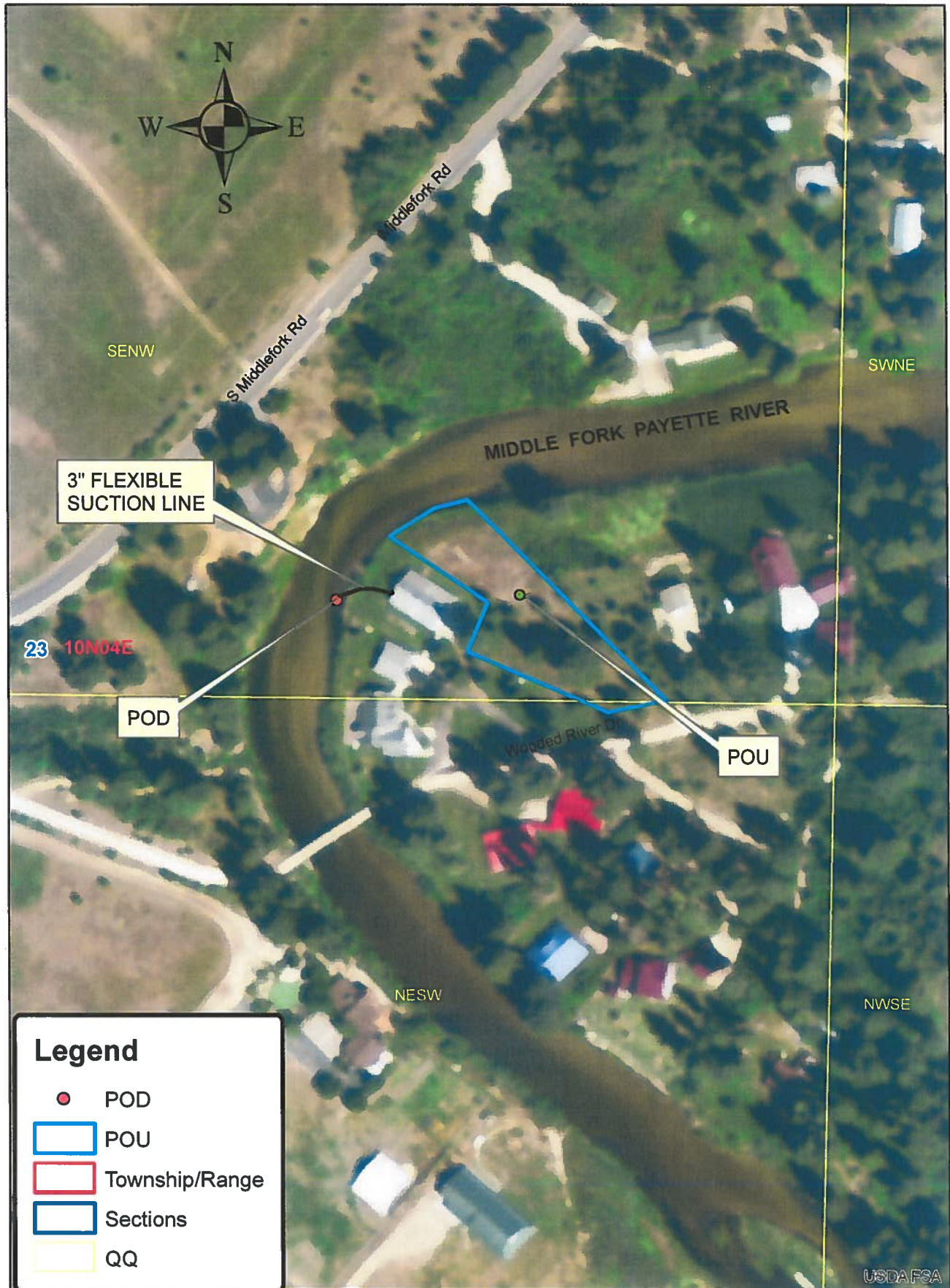
I. AUTHENTICATION

Field Examiner's Name Rick Collingwood Date 7/25/14

Reviewer _____ Date _____

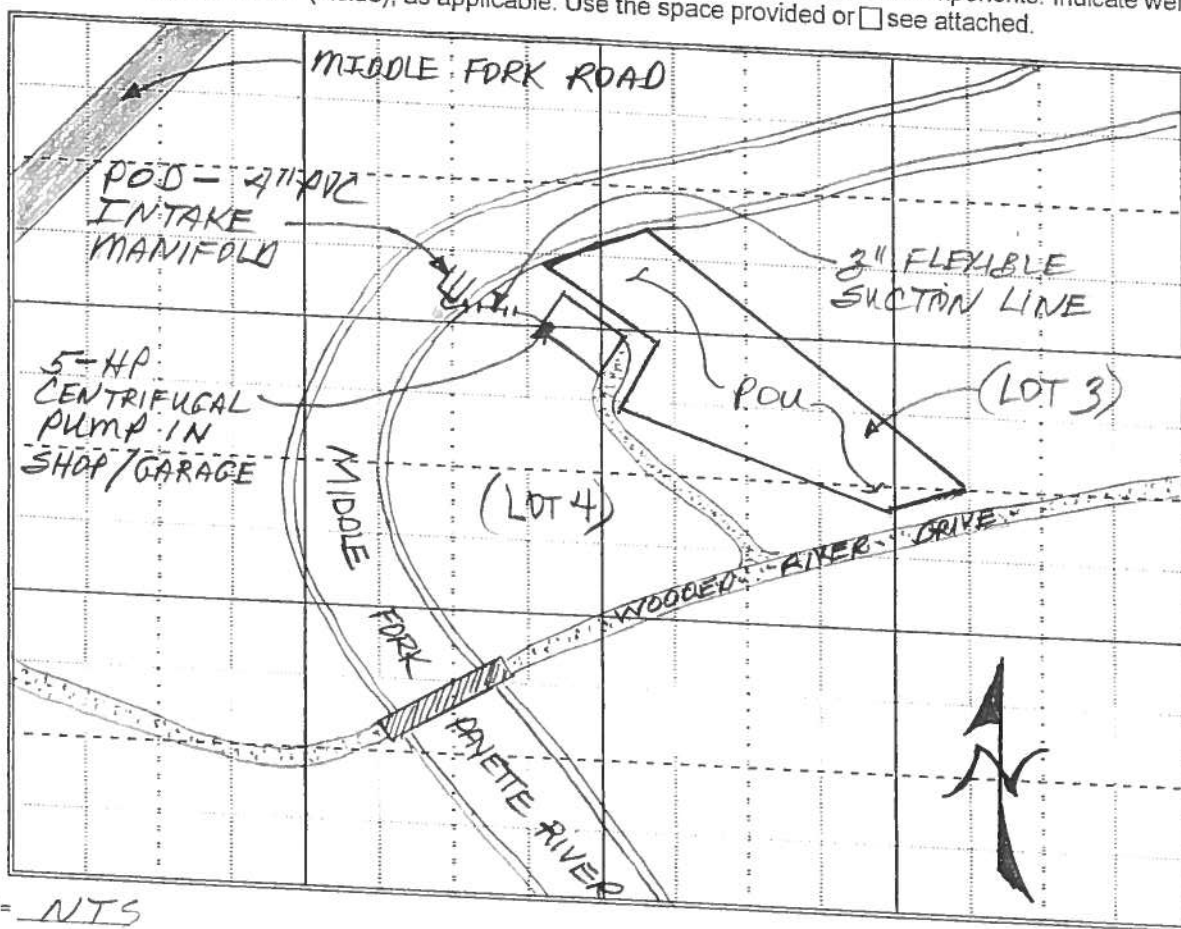
65-13957

AERIAL PHOTO - 2011



0 55 110 220 330 440
Feet

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: 65-13957

Field Exam Date: 6-13-14

PLS: SE1/4, NW1/4 Section 23, T.10N, R.04E

Field Examiner: RC



Point of Diversion: View westerly of the 4" PVC perforated manifold in the Middle Fork of the Payette River. Water is diverted through a 3" flexible suction line by a 5-hp centrifugal pump located in the garage/shop.



View of the 5-hp centrifugal pump in the garage/shop. Water is conveyed through the 4" PVC suction line to a filter prior to discharging through a 2" PVC irrigation main line.



Place of Use: View southeasterly of the right holder's lawn and landscaping being irrigated by Rain Bird Maxi-Paw rotary sprinklers.



State of Idaho

DEPARTMENT OF WATER RESOURCES

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

Phone: (208) 334-2190 • Fax: (208) 334-2348 • Web Site: www.idwr.idaho.gov

C. L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Interim Director

June 17, 2013

Riverside Investments, LLC
2805 E. Poleline Road
Twin Falls, ID 83301

Re: Water Right Permit No. 65-13957

I am writing to inform you of an existing water right permit which exists on your property at 20 Wooded River Drive, Garden Valley, Idaho. A water right permit is not a water right, but a permit issued by the Department to allow the beneficial use of water as requested by the applicant. The beneficial use for the water right permit is to divert surface water from the Middle Fork of the Payette River for irrigation of 1.0 acre.

The water right permit was issued to the previous owners, Bob and Shelly Albrecht. However, the field exam scheduling letter sent to Bob and Shelly Albrecht was returned to our office. Upon further investigation, I discovered that Riverside Investments, LLC is the current owner of the property located at 20 Wooded River Drive in Garden Valley, Idaho.

In order to proceed with obtaining a water right for the irrigation system on your property, there are two options available which transfers the water right ownership to you. The first option would be to have the Albrecht's assign the permit to you. If you have contact information for the Albrecht's, we can submit an 'Assignment of Permit' form to them for execution. The process fee for an 'Assignment of Permit' is \$25.00. If contact information is not attainable for the Albrecht's, the next option would be to proceed with obtaining the water right under the Albrecht's name. Upon issuance of the water right, you will then need to execute a 'Change of Ownership'. This will officially transfer the water right ownership to you. The process fee for the 'Change of Ownership' is \$25.00.

The next step which needs to take place to proceed with the issuance of the water right is to conduct a field examination. The field examination is required to verify that the permit information is accurate, and if possible to obtain a water flow measurement. If the surface water is no longer being put to beneficial use for irrigation of 1.0 acre, please let me know and we will proceed with relinquishment or voidance of the water right permit. However, if you are beneficially using the surface water for irrigation, you are required to obtain a water right from our Department.

If you have any questions, you can contact me at the Idaho Department of Water Resources Western Region Office at (208) 334-2190, or by e-mail at rick.collingwood@idwr.idaho.gov.

Sincerely,

A handwritten signature in black ink that reads "Rick Collingwood". The signature is written in a cursive style with a large, looping "R" and "C".

Rick Collingwood, P.E.
Water Resources Agent, Sr.

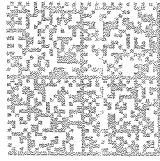
IDAHO DEPARTMENT OF WATER RESOURCES

WESTERN REGION

2735 Airport Way
Boise, Idaho 83705-5082

RETURN SERVICE REQUESTED

PRESORTED
FIRST CLASS



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0008003708 JUN 12 2013
MAILED FROM ZIP CODE 83702

RECEIVED

JUN 17 2013

WATER RESOURCES
WESTERN REGION

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0606/14/13

RETURN TO SENDER
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BC: 83705508235 *0395-03203-14-27



83705508235



State of Idaho

DEPARTMENT OF WATER RESOURCES

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

Phone: (208) 334-2190 • Fax: (208) 334-2348 • Web Site: www.idwr.idaho.gov

June 12, 2013

C. L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Interim Director

Bob L. & Shelly R. Albrecht
20 Wooded River Drive
Garden Valley, ID 83622

RE: Scheduling Field Exam for Water Right Permit No. 65-13957

We are planning to **conduct water right field examinations** in the vicinity of the above-referenced permit **during the week of June 24, 2013**. An examination is needed to verify your water use in order to issue a water right license.

Please be advised that you will need to operate your system under normal operating conditions during the examination. The permit authorizes the diversion of 0.03 cfs of surface water from the Middle Fork of the Payette River for irrigation of 1.0 acre.

In order to conduct your exam as efficiently as possible, we ask that you call this office to schedule a day and time convenient for you. **Please call me at 208-334-2190 by June 21, 2013, to conduct the exam during the week of June 24, 2013.** If there is a problem with scheduling or conducting the examination at this time, please let me know so we can reschedule or make other arrangements.

I appreciate your attention to this matter and I look forward to hearing from you.

Sincerely,

Rick Collingwood, P.E.
Water Resource Agent, Sr.