

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 65-13691

Exam Date: 9/22/2014

1. Current Owner: TERRILYN H WRIGHT
1414 E COVEY RUN COURT
EAGLE ID 83616
(208)939-2525

AND

ROBERT A WRIGHT
1414 E COVEY RUN COURT
EAGLE ID 83616
(208)939-2525

2. Accompanied by: Bob Wright & Conrad Crazler
Phone No: Same
Address: Same
Relationship to Permit Holder: Owner & Irrigation Operator

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: None

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

MIDDLE FORK PAYETTE RIVER

SE1/4SW1/4

Sec. 13, 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
10N	04E	13	<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>	
														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 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	Unknown	1.5	01G18 03-0729	Goulds	H0175043; 1 1/4"

*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. Unable to measure operating pressure of MaxiPaw sprinklers. Operating gauge pressure of 50 psi.

E. FLOW CALCULATIONS

Additional Computation Sheets Attached

Measured Method: (Theoretical Horsepower Equation)

$$Q = 8.8 \times 0.7 \times 1.5/100 + (2.31 \times 50) = 9.24/215.50 = 0.04 \text{ cfs}$$

$$Q(\text{theoretical}) = 0.04 \text{ cfs} = Q(\text{permit})$$

$$HP = 1.5$$

$$Z = 100' \text{ (Estimated)}$$

$$P = 50 \text{ psi (Gauge)}$$

Appears that the current pumping system can attain the permit diversion rate of 0.04 cfs. However, Condition No.3 states that this right combined with all other rights shall provide no more than 0.03 cfs per acre. Since only 1.0 acre is irrigated, the maximum allowable diversion rate is 0.03 cfs. Recommend a diversion rate of 0.03 cfs.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

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

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.03 \times 231 \times 1.9835 = 13.7 \text{ AFA}$$

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

2. Volume Calculations for Other Uses: N/A

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

A 1.5 horsepower submersible pump diverts water from the Middle Fork of the Payette River for irrigation. The submersible pump is located in a perforated 30" ADS pipe section/sump in the river. The sump has a steel lid and is buried in river rock near the river bank. Water is diverted to a control box through a short section of 1 1/4" PVC pipe. A 1 1/2" PVC irrigation main line conveys water up the river bank to a pressurized irrigation system.

Pressurized Irrigation System:

The right holder's pressurized irrigation system is comprised of four (4) stations. Each station contains 4 – 6 Rain Bird MaxiPaw sprinklers. According to the irrigation operator, each sprinkler has a discharge rate of 2.8 gpm and a 40' radius coverage.

OVERLAP ANALYSIS:

Point of Diversion: There are no point of diversion overlaps for Water Right Permit No. 65-13691.

Place of Use: There are no place of use overlaps for Water Right Permit No. 65-13691.

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

CONDITION NO. 5 (029) – The right holder shall comply with the all fish screening requirements of the Idaho Department of Fish and Game. The screened pump intake is located in a 30" buried perforated ADS pipe sump and the sump is buried in river cobbles. The right holder is in compliance with Condition No.5.

CONDITION NO. 6 – Prior to diversion of water under this right, the right holder shall install a lockable device. The power source/switch to the irrigation pump is located in a locked utility building on top of the river bank. The right holder is in compliance with Condition No.6.

RATE &/OR STORAGE RECOMMENDED FOR LICENSING

Description	Rate of Flow (cfs)		Storage (af)
Permit Amount	0.04	&/or	N/A
Beneficial Use Limit	0.03	&/or	N/A
System Measurement	0.04(theoretical)	&/or	N/A
Proof Fee Amount	0.20	&/or	N/A
Recommended Amount	0.03	&/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	4/15 to 10/15	0.030 CFS	3.5 AFA
	<u>Totals:</u>	0.030 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

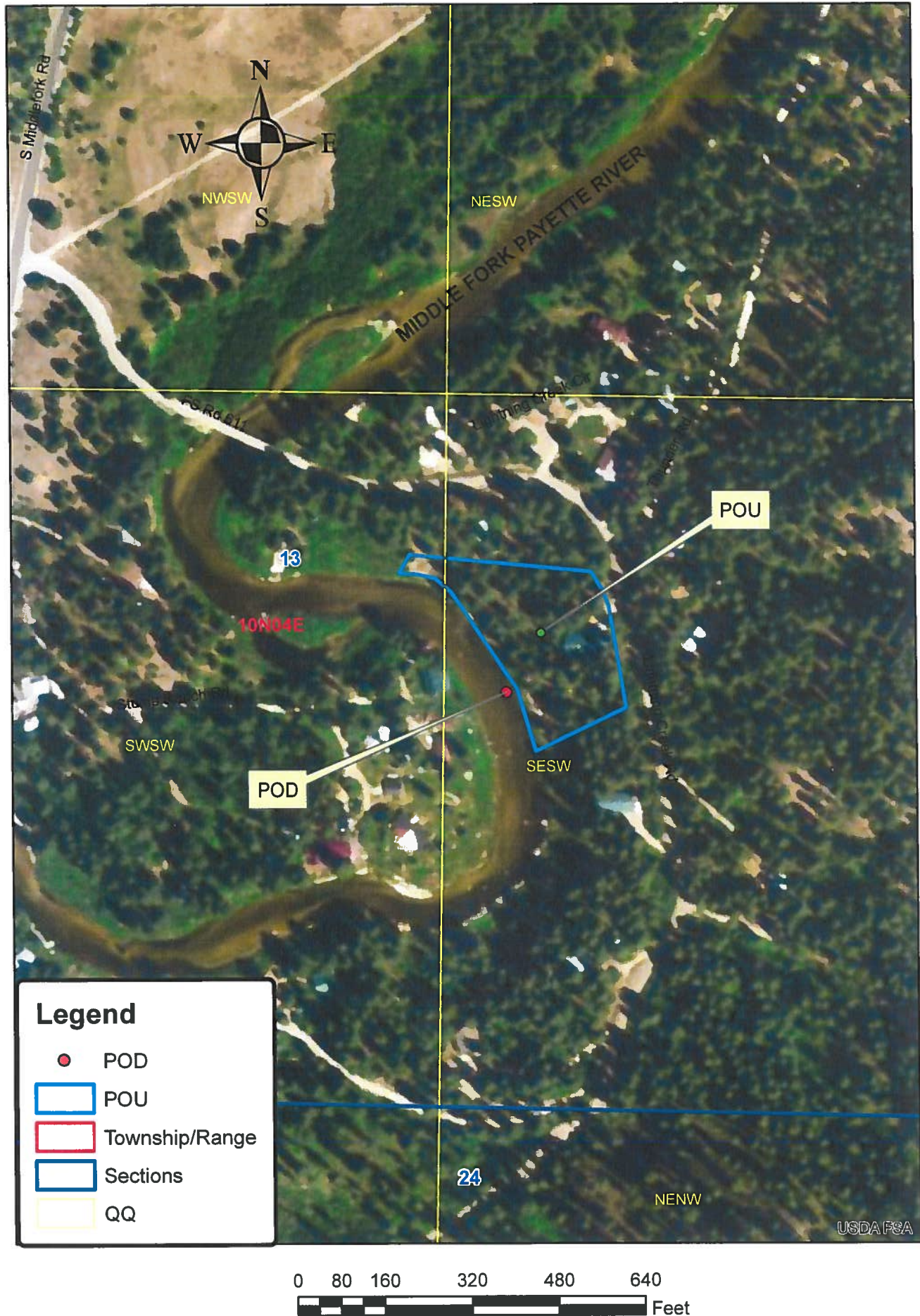
I. AUTHENTICATION

Field Examiner's Name Rick Collingwood Date 10/31/14

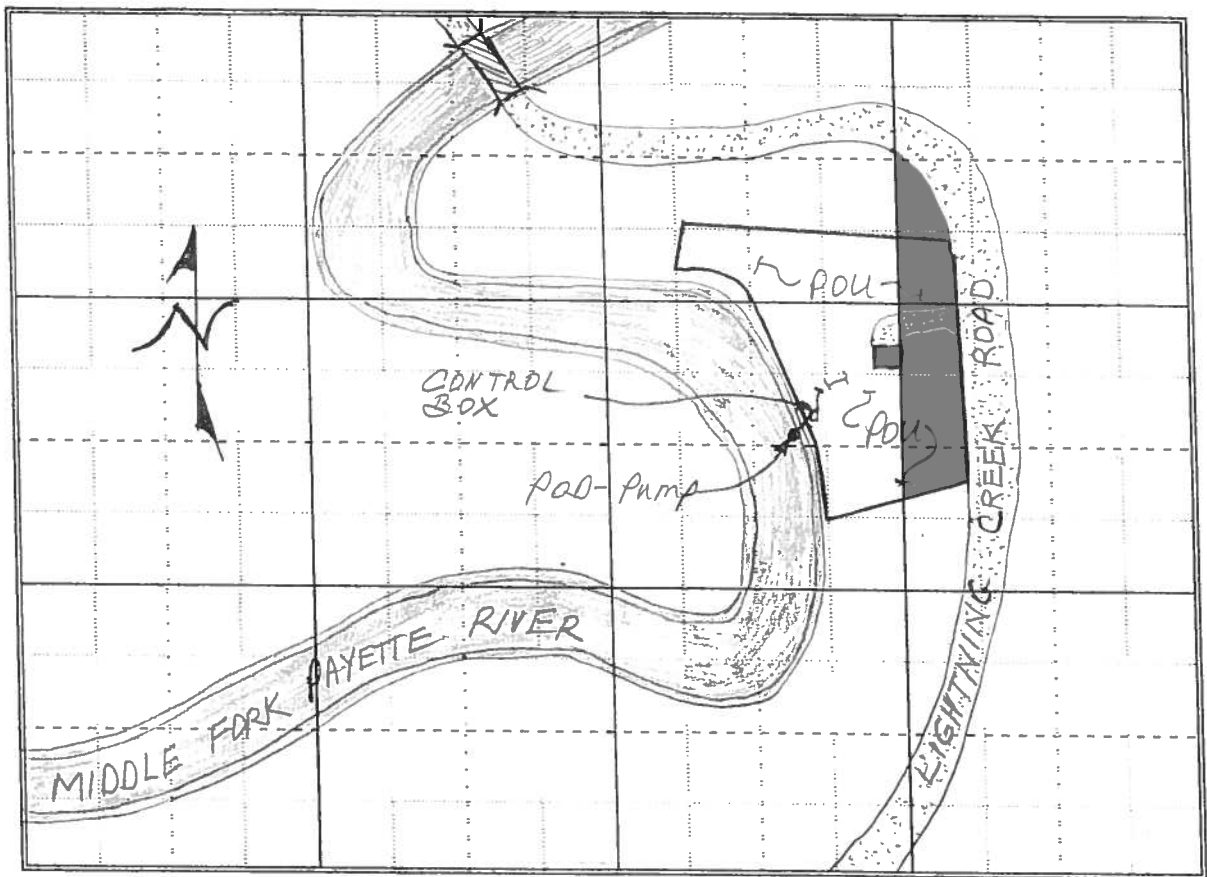
Reviewer _____ Date _____

65-13691

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

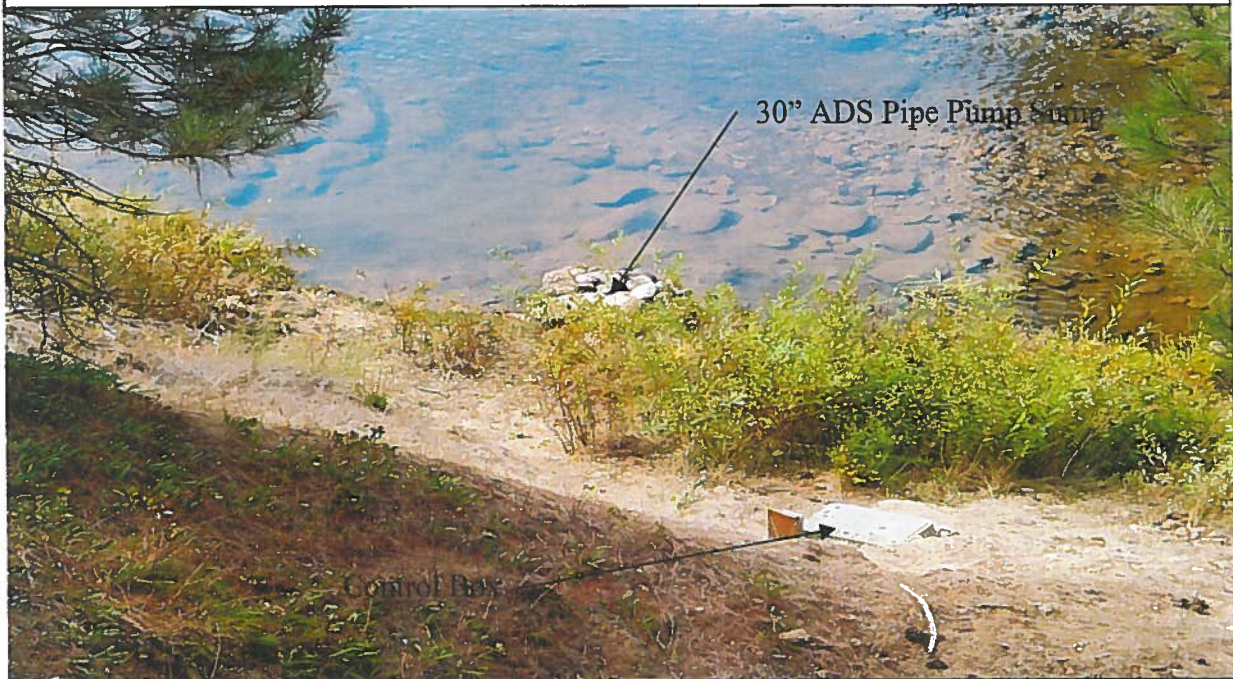
FIELD EXAM PHOTOS

Water Right Permit: 65-13691

Field Exam Date: 9-22-14

PLS: SE1/4, SW1/4 Section 13, T.10N, R.04E

Field Examiner: RC



Point of Diversion: View southwesterly of the rock covering the steel lid of a perforated 30" ADS Pipe sump in the Middle Fork of the Payette River. A 1 ½-hp submersible pump in the sump discharges water through a short section of 1 ¼" PVC to the control box shown on the river bank. Water at the control box is discharged through 1 ½" PVC irrigation main line to a pressurized irrigation system at the top of the river bank.



Place of Use: View northwesterly of the operation of the pressurized irrigation system atop the river bank.



Place of Use: View northeasterly of the native trees and bushes irrigated by the pressurized irrigation system. The right holder has planted additional species of plants within the natural vegetation.



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

GARY SPACKMAN, Director

October 23, 2014

Robert & Terrilyn Wright
1414 E. Covey Run Court
Eagle, ID 83616

RE: Change of Ownership for Water Right Permit No. 65-13691

Dear Bob & Terrilyn:

I am currently preparing my report for your Water Right Permit No. 65-13691, and I noticed that your permit lists you as the owners, not the Robert & Terrilyn Wright Family Living Trust. If you wish to transfer the water right ownership to the Robert & Terrilyn Wright Family Living Trust, please complete the enclosed a copy of a 'Notice of Change in Water Right Ownership' form and instructions for your use. I have also enclosed a copy of an aerial photo for your use.

If you have any questions, you can contact me at 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 fluid and cursive, with the first name "Rick" and last name "Collingwood" clearly distinguishable.

Rick Collingwood, P.E.
Staff Engineer



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

C.L. "BUTCH" OTTER, Governor
April 28, 2014

GARY SPACKMAN, Director

Robert & Terrilyn Wright Family Living Trust
1414 E. Covey Run Court
Eagle, ID 83616

RE: Scheduling Field Exam for Water Right Permit No. 65-13691

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 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. In either of these cases have 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,


Rick Collingwood, P.E.
Staff Engineer

Enclosure: Relinquishment and Assignment of Permit Forms



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

April 19, 2013

Robert A. & Terrilyn H. Wright
29 Lightning Creek Road
Garden Valley, ID 83622

RE: Scheduling Field Exam for Water Right Permit No. 65-13691

We are planning to **conduct water right field examinations** in the vicinity of the above-referenced permit **during the week of May 13, 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 0.04 cfs of water from the Middle Fork of the Payette River for irrigation of 2.0 acres.

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 May 10, 2013, to conduct the exam during the week of May 13, 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,

A handwritten signature in black ink, reading "Rick Collingwood". The signature is fluid and cursive, with a large, sweeping loop at the end.

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



State of Idaho

DEPARTMENT OF WATER RESOURCES

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C. L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Interim Director

April 12, 2013

Robert A. & Terrilyn H. Wright
651 Los Luceros
Eagle, ID 83616

RE: Scheduling Field Exam for Water Right Permit No. 65-13691

We are planning to **conduct water right field examinations** in the vicinity of the above-referenced permit **during the week of May 13, 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 0.04 cfs of water from the Middle Fork of the Payette River for irrigation of 2.0 acres.

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

Sincerely,

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