

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 65-22351

Exam Date: 10/19/2012

1. Current Owner: RICHARD J MC KENNA
46 RIVER RANCH RD
GARDEN VALLEY ID 83622
(208)462-1996
2. Accompanied by: Richard McKenna
Phone No: Same
Address: Same
Relationship to Permit Holder:

3. **SOURCE**

MIDDLE FORK PAYETTE RIVER

TRIBUTARY

PAYETTE RIVER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 65-3222, 65-8290
2. Other water rights with the same point of diversion: 65-13929

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

MIDDLE FORK PAYETTE RIVER

NE1/4SW1/4

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									2.2			1.4					3.6
													L3						

Total Acres: 3.6

Method of Determination:

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		Unknown	(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. Irrigation system winterized. Intake removed from river.

E. FLOW CALCULATIONS

____ Additional Computation Sheets Attached

Measured Method: (Theoretical Horsepower Equation)

$$Q = 8.8 \times 0.7 \times 5/20 + (2.31 \times 40) = 30.8/112.4 = 0.27 \text{ cfs}$$

$$Q(\text{sprinklers}) = 40 \text{ sprinklers} \times 3.74 \text{ gpm} = 149.6 \text{ gpm} (0.33 \text{ cfs})$$

$$Q(\text{theoretical}) = 0.27 \text{ cfs} < 0.33 \text{ cfs } Q(\text{sprinklers}) > 0.15 \text{ cfs } Q(\text{permit})$$

$$HP = 5$$

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

$$P = 40 \text{ psi (Assumed)}$$

$$\text{No. Sprinklers} = 40$$

$$9/64" \text{ Heads @ } 40 \text{ psi}$$

Appears that the current pumping and sprinkler application systems are capable of attaining the permit diversion rate of 0.15 cfs. However, since the total irrigable area is 3.6 areas, not 5.0 acres as stated on the permit, recommend a diversion rate of 0.11 cfs.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 3.6 \times 3.5 = 12.6 \text{ AFA}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.11 \times 246 \times 1.9835 = 53.7 \text{ AFA}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 12.6 \text{ AFA}$$

2. Volume Calculations for Other Uses: N/A

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

A 5-hp pump diverts water through a 4" flexible hose. Water is discharged through a 4" PVC supply line for the irrigation of a pasture, lawn, landscaping, and gardens in Lot 17, Block 1, of the River Ranch Subdivision. This same water supply system provides irrigation water for Lots 2 and 19, Block 1, which are owned by Don Walker (Water Right Permit No. 65-13929). Water is conveyed in approximately 850 lineal feet of a 4" PVC supply line to the right holder's property. The 4" PVC supply line crosses Lot 2 and Lot 19 to reach the right holder's property.

IRRIGATION SYSTEM:

The right holder's irrigable land is comprised of approximately 0.30 acre of lawn, landscaping, and gardens adjacent to the home, and approximately 3.3 acres of pasture. The lawn, landscaping, and garden areas are irrigated by a mixture of pop-up and rotary sprinklers.

The pasture area is irrigated by seven 3" sprinkler land lines, which contain a total of 40 Rain Bird sprinklers. All sprinklers contain 9/64" sprinkler heads. A 4" PVC irrigation main line, which extends southerly from the home, contains seven 3" risers. The seven 3" risers and the seven 3" hand lines are connected by a short section of 3" flexible hose. The right holder irrigates twice a week for approximately nine (9) hours. All 40 Rain Bird sprinklers are in operation during the 9-hour irrigating cycle.

The primary source irrigation water for the right holder is the Pine Tree Ranch Irrigation Company, which provides irrigation water to the River Ranch Subdivision. The water supply system from the Middle Fork of the Payette River is a supplemental or backup source of water when water from the Pine Tree Ranch Irrigation Company is not available or is inadequate in which to meet the right holder's irrigation demands.

OVERLAP ANALYSIS:

Point of Diversion: Water Right Permit No. 65-22351 and Water Right Permit No. 65-13929 share the same point of diversion. The pump, mechanical equipment, and controls are owned by Don Walker, owner of Water Right Permit No. 65-13929.

Place of Use: Water Right's 65-3222 and 65-8290, are owned by PTR, Inc. The Pine Tree Ranch Irrigation Company, which diverts irrigation water from Scriver Creek, supplies irrigation water to the River Ranch Subdivision. A 6" supply line conveys irrigation water to the right holder's property two days a week.

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

CONDITION NO.2(01H) – Prior to diversion of water under this right, the right holder shall install a lockable device. The main power and control panel has a latch on the panel door which will accommodate a lockable device. The right holder has complied with Condition No.2.

RATE &/OR STORAGE RECOMMENDED FOR LICENSING

Description	Rate of Flow (cfs)		Storage (af)
Permit Amount	0.15	&/or	N/A
Beneficial Use Limit	0.15	&/or	N/A
System Measurement	0.27(theoretical)	&/or	N/A
Proof Fee Amount	0.20	&/or	N/A
Recommended Amount	0.11	&/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	0.110 CFS	12.6 AFA
<u>Totals:</u>		0.110 CFS	12.6 AFA

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
 ☐ Other

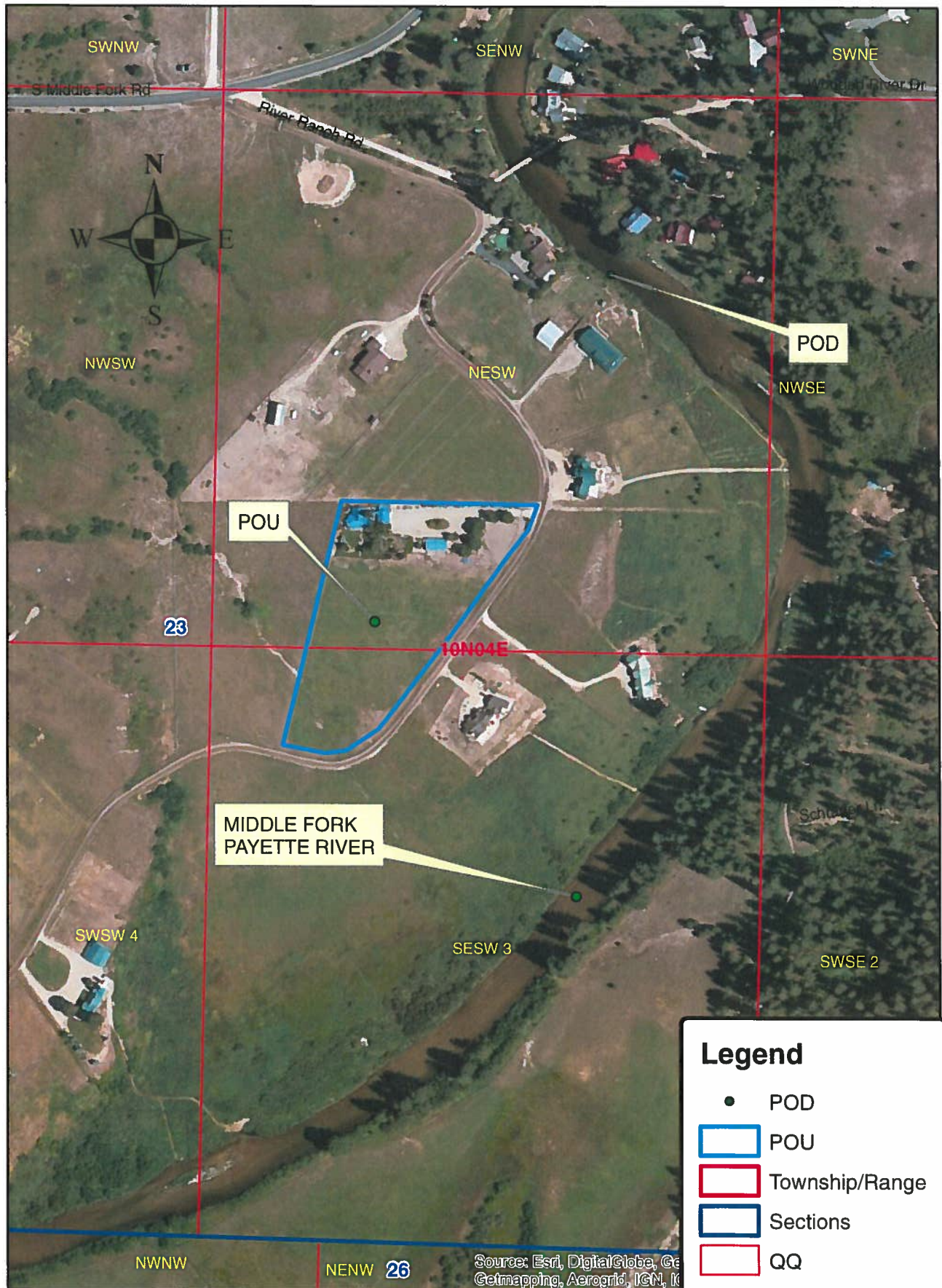
I. AUTHENTICATION

Field Examiner's Name Rick Collingwood Date 3/20/13

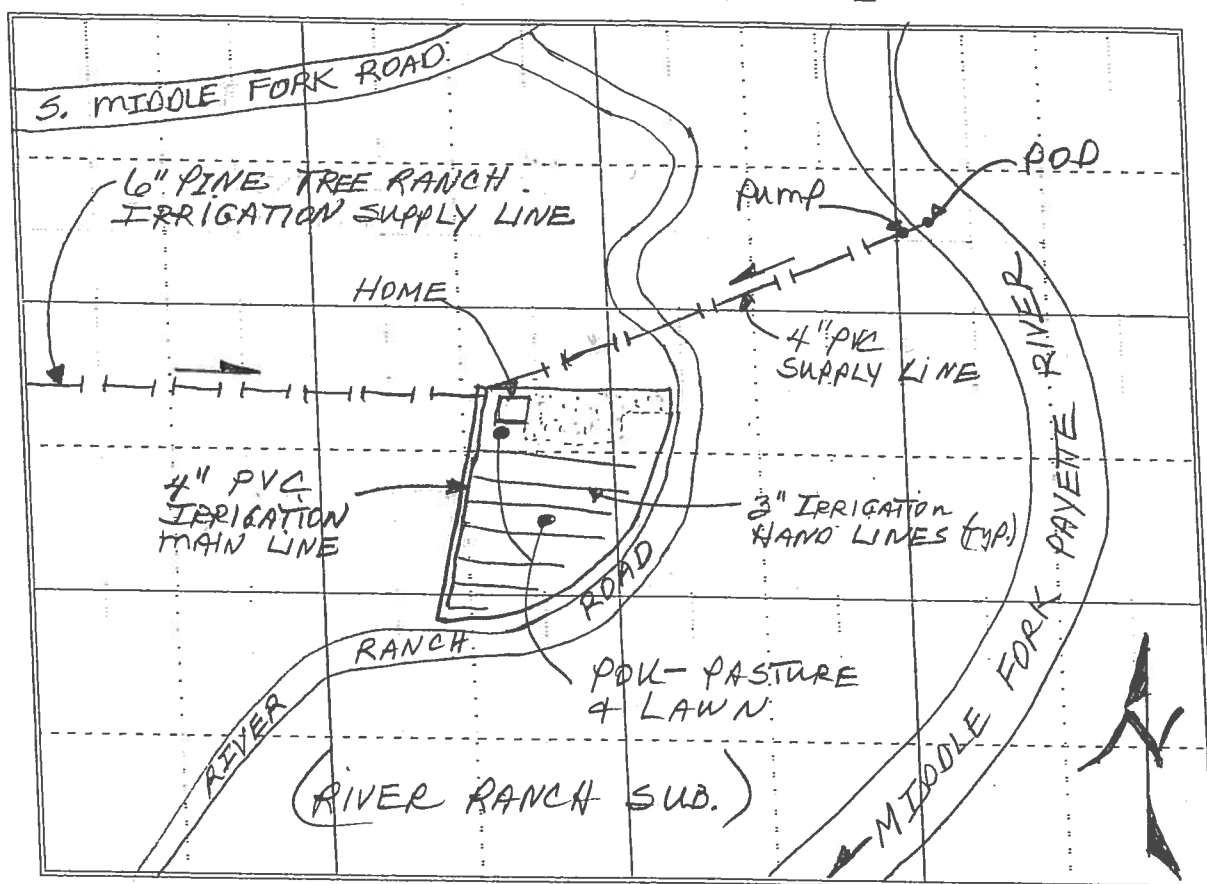
Reviewer _____ Date _____

65-22351

ESRI AERIAL PHOTO - 2012



- 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: 65-22351

Field Exam Date: 10-19-12

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

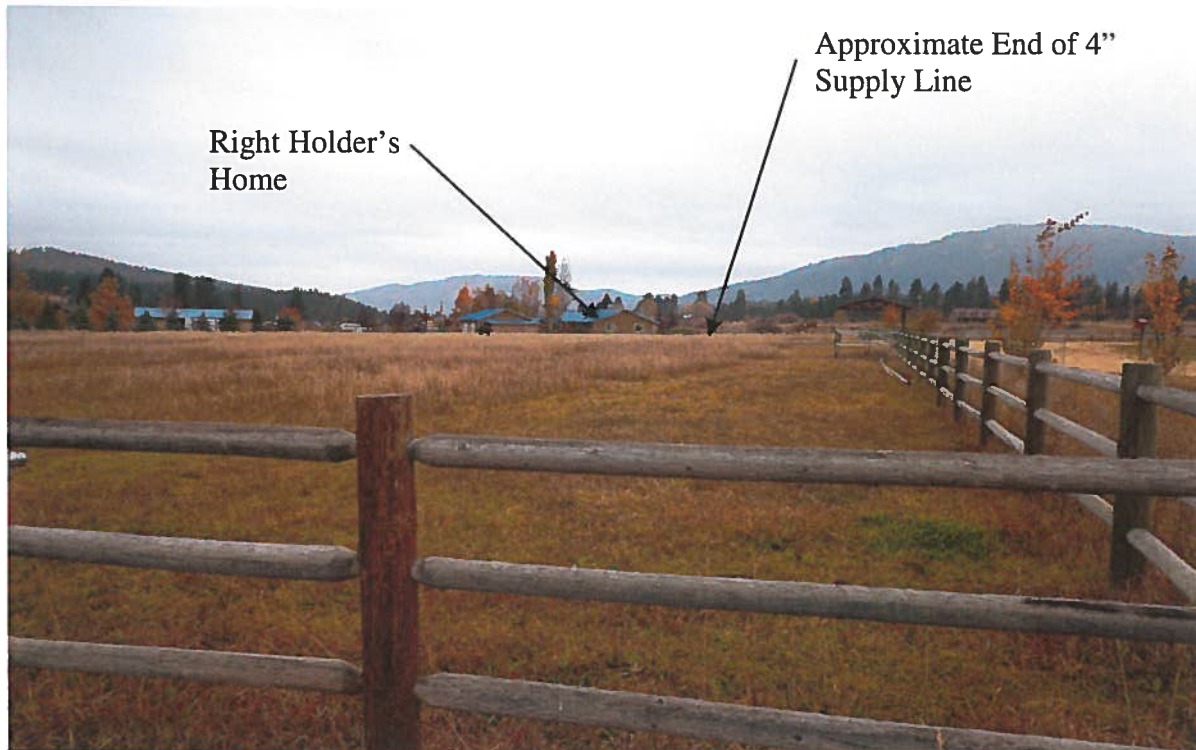
Field Examiner: RC



Point of Diversion: View of the 5-hp pump, owned by neighbor Don Walker, which diverts water from the Middle Fork of the Payette River for use by Don Walker and the right holder. Water is conveyed to the right holder's property to the west through approximately 850 lineal feet of 4" PVC pipe which extends through the Walker's property and the right holder's neighbors property to the north. The pump diverts water from the river through a short section of 4" flexible hose.



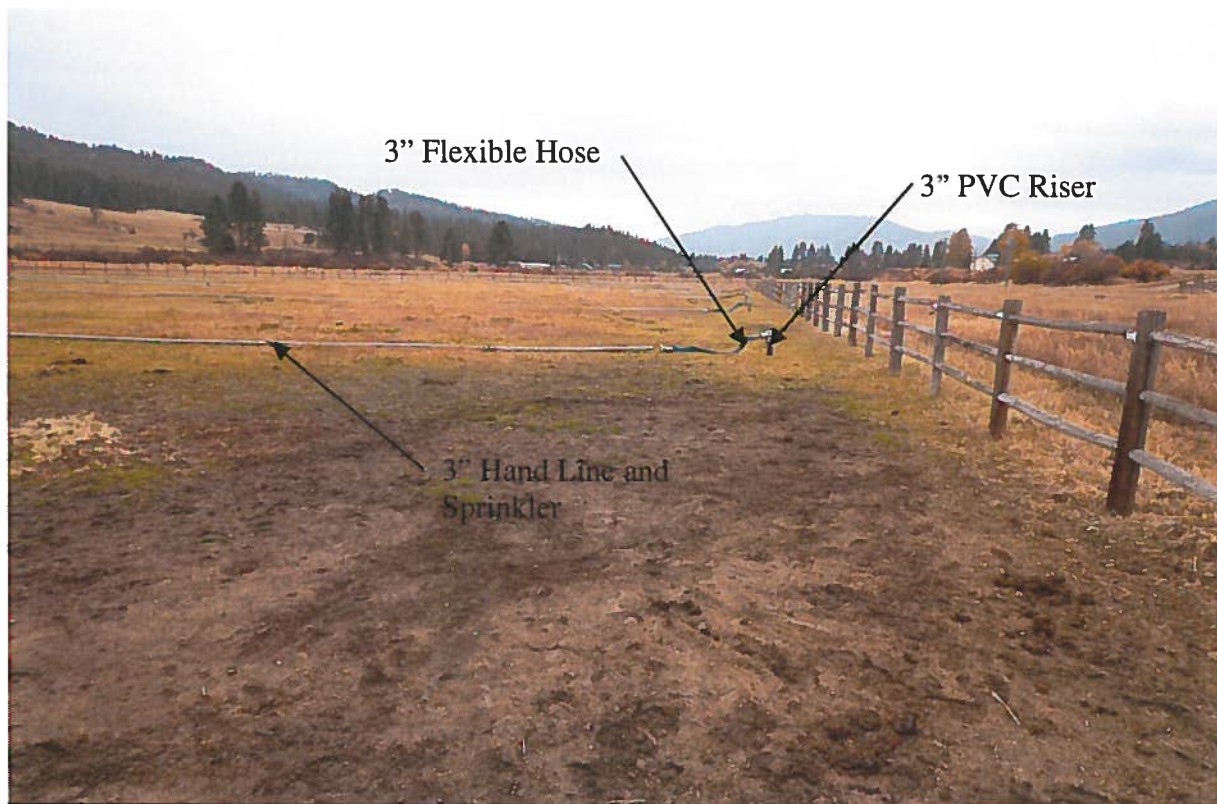
View westerly from the pump location on the river bank of the control panel and the 4" PVC discharge line.



View southwesterly across a portion of the neighbor's property of the approximate alignment of the 4" PVC water supply line. The right holder's home, where the 4" PVC supply line terminates, is shown in the center of the photo.



View of the 2" PVC riser and control valve at the end of the 4" PVC river supply line. The 2" PVC pipe conveys water to a sprinkler main line for irrigation of the lawn and landscaping adjacent to the right holder's home.



Place of Use: View southerly of the 3" irrigation sprinkler hand lines and the 3" risers for each hand line. The risers are 'teed' into the 4" PVC supply main line which extends southerly to the end of the property. A short section of 3" flexible hose is used to make the connection between the 3" risers and the 3" hand lines.



Place of Use: View southeasterly of the pasture and irrigation hand lines. The seven (7) rows of hand lines will remain at the same location throughout the irrigation season. The hand lines are comprised of forty (40) Rain Bird sprinklers with 9/64" sprinkler heads.



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

May 14, 2013

RICHARD J MC KENNA
46 RIVER RANCH RD
GARDEN VALLEY ID 83622

RE: Permit No. 65-22351

Dear Permit Holder:

We previously forwarded to you an Application for Amendment so that you could amend Permit No. 65-22351 to correspond with the findings of the Department's field examiner. We have not yet received your response.

If I do not receive the amendment within fourteen (14) days, your Water Right License will be issued for less than could have been allowed. In case the amendment form previously sent to you has been misplaced, a new one is enclosed. Please review the form and if you concur with the information presented, sign the form and return it with the \$100.00 filing fee.

If you have any questions, please contact me as soon as possible at (208)334-2190.

Sincerely,

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

KAY WALKER
Sr. Water Resource Agent

Enclosure

6-4-13
no license amendment submitted.
Reduce to 2.2 acres within NESW-
kw



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April 3, 2013

C. L. "BUTCH" OTTER
Governor

GARY SPACKMAN
~~Deputy~~ Director

RICHARD J MC KENNA
46 RIVER RANCH RD
GARDEN VALLEY ID 83622

RE: Water Right Permit No. 65-22351

Dear Permit Holder:

The Department of Water Resources is reviewing the permit referenced above prior to issuing a water right license. By issuing a license, the Department confirms the extent of development that has been established in compliance with the terms of the permit. The examiner who verified your water use reported that certain elements of the permit have been developed differently than described on your permit. Changes that do not increase the authorized use of water under the permit can be requested and approved in accordance with Section 42-211, Idaho Code. Before a license can be issued, your permit must be amended to depict your water use as it was actually developed.

Based on the examiner's report, the following elements were developed differently than described on your permit:

✓ Place of Use – Adding place of use in Gov. Lot 3(SESW).

The enclosed Application for Amendment form depicts the elements of the water right as they will appear on the license when it is issued. Please review the amendment form carefully. If you concur with the information presented, please sign the form and return it with the \$100.00 filing fee within 14 days.

If you have any questions, please call me at (208)334-2190.

Sincerely,

KAY WALKER
Sr. Water Resource Agent

Enclosures: Amendment Application & Layout



Idaho Department of Water Resources

Water Right
65-22351
(IRRIGATION)

● Point of Diversion



Place of Use



State Outline



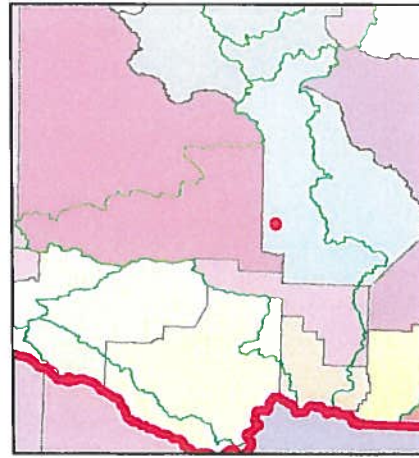
Townships



PLS Sections



Quarter Quarters



Boise County
IDWR Basin 65

Prepared by Walker, Kay

2009 Aerial Photography





State of Idaho

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C. L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Interim Director

October 3, 2012

Richard J. McKenna
46 River Ranch Road
Garden Valley, ID 83622

RE: Scheduling Field Exam for Water Right Permit No. 65-22351

We are planning to **conduct water right field examinations** in the vicinity of the above-referenced permit **during the week of October 15, 2012**. 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 0.15 cfs from the Middle Fork of the Payette River for irrigation of 5.0 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 October 12, 2012, to conduct the exam during the week of October 15, 2012.** 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 that reads "Rick Collingwood". The signature is written in a cursive, flowing style.

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