

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 65-13778

Exam Date: 10/22/2013

1. Current Owner: OTTO BENNIG
11 RIVER MEADOW DR
GARDEN VALLEY ID 83622
(208)368-3836

AND

MARY BENNIG
11 RIVER MEADOW DR
GARDEN VALLEY ID 83622
(208)368-3836
2. Accompanied by: John Kidd
Phone No: 208-259-3661
Address: Same
Relationship to Permit Holder: Current Property Owner
3. SOURCE TRIBUTARY
GROUND WATER

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 SYSTEM**1. LOCATION OF POINT(S) OF DIVERSION:**

GROUND WATER SE1/4NE1/4 Sec. 34, Twp 10N, Rge 04E, B.M.
BOISE County

Method of Determination: Arc Map (Aerial Photo); GPS – Latitude N.44°09.424', Longitude W.115°57.717'; Datum – NAD83.

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	34				1.5													1.5

Total Acres: 1.5

DOMESTIC same as IRRIGATION

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>
<u>Unknown</u>	<u>Unknown</u>	<u>3/4</u>	<u>9233</u>	<u>Jacuzzi</u>	<u>Unknown</u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>

*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>
<u>N/A</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>

2. Measurements: No field measurement. Irrigation system not in operation during the field exam.

E. FLOW CALCULATIONS

 Additional Computation Sheets Attached

Measured Method: (Theoretical Horsepower Equation)

$$Q = 8.8 \times 0.7 \times 0.75/50 + (2.31 \times 40) = 4.62/142.4 = 0.04 \text{ cfs}$$

$$Q(\text{theoretical}) = 0.04 \text{ cfs} < 0.07 \text{ cfs } Q(\text{permit})$$

$$HP = 3/4$$

$$Z = 50'$$

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

Appears that the current pumping system cannot attain the permit diversion rate of 0.07 cfs.

Recommend the pumping system capacity diversion rate of 0.04 cfs.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 1.5 \times 3.5 = 5.3 \text{ AFA}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.04 \times 231 \times 1.9835 = 18.3 \text{ AFA}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 5.3 \text{ AFA}$$

2. Volume Calculations for Other Uses: N/A

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

A ¾-hp submersible pump diverts ground water for domestic use for 1 home and irrigation of approximately 1.5 acres of lawn, landscaping, and pasture area.

IRRIGATION SYSTEM:

The lawn and landscaping areas are irrigated by a pressurized irrigation system which contains a combination of rotary and spray pop-up sprinklers. The lawn and landscaping pressurized irrigation system is comprised of 12 stations. Each station operates between 2 and 4 sprinklers for a 20 minute period.

The pasture areas are irrigated with 1 ½" hand lines. Each high-impact sprinkler has a 7/64" nozzle.

OVERLAP ANALYSIS:

Point of Diversion: There are no point of diversion overlaps for Water Right Permit No. 65-13778.
Place of Use: There are no place of use overlaps for Water Right Permit No. 65-13778.

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

RATE &/OR STORAGE RECOMMENDED FOR LICENSING

Description	Rate of Flow (cfs)		Storage (af)
Permit Amount	0.07	&/or	N/A
Beneficial Use Limit	0.07	&/or	N/A
System Measurement	0.04 (theoretical)	&/or	N/A
Proof Fee Amount	0.20	&/or	N/A
Recommended Amount	0.04	&/or	N/A

H. RECOMMENDATIONS

1. Recommended Amounts

BENEFICIAL USE

PERIOD OF USE ^{RC 3/17/14}

DIVERSION RATE ^{0.04 RC 3/17/14}

ANNUAL VOLUME

IRRIGATION

3 4/15 to 10/15/31

0.020 CFS

5.30 AFA

DOMESTIC

1/01 to 12/31

0.020 CFS

N/A 0.40

Totals: 0.040 CFS

5.30 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 2/26/14

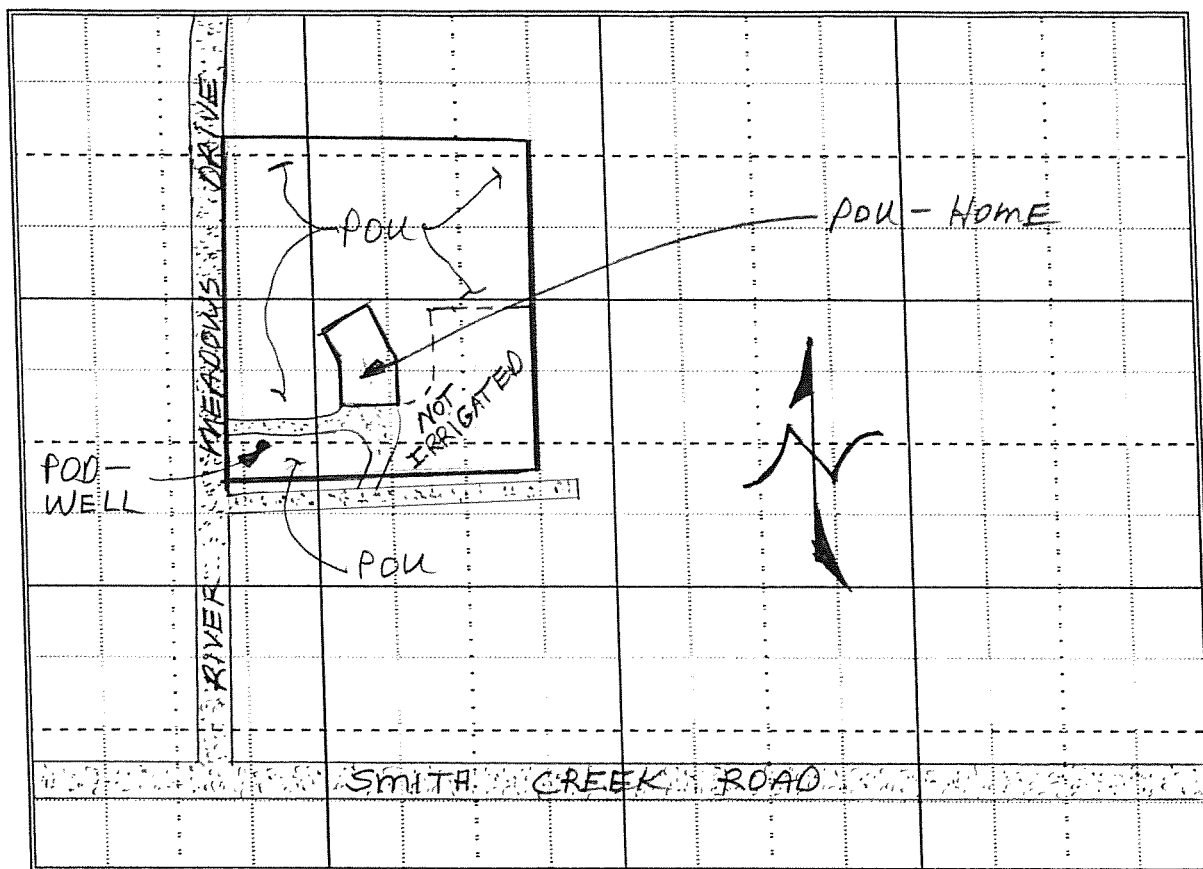
Reviewer _____ Date _____

65-13778

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

FORWARD WHITE COPY TO WATER RESOURCES

FIELD EXAM PHOTOS

Water Right Permit: 65-13778

Field Exam Date: 10-22-13

PLS: SE1/4, NE1/4 Section 34, T.10N, R.04E

Field Examiner: RC



Point of Diversion: View southerly of the ground water well which is beneficially used for domestic use for 1 home and irrigation of approximately 1.5 acres of lawn and pasture.



Place of Use: View northeasterly of the right holder's home and front lawn area served by the ground water well.



Place of Use: View northerly of the back lawn area. The fenced area north of the home is pasture.



Place of Use: View westerly of pasture area irrigated by 1 ½" hand lines.



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
Director

August 5, 2013

John & Barbara Kidd
11 River Meadow Drive
Garden Valley, ID 83622

RE: Scheduled Field Exam for Water Right Permit No. 65-13778

Since I did not get your phone number when I scheduled your field exam last week, I am writing to you to let you know that we will have to reschedule your field exam. My boss scheduled me for a meeting on Wednesday, the same date and time we were scheduled to conduct our field exam.

Please call me to provide your phone number and to reschedule a field exam on a day that works for you. I will be out of the office next week (8/12 – 8/16) conducting field exams from McCall to Grangeville.

I apologize for the inconvenience.

Sincerely,

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



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C. L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Interim Director

June 24, 2013

John D. & Barbara J. Kidd
11 River Meadow Drive
Garden Valley, Idaho 83622

Re: Water Right Permit No. 65-13778

I am writing to inform you of an existing water right permit which exists on your property at 11 River Meadow 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 ground water (well) for irrigation of 1.5 acres and domestic use for one (1) home.

The water right permit was issued to the previous owners, Otto and Mary Bennig. However, the field exam scheduling letter sent to Otto and Mary Bennig was returned to our office. Upon further investigation, I discovered that you are the current owners of the property located at 11 River Meadow Drive in Garden Valley, Idaho.

In order to proceed with obtaining a water right for the irrigation and domestic water 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 Bennig's assign the permit to you. If you have contact information for the Bennig'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 Bennig's, the next option would be to proceed with obtaining the water right in the Bennig'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 ground water is no longer being put to beneficial use for irrigation of 1.5 acres and domestic use for one (1) home, 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 and domestic use, 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 "C" for the last name.

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



State of Idaho

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C. L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Interim Director

September 13, 2012

Otto and Mary Bennig
11 River Meadow Drive
Garden Valley, ID 83622

RE: Scheduling Field Exam for Water Right Permit No. 65-13778

We are planning to **conduct water right field examinations** in the vicinity of the above-referenced permit **during the week of September 24, 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 0.07 cfs from ground water for irrigation of 1.5 acres and domestic use for one home.

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 September 21, 2012, to conduct the exam during the week of September 24, 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.