

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 63-12597

Exam Date: 4/29/2014

1. Current Owner: ROBERT WILSON
1785 DANMORE
BOISE ID 83712
(208)384-7861
2. Accompanied by: Steven Seyfert
Phone No: (208) 939-5824
Address: 3532 N. Holl Drive, Eagle, ID 83616
Relationship to Permit Holder: 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 SYSTEM1. LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER NE1/4SE1/4 Sec. 33, Twp 05N, Rge 01E, B.M.
ADA County

Method of Determination: Arc Map (Aerial Photo)

2.

PLACE OF USE: IRRIGATION

Twp Rge Sec	NE				NW				SW				SE				Totals
05N 01E 22	<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>	1.5
																	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 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>
<u>Unknown</u>	<u>Franklin</u>	<u>2</u>	<u>Unknown</u>	<u>Unknown</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 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.

E. FLOW CALCULATIONS

 Additional Computation Sheets Attached

Measured Method: (Theoretical Horsepower Equation)

$$Q = 8.8 \times 0.7 \times 2/240 + (2.31 \times 30) = 12.32/309.30 = 0.04 \text{ cfs}$$

$$Q(\text{theoretical}) = 0.04 \text{ cfs} < 0.13 \text{ cfs } Q(\text{permit})$$

$$HP = 2$$

$$Z = 240' \text{ (Estimated)}$$

$$P = 30 \text{ psi (Assumed)}$$

Appears that the current pumping system cannot attain the permit diversion rate of 0.13 cfs. Right holder only irrigates 1.5 acres, not 3.0 acres as indicated on the permit. Based on irrigation of 1.5 acres and domestic use for 1 home, the maximum allowable diversion rate would be 0.09 cfs. However, the current pumping system cannot attain a diversion rate of 0.09 cfs. Recommend the current theoretical pumping capacity of 0.04 cfs.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 1.5 \times 4.5 = 6.8 \text{ AFA}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.04 \times 260 \times 1.9835 = 20.6 \text{ AFA}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 6.8 \text{ AFA}$$

2. Volume Calculations for Other Uses: (Domestic – 1 home)

$$V = 0.6 \text{ AFA}$$

G. NARRATIVE/REMARKS/COMMENTS**Water Supply:**

A 2-hp submersible pump diverts ground water for domestic use for 1 home and irrigation of approximately 1.5 acres of pasture, lawn, landscaping, and gardens.

Irrigation:

Approximately 1.0 acre of pasture land is irrigated by fourteen (14) high impact rotary sprinklers. The pasture irrigation system is comprised of four (4) stations, with 3 – 4 sprinklers per station. Each sprinkler has a 5/32" nozzle, and is attached to a 1" PVC riser. Each riser is attached to a steel fence post for stability.

The right holder has installed ½" PVC drip lines to irrigate several large trees south of the home and adjacent to the driveway.

The lawn, landscaping, and garden areas are irrigated by rotary and spray pop-up sprinklers. The irrigation system is comprised of six (6) stations, with 3 – 4 sprinklers per station.

OVERLAP ANALYSIS:

Point of Diversion: There are no point of diversion overlaps for Water Right Permit No. 63-12597.

Place of Use: There are no place of use overlaps for Water Right Permit No. 63-12597.

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

RATE &/OR STORAGE RECOMMENDED FOR LICENSING

Description	Rate of Flow (cfs)		Storage (af)
Permit Amount	0.13	&/or	N/A
Beneficial Use Limit	0.09	&/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	DIVERSION RATE	ANNUAL VOLUME
IRRIGATION	3/01 to 11/15	^{0.040} ~~0.050~~ CFS <i>rc 6/25/14</i>	6.80 AFA
DOMESTIC	1/01 to 12/31	0.040 CFS	0.60 AFA
<u>Totals:</u>		0.040 CFS	7.40 AFA

2. Recommended Amendments

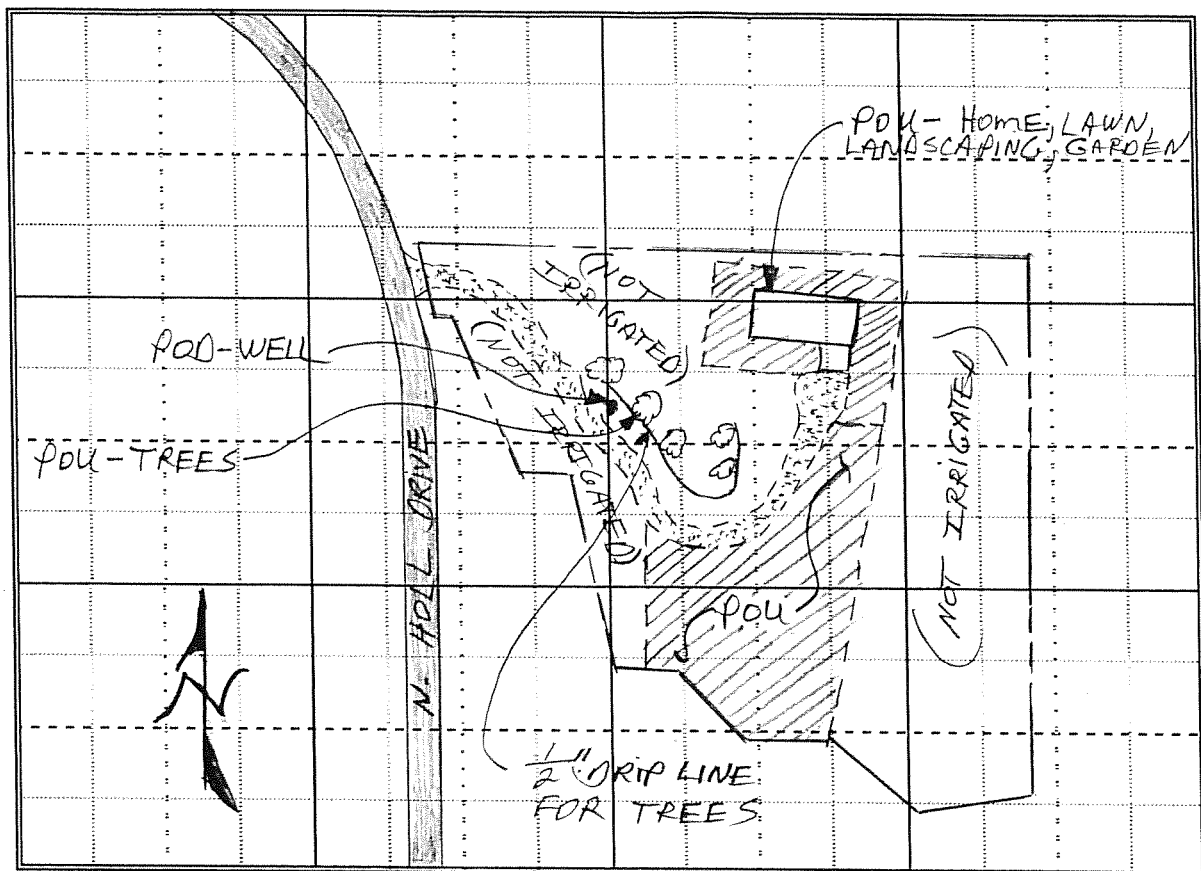
___ Change P.D. as reflected above ___ Add P.D. as reflected above X None

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

I. AUTHENTICATION

Field Examiner's Name *Rick Collingwood* Date *5/13/14*
 Reviewer _____ Date _____

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

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

USE TYPEWRITER OR
BALLPOINT PEN

State law requires that this report be filed with the Director, Department of Water Resources
within 30 days after the completion or abandonment of the well.

1. WELL OWNER

Name Rich Bucktail
Address Brown Light Heights, Boise
Owner's Permit No. _____

7. WATER LEVEL

Static water level 195 feet below land surface.
Flowing? ☐ Yes ☒ No G.P.M. flow _____
Temperature _____ °F. Quality _____
Artesian closed-in pressure _____ p.s.i.
Controlled by: ☐ Valve ☐ Cap ☐ Plug

2. NATURE OF WORK

☒ New well ☐ Deepened ☐ Replacement
☐ Abandoned (describe method of abandoning)

8. WELL TEST DATA

☒ Pump ☒ Bailer ☐ Other

Discharge G.P.M.	Drawdown	Hours Pumped
100-150		4-6 hrs

3. PROPOSED USE

☒ Domestic ☐ Irrigation ☐ Test ☐ Other (specify type)
☐ Municipal ☐ Industrial ☐ Stock ☐ Waste Disposal
or Injection

9. LITHOLOGIC LOG

Hole Diam.	Depth		Material	Water	
	From	To		Yes	No
6"	0	2'	Top Soil		
	2'	15'	Sandy Clay		
	15'	42'	Sand		
	42'	146'	Yellow Sandy Clay		
	146'	149'	Fine Yellow Sand		
	149'	155'	Yellow Seal Clay		
	155'	167'	Fine Yellow Sand		
	167'	181'	Sand Clay		
	181'	182'	Fine Yellow Sand		
	182'	190'	Orange Fine Sand		
	190'	198'	Fine Yellow Sand		
	198'	200'	Fine Blue Sand		
	200'	233'	Sandy Blue Shale		
	233'	236'	Fine Blue & Blue-white Sand		
	236'	241'	Sandy Blue Shale		
	241'	245'	Fine light Brown Sand		
	245'	245'	Fine light Blue Sand		
	245'	246'	White Sand		
	246'	248'	Fine Blue Sand		
	248'	248'	Fine light Blue Sand		
	248'	248'	Fine Blue Sand		
	248'	248'	Blue Shale		
	248'	248'	Fine Blue Sand		
	248'	248'	Sandy Blue Shale		
	248'	248'	Blue Shale		
	248'	248'	Sand		

4. METHOD DRILLED

☒ Cable ☐ Rotary ☐ Dug ☐ Other

5. WELL CONSTRUCTION

Diameter of hole 6 inches Total depth 437 feet
Casing schedule: ☒ Steel ☐ Concrete

Thickness	Diameter	From	To
250	6	1	321

Was casing drive shoe used? ☒ Yes ☐ No
Was a packer or seal used? ☐ Yes ☒ No
Perforated? ☐ Yes ☒ No

How perforated? ☐ Factory ☐ Knife ☐ Torch
Size of perforation _____ inches by _____ inches

Number	From	To
_____ perforations	_____ feet	_____ feet
_____ perforations	_____ feet	_____ feet
_____ perforations	_____ feet	_____ feet

Well screen installed? ☐ Yes ☒ No

Manufacturer's name _____

Type _____ Model No. _____

Diameter _____ Slot size _____ Set from _____ feet to _____ feet

Diameter _____ Slot size _____ Set from _____ feet to _____ feet

Gravel packed? ☐ Yes ☒ No Size of gravel _____

Placed from _____ feet to _____ feet

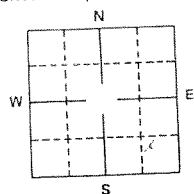
Surface seal depth 20 feet Material used in seal: ☐ Cement grout

☐ Puddling clay ☒ Well cuttings

Sealing procedure used: ☐ Slurry pit ☐ Temporary surface casing
☒ Overbore to seal depth

6. LOCATION OF WELL

Sketch map location must agree with written location.



Subdivision Name Brown

Light Heights

Lot No. 2 Block No. 2

County Ada

SE 1/4 SE 1/4 Sec. 33, T. 5 N/S, R. 1 E/W

10.

Work started 4/14/28 finished 5/17/28

11. DRILLERS CERTIFICATION

Firm Name Brown Valley Pumping Firm No. 207

Address 2950 S. Garden Date _____

Signed by (Firm Official) Don W. Wright
and

(Operator) Harry P. Tilton

FIELD EXAM PHOTOS

Water Right Permit: 63-12597

Field Exam Date: 4-29-14

PLS: NE1/4, SE1/4 Section 33, T.5N, R.01E

Field Examiner: RC



Point of Diversion: View northeasterly of the 10" steel cased ground water well. The ground water well provides water for domestic use and irrigation of a small pasture area.



Place of Use: View southerly of the small pasture area irrigated by the ground water well. The high impact rotary sprinklers are attached to 1" PVC pipe risers supported by steel fence posts.



Place of Use: View of a typical 1/2" PVC irrigation drip line. The trees located southerly of the home and along the driveway are irrigated by drip lines.



Place of Use: View northwesterly of the home served by the ground water well.



Place of Use: View westerly of the right holder's front lawn area. The lawn and landscaping are irrigated by the ground water well with a mixture of rotary and spray pop-up 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 www.idwr.idaho.gov

C. L. "BUTCH" OTTER, Governor

GARY SPACKMAN, Director

April 8, 2014

Steven E. & Judith L. Seyfert
3532 N. Holl Drive
Eagle, ID 83616

Re: Water Right Permit No. 63-12597

Dear Mr. & Mrs. Seyfert:

I am writing to inform you of an existing water right permit which exists on your property at 3532 N. Holl Drive, Eagle, Idaho. A water right permit is not a water right, but a permit issued by the Department to allow beneficial use of water as requested by the applicant. The beneficial use for the water right permit is to divert ground water for irrigation and domestic use. The water right permit was issued to the previous property owner, Robert Wilson.

In order to proceed with obtaining a water right for irrigation and domestic use, there are two options available which transfers the water right ownership to you. The first option would be to have Mr. Wilson assign the water right permit to you. If you have contact information for Mr. Wilson, we can submit an 'Assignment of Permit' form to him for execution. The process fee for an 'Assignment of Permit' is \$25.00. If contact information is not attainable for Mr. Wilson, the next option would be to proceed with obtaining the water right under Mr. Wilson'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 'Change of Ownership' form can be downloaded from the Department's public website at www.idwr.idaho.gov, or we can mail a copy with the instructions to you.

The next step which needs to take place to proceed with 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 and domestic use, please let me know and will proceed with relinquishment or voidance of the water right permit. However, if you are beneficially using the ground water for irrigation and domestic use, you are required to obtain a water right from our Department.

I am planning to conduct water right field examinations in your area **during the week of April 21**. 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 April 18 to conduct the field exam during the week of April 21.** If there is a problem with scheduling or conducting a field examination at this time, please let me know so we can reschedule.

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 fluid and cursive, with a large loop at the end of the last name.

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



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

September 6, 2013

Steven E. & Judith L. Seyfert
3532 N. Holl Drive
Eagle, ID 83616

Re: Water Right Permit No. 63-12597

Dear Mr. & Mrs. Seyfert:

I am writing to inform you of an existing water right permit which exists on your property at 3532 Holl Drive, Eagle, 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 from a well for irrigation and domestic use for one home. The water right permit was issued to the previous owner, Robert Wilson.

In order to proceed with obtaining a water right for the irrigation and domestic water systems on your property, there are two options available which transfers the water right ownership to you. The first option would be to have the Mr. Wilson assign the water right permit to you. If you have contact information for Mr. Wilson, we can submit an 'Assignment of Permit' form to him for his execution. The process fee for an 'Assignment of Permit' is \$25.00. If contact information is not attainable for Mr. Wilson, the next option would be to proceed with obtaining the water right under the Mr. Wilson'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 and domestic use for one 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 ground water for irrigation and domestic use, you are required to obtain a water right from the 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, sweeping loop at the end of the last name.

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



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C. L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Interim Director

March 27, 2013

Robert Wilson
1785 Danmore
Boise, ID 83712

RE: Scheduling Field Exam for Water Right Permit No. 63-12597

We are planning to **conduct water right field examinations** in the vicinity of the above-referenced permit **during the week of April 8, 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 0.13 cfs of ground water for irrigation of 3.0 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 April 5, 2013, to conduct the exam during the week of April 8, 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 discovered that you are not the current owner Lot 7, Block 2, of Beacon Light Estates No.2. In order to change the water right permit ownership to the current owners, you will need to execute an Assignment of Permit form. I have enclosed a copy for your convenience.

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

Sincerely,

A handwritten signature in cursive script that reads "Rick Collingwood". The signature is written in dark ink and is positioned above the printed name of the sender.

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