

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 67-08025
Exam Date: 5/3/2017

1. Current Owner:
DON ROOT 1406 ROSS RD WEISER ID 83672 (208)549-1865

2. Accompanied by: DON ROOT
Phone No: (208)549-1865
Address: 1406 ROSS RD WEISER ID 83672
Relationship to Permit Holder: CURRENT OWNER

3. SOURCE:
GROUND WATER

TRIBUTARY:
N/A

B. OVERLAP REVIEW

1. Other water rights with the same place of use: Lower Payette Ditch Co., Lower Reservoir Co. irrigation water rights.
2. Other water rights with the same point-of-diversion: None

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

GROUND WATER SW¼SW¼ Sec. 4, Twp 10N, Rge 05W, B.M. WASHINGTON County

Method of Determination: Handheld GPS. 44° 13.538' N, 116° 57.148' W

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	05W	4											12.0						12.0

Total Acres: 12

Method of Determination: GIS data and satellite imagery.

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.

Well or Diversion ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
D0009516	NA	7.5	NA	Submersible, make NA	6" Discharge/Pump Serial No. NA

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

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
Panametrics	Transducer Acoustic	GE	PT878	GAA1620004	402	3/28/2017

2. Measurements: Measured flow on steel discharge pipe near pivot head.

Pipe=steel

Wall Thickness=0.112"

Pipe Diameter=8.03"

E. FLOW

Additional Computation Sheets Attached

CALCULATIONSMeasured Method: GE Panametrics live flow measured at **80 GPM= 0.18 cfs****F. VOLUME CALCULATIONS**

1. Volume Calculations for Irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = (12 \text{ acres}) \times (4.5 \text{ af}) = 54\text{af}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = [0.18 \text{ (cfs)}] \times (246 \text{ days}) \times 1.9835 = 87.8\text{af}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 54\text{af}$$

2. Volume Calculations for Other Uses: NONE

G. NARRATIVE/REMARKS/COMMENTS

The field exam was conducted May 3, 2017 by agents Patrick Kelly and Justin Shearer. They were accompanied by current property owner Don Root at the well and pivot head location.

Ownership of the permit is in the name of Don Root. Current Washington County taxlot data represents Mr. Root owns the land pertinent to the place of use. No ownership change is required.

Ground water comes from a well drilled in 1999. A well driller's report was found to have been submitted shortly after the WR permit was issued for this right in examination. At the time of the exam, a 7.5 Hp submersible pump was providing water to a pivot system. Motor make/serial no., and pump make/serial no. were unobtainable at the time of the exam as both were submerged down near the bottom of the well.

Flow measurements were recorded using a GE Panametrics measuring device. A straight section of pipe was found near the pivot head suitable to gain an accurate reading for flow through the system while operating at normal irrigation practice. While actively running, the pivot sprinkler system produced an average diversion of 80 gpm (0.18 cfs). The observed rate being less than the permitted rate is likely due to the higher efficiency of sprinkler irrigation versus the 0.02 cfs/acre max allowable based on flood irrigation and should thus be sufficient for the user's needs as they have already been sustaining their irrigation needs at the observed rate of 0.18 cfs.

Overlap review found a total of 13 surface water irrigation rights pertinent to the property belonging to Lower Payette Ditch Co., and Lake Reservoir Co. The applicant held 20 shares of Lower Payette Ditch Co. water at time of application in 1999, but stated that he has not been able to receive this water for some time due to delivery issues related to re-construction of supply ditch and water box and resulting disputes over the ditch with neighbors. As a result, surface water was not used during the development period and this right should no longer be considered supplemental; supplemental conditions 065, and 079 should be removed so as to allow for use of right as a primary right. The applicant also possesses two other water groundwater rights for domestic and stockwater use (67-10275 & 67-10278), but they use a separate well and the POU's are limited to his home and immediate property surrounding the house, thus there is no overlap with his existing water rights.

The permit identified an intended irrigation of 12 acres. ArcGIS and aerial imagery show 12 acres of irrigation within the SWSW QQ accurately developed as permitted.

Irrigation Permit: 0.24 cfs
B.U. Standard Allowance: 0.02 cfs
B.U. Proof Fee: \$100 → 0.20 cfs to 1.00 cfs
Measurement of Theoretical Rate 0.18 cfs

License Recommendation 0.18 cfs

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

H. RECOMMENDATIONS

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
IRRIGATION	3/1 to 11/15	0.18 CFS	54.00 AF
<u>Totals:</u>		0.180 CFS	54.00 AF

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 ☒ None

I. AUTHENTICATION

Field Examiner's Name

Date

6/9/2017

Reviewer

Date

6/9/2017

NESE

NWSW

5
SESE

POD

SWSW

4

TUNNEL

Pivot

8

NWNW

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

Office Use Only
Inspected by _____
Twp _____ Rge _____ Sec _____
_____ 1/4 _____ 1/4 _____ 1/4
Lat: ~~_____~~ : Long: _____ : _____

1. WELL TAG NO. D 0004516
 DRILLING PERMIT NO. 67-99-14 0024-000
 Other IDWR No. 67-08025

2. OWNER: Don E. Root
Name 1890 Baker Ln
Address payroll City Idaho State Id Zip 83401

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

N
 W E S
 Twp. 10 North ☒ or South ☐
 Rge. 5 East ☐ or West ☒
 Sec. 4 1/4 1/4 1/4 1/4
 Gov'l Lot _____ County Washington
 Lat. : : Long. : :
 Address of Well S.ite 1406 Ross
 City Wenier
 (Give At least name of road - Distance to Road or Landmark)
Rd

LI. Bk. Sub. Name
PAR. P.O. - 2304 - 3 TN 43

4. USE:

- ☐ Domestic ☐ Municipal ☐ Monitor ☒ Litigation
☐ Thermal ☐ Injection ☐ Other

5. ~~TYPE OF WORK~~ check all that apply (Replacement etc.)

☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD

- ☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other

7. SEALING PROCEDURES

SEA/FILTER PACK			AMOUNT	METHOD
Material	From	To	Sacks or Pounds	
Bentonite	0	18	450	overbal.

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 40

Was drive shoe seal tested? ☐ Yes ☒ No How?

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Linear	Welded	Threaded
8	1	40	250	Steel	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS

Perforations Method Down Hole
Screens Screen type

From	To	Slot Size	Number	Diameter	Material	Casing	Linear
24	35	Var	456	.8	Steel	☒	☐
						☐	☐
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

10 ft. below ground Artesian pressure lb.

Depth flow encountered ft. Describe _____

Depot: new encountered _____; business access part of control devices:

11. WELL TESTS:

- ☒
- Pump
- ☐
- Bailer
- ☐
- Air
- ☐
- Flowing Artesian

Yield gal/min	Drawdown	Pump Level
70+		56
100	10	20

Water Temp. 61.0 Bottom hole temp. _____

Water Quality test or comments:

Depth first Water Encounter _____

12. LITHOLOGIC LOG: (Describe repairs or abandonment) water

[illegible]

Completed Depth 40 (Measurable)
Date: Started 5-10-99 Completed 5-11-99

13. DRILLER'S CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Company Name Dallas Drilling Firm No. 445

Firm Official [Signature] Date 8-24-99

and _____

Driller or Operator _____ Date _____

(Sign once if Firm Official & Operator)

FORWARD WHITE COPY TO WATER RESOURCES



Picture of POD showing 6" discharge pipe heading into ground and towards pivot head.



Picture of PSI gauge while system was running.



Picture of well metal ID tag showing diversion is well D0009516.



Control panel for Mr. Root's pump system located in proximity of POD.



Picture of GE Panametrics measurement system in use near pivot head.



Picture Mr. Root's pivot system showing dangling sprinkler heads.



Another picture of the flow measurement device and the section of pipe that was used for measurement.



A picture of another PSI gauge near the pivot head while system was running.



State of Idaho

DEPARTMENT OF WATER RESOURCES

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

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

C.L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

April 19, 2017

COPY

DON ROOT
1406 ROSS RD
WEISER ID 83672

RE: Scheduling Field Exam for Water Right Permit No. 67-8025

Dear Permit Holder:

We are planning to conduct water right examinations in the vicinity of the above-referenced permit **this season**. An examination is needed to verify the water use in order to issue a water right license.

The above-referenced permit authorizes **0.24 cfs of GROUND WATER** for **IRRIGATION** use. **If you have developed a beneficial use and still own the place of use property, please contact me at your earliest convenience to schedule an examination.**

If you did not develop a beneficial use of water under the permit during the beneficial use period, a license cannot be issued and the permit should be relinquished. If that use was developed, but have ceased using the water and you currently carry no interest in it, please relinquish the permit by submitting the enclosed Relinquishment of Permit form (no fee required).

If you did develop a beneficial use of water under the permit, but you no longer own the place of use property identified in the permit, please submit the enclosed Assignment of Permit form with the applicable \$25 processing fee.

Please contact me within the next thirty (30) days at (208) 334-2190 to either schedule an examination or submit a relinquishment or assignment form. If you no longer own the place of use property and/or do not respond to this letter, the department will work with the current property owner to issue a license or void the permit.

Sincerely,

Patrick Kelly
Water Resource Agent, Sr.

Enclosures: Relinquishment of Permit form
Assignment of Permit form
Water Permit Report and Map