

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 67-08061

Exam Date: 7/31/2017

1. Current Owner:

RALPH L GRAHAM 1520 THOUSAND SPRINGS RD WEISER ID 83672 (208) 549-2033 And/Or
JUDY L GRAHAM 1520 THOUSAND SPRINGS RD WEISER ID 83672 (208) 549-2033

2. Accompanied by: Current Owner

Phone No:

Address:

Relationship to Permit Holder:

3. **SOURCE:**

GROUND WATER

TRIBUTARY:**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 NE¼NW¼ Sec. 19, Twp 12N, Rge 04W, B.M. WASHINGTON County

Method of Determination: Garmin GPS point collected during exam 44d 22.084, -116d 51.822

2.

PLACE OF USE: DOMESTIC

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
12N	04W	19					X												

Method of Determination: Digital PLSS boundary map used with aerial imagery.

3.

Delivery System Diagram Attached (required). Indicate all major components and distances between components.

☒ X

Indicate weir size/pipe as applicable.

☒ X

Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.

☒ X

Aerial Photo Attached (required for irrigation of 10+ acres).

☒ X

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
D0015727	GE	¾	TYJ140303		

*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

2. Measurements: 5 gallon bucket test used to measure irrigation pump, domestic system not built to provide measurement access.

E. FLOW

Additional Computation Sheets Attached

CALCULATIONS

Measured Method:

$$Q = \frac{8.8 * (\text{Efficiency}) * \text{hp}}{\text{depth to water} + 2.31 * (\text{psi}) + \text{friction}}$$

Efficiency = 0.70

Depth to water = 50 ft.

psi = 40

hp = 0.75

Theoretical = 0.03 cfs

Permit	0.04 cfs
B.U. Standard Allowance	0.04 cfs
B. U. Proof Fee	\$100 → 0.21 to 1.00 cfs
Theoretical Rate	0.03 cfs
License Recommendation	0.04 cfs

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$$

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

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

2. Volume Calculations for Other Uses: 13,000 gallon per day limit.

G. NARRATIVE/REMARKS/COMMENTS

Charles Phillips applied for and submitted proof under water permit 67-8061. An assignment of permit was received in 2005 for current property owner Ralph and Judy Graham. Changes to ownership are not required at the time of licensing.

Well tag D0015727 is observed on the casing. A well log under this number finds a well log drilled for a Mr Phillips in 2000. There are no other water rights associated with the well. The well is set up to deliver water through gated pipe via a 5 hp submersible pump. A second ¾ hp GE pump exists that delivers water to the home for domestic use. The irrigation use on the property is primarily provided by Mann Creek Irrigation District, so the well is seldom used for irrigation purposes. A mainline runs above ground making for a suitable measuring location. During the exam, little water was being diverted from the well, so a part of the mainline was disconnected. The rate of flow was low enough to complete a test using the 5-gallon bucket method. The 5 gallon bucket filled at an average time of 23.8 seconds, or approximately 0.03 cfs. This is hardly enough water to provide supplemental use on 40 acres. It was apparent something was wrong with the system.

I gave Mr. Graham time to contact Treasure Valley Drilling and Pump, or any other well driller that may be available to inspect the system. After a month, contact was made with Ralph via telephone. He informed me that he was unsuccessful at reaching anyone to take a look at his well. We decided it was best to move forward with the domestic portion of the right, and if irrigation use from the well was desired in the future, Mr. Graham would re-apply for a new permit.

The theoretical equation for domestic purposes was used to estimate the domestic diversion. The calculated 0.03 cfs is reasonably close enough to recommend the standard allowance for single home domestic use (0.04 cfs). Annual volume is recognized by adding a 13,000 gallon per day limit on conditions of the right.

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>
DOMESTIC	01/01 to 12/31	0.04 CFS	
<u>Totals:</u>		0.040 CFS	

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 Patrick Kelly Date 9-6-17

Reviewer _____ Date _____



67-8061 System Diagram

● Point of Diversion - Well D0015727

□ Domestic Place of Use



POD
8" well

44d 22.084
-116d 51.822

Separate domestic
system shown attached
to right of well casing.

Irrigation pipe runs
from white PVC shown
on left.



Well tag:
D0015727



Domestic system

GE motor
1/4 hp



View of pump house
during an attempt to
measure irrigation
diversion.



State of Idaho

DEPARTMENT OF WATER RESOURCES

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C.L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

April 19, 2017

COPY

RALPH AND JUDY GRAHAM
1520 THOUSAND SPRINGS RD
WEISER ID 83672

RE: Scheduling Field Exam for Water Right Permit No. 67-8061

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 **0.84 cfs of GROUND WATER for IRRIGATION and DOMESTIC 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