

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 98-7993
Exam Date: 08/15/2019

1. Current Owner:
RAWLINGS REVOCABLE TRUST C/O PAUL RAWLINGS
166 HOOT OWL RD BONNERS FERRY ID 83805-5769
2. Accompanied by: Paul Rawlings
Relationship to permit Holder: Applicant

3. **SOURCE:**
SPRING

Tributary
SINKS

Method of Determination: Arcmap and DRG

B. OVERLAP REVIEW

1. Other water rights with the same place of use: None

Water Right No.	Source	Purpose of Use	Basis

Comments: _____

2. Other water rights with the same point-of-diversion: NO Overlap

Water Right No.	Source	Purpose of Use	Basis

Comments: _____

C. DIVERSION AND DELIVERY SYSTEM

1. **LOCATION OF POINT(S) OF DIVERSION:**
SPRING SW¼ NW¼ SW¼, Sec. 4, Twp 61N, Rge 02E, B.M. BOUNDARY County

Method of Determination: Maps and GPS. POD located at -116° 13.245, 48° 39.854

PLACE OF USE: IRRIGATION

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
61N	02E	4										1.1							1.1

Total Acres: 1.1

Method of Determination: Google Earth and Arcmap.

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
N/A					

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
5 GALLON BUCKET						

2. Measurements: Three 5 gallon bucket tests were performed while the system ran at normal capacity. Each hose was to a different area of the irrigation use.

Measurement 1 – 5 gal / 115 sec X 60 sec = 2.6 gpm

Measurement 2 – 5 gal / 97 sec X 60 sec = 3.1 gpm

Measurement 3 – 5 gal / 171 sec X 60 sec = 1.8 gpm

$2.6 + 3.1 + 1.8 = 7.5 \text{ gpm or } 0.02 \text{ cfs}$

448.8 gpm
255

E. FLOW CALCULATIONS

Additional Computation Sheets Attached

Measured Method:

N/A

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation:

$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 1.1 \text{ AC} \times 3.0 \text{ AF} = 3.3 \text{ AF}$

$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.02 \times 214 \times 1.9835 = 8.5 \text{ AF}$

$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 3.3 \text{ AF}$

2. Volume Calculations for Other Uses: N/A

G. NARRATIVE/REMARKS/COMMENTS

Field exam with the applicant, Paul Rawlings, showed a spring being used for irrigation. The spring was located up the hill from the irrigation use. The spring water was diverted to a 500 gallon tank via an old gutter. From the tank, water was diverted using gravity flow through a 2 inch pipe to a splitter that had three hoses running. The 2 inch line was too small for me to measure using the GE Panametric and because the Fuji did not pass certification, a 5 gallon bucket test would need to be performed. The applicant had the three hoses going to different areas of property. I decided to perform a measurement with each hose independently and then determine the total diversion rate for all 3. The measurements for each will be shown in the beneficial use exam, but the total diversion was equal to 7.5 gpm or 0.02 cfs.

The applicant used 3 separate hoses around the property and would have them run 24 hours a day. He would move the hoses around the property to get different areas green. The sprinklers were just small circle sprays that would only get a small circle because of the small diversion rate and psi. The irrigated area was traced out during license review and was equal to 1.1 acres of land. The license will be issued for a diversion rate of 0.02 cfs with an annual volume of 3.3 acre-feet.

The applicant came in at one time and applied for four water rights on the property (98-7992 to 7995). All of these rights are independent of each other and there is no interconnection. There are also 3 water rights identified to the 40 acre tract (98-4006, 98-7752, and 98-7785). These water rights, according to the maps in the backfile, appear to be located on the neighbor's property to the east. There does not appear to be any other rights on this property except the 4 independent rights applied for by the applicant, there are no overlap concerns. All conditions will remain on the license.

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

H. RECOMMENDATIONS**1. Recommended Amounts**

<u>Beneficial Use</u>	<u>Period of Use</u>	<u>Rate of Diversion</u>	<u>Annual Volume</u>
IRRIGATION	04/01 to 10/31	0.02 CFS	3.3 AF

Totals: 0.02 CFS 3.3 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

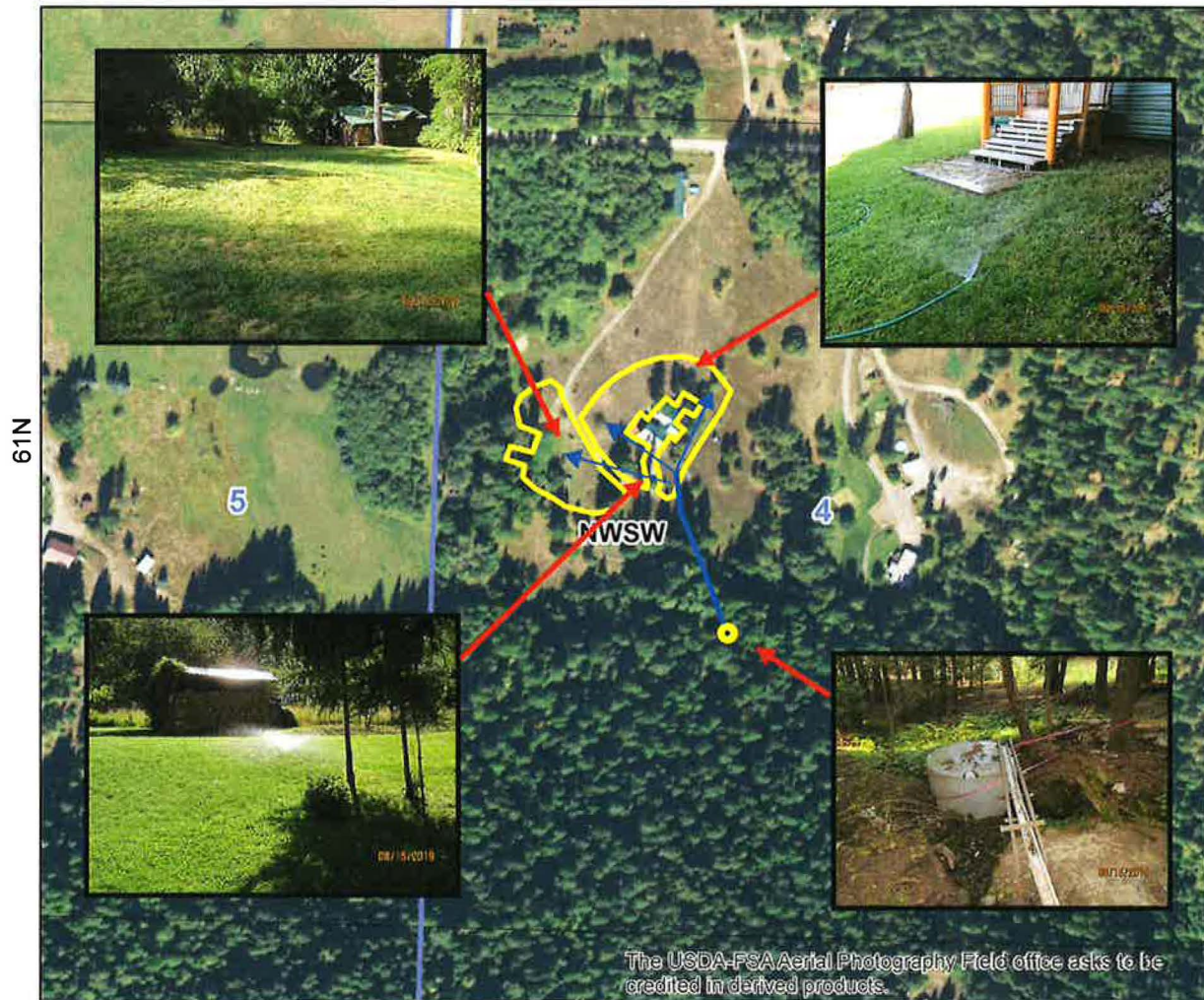
Adam Frederick - Water Resource Agent, Senior

Field Examiner's Name Adam Frederick Date 10/25/2019
 Reviewer Douglas Jones P.E. Date 12/31/2019

State of Idaho
Department of Water Resources
Attachment to Field Exam
98-7993

IRRIGATION / SYSTEM DIAGRAM

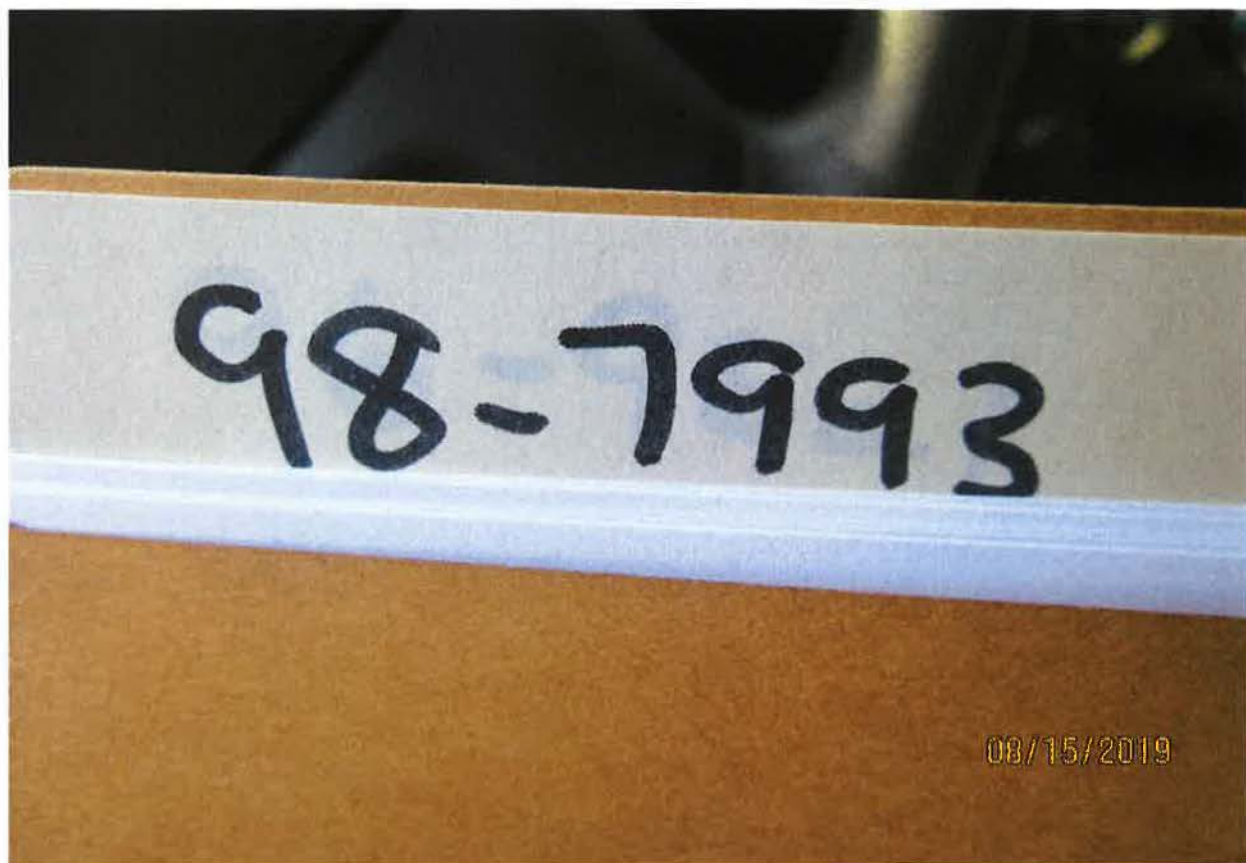
02E



-  Point of Diversion
-  Place Of Use Boundary
-  Townships
-  PLS Sections
-  Quarter Quarters

0 0.035 0.07 0.14 Miles





Diversion from spring to 500 gallon storage tank.



2 inch pipeline used for gravity flow to irrigation.



Irrigation POU.



Irrigation POU.





Irrigation POU.





Irrigation POU.

