

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 67-14548

Exam Date: 7/26/2013

1. Current Owner: JOHN COLE
2466 HWY. 95
COUNCIL, ID 83612
(208)253-0252
2. Accompanied by: John Cole
Phone No: Same
Address: Same
Relationship to Permit Holder:

3. **SOURCE**

SPRING

TRIBUTARY

UNNAMED STREAM

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:**

SPRING SE1/4SW1/4SW1/4 Sec. 24, Twp 17N, Rge 01W, B.M.
ADAMS County

Method of Determination: Arc Map (Aerial Photo); GPS – Latitude N.44°47.394', Longitude W.116°24.542'; Datum – NVD83.

2.

PLACE OF USE: DOMESTIC

Twp	Rge	Sec	NE				NW				SW				SE				
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	Totals
17N	01W	24											X						

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>
N/A	Century	0.75	29312.12	Unknown	3/4"

*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>
N/A						

2. Measurements: No field measurement. Flow from spring discharges into top of 300-gallon steel water storage tank.

E. FLOW CALCULATIONS

____ Additional Computation Sheets Attached

Measured Method: (Theoretical Horsepower Equation)

$$Q = 8.8 \times 0.7 \times 0.75/20 + (2.31 \times 30) = 4.62/89.3 = 0.05 \text{ cfs}$$

$$Q(\text{theoretical}) = 0.05 \text{ cfs} > 0.04 \text{ cfs } Q(\text{permit})$$

$$HP = \frac{3}{4}$$

$$Z = 20' \text{ (Estimated)}$$

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

Appears that the current water delivery and pumping system can attain the permit diversion rate of 0.04 cfs.

Recommend the permit diversion rate of 0.04 cfs.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: N/A

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

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

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

2. Volume Calculations for Other Uses: (Domestic – External Use)

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

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

Spring water is collected in a buried spring box located easterly of the home site. Spring water is diverted through 1" PVC pipe to a 300-gallon steel water storage tank.

DOMESTIC USE:

A ¾-hp centrifugal pump diverts water from the 300-gallon steel water storage tank to irrigate fruit trees and a garden. The fruit trees are irrigated by drip lines. The garden is irrigated by a mixture of rotary and spray sprinklers. The sprinklers area attached to PVC pipe risers.

As indicated on the Application for Permit, the original beneficial use for the spring water was to divert the water to a cistern for domestic internal use. However, the right holder later discovered that the spring production was inadequate to meet the right holder's water requirements. The right holder drilled a ground water well for domestic use, and the spring water is diverted to a 300-gallon steel water storage tank for irrigation of the fruit trees and garden.

OVERLAP ANALYSIS:

Point of Diversion: There are no point of diversion overlaps for Water Right Permit No. 67-14548.

Place of Use: There are no place of use overlaps for Water Right Permit No. 67-14548.

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

RATE &/OR STORAGE RECOMMENDED FOR LICENSING

Description	Rate of Flow (cfs)		Storage (af)
Permit Amount	0.04	&/or	N/A
Beneficial Use Limit	0.04	&/or	N/A
System Measurement	0.05 (theoretical)	&/or	N/A
Proof Fee Amount	1.00	&/or	N/A
Recommended Amount	0.04	&/or	N/A

H. RECOMMENDATIONS

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
DOMESTIC	03/15 to 10/31	0.040 CFS	0.60 AFA
	<u>Totals:</u>	0.040 CFS	0.60 AFA

2. Recommended Amendments

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

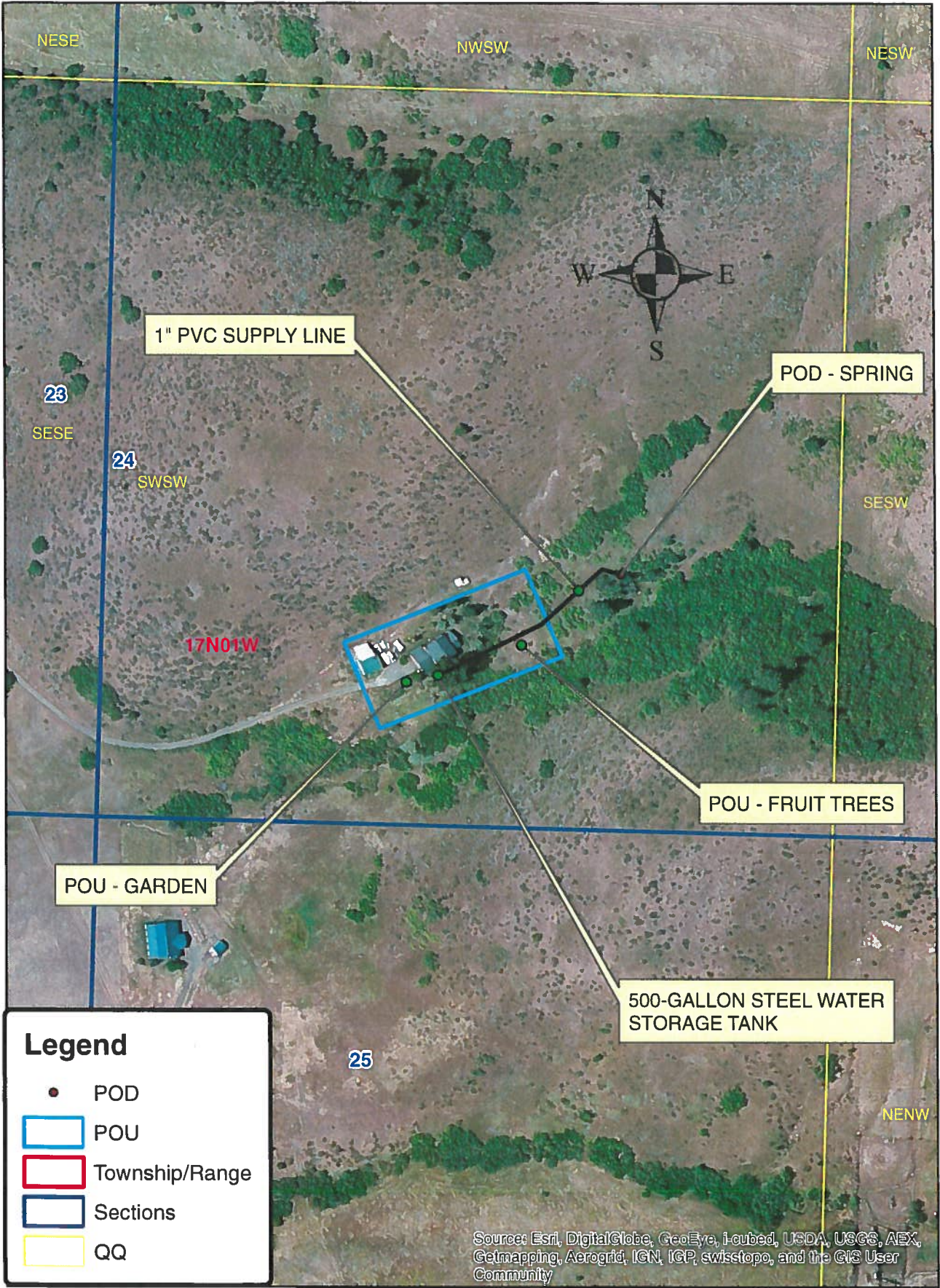
___ Change P.U. as reflected above ___ Add P.U. as reflected above ___ Other

I. AUTHENTICATION

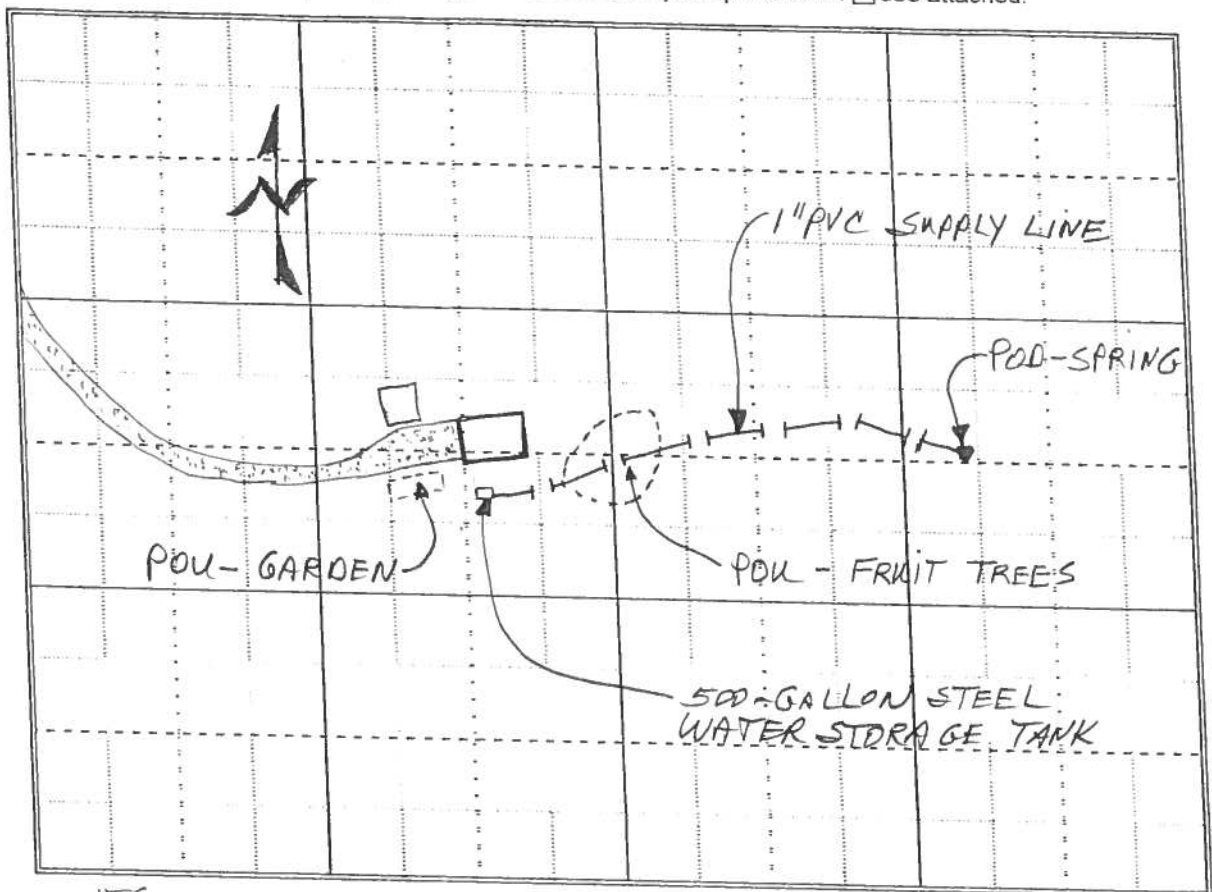
Field Examiner's Name Rick Collingwood Date 12/6/13
 Reviewer _____ Date _____

67-14548

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

FIELD EXAM PHOTOS

Water Right Permit: 67-14548

Field Exam Date: 7-26-13

PLS: SW1/4, SW1/4 Section 24, T.17N, R.01W.

Field Examiner: RC



Point of Diversion: Location of buried spring box located northeasterly of home and 300-gallon steel water storage tank.



View southwesterly of the 1" PVC supply line from the spring box and a 300-gallon steel water storage tank located southerly of the home.



View of the 1" PVC supply line discharging to the top of the 300-gallon steel water storage tank, and a $\frac{3}{4}$ -hp centrifugal pump with a $\frac{3}{4}$ " PVC discharge line. Water is pumped from the water storage tank to irrigate a garden area and fruit trees.



Place of Use: View easterly of the fruit trees irrigated by a drip-line irrigation system.



Place of Use: View westerly of the garden area irrigated by rotary and spray sprinklers on PVC pipe risers.

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
2735 Airport Way
Boise, Idaho 83705-5082

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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
Interim Director

June 21, 2013

John Cole
209 Mariposa
Hailey, ID 83333

RE: Scheduling Field Exam for Water Right Permit No. 67-14548

We are planning to **conduct water right field examinations** in the vicinity of the above-referenced permit **during the week of July 15, 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 0.04 cfs of spring water for domestic use for 1 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 July 12, 2013, to conduct the exam during the week of July 15, 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 appreciate your attention to this matter and I look forward to hearing from you.

Sincerely,

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