

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 77-14279

Exam Date: 8/15/2013

1. Current Owner: CHRISTOPHER BROWN
PO BOX 92
YELLOW PINE ID 83677
(208)633-9878

DAWN BROWN
PO BOX 92
YELLOW PINE ID 83677
(208)633-9878
2. Accompanied by: Susan Matlock
Phone No: (208) 633-6207
Address: Unknown
Relationship to Permit Holder: Friend

3. SOURCE

SPRING

TRIBUTARY

SINKS

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 77-2132, 77-4056
2. Other water rights with the same point of diversion: None

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

SPRING NE1/4SW1/4SW1/4 Sec. 21, Twp 19N, Rge 08E, B.M.
VALLEY County

Method of Determination: Arc Map (Aerial Photo) – GPS Latitude N.44°57.931', Longitude W.115°29.455'; 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
19N	08E	21											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	A.O. Smith	0.5	BG06	Red Lion	1 1/4"

*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. Pump not operating during the field exam. Right holder's were not home.

E. FLOW CALCULATIONS

Additional Computation Sheets Attached

Measured Method: (Theoretical Horsepower Equation)

$$Q = 8.8 \times 0.7 \times 0.5/10 + (2.31 \times 30) = 3.08/79.30 = 0.04 \text{ cfs}$$

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

$$HP = 0.5$$

$$Z = 10' \text{ (Estimated)}$$

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

Appears that the current 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: N/A

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

Water from a spring located behind the right holder's property is collected in a 2' diameter concrete spring box. The spring box and pump are located in a small brick enclosure near the northeast property corner.

DOMESTIC USE:

A ½-hp centrifugal pump diverts water from a 2' concrete spring box through a 1 ¼" PVC suction line. The spring water is used for domestic use for one home and irrigation of lawn and landscaping. Irrigation is accomplished with hoses and various types of sprinklers. Currently, the internal domestic use water is supplied by the Yellow Pine Water Users Association. However, according to the right holder, the spring had been used for domestic internal use prior to connecting to the Yellow Pine Water Users Association water supply system.

OVERLAP ANALYSIS:

Point of Diversion: There are no point of diversion overlaps for Water Right Permit No. 77-14279.

Place of Use: Water Right Permit No. 77-14279 and Yellow Pine Water Users Association Water Rights 77-2132 and 77-4045 have overlapping places of use.

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	0.04(theoretical)	&/or	N/A
Proof Fee Amount	0.20	&/or	N/A
Recommended Amount	0.04	&/or	N/A

H. RECOMMENDATIONS

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
DOMESTIC	01/01 to 12/31	0.040 CFS	N/A
<u>Totals:</u>		0.040 CFS	N/A

2. Recommended Amendments

___Change P.D. as reflected above ___Add P.D. as reflected above ☒None

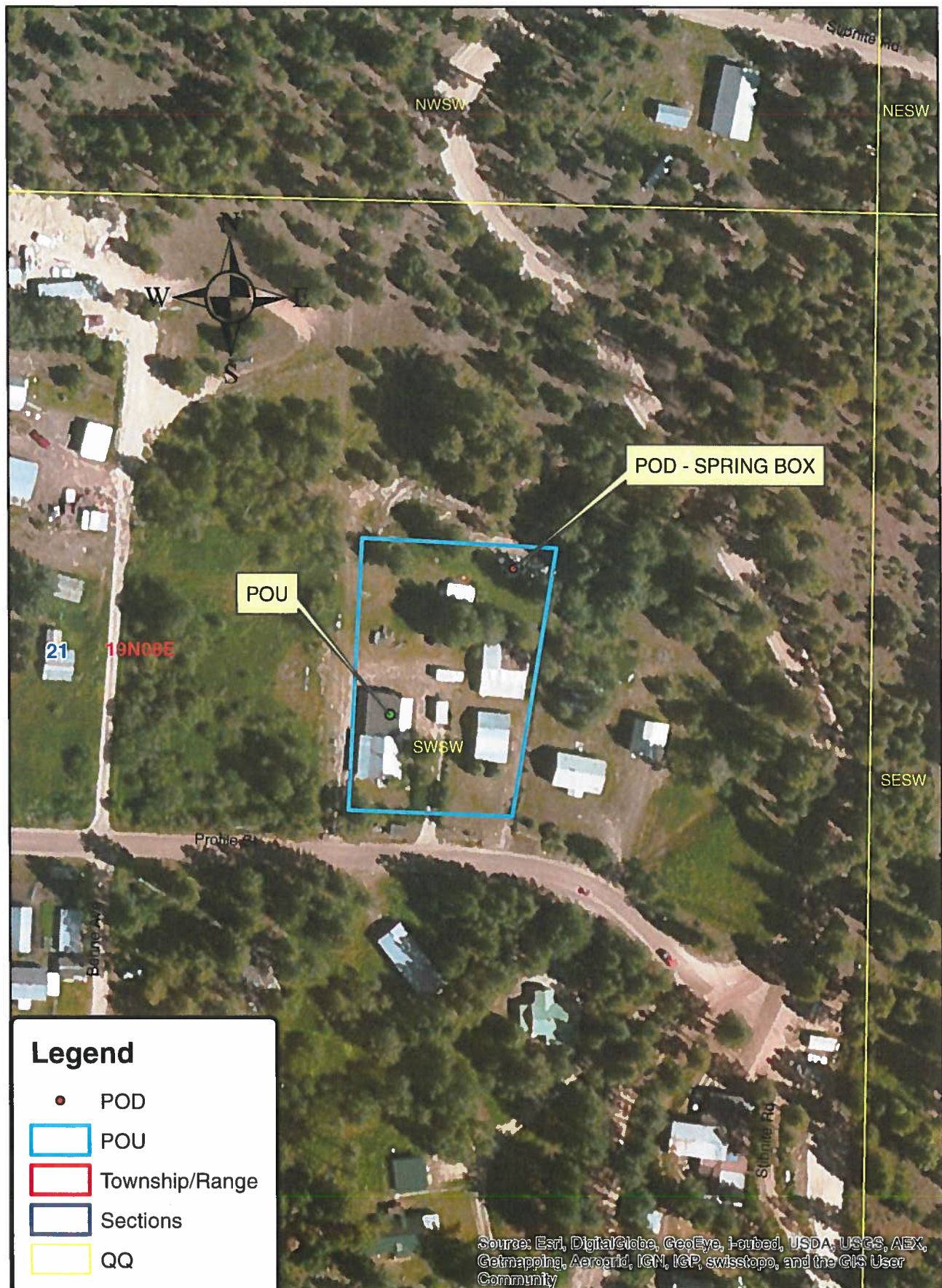
___Change P.U. as reflected above ___Add P.U. as reflected above ___Other

I. AUTHENTICATION

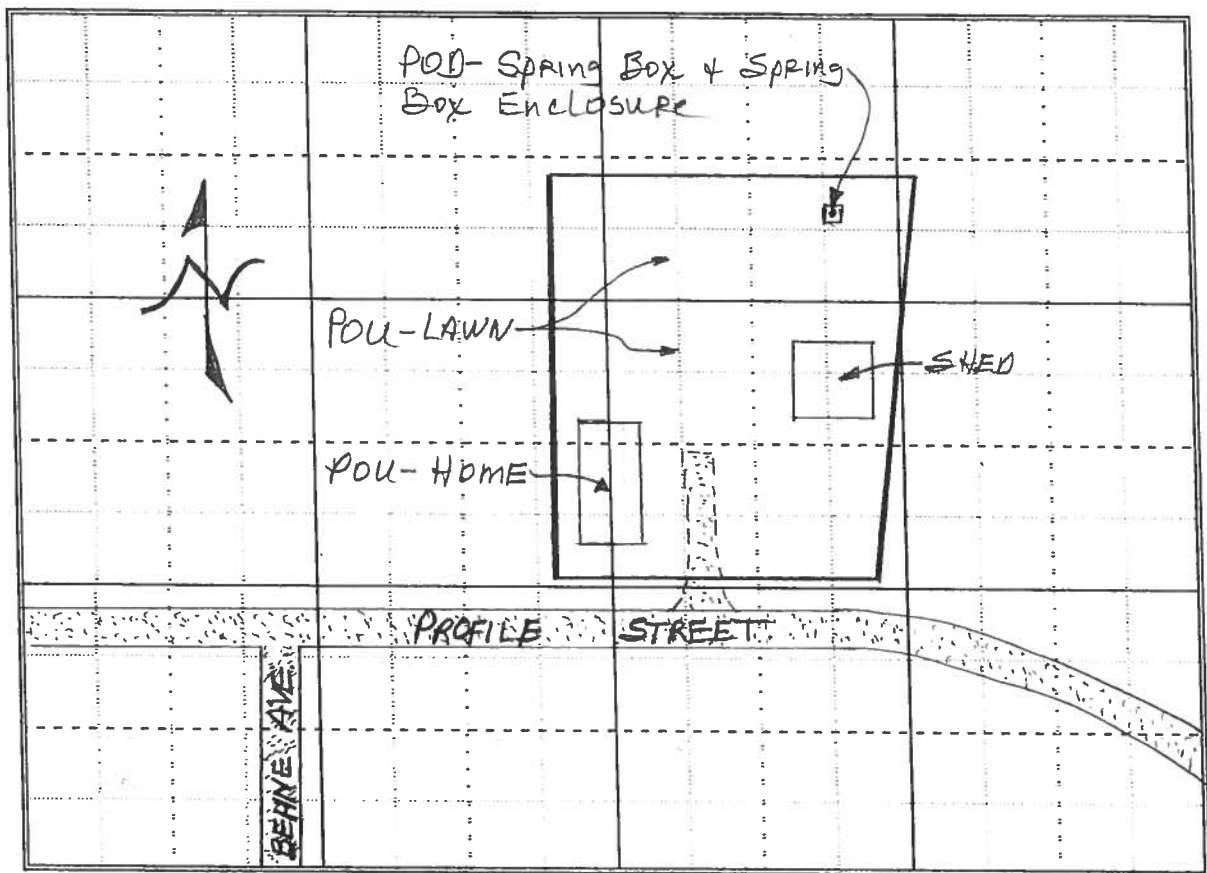
Field Examiner's Name Rick Collingwood Date 1/9/14
 Reviewer _____ Date _____

77-14279

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: 77-14279

Field Exam Date: 8-15-13

PLS: SW1/4, SW1/4 Section 21, T.19N, R.08E

Field Examiner: RC



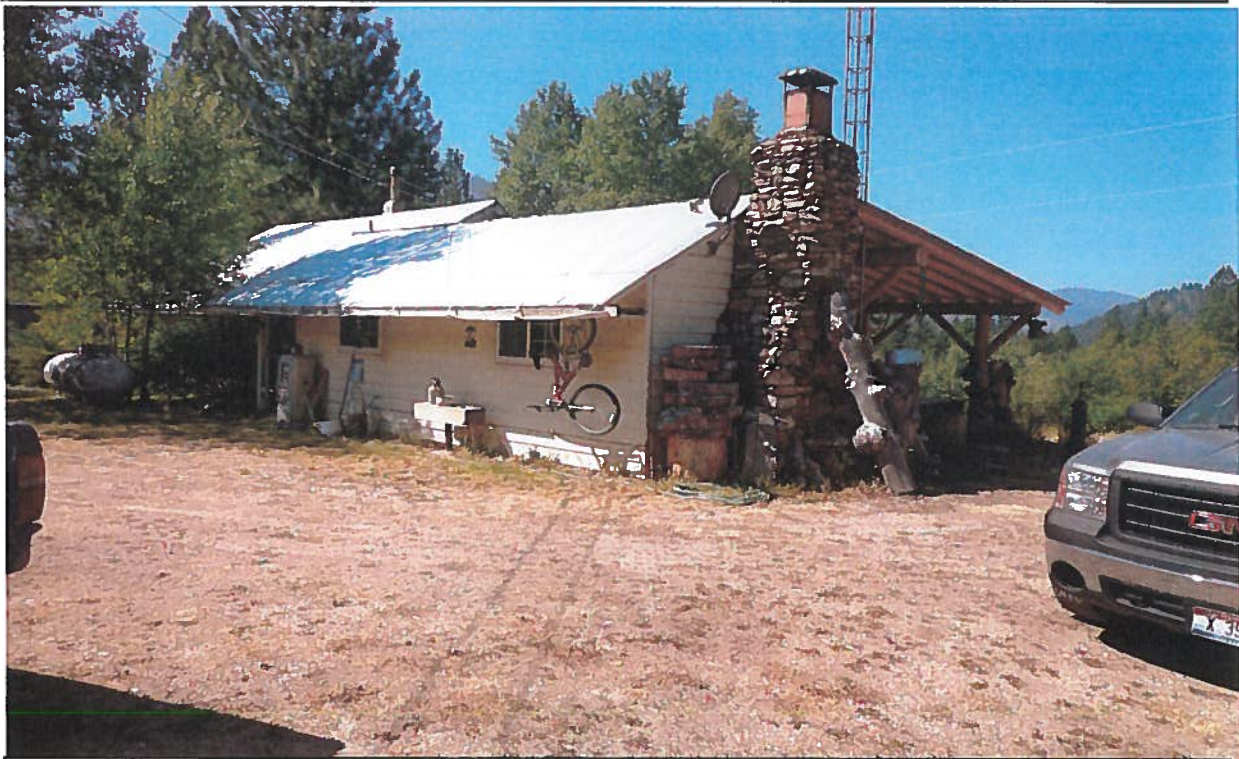
Point of Diversion: View northwesterly of a small enclosure which contains a 2' diameter concrete spring box. The spring water is diverted from a spring located behind the



Point of Diversion: View inside the small enclosure of the 3' diameter steel lid over the 2' diameter concrete spring box. A 1/2-hp centrifugal pump diverts spring water from the spring box through 1 1/4" PVC suction pipe.



Point of Diversion: View of the 2' diameter concrete spring box and float switch.



Place of Use: View southwesterly of the home served by the spring water for domestic use.



State of Idaho

DEPARTMENT OF WATER RESOURCES

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

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C. L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Interim Director

July 12, 2013

Christopher and Dawn Brown
P.O. Box 92
Yellow Pine, ID 83677

RE: Scheduling Field Exam for Water Right Permit No. 77-14279

We are planning to **conduct water right field examinations** in the vicinity of the above-referenced permit **on August 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 from a spring 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 August 2, 2013, to conduct the exam on August 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.