

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 2-10182

Exam Date: 6/15/2012

1. Current Owner: BRAD EVANS
RT 1 BOX 119
MARSING ID 83639
(208)896-4663
- And/Or
- SELINA EVANS
RT 1 BOX 119
MARSING ID 83639
(208)896-4663
2. Accompanied by: Selina Evans
Phone No: (208) 896-4663
Address: Rt. 1 Box 119, Marsing, ID 83639
Relationship to Permit Holder:

3. SOURCE

SNAKE RIVER

TRIBUTARY

COLUMBIA RIVER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: Gem Irrigation District
2. Other water rights with the same point of diversion: None

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

SNAKE RIVER

L5 SE1/4SW1/4

Sec. 17, Twp 03N, Rge 04W, B.M.

OWYHEE County

Method of Determination: Arc Map (Aerial Photo)

2.

PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	
03N	04W	17												6.5					6.5
														L 5					

Total Acres: 6.5

Method of Determination: Arc Map (Aerial Photo)

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>
		7.5		Berkley	JPL1509T / 37E285X77

*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. Lawn area consisted of pop-up sprinklers. Pasture irrigation not in operation due to no livestock.

E. FLOW CALCULATIONS Additional Computation Sheets Attached

Measured Method: (Theoretical)

$$HP = 7.5$$

$$P = 62 \text{ psi}$$

$$Z = 10'$$

$$Q = 8.8 \times 0.7 \times HP/Z + (2.31 \times P)$$

$$Q = 8.8 \times 0.7 \times 7.5/10 + (2.31 \times 62) = 46.2/153.22 = 0.30 \text{ cfs}$$

$$Q(\text{theoretical}) = 0.30 \text{ cfs} > 0.13 \text{ cfs (permit)}$$

Appears irrigation pumping system can attain the permit diversion rate of 0.13 cfs.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 6.5 \times 4.5 = 29.3 \text{ AFA}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.13 \times 260 \times 1.9835 = 67.0 \text{ AFA}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 29.3 \text{ AFA}$$

2. Volume Calculations for Other Uses: N/A

G. NARRATIVE/REMARKS/COMMENTS**IRRIGATION SYSTEMS:**

Water for lawn and pasture irrigation is pumped from the Snake River. A 5' diameter concrete manhole collects water for pumping from a 4" screened supply line which extends approximately 10 feet beyond the river bank. A 7.5 hp pump, located at the northeast corner of the property, diverts water from the concrete manhole for the lawn and pasture pressurized irrigation systems.

The lawn pressurized irrigation system is comprised of four (4) stations, with approximately fourteen (14) pop-up sprinkler heads per station. Each station operates for 10 minutes 5-days a week to irrigate 1.5 acres of lawn and landscaping.

The pasture pressurized irrigation system for the pasture area closest to the home, is comprised of 'Big Gun' sprinklers. The southern pasture has been gravity irrigated with 4" gate PVC pipe. However, with no livestock at the present time, this pasture is not currently being irrigated. Total pasture area irrigated is 5.0 acres.

OVERLAP:

The right holder has irrigation shares through the Gem Irrigation District. However, a neighbor removed the diversion structure from an irrigation ditch located near the right holder's southern property line. Surface water from the Gem Irrigation District has not been available to the right holder for 2 to 3 years.

RATE &/OR STORAGE RECOMMENDED FOR LICENSING

Description	Rate of Flow (cfs)		Storage (af)
Permit Amount	0.16	&/or	36.0
Beneficial Use Limit	0.16	&/or	N/A
System Measurement	0.30(theoretical)	&/or	N/A
Proof Fee Amount	0.20	&/or	20.0
Recommended Amount	0.13	&/or	29.3

* VOLUME N/A Snake R. Irr. e. b. w. R. w. k. s. 8/14/12

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

Condition No.6 – Due to the removal of a diversion structure by a property owner, the right holder does not have access to the surface water rights from the Gem Irrigation District. The right holder was using the surface water for irrigation of the southern pasture land prior to the removal of the diversion structure.

H. RECOMMENDATIONS

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
IRRIGATION	03/01 to 11/15	0.130 CFS	29.3 AFA
<u>Totals:</u>		0.130 CFS	29.3 AFA

8/14/12

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

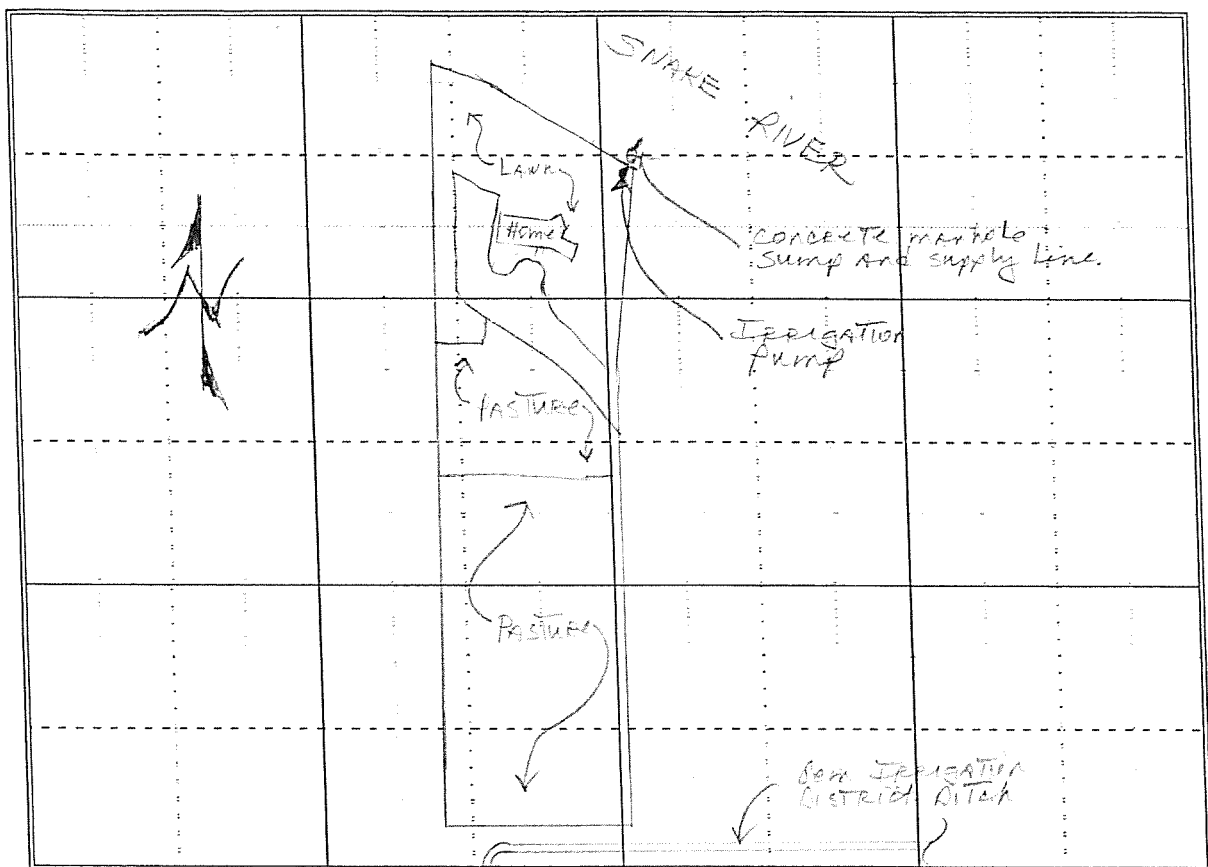
I. AUTHENTICATION

Field Examiner's Name *Rick Collingwood* Date *8/9/12*

Reviewer _____ Date _____

Form 219 07/11

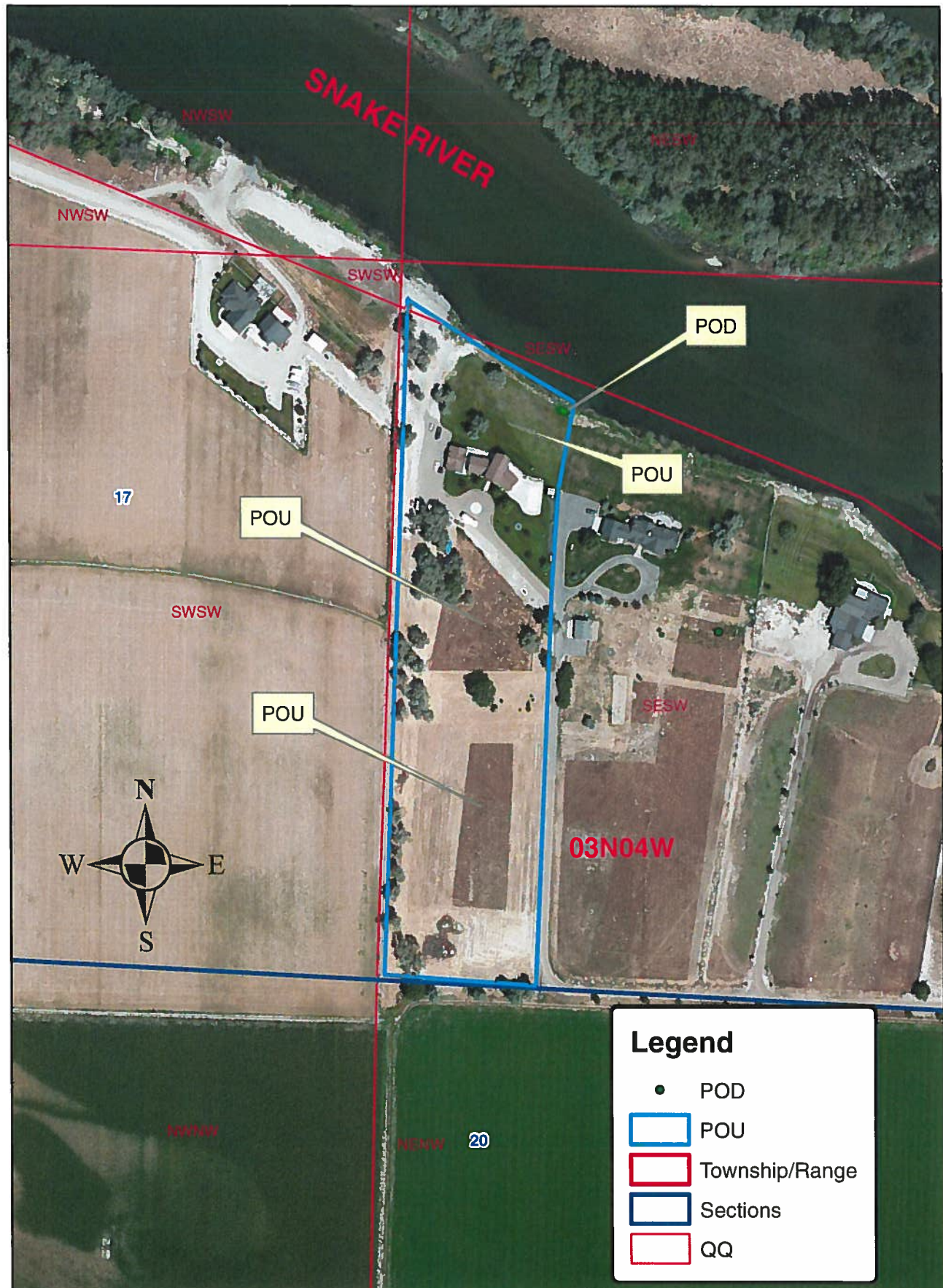
3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe diameter (inside), as applicable. Use the space provided or ☐ see attached.



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

02-10182
Gov't. Lot 5



U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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FIELD EXAM PHOTOS

Water Right Permit: 02-10182

Field Exam Date: 6-15-12

PLS: SE1/4, SW1/4 Section 17, T.3N, R.04W.

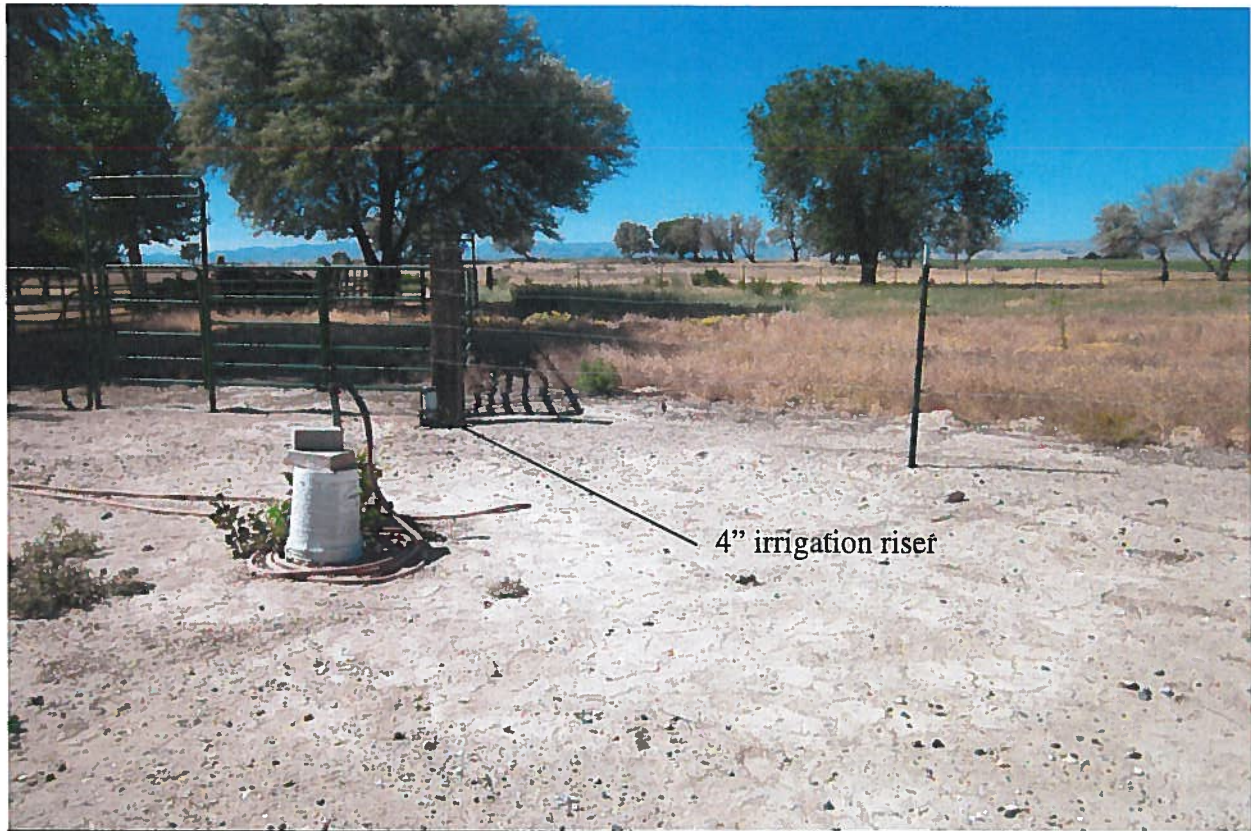
Field Examiner: RC



Point of Diversion: View westerly of concrete manhole sump and pump. A portion of the place of use (lawn) is shown between home and Snake River.



Place of Use: View southwesterly of back lawn between home and Snake River.



Place of Use: View southerly of pasture land nearest to home. An irrigation riser is shown next to corner of corral and gate. Irrigation pipe, 4" pipe, is connected to the riser for irrigation of the southern pasture in background. Gated pipe is located at the southern end of the pasture for flood irrigation of pasture.