

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 72-7432C

Exam Date: 7/18/2012

1. Current Owner: ROBERT J DIZES
PO BOX 117
CHALLIS ID 83226-0117
(208)879-2317
2. Accompanied by: Geraldine Dizes
Relationship to Permit Holder: Wife

3. **SOURCE**

GROUND WATER

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 L4 SW1/4NW1/4NE1/4 Sec. 28, Twp 13N, Rge 19E, B.M.
CUSTER County

Method of Determination: GPS 44 25.960/114 13.415

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>	
13N	19E	28		2.4			.6												3.0
				L 4			L 2												

Total Acres: 3

PLACE OF USE:

DOMESTIC

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>	
13N	19E	28		X			X												
				L 4			L 2												

Method of Determination:

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****Pump Serial No. or Discharge**

<u>ID No.*</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Size</u>
No Tag	Submersible	3.5 hp			

D. FLOW MEASUREMENTS**E. FLOW CALCULATIONS**

Measured method: Theoretical Yield

$$Q = \frac{8.8 \times (\text{hp}) \times (\text{eff})}{H}$$

Where: hp = **3.5 hp** (per Owner)

Eff = efficiency = 70% assumed

H = total head = pumping level + (2.31 x system pressure)

H = 20' + (2.31 x 40) = 112.4

$$\frac{8.8 \times 3.5 \times .70}{112.4} = \mathbf{0.19 \text{ cfs}}$$

Irrigation: 3 acres x 0.03 cfs/acre = **0.09 cfs**

Domestic: **0.04 cfs**

Total = 0.09 + 0.04 = **0.13 cfs**

F. VOLUME CALCULATIONS

Irrigation: 3 acres X 3.5 afa/acre = **10.5 afa**

Domestic: in-house use = **0.6 afa**

G. NARRATIVE/REMARKS/COMMENTS

Water right 72-7432 was originally filed as an irrigation and domestic water right to water 15 acres and service one home. In 1995 the water right was split into three parts, each property was assigned 5 acres of irrigation. Water right 72-7432C was retained by the original owner and has the Domestic use along with the irrigation.

During the field exam the owner was able to show that 3 acres of the property have been irrigated during the development period. There is also a home for the domestic use. The well supplies water for only this water right. A theoretical yield shows the well is capable of producing 0.19 cfs. Based on the information gathered during the field exam it is recommended that this right be licensed for 3 acres of irrigation, a domestic use for one home, and a total flow rate of 0.13 cfs.

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>
IRRIGATION	04/01 to 11/01	0.090 CFS	10.50 AF
DOMESTIC	01/01 to 12/31	0.040 CFS	0.60 AF
<u>Totals:</u>		0.130 CFS	11.10 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 ___ Other

I. AUTHENTICATION

Field Examiner's Name

Date

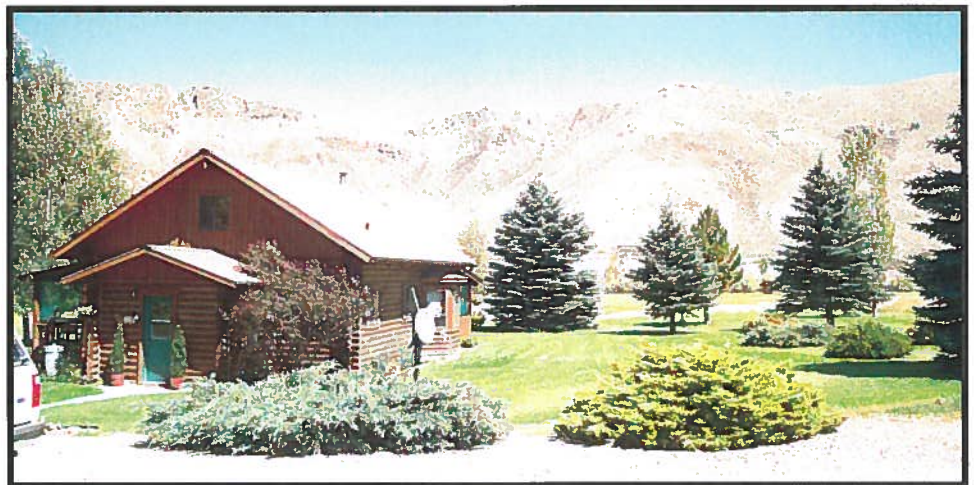
Reviewer

Date

Nathan Erickson
Joe Merwin

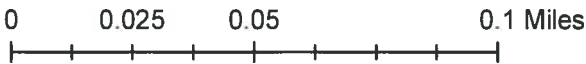
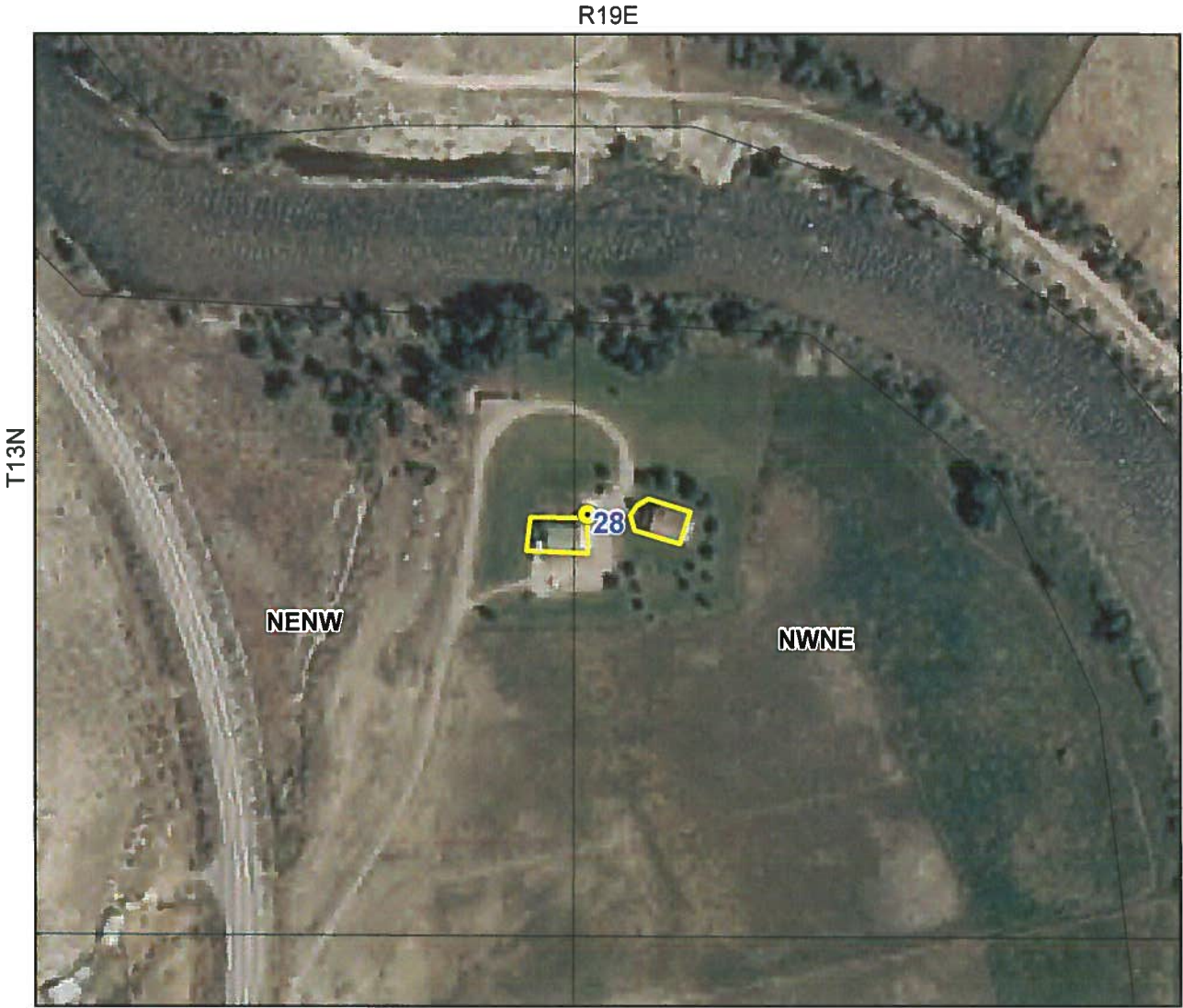
8/28/12

9/28/12



State of Idaho
Department of Water Resources
Attachment To Water Right License
72-7432C

This map depicts the DOMESTIC place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.



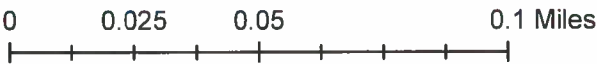
- Point of Diversion
- Place Of Use Boundary
- Townships
- PLS Sections
- Quarter Quarters



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This map depicts the IRRIGATION place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.

R19E



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

