

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 3-10263
Exam Date: 12/19/13

1. Current Owner: KELLI MCCARTY
14178 BENDIER LN
BAKER CITY OR 97814
(509) 758-1543

And

DAVID MCCARTY
14178 BENDIER LN
BAKER CITY OR 97814
(509) 758-1543

2. Accompanied by:

Phone No:

Address:

Relationship to Permit Holder:

3. SOURCE

SNAKE RIVER

TRIBUTARY

COLUMBIA RIVER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 85-7091
2. Other water rights with the same point of diversion:

C. DIVERSION AND DELIVERY SYSTEM**1. LOCATION OF POINT(S) OF DIVERSION:**

SNAKE RIVER L3 NE1/4SW1/4 Sec. 14, Twp 31N, Rge 05W, B.M. NEZ PERCE County

Method of Determination: Digitized

2.

PLACE OF USE: DOMESTIC

Twp Rge Sec	NE				NW				SW				SE				Totals
31N 05W 14	<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>	
									X								L 3

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.

<u>Well or Diversion</u> <u>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</u> <u>Size</u>
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*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

1.

<u>Measurement</u> <u>Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>
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2. Measurements:

E. FLOW CALCULATIONS

____ Additional Computation Sheets Attached

Measured Method:

Per the application for permit, the electric pump discharges at a rate of 13 gpm = 0.03 cfs

Back-calculating from theoretical pump flow rate using 0.03 cfs discharge, 70% efficiency, 20 feet of lift, and 40 psi results in a pump power of 0.5 HP.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

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

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

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

2. Volume Calculations for Other Uses:

Standard in-house domestic use = 0.6 AF

Standard exterior use = 0.6 AF

Total = 1.2 AF

G. NARRATIVE/REMARKS/COMMENTS

This permit was in-office field examined on 12/19/13 by myself, Craig Tesch. This permit authorizes the diversion of surface water to be used for domestic purposes. Surface water is supplied from the Snake River by an electric pump south of Lewiston, Idaho, in Hells Canyon.

Water is used for domestic purposes including standard indoor use for one household (cabin). Water is also used to irrigate a small lawn. The river and pump are located approximately 150 feet west of the cabin. Per the application for permit, the electric pump discharges at a rate of 13 gpm, or 0.03 cfs. Back-calculating from theoretical pump flow rate using 0.03 cfs discharge, 70% efficiency, 20 feet of lift, and 40 psi results in a pump power of 0.5 HP. Pump discharge is less than the requested diversion rate of 0.04 cfs.

The diversion rate to be licensed under this right will be limited to 0.03 cfs. The standard diversion volume is 0.6 AF each for internal and external domestic use, for a combined maximum volume of 1.2 AF. Water right 85-7091 has an overlapping POU for a spring within the same 40-acre tract, but the POD is for a different owner on a different tax lot.

The license will be conditioned to include a fish screen on the pump intake line. A small system such as this would need a small trash screen on the intake for the pump to operate and not burn out, and the size of the pump shouldnt produce a significant approach velocity.

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>
DOMESTIC	01/01 to 12/31	0.030 CFS	1.20 AF
<u>Totals:</u>		0.030 CFS	1.20 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 Craig Tesch Date 12/30/13

Reviewer Daniel A. Miller Date 12-31-13



Process	Basin Sequence	Draft	Owner	Source	POD/ POU	NE NE	NW NE	SW NE	SE NE	NE NW	NW NW	SW NW	SE NW	NE SW	NW SW	SW SW	SE SW	NE SE	NW SE	SW SE	SE SE	Total Acres
Water Permit	3-10263	N	MCCARTY, DAVID;	SNAKE RIVER	POU									X								0
Water Right	3-10263	Y	MCCARTY, DAVID;	SNAKE RIVER	POU									X								0
Water Right	3-7052	N	MCCARTY, HEDRICK, HAROLD	SNAKE RIVER	POU				X													0
Water Right	3-7054	N	REICHERT, GENE;	SNAKE RIVER	POU				X													0
Water Right	85-15217	N	REICHERT, UNITED STATES OF AMERICA ACTING	UNNAMED STREAM	POU													X				0
Water Right	85-7091	N	ANDERSON, MERLIN J	SPRING	POU									X								0