

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 37-22900

Exam Date: 4/19/2016

1. Current Owner:

KEITH O NEIL HELMICK 16 E INDIAN CREEK RD MAYFIELD ID 83716 (208)386-9679

And/Or

SANDRA R HELMICK 16 E INDIAN CREEK RD MAYFIELD ID 83716 (208)386-9679

2. Accompanied by: Corey Skinner and Allen Merritt, IDWR

Phone No: NA

Address: NA

Relationship to Permit Holder: IDWR employees

3. SOURCE: SPRING

TRIBUTARY: MALAD RIVER

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 NW¼SE¼NE¼ Sec. 31, Twp 01S, Rge 11E, B.M. ELMORE County

Method of Determination: ArcMap and field visit

2.

PLACE OF USE: DOMESTIC

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
01S	11E	31				X													

Method of Determination: ArcMap and field visit

3.

Delivery System Diagram Attached (required). Indicate all major components and distances between components.

X 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.

X Aerial Photo Attached (required for irrigation of 10+ acres).X Photo of Diversion and System Attached

4.

Well or Diversion ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
Spring		1		Submersible	

*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date

2. Measurements: Per Beneficial Use Exam rules, no measurement was necessary.

E. FLOW CALCULATIONS

Measured Method: NA

 Additional Computation Sheets Attached**F. VOLUME CALCULATIONS**

1. Volume Calculations for Irrigation: NA

 $V_{I.R} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$ $V_{D.R} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 =$ $V = \text{Smaller of } V_{I.R} \text{ and } V_{D.R} =$

2. Volume Calculations for Other Uses: Standard volume for domestic use = 0.6 AF for in-house use and 0.6 AF for irrigation around home for a total of 1.2 AF.

G. NARRATIVE/REMARKS/COMMENTS

The field exam for permit 37-22900 was completed on April 19, 2016, with IDWR employees Corey Skinner and Allen Merritt also present. The source of water (POD) is a spring which is situated near the river bottom approximately 50 feet lower and 210 feet away from the cabin (POU). A 1.0 HP submersible pump is located about 5 feet below ground level in a 14" diameter vertical CMP. The water is fed into a 1" plastic pipe which sits on the surface of the ground until it is near the house, where it is buried. A very limited amount of landscape vegetation is located near the home, so an irrigation component was allowed in the volume calculation. The flow rate was not measured per Beneficial Use Exam rules (< 0.25 cfs), so the permitted rate of 0.02 cfs is recommended for licensing. The volume is comprised of 0.6 AF for in-house use and 0.6 AF for irrigation of ½ acre or less, for a total of 1.2 AF.

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	0.02 CFS	1.20 AF
	<u>Totals:</u>	0.020 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 ☐ None

I. AUTHENTICATION

Field Examiner's Name Jim B. Shyler Date 04/20/2016
 Reviewer _____ Date _____

Idaho Department of Water Resources



Legend

-  Township/Range
-  Sections
-  QQ



0 0.005 0.01 0.02 Miles



**Helmick
37-22900
System Diagram**

Field Exam 37-22900



View of POD looking northeast toward Malad River (arrow)

View into spring box



Field Exam 37-22900



Views of Helmick cabin – note limited landscape vegetation



Field Exam 37-22900

State of Idaho
Department of Water Resources

Attachment to Water Right License 37-22900

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

0 0.035 0.07 0.14 Miles



Field Exam 37-22900