

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 23-11335
Exam Date: 5/24/2017

1. Current Owner:
JOHN CARDIS 3465 N PINES WAY #104 WILSON WY 83014
2. Accompanied by: Jeff Freiberg, P.E.
Phone No: 208-529-8174
Address: 946 Oxbow Lane, Idaho Falls, ID 83404
Relationship to Permit Holder: Water System Designer

3. SOURCE:
GROUND WATER

TRIBUTARY:

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 23-11411
2. Other water rights with the same point-of-diversion: 23-11411

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

GROUND WATER SE¼NE¼ Sec. 26, Twp 01N, Rge 44E, B.M. BONNEVILLE County
GROUND WATER SE¼NE¼ Sec. 26, Twp 01N, Rge 44E, B.M. BONNEVILLE County

Method of Determination: GPS, Site 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	
01N	44E	25							X		X	X		X		X	X	X	
01N	44E	26				X									X				

Method of Determination: Aerial Photography and site 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
X 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
Well #1		10			
Well #2		10			

*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
Magnetic Flow Meters	Full profile magnetic meter	Ultra mag			4"	

2. Measurements:

Meter readings from two installed magnetic flow meters (ultra mags)

E. FLOW

Additional Computation Sheets Attached

CALCULATIONS

Measured Method:

Installed meter readings: Well #1 43.0 gpm

Well #2 44.0 gpm

Combined rate = 87.0 gpm = 0.19 cfs

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: N/A

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = \text{N/A}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = \text{N/A}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = \text{N/A}$$

2. Volume Calculations for Other Uses:

Domestic (in-house) use for 64 homes X 0.6 af/home = 38.4 acre-feet

G. NARRATIVE/REMARKS/COMMENTS

Water delivery system consists of two submersible pumps (10hp) diverting water through two four inch interconnected mainline. The four inch mainline is piped to two water tanks; the "mid mountain tank" and the "top tank". Storage capacity of mid mountain tank is 8,000 gallons. Storage capacity of the top tank is 132,000 gallons. Water is diverted into the mid mountain tank and then to the top tank. From the top tank water is distributed down to the individual lots through an eight inch pipeline. 64 lots have water hookups. There are currently 4 homes built. Domestic use under this license will cover 64 homes in-house use only. Right 23-11411 will cover the irrigation up to one half acre for 54 of the 64 lots described under this right. Ten of these lots are located along Palisades Creek and will use the creek for irrigation purposes. Rights 23-11335 and 23-11411 will be limited to 0.19 cfs.

Have conditions of permit approval been met? X Yes No**H. RECOMMENDATIONS****1. Recommended Amounts**

BENEFICIAL USE
DOMESTIC

PERIOD OF USE
01/01 to 12/31

DIVERSION RATE
0.19 CFS

ANNUAL VOLUME
38.4 AF

Totals:

0.190 CFS

38.40 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 B/ak Jordan Date 5/31/2017

Reviewer _____ Date _____

Pump House



Inside Pump House



Flow meter reading
44.0 gpm



flow meter reading
43.0 gpm



Top Tank 132,000 gallon



Mid Mountain tank
8000 gallon

Buried tank