

STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES  
BENEFICIAL USE FIELD REPORT

**A. GENERAL INFORMATION**

Permit No: 23-11411  
Exam Date: 5/24/2017

1. Current Owner:  
JOHN T CARDIS PMB NO 508  
PO BOX 30000 JACKSON WY 83002 (307)733-2421

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: 23-11335
2. Other water rights with the same point-of-diversion: 23-11335

**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  |        |
| 01N | 44E | 26  |    |    |    |    |    |    |    |    |    |    |    |    | X  |    |    |    |        |

Method of Determination: Aerial Photography and site visit.

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 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 (1/2 acre irrigation) use for 54 homes X 0.6 af/home = 32.4 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. This right is for the irrigation up to ½ acres for 54 platted lots upon which a home has been constructed and receiving water for in-house use described under water right 23-11335. Water right 23-11335 is for 64 homes (in-house use only). 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**

| <u>BENEFICIAL USE</u> | <u>PERIOD OF USE</u> | <u>DIVERSION RATE</u> | <u>ANNUAL VOLUME</u> |
|-----------------------|----------------------|-----------------------|----------------------|
| DOMESTIC              | 01/01 to 12/31       | 0.19 CFS              | 32.4 AF              |
|                       | <u>Totals:</u>       | 0.190 CFS             | 32.40 AF             |

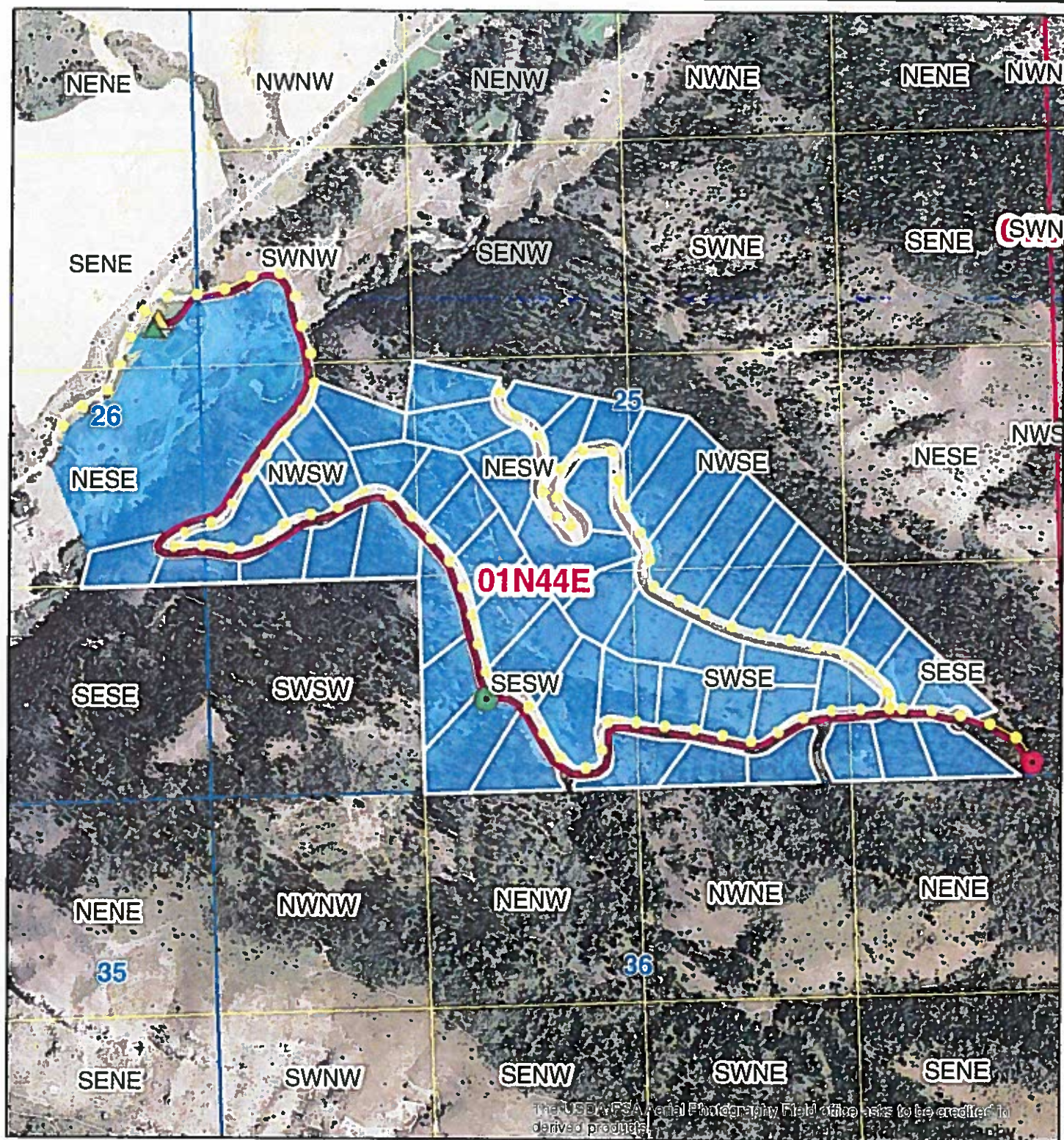
**2. Recommended Amendments**

☐ 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 Blake Sordun Date 5/31/2017

Reviewer \_\_\_\_\_ Date \_\_\_\_\_



#### POD

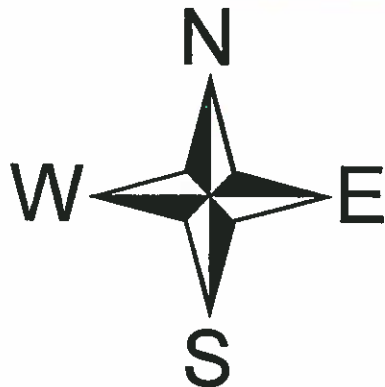
- ▲ Well 1
- ▲ Well 2

#### Tank\_GAL

- 8000
- 132000

—●—●— 8 Inch Pipeline

— 4 inch Pipeline



Domestic\_(0.5\_Irrigation)\_Place\_of\_Use

Domestic\_(in-house)\_Place\_of\_Use

Township/Range

Sections

QQ

0 425 850 1,700 Feet

1 inch = 866 feet

Pump House



Inside Pump House



Flow meter reading  
44.0 gpm

PUMP 2



flow meter reading  
43.0 gpm

PUMP 1



Top Tank 132,000 gallon



Midmountain tank  
8000 gallon

Buried tank