

STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES  
**IN-OFFICE REVIEW of FIELD REPORT**

**A. GENERAL INFORMATION**Permit No: 27-12208

Exam Date: 01/07/2015

1. Does this qualify for an in-office field exam (IDAPA 035.02.r)?   X  Y   N
- Irrigation of 5 acres or less
  - Storage of up to 14.6 AF for stockwater purposes only
  - Any use other than irrigation or storage, if the combined diversion rate is 0.24 cfs or less**
  - Other: < >

2. Current Owner: Name: USFS
- Owner of Record Correct?   X  Y   N
- Address of Record Correct?   X  Y   N
- If No: Address

3. Beneficial Use Fees have been paid:   X  Y   N Receipt No: E040487

4. **SOURCE****TRIBUTARY**

Spring

Diamond Creek

Method of Determination: Spring and spring enclosure visible on GIS Imagery.

Change in Source:   Y   X  N**B. OVERLAP REVIEW**

1. Other water rights with the same place of use:   X   NO Overlap

| Water Right No. | Source | Purpose of Use | Basis |
|-----------------|--------|----------------|-------|
|                 |        |                |       |
|                 |        |                |       |

Comments:

2. Other water rights with the same point of diversion:    NO Overlap

| Water Right No. | Source         | Purpose of Use | Basis       |
|-----------------|----------------|----------------|-------------|
| 27-12208        | Johnson Spring | Administrative | Water Right |
|                 |                |                |             |

Comments: 27-11644 is a Federal Reserve Right with a priority date of 1907.

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

| Source | Gov Lot | ¼  | ¼  | ¼  | Sec. | Twp. | Rge. |      | County  |
|--------|---------|----|----|----|------|------|------|------|---------|
| Spring |         | NW | NW | NW | 21   | 08S  | 45E  | B.M. | Caribou |
|        |         |    |    |    |      |      |      | B.M. |         |
|        |         |    |    |    |      |      |      | B.M. |         |

Method of Determination: Spring and spring enclosure visible on GIS Imagery. GPS from USFS.

Change in POD?   X  Y   N Amendment Required?   X  Y   N

2. **PLACE OF USE:** Use: Stockwater

| TW<br>P       | RGE | Sec      | NE |        |        |    | NW |        |    |    | SW |        |        |    | SE |        |        |    | Total<br>s |
|---------------|-----|----------|----|--------|--------|----|----|--------|----|----|----|--------|--------|----|----|--------|--------|----|------------|
|               |     |          | NE | N<br>W | S<br>W | SE | NE | N<br>W | SW | SE | NE | N<br>W | S<br>W | SE | NE | N<br>W | S<br>W | SE |            |
| 08S           | 45E | 21       |    |        |        |    | X  |        |    |    |    |        |        |    |    |        |        |    |            |
|               |     | Lot<br># |    |        |        |    |    |        |    |    |    |        |        |    |    |        |        |    |            |
| Total Acres = |     |          |    |        |        |    |    |        |    |    |    |        |        |    |    |        |        |    |            |

Method of Determination: Pictures and GPS provided by USFS. Stock drink directly out of pond. Per email from Steve Spencer dated 01/15/2015, no troughs developed under this permit. Pond would likely be not visible on GIS Imagery because of its small size and tree cover in the area. It is also possible that the pond was constructed in 2014 and is therefore not visible on the 2013 imagery.

Change in POU? ☒ X ☐ Y ☐ N Amendment Required? ☒ X ☐ Y ☐ N

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

Indicate weir size/pipe as applicable.

☐ Aerial Photo Attached (required for irrigation of 10+ acres).

☐ Photo of Diversion and System Attached

| 4. Well or<br>Diversion<br>Identification No.* | Motor Make | Hp | Motor Serial No. | Pump Make | Pump Serial No. or<br>Discharge Size |
|------------------------------------------------|------------|----|------------------|-----------|--------------------------------------|
|                                                |            |    |                  |           |                                      |

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

**D. FLOW MEASUREMENTS**

| 1. Measurement<br>Equipment | Type | Make | Model No. | Serial No. | Size | Calib. Date |
|-----------------------------|------|------|-----------|------------|------|-------------|
|                             |      |      |           |            |      |             |
|                             |      |      |           |            |      |             |

2. Measurements:

**E. FLOW CALCULATIONS**

☐ Additional Computation Sheets Attached

Measured Method:

0.02 cfs below IDWR Standards per Application Processing Memo #3 for 501-600 cattle.

Measurement = 0.02 cfs

Permit allowed = 0.02 cfs

License recommend for 0.02 cfs.

**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 = Smaller of  $V_{I.R.}$  and  $V_{D.R.}$  = \_\_\_\_\_

## 2. Volume Calculations for Other Uses:

IDWR Standards per Application Processing Memo #3 for 501-600 cattle is 8.1 afa.

$546 \times 0.0134 = 7.3$  afa

Output volume for pond from 06/01 to 10/31 is 6.1 AF – see attached worksheet.

**Measurement = 6.1 afa**

**Permit allowed = N/A**

**License recommend for 6.1 afa.**

## G. PURPOSE OF USE

Irrigation \_\_\_\_Y\_\_\_\_N # Stock \_\_\_\_546\_\_\_\_ Domestic # of Homes \_\_\_\_\_

Other:

Change in Purpose of Use? \_\_\_\_Y\_\_\_\_X\_\_\_\_N

Method of Determination: Information provided by USFS

If Yes: From Use \_\_\_\_\_ To Use \_\_\_\_\_ Amount \_\_\_\_\_ CFS \_\_\_\_\_ AFA \_\_\_\_\_

## H. NARRATIVE/REMARKS/COMMENTS

Season of Use: 04/15 – 10/31

In Wild and Scenic Watershed: Salmon River Excluding Middle Fork

Headgate: 3.5, Cons. Use 2.5

### In Water District 27

Stock drink directly out of pond. Per email from Steve Spencer dated 01/15/2015, no troughs developed under this permit.

27-11644 is a Federal Reserve Right with a priority date of 1907. It is most likely for original use of the spring for stockwater and perhaps the Guard Station. 27-11644 is for 0.02 cfs. If it is for stockwater use, the combined cfs of 27-11644 and 27-12208 is 0.04 cfs, still well below the IDWR Standards per Application Processing Memo #3 for 501-600 cattle of 0.14 cfs. No combined limits needed.

A stockwater storage right is not required for this right if the total storage is less than 12926.5 gal/day. This is the amount that can be filled in one 24 hour period.

$(0.02 \text{ cfs} \times 646272 = 12926.5 \text{ gal/day})$

Storage pond under this right cannot exceed 12426.5 gals of storage.

$12926.5 \text{ gal} - 550 \text{ gal in storage tank} = 12426.5 \text{ gals.}$

Pond Dimensions provided by USFS per email from Steve Spencer dated 01/15/2015 – 15 ft X 30 ft X 4 ft

Pond Capacity estimate:

Ellipsoid Area =  $\pi(a/2)(b/2)$   $3.14(15/2)(30/2)(4) \times 7.48052 \text{ gal/ft}^3 = 10575 \text{ gal}$

Per Field Examiners Handbook for V shaped ponds  $(15)(30)(4 \times 0.4) \times 7.48052 \text{ gal/ft}^3 = 5386 \text{ gal}$

Both estimates are under 12426 gal/day

This is consistent with the email statement from Steve Spencer that the pond capacity is less than 10,000 gal.

Pond would likely be not visible on GIS Imagery because of its small size and tree cover in the area. It is also possible that the pond was constructed in 2014 and is therefore not visible on the 2013 imagery.

Have conditions of permit approval been met? \_\_\_\_X\_\_\_\_Yes \_\_\_\_\_No

**I. RECOMMENDATIONS****1. Recommended Amounts**

| <u>BENEFICIAL USE</u> | <u>PERIOD OF USE</u> | <u>DIVERSION RATE</u> | <u>ANNUAL VOLUME</u> |
|-----------------------|----------------------|-----------------------|----------------------|
| Stockwater            | 06/01 to 10/31       | 0.02 CFS              | 6.1                  |
| <u>Totals:</u>        |                      | 0.02 CFS              | 6.1                  |

**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

Other: <   >

**J. AUTHENTICATION**

Field Examiner's Name *Danelli F. Smith* Date 01-20-15

Reviewer *Daniel F. Smith* Date 2-20-15

### Calculator - Read Me

#### Step 1 - Calculate No. of Days

Is It a Leap Year?

☐ YES

☒ NO

Enter Starting Date:

June

1

June - 1

Enter Ending Date:

October

31

October - 31

Total Number of Days (Starting and Ending Dates Inclusive)

153

#### Step 2 - Input Flow Rate Value

Select Units

Cubic Feet per Second

Input Flow Rate

0.02 CFS

#### Step 3 - Select Units of Output Volume

Select Units

Ac-Ft

Output Volume

6.1 Ac-Ft

[illegible]

## Favreau, Danielle

---

**From:** Spencer, Steven M -FS [sspencer@fs.fed.us]  
**Sent:** Monday, January 26, 2015 11:56 AM  
**To:** Favreau, Danielle  
**Subject:** RE: Permit 27-12208  
**Attachments:** 27-12208 POU Map.pdf; 27-12208 POD Aerial Photo.pdf

Danielle,

The text of the amendment is OK with how things are now. However I think the aerial photo in the amendment package may have the POU located about 300 feet west of it's true location. The first attachment shows my concern. The little red arrows are individual trees I used as reference points when attempting to navigate myself through the woods and establish the POU location at a place I've never been to before. Let me know what you think.

Next, I see in my rush to get information to you that I failed to send the aerial image I had for the POD. My apologies. The second attachment is the pinpoint POD aerial photo. After you look at it if anything changes in the thoughts expressed below about the POD we can file a transfer to get the POD changed on 27-11644. It's so remote and such a small use that it will probably never be looked at again.

*Steve*

---

**From:** Favreau, Danielle [<mailto:Danielle.Favreau@idwr.idaho.gov>]  
**Sent:** Friday, January 23, 2015 1:07 PM  
**To:** Spencer, Steven M -FS  
**Subject:** RE: Permit 27-12208

Hi Steve,

Please review the attached amendment to 27-12208. If the USFS agrees with the amendment, please have it signed by the appropriate personnel and returned to the department with the appropriate fees.

Even though the spring is very close to the QQ line, I left the description in 08S45E21 NENW to remain consistent with the associated right 27-11644.

Please contact me if you have any questions.

Danielle

Danielle Bruno-Favreau, GISP  
GIS Analyst  
Idaho Dept. of Water Resources  
322 East Front St.  
PO Box 83720  
Boise, ID 83720-0098

This electronic message contains information generated by the USDA solely for the intended recipients. Any unauthorized interception of this message or the use or disclosure of the information it contains may violate the law and subject the violator to civil or criminal penalties. If you believe you have received this message in error, please notify the sender and delete the email immediately.



U.S. Fish and Wildlife Service

## National Wetlands Inventory

27-12208 POD

Jan 15, 2015

No operational layers  
selected or no legend  
available



This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

### User Remarks:

Spring box west of willow. Lat 42.7184 Long -111.2066



0 80 160 320 480 640 Feet

## Legend

- ESPA
- GCDB Township/Range
- GCDB Section
- GCDB Quarter-Quarter
- Counties



## Favreau, Danielle

---

**From:** Spencer, Steven M -FS [sspencer@fs.fed.us]  
**Sent:** Thursday, January 15, 2015 12:23 PM  
**To:** Favreau, Danielle  
**Subject:** RE: Permit 27-12208  
**Attachments:** 27-12208 Forest Aerial Image.jpg; 27-12208 POU Aerial Photo.pdf; 27-12208 Spring box closeup.JPG; 27-12208 POU Aerial Photo.pdf; 27-12208 Pond looking north.JPG

Danielle,

This is the information I've been able to pull together for 27-12208.

- The first attachment, Forest Aerial Image, shows the overall layout of the final project
  - The POD is very close to the QQ line. The second attachment shows a 'pin point' location with GPS coordinates. I'll have to rely on you to determine which QQ it actually falls in. The third attachment is a photo of the spring box.
  - The POU is noticeably at a different location than is shown on the map that accompanied the application. The fourth attachment shows the location of the pond and GPS coordinates. There are no troughs, just this pond.
- The fifth attachment is a photo of the pond. The pond dimensions at maximum fill are estimated to be 15 X 30 X 4 feet. Allowing for the shape and slope or contour of the sides it has an estimated maximum capacity of 10,000 gallons.
- The underground storage tank was already in place. It is located at Lat 42.7183 Long -111.2035.

I'm anticipating an amendment will be needed. When that is ready please email it to me and I'll get it taken care of and back to you.

If you have any questions about this information or need additional information please let me know.

Thank you,

*Steve*



**Steven M. Spencer**  
**Water Use Specialist**

**Forest Service**  
**Intermountain Region**

p: 208-365-7055

[sspencer@fs.fed.us](mailto:sspencer@fs.fed.us)

1805 Hwy 16 Rm 5

Emmett, ID 83617

<http://www.fs.usda.gov/r4>



**Caring for the land and serving people**

---

**From:** Favreau, Danielle [<mailto:Danielle.Favreau@idwr.idaho.gov>]

**Sent:** Wednesday, January 07, 2015 4:30 PM

**To:** Spencer, Steven M -FS  
**Subject:** Permit 27-12208

Hi Steve,

I am working the licensing review of Permit 27-12208 and have run into a few snags. I've decided to keep the email short as I think the attached map illustrates the issues.

Could you please provide the following information about 27-12208.

|                      |                                                                                                                                                                                                                                                            |  |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Trough Information:  | Please indicate if the trough locations on provided map are correct. If possible, GPS coordinates of trough locations – latitude/longitude and photographs of each trough.                                                                                 |  |
| Pond Information     | Size/Capacity of Pond. Longest Y and X axis' as well as depth (i.e. length, width and depth). Please indicate if the pond location on provided map are correct. If possible, GPS coordinates of pond location – latitude/longitude and photograph of pond. |  |
| Pipeline Information | Please indicate if system diagram is correct on provided map.                                                                                                                                                                                              |  |

As shown on the map, I believe one of the troughs is in the SWNE instead of the NWNE and an amendment may be required.

Also, there is no stockwater storage use for permit 27-12208 leading me to assume that the pond is small enough that it, along with the troughs and storage tank can be filled with the permitted cfs in a 24 hour period. Please provide the dimensions of the pond so that I can verify its capacity.

I hope that you can provide me the information by February 15, 2015.

I believe that we can move this permit in rather short order and keep it from becoming oldie and moldy.

Thank you again for all your help.

Danielle

Danielle Bruno-Favreau, GISP  
GIS Analyst  
Idaho Dept. of Water Resources  
322 East Front St.  
PO Box 83720  
Boise, ID 83720-0098

This electronic message contains information generated by the USDA solely for the intended recipients. Any unauthorized interception of this message or the use or disclosure of the information it contains may violate the law and subject the violator to civil or criminal penalties. If you believe you have received this message in error, please notify the sender and delete the email immediately.









U.S. Fish and Wildlife Service

## National Wetlands Inventory

27-12208 POU

Jan 15, 2015

No operational layers  
selected or no legend  
available



This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

### User Remarks:

Pond Lat 42.7183 Long -111.2022



U.S. Fish and Wildlife Service

## National Wetlands Inventory

27-12208 POU

Jan 15, 2015

No operational layers  
selected or no legend  
available



This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

### User Remarks:

Pond Lat 42.7183 Long -111.2022

## Favreau, Danielle

---

**From:** Favreau, Danielle  
**Sent:** Wednesday, January 07, 2015 4:30 PM  
**To:** 'Spencer, Steven M -FS'  
**Subject:** Permit 27-12208  
**Attachments:** m\_27\_12208.pdf

Hi Steve,

I am working the licensing review of Permit 27-12208 and have run into a few snags. I've decided to keep the email short as I think the attached map illustrates the issues.

Could you please provide the following information about 27-12208.

|                      |                                                                                                                                                                                                                                                            |  |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Trough Information:  | Please indicate if the trough locations on provided map are correct. If possible, GPS coordinates of trough locations – latitude/longitude and photographs of each trough.                                                                                 |  |
| Pond Information     | Size/Capacity of Pond. Longest Y and X axis' as well as depth (i.e. length, width and depth). Please indicate if the pond location on provided map are correct. If possible, GPS coordinates of pond location – latitude/longitude and photograph of pond. |  |
| Pipeline Information | Please indicate if system diagram is correct on provided map.                                                                                                                                                                                              |  |

As shown on the map, I believe one of the troughs is in the SWNE instead of the NWNE and an amendment may be required.

Also, there is no stockwater storage use for permit 27-12208 leading me to assume that the pond is small enough that it, along with the troughs and storage tank can be filled with the permitted cfs in a 24 hour period. Please provide the dimensions of the pond so that I can verify its capacity.

I hope that you can provide me the information by February 15, 2015.

I believe that we can move this permit in rather short order and keep it from becoming oldie and moldy.

Thank you again for all your help.

Danielle

Danielle Bruno-Favreau, GISP  
GIS Analyst  
Idaho Dept. of Water Resources  
322 East Front St.  
PO Box 83720  
Boise, ID 83720-0098

