

STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES  
IN-OFFICE REVIEW/BENEFICIAL USE FIELD REPORT

**A. GENERAL INFORMATION**Permit No: 78-12388Exam Date: 10-1-2015

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: Steven or Linda Schweich  
Owner of Record Correct?   X   Y    N  
Address of Record Correct?    Y   X   N  
If No: Address

Address on the Proof of Beneficial Use is PO Box 81 Riggins, ID, 83549 (proof statement signed by permit holder)

3. Beneficial Use Fees have been paid:   X   Y    N Receipt No: C0

4. **SOURCE**   TRIBUTARY

Ground Water   >  Method of Determination:   <>  Change in Source:    Y    N**B. OVERLAP REVIEW**

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

| Water Right No. | Source       | Purpose of Use | Basis  |
|-----------------|--------------|----------------|--------|
| 78-12291        | Salmon River | Irrigation     | Permit |
|                 |              |                |        |

Comments: Permit 78-12291 is a permit for irrigation of the same property from the Salmon River. Proof for this permit is not due until 2017. Water rights 78-4016 (City of Riggins) and 78-12315 (Douglas and Sharon Boggan) is from a ditch on other side of the river per a memo by Craig Saxton in 78-12315.

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

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

Comments: This is the only water right diverted from this well. The diversion for 78-12291 is in the same 40 acre tract, but is from the river not ground water.

**C. DIVERSION AND DELIVERY SYSTEM**

1. **LOCATION OF POINT(S) OF DIVERSION:**

| Source       | Govt. Lot | ¼ | ¼  | ¼  | Sec. | Twp. | Rge. |      | County |
|--------------|-----------|---|----|----|------|------|------|------|--------|
| Ground water |           |   | NE | SE | 21   | 24N  | 1E   | B.M. | Idaho  |
|              |           |   |    |    |      |      |      | B.M. |        |
|              |           |   |    |    |      |      |      | B.M. |        |

Method of Determination: Aerial photos and GPS manually entered well log location data.

Change in POD?   X   N Amendment Required?   X   N2. **PLACE OF USE:** Use: Irrigation

| TWP | RGE | Sec   | NE |    |    |    | NW |    |    |    | SW |    |    |    | SE |    |    |               | Totals |
|-----|-----|-------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---------------|--------|
|     |     |       | NE | NW | SW | SE | NE | NW | SW | SE | NE | NW | SW | SE | NE | NW | SW | SE            |        |
| 24N | 1E  | 21    |    |    |    |    |    |    |    |    |    |    |    |    | D  |    |    |               |        |
|     |     | Lot # |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |               |        |
|     |     |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | Total Acres = |        |

Method of Determination: Aerial photos.

Change in POU?        N Amendment Required?        N   Delivery System Diagram Attached (required). Indicate all major components and distances between components.

Indicate weir size/pipe as applicable.

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

| 4. Well or Diversion Identification No.* | Motor Make | Hp                       | Motor Serial No. | Pump Make | Pump Serial No. or Discharge Size |
|------------------------------------------|------------|--------------------------|------------------|-----------|-----------------------------------|
| Well Tag #<br>D0053569                   |            | 1 Per Permit Application |                  |           |                                   |

\*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: Inhouse field exam, no measurement taken, see theoretical sheet.**E. FLOW CALCULATIONS**  X   Additional Computation Sheets Attached

Measured Method:

**Theoretical Calculation = 0.04 cfs****Permit allowed = 0.04 cfs****License recommend for 0.04 cfs.****F. VOLUME CALCULATIONS**

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = \underline{\quad X 3.5 \quad} =$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = \underline{\quad X 214 X 1.9835 \quad} =$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = \underline{\hspace{2cm}}$$

## 2. Volume Calculations for Other Uses:

This is a domestic use. According to processing memo #22, and Domestic use for in-house and yard irrigation can have up to 1.2 acre feet of annual water use. I am recommending 1.2 af for this permit.

## G. PURPOSE OF USE

Irrigation \_\_\_\_\_N # Stock \_\_\_\_\_ Domestic # of Homes 1

Other: &lt; &gt;

Change in Purpose of Use? \_\_\_\_Y X NMethod of Determination: Aerial photo shows one home.

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

## H. NARRATIVE/REMARKS/COMMENTS

This permit qualifies for an in-house field exam. The aerial photos show that a home was constructed on the property between 2011 and 2013. There is no tax lot data to confirm ownership, but the well drilling records show the well was drilled in the permit holder's name in next to the home.

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> |
|-----------------------|----------------------|-----------------------|----------------------|
| Domestic              | 01/01 to 12/31       | 0.04 CFS              | 1.2 AF               |
| <u>Totals:</u>        |                      | 0.04 CFS              | 1.2 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

Other: &lt; &gt;

## J. AUTHENTICATION – Daniel A. Nelson – Staff Hydrologist.

Field Examiner's Name

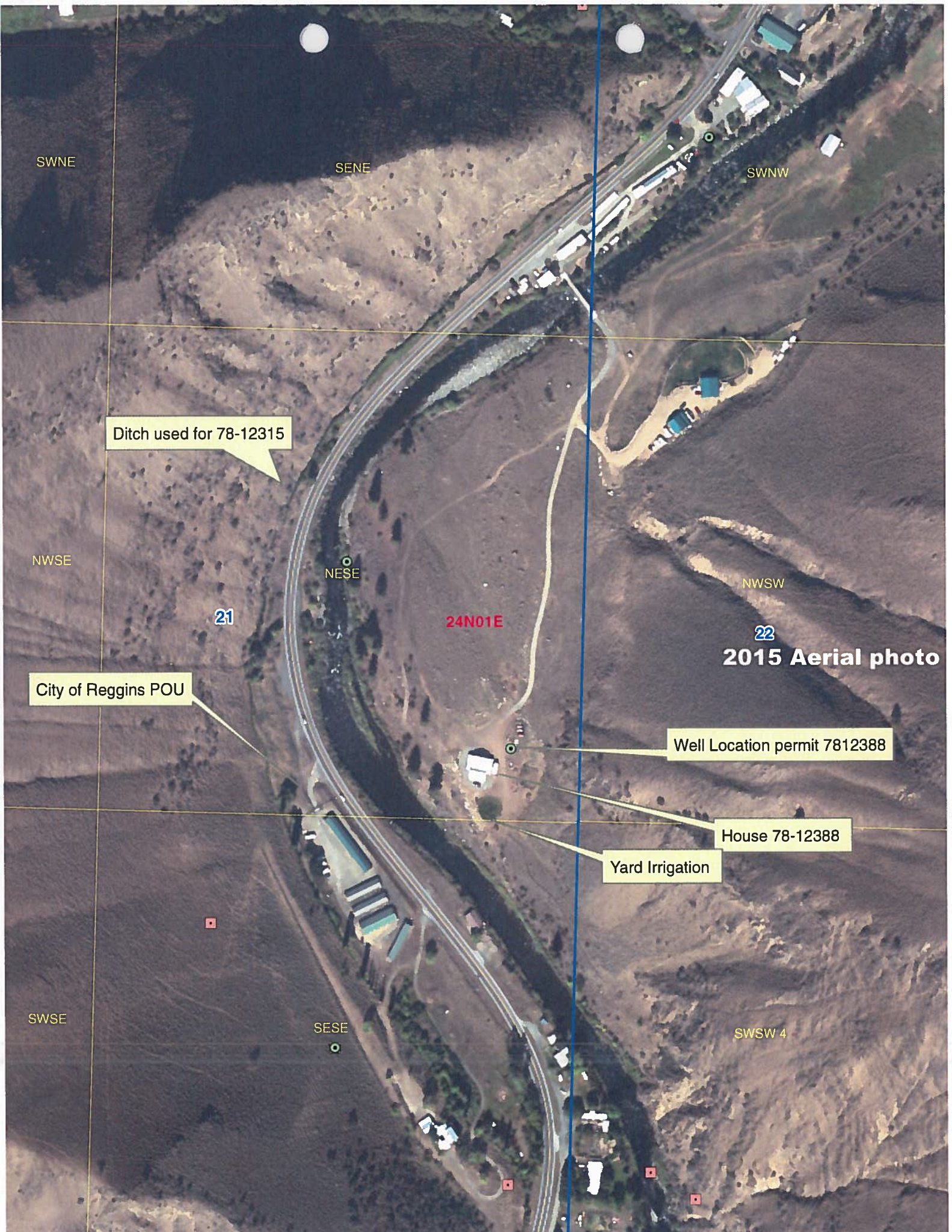


Date

10-1-15

Reviewer \_\_\_\_\_

Date \_\_\_\_\_



SWNE

SENE

SWNW

Ditch used for 78-12315

NWSE

21

NESE

24N01E

NWSW

22

2015 Aerial photo

City of Reggins POU

Well Location permit 7812388

House 78-12388

Yard Irrigation

SWSE

SESE

SWSW 4

THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

Water Right No.: 78-12388  
 Reviewer: Dan Nelson  
 Date of Review: 10/1/2015

P/D No.:

PUMP HORSEPOWER  
 BOOSTER HORSEPOWER

PUMPING LEVEL

DISCHARGE PRESSURE

RATE OF FLOW (cfs)

| Well #1 |
|---------|
|         |
| 1       |
| 0       |
|         |
| 40      |
|         |
| 40      |
|         |
| 0.05    |
| 21      |

| Well #2 |
|---------|
|         |
| 1       |
| 0       |
|         |
| 40      |
|         |
| 50      |
|         |
| 0.04    |
| 18      |

| Well #3 |
|---------|
|         |
| 1       |
| 0       |
|         |
| 40      |
|         |
| 60      |
|         |
| 0.03    |
| 15      |
| 0.04    |
| 18.05   |

The above calculates the formula =

$$Q = \frac{8.8 * (\text{Efficiency}) * \text{hp}}{\text{depth to water} + 2.31 * (\text{psi}) + \text{friction}}$$

Assumptions: %70 efficiency.  
 No Friction

Examiners Notes:

The application for permt states that the pump is 1 Hp pump. The lift was attained from the well log. The pressure is the standard pressure for a home of 40 to 60 psi. Pressure tanks have a turn on/off switch of 40 to 60 in most dometic homes.

# IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

856720

1. WELL TAG NO. D 000-53569

Drilling Permit No. 5

Water right or injection well #

2. OWNER: Steve & Linda Schwelch

Name Steve Schwelch

Address 1589 Brasswood

City hasucass State NV. Zip 89110

3. WELL LOCATION:

Twp. 24 North ☒ or South ☐ Rge. 1 East ☒ or West ☐

Sec. 21 1/4 NE 1/4 SE 1/4

Gov't Lot 1 County Id

Lat. N 45 ° 24 118 (Deg. and Decimal minutes)

Long. W 116 ° 19 276 (Deg. and Decimal minutes)

Address of Well Site Salmon Run off Hwy 55

City Riggins

Lot. 4 Blk.  Sub. Name Riverview Sub

4. USE:

☒ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation ☐ Thermal ☐ Injection

☐ Other

5. TYPE OF WORK:

☒ New well ☐ Replacement well ☐ Modify existing well

☐ Abandonment ☐ Other

6. DRILL METHOD:

☒ Air Rotary ☐ Mud Rotary ☐ Cable ☐ Other

7. SEALING PROCEDURES:

| Seal material    | From (ft) | To (ft)   | Quantity (lbs or ft) | Placement method/procedure |
|------------------|-----------|-----------|----------------------|----------------------------|
| <u>Bentonite</u> | <u>0</u>  | <u>18</u> | <u>12 Sacks</u>      | <u>Pour Dry</u>            |

8. CASING/LINER:

| Diameter (nominal) | From (ft) | To (ft)   | Gauge/Schedule | Material     | Casing Liner                        | Threaded                 | Welded                              |
|--------------------|-----------|-----------|----------------|--------------|-------------------------------------|--------------------------|-------------------------------------|
| <u>6"</u>          | <u>2</u>  | <u>58</u> | <u>250</u>     | <u>Steel</u> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 58'

9. PERFORATIONS/SCREENS:

Perforations ☐ Y ☒ N Method

Manufactured screen ☐ Y ☒ N Type

Method of Installation

| From (ft) | To (ft) | Slot size | Number/ft | Diameter (nominal) | Material | Gauge or Schedule |
|-----------|---------|-----------|-----------|--------------------|----------|-------------------|
|           |         |           |           |                    |          |                   |

Length of Headpipe  Length of Tailpipe

Packer ☐ Y ☒ N Type

10. FILTER PACK:

| Filter Material | From (ft) | To (ft) | Quantity (lbs or ft) | Placement method |
|-----------------|-----------|---------|----------------------|------------------|
| <u>None</u>     |           |         |                      |                  |

11. FLOWING ARTESIAN:

Flowing Artesian? ☐ Y ☒ N Artesian Pressure (PSIG)

Describe control device Well CAP

12. STATIC WATER LEVEL and WELL TESTS:

Depth first water encountered (ft) 30' Static water level (ft) 30'

Water temp. (°F) cold Bottom hole temp. (°F)

Describe access port Well CAP

| Well test:               | Test method:                                                                                                                           |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Drawdown (feet)          | Pump <input type="checkbox"/> Bailer <input type="checkbox"/> Air <input checked="" type="checkbox"/> Flowing <input type="checkbox"/> |
| Discharge or yield (gpm) |                                                                                                                                        |
| Test duration (minutes)  |                                                                                                                                        |
| <u>16'</u>               | <u>8</u>                                                                                                                               |
| <u>30</u>                |                                                                                                                                        |

Water quality test or comments: Have water Tested

13. LITHOLOGIC LOG and/or repairs or abandonment:

| Bore Dia. (in) | From (ft) | To (ft)   | Remarks, lithology or description of repairs or abandonment, water temp. | Water                                                            |
|----------------|-----------|-----------|--------------------------------------------------------------------------|------------------------------------------------------------------|
| <u>10</u>      | <u>0</u>  | <u>18</u> | <u>Top soil &amp; Boulders</u>                                           | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |
| <u>6</u>       | <u>18</u> | <u>30</u> | <u>Boulders</u>                                                          | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |
| <u>6</u>       | <u>30</u> | <u>58</u> | <u>Boulders</u>                                                          | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |

RECEIVED

AUG 28 2009

WATER RESOURCES  
WESTERN REGION

Completed Depth (Measurable): 58'

Date Started: 6/15/09 Date Completed: 6/16/09

14. DRILLER'S CERTIFICATION:

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Company Name all state Drilling Co. No. 561

\*Principal Driller: Daugherty Date 8/24/09

\*Driller  Date

\*Operator II  Date

Operator I  Date

\* Signature of Principal Driller and rig operator are required.