

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 65-23337
Exam Date: 8/10/2017

1. Current Owner:
DANIEL SHELTON
7881 DUTCH LN
PAYETTE ID 83661
(208) 642-9416

2. Accompanied by: Current Owner

3. **SOURCE:**
PAYETTE RIVER

TRIBUTARY:
SNAKE RIVER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: Lower Payette Ditch Co., Lake Reservoir Co.
2. Other water rights with the same point-of-diversion: None

C. DIVERSION AND DELIVERY SYSTEM1. **LOCATION OF POINT(S) OF DIVERSION:**

PAYETTE RIVER L3 (NE¼NW¼) Sec. 24, Twp 08N, Rge 05W, B.M. PAYETTE County

Method of Determination: Garmin GPS data points collected during visit. Digital PLSS maps used with ArcMap tools

2.

PLACE OF USE: STOCKWATER

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
08N	05W	24					X L 3												

PLACE OF 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	
08N	05W	24					6.1 L 3												6.1

Total Acres: 6.1

Method of Determination: Irrigated area found by field observation, using, imagery, and ArcMAP tools.

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
N/A	A.O Smith	5	214086M	Jacuzzi	3" PVC

*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
N/A	N/A	N/A	N/A	N/A	N/A	N/A

2. Measurements: A five gallon bucket test was conducted. Average of 2.53 seconds on five split trials.

E. FLOW CALCULATIONS

1. Flow calculations for irrigation

- 5 gal/2.53 sec = 1.97 gal/sec x 60 sec/min = 118.577 gpm x 1 cfs/448. 83 gpm = **0.26 cfs**
- Irrigation Standard: 0.02 cfs/acre x 6.1 acres irrigated = **0.12 cfs**

Permitted Flow: 0.18 cfs

Measured Flow: 0.26 cfs

Department Standard Flow: **0.12 cfs**

2. Flow calculations for Stockwater

Permitted Flow for 15 head: 0.02 cfs

Department Standard Flow for 20 head: **0.02 cfs****F. VOLUME CALCULATIONS**

1. Volume Calculations for Irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = (6.1 \text{ acres irrigated}) \times (4.5 \text{ af}) = \mathbf{27.5 \text{ af}}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = [0.12 \text{ (cfs)}] \times (260 \text{ irrigation days}) \times 1.9835 = \mathbf{61.9 \text{ af}}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = \mathbf{27.5 \text{ af}}$$

2. Volume Calculations for Other Uses: Stockwater

- 12 gpd/hd = N (0.0134) = 20 x (0.0134) = 0.268 = **0.3 af**
- 12 gpd/hd = N (0.0134) = 15 x (0.0134) = 0.201 = **0.2 af**

G. NARRATIVE/REMARKS/COMMENTS

Field exam was completed by agent Justin Shearer on August 10, 2017 and was accompanied by land owner Daniel Shelton. Mr Shelton is the active permit owner and original applicant. The application for permit was submitted on April 27, 2009 and proof of beneficial use was made November 2, 2010.

The applicant owns 9.2 acres of land in Payette County. Legal description of POU & POD were used to locate the property in the name of Daniel & Sharon Shelton. A map outlining the POU and POD was submitted with the application for permit and I found no errors or discrepancies in the information that was presented. The actual POD was a few hundred yards North than depicted, but this was a non-issue as it still fell within the permitted QQ of NE ¼ NW ¼ Lot 3.

Aerial imagery was used to determine irrigated acres. ArcMap tools were used to calculate a total area of 6.1 acres. Irrigated

acres have been consisted since the beneficial use development period. Overlap review for POU found only irrigation company rights belonging to the Lower Payette Ditch Co. and Lake Reservoir Co. however Mr. Shelton indicated that he does not receive any water shares from either company. No other overlap exists. No other water rights share the POD. During the exam it was observed that a 5 hp pump was installed on the Payette River. Motor was an A.O. Smith 5hp, serial no. 214086M paired with a Jacuzzi pump with 3" PVC discharge to six hand lines with riser stations that serve up to 20 Rainbird sprinkler heads. A split in the line to a hose bib produced water for stockwater purposes when needed.

Based on the information found during the field exam through conducting a 5 gallon bucket test the applicant's system is capable of a total diversion of roughly 118.5 gpm or 0.26 cfs. Mr. Shelton was permitted for 0.18 cfs. However, because the applicant has only developed 6.1 acres of irrigated land I am recommending a flow of 0.12 cfs and 27.5 af. Mr. Shelton indicated at the time of exam that the Stockwater use is for up to 20 mixed head at any point in time. The applicant was only permitted for up to 15 head which allows for 0.02 cfs and 0.2 af. The rate is the same for 15 or 20 head, however I am recommending the limited flow of 0.2 af as permitted.

A measuring and lockable device was installed as conditioned on the permit. Condition 01J was changed to R43 to require the owner to maintain the measuring device and lockable controlling works. Condition 26A was removed as per department licensing standards.

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>
IRRIGATION	03/01 to 11/15	0.12 CFS	27.5 AF
STOCKWATER	01/01 to 12/31	0.02 CFS	0.2 AF
<u>Totals:</u>		0.120 CFS	27.70 AF

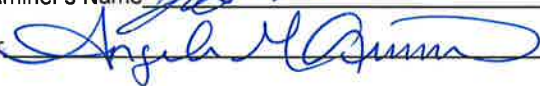
2. Recommended Amendments

☐ 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

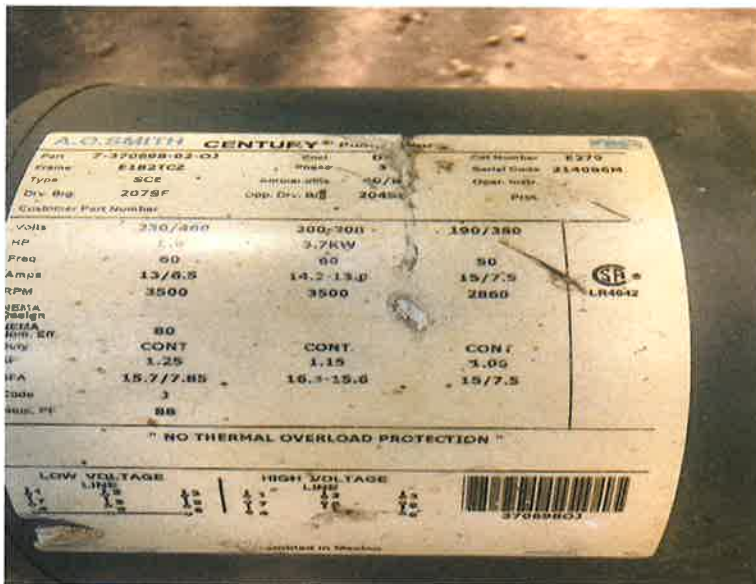
Field Examiner's Name  Date 10/19/2018

Reviewer  Date 10/19/18





Pump and Motor at
POD



Motor Specs



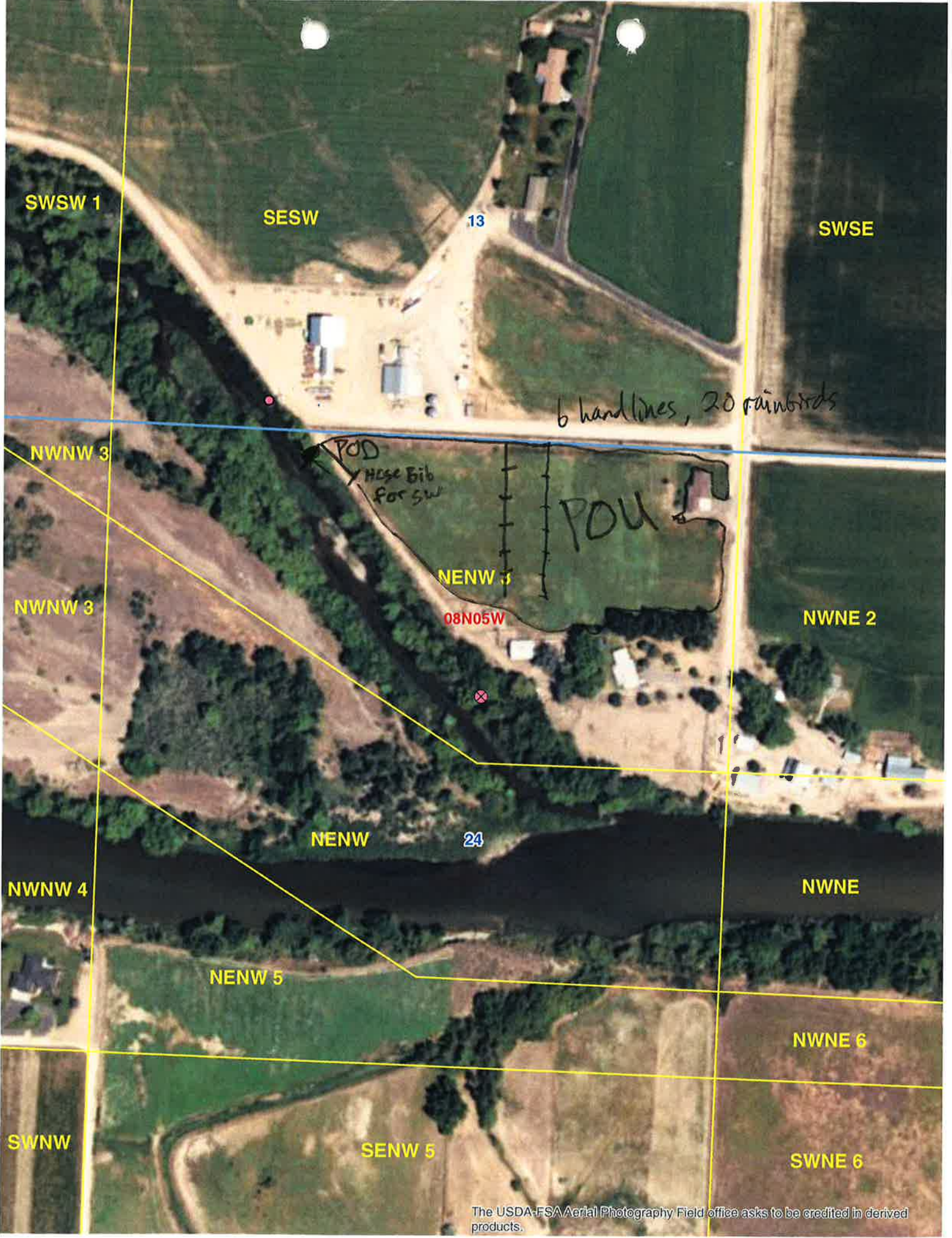
Flow meter
installed as per
permit conditions



Stockwater Hose
Bib



Irrigation POU: 6.1
acres of pasture



SWSW 1

SESW

13

SWSE

6 handlines, 20 rainbirds

NWNW 3

POD
Hose Bib
for SW

NENW 3

08N05W

NWNE 2

NWNW 3

NENW

24

NWNE

NWNW 4

NENW 5

NWNE 6

SNNW

SENW 5

SWNE 6



State of Idaho

DEPARTMENT OF WATER RESOURCES

Western Region • 2735 Airport Way • Boise, Idaho 83705-5082

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C.L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

June 29, 2017

DANIEL SHELTON
7881 DUTCH LN
PAYETTE, ID 83661

COPY

RE: Scheduling Field Exam for Water Right Permit No. 65-23337

Dear Permit Holder:

We are planning to conduct water right examinations in the vicinity of the above-referenced permit **this season**. An examination is needed to verify the water use in order to issue a water right license.

The above-referenced permit authorizes **0.180 CFS** from **PAYETTE RIVER** tributary to **SNAKE RIVER** for **IRRIGATION & STOCKWATER** use. **If you have developed a beneficial use and still own the place of use property, please contact me at your earliest convenience to schedule an examination.**

If you did not develop a beneficial use of water under the permit during the beneficial use period, a license cannot be issued and the permit should be relinquished. If that use was developed, but have ceased using the water and you currently carry no interest in it, please relinquish the permit by submitting the enclosed Relinquishment of Permit form (no fee required).

If you did develop a beneficial use of water under the permit, but you no longer own the place of use property identified in the permit, please submit the enclosed Assignment of Permit form with the applicable \$25 processing fee.

Please contact me within the next thirty (30) days at (208) 334-2190 to either schedule an examination or submit a relinquishment or assignment form. If you no longer own the place of use property and/or do not respond to this letter, the department will work with the current property owner to issue a license or void the permit.

Sincerely,

Justin Shearer
Water Resource Agent

Enclosures: Relinquishment of Permit form
Assignment of Permit form
Water Permit Report and Map