

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 96-9568

Exam Date: 09/18/2018

1. Current Owner:

LARRY L TREIBER 1575 HARTSVILLE TRL THE VILLAGES FL 32162-2269 AND/OR
GAIL G TREIBER 1575 HARTSVILLE TRL THE VILLAGES FL 32162-2269

2. Accompanied by: Larry Treiber / In-house exam

Phone No: (208) 264-0399

Address: P.O. BOX 311 Hope, ID 83836

Relationship to permit Holder: Permit Holder

3. **SOURCE:**

UNNAMED STREAM

Tributary

SINKS

Method of Determination: Arcmap and DRG**B. OVERLAP REVIEW**

1. Other water rights with the same place of use:

YES Overlap

Water Right No.	Source	Purpose of Use	Basis
96-4158	STRONG CREEK	IRRIGATION	STATUTORY CLAIM
96-4179	GROUND WATER	DOMESTIC	STATUTORY CLAIM

Comments: Water Rights 96-4158 and 96-4179 are located in the same 40 acre tract, but do not appear to have any relation to this license's POU.

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

NO Overlap

Water Right No.	Source	Purpose of Use	Basis

Comments: _____

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

UNNAMED STREAM NE¼ SE¼, Sec. 35, Twp 57N, Rge 01E, B.M. BONNER County

Method of Determination: Map and GPS. POD is located at -116°17.349, 48°14.521.

PLACE OF USE: IRRIGATION

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
57N	01E	35													0.5			0.1	0.6
57N	01E	36											0.1					L5	0.1

Total Acres: 0.7

Method of Determination: Arcmap.

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
Submersible pump	Unknown	1.0			

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
N/A						

2. Measurements: Unable to perform flow measurement due to inadequate piping requirements.

E. FLOW CALCULATIONS

Measured Method: There was very little information available to determine the flow rate. The permit limited the diversion rate to 0.03 cfs (generic rate for irrigation). Most 1 HP pumps are capable of pumping that amount of water, therefore, I am recommending the diversion be carried forward to licensing. There is no diversion rate for volume applied to this license.

Flow measurement not required as per IDAPA RULE 37.03.02.035.01.r.iii.

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 0.7 \text{ acres} \times 3.0 \text{ af} = 2.1 \text{ af}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.03 \text{ cfs} \times 213 \text{ days} \times 1.9835 = 12.7 \text{ af}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 2.1 \text{ af}$$

This is a surface water right, so no volume will be included on the water right license.

G. NARRATIVE/REMARKS/COMMENTS

This permit qualifies for an in-house field examination. Due to the uncertainty of the POD, a drive by exam was conducted with the applicant, Larry Treiber, which showed a submersible pump from a 1,000 gallon holding pond being used for irrigation purposes. At POD, applicant used 1 HP pump to serve a 14 zone, 3-to-7 head sprinkler system to irrigate at POU. The holding pond had a system in place to pipe overflow water back to the creek.

The 1.0 acres at POU applied to permit were adapted to 0.7 acres using field exam photographs and arcmap, which were used to trace out irrigated acreage at POU. Additionally, POU acreage was modified to proper PLS QQ acre designation using arcmap. A total of 0.7 acres will be licensed for this water right.

Applicant lives out of state, and resides at this property during summer months. At the time of field exam, the applicant had already winterized the irrigation system and the holding pond had been drained. The permit authorized a diversion rate of 0.03 cfs for irrigation uses. Although a 1 HP pump is capable of producing more than a 0.03 cfs flow rate, the applicant does not irrigate 24hr / 7days a week on his property. Acceptable rates of irrigation flow for small acreages allots for a diversion rate up to 0.03 cfs for irrigation of up to 5 acres without justification that the rate is greater than 0.02 cfs, and as such, the diversion rate of 0.03 cfs will be carried forward to licensing.

All conditions from permit shall remain on license. There are two water rights (96-4158 and 96-4179) that are in the same 40 acre tract, but do not appear to have any relation to this water right, and there are no overlap concerns.

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>Rate of Diversion</u>
IRRIGATION	04/01 to 10/31	0.03 CFS

Totals: 0.03 CFS

2. Recommended Amendments

 Change P.D. as reflected above Add P.D. as reflected above X None

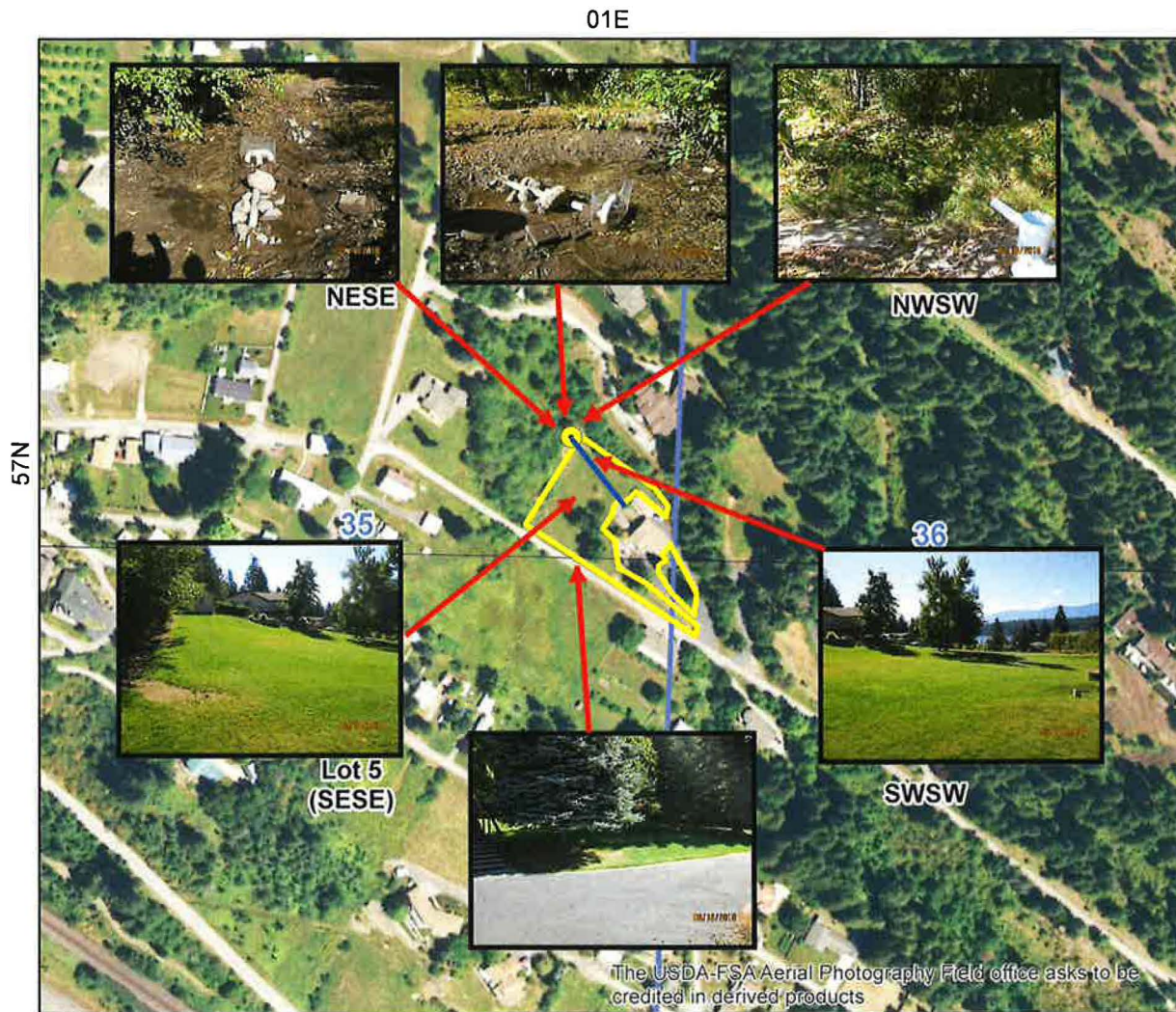
 Change P.U. as reflected above Add P.U. as reflected above X None

I. AUTHENTICATION Luke Bates - Water Resource Agent

Field Examiner's Name Adam Fink Date 4/13/2020
 Reviewer [Signature] Date 4/2/2020

State of Idaho
Department of Water Resources
Attachment to Field Exam
96-9568

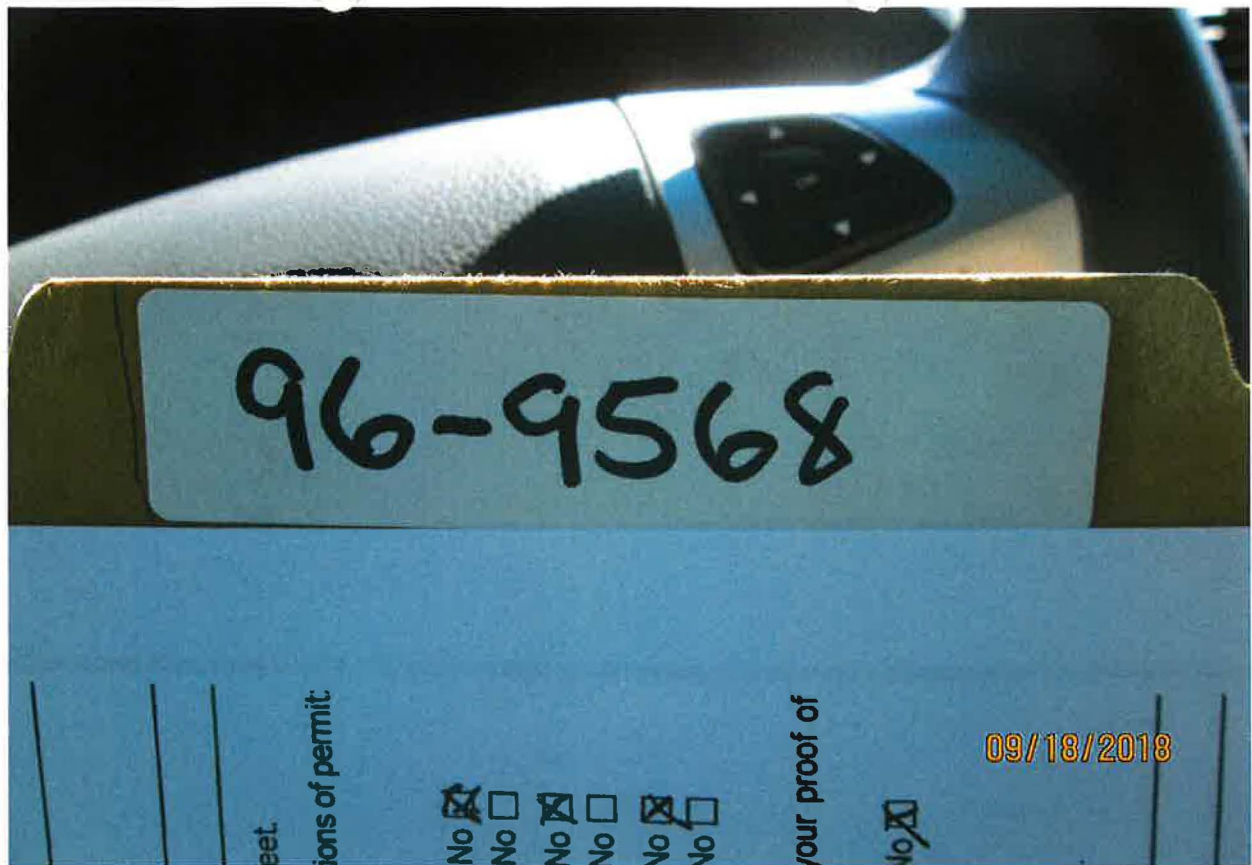
IRRIGATION system diagram.



- Point of Diversion
- Place Of Use Boundary
- Townships
- PLS Sections
- Quarter Quarters

0 0.035 0.07 0.14 Miles





DIVERSION POINT FROM HOLDING POND TO IRRIGATION



HOLDING POND



HOLDING POND



OVERFLOW SYSTEM FROM POND BACK TO CREEK



RETURN FLOW TO CREEK



POU





POU





POU