

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 72-16645

Exam Date: 7/28/2014

1. Current Owner: MARVIN B STROPE
PO BOX 34
CLAYTON ID 83227
(208)838-2738

And/Or

INGRID STROPE
PO BOX 34
CLAYTON ID 83227
(208)838-2738

2. Accompanied by: Mr. Strobe (permit holder), and Jim Bitzenburg (IDWR)

3. SOURCETRIBUTARY

GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: None
2. Other water rights with the same point of diversion: None

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

GROUND WATER

L8 SW1/4SE1/4

Sec. 11, Twp 11N, Rge 18E, B.M.

CUSTER County

Method of Determination: Aerial photography and field verification.

2.

PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
11N	18E	11	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
																	2.0		2.0
																	L 8		

Total Acres: 2

PLACE OF USE: DOMESTIC

Twp	Rge	Sec	NE				NW				SW				SE				Totals
11N	18E	11	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
																	X		
																	L 8		

Method of Determination: Aerial photography and field verification.

3. _____ Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.
- X Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.
- X Aerial Photo Attached (required for irrigation of 10+ acres).
- X Photo of Diversion and System Attached

4.

<u>Well or Diversion</u> <u>ID No.*</u>	<u>Motor Make</u> Submersible	<u>Hp</u> 1	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Pump Serial No. or Discharge</u> <u>Size</u>
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*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS Not required for permits with irrigation of less than five (5) acres or permits with the total combined diversion rate for all uses established in connection with the permit not exceeding twenty-four one hundredths (0.24) cubic feet per second per new Beneficial Use Examination Rules implemented 3/29/2012. Can allow irrigation rate of up to 0.03 cfs per acre and allow domestic diversion rate of 0.04 cfs for one home.

E. FLOW CALCULATIONS

_____ Additional Computation Sheets Attached

Using the Theoretical Horsepower Equation.

15' = depth to water based on 1996 well driller's report static water level.

1.0 = horsepower of pump based on statement of applicant and pump company

35 = psi based on standard pressure for this type of system

$$8.8 \times 1.0 \times 0.7 / 15 + (2.31 \times 35) = 6.16 / 95.85 = 0.064 \text{ cfs}$$

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: 2.0 acres estimated and standard diversion allowance for the area is 3.5 AFA / acre

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = (2.0 \text{ acres}) \times (3.5 \text{ AFA per acre}) = 7.0 \text{ AFA}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = (0.06 \text{ cfs})(2.0 \text{ acres}) \times (214 \text{ days})(1.9835) = 50.9$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 7.0 \text{ AF}$$

2. Volume Calculations for Other Uses:

Domestic use allow 0.6 AF (IDWR standard) for in house culinary use

G. NARRATIVE/REMARKS/COMMENTS

Application for Permit 72-16645 was filed by Marvin B. and Ingrid Strobe on October 23, 2003 seeking to appropriate a total of 0.06 cfs from a well for domestic and irrigation uses for a lot along the Salmon River. On August 10, 2007, the permit was issued and proof of beneficial use was due on or before August 1, 2009. Marvin B. and Ingrid Strobe submitted proof of beneficial use on July 9, 2009. On July 28, 2014 Jim Bitzenburg and I met with Mr. Strobe and then proceeded to conduct the licensing exam for the permit. Mr. Strobe identified the location of the well and explained that the well is set up for the home and the irrigation system. The system currently has some underground sprinklers in place to irrigate parts of the lawn and some trees; additional lawn area is irrigated with a garden hose and sprinkler (see attached photos). Mr. Strobe indicated that the larger portion of the property to the east of the home, has been irrigated in the past and that he has planted crested wheat grass along with the natural vegetation. The irrigation system for this portion consists of two black 2 inch high density polyethylene lines with eight 5/32 sprinklers on each moveable line. It was clear that an irrigation system had been used even though the system apparently consisted of a faucet and the two lines. It was observed that the system in place is capable of irrigating the 2.0 acre place of use. The system was in use the day of the exam.

The recommended diversion volumes for each use will be limited to the amounts outlined in the volume calculations section above for a total volume of 7.6 AF.

Recommended diversion rate of 0.06 cfs is based on the flow calculation. Permit 72-16645 is located within water district 170 but is located within sub-district 72D.

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	04/01 to 10/31	0.060 CFS	7.0 AF
DOMESTIC	01/01 to 12/31	0.020 CFS	0.6 AF
<u>Totals:</u>		0.060 CFS	7.6 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 ☐ Other

I. AUTHENTICATION

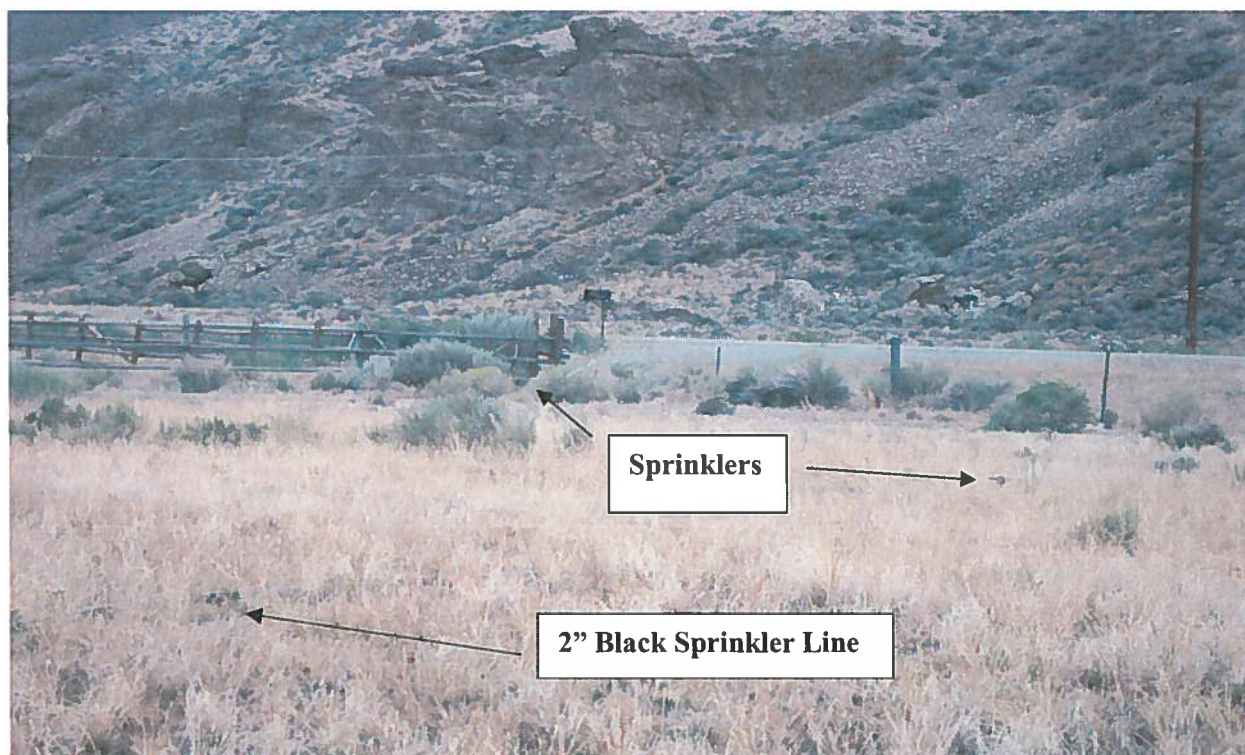
Field Examiner's Name Benny Walker Date 9/16/14
 Reviewer [Signature] Date 9/16/14



Permit 72-16645



Home



Sprinklers for Irrigation of Property East of Home

Permit 72-16645



Well Head



Sprinkler System Valves from Well Head

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Underground Sprinklers for Lawn South of Home and Parking Area



Permit 72-16645



Sprinkler System for Lawn on the North side of Home

