

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 81-11927

Exam Date: 07/28/2008

1. Current Owner: JAMES STARNES Or
BERTIE STARNES
145 LITTLE SMITH CREEK RD
KOOSKIA ID 83539
(208) 926-4345

2. Accompanied by: Jim Starnes
Phone No: same as above
Address: same as above
Relationship to Permit Holder: same

3. SOURCE

LITTLE SMITH CREEK

TRIBUTARY

MIDDLE FORK CLEARWATER RIVER

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:

LITTLE SMITH CREEK NW¼SE¼ Sec. 32, Twp 33N, Rge 06E, B.M. IDAHO County

Method of Determination: Field landmark reference, GIS, Satellite Imagery
GPS was unsuccessful due to forest canopy

2.

PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
33N	06E	32	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	0.5
																			0.5

Total Acres: 0.5

Method of Determination: GIS, Satellite Imagery

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

4.

<u>Well or Diversion ID No.*</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Pump Serial No. or Discharge Size</u>
N/A					

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

D. FLOW MEASUREMENTS

1.

<u>Measurement Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>
Bucket					5.5 gallons	
Stopwatch	Digital					

2. Measurements: 2 sprinklers operating simultaneously

 $\frac{3}{4}$ " garden hose and sprinkler, 5.5 gallons in 60 seconds = 5.5 gallons per minute $\frac{3}{4}$ " garden hose and sprinkler, 5.5 gallons in 32 seconds = 10.3 gallons per minute

$$5.5 \text{ gpm} + 10.3 \text{ gpm} = 15.8 \text{ gpm}$$

$$15.8 \text{ gpm} / 448.83 \text{ gpm/cfs} = 0.035 \text{ cfs}$$

Licensed flow rate will be limited by permit to 0.02 cfs

E. FLOW CALCULATIONS

_____Additional Computation Sheets Attached

Measured Method:

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 0.5 \times 3.0 = 1.5 \text{ AFA}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.02 \times 246 \times 1.9835 = 9.8 \text{ AFA}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 1.5 \text{ AFA}$$

2. Volume Calculations for Other Uses: none

G. NARRATIVE/REMARKS/COMMENTS

Water is diverted from Little Smith Creek approximately 800 ft upstream from the place of use utilizing a rectangular wooden box, a 4-inch diameter mesh-screened intake, and a 2-inch diameter pvc pipe. The system is gravity driven and pressurized by approximately 80 feet of elevation head. The pipe lies on the ground surface and follows the creek to the place of use where it reduces and splits into two 3/4-inch garden hoses. Seven impact sprinklers are attached to the hoses and moved around the property as needed to water turf grass and trees. Up to three sprinklers are used at a time. Valves are in place to control flow to each hose and sprinkler.

There are no other water rights used for irrigation at the place of use authorized by this right and no other water rights share the same point of diversion.

The irrigated area is approximately 1/2-acre on an 2.63 acre lot.

While the application for permit 81-7098 was received February 25, 1981, the permit lapsed and was later reinstated with the priority date advanced to November 26, 2004, the date proof of beneficial use was submitted.

The license for this right should be issued for irrigation of 1/2-acre and will be limited by the permit to a flow rate of 0.02 cfs and an annual diversion volume of 1.5 acre-feet per year.

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	03/15 to 11/15	0.02 CFS	1.5 AF
<u>Totals:</u>		0.02 CFS	1.5 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 AARON MARSHALL Date OCTOBER 10, 2008

Reviewer _____ Date _____

Attachment A

Place of use map and system diagram for Permit 81-7098

R06E



Legend

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

0 150 300 600 Feet



Attachment B

Photographs of Diversion, Delivery System, and Irrigation



FIGURE 1: Diversion dike, box, intake, and pipeline. Downstream is to the right.



FIGURE 2: 2" pipeline traversing hill slope with delivery line, control valve, and garden hose to sprinkler.



FIGURE 3: View facing west towards Little Smith Creek.
Irrigated area and garden hoses to sprinklers.

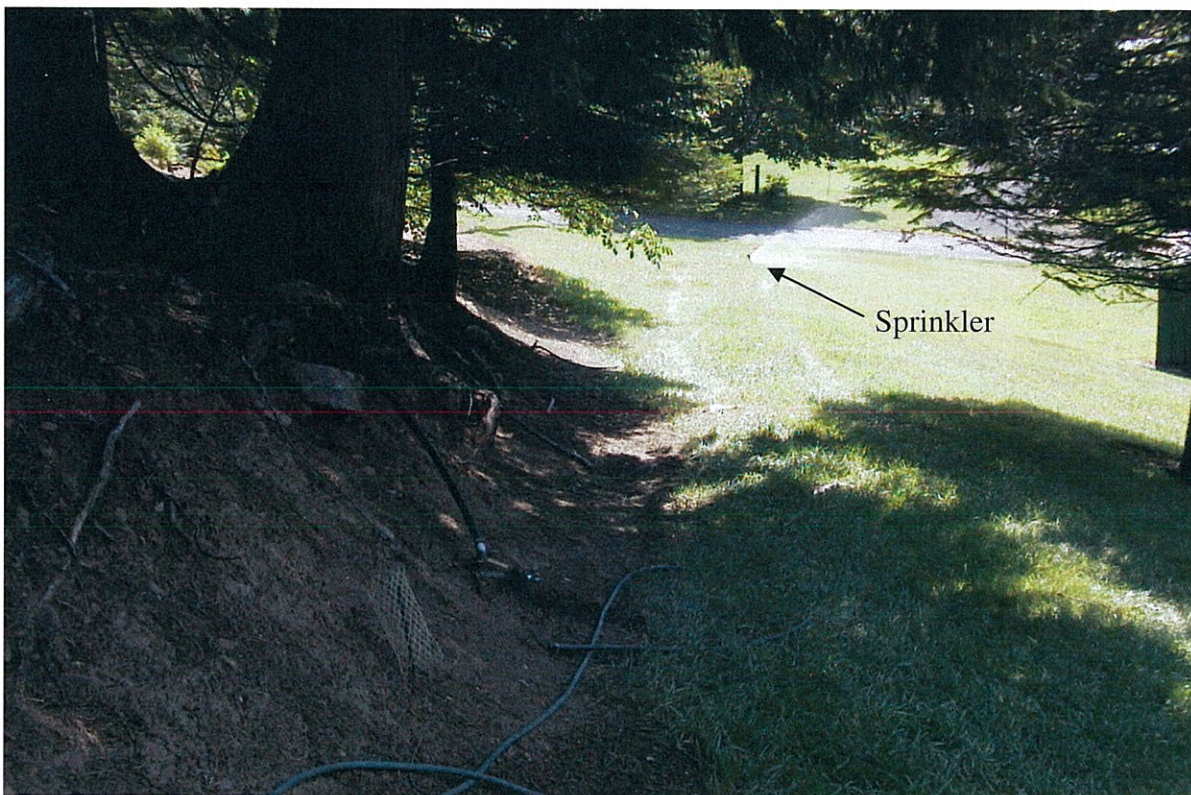


FIGURE 4: View facing east towards street. Delivery lines, hoses, and impact sprinkler.



FIGURE 5: View facing south, downslope between out buildings showing irrigated lawn and trees in front of house.