

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 72-07580
Exam Date: 12/7/2018

1. Current Owner:

SHILOH WARM SPRINGS RANCH LLC
PO BOX 510
CHALLIS ID 83226

2. Accompanied by: Post-exam interview with Jeri D'Orazio

Phone No: 208-339-4326

Address:

Relationship to Permit Holder: Contact for property owner in regards to water issues

3. **SOURCE:**

WARM SPRING CREEK

TRIBUTARY:

SALMON 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: 72-7209 (fish propagation); 72-10141 (irrigation/stockwater); 72-10142, 72-10143, 72-16597, 72-16598 (all irrigation).

C. DIVERSION AND DELIVERY SYSTEM1. LOCATION OF POINT(S) OF DIVERSION:WARM SPRING CREEK NE $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 10, Twp 12N, Rge 20E, B.M. CUSTER County

Method of Determination: ArcMap aerial imagery, Google earth imagery, and site visit.

2. PLACE OF USE: WILDLIFE STORAGE

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
12N	20E	10							X										

Method of Determination: ArcMap aerial imagery, Google earth imagery, and site visit.

3.

Delivery System Diagram Attached (required). Indicate all major components and distances between components.

 x 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

 x 1:24,000 or greater. x Aerial Photo Attached (required for irrigation of 10+ acres). x 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
NA					

*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
NA						

2. Measurements: No measurement necessary per Beneficial Use exam rules, as permit diversion rate is less than 0.24cfs.

E. FLOW

Additional Computation Sheets Attached

CALCULATIONS

Measured Method: NA

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: NA

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = \text{NA}$$

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

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

2. Volume Calculations for Other Uses: The volume of the pond exceeded the permitted volume, so the right will be licensed at the permitted volume. Volume calculated at: surface area of 0.4 acres x average depth of 3 feet = 1.2 AF.

G. NARRATIVE/REMARKS/COMMENTS

The field exam for permit 72-7580 was conducted on December 7, 2018. I was unable to make contact with Jeri D'Orazio, the contact person for Shiloh Warm Springs Ranch, until after the exam was completed. The application for permit was filed on December 17, 1999, but was held until 2005 due to the Salmon-Clearwater Basin and Wilderness Moratoriums. Numerous issues caused further delays in processing the application until the permit was finally approved in August of 2012. Proof of Beneficial Use was filed late, on October 29, 2013, which caused the priority date to be advanced to February 12, 2000.

Water for this permit is diverted from Warm Spring Creek at a large concrete check situated in the creek bed, with the controlling works being wooden check boards placed in steel angle iron attached to the concrete. This diversion structure was originally used for several existing rights which were diverted into ditches on either side of Warm Spring Creek, but apparently are no longer diverted from this spot. From past aerial imagery, it appears that this pond was constructed on one of the existing ditches by deepening and widening the ditch, filling in one end, and adding a spillway.

The water runs in a ditch along the contour of the hillside for about 80 feet until the ditch gradually widens into a shallow pond, approximately 875' long and generally less than 20 feet wide and divided by a culvert. The pond was frozen over at the time of the exam, but the depth appeared to range from a maximum of about 3.5 feet to a minimum of around 2 feet, with an average of approximately 3 feet. This provides an actual volume of 1.2 acre-feet, which exceeds the permitted volume of 0.1 acre-feet, so the permit holder will need to file an application for permit for the extra volume and evaporative losses, or decrease the storage volume of the pond. Seepage losses from the pond return to Warm Spring Creek, and are likely minimal. Several segments of the ditch are straight enough for the installation of a weir or flume to accommodate measurement of the flow, which satisfies that permit condition. The metal frame of the controlling works could be modified to lock the diversion in the closed position, which satisfies another condition.

About 30-40 feet from the lower end of the pond, an 18" steel culvert serves as the overflow outlet for the pond, with the water eventually draining back into Warm Spring Creek.

IDWR requested comments from the Idaho Department of Fish and Game regarding this permit, and they replied that they had no comments, so no fish screening or fish passage requirements were sought by IDFG.

No apparatus was evident for extracting water from the pond for commercial use, so the commercial use portion will be dropped at licensing. Mr. D'Orazio said that he thought the former owners used a portable pump to divert for the commercial use, but none was present at the time of the exam.

Because the exam was conducted in December in cold weather, no wildlife could be observed drinking from, or flying onto, the water, but numerous animal tracks around the pond in the snow attest to the likelihood that animals use the pond year-round.

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>
WILDLIFE STORAGE	01/01 to 12/31		0.1 AF
DIVERSION TO STORAGE	01/01 to 12/31	0.10 CFS	
	<u>Totals:</u>	0.100 CFS	0.10 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 1-3-2019
 Reviewer _____ Date _____



The point of diversion on Warm Spring Creek (at arrow)

Point of Diversion – Blue arrow indicates diversion to pond; green arrow is Warm Spring Creek





Headgate at the point of diversion

Straight section of ditch at the upper end of the pond





Views of the pond



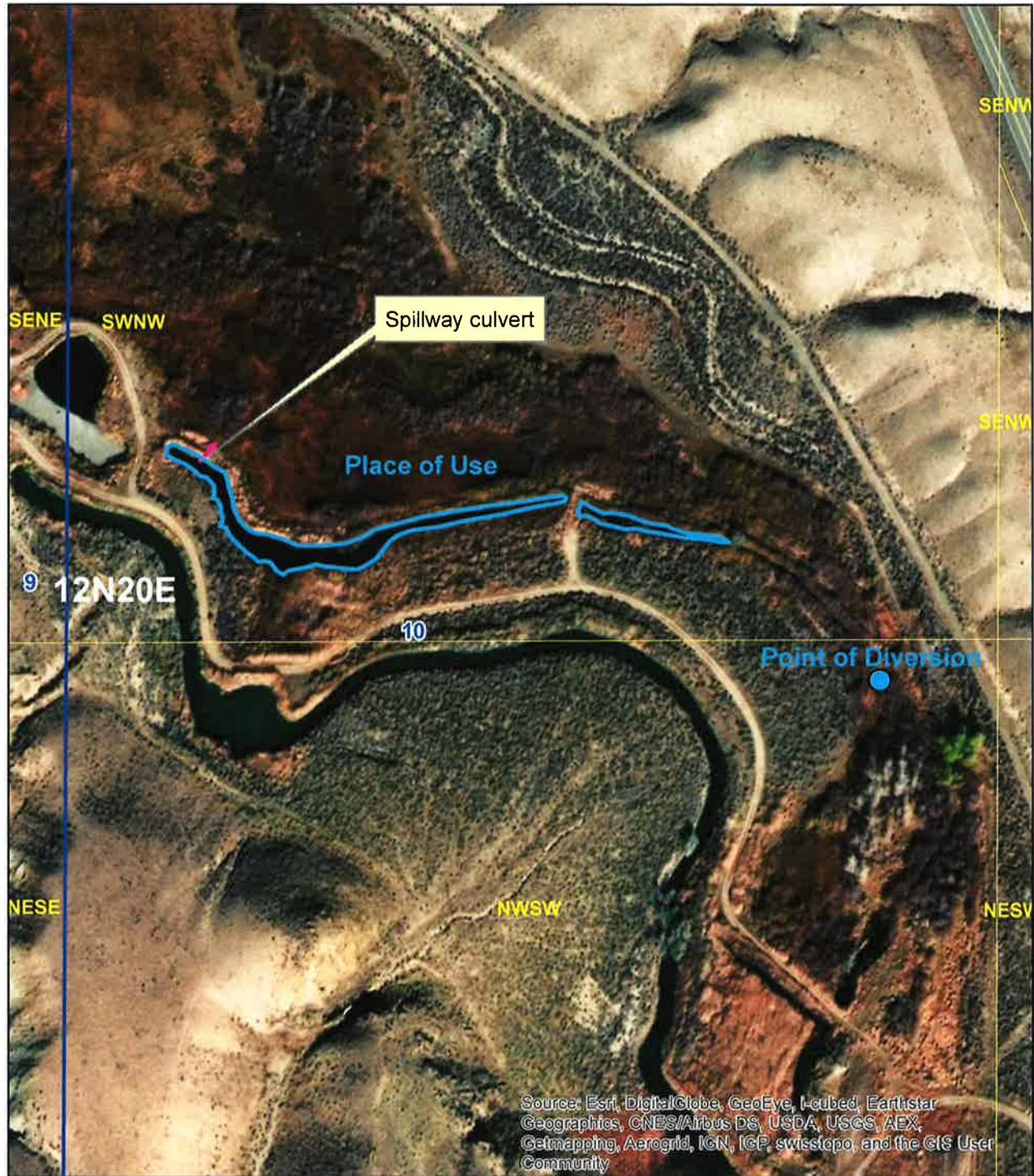


The downstream end of the pond

The outlet of the pond with Warm Spring Creek below



System Diagram for right 72-7580



Legend

-  Township/Range
-  Sections
- QQ

0 0.0225 0.045 0.09 Miles

