

[illegible]

PLACE OF USE: WILDLIFE

Twp Rge Sec	NE				NW				SW				SE				Totals
14N 06W 21	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
			X														

Method of Determination:

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 Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
--	------------	----	------------------	-----------	-----------------------------------

*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
5 gallon bucket						

2. Measurements: 5 gallon bucket was filled. Time that it took to fill was measured.

E. FLOW CALCULATIONS☐ Additional Computation Sheets Attached

Measured Method:

Average time to fill 5 gallon bucket: 5 min 22 sec = 322 sec

5 gallons / 322 sec * 1cf / 7.48 gallons = 0.002 cfs

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

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

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

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

2. Volume Calculations for Other Uses:

$$0.01 \text{ cfs} \times 723.97 \text{ af/cfs*yr} = 7.2 \text{ af/yr}$$

G. NARRATIVE/REMARKS/COMMENTS

Permit 69-11499 authorized the diversion of 0.02 cfs for stockwater and wildlife purposes. Beneficial use was filed on August 10, 2004. The field exam was conducted on June 11, 2014 by Patrick Kelly of IDWR and was escorted by Kasey Chandler of Weiser, ID.

I was able to locate the diversion which diverts out of Thorn Creek. GPS points were taken and match PLS maps. The applicant correctly identified the legal descriptions. Cattle and wildlife were both witnessed during the field exam.

Flow rate was measured by the time it took to fill a 5 gallon bucket. This time in gallons per second was converted to a cfs. The flow rate was significantly smaller than the permitted rate of 0.02 cfs. Kasey informed me that these flows are highly variable between seasons and influenced by local precipitation.

For reasons of low flow rates observed, I recommend a licensing rate of 0.01 cfs is sufficient. Volume of 7.2 afa was calculated given this lesser rate of flow.

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>
STOCKWATER	04/01 to 11/30	0.01 CFS	4.8 AF
WILDLIFE	01/01 to 12/31	0.01 CFS	7.2 AF
	<u>Totals:</u>	0.01 CFS	7.2 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

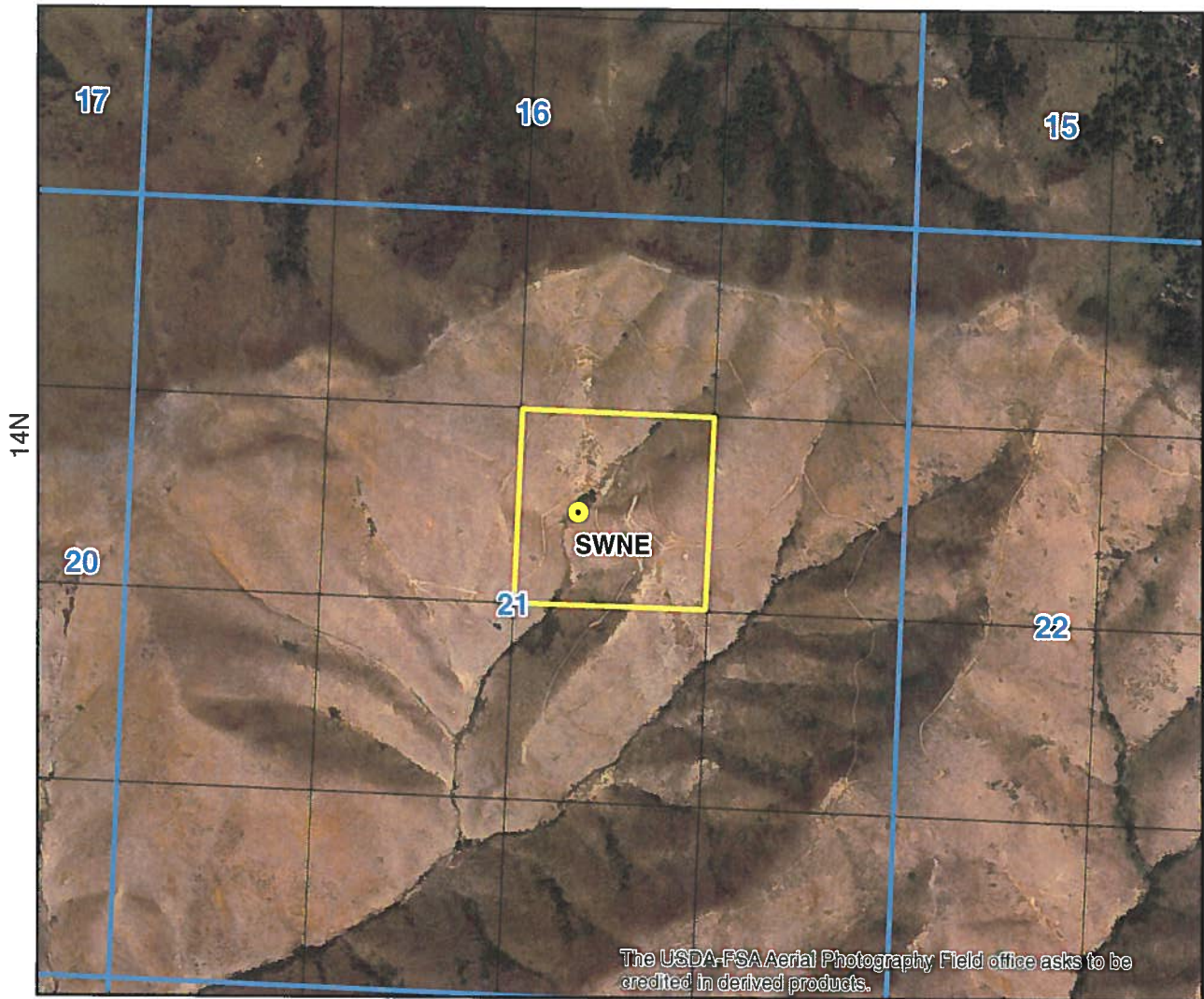
I. AUTHENTICATION

Field Examiner's Name Patrick Kelly Date 06/12/2014
Reviewer _____ Date _____

State of Idaho
Department of Water Resources
Field Exam Map
69-11499

This map depicts the STOCKWATER @ WILDLIFE place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.

06W



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

0 0.15 0.3 0.6 Miles



69-11499 Thorn Spring Creek

NENW

NWNE

NENE

POU

SENW

21

POU

14N06W
SWNE

SENE

NESW

NWSE

NESE

PHOTOGRAPHER PATRICK KELLY
DATE OF PHOTOS 6/12/2014

FILE NUMBER 69-11499



Point of
Diversion:
Thorn Springs
Creek



Gravity flow into
a trough for
cattle and
wildlife.
Overflow exits
system back into
Thorn Springs
Creek.