

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 37-8932

Exam Date: 6/27/2012

1. Current Owner: US DEPT OF INTERIOR
BUREAU OF LAND MANAGEMENT
400 WEST F ST
SHOSHONE ID 83352
(208)732-7200

2. SOURCE

SPRING

TRIBUTARY

SINKS

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 37-15269 (Federal Reserve Water Right)
2. Other water rights with the same point of diversion: 37-15269

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

SPRING

NW1/4SE1/4SW1/4

Sec. 20, Twp 03N, Rge 19E, B.M.

BLAINE County

Method of Determination: Waypoints were collected with a Garmin GPSmap 60CSx receiver and downloaded into an ArcMap shapefile that corresponds with 2009 and 2011 aerial photography and verified the point of diversion to be in Twp 03N Rge 19E Sec 20 NWSESW¼. See attached map.

2.

PLACE OF USE: STOCKWATER

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	
03N	19E	20												X					

PLACE OF USE: WILDLIFE

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	
03N	19E	20												X					

Method of Determination: Waypoints were collected with a Garmin GPSmap 60CSx receiver and downloaded into an ArcMap shapefile that corresponds with 2009 and 2011 aerial photography and verified the point of diversion to be in Twp 03N Rge 19E Sec 20 SESW¼. See attached map.

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2.

PLACE OF USE: STOCKWATER

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N	19E	20												X					

PLACE OF USE: WILDLIFE

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N	19E	20												X					

Method of Determination: Waypoints were collected with a Garmin GPSmap 60CSx receiver and downloaded into an ArcMap shapefile that corresponds with 2009 and 2011 aerial photography and verified the point of diversion to be in Twp 03N Rge 19E Sec 20 NWSESW¼. See attached map.

3. ☒ 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

D. **FLOW MEASUREMENTS** None possible, system in disrepair.

E. **FLOW CALCULATIONS**

☐ Additional Computation Sheets Attached

Measured Method:

Hazen Williams Full Pipe Flow Calculation (based on information provided by the BLM and elevations collected at site):

$$Q=0.432C_1D^{2.63}S^{0.54}$$

Where:

C_1 = roughness coefficient

D = Diameter in feet

S = Slope

S = 14.5' elevation drop / 499' distance = 0.029

C_1 = 130 (coefficient for PVC)

D = 0.104' (1.25" PVC)

Q = 0.02 cfs

F. **VOLUME CALCULATIONS**

1. Volume Calculations for Other Uses: This right will be limited to 13,000 gallons per day.

G. **NARRATIVE/REMARKS/COMMENTS**

Permit 37-8932 is for 0.02 cfs stockwater and 0.02 cfs wildlife from a spring referred to as Moonlight Spring..

Application for permit 37-8932 submitted by US Dept of Interior/ Bureau of Land Management was filed on September 20, 2000, and proof of Beneficial Use was submitted on the same day.

Moonlight Spring is located 8.2 miles north and 1.8 miles east of the intersection of Hwy 75 and Hwy 23 in Bellevue. The trough system consists of a spring box that supplies water through a 1.25" PVC pipe over an approximate distance of 499' to a round metal trough measuring 8' across by 2' deep (approximately 685 gals). On the day of the exam there was no flow into the trough and system appeared to be inoperable. As no flow measurement was possible, the Hazen Williams Full Pipe Flow Calculation was utilized to obtain a potential rate of diversion of 0.02 cfs. Historical evidence of use by cattle was present and recent elk sign was also present near the trough.

I wasn't able to locate the exact location of the spring box during the field exam as the location indicated on the map submitted by the BLM is now a densely overgrown thicket of trees and shrubs. I recorded a waypoint at the head of the spring where the map indicates the spring box is located.

Overlap analysis indicates there is place of use and point of diversion overlap with water right 37-15269, a Federal Reserve water right pursuant to Public Water Reserve 107. PWR 107 rights are intended as in-stream stock watering. Condition 238 will be added to the license to clarify the relationship between the two rights.

Recommend licensing a total of 0.02 cfs for stockwater and wildlife use.

Have conditions of permit approval been met? ☒ Yes ☐ No

H. RECOMMENDATIONS

1. Recommended Amounts

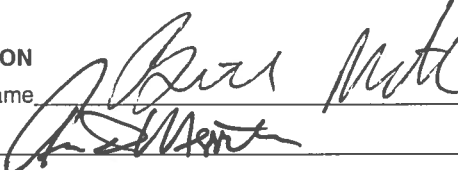
<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>
STOCKWATER	01/01 to 12/31	0.020 CFS
WILDLIFE	01/01 to 12/31	0.020 CFS
<u>Totals:</u>		0.020 CFS

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  Date 6-29-12

Reviewer  Date 7/3/12



Figure 1: Trough at Moonlight Springs.

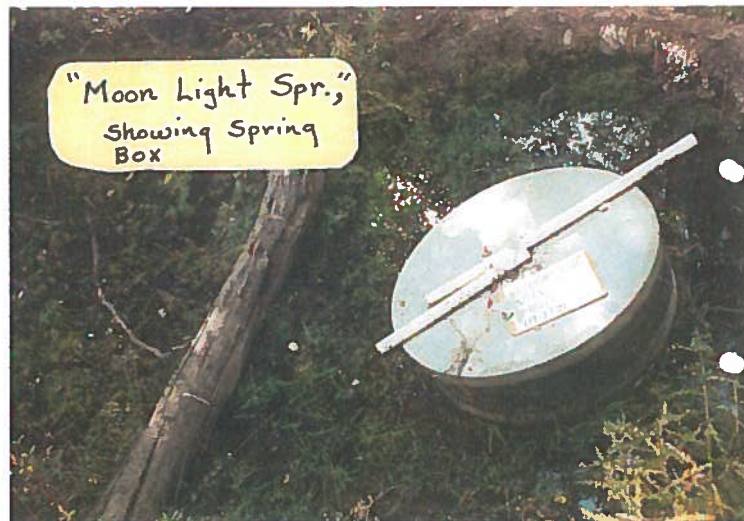
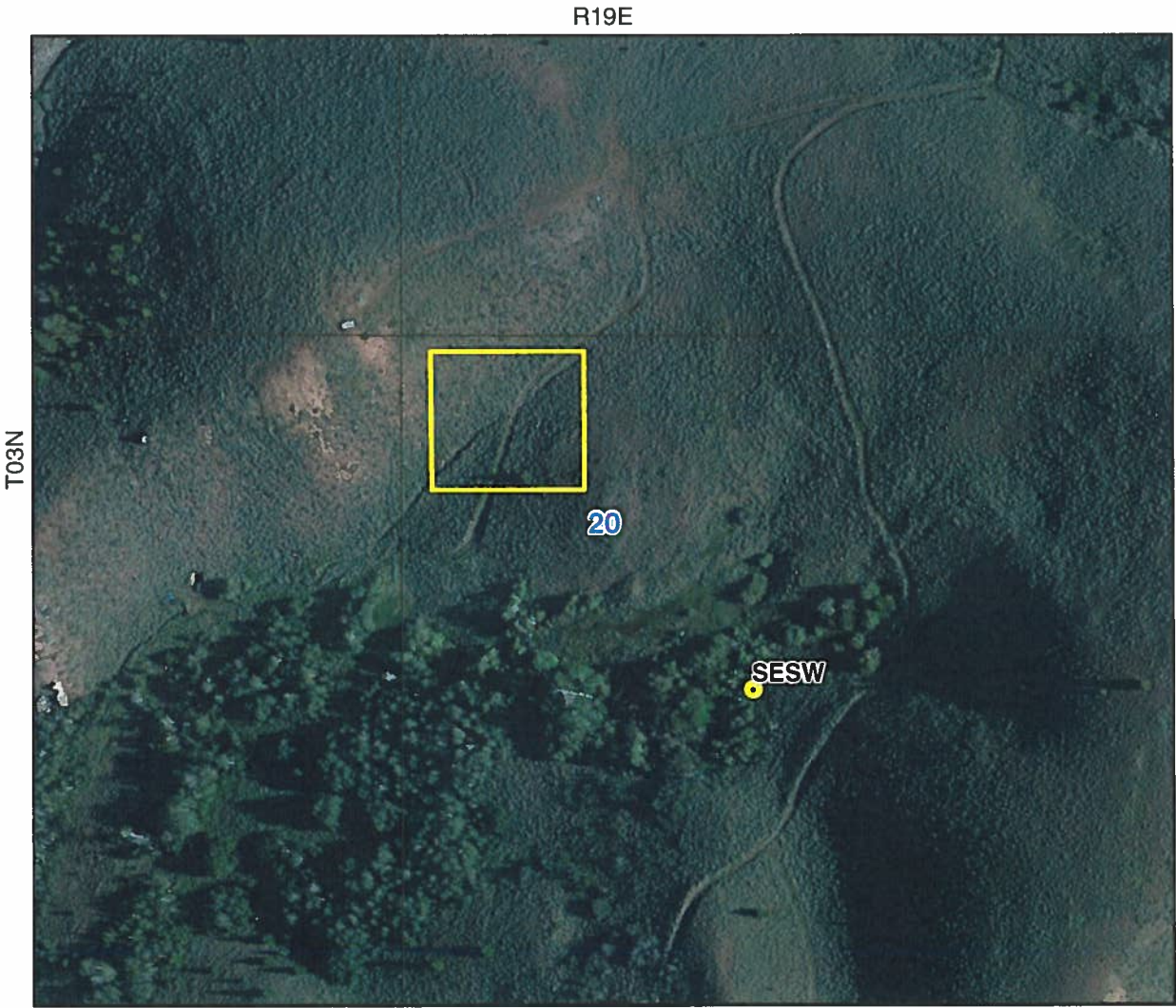


Figure 2: BLM photo of Spring Box.

State of Idaho
Department of Water Resources
Attachment To Water Right License
37-8932

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.



0 0.03 0.06 0.12 Miles

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

