

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 37-8943

Exam Date: 4/24/2012

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: None
2. Other water rights with the same point of diversion: 37-16707 (Partially Decreed Federal Reserve Water Right)

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

SPRING SW1/4SE1/4SW1/4 Sec. 28, Twp 01S, Rge 18E, B.M.
BLAINE County

Method of Determination: Waypoints were collected with a Garmin GPS map 76S 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 01S Rge 18E Sec 28 SWSESW 1/4. See attached map.

2.

PLACE OF USE: STOCKWATER

Twp	Rge	Sec	NE				NW				SW				SE				
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	Totals
01S	18E	28												X					

PLACE OF USE: WILDLIFE

Twp	Rge	Sec	NE				NW				SW				SE				
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	Totals
01S	18E	28												X					

Method of Determination: Waypoints were collected with a Garmin GPS map 76S receiver and downloaded into an ArcMap shapefile that corresponds with 2009 and 2011 aerial photography and verified the place of use to be in Twp 01S Rge 18E Sec 28 SESW 1/4. See attached map.

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

D. FLOW MEASUREMENTS None Possible (system in disrepair)

E. FLOW CALCULATIONS

_____ Additional Computation Sheets Attached

Measured Method:

Hazen Williams Full Pipe Flow Calculation:

$$Q = 0.432 C_1 D^{2.63} S^{0.54}$$

Where:

C_1 = roughness coefficient

D = Diameter in feet

S = Slope

S = 26' elevation drop / 235' distance = 0.11

C_1 = 130 (coefficient for PVC)

D = 0.104' (1.25" PVC)

Q = 0.04 cfs

F. VOLUME CALCULATIONS ~~Not required under the current beneficial use examination rules.~~

Limit to 13,000 gpd

G. NARRATIVE/REMARKS/COMMENTS

Permit 37-8943 is for 0.02 cfs stockwater and 0.02 cfs wildlife from a spring referred to as North View Spring..

Application for permit 37-8943 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.

North View Spring is located 0.7 miles north and 1.9 miles east of Magic city located on the east side of Magic Reservoir. The trough system consists of a spring box made from 36' corrugated metal pipe that supplies water through a 1.25" pvc pipe over an approximate distance of 235' to a trough that measures 13.5' L x 3.67' W x 1.6' D. On the day of the exam the spring box was filled with sediment above the outlet and the supply line appeared to be clogged. As no flow measurement was possible, the Hazen Williams Full Pipe Flow Calculation was utilized to obtain a potential rate of diversion of 0.04 cfs. There was water in the trough from recent rains and evidence of recent use by several elk. Historical evidence of use by cattle was present.

Overlap analysis indicates there is a partially decreed water right, 37-16707 sharing the same point of diversion (spring source). Right 37-16707 is a Federal Reserve water right pursuant to Public Water Reserve 107. PWR 107 rights are intended as in-stream stock watering, although this isn't stated on the decree. 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 Bill Hill Date 6-1-12

Reviewer [Signature] Date 6/29/12

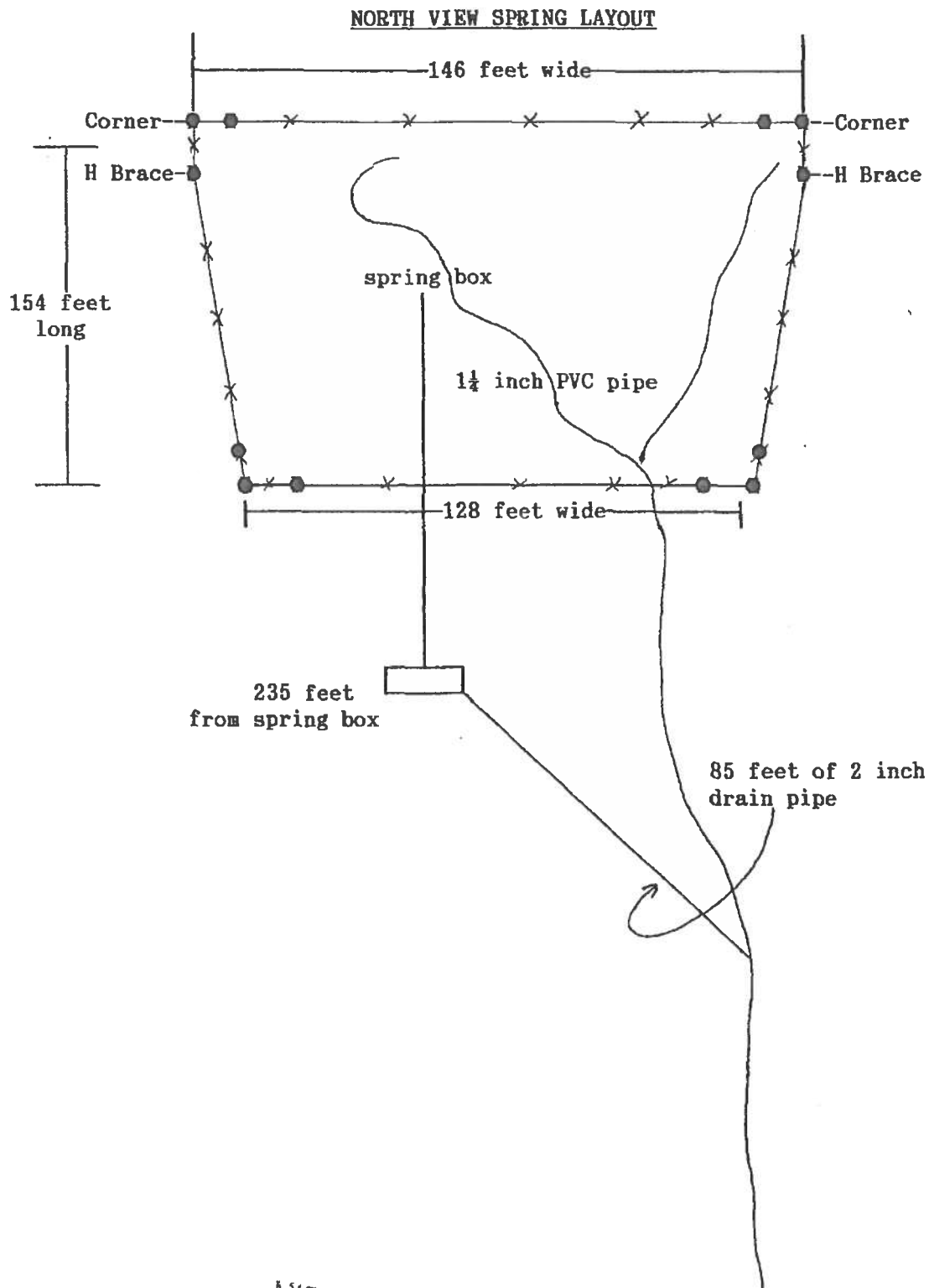


Figure 1: Spring Box



Figure 2: Trough

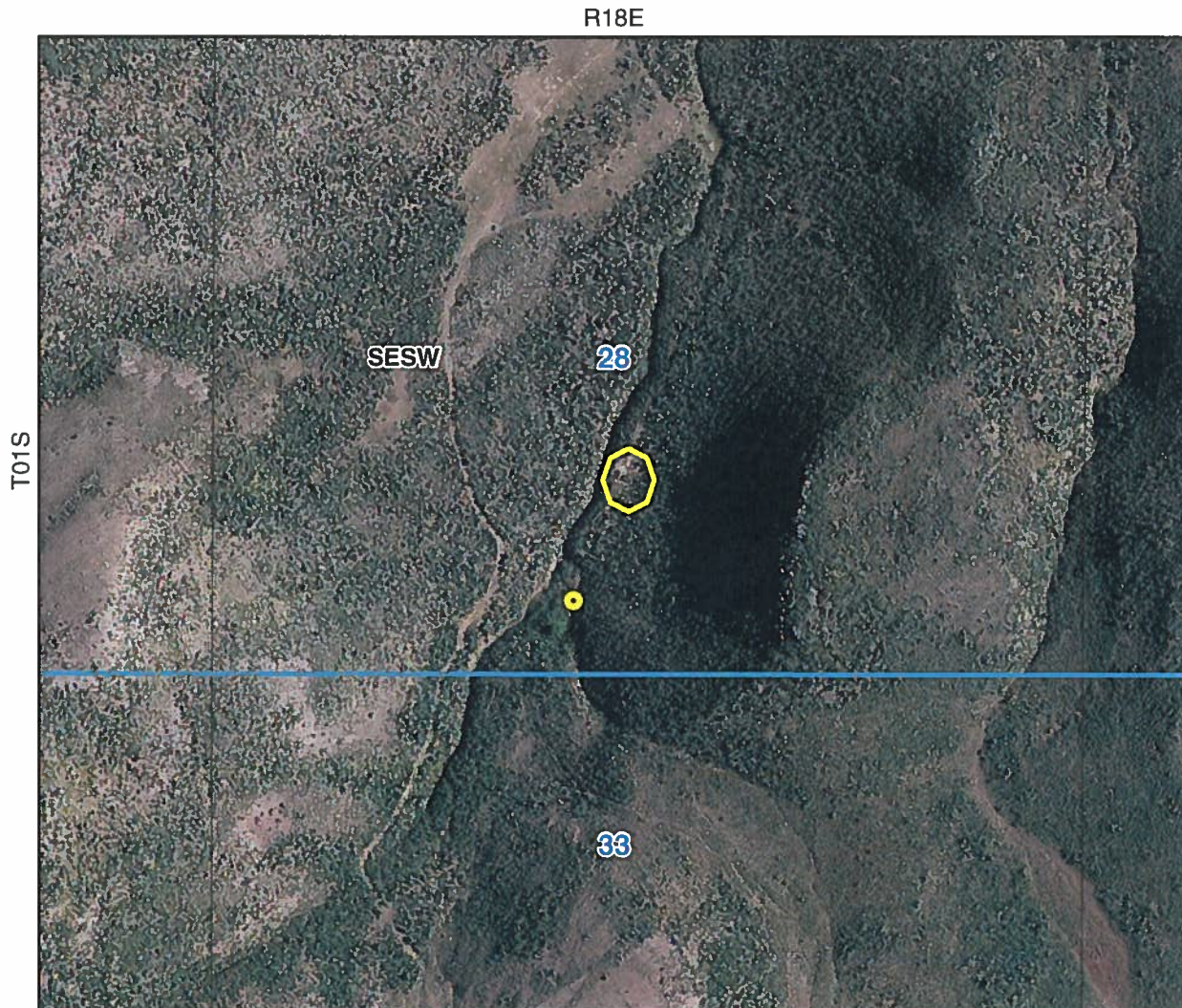
ATTACHMENT 2



MICROFILM
APR 11 2001

State of Idaho
Department of Water Resources
Attachment To Water Right License
37-8943

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 0.0325 0.065 0.13 Miles

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

