

STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES  
**BENEFICIAL USE FIELD REPORT**

**A. GENERAL INFORMATION**

Permit No: 37-8939

Exam Date: 5/29/2012

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

POISON CREEK

**B. OVERLAP REVIEW**

1. Other water rights with the same place of use: 37-14658 (Federal Reserve Water Right)  
2. Other water rights with the same point of diversion: None

**C. DIVERSION AND DELIVERY SYSTEM**1. LOCATION OF POINT(S) OF DIVERSION:

SPRING L9 (SW1/4NE1/4SW1/4) Sec. 18, Twp 01N, Rge 17E, 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 01N Rge 17E Sec 18 SWNESW¼. See attached map and narrative.

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 |        |
| 01N | 17E | 18  |    |    |    |    |    |    |    |    | X   |    |    |    |    |    |    |    |        |
|     |     |     |    |    |    |    |    |    |    |    | L 9 |    |    |    |    |    |    |    |        |

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 |        |
| 01N | 17E | 18  |    |    |    |    |    |    |    |    | X   |    |    |    |    |    |    |    |        |
|     |     |     |    |    |    |    |    |    |    |    | L 9 |    |    |    |    |    |    |    |        |

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 place of use to be in Twp 01N Rge 17E Sec 18 NESW¼. 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 (based on information provided by the BLM and elevations collected at site):

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

Where:

$C_1$  = roughness coefficient

D = Diameter in feet

S = Slope

S = 12' elevation drop / 330' distance = 0.036

$C_1$  = 140 (coefficient for polyethylene)

D = 0.104' (1.25" polyethylene)

Q = 0.02 cfs

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

G. **NARRATIVE/REMARKS/COMMENTS**

*Limit to 13,000 gpd*

Permit 37-8939 is for 0.02 cfs stockwater and 0.02 cfs wildlife from a spring referred to as Doniphan Spring..

Application for permit 37-8939 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.

Doniphan Spring is located 11.2 miles west and 2.8 miles south 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" polyethylene pipe over an approximate distance of 330' ( per BLM "As Built Drawing") to a trough that measures 13.5' L x 3.67' W x 1.6' D. On the day of the exam there was no flow into the trough and system appeared to be inoperable as the valve box and spring box were apparently covered over with sediment. 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 sheep were grazing on the stream a ¼ mile to the south.

The spring source for this system actually lies within three 10 acre tracts (NENESW, SWNESW and NWNESW) and the location of the actual point of diversion remains unclear. I wasn't able to locate a spring box during the field exam as it appears to be buried under siltation, sedge grass and or willows. I did find the survey marker for the springs in the NWNESW. The BLM listed the point of diversion as the south end of the corral (SWNESW). Since the actual location is unclear and close to the line between the NWNESW and the SWNESW, I'll recommend licensing the point of diversion as permitted.

Overlap analysis indicates there is a place of use overlap with water right 37-14658, a Federal Reserve water right pursuant to Public Water Reserve 107. PWR 107 rights are intended as in-stream stock watering. The point of diversion for right 37-14658 is listed as the NENESW, but is from the same spring system. As such, 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

6-4-2012

Reviewer

Date

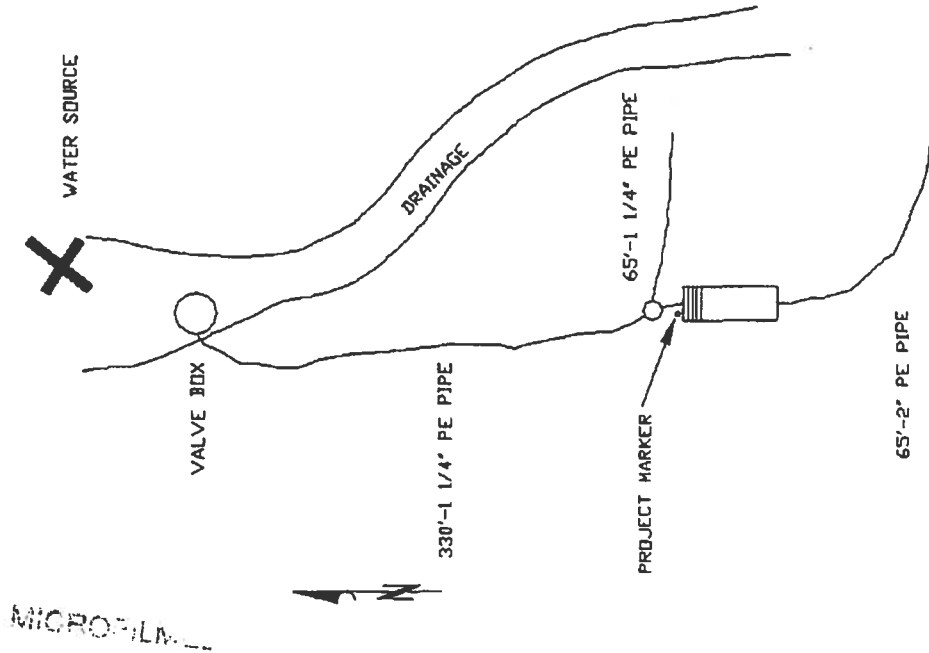
6/29/12



Figure 1: Trough and spring enclosure (looking northeast).

NOTES:

1. SPRING BOX IS INSTALLED AT THE LOWER END OF THE SPRING INFLUENCED AREA AS OUTLINED IN ENVIRONMENTAL ASSESSMENT #10050-EA-94017.
2. A CONTROL VALVE (FLOAT) IS INSTALLED IN TROUGH AS REQUESTED IN ENVIRONMENTAL ASSESSMENT #10050-EA-94017.
3. TO PREVENT FREEZING, GATE VALVE IN SPRING BOX MUST BE CLOSED AND GATE VALVE AT STATION 3+30 AT TROUGH MUST BE OPENED IN THE FALL BEFORE TEMPERATURE FALLS BELOW FREEZING.
4. TO FILL TROUGH, GATE VALVE AT STATION 3+30 AT TROUGH MUST BE CLOSED AND GATE VALVE IN SPRING BOX MUST BE OPENED.
5. MATERIALS FOR BUCK AND POLE FENCE REQUESTED BY RESOURCE AREA IS BACK ORDERED AND FENCE IS NOT SHOWN ON THIS DRAWING.



PROJECT #37-5635

U. S. DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
SHOSHONE DISTRICT OFFICE

DONNIPHAN SPRING  
AS BUILT DRAWING

DESIGNED \_\_\_\_\_

REVIEWED \_\_\_\_\_

APPROVED *8-31-94*

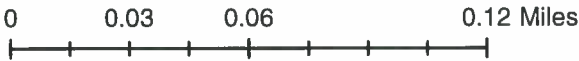
DRAWN *R. JAYU* SCALE NONE

Attachment B: *Donniphon Spring*

State of Idaho  
Department of Water Resources  
**Attachment To Water Right License**  
37-8939

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.

R17E



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

