

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 37-8902

Exam Date: 11/15/2011

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

2. SOURCE

UNNAMED STREAM

TRIBUTARY

BIG WOOD RIVER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 37-18969 (in-stream stockwater; 0.02 cfs; BLM)
2. Other water rights with the same point of diversion: None

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

UNNAMED STREAM

SW1/4SE1/4SW1/4

Sec. 13, Twp 02S, Rge 17E, B.M.

CAMAS County

Method of Determination: Waypoints were collected with a Garmin GPS map 76S receiver and downloaded into an ArcMap shapefile that corresponds with 2009 aerial photography and verified the point of diversion to be in Twp 02S Rge 17E S 13 SWSESW¼. See attached map.

2.

PLACE OF USE: STOCKWATER 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	
02S	17E	13												X					

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	
02S	17E	13												X					

Method of Determination: Tracks were collected with a Garmin GPS map 76S receiver and downloaded into an ArcMap shapefile that corresponds with 2009 aerial photography and verified the place of use to be in Twp 02S Rge 17E S 13 SESW¼. 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 N/A

E. FLOW CALCULATIONS N/A

F. VOLUME CALCULATIONS N/A

1. Volume Calculations for Other Uses: Stockwater Storage and Wildlife Storage:

Surface area of reservoir = 0.1 acres

Determined using 2009 aerial photography and 2010 satellite imagery in ArcMap, and dimensions provided by the BLM in permit application.

Reservoir Capacity = .30 AF

Determined using flat bottom reservoir equation from IDWR Field Examiners Handbook and information provided in permit application.
(Capacity = Surface area x Maximum Depth)
0.1 acres x 3.0 feet = .30 AF

Potential Stock and Wildlife Use:

((4225 cattle x 12 gpd) + (9000 x 2gpd)) x 182 days/ 325850 = 38.4 AF (Based on a potential 6 month grazing season)

30 wild ungulates x 12 gpd x 365 days/ 325850 = 0.40 AF

Total: 38.4 AF + 0.40 AF = 38.8 AF

G. NARRATIVE/REMARKS/COMMENTS

Permit 37-8902 is for stockwater storage and wildlife storage. Source is an unnamed stream and the storage reservoir is referred to as Corral Reservoir.

Application for permit 37-8902 submitted by the US Dept of Interior, Bureau of Land Management was received on December 13, 1999 and proof of Beneficial Use was submitted on June 23, 2000.

Corral Reservoir is located approximately 2.5 miles due south of the West Shore Subdivision at Magic Reservoir. Point of diversion and place of use are located in the SWSESW¼ of Sec.13, Twp 02S, Rge 17E. The reservoir is a small pit reservoir with a capacity of 0.3 acre feet that was constructed alongside an unnamed stream. The reservoir is located next to a staging corral used to move livestock to and from the open range.

According to the application for permit, up to 4225 range cattle, 9000 sheep and varying numbers of wildlife use the water source. Precipitation deficit data from the University of Idaho ET website indicates a mean of 695 mm (2.28 AF) per acre for small stockwater ponds in the Magic Dam area. Based on the calculated surface area of 0.1 acres, this indicates that approximately 0.23 AF could potentially evaporate from the reservoir each year. Potential stock and wildlife use was calculated at 38.8 AF, far exceeding the 0.3 AF reservoir capacity. Calculations were based on stock numbers listed on the permit and a number of wild ungulates thought to represent the size of an average deer herd. Evidence of extensive use by cattle in the form of hoof prints and droppings were present on the day of the field exam.

Overlap analysis indicates right 37-18969, a BLM in-stream stockwater right is listed in the same tract, and provides stockwater directly from the stream and not the reservoir.

Recommend permitting an annual volume of 0.3 AF.

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

H. RECOMMENDATIONS

1. Recommended Amounts

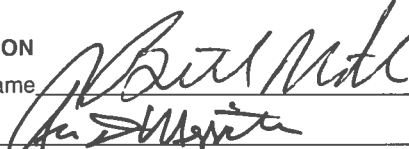
<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>ANNUAL VOLUME</u>
STOCKWATER STORAGE	01/01 to 12/31	0.30 AF
WILDLIFE STORAGE	01/01 to 12/31	0.30 AF
<u>Totals:</u>		0.30 AF

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  Date 2-9-2012

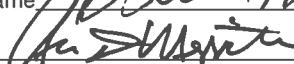
Reviewer  Date 2/14/2012



Figure 1: Aerial photo from southwest looking northeast taken 5/2/1997



Figure 2: Reservoir from ground level looking northeast 11/15/2011

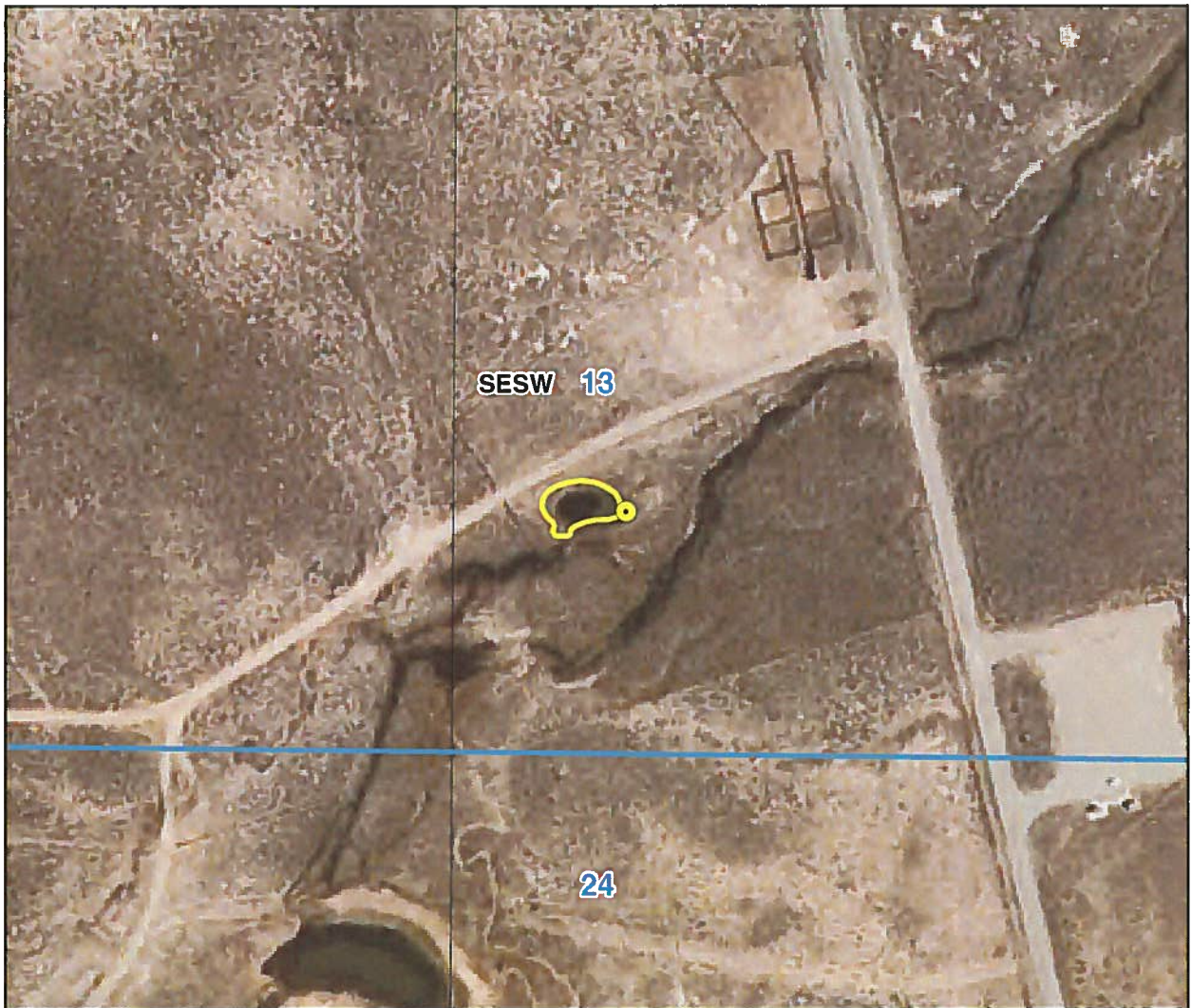
State of Idaho
Department of Water Resources
Water Right License

37-8902

Water Service Area Boundary for Us Dept Of Interior

R17E

T02S



0 0.0275 0.055 0.11 Miles

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

