

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 37-22543

Exam Date: 10/30/2015

1. Current Owner: LAVA LAKE LAND & LIVESTOCK LLC
PO BOX 2249
HAILEY ID 83333
(208) 788-1710
2. Accompanied by: Permission to visit pond site to conduct Field Exam granted by Mike Gordon.
Phone No: (208) 309-3049
Address: PO Box 2249, Hailey ID 83333
Relationship to Permit Holder: Marketing Manager for Lava Lake Land & Livestock LLC

3. SOURCE

UNNAMED STREAM

TRIBUTARY

COPPER CREEK

B. OVERLAP REVIEW

1. Other water rights with the same place of use: N/A
2. Other water rights with the same point of diversion: N/A

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

UNNAMED STREAM

NE1/4NE1/4

Sec. 28, Twp 01N, Rge 23E, B.M.

BLAINE County

Method of Determination: On-site examination and GPS waypoint recorded using Garmin GPSmap 60CSx

2.

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	
01N	23E	27						X											
01N	23E	28	X																

Method of Determination: On-site examination and GPS tracks recorded using Garmin GPSmap 60CSx

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**ID No.*****Motor Make****Hp****Motor Serial No.****Pump Make****Pump Serial No. or Discharge****Size**

Embankment below pond with overflow and level control device

D. FLOW MEASUREMENTS: N/A – Wildlife Storage

1.

Measurement**Equipment****Type****Make****Model No.****Serial No.****Size****Calib. Date**

N/A

2. Measurements: N/A

E. FLOW CALCULATIONS: N/A – Wildlife Storage

____ Additional Computation Sheets Attached

Measured Method: N/A

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: N/A – Wildlife Storage

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

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

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

2. Volume Calculations for Other Uses: Wildlife Storage – Flat Bottom Pond:

$$0.74 \text{ acre surface area} \times 3.0' \text{ maximum depth} = \underline{2.2 \text{ acre feet}}$$

G. NARRATIVE/REMARKS/COMMENTS

Application for permit was submitted by Lava Lake & Livestock LLC on 06/23/2010 and proof of beneficial use was submitted 09/21/2015.

When I arrived at the permitted pond to perform the field exam, I found a pond that had been had been constructed on a small stream channel in a marshy wetland area with multiple springs and seeps. A small amount of water was flowing into the pond from the channel. Water was also flowing out through the pond's outlet back into the unnamed stream channel below the pond's embankment and into Copper Creek approximately 30' downstream. The permit source was listed as springs and while there were springs adjacent to the pond and possibly under the pond, the pond was constructed across a stream channel with a small amount of water flowing into the pond from the channel that originated from springs approximately 0.2 miles upstream. Therefore, I have changed the source on the license from springs to unnamed stream. This is merely a clarification, as the springs are all part of the same wetland/marsh area, but the pond was constructed on a flowing stream channel making the source an unnamed stream.

There is an embankment that runs from the northwest end of the pond approximately 195' to the south and then runs east another 280' to the east end of the pond. The embankment reaches a height of 7' at its highest point where it crosses the stream channel. There is an outlet with a water level control structure where the embankment crosses the stream channel (see figures #3 and #4). I could hear and see water cascading through the structure and the level of the pond was maintained just slightly below the level of the spillway. The outlet was covered with vegetation but a "trickle" of water was visibly flowing from the outlet into the stream channel. The pond is designed to maintain the water level at a 3' depth and the permitted capacity on a year round basis. It also has a mostly flat bottom design with a 3' depth. Aquatic vegetation was visible throughout the entire pond. Ducks and geese were on the pond when I arrived, but abruptly flew away upon my arrival. Evidence of visitation by deer was also present in the form of droppings and tracks around the pond.

The permit originally listed two points of diversion, one in the SENENE of Sec. 28 and one in the SWNWNW of Sec. 27. The embankment does extend through both quarters, but it crosses the stream channel in the NENE of Sec. 28 and that is also where the outlet and level control structure is located. I have dropped the point of diversion listed in the SWNWNW of Sec. 27

as the outlet and point where the embankment actually crosses the stream channel are in the SENENE of Sec. 28. I have also dropped the 10 acre tract description down to the 40 acre description of NENE since the source is an unnamed stream and a 10 acre tract description isn't required for stream sources.

No mitigation for evaporative losses is required for this permit as the water surface area is an area which consisted of actively growing vegetation utilizing the surface spring water and or adjacent sub-water.

All conditions on the permit appear to have been met. One condition required an acre of irrigation to be dried up to mitigate for the initial fill of the pond when it was constructed. Approximately 39.5 acres were idled and dried up under the specified water rights in 2011 when the pond was constructed and the acres are visibly not irrigated in the 2011 aerial imagery in ArcMap (NWSW & SWNW of Sec. 22). I have placed condition R02 on the license as it is applicable for on-stream storage in water district boundaries. Since the level control structure has a lock hasp on it, the diversion works are currently compliant with condition R02.

Recommend licensing 2.2 AF for Wildlife Storage.

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>
WILDLIFE STORAGE	01/01 to 12/31		2.20 AF
<u>Totals:</u>			2.20 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 Bill Mills Date 11-18-2015

Reviewer [Signature] Date 1/29/16

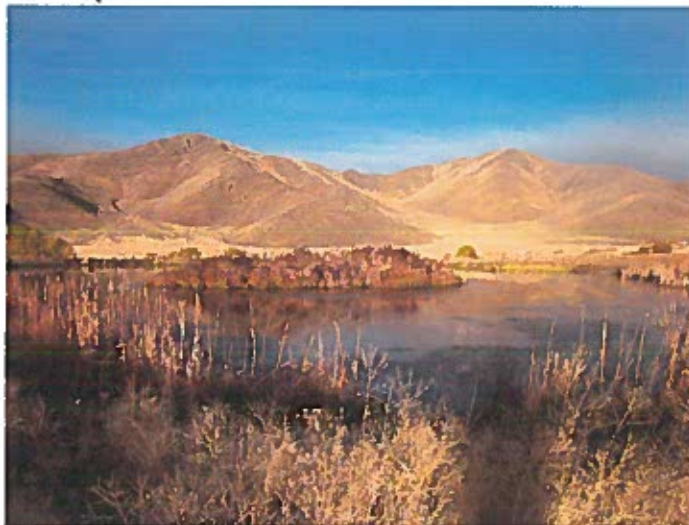


Figure 1: Looking northwest across the pond

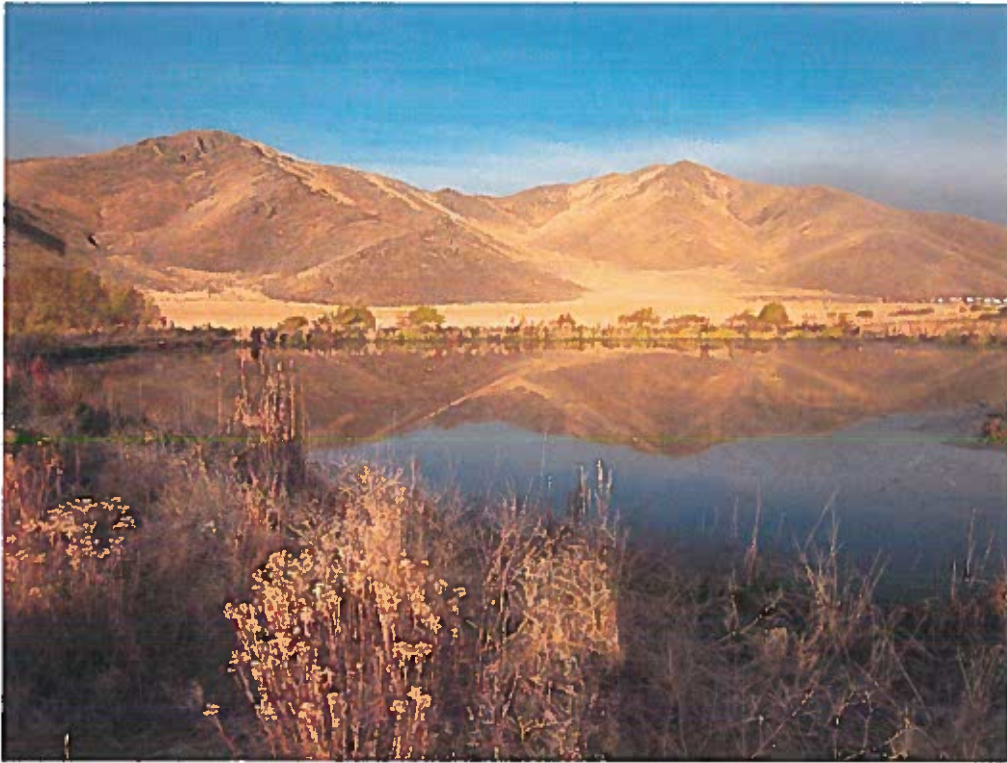


Figure 2: View of pond from South side



Figure 3: Access to level control structure



Figure 4: View inside level control apparatus-water rises up to orifice at preset height, excess flows through, cascades into outlet pipe and out to stream channel



Figure 5: Water flowing from unnamed stream on north side of pond

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