

[illegible]

Method of Determination: Verification in the field with Garmin GPS unit and aerial photography.

3. YES Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.
YES Aerial Photo Attached (required for irrigation of 10+ acres).
YES Photo of Diversion and System Attached

4.

<u>Well or Diversion</u> <u>ID No.*</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Pump Serial No. or Discharge</u> <u>Size</u>
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N/A – No wells or pumps are installed or operating on this system.

*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

<u>1. Measurement Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>
N/A						

2. Measurements:
N/A

E. FLOW CALCULATIONS

_____Additional Computation Sheets Attached

Measured Method: N/A – Measurement was not possible because there is no channel flowing into or out of the pond and there is no groundwater seepage into the pond to measure.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

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

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

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

2. Volume Calculations for Other Uses:

Storage volume of pond: 1.2 acres (surface area of pond) * 17 feet (maximum depth of pond) * 0.4 = 8 AF

[0.4 co-efficient was used in the calculations for the standard depth adjustment]

G. NARRATIVE/REMARKS/COMMENTS

This field exam was conducted on 8/16/2012 by Dennis Owsley. Clarence Lage, the owner of the property, accompanied me on the exam. This permit authorized the storage and diversion of water for stockwater and irrigation purposes. The source of water for this permit is run-off water, collected and stored in a pond built by the owner.

The design of the pond was developed to allow water to naturally flow out of the pond to irrigate a five acre hay field. The construction of the pond did not meet the owner's expectations, as the configuration of the completed pond did not allow water to naturally flow out of the pond. Due to the final design of the constructed pond, the owner was not able to gravity flood irrigate the hay field as planned. For one growing season, the owner installed a pump and pumped water from the pond to the hay field. However, the cost and effort of the pumping was not compensated in the amount of hay yielded, and this practice was not attempted again. Irrigation of the owner's land is not occurring, as he dry land farms all of his ground.

The maximum depth of the pond is 17 feet and is approximately one and a half acres in size when full. There is no connection to any type of surface water body as water from the pond cannot discharge or collect water from any stream or existing water source. The pond is filled through run-off of precipitation that falls on the owner's land and does not have a flowing outlet. The owner indicated he receives an average of 41 inches of precipitation per year, adequate to fill the pond each spring. The pond is currently being used as storage water for the owner's stock. Currently, there are three horses and mules utilizing the pond water. Historically, up to five horses and four mules have been watered through the pond. The water is provided to the stock through a standard water hose, siphoned over the top of the berm embankment, into the water trough provided for the stock. Water is diverted on an as needed basis.

In summary, the beneficial use of this water right includes the storage and delivery of water for stockwater purposes. I recommend this permit be licensed for 8 acre-feet of storage for stockwater usage. Whereas water cannot be diverted to or from the pond to any natural water way, I recommend that the source be changed to runoff and the fish screen requirement be removed. At the time of the permit, the owner indicated to the Department that a fish screen is not necessary as the pond has no inlet or outlet to a surface water body. Correspondence letters from the Idaho Department of Fish and Game (2006), the Idaho Department of Environmental Quality (2006), and the Idaho Department of Water Resources (2006), justify this determination.

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>
STOCKWATER FROM STORAGE	01/01 to 12/31		8.00 AF
STOCKWATER STORAGE	01/01 to 12/31		8.00 AF
	<u>Totals:</u>	0.000 CFS	8.00 AF

2. Recommended Amendments

☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None

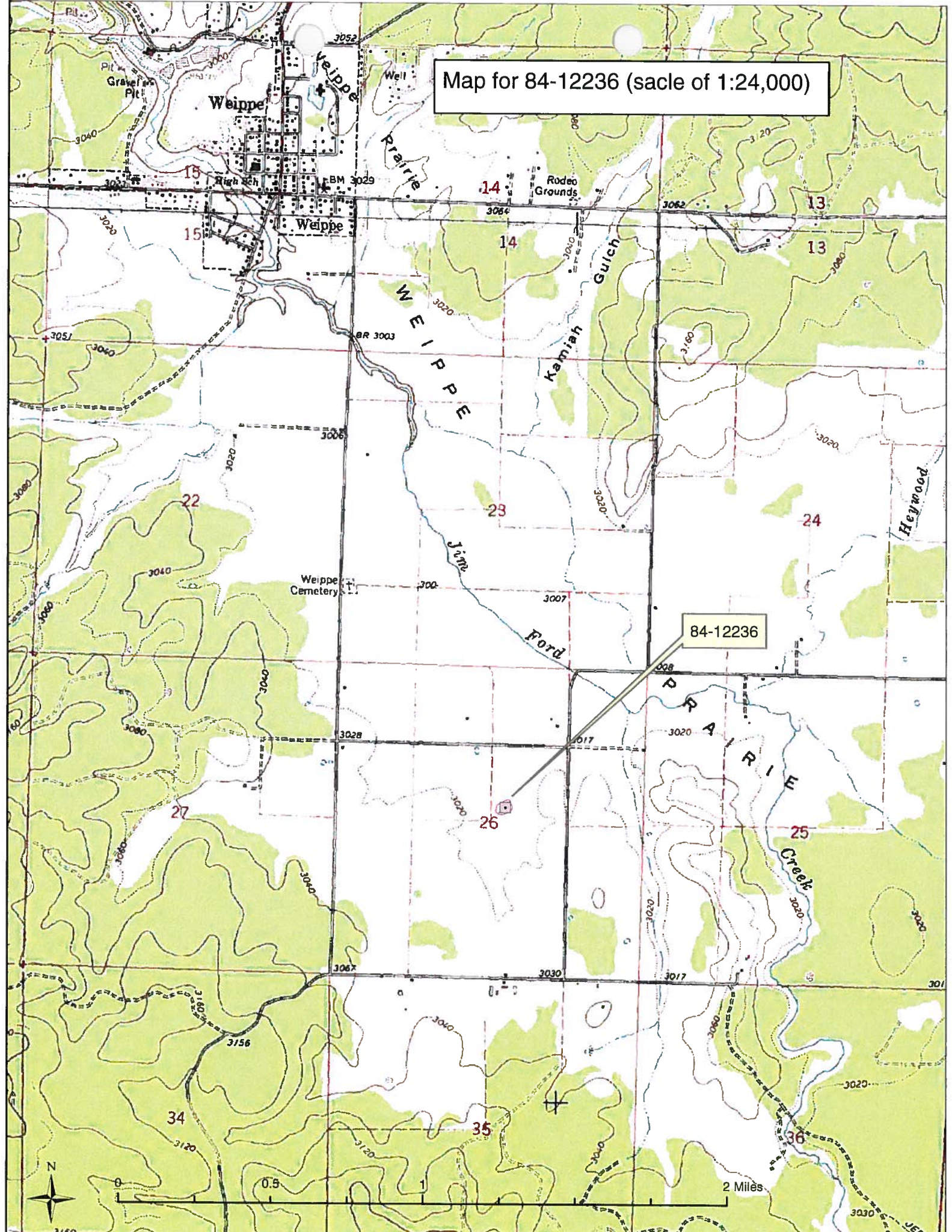
☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

I. AUTHENTICATION – Dennis Owsley

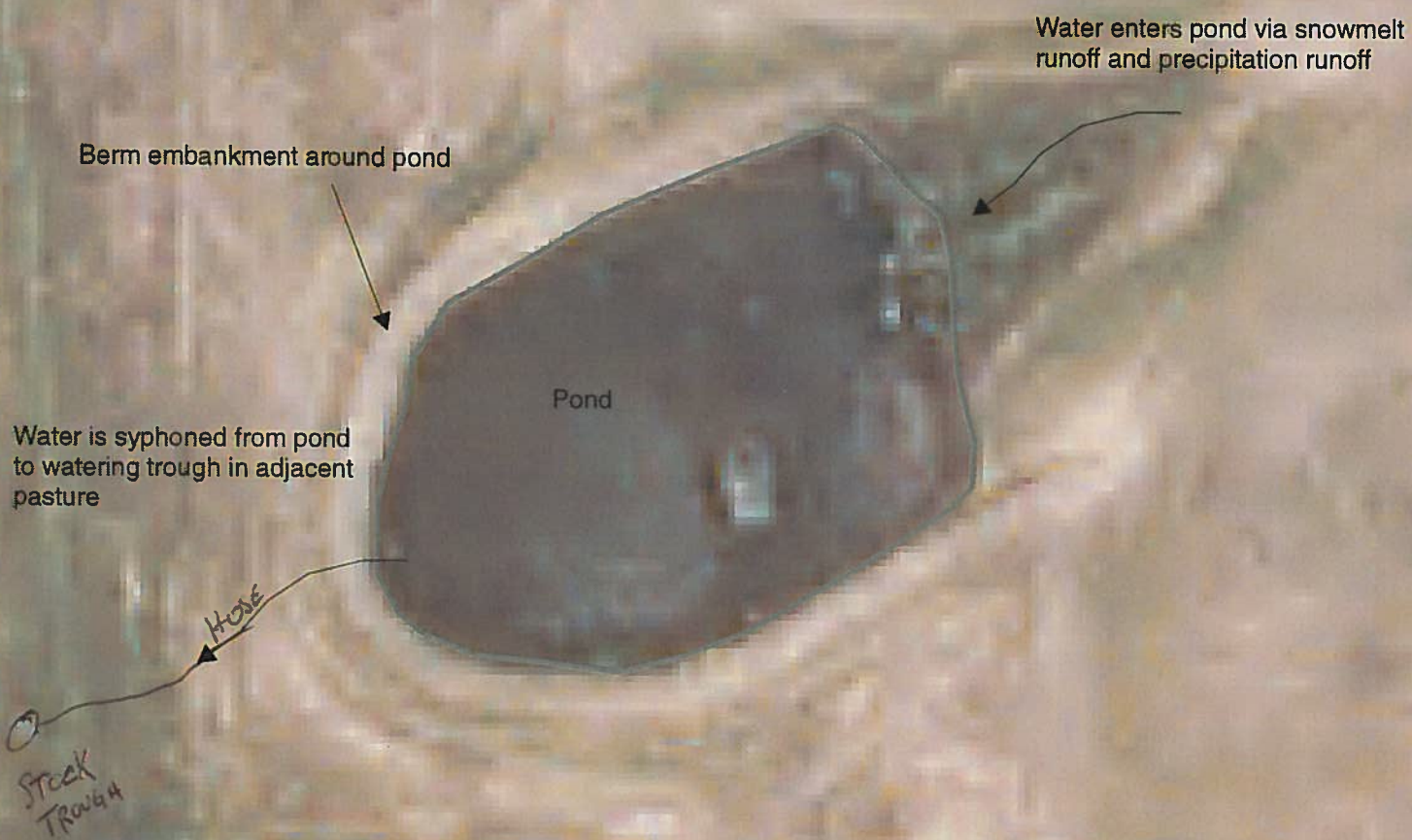
Field Examiner's Name Dennis Owsley Date 8/27/2012

Reviewer _____ Date _____

Map for 84-12236 (scale of 1:24,000)



Delivery System Diagram for 84-12236



0 125 250 500 Feet

Aerial Photo for 84-12236



0 250 500 1,000 Feet



Photo 1. View of the inlet of the pond. Photo taken on 8/16/2012 by D.O., looking to the southeast.



Photo 2. View of the berm on distant end of the pond. Photo taken on 8/16/2012 by D.O., looking to the south.



Photo 3. View of the pond looking to the south. Photo taken by D.O. on 8/16/2012.