

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 63-31593

Exam Date: 10/1/2013

1. Current Owner: RON SALI
919 S LINDER RD
EAGLE ID 83616
(208)344-4224
2. Accompanied by: RON SALI
Phone No:
Address:
Relationship to Permit Holder: SAME

3. SOURCE

UNNAMED DRAIN

TRIBUTARY

BOISE RIVER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: NONE
2. Other water rights with the same point of diversion: NONE

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

UNNAMED DRAIN	NE 1/4 SE 1/4	Sec. 14,	Twp 04N,	Rge 01W, B.M.
ADA County				
UNNAMED DRAIN	NE 1/4 SE 1/4	Sec. 14,	Twp 04N,	Rge 01W, B.M.
ADA County				
UNNAMED DRAIN	SE 1/4 SE 1/4	Sec. 14,	Twp 04N,	Rge 01W, B.M.
ADA County				
UNNAMED DRAIN	SE 1/4 SE 1/4	Sec. 14,	Twp 04N,	Rge 01W, B.M.
ADA County				
UNNAMED DRAIN	NE 1/4 SE 1/4	Sec. 14,	Twp 04N,	Rge 01W, B.M.
ADA County				
UNNAMED DRAIN	L9 SW 1/4 SE 1/4	Sec. 14,	Twp 04N,	Rge 01W, B.M.
ADA County				

Method of Determination: FIELD EXAM AND AERIAL PHOTOGRAPHS

2.

PLACE OF USE: FISH HABITAT 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	
04N	01W	14														X		X	X
																	L 9		

PLACE OF USE: WILDLIFE STORAGE

Tw	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
04N	01W	14													X		X	X	
																	L 9		

Method of Determination: AERIAL PHOTOGRAPHS AND FIELD EXAM

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.

<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>
POD 1			NOT APPLICABLE		
POD 2			"		
POD 3			"		
POD 4			"		
POD 5			"		
POD 6			"		

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

D. FLOW MEASUREMENTS

1.

<u>Measurement</u> <u>Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>
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2. Measurements: NONE TAKEN

E. **FLOW CALCULATIONS** ☐ Additional Computation Sheets Attached

NOT APPLICABLE – NO FLOW COMPONENT

Measured Method:

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: NOT APPLICABLE

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

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

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

2. Volume Calculations for Other Uses: FISH HABITAT STORAGE, WILDLIFE STORAGE

USING IDWR STANDARD EQUATION FOR POND VOLUME WITH SLOPED SIDED: SURFACE AREA [ACRES] X AVERAGE DEPTH X 0.4 = VOLUME

POND 1 = [0.12 ACRE SURFACE AREA] [AVERAGE DEPTH OF 12 feet] [0.4] = 0.58 AF

POND 2 = [0.12 ACRE] [7 feet] [.4] = 0.33 AF

POND 3= [0.10 ACRE] [6 feet] [.4] = 0.24 AF

POND 4 = [0.10 ACRE] [7 feet] [.4] = 0.28 AF

POND 5 = [0.06 ACRE] [7 feet] [.4] = 0.17 AF

POND 6 = [0.18 ACRE] [8 feet] [.4] = 0.58 AF

TOTAL = 2.18 AF

G. NARRATIVE/REMARKS/COMMENTS

This permit was issued for 2 af for fish habitat storage and wildlife storage. The source is an unnamed drain tributary to the South Fork of the Boise River. Permittee, Ron Sali, accompanied me on the exam.

The system is a well designed series of six excavated pools, and several riffles that were constructed, and natural runs on the unnamed drain, specifically for trout habitat. The system also provided a wildlife habitat for migratory birds and other wildlife.

The pools provide still, deep water for protection from predators and areas wherein the fish can preserve their energy. According to Mr. Sali, pool no. 1 was excavated to a depth of 18 feet [but has silted up since then], and pools 2 through 6 to a maximum depth of 10 feet.

A riffle is a short, relatively shallow [usually between 1 to 3 feet deep] and coarse-bedded length of stream over which the stream flows at higher velocity and higher turbulence than it normally does in comparison to a pool. A riffle is a food and oxygen source and is a spawning ground for fish.

Here, the runs are the portions of the unnamed drain that separates the pools and riffles. The current is not as swift as the riffles and are holding and feeding areas for trout.

Although generally it was easy to identify the runs and riffles in the system, it was difficult to identify the exact boundaries of the pools, and the portions that were excavated. However, I came up with a surface area of about 0.68 acres of the actual pools. The average depths are provided in the volume section of this report, and total 2.18 af. Mr. Sali stated that many of the pools has silted up and he did not think

the pools were as deep as originally excavated, so the 2.18 is likely high. The permitted volume of 2 af should be licensed.

The legal description of the place of use and points of diversion found during the exam are different from those permitted. According to a conversation memo by Steve Lester, dated 2/19/2003, located in the backfile, corrections were expected. The memo indicates no amendment fees are to be assessed.

Although the permittee owns about 150 acres, and there are several water rights appurtenant to the property, there are no POD or POU overlaps with those permitted here.

Permit condition no. 7 required that 0.5 acres be retired from irrigation to mitigate for evaporative losses. Mr. Sali stated that several acres were retired from irrigation in the area of the house, barn and horse arena and roads and it is clear from arials reviewed from 1987 to the present that at least 8 acres have been retired from irrigation in the areas he referenced.

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

H. RECOMMENDATIONS

- 1) Permit amount _____ cfs &/or 2 af storage
- 2) Beneficial use limit _____ cfs &/or n/a af storage
- 3) System measurement _____ cfs &/or 2.18 af storage
- 4) Proof fee amount _____ cfs &/or 20 af storage

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
FISH HABITAT STORAGE	01/01 to 12/31		2.00 AF
WILDLIFE STORAGE	01/01 to 12/31		2.00 AF
<u>Totals:</u>			2.00 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

Field Examiner's Name Wing Lucc Date 10-21-13

Reviewer _____ Date _____



63-31593-- 2011 BING PHOTOGRAPHY -- series of shallow pools and riffles for fish and wildlife habitat. PODs are the green points. The POU, the pools, are outlined in orange. Water flows through the pools to the west to the South Fork of the Boise River through the unnamed drain denoted by the dotted lines. The red numbers are the approximate surface acreage of the pools.

RECEIVED

FEB 14 2007

CONVERSATION MEMORANDUM

DEPARTMENT OF WATER RESOURCES

DATE

2/19/03

FILE

63-31593

NAME OF PARTY

EMPLOYEE

RE:

P/D & Logs re B.U. Exam

Application - 6 pld in 4 Q&Q but not sure how many pld per each Q&Q.

Permit - Allow 6 pld in SE 1/4 but do not require exact # pld per each Q&Q as listed on permit (selected how many per Q&Q arbitrarily to meet Iowa d'base/Arch view requirements).

B.U. Exam & licensing - can adjust # pld per Q&Q without \$50 licensing amendment fee based on this file history ... be sure to discuss in b.u. exam.

* blu exam discussion

63-31593 – Field exam photographs



Looking northwest at pool no. 1



In the left background is a riffle – a shallow, gravelly, turbulent area developed for spawning fish.



Pool no. 2



A riffle near pond no. 2



Pool no. 3



A riffle between pools 3 and 4.



Pool no. 4



Riffle between pools 4 and 5.



Pool 5.



Pool 6.



State of Idaho

DEPARTMENT OF WATER RESOURCES

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C.L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

August 28, 2013

RON SALI
919 S LINDER RD
EAGLE, ID 83616

Re Permit To Appropriate Water No. 63-31593

Dear Mr. Sali:

The permit referenced above was issued for a fish habitat storage use from an unnamed drain. This letter is to request that you call me to schedule the field exam for this permit. A field exam is required by Idaho law before a license can be issued, at which time it becomes a water right. The license is the end product needed for continued water use.

Additionally, please have available at the exam someone familiar with the system and its construction.

Please call me as soon as possible at 208.334.2190, to set an appointment for the exam. Failure to respond to this letter request **by September 30, 2013**, may result in the permit being voided or a license issued for less than the permitted amount. Thank you.

Sincerely,

A handwritten signature in black ink, appearing to read 'Vicky Music'.

Vicky Music
Sr. Water Resource Agent