

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 83-11971

Exam Date: 7/23/2015

1. Current Owner: ROBERT W REINEKE
~~1727 ELK RIVER RD~~ 595 RUSTIC MEADOW LN
 OROFINO ID 83544

2. Accompanied by: ROBERT W REINEKE
 Phone No: (208) 827.0415
 Address: 1727 ELK RIVER RD, OROFINO ID 83544
 Relationship to Permit Holder: Same

3. SOURCE

RUNOFF

TRIBUTARY

N. FORK CLEARWATER RIVER

Change from
Unnamed Stream on Permit**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 SYSTEM**1. LOCATION OF POINT(S) OF DIVERSION:**

RUNOFF SW1/4SE1/4 Sec. 16, Twp 38N, Rge 02E, B.M., CLEARWATER County

Method of Determination: ArcMap™ software, USGS 7.5 Minute Quadrangle 'Elk Creek Falls,' Garmin GPS receiver

2.

PLACE OF USE:

<u>PLACE OF USE:</u>			WILDLIFE STORAGE																
Twp	Rge	Sec	NE				NW				SW				SE				
			<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>Totals</u>
38N	02E	16																X	

Method of Determination:

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>
<u>Not Applicable</u>					

*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>
<u>Not Applicable</u>						

2. Measurements:

E. FLOW CALCULATIONS

____ Additional Computation Sheets Attached

Measured Method:

Not Applicable. No cfs amount on Permit 83-11971.**F. VOLUME CALCULATIONS**

1. Volume Calculations for Irrigation:

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

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

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

2. Volume Calculations for Other Uses:

Wildlife Storage = 2.8 AF by Permit (See attached worksheet & narrative.)

G. NARRATIVE/REMARKS/COMMENTS

The Pond (Place of Use) for Permit 83-11971 was visited July 23, 2015. Place of Use and Point of Diversion legal descriptions are accurately described on the Permit. GPS coordinates taken at the side of pond at 7:40 A.M. on July 23, 2015.

116 Degrees 12 minutes 29.6 Seconds ^{west} ~~East~~ longitude
46 Degree 37 minutes 53.7 Seconds North latitude

The first named body of water that water exiting the pond reaches is the North Fork of the Clearwater River instead of the Unnamed Stream shown on the Permit. The pond where Wildlife Storage occurs is situated in a bowl with higher ground on three sides and a slope to the South where an unnamed stream flows to Dworshak Reservoir (N Fork Clearwater River). No surface water was exiting the pond at the time of the Exam.

Review of the Application file indicates that the dam for the pond was planned to be lined. The amount of water in the pond at a mid-summer indicates that any seepage losses are small.

The pond measured 150 feet x 100 feet x 5 feet average depth at the time off the Exam. The calculated total Acre Feet from the pond size and evaporation exceeds the Permit 83-11971 amount. (see attached Worksheet).

The Permit Holder (Robert Reineke) indicated that he intended to relinquish Permit 83-11934 which is for a nearby spring during the Exam.

Substitute photos, taken by Mr. Reineke, were provided after the Exam. The original photos taken by IDWR did not come out due to defective equipment. A 2015 Preliminary ArcMap™ image (see attached) confirms the presence of the pond at the correct GPS location on the Exam date.

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		2.80 AF

Totals: 2.80 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

1. AUTHENTICATION

Field Examiner's Name Sharon M. Maffey Date 01-14-2016
Reviewer Keith E. Frank Date 2-19-2016

83-11971 REINEKE POND WORK SHEET (EXAM 07/23/2015)

POND SIZE SURFACE AREA $150' \times 100' = 15,000 \text{ SQ FT} / 43,560 = 0.343 \text{ AC} = .34 \text{ AC}$
 $15,000 \text{ SQ FT} \times 5' \text{ AV DEPTH} = 75,000 \text{ CU FT} = 75,000 / 43,560 = 1.72 = 1.7 \text{ AF}$

SURFACE AREA POND SURFACE AREA $0.343 \text{ ACRES} = 15,000 \text{ SQ FT}$
 $15,000 \text{ SQ FT} / 43,560 \text{ SQ FT} = 0.343 \text{ AC} = 0.34 \text{ AC}$

EVAPORATION: BASED ON SURFACE AREA OF 15,000 SQ FT

~~935,289~~ GALLONS PER DAY $\times 365 \text{ DAYS} / 325,850 \text{ GALLONS/AF}$
 $= 3.247 \text{ AF} = 3.25 \text{ AF} = 3.3 \text{ AF}$
 $1.05 \text{ AF} = 1.1 \text{ AF}$

SEEPAGE: NO SEEPAGE (LINED POND / DAM) (POND FILLED BY RUNOFF).

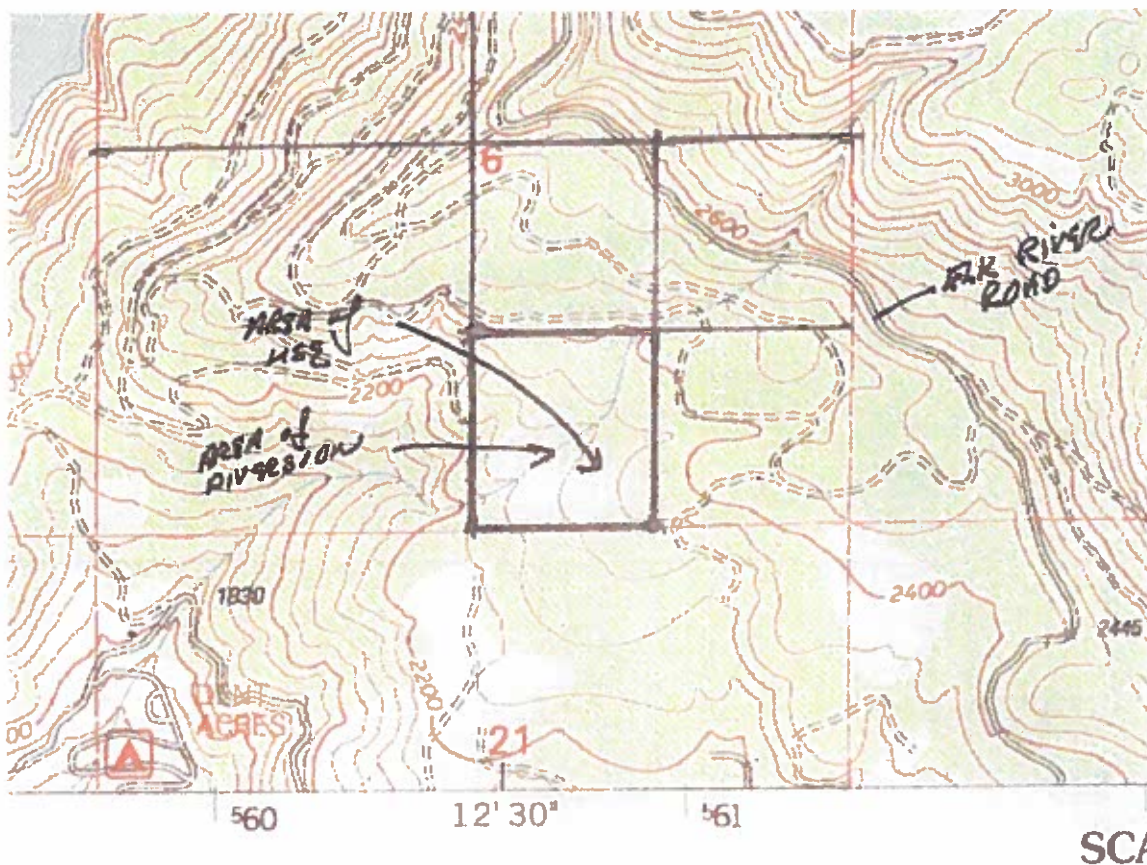
CFS AF (TOTAL CFS & STORAGE AF CANNOT EXCEED LARGEST SUBTOTAL & STOCKWATER)

5.0 WILDLIFE STORAGE

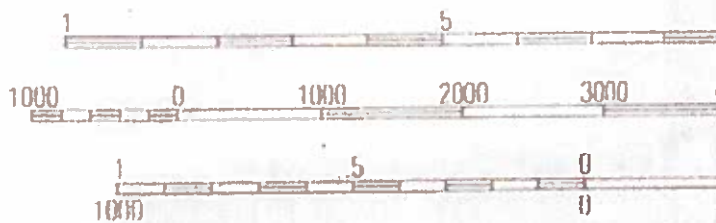
a.) POND SIZE
b.) EVAPORATION
c.) SEEPAGE
SUB TOTAL

1.7 AF
~~3.3 AF~~ 1.1 AF
0.0 AF
= ~~5.0 AF~~
2.8 AF

5.0 TOTAL



1 MAGNETIC NORTH
CENTER OF SHEET



CONTOUR
SUPPLEMENTARY
NATIONAL GEODE
TO CONVERT FEET

THIS MAP COMPLIES WITH
FOR SALE BY U
DENVER.
A FOLDER DESCRIBING TOPOGRAPHIC

MICROFILMED

SEP 16 2003

FAK CREEK Falls, ID
46116-F2-TF-024
1994
DMA 2777 ISNW
SERIES V893

State of Idaho
Department of Water Resources

Field Examination (2015 PRELIMINARY PHOTO)

83-11971

02E

38N



0 0.015 0.03 0.06 Miles



Prepared By: Maxey, Shaun

83-11971



POND VIEW SOUTH TO NORTH.



POND VIEW FROM NORTHEAST LOOKING WEST.

83-11971

83- 11971



POND VIEW FROM WEST TO EAST.



POND VIEW BEHIND PLATFORM.

83- 11971