

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 82-12237
Exam Date: 7/24/2015

1. Current Owner:
GARY BOWLING PO BOX 142 ELK CITY ID 83525 (208)794-1682
2. Accompanied by:
Phone No: (208) 794, 1682
Address: PO Box 142 ELK CITY, ID 83525
Relationship to Permit Holder: SAME

3. SOURCE: WHITAKER CREEK TRIBUTARY: AMERICAN 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:

WHITAKER CREEK NE $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 13, Twp 29N, Rge 08E, B.M. IDAHO County

Method of Determination: (See # 2 (c) below.)

2.

PLACE OF USE: FIRE PROTECTION 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	
29N	08E	13					X												

Method of Determination:

Garmin GPS Receiver, ArcMapTM, ELK CITY U.S.G.S.
Quadrangle (Topographic)

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.*
NOT APPLICABLE

D. FLOW MEASUREMENTS

NOT APPLICABLE

_____ Additional Computation Sheets Attached

E. FLOW CALCULATIONS

Measured Method:

NOT APPLICABLE

F. VOLUME CALCULATIONS**1. Volume Calculations for Irrigation: NOT APPLICABLE (NO Irrigation on Permit)**

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$$

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

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} =$$

2. Volume Calculations for Other Uses:**(SEE ATTACHED WORKSHEETS)****Pond Capacity:** 60 x 40 feet by 1.75 feet average depth = 5040 Cubic Feet

$$5040 / 43560 = .115 = .12 \text{ AF}$$

Seepage Pond is located on Whitaker Creek (On-Stream pond) **0.0 AF Seepage****Evaporation** (see attached Pond Analysis Spreadsheet) **0.0 AF Evaporation****FIRE PROTECTION STORAGE: 0.1 AF WORKSHEET****0.1 AF LIMIT BY PERMIT****G. NARRATIVE/REMARKS/COMMENTS**

Fire Storage Pond on Whitaker Creek visited with Applicant Gary Bowling 7/24/2015. Elevation per GPS is 4521 ft with 5 satellites visible at 9:20 A.M.

Dam GPS coordinates

-115 Degrees 24 Minutes 55.8 W Long.
45 Degrees 05 Minutes 21.6 N Lat

Whitaker Creek sinks in to the ground below the dam. Mine tailings and other mining disturbances appear to prevent Whitaker Creek from reaching the American River.

Pond capacity is 60 feet x 48 feet by 1.75 feet average depth. Depth is 2 feet at spillway. Pond is shadow and not visible from ArcMap™ aerial images.

Initial pond photo taken during Exam was unuseable and replaced by photo provided by Mr. Bowling.

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>
FIRE PROTECTION STORAGE	01/01 to 12/31		0.1 AF
<u>Totals:</u>			0.10 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 ☒ None

I. AUTHENTICATION

Field Examiner's Name Shawn M. May Date 04-08-2016
 Reviewer Morgan Case Date 4/12/2016

82-12237 BOWLING POND (ON-STREAM) WORK SHEET

POND SIZE SURFACE AREA 60' X 48' = 2,880 SQ FT / 43,560 = .066 = .07 AC

. 2,880 SQ FT X 1.75' AV DEPTH = 5,040 CU FT = 5,040 / 43,560 = = 0.115 = ~~0.1 AF~~ **.11 AF**
.11 AF

SURFACE AREA POND SURFACE AREA .07 ACRES = 2,880 SQ FT
2,880 SQ FT / 43,560 SQ FT = .066 AC = **.07 AC**

EVAPORATION: (SEE ATTACHED TOTAL STORAGE CALCULATIONS)
ESTIMATED EVAPORATION LOSS) **EVAPORATION = 0.0 AF**

SEEPAGE: SEEPAGE LOSSES OFFSET BY ON-STREAM REFILL BY
WHITAKER CREEK. **SEEPAGE 0.0 AF**

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

0.1 RECREATION STORAGE	a.) POND SIZE	0.1 AF
	b.) EVAPORATION	0.0 AF
	c.) SEEPAGE	0.0 AF
	SUB TOTAL	= 0.1 AF

0.1 TOTAL

82-12237

Total Storage Calculations

FILE NUMBER	82-12237
REVIEWER	Shaun Maxey
DATE	7/24/2016

This spreadsheet has been designed by Idaho Department of Water Resources to estimate the total seepage, evaporation and fill capacity required for a pond.

User Input
Calculated value
Formula Explanations

Surface Area (AC.)	0.07	"Surface Area" is automatically carried over from the "Seepage Loss" sheet.
Average Pond Depth (FT.)	1.75	"Average Pond Depth" depicts the actual depth of the pond either measured or estimated. Note: If you know the maximum depth and not the average depth, the Field Examiner's Handbook suggests multiplying the maximum depth by 0.4 to get the average depth, or you can use any method that seems reasonable to attain average depth.
Pond Capacity (AF)	0.1225	Pond Capacity is calculated by multiplying the Pond Surface Area by the Average Pond Depth. If you know the capacity, divide the capacity by surface area and enter the average pond depth in the space above. Note: If pond capacity is determined using a method shown on the "Pond Capacity" sheet, the user may need to modify the value of "Pond Capacity" (cell B9) manually. Note that if the value is modified manually, the formula will be altered for future use.
Multiple Fill Volume Above Initial Fill to Fulfill From Storage Needs- "Multiple Fills" (AF)	0	The "Multiple Fill Volume Above Initial Fill" is the acre-feet of water required to meet a <i>from storage</i> component if the <i>from storage</i> component exceeds a one time fill. This section should not include the amount of water needed to fill the pond initially or the amount of water needed to maintain the pond level due to evaporation or seepage. For example: if a pond has a capacity of 5 acre feet and 2.5 acre feet of seepage and evaporation, but the pond is used for irrigation that requires 10 acre feet of from storage for the irrigation use, then you would insert 5 acre feet into this location (10 acre feet needed - 5 acre feet from the initial fill = 5 acre feet of additional storage needed). Note: You must have a "From Storage" component exceeding the initial fill on the permit to include a volume in this space.
Estimated Seepage Loss (AF)	0.0	The "Estimated Seepage Loss" is automatically carried over from the "Seepage Loss" sheet.
Estimated Evaporation Loss (AF)	0.0	The "Estimated Evaporation Loss" is automatically carried over from the "Evaporation Loss" sheet.
Total Volume Required (AF)	0.1	The "Total Volume Required" is calculated by adding the Pond Capacity, Multiple Fills, Seepage Loss, and Evaporation Loss amounts to determine the total amount of storage required.

82-12237

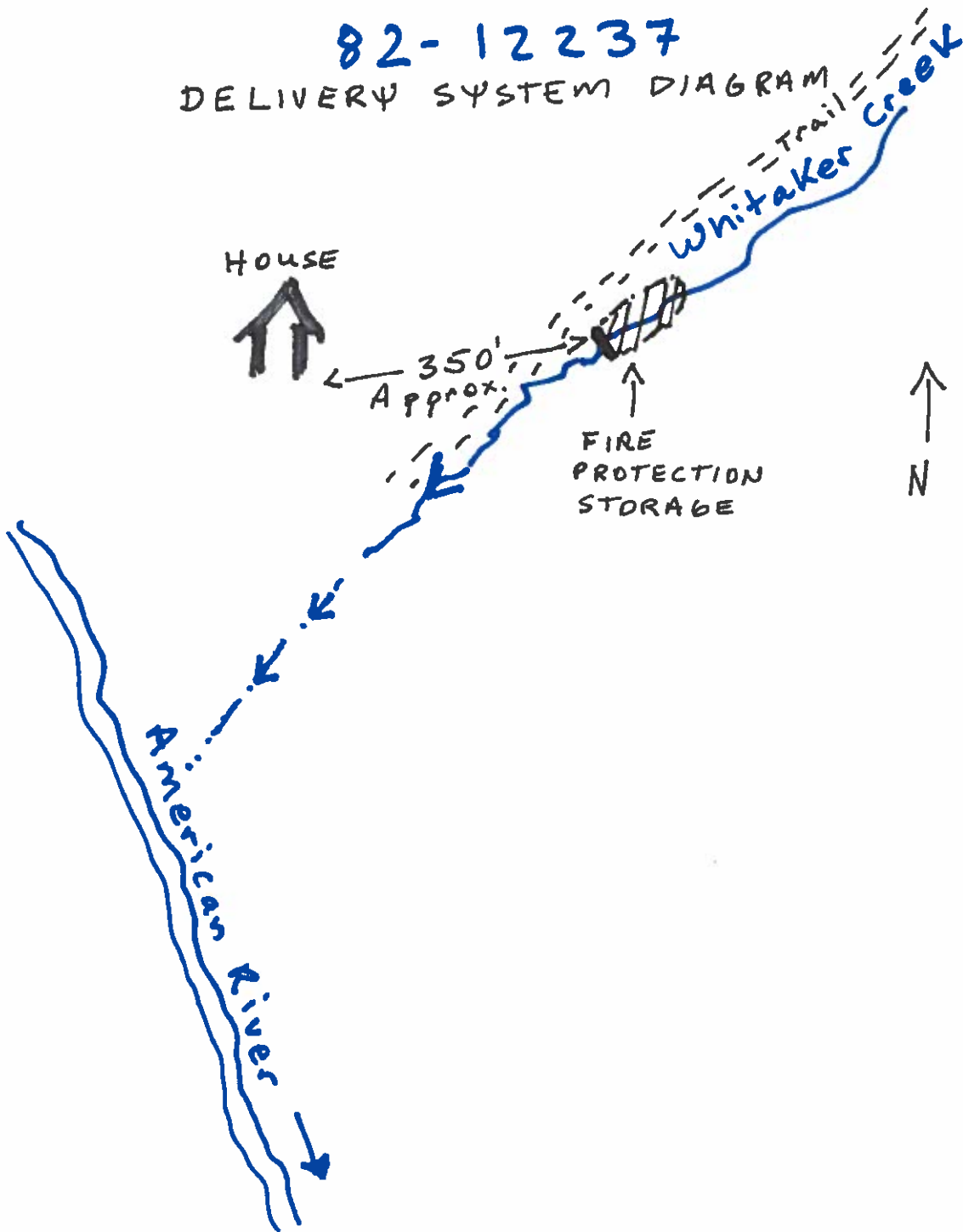
'Elk City'
U.S.G.S
7.5' Quad
Photo revised
1987

POND
FIRE PROTECTION
STORAGE

82-12237

82-12237

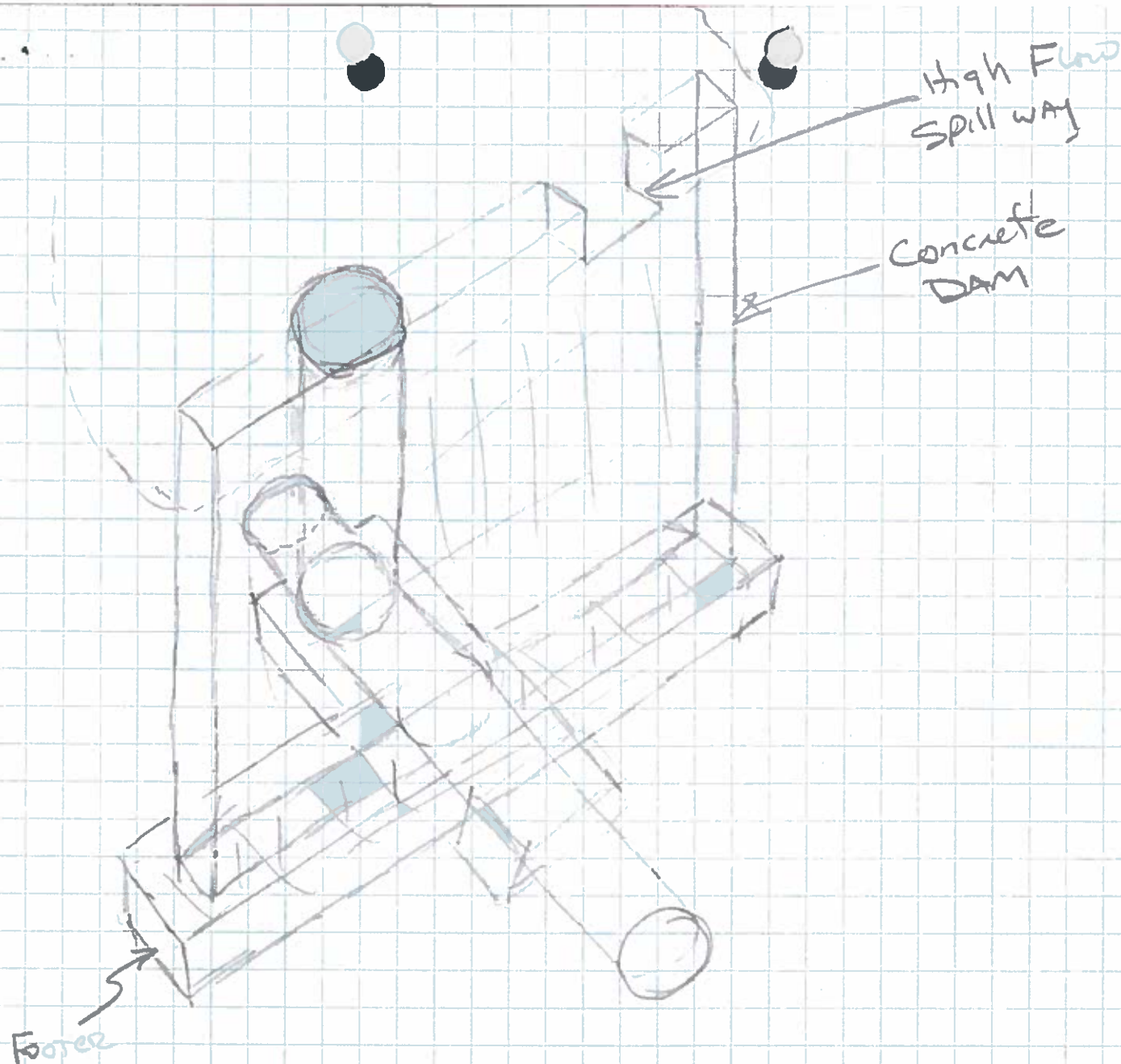
DELIVERY SYSTEM DIAGRAM



82-12237



82- 12237



BASIC DRAWING, Concrete DAM

Could use earth Behind Concrete
If additional strength is needed
with a gentle slope to Down side
Stream Bed.

This would help any Frogs, Insects, Bugs
or any other living creature traverse up and
own stream Bed.



State of Idaho

DEPARTMENT OF WATER RESOURCES

Northern Region, 7600 Mineral Drive, Suite 100, Coeur d'Alene, Idaho 83815

Phone: (208) 762-2800 FAX: (208) 762-2819 www.idwr.idaho.gov

June 10, 2015

C.L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

Gary Bowling
PO Box 142
Elk City, ID 83816

FIELD EXAM NOTICE

RE: PERMIT NO. 82-12237

Dear Mr. Bowling:

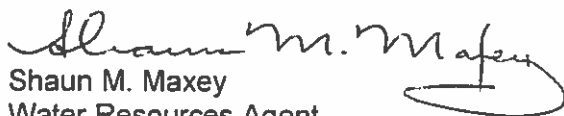
Please telephone or contact me at the Idaho Department of Water Resources (IDWR) address shown above to schedule a Field Exam at your Elk City property for Water Right Permit 82-12237. A copy of the Permit is enclosed.

Idaho Department of Water Resources (IDWR) is planning to conduct water right Field Examinations in the vicinity of your Permit during the week of **July 20-24, 2015**. The Examination is required to verify your water use in order to issue a Water Right License.

Please contact me concerning labeling the enclosed map with the pond location. The labeled map should be sent to me at the above address before the Examination.

I can be reached at (208) 762.2816 if you have any questions.

Respectfully,



Shaun M. Maxey
Water Resources Agent
Idaho Department of Water Resources, Northern Region

Enclosure
Copy of Permit 82-12237
IDWR map for labeling pond location