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STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

Ident. No. 85-15782

IDWR / NORTH

returned to
applicant & fee

APPLICATION FOR PERMIT

To appropriate the public waters of the State of Idaho

1. Name of applicant(s) BODINE, DAVID P Phone (208) 983.2736
 Name connector (check one): ☐ and ☐ or ☐ and/or
 Mailing address 1242 OLD HWY 7 GRANGEVILLE ID 83530 Email david@connectwireless.us
2. Name of representative, if any N/A Phone _____
 Mailing address _____ Email _____
- a. ☐ Send all correspondence for this application to the representative and not to the applicant OR
☐ Send original correspondence to the applicant and copies to the representative.
- b. ☐ The representative may submit information for the applicant but is not authorized to sign for the applicant OR
☐ The representative is authorized to sign for the applicant. Attach a Power of Attorney or other documentation providing authority to sign for the applicant.
3. Source of water supply UNNAMED STREAM which is a tributary of COTTONWOOD CREEK
4. Location of point(s) of diversion:

Twp	Rge	Sec	Govt Lot	1/4	1/4	1/4	County	Source	Local name or tag #
31N	02E	10			SW	NE	IDAHO	UNNAMED STREAM	
31N	02E	10			NW	SE	IDAHO	UNNAMED STREAM	

5. Water will be used for the following purposes:
- Amount 9.7 for STOCK WATER STORAGE purposes from 0101 to 1231 (both dates inclusive)
 (cfs or acre-feet per year)
- Amount 8.3 for RECREATION STORAGE purposes from 0101 to 1231 (both dates inclusive)
 (cfs or acre-feet per year)
- Amount 8.3 for WILDLIFE STORAGE purposes from 0101 to 1231 (both dates inclusive)
 (cfs or acre-feet per year)
- Amount 1.4 for STOCK WATER FROM STORAGE purposes from 0101 to 1231 (both dates inclusive)
 (cfs or acre-feet per year)
6. Total quantity to be appropriated is (a) _____ cubic feet per second (cfs) and/or (b) 9.7 acre-feet per year (af).
7. Proposed diverting works:
- a. Describe type and size of devices used to divert water from the source. ROCKED SPILLWAY ON EAST SIDE OF DAM (SEE ATTACHED PICTURES)
- b. Height of storage dam 9.8 feet; active reservoir capacity _____ acre-feet; total reservoir capacity SEE ATTACHED acre-feet. If the reservoir will be filled more than once each year, describe the refill plan in item 11. For dams 10 feet or more in height AND having a storage capacity of 50 acre-feet or more, submit a separate [Application for Construction or Enlargement of a New or Existing Dam](#). Application required? ☐ Yes ☒ No
- c. Proposed well diameter is N/A inches; proposed depth of well is _____ feet.
- d. Is ground water with a temperature of greater than 85°F being sought? ☐ Yes ☒ No
- e. If well is already drilled, when? N/A; drilling firm _____; well was drilled for (well owner) _____; Drilling Permit No. _____

For Department Use

Received by db Date 1/24/17 Time _____ Preliminary check by _____
 Fee \$ 100.00 Receipted by db Receipt No. ND32377 Date 2/3/17

8. Description of proposed uses (if irrigation only, go to item 9):

- a. Hydropower; show total feet of head and proposed capacity in kW. N/A
- b. Stockwatering; list number and kind of livestock. 100 HEAD RANGE CATTLE MIXED STOCK
- c. Municipal; must complete and attach the Municipal Water Right Application Checklist.
- d. Domestic; show number of households N/A
- e. Other; describe fully. WATER FOR STOCK, RECREATION & WILDLIFE AT SMALL POND

9. Description of place of use:

- a. If water is for irrigation, indicate acreage in each subdivision in the tabulation below.
- b. If water is used for other purposes, place a symbol of the use (example: D for Domestic) in the corresponding place of use below. See instructions for standard symbols.

TWP	RGE	SEC	NE				NW				SW				SE				TOTALS
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
31N	02E	10			SS											SS			
31N	02E	10			RS											RS			
31N	02E	10			WS											WS			
31N	02E	10			SPS											SPS			

Total number of acres to be irrigated: N/A

10. Describe any other water rights used for the same purposes as described above. Include water delivered by a municipality, canal company, or irrigation district. If this application is for domestic purposes, do you intend to use this water, water from another source, or both, to irrigate your lawn, garden, and/or landscaping? 85-11152 STOCKWATER
SNAKE RIVER BASIN ADJUDICATION

11. a. Who owns the property at the point of diversion? APPLICANT

b. Who owns the land to be irrigated or place of use? APPLICANT

c. If the property is owned by a person other than the applicant, describe the arrangement enabling the applicant to make this filing: N/A

12. Describe your proposal in narrative form, and provide additional explanation for any of the items above. Attach additional pages if necessary. SMALL DAM BUILT FOR STOCKWATER, RECREATION, AND WILDLIFE. TO IMPROVE ROTATIONAL GRAZING OF PASTURE TO AREA WITHOUT WATER SOURCE FOR WATERING CATTLE

13. Time required for completion of works and application of water to proposed beneficial use is 5 years (minimum 1 year).

14. **MAP OF PROPOSED PROJECT REQUIRED** - Attach an 8½" x 11" map or maps clearly identifying the proposed point of diversion, place of use, section #, township & range. The map scale shall not be less than two (2) inches equal to one (1) mile.

The information contained in this application is true to the best of my knowledge. I understand that any willful misrepresentations made in this application may result in rejection of the application or cancellation of an approval.

David P. Boone Jr.
 Signature of Applicant
DAVID P. BOONE JR.
 Print Name (and title, if applicable)

 Signature of Applicant

 Print Name (and title, if applicable)

Deepest spot in the pond is approximately 1 foot below grade. I estimate the discharge point for the pond to be 8.8 feet from grade to outlet with total depth of 9.8 feet total



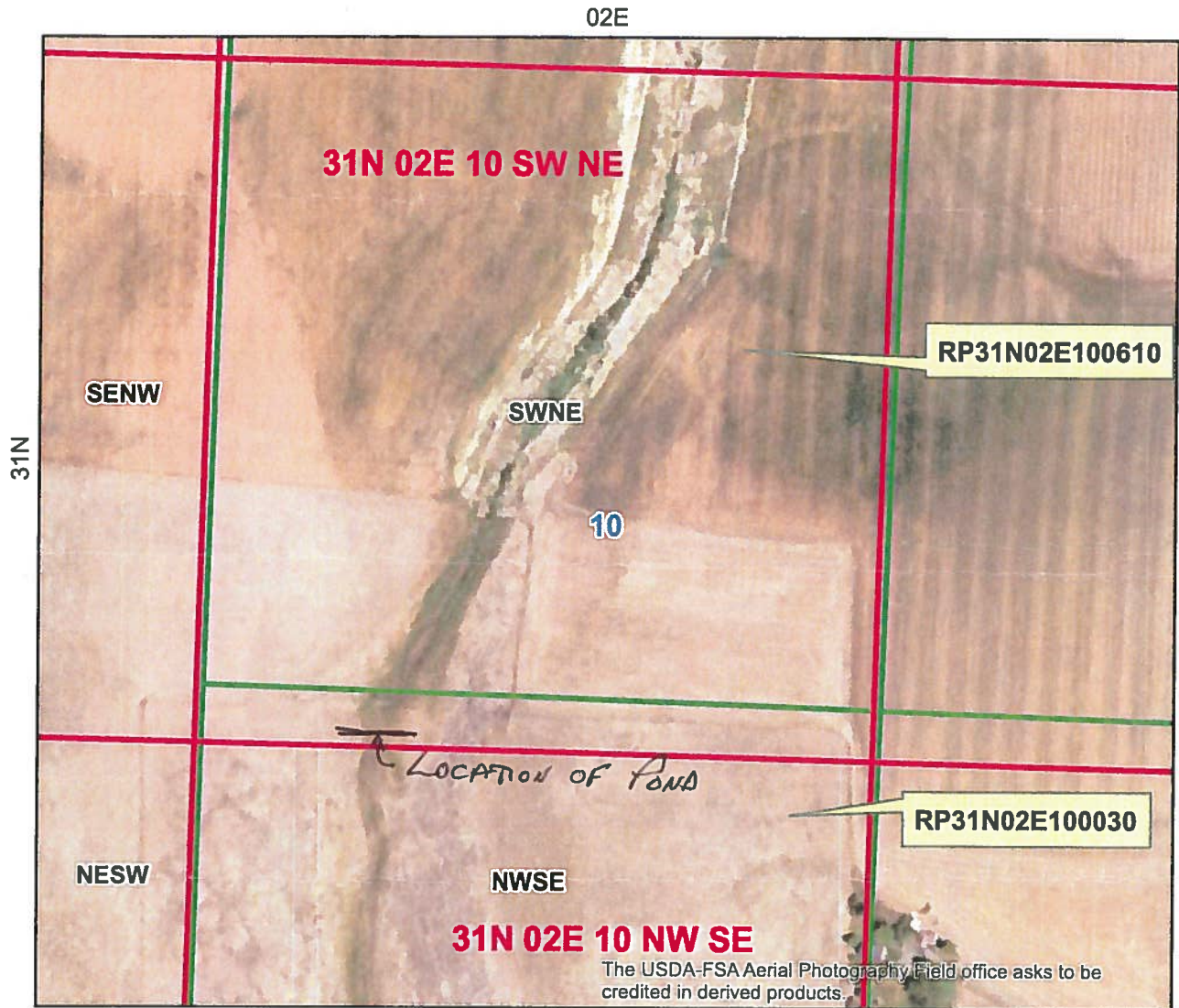
Pond is 300 feet wide from west to east at widest. The overflow discharge point is in the upper right corner by the straw bale. I estimate the pond will be 220 to 240 feet in length north to south at its fullest



ATTACHMENT

State of Idaho
Department of Water Resources
Application For Permit
85-XXXXX

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0 0.0425 0.085 0.17 Miles

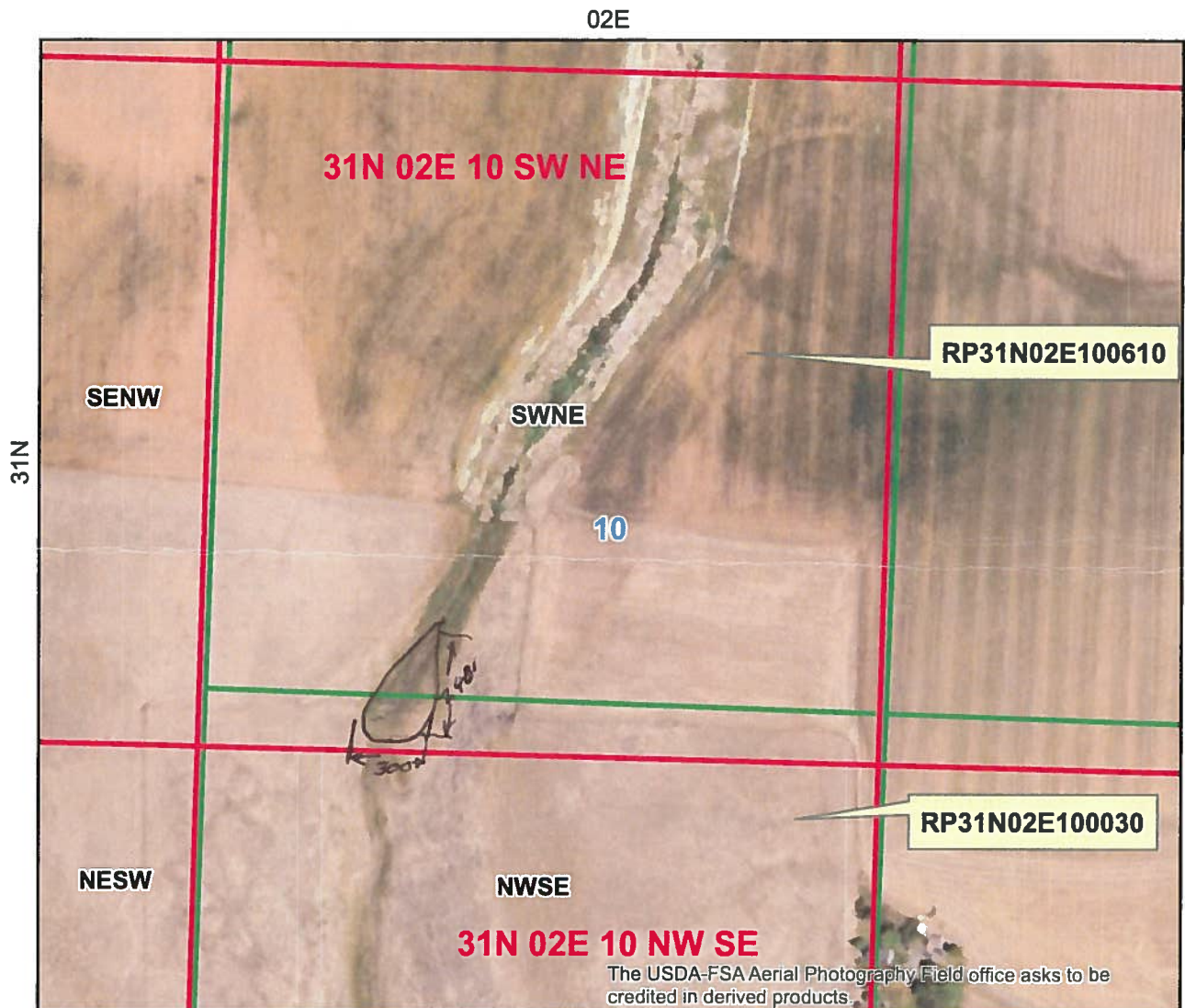
-  PLS Sections
-  Taxlots



ATTACHMENT

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0 0.0425 0.085 0.17 Miles

PLS Sections
Taxlots



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To: Bodine Water Right Application for Permit

From: Shaun M. Maxey

Date: April 26, 2017

SUBJECT: Pond information for Application for Permit

Re: Total Storage Calculations

Soil Class CL from the U.S. Soil Survey (see soil survey data attached to Application) was used for the Estimated Seepage Loss portion of the Total Storage Calculations.

Pond surface area (1.24409 acre) was calculated using area calculators, available on the Internet, for an Ellipse (See Attached information). Dimensions are based on information provided on an Application photograph and Applicant markings on a IDWR map.

The formula used for the Pond Capacity in Total Storage Calculations is shown on the page titled 'Freeform Polygon with Sloped Sides and Bottom'. The slope shown in the illustration is similar to that shown in an Application pond photograph.


Shaun M. Maxey
Idaho Department of Water Resources, Northern Region
7600 Mineral DR, Ste. 100
Coeur d'Alene, ID 83815

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Total Storage Calculations

FILE NUMBER	XX-XXXXXX
REVIEWER	Shaun Maxey
DATE	1/26/2017

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.)	1.24409	"Surface Area" is automatically carried over from the "Seepage Loss" sheet.
Average Pond Depth (FT.)	4.87	"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)	6.0587183	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)	1.4	The "Estimated Seepage Loss" is automatically carried over from the "Seepage Loss" sheet.
Estimated Evaporation Loss (AF)	0.9	The "Estimated Evaporation Loss" is automatically carried over from the "Evaporation Loss" sheet.
Total Volume Required (AF)	8.3	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.

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Flow Rate into Pond (CFS)	0.10	The "Flow Rate into Pond" depicts the actual flow, either measured or estimated, into the pond. For offstream facilities, this will be equivalent to "diversion to storage" rate.
Highest Daily Evaporation Rate From Evaporation Tab. (mm/Day)	2.85	This number is carried over from the "Evaporation Loss" sheet. It is the highest recorded number in the "Precipitation Deficit Table".
Required Daily Maintenance Volume (AF/Day)	0.02	"Required Daily Maintenance Volume" is the maximum volume of water needed on any given day during the year to maintain pond volume. It is calculated by adding the highest daily evaporation loss to the average daily seepage loss in acre feet. The average daily seepage loss is calculated by dividing the "Estimated Seepage Loss" by 365 days. This is acceptable, since the seepage rate shouldn't vary throughout the season unless the pond completely freezes over during the winter months. The highest daily evaporation loss is calculated by dividing the Highest Daily Evaporation Rate by the 304.8 conversion factor and multiplying this number by the pond surface area to attain a combined daily acre feet requirement.
Minimum Maintenance Flow (CFS)	0.01	The "Minimum Maintenance Flow" is the minimum amount of flow required to maintain the level of the pond. This number is determined by dividing the "Maximum Required Daily Maintenance Volume" by 1.9835. This flow can be used to determine if the flow rate into the pond is adequate to maintain the pond level.
Days Required to Fill the Pond	33	The "Days Required to Fill the Pond" is calculated by dividing the "Pond Capacity" by the "Flow Rate" minus "Minimum Maintenance Flow" multiplied by 1.9835. This section will assist you in determining if the flow rate being diverted to the pond is adequate to fill the pond while maintaining the pond level. The length of time to fill the pond will help determine if the flow rate is adequate for the size of pond being proposed. <i>If this number is approximately 6 months (180 days) or more, the reviewer should have a discussion with the applicant to make sure he/she understands that it will take a significant length of time to fill the pond.</i>
Days Required to Fill the Pond at 13,000 Gallons per Day	247	Some water users may want to fill a pond under the 13,000 gallons per day domestic exemption. The "Days Required to Fill the Pond at 13,000 Gallons per Day" is calculated by converting the "Pond Capacity" and the "Required Daily Maintenance Volume" to gallons. The "Pond Capacity" is then divided by 13,000 gallons minus the "Required Daily Maintenance Volume" in gallons to determine the number of days to fill pond. <i>If this number is approximately 6 months (180 days) or more, the reviewer should have a discussion with the applicant to make sure he/she understands that it will take a significant length of time to fill the pond.</i> Negative values indicate that the supply of 13,000 gallons per day is not enough volume to overcome the required daily maintenance volume; the pond will never fill.

ATTACHMENT

Report — Engineering Properties

Absence of an entry indicates that the data were not estimated. The asterisk "*" denotes the representative texture; other possible textures follow the dash. The criteria for determining the hydrologic soil group for individual soil components is found in the National Engineering Handbook, Chapter 7 issued May 2007 (<http://directives.sc.egov.usda.gov/OpenNonWebContent.aspx?content=17757.wba>). Three values are provided to identify the expected Low (L), Representative Value (R), and High (H).

Idaho County Area, Idaho, Western Part

Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth In	USDA texture	Classification		Pct Fragments		Percentage passing sieve number—				Liquid limit	Plasticity Index
					Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
							L-R-H	L-R-H	L-R-H	L-R-H	L-R-H	L-R-H	L-R-H	L-R-H
41—Ferdinand silt loam, 2 to 7 percent slopes														
Ferdinand	90	D	0-13	Silt loam	ML	A-7, A-4	0-0-0	0-3-5	88-94-100	71-83-100	62-77-98	50-63-80	29-36-43	5-9-13
			13-19	Cobbly silty clay loam	CL, GC	A-2, A-6, A-7	0-0-0	4-21-22	56-82-88	24-73-88	22-73-88	20-65-80	32-38-41	15-19-21
			19-32	Very cobbly silty clay, very cobbly silty clay loam	CH, CL, GC, SC	A-2, A-6, A-7	4-7-10	37-38-38	59-75-97	18-50-97	14-50-97	13-49-97	37-60-72	19-36-43
			32-42	Bedrock	—	—	—	—	—	—	—	—	—	—
46—Ferdinand-Riggins complex														
Ferdinand	45	D	0-13	Silt loam	ML	A-7, A-4	0-0-0	0-3-5	88-94-100	71-83-100	62-77-98	50-63-80	29-36-43	5-9-13
			13-19	Cobbly silty clay loam	CL, GC	A-2, A-6, A-7	0-0-0	4-21-22	56-82-88	24-73-88	22-73-88	20-65-80	32-38-41	15-19-21
			19-32	Very cobbly silty clay, very cobbly silty clay loam	CH, CL, GC, SC	A-2, A-6, A-7	4-7-10	37-38-38	59-75-97	18-50-97	14-50-97	13-49-97	37-60-72	19-36-43
			32-42	Bedrock	—	—	—	—	—	—	—	—	—	—
Riggins	35	D	0-8	Very gravelly silt loam	GC-GM, GC, CL	A-2, A-6, A-7	0-0-0	0-7-11	52-59-69	32-49-69	30-46-67	25-39-58	33-38-43	13-15-17
			8-13	Very gravelly clay loam, very gravelly loam	CL, GC	A-2, A-6, A-7	0-2-3	4-8-10	55-62-71	32-50-71	28-46-69	22-36-55	34-40-45	17-21-25
			13-23	Bedrock	—	—	—	—	—	—	—	—	—	—
84—Nez Perce silt loam, 7 to 12 percent slopes														
Nez perce	85	C/D	0-17	Silt loam	MH, ML	A-4, A-7	0-0-0	0-0-0	94-96-100	88-92-100	75-86-100	61-72-86	29-41-53	5-12-18
			17-20	Silt loam	MH, ML	A-4, A-7	0-0-0	0-0-0	94-96-100	88-92-100	75-86-100	61-72-86	29-41-53	5-12-18
			20-60	Silty clay, silty clay loam, clay	CH, CL	A-7	0-0-0	0-0-0	94-96-100	88-92-100	77-91-100	72-87-100	41-54-66	21-31-40
130—Wilkins silt loam														
Wilkins	80	C	0-20	Silt loam	CL, MH, ML	A-6, A-7	0-0-0	0-0-0	100-100-100	100-100-100	90-94-99	76-81-85	33-44-53	11-15-18
			20-27	Silt loam	CL, ML, MH	A-6, A-7	0-0-0	0-0-0	100-100-100	100-100-100	90-94-99	76-81-85	33-44-53	11-15-18
			27-40	Silty clay, clay	CH, CL	A-7	0-0-0	0-0-0	89-94-100	73-84-100	59-77-100	50-66-88	49-59-69	29-36-44
			40-60	Silty clay, clay	CH, CL	A-7	0-0-0	0-0-0	89-94-100	73-84-100	59-77-100	50-66-88	49-59-69	29-36-44

Description — Engineering Properties

Engineering Properties

This table gives the engineering classifications and the range of engineering properties for the layers of each soil in the survey area.

Hydrologic soil group is a group of soils having similar runoff potential under similar storm and cover conditions. The criteria for determining Hydrologic soil group is found in the National Engineering Handbook, Chapter 7 issued May 2007 (<http://directives.sc.egov.usda.gov/OpenNonWebContent.aspx?content=17757.wba>). Listing HSGs by soil map unit component and not by soil series is a new concept for the engineers. Past engineering references contained lists of HSGs by soil series. Soil series are continually being defined and redefined, and the list of soil series names changes so frequently as to make the task of maintaining a single national list virtually impossible. Therefore, the criteria is now used to calculate the HSG using the component soil properties and no such national series lists will be maintained. All such references are obsolete and their use should be discontinued. Soil properties that influence runoff potential are those that influence the minimum rate of infiltration for a bare soil after prolonged wetting and when not frozen. These properties are depth to a seasonal high water table, saturated hydraulic conductivity after prolonged wetting, and depth to a layer with a very slow water transmission rate. Changes in soil properties caused by land management or climate changes also cause the hydrologic soil group to change. The influence of ground cover is treated independently. There are four hydrologic soil groups, A, B, C, and D, and three dual groups, A/D, B/D, and C/D. In the dual groups, the first letter is for drained areas and the second letter is for undrained areas.

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The four hydrologic soil groups are described in the following paragraphs:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

Depth to the upper and lower boundaries of each layer is indicated.

Texture is given in the standard terms used by the U.S. Department of Agriculture. These terms are defined according to percentages of sand, silt, and clay in the fraction of the soil that is less than 2 millimeters in diameter. "Loam," for example, is soil that is 7 to 27 percent clay, 28 to 50 percent silt, and less than 52 percent sand. If the content of particles coarser than sand is 15 percent or more, an appropriate modifier is added, for example, "gravelly."

Classification of the soils is determined according to the Unified soil classification system (ASTM, 2005) and the system adopted by the American Association of State Highway and Transportation Officials (AASHTO, 2004).

The Unified system classifies soils according to properties that affect their use as construction material. Soils are classified according to particle-size distribution of the fraction less than 3 inches in diameter and according to plasticity index, liquid limit, and organic matter content. Sandy and gravelly soils are identified as GW, GP, GM, GC, SW, SP, SM, and SC; silty and clayey soils as ML, CL, OL, MH, CH, and OH; and highly organic soils as PT. Soils exhibiting engineering properties of two groups can have a dual classification, for example, CL-ML.

The AASHTO system classifies soils according to those properties that affect roadway construction and maintenance. In this system, the fraction of a mineral soil that is less than 3 inches in diameter is classified in one of seven groups from A-1 through A-7 on the basis of particle-size distribution, liquid limit, and plasticity index. Soils in group A-1 are coarse grained and low in content of fines (silt and clay). At the other extreme, soils in group A-7 are fine grained. Highly organic soils are classified in group A-8 on the basis of visual inspection.

If laboratory data are available, the A-1, A-2, and A-7 groups are further classified as A-1-a, A-1-b, A-2-4, A-2-5, A-2-6, A-2-7, A-7-5, or A-7-6. As an additional refinement, the suitability of a soil as subgrade material can be indicated by a group index number. Group index numbers range from 0 for the best subgrade material to 20 or higher for the poorest.

Percentage of rock fragments larger than 10 inches in diameter and 3 to 10 inches in diameter are indicated as a percentage of the total soil on a dry-weight basis. The percentages are estimates determined mainly by converting volume percentage in the field to weight percentage. Three values are provided to identify the expected Low (L), Representative Value (R), and High (H).

Percentage (of soil particles) passing designated sieves is the percentage of the soil fraction less than 3 inches in diameter based on an oven-dry weight. The sieves, numbers 4, 10, 40, and 200 (USA Standard Series), have openings of 4.76, 2.00, 0.420, and 0.074 millimeters, respectively. Estimates are based on laboratory tests of soils sampled in the survey area and in nearby areas and on estimates made in the field. Three values are provided to identify the expected Low (L), Representative Value (R), and High (H).

Liquid limit and plasticity index (Atterberg limits) indicate the plasticity characteristics of a soil. The estimates are based on test data from the survey area or from nearby areas and on field examination. Three values are provided to identify the expected Low (L), Representative Value (R), and High (H).

References:

American Association of State Highway and Transportation Officials (AASHTO). 2004. Standard specifications for transportation materials and methods of sampling and testing. 24th edition.

American Society for Testing and Materials (ASTM). 2005. Standard classification of soils for engineering purposes. ASTM Standard D2487-00.

ATTACHMENT

Area Calculator

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Ellipse

Result

Amount Unit

1.24409 acre

54,192.49661 square foot

6,021.38851 square yard

7,803,716.15152 square inch

0.0019439 square mile

5,034.64551 square meter

0.0050346 square kilometer

50,346,455.12313 square centimeter

Above is the same result in different units.

Major Axes: 115 foot

Minor Axes: 150 foot

Calculate

<https://www.calculator.net/area-calculator.html?majoraxes=115&majoraxesunit=foot&min...> 1/26/2017

Geometry calculator

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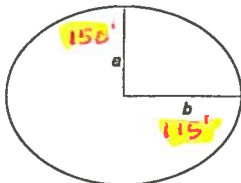
Geometry calculator

Ellipse

☒ Area

☒

$$A = \pi ab$$



Area

?

Axis a (a)

Enter value

Axis b (b)

300' width $\frac{1}{2} = a$ in above diagram = 150'
230' length $\frac{1}{2} = b$ in above diagram = 115'

<http://www.bing.com/widget/t/geodims?q=formula+for+ellipse+area&height=310&pos=3...> 1/26/2017

Pond Capacity Determination

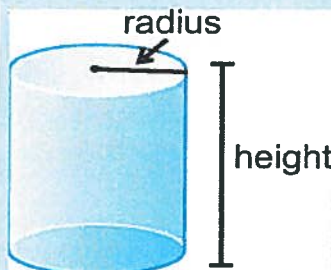
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Cylinder Shaped

$$\text{Volume} = \pi \cdot (\text{radius})^2 \cdot \text{height}$$

OR

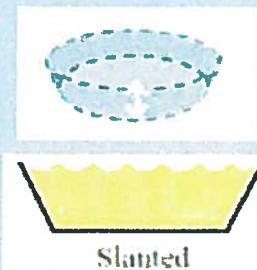
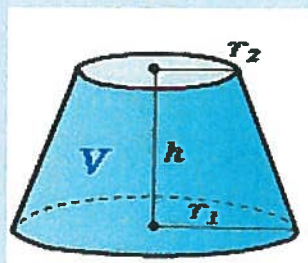
$$\text{Volume} = \text{circular surface area} \cdot \text{depth}$$



Truncated Cone Shaped

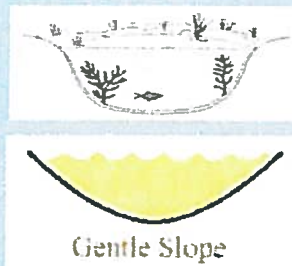
$$\text{Volume} = (1/3) \cdot \pi \cdot (r_1^2 + r_1 \cdot r_2 + r_2^2) \cdot h$$

where h = water depth
 r_1 = radius at top of basin
 r_2 = radius at bottom of basin



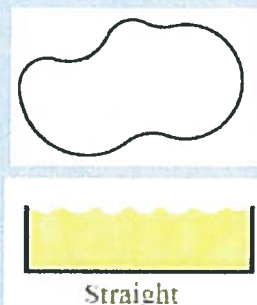
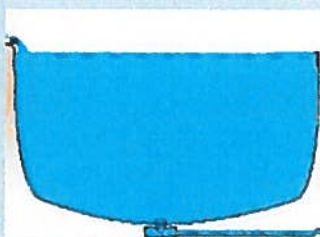
Freeform Polygon with Sloped Sides and Bottom

$$\text{Volume} = \text{surface area} \cdot (2/5) \cdot \text{maximum depth}$$



Freeform Polygon with Vertical Sides and Flat Bottom

$$\text{Volume} = \text{surface area} \cdot \text{maximum depth}$$



The surface area of a freeform polygons should be measured using aerial photography and ArcGIS.

For ponds with an unusual shape and inconsistent depth, the reviewer may be able to combine different shapes to calculate a total pond volume.

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FORM 202 Rev. 07/16
JAN 24 2017

COPY

showing incomplete application before white out.

STATE OF IDAHO

Ident. No. _____

DEPARTMENT OF WATER RESOURCES

IDWR / NORTH

APPLICATION FOR PERMIT

To appropriate the public waters of the State of Idaho

- Name of applicant(s) BODINE, DAVID P Phone (208) 983.2736
 Name connector (check one): ☐ and ☐ or ☐ and/or
 Mailing address 1242 OLD HWY 7 GRANGEVILLE ID 83530 Email david@connectwireless.us
- Name of representative, if any N/A Phone _____
 Mailing address _____ Email _____
 - ☐ Send all correspondence for this application to the representative and not to the applicant OR
☐ Send original correspondence to the applicant and copies to the representative.
 - ☐ The representative may submit information for the applicant but is not authorized to sign for the applicant OR
☐ The representative is authorized to sign for the applicant. Attach a Power of Attorney or other documentation providing authority to sign for the applicant.
- Source of water supply UNNAMED STREAM which is a tributary of COTTONWOOD CREEK
- Location of point(s) of diversion:

Twp	Rge	Sec	Govt Lot	1/4	1/4	1/4	County	Source	Local name or tag #
31N	02E	10			SW	NE	IDAHO	UNNAMED STREAM	
31N	02E	10			NW	SE	IDAHO	UNNAMED STREAM	

- Water will be used for the following purposes:
 Amount .03 for STOCK WATER STORAGE purposes from 0101 to 1231 (both dates inclusive)
 (cfs or acre-feet per year)
 Amount _____ for RECREATION STORAGE purposes from 0101 to 1231 (both dates inclusive)
 (cfs or acre-feet per year)
 Amount _____ for WILDLIFE STORAGE purposes from 0101 to 1231 (both dates inclusive)
 (cfs or acre-feet per year)
 Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
 (cfs or acre-feet per year)
- Total quantity to be appropriated is (a) _____ cubic feet per second (cfs) and/or (b) _____ acre-feet per year (af).
- Proposed diverting works:
 - Describe type and size of devices used to divert water from the source. ROCKED SPILLWAY ON EAST SIDE OF DAM (SEE ATTACHED PICTURES)
 - Height of storage dam 9.8 feet; active reservoir capacity _____ acre-feet; total reservoir capacity _____ acre-feet. If the reservoir will be filled more than once each year, describe the refill plan in item 11. For dams 10 feet or more in height AND having a storage capacity of 50 acre-feet or more, submit a separate [Application for Construction or Enlargement of a New or Existing Dam](#). Application required? ☐ Yes ☒ No
 - Proposed well diameter is N/A inches; proposed depth of well is _____ feet.
 - Is ground water with a temperature of greater than 85°F being sought? ☐ Yes ☒ No
 - If well is already drilled, when? N/A; drilling firm _____; well was drilled for (well owner) _____; Drilling Permit No. _____

For Department Use

Received by [Signature] Date 1/24/17 Time _____ Preliminary check by _____
 Fee \$ 100.00 Receipted by [Signature] Receipt No. 11032377 Date 2/3/17

COPY

8. Description of proposed uses (if irrigation only, go to item 9):

- a. Hydropower; show total feet of head and proposed capacity in kW. N/A
- b. Stockwatering; list number and kind of livestock. 100 HEAD RANGE CATTLE MIXED STOCK
- c. Municipal; must complete and attach the Municipal Water Right Application Checklist.
- d. Domestic; show number of households N/A
- e. Other; describe fully. WATER FOR STOCK, RECREATION & WILDLIFE AT SMALL POND

9. Description of place of use:

- a. If water is for irrigation, indicate acreage in each subdivision in the tabulation below.
- b. If water is used for other purposes, place a symbol of the use (example: D for Domestic) in the corresponding place of use below. See instructions for standard symbols.

TWP	RGE	SEC	NE				NW				SW				SE				TOTALS
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
31N	02E	10			SS					SS									
31N	02E	10			RS					RS									
31N	02E	10			WS					WS									

Total number of acres to be irrigated: N/A

10. Describe any other water rights used for the same purposes as described above. Include water delivered by a municipality, canal company, or irrigation district. If this application is for domestic purposes, do you intend to use this water, water from another source, or both, to irrigate your lawn, garden, and/or landscaping? 85-11152

11. a. Who owns the property at the point of diversion? APPLICANT

b. Who owns the land to be irrigated or place of use? APPLICANT

c. If the property is owned by a person other than the applicant, describe the arrangement enabling the applicant to make this filing: N/A

12. Describe your proposal in narrative form, and provide additional explanation for any of the items above. Attach additional pages if necessary. SMALL DAM BUILT FOR STOCKWATER, RECREATION, AND WILDLIFE. TO IMPROVE ROTATIONAL GRAZING OF PASTURE TO AREA WITHOUT WATER SOURCE FOR WATERING CATTLE

13. Time required for completion of works and application of water to proposed beneficial use is 5 years (minimum 1 year).

14. **MAP OF PROPOSED PROJECT REQUIRED** - Attach an 8½" x 11" map or maps clearly identifying the proposed point of diversion, place of use, section #, township & range. The map scale shall not be less than two (2) inches equal to one (1) mile.

The information contained in this application is true to the best of my knowledge. I understand that any willful misrepresentations made in this application may result in rejection of the application or cancellation of an approval.

David P. Boone Jr.
Signature of Applicant
DAVID P. BOONE JR.
Print Name (and title, if applicable)

Signature of Applicant

Print Name (and title, if applicable)

Ball, Dianne

From: Ball, Dianne
Sent: Thursday, March 09, 2017 2:25 PM
To: Legal Notices-ID CO Free Press (IFPlegals@idahocountyfreepress.com); 'Chapman Laurie'
Cc: Maxey, Shaun; Case, Morgan
Subject: Application for Permit No. 85-15782
Attachments: LegalNotice 03-09-17 IC e-mail 85-15782.doc

Good afternoon, Laurie,

Please publish the attached legal notice on the dates indicated, March 15 and 22, 2017 (once a week for two consecutive weekly issues). If you cannot publish the notice on the proposed dates, please contact us immediately.

This should be very close to press ready – for **2**-column, 8pt, maybe even close enough to just copy and paste, with very little adjustment required.

Please note the area(s) under **USE** containing dates and water amounts that are offset and lined up. Our legal should appear in this format.

Please also send a proof/preview copy for my review before this actually goes to press.

If you have any questions, please contact me as early as possible.

An affidavit of publication must be submitted to the Department along with the publication bill. Please send the affidavit and bill to this office before 4/3/2017. Your assistance is greatly appreciated. It's a pleasure to work with you. Thanks.

Dianne Ball

Administrative Assistant
Idaho Department of Water Resources
7600 N Mineral Dr., Ste. 100
Coeur d'Alene, ID 83815
208-762-2800 Fax 208-762-2819

The following application(s) have been filed to appropriate the public waters of the State of Idaho:

85-15782

DAVID P BODINE JR

1242 OLD HWY 7

GRANGEVILLE, ID 83530

Point of Diversion SWNE S10 T31N R02E IDAHO County

Source UNNAMED STREAM tributary COTTONWOOD CREEK

Point of Diversion NWSE S10 T31N R02E IDAHO County

Source UNNAMED STREAM tributary COTTONWOOD CREEK

Use: RECREATION Storage 01/01 to 12/31 8.3 AF

Use: STOCKWATER from Storage 01/01 to 12/31 1.4 AF

Use: STOCKWATER Storage 01/01 to 12/31 9.7 AF

Use: WILDLIFE Storage 01/01 to 12/31 8.3 AF

Total Diversion: 9.7 CFS

Date Filed: 2/3/2017

Place of Use: WILDLIFE Storage T31N R02E S10 SWNE

NWSE

Place of Use: ALL OTHER STORAGE same as WILDLIFE

Place of Use: STOCKWATER from Storage T31N R02E S10

SWNE NWSE

Domestic use is for 1 home.

Stockwater use is for 100 head of mixed stock.

Permits will be subject to all prior water rights. For additional information concerning the property location, contact Northern Region office at (208) 762-2800; or for a full description of the right(s), please see:

<http://www.idwr.idaho.gov/apps/ExtSearch/WRApplicationResults/>

Protests may be submitted based on the criteria of Idaho Code § 42-203A. Any protest against the approval of this application must be filed with the Director, Dept. of Water Resources, Northern Region, 7600 Mineral Drive, Suite 100, Coeur D' Alene ID 83815 together with a protest fee of \$25.00 for each application on or before 4/3/2017. The protestant must also send a copy of the protest to the applicant.

GARY SPACKMAN, Director

Published on 3/15/2017 and 3/22/2017



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

C.L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

March 9, 2017

DAVID P BODINE JR
1242 OLD HWY 7
GRANGEVILLE, ID 83530

Application For Permit No. 85-15782

Dear Applicant(s):

The Department of Water Resources has received your water right application. Please refer to the number referenced above in all future correspondence regarding this application.

A legal notice of the application has been prepared and is scheduled for publication in the IDAHO COUNTY FREE PRESS on 3/15/2017 and 3/22/2017. Protests to this application may be submitted for a period ending ten (10) days after the second publication.

If the application is protested, you will be sent a copy of each protest. All protests must be resolved before the application can be considered for approval. If the protest(s) cannot be resolved voluntarily, the Department will conduct a conference and/or hearing on the matter.

If the application is not protested, the Department will process your application and notify you of any action taken on the application. If your application is approved, the Department will send you a copy of the permit.

Please contact this office if you have any questions regarding the application.

Sincerely,

A handwritten signature in black ink that reads "Shaun M. Maxey". The signature is fluid and cursive, with a large loop at the end of the last name.

Shaun M Maxey
Senior Water Resource Agent

Enc. Receipt No. N032377

Ball, Dianne

From: Ball, Dianne
Sent: Thursday, March 09, 2017 12:00 PM
To: rhennekey@idfg.idaho.gov; Cynthia.Barrett@deq.idaho.gov; Clark, Cynthia (Bridge)
Cc: Maxey, Shaun; Case, Morgan
Subject: RE: Application for Permit No. 85-15782
Attachments: app-maps-etc-85-15782.pdf

Hi, Ray, Cindy and Cynthia:

The Department of Water Resources is seeking written comment and/or recommendations from your agency regarding the above referenced water right application. A copy of the application is attached for your reference.

This is being prepared for publication in the Idaho County Free Press on March 15 and 22, 2017 with April 3, 2017 being last date for protests to be received in our office.

Your prompt response to this request is appreciated. If your agency desires to formally protest the approval of this application, you may do so after the notice is published by filing a written protest along with a \$25.00 filing fee within 10 days after final publication. Please contact Shaun Maxey in our office if you have any questions regarding this application.

Sincerely,

Dianne Ball

Administrative Assistant
Idaho Department of Water Resources
7600 N Mineral Dr., Ste. 100
Coeur d'Alene, ID 83815
208-762-2800 Fax 208-762-2819

Maxey, Shaun

From: david <david@connectwireless.us>
Sent: Tuesday, February 14, 2017 5:02 PM
To: Maxey, Shaun
Subject: changes to application for permit

I would like to note the following changes to my Application For Permit:

1. I would like any places in the application where my name appears as David P. Bodine to appear as David P. Bodine Jr.
2. 'The Purposes and Amounts of water shown on Page 1 #5 and #6 of my February 3, 2017 Application for Permit were set after I reviewed the Storage Calculations Worksheet dated 1/26/2017. I made the changes shown on the February 3, 2017 Application after getting a better understanding of the uses that should be on the Application and the pond dimensions. I made the pen-and-ink and white-out changes to the incomplete 1/24/17 Application that shows .03 cfs for Stock water Storage.'

Thanks you for your attention to these matters.

David P. Bodine Jr.

David Bodine
1242 Old Highway 7
Grangeville, ID 83530
January 31, 2017

RECEIVED
FEB 03 2017
IDWR / NORTH

State of Idaho
Department of Water Resources
7600 Mineral Drive, Suite 100
Coeur d' Alene, ID 83815

Please find enclosed Application for Permit, and a check #1038 for \$100.00 to cover Application Fee.
Thank you for your assistance.

Sincerely yours,

A handwritten signature in cursive script, appearing to read "David Bodine", written in dark ink.

David Bodine