

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 65-23612

Exam Date: 10/4/2016

1. Current Owner:

BEN L SHORTS 669 MIDDLEFORK RD GARDEN VALLEY ID 83622 (208) 989-3544 And/Or

DEBRA A SHORTS 669 MIDDLEFORK RD GARDEN VALLEY ID 83622 (208) 989-3544

2. Accompanied by: Ben and Debra Shorts

Phone No: 699 Middlefork Road, Garden Valley, ID 83622

Address: (208) 989-3544

Relationship to Permit Holder: Owners

3. SOURCE:

UNNAMED STREAM

TRIBUTARY:

MIDDLE FORK PAYETTE RIVER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: None; 65-3222 and 65-8290 are irrigation rights from Scriver Creek, therefore, not pertinent to WR permit no. 65-23612.

2. Other water rights with the same point-of-diversion: None

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

UNNAMED STREAM NW¼SW¼ Sec. 23, Twp 10N, Rge 04E, B.M. BOISE County

Method of Determination: Field exam and PLS data was used to verify the WR permit legal descriptions.

2.

PLACE OF USE: STOCKWATER 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	
10N	04E	23										X							

Method of Determination: Field exam and PLS data was used to verify the WR permit legal descriptions.

3.

Delivery System Diagram Attached (required). Indicate all major components and distances between components.

X 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.

NAX Aerial Photo Attached (required for irrigation of 10+ acres).X Photo of Diversion and System Attached

4.

Well or Diversion ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
NA	NA	NA	NA	NA	NA

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

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
NA	NA	NA	NA	NA	NA	NA

2. Measurements:

E. FLOW CALCULATIONS☒ Additional Computation Sheets Attached**F. VOLUME CALCULATIONS**

1. Volume Calculations for Irrigation: NA

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

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

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

2. Volume Calculations for Other Uses:

4 mixed stock use @ 0.2 afa per Administrator's Memorandum No. 3

Pond Analysis:

Seepage: 0.6 afa

Evaporation: 0.4 afa

Capacity: 0.7 afa

Use: 0.2 afa (not used in calculation)

Total = 1.7 afa

Stockwater Storage = 1.7 afa

G. NARRATIVE/REMARKS/COMMENTS

The field exam was conducted on October 4, 2016 by agent Aaron Skinner and was accompanied the permit holders, Ben and Debra Shorts.

Taxlot data indicates the Shorts as the current property owner matching ownership of WR permit no. 65-23612.

The unnamed stream initiates through a culvert at the permit holder's property edge, cater-cornered from the driveway of 668 Middlefork Road. The stream continues roughly 600' and starts to pool, super saturating the ground and runs into the excavated pond. The pond sits on 0.25 acres and has a maximum depth of 6.5 feet that was measured during the development stage. The owner drove 8' posts into the ground and attached 4' green posts on top of them. Depending on how deep the 8' posts were driven, there is about 3.5' of exposed fence, justifying the pond's 6.5' maximum depth. An average depth of the pond was calculated based on the shape and sloped sides of the pond. The average depth is 2.6' (6.5' X 0.4). In turn, this established a pond capacity of 0.65 af (surface area X average pond depth or 0.25 acres X 2.6').

WR permit no. 65-23612 allowed development for stockwater storage for 25 range cattle. The field exam revealed only three (3) horses for beneficial use. Administrator's Memorandum #3 suggests a use volume of 0.2 afa (0-10 range cattle have the same standards as horses and mules). Historically it's been the Department's policy to license the volume of water diverted/beneficially used for the stockwater storage ponds (capacity + evaporation + seepage) without consideration of limiting based on the number of animals that drink from the pond. Pond loss calculations were completed as shown in Section F of this field exam report. Although 1.9 afa was permitted for development, only 1.7 afa is recommended for licensing. Seepage, evaporation, and capacity total 1.7 afa, therefore, 1.9 afa cannot be forwarded to license. This discrepancy could be a product of the pond loss parameters. It is unclear whether or not the pond loss calculations were used during the application/permitting stage. There is no beneficial use rate associated to this permit/license as the owners are only storing water.

Overlap analysis of the POD reveal no concerns. POU analysis also show no overlap, as WR nos. 65-3222 and 65-8290 are irrigation rights from Scriver Creek, therefore, not pertinent to WR permit no. 65-23612.

All conditions are forwarded to licensing. 219 and 220 were update to the pond capacity relative to the pond loss spreadsheet.

Have conditions of permit approval been met? X 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 STORAGE	01/01 to 12/31		1.7 AF
<u>Totals:</u>			1.70 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 Aaron Skinner Date 10/4/2016

Reviewer [Signature] Date 2/6/17

System Diagram for Permit 65-23612



Legend

- ⊗ Place of Diversion
- Place of Use
- Unnamed Stream

0 75 150 300 Feet

The USDA-FSA Aerial Photography Field office asks to be credited in derived products.

POD and POU for Permit 65-23612

SWNW

23

10N04E

Boise

NWSW

Legend

⊗ Place of Diversion

Place of Use



0 75 150 300 Feet

The USDA-FSA Aerial Photography Field office asks to be credited in derived products.

Seepage Loss Calculations

This spreadsheet has been designed by Idaho Department of Water Resources to estimate the total annual seepage losses from a pond.

FILE NUMBER	65-23612
REVIEWER	Aaron Skinner
DATE	10/4/2016

User Input
Calculated value
Formula Explanations

INPUTS

Pond Surface Area (AC.)	0.25	AC.
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Pond Surface Area (SQ. FT.)	10890	SQ. FT.
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I used the following method to obtain my Soil Classification information:	NRCS Web Soil Survey	
My Soil Classification is	SC	
Suggested Seepage Rate (FT./DAY)	0.0070	FT./DAY

Formula: (Surface Area X Seepage Rate) X 7.48 = Gallons Per Day Loss
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Convert to GPD	570	GPD
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Total Seepage Loss (AFA)	0.6	AFA
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Though sand and gravel seepage rates may actually be higher, the maximum allowable rate is 0.2 ft/day, pursuant to Administrative Memo "Seepage Loss Standards for Ponds and Reservoirs."

Suggested Seepage Rates for Different Soil Types:

GW, GP, GM, GC, SW, SP and SM (silty sand, sand silt mixtures and gravel mixtures) = 0.2 ft per day

OL and ML (inorganic silts - very fine sands, silty, or clayey fine sands) = 0.02 ft per day

SC (clayey sands, sand clay mixtures) = 0.007 ft per day

CL (Low to medium plasticity clays) = 0.003 ft per day

MH, OH, PT and CH (high plasticity clays) = 0.0003 ft per day

LINED PONDS (liners can be chemical, fabric, or bentonite) = 0 ft per day

Ponds Intercepting Groundwater (excavated ponds filled by ground water) = 0 ft per day

PLEASE NOTE: The initial basis for the Suggested Seepage Rates in the table above is found on Page 16 of Seepage from Fish Ponds, Bulletin 599, August 1989 Alabama Agricultural experiment Station, Auburn University, Auburn University Alabama. If you don't know the soil type, please refer to the map provided at the NRCS Web Soil Survey (Tab #1), an ArcMap Soil Classification Map (Tab #1.1), or published NRCS Soil Survey (Tab #1.2). Use "0" if the pond fill relies on the water table.

Evaporation Loss Calculations

This spreadsheet has been designed by Idaho Department of Water Resources to estimate the annual evaporation losses from a pond.

FILE NUMBER	65-23612
REVIEWER	Aaron Skinner
DATE	10/4/2016

User Input
Calculated value
Formula Explanations

The acronyms used on the Kimberly Research Center website are defined below:

P = Precipitation
ET= Evapotranspiration
P _d = Precipitation deficit
P _d =ET-P

USING THIS SPREADSHEET

Use the link below to access the Kimberly Research Center website. This website provides the Precipitation Deficit for a station most representative of the pond under examination. The Precipitation Deficit is the total amount of free water surface evaporation minus the precipitation for a given area, which gives the total amount of evaporative losses incurred by the pond. There are several weather sites that are used throughout the state. IDWR staff can find the nearest site using Arc Map. The shape file containing the sites can be found at [X:/Spatial/Climate/ETIdahostations.shp](#).

Instructions:

1. Use the link below to navigate to ET Idaho 2012.
2. Select the station which is most representative to your pond location.
3. Click Submit Query.
4. Under "Land Covers with Evapotranspiration Estimates," select "Open Water - Shallow Systems (ponds, streams)" or "Open Water - small stock ponds" depending on the pond size.
5. Click the link to "Precipitation Deficit."
6. Reference and copy (ctrl + C) the first subheading "Mean" values.
7. Click the "Paste Values from ET Idaho" button. The table will automatically enter a zero (0) for any

Found at: <http://data.kimberly.uidaho.edu/ETIdaho/>

Precipitation Deficit

Station:

Garden Valley NWS - 103448

Month	mm/day ¹	Days per month	mm/Month
Jan	-2.92	31	0.00
Feb	-1.50	28	0.00
March	-0.40	31	0.00
April	0.90	30	27.00
May	1.91	31	59.21
June	2.96	30	88.80
July	4.41	31	136.71
August	3.73	31	115.63
September	2.01	30	60.30
October	0.16	31	4.96
November	-2.40	30	0.00
December	-3.60	31	0.00

Total mm/year = 492.61

PLEASE NOTE: The seasonal average for precipitation deficit should not be used for calculations because precipitation often exceeds evaporation during wetter months of the year. If the pond is kept full, excess precipitation during wetter months does not serve to refill the pond during drier months.

For example, see Sandpoint KSPT (NWS - 108137), the annual precipitation deficit is -106 mm. However, April through September have positive precipitation deficit values. To properly estimate the annual volume of water necessary to refill a pond due to evaporation losses, the table will automatically enter a zero (0) for each month that the precipitation value is reported as a negative value.

As described above, precipitation offsets evaporation in winter months, so the net effect is that wintertime precipitation deficit is usually zero.

$[(\text{mm/yr}) + (\text{convert to feet})] \times (\text{Surface area of pond, in acres}) = \text{Evaporation Loss in Acre Feet}$

$$(492.61 \div 304.8) \times 0.25 = 0.4 \text{ AFA}$$

Total Storage Calculations

FILE NUMBER	65-23612
REVIEWER	Aaron Skinner
DATE	10/4/2016

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.)	0.25	"Surface Area" is automatically carried over from the "Seepage Loss" sheet.
Average Pond Depth (FT.)	2.6	"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)	0.65	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)	0.6	The "Estimated Seepage Loss" is automatically carried over from the "Seepage Loss" sheet.
Estimated Evaporation Loss (AF)	0.4	The "Estimated Evaporation Loss" is automatically carried over from the "Evaporation Loss" sheet.
Total Volume Required (AF)	1.7	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.

Flow Rate into Pond (CFS)	1.00	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)	4.41	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)	0.01	"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)	0.00	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	0	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	19	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.

10N04E23

Process	BasinSequence	Draft	Owner	Source	Use	NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE	TotalAcres
Water Right	65-10591	N	WALLACE, DONALD G; WALLACE, ELIZABETH	GROUND WATER	DOMESTIC				X													
Water Right	65-10624	N	ELLIS, ASTRID; ELLIS, LESLIE E; KELLER, ROBEI	GROUND WATER	DOMESTIC				X													
Water Right	65-10646	N	IRUSTA, ELIZABETH M; IRUSTA, GILBERT J	GROUND WATER	DOMESTIC			X														
Water Right	65-10731	N	AUSTIN, DAVID W; AUSTIN, UNDA S; SULLIVAN, J	GROUND WATER	DOMESTIC			X														
Water Right	65-10790	N	GUDEMAN, ERMA E	PAYETTE RIVER	IRRIGATION					1												1
Water Right	65-10824	N	BOHNER, WILLIAM M	GROUND WATER	DOMESTIC			X														
Water Right	65-10861	N	CASEY, CAROL A; CASEY, MERL J	SPRING	DOMESTIC								X									
Water Right	65-10861	N	CASEY, CAROL A; CASEY, MERL J	SPRING	IRRIGATION								8									8
Water Right	65-10861	N	CASEY, CAROL A; CASEY, MERL J	UNNAMED STREAM	DOMESTIC								X									
Water Right	65-10861	N	CASEY, CAROL A; CASEY, MERL J	UNNAMED STREAM	IRRIGATION								8									8
Water Right	65-10866	N	BRENNAN, GERALDINE; BRENNAN, JAMES E	GROUND WATER	DOMESTIC									X								
Water Right	65-11070	N	TEDESCO, AUGUST D; TEDESCO, MELANIE	PAYETTE RIVER	DOMESTIC				X													
Water Right	65-11127	N	BRIGGS, ARDIS M; BRIGGS, ROLLA E; HUGHE	UNNAMED STREAM	DOMESTIC																	
Water Right	65-11127	N	BRIGGS, ARDIS M; BRIGGS, ROLLA E; HUGHE	UNNAMED STREAM	STOCKWATER			X			X											
Water Right	65-11139	N	MEISSNER, BRANDEE; MEISSNER, SCOTT; ME	GROUND WATER	DOMESTIC									X								
Water Right	65-11140	N	MEISSNER, BRANDEE; MEISSNER, SCOTT; ME	PAYETTE RIVER	IRRIGATION									1								
Water Right	65-11213B	N	DOWN, ELDON, MC INALLY, ELIZABETH; MC	LIGHTNING CREEK	IRRIGATION	2																1
Water Right	65-11213C	N	DUNDAS, ROY B; SELLARS, DONALD R; SELLA	LIGHTNING CREEK	IRRIGATION	3																2
Water Right	65-11213C	N	DUNDAS, ROY B; SELLARS, DONALD R; SELLA	SPRINGS	IRRIGATION	3																3
Water Right	65-11213E	N	DUNDAS, ROY B; INNOVATIVE LAND MANAG	LIGHTNING CREEK	IRRIGATION	1				1.5												3
Water Right	65-11213F	N	DUNDAS, ROY B; RIVER PARK MEADOWS SUI	LIGHTNING CREEK	IRRIGATION	21				1.5												2.5
Water Right	65-11213J	N	DUNDAS, ROY B; INNOVATIVE LAND MANAG	LIGHTNING CREEK	IRRIGATION				1.3													22.5
Water Right	65-12047	N	HARRINGTON, DEBBIE S; HARRINGTON, JOH	UNNAMED STREAM	DOMESTIC			X														1.3
Water Right	65-12590	N	LOKKEN, DORIS M; LOKKEN, LE ROY	PAYETTE RIVER	IRRIGATION					1												
Water Right	65-12609	N	DARR, C LEE	PAYETTE RIVER	DOMESTIC			X														1
Water Right	65-12786	N	WALLACE, DONALD G; WALLACE, ELIZABETH	PAYETTE RIVER	IRRIGATION					0.5												
Water Right	65-12827	N	SELLARS, DONALD R; SELLARS, WYLIA LEE; T	SPRING	DOMESTIC	X																0.5
Water Right	65-12827	N	SELLARS, DONALD R; SELLARS, WYLIA LEE; T	SPRING	IRRIGATION	0.8																
Water Right	65-13321	N	HARRINGTON, DEBBIE S; HARRINGTON, JOH	UNNAMED STREAM	IRRIGATION			0.8			4.2											0.8
Water Right	65-13339	N	TODD, ALICE H; TODD, RICHARD W	PAYETTE RIVER	IRRIGATION					1												5
Water Right	65-13488	N	SCHOONOVER, GARY L	PAYETTE RIVER	IRRIGATION																	1
Water Right	65-13496	N	ALBRECHT, BOB L; ALBRECHT, SHELLY R; GR	PAYETTE RIVER	IRRIGATION									0.6								1
Water Right	65-13523	N	CORN, SCOTT A; CORN, STEPHANY; KELLER, I	GROUND WATER	DOMESTIC									X								0.6
Water Right	65-13524	N	CORN, SCOTT A; CORN, STEPHANY; KELLER, I	PAYETTE RIVER	IRRIGATION					0.2				0.6		0.2						
Water Right	65-13539	N	HALL, ELLEN J; HALL, HARRY V; HOSKING, C	PAYETTE RIVER	IRRIGATION									0.5								1
Water Right	65-13692	N	MC DONALD, HELEN L; MC DONALD, WAYNE	PAYETTE RIVER	IRRIGATION					1.5												0.5
Water Right	65-13734	N	ALLEN, BRIAN E; ALLEN, LISA M; BOYDSTUN	PAYETTE RIVER	IRRIGATION									1								1.5
Water Right	65-13743	N	BUNN, D A; PRINCE, DOROTHY; PRINCE, JAM	PAYETTE RIVER	DOMESTIC																	1
Water Right	65-13904	N	PASSIE, JAMES A	PAYETTE RIVER	IRRIGATION			0.5														
Water Right	65-13929	N	WALKER, DONALD E	PAYETTE RIVER	IRRIGATION																	0.5
Water Right	65-13942	N	GOUGH, JOHN E	PAYETTE RIVER	IRRIGATION																	2
Water Right	65-13957	N	ALBRECHT, BOB L; ALBRECHT, SHELLY R; GR	PAYETTE RIVER	IRRIGATION									0.7								0.5
Water Right	65-17299	N	FLORENCE, MICHAEL; FLORENCE, SHARON; C	GROUND WATER	DOMESTIC																	0.7
Water Right	65-18023	N	LONG, CLAIR E; LONG, FREDA	GROUND WATER	DOMESTIC				X													
Water Right	65-18051	N	BUNN, D A; PRINCE, DOROTHY; PRINCE, JAM	GROUND WATER	DOMESTIC			X														
Water Right	65-18088	N	LA PORTE, ANNE M; LA PORTE, FRANCIS M; I	GROUND WATER	DOMESTIC			X														
Water Right	65-18098	N	HARRINGTON, DEBBIE S; HARRINGTON, JOH	GROUND WATER	DOMESTIC			X														
Water Right	65-18122	N	JAGELS, JUDY; JAGELS, WAYNE; MARTIN, BA	GROUND WATER	DOMESTIC			X														
Water Right	65-18177	N	ROWLAND, ROBERT; ROWLAND, SHARON	GROUND WATER	DOMESTIC			X														
Water Right	65-18178	N	MC DONALD, HELEN; MC DONALD, WAYNE	GROUND WATER	DOMESTIC																	
Water Right	65-18184	N	RIFFLE, DAVID	GROUND WATER	DOMESTIC																	
Water Right	65-18188	N	MILLER, FRANK	GROUND WATER	DOMESTIC			X					X									
Water Right	65-18191	N	LOKKEN, DORIS; LOKKEN, LE ROY	GROUND WATER	DOMESTIC																	
Water Right	65-18196	N	TODD, ALICE H; TODD, RICHARD W	GROUND WATER	DOMESTIC				X													
Water Right	65-18234	N	BRIGGS, ARDIS M; BRIGGS, ROLLA E; HARRIN	GROUND WATER	DOMESTIC																	
Water Right	65-18239	N	BRADY, DANIEL J; BRADY, KATHLEEN M; TED	GROUND WATER	DOMESTIC					X												
Water Right	65-22307	N	RICHARD J ANDREWS FAMILY TRUST; WOOD	LIGHTNING CREEK	IRRIGATION																	
Water Right	65-22351	N	MC KENNA, RICHARD J	PAYETTE RIVER	IRRIGATION				2.6		1											3.6
Water Right	65-22665	N	HIGBY, DEANNA F; HIGBY, GLENN E; RICHAR	LIGHTNING CREEK	IRRIGATION																	2.2
Water Right	65-22691	N	BOBROWSKI, RENEE; DZIECZKOWSKI, JEFFRE	PAYETTE RIVER	IRRIGATION																	7.4
Water Right	65-22792	N	CHRISTENSEN, RICK; JONES, JENNIFER; RICH	LIGHTNING CREEK	IRRIGATION				0.4													0.4
Water Right	65-22792	N	CHRISTENSEN, RICK; JONES, JENNIFER; RICH	LIGHTNING CREEK	IRRIGATION					1.5												1.5

[illegible]

Overlap Analysis for WR Permit 65-23612 POD

TRS	Process	BasinSequence	Draft	Owner	Source	Use	NENE	NWNE	SWNE	SENE	NEWN	NWNW	SNRW	SENH	MESW	NWSW	SWSW	SESX	NESE	NWSE	SWSE	SESE
10M04E23	Water Rigt	65-10951	N	WALLACE, DONALD G; WALLACE, ELIZABETH	GROUND WATER				X													
10M04E23	Water Rigt	65-10624	N	ELLIS, ASTRID; ELLIS, LESLIE E; KELLER, ROBERTA N; KELLER, ROY W	GROUND WATER				X													
10M04E23	Water Rigt	65-10646	N	IRUSTA, ELIZABETH M; IRUSTA, GILBERT J	GROUND WATER				X													
10M04E23	Water Rigt	65-10731	N	AUSTIN, DAVID W; AUSTIN, LINDA S; SULLIVAN, FRANCIS E; SULLIVAN, MARIAN E	GROUND WATER				X													
10M04E23	Water Rigt	65-10790	N	GUDEMAN, ERMA E	PAYETTE RIVER					X												
10M04E23	Water Rigt	65-10824	N	BONNER, WILLIAM M	GROUND WATER				X													
10M04E23	Water Rigt	65-10866	N	BRENNAN, GERALDINE; BRENNAN, JAMES E	GROUND WATER										X							
10M04E23	Water Rigt	65-11070	N	TEDESCO, AUGUST D; TEDESCO, MELANIE	PAYETTE RIVER				X													
10M04E23	Water Rigt	65-11139	N	MEISSNER, BRANDEE; MEISSNER, SCOTT; MILLS, HARRY C; MILLS, WINIFRED I	GROUND WATER										X							
10M04E23	Water Rigt	65-11140	N	MEISSNER, BRANDEE; MEISSNER, SCOTT; MILLS, HARRY C; MILLS, WINIFRED I	PAYETTE RIVER										X							
10M04E23	Water Rigt	65-12590	N	LOKKEN, DORIS M; LOKKEN, LE ROY	PAYETTE RIVER					X												
10M04E23	Water Rigt	65-12609	N	DARR, C LEE	PAYETTE RIVER					X												
10M04E23	Water Rigt	65-12786	N	WALLACE, DONALD G; WALLACE, ELIZABETH	PAYETTE RIVER					X												
10M04E23	Water Rigt	65-12827	N	SELLARS, DONALD R; SELLARS, WYLIA LEE; TERRELL, DAVID J; TERRELL, DEBRA	SPRING	X																
10M04E23	Water Rigt	65-13321	N	HARRINGTON, DEBBIE S; HARRINGTON, JOHN F	UNNAMED STREAM				X			X										
10M04E23	Water Rigt	65-13339	N	TODD, ALICE M; TODD, RICHARD W	PAYETTE RIVER					X												
10M04E23	Water Rigt	65-13488	N	SCHOOVER, GARY I	PAYETTE RIVER											X						
10M04E23	Water Rigt	65-13496	N	ALBRECHT, BOB I; ALBRECHT, SHELLY R; GREENE, SUE E; GREENE, TERRY	PAYETTE RIVER										X							
10M04E23	Water Rigt	65-13523	N	CORN, SCOTT A; CORN, STEPHANY; KELLER, ROBERTA N; KELLER, ROY W	GROUND WATER										X							
10M04E23	Water Rigt	65-13524	N	CORN, SCOTT A; CORN, STEPHANY; KELLER, ROBERTA N; KELLER, ROY W	PAYETTE RIVER										X							
10M04E23	Water Rigt	65-13539	N	HALL, ELLEN J; HALL, HARRY V; HOSKING, CYNTHIA; HOSKING, D. TOM; PORTER, KATHRYN A; P	PAYETTE RIVER											X						
10M04E23	Water Rigt	65-13692	N	MC DONALD, HELEN L; MC DONALD, WAYNE E	PAYETTE RIVER					X												
10M04E23	Water Rigt	65-13734	N	ALLEN, BRIAN E; ALLEN, LISA M; BOYDSTUN, BARRY E; BOYDSTUN, NURALIMF	PAYETTE RIVER										X							
10M04E23	Water Rigt	65-13743	N	BUNN, D A; PRINCE, DOROTHY; PRINCE, JAMES C	PAYETTE RIVER				X													
10M04E23	Water Rigt	65-13904	N	PASSJE, JAMES A	PAYETTE RIVER				X													
10M04E23	Water Rigt	65-13929	N	WALKER, DONALD E	PAYETTE RIVER											X						
10M04E23	Water Rigt	65-13942	N	GOUGH, JOHN E	PAYETTE RIVER											X						
10M04E23	Water Rigt	65-13957	N	ALBRECHT, BOB I; ALBRECHT, SHELLY R; GREENE, SUE E; GREENE, TERRY	PAYETTE RIVER										X							
10M04E23	Water Rigt	65-17299	N	FLORENCE, MICHAEL; FLORENCE, SHARON; GOICOECHEA, JERRY J; GOICOECHEA, JUDITH E	GROUND WATER						X											
10M04E23	Water Rigt	65-18023	N	LONG, CLAIR E; LONG, FRED A	GROUND WATER					X												
10M04E23	Water Rigt	65-18051	N	BUNN, D A; PRINCE, DOROTHY; PRINCE, JAMES C	GROUND WATER					X												
10M04E23	Water Rigt	65-18088	N	LA PORTE, ANNE M; LA PORTE, FRANCIS M; LA PORTE, VICTOR FRANCOIS	GROUND WATER					X												
10M04E23	Water Rigt	65-18098	N	HARRINGTON, DEBBIE S; HARRINGTON, JOHN F	GROUND WATER					X												
10M04E23	Water Rigt	65-18122	N	JAGELS, JUDY; JAGELS, WAYNE; MARTIN, BARBARA JEAN	GROUND WATER					X												
10M04E23	Water Rigt	65-18177	N	ROWLAND, ROBERT; ROWLAND, SHARON	GROUND WATER					X												
10M04E23	Water Rigt	65-18178	N	MC DONALD, HELEN; MC DONALD, WAYNE E	GROUND WATER									X								
10M04E23	Water Rigt	65-18184	N	RIFFLE, DAVID	GROUND WATER						X											
10M04E23	Water Rigt	65-18188	N	MILLER, FRANK	GROUND WATER					X												
10M04E23	Water Rigt	65-18191	N	LOKKEN, DORIS; LOKKEN, LE ROY	GROUND WATER					X												
10M04E23	Water Rigt	65-18196	N	TODD, ALICE M; TODD, RICHARD W	GROUND WATER					X												
10M04E23	Water Rigt	65-18234	N	BRIGGS, ARDIS M; BRIGGS, ROLLA E; HARRINGTON, DEBBIE S; HARRINGTON, JOHN F	GROUND WATER						X											
10M04E23	Water Rigt	65-18239	N	BRADY, DANIEL J; BRADY, KATHLEEN M; TEDESCO, AUGUST D; TEDESCO, MELANIE	GROUND WATER					X												
10M04E23	Water Rigt	65-22351	N	MC KENNA, RICHARD J	PAYETTE RIVER										X							
10M04E23	Water Rigt	65-22691	N	BOBROWSKI, RENEE; DZIECZKOWSKI, JEFFREY; PERKINS, CHARLES; PERKINS, SHIRLEY	PAYETTE RIVER					X												
10M04E23	Water Rigt	65-22835	N	WOODS, EDWARD S; WOODS, JULIA E	PAYETTE RIVER					X												
10M04E23	Water Rigt	65-22881	N	HATTEN JR, HAROLD W	PAYETTE RIVER					X												
10M04E23	Water Rigt	65-22893	N	HART, ALAN D; HART, LINDA S; MC DONALD, HELEN L; MC DONALD, WAYNE E	PAYETTE RIVER					X												
10M04E23	Water Rigt	65-22895	N	HIGBY, DEANNA F; HIGBY, GLENN E	PAYETTE RIVER						X											
10M04E23	Water Rigt	65-22905	N	LAMMEY, DENNIS; LAMMEY, HELEN; MATHES, LESLIE; MATHES, STEPHEN	PAYETTE RIVER						X											
10M04E23	Water Rigt	65-23051	N	CLEVELAND, MICHAEL G; PETTIT, CYNTHIA	PAYETTE RIVER							X										
10M04E23	Water Rigt	65-23142	N	AMUNDSON, GLENDA; AMUNDSON, WALT; MC DONALD, HELEN; MC DONALD, WAYNE E	PAYETTE RIVER					X										X		
10M04E23	Water Rigt	65-23143	N	JAGELS, JUDY; JAGELS, WAYNE; MC DONALD, HELEN; MC DONALD, WAYNE E	PAYETTE RIVER					X												
10M04E23	Water Rigt	65-23210	N	AUSTIN, DAVID W; AUSTIN, LINDA S; HAYMOND, HILLARY; SULLIVAN, FRANCIS E; SULLIVAN, M	PAYETTE RIVER					X												
10M04E23	Water Rigt	65-23211	N	AUSTIN, DAVID W; AUSTIN, LINDA S; SHIRLEY, KELLY; SHIRLEY, PAUL; SULLIVAN, FRANCIS E; S	PAYETTE RIVER					X												
10M04E23	Water Rigt	65-23291	N	BRIGGS, ARDIS M; BRIGGS, ROLLA E; HARRINGTON, DEBBIE S; HARRINGTON, JOHN F	PAYETTE RIVER					X												
10M04E23	Water Rigt	65-23325	N	BRIGGS, ARDIS M; BRIGGS, ROLLA E; HUGHES, KELLY EVAN	PAYETTE RIVER					X												
10M04E23	Water Rigt	65-23326	N	BRIGGS, ARDIS M; BRIGGS, ROLLA E; FOOTE, AUBREY; FOOTE, JOHN; HUGHES, KELLY EVAN	PAYETTE RIVER					X												
10M04E23	Water Rigt	65-23469	N	ALLEN, JANE C; ALLEN, THOMAS H; HIRSCH JR, HARRY JAMES; HIRSCH, JENNIFER ANN; MEISSN	PAYETTE RIVER						X											
10M04E23	Water Rigt	65-23470	N	ALLEN, JANE C; ALLEN, THOMAS H; HIRSCH JR, HARRY JAMES; HIRSCH, JENNIFER ANN; MEISSN	PAYETTE RIVER						X											
10M04E23	Water Rigt	65-23533	N	PUETT, GORD; PUETT, JAMES	GROUND WATER					X												
10M04E23	Water Rigt	65-23612	Y	SHORTS, BEN L; SHORTS, DEBRA A	UNNAMED STREAM											X						
10M04E23	Water Rigt	65-32278	N	MEISSNER, BRANDEE; MEISSNER, SCOTT; MILLS, HARRY C; MILLS, WINIFRED I	PAYETTE RIVER						X											
10M04E23	Water Rigt	65-3227X	N	FLORENCE, MICHAEL; FLORENCE, SHARON; GOICOECHEA, CARL; GOICOECHEA, JERRY J; GOICO	PAYETTE RIVER											X						
10M04E23	Water Rigt	65-5714	N	FLORENCE, MICHAEL; FLORENCE, SHARON; GOICOECHEA, CARL W; GOICOECHEA, JERRY J; GOK	PAYETTE RIVER												X					
10M04E23	Water Rigt	65-5973	N	NAU, JESSIE; NAU, WALTER E	GROUND WATER					X												
10M04E23	Water Rigt	65-7280	N	NAU, JESSIE; NAU, WALTER E	SPRING					X												

10N04E23 Water Rgt 65-7372	N ELLIS, ASTRID; ELLIS, LESLIE E; KELLER, ROBERTA N; KELLER, ROY V	PAYETTE RIVER			X	
10N04E23 Water Rgt 65-7572	N DRAPER, JAMES L; JAMES L & DOROTHY A GIBSON TRUST	GROUND WATER	X			
10N04E23 Water Rgt 65-7720	N DRAPER, JAMES L; JAMES L & DOROTHY A GIBSON TRUST	PAYETTE RIVER	X			
10N04E23 Water Rgt 65-7729	N HANSEN, WILBUR A; KITTS, DONALD H; KITTS, JEANETTE RAE; MC DONALD, HELEN; MC DONALD	PAYETTE RIVER	X			
10N04E23 Water Rgt 65-7913	N WALLACE, DONALD G; WALLACE, ELIZABETH	PAYETTE RIVER			X	
10N04E23 Water Rgt 65-7963	N MILLER, FRANK; NEFF, LARRY G; WARD, EDWARD S	PAYETTE RIVER	X			
10N04E23 Water Rgt 65-7981	N BRENNAN, GERALDINE; BRENNAN, JAMES E	PAYETTE RIVER				X
10N04E23 Water Rgt 65-8286	N PINE TREE RANCH INC	GROUND WATER				
10N04E23 Water Rgt 65-9671	N HANSEN, WILBUR A; KITTS, DONALD H; KITTS, JEANETTE R	GROUND WATER	X			X
10N04E23 Water Rgt 65-9716	N LA PORTE, ANNE M; LA PORTE, FRANCIS M; LA PORTE, VICTOR FRANCIS	PAYETTE RIVER	X			



Pond located northeast of the house. Surface area for the pond is 0.25 acres and has a maximum depth of 6.5 feet.



Horses along the fence line showing beneficial use of stockwater.



The owner drove 8' posts into the ground and attached 4' post on top of them shown here.



This area the POD. Water super saturates the ground here and then filters into the pond. The tall grass by the image date is the pond edge.



Corrugated pipe
along Middlefork
Road that delivers
water to the
unnamed stream.