

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 96-10775
Exam Date: 04/18/2024

1. Current Owner:
DANYA HEATON 6138 UPPER PACK RIVER RD SANDPOINT ID 83864-6003
2. Accompanied by: Danya Heaton
Phone No: 208-255-4352
Address: Same as above
Relationship to permit Holder: Permit Holder

3. **SOURCE:**
SPRING

Tributary
SINKS

Method of Determination: ArcMap and DRG layer.

B. OVERLAP REVIEW

1. Other water rights with the same place of use: NO Overlap
2. Other water rights with the same point-of-diversion: NO Overlap

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

SPRING SE¼ NW¼ NE¼, Sec. 10, Twp 59N, Rge 02W, B.M. BONNER County

Method of Determination: GPS. The POD is located at -116°34.5674, 48°28.9950

PLACE OF USE: DOMESTIC

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
59N	02W	10	X																

Method of Determination: Beneficial use field examination, ArcMap aerial imagery, and Bonner County tax parcel GIS maps.

3.

X Delivery System Diagram Attached (required). Indicate all major components and distances between components.
Indicate weir size/pipe as applicable.

X Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be
1:24,000 or greater.

X 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
SPRING		N/A	GRAVITY FLOW SYSTEM		

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
5-GAL BUCKET MEASUREMENT						

2. Measurements: Three 5-gallon bucket tests were completed from the spring's intake PVC pipe to 'blue barrel' container with average of three resulting in a diversion rate of 5 gal / 18.84 sec x 60 sec/min = 16.18 gpm = **0.04 cfs**, considering department rounding standards.

E. FLOW CALCULATIONS

Measured Method: 5-GAL Bucket Test = (5 gal / 18.12 sec) x 60 sec/min = 16.57 gpm
 = (5 gal / 18.93 sec) x 60 sec/min = 15.85 gpm
 = (5 gal / 19.47 sec) x 60 sec/min = 15.41 gpm

Average of 3ea 5-GAL Bucket Tests = (16.57 gpm + 15.85 gpm + 15.41 gpm) / 3 = 15.94 gpm = 0.04 cfs considering department rounding standards.

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation: N/A

2. Volume Calculations for Other Uses: Domestic diversion rate for 1 home with up to ½ ac irrigation included = **1.2 af**.

G. NARRATIVE/REMARKS/COMMENTS

Field exam performed on 4/18/2024 with the applicant, Danya Heaton, showed a spring source being diverted for domestic purposes. At the POD, a short length of PVC pipe collects spring water as it daylights from within a cedar tree root ball. Spring water enters a blue ½ barrel serving as a spring-box containment which includes a 3/4-inch poly-pipe conveyance system routing down the ridge to the primary residence on the property. I performed 5-gal bucket measurements that derived a diversion rate of **0.04 cfs** considering department rounding standards which I've recommended as the maximum diversion rate for licensing purposes.

The spring source where it daylights produced more than 18 gpm but only the average of 16.18 gpm was being diverted by the applicant; the rest of the spring flow continued overland down grade co-mingling with other surface runoff veins that were visible during the peak runoff period occurring at the time of exam. The applicant asserts that the spring capacity reduces in late summer but flows normally all winter and spring as observed at time of exam. The gravity flow poly pipe conveyance system inflows to a concrete ring storage reservoir prior to distribution using a Drummond 1 hp pump and pressure pot unit to transfer water for domestic uses.

I walked the domestic POU with the applicant and used field maps to sketch the location of the pipeline which routes overground for the majority of the downhill run before being buried where it crosses the main driveway and routes to the storage reservoir. Water pumped from the reservoir is used for a small residence and minor lawn irrigation around the home. At the time of exam, the lawn was still encased in snow, and active watering was not taking place for the lawn irrigation. The domestic annual volume equals **1.2 af** which includes up to ½ ac irrigation covered by domestic use for licensing purposes. I used ArcMap aerial imagery during licensing review to assign the POD & POU shapes for map products.

I've carried all conditions from the Permit forward to licensing. The POD is located on a neighbor's property and a verbal

agreement is in place between property owners for POD access. Condition 004 is being retained for licensing which describes that this right doesn't grant right-of-way or easement across land of another. I recommend the applicant secure a more formal and recorded access agreement to protect interests in the water right, but the current verbal agreement is sufficient for IDWR to recommend the permit for licensing. There are no overlapping water right concerns toward licensing this Permit.

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

H. RECOMMENDATIONS

1. Recommended Amounts

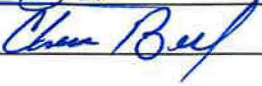
<u>Beneficial Use</u>	<u>Period of Use</u>	<u>Rate of Diversion</u>	<u>Annual Volume</u>
DOMESTIC	01/01 to 12/31	0.04 CFS	1.2 AF
<u>Totals:</u>		0.04 CFS	1.2 AF

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

Luke Bates – Sr Water Resource Agent

Field Examiner's Name  Date 5/6/2024
Reviewer  Date 2/18/2025

State of Idaho
Department of Water Resources
Attachment to Field Exam
96-10775

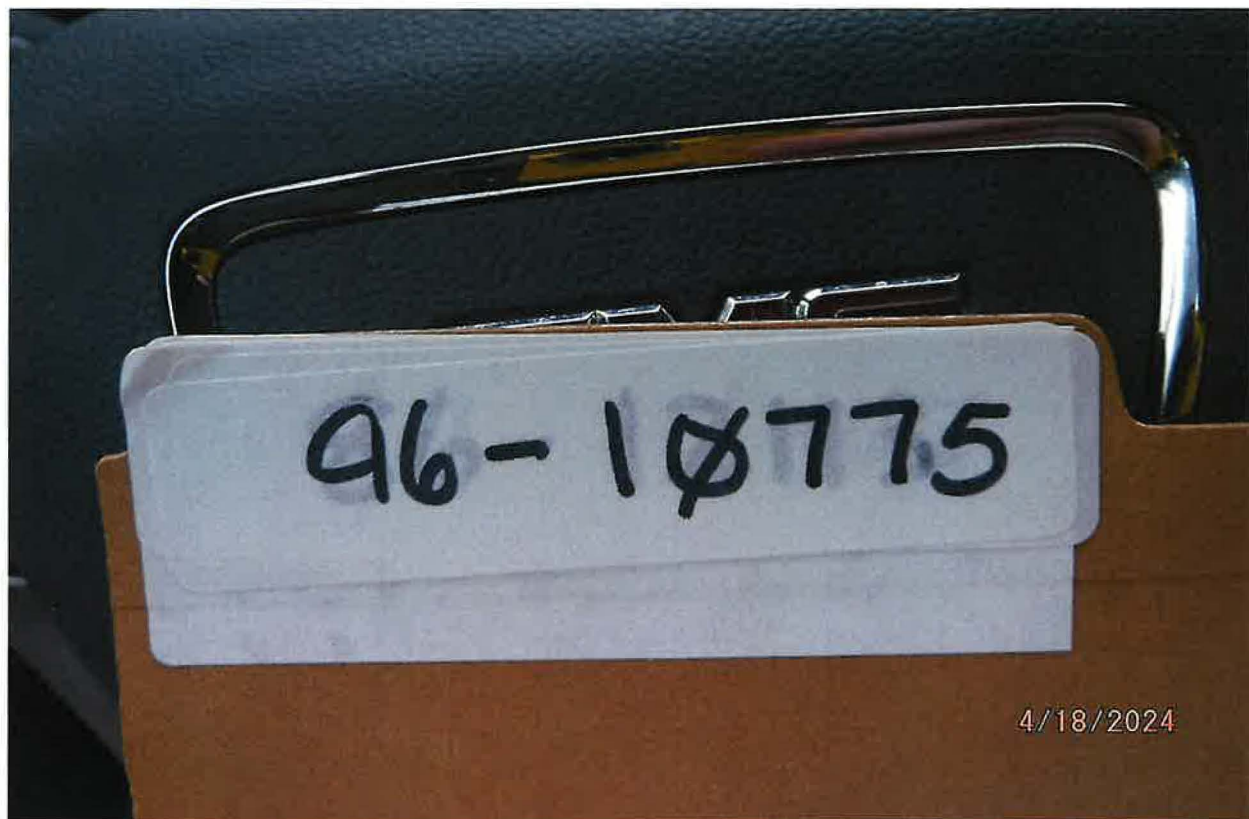
This map depicts the DOMESTIC system diagram.



0 0.035 0.07 0.14 Miles

-  Place Of Use Boundary
-  Townships
-  PLS Sections
-  Quarter Quarters
-  Point of Diversion





BENEFICIAL USE FIELD EXAM DATE 4/18/2024



POD – SPRING WITH PVC PIPE TO CONTAINMENT DEVICE



POD – SPRING COLLECTION POINT ROUTES TO $\frac{3}{4}$ " POLY PIPE RUNNING DOWN SLOPE TO STORAGE TANK PRIOR TO WATER USE FOR DOMESTIC PURPOSES.



$\frac{3}{4}$ " POLY PIPE GRAVITY FLOW SPRING WATER FROM POD TO STORAGE RESERVOIR AT BASE OF HILLSIDE



CONCRETE RING STORAGE RESERVOIR – UNKNOWN VOLUME OF RESERVOIR



DRUMMOND 1 HP STAINLESS STEEL SHALLOW WELL PUMP AND TANK WITH PRESSURE CONTROL SWITCH – 950 GPH (15.8 GPM) PUMP CAPACITY

96-10775

DRUMMOND 1 HP Stainless Steel Shallow Well Pump and Tank with Pressure Control Switch - 950 GPH

♥ Add to List

★★★★★ (1532) [Shop All DRUMMOND](#)



Specifications

SKU(s)	63407, 56395	Flow Rate	950 GPH
Brand	DRUMMOND	AC Volts	120
Head Lift at 0 Flow	115.5 ft.	Outlet Fitting Size	1 in.
Accessories Included	5 gallon pressure tank	Amperage	10
Certification	ETL, UL	Container Size	5 gal.
Horsepower	1	Maximum Pressure (PSI)	50 PSI
Speed (max)	3600 RPM	Minimum Pressure (PSI)	30 PSI
Product Height	23 in.	Product Length	18-1/2 in.
Product Weight	32 lb.	Product Width	11 in.
Shipping Weight	35.65 lb.	Power Cord (ft.)	6 ft.
Returns Disclaimer	Yes		

Note. Specifications are approximate and subject to change



DOMESTIC POU – 1 HOME WITH SMALL LAWN IRRIGATION IN SUMMER MONTHS BY HOSE & SPRINKLER