

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 95-18310

Exam Date: 5/19/2022

1. Current Owner:
DON INGERSOLL 211 STRIFE LN PLUMMER ID 83851-5001 AND/OR
MARY INGERSOLL 211 STRIFE LN PLUMMER ID 83851-5001
2. Accompanied by: Don & Mary Ingersoll
Phone No: 775-771-1523
Address: Same as above
Relationship to permit Holder: Permit holders

3. **SOURCE:**
SPRING

Tributary
LITTLE PLUMMER CREEK

Method of Determination: Arcmap and DRG.

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 SYSTEM

1. **LOCATION OF POINT(S) OF DIVERSION:**
SPRING SE¼ NW¼ SE¼, Sec. 33, Twp 46N, Rge 04W, B.M. BENEWAH County

Method of Determination: GPS. POD is located at -116°50.364, 47°17.042

PLACE OF USE: STOCKWATER

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
46N	04W	33														X			

Method of Determination: beneficial use field examination & Arcmap aerial imagery.

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.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
NONE					

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
NONE						

2. Measurements: Unable to perform a flow measurement due to spring water filling directly into and shallow earthen bowl-shaped area.

E. FLOW CALCULATIONS

Measured Method: Recommended diversion rate equal to stockwater instream flow rate = **0.02 cfs**.

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation: N/A

2. Volume Calculations for Other Uses: Stockwater annual volume = 75 head cattle x 12 gpd x 365 day = 3,285,000 gal per year / 325,850 gal per af = 1.0 af considering department rounding standards.

PARENT RIGHT 95-15010 & SPLIT RIGHT(S) RECOMMENDED DIVERSION RATE/VOLUME DATA					
Permit 95-15010 approved value(s)		WR 95-15010 License Recommended Value	WR 95-18309 License Recommended Value	WR 95-18310 License Recommended Value	Enlarged (Y/N)
Diversion to Storage	0.20 cfs	diversion to storage beneficial use not developed, instream ponds only; removed from permit during licensing review - L.Bates			N/A
Irrigation	0.15 cfs	irrigation direct flow beneficial use not developed; removed from permit during licensing review - L.Bates			N/A
Irrigation Storage	22.5 af	13.8 af	-	-	N
Irrigation from Storage	15.0 af	13.8 af	-	-	N
Stockwater	0.03 cfs	-	-	0.02 cfs / 1.0 af	N
Stockwater Storage	9.2 af	1.0 af	1.0 af	-	N
Stockwater from Storage	1.0 af	stockwater from storage beneficial use not developed; removed from permit during licensing review - L.Bates			N/A
Fire Protection Storage	8.2 af	3.3 af	0.5 af	-	N
Recreation Storage	8.2 af	3.3 af	0.5 af	-	N
Wildlife Storage	8.2 af	3.3 af	0.5 af	-	N
MAXIMUM DIVERSION RATE / VOLUME		18.1 af	1.5 af	0.02 cfs / 1.0 af	

G. NARRATIVE/REMARKS/COMMENTS

Admin Note: this right was split from Permit 95-15010 due to 3ea validated spring source(s) being independent with water flow from each not co-mingling in a common water system. This right accounts for the stockwater direct flow beneficial use.

An initial field exam was performed by department staff on 8/19/2016 but inadequate data was collected to finalize the Permit for licensing purposes. A follow-up exam was conducted on 5/19/2022 with the applicant(s), Don & Mary Ingersoll, which showed water from a spring source being used for stockwater purposes. At the POD, spring water flows naturally into a shallow micro-basin carved out from years of stock use. The Permit authorized a stockwater diversion rate of 0.03 cfs associated with 75 head of cattle. Due to the natural flow of spring water filling the small 24 hr impoundment area, a diversion rate of **0.02 cfs** is recommended for licensing purposes. The diversion rate of 0.02 cfs produces less than 13,000 gal per day which meets the stockwater component of domestic use and is not in excess of 13,000 gallons per day.

During the exam photographs of the stockwater POU were taken that include a small concave shaped area located directly at the spring source. Over time & use cattle/horses have carved out the collection basin that captures spring water. Arcmap aerial imagery was used to draw the POU shape which includes the spring source in its boundary. During the exam water was observed bubbling to the surface, and the applicants stated that it was consistent flow year-round. Due to surface runoff and sediment load over time wetland type grasses grow up annually which can be seen in the photographs. Once the cattle are cycled into the pasture this spring & POU reside in, the grasses are either eaten or trampled out re-creating the small impoundment area. The annual volume for stockwater equals 75 head cattle x 12 gpd x 365 day = 3,285,000 gal per year / 325,850 gal per af = **1.0 af** considering department rounding standards.

Referencing the table above, out of the three WRs 95-18310 is the only right that includes stockwater direct flow as a beneficial use recommended for licensing. There are no concerns for enlargement by diversion rate for licensing any of the three associated water rights. As a split right, all conditions except for X02 & 004 are not applicable to WR 95-18310. Condition X02 was removed during licensing review. Condition 111 was added to describe that stockwater drink directly from the spring source without a diversion system in place. Condition X35 was added describing combined stockwater storage use between rights 95-15010, 95-18309, & 95-18310 for 75 head of cattle. Condition 004 was carried forward to licensing. Aside from stockwater combined use there are no concerns for overlap with this water right.

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>Rate of Diversion</u>	<u>Annual Volume</u>
STOCKWATER	01/01 to 12/31	0.02 CFS	1.0 AF
<u>Totals:</u>		0.02 CFS	1.0 AF

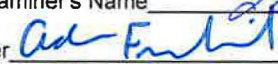
2. Recommended Amendments

☐ 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 -

Field Examiner's Name  Date 6/16/2022

Reviewer  Date 7/21/2022

State of Idaho
Department of Water Resources
Attachment to Water Right License
95-18310

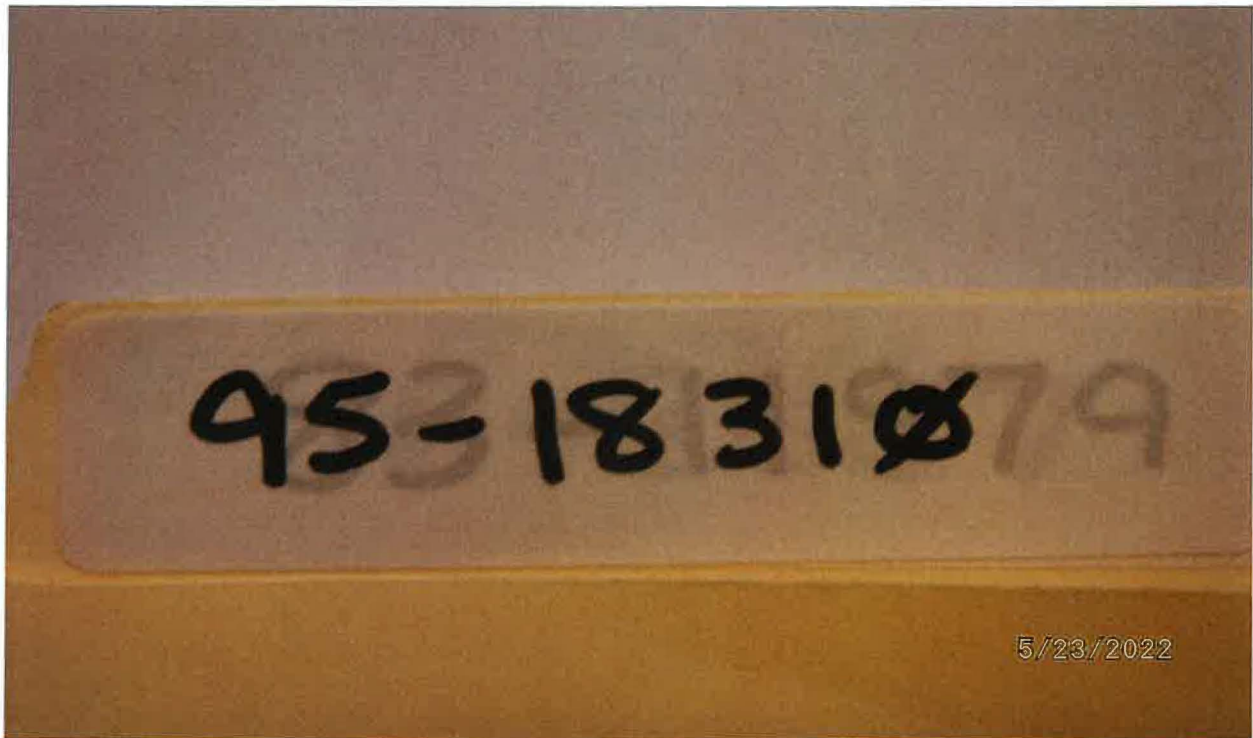
STOCKWATER system diagram.



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

0 0.025 0.05 0.1 Miles





INITIAL FIELD EXAM DATE 8/19/2016; FOLLOW-UP SITE VISIT 5/19/2022; SPLIT FROM 95-15010



POD – SPRING – CATTLE DRINK DIRECTLY FROM MARSHY SPRING FIELD

POU – STOCKWATER



STOCKWATER LOCATED ON PROPERTY THAT UTILIZE SPRING SOURCE

