

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 96-9816

Exam Date: 07/09/2020

1. Current Owner:
JIM SCHAPER PO BOX 216 LACLEDE ID 83841 AND/OR
MARLANE SCHAPER PO BOX 216 LACLEDE ID 83841

2. Accompanied by: Jim Schaper
Phone No: 208-263-6800
Address: Same as above
Relationship to permit Holder: Permit Holder

3. **SOURCE:**
SPRING

Tributary
SINKS

Method of Determination: Arcmap and DRG

B. OVERLAP REVIEW

1. Other water rights with the same place of use: YES Overlap

Water Right No.	Source	Purpose of Use	Basis
96-9700	RILEY CREEK	IRRIGATION AND STOCKWATER	PERMIT IN PROCESS FOR LICENSE

Comments: right 96-9700 is a permit for same applicant that was split from this right 96-9816, for irrigation and stockwater use, in the same POU. Rights were split as they had separate water sources.

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

Water Right No.	Source	Purpose of Use	Basis

Comments: _____

C. DIVERSION AND DELIVERY SYSTEM

1. **LOCATION OF POINT(S) OF DIVERSION:**

SPRING NW¼ SE¼ NE¼, Sec. 12, Twp 56N, Rge 04W, B.M. BONNER County

Method of Determination:

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	
56N	04W	12	X			X													

Method of Determination: GPS. POD located at -116°46.146, 48°13.179

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
SPRING					

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
4-CUP MEASURING TEST						

2. Measurements: A 4 CUP measurement test was completed from storm pipe exit from spring box, with the resulting diversion flow rate of 4 cups in 15.31 seconds.

E. FLOW CALCULATIONS

Measured Method: 4 CUP measurement = 4 cups per 15.31 seconds = 16 cups per 61.24 seconds = 1 gal per 122.48 seconds = 5 gallons per 612.40 seconds. Converted to 5 gal bucket test metrics = 5 gal / 612.40 seconds x 60 seconds = 0.49 gal per minute. 0.49 gpm is less than the minimum value for 0.01 cfs, resulting **0.01 cfs** defaults to the diversion rate.

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation: N/A

$$V_{I.R} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$$

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

$$V = \text{Smaller of } V_{I.R} \text{ and } V_{D.R} =$$

2. Volume Calculations for Other Uses:

STOCKWATER annual volume = 50 head cattle x 12 gpd x 365 days = 219,000 gal / 325,850 gal per af = **0.7 af** considering department rounding standards.

G. NARRATIVE/REMARKS/COMMENTS

Admin Note: WR 96-9816 has been split from WR 96-9700, as the spring source for this right is separate from 96-9700's source and not interconnected.

Field exam conducted on 7/20/2020 with applicant, Jim Schaper, showed diversion from a spring to a stock tank. The diverting flow was minimal, but constant, and applicant stated it ran all year at the same approximate flow. As a 5-gal bucket test was not feasible, a 4 cup measuring test was completed to determine a flow rate equal to 4 cups per 15.31 seconds = 16 cups per 61.24 seconds = 1 gal per 122.48 seconds = 5 gallons per 612.40 seconds. Converted to 5 gal bucket test metrics = 5 gal / 612.40 seconds x 60 seconds = 0.49 gal per minute. 0.49 gpm is less than the minimum value for 0.01 cfs, resulting **0.01 cfs** defaults to the diversion rate applied to license.

Applicant was permitted for stockwater use for 50 head of mixed stock, equaling 50 head cattle x 12 gpd x 365 days = 219,000 gal / 325,850 gal per af = **0.7 af** considering department rounding standards, which will be applied to license as the maximum diversion volume. The 50 head of stock associated with this right is the same 50 head associated with rights 96-9700 & 96-9701, and thus not additive in annual volume from license to license; condition X35 was applied to rights 96-9700, 96-9701, and 96-9816 to account for the same 50 head of cattle applicant is allocating water for. Applicant used spring water to fill portable stockwater tanks, and rotated stock into this area of his property after the first hay cutting is complete each year. Due to wetness of season, the first cut had not been harvested, and as such no cattle were observed during time of exam. Applicant stated that this source of stockwater use supplemented exempt in-stream stock watering that took place throughout his properties.

Condition X01 remained on license. Condition X35 was added to describe limitations for combined stockwater annual volume for rights 96-9700, 96-9701, and 96-9816. Condition X02 was removed from permit at time of licensing. Condition 004 remains on license to describe right of way easement restrictions. As a split water right, all other conditions were excluded from this right that pertained to right 96-9700. Split right 96-9700 overlaps this rights POU for stockwater use, and condition X35 (listed above) was added to mitigate overlap concerns for right 96-9816. There are no other overlap concerns for this right.

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>
STOCKWATER	01/01 to 12/31	0.01 CFS	0.7 AF

Totals: 0.01 CFS 0.7 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 - Water Resource Agent

Field Examiner's Name  Date 7/27/2020
 Reviewer  Date 7/30/2020

State of Idaho
Department of Water Resources
Attachment to Water Right License
96-9816

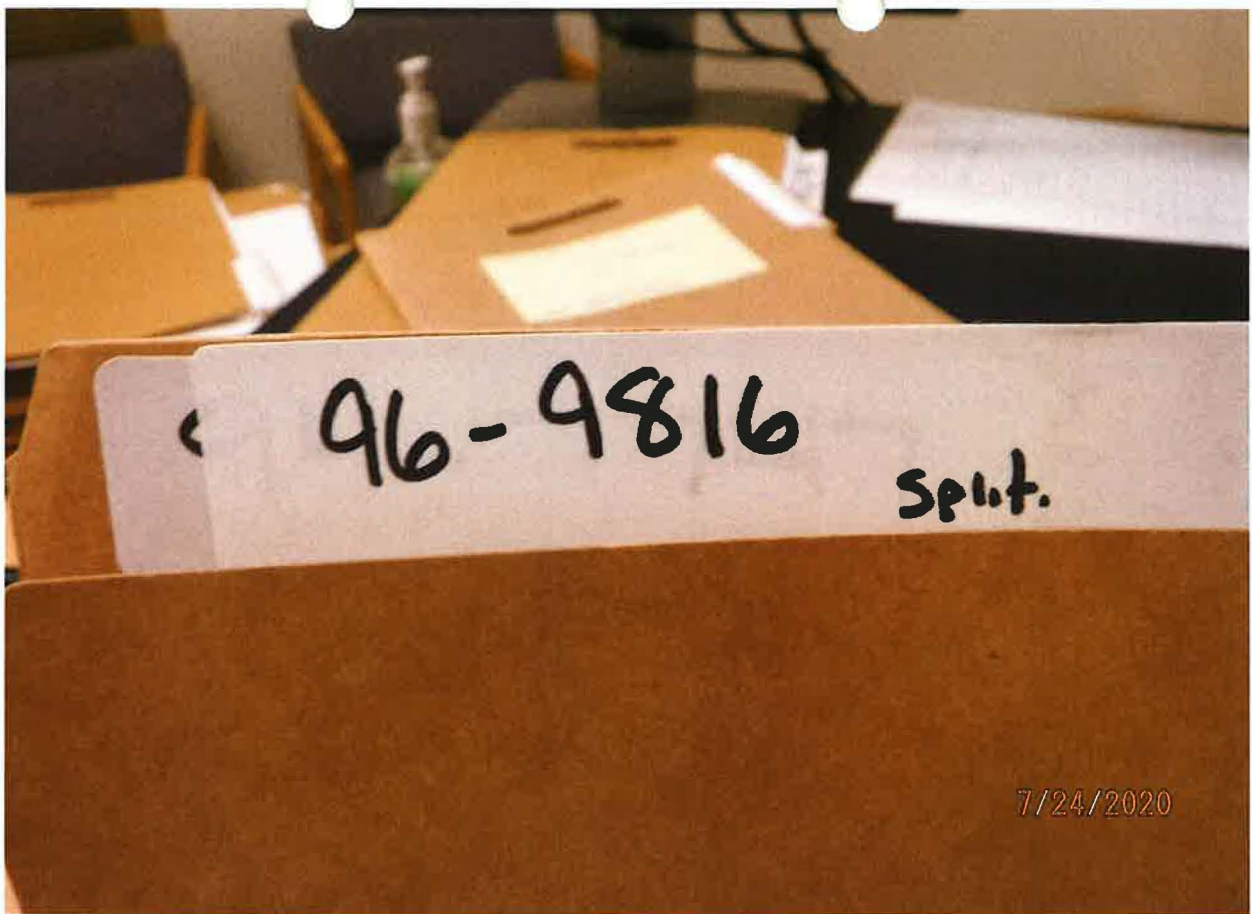
STOCKWATER system diagram.



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

0 0.035 0.07 0.14 Miles





POD - SPRING



STOCK TANKS AT POU

