

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 81-12010
Exam Date: 06/15/2021

1. Current Owner:
JUDY FREILINGER 656 RED FIR RD KOOSKIA ID 83539-5149 AND/OR
LEE DAUGHERTY 656 RED FIR RD KOOSKIA ID 83539-5149
2. Accompanied by: Judy Feilinger
Phone No: 208-926-77303
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: 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 SW¼ NE¼ SE¼, Sec. 22, Twp 32N, Rge 05E, B.M. IDAHO County

Method of Determination: GPS. POD is a buried storage tank with pipe to stock tank located at -115°48.7358, 46°05.7240.

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	
32N	05E	22													X				

Method of Determination: Field exam and 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
4 CUP MEASUREMENT						

2. Measurements: A 4 CUP flow measurement was completed from a PVC pipe filling a stock tank from the spring's cistern, with the resulting flow rate of 4 cups in 44.78 seconds.

E. FLOW CALCULATIONS

Measured Method: 4 CUP measurement = 4 cups per 44.78 seconds = 16 cups per 179.12 seconds = 1 gal per approximate 3 minutes = less than 0.5 gal per minute which is less than the minimum value for 0.01 cfs. The resulting **0.01 cfs** defaults to the diversion rate for licensing purposes.

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation: N/A

2. Volume Calculations for Other Uses: Stockwater annual volume = 70 head cattle x 12 GPD x 365-days = 306,600 gal per year / 325,850 gal per af = **0.9 af** considering department rounding standards.

G. NARRATIVE/REMARKS/COMMENTS

Field exam performed on 6/15/2021 with the applicant, Judy Freiling, showed a developed spring source providing water for stockwater use. At the POD, the applicants developed a spring field with a liner and rock fill to channel water to a semi buried white storage tank. Water from the tank overflowed into a small PVC pipe which filled a stock tank co-located with the buried tank. A 4 CUP flow measurement was completed from a PVC pipe filling the stock tank, with the resulting flow rate of 4 cups in 44.78 seconds which is less than the lowest department standard diversion rate. As a result, **0.01 cfs** is recommended as the maximum diversion rate for licensing purposes.

During the exam the irrigation beneficial use component was discussed with the applicant, who asserts there was not enough water in the system to develop the irrigation portion of the permit. The irrigation component was removed from the permit during licensing review. The removal of the irrigation component greatly reduces the maximum diversion rate for licensing purposes, but the applicant is limited by how the spring system was developed.

The stockwater beneficial use was observed as the stock tank co-located with the spring field and storage tank. During the development of the spring source, tailing dirt was moved down-grade and deposited in a way that caused a small depression. Over time, overflow water from the stock tank along with surface runoff cause the small depression to capture water and act as a micro pond. The pond is only 20 feet by 10 feet and at time of exam estimated to be 1 foot in depth. The applicant stated the depression area was used by cows throughout the year and has silted in over the last year or two. Due

to the small size and holding capacity of the small impoundment, I am recommending it serve as a 24 hr impoundment vessel for stockwater use by the applicant from the spring source. It is likely the small pond will be silted in within the next few years and negligible will be held prior to sinking naturally.

The stockwater POU was traced out using Arcmap aerial imagery to reflect the area immediately surrounding the stock tank and small 24 hr impoundment pond. The applicant's do not transport water to other areas for stock use, and cattle that are pastured throughout the summer migrate daily for water at the spring source. The annual volume associated with stockwater use equals 70 head cattle x 12 GPD x 365 day per year = 306,600 gal per year / 325,850 gal per acre-foot = 0.9 af considering department rounding standards which is recommended as the maximum diversion volume for licensing purposes.

Conditions 26A, X02, and R66 were removed from the permit during licensing review. Condition 197 was added due to this water right residing in a Wild & Scenic (W&S) water basin. The verbiage of condition 197 are not required to license this permit, rather designate the potential for future management requirements by the department if implemented for the W&S basin. Condition 004 shall be carried forward to the license. There are no overlap concerns for this water right. The diversion of spring water on the applicant's property are within the Wild & Scenic boundaries; referencing IDWR Administrator's Memorandum (Wild & Scenic Agreement Memo) Pg 2, all sources within the surface water drainages of the Middle Fork Clearwater River are considered hydraulically connected. As such, this water right has been entered into the Wild & Scenic database. The spring source sinks on the applicant's property after stockwater use, and as such does not flow into the Middle Fork Clearwater and does not serve as a tributary to the Middle Fork Clearwater River. None of the conditions for approval typically applied to Wild & Scenic water uses are applied to this permit when recommending for licensing purposes.

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	0.01 CFS	0.9 AF
<u>Totals:</u>		0.01 CFS	0.9 AF

2. Recommended Amendments

Change P.D. as reflected above Add P.D. as reflected above X None
 Change P.U. as reflected above Add P.U. as reflected above X None

I. AUTHENTICATION Luke Bates - Water Resource Agent

Field Examiner's Name [Signature] Date 11/2/2021
 Reviewer [Signature] Date 11/2/2021

State of Idaho
Department of Water Resources
Attachment to Field Exam
81-12010

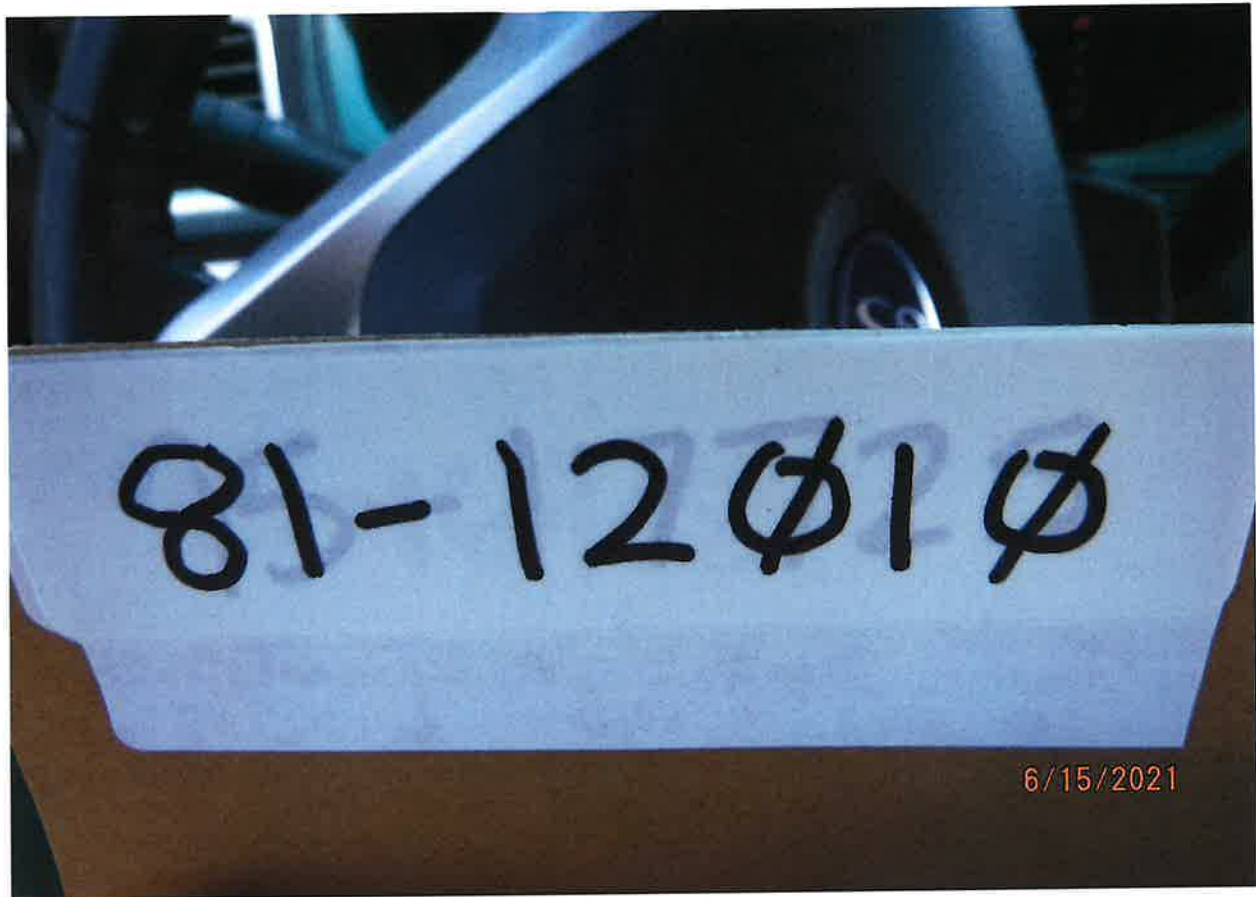
STOCKWATER system diagram.



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

0 0.035 0.07 0.14 Miles





FIELD EXAM DATE 6/15/2021



POD – BURIED SPRING WITH ROCK CHANNELS DEVELOPED TO DIVERT WATER TO TANK



600 GALLON STORAGE TANK CAPTURES SPRING FLOW & ROUTES TO TROUGH



4 CUP MEASURING DEVICE USED TO CAPTURE FLOW MEASUREMENT FROM TANK OVERFLOW PIPE



STOCKWATER POU



STOCKWATER POU - SHALLOW 24HR IMPOUNDMENT STORAGE POND