

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 85-15789
Exam Date: 06/16/2021

1. Current Owner:
T LINDSLEY FARMS LLC 327 N MEADOW ST GRANGEVILLE ID 83530-1819
2. Accompanied by: Jeff Workman
Phone No: 208-983-7147
Address: Unknown
Relationship to permit Holder: Permit holder's ranch hand & designated representative.

3. **SOURCE:**
SPRING

Tributary
BUTCHER CREEK

Method of Determination: Arcmap, DRG, and Field Exam.

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 SW $\frac{1}{4}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$, Sec. 35, Twp 31N, Rge 03E, B.M. IDAHO County

Method of Determination: GPS. POD is a tiled spring & pipe located at -116°2.6706, 45°58.5724.

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	
31N	03E	35															X		

Method of Determination: Field exam and Arcmap aerial imagery.

3. Delivery System Diagram Attached (required). Indicate all major components and distances between components.
X 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 BOX TO PIPE		N/A			

D. FLOW MEASUREMENTS

1.

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

2. Measurements: Unable to perform flow measurement due to leak in applicant's water source delivery pipe excessively reducing output flow from pipe. A steady trickle from the metal pipe to a stock tank will produce less than 0.01 cfs; based on the stockwater beneficial use for 75 head of cattle, the diversion rate of **0.02 cfs** is recommended to license this water right which is limited by the permit approved maximum diversion rate equaling 0.02 cfs.

E. FLOW CALCULATIONS

Measured Method: field exam observation & photographic evidence. The leak in the applicant's main service pipe appears to discharge water at a greater rate than what is being diverted from the pipe to stock tank at time of exam. Recommending 0.02 cfs diversion rate which is 0.01 cfs less than the department standard for 75 head of cattle stockwater use diversion rate.

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation: N/A
2. Volume Calculations for Other Uses:

Stockwater annual volume & maximum diversion volume = 75 head cattle x 12 gpd x 265 day per year = 328,500 gal per year / 325,850 gal per af = **1.0 af** considering department rounding standards.

G. NARRATIVE/REMARKS/COMMENTS

Field exam performed on 6/16/2021 with the applicant's ranch hand, Jeff Workman, showed a spring developed for stockwater use. At the POD, the applicant has developed a spring field using drain tiles and spring box & pipe which route down grade to a rubber-tire stock tank. At time of exam stock had damaged the iron service pipe where they stand near the stock tank causing a significant leak of diverted water to bubble to the surface and flow down grade. As a result, I was unable to perform a flow measurement due to loss of diverted water at time of exam. A steady trickle from the metal pipe to a stock tank will produce less than 1 gpm. It is reasonable to assume the combined flow rate between water exiting pipe and water lost to leak will not exceed 10 gpm based on observation of water flowing from the leak area, and 0.02 cfs is recommended to license this water right which is the permit approved stockwater diversion rate for this water right.

The permit approved development of two springs, one of which that was identified for domestic use. The 2nd spring and domestic use was not developed by the applicant, and one POD and domestic beneficial use is being removed from the permit during licensing review.

The stockwater POU was observed during the exam and consists of a metal pipe that captures spring water from a tiled drain field to fill a large tractor tire for stockwater use 75 head of cattle on the property. Excess water overflows and routes downgrade where it flows to an unnamed stream tributary to Butcher Creek. After review of the Arcmap DRG layer, I recommend clarifying the spring sources tributary to state Butcher Creek which is the first named stream from the spring source. The stockwater annual volume & maximum diversion volume recommended to license this water right equals 75 head cattle x 12 gpd x 265 day per year = 328,500 gal per year / 325,850 gal per af = **1.0 af** considering department rounding standards. The stockwater POU was traced out as a circular area around the stock tank due to it being a non-mobile tank that remains stationary for cattle use throughout the year.

Conditions X01, X02, and 187 were removed from the permit during licensing review. Condition 004 shall be carried forward to the license. Due to the clarification of tributary for the water source, condition 227 was added describing minimum stream flow requirements for the South Fork Clearwater River, of which Butcher Creek is tributary to. There are no overlap concerns for 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 X None
 Change P.U. as reflected above Add P.U. as reflected above X None

I. AUTHENTICATION

Luke Bates -

Field Examiner's Name Z. Q. P. Date 11/16/2021
 Reviewer A. E. M. Date 11/16/2021

State of Idaho
Department of Water Resources
Attachment to Field Exam
85-15789

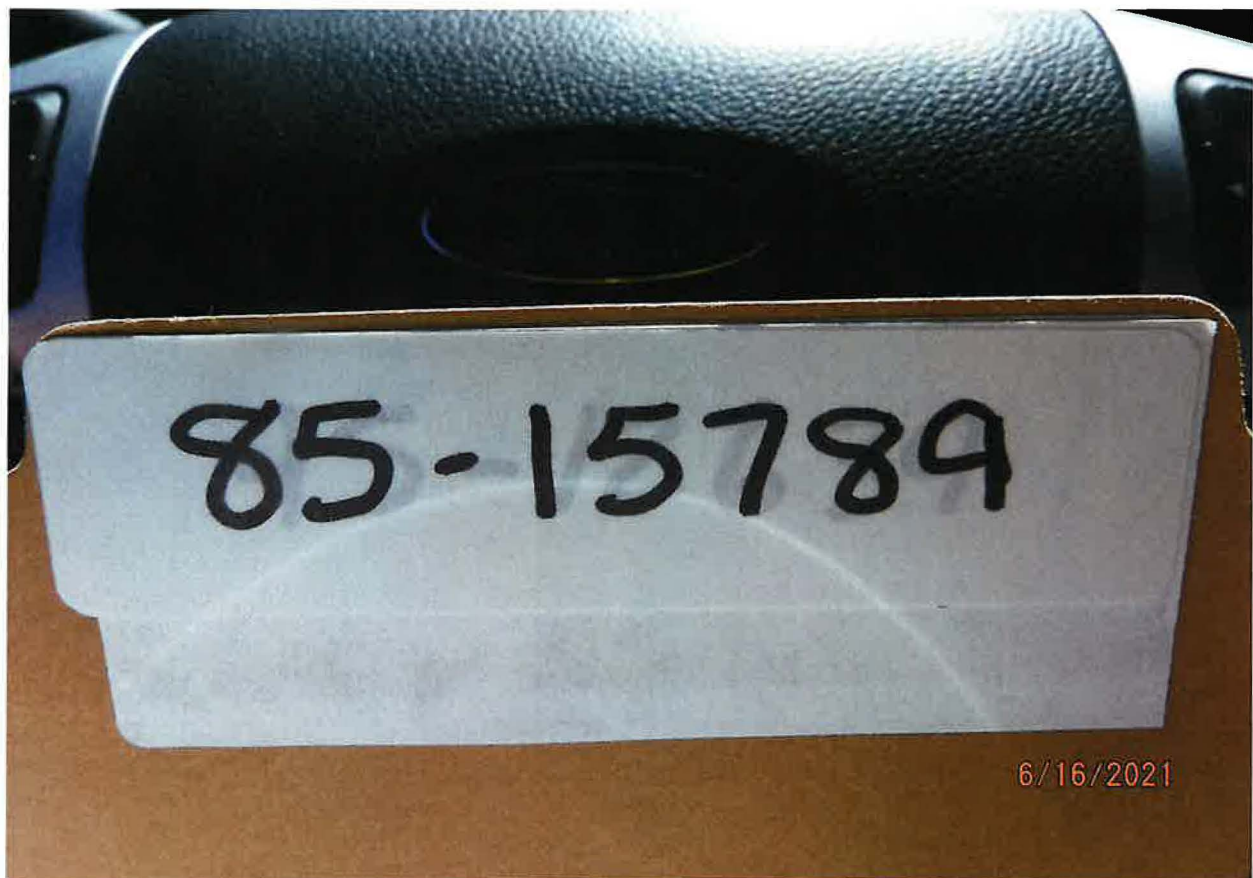
STOCKWATER system diagram.



- 03E
- Point of Diversion
 - Place Of Use Boundary
 - Townships
 - PLS Sections
 - Quarter Quarters

0 0.03 0.06 0.12 Miles





FIELD EXAM DATE 6/16/2021



POD – SPRING WATER FROM TILED DRAIN FIELD TO PIPE IN STOCK TANK



SPRING TILED DRAIN FIELD WITH ROCK FILL



APPROACH FROM SPRING FIELD TO STOCK TANK



STOCK DAMAGED DELIVERY PIPE CAUSING LEAK IN SYSTEM AT TIME OF EXAM





OVERFLOW FROM STOCK TANK ROUTES DOWN GRADE AND SINKS



STOCKWATER POU