STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 86-12086
Exam Date: 6/10/2018

1. Current Owner:
   JOHN A GRAVELLE PO BOX 603 JULIAETTA ID 83535 AND
   MATT P GRAVELLE PO BOX 603 JULIAETTA ID 83535 AND
   PAUL J GRAVELLE PO BOX 603 JULIAETTA ID 83535 AND
   CAROLYN M GRAVELLE PO BOX 603 JULIAETTA ID 83535

2. Accompanied by: John Gravelle
   Phone No: 509-995-1940
   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
86-11916	SPRING	STOCKWATER	DECREED

Comments: WR 86-11916 is for stockwater use by the same applicant, with one of multiple PODs associated with 86-11916 (springs) being the same POD as this water right.

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 NE¼ NW¼ SW¼, Sec. 26, Twp 38N, Rge 03W, B.M. LATAH County

Method of Determination: GPS. POD located at -116°41.082, 46°36.342.

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	
38N	03W	26										X							

Method of Determination: Arcmap and GPS

3.

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

D. FLOW MEASUREMENTS

1.

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

2. Measurements: Unable to perform flow measurements, as pipe flowing from spring box into 24hr impoundment pond did not provide suitable area to conduct measurements, nor 5 gallon bucket test.

E. FLOW CALCULATIONS

Measured Method: A diversion rate of **0.02 cfs** is recommended for licensing. Due to the unavailability of measuring requirements, the annual volume limiting factor of 1.5 af, and the fact that the spring feeds a very small holding pond, it is reasonable to apply a 0.02 cfs diversion rate.

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation: NA

$V_{I.R.}$ = (Acres Irrigated) x (Irrigation Requirement) =

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

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

2. Volume Calculations for Other Uses:

STOCKWATER = 50 head cattle x 12 gpd x 365 days = 219,000 gal
50 horses x 12 gpd x 365 days = 219,000 gal
50 goats/sheep x 2 gpd x 365 days = 36,500 gal
(219,000 gal + 219,000 gal + 36,500 gal) / 325,850 gal/af = **1.5 af**

G. NARRATIVE/REMARKS/COMMENTS

Admin note: WR 86-12086 was split from WR 86-11924.

Field exam on 6/10/2018 with applicant, John Gravelle, showed a spring with spring box diverting water by pipes to a nearby small pond for stockwater use. The spring at POD fed into a small holding pond that qualifies under the 24-Hour Fill allowance for Impoundment (Admin Memorandum, App Processing No. 73), which the applicant used daily to provide water source coverage for range stock. Due to inadequate piping surfaces and the pipes running to ground at pond, I was unable to perform a flow measurement. The holding pond is very small, and at time of field exam in early season the pond did not support a higher rate of inflow for daily use. It is recommended that the diversion rate of **0.02 cfs** be carried forward to licensing.

Applicant was permitted for stockwater use for 50 head of cattle, 50 horses, and 50 goats/sheep. The annual volume for these stock animals equals 1.5 af as computed below:

50 head cattle x 12 gpd x 365 days = 219,000 gal
50 horses x 12 gpd x 365 days = 219,000 gal
50 goats/sheep x 2 gpd x 365 days = 36,500 ga
(219,000 gal + 219,000 gal + 36,500 gal) / 325,850 gal/af = **1.5 af**, which will be applied to license as both the annual volume and the Maximum Diversion Volume.

Condition X02 was added to describe stockwater use and type of stock. Condition X35 was added to describe overlap requirements for Stockwater diversion rate and annual volume. Condition 01M was added to notify the applicant of potential for measuring device (if required in future). Condition 004 was added to describe restrictions of right-of-way or easement for this WR. WR 86-11916 is for stockwater use by the same applicant overlapping this water rights POU, but condition X35 listed above was applied to license mitigating overlap concerns

Have conditions of permit approval been met? __X__ Yes ____ No

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use	Rate of Diversion	Annual Volume
STOCKWATER	01/01 to 12/31	0.02 CFS	1.5 AF
	Totals:	0.02 CFS	1.5 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 Adam Fraser Date 5/27/2020

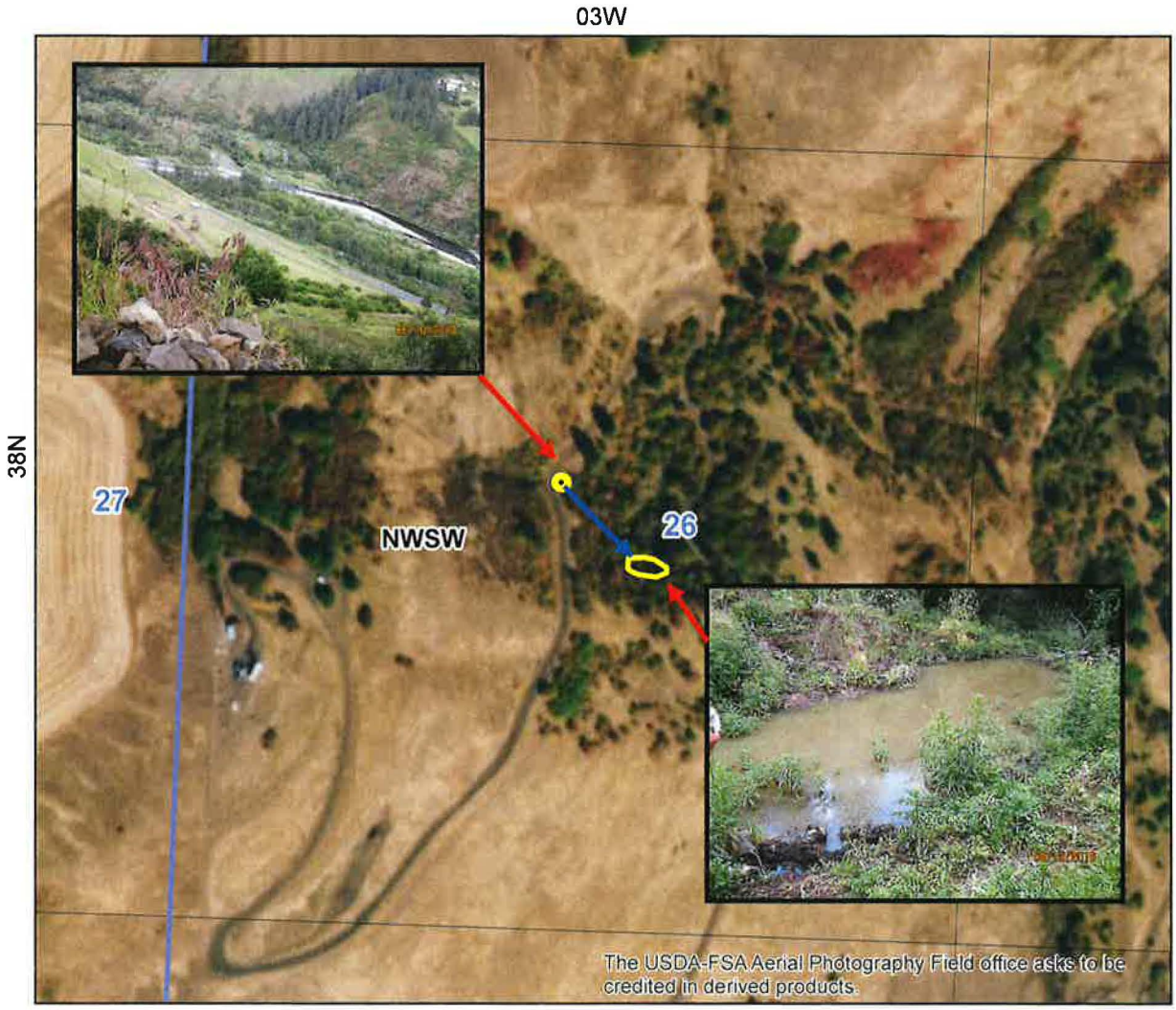
Reviewer LBates Date 5-22-2020

State of Idaho
Department of Water Resources

Attachment to Field Exam

86-12086

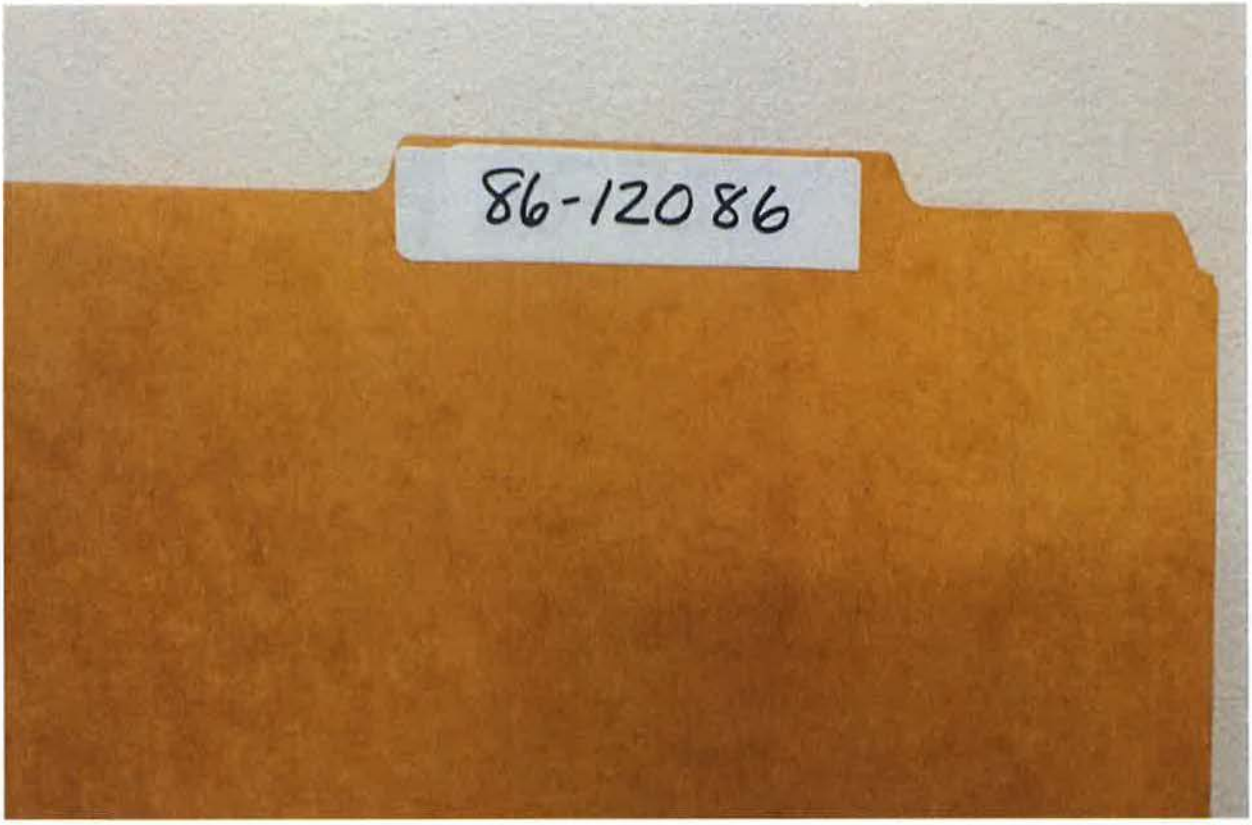
STOCKWATER system diagram.



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

0 0.035 0.07 0.14 Miles

N



POD - SPRING

POND POU

STOCKWATER POU