

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 51-13107
Exam Date: 10/17/2018

1. Current Owner:

PETER JACKSON JR 51800 J T LN RIDDLE ID 83604 (208) 759-3249 And/Or
RUTH JACKSON 51800 JT LN RIDDLE ID 83604 (208) 759-3249

2. Accompanied by: Lynn Bachman

Phone No: (208) 867-4681

Address:

Relationship to Permit Holder: Leases land from permit holder

3. SOURCE:

UNNAMED DRAIN

TRIBUTARY:

BRUNEAU RIVER

B. OVERLAP REVIEW

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

Water Right	Owner	Source	Use	NWNE
51-7319	Ace Black Ranches	Unnamed Drain	Irrigation	X
51-10271	Bruneau Buckaroo Coop Ditch Co	Bruneau River	Irrigation	X
51-10350	Bruneau Buckaroo Coop Ditch Co	Bruneau River	Irrigation	X
51-10351	Bruneau Buckaroo Coop Ditch Co	Bruneau River	Irrigation	X
51-2	Bruneau Buckaroo Coop Ditch Co	Bruneau River	Irrigation	X
51-3	Bruneau Buckaroo Coop Ditch Co	Bruneau River	Irrigation	X
51-5	Bruneau Buckaroo Coop Ditch Co	Bruneau River	Irrigation	X

Comments: The above listed irrigation water rights authorize irrigation of lands within the NWNE QQ of T06S, R06E, S31.

2. Other water rights with the same point-of-diversion: 51-7139, 51-13127

Comments: Water right 51-7139 and Permit 51-13127 authorize diversions of water from the Unnamed Drain, between the beginning and ending reach points associated with water right 51-13107.

C. DIVERSION AND DELIVERY SYSTEM1. LOCATION OF POINT(S) OF DIVERSION:

UNNAMED DRAIN NW¼NE¼ Sec. 31, Twp 06S, Rge 06E, B.M. OWYHEE County (Ending of Reach)

UNNAMED DRAIN NW¼NE¼ Sec. 31, Twp 06S, Rge 06E, B.M. OWYHEE County (Beginning of Reach)

Method of Determination: Field exam, GPS, aerial imagery.2. PLACE OF USE: STOCKWATER

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
06S	06E	31		X															

Method of Determination: Field exam, GPS, aerial imagery.

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 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					

*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date

2. Measurements: A field exam for water right 51-7139 was conducted during 2018 and found that flows of 0.04 cfs are measurable in the Unnamed Drain.

E. FLOW

Additional Computation Sheets Attached

CALCULATIONS

Measured Method: Pursuant to Idaho Code 42-113, a permit may be issued (but is not required) for an appropriation of water for in-stream watering of livestock. IDWR Snake River Basin Adjudication (SRBA) guidance further holds that a *de minimis* water use for stock watering purposes may be granted, where the diversion volume is not in excess of 13,000 gallons per day, consistent with Idaho Code 42-111.

The use acknowledged as developed under permit 51-13107 is in-stream stock watering. Adjudication Memorandum #58 recommends that *de minimis* instream stockwater uses should not be approved for more than 0.02 cfs and 13,000 gallons per day, unless an application is filed on the appropriate form. An application for permit for stockwatering is an appropriate form for stock water use under permit 51-13107, and 51-13107 can therefore be licensed with a diversion rate greater than 0.02 cfs.

During the 2018 licensing of water right 7319, a maximum flow of 0.04 cfs was measured in the same Unnamed Drain from which stock watering occurs under 51-13107. The flow requested under permit 51-13107 was 0.08 cfs. It is not possible to license a water right for an amount greater than that which was developed under the permit. In light of the maximum flow measured in the Unnamed Drain being 0.04 cfs, it is recommended that 0.04 cfs be the diversion rate for 51-13107.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

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

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

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

2. Volume Calculations for Other Uses: stockwater.

$$- 400 \text{ range cattle (8 gallons/day/head)} \times 30 \text{ days/year} / 325,851/\text{acre-foot} = 0.4 \text{ af/year,}$$

$$- 600 \text{ yearling cattle (12 gallons/day/head)} \times 30 \text{ days/year} / 325,851/\text{acre-foot} = 0.4 \text{ af/year,}$$

G. NARRATIVE/REMARKS/COMMENTS

On October 17, 2018, Remington Buyer and Dan Nelson performed a field exam on an Unnamed Drain, which drains water from a field, tributary to the Bruneau River. The drain begins as a concrete cylinder that drains water into a ditch, from which stock are directly watered. Lynn Bachman, a representative of the permit holder, stated that at most 600 yearling cattle are watered on the field, or as many as 400 range cattle. Mr. Bachman stated the cattle are watered for approximately 30 days each year. Yearling cattle drink approximately 8 gallons/day, while range cattle drink approximately 12 gallons/day. Multiplying either 600 yearlings * 8 gallons/day, or 400 range cattle * 12 gallons/day, and then multiplying either number by 30 days, before converting both to acre-feet (by dividing by 325,851) provides for the same annual volume amount of 0.4 acre-feet/year.

H. RECOMMENDATIONS**1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
STOCKWATER	01/01 to 12/31	0.04 CFS	0.4 AF
	<u>Totals:</u>	0.040 CFS	0.40 AF

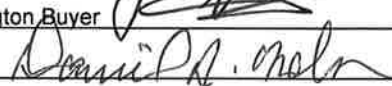
2. Recommended Amendments

☒ 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

Field Examiner's Name Remington Buyer  Date October 17, 2018

Reviewer Remington Buyer  Date December 13, 2018 12-14-18

Field Report Map, Permit 51-13107



Legend

- Points of Diversion
- Instream_POU
- Place of Use
- Township/Range
- Sections
- QQ

0 0.04750.095 0.19 Miles

Field Exam Photos



Point of Diversion (drain into ditch), beginning of reach



Looking into the ditch, from above the drain, beginning of reach



Permitted place of use (looking east)



Place of use (looking southwest)

Have conditions of permit approval been met? ☒ Yes ☐ No