

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 67-15049
Exam Date: 05/19/2021

1. Current Owner:
CONLEY R WALKER 748 ISLAND RD WEISER ID 83672

2. Accompanied by: Conley Walker
Phone No: 208-739-3242
Address: 645 Olds Ferry Rd, Weiser, ID
Relationship to permit Holder: Same

3. **SOURCE:**
GROUND WATER

Method of Determination: Site visit, well logs

B. OVERLAP REVIEW

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

Water Right No.	Source	Purpose of Use	Basis
67-10175	Groundwater	Stockwater, Domestic	Decreed

Comments: The shapefile for 67-10175 overlaps the place of use for this permit, however a condition on the right lists the parcels for the right as a different parcel than this permit. The parcel identified in the condition is directly to the East of this permit's POU and is also in the name of the permit holder.

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

Water Right No.	Source	Purpose of Use	Basis

Comments: The well spatial data point for water right 67-10180 overlaps that of this permit. However, there are 6 different well logs associated with this well spatial data point. The wells in this permit were drilled in 1993 & 1998, while the priority date for 67-10180 is 1967. Therefore, it is assumed that these POD's do not overlap.

C. DIVERSION AND DELIVERY SYSTEM**1. LOCATION OF POINT(S) OF DIVERSION:**

GROUND WATER L1 (NE¼ NE¼), Sec. 19, Twp 11N, Rge 06W, B.M. WASHINGTON County
GROUND WATER L1 (NE¼ NE¼), Sec. 19, Twp 11N, Rge 06W, B.M. WASHINGTON County
GROUND WATER L1 (NE¼ NE¼), Sec. 19, Twp 11N, Rge 06W, B.M. WASHINGTON County

Method of Determination: Well 1 (289065) GPS: 44° 16' 54" N, 117° 5' 50" W;
Well 2 (289066) GPS: 44° 16' 54" N, 117° 5' 50" W;
Well 3 (288777) GPS: 44° 16' 52" N, 117° 5' 48" W

PLACE OF USE: IRRIGATION

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	

11N	06W	19	6.2 L1																6.2
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Total Acres: 6.2

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	
11N	06W	19	X L1																0.0

Method of Determination: Site visit, aerial imagery, digital PLSS system

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
289065	n/a	1	n/a	n/a	n/a
289066	None	None	None	None	n/a
288777	None	None	None	None	n/a

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
5 Gal Bucket	Plastic	n/a	n/a	n/a	n/a	n/a

2. Measurements:

Well 1 Test #	Time
1	9.90 sec
2	10.06 sec
3	9.37 sec
Average	9.77 sec
Flow rate	30.7 gpm

<u>Well 2 Test #</u>	<u>Time</u>
1	5.02 sec
Flow rate	59.7 gpm

<u>Well 3 Test #</u>	<u>Time</u>
1	4.16 sec
Flow rate	72.1 gpm

*Well 2 and Well 3 tests were cut short due to a lightning storm and may not have enough measurements to be considered statistically significant.

E. FLOW CALCULATIONS

_____ Additional Computation Sheets Attached

Measured Method:

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:

G. NARRATIVE/REMARKS/COMMENTS

This permit authorizes 0.43 cfs of groundwater for irrigation, stockwater, and domestic purposes within Washington County. The application for permit was originally filed in the name of Estate of Esther M Smith. The permit was then assigned to Conley R. Walker on December 31, 2015. Proof of beneficial use was originally due on January 1, 2016. A request for extension of time was received on December 31, 2015, and the proof due date was extended til January 1, 2021. Proof of beneficial use was filed on September 28, 2020, and a field exam was conducted by WRA Tyler Smith on May 19, 2021. The permit holder was present during the examination.

The permit authorized two points of diversion, but during the exam the permit holder confirmed that three different wells were being used. An amendment will be needed to add the third point of diversion to the water right license. One well ID #289065, was completed to 295 ft below surface level (BSL), is located in a pump house and contains a 1-hp pump that diverts water to a 20-gallon pressure tank via 1.25" poly pipe, and then diverts the water to a stockwater trough in the middle of the corral. This well also has the capability to bypass the pressure tank and attach a 3" mainline and provide irrigation. This is the only well that diverts water for irrigation for this permit. A second well ID #289066 is an artesian well completed to 940 ft bsl. This well provides water to a stockwater trough to the West of the corral via 1.25" buried pipe. The third well ID #288777 is also artesian and was completed to 1065 ft bsl. This well provides water to a stockwater trough South of the corral via 1.25" buried pipe. A 5-gallon bucket test was done on each well, however a lighting storm began during the testing for the second and third well and only one measurement was taken for each well. Due to the low number of

measurements on the second and third well, the data may not be statistically significant.

The 3" mainline used for irrigation purposes is then attached to 2" hand lines. Each hand line section has a sprinkler nozzle that the permit holder estimated at 2 gpm. The most joints that can be utilized at one time is 11 and is operated between 36-38 psi. The permit authorized 12.4 acres of irrigation, however most of the irrigation place of use receives surface water from Weiser Irrigation District. Only 6.2 acres have been identified as irrigated with groundwater.

The permit authorized 0.15 cfs for domestic uses for 10 homes. This was originally planned to be a mobile home park, but this use was never developed, and neither was any other domestic use. Therefore, the domestic use should be removed at licensing.

The stockwater portion of the permit was conditioned to 50 cow/calf pairs. The permit holder confirmed that, although numbers fluctuate, the number of cow/calf pairs is typically around 50 at any given time.

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>	
IRRIGATION	03/01 to 11/15	0.25 CFS	
STOCKWATER	01/01 to 12/31	0.03 CFS	

Totals: 0.43 CFS

2. Recommended Amendments

X 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 Tyler Smith -

Field Examiner's Name _____ Date _____

Reviewer _____ Date _____

67-15049 Delivery System Diagram





Fig. 7 – Stockwater trough West of the corral that is fed by the well in fig. 6.



Fig. 8 – Artesian well, tag # D0001674, with a 6" casing from 0-1065 ft. This well supplies water to a trough south of the corral.



Fig. 9 – Close up of tag
ID # D0001674



Fig. 10 - Stockwater
trough South of the
corral that is fed by the
well in fig. 8.



Fig. 5 – The stockwater trough that is supplied by water from the well in fig. 2.



Fig. 6 – Artesian well with 8" casing from 1-40 ft, 6" casing from 1.5-617 ft, and a 4.5" casing from 605-945 ft. This well supplies water to a trough that is West of the coral.



Fig. 1 – Stock pens where cattle are fed and given stockwater. Two stockwater troughs are visible.



Fig. 2 – Well with 8" casing from 1-40 ft, completed to a depth of 295 ft. Drilling completed on 10/7/93. A 1-hp pump delivers water into the ~20 gallon pressure tank, then to the middle trough in the coral, or it can be diverted to hand lines for irrigation directly from the well. This is the only well that supplies the irrigation use.