

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
IN-OFFICE REVIEW/BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATIONPermit No: 95-17227

Exam Date: 11/26/2018

1. Does this qualify for an in-office field exam (IDAPA 035.02.r)? X Y N
- a. Irrigation of 5 acres or less
 - b. Storage of up to 14.6 AF for stockwater purposes only
 - c. Any use other than irrigation or storage, if the combined diversion rate is 0.24 cfs or less
 - d. Other < >

2. Current Owner: Name: George and Jaqui Dulebohn
Owner of Record Correct? X Y N
Address of Record Correct? Y N
If No: Address

Tax lot data shows George M. Dulebohn as the owner of the property.

3. Beneficial Use Fees have been paid: X Y N Receipt No: C105852

4. **SOURCE** **TRIBUTARY**

Ground Water

Method of Determination: GIS and Tax Parcel Data

Change in Source: Y X N

B. OVERLAP REVIEW

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

Water Right No.	Source	Purpose of Use	Basis
95-9357	Ground Water	Municipal	Permit

Comments: The only overlapping water right is 95-9357, which is a municipal permit for supplying water to various homes. The back file of 95-9357 suggests that very little has been done to proof up on this right. It appears as though many of the homeowners within the municipal boundary of 95-9357 have developed their own water systems. There are also two other recommended adjudication claims within the same boundary in this 40 acre tract for individual systems. Whereas 95-9357 is still in permit form, it shouldn't be considered in the licensing of this permit.

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

Water Right No.	Source	Purpose of Use	Basis

Comments: As stated above, there are two other water rights described in this 40 acre tract, but they are for the neighbor's property to the north and to the southwest. There are no water rights sharing this well according to the Department's records.

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

Source	Govt. Lot	¼	¼	¼	Sec.	Twp.	Rge.		County
Ground Water			SW	NW	4	49N	4W	B.M.	Kootenai
								B.M.	
								B.M.	

Method of Determination: Well Drilling Records, GIS, and Tax Lot data.Change in POD? X N Amendment Required? X N**2. PLACE OF USE:** Use: Irrigation

TWP	RGE	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
49N	4W	4							1.5 D S										1.5
		Lot #																	
Total Acres =																			2.5

Method of Determination: GIS and Tax Lot DataChange in POU? X N Amendment Required? X N Delivery System Diagram Attached (required). Indicate all major components and distances between components.

Indicate weir size/pipe as applicable.

 X Aerial Photo Attached (required for irrigation of 10+ acres). Photo of Diversion and System Attached

4. Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
D0072079	Unknown				

*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
NONE						

2. Measurements: No measurement is required for an in-house exam.

E. FLOW CALCULATIONS

Attached

YES Additional Computation Sheets

Measured Method:

There was very little information in the file describing the pumping system for this permit. I used the standard irrigation requirements allowed for the irrigation of property less than 5 acres of 0.03 cfs per acre allowed in Processing Administrative Memorandum #17. I was not able to confirm the number of stock, so I used the standard for 0 to 10 head of cattle found in Processing Administrative Memorandum #3. I also used the standard for domestic of 0.04 cfs found in Processing Administrative Memorandum #22.

Acre Limits = 1.5 acres X 0.03 cfs per acre = 0.05 cfs for irrigation

Stockwater for 0 – 10 head = 0.02 cfs

Domestic for 1 home = 0.04 cfs.

Permit allowed a total of = 0.06 cfs

I am recommending a diversion rate of 0.05 cfs for irrigation, 0.02 cfs for stockwater, and 0.04 cfs for domestic use. This permit originally allowed 0.06 cfs for the irrigation of 3 acres, but this system is less than 5 acres, so we can allow up to 0.03 cfs per acre. The permit was protested and a settlement agreement was signed that limited the water use for this property to 0.06 cfs and 38,779 gallons per day. The maximum daily volume allowable with a 0.06 cfs diversion rate is 38,776 gpd, so this recommendation does appear to be consistent with the agreement as I understand it.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 1.5 \text{ acres} \times 3 = 4.5 \text{ af}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.05 \text{ cfs} \times 246 \times 1.9835 = 24.4 \text{ af}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 4.5 \text{ af}$$

2. Volume Calculations for Other Uses:

The proof of beneficial use stated that there were 6 mixed stock (future), and I was not able to confirm the number of stock. It is clear that there have been some animals in the pens behind the barn, so I used the standard for 0 to 10 head of range cattle, horses, or mules found in Processing Administrative Memorandum #3 of 0.02 afa. I also used the standard for domestic of 0.6 af found in Processing Administrative Memorandum #22 for in-house use only. The irrigation use will be covered by the irrigation component of this right.

Stockwater – 0.2 af

Domestic – 0.6 af

G. PURPOSE OF USE

Irrigation X Y N # Stock Up to 6 Domestic # of Homes 1

Other: < >

Change in Purpose of Use? Y N

Method of Determination: Taxlot data and conversations with owner.

If Yes: From Use _____ To Use _____ Amount _____ CFS _____ AFA _____

H. NARRATIVE/REMARKS/COMMENTS

This permit was originally protested. The two parties submitted a settlement agreement to allow the permit to move forward with processing. Section B of the settlement agreement states the following:

Section B. Under the terms of this agreement, George and Jaqui Dulebohn agree to undertake the following actions:

- 1.) Amend George and Jaqui Dulebohn's application for permit to stipulate a ground water diversion rate for the water rights associated with IDWR permit no. 95-17227 for 0.06 cfs with the quantity of water under this right shall not exceed 38,779 gallons per day.

My understanding of the agreement based on the above section is that the water right must not exceed 0.06 cfs and 38,779 gallons per day. It should be noted that the maximum that 0.06 cfs can supply in a 24 hour period is 38,776.32 gallons per day. The diversion rates and volumes that I have recommended for licensing are well within these parameters. This agreement is a private agreement between the protestant and the applicant, but I wanted to ensure that my recommendations complied with the spirit of the agreement. The recommendations are well within the boundaries of the permit, but protests were withdrawn according to the agreement which in turn allowed the permit to be approved.

Conditions 1 and 2 on the permit are never carried forward to licensing. Conditions 3 (26A), 4 (046), 6, and 9 (004) shall be removed at licensing as is standard. Condition 5 (132) and 8 (020) will be carried forward to licensing. Condition 7 (R58) will be changed to condition R66, since the reduction of acres allows the maximum rate per acre without going over the 0.06 cfs limit of the permit and settlement agreement.

Have conditions of permit approval been met? X Yes No

I. RECOMMENDATIONS

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
Irrigation	03/15 to 11/15	0.05 CFS	4.5 AF
Domestic	01/01 to 12/31	0.04 CFS	0.6 AF
Stockwater	01/01 to 12/31	0.02 CFS	0.2 AF
<u>Totals:</u>		0.06 CFS	5.3 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

Other: < >

J. AUTHENTICATION – DANIEL A. NELSON – WATER RIGHT ANALYST 3

Field Examiner's Name



Date

11-26-18

Reviewer

Date

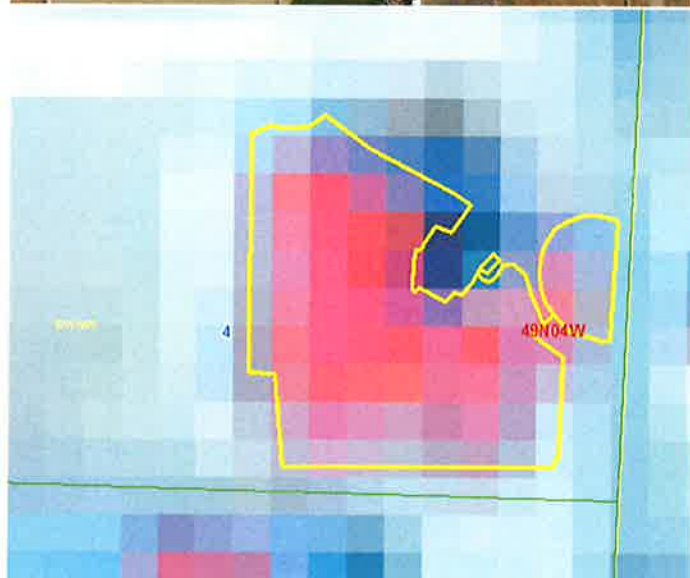
Permit 95-17227 – Field Exam Map



This top aerial photo is a 2017 aerial image of the property associated with 95-17227. It is clear that pasture southwest of the home is irrigated, but it doesn't show the $\frac{1}{2}$ circle next to the road, or the 3 pens south of the home as being irrigated.



This aerial imagery is a 7/14/2018 aerial photo of the property again. You can clearly see rings and the $\frac{1}{2}$ circle being irrigated. The eastern two pastures south of the home are still a bit suspect as for irrigation.



This is the 10/17/2018 sentinel satellite imagery. This imagery does suggest that all of the 3 southern pastures were irrigated along with the pasture and the $\frac{1}{2}$ circle.

The entire acreage irrigated within the yellow border is 1.5 acres of ground. I can't see any significant irrigation north of the home or the large field west on the fence through the middle of property. Therefore, I am recommending 1.5 acres of irrigation.