

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

A. GENERAL INFORMATIONPermit No: 86-12097Exam Date: 7/29/2022

1. Does this qualify for an in-office field exam (IDAPA 37.03.02.035.01.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: Jeffery K. and Denise Chaffins
Owner of Record Correct? X Y N
Address of Record Correct? Y N
If No: Address

The Department's parcel data shows both parcels involved with this permit are owed by Jeffery K. Chaffins. I don't see any issues with the ownership of this permit.

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

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

Ground Water

Method of Determination: GIS, Well Driller's Report, and Tax Parcel DataChange in Source: Y X N**B. OVERLAP REVIEW**

1. Other water rights with the same place of use: NO Overlap

Water Right No.	Source	Purpose of Use	Basis

Comments: There are no other water rights on these two parcels.

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

Water Right No.	Source	Purpose of Use	Basis

Comments: There are no other water rights on this well or on these two parcels.

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

Source	Govt. Lot	1/4	1/4	1/4	Sec.	Twp.	Rge.		County
Well Tag # D0057317			SW	SE	20	39N	4W	B.M.	Latah
								B.M.	
								B.M.	

Method of Determination: GIS, Well Driller's Report, and Tax Parcel Data.

Please Note: The point of diversion shown on the application for permit and permit shows the well on the eastern edge of the property. However, the well driller's report shows across the driveway from the home. Aerial imagery shows what appears to be a pump house at this location, so I going to use the GPS Hand Entered point of diversion show in the well driller's database. This doesn't change the legal description, so there shouldn't be an issue.

Change in POD? X N Amendment Required? X N**2. PLACE OF USE:** Use: Domestic and 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	
39N	4W	20															D		
		Lot #																	
39N	4W	29		S															
		Lot #																	
Total Acres =																			

Method of Determination: GIS and Tax Parcel 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
Well Pump	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

____ Additional Computation Sheets Attached

Measured Method:

The permit holder supplied a description of the diversion as a ¾ Hp – 9 gpm pump. The permit also has the well driller's report that states that the static water level in the well is 106 feet with a total depth of 174 feet. I used an estimation for the pumping water level by using the midrange of water profile of 140 feet. I also estimated the pressure by using the standard for a home or 50 psi. Using these estimations was able to come up an estimated flow rate that is similar to the 9 gpm the permit holder stated the capacity of the pump. The permit holder also stated in the proof statement that he had 2 cows. I determined the diversion rate was very close to flow rate authorized by the permit. I also considered Administrative Processing Memorandum #22 and #3.

Theoretical Calculations = $[8.8 \times 0.70 \times 0.75 \text{ hp}] / 140 \text{ feet PWL} + (50 \text{ psi} \times 2.31) = 0.018 \text{ cfs or (8 gpm)}$

Administrative Memo #22 = 0.04 cfs for domestic use.

Administrative Memo #3 = 0.02 cfs for 0 to 10 head of cattle

Permit allowed = 0.02 cfs for domestic use

Permit allowed = 0.02 cfs for stockwater use

Permit allowed = 0.02 cfs total use

I am recommending 0.02 cfs for domestic, 0.02 cfs for stockwater use, and total diversion rate of 0.02 cfs based on the limits imposed by the permit.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = \underline{\hspace{2cm}}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = \underline{\hspace{2cm}}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = \underline{\hspace{2cm}}$$

2. Volume Calculations for Other Uses:

Administrative Processing Memorandum #22 provides guidance to allow 1.2 acre-feet for in-house use. Administrative Processing Memorandum #3 allows 0.2 acre-feet for stockwater. **I am recommending that this permit be limited to 1.4 acre-feet for domestic use.**

G. PURPOSE OF USE

Irrigation ____Y____N # Stock 2 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 qualifies for an in-house examination. The original application for permit was for 0.04 cfs for domestic use only and no place of use. That application was subsequently amended to include 0.02 cfs for stockwater purposes and a place of use was added. The place of use was confusing, because it placed the domestic place of use and stockwater place of use in separate 40-acre tracts and different parcels. The application for permit was protested by Latah County. The protest was withdrawn when the applicant and protestant signed a settlement agreement to limit the diversion rate for domestic to 0.02 cfs, for stockwater to 0.02 cfs, and a total diversion rate of 0.02 cfs. The diversion rate limitation doesn't appear to matter, since the well looks like it only produces a diversion rate of 8 to 9 gpm or 0.02 cfs.

The Statement of Completion for Submitting Beneficial use or Proof Statement was submitted late, but within 60 days of the date that the Proof Statement was supposed to be submitted. The permit did lapse, but it was reinstated. The priority date was advanced to May 4, 2018.

The only concern was that the two water uses have been placed in separate 40-acre tracts. However, this does make some sense, since there are two parcels. The domestic use is on one parcel and the stockwater use is on the other parcel. This would allow a water use on each parcel. It appears as though this was done purposely.

The application states that there will be 25 head of mixed stock, but the Proof Statement says there are only 2 cows.

Conditions X01, 187, 020, and 004 should be carried forward to licensing. No further conditions are required for the licensing of this permit.

Have conditions of permit approval been met? ☒ Yes ☐ No**I. RECOMMENDATIONS****1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
Domestic	01/01 to 12/31	0.02 CFS	1.2 AFA
Stockwater	01/01 to 12/31	0.02 CFS	0.2 AFA
<u>Totals:</u>		0.02 CFS	1.4 AFA

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 3Field Examiner's Name  Date 7-29-22Reviewer  Date 7/29/22

Field Exam Map:

The yellow border shows the place of use for the domestic use, the orange border shows the place of use for the stockwater, and the yellow point shows the point of diversion. You can see what appears to be a well house east of the well. The well was placed based on the GPS coordinates on the Well Driller's Report. You can also see what appears to be a line from the home to the shop and down to the location of the water trough.

