

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

A. GENERAL INFORMATIONPermit No: 86-12130Exam Date: 4/21/2022

1. Does this qualify for an in-office field exam (IDAPA 37.03.02.035.01.r)? X Y N
- Irrigation of 5 acres or less
 - Storage of up to 14.6 AF for stockwater purposes only
 - Any use other than irrigation or storage, if the combined diversion rate is 0.24 cfs or less
 - Other < >

2. Current Owner: Name: Daniel and Jessica Matoske
 Owner of Record Correct? X Y N
 Address of Record Correct? Y N
 If No: Address

According to the Department's parcel data, the property is currently owned by Daniel Matoske. There doesn't appear to be any issues.

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 overlapping rights for this place of use.

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

Water Right No.	Source	Purpose of Use	Basis

Comments: There are no overlapping rights for this place of use.

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

Source	Govt. Lot	¼	¼	¼	Sec.	Twp.	Rge.		County
Well Tag # D0079476			SE	SW	35	40N	2W	B.M.	LATAH
								B.M.	
								B.M.	

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

Change in POD? X N Amendment Required? X N

2. **PLACE OF USE:** Use: Domestic

TWP	RGE	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
40N	2W	35												D					
		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	3.5			

*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 application for permit and the Proof of Beneficial Use Statement both state that there is a 3.5 Hp in the well. The well driller's report suggests the static water level is 285 feet and the total well depth is 320 feet, so the mid point of the water column in the well would be 302.5 feet deep. An average standard pressure for a domestic system is 50 psi. I used all this information to calculate an estimated theoretical diversion rate shown below. I also showed the standard for domestic use set forth by Administrative Processing Memo #22.

$$\text{Theoretical} = (3.5 \text{ Hp} \times 8.8 \times 0.70) / [302.5 \text{ ft} + (50 \times 2.31)] = 0.0494 \text{ cfs}$$

Administrative Memo #22 = 0.04 cfs for domestic use

Permit allowed = 0.02 cfs

I am recommending 0.02 cfs since the permit limitation is less than the estimated pump capacity and the limitation supplied in Administrative Memorandum #22.

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 af for in-house use and yard irrigation.

G. PURPOSE OF USE

Irrigation ☐ Y ☐ N # Stock ☐ 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. This permit was protested by Latah County, which signed an agreement with the permit holder to reduce the diversion rate of the permit to 0.02 cfs. This is about 1/2 of the amount allowed by Administrative Memorandum #22 and is less than the capacity of the pump.

The application for permit shows only a diversion rate of 0.04 cfs, and there is no amendment in the file that changes the diversion rate to the 0.02 cfs shown on the approved permit. However, there is a copy of the agreement between the permit holder and Latah County that they both signed agreeing to limit the proposed permit to 0.02 cfs. There also isn't any official request from the permit holder to change the diversion rate to 0.02 cfs, but it appears to be acceptable to the permit holder per the signed agreement submitted to the Department.

Conditions 020, X01, and 187 will be carried forward to licensing.

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
	<u>Totals:</u>	0.02 CFS	1.2 AFA

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

Other: < >

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

Field Examiner's Name  Date 4-21-22

Reviewer  Date 4/25/22

Field Exam Map:

The yellow border shows the place of use and the yellow point shows the point of diversion. The green borders show the local tax parcels available to the Department. You can clearly see the domestic home in the 2021 NAIP aerial image.

