

Comments: There are no other points of diversion within this 40 acre tract.

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

Source	Govt. Lot	¼	¼	¼	Sec.	Twp.	Rge.		County
Well Tag # D0008709			SE	SW	28	7S	31E	B.M.	Power
								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	
7S	31E	28												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 Hp			

*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 approval was based on Administrative Processing Memorandum #22, which allows 0.04 cfs for a single domestic use. The application for permit states that the well pump being used is a 3 Hp pump. The Well Driller's Report shows the pumping water level at 232 feet. Using this information and an average standard of 50 psi, the following diversion rate was calculated:

$$\frac{(3 \text{ Hp}) \times (0.70) \times (8.8)}{(232 \text{ ft}) + (2.31 \times 50 \text{ psi})} = 0.053 \text{ cfs or } 24 \text{ gpm}$$

Permit allowed = 0.04 cfs

I am recommending 0.04 cfs since the permit limitation was based on Administrative Memorandum #22, and it is less than the capacity of the pumping system.

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. However, this permit has a 13,000 gallon per day limitation condition, so no volume is required.

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 is for a single family home on a 1 acre parcel. The yard associated with this permit appears to be over ½ acre. The property is clearly inside Falls Irrigation District, so it is possible that some if not all of the irrigation could be done using the District's water.

This permit is within the Snake River Moratorium area, so it is limited to a ½ acre of irrigation, and shall not exceed a daily volume of 13,000 gallons per day as described in Idaho Code § 42-111.

A portion of this parcel seems to be in the NESW of Section 33, and majority of this parcel seems to be in the SESW of Section 28. According to Exhibit A of the Warranty Deed the parcel appears to be totally in the SESW of Section 28. Therefore, I didn't include the portion of the property shown in our mapping system in the NENW of Section 33.

Conditions X01, N13, and 187 should be carried forward to licensing. No additional information will be needed at licensing.

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>
Domestic	01/01 to 12/31	0.04 CFS	
<u>Totals:</u>		0.04 CFS	

Please Note: This permit has a condition limiting the domestic use to 13,000 gallons per day, so no annual volume will be included on the water right license.

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

2-3-22

Reviewer



Date

2/4/22

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 tax parcels for this property. The imagery clearly shows the home on the property.

