

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 86-12095
Exam Date: 06/28/2023

1. Current Owner:
DAVID SALMERI 3108 HIGHWAY 3 DEARY ID 83823-9603

2. SOURCE:
GROUND WATER

Method of Determination: Well Drillers report

B. OVERLAP REVIEW

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

Water Right No.	Source	Purpose of Use	Basis
86-12096	Unnamed Stream	Stockwater storage, wildlife storage, fire protection storage	Permit

Comments: Permit holder has concurrent permit for two ponds on the same QQ

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

Water Right No.	Source	Purpose of Use	Basis
N/A			

Comments: N/A

C. DIVERSION AND DELIVERY SYSTEM

1. LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER SE¼ SW¼, Sec. 23, Twp 40N, Rge 02W, B.M. LATAH County

Method of Determination: Well Drillers report and GIS data

PLACE OF USE: DOMESTIC

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
40N	02W	23												X					

Method of Determination: Well Drillers report and GIS data

3. Delivery System Diagram Attached (required). Indicate all major components and distances between components.
 x Indicate weir size/pipe as applicable.

- x 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
993206		5			

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
N/A						

No exposed lines from pump to storage tank, no measurements made

E. FLOW CALCULATIONS

 x Additional Computation Sheets Attached

Measured Method: Brake Horsepower Equation (see attached)

Permitted Rate = 0.02 cfs

Recommended Rate = 0.02 cfs

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation: n/a

2. Volume Calculations for Other Uses: Domestic

Standard domestic volume for 1 home + external use = 1.2 acre-ft

G. NARRATIVE/REMARKS/COMMENTS

Permit 86-12095 could have qualified for an in-house examination, but the field exams for 86-12095 and 86-12096 were done concurrently on June 28, 2023 on-site. David Salermi submitted an application for permit on November 5, 2020, which was protested by Latah County Board of Commissioners. The protests were withdrawn when an agreement was reached by reducing the diversion rate from 0.04 cfs to 0.02 cfs. An additional condition on the permit states:

The diversion and use of water described in 86-12095 may be subject to additional conditions and limitations agreed to by the protestant and the right holder under a separate agreement to which the Department is not a party. Because the Department is not a party, the Department is not responsible for enforcement of any aspect of the agreement not specifically addressed in other conditions herein. Enforcement of those portions of the agreement not specifically addressed in other conditions shall be the responsibility of the protestant and the water right holder.

Proof was received on October 28, 2023. The source and point of diversion were confirmed via field observation to be ground water from SE¼ SW¼, Sec. 23, Twp 40N, Rge 02W, Latah County. A copy of the Well Drillers Report was submitted along with the Proof of Beneficial Use. David Salermi, permit holder, wrote "The transmission line is 2" schedule 40. Elevation is about 80 ft. to the 2300 gallon tank. The pump is 5 horsepower." Ground water is conveyed

directly to a 2300-gallon storage tank near the domestic structure and garden. The well also provides water to the shop (see Figure 1). Google Earth shows the elevation difference to be approximately 140 ft from the well to the storage tank. The drillers reported static water level of 25 ft below ground surface was used to estimate the static head as 165 ft. The brake horsepower equation, assuming 70% efficiency, demonstrates that the conveyance system is very capable of producing the diversion rate. Ownership of both the POD and POU are confirmed via tax parcel information. I am recommending reducing the POU to just SE¼ SW¼, Sec. 23, Twp 40N, Rge 02W since that is the only QQ that domestic use has been developed.

I am recommending the annual volume to be the standard 1.2 acre-ft for 1 home with external use. I am also recommending the permitted rate of 0.02 cfs as the conveyance system is capable of diverting water at that rate. Condition 046 should not be carried to the license since the well has been drilled by a licensed driller and constructed to Idaho Code. Conditions X01 should be updated to include the shop. Condition 187 should remain on the license to restrict the enlargement of the beneficial use beyond 1 home and ½ acre of irrigation. Condition 020 should remain to remind invested parties that IDWR will not be enforcing whatever private agreement was made between the protester and the water right holder.

Have conditions of permit approval been met? x Yes No

H. RECOMMENDATIONS

1. Recommended Amounts

<u>Beneficial Use</u>	<u>Period of Use</u>	<u>Rate of Diversion</u>	<u>Volume</u>
DOMESTIC	01/01 to 12/31	0.02 CFS	1.2 AF
<u>Totals:</u>		0.02 CFS	1.2 AF

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

I. AUTHENTICATION

Blake Burkard -

Field Examiner's Name Date 3/7/25

Reviewer Date 3/7/25

Flow Calculation Sheet

PERMITTED FLOW (CFS):	0.02
(GPM):	8.9772

TOTAL DYNAMIC HEAD	
Elevation of water surface (ft):	2775
Elevation of highest sprinkler location (ft):	2940
STATIC HEAD (ft):	165
Sprinkler Pressure (psi):	40
PRESSURE HEAD (ft):	92.4
Linear distance between pump and furthest sprinkler head (ft):	770
Assume friction loss: (psi/100 ft)	0.2
FRICTION HEAD (ft):	1.54
SUM (ft):	258.94

EFFICIENCY(%):	70
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BRAKE HORSEPOWER (PUMP):	0.84
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REARRANGE FOR FLOW:	
Pump HP:	5

Q (cfs):	0.119
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Linear distance calculated is from the well head to the approximate location of the storage tank. Friction loss is assumed knowing 2" lines.

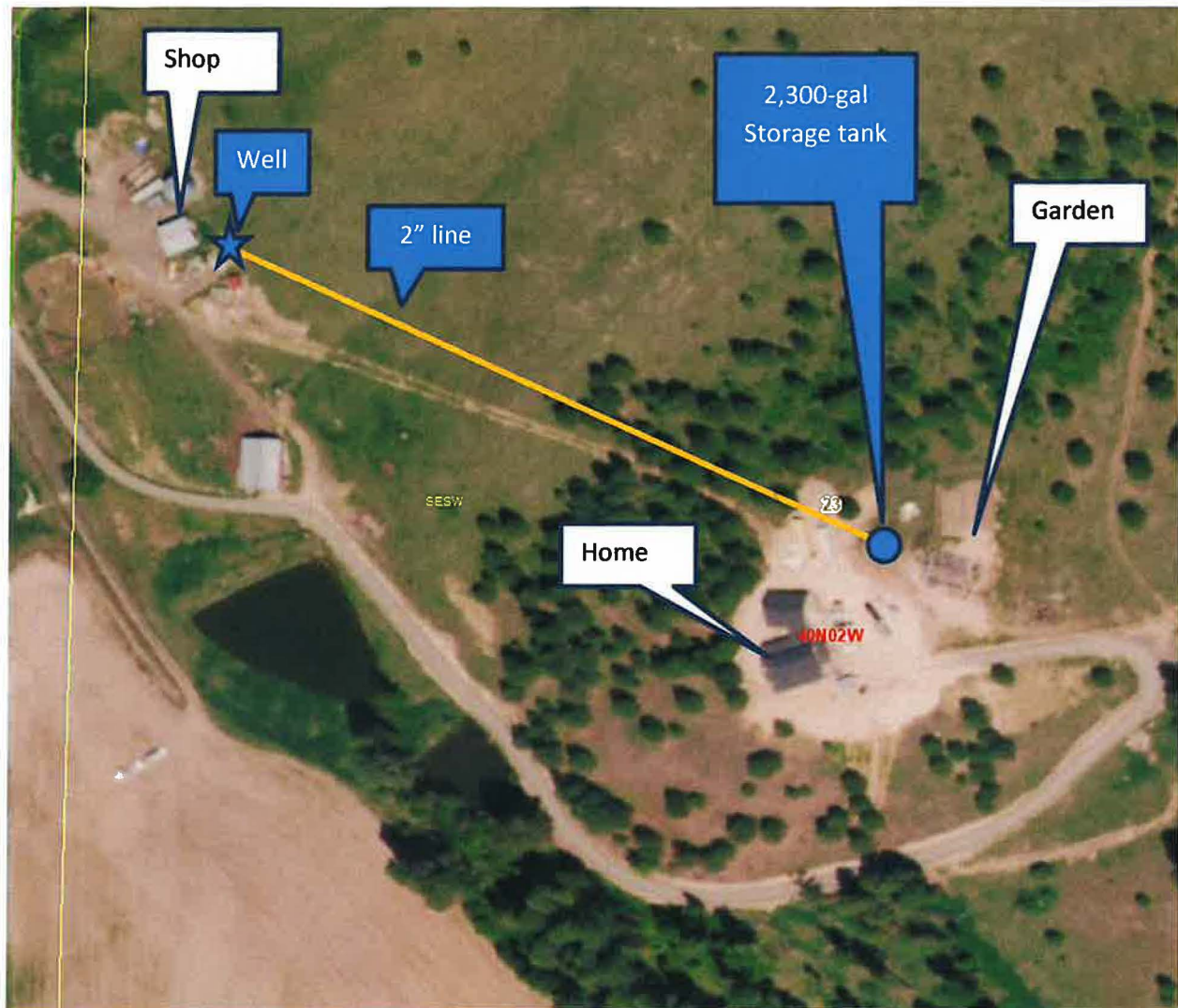


Figure 1: System diagram with POU labels



Figure 2: Photograph of the south side of the home. Garden is to the southeast, out of frame



Figure 3: Photograph of the garden. Additional photo of the garden submitted with proof. Storage tank is buried between the POV and the garden