

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 87-10021
Exam Date: 9/17/2018

1. Current Owner:
MELVIN C TAGGART 5472 HWY 95 POTLATCH ID 83855
2. Accompanied by: Charles Taggart
Phone No: 208-413-3887
Relationship to Permit Holder: Nephew

3. **SOURCE:**
GROUND WATER

TRIBUTARY:

B. OVERLAP REVIEW

1. Other water rights with the same place of use: maybe statutory claim 87-4139
2. Other water rights with the same point-of-diversion: none

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

GROUND WATER SW¼NW¼ Sec. 2, Twp 41N, Rge 05W, B.M. LATAH County

Method of Determination: Maps and GPS. POD D0010901 located at -116° 56.259, 46° 55.591 given IDWR tag A0020028.

2.

PLACE OF 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	
41N	05W	2							X										

PLACE OF 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	
41N	05W	2							0.9										.9

Total Acres: 0.9

Method of Determination: Google Earth, Arcmap, and DRG.

3.

Delivery System Diagram Attached (required). Indicate all major components and distances between components.

☒ Indicate weir size/pipe as applicable.☒ 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
D0010901	UNKNOWN	3/4			

*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

2. Measurements: N/A

E. FLOW CALCULATIONS

Measured Method: Unable to perform flow measurement ☒ Additional Computation Sheets Attached
 because there was no proper location. Theoretical pumping equation estimates flow rate at 0.03 cfs or 12.0 gpm.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 0.9 \text{ AC} \times 3.0 \text{ AF} = 2.7 \text{ AF}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.03 \times 214 \times 1.9835 = 12.7 \text{ AF}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 2.7 \text{ AF}$$

2. Volume Calculations for Other Uses:

$$\text{Domestic use for 2 homes and 1 mobile home} = 0.6 \text{ AF} \times 3 = 1.8 \text{ AF}$$

$$\text{Domestic use for 2 RV's with full hookups} = 100\text{gpd} \times 365 \text{ days} = 36,500 \text{ gpy}$$

$$\text{Domestic use for 1 bathroom in shop} = 35\text{gpd} \times 312 \text{ days} = 10,920 \text{ gpy}$$

$$36,500 + 10,920 = 47,420 \text{ gpy} / 325,850 \text{ gal/af} = 0.1 \text{ AF}$$

G. NARRATIVE/REMARKS/COMMENTS

A field exam was set up with Charles Taggart because the applicant, Melvin Taggart was in an assisted living facility. Charles Taggart was the applicant's nephew and lived in close proximity to Melvin's house. The applicant had a well drilled under tag D0010901 and given an IDWR tag A0020028 after a GPS was taken. The well was located in the pump house and was diverted directly to a pressure tank. There was no proper location to perform a flow measurement and a theoretical pumping equation will be required. There was nothing visible in the pump house that would identify what size pump was in the well. Charles Taggart had found a file that had the receipt from the pump installers and I was able to verify it was a 3/4hp pump set at 105 feet. Theoretical pumping equation estimates the flow rate at 12.0 gpm or 0.03 cfs.

The applicant had applied for many uses of the water but during exam only domestic and irrigation was found. The well served 3 homes, 1 mobile home had just been removed but was using water during the development period of the permit. There were also two RV pads which were occupied year round with full hook ups. The applicant had applied for commercial uses but none were present at time of exam. There was an automotive shop that didn't appear to be used by public and just the family. There was a bathroom present and Charles Taggart said the family did work on vehicles 5 or 6 days a week and would use the bathroom inside. Because the shop only had a bathroom and wasn't a public shop, a domestic use will be given instead of a commercial. The shop will be given 35gpd and usage will be 312 days. The RV spots will be given 100gpd and usage will be 365 days. The two homes and one mobile home will be given 0.6 acre-feet each.

The irrigation occurring at time of exam was found to be 0.9 acres. The irrigation was done from frost free hydrants with hose and sprinklers. The general area of this permit is owned by various family members and may have been owned by Melvin Taggart at some point. There was other well(s) on the west side of the family's properties serving other homes and they would be filing claims in the upcoming basin 87 adjudication. It was difficult to determine the extent of the irrigation that was coming Melvin Taggart's well and what was from the other well(s). Charles Taggart sketched out the area they irrigated from Melvin Taggart's well and it was equal to 0.9 acres.

The license will be issued with a diversion rate of 0.03 cfs and an annual volume of 1.9 acre-feet for domestic and 2.7 acre-feet for irrigation. Some license conditions will be removed and some will be changed. Condition WB5 will be changed to condition 132. Condition 26A, X02, 106 and condition referencing commercial use will all be removed. Condition 004 will be added due to the taxlot ownership of properties using water under this right. There could be some overlap with statutory claim 84-4139 but cannot be certain until the basin 87 adjudication. Charles Taggart showed me an old hand dug well that use to serve some homes prior to the drilling of D0010901. Because of the uncertainty of the actual location of 84-4139 there will be no overlap condition.

On our mapping system, it appears the shop is located in a different section. I have attached a DRG map showing our layer is off and that the shop is located in section 2. Because the shop is located in section 2 according to the DRG, there is no need for an amendment.

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>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
DOMESTIC	01/01 to 12/31	0.03 CFS	1.9 AF
IRRIGATION	04/01 to 10/31	0.03 CFS	2.7 AF
	<u>Totals:</u>	0.030 CFS	4.60 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

Field Examiner's Name Glen Fink Date 10/26/18

Reviewer Douglas Jones P.E. Date 1/28/19

Note: Extension of Time to file proof of beneficial use granted 12/4/2007. Proof due 12/1/2012, filed 12/4/2012, priority advanced 3 days to 6/15/2002.
 Jones 1/28/19

State of Idaho
Department of Water Resources
Attachment to Field Exam
87-10021

DOMESTIC / SYSTEM DIAGRAM

05W



- Point of Diversion
- Place Of Use Boundary
- Townships
- PLS Sections

0 0.035 0.07 0.14 Miles

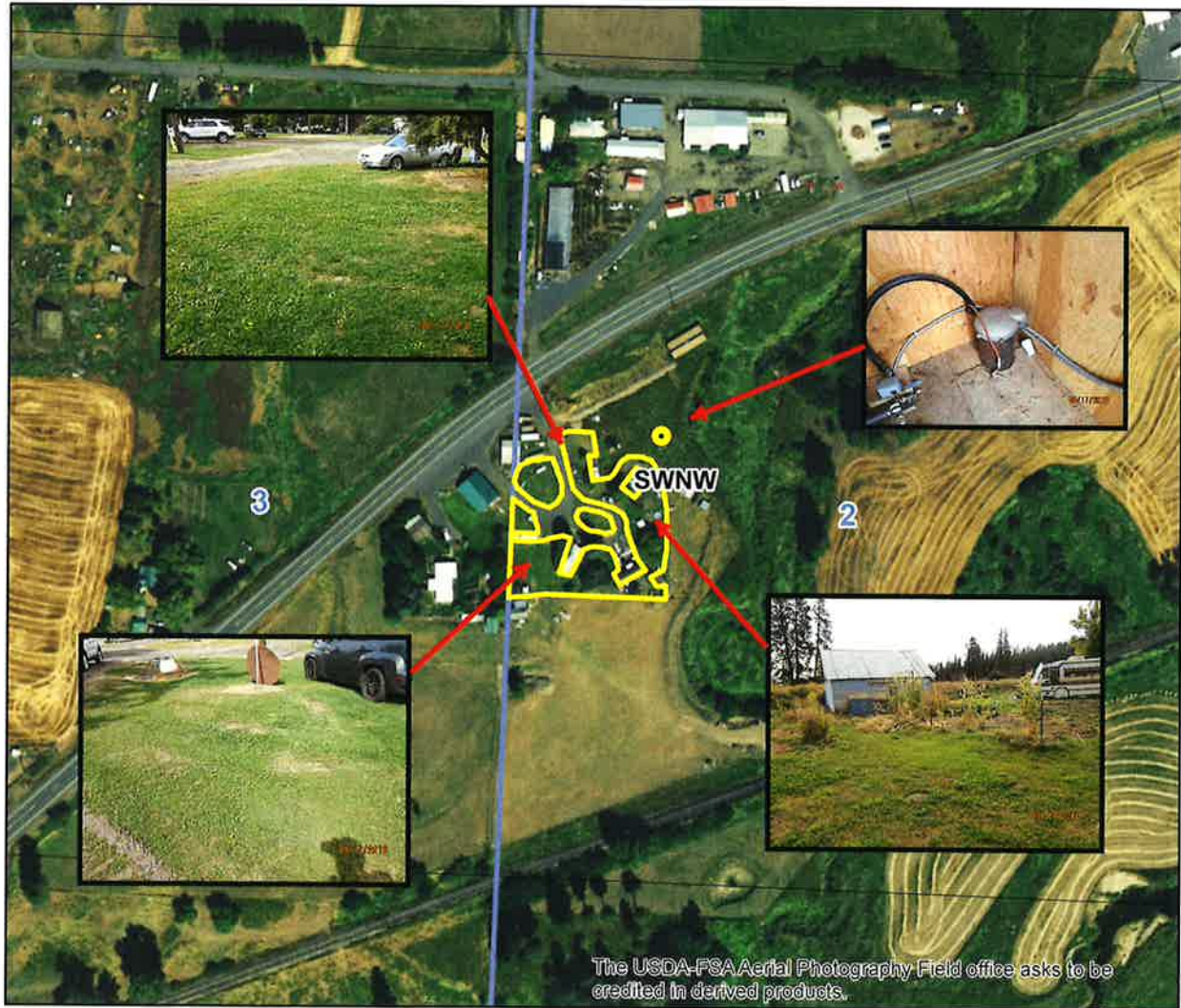


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IRRIGATION

05W

41N

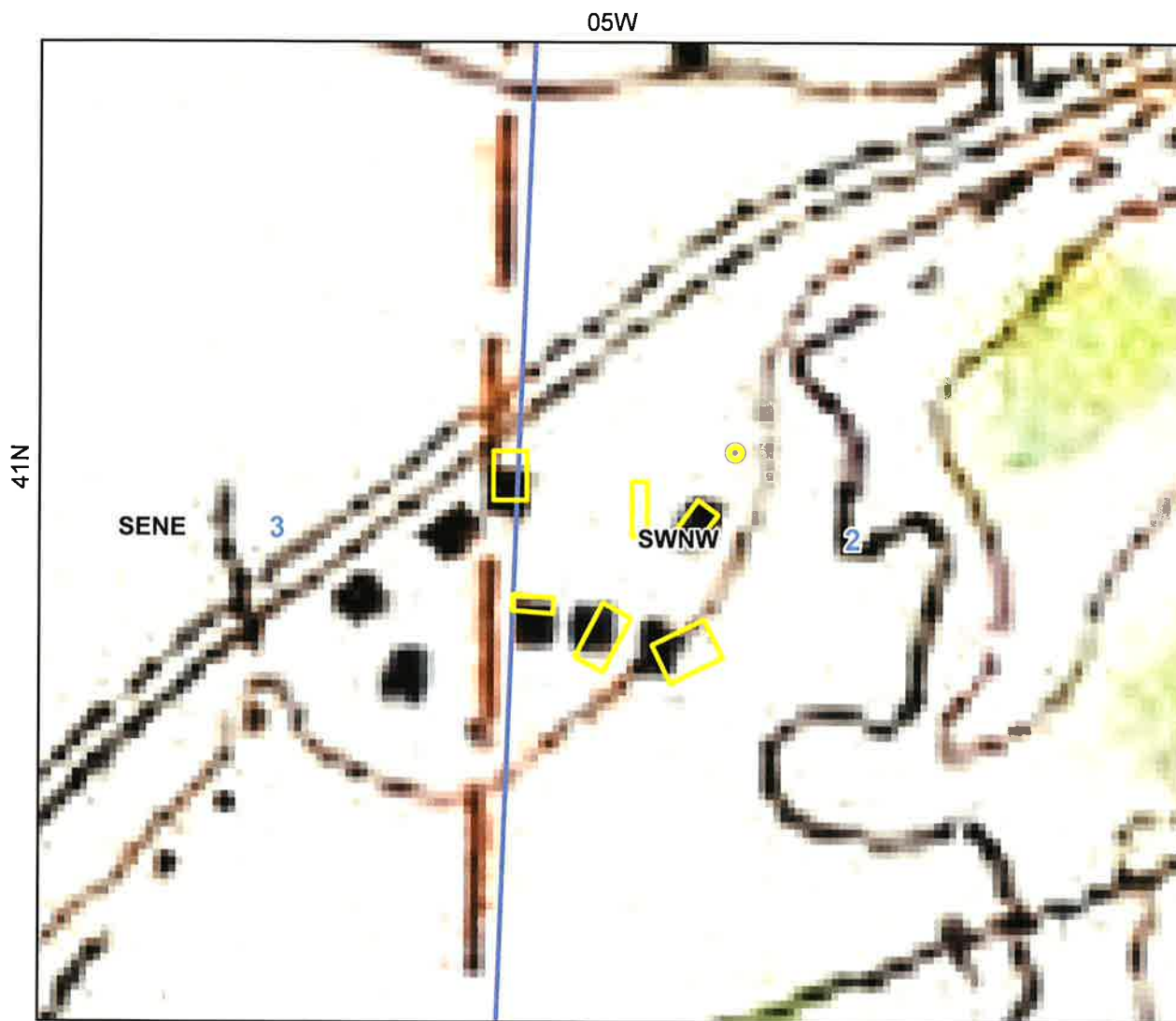


-  Point of Diversion
-  Place Of Use Boundary
-  Townships
-  PLS Sections

0 0.035 0.07 0.14 Miles



State of Idaho
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Water Right Field Exam
87-10021



- Point of Diversion
- Place Of Use Boundary
- Townships
- PLS Sections

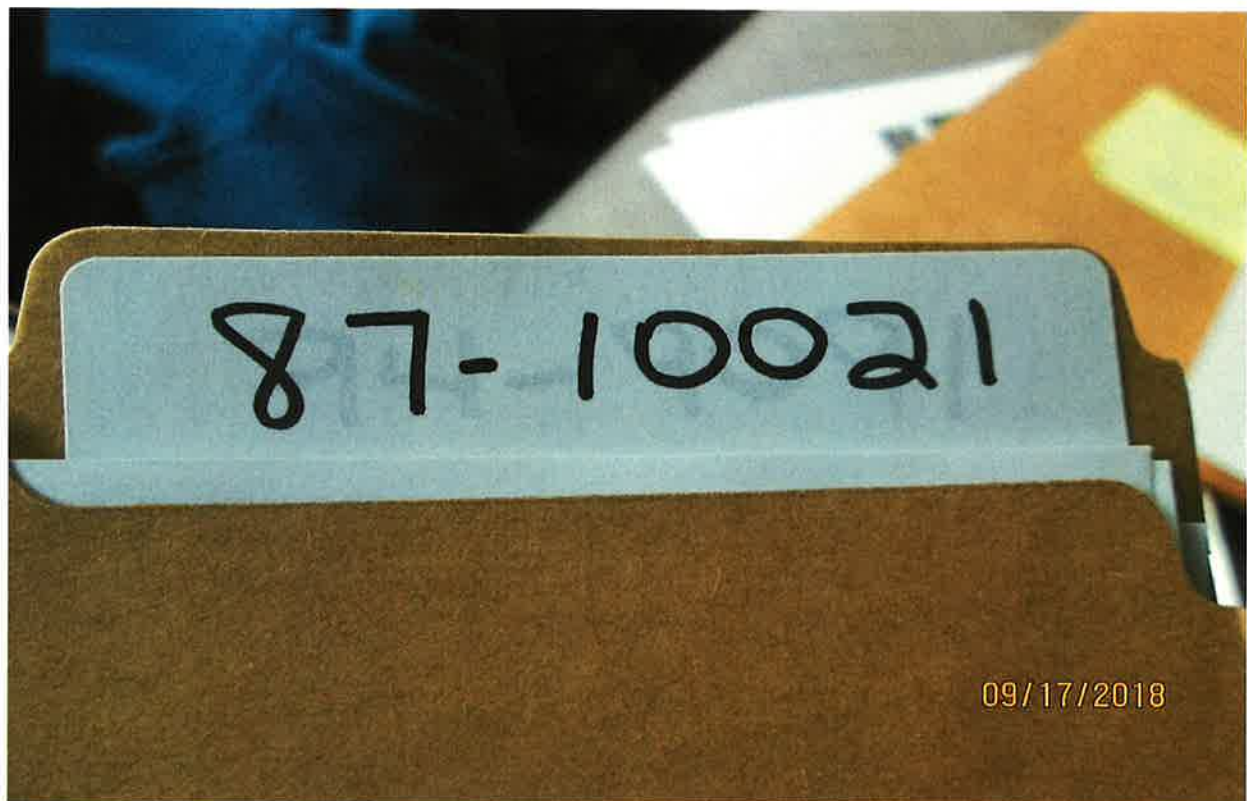
0 0.0225 0.045 0.09 Miles



Theoretical Pumping Equation for Water Right 87-10021

Theoretical pumping equation required because there was no approved section of pipe from well to pressure tank. There was 3/4hp pump that was set at 105 feet running at an estimated 40 psi.

PUMP EQUATIONS WATER RIGHT No. 87- 10021						
		HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q =	HP*8.8*Eff/H	0.75	197.517	0.8	105	40
Q = 0.027 cfs 12.0 gpm						



Well D0010901, given IDWR tag A0020028.



Well tag D0010901.



Home 1, mobile home had just been removed.



Home 2.



Home 3.



RV pad 1.



RV pad 2.



Shop with 1 bathroom.



Irrigation POU.



Irrigation POU.



28 SET THE PUMP AND RUN POLY AND CONDUIT. PULL WIRE AND MOUNT CONTROLS. WIRE AND PUT IN THE
 STOMER'S HYDRANT.
 1 CONNECT THE PRESSURE TANK TO THE POLY PIPE. WIRE IN CONTROLS, LIGHTS, AND RECEPTACLES
 P AND CHECK FOR LEAKS. TEST ALL ELECTRICAL THINGS. FOUND THAT THE GFCI WAS DEFECTIVE
 RE-WIRE THE GFCI SO THE SWITCH AND GFCI ARE ON THE SAME BOX. INSTALL A COYOTE. TEST AND

art#	Description	Quantity	Price
2	PERMIT	1.0000	0.0000
39	3/4HP 10GPM SUBMERSIBLE PUMP & MTR	1.0000	1.580000
	^Includes 5 year pump warranty		
7	1-1/4X1" BRASS BUSHING	1.0000	8.0900
	#12-10 SPLICE KIT	1.0000	4.0000
	1"X21' GALV T&C PIPE	105.0000	2.2000
	10-4 TWISTED PVC WIRE	110.0000	1.3900
	SCOTCH 33+ 3-M	1.0000	6.3000
	1" PITLESS ADAPTER	1.0000	84.0000
	1" X 3"BRASS NIPPLE	1.0000	8.0000
	1" GALVANIZED TEE	4.0000	
	1" BRASS INSERT MA	5.0000	
	1" BRASS 90 TXT	1.0000	
	1" GALV INSERT MALE ADAPTER	2.0000	
	6824 HOSE CLAMP	18.0000	
	1X3/4" GALV C.I. BUSHING	2.0000	
	3/4X2" GALV NIPPLE	2.0000	

09/17/2018

Pump invoice showing 3/4hp pump set at 105 feet.



State of Idaho

DEPARTMENT OF WATER RESOURCES

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C.L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

August 31, 2018

MELVIN C TAGGART
5472 HWY 95
POTLATCH ID 83855

RE: Permit to Appropriate Water 87-10021

Dear Permit Holder(s):

I am planning to conduct water right examinations in the vicinity of the above-referenced permit sometime in September of 2018. An examination is a necessary step in the water appropriation process. During the examination, I will verify your water uses pursuant to your permit (copy enclosed).

In order to conduct your exam as efficiently as possible, please call me within 14 days at (208) 762-2800. Please be advised that you will need to operate your system under normal conditions during the examination.

I look forward to meeting with you and working towards finalizing your permit.

Sincerely,

Adam Frederick
Senior Water Resource Agent

Enclosure(s): Permit 87-10021