

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 94-09473

Exam Date: 6/15/2017

1. Current Owner:
LAKEVIEW DEVELOPMENT WATER ASSN 2301 CROMWELL DR ST MARIES ID 83861 (208) 245-3944
2. Accompanied by: Tom & Peg Carver
Phone No: 208-245-3944
Address: 2301 Cromwell Dr St. Maries ID 83861
Relationship to Permit Holder: President and homeowner
3. **SOURCE:**
GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 94-9116 & 94-9127
2. Other water rights with the same point-of-diversion: None

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

GROUND WATER L6 (SE¼NE¼) Sec. 32, Twp 47N, Rge 03W, B.M. BENEWAH County

Method of Determination: Maps and GPS. POD located at -116° 44.142, 47° 22.847 (A0015429)

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	
47N	03W	32				X L 6													

Method of Determination: Google Earth and Arcmap.

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.

X

Aerial Photo Attached (required for irrigation of 10+ acres).

X

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
94-72-N-15	GOULDS	1	12G010GS10412L		

*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 CALCULATIONSX Additional Computation Sheets Attached

Measured Method: Unable to perform flow measurement because system pumped directly into storage tanks. Theoretical pumping equation attached and estimates flow rate of 12 gpm or 0.03 cfs.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$$

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

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

2. Volume Calculations for Other Uses: Domestic use for 6 homes with irrigation up to ½ acre per home.

$$6 \text{ homes} \times 1.2 \text{ acre feet} = 7.2 \text{ acre feet}$$

G. NARRATIVE/REMARKS/COMMENTS

Field exam with Peg & Tom Carver showed an old 1972 well serving 6 homes. I was unable to perform flow measurement because well was pumped directly into three 1,500 gallon storage tanks. The Carver's supplied the pump invoice showing the pump was placed at 160 feet. Theoretical pumping equation was used to estimate the flow rate was equal to 12 gpm or 0.03 cfs. Applicants did not think the well produced more than 15 gpm based upon how long it would take to fill the storage tanks. From the storage tanks, the water line went down the hill and was distributed to the 6 homes.

All 6 homes were using water for in home use and some irrigation. Two homes were already covered by individual wells and had water rights. 94-9116 and 94-9127 were claimed during the NIA and both were decreed in the 94 basin adjudication. Applicants said they used their personal wells as long as they would provide and then would switch to community system. Discussion between Northern Region and the State Office determined these rights should be overlapped without putting a limitation on the decreed rights. It was decided we should use condition X35 and use it two times when overlapping this right and the two decreed rights. The condition states "Rights X and Y when combined shall not exceed 13,000 gallons per day". Partial decree conditions are generally vague and only limit domestic homes to 13,000 gallons per day. We did not want to say that when all rights are combined they cannot exceed 1.2 acre feet per home. This right has a limitation of 1.2 acre feet per home, but does not limit the older decreed rights.

License will be issued for 0.03 cfs with an annual volume of 7.2 acre feet (6 homes X 1.2 acre feet). Conditions will include X04 limiting the domestic use to 6 homes and condition 070 will limit the use to ½ acre of irrigation per home. As mentioned above, there are two X35 conditions to cover the overlap with the two domestic rights.

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	7.2 AF
	<u>Totals:</u>	0.030 CFS	7.20 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

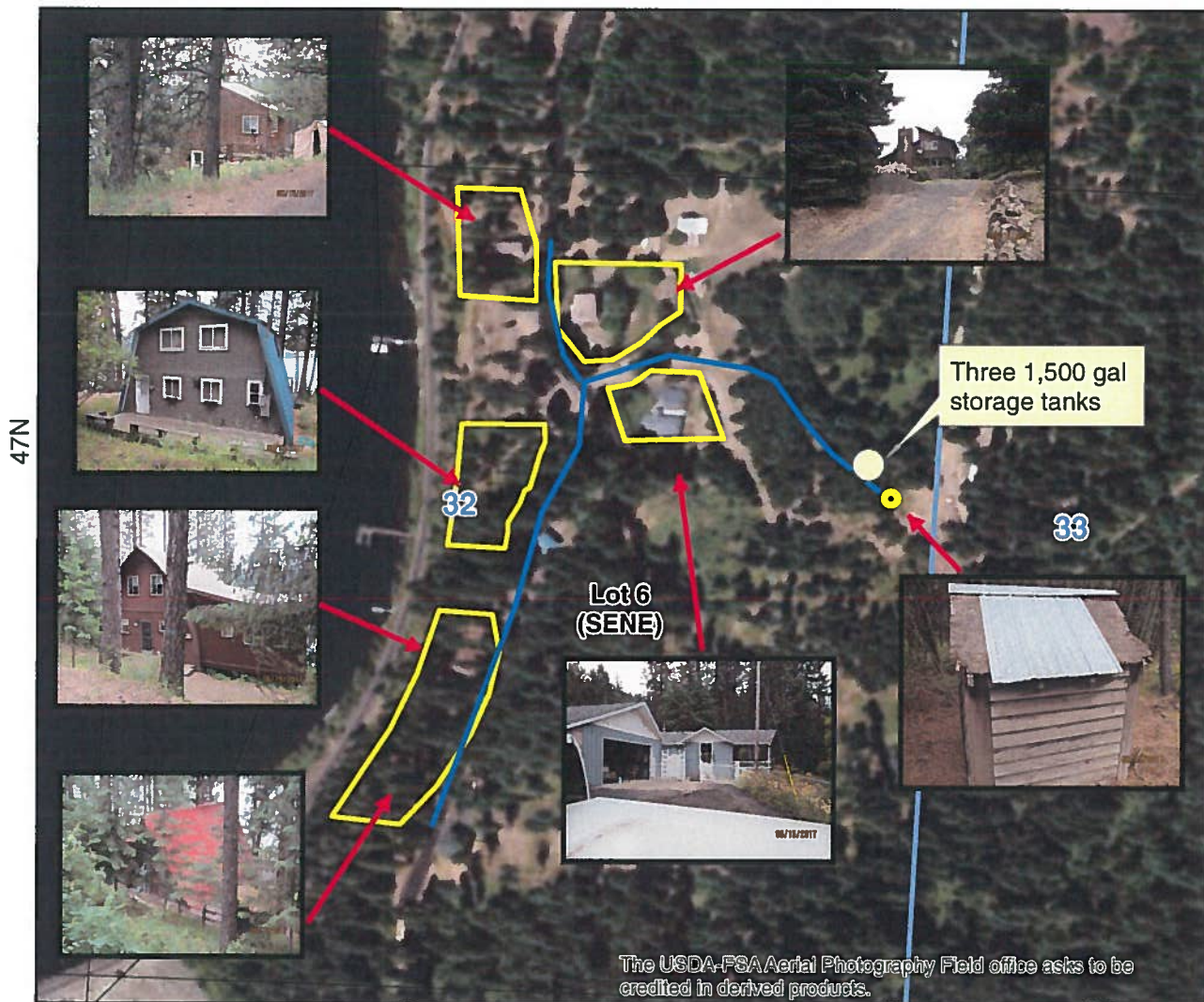
Field Examiner's Name Adam Fink Date 12-5-2017

Reviewer Douglas Jones P.E. Date 12/14/17

State of Idaho
Department of Water Resources
Attachment to Field Exam
94-9473

DOMESTIC / SYSTEM DIAGRAM

03W



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

0 0.035 0.07 0.14 Miles



THEORETICAL PUMPING EQUATION FOR WATER RIGHT 94-9473

Applicant provided pump installation bill that showed a 1hp pump was installed 160 feet down in well and was running at 45psi.

PUMP EQUATIONS WATER RIGHT No. 94-9473						
		HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q =	HP*8.8*Eff/H	1	264.0816	0.8	160	45
Q =	0.027 cfs		12.0 gpm			

Frederick, Adam

From: Peg C <pc60atsm@gmail.com>
Sent: Friday, June 16, 2017 8:41 AM
To: Frederick, Adam
Cc: Carver, Tom
Subject: Pump Information for Permit No. 94-9473
Attachments: Pump Information.pdf

Good morning Adam and good seeing you yesterday.

Attached is a copy of the invoice for the pump associated with the above permit.
The pump is 1 hp, pumps 10 gpm & was installed in 2002.

Should you need anything further, just let us know.

Thanks again.....Peg & Tom Carver



PAGE: 1

582 West Hayden Avenue • Hayden Lake, Idaho 83835
 (208) 772-4004 Office • (800) 772-4901 Toll Free • (208) 772-4892 Fax • (509) 624-4508

***** INVOICE *****

INVOICE NUMBER: 0005170-IN
 INVOICE DATE: 07/31/02

SALESPERSON: LP
 TAX CODE: ID

MAR9171
 WHEELER, MARVIN
 HC 01 BOX 43E
 Harrison ID 83833

SERVICE CALL - NO WATER

DUE ON RECEIPT
 SVC CHGS AFTER 30 DAYS

ITEM NO.	UNIT	QUANTITY	PRICE	DISCOUNT	AMOUNT
WORK PERFORMED ON 7/29/02					
22P801TC	FOOT	160.00	1.59	.00%	254.40
PVC 80 1" T&C pipe					
59PR141000	EACH	170.00	.05	.00%	8.50
Poly Rope 1/4"x1000'					
41SW124	FOOT	170.00	.42	.00%	71.40
12-4 Submersible Pump Wire					
12GO10GS10412L	EACH	1.00	777.02	.00%	777.02
Goulds pump 10 gpm 1 hp					
13GOSURANCE	EACH	1.00	35.00	.00%	35.00
Goulds prosurance 1/2-11/2 hp					
31GB1141	EACH	1.00	3.90	.00%	3.90
Galv 11/4x1" Bushing					
60SPK4	EACH	1.00	4.63	.00%	4.63
#14-12-10 4 Wire Splice Kit					
60PL4240	EACH	0.50	8.13	.00%	4.07
Plymouth Vinyl Tape 3/4"x66'					
63FRCB10	EACH	1.00	64.00	.00%	64.00
1HP Franklin Control Box					
56WCP6	EACH	1.00	45.82	.00%	45.82
6" Well Cap, personalized					
31GT1	EACH	1.00	4.60	.00%	4.60
Galv 1" Tee					
32GN1C	EACH	1.00	.98	.00%	.98
Galv Nipple 1"xClose					
31GCA1	EACH	1.00	2.53	.00%	2.53
Galv cap 1"					

CONTINUED

ID Contractors #448 • ID Electrical Cont #3139 • WA Contractors #H20WES1101DW • WA Electrical Cont #H20WES1101DP

RECEIVED

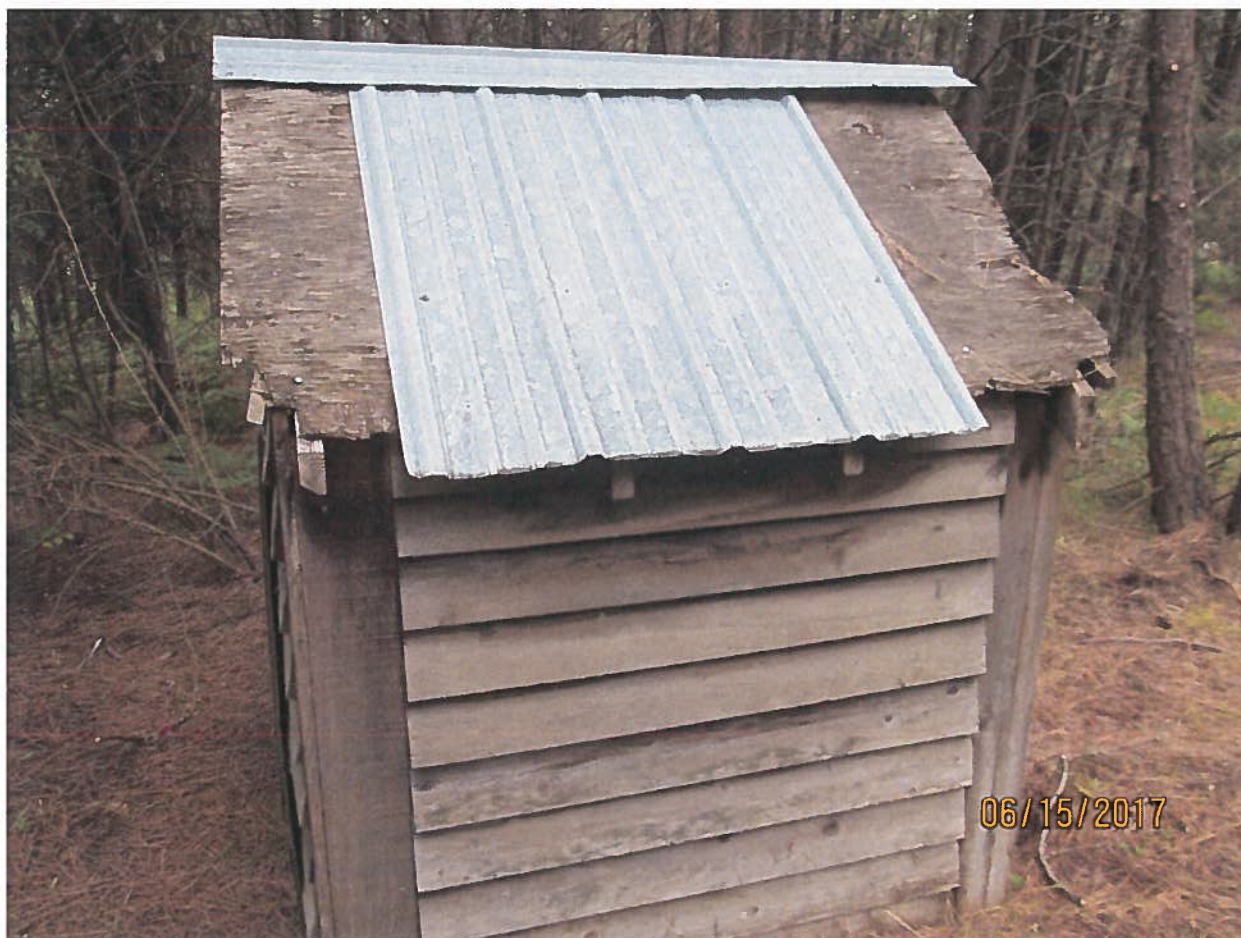
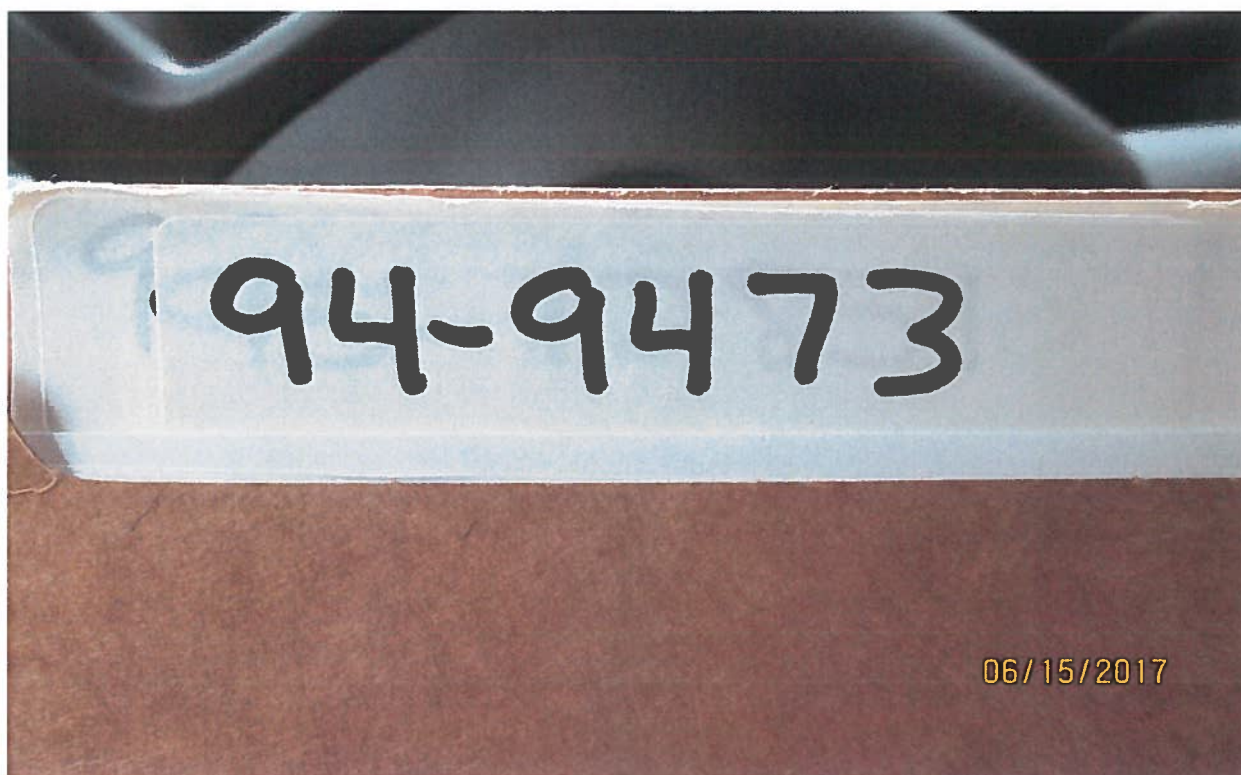
JUN 16 2017

IDWR / NORTH

WELL DRILLER'S REPORT

State law requires that this report be filed with the State Reclamation Engineer within 30 days after completion or abandonment of the well.

[illegible]



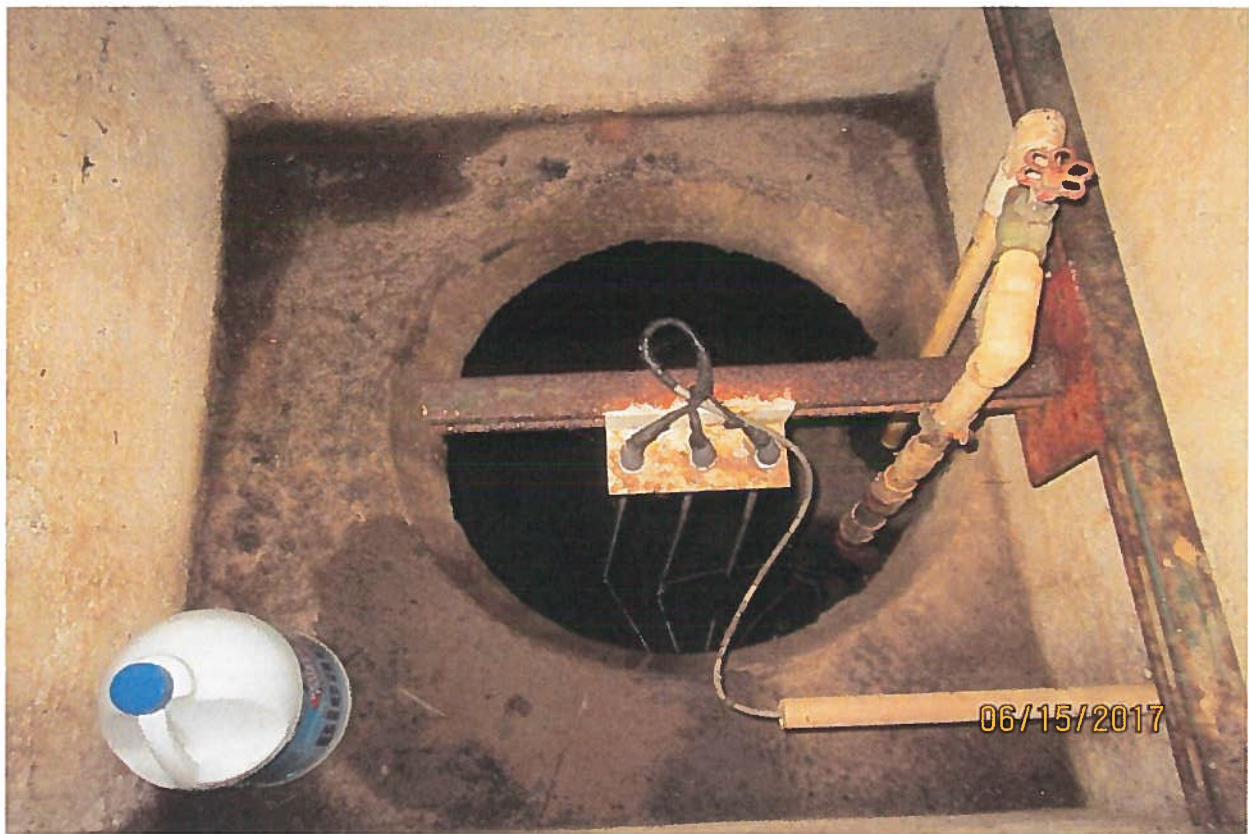
Well under locked well house, given IDWR tag A0015429.



Storage tanks 1 and 2. Each 1,500 gallons.



Storage tank 3, also holds 1,500 gallons.



Inside of one of the storage tanks.



Home 1 in Lot 4 of Upper Lake Tracts.



Home 2 in Lot 2 of Upper Lake Tracts.



Home 3 in Lot 1 of Upper Lake Tracts.



Home 4 in Lot 6 of Upper Lake Tracts.



Home 5 in Lot 7 of Upper Lake Tracts.



Home 6 in Lot 8 of Upper Lake Tracts.