

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 95-10059

Exam Date: 10-10-2013

1. Current Owner: RED FIR WATER ASSN INC
9789 E HWY 54
ATHOL ID 83801
(208)683-1908
2. Accompanied by: GEORGE WILLS
Phone No: 208-683-1908
Address: 9789 E HWY 54 ATHOL ID 83801
Relationship to Permit Holder:

3. SOURCETRIBUTARY

GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: NONE
2. Other water rights with the same point of diversion: NONE

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

GROUND WATER SW1/4SW1/4 Sec. 12, Twp 53N, Rge 03W, B.M. KOOTENAI County

Method of Determination: GPS

2.

PLACE OF USE: DOMESTIC

Twp Rge Sec	NE				NW				SW				SE				Totals
	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	
53N 03W 11																X	
53N 03W 12									X	X							

PLACE OF USE: IRRIGATION

Twp Rge Sec	NE				NW				SW				SE				Totals
	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	
53N 03W 11																1.0	1.0
53N 03W 12									2.0	.5							2.5

Total Acres: 3.5

Method of Determination:

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**

A0003225

*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

1.

PUMP EQUATIONS WATER RIGHT No. 95-10059						
		HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q =	HP*8.8*Eff/H	5	520.952381	0.8	440	35
Q =	0.068 cfs 30.4 gpm					

E. FLOW CALCULATIONS

____ Additional Computation Sheets Attached

This system has a 2 hp buster pump.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 3.5 \times 3 \text{ AF} = 10.5 \text{ AF}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.07 \text{ CFS} \times 214 \text{ DAYS} \times 1.9835 = 29.7 \text{ AF}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 10.5 \text{ AF}$$

2. Volume Calculations for Other Uses: 7 HOMES X 0.6 AF= 4.2 AF

G. NARRATIVE/REMARKS/COMMENTS

Have conditions of permit approval been met? ☒ 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	0.070 CFS	4.20 AF
IRRIGATION	04/01 to 10/31	0.070 CFS	10.50 AF
<u>Totals:</u>		0.070 CFS	14.70 AF

2. Recommended Amendments

☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None

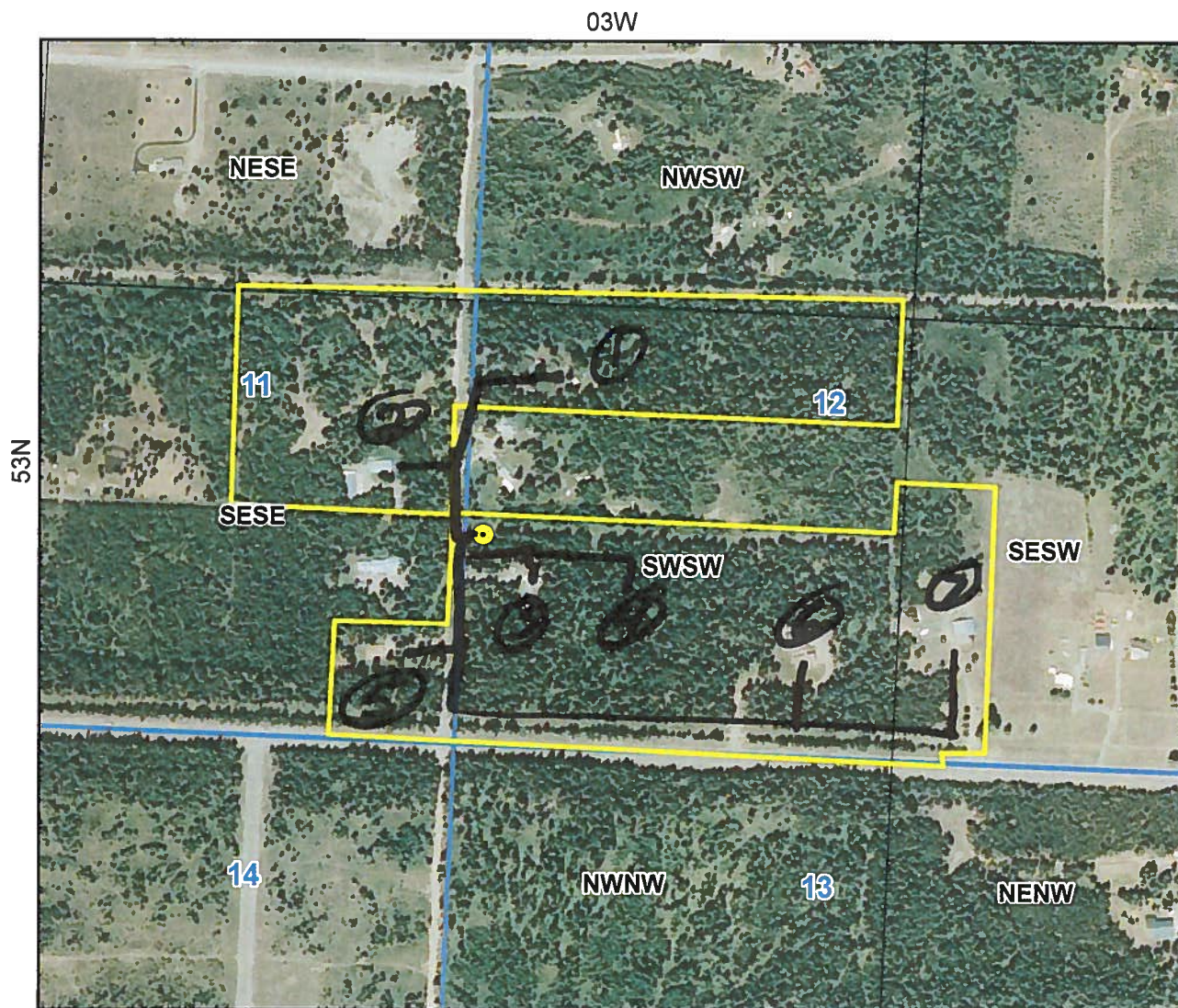
☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

I. AUTHENTICATION

Field Examiner's Name Eric M. [Signature] Date 12-4-2013

Reviewer Keith L. [Signature] Date 12-19-2013

State of Idaho
Department of Water Resources
Water Right License
95-10059



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

0 0.05 0.1 0.2 Miles





HOME #3.JPG



HOME #4.JPG



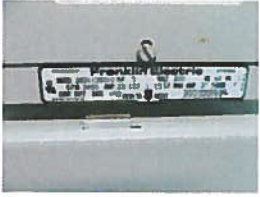
HOME #5.JPG



LOT #1 .JPG



HOME #6.JPG



PUMP TAG .JPG



HOME #1.JPG



PUMP HOUSE.JPG



POD.JPG



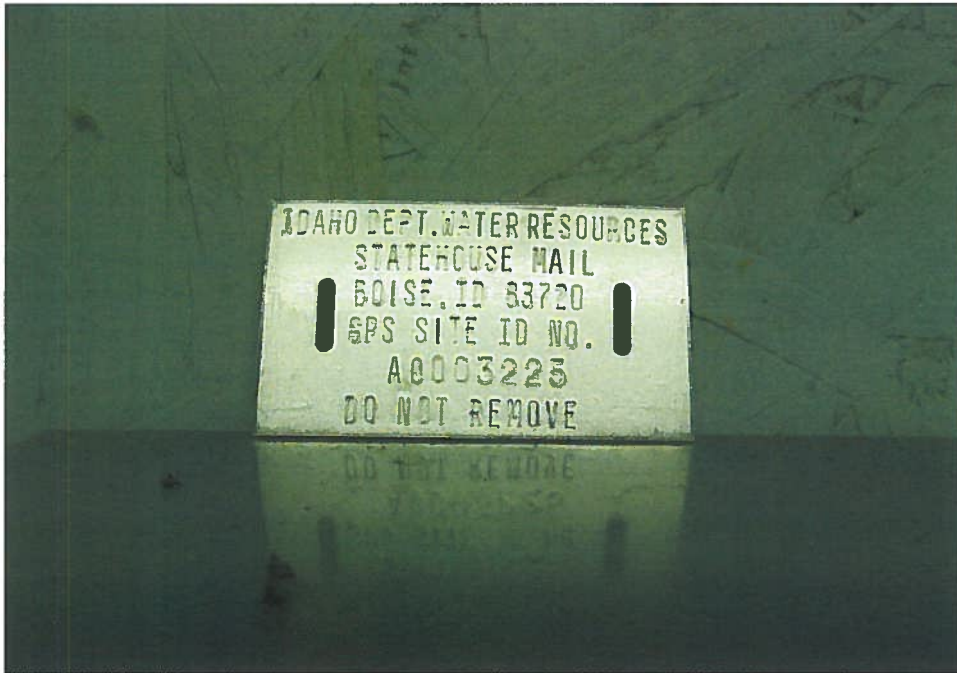
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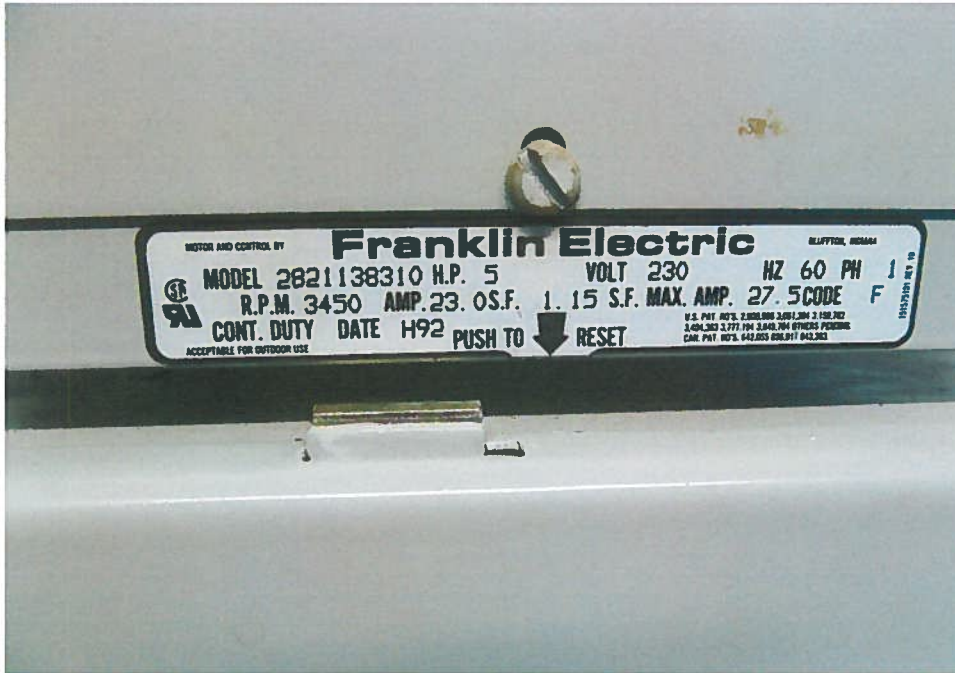


A TAG.JPG



HOME #2.JPG







WELL DRILLER'S REPORT

State law requires that this report be filed with the Director, Department of Water Resources within 30 days after the completion or abandonment of the well.

[illegible]

USE ADDITIONAL SHEETS IF NECESSARY - FORWARD THE WHITE COPY TO THE DEPARTMENT

Well ID 273701
 Permit ID 753478