

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 94-7402

Exam Date: 7/31/2015

1. Current Owner: CLAUDIA CHILDRESS
60 BEAVER CREEK RD
WALLACE ID 83873
(208)682-3052
2. Accompanied by: Claudia Childress

3. SOURCE**TRIBUTARY**

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

GROUND WATER SE1/4NW1/4 Sec. 32, Twp 50N, Rge 04E, B.M. SHOSHONE County

Method of Determination: GPS and maps. POD location at 115° 58.769, 47° 38.264

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	
50N	04E	32								X				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	
50N	04E	32								1.0				1.0					2.0

Total Acres: 2

Method of Determination: GPS and maps.

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.

<u>Well or Diversion</u> <u>ID No.*</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Pump Serial No. or Discharge</u> <u>Size</u>
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D0041469	FRANKLIN	3			
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*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

1.

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

2. Measurements:

E. FLOW CALCULATIONS

☐ Additional Computation Sheets Attached

Measured Method: APPLICANT BROKE FROST FREE WHILE LIFTING UP TO PERFORM 5 GALLON BUCKET TEST. THEORETICAL PUMPING EQUATION ESTIMATES FLOW AT 42 GPM OR 0.09 CFS.

$$3 \text{ HP} \times 8.8 \times 0.8 / 135 + (40 \text{ PSI} \times 2.3087) = 0.03 \text{ CFS} \quad 0.093 \text{ cfs}$$

F. VOLUME CALCULATIONS**1. Volume Calculations for Irrigation:**

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 2 \text{ AC} \times 3 \text{ AF} = 6 \text{ AF}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.06 \times 214 \times 1.9835 = 25.5 \text{ AF}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{D.R.} = 6 \text{ AF}$$

2. Volume Calculations for Other Uses: DOMESTIC USE IN 9 RV SITES. AVG OF 4 PEOPLE PER RV SITE

$$4 \times 9 \text{ RV SITES} = 36$$

$$36 \times 50 \text{ GPD AVG} = 1,800 \text{ GPD}$$

$$1,800 \times 365 \text{ DAYS} = 657,000 \text{ GPY}$$

$$657,000 / 325,850 \text{ GAL/AF} = 2.0 \text{ AF}$$

G. NARRATIVE/REMARKS/COMMENTS

FIELD EXAM SHOWED A WELL WITH 3 HP PUMP THAT SUPPLIED 9 RV SITES WITH IRRIGATION OF 2 ACRES. APPLICANT WAS TURNING ON FROST FREE SPICKET WHEN SOMETHING BROKE SO IDWR STAFF WAS UNABLE TO GET 5 GALLON BUCKET TEST. MEASUREMENT OF DIVERSION RATE COVERED UNDER IDAPA RULES 37.03.02.035.01.r. THEORETICAL PUMPING EQUATION ESTIMATES FLOW AT 42 GPM OR 0.09 CFS. LICENSE WILL BE ISSUED FOR 50 GPD PER PERSON WITH AVERAGE OF 4 PEOPLE PER RV SITE. APPLICANT DOES HAVE PEOPLE THAT USE RV SITES DURING WINTER TIME FOR SNOW MOBILING. 4 PEOPLE X 9 RV SITES X 50 GPD X 365 DAYS / 325,850 GAL/AF = 2 AF. IRRIGATION OF 2 ACRES WITH AN ANNUAL VOLUME OF 6 AF WILL BE GIVEN.

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	0.090 CFS	2.00 AF
IRRIGATION	04/01 to 10/31	0.060 CFS	6.00 AF
<u>Totals:</u>		0.090 CFS	8.00 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 Adam Fendell Date 1-8-2016

Reviewer [Signature] Date 1-11-2016

THEORETICAL PUMPING EQUATION FOR WATER RIGHT 94-7402

PUMP EQUATIONS WATER RIGHT						
No.			94-7402			
		HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q =	$\frac{HP \cdot 8.8 \cdot \text{Eff}}{H}$	3	227.517	0.8	135	40
Q =		0.093 cfs	41.7 gpm			



1) Theoretical Q to lift water from Pt. A to Pt. B and to charge the system at 40 psi.

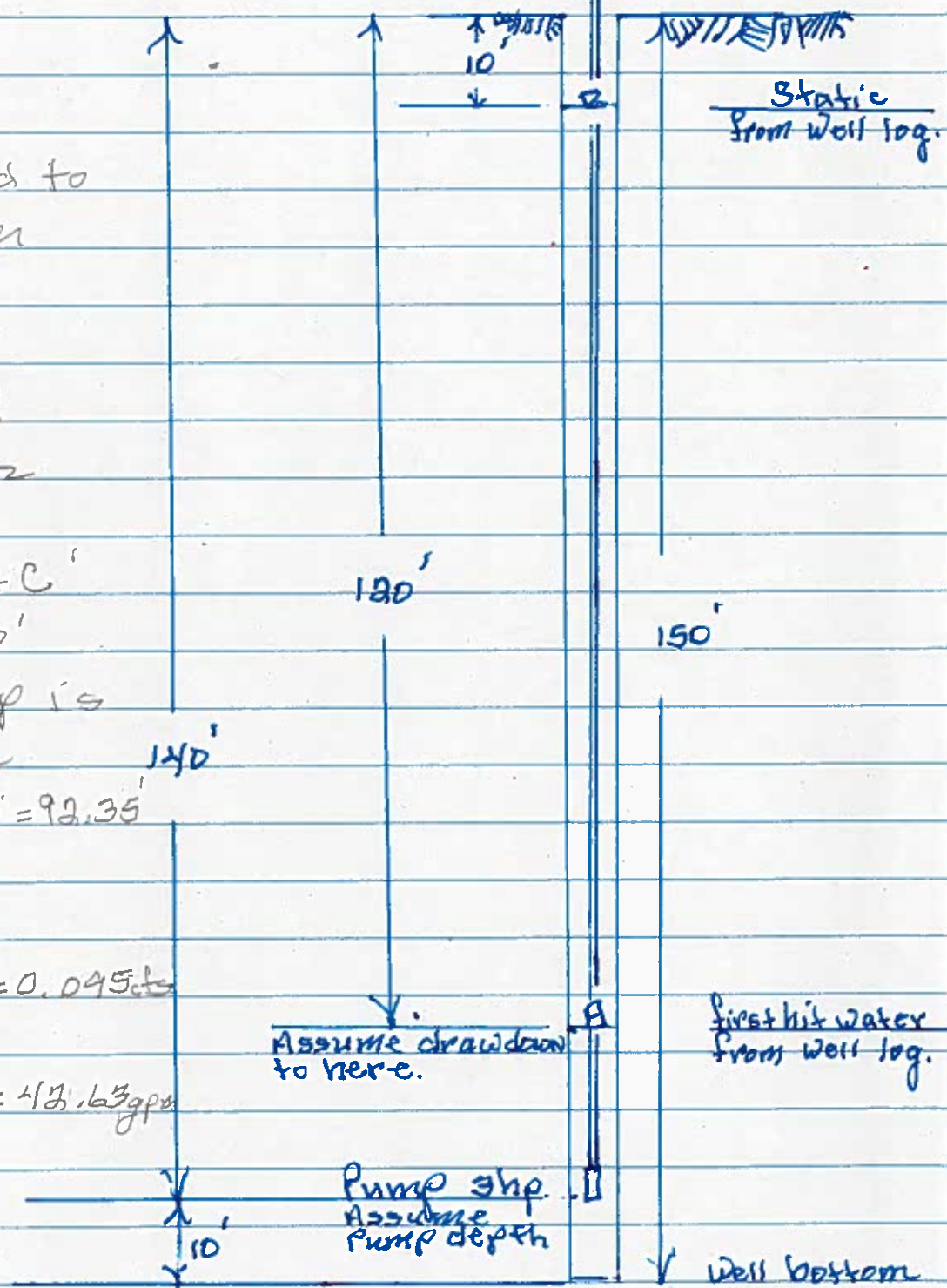
$$Q = (hp)(8.8)(eff)$$

$$\text{Total Head} = h_1 + h_2$$

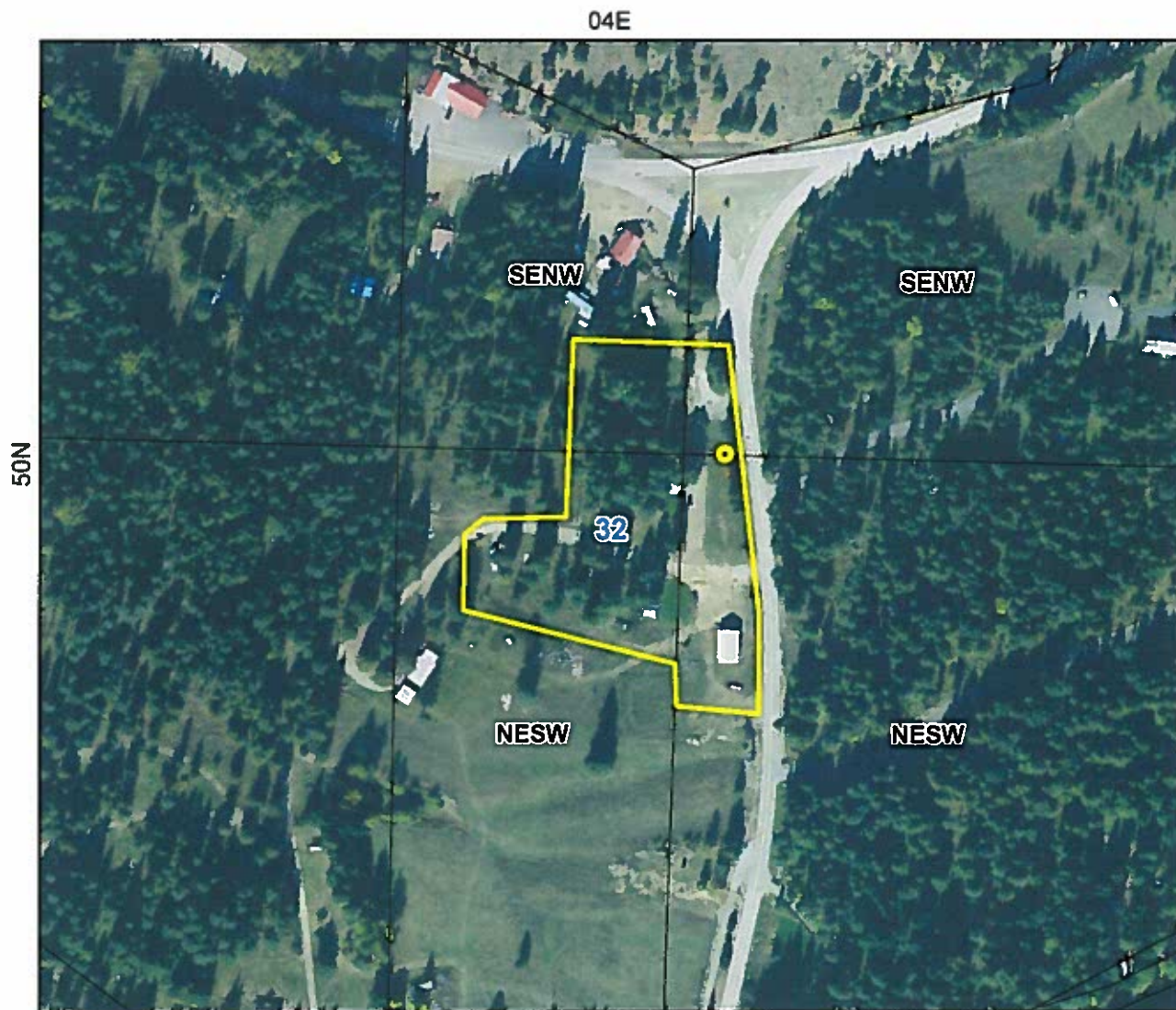
$$h_1 = \text{pt A to pt B} + \text{pt C} \\ = 120' + 10' = 130'$$

$$h_2 = \text{pressure pump is supplying to the system, } 40 \text{ psi} = 92.35'$$

$$Q = \frac{(3)(8.8)(0.8)}{130' + 92.35'} = 0.045 \text{ cfs} \\ = 12.63 \text{ gpm}$$



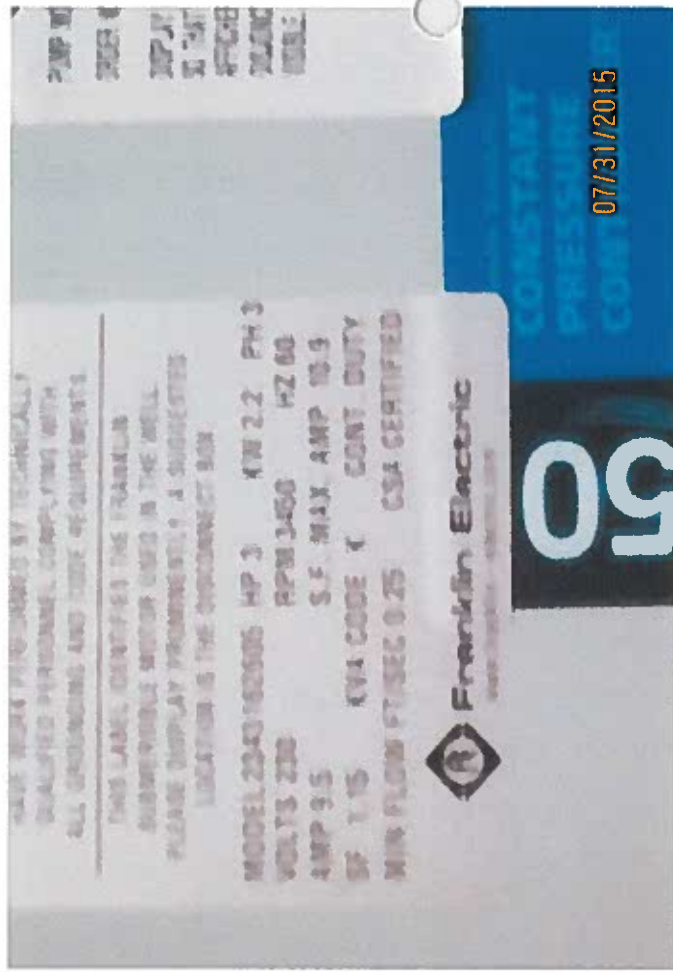
State of Idaho
Department of Water Resources
Water Right License
94-7402



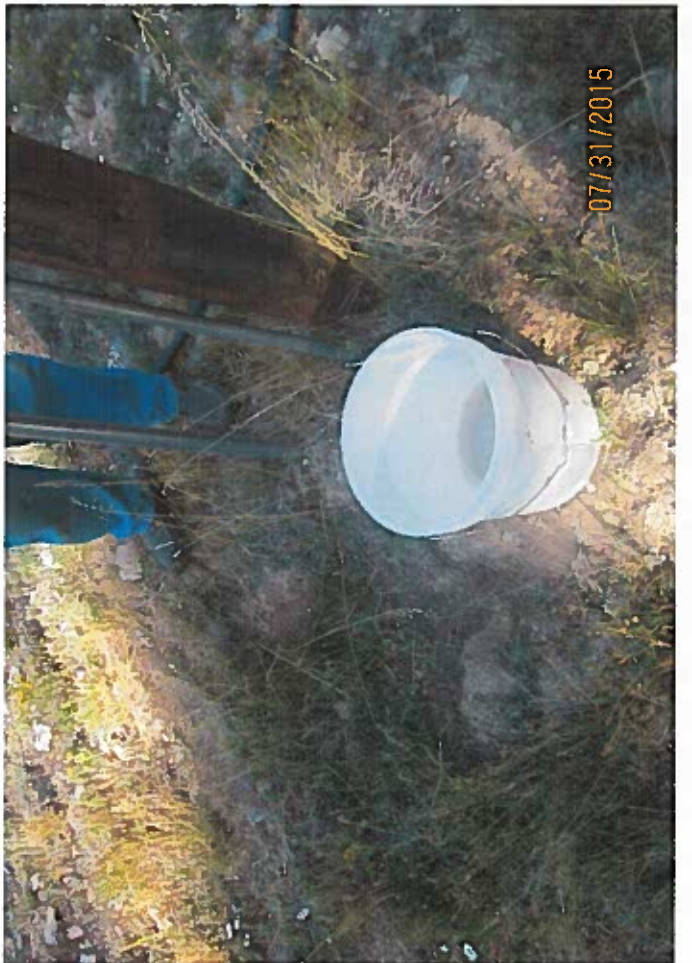
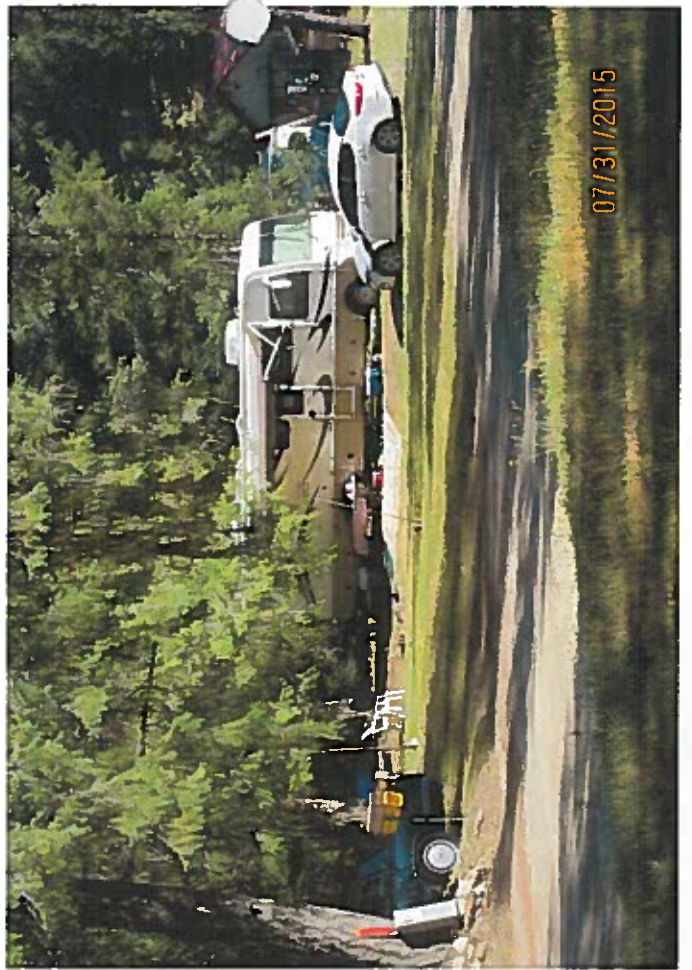
-  Point of Diversion
-  Place Of Use Boundary
-  Townships
-  PLS Sections

0 0.035 0.07 0.14 Miles

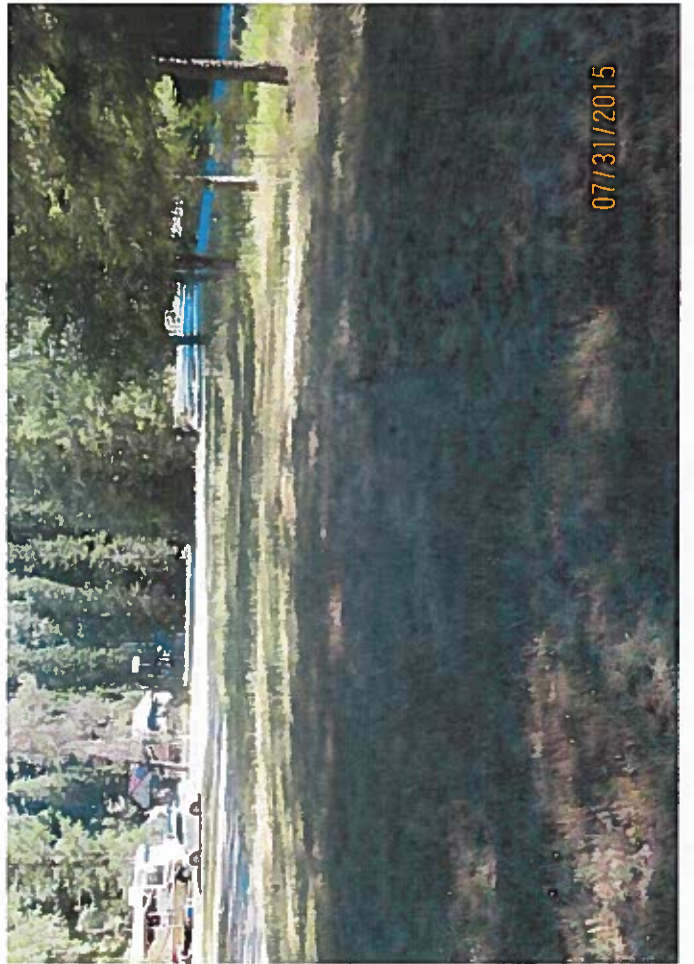
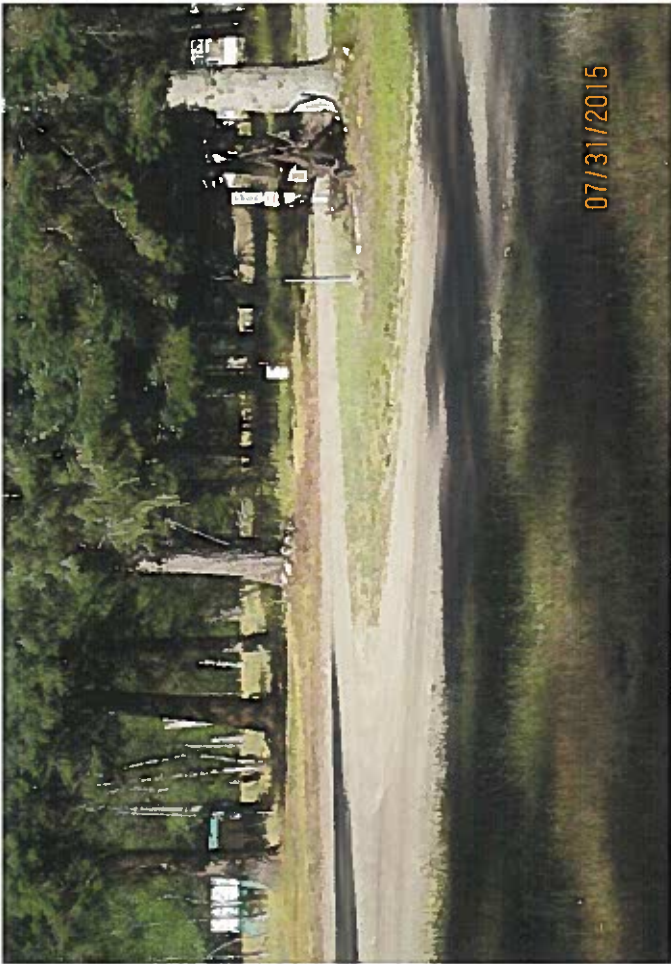
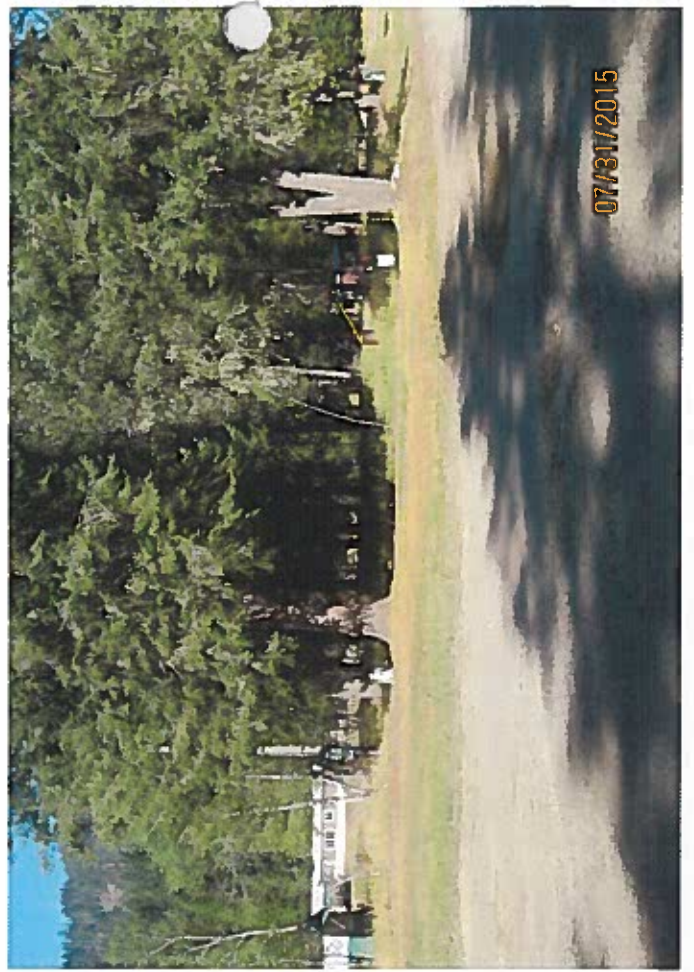
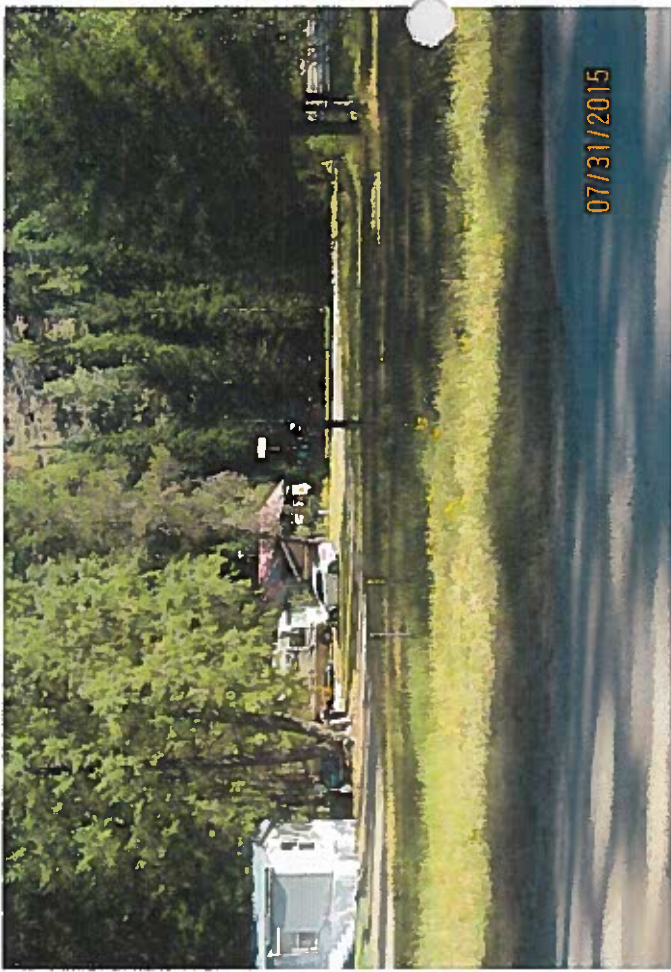




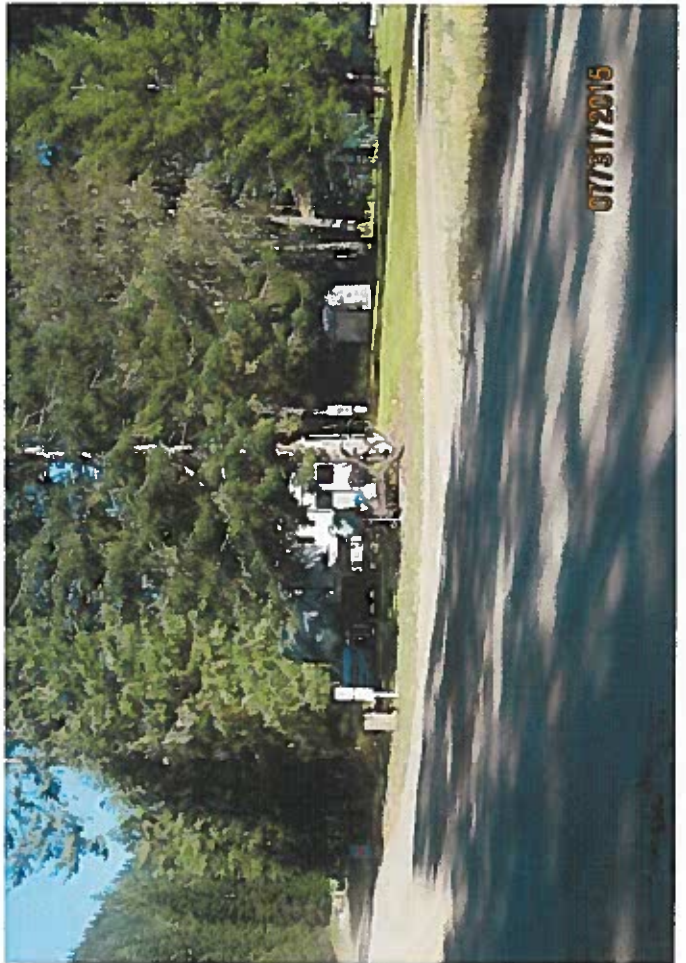
94-7402.



94-7402



94-7462



94-7400