

A. GENERAL INFORMATION

Exam Date: 7/2/2015

1. Current Owner: GRANT FOREST
PO BOX 1405
COEUR D ALENE ID 83816
(208) 661-1095

2. Accompanied by: Grant Forest

- ## 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:

COEUR D'ALENE LAKE L2 SE1/4NW1/4 Sec. 35, Twp 50N, Rge 03W, B.M. KOOTENAI County

COEUR D'ALENE LAKE L2 SE1/4NW1/4 Sec. 35, Twp 50N, Rge 03W, B.M. KOOTENAI County

Method of Determination: GPS and maps. POD location at 47° 38.188, 116° 40.203 (A0015413)

- 2.

PLACE OF USE: IRRIGATION

[illegible]

Total Acres: 4.4

PLACE OF USE: FIRE PROTECTION

Twp	Rge	Sec	NE				NW				SW				SE				
			<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>	<u>Totals</u>
50N	03W	35							X										
								L	2										

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.

<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>
	GRUNDFOS	150			
	GRUNDFOS	20			

*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: UNABLE TO PERFORM FLOW MEASUREMENT BECAUSE YOU COULD NOT HAVE OPEN FIRE HYDRANT ON MAJOR ROAD. FIRE PROTECTION THEORETICAL PUMPING EQUATION ESTIMATES (150 HP)(8.8)(0.8) / 100 + (40 X 2.3087) = 5.4 CFS. IRRIGATION THEORETICAL PUMPING EQUATION ESTIMATES (20 HP)(8.8)(0.8) / 100 + (35 X 2.3087) = 0.78 CFS.

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

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 4.4 \text{ AC} \times 3 \text{ AF} = 13.2 \text{ AF}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.13 \times 246 \times 1.9835 = 63.4 \text{ AF}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 13.2 \text{ AF}$$

2. Volume Calculations for Other Uses: NO VOLUME FOR FIRE PROTECTION**G. NARRATIVE/REMARKS/COMMENTS**

FIELD EXAM SHOWED TWO SEPERATE PUMPS, 150 HP FOR FIRE PROTECTION AND 20 HP FOR IRRIGATION. APPLICANTS SYSTEM DID NOT WORK PROPERLY WITH 1 POD TO TRY TO RUN IRRIGATION AND FIRE PROTECTION. APPLICANT HAS 2 SEPERATE PODS FOR EACH SYSTEM NOW, AMENDMENT TO BE DONE AT LICENSING. UNABLE TO PERFORM FLOW MEASURMENT BECUASE UNABLE TO HAVE FIRE HYDRANT RUNNING ON MAJOR ROAD. THEORETICAL PUMPING EQUATION ESTIMATES FLOW FOR FIRE PROTECTION SYSTEM AT 5.5 CFS OR 2465 GPM. THEORETICAL PUMPING EQUATION ESTIMATES FLOW FOR IRRIGATION SYSTEM AT 0.78 CFS OR 350 GPM. APPLICANT WAS ONLY IRRIGATING 4.4 ACRES SO WILL BE GIVEN DIVERSION RATE OF 0.13 CFS WITH ANNUAL VOLUME OF 13.2 AF.

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>
IRRIGATION	03/15 to 11/15	0.130 CFS	13.20 AF
FIRE PROTECTION	01/01 to 12/31	2.000 CFS	
<u>Totals:</u>		2.000 CFS	13.20 AF

2. Recommended Amendments

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

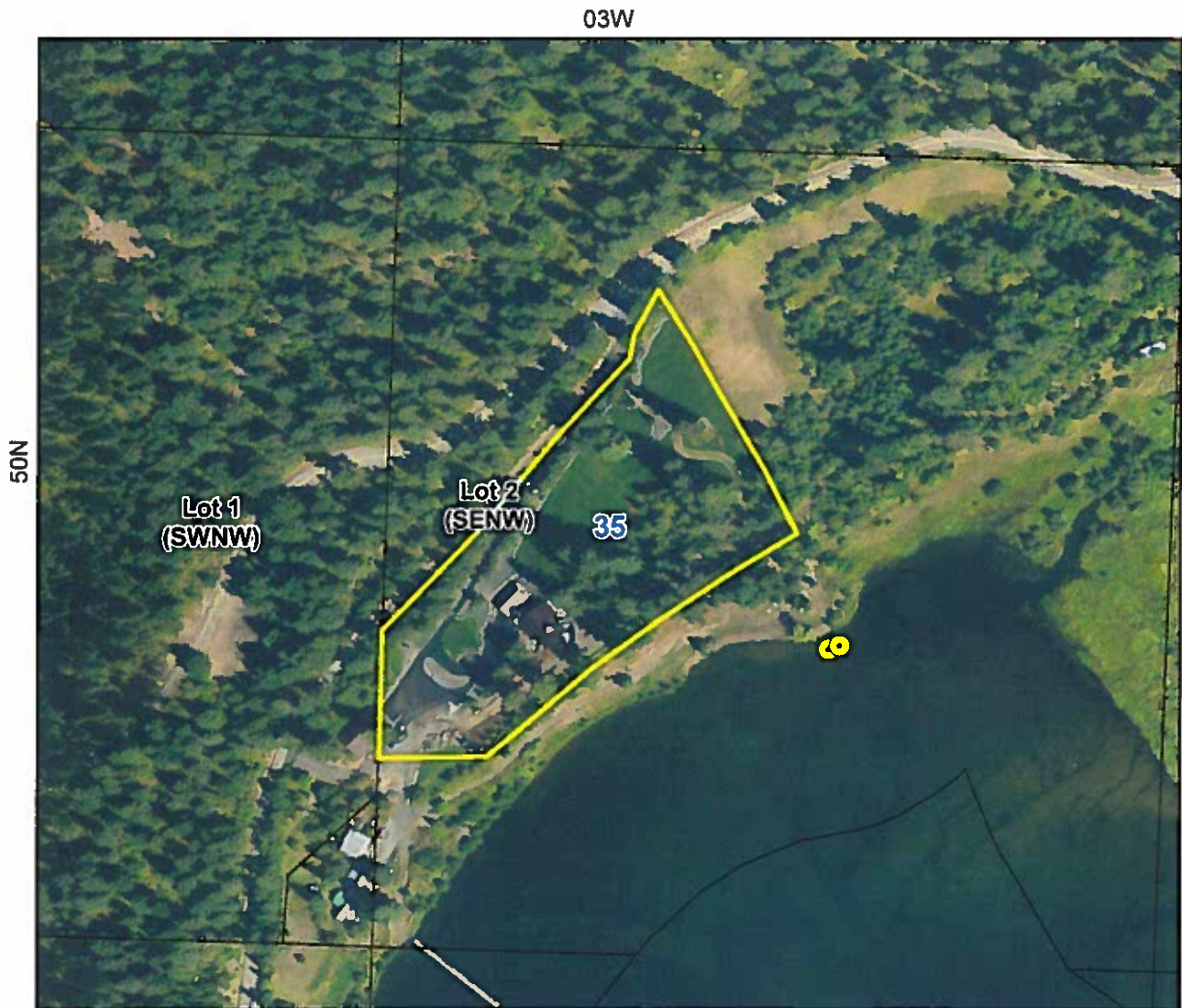
☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☒ Other

I. AUTHENTICATION

Field Examiner's Name John Furdait Date 1-6-16

Reviewer [Signature] Date 1-6-2016

State of Idaho
Department of Water Resources
Water Right License
95-11493



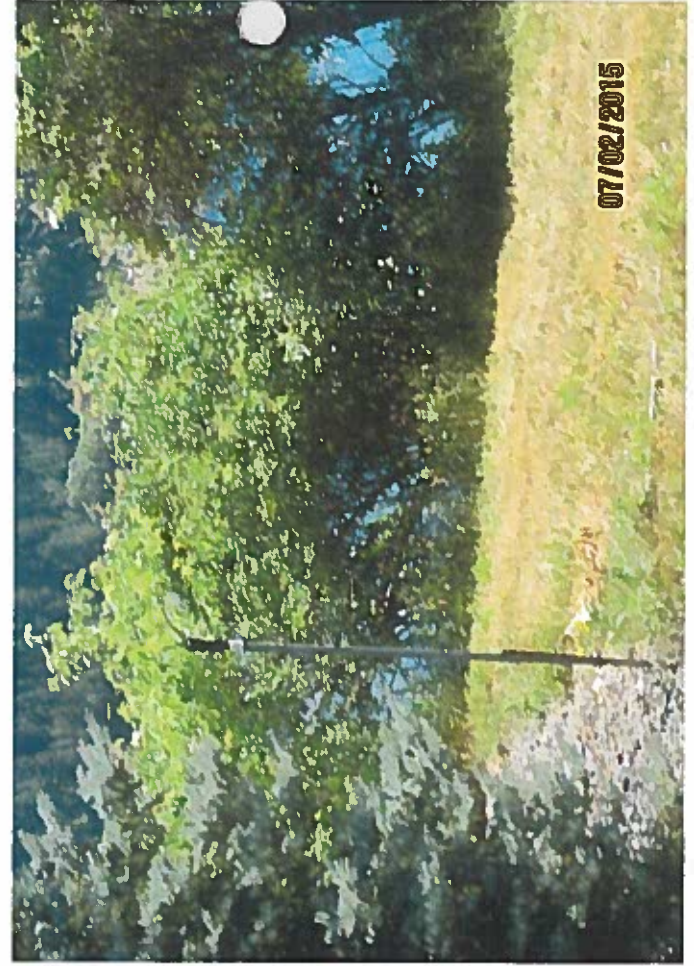
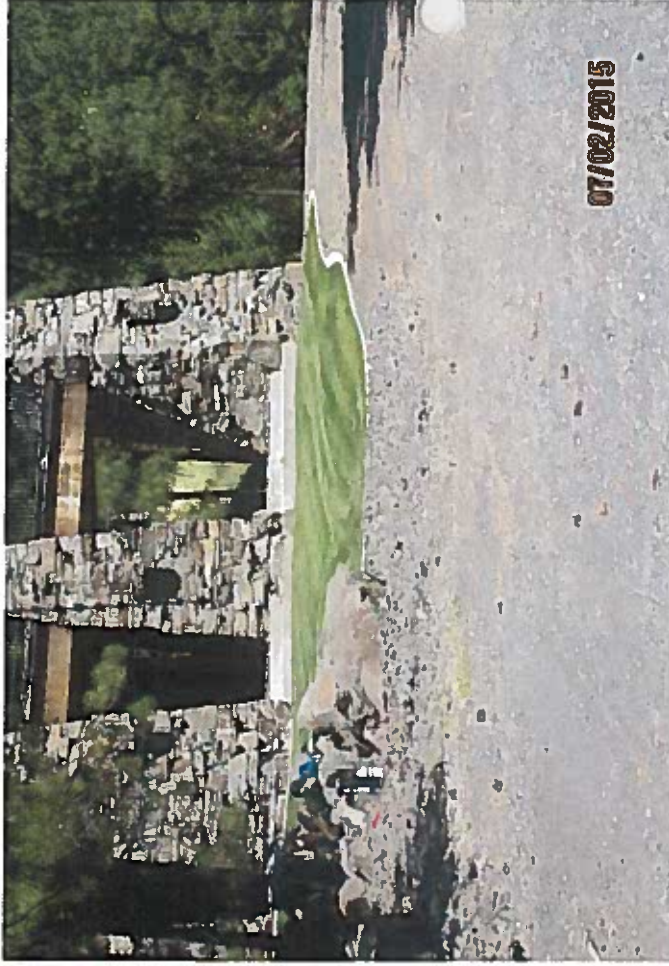
-  Point of Diversion
-  Place Of Use Boundary
-  Townships
-  PLS Sections

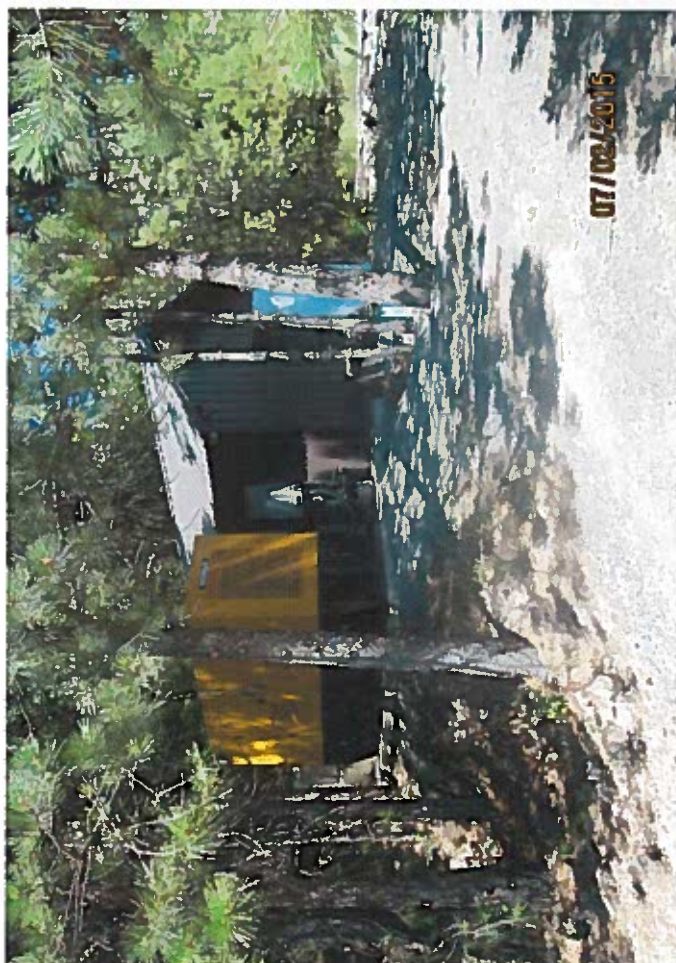
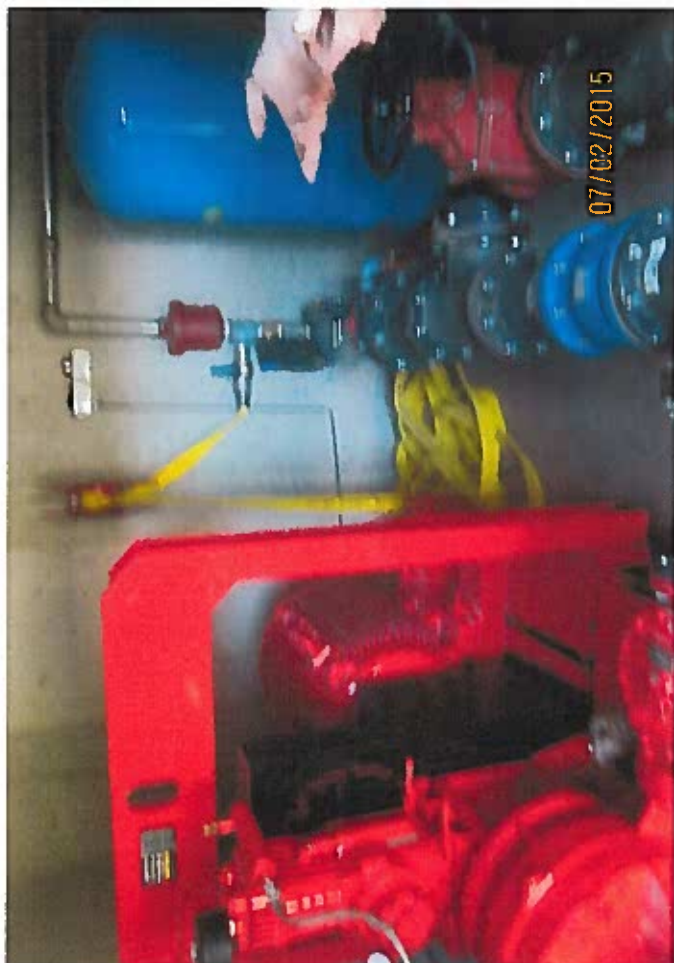
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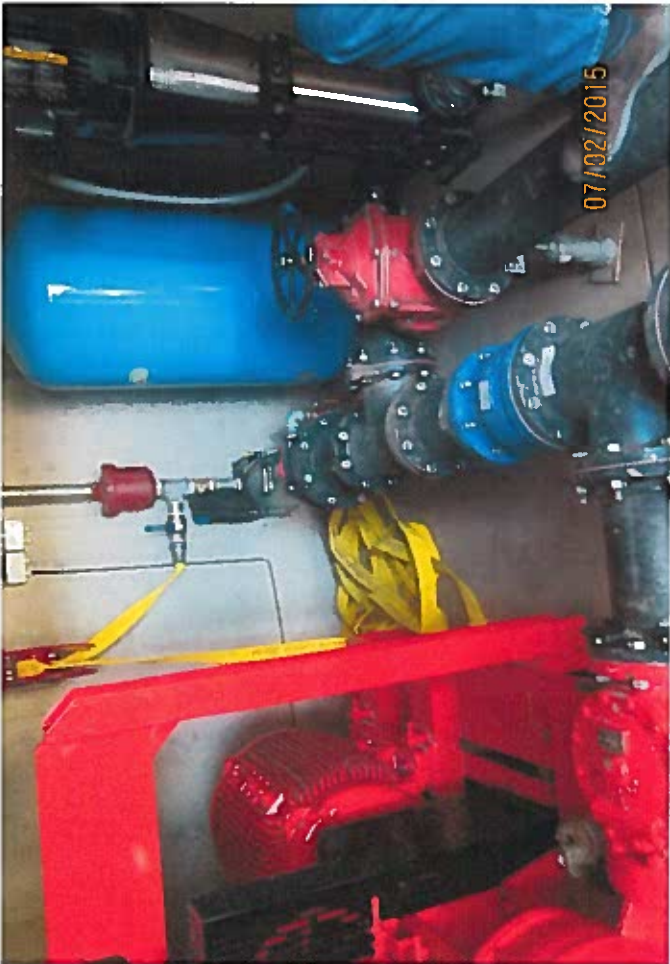


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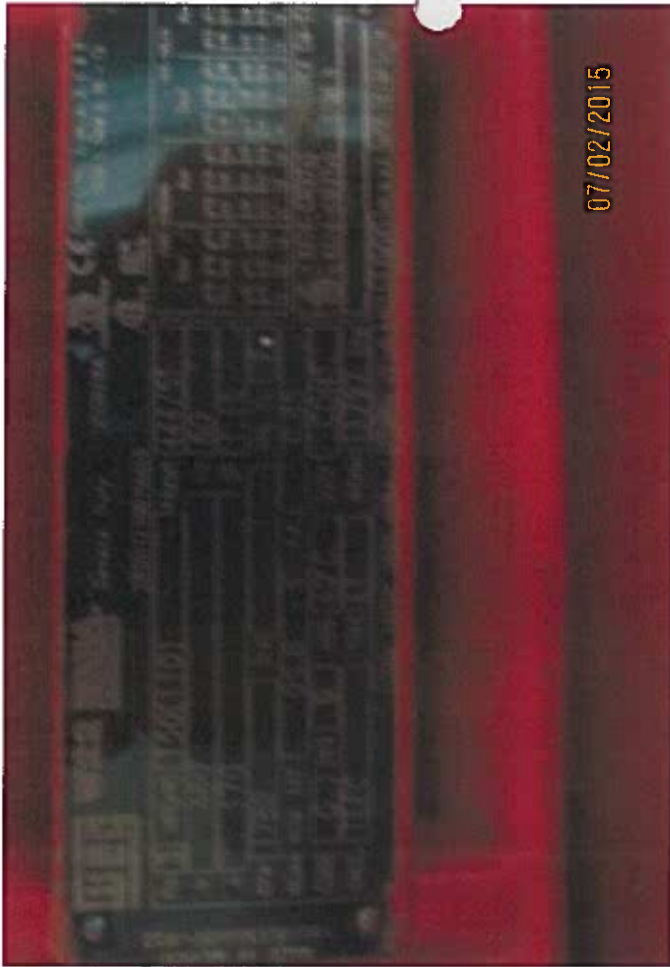




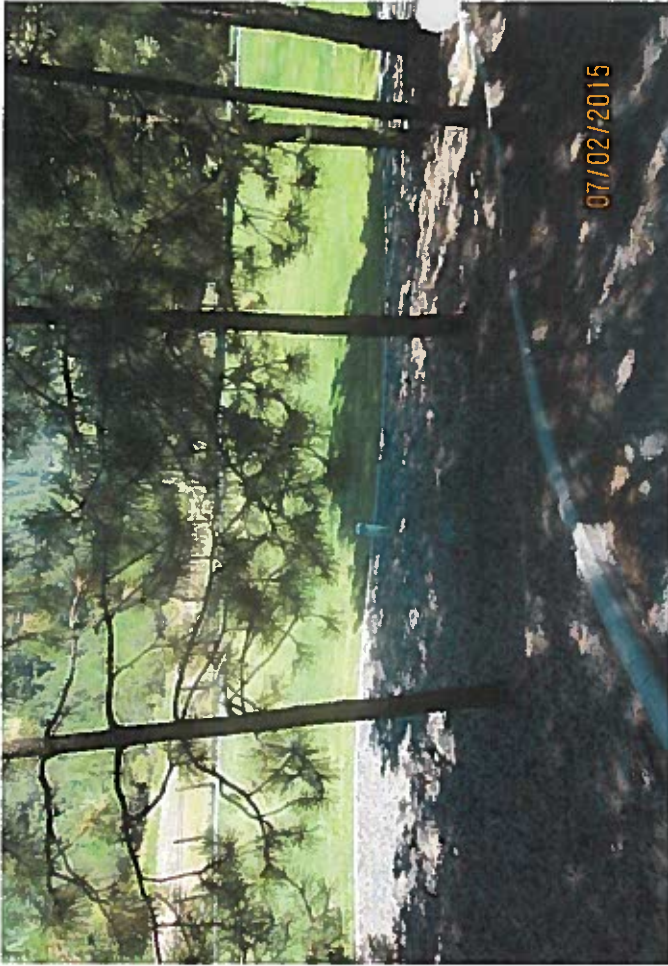
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