

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 96-09260
Exam Date: 6/12/2015

1. Current Owner:
ROB BEHRENS 84 STEWARTS DR SAGLE ID 83860 (406)360-0666
2. Accompanied by: Unable to meet Rob there. Performed exam without applicant.

3. SOURCE: 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 NE¼SW¼ Sec. 13, Twp 56N, Rge 01E, B.M. BONNER County

Method of Determination: GPS and maps. POD location at 48° 11.925, 116° 16.851.

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	
56N	01E	13									X			X					

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.

Well or Diversion ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
D0041249	FRANKLIN	5			

*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. THEORETICAL PUMPING EQUATION ESTIMATES FLOW RATE AT 0.06 CFS

Additional Computation Sheets Attached

$$(5HP)(8.8)(0.8) / (470 + (50 \text{ PSI} \times 2.3087)) = 0.06 \text{ CFS}$$

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 FOR 12 HOMES WITH IRRIGATION OF UP TO 1/2 ACRE

$$12 \text{ HOMES} \times 1.2 \text{ AF} = 14.4 \text{ AF}$$

G. NARRATIVE/REMARKS/COMMENTS

IDWR ATTEMPTED TO SET UP A TIME TO PERFORM FIELD EXAM WITH APPLICANT BUT WAS UNABLE TO. APPLICANT GAVE PERMISSION TO CONDUCT FIELD EXAM WITHOUT HIM. FIELD EXAM SHOWED APPLICANT HAD ONLY INSTALLED 1 WELL INSTEAD OF THE PERMITTED TWO. THERE WAS A 5 HP PUMP INSTALLED IN WELL THAT RAN AT 50 PSI. IDWR WAS UNABLE TO PERFORM FLOW MEASUREMENT SO THEORETICAL ESTIMATES A FLOW RATE 27 GPM OR 0.06 CFS. WELL WOULD PUMP WATER INTO STORAGE TANK THAT WOULD THEN BE PUMPED TO HOME SITES. ON TIME OF EXAM THERE WAS ONLY 1 HOME BUILT AND 11 OTHER LOTS WERE ALL STUBBED OUT WITH HOOKUPS. IDWR WILL ISSUE LICENSE FOR 0.06 CFS FOR DOMESTIC USE FOR 12 HOMES WITH IRRIGATION UP TO 1/2 ACRE PER HOME THAT ARE LOCATED IN THE ANTLER POINT SUBDIVISION. AMENDMENT WILL BE SENT OUT BECAUSE 4 OF LOTS ARE LOCATED IN THE SESW WHICH WAS NOT APPLIED FOR AS A PLACE OF USE.

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	0.06 CFS	14.4 AF
	<u>Totals:</u>	0.060 CFS	14.40 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 ☐ None

I. AUTHENTICATION

Field Examiner's Name Adam Fiedor Date 5-23-2016

Reviewer Morgan Case Date 5/24/2016

WELL HAS 5 HP PUMP AND IS SET AT 50 PSI. IDWR WILL ASSUME PUMP IS SET AT 470 FEET.

PUMP EQUATIONS WATER RIGHT No. 96-9260						
		HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q =	HP*8.8*Eff/ H	5	585.646 3	0.8	470	50
Q = 0.060 cfs 27.0 gpm						

IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

Office Use Only			
Inspected by			
Twp	Rge	Sec	
1/4	1/4	1/4	
Lat	:	:	Long

WELL TAG NO. D0041249
Drilling Permit No. 838024
Other IDWR No. 98-9280

OWNER
Name BEHRENS, ROB
Address 1510B BULUCK
City MISSOULA State MT Zip 59802

LOCATION OF WELL by legal description
sketch map location must agree with written location

	Twp. <u>56N</u> ☒ North or ☐ South
	Rge. <u>01</u> ☒ East or ☐ West
	Sec. <u>13</u> <u>1/4 NE 1/4 SW 1/4</u>
	Gov't Lot _____ County <u>BONNER</u>
Lat : : Long : :	
Address of Well Site <u>446 David Thompson Rd.</u> City <u>HOPE</u>	

(Give at least name of road + Distance to Road or Landmark)

Lt. _____ Blk. _____ Sub. Name _____

4. USE:

☐ Domestic ☒ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☐ Other _____

5. TYPE OF WORK check all that apply (Replacement, etc.)

☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

Material	SEAL/FILTER PACK		Amount Sacks or Pounds	METHOD
	From	To		
BENTONITE	0	18	100 lbs	OVERBORE
3/8 HOLE PLUG	18	58	600 LBS	OVERBORE

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 58'
Was drive shoe seal tested? ☐ Y ☒ N How? _____

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
4	-6	480	.200	PVC	☐	☒	☒	☐
6	+2	58	.280	STEEL	☒	☐	☒	☐

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS

☒ Perforations Method SKILL SAW
☐ Screens Screen Type _____

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
465	480	1/8 X 6	45	4	PVC	☐	☒

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

50 ft. below ground Artesian pressure _____ lb.
Depth flow encountered 180 ft. Describe access port or control devices: _____

11. WELL TESTS:

☐ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian

Yield gal/min.	Drawdown	Pumping Level	Time
15-20			1 HR

Water Temp. COLD Bottom Hole Temp COLD

Water Quality test or comments: CLEAR

Depth first Water encountered 160

12. LITHOLOGIC LOG:(Describe repairs or abandonment)

Bore Depth	From	To	Remarks: Lithology, Water Quality, Temperature	Water	Y	N
10	0	1	Fill	☐	☒	
10	1	10	Clay w/ Shale	☐	☒	
10	10	58	Shale	☐	☒	
6	58	121	Shale	☐	☒	
6	121	180	Shale	☒	☐	
6	180	192	Shale	☐	☒	
6	192	214	Shale	☒	☐	
6	214	480	Shale	☐	☒	

RECEIVED

FEB 23 2006

IDWR/North

RECEIVED

APR 17

IDWR/North

Completed Depth 480 (Measurable)
Date: Started 1/12/2006 Completed 1/16/2006

13. DRILLER'S CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

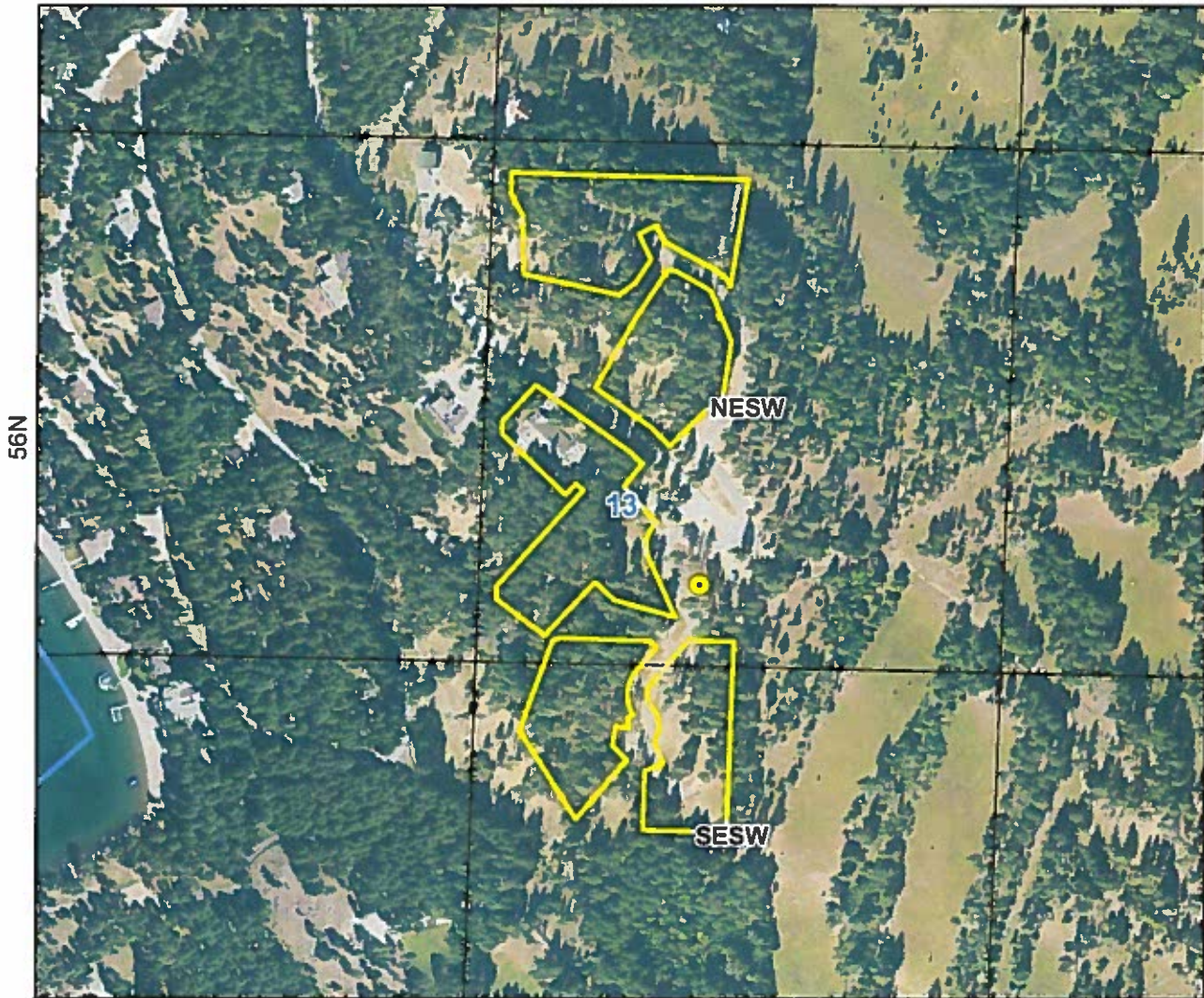
Firm Name H2O Well Service, Inc. Firm No. 448

Firm Official [Signature] Date _____

and
Supervisor or Operator Todd Morgan Date 1/17/06
TODD MORGAN (Sign Once if Firm Official or Operator)

State of Idaho
Department of Water Resources
Water Right License
96-9260

01E



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

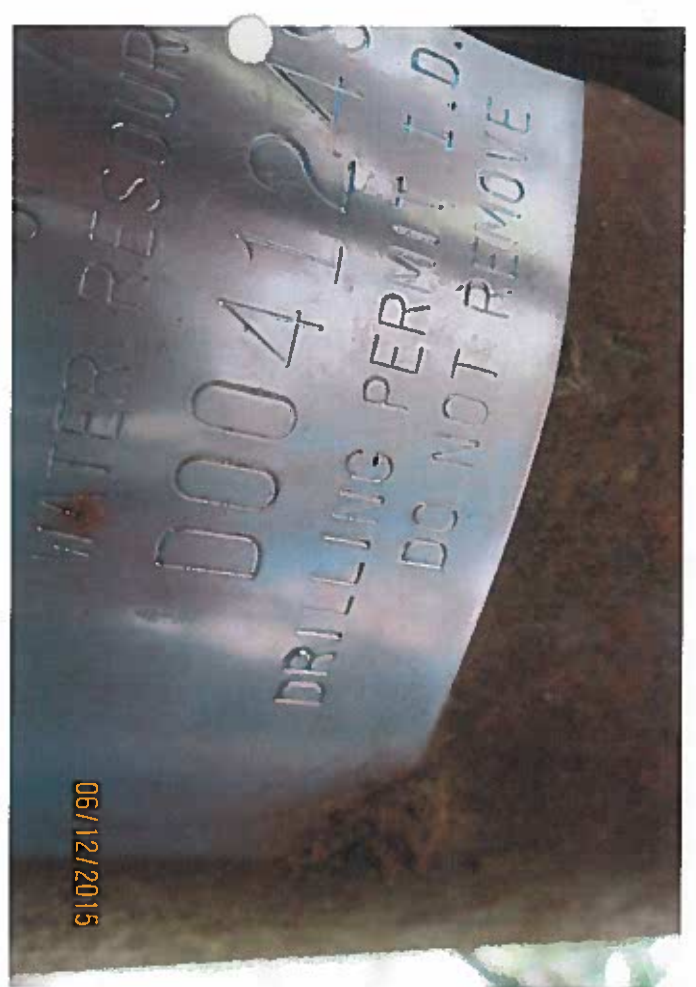
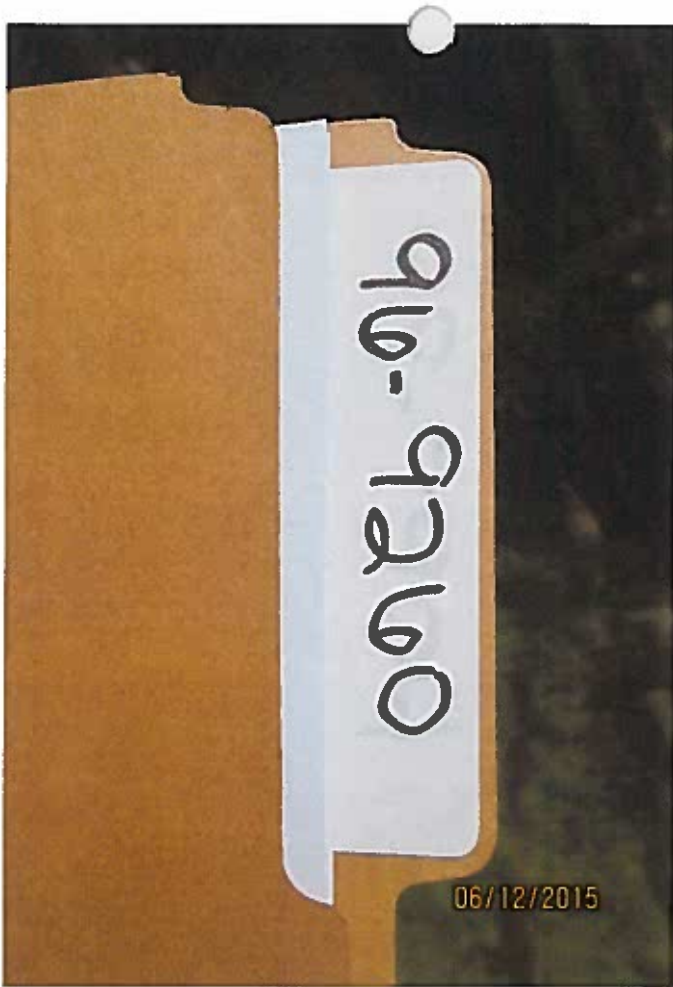
0 0.05 0.1 0.2 Miles



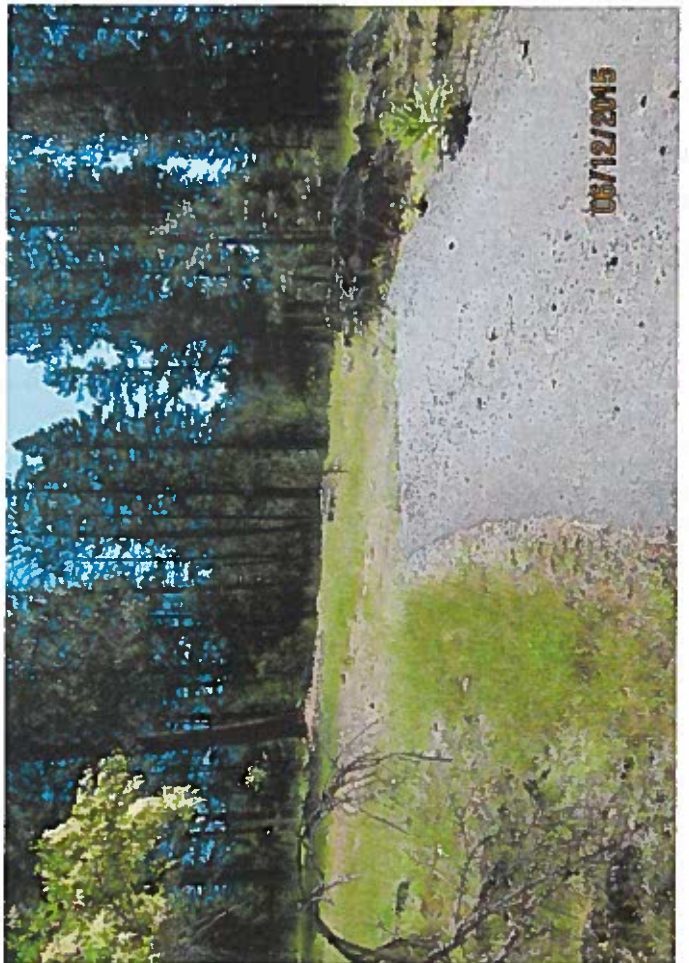
Bonner County Map
Public Map Viewer

Clear Graphics Basemaps Feature Labels

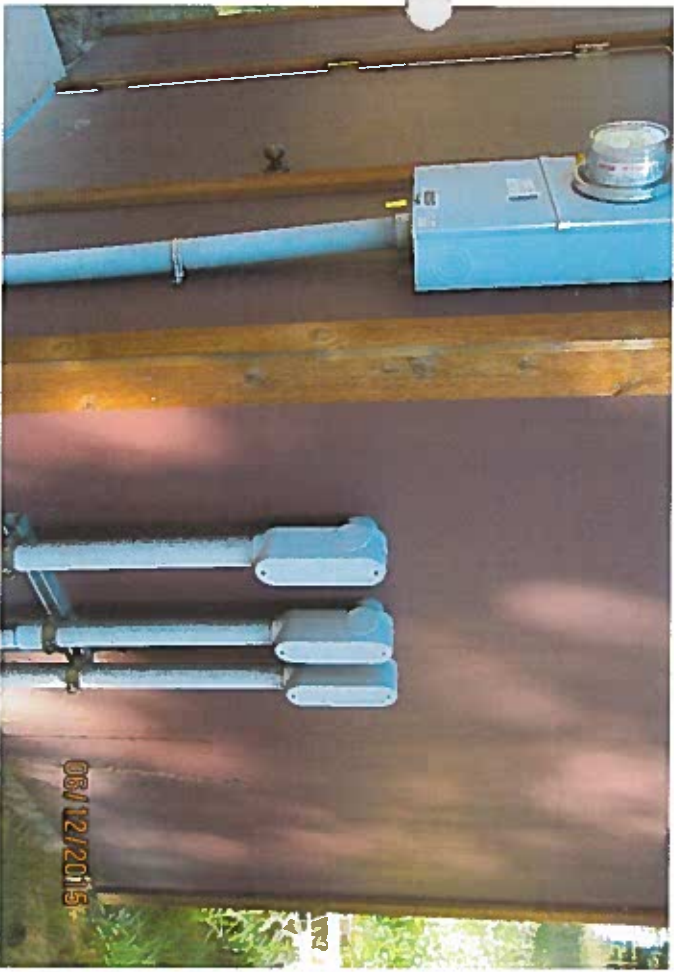




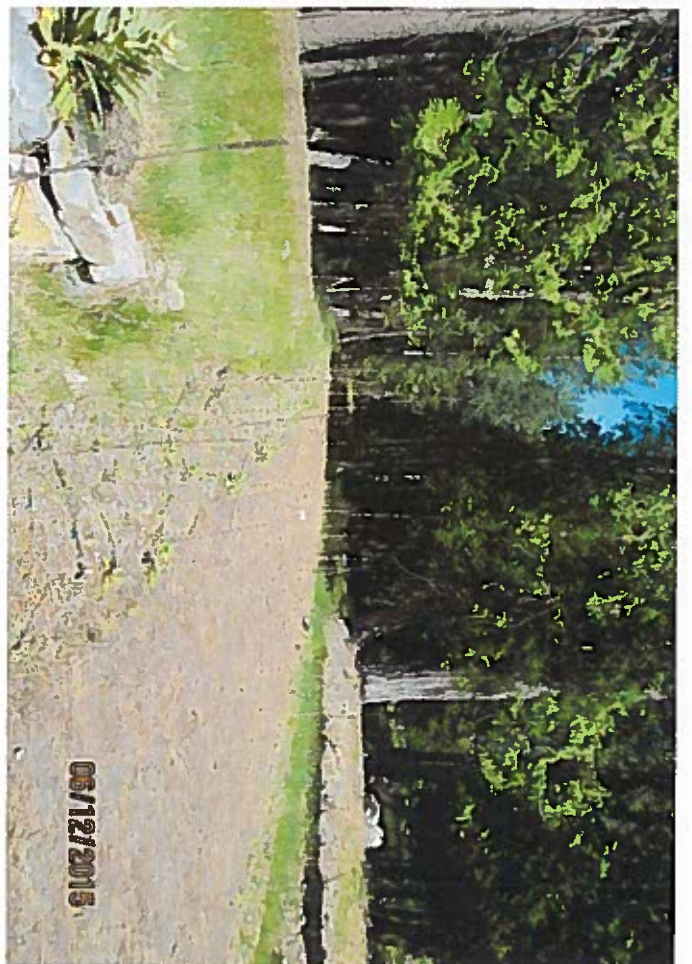
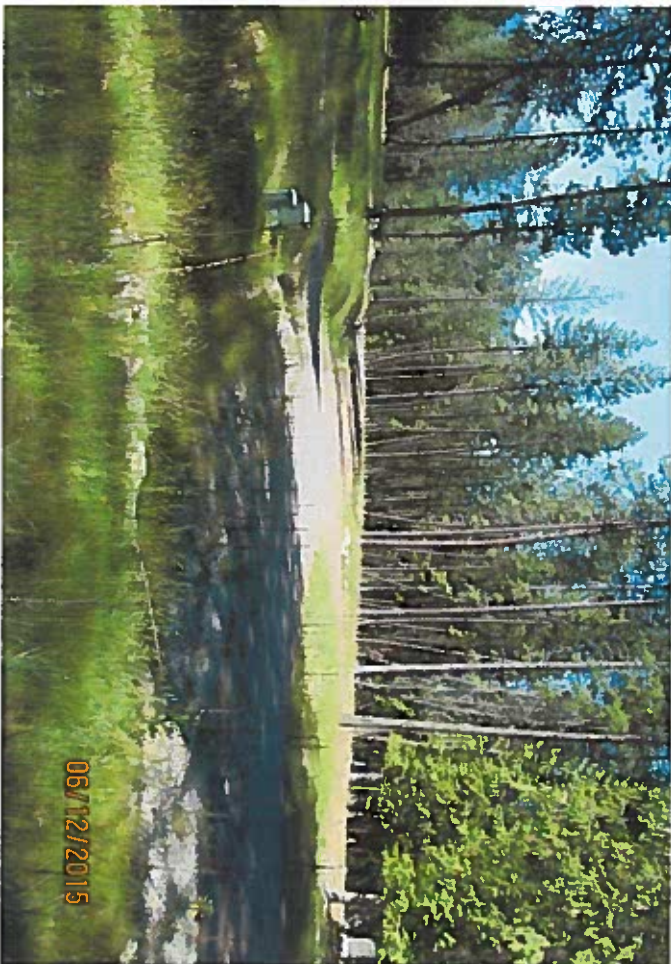
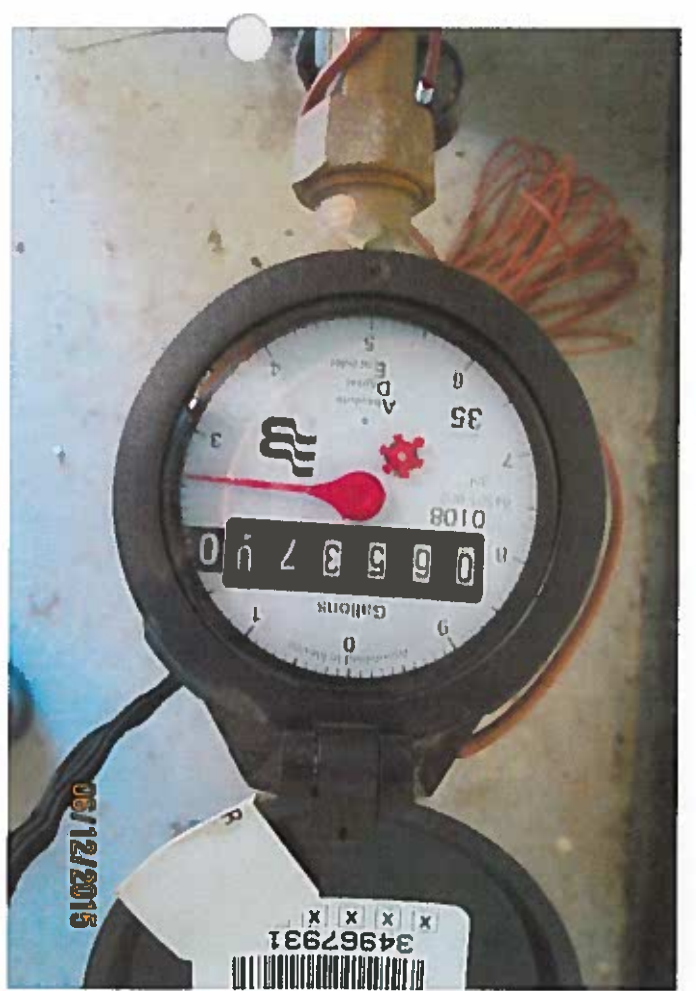
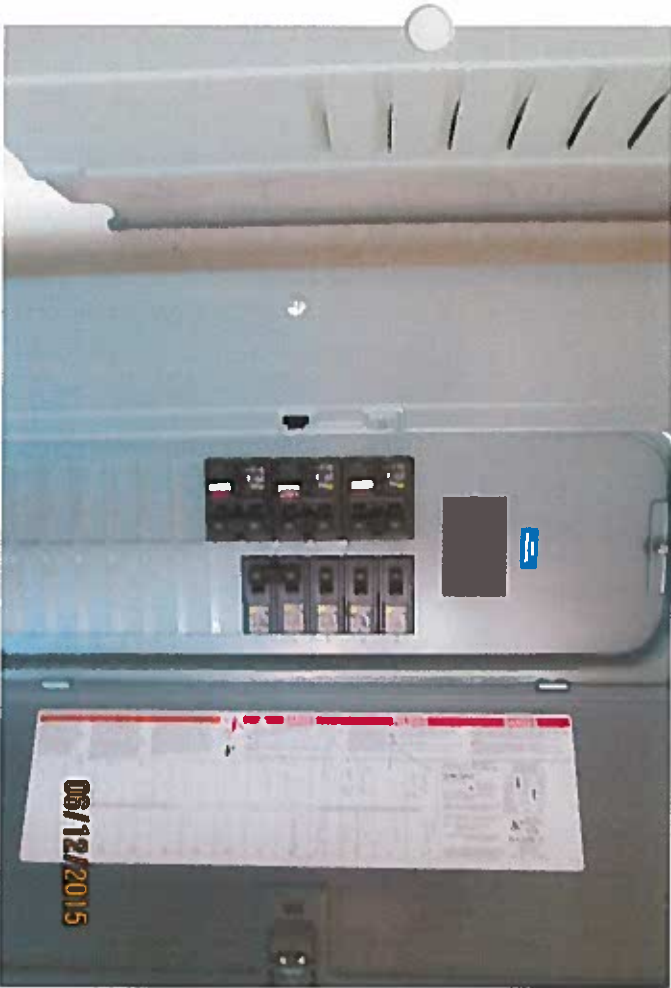
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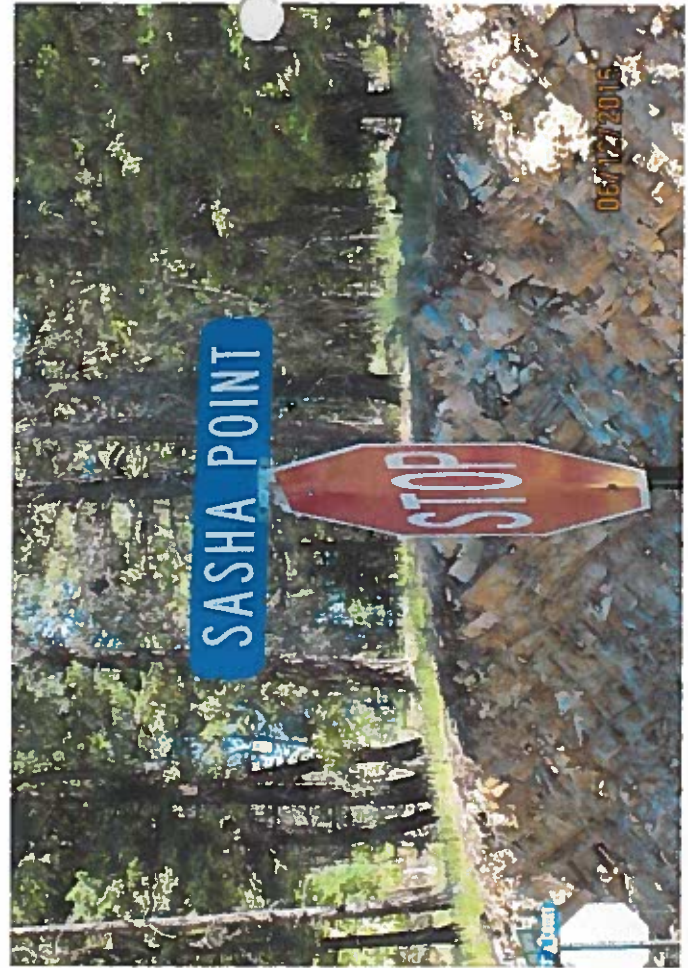
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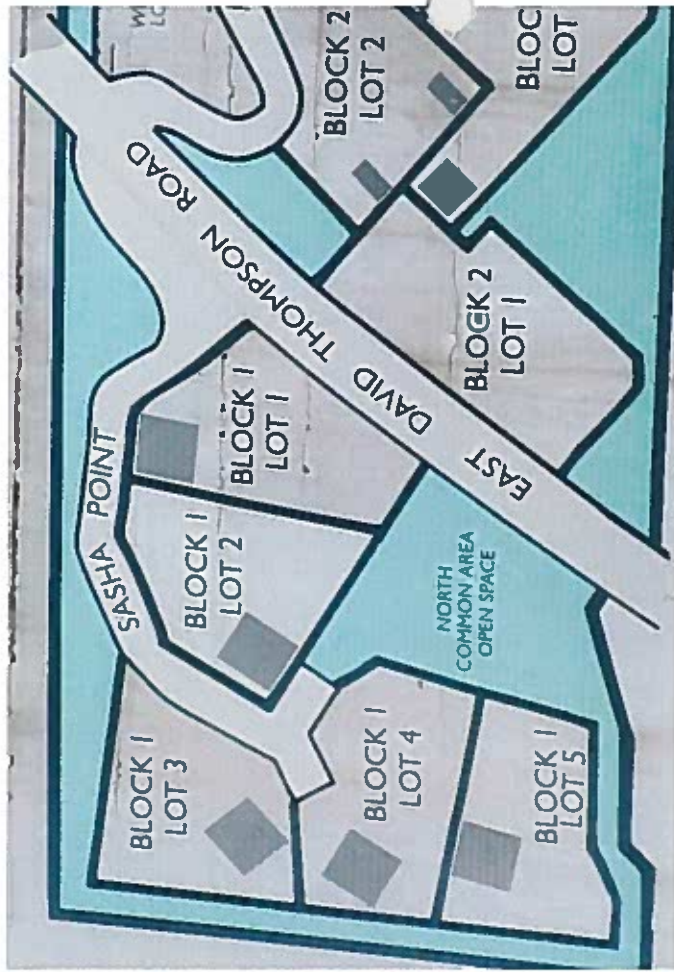
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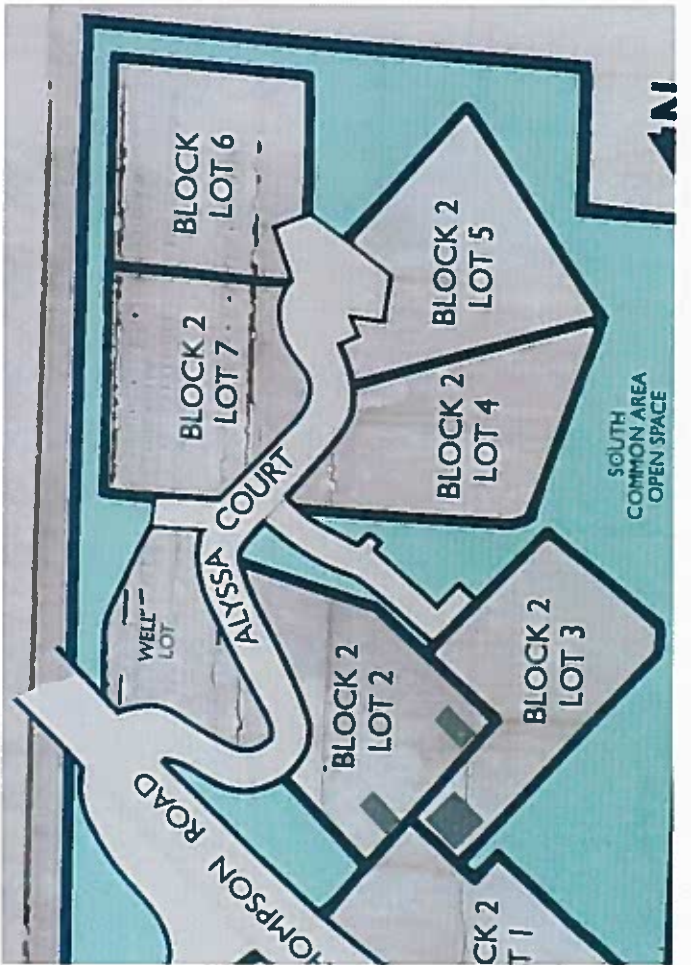
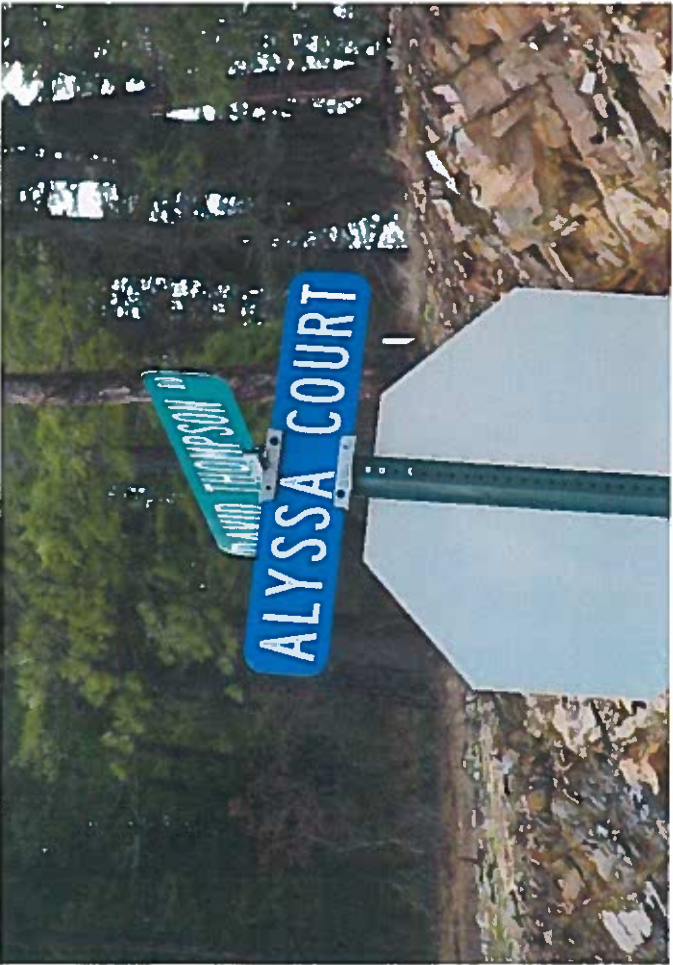
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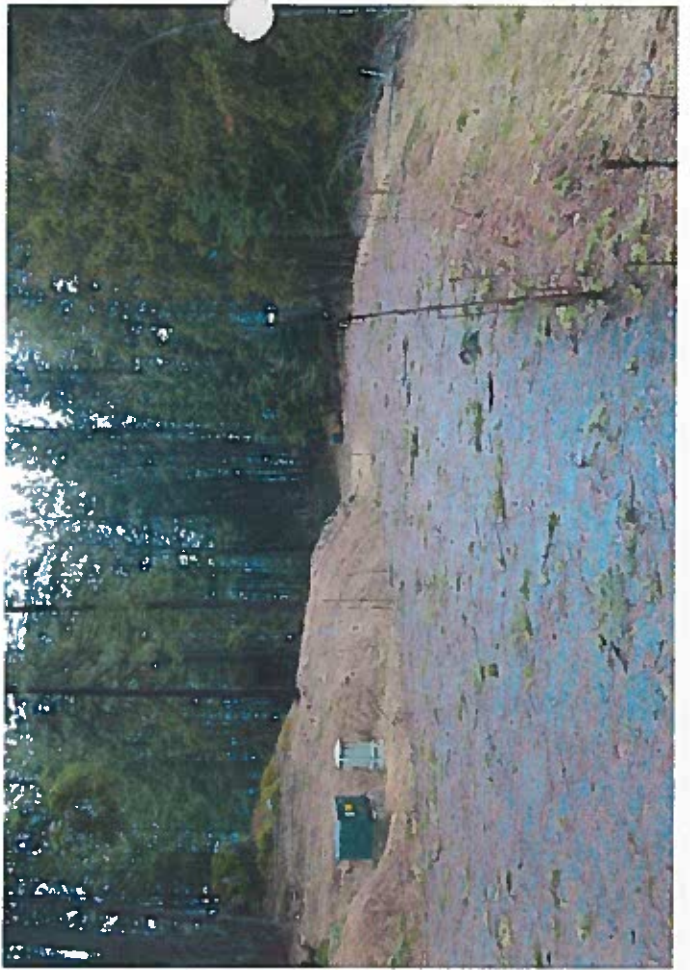
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