

A. GENERAL INFORMATION

Exam Date: 9/11/2014

- ### 3. SOURCE
- #### GROUND WATER

TRIBUTARY

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

1. LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER SW1/4SE1/4 Sec. 8, Twp 51N, Rge 05W, B.M. KOOTENAI County
GROUND WATER SE1/4SE1/4 Sec. 8, Twp 51N, Rge 05W, B.M. KOOTENAI County
GROUND WATER NW1/4NW1/4 Sec. 21, Twp 51N, Rge 05W, B.M. KOOTENAI County

Method of Determination: GPS AND MAPS. WELL #1 47° 46.520'N, 116° 59.314'W (A0003265) 79GPM. WELL #2 47° 46.452'N, 116° 59.114'W (A0003264) 36GPM. WELL #3 47° 45.561'N 116° 58.742'W (A0003263) 200GPM.

PLACE OF USE: MUNICIPAL

[illegible]

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 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 Size</u>
D0044899	FRANKLIN				
D0005766	FRANKLIN				

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

D. FLOW MEASUREMENTS

Unable to conduct flow measurement because pipes were buried. Numbers provided by Hoyt Bluff Water Association from 2014 conducted by engineering firm. See attached pictures.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: N/A

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

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

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

2. Volume Calculations for Other Uses: 64 HOMES X 1.2AF = 76.8AF

G. NARRATIVE/REMARKS/COMMENTS

ONLY 3 WELLS IN USE. TOTAL OF 315 GPM OR 0.7CFS. DOMESTIC AND 1/2 ACRE OF IRRIGATION PER HOME FOR 64 HOMES.

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>
MUNICIPAL	01/01 to 12/31	0.700 CFS	76.80 AF
<u>Totals:</u>		0.700 CFS	76.80 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

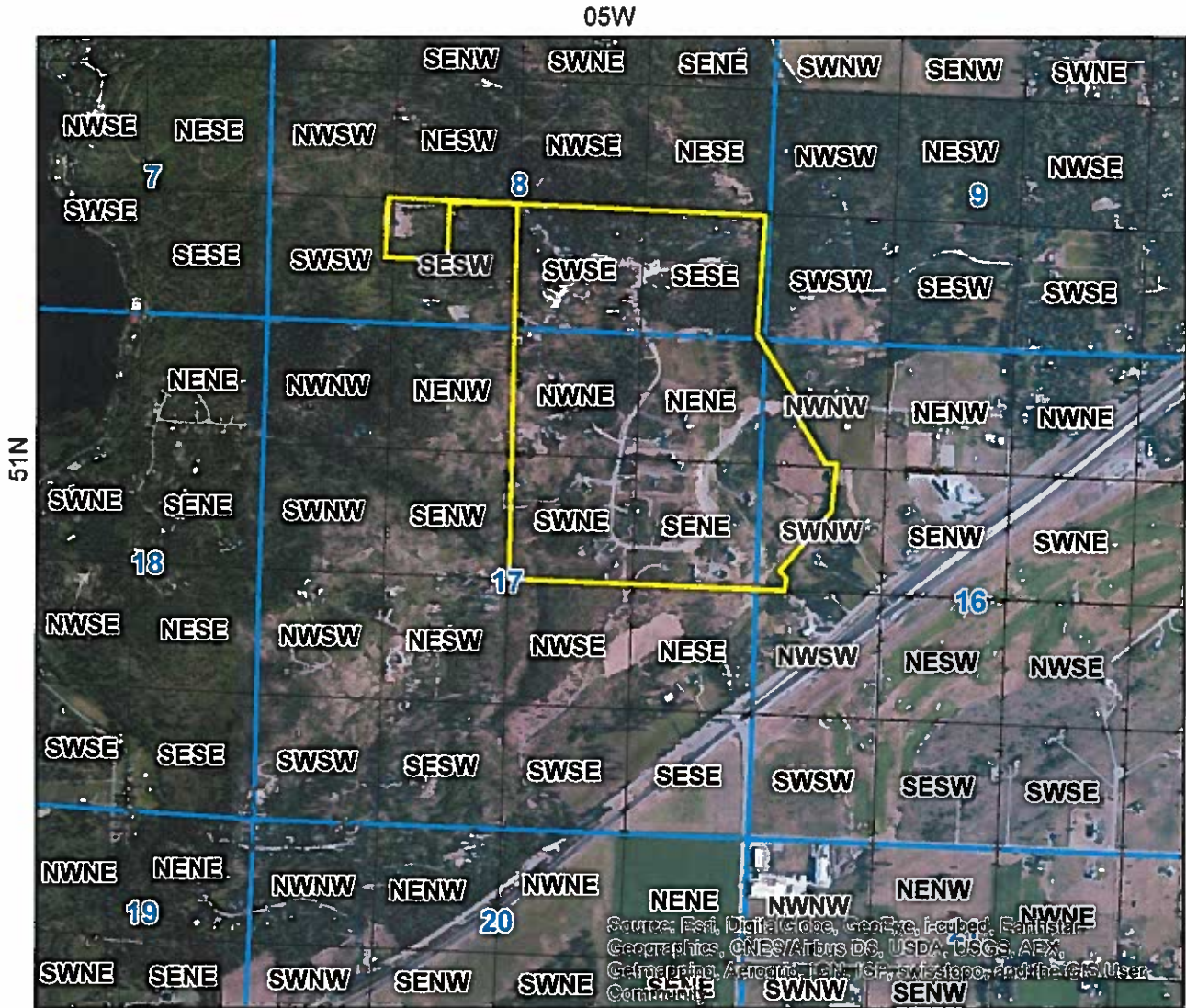
Field Examiner's Name *E. J. R. [Signature]* Date 12-19-2014

Reviewer *Allen [Signature]* Date 12-19-2014

Hoyt Bluff Water Assn

Water Right License

95-9034



0 0.225 0.45 0.9 Miles

- Water Service Area Boundary
- Townships
- PLS Sections
- Quarter Quarters



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: : :	

1. WELL TAG NO. D0044899

DRILLING PERMIT N 840358
Other IDWR No _____

2. OWNER:

Name Hoyt Bluff Water Association

Address PO Box 677

City Rathdrum State ID Zip 83858

3. LOCATION OF WELL by legal description:

N		Twp	51N	North	☒ or	South	☐
W		Rge	05W	East	☐ or	West	☒
E		Sec	21	1/4 NE	1/4 NW	1/4	
S		Gov't Lot		10 Ac	40 Ac	160 Ac	
		Lat		County	Kootenai	Long	

Address of Well Site: (see next line)

MacCormack Industrial Park, N McGuire & Hayden Ave

City Rathdrum

Lot _____ Blk _____ Sub. Name (see next line) _____

4. USE:

- ☐ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☒ Other Community Water System

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

SEAL/FILTER PACK			Amount	Method
Material	From	To	Sacks/Lbs	
Bentonite Gran.	0	68	52	dry pour

Drive Shoe Used? ☐ Y ☒ N Shoe Depth(s) _____

Drive Shoe Seal Tested? ☐ Y ☒ N How? _____

8. CASING/LINER

Diam	From	To	Gauge	Material	Casng	Liner	Weld	Thrded
10	2	200	0.365	Steel	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length Headpipe _____ Length Tailpipe _____

9. PERFORATIONS/SCREENS

- ☐ Perforations? Method _____
☒ Screens? Screen Type stainless

From	To	Slot	Nmbr	Diam	Material	Casng	Liner
198	208	.80		9	S.Steel	☒	☐
						☐	☐
						☐	☐

10. STATIC WATER LEVEL or ARTESIAN PRESSURE

126 ft. below ground. Artesian pressure _____ lb.
Depth flow encountered 128 ft. Describe access port or control devices: Steel cap welded

11. WELL TESTS:

- ☐ Pump ☐ Bailor ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pump Level	Time
400	100%	206	2 hrs

Water Temp. _____ cold Bottom hole temp. _____ cold
Water Quality test or comments: (below) Depth first Water Encountered 126
clear, cold, no smell

12. LITHOLOGIC LOG (Describe repairs or abandonment)

Bore Diam	From	To	Remarks: Lithology, Water Quality and Temperature	Water	
				Y	N
16	0	68	Sand & gravel cobbles	☐	☒
12	68	120	Sand & gravel - 3/4-1 inch	☐	☒
12	120	125	Sand & gravel - 3/4 minus - gray clay mix	☐	☒
12	125	150	Sand & gravel - 1 1/2 minus	☒	☐
12	150	155	Boulder	☐	☒
12	155	180	Sand & gravel - 2 inch minus	☐	☒
12	180	208	Sand & gravel - 3 inch minus	☐	☒

RECEIVED
AUG 03 2006
IDWR/North

Completed Dept _____ 208 (Measurable)
Date: Started 6/22/2006 Completed 7/10/2006

13. DRILLERS CERTIFICATION

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

Firm United Drilling Inc. Firm No 414
Name _____
Firm Official Jason C. Beckham Date 7/12/2006
and _____
Supervisor or Operator Jason C. Beckham Date 7/12/2006

51N 5W 21

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: : : _____	

1. WELL TAG NO. **D0005766**

DRILLING PERMIT N WELL #2

Other IDWR No **95-99-N-13**

2. OWNER:

Name **Brad Hoyt**

Address **17707 East Sprague / Suite 302**

City **Spokane**

State **WA**

Zip **99208**

3. LOCATION OF WELL by legal description:

N		Twp 51N	North ☒ or South ☐
W		Rge 05W	East ☐ or West ☒
E		Sec 17	1/4 NE 1/4 NE 1/4
S		10 Ac 40 Ac 160 Ac	
		Gov't Lot _____	County Kootenai
		Lat _____	Long _____

Address of Well Site: (see next line)

Howell Rd to Hoyt to end

City _____

Lot _____

Blk _____

Sub. Name (see next line)

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

SEAL/FILTER PACK			Amount	Method
Material	From	To	Sacks/Lbs	
Bentonite	0	39	25-sacks	pour in

Drive Shoe Used? ☒ Y ☐ N Shoe Depth(s) **39 ft**

Drive Shoe Seal Tested? ☐ Y ☒ N How? _____

8. CASING/LINER

Diam	From	To	Gauge	Material	Casing	Liner	Weld	Thrded
8	1	39	0.25	Steel	☒	☐	☒	☐
6	6	500	0.16	PVC	☐	☒	☐	☐
					☐	☐	☐	☐

Length Headpipe _____

Length Tailpipe _____

9. PERFORATIONS/SCREENS

- ☒ Perforations? Method **Drill**
☐ Screens? Screen Type _____

From	To	Slot	Nmbr	Diam	Material	Casing	Liner
400	500	1/2	800	1/2	PVC	☐	☒
						☐	☐
						☐	☐

10. STATIC WATER LEVEL or ARTESIAN PRESSURE

45 ft. below ground.

Artesian pressure _____ lb.

Depth flow encountered _____

482

ft. Describe access port or

control devices: **Steel cap welded**

11. WELL TESTS:

- ☐ Pump ☐ Baller ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pump Level	Time
50+	100%	495	2 hrs.

Water Temp. _____ cold

Bottom hole temp. _____ cold

Water Quality test or comments: (below) Depth first Water Encountered **175**
clear, cold, no smell

12. LITHOLOGIC LOG (Describe repairs or abandonment)

Bore Diam	From	To	Remarks: Lithology, Water Quality and Temperature	Water	
				Y	N
12	0	4	Topsoil	☐	☒
12	4	19	Decomposed granite - brown	☐	☒
12	19	39	Granite - brown - hard	☐	☒
8	39	65	Granite - brown - medium	☐	☒
8	65	175	Granite - purple/black/white - medium	☐	☒
8	175	183	Granite - green/white/black - 4 gpm	☒	☐
8	183	195	Granite - green/white/black - soft	☐	☒
8	195	210	Granite - purple - medium - broken	☐	☒
8	210	265	Granite - purple/black/white	☐	☒
8	265	345	Granite - purple/black/white, soft, broken	☐	☒
8	345	360	Granite - black & white - hard	☐	☒
8	360	390	Granite - purple & white - hard	☐	☒
8	390	410	Granite - purple & white - soft	☐	☒
8	410	482	Granite - purple & white - hard	☐	☒
8	482	486	Granite - purple & white - hard - broken	☐	☒
			water - 50+ gpm	☒	☐
8	486	520	Granite - purple/black/white - hard	☐	☒

RECEIVED

MAR 12 1999

IDWR/North

Completed Depth **520** (Measurable)

Date: Started **2/12/99** Completed **2/18/99**

13. DRILLERS CERTIFICATION

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

Firm Name **United Drilling Inc.**

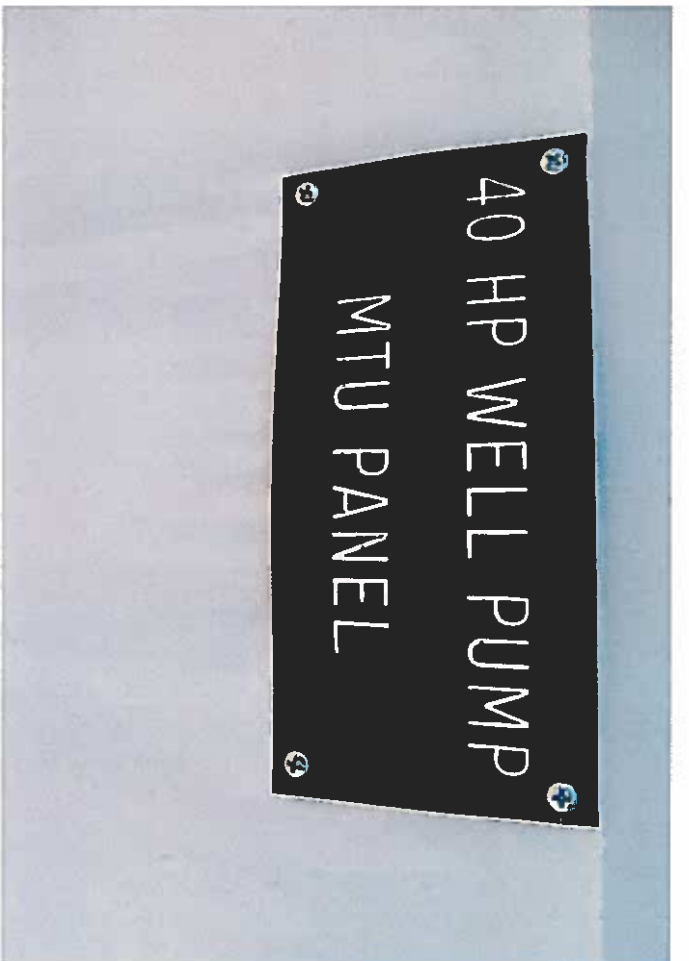
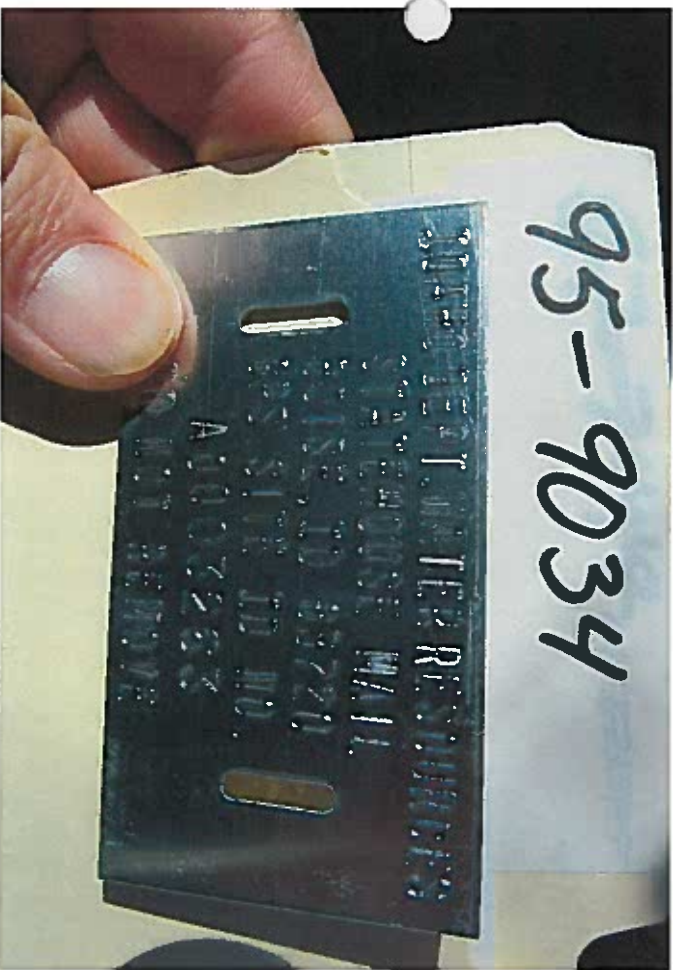
Firm No **414**

Firm Official and _____

Date **2/26/99**

Supervisor or Operator **Jason C. Beckham**

Date **2/26/99**



95-9034

HOYT BLUFF WATER COMPANY

MONTHLY

NEW WELL

PREVIOUS MAINTENANCE CHECK		CURRENT MAINTENANCE CHECK	
July 28, 2014		August 27, 2014	
88,668.800	200 gpm	91,953.100	200 gpm
L1= 56.5	L2= 54.4	L1= 57.2	L2= 55.8
498 volts		491 volts	
∞		∞	
L1= 0.6	L2= 0.6	L1= 0.6	L2= 0.6
7502.95	Starts 3256	7777.76	Starts 337
76		71	
Working		Working	

UPPER WELL)

HOYT BLUFF WATER COMPANY

MONTHLY

NEW WELL

PREVIOUS MAINTENANCE CHECK		CURRENT MAINTENANCE CHECK	
July 28, 2014		August 27, 2014	
88,668.800	200 gpm	91,953.100	200 gpm
L1= 56.5	L2= 54.4	L1= 57.2	L2= 55.8
498 volts		491 volts	
∞		∞	
L1= 0.6	L2= 0.6	L1= 0.6	L2= 0.6
7502.95	Starts 3256	7777.76	Starts 337
76		71	
Working		Working	

UPPER WELL)

WELL #2 (LOWER WELL)

WELL PUMP - 5 HP SUBMERSIBLE - 40 GPM

2,881.000	36 gpm	2,881.100	36 gpm
L1= 23.9	L2= 18.0	L1= 23.9	L2= 20.8
241 volts		245 volts	
∞		∞	
L1= 1.0	L2= 2.0	L1= 1.0	L2= 2.0
15,427.9		15,427.9	
Offline		Offline	

GENERAL PLUMBING & ELECTRICAL

PERIODIC MAINTENANCE CHECK | **CURRENT MAINTENANCE CHECK**

WELL #2 (LOWER WELL)

WELL PUMP - 5 HP SUBMERSIBLE - 40 GPM

2,881.000	36 gpm	2,881.100	36 gpm
L1= 23.9	L2= 18.0	L1= 23.9	L2= 20.8
241 volts		245 volts	
∞		∞	
L1= 1.0	L2= 2.0	L1= 1.0	L2= 2.0
15,427.9		15,427.9	
Offline		Offline	

GENERAL PLUMBING & ELECTRICAL

PERIODIC MAINTENANCE CHECK | **CURRENT MAINTENANCE CHECK**

75-9034

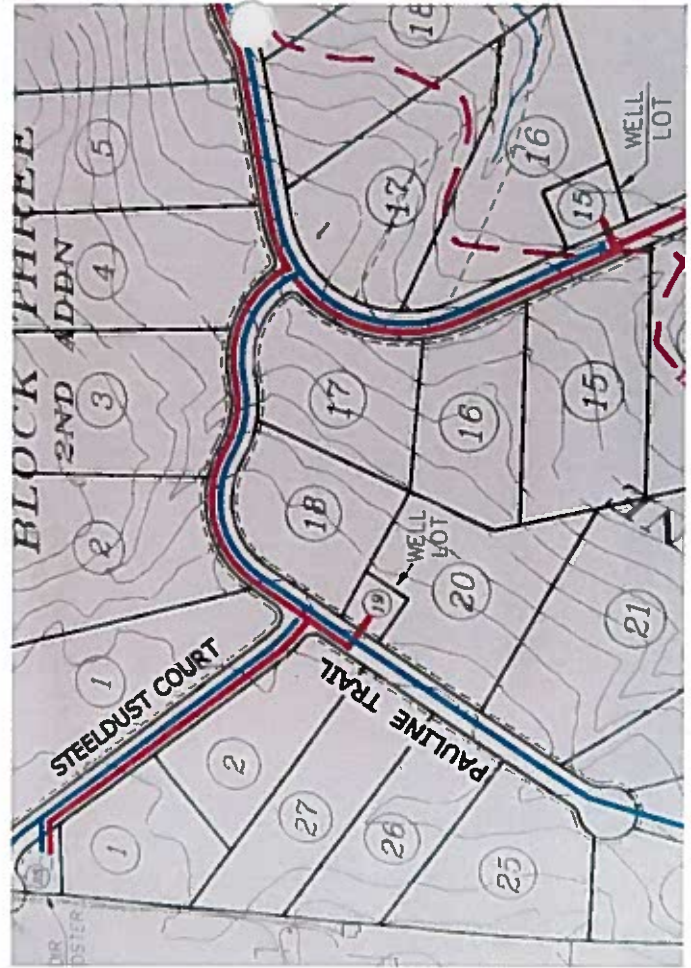
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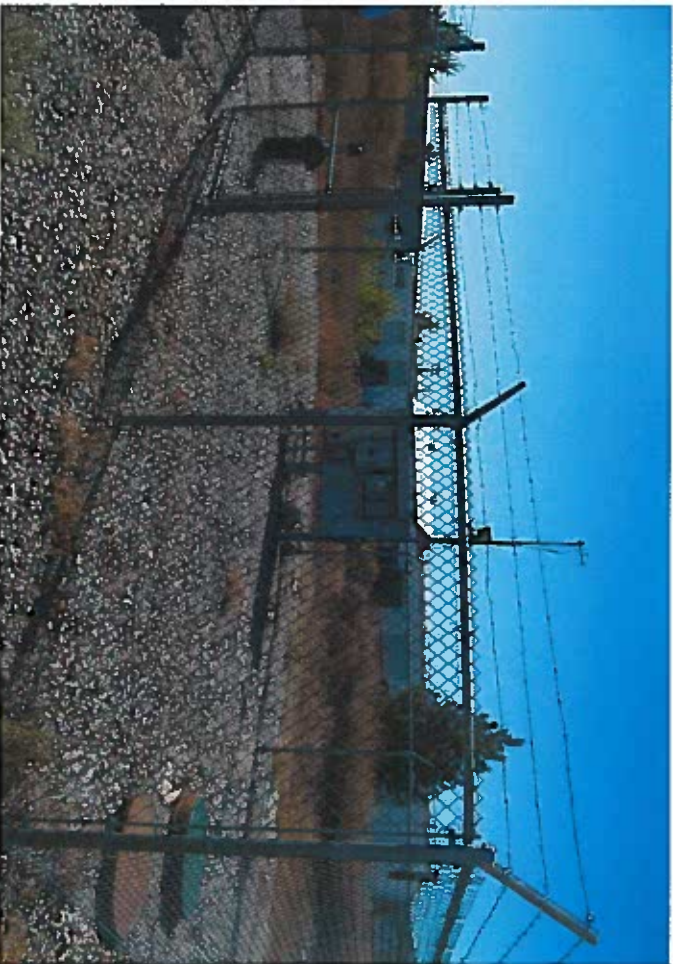
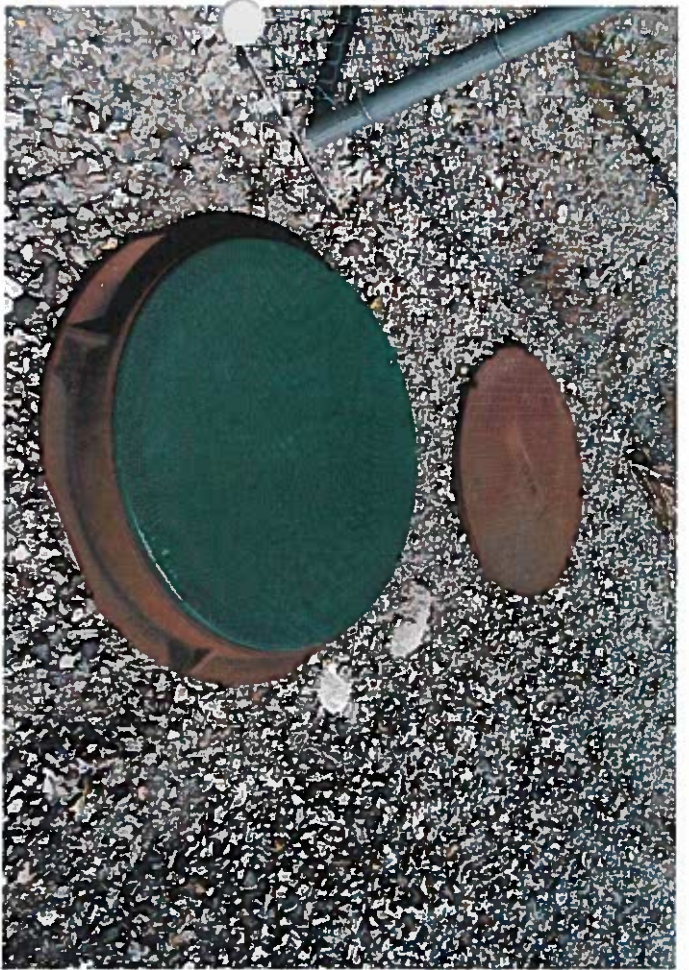


Total Starts this Period	176	Working
Comments:		
All switched to "auto"		

WELL #1 (UPPER WELL)			
WELL PUMP - 7.5 HP SUBMERSIBLE - 75 GPM			
Flow Meter Reading	24,124,600	24,125,500	
Flow	79 gpm	79 gpm	
Amperage	L1= 36.5 L2= 33.8 L3= 6.0	L1= 36.4 L2= 245 volts	
Voltage	242 volts	10 million ohms	
Short to Ground	10 million ohms	L1= .8 L2= 1.2 L3= 1.8	
Continuity	L1= .8 L2= 1.2 L3= 1.8	L1= .8 L2= 1.8	
BTM	10767.7	10767.9	
Comments:	Offline	Offline	

DUPLX ALTERNATING BOOSTER PUMP SYSTEM (WEST)			
PUMP #1 - 7.5 HP-150 GPM SUBMERSIBLE (Switched to LAG on 1)			
Amperage	Y= 29.4 B=28.5 R= 6.0	Y= 30.1	
Voltage	242 volts	245 volts	
Short to Ground	∞	∞	
Continuity	Y-B= .6 Y-R= 1.0 B-R= 1.4	Y-B= .6	
THM	22796.32	Starts 157,576	22796.32

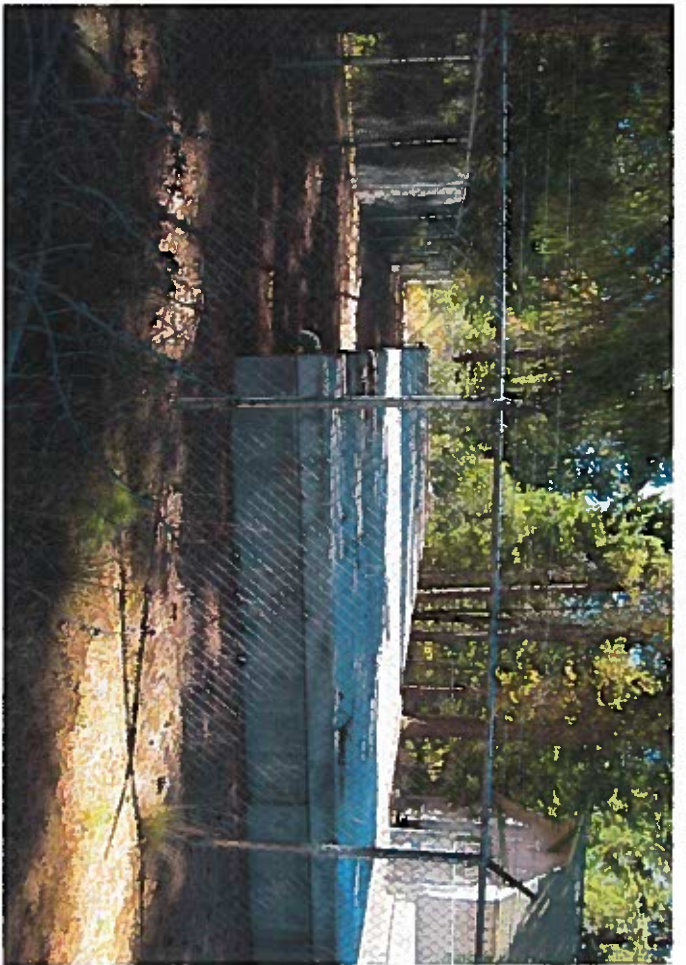
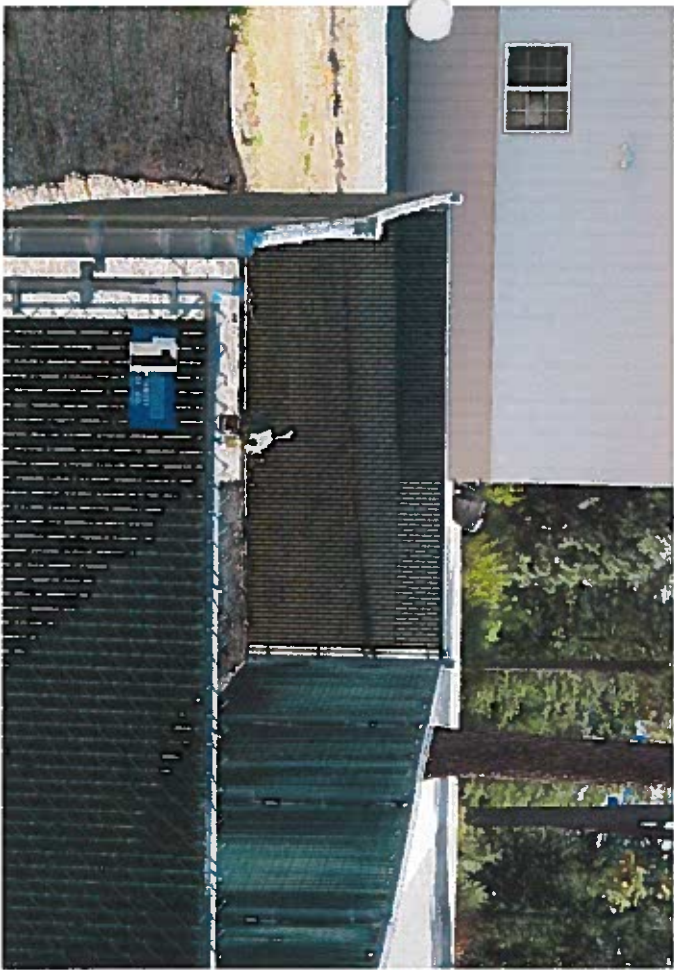




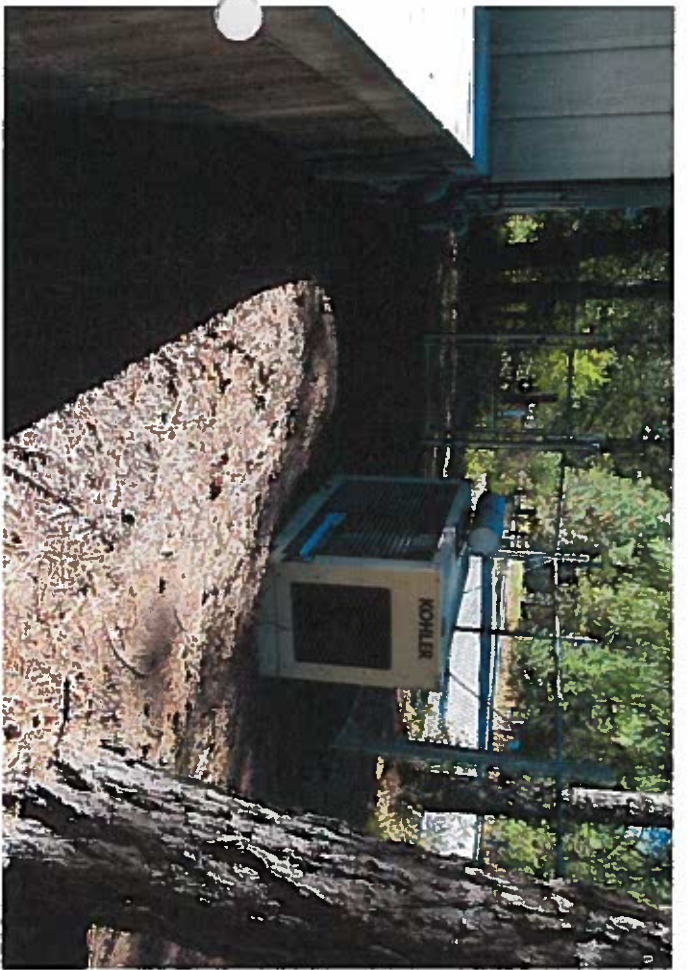
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