

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 94-7367

Exam Date: 7/31/2008

1. Current Owner: ROSE LAKE WATER ASSN
PO BOX 178
CATALDO ID 83810-0178
(208)682-4451
2. Accompanied by: MIKE WHITE
Phone No: 208-682-4451
Address: 22935 E KING ST CATALDO ID 83810
Relationship to Permit Holder: PRESIDENT

3. SOURCETRIBUTARY

GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use:
2. Other water rights with the same point of diversion:

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

GROUND WATER	L3 NW1/4NW1/4	Sec. 33,	Twp 49N,	Rge 01W, B.M.
KOOTENAI County				
GROUND WATER	L3 NW1/4NW1/4	Sec. 33,	Twp 49N,	Rge 01W, B.M.
KOOTENAI County				
GROUND WATER	SW1/4NW1/4	Sec. 34,	Twp 49N,	Rge 01W, B.M.
KOOTENAI County				

2. MAP AND GPS

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

Flow CALCULATIONS

PUMP EQUATIONS		WELL #1 (94-94-N-007-000)			
WATER RIGHT No.		94-7367			
	HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q = $HP \cdot 8.8 \cdot \text{Eff}$	3	312.2109	0.7	185	55
Q = 0.059 cfs 26.6 gpm					

PUMP EQUATIONS		WELL # 3 (94-96-N-002-000)			
WATER RIGHT No.		94-7367			
	HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q = $HP \cdot 8.8 \cdot \text{Eff}$	7.5	337.2109	0.7	210	55
Q = 0.137 cfs 61.6 gpm					

PUMP EQUATIONS		WELL #4 (DOO10076)			
WATER RIGHT No.		94-7367			
	HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q = $HP \cdot 8.8 \cdot \text{Eff}$	25	448.2109	0.7	321	55
Q = 0.344 cfs 154.5 gpm					

PLACE OF USE: MUNICIPAL

Twp Rge Sec	NE				NW				SW				SE				Totals
48N 01W 4	<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>	
			X L 6		X L 3			X L 5	X L 12			X					
48N 01W 9					X												
49N 01W 27	X											X			X	X	
49N 01W 28										X	X L 3	X			X L 2		
49N 01W 32				X													
49N 01W 33	X L 1			X L 5		X L 3	X L 4					X L 10		X L 7	X L 11		
49N 01W 34		X	X		X	X	X	X	X		X	X	X	X	X	X	
49N 01W 35									X								

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>	
94-94-N-007		3		Goulds	.059 cfs	Well #1
94-96-N-002		7.5	L0311761	Goulds	.137 cfs	Well #3
00010076		25	RJBHE6	Goulds	.344 cfs	Well #4

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

D. FLOW MEASUREMENTS

1.

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

2. Measurements:

E. FLOW CALCULATIONS

Measured Method:

☒ Additional Computation Sheets Attached

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

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 60 \text{ ac} \times 3\text{AF} = 180\text{AF}$$

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

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 180 \text{ AF}$$

2. Volume Calculations for Other Uses: Domestic 120 Homes X 0.6AF= 72 AF

$$0.2 \text{ cfs} \times 365 \text{ days per year} = 145 \text{ AF}$$

G. NARRATIVE/REMARKS/COMMENTS : The annual volume to be 145 AFA based on the (Diversion rate X 365 days per year) = 145.00 AFA. The Irrigation and Domestic volume combined is 252 AF that will not be a volume that can be reached by the rate of flow 0.2cfs per year. This water right needs to be amended to Municipal use and add well # 4 POD.

Have conditions of permit approval been met? X 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	0.200 CFS	145.00 AF
<u>Totals:</u>		0.200 CFS	145.00 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 Eric J. Harris Date 9-8-2008
 Reviewer [Signature] Date 10/2/8



1. DRILLING PERMIT NO. 94 . 94 . N . 0007 . 000
Other IDWR No. 94-07367

2. OWNER: ROSE LAKE WATER ASSOCIATION #2
Name _____
Address BOX 178 _____
City CATALDO State ID Zip 83810

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

		N	
X			

Twp. 49 North ☒ or South ☐
Rge. 01 East ☐ or West ☒
Sec. 33 , 1/4 NW 1/4 NW 1/4
Gov't Lot _____ County Kootenai

Address of Well Site N DOYLE ROAD
City

Lt. _____ Blk. _____ Sub. Name _____

4. PROPOSED USE:

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

5. TYPE OF WORK

☒ New Well ☐ Modify or Repair ☐ Replacement ☐ Abandonment

6. DRILL METHOD

☐ Mud Rotary ☒ Air Rotary ☐ Cable ☐ Other _____

7. SEALING PROCEDURES

SEAL/FILTER PACK			AMOUNT	METHOD
Material	From	To	Sacks or Pounds	
BENTONITE	0	30	9 sacks	Crumbles

Was drive shoe used? Y ☒ N ☐

Was drive shoe seal tested? Y ☐ N ☒ How? _____

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Line	Welded	Threaded
6"	+2	84	250	Steel	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length of Headpipe 5' Length of Tailpipe 5'

9. PERFORATIONS/SCREENS

☐ Perforations Method _____

☒ Screens Screen Type _____

From	To	Slot size	Number	Diameter	Material	Casing	Liner
84	94	50/40		5"	Steel	☒	☐
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

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

NWNW 33 49N 1W

11. WELL TESTS:

☐ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
55+			6 hrs

Water Temp. Cold Bottom hole temp. _____

Water Quality test or comments: _____

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

[illegible]

Completed Depth 90' (Measurable)
Date: Started 07/11/94 Completed 07/13/94

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 Shirley Wehner Date 7-27-94

and
Supervisor or Operator Mark L. Lee Date 7-22-94

(Sign once if Firm Official & Operator)

FORWARD WHITE COPY TO WATER RESOURCES

Supervisor or Operator Mark L. Fred Date 2/14/96
(Sign Once at Firm Office and Operator)

NOV 21 1997

IDAHO DEPARTMENT OF WATER RESOURCES

WELL DRILLER'S REPORT

Use Typewriter or Ballpoint Pen

096842

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

1. DRILLING PERMIT NO. 94-97-N-0040-000

Other IDWR No. D3978

2. OWNER

Name Rose Lake Water

Address PO BOX 178

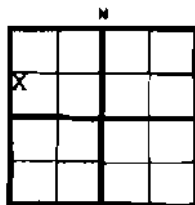
City CATALDO

State ID

Zip 83810-017

3. LOCATION OF WELL by legal description

sketch map location must agree with written location



Twp. 49 ☒ North or ☐ South

Rge. 01 ☐ East or ☒ West

Sec. 34 NW 1/4 SW 1/4 NW 1/4

Gov't Lot _____ County KOOTENAI

Lat: _____ Long: _____

Address of Well Site _____

City CATALDO

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

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

SEAL/FILTER PACK			AMOUNT	METHOD
Material	From	To	Sacks or Pounds	
			8 BAGS	DRY
BENTONITE	0	40	200	GAL SLURRY

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 88

Was drive shoe seal tested? ☐ Y ☐ N How? _____

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
8	+2	88	.250	STEEL	☒	☐	☒	☐
6	-5	420		PSI PVC	☐	☒	☐	☐

Length of Headpipe _____

Length of Teelpipe _____

9. PERFORATIONS/SCREENS

☒ Perforations Method SKILLSAW

☐ Screens Screen Type _____

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
360	420	1/8X4	400	6	PVC	☐	☒

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

50 ft. below ground Artesian pressure _____ lb.

Depth flow encountered _____ ft. Describe access port or control devices: _____

11. WELL TESTS:

☐ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
150 GPM			

Water Temp. _____ Bottom Hole Temp _____

Water Quality test or comments: _____

Depth first Water encountered _____

12. LITHOLOGIC LOG:(Describe repairs or abandonment)

				Water	
From	To	Remarks: Lithology, Water Quality, Temperature	Y	N	
12	0	Topsoil	☐	☒	
12	2	Cemented Gravel w/Clay Yellowish Ta	☐	☒	
10	20	Cemented Gravel W/Clay	☐	☒	
8	82	Shale Redish Green Soft	☐	☒	
8	177	Shale Gray Medium	☐	☒	
8	191	Shale Fractured Gray & Green W/Wate	☒	☐	
8	194	Shale Gray & White Medium Hard	☐	☒	
8	310	Shale Gray & White W/Water 150 GP	☒	☐	
8	407	Shale Gray & White Medium Hard	☐	☒	
	0	One 8" Bolt on Cap	☐	☐	
	0	One 6"x8" Formation Packer	☐	☐	

Completed Depth 420' (Measurable)

Date: Started 11/7/97 Completed 11/10/97

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 WellService, Inc. Firm No. 448

Firm Official [Signature] Date 11/10/97

and Supervisor or Operator [Signature] Date 11/10/97

(Sign Once If Firm Official and Operator)

(Louie Hanner)

NWSWNW 34 49N 1W



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METER 1.JPG



METER.JPG



PSI.JPG



PUMP HOUSE 1.JPG



PUMP HOUSE 2.JPG



SYSTEM.JPG



TAG 10076.JPG



WELL 1.JPG



WELL 1 DATA.JPG



WELL 2.JPG

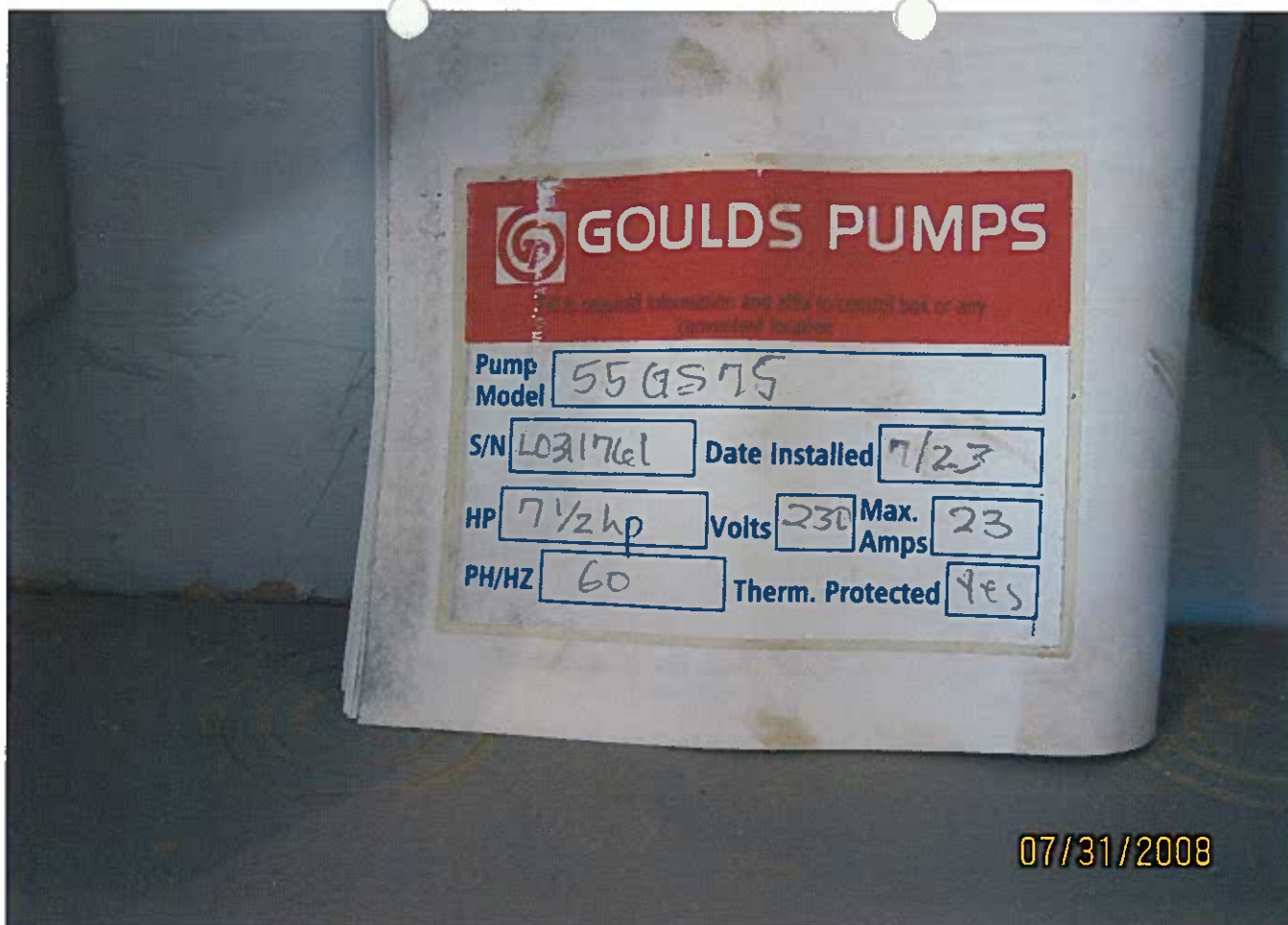


WELL 3 DATA.JPG



WELL 4.JPG

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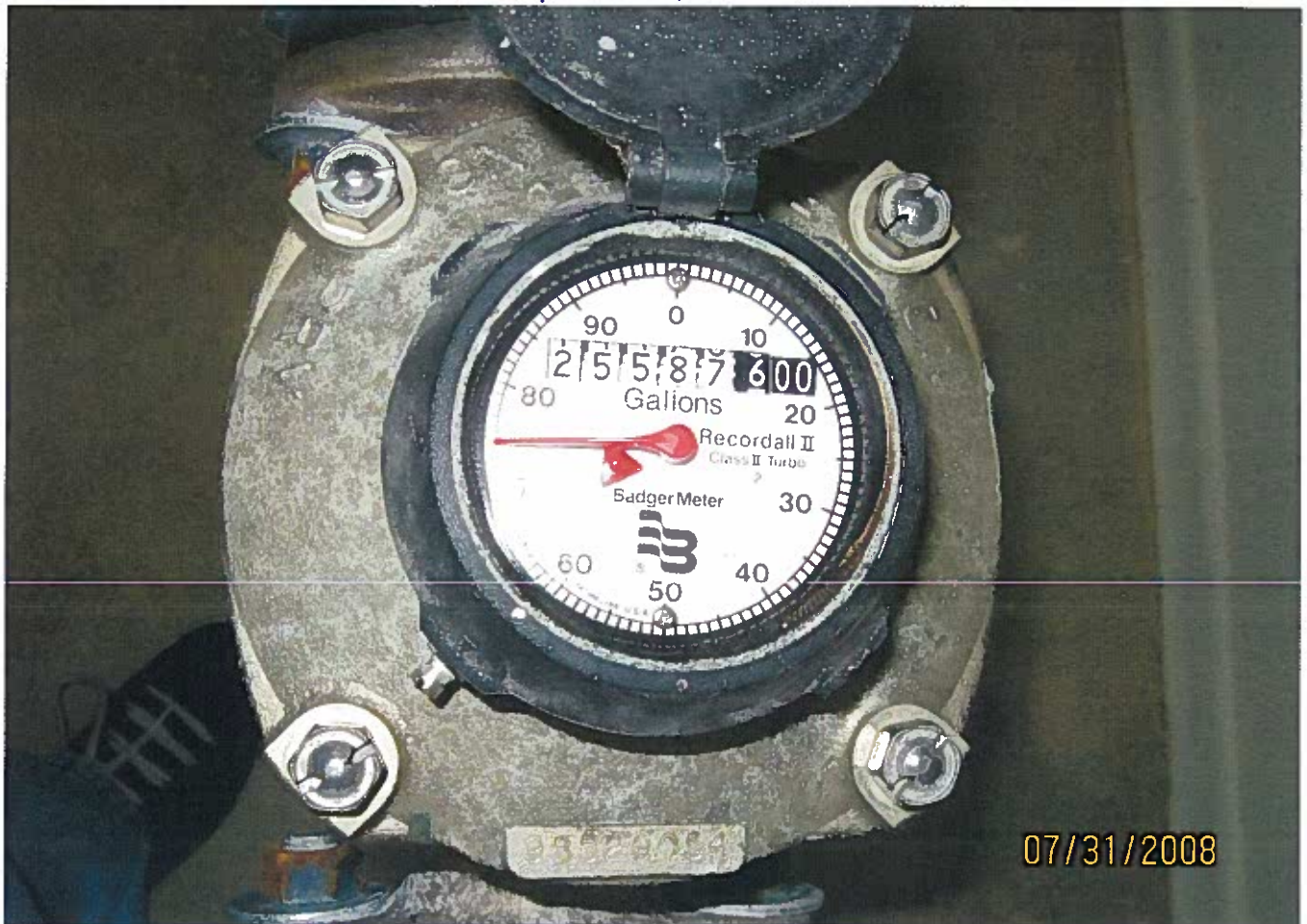


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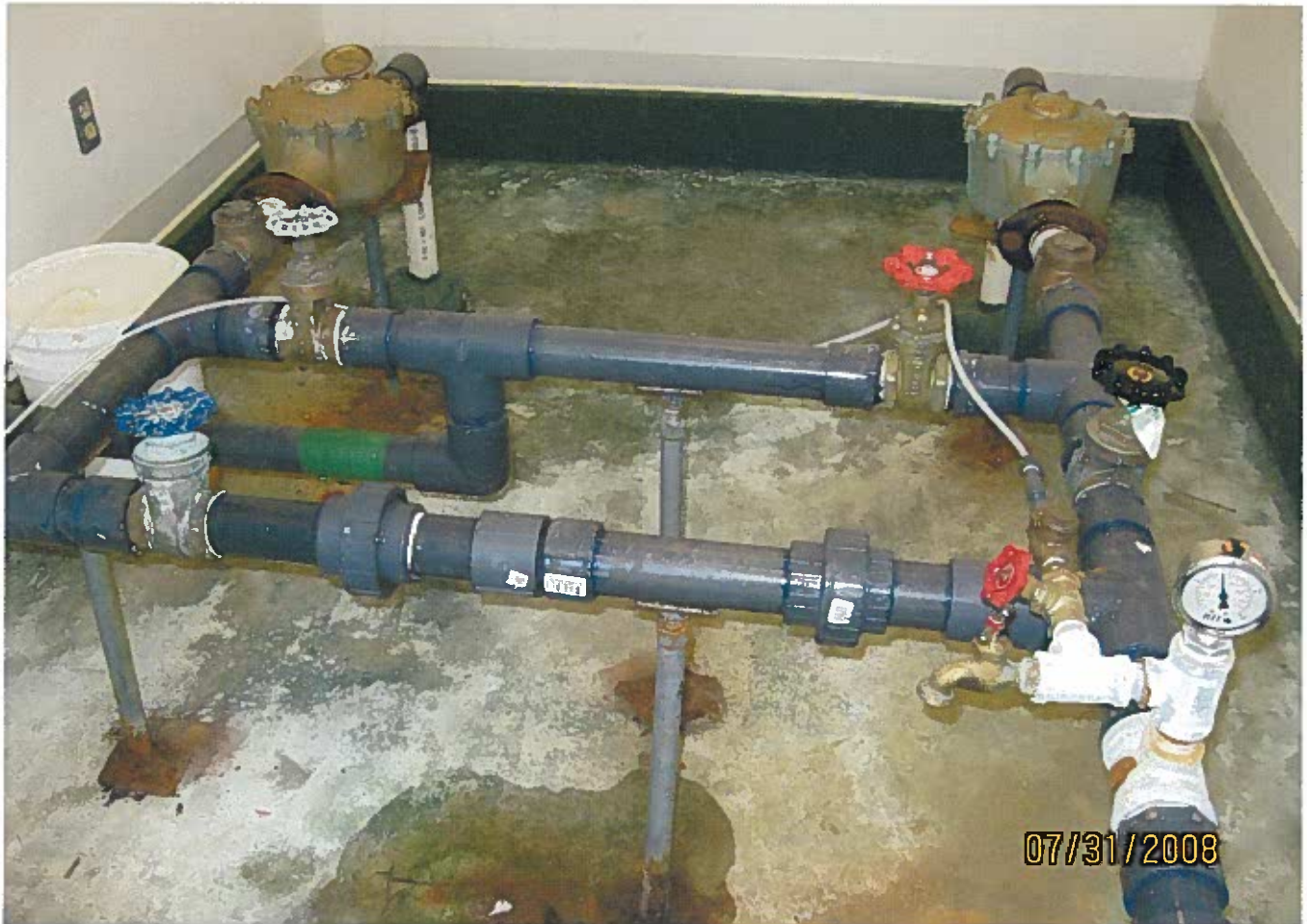


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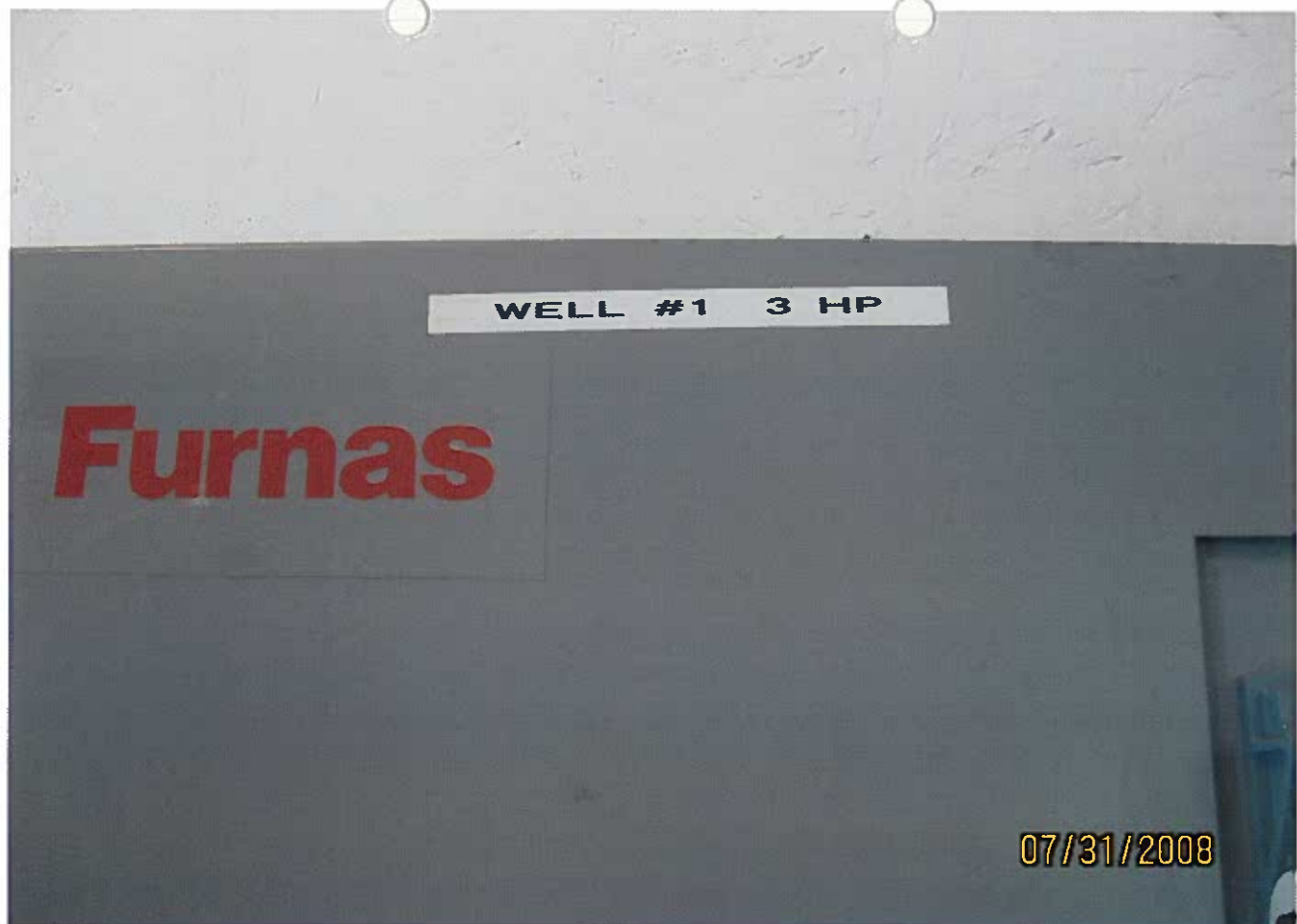
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