

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 95-9365

Exam Date: 3/6/2015

1. Current Owner: RIVERFRONT HOUSE COA INC
601 W MAIN AVE #400
SPOKANE WA 99201
(509) 755-7581
2. Accompanied by: Martin

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 L4 NE1/4SE1/4 Sec. 10, Twp 50N, Rge 04W, B.M. KOOTENAI County

GROUND WATER L4 NE1/4SE1/4 Sec. 10, Twp 50N, Rge 04W, B.M. KOOTENAI County

Method of Determination: GPS and Maps.

2.

PLACE OF USE: HEATING

Twp Rge Sec	NE				NW				SW				SE				Totals
	<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>	
50N 04W 10													X				L 4

PLACE OF USE: COOLING

Twp Rge Sec	NE				NW				SW				SE				Totals
	<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>	
50N 04W 10													X				L 4

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>
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D0051256	FUJI	10			
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D0051261	FUJI	10			
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D0051265 (INJECTION WELL)					
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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: UNABLE TO FIND ADEQUATE LOCATION TO PERFORM FLOW MEASUREMENT.
THEORETICAL PUMPING EQUATION ESTIMATES FLOW AT 175 GPM OR 0.78 CFS WITH BOTH WELLS COMBINED.
SEE ATTACHED THEORETICAL PUMPING EQUATION AND NOTES FROM ENGINEERS.

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:

HEATING: 0.78 CFS X 200 DAYS OF USE X (18 HOURS/ 24 HOURS) 0.75 X 1.9835 = 232.1 AF

COOLING: 0.78 CFS X 165 DAYS OF USE X (18 HOURS/ 24 HOURS) 0.75 X 1.9835 = 191.5 AF

G. NARRATIVE/REMARKS/COMMENTS

FIELD EXAM CONDUCTED ON MARCH 6, 2015. THIS FIELD EXAM WAS TOUGH TO DO BECUASE PERMITTED PROPERTY HAD GONE THROUGH MULTIPLE OWNERSHIPS AND WAS HARD TO SCHEDULE EXAM TIME. CONTACT FOR FIELD EXAM HAD JUST TAKEN OVER SYSTEM AND WAS HOPING IDWR STAFF COULD SHOW HIM HOW IT WORKED. FIELD EXAM SHOWED 2 SUPPLY WELLS AND 1 INJECTION WELL. EXAM OF CONTROL ROOM SHOWED NO SUITABLE SECTION OF PIPE TO DO FLOW MEASUREMENT. THERE ARE 10 HP PUMPS IN EACH SUPPLY WELL SO THEORETICAL PUMPING EQUATION MUST BE USED TO ESTIMATE FLOW RATE. THERE WAS NO FLOW METER ON SYSTEM AND CONTACT FOR EXAM DID NOT KNOW OF ANY RECORDS FOR FLOW RATE OR ANNUAL VOLUME.

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>
HEATING	01/01 to 12/31	0.780 CFS	232.10 AF
COOLING	01/01 to 12/31	0.780 CFS	191.50 AF
<u>Totals:</u>		0.780 CFS	423.60 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 Funderil Date 10-30-2015

Reviewer [Signature] Date 11-03-2015

State of Idaho
Department of Water Resources
Water Right License
95-9365

04W



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

0 0.035 0.07 0.14 Miles

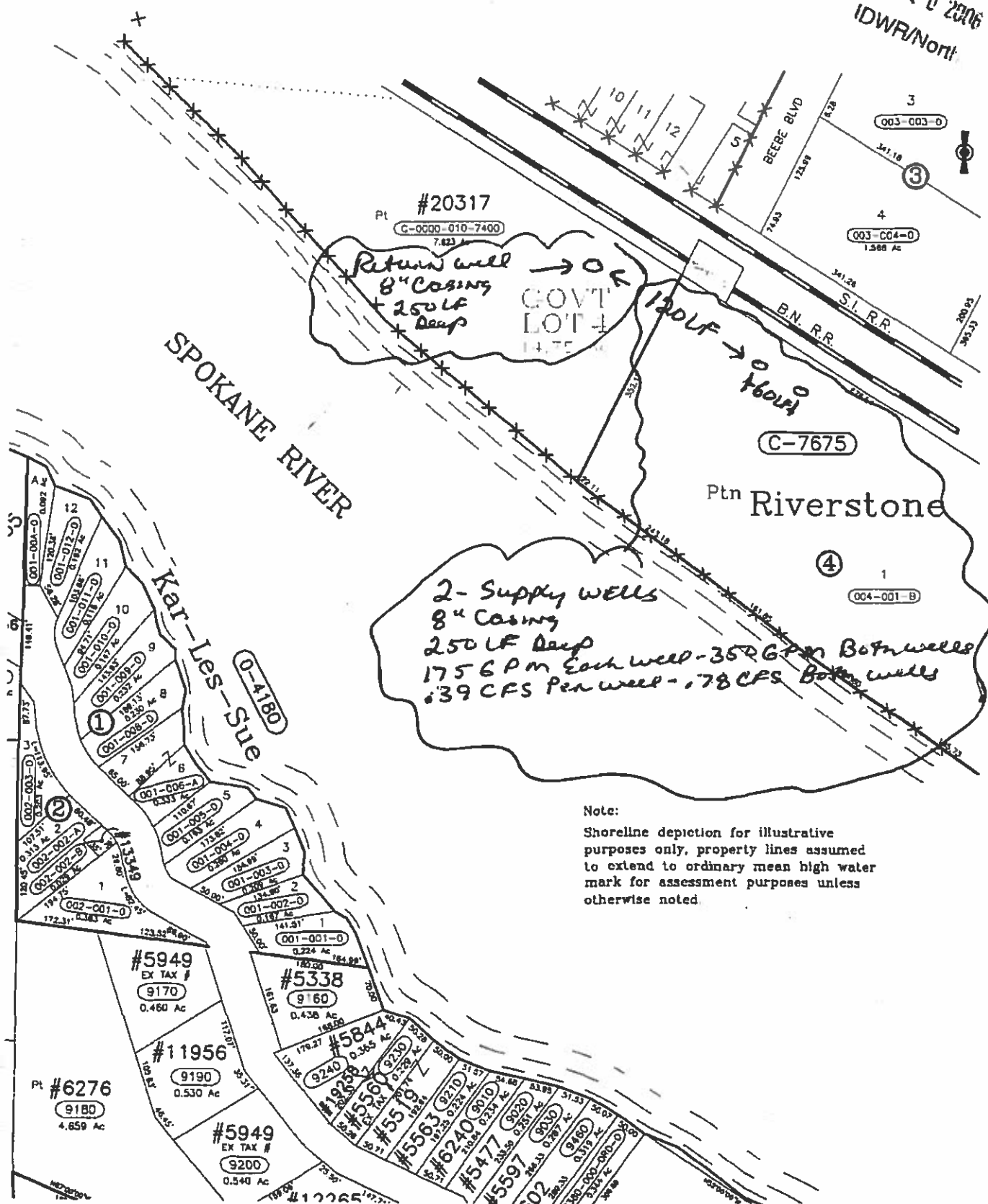


THEORETICAL PUMPING EQUATION FOR WATER RIGHT 95-9365

PUMP EQUATIONS WATER RIGHT No. 95-9365						
		HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q =	$\frac{HP \cdot 8.8 \cdot \text{Eff}}{H}$	10	181.455 8	0.8	82	43
Q = 0.389 cfs 174.4 gpm						

PUMPING CAPACITY IS PER WELL
350 GPM TOTAL OR 0.78 CFS

RECEIVED
OCT 20 2006
IDWR/Norfolk

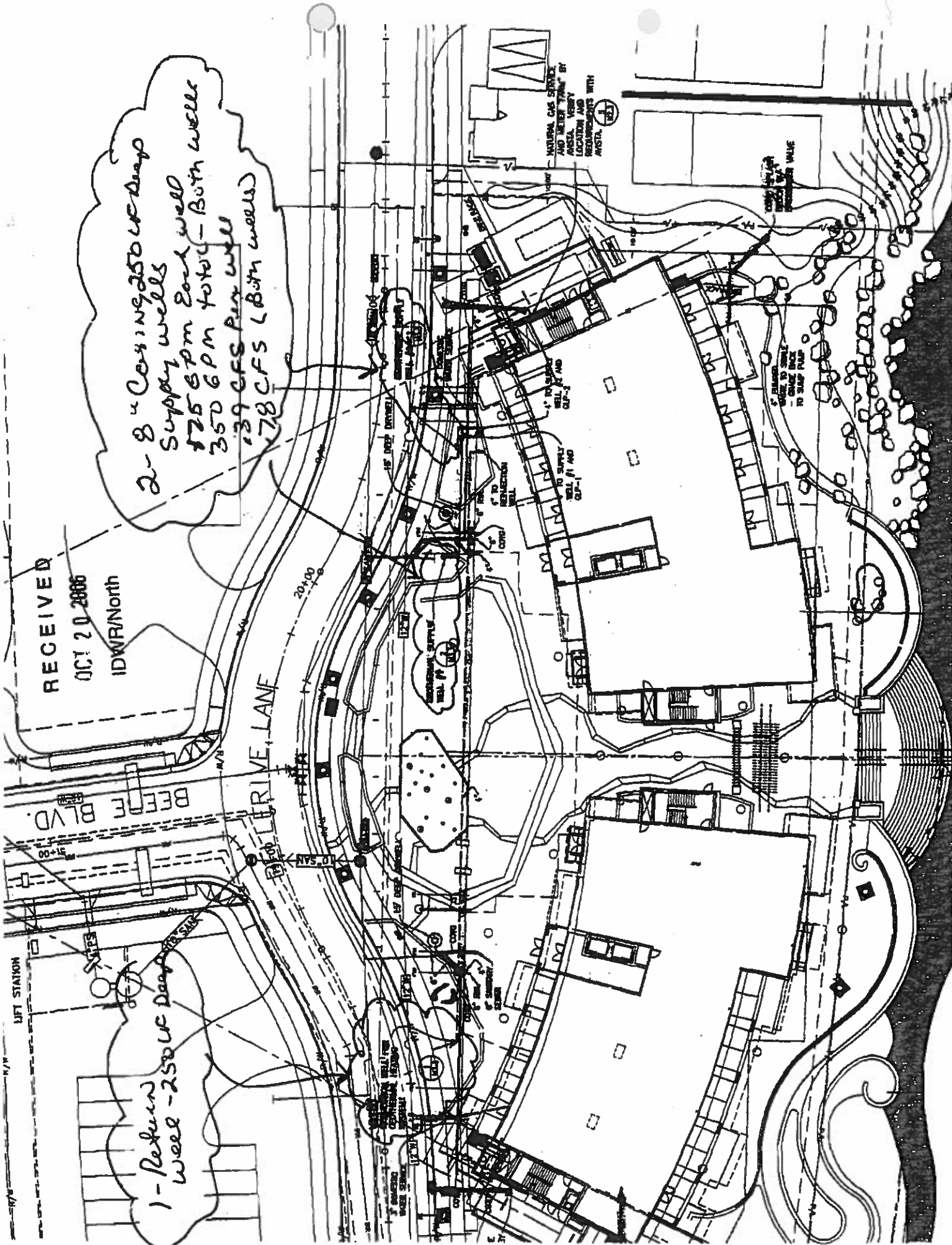


LIFT STATION

RECEIVED
OCT 20 2006
IDWR/North

1- Return
well - 250 W of Deep
Supply wells

2- 8" Casings 250 W of Deep
Supply wells
175 GPM each well - Both wells
350 GPM total - Both wells
139 CFS per well
178 CFS (Both wells)



NATURAL GAS SERVICE
AND METER TANK BY
ARSLA VERY
LOCATION AND
REQUIREMENTS WITH
ARSLA

CONCRETE PAVEMENT
TO STAMP MARK

CONCRETE PAVEMENT
TO STAMP MARK

05/29/2007 16:04

2087625007

ETCO SERVICES

PAGE 02/01

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ETCO SERVICES
2087723135

p.2

May 27 07 10:49p

**PROJECT JOURNAL**

☒ MEMORANDUM	☐ SITE	DATE	_____
☐ DESIGN	☐ CONFERENCE	JOB. NO.	_____
☐ CONSTRUCTION	☐ TELEPHONE	BY	R. Wilkinson

PROJECT	Riverfront House, Coeur d' Alene, ID		
COMPANY:	Etco Services	ATTN:	Howard Rude
SUBJECT:	Ground water use for heating and cooling		
REMARKS:			

Howard,

Please find attached, our groundwater flow calculations for the geothermal heat pump system. These calculations estimate the maximum groundwater flow required to heat and cool the entire building. We estimate the maximum flow rate to be about 300 gallons per minute. The pumps are selected to allow for some safety factor, 350 gallons per minute (0.78 cubic feet per second). This maximum flow will most likely occur on the warmest summer day. During winter and spring/fall months, the flow will be only a fraction of the maximum flow.

We would like to emphasize that the groundwater will be not be consumed in any way and will be returned to the same basin from which it is drawn. In this way, we will not deplete this resource. We only intend to change it's temperature, and otherwise return it in the same condition from which we found it. As we change it's temperature, we will use pumps, piping and heat exchangers to treat it as though it is potable water suitable for drinking, before returning it to the ground.

05/29/2007 16:04

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ETCO SERVICES

PAGE 03/04

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ETCO SERVICES

May 27 07 10:49p

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p.3



Date: 12/15/2005

Project No:

Project Name: Riverfront House/RiversEdge

Subject: Design ground loop

Revision:

By: R. Wilkinson

Problem: Determine: Maximum groundwater flowrate
 Water temperatures at all 4 pipes leading to and from heat exchanger
 Heat Exchanger selection
 Minimum Aqueous Prop. Glycol solution

Assumptions: Sum of Zone Peaks	Summer, m bh	Winter, mbh
Condos	2,237	852
Restaurant East	485	40
Restaurant West	485	40
Switchgear Rm	85	(85)
Elevator Rooms	127	(84)
Total	3,421	783
Adjust for diversity -10%	3,079	705
Adjust for safety factor 25%	3,849	881

Specific Heat of bldg loop fluid, 25% Dowfrost:

Summer (80°F)	0.913	btu/lb-°F
Winter (20°F)	0.949	btu/lb-°F

Analysis: Heat Exchanger

Assume a perfect heat exchanger, Determine required flow rates.

Building Loop Side	Heating Mode	Cooling Mode
Building Loop Entering temperature	20 °F	80 °F
Building Loop Leaving temperature	30 °F	60 °F
Actual ΔT	10 °F	20 °F
Required Building Loop Flow Rate	193 gpm	421 gpm
Groundwater side		
Entering groundwater temperature	45 °F	45 °F
Desired ΔT	10 °F	30 °F
Leaving groundwater temperature	55 °F	75 °F
Required groundwater Flow Rate	176 gpm	257 gpm

Conclusions:

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

ENTERED

Office Use Only
Well ID No. _____
Inspected by _____
Twp _____ Rge _____ Sec _____
1/4 1/4 1/4
Lat: _____ Long: _____

1. WELL TAG NO. D 0051256
DRILLING PERMIT NO. 949491
Water Right or Injection Well No. 95-9365

2. OWNER:
Name River House Development / Howard Rude (ETCO)
Address 912 NW Blvd.
City Coeur d'Alene State ID Zip 83814

3. LOCATION OF WELL by legal description:
You must provide address or Lot, Blk, Sub. or Directions to well.
Twp. 50 North ☒ or South ☐
Rge. 4 East ☐ or West ☒
Sec. 10 1/4 NE 1/4 SE 1/4
Gov't Lot _____ County Boone
Lat: _____ Long: _____
Address of Well Site 1950 Bellerive
City Coeur d'Alene
(Give at least name of road - Distance to Road or Landmark)
Lt. _____ Blk. _____ Sub. Name _____

4. USE:
☐ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☒ Other Closed Loop Heat Pump

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 Material	From	To	Weight / Volume	Seal Placement Method
<u>Bentonite</u>	<u>0</u>	<u>20</u>	<u>7 bags</u>	<u>Overbore</u>

Was drive shoe used? ☒ N ☐ Shoe Depth(s) 87'
Was drive shoe seal tested? ☒ N ☐ How? air pressure

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
<u>8"</u>	<u>+1 1/2</u>	<u>87</u>	<u>.250</u>	<u>steel</u>	☒	☐	☒	☐

Length of Headpipe 88' Length of Tailpipe N/A
Packer ☐ Y ☒ Type _____

9. PERFORATIONS/SCREENS PACKER TYPE

Perforation Method N/A
Screen Type & Method of Installation N/A

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
<u>N/A</u>						☐	☐

10. FILTER PACK

Filter Material	From	To	Weight / Volume	Placement Method
<u>N/A</u>				

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

58 ft. below ground Artesian pressure _____ lb.
Depth flow encountered _____ ft. Describe access port or control devices:
Baked-on well cap

12. WELL TESTS:

☐ Pump ☐ Bailor ☒ Air ☐ Flowing Artesian

Yield gal./min	Drawdown	Pumping Level	Time
<u>60+</u>			

Water Temp. cold Bottom hole temp. cold

Water Quality test or comments: appears clear
Depth first Water Encounter 58'

13. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
<u>12"</u>	<u>0</u>	<u>20</u>	<u>Sand & gravel 2"-</u>		☒
<u>10"</u>	<u>20</u>	<u>45</u>	<u>Sand & gravel 2"-</u>		☒
<u>10</u>	<u>45</u>	<u>65</u>	<u>Sand & silt, fine</u>		☒
<u>10</u>	<u>65</u>	<u>90</u>	<u>gravel, 6"-, clean</u>		☒
<u>10</u>	<u>90</u>	<u>92</u>	<u>Basalt, black, hard</u>		☒

Pulled casing back to 87', developed to clean

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JAN-18 2007

IDWR/North



AQUA DRILLING & EXPLORATION INC.
PO-BOX 2850
HAYDEN, ID 83835-2850

Completed Depth 87' (Measurable)

Date: Started 12/19/06 Completed 12/20/06

14. DRILLER'S CERTIFICATION

I/we certify that all minimum well construction standards were complied with at the time the ng was drilled.

Company Name AQUA DRILLING & EXPLORATION INC. Firm No. 163

Principal Driller Scott M. Braum Date 12-20-06

and Driller or Operator II _____ Date _____

Operator I _____ Date _____

Principal Driller and Rig Operator Required.
Operator I must have signature of Driller/Operator II.

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT



Office Use Only			
Well ID No.			
Inspected by			
Twp	Rge	Sec	
1/4	1/4	1/4	
Lat:	:	Long:	:

1. WELL TAG NO. D 0051261
DRILLING PERMIT NO. 844510
Water Right or Injection Well No. _____

2. OWNER:
Name River House Development / Howard Rude
Address 912 NW Blvd
City Coeur d'Alene State ID Zip 83814

3. LOCATION OF WELL by legal description:
You must provide address or Lot, Blk, Sub. or Directions to well.
Twp. 50 North ☒ or South ☐
Rge. 4 East ☐ or West ☒
Sec. 10 1/4 NE 1/4 SE 1/4
Gov't Lot _____ County Kootenai
Lat: _____ Long: _____
Address of Well Site 1950 Bellerive
City Coeur d'Alene
(Give at least (name of road) + Distance to Road or Landmark)
Lt. _____ Blk. _____ Sub. Name _____

4. USE:
☐ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☒ Other Closed loop Heat Pump

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 Material	From	To	Weight / Volume	Seal Placement Method
<u>Bentonite</u>	<u>0</u>	<u>20</u>	<u>7 Bags</u>	<u>overbore</u>

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 87'
Was drive shoe seal tested? ☒ Y ☐ N How? Air pressure

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
<u>8"</u>	<u>+1 1/2</u>	<u>87</u>	<u>250</u>	<u>steel</u>	☒	☐	☒	☐

Length of Headpipe 88 1/2 Length of Tailpipe N/A
Packer ☐ Y ☒ N Type _____

9. PERFORATIONS/SCREENS PACKER TYPE

Perforation Method N/A
Screen Type & Method of Installation N/A

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
<u>N/A</u>							

10. FILTER PACK

Filter Material	From	To	Weight / Volume	Placement Method
<u>N/A</u>				

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:
58 ft. below ground Artesian pressure _____ lb.
Depth flow encountered _____ ft. Describe access port or control devices: Boit-on well cap

50 N 4 W 10

12. WELL TESTS:
☐ Pump ☐ Bailor ☒ Air ☐ Flowing Artesian
Yield gal./min. 60+ Drawdown _____ Pumping Level _____ Time _____
Need to Test Pump to confirm more water
Water Temp. Cold Bottom hole temp. Cold
Water Quality test or comments: appears clear

13. LITHOLOGIC LOG: (Describe repairs or abandonment) Water

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
<u>12"</u>	<u>0</u>	<u>20</u>	<u>Sand + Gravel 2"-</u>		☒
<u>10"</u>	<u>30</u>	<u>45</u>	<u>Sand + Gravel 2"-</u>		☒
<u>10"</u>	<u>45</u>	<u>65</u>	<u>Sand + Silt fine</u>	☒	
<u>10"</u>	<u>65</u>	<u>90</u>	<u>Gravel 6"- clean</u>	☒	
<u>10"</u>	<u>90</u>	<u>92</u>	<u>Basalt Broken</u>	☒	
<u>10"</u>	<u>92</u>	<u>94</u>	<u>Clay, Tan</u>		☒

RECEIVED

JAN 3

IDWB/North



AQUA DRILLING
& EXPLORATION INC.
PO BOX 2850
HAYDEN, ID 83835-2850

Completed Depth 87' (Measurable)
Date: Started 12-20-06 Completed 12-21-06

14. DRILLER'S CERTIFICATION
I/We certify that all minimum well construction standards were complied with at the time the rig was used.
Company Name AQUA DRILLING & EXPLORATION INC. Firm No. 163
Principal Driller Scott M. Baumler Date 12-22-06
and
Driller or Operator II _____ Date _____
Operator I _____ Date _____

Principal Driller and Rig Operator Required.
Operator I must have signature of Driller/Operator II.

IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

Office Use Only
Well ID No. _____
Inspected by _____
Twp _____ Rge _____ Sec _____
1/4 _____ 1/4 _____ 1/4 _____
Lat: _____ Long: _____

1. WELL TAG NO. D 0051265
DRILLING PERMIT NO. 945168
Water Right or Injection Well No. _____

2. OWNER:
Name Riverhouse Development/Attn. Howard Rude
Address 912 Northwest Blvd.
City Coeur d'Alene State Id. Zip 83814

3. LOCATION OF WELL by legal description:

You must provide address or Lot, Blk, Sub. or Directions to well.

Twp. 30 North ☒ or South ☐
Rge. 4 East ☐ or West ☒
Sec. 10 1/4 NE 1/4 SE 1/4
Gov't Lot _____
County Kootenai
Lat: _____ Long: _____
Address of Well Site 1950 Bellevue
City Coeur d'Alene

(Give at least name of road - Distance to Road or Landmark)
Lt. _____ Blk. _____ Sub. Name _____

4. USE:

☐ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☒ Injection ☒ Other Closed Loop heat pump

5. TYPE OF WORK check all that apply

☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____ (Replacement etc.)

6. DRILL METHOD:

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

Seal Material	From	To	Weight / Volume	Seal Placement Method
<u>Bentonite</u>	<u>0</u>	<u>20</u>	<u>350 lbs</u>	<u>overbore</u>

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 8" Ringbit

Was drive shoe seal tested? ☒ Y ☐ N How? air pressure

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
<u>8" +1</u>	<u>-104</u>	<u>250</u>	<u>Steel</u>	<u>Steel</u>	☒	☐	☒	☐

Length of Headpipe _____ Length of Tailpipe _____

Packer ☐ Y ☒ N Type _____

9. PERFORATIONS/SCREENS PACKER TYPE

Perforation Method N/A

Screen Type & Method of Installation N/A

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
						☐	☐

10. FILTER PACK

Filter Material	From	To	Weight / Volume	Placement Method

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

83 ft. below ground Artesian pressure _____ lb.

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

8" Bolted Well Cap

50 N 4 W 10

12. WELL TESTS:

☐ Pump ☐ Bailor ☒ Air ☐ Flowing Artesian

Yield gal./min	Drawdown	Pumping Level	Time
<u>5</u>			

Water Temp. Cool Bottom hole temp. Cool

Water Quality test or comments: Good

13. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Water	Y	N
<u>12"</u>	<u>0</u>	<u>20</u>				
<u>10"</u>	<u>20</u>	<u>104</u>				
<u>8"</u>	<u>104</u>	<u>218</u>				
	<u>0</u>	<u>3</u>	<u>Gravel Fill</u>			
	<u>3</u>	<u>18</u>	<u>Clay & Gravel</u>			
	<u>18</u>	<u>55</u>	<u>Small Gravel Clay</u>			
	<u>55</u>	<u>76</u>	<u>Clay & Silt</u>			
	<u>76</u>	<u>90</u>	<u>grey Clay</u>			
	<u>90</u>	<u>102</u>	<u>Brown Clay & Large Gravel</u>			
	<u>102</u>	<u>198</u>	<u>Basalt</u>			☒
	<u>198</u>	<u>208</u>	<u>White Clay & Decomposed Granite</u>			
	<u>208</u>	<u>218</u>	<u>Firm Decomposed Granite</u>			



AQUA DRILLING & EXPLORATION INC.
PO BOX 2850
HAYDEN, ID 83835-2850

RECEIVED
JAN 26 2007
IDWR/North

Completed Depth 218' (Measurable)

Date: Started 12-21-06 Completed 12-26-06

14. DRILLER'S CERTIFICATION

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

AQUA DRILLING & EXPLORATION INC. Firm No. 163

Principal Driller Scott M. Baumbach Date 12-27-06

and Driller or Operator II Wayne Miller Date 12-27-06

Operator I _____ Date _____

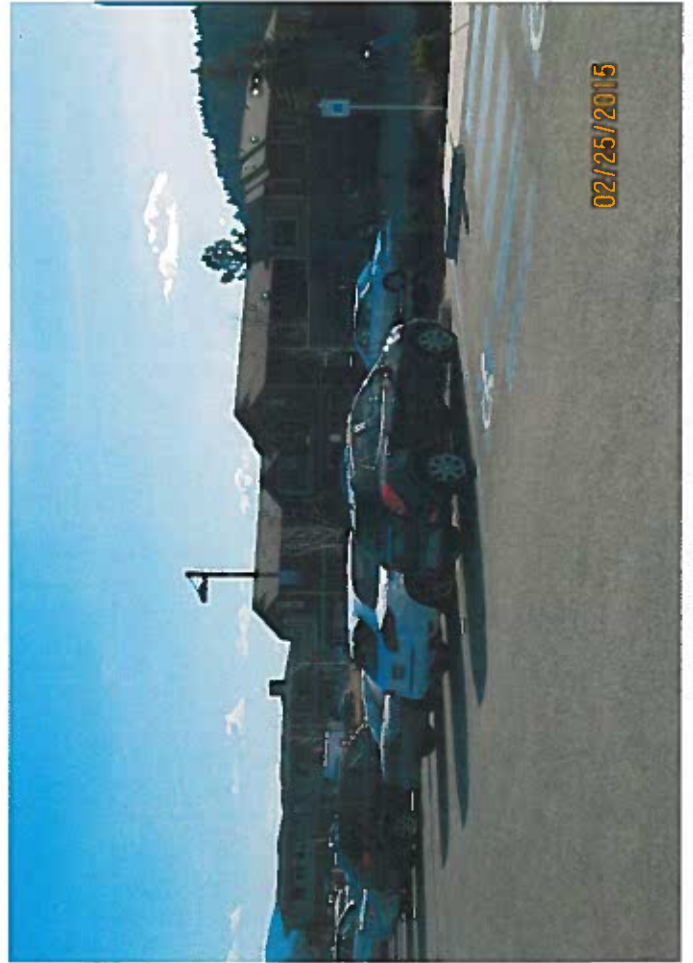
Principal Driller and Rig Operator Required.
Operator I must have signature of Driller/Operator II.



02/25/2015



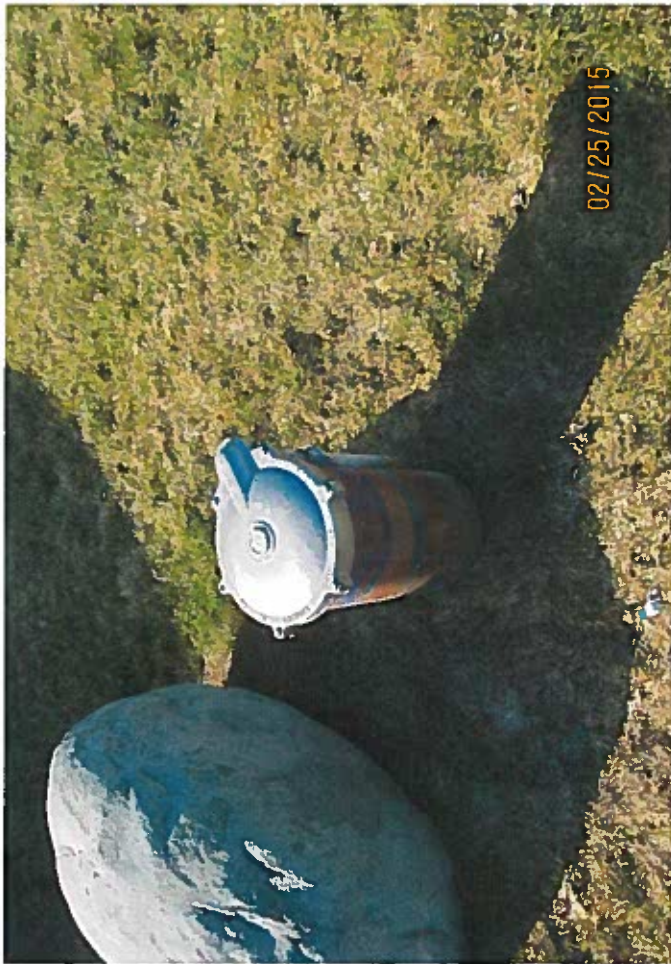
02/25/2015



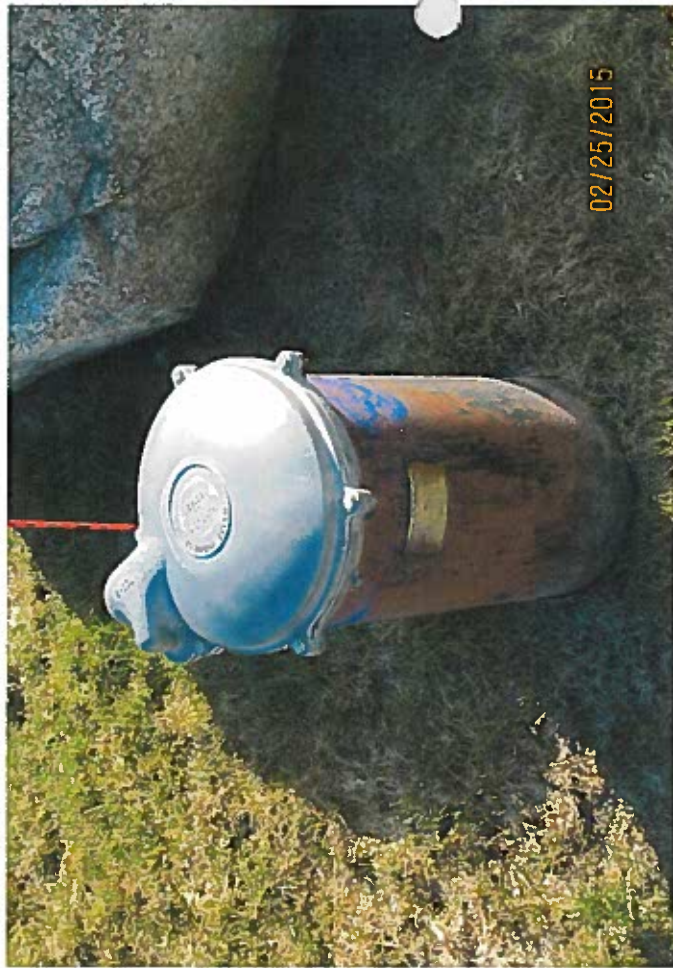
02/25/2015



02/25/2015



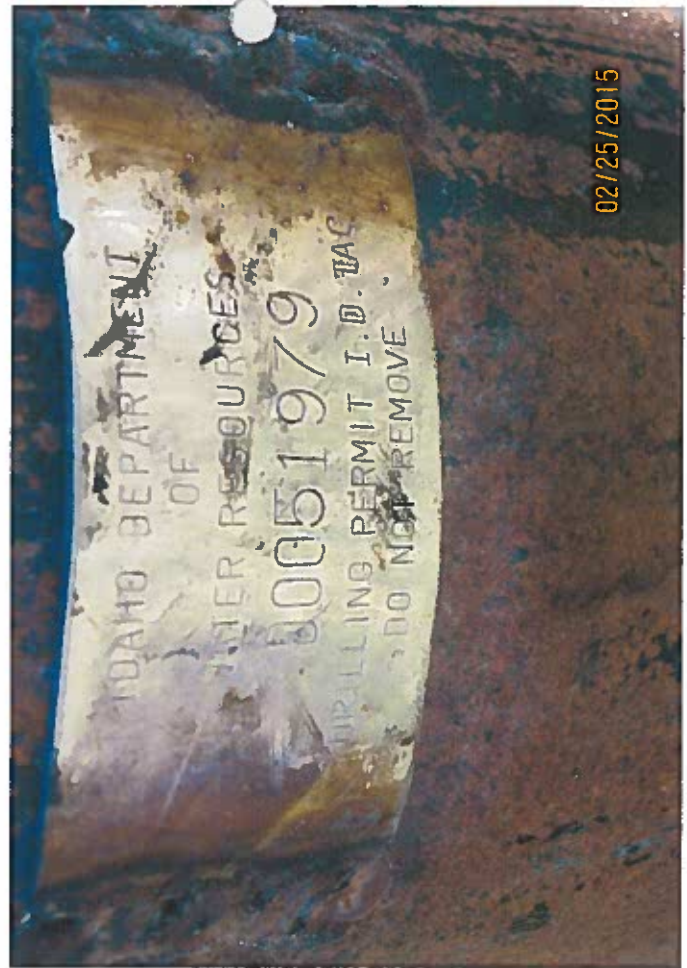
02/25/2015



02/25/2015

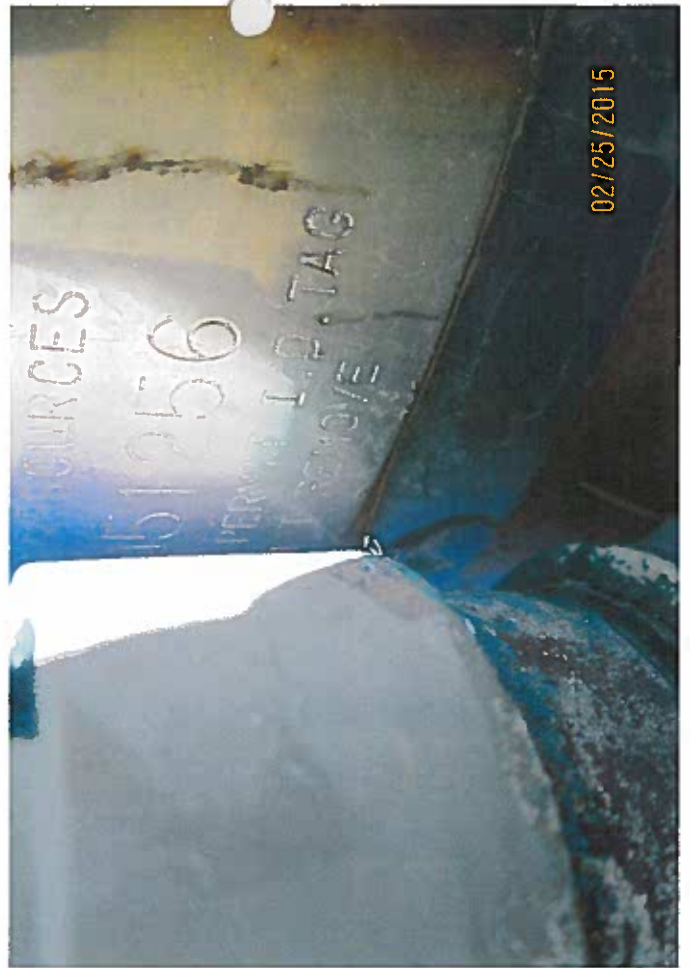


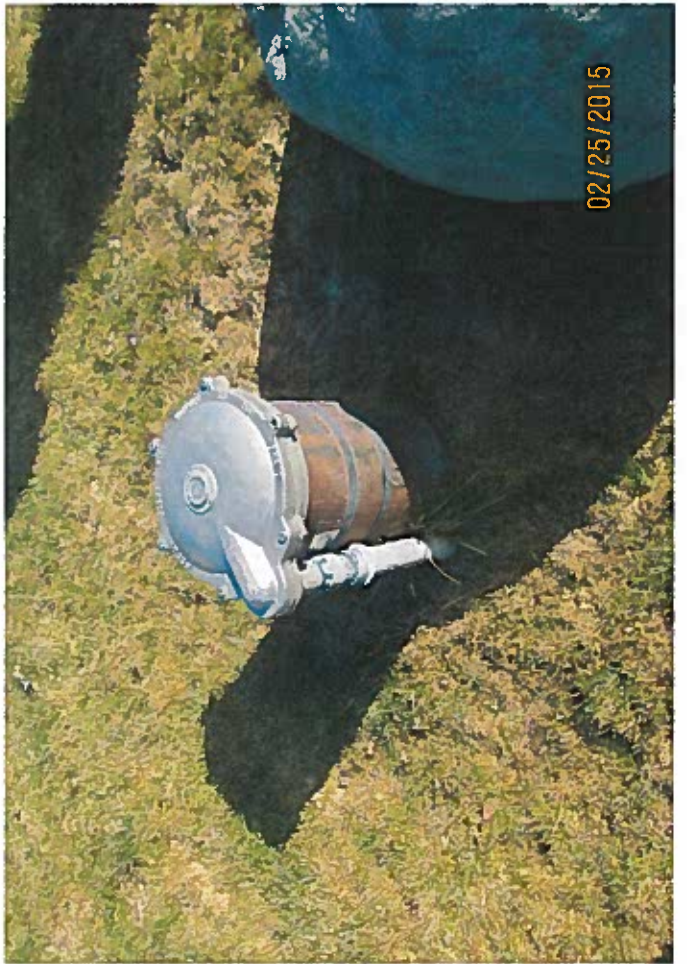
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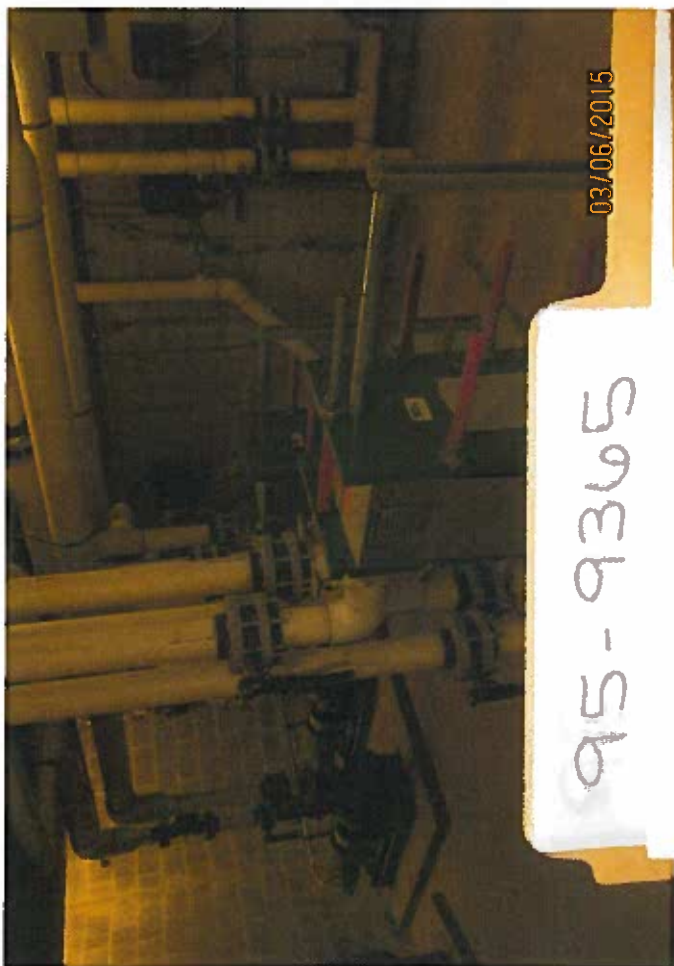


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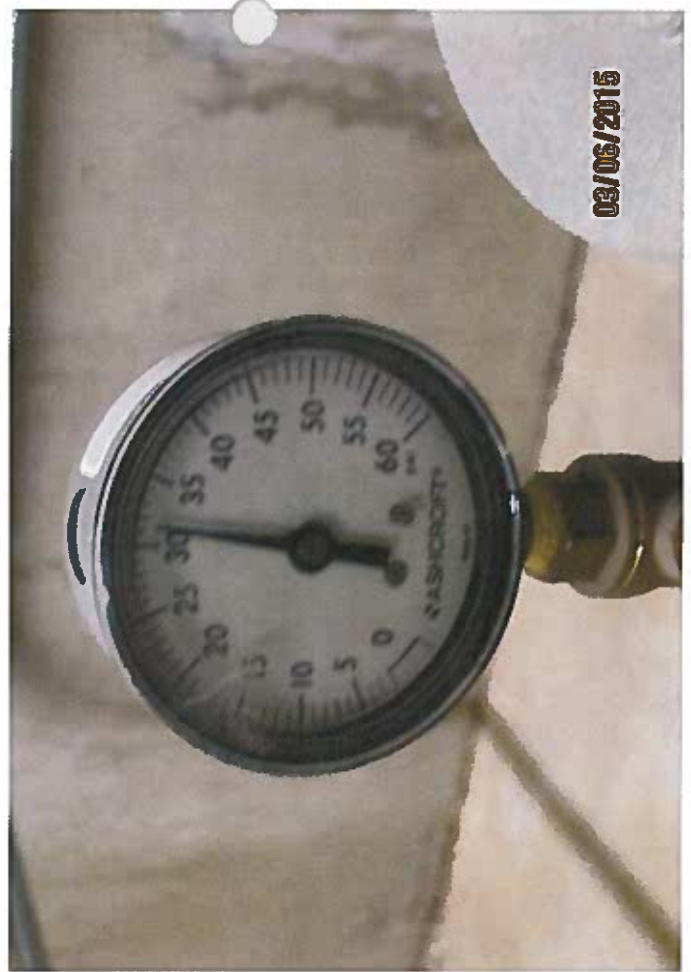
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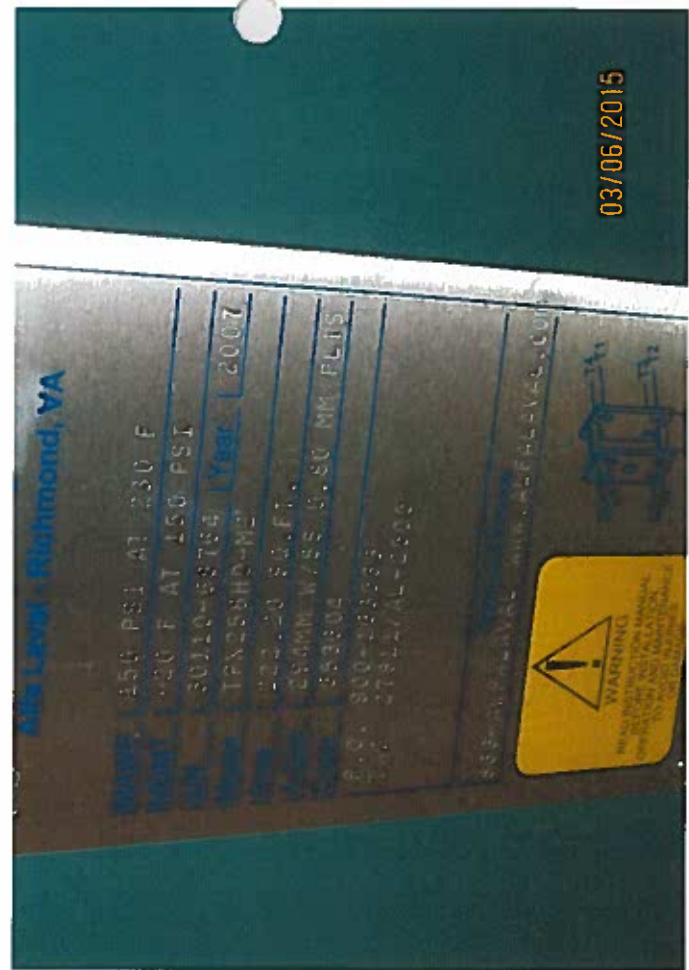
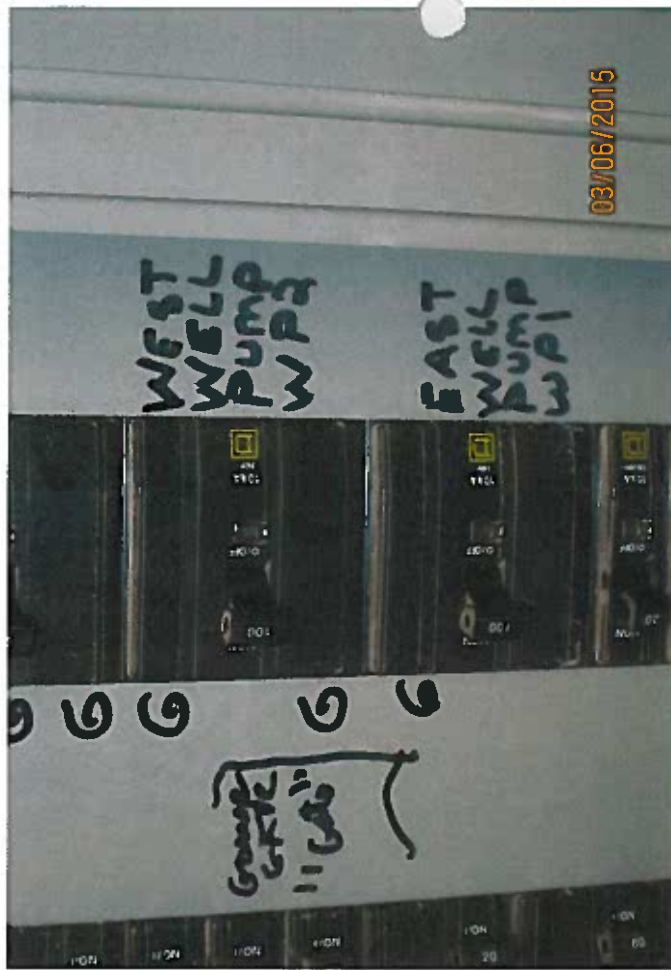




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