MUNICIPAL
WELL & PUMP

Test of Well Report

Job #	LJ17-711

Customer Name	Iowa Premium	Date	12/19/2017

Test Information									
Well No:	Well 2	Well Location	3337 L Avenue					Tested By	Jason Barsema
Dia. Orifice	10 x 8	Static Level	280 ft	in		Well Depth		ft	
Drilled by		Length of Airline			400	Gauge to Ground Level:		ft	in
Pump Set to Disharge Nozzle		400 ft				To Tail Pipe		ft	

Reading No:	Time	Inches on orifice	GPM	Alt. Ga. in Feet	Pumping Level Ft.	Drawdown in Feet	Back Pressure	Specific Capacity	Water Appearance: clear, cloudy, murky muddy, sandy, temp., odor
	Start		0	120.0	280.0	0.0		0.00	
1	9:07 AM	5	674	88.0	312.0	32.0	20	21.06	Brown
2	9:10 AM	6.5	768	80.0	320.0	40.0	28	19.20	Clearing
3	9:13 AM	6.5	768	80.0	320.0	40.0	29	19.20	
4	9:17 AM	6.5	768	79.0	321.0	41.0	28	18.73	
5	9:22 AM	6.5	768	79.0	321.0	41.0	28	18.73	
6	9:27 AM	6.5	768	79.0	321.0	41.0	28	18.73	
7	9:33 AM	6.5	768	78.0	322.0	42.0	28	18.29	
8	9:38 AM	6.5	768	78.0	322.0	42.0	28	18.29	
9	9:43 AM	6.5	768	78.0	322.0	42.0	28	18.29	
10	9:48 AM	6.5	768	78.0	322.0	42.0	28	18.29	
11	9:53 AM	6.5	768	77.0	323.0	43.0	28	17.86	
12	9:58 AM	6.5	768	77.0	323.0	43.0	28	17.86	
13	10:03 AM	6.5	768	77.0	323.0	43.0	28	17.86	
14	10:08 AM	6.5	768	77.0	323.0	43.0	28	17.86	
15	10:14 AM	6.5	768	77.0	323.0	43.0	28	17.86	
16	10:24 AM	6.5	768	76.0	324.0	44.0	28	17.45	
17	10:30 AM	6.5	768	76.0	324.0	44.0	28	17.45	
18	11:00 AM	12	1,044	54.0	346.0	66.0	52	15.82	
19	11:01 AM	12.5	1,065	53.0	347.0	67.0	50	15.90	

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Test of Well Report

Job Number	LJ17-711

Customer Name	Iowa Premium			Orifice Size	10 x 8		
Static Water Level	280	Length of Airline	400	Pump Set	400	Page #	2

Reading No:	Time	Inches on orifice	GPM	Alt. Gs. in Feet	Pumping Level Ft.	Drawdown in Feet	Back Pressure	Specific Capacity	Water Appearance: clean, cloudy, murky muddy, sandy, temp., odor
20	11:02 AM	12.5	1,065	53.0	347.0	67.0	50	15.90	
21	11:03 AM	12.5	1,065	53.0	347.0	67.0	50	15.90	
22	11:04 AM	12.5	1,065	53.0	347.0	67.0	50	15.90	
23	11:05 AM	12.5	1,065	53.0	347.0	67.0	50	15.90	
24	11:15 AM	12.5	1,065	52.0	348.0	68.0	50	15.66	
25	11:25 AM	12	1,044	51.0	349.0	69.0	50	15.13	
26	11:35 AM	12	1,044	51.0	349.0	69.0	50	15.13	
27	11:45 AM	12	1,044	51.0	349.0	69.0	50	15.13	
28	12:00 PM	12	1,044	51.0	349.0	69.0	50	15.13	
29	12:30 PM	12	1,044	50.0	350.0	70.0	50	14.91	
30	1:00 PM	12	1,044	49.0	351.0	71.0	50	14.70	
31	1:05 PM	20	1,348	25.0	375.0	95.0	13	14.19	
32	1:10 PM	20	1,348	24.0	376.0	96.0	13	14.04	
33	1:15 PM	20	1,348	24.0	376.0	96.0	13	14.04	Water temp 64 degrees F
34	1:30 PM	20	1,348	23.0	377.0	97.0	13	13.90	
35	1:45 PM	20	1,348	23.0	377.0	97.0	13	13.90	
36	2:00 PM	20	1,348	22.0	378.0	98.0	13	13.76	
37	2:15 PM	19.5	1,331	22.0	378.0	98.0	13	13.58	
38	2:30 PM	19.5	1,331	22.0	378.0	98.0	13	13.58	
39	2:45 PM	19.5	1,331	21.0	379.0	99.0	13	13.44	
40	3:00 PM	19.5	1,331	21.0	379.0	99.0	13	13.44	
41	3:05 PM	24.5	1,491	8.0	392.0	112.0	7	13.31	
42	3:15 PM	24.5	1,491	7.0	393.0	113.0	7	13.19	
43	3:30 PM	24.5	1,491	6.0	394.0	114.0	7	13.08	
44	3:45 PM	24	1,476	6.0	394.0	114.0	7	12.95	
45	4:00 PM	24	1,476	6.0	394.0	114.0	7	12.95	
46	4:15 PM	24	1,476	6.0	394.0	114.0	7	12.95	
47	4:30 PM	24	1,476	7.0	393.0	113.0	7	13.06	
48	4:45 PM	24	1,476	7.0	393.0	113.0	7	13.06	
49	5:00 PM	24	1,476	7.0	393.0	113.0	7	13.06	
50					400.0	120.0		15.90	

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Test of Well Report

Job #	LJ17-711

Customer Name	Iowa Premium

Date	12/20/2017

Test Information									
Well No:	2	Well Location	3337 L Avenue				Tested By	Robert Tauke	
Dia. Orifice	10 x 8	Static Level	280 ft	in		Well Depth	1920 ft		
Drilled by		Length of Airline			400	Gauge to Ground Level:	ft	in	
Pump Set to Disharge Nozzle		400 ft				To Tail Pipe	ft		

Reading No:	Time	Inches on orifice	GPM	Alt. Ga. in Feet	Pumping Level Ft.	Drawdown in Feet	Back Pressure	Specific Capacity	Water Appearance: clear, cloudy, murky muddy, sandy, temp., odor
	Start		0	120.0	280.0	0.0			
1	8:00 AM	21	1,381	69.0	331.0	51.0	7	27.08	
2	8:02 AM	21	1,381	61.0	339.0	59.0	7	23.41	
3	8:03 AM	20.5	1,364	55.0	345.0	65.0	7	20.98	
4	8:04 AM	20.5	1,364	49.0	351.0	71.0	7	19.21	
5	8:05 AM	21.5	1,397	47.0	353.0	73.0	7	19.14	
6	8:06 AM	21	1,381	44.0	356.0	76.0	7	18.17	
7	8:07 AM	20	1,348	35.0	365.0	85.0	7	15.86	
8	8:08 AM	20	1,348	34.0	366.0	86.0	7	15.67	
9	8:09 AM	19	1,313	37.0	363.0	83.0	7	15.82	
10	8:10 AM	19	1,313	35.0	365.0	85.0	7	15.45	
11	8:15 AM	19	1,313	35.0	365.0	85.0	7	15.45	Rossum sand separator .1ml iron sc
12	8:20 AM	19	1,313	34.0	366.0	86.0	7	15.27	
13	8:25 AM	19	1,313	33.0	367.0	87.0	7	15.09	
14	8:30 AM	19	1,313	32.0	368.0	88.0	7	14.92	8:15-8:30 .1 ml white sand
15	8:35 AM	19	1,313	31.0	369.0	89.0	7	14.75	
16	8:40 AM	19	1,313	31.0	369.0	89.0	7	14.75	Well 1-82' pump running
17	8:45 AM	19	1,313	31.0	369.0	89.0	7	14.75	
18	8:50 AM	19	1,313	31.0	369.0	89.0	7	14.75	
19	8:55 AM	19	1,313	30.0	370.0	90.0	7	14.59	

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Test of Well Report

Job Number	LJ17-711

Customer Name	Iowa Premium			Orifice Size	10 x 8		
Static Water Level	280	Length of Airline	400	Pump Set	400	Page #	2

Reading No:	Time	Inches on orifice	GPM	Alt. Ga. in Feet	Pumping Level Ft.	Drawdown in Feet	Back Pressure	Specific Capacity	Water Appearance: clear, cloudy, murky, muddy, sandy, temp., odor
20	9:00 AM	19	1,313	30.0	370.0	90.0	7	14.59	
21	9:10 AM	19	1,313	29.0	371.0	91.0	7	14.43	
22	9:20 AM	19	1,313	29.0	371.0	91.0	7	14.43	
23	9:30 AM	18.75	1,305	29.0	371.0	91.0	7	14.34	
24	9:40 AM	18.75	1,305	28.0	372.0	92.0	7	14.18	
25	9:50 AM	18.75	1,305	28.0	372.0	92.0	7	14.18	
26	10:00 AM	18.75	1,305	27.0	373.0	93.0	7	14.03	
27	10:30 AM	18.75	1,305	27.0	373.0	93.0	7	14.03	Well 1 82' pump running
28	11:00 AM	18.75	1,305	26.0	374.0	94.0	7	13.88	
29	11:30 AM	18.75	1,305	26.0	374.0	94.0	7	13.88	
30	12:00 PM	19	1,313	23.0	377.0	97.0	7	13.54	8:30-12pm .4ml sand
31	12:30 PM	19	1,313	23.0	377.0	97.0	7	13.54	Well 1 77' pump running
32	1:00 PM	19	1,313	22.0	378.0	98.0	7	13.40	
33	1:30 PM	19	1,313	22.0	378.0	98.0	7	13.40	
34	2:00 PM	19	1,313	21.0	379.0	99.0	7	13.26	Well 1 74' pump running
35	2:30 PM	19	1,313	21.0	379.0	99.0	7	13.26	
36	3:00 PM	19	1,313	21.0	379.0	99.0	7	13.26	
37	3:30 PM	19	1,313	20.0	380.0	100.0	7	13.13	Well 1 75' pump running
38	4:00 PM	19	1,313	21.0	379.0	99.0	7	13.26	12pm-4 pm .2ml white sand
39	4:30 PM	19	1,313	21.0	379.0	99.0	7	13.26	
40	5:00 PM	18.75	1,305	21.0	379.0	99.0	7	13.18	Well1 85' pump running
41	5:30 PM	18.75	1,305	22.0	378.0	98.0	7	13.32	
42					400.0	120.0		0.00	
43					400.0	120.0		0.00	
44					400.0	120.0		0.00	
45					400.0	120.0		0.00	
46					400.0	120.0		0.00	
47					400.0	120.0		0.00	
48					400.0	120.0		0.00	
49					400.0	120.0		0.00	
50					400.0	120.0		14.59	

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Test of Well Report

Job #	LJ17-711

Customer Name	Iowa Premium

Date	12/20/2017

Test Information

Well No:	Well 2	Well Location	3337 L Avenue					Tested By	Jason Barsema
Dia. Orifice	10 x 8	Static Level	280 ft	in		Well Depth		1920 ft	
Drilled by		Length of Airline			400	Gauge to Ground Level:		ft	in
Pump Set to Disharge Nozzle		400 ft				To Tail Pipe		ft	

Reading No:	Time	Inches on orifice	GPM	Alt. Gs. in Feet	Pumping Level Ft.	Drawdown in Feet	Back Pressure	Specific Capacity	Water Appearance: clear, cloudy, murky muddy, sandy, temp., odor
	Start		0						4:00 sand was at .8 ml
1	6:00 PM	18.75	1,305	22.0	378.0	98.0	7	13.32	
2	6:30 PM	18.75	1,305	22.0	378.0	98.0	7	13.32	
3	7:00 PM	18.75	1,305	22.0	378.0	98.0	7	13.32	
4	7:30 PM	18.75	1,305	22.0	378.0	98.0	7	13.32	
5	8:00 PM	19	1,313	21.0	379.0	99.0	7	13.26	4 to 8 .1 ml of sand
6	8:30 PM	19	1,313	21.0	379.0	99.0	7	13.26	Well #1 80ft running
7	9:00 PM	19	1,313	20.0	380.0	100.0	7	13.13	
8	9:30 PM	19	1,313	21.0	379.0	99.0	7	13.26	
9	10:00 PM	19	1,313	20.0	380.0	100.0	7	13.13	Well #1 80ft running
10	10:30 PM	19	1,313	20.0	380.0	100.0	7	13.13	
11	11:00 PM	19	1,313	19.0	381.0	101.0	7	13.00	
12	11:30 PM	19	1,313	19.0	381.0	101.0	7	13.00	
13	12:00 AM	18.75	1,305	19.0	381.0	101.0	7	12.92	8 to 12am .1 ml of sand
14	12:30 AM	18.75	1,305	19.0	381.0	101.0	7	12.92	Well #1 75ft running
15	1:00 AM	18.75	1,305	19.0	381.0	101.0	7	12.92	
16	1:30 AM	18.75	1,305	19.0	381.0	101.0	7	12.92	
17	2:00 AM	18.75	1,305	19.0	381.0	101.0	7	12.92	
18	2:30 AM	18.75	1,305	19.0	381.0	101.0	7	12.92	Well #1 80ft running
19	3:00 AM	18.75	1,305	19.0	381.0	101.0	7	12.92	

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Test of Well Report

Job Number	LJ17-711

Customer Name	Iowa Premium			Orifice Size	10 x 8		
Static Water Level	280	Length of Airline	400	Pump Set	400	Page #	2

Reading No:	Time	Inches on orifice	GPM	Alt. Ga. in Feet	Pumping Level Ft.	Drawdown in Feet	Back Pressure	Specific Capacity	Water Appearance: clear, cloudy, murky, muddy, sandy, temp., odor
20	3:30 AM	18.75	1,305	19.0	381.0	101.0	7	12.92	
21	4:00 AM	18.75	1,305	19.0	381.0	101.0	7	12.92	12 to 4 .1 ml of sand
22	4:30 AM	18.75	1,305	20.0	380.0	100.0	7	13.05	Well #1 80 Ft running
23	5:00 AM	18.75	1,305	20.0	380.0	100.0	7	13.05	
24	5:30 AM	18.75	1,305	20.0	380.0	100.0	7	13.05	
25	6:00 AM	18.75	1,305	20.0	380.0	100.0	7	13.05	
26	6:30 AM	18.75	1,305	19.0	381.0	101.0	7	12.92	
27	7:00 AM	18.75	1,305	19.0	381.0	101.0	7	12.92	Well 1 79' pump running
28	7:30 AM	18.75	1,305	18.0	382.0	102.0	7	12.79	
29	8:00 AM	18.75	1,305	18.0	382.0	102.0	7	12.79	Well #1 74ft pump running 4 to 8 .1
30	9:00 AM	18.75	1,305	17.0	383.0	103.0	7	12.67	
31	9:01 AM			111.0	289.0	9.0		0.00	Well 1 68' motor sped up
32	9:02 AM			98.0	302.0	22.0		0.00	70'
33	9:03 AM			98.0	302.0	22.0		0.00	70'
34	9:04 AM			98.0	302.0	22.0		0.00	70'
35	9:05 AM			98.0	302.0	22.0		0.00	65' motor sped up
36	9:06 AM			98.0	302.0	22.0		0.00	70'
37	9:07 AM			99.0	301.0	21.0		0.00	70'
38	9:08 AM			99.0	301.0	21.0		0.00	70'
39	9:09 AM			99.0	301.0	21.0		0.00	70'
40	9:10 AM			100.0	300.0	20.0		0.00	70'
41	9:15 AM			100.0	300.0	20.0		0.00	
42	9:20 AM			101.0	299.0	19.0		0.00	
43	9:25 AM			101.0	299.0	19.0		0.00	
44	9:30 AM			102.0	298.0	18.0		0.00	
45	9:35 AM			102.0	298.0	18.0		0.00	
46	9:40 AM			103.0	297.0	17.0		0.00	
47	9:45 AM			103.0	297.0	17.0		0.00	
48	9:50 AM			103.0	297.0	17.0		0.00	
49	9:55 AM			103.0	297.0	17.0		0.00	
50	10:00 AM			104.0	296.0	16.0		12.92	Well 1 75' pump running

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Test of Well Report

Job #	LJ17-711

Customer Name	Iowa Premium

Date	12/21/2017

Test Information

Well No:	2	Well Location	3337 L Avenue					Tested By	Robert Tauke
Dia. Orifice	x	Static Level	280 ft	in		Well Depth		ft	
Drilled by		Length of Airline			400	Gauge to Ground Level:		ft	in
Pump Set to Disharge Nozzle		ft				To Tail Pipe		ft	

Reading No:	Time	Inches on orifice	GPM	Alt. Ga. in Feet	Pumping Level Ft.	Drawdown in Feet	Back Pressure	Specific Capacity	Water Appearance: clear, cloudy, murky muddy, sandy, temp., odor
	Start		0						Recovery test
1	10:15 AM			104.0	296.0	16.0		0.00	
2	10:25 AM			104.0	296.0	16.0		0.00	
3	10:35 AM			105.0	295.0	15.0		0.00	
4	10:45 AM			105.0	295.0	15.0		0.00	
5	10:55 AM			105.0	295.0	15.0		0.00	
6	11:05 AM			105.0	295.0	15.0		0.00	
7	11:25 AM			106.0	294.0	14.0		0.00	
8	11:45 AM			106.0	294.0	14.0		0.00	
9	12:00 PM			106.0	294.0	14.0		0.00	
10	12:30 PM			107.0	293.0	13.0		0.00	
11	1:00 PM			107.0	293.0	13.0		0.00	
12	1:10 PM			107.0	293.0	13.0		0.00	
13									
14									
15									
16									
17									
18									
19									

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