The Cahoy Group

CAHOY PUMP SERVICE

SUMNER, IA
Corporate Office
563-578-1130

Cahoy-West
712-781-2030
Marne, Iowa

CPS-Ill North
815-248-1049
Durand, Illinois

Cahoy Illinois South
217-732-9997
Lincoln, Illinois

WELL TEST DATA SHEET

CLIENT: Fort Dodge

WELL: 22

DATE: 05/15/2019

TESTED BY: Kenny & Jon

PUMP MODEL: Am Marsh 10ML , Grundfos 1100s1500-4aa

AIRLINE LENGTH: 220'

WELL DIAMETER: 24"

ORIFICE SIZE: 10x8 + 8x6

DEPTH OF WELL: 504

MOTOR: 100hp; 150hp

STATIC WATER LEVEL: 100'

GENERATOR USED: No Yes

BEGIN HOURS: END HOURS:

STEP-RATE TEST CONSTANT RATE TEST

PRE-TREATMENT POST –TREATMENT-ACIDIZE

MEASUREMENT TAKEN FROM THE TOP OF THE WELL CASING WHICH IS 22" FROM EXISTING GROUND/FLOOR LEVEL.

TIME	Piezometer READING (ft.)	GPM	Air Gauge	Pumping Level (ft.)	Draw Down (ft.)	Discharge PSI FEET	Spec Cap	TDH	Sand PPM
2:00		2513	120						
2:01		2513	108	112	12		209.41		1.0
2:02		2513	108	112	12		209.41		1.1
2:03		2513	108	112	12		209.41		1.1
2:04		2513	108	112	12		209.41		1.1
2:05		2513	108	112	12		209.41		1.2
2:06		2513	108	112	12		209.41		1.2
2:07		2513	108	112	12		209.41		1.2
2:08		2513	108	112	12		209.41		1.2
2:09		2513	108	112	12		209.41		1.2
2:10		2513	108	112	12		209.41		1.2
2:15		2584	108	112	12		215.33		1.2
2:10		2584	108	112	12		215.33		1.3
2:25		2474	108	112	12		206.16		1.3
2:30		2474	108	112	12		206.16		1.3
2:35		2474	108	112	12		206.16		1.3
2:40		1637	116	104	4	Gen 1 quit running	409.25		1.4
2:45		1637	116	104	4		409.25		1.4
3:00		2542	108	112	12		206.16		1.8
3:15		2542	108	112	12		206.16		1.8
3:45		2542	108	112	12		206.16		2.0
4:15		2542	108	112	12		206.16		2.2
4:45		2542	108	112	12		206.16		2.4
5:00		2542	107	113	13		195.54		2.6
6:00		2542	107	113	13	Turned 2 parallel wells on at 5:15	195.54		3.2
7:00		2542	107	113	13		195.54		3.5
8:00		2542	106	114	14		181.57		3.7
9:00		2542	105	115	15		169.47		3.9
10:00		2542	105	115	15		169.47		4.0
11:00		2542	105	115	15		169.47		4.1
Terminated test-recovery									
11:15				114					
11.16				116					
11:17				118					
11:18				118					
11:19				118					
11:20				118					
11:21				118					

TIME	Piezometer READING (ft.)	GPM	Air Gauge	Pumping Level (ft.)	Draw Down (ft.)	Discharge PSI FEET	Spec Cap	TDH	Sand PPM
11:22				118					
11:23				118					
11:24				118					
11:25				118					
11:30				118					
11:35				118					
11:40				118					
11:45				118					
11:50				118					
11:55pm				118					
12:00am				118					
	Jon checked at 7am – was 120								
7:00am				120					

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WELL TEST DATA SHEET

CLIENT: Fort Dodge

WELL: 22

DATE: 4/23/2019

TESTED BY: Lloyd & Antonio

PUMP MODEL: AM

AIRLINE LENGTH: 220'

WELL DIAMETER: 24"

ORIFICE SIZE: 6x8

DEPTH OF WELL: 519'

MOTOR: SME 100hp

STATIC WATER LEVEL: 103.7'

GENERATOR USED: No Yes-Gen II

BEGIN HOURS: 5273 END HOURS:

STEP-RATE TEST-Development CONSTANT RATE TEST

PRE-TREATMENT POST –TREATMENT

MEASUREMENT TAKEN FROM THE TOP OF THE WELL CASING WHICH IS 18"FROM EXISTING GROUND/FLOOR LEVEL.

TIME	Piezometer READING (ft.)	GPM	Air Gauge	Pumping Level (ft.)	Draw Down (ft.)	Discharge PSI FEET	TDH	Spec Cap	Sand PPM
4:15	10.0	500		150.0	46.3	92 212.52	362.52	10.79	21.13 5 min
4:25	10.0	500		155.5	51.8	92 212.52	368.02	9.65	21.13 5 min
4:35	10.0	500		156.2	52.5	92 212.52	368.72	9.52	13.20 10 min
4:45	10.0	500		156.2	51.5	92 212.52	368.72	9.52	
4:50	22.5	751		195.5	91.8	54 124.74	320.24	8.18	33.96 7 min
5:00	22.5	751		202.0	98.3	54 124.74	326.74	7.63	39.62 8 min
5:10	22.5	751		203.9	100.2	54 124.74	328.64	7.49	369.84 1 min
Stopped									
5:30	22.5	751		204	100.3	54 124.74	328.74	7.48	
5:40	22.5	751		204	100.3	54 124.74	328.74	7.48	
5:50	22.5	751		204	100.3	54 124.74	328.74	7.48	105.60 5 min
8:02	25.5	799		180	78.50	47			
8:05	23.0	759		220	Pump cavitated				
			Took well 5 min 90% recovery						

Form revised 12/13/2018