

Northway Well and Pump Co.

**4895 8th Avenue
Marion, Iowa 52302**

PUMP REPORT

CUSTOMER Water Works of Evansdale WELL NO. 3 DATE 3/7/2018
 WELL DEPTH ~~288~~ 295' WELL TOP SIZE 12" SIZE OF CASING 8"
 GPM 405 STATIC LEVEL 70' PUMPING LEVEL 131'

CONTROL

MAKE Square D SIZE 3 MODEL CC81
 CABLE SIZE #4/3 LENGTH 235 BREAKER SIZE 100 Amp

MOTOR

MAKE Hitachi H.P. 50 VOLT 460 RPM 3400
 TYPE VCTI PHASE 3 CODE J FRAME 6"
 RING BASE NA SERIAL G26582E

RESISTANCE:	WIRE TO WIRE	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>
	WIRE TO GROUND	<u>INF</u>	<u>INF</u>	<u>INF</u>
	RUNNING VOLTAGE	<u>490</u>	<u>485</u>	<u>485</u>
	RUNNING AMPS	<u>68</u>	<u>68</u>	<u>70</u>
	SPLICE	<u>H/S</u>	<u>H/S</u>	<u>H/S</u>

PUMP

TURBINE SUBMERSIBLE X
 DISCHARGE HEAD: MAKE Weld Elbow SIZE 4" X 6"
 TYPE Carbon Steel SERIAL NA
 HEADSHAFT: DIA. NA LENGTH NA
 LOWER SHAFT DRIVE NA
 COLUMN 4" SHAFT NA MATERIAL Galvanized
 BOWL: MAKE Grundfos MODEL 385S500 STAGE 7
 SIZE 8" IMP A MATERIAL Stainless Steel
 STEP COUPLING NA X NA STRAINER Yes SUCTION DIA. NA
 LENGTH 0 LONGEST LENGTH 21' TOTAL SETTING 233'
 GPM 405 TDH 330

REMARKS: Removed pumping equipment due to motor out to ground, developed the well with air shock and acid treatment. Installed new motor, new drop pipe, and check valve.
Airline Length is 233 feet.

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4895 8th Avenue
Marion, Iowa 52302
319-377-6339
1-800-747-6339

100 North 6th Street
Waukee, Iowa 50263
515-987-4575
1-800-747-4575

WELL TEST DATA REPORT

Customer City Water Works City Evansdale, Iowa
Location Collins Street Well No. 3
Size Casing 8" Total Depth 297 Construction Rock Drilled
Make Pump Grundfos Model No. _____ No. of Stages _____
Diameter _____ Total Setting 210 Air Line Length 210
Meter Used 6" Sparling Prop Static Level 80'
2nd time 105'

DATE	TIME	GPM	P.L.	D.D.	S.C.	P.S.I.	TEMP DISCHARGE DESCRIPTION	
9/18/12	8:40	400	150'	70'	5.7	65	Cloudy	
	8:45	370	140	60	6.0	63	Cloudy	
	8:50	430	153	73	5.8	50	Cloudy	
	8:55	430	155	75	5.7		Clear	
	9:00	430	164	84	5.1	43	Clear	
	9:05	430	165	85	5.0		Clear	
	9:15	430	175	95	4.5	40	Clear	
	9:20	400	170	90	4.4	50	Clear	
	9:30	400	175	95	4.2		Clear	
	9:40	380	175	95				
	Shut down due to water aeration							Lower Pump
	10:45	SWL	105				275' Pump Setting	
	10:50	400	155	50	8.0	55	Cloudy	
	10:55	390	160	55	7.0	55	Cloudy	
	11:00	390	165	60	6.5	50	Clearing	
	11:05	390	170	65	6.0	50	Clearing	
	11:10	390	175	70	5.5	50	Clear	
	11:15	380	175	70	5.5	50	Clear	
	11:20	370	176	71	5.2	50	Clear	
	11:25	370	177	72	5.1	50	Clear	
	11:30	370	177	72	5.1	50	Clear	
	11:45	360	185	80	4.5	48	Clear	
	12:00	360	187	82	4.3	48	Clear	
	12:30	340	195	80		48	Clear	
	1:00	340	193	78		48	Clear	
	1:30	340	200	75		48	Clear	
	2:00	320	205	71		48	Clear	
	2:30	320	210			48		
	3:00	290	215			35		

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CHEMICAL TREATMENT REPORT

Customer Water Works Dept City Evansdale

Date March 2018 Well Number 3 Location West of Water Plant

Well Depth 295' Well Top Size 14" Size of Casing 8"

	<u>Before Treatment</u>		<u>After Treatment</u>
S.W.L	<u>70'</u>	S.W.L	<u>70'</u>
G.P.M	<u>300</u>	G.P.M	<u>400</u>
Pumping Level	<u>218'</u>	Pumping Level	<u>136'</u>
Yield Per Ft. of D.D.	<u>2.02</u>	Yield Per Ft. of D.D.	<u>6.1</u>

Describe Treatment

Air shock development, pressure acidizing

Chemicals Used

2000 Gallons of Muriatic 20 degree inhibited acid

Condition of Pumping Equipment

Test Pump

Pump Information:

Pump Model Number	<u>300-300</u>
Stages	<u>8</u>
Air Line Length	<u>231'</u>
Pump Setting	<u>231'</u>
Size of Column	<u>4"</u>
Motor HP, Volt	<u>30 HP / 460 V</u>
Running Amperage	<u>61-60-62</u>

Phone 319-377-6339

1-800-747-6339

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WELL TEST DATA REPORT

Customer Water Department City Evansdale, Iowa
Location Dodge and Collins Street Well No. 3
Size Casing 8" Total Depth 295 Construction Steel
Make Pump Grundfos Model No. 3855500 50hp No. of Stages 6
Diameter 7 Total Setting 231 Air Line Length 231
Meter Used 6 Static Level 37

DATE	TIME	GPM	P.L.	D.D.	S.C.	P.S.I.	TEMP DISCHARGE DESCRIPTION
10-11-12	6:00	330	46	90	33.3	105	Dirty
	6:05	330	61	24	12.5		
	6:10	320	73	36	8.33		
	6:15	320	85	48	6.25		
	6:30	320	90	53	5.96		
	6:45	310	101	64	4.69		Clean
	7:00	310	104	67	4.47	100	
	7:15	310	115	78	3.84		
	7:30	300	120	83	3.75		
	8:00	300	121	84	3.57		
	8:30	300	123	86	3.48		
	9:00	300	126	89	3.37		
	9:30	300	128	91	3.29		
	10:00	300	130	93	3.22	90	
	10:30	300	131	94	3.19		
	11:00	300	135	98	3.06	80	
	11:30	300	142	105	2.85	75	Small Air Bubbles
	12:00	300	149	112	2.68	70	
	12:30	300	153	116	2.58	75	Some Air Bubbles
	1:00	300	153	116	2.58	75	
	1:30	300	153	116	2.58	72	
	2:00	300	153	116	2.58	72	
	2:30	300	156	119	2.52	75	
	3:00	300	156	119	2.52	75	
	3:30	300	156	119	2.52	75	
	4:00	300	156	119	2.52	80	
	5:00	300	166	129	2.32	80	More Air
	6:00	300	171	134	2.23	75	

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PUMP REPORT

CUSTOMER Evansdale, IA Water Works WELL NO. 3 DATE 7/23/2009
WELL DEPTH 129' 6" WELL TOP SIZE 15" SIZE OF CASING 12"
GPM 450 STATIC LEVEL 15' PUMPING LEVEL 21'

CONTROL

MAKE Furnas SIZE 3 MODEL 151F32A
CABLE SIZE 1/0 LENGTH 75' BREAKER SIZE E77

MOTOR

MAKE Plueger H.P. 40 VOLT 230 RPM 3450
TYPE Std PHASE 3 CODE 11-2008 FRAME 6"
RING BASE _____ SERIAL M6-6002

RESISTANCE:	WIRE TO WIRE	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>
	WIRE TO GROUND	<u>INF</u>	<u>INF</u>	<u>INF</u>
	RUNNING VOLTAGE	<u>237</u>	<u>239</u>	<u>238</u>
	RUNNING AMPS	<u>99</u>	<u>99</u>	<u>101</u>
	SPLICE	<u>Tape</u>		

PUMP

TURBINE _____ SUBMERSIBLE X
DISCHARGE HEAD: MAKE Tee SIZE 6 x 6 x 6
TYPE Steel SERIAL _____
HEADSHAFT: DIA. _____ LENGTH _____
LOWER SHAFT DRIVE _____
COLUMN 6" SHAFT N/A MATERIAL Steel
BOWL: MAKE Goulds MODEL 7CLC STAGE 3
SIZE 7" IMP 5.125 MATERIAL Standard
STEP COUPLING X STRAINER Yes SUCTION DIA. _____
LENGTH _____ LONGEST LENGTH 21 TOTAL SETTING 65
GPM 450 TDH 220

REMARKS: Submersible motor was struck by lightning. Removed pumping equipment, reinstalled new pump 63 feet of 6" T & C, new 40hp. motor, new check valve and altitude tubing.
Airline length is 65 feet.