# Northway Well and Pump Co. 4895 8th Avenue Marion, Iowa 52302

Drilled for	City	Water Works	······-	of	Greene	, Iowa		
Well is loc	atcd	N-E-S-W	and	_miles N-E-	S-W from			
in the <u>N</u>	11/4	_SE_1/4 Section	2	_Township_	Cold Wate	<u>r                                    </u>	W	
Drilling st	arted	March 11		19 <u>_99</u>	Completed_	April 22	19_99	
Wcll No	2	Kind of Well	rilled	Depth	211'	_Size hole started_	12"	in
Finish	8"	G.P.M350	Static He	ad <u>36'</u>	Pumping lo	evel from surface	42'	
Waler was	i first en	countered at	_in	Арргох. /	Amt	Temp	50 Degrees	
		s well was recor						

### (GIVE DETAILS OF PERFORATED PIPE AND SEALS)

	RECORD OF PERMANENT PIPE TEMPORARY PIPE								
SIZE PIPE	AMOUNT OF PIPE	DEPTH TO BOTTOM OF PIPE	DEPTH TO	MAKE OF PIPE	SIZE PIPE	AMOUNT			
8"	158'	158'	+18"	Steel					
		158' With ce	nent shoe						

Driller	Tom Engelken	147' From \$\$\$\$\$\$\$\$\$(to	211'	feet
Driller	Andrew Cira	From Stutionx to	211'	feet
Driller		From Surfact to		feet

AMOUNT IN FEET	KIND OF SOIL OR FORMATION (BE SPECIFIC)	TOTAL DEPULFEET.
Start at 147'	Shale and drill cuttings	148'
13'	Brown limestone, very hard	161 '
11'	Gray and brown limestone	172'
5'	Gray limestone	177'
6'	Soft gray limestone	183'

1-800-747-6339

AMOUNT FEET

#### KINDS OF SOIL OR FORMATION (BE SPECIFIC)

TOTAL DEPTH FEET

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		<u></u>
1'	Gray shale	184'
3'	Soft gray limestone	187'
12'	Gray and light brown limestone	199'
41	Brown limestone hard	203'
4'	Gray limestone	207'
<u> </u>	Brown limestone	211'
	The well casing was grouted with grout	
	shoe from 158' to 141', with 75 bags of	,,, _,
	cement grout filled from 141' to 80' with	
	4.2 ton of lime rock and 50 bags of 3/8"	
	bentonite ships. Tremied 35 bags of	
	cement grout from 80' to surface.	
<b>.</b>		

## NORTHWAY WELL AND PUMP COMPANY

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

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

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#### WELL TEST DATA REPORT

Customer	City Water	Works	_City	Greene, Iowa
Location	NW part of	city	_Well No.	2
Size Casing	8"	Total Depth	211'	Construction Steel
Pump Make	Simmons	Model No	556HB	No.of Stages 4
Diameter	6"	Total Setting	841	Air Line Length 84'
Meter Used	4" Prop	Static Level	36'	

#### TEMP. DISCHARGE

		P.L	D.D.	<u>S.C.</u>	<u>P.S.I.</u>	DESCRIPTION
8:15	300	44	8'	37.5	15	Very dirty
	300	44	8'	37.5	15	Dirty
8:25	300	44	8'	37.5	15	Dirty
8:30	300	44	81	37.5	15	Dirty
8:40	300	44	81	37.5	15	Dirty
8:50	300	44	81	37.5	15	Dirty/Clearing
9:00	300	42	6'	50	15	Cloudy
9:15	300	42	6'	50	15	Cloudy
9:30	300	42	6'	50	15	Cloudy
9:45	300	42	6'	50	15	Cloudy
10:00	300	42	6'	50	15	Cloudy
10:30	300	42	6'	50	15	Cloudy
11:00	300	42	6'	50	15	Partial Clearing
11:30	300	42	6'	50	15	Clearing
12:00	300	42	6'		15	Clear
12:30	300	42	6'	50	15	Clear
	300	42	6'	50	15	Clear
2:00	300	42	6'	50	15	Clear
3:00	350	42	6'	58.3	5	Clear
3:15	350	42	6'	58.3	5	Clear
3:30	350	42	6'	58.3	5	Clear
3:45	350	42	6'	58.3	5	Clear
4:00	350	42	6'	58.3	5	Clear
4:15	350	42	6'	58.3	5	Clear
4:30	350	42	6'	58.3	5	Clear
4:45	350	42	6'	58.3	5	Clear
	8:20 8:25 8:30 8:40 8:50 9:00 9:15 9:30 9:45 10:00 10:30 11:00 11:30 12:00 12:30 12:30 12:00 3:00 3:15 3:30 3:45 4:00 4:15 4:30	8:20 300   8:25 300   8:30 300   8:40 300   8:50 300   9:00 300   9:15 300   9:30 300   9:45 300   10:00 300   11:30 300   12:00 300   12:00 300   12:00 300   1:00 300   1:00 300   1:00 300   1:00 300   1:00 300   1:00 300   1:00 300   1:00 300   1:00 300   1:00 300   1:00 300   3:00 350   3:15 350   3:30 350   3:45 350   4:15 350   4:30 350	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	8:20 $300$ $44$ $8'$ $8:25$ $300$ $44$ $8'$ $8:30$ $300$ $44$ $8'$ $8:40$ $300$ $44$ $8'$ $8:40$ $300$ $44$ $8'$ $8:50$ $300$ $44$ $8'$ $9:00$ $300$ $42$ $6'$ $9:15$ $300$ $42$ $6'$ $9:30$ $300$ $42$ $6'$ $9:45$ $300$ $42$ $6'$ $10:00$ $300$ $42$ $6'$ $11:00$ $300$ $42$ $6'$ $11:00$ $300$ $42$ $6'$ $11:00$ $300$ $42$ $6'$ $12:30$ $300$ $42$ $6'$ $12:30$ $300$ $42$ $6'$ $3:00$ $350$ $42$ $6'$ $3:15$ $350$ $42$ $6'$ $3:30$ $350$ $42$ $6'$ $3:45$ $350$ $42$ $6'$ $4:00$ $350$ $42$ $6'$ $4:30$ $350$ $42$ $6'$	8:20 $300$ $44$ $8'$ $37.5$ $8:25$ $300$ $44$ $8'$ $37.5$ $8:30$ $300$ $44$ $8'$ $37.5$ $8:30$ $300$ $44$ $8'$ $37.5$ $8:40$ $300$ $44$ $8'$ $37.5$ $8:50$ $300$ $44$ $8'$ $37.5$ $9:00$ $300$ $42$ $6'$ $50$ $9:15$ $300$ $42$ $6'$ $50$ $9:30$ $300$ $42$ $6'$ $50$ $9:30$ $300$ $42$ $6'$ $50$ $9:45$ $300$ $42$ $6'$ $50$ $10:00$ $300$ $42$ $6'$ $50$ $10:00$ $300$ $42$ $6'$ $50$ $11:00$ $300$ $42$ $6'$ $50$ $12:00$ $300$ $42$ $6'$ $50$ $12:30$ $300$ $42$ $6'$ $50$ $1:00$ $300$ $42$ $6'$ $50$ $2:00$ $300$ $42$ $6'$ $50$ $3:00$ $350$ $42$ $6'$ $58.3$ $3:15$ $350$ $42$ $6'$ $58.3$ $3:45$ $350$ $42$ $6'$ $58.3$ $4:15$ $350$ $42$ $6'$ $58.3$ $4:30$ $350$ $42$ $6'$ $58.3$	8:20 $300$ $44$ $8'$ $37.5$ $15$ $8:25$ $300$ $44$ $8'$ $37.5$ $15$ $8:30$ $300$ $44$ $8'$ $37.5$ $15$ $8:40$ $300$ $44$ $8'$ $37.5$ $15$ $8:50$ $300$ $44$ $8'$ $37.5$ $15$ $8:50$ $300$ $44$ $8'$ $37.5$ $15$ $9:00$ $300$ $42$ $6'$ $50$ $15$ $9:00$ $300$ $42$ $6'$ $50$ $15$ $9:30$ $300$ $42$ $6'$ $50$ $15$ $9:30$ $300$ $42$ $6'$ $50$ $15$ $9:45$ $300$ $42$ $6'$ $50$ $15$ $10:00$ $300$ $42$ $6'$ $50$ $15$ $11:00$ $300$ $42$ $6'$ $50$ $15$ $11:30$ $300$ $42$ $6'$ $50$ $15$ $12:00$ $300$ $42$ $6'$ $50$ $15$ $12:00$ $300$ $42$ $6'$ $50$ $15$ $1:00$ $300$ $42$ $6'$ $50$ $15$ $3:00$ $350$ $42$ $6'$ $58.3$ $5$ $3:15$ $350$ $42$ $6'$ $58.3$ $5$ $3:30$ $350$ $42$ $6'$ $58.3$ $5$ $4:00$ $350$ $42$ $6'$ $58.3$ $5$ $4:30$ $350$ $42$ $6'$ $58.3$ $5$

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#### WELL TEST DATA REPORT

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Customer	City Wa	ter Work	S	City	Green	e, Iowa	
Location_		Well	No. 2	<u>.</u>			
							TEMP. DISCHARGE
DATE_		GPM	P.L	D.D	<u>S.C.</u>	P.S.I	DESCRIPTION
4-20-99							
GATED	5:00	180	38	2'	_90.0_	60	<u>Clear</u>
	5:30	180	_38	2'	90.0	60	<u>Clear</u>
	6:00	180	38		90.0	60	Clear
	6:05	350	42	6'	_58.3	5	Clear
	RECOVERY	SWL					
	6:10	40					
	6:11	37					
RECOVERED	6:12	36					
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							······································
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	ion with U. S. Geo RECORD OF WEI	logical Survey	<b>W1</b> 1918
Location: Town: <u>GREENE</u> sec. <u>1</u> ? T. <u>93</u> N	(NE) (SW) County	BUTLER Twp.	
Well name and number			1000
Owner GREENE TOWN TEST	(1960) Address	GREENE, JOWA	National States
Tenant	Address	level	Teles water
Contractor LAYNE - WESTERN		AMES, 10WA	(.m.o.s) hisiy
			Mereneling of a
Drilling dates Win	17En 1960	ania	Densitien of thus
Well data: Altitudes: Drilling curb Determined by		n elduneg	Wall No
Topographic position		and has	Lamont a slowed
Total depth: Reported 15	0_feet; Measu	redfeet	Logged by
Drilling method			Correlations by
Hole and casing data	523	abi tabibili a	
Original depth to water	above ft.below	Date	
Source of data			

VAVAUE LADIDOLIOLO ... VAL In Conservation with U. S. Geological survey W11918 Sources of water: Principal Lacellon I Others PRODUCTION DATA .798 Date and the state of the Static water level Pumping water level Yield (g.p.m.) Measuring point Duration of pumping Specific capacity LABORATORY DATA TLI-35 Well No.\_\_\_\_\_ Sample range 0-150 No. of samples 30 No. of dupls. and cond. 28 good Washed range 15-150 Loch Date 3/16/60 Samples prepared by Logged by fred A Docheim Date 2-20-61 Date // // Correlations by / // // 11