61580 p.1

Freese Well Drilling, Inc.
420 East Post Rd. SE
Cedar Rapids, IA 52403



Date: August 28, 2008

Phone:

Palo Fire Station 8" Well

7/07/08	Moved equipment to site
7/08/08	Unlocked 8" & 14" well casing
7/09/08	8:00- Set up & started drilling 17 ½" bit. 0-4 top soil, sand & gravel down to 84' limestone. Drilled to 87', rock hard, mudded up hole with Quick Gel
7/10	Man sick
7/11-7/12	rained out
7/13	8:00-5:00 Drilled to 89'
7/14	8:30-3:00 set 89 14" surface pipe
7/16	Had problem with air compressor, needed to have machine shop make shafts.
7/18	Picked up shaft at machine shop at 11:00 put shaft back in air compressor 6:30pm
7/19	8:00-1:00 down hole Hammer plugged took back to shop to clean out.
7/21	8:00 am – 7:00 pm drilled to 280' using 13" bit.
7/22	7:30-6:00 set 280' of .322 wall 8" casing
7/23	7:00-1:30 Pumped down 20 bags of quick Gel & placed in 8 yds of cement grout (22 bags per yd plus 6 gal of water per sack)
7/24	8:00-5:00 Measured down with 200' tape cement came to 186' placed in 180' of 1 ¼" down outside of 8" well casing.
7/28	7:30-7:00 Drilled 8" open hole from 280' to 400 & pulled equipment off sit

All accounts over 30 days 1.5% interest/estimate good for 30 days

Freese Well Drilling, Inc.
420 East Post Rd. SE
Cedar Rapids, IA 52403



Date:

Phone:

0-4'	Topsoil
4-84 ±	Sand & gravel
84-128'	Chert
128-132	Tan
132-135	Light Gray
135-136	Trace of shale
136-165	Light gray
170-215	Making water 45 gpm dark gray
215-240	Light gray
240-275	Light gray
275-380	Dark gray 300 gpm +
380-400	Cutting flat & thick tan color

Thank you we appreciate your business

Rick Freese

All accounts over 30 days 1.5% interest/estimate good for 30 days

61580

Northway Well and Pump Co.

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

PAGE -2-

Customer City of Palo City Palo, Iowa
Location West of Fire Station Well No. WI-01

DATE	TIME	GPM	P.L.	D.D.	S.C.	P.S.I.	TEMP DISCHARGE DESCRIPTION
	2:22	100	44	29	3.45	120	Clear
	2:24	100	43	28	3.57	120	Clear
	2:26	100	41	26	3.84	120	Clear
	2:28	100	41	26	3.84	120	Clear
	2:30	100	39	24	4.12	120	Clear
	2:45	100	37	21	4.76	120	Clear
	3:00	100	35	20	5.00	120	Clear
	3:15	100	34	19	5.26	120	Clear
	3:30	100	34	19	5.26	120	Clear
	3:45	100	34	19	5.26	120	Clear
		Recovery					
	3:48		28				
	3:50		25				
	3:52		24				
	3:54		23				
	3:56		21				
	3:58		20				
	4:00		20				
	4:15		19				
	4:30		19				

08/22/2008 18:18 FAX 3183378148 Northway Well and Pump 003

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WELL TEST DATA REPORT

Customer City of Palo — City Palo, Iowa
Location West of Fire Station — Well No. WL-01
Size Casing 8" — Total Depth 400 — Construction Steel 281'
Make Pump Goulds — Model No. CLC / 25hp. — No. of Stages 8
Diameter 6" — Total Setting 210 — Air Line Length 210
Meter Used Propeller — Static Level 15'

DATE	TIME	GPM	P.L.	D.D.	S.C.	P.S.I.	TEMP DISCHARGE DESCRIPTION
8-4-08	10:36	190	37	22	8.63	95	Dirty
	10:38	190	37	22	8.63	95	Clearing
	10:40	190	38	23	8.26	95	Clearing
	10:42	190	39	24	7.91	95	Clearing
	10:44	190	41	26	7.30	95	Clean
	10:46	190	41	26	7.30	95	Clean
	11:02	260	52	37	7.02	42	Clean
	11:04	260	54	39	6.66	42	Clear
	11:06	260	54	39	6.66	42	Clear
	11:08	260	54	39	6.66	42	Clear
	11:10	260	54	39	6.66	42	Clear
	11:16	260	54	39	6.66	42	Clear
	11:23	260	55	40	6.50	42	Clear
	11:30	260	57	42	6.19	42	Clear
	11:45	260	57	42	6.19	42	Clear
	12:00	260	57	42	6.19	42	Clear
	12:15	260	58	43	6.04	42	Clear
	12:30	260	59	44	5.90	42	Clear
	12:45	260	60	45	5.77	42	Clear
	1:00	260	60	45	5.77	42	Clear
	1:15	260	60	45	5.77	42	Clear
	1:30	260	60	45	5.77	42	Clear
	1:45	260	60	45	5.77	42	Clear
	2:00	260	60	45	5.77	42	Clear
	2:15	260	60	45	5.77	42	Clear
	2:16	100	53	38	2.63	120	Clear
	2:18	100	49	34	2.94	120	Clear
	2:20	100	46	31	3.22	120	Clear

08/22/2008 18:18 FAX 3103378148 Northway Well and Pump 002

08613 61580

Hygienic Laboratory

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The University of Iowa

NORTHWAY WELL & PUMP

Date of report: 09-04-2008

NORTHWAY WELL & PUMP CO
4895 8TH AVENUE

MARION IA 52302

Sample Number	2008028799
Date Received	08-05-2008
Project	SDWA
Date Collected	08-04-2008 14:54
Collection Site	well head sample tap
Collection Town	Palo
Description	water
Reference	WL-01
Collector	ENGELKEN TOM
Phone	(319) 377-6339
Purchase Order	250

Comments: *PWSID 5765101*
Paperwork lists collection time as 15:00; per label 14:54.
Upon arrival, sample met container and preservation requirements for the analysis requested;
EXCEPT: sample temperature exceeds 6 degrees celsius.
Please review carefully your sample results for additional analyte comments or method exceptions.

Results of Analyses

Silica as SiO2

Analyte	Concentration mg/L	Quantitation Limit mg/L
Silica as SiO2	8.0	1.0

Date Analyzed: 08-15-2008
Method: SM 4500-Si D
Analyst: DH
Verified: LF

Laboratory pH

Analyte	Concentration pH Units	Quantitation Limit pH Units
Laboratory pH	7.7	

Date Analyzed: 08-20-2008
Method: SM 4500-H+ B
Analyst: AB
Verified: TAB

Specific Conductance

Analyte	Concentration umho/cm	Quantitation Limit umho/cm
Specific Conductance	800	1.0

Date Analyzed: 08-25-2008
Method: SM 2510B
Analyst: AB
Verified: SB

Total Alkalinity

Analyte	Concentration mg/L as CaCO3	Quantitation Limit mg/L as CaCO3
Total Alkalinity	360	1.0

Date Analyzed: 08-20-2008
Method: SM 2320B
Analyst: AB
Verified: TAB

Page 1 - Continued on next page

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09/08/2008 10:38 FAX 3193378148 Northway Well and Pump 002

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Total Hardness

Analyte	Concentration mg/L as $CaCO_3$	Quantitation Limit mg/L as $CaCO_3$
Total Hardness	370	5.0

Date Analyzed: 08-13-2008
Method: SM18 2340 B
Analyst: DC
Verified: DS

Total Dissolved Solids

Analyte	Concentration mg/L	Quantitation Limit mg/L
Total Dissolved Solids	460	1
Comments	*Dried at 180 degrees C.*	

Date Analyzed: 08-06-2008
Method: SM 2540 C
Analyst: LD
Verified: DS

Total Suspended Solids

Analyte	Concentration mg/L	Quantitation Limit mg/L
Total Suspended Solids	<1	1
Comments	*Dried at 103 degrees C*	

Date Analyzed: 08-06-2008
Method: USGS I-3765-85
Analyst: LD
Verified: DS

Total Calcium

Analyte	Concentration mg/L	Quantitation Limit mg/L
Total Calcium	87	1.0

Date Analyzed: 08-13-2008
Method: EPA 200.7
Analyst: DC
Verified: DS

Total Magnesium

Analyte	Concentration mg/L	Quantitation Limit mg/L
Total Magnesium	37	0.50

Date Analyzed: 08-13-2008
Method: EPA 200.7
Analyst: DC
Verified: DS

Total Potassium

Analyte	Concentration mg/L	Quantitation Limit mg/L
Total Potassium	5.4	1.0

Date Analyzed: 08-13-2008
Method: EPA 200.7
Analyst: DC
Verified: DS

Page 2 - Continued on next page

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Total Sodium

Analyte	Concentration mg/L	Quantitation Limit mg/L
Total Sodium	35	0.50

Date Analyzed: 08-13-2008
Method: EPA 200.7

Analyst: DC
Verified: DS

Chloride

Analyte	Concentration mg/L	Quantitation Limit mg/L
Chloride	1.6	1.0

Date Analyzed: 08-28-2008
Method: EPA 300.0

Analyst: LDA
Verified: LF

Manual Fluoride by ISE (SDWA)

Analyte	Concentration mg/L	Quantitation Limit mg/L
Fluoride	0.55	0.10

Date Analyzed: 08-06-2008
Method: SM 4500-F C

Analyst: JF
Verified: TAB

Sulfate

Analyte	Concentration mg/L	Quantitation Limit mg/L
Sulfate	97	1.0

Date Analyzed: 08-28-2008
Method: EPA 300.0

Analyst: LDA
Verified: DS

Nitrite as N (SDWA)

Analyte	Concentration mg/L	Quantitation Limit mg/L
Nitrite Nitrogen as N	<0.02	0.02

Date Analyzed: 08-06-2008
Method: EPA 353.2

Analyst: BR
Verified: TAB

Nitrate as N (Water)

Analyte	Concentration mg/L	Quantitation Limit mg/L
Nitrate Nitrogen as N	<0.1	0.1

Date Analyzed: 08-06-2008
Method: EPA 353.2

Analyst: BR
Verified: TAB

Page 3 - Continued on next page

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Ammonia as N

Analyte	Concentration mg/L	Quantitation Limit mg/L
Ammonia Nitrogen as N	3.2	0.05

Date Analyzed: 08-11-2008
Method: LAC10-107-06-1J
Analyst: MP
Verified: DS

Total Barium

Analyte	Concentration mg/L	Quantitation Limit mg/L
Total Barium	<0.05	0.05

Date Analyzed: 08-13-2008
Method: EPA 200.7
Analyst: DC
Verified: DS

Total Chromium

Analyte	Concentration mg/L	Quantitation Limit mg/L
Total Chromium	<0.01	0.01

Date Analyzed: 08-13-2008
Method: EPA 200.7
Analyst: DC
Verified: DS

Total Silver

Analyte	Concentration mg/L	Quantitation Limit mg/L
Total Silver	<0.01	0.01

Date Analyzed: 08-25-2008
Method: EPA 200.8
Analyst: SB
Verified: TAB

Total Arsenic

Analyte	Concentration mg/L	Quantitation Limit mg/L
Total Arsenic	<0.001	0.001

Date Analyzed: 08-21-2008
Method: EPA 200.8
Analyst: SB
Verified: DC

Total Cadmium

Analyte	Concentration mg/L	Quantitation Limit mg/L
Total Cadmium	<0.001	0.001

Date Analyzed: 08-21-2008
Method: EPA 200.8
Analyst: SB
Verified: DC

Page 4 - Continued on next page

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Total Antimony

Analyte	Concentration mg/L	Quantitation Limit mg/L
Total Antimony	<0.005	0.005

Date Analyzed: 08-21-2008
Method: EPA 200.8
Analyst: SB
Verified: DC

Total Selenium

Analyte	Concentration mg/L	Quantitation Limit mg/L
Total Selenium	<0.01	0.01

Date Analyzed: 08-21-2008
Method: EPA 200.8
Analyst: SB
Verified: DC

Total Thallium

Analyte	Concentration mg/L	Quantitation Limit mg/L
Total Thallium	<0.001	0.001

Date Analyzed: 08-21-2008
Method: EPA 200.8
Analyst: SB
Verified: DC

Total Lead

Analyte	Concentration mg/L	Quantitation Limit mg/L
Total Lead	<0.001	0.001

Date Analyzed: 08-21-2008
Method: EPA 200.8
Analyst: SB
Verified: DC

Total Copper

Analyte	Concentration mg/L	Quantitation Limit mg/L
Total Copper	<0.01	0.01

Date Analyzed: 08-13-2008
Method: EPA 200.7
Analyst: DC
Verified: DS

Total Iron

Analyte	Concentration mg/L	Quantitation Limit mg/L
Total Iron	0.42	0.02

Date Analyzed: 08-13-2008
Method: EPA 200.7
Analyst: DC
Verified: DS

Page 5 - Continued on next page

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Total Manganese

Analyte	Concentration mg/L	Quantitation Limit mg/L
Total Manganese	<0.02	0.02

Date Analyzed: 08-13-2008
Method: EPA 200.7
Analyst: DC
Verified: DS

Total Mercury

Analyte	Concentration mg/L	Quantitation Limit mg/L
Total Mercury	<0.0002	0.0002

Date Analyzed: 08-14-2008
Method: EPA 245.2
Analyst: SB
Verified: DS

Total Zinc

Analyte	Concentration mg/L	Quantitation Limit mg/L
Total Zinc	<0.02	0.02

Date Analyzed: 08-13-2008
Method: EPA 200.7
Analyst: DC
Verified: DS

Description of units used within this report

mg/L - Milligrams per Liter
umho/cm - Micrombo per Centimeter
Quant Limit - Lowest concentration reliably measured
pH Units - pH Units
mg/L as CaCO3 - Milligrams per Liter as Calcium Carbonate

The results of this report relate only to the items analyzed. This report shall not be reproduced except in full without the written approval of the laboratory.

Iowa Environmental Laboratory ID #027.

If you have any questions please call Client Services at 800/421-IOWA (4692) or 319/335-4500. Thank you.

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09/08/2009 10:42 FAX 3193378148 Northway Well and Pump 007

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The University of Iowa

NORTHWAY WELL & PUMP

Date of report: 09-05-2008

NORTHWAY WELL & PUMP CO
4895 8TH AVENUE

MARION IA 52302

Sample Number	2008028798
Date Received	08-05-2008
Project	SDWA
Date Collected	08-04-2008 14:52
Collection Site	sample tap well head
Collection Town	Palo
Description	water
Reference	WL-01
Collector	ENGELKEN TOM
Phone	(319) 377-6339
Purchase Order	250

Comments: *Upon arrival, sample met container and preservation requirements for the analysis requested. Please review carefully your sample results for additional analyte comments or method exceptions. Paperwork lists collection time as 15:45; per label 14:52.*

SDWIS Information

PWS Id: IA5765101 Facility Id: WL-01 Sample Point Id: WL-01
Sample Category: Radio Chemistry Sample Type: Routine (RT)

Results of Analyses

Gross Alpha including Uranium

Analyte	Concentration pCi/L	Uncertainty +/-	Quantitation Limit pCi/L
Gross Alpha	4.0	1.4	1.7

Comments: *The United States Environmental Protection Agency has designated a maximum contaminant level of 15 pCi/L for Gross Alpha excluding Uranium (compliance gross alpha) for public drinking water supplies.*

Date Analyzed: 08-11-2008
Method: EPA 900.0

Analyst: JV
Verified: MM

Sequential Radium 226 and 228

Analyte	Concentration pCi/L	Uncertainty +/-	Quantitation Limit pCi/L
Radium-226	1.9	0.4	0.9
Radium-228	1.3	0.6	0.5
Combined Radiums	3.2		1.0

Comments: *The United States Environmental Protection Agency has designated a maximum contaminant level of 5 pCi/L for combined Radium 226 and Radium 228 in public drinking water supplies. Effective since July 9, 1976. For any Radium 226 and or 228 result less than our detection limit a value of zero is to be assumed for the purposes of combining the results.*

Date Analyzed: 08-29-2008
Method: EPA 904.0,903.0

Analyst: SMC
Verified: MM

Page 1 - Continued on next page

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