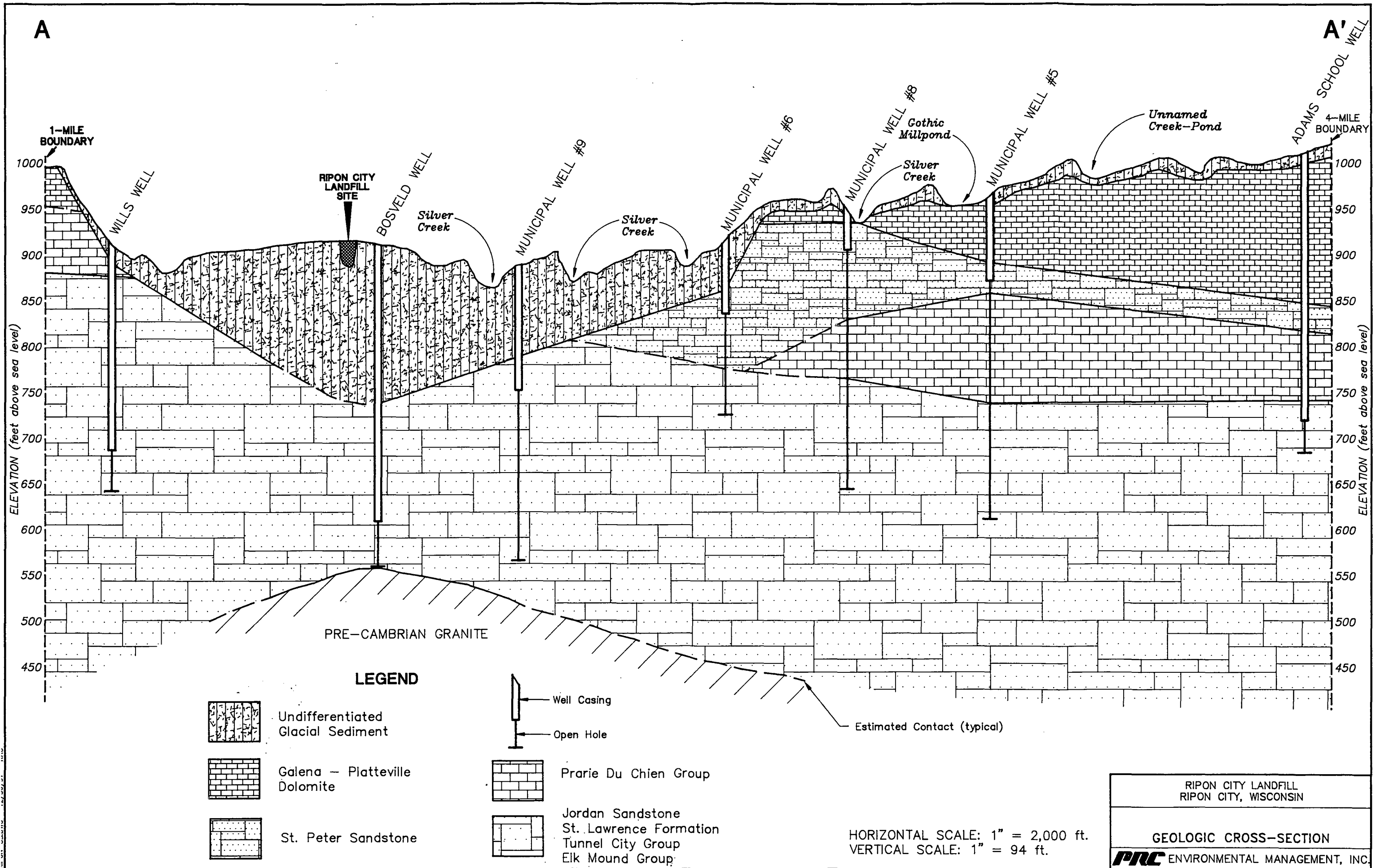


# APPENDIX A



GILES ENGINEERING ASSOCIATES, INC.

Boring No. SA 102

FOUNDATION ENGINEERS

Project: Donohue and Associates, Inc. Date: May 20, 1982

Ripon Land Fill, Ripon, Wis. GEA Project No.: 820328

DESCRIPTION Ground Surface Elevation	Depth Below Surface	Sample No. & Type	N	q <sub>u</sub>	q <sub>p</sub>	q <sub>s</sub>	w	REMARKS
Silty Sand and Gravel with Cobbles		1-AU						
Silty Clay with fine to coarse Sand and Cobbles to Boulders - Moist	5'	2-SS	7					
	10'	3-SS	15					
	15'	4-SS	56					
	20'	5-SS	22					
Brown Silt, fine to coarse Sand, and Gravel with Cobbles and Boulders Damp	25'	6-SS	50					
	30'	7-SS	37					
	35'	8-SS	104					
Drove Boulder - No Sample	40'	9-SS 50/1"						
Drove Boulder - No Sample	45'	10-SS 50/10"						

REFERENCE: 12  
 SITE NAME: Ripon Landfill  
 SITE ID: WFD 980616120

Changes of strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between boring locations.

RECORD OF SUBSURFACE EXPLORATION

102

SA

CONSULTING SOIL AND

FOUNDATION ENGINEERS

GILES ENGINEERING ASSOCIATES, INC.

Boring No. SA - Page Two

Project: Donohue and Associates, Inc.

Date: May 20, 1982

Ripon Land Fill, Ripon, Wis.

GEA Project No.: 820323

DESCRIPTION	Depth Below Surface	Sample No. & Type	N	q <sub>u</sub>	q <sub>p</sub>	q <sub>t</sub>	w	REMARKS
		10-SS	50/0"					
Drove Limestone Boulders	50'	11-SS	50/0"					
Continuous Limestone Boulders No Sample	55'	12-SS	50/0"					
Gray Silt, fine to coarse Sand, and Gravel - Wet	60'	13-SS	60					
Brown fine to coarse Sand with some coarse to medium Gravel and Clay Wet	65'	14-SS	34					
	70'	15-SS	58					
Boring terminated at 71'								
Well Installed to 69'	75'							
	80'							
	85'							
	90'							
	95'							
	100'							

97-1783

LOG OF TEST BORING

VERTICAL SCALE 1" = 4'

#5 101

BORING NO

1-B (5)

MONITORING WELLS, RIPON LANDFILL

SOUTHWEST CORNER

SURFACE ELEVATION	DESCRIPTION OF MATERIAL	GEOLOGIC ORIGIN	N	WL	SAMPLE		LABORATORY TESTS						
					NO	TYPE	W	D	LI	PT	OU		
	FILL, a mixture of tin cans, cardboard fiber, silty sand, gravel, cobbles	FILL				1	HSA						
	SAND, fine-grained, some gravel, a little silt, reddish brown, damp, very dense, with cobbles, a few boulders (SP-SM)		20			2	SB						
	Damaged Well		59			3	SB						
		TILL	39			4	SB						
		SILTY SAND, fine-grained, some gravel, light red, damp, dense (SM)		24			5	SB					
	SAND, fine-grained, some gravel, a little silt, reddish brown, damp, medium dense (SP-SM)		17			6	SB						
			14			7	SB						
	(CONTINUED ON NEXT PAGE)												
	A 2" monitoring wells was installed at this boring - see installation diagram.												

LOG OF TEST BORING

97-1783

VERTICAL SCALE 1" = 4'

#5 101 2 of 2  
BORING NO 1-8 (5)

MONITORING WELLS, RIPON LANDFILL

DESCRIPTION OF MATERIAL	SURFACE ELEVATION _____	GEOLOGIC ORIGIN	N	WL	SAMPLE		LABORATORY TESTS			
					NO	TYPE	W	D	LL PL	Qu
Continued From First Page										
SAND, fine to coarse-grained, with gravel, brown, damp, a few boulders and cobbles, very dense (SW)			100	5'	8	SB				
A hard limestone slab at 35' and again at 38'										
No Recovery from 39½ to 41'		OUTWASH	34		9	NSR				
SAND, fine-grained, a trace of gravel, yellowish brown, moist to wet, very dense (SP)			-30		10	SB				
					11	SB				
SAND, fine to coarse-grained, with gravel, a little silt, a few ½" seams clayey silt, gray brown, water bearing, dense (SW-SM)			37		12	SB				
		TILL	56		13	SB				
END OF BORING										
(This boring was 21' north and 9' west of staked location)										

WATER LEVEL MEASUREMENTS						START	COMPLETE
TIME	SAMPLED DEPTH	CASING DEPTH	CAVE-IN DEPTH	BAILED DEPTHS	WATER LEVEL	METHOD	@
10 1035	46.5'	44.5'	46.2'	10	45.5'	HSA 0-46'	1220
10 1140	46.5'	44.5'	45.9'	10	45.5'	DM 46-55.5'	
				10	45.5'		

MONITORING WELLS, RIPON LANDFILL

SOUTHEAST CORNER

SURFACE ELEVATION	DESCRIPTION OF MATERIAL	GEOLOGIC ORIGIN	N	WL	SAMPLE		LABORATORY TESTS						
					NO	TYPE	W	D	LL	PI	C		
	No samples - refer to log of Boring 2												
	SAND, fine-grained, some gravel, a little silt, brown, a few cobbles, boulders and limestone fragments, damp, very dense  (SP-SM)	TILL			100/.5'	1	SB						
					100/.5'	2	SB						
	Hard Continuous Limestone slab	LARGE BOULDER											
	CONTINUED ON NEXT PAGE												
	Monitoring well was installed at this boring - see installation diagram.												

LOG OF TEST BORING

JOB NO 97-1783

VERTICAL SCALE 1" = 3'

#6  
103

BORING NO 2A (6)

PROJECT MONITORING WELLS, RIPON LANDFILL

DEPTH IN FEET	DESCRIPTION OF MATERIAL	GEOLOGIC ORIGIN	N	WL	SAMPLE		LABORATORY TESTS				
					NO.	TYPE	W	D	LL/PL	Qu	
	SURFACE ELEVATION _____										
41	Continued From First Page										
	SAND, medium to coarse-grained, with gravel, a little silt, brown, a few limestone fragments, water-bearing, very dense, a limestone slab at 43'	TILL		49	3	SB					
	END OF BORING										
	(This boring was 7' west of staked location)										

WATER LEVEL MEASUREMENTS

START 10-9-81 COMPLETE 10-9-81

TIME	SAMPLED DEPTH	CASING DEPTH	CAVE-IN DEPTH	BAILED DEPTHS	WATER LEVEL	METHOD
						@ 1735

RECORD OF SUBSURFACE EXPLORATION

GILES ENGINEERING ASSOCIATES, INC.

Boring No. 37

#7  
104

CONSULTING SOIL AND  
FOUNDATION ENGINEERS

Project: Donohue and Associates, Inc.

Date: March 31, 1982

Ripon Land Fill, Ripon, Wisconsin

GEA Project No.: 820328

DESCRIPTION Ground Surface Elevation	Depth Below Surface	Sample No. & Type	N	q <sub>u</sub>	q <sub>p</sub>	q <sub>s</sub>	W	REMARKS
Miscellaneous Garbage		1-AI						<i>abandoned well</i>
Brown Silty Clay, with Gravel and Miscellaneous Garbage Fill - Wet	5'	2-SS	3					
Brown Silty Clay, with Gravel and Miscellaneous Garbage Fill - Wet	10'	3-SS	9					
Brown fine to medium Gravel with Miscellaneous Garbage Fill - Wet	15'	4-SS	12					
Brown Silty Clay with fine to coarse Sand and Miscellaneous Garbage Fill - Wet	20'	5-SS	12					
Brown Silty Sand and Gravel with Miscellaneous Garbage Fill - Wet	25'	6-SS	7					
Brown fine to coarse Sand and Gravel with Miscellaneous Garbage Fill - Wet	30'	7-SS	17					
Brown Silty fine to coarse Sand and Gravel with Miscellaneous Garbage Fill - Wet	35'	8-SS	35					
Brown fine to coarse Sands and Gravel with Cobbles & Boulders - Wet	40'	9-SS	64					
Gray Silty, fine to coarse Sand and Gravel with Boulders - Wet	45'	10-SS	21					

Changes of strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between boring locations.



GILES ENGINEERING ASSOCIATES, INC.

Boring No. 37 Page Two

CONSULTING SOIL & FOUNDATION ENGINEER

Project: Donohue and Associates, Inc. Date: March 31, 1982

Ripon Land Fill, Ripon, Wisconsin GEA Project No.: 820328

DESCRIPTION	Depth Below Surface	Sample No. & Type	N	q <sub>u</sub>	q <sub>p</sub>	q <sub>t</sub>	w	REMARKS
Gray Silty fine to coarse Sand with some fine to medium Gravel - Wet		10-SS	21					
	50'	11-SS	30					
Boring terminated at 51'	55'							
Well Installed to 50'	60'							

Changes of strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between boring locations.

LOG OF TEST BORING

JOB NO. 97-1783

VERTICAL SCALE 1" = 4'

BORING NO. 4A (8)

PROJECT: MONITORING WELLS, RIPON LANDFILL

NORTHEAST CORNER

DEPTH IN FEET	DESCRIPTION OF MATERIAL SURFACE ELEVATION _____	GEOLOGIC ORIGIN	N	WL	SAMPLE		LABORATORY TESTS				
					NO	TYPE	W	D	U <sub>1</sub>	U <sub>2</sub>	
	FILL, MOSTLY SILTY SAND, a little gravel and limestone, a few cobbles and boulders, dark brown	FILL				1	HSA				
4	SANDY CLAY, dark brown, seams of silty sand, trace of gravel, very stiff (CL)	POSSIBLE FILL	39			2	SB				
8½	SAND, fine-grained, a little gravel, brown, trace cobbles, a few boulders and limestone fragments, damp, very dense (SP-SM)	TILL				3	HSA				
			65.2			4	SB				
17½	SAND, fine to coarse-grained, some gravel, a little silt, brown, a few cobbles and limestone fragments, water-bearing, dense (SW-SM)		32			5	SB				
					24	6	SB				
					27						
32	(CONTINUED ON NEXT PAGE)										

LOG OF TEST BORING #8

JOB NO 97-1783

VERTICAL SCALE 1" = 4'

BORING NO 4A (8)

PROJECT MONITORING WELLS, RIPON LANDFILL

DEPTH IN FEET	DESCRIPTION OF MATERIAL SURFACE ELEVATION _____	GEOLOGIC ORIGIN	N	WL	SAMPLE		LABORATORY TESTS				
					NO.	TYPE	W	D	LL PL	QU	
32	(CONTINUED FROM FIRST PAGE)										
36 1/2	SAND, fine to coarse-grained, with gravel, a little silt, brown, a few cobbles and limestone fragments, possible boulders at 32 1/2', water-bearing, very dense (SW-SM)	TILL	47		8 9	SB SB					
	END OF BORING										
	(This boring was made at staked location)										
	A 2" monitoring well was installed at this boring - see installation diagram.										

WATER LEVEL MEASUREMENTS

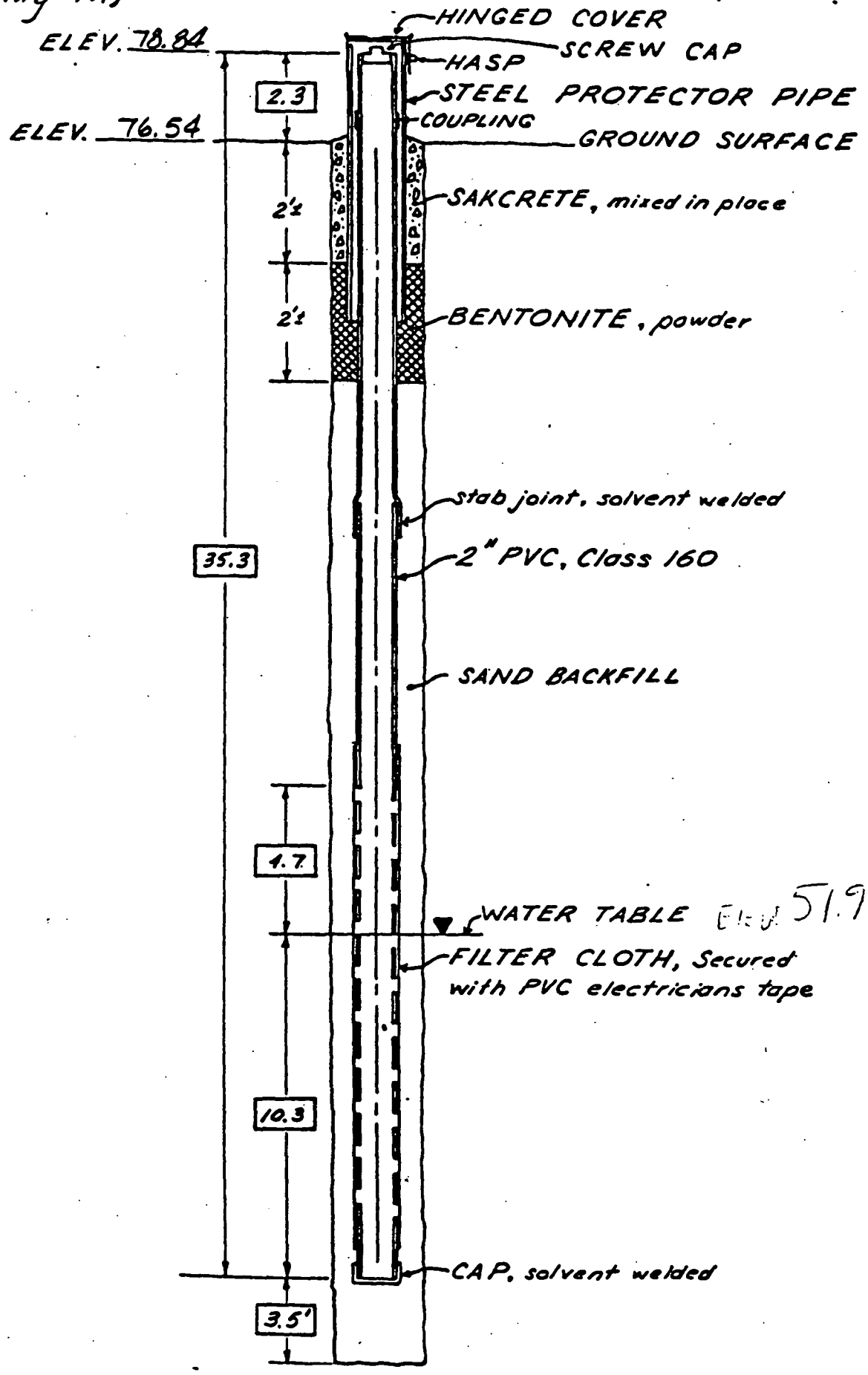
START 10-8-81 COMPLETE 10-8-81

DATE	TIME	SAMPLED DEPTH	CASING DEPTH	CAVE-IN DEPTH	BALED DEPTHS	WATER LEVEL
10-8	1525	26.5'	24.5'	24.3'	∞	22.5'
10-8	1545	31.5'	29.5'	29.8'	∞	22.8'

METHOD	WELL NO.
HSA	0-34.5'
	@ 1615

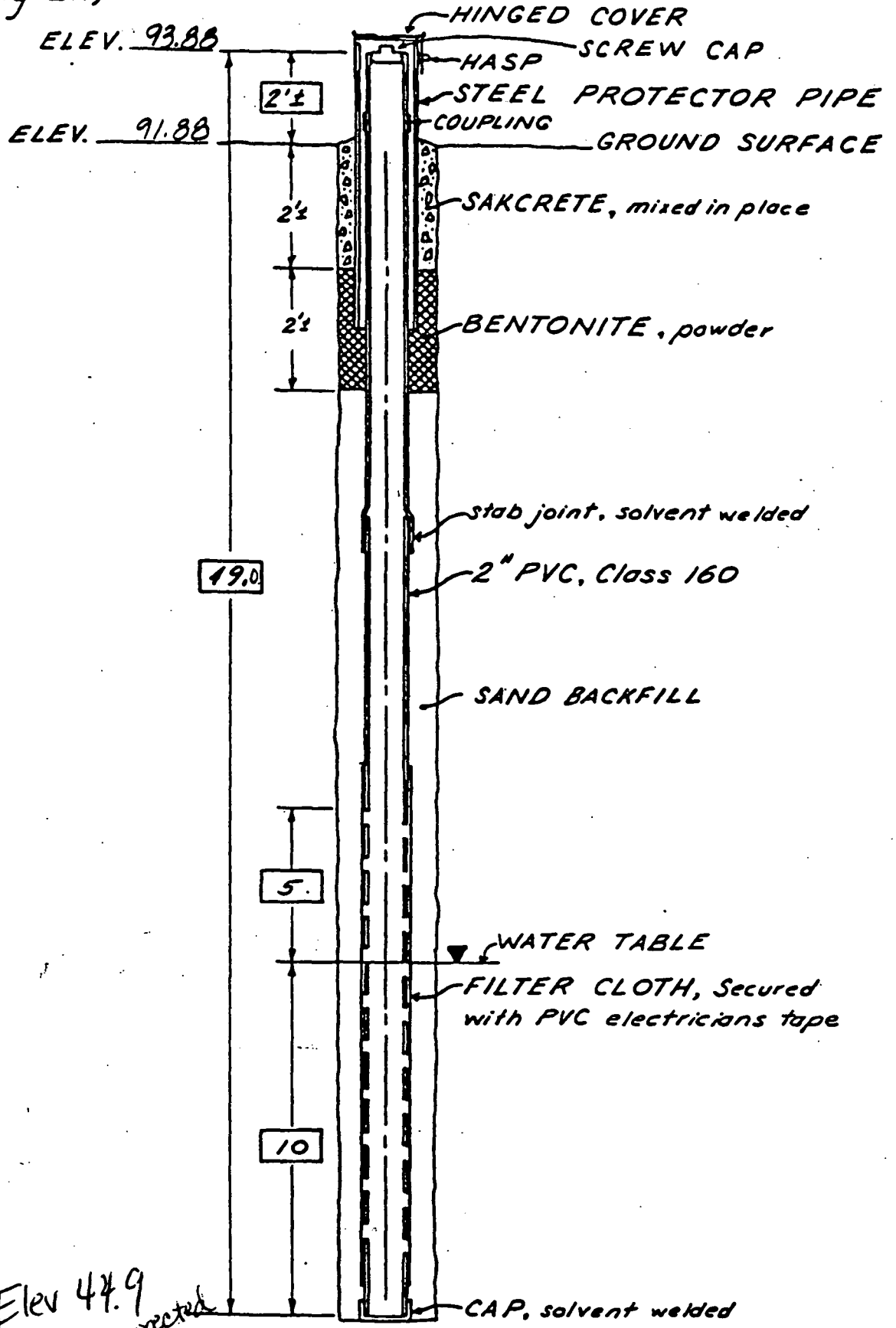
WELL 4 - RIPON  
(Boring 4A)

DC



WELL 2 - RIPON  
(Boring 2A)

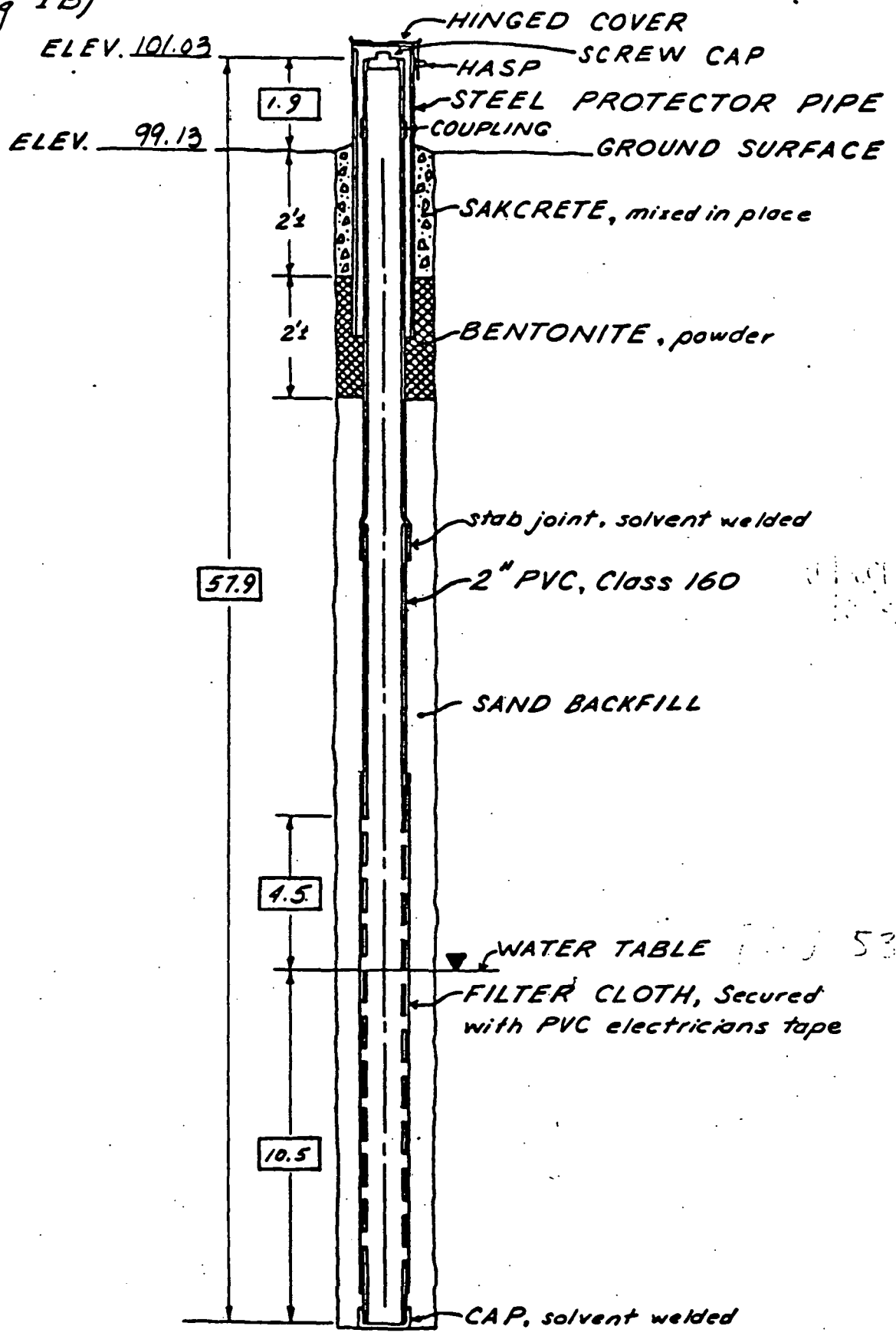
DC



Elev 44.9  
(~~44.9~~ corrected  
in Jan 29, 82  
letter)

WELL #1 - RIPON  
(Boring 1B)

00



WISCONSIN UNIQUE WELL NUMBER 51971

APPENDIX C

Property Owner Kenneth Bosveld Telephone Number 519 744-2010  
 Mailing Address N8863 Koro Rd.  
 City Ripon State Wis Zip Code 51971  
 County of Well Dodge County Well Location W Well Completion Date 6-3-99  
 Location Permit No. W M M D D Y Y

1. Location (Please type or print using a black pen.)  
 Town  City  Village Fire # (if available)  
 of RIPON  
 Grid or Street Address or Road Name and Number (if available)

Well Constructor (Business Name) Zoellner Central Well Drill Registration # 2240 Well location in correct 40-acre parcel of section.  
 Address P.O. Box 405  
 City Brandon State Wis Zip Code 53919  
 W N E S

Subdivision Name \_\_\_\_\_ Lot # \_\_\_\_\_ Block # \_\_\_\_\_  
 Gov't Lot # \_\_\_\_\_ or NE 1/4 of NE 1/4 of Section 18 T 16 N: R 14 E  W  
 3. Well Type  New  Replacement  Reconstruction  
 of unique well # \_\_\_\_\_ constructed in 19 \_\_\_\_\_  
 Reason for new, replaced or reconstructed well?  
Old Well Contaminated

4. Well serves 1 # of homes and/or \_\_\_\_\_ High Capacity Well?  Yes  No  
 (ex: barn, restaurant, church, school, industry, etc.) High Capacity Property?  Yes  No

Drilled  Driven Point  Jetted  Other \_\_\_\_\_

5. Well Located on Highest Point of Property, Consistent with the General Layout and Surroundings?  Yes  No If no, explain on back side.  
 Well Located in Floodplain?  Yes  No 9. Downspout/Yard Hydrant \_\_\_\_\_ 17. Wastewater Sump \_\_\_\_\_  
 Distance In Feet From Well To Nearest: 10. Privy \_\_\_\_\_ 18. Paved Animal Barn Pen \_\_\_\_\_  
420 1. Landfill Variance Recieved 11. Foundation Drain to Clearwater \_\_\_\_\_ 19. Animal Yard or Shelter \_\_\_\_\_  
437 2. Building Overhang \_\_\_\_\_ 12. Foundation Drain to Sewer \_\_\_\_\_ 20. Silo - Type \_\_\_\_\_  
507 3. Septic or Holding Tank \_\_\_\_\_ 13. Building Drain \_\_\_\_\_ 21. Barn Gutter \_\_\_\_\_  
727 4. Sewage Absorption Unit \_\_\_\_\_  Cast Iron or Plastic  Other \_\_\_\_\_ 22. Manure Pipe  Gravity  Pressure  
 \_\_\_\_\_ 5. Nonconforming Pit \_\_\_\_\_ 14. Building Sewer  Gravity  Pressure  Cast Iron or Plastic  Other \_\_\_\_\_  
 \_\_\_\_\_ 6. Buried Home Heating Oil Tank \_\_\_\_\_  Cast Iron or Plastic  Other \_\_\_\_\_ 23. Other Manure Storage \_\_\_\_\_  
 \_\_\_\_\_ 7. Buried Petroleum Tank \_\_\_\_\_ 15. Collector or Street Sewer \_\_\_\_\_ Other NR 112 Waste Source \_\_\_\_\_  
 \_\_\_\_\_ 8. Shoreline/Swimming Pool \_\_\_\_\_ 16. Clearwater Sump \_\_\_\_\_ 24. \_\_\_\_\_

6. Drillhole Dimensions			Method of constructing upper enlarged drillhole only.
Dia. (in.)	From (ft.)	To (ft.)	
<u>8 3/4</u>	<u>surface</u>	<u>301</u>	<input checked="" type="checkbox"/> 1. Rotary - Mud Circulation <input type="checkbox"/> 2. Rotary - Air <input type="checkbox"/> 3. Rotary - Foam <input type="checkbox"/> 4. Reverse Rotary <input type="checkbox"/> 5. Cable-tool Bit _____ in. dia. <input type="checkbox"/> 6. Temp. Outer Casing _____ in. dia. Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No If no, explain _____ <input type="checkbox"/> 7. Other _____
<u>6</u>	<u>301</u>	<u>350</u>	

DNR USE ONLY	9. Geology		From (ft.)	To (ft.)
	Type, Caving/Noncaving, Color, Hardness, Etc.			
	<u>Clay</u>		<u>surface</u>	<u>6</u>
	<u>Gravel</u>		<u>6</u>	<u>26</u>
	<u>Sand + Gravel</u>		<u>26</u>	<u>49</u>
	<u>Shale</u>		<u>49</u>	<u>52</u>
	<u>Sand + Gravel</u>		<u>52</u>	<u>91</u>
	<u>Clay</u>		<u>91</u>	<u>128</u>
	<u>Sandy Clay</u>		<u>128</u>	<u>142</u>
	<u>Clay</u>		<u>142</u>	<u>175</u>
	<u>Sandstone</u>		<u>175</u>	<u>300</u>
	<u>Shale Layer</u>		<u>225</u>	<u>227</u>

7. Casing, Liner, Screen  
 Material, Weight, Specification From To  
 Dia. (in.) Mfg. & Method of Assembly (ft.) (ft.)  
6 New Black Steel surface 301  
18.97 # per ft  
1780 PSI  
API 5L Under Sandhill

10. Static Water Level \_\_\_\_\_ ft. above ground level  
52 ft. below ground surface  
 11. Pump Test  
 Pumping Level 25 ft. below surface  
 Pumping at 15 GPM for 3 hours  
 12. Well Is: 12 in.  Above Grade  Below Grade  
 Developed?  Yes  No  
 Disinfected?  Yes  No  
 Capped?  Yes  No

8. Grout or Other Sealing Material  
 Method Pressure From To Sacks  
 Kind of Sealing Material (ft.) (ft.) Cement  
Mud + Cuttings surface 6  
Cement 6 301 65

13. Did you permanently seal all unused, noncomplying, or unsafe wells?  
 Yes  No If no, explain \_\_\_\_\_  
 14. Signature of Point Driver or Registered Driller Larry J. Slager Date Signed 6-5-99  
 Signature of Drill Rig Operator Same Date Signed \_\_\_\_\_

GENERAL INFORMATION

(4) FACILITY NAME

Well/Drillhole Location: Fond Du Lac  
 County: Fond Du Lac  
 NE 1/4 of 21E 1/4 of Sec. 18; T. 16 N; R. 14 W  
 (If applicable) Gov't Lot \_\_\_\_\_ Grid Number \_\_\_\_\_  
 Civil Town Name: Ripon  
 Street Address of Well: N 8863 Koro Rd  
 City, Village: \_\_\_\_\_  
 Date of Abandonment: 7/12/90

Original Well Owner (If Known): \_\_\_\_\_  
 Present Well Owner: Kenneth Roswell  
 Street or Route: N 8863 Koro Rd  
 City, State, Zip Code: Ripon Wis 54971  
 Well Number and/or Name (If Applicable): CB 577  
 Reason For Abandonment: Well is Contaminated

WELL/DRILLHOLE INFORMATION

(3) Original Well/Drillhole Construction Completed on (Date) 6/3/89  
 Water Well  
 Drillhole  
 Construction Report Available?  Yes  No  
 Construction Type:  
 Drilled  Driven (Sandpoint)  Dug  
 Other (Specify) \_\_\_\_\_  
 Well Type:  
 Unconsolidated Formation Well  Bedrock Well  
 Total Well Depth (ft.) 350 Casing Diameter (ins.) 6"  
 Casing Depth (ft.) 301  
 Was Well Annular Space Grouted?  Yes  No  Unknown  
 If Yes, To What Depth? 301 Feet

(4) Depth to Water (Feet) 55  
 Pump & Piping Removed?  Yes  No  Not Applicable  
 Liner(s) Removed?  Yes  No  Not Applicable  
 Screen Removed?  Yes  No  Not Applicable  
 Casing Left in Place?  Yes  No  
 If No, Explain \_\_\_\_\_  
 Was Casing Cut Off Below Surface?  Yes  No  
 Did Sealing Material Rise to Surface?  Yes  No  
 Did Material Settle After 24 Hours?  Yes  No  
 If Yes, Was Drillhole Retopped?  Yes  No

(5) Required Method of Placing Sealing Material  
 Conductor Pipe-Gravity  Conductor Pipe-Pumped  
 Dump Bailer  Other (Explain) \_\_\_\_\_

(6) Acceptable Sealing Materials  
 Neat Cement Grout  Concrete Grout;  Concrete;  Clay Slurry;  
 Sodium Bentonite Slurry

(7) Kind of Sealing Material	From (Ft.)	To (Ft.)	No. Yards or Sacks Sealant	Mix Ratio or Mud Weight
<u>Neat Cement Grout</u>	<u>Surface</u>	<u>350</u>	<u>68</u>	

(8) Comments: \_\_\_\_\_

(9) Name of Person or Firm Doing Sealing Work: Noellner Cantor Well Drilling  
 Signature of Person Doing Work: Tom O'P  
 Date Signed: 7/12/90  
 Street or Route: P.O. Box 405  
 Telephone Number: (714) 346-5114  
 City, State, Zip Code: Bronson Wis 53919

(10) FOR DNR OR COUNTY USE ONLY  
 Date Received/Inspected: \_\_\_\_\_ District/County: \_\_\_\_\_  
 Reviewer/Inspector: \_\_\_\_\_  
 Follow-up Necessary: \_\_\_\_\_

DNR/COUNTY

DNR/COUNTY



# APPENDIX D

## WELL CONSTRUCTOR'S REPORT

Well-6

JUN 22 1972

STATE OF WISCONSIN  
DEPARTMENT OF NATURAL RESOURCES  
Box 450  
Madison, Wisconsin 53701

WHITE COPY - DIVISION'S COPY  
GREEN COPY - DRILLER'S COPY  
YELLOW COPY - OWNER'S COPY

1. COUNTY Fond du lac CHECK ONE  Town  Village  City NAME Ripon

2. LOCATION (Number and Street or 1/4 section, section, township and range. Also give subdivision name, lot and block numbers when available.)

NW 1/4 of NW 1/4 of SW 1/4, Section 17, Town 16N, Range 14E.

3. OWNER AT TIME OF DRILLING  
Wisconsin Power & Light Company

4. OWNER'S COMPLETE MAIL ADDRESS  
Ripon, Wisconsin

5. Distance in feet from well to nearest:

BUILDING	SANITARY SEWER	FLOOR DRAIN	FOUNDATION DRAIN	WASTE WATER DRAIN
C. I.	TILE	C. I.	SEWER CONNECTED	C. I.
			INDEPENDENT	TILE

CLEAR WATER DRAIN	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILLO	ABANDONED WELL	SINK HOLE
C. I.	TILE							

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

6. Well is intended to supply water for:  
Municipality (Ripon, Wisconsin)

7. DRILLHOLE						10. FORMATIONS			
Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)	Kind	From (ft.)	To (ft.)	
24"	Surface	114'	23"	114'	320'	Clay	Surface	3'	
						Sand, gravel with streaks of clay	3'	40'	
						Hardpan	40'	43'	

8. CASING, LINER, CURBING, AND SCREEN				10. FORMATIONS			
Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)	Kind	From (ft.)	To (ft.)	
24"	3/8 wall steel black A53 Grade B welded	Surface	114'	Hardpan and boulders	58'	101'	
16"	3/8 wall black A53 Grade B welded	12"+	135'	Streaks of hardpan, muddy sand and broken sandstone	101'	114'	
				Sandstone with streaks of shale	114'	118'	
				Shale	122'	127'	
				Sandstone with streaks of shale	127'	133'	
				Red sandstone	133'	154'	
				Yellow sandstone	154'	170'	

9. GROUT OR OTHER SEALING MATERIAL			
Kind	From (ft.)	To (ft.)	
Neat Cement	Surface	135'	

11. MISCELLANEOUS DATA

Well construction completed on June 19 72

Yield test: 12 Hrs. at 395 GPM Well is terminated 12 inches  above  below final grade

Depth from surface to normal water level 19' 5" ft. Well disinfected upon completion  Yes  No

Depth to water level when pumping 130 ft. Well sealed watertight upon completion  Yes  No

Water sample sent to \_\_\_\_\_ State laboratory on: May 23, 19 72

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, sub-surface pumphrooms, access pits, etc., should be given on reverse side.

SIGNATURE T. E. Leicht COMPLETE MAIL ADDRESS 6005 West Martin Drive  
LAYNE-NORTHWEST COMPANY Registered Well Driller

# WELL CONSTRUCTOR'S REPORT

Well-6

WHITE COPY - DIVISION'S COPY  
GREEN COPY - DRILLER'S COPY  
YELLOW COPY - OWNER'S COPY

STATE OF WISCONSIN FL-360  
DEPARTMENT OF NATURAL RESOURCES  
Box 450  
Madison, Wisconsin 53701

37

MAR 23 1978

1. COUNTY - Fond du Lac CHECK ONE  Town  Village  City NAME Ripon

2. LOCATION (Number and Street or 1/4 section, section, township and range. Also give subdivision name, lot and block numbers when available.)  
Sec. 17 T.16 N. - R. 14 E. N.W. 1/4 of the S.W. 1/4

3. OWNER AT TIME OF DRILLING  
Wisconsin Power & Light Company

4. OWNER'S COMPLETE MAIL ADDRESS  
Ripon, Wisconsin

5. Distance in feet from well to nearest:

BUILDING	SANITARY SEWER	FLOOR DRAIN	FOUNDATION DRAIN	WASTE WATER DRAIN
C. I.	TILE	C. I.	TILE	C. I.
			SEWER CONNECTED	INDEPENDENT

CLEAR WATER DRAIN	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILLO	ABANDONED WELL	SINK HOLE
C. I.	TILE							

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

6. Well is intended to supply water for:  
Test Well

7. DRILLHOLE						10. FORMATIONS		
Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)	Kind	From (ft.)	To (ft.)
8 3/4	Surface	133				(SEE OTHERSIDE FOR	Surface	
6	133	343				FORMATIONS)		

8. CASING, LINER, CURBING, AND SCREEN			
Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
6	New, Black, Steel	Surface	133
	18.97 lbs. per ft.		
	P.E.		
	Rotary		

9. GROUT OR OTHER SEALING MATERIAL			
Kind	From (ft.)	To (ft.)	
Neat Cement - - - -	Surface	120	

Unable to grout below 120' because shale squeezed in on the casing, unable to get grouting pipe below this.

11. MISCELLANEOUS DATA				Well construction completed on			
Yield test:	72 Hrs. at	288 GPM		18 inches	<input checked="" type="checkbox"/> above	final grade	1 - 26 1971
Depth from surface to normal water level	19 ft.			Well disinfected upon completion	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Depth to water level when pumping	83 ft.			Well sealed watertight upon completion	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	

Water sample sent to Madison laboratory on: 2 - 16 1971

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, sub-surface pumphrooms, access pits, etc., should be given on reverse side.

SIGNATURE Richard J. Zellner Registered Well Driller COMPLETE MAIL ADDRESS Brandon, Wisconsin

Please do not write in space below

COLIFORM TEST RESULT	GAS - 24 HRS.	GAS - 48 HRS.	CONFIRMED	REMARKS
File - S.G.S. - LM Dist.				

0	-	5	-	Clay
5	-	50	-	Gravel & Boulders
50	-	60	-	Clay
60	-	80	-	Gravel, Clay & Boulders
80	-	92	-	Limerock
92	-	100	-	Gravel
100	-	105	-	Sand
105	-	120	-	Sandstone Soft (Green)
120	-	126	-	Shale (Red)
126	-	145	-	Sandstone Soft (Green)
145	-	150	-	Sandstone (Green)
150	-	160	-	Sandstone (Red)
160	-	173	-	Sandstone (Yellow)
173	-	175	-	Sandstone (Pink)
175	-	205	-	Sandstone (Yellow)
205	-	208	-	Sandstone (Red)
208	-	210	-	Sandstone (Green)
210	-	213	-	Sandstone (White)
213	-	230	-	Sandstone (Green)
230	-	248	-	Sandstone (White)
248	-	270	-	Sandstone (Pink)
270	-	280	-	Sandstone (White)
280	-	283	-	Sandstone (White-Red layers)
283	-	285	-	Sandstone (White)
285	-	290	-	Sandstone (Pink)
290	-	295	-	Sandstone (White-Red layers)
295	-	316	-	Sandstone (White)
316	-	317	-	Sandstone (Yellow)
317	-	335	-	Sandstone (White)
335	-	343	-	Sandstone (Red)

This document contains a list of geological strata with their corresponding elevations and descriptions. The list is organized in a tabular format with four columns: elevation (top), range (middle), elevation (bottom), and description (right). The strata listed include Clay, Gravel & Boulders, Limerock, Sand, and various types of Sandstone (Soft, Green, Red, Yellow, Pink, White, and White-Red layers). The elevations range from 0 to 343 feet.

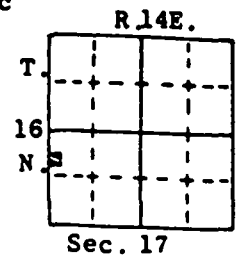
Below the list, there is a large section of faint, illegible text, likely bleed-through from the reverse side of the page. At the bottom right, there is a handwritten signature or mark.

Well name Wisconsin Power & Light Co. Well #9

County: Fond du Lac

Owner.... Wisconsin Power & Light Co.  
 Address... 112 Watson St., P.O. Box 203  
 Ripon, WI 54971  
 Driller.. Layne-Northwest Co.  
 Engineer. Wisconsin Power & Light Co.  
 Madison, Wisconsin

Completed... 6/72  
 Field check.  
 Altitude.... 843' ETM  
 Use..... Municipal  
 Static w.l.. 19' 5"  
 Spec. cap... 3.5 GPM/ft.



Quad. Ripon 7 1/2'

Drill Hole						Casing & Liner Pipe or Curbing							
Dia.	from	to	Dia.	from	to	Dia.	Wgt. & Kind	from	to	Dia.	Wgt. & Kind	from	to
24"	0	114'	23"	114'	320'	24"	3/8 wall steel bk A53 Grade B welded +6"	114'		16"	3/8 wall bk A53 Grade B welded	12"	135'

Drilling method:  
 Samples from 0 to 320' Rec'd: 1/5/73

Grout	from	to
Neat Cement	0	135'

Studied by: Kathleen Massie

Issued: 5/6/83

Formations: Surface, Drift, St. Peter Sandstone.

Remarks: Well tested for 12 hours at 395 GPM with 110' 7" of drawdown.

LOG OF WELL:

Depth	Graphic Section	Rock Type	Color	Grain Size		Miscellaneous Characteristics
				Mode	Range	
0-5		Soil	Dk brown	—	—	Little gravel. Trace organic material.
5-10		Gravel	Mxd brown	L pnb	Gran/VL pnb	Fos dolomite, dol, quartz, cht, dol cem ss, trap, granite, ltl sand.
10-15		"	Mxd grey	M pnb	Gran/L pnb	Same but much sand.
15-20		Sand	"	C	Vfn/Vc	Many dolomite frags. Much gravel. Ltl silt. Trace clay.
20-25		Gravel	"	M pnb	Gran/L pnb	Fos dol, dol, qtz, cht, grnt, trap. Much sand (most dolic), Tr silt.
25-30		Sand	"	C	Vfn/Vc	Many dolomite fragments. Much gravel. Trace silt.
30-35		Gravel	"	L pnb	Gran/VL pnb	Fos dolomite, dolomite, quartz, chert, trap, granite. Much sand.
35-40		Sand	Brown	Fn	Vfn/Vc	Dolomitic. Much silt. Little clay. Trace gravel.
40-45		"	"	C	"	Many dolomite fragments. Much gravel. Trace silt.
45-50		Clay	Gry brown	—	—	Calcareous. Much silt. Little sand.
50-55		Silt & cl	"	—	—	Calcareous. Little sand, Trace gravel.
55-60		Snd & silt	"	Fn	Vfn/Vc	Calcareous. Much gravel, clay.
60-65		"	"	"	"	Same.
65-70		"	"	"	"	"
70-75		"	"	Fn/M	"	Same but little gravel.
75-80		Silt & cl	"	—	—	Calcareous. Much sand. Little gravel.
80-85		Snd & silt	"	M	Vfn/Vc	Calcareous. Much clay. Little gravel.
85-90		Gravel	Bk & grey	Gran	Gran/M pnb	Gab, dior, fos dol, dol, qtz, grnt. Much sand.
90-95		Snd & silt	Gry brown	M	Vfn/Vc	Calcareous. Much clay. Little gravel.
95-100		"	"	"	"	Same but much gravel.
100-105		"	Brown	"	"	Little dolomitic clay. Trace gravel.
105-110		Sandstone	Pl gry bn	M/C	"	Rounded. Much caved gravel.
110-115		"	V pl bn	M	"	Rounded. Tr G sil cem, w/pnk chert. Trace caved gvl & sand.
115-120		"	Red	Fn	Vfn/Vc	Srnd. Ltl V G sil cem, st. Mch hemic sh. Tr cvd gvl & snd, wh
120-125		"	Yl red	M	"	See end of log. siliceous matx.
125-130		"	Red	"	"	Same but much hematitic shale.
130-135		"	Yl red	"	"	Srnd, Mch yl rd shale, Tr dk rd bn ss as above (cvd?), st. Fn
135-140		"	"	"	"	Sang, glauconite.
140-145		"	Dull yl rd	"	"	Srnd. Ltl dull yl rd sh. Tr dk rd bn ss as above (cvd?), st. Fn/M
145-150		"	"	"	"	Same. glauconite.
150-155		"	Lt brown	"	"	Srnd to sang. Tr sil cem, Fn/M glauc, st, dk rd bn ss (as above, cvd).
155-160		"	Yl red	"	"	Srnd. Mch yl rd dolic sh, Ltl yl calcus sh (occ in layers?), st. Ltl pl yl shale. Trace Fn/M glauconite.

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Well name: Wisconsin Power & Light Co. Well #9

Depths	Graphic Section	Rock Type	Color	Grain Size		Miscellaneous Characteristics
				Mode	Range	
		Sandstone	Yl red	Fn	Vfn/VC	Srnd. Mch yl rd dolc sh, st. Tr dol cem, Fn glauconite.
		"	Rd yellow	M	"	Srnd. Mch red yellow dolc shale. Ltl silt. Tr Fn-glauconite.
		"	"	Fn	"	Same plus trace good silica cement.
S		"	"	Fn&C	"	Srnd. Tr dol & lim cem, pnk cht, Fn glauc. Mch rd yl dolc sh, st.
T		"	"	C	"	Same plus trace pale yellow green dolomitic shale.
		"	"	"	"	Same but no glauconite.
P		"	"	"	"	Srnd. Trace dolomite cem, pnk chert. Mch rd yl dolc sh, silt.
		"	"	Fn&C	"	Same.
E		"	Strg bn	M	"	Same but strong brown shale.
		"	Brown	C	"	Srnd. Tr G dol cem, Fn/M glauc, pl gn sh, pnk cht. Much dolc
T		"	"	"	"	shale.
E		"	V pl brown	"	"	Srnd to sang. Tr P dol cem, Fn/M glauc, mfc incl, pnk cht. Ltl
		"	"	M/C	"	Srnd. Tr sil cem, Fn-glauc, mfc incl, pnk cht, silt. silt, shale.
R		"	"	"	"	Same.
		"	"	"	"	Same but no cement.
S		"	"	C	"	Srnd. Tr pnk cht(w/tr fltg and), Fn-glauc, mfc incl, pl gn micus
A		"	"	M/C	"	shale. Ltl silt.
		"	Lt rd brown	C	"	Same but much silt.
N		"	"	"	"	Srnd. Mch pnk dolc sh, pnk cht(w/tr rd bn hemic stng, bk hem, thin
D		"	"	"	"	Same plus tr pl gn shale. qtz layers, micus incl). Tr calc x's.
S		Ss & chert	Rd yellow	M/C	"	See end of log.
T		"	"	"	"	Same plus tr mssv glauc, but tr dk rd bn hemic stng.
O		Chert	"	"	"	Ltl ss(as above), fltg and, siliceous pnk sh. Few thin qtz layers.
N		Sandstone	Pink	M	Vfn/C	Srnd. Tr G to F Tr st, mssv glauc, bk hem, dk rd bn hemic stng.
E		"	"	"	"	Same. sil cem, mssv glauc, Mch pnk sh, st. Ltl cht(as above)
		"	Rd yellow	"	Vfn/VC	Srnd. Tr G silcem, dol, rd yl cht. Mch siliceous rd yl sh. Ltl
		"	Lt red	"	"	Same plus tr wh siliceous & rd bn hemic shale. silt.
		"	"	"	"	Same but much silt.
		"	Rd yellow	M/C	"	Srnd. Mch rd yl siliceous cl. Ltl st. Tr wh siliceous & rd bn
		"	"	"	"	hemic shale.
		"	Pink	M	"	Srnd. Tr G silcem, dol, pl gn shale. Ltl pnk siliceous shale.
		"	Rd yellow	"	"	Srnd. Mch wh siliceous sh, pl gn micus sh, rd bn hemic sh. Tr st.
215		"	Pnk white	"	"	Subrounded. Little caved red yellow shale & sandstone. Trace silt, one quartz granule.
END OF LOG						
		Sandstone	Yl red	M	Vfn/VC	Subangular. Little good silica cement. Trace hematitic shale. Much hard dark red brown hematitic very glauconitic Fn sandstone with trace fossil fragments, also with trace silica cemented micaceous & glauconitic sandstone.
		Ss & chert	Rd yellow	M/C	Vfn/VC	Subrounded. Trace calcite cement, black hematite & floating sand (chert), pale green shale. Few quartz layers (chert). Little dark red brown hematitic staining. Much dolomitic pink shale.

WISCONSIN POWER AND LIGHT CO. WIS., RIPON, WIS.  
 Sec. 21, T. 18 N., R. 14 E.  
 Paul and Sonstone, Engineers  
 O. J. Taylor, Contractor, 1931  
 Logs obtained by F. J. Swaiter, Nos. 46081-46077  
 Elevation 925



D C O N T A I N S	15	0-15	15		Drift, no samples	16" od. pipe 29'3" 13" od. pipe 50 Grout 12" hole 10" pipe 97  10" hole
		15-60	45		Dolomite, light gray	
	65	60-80	20		Dolomite, light blue-gray; some s and, shale	
		80-100	20		Sandstone, coarse to fine, yellowish gray, dol.	
	30	100-110	10		Conglomerate, chert pebb. in hard pink ss.	
		110-170	60		Dolomite, pinkish gray, cherty, pyritic	
		170-200	30		Dolomite, light gray; chert, white	
		200-230	30		Dolomite, light gray	
	130	230-240	10		Dolomite, light gray, sandy; shale, green	
		240-300	60		Sandstone, coarse to fine, white	
	65	300-305	5		Dolomite, yellowish gray, purple, sandy, glau.	
		305-325	20		Sandstone, fine, light yellow-gray, dol, glauc.	
		325-325	10		Sandstone, fine to medium, lt. vel.-gray, dol.	
		335-385	50		Sandstone, fine, light gray, dolomitic	
		325-395	10		No sample	
		395-400	5		Dolomite, dark red, sandy, glauconitic	
		400-410	10		Sandstone, fine, dark red, dol., glauconitic	
		410-420	10		Sandstone, fine to medium, yellowish gray, dol.	
		420-425	5		Sandstone, medium to fine, white	
		425-430	5		Sandstone, very fine, pink	
	430-440	10		No sample		
	440-445	5		Sandstone, medium to fine, light pink		
	445-450	5		No sample		
	450-455	5		Sandstone, medium, light gray		
	455-465	10		No samples		
	465-470	5		Sandstone, medium to very fine, lt. vel.-gray.		
185	470-490	20		No samples		

Formations: Drift; Galena-Platteville; St. Peter; Lower Magnesian (Prairie du Chien); Trempealeau; Franconia (may have reached Dresbach)

DRILLED IN 1931 TO 470'  
 IN LATE 1930'S WAS BACKFILLED  
 TO ABOUT 380' AND A CONCRETE CAP WAS  
 PUT DOWN. RECENT MEASUREMENTS  
 PUT DEPTH AT 357' (R. WILLES - W.P.H.)

#5

TEST HOLE NO. 1, WISCONSIN POWER AND LIGHT CO., RIPON, WIS.  
 300' N. of creek on extension of Union St.; SE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 17, T. 16 N.,  
 I. E. Brown, Driller, 1948 C. H. Dobson, Engineer R. 14 E.  
 Samples examined by F. T. Thwaites, Nos. 140521-140565  
 Alt. = 850'

D R I F T	40	0-5	5		Soil, black
		5-10	5		Till, brown-gray, leached
		10-20	10		Till, yellow-gray, dolomitic
		20-30	10		Gravel, stony, gray
		30-40	10		Gravel, some sand, pink
S T P E T E R	185	40-45	5		Sandstone, fine, pink
		45-50	5		Dolomite, light gray, pink; sh, red; ss, pink
		50-60	10		Sandstone, quartzitic, light gray; shale, red
		60-75	15		Sandstone, medium to fine, light gray, yellow-gray, part quartzitic
		75-95	20		Sandstone, medium to fine, light gray
		95-100	5		Sandstone, medium to fine, light pink
		100-110	10		Sandstone, fine to medium, light pink
		110-115	5		Sandstone, medium to fine, red; shale, red
		115-120	5		Sandstone, fine to medium, pink
		120-130	10		Sandstone, fine to medium, light gray
		130-145	15		Sandstone, medium to fine, light gray
		145-150	5		Sandstone, medium to fine, light gray, dol.
		150-160	10		Sandstone, fine to medium, light pink, dol.
		160-175	15		Sandstone, medium to fine, light gray, dol.
		175-185	10		Sandstone, fine to medium, light gray, dol.
185-195	10		Shale, red; chert, gray, pink; dolomite, lt. gy		
195-200	5		Sandstone, medium to fine, pink; chert, gy, pk		
200-225	25		Chert, gray, pink; some shale, red		

4" hole. Water at 6 Tested at 300 g.p.m. specific capacity = 8.6 g.p.m./ft.

*test hole for*  
 Test No. 1 is now well #6; see FL-48.

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UNIT WELL NO. 6, WISCONSIN POWER AND LIGHT CO., RIPON, WIS.  
 SE 1/4 sec. 17, T. 16 N., R. 14 E. 10' from test hole  
 C. F. Dobson, Engineer I. E. Brown, Driller, 1949  
 Samples examined by J. T. Thwaites, Nos. 147271-147307

Alt. = 850'

D R I F T	0-5	5		Soil, black, sandy	8 water 20" pipe 16" pipe cemented	
	5-10	5		Till, rusty gray, weathered		
	10-35	25		Gravel, stony to sandy, some coarse		
S T R E P E R	45 35-45	10		Gravel, stony, red, some clay		60 75 15" hole
	45-65	20		Conglomerate, sandstone, fine, red; pebbles dolomite, chert; some shale, red		
	65-77	12		Sandstone, medium to fine, light gray, pink		
	77-85	8		Sandstone, fine to medium, light gray		
	85-90	5		Sandstone, fine to medium, pink, dolomitic		
	90-95	5		No sample		
	95-100	5		Sandstone, medium to fine, light gray		
	100-105	5		Sandstone, medium to fine, light pink		
	105-120	15		Sandstone, medium to fine, light pink; shale, red		
	120-130	10		Sandstone, fine to medium, light gray		
	130-145	15		Sandstone, medium to fine, light gray		
145-155	10		Sandstone, medium to fine, pink			
155-175	20		Sandstone, fine to medium, light gray, dolomitic			
140	175-180	5		Sandstone, fine to medium, lt. gy, red, dol.		
	180-185	5		Dolomite, sandy, gray, glauconitic		

Tested 5 hours at 550 g.p.m. specific capacity = 10.5 g.p.m./ft.



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Wisconsin Power & Light Well #9, Ripon, Wisconsin  
 NW, SE, Sec. 21, T 16N, R 14E  
 Egerer-Galloway Well Corp, Driller - April 24, 1963 E-22-6E  
 Sample Nos. 238564-238603, Examined by M. E. Ostrom - Jan, 1964

	0-5	5		St. dk bn, dolie: P. tr Mgvl. dol		+2'
	5-15	5		Dol, Myl bn, fn, dns, tr st, tr cl, pyr, snd		13' Water Lvl.
	15-20	5		Dol, Myl bn, fn, dns, mxd, tr cl, st, Mgvl		31, 20" Steel Pipe
	20-45	25		Dol, Myl bn, fn, dns, mxd, tr cl, pyr, Mgvl		19" Hole
	45-60	15		Dol, Myl bn, fn, dns, mxd, tr cl, pyr, tr snd		16" Temper Steel Pipe
	60-70	10		Dol, Myl bn, mot dk gry, fn, dns, mch cl, tr pyr		57'
	70-75	5		Dol, Myl bn, mot dk gry, M&fn, dns, mch cl, tr pyr		67'
75	75-80	5		Dol, dk gry, M&fn, dns, tr vl bn, tr cl, pyr		
5	80-85	5		Sh, lt bl gn, dolie: P, mch dol, tr pyr, snd		
	85-90	5		Dol, Mgry, M, por, tr vl bn, mch pyr, tr snd		
	90-95	5		Dol, Mgry, mot vl bn, M, dns, tr pyr, cl&snd		
	95-100	5		Dol, Mgry, mot vl bn, M&fn, dns, mch pyr, tr cl, snd		
	100-105	5		Dol, Myl bn, mot lt gry, M&fn, dns, tr pyr, cl&snd		
	105-115	10		Dol, Myl bn, mot lt gry, M&fn, dns, tr pyr, cl&snd		
	115-120	5		Dol, Myl bn, mot lt gry, M&fn, dns, mch pyr, tr cl, snd		
	120-125	5		Dol, lt vl bn, M&fn, por, dolie, mch cl, tr pyr		
	125-130	5		Dol, lt vl bn, M&fn, por, dolie, tr rd cl, pyr, snd		
	130-135	5		Dol, lt vl bn, M&fn, por, tr cl, pyr, snd		
	135-140	5		Dol, lt vl bn, M&fn, dns, tr cl, pyr, snd		15" Hole
	140-145	5		Dol, lt vl bn, M&fn, dns, mch pyr		
	145-155	10		Dol, lt vl bn, M&fn, dns, mch pyr, tr cl, snd		
	155-170	15		Dol, lt vl bn, M&fn, dns, tr pyr, tr cl, snd		
	170-175	5		Dol, lt vl bn, M&fn, dns, mch pyr, tr cl		
	175-200	25		Dol, lt vl bn, M&fn, dns, mch pyr, tr cl, snd		200'

Formations: Galena-Platteville, Glenwood, Prairie du Chien

Well tested for 6 hrs. at 380 gpm with 154 feet of drawdown.  
 Specific capacity = 2.5 gpm per foot of drawdown.

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Wisconsin Power and Light Co., Ripon, Wis.  
 NE 1/4, Sec. 21, T 16N, R 14E  
 I. E. Brown, Driller - Nov. 1, 1963  
 Sample Nos. 243127-243191, Examined by M.E. Ostrom - June, 1964

D 10	0-5	5		St. Mxd bn. Dol. P. mch cl. tr dol	10" Hole 10' 6" Pipe drill cuttings cement grout 61' 59" Water Lvl 6" Hole
	5-10	5		St. Myl bn. Dol. P. mch cl. and dol	
	10-20	10		Ss. or bn. M. fn. Sang. Partg. Si. P. trVfn. C. mch st. tr dol	
	20-25	5		Ss. or bn. M. fn. Sang. trVfn. C. mch st. tr stnd pyr	
	25-35	10		Ss. Myl or. M. fn. Sang. trVfn. C. mch st. cem. dol	
	35-45	10		Ss. lt vl or. M. fn. Sang. Partg. Si. P. trVfn. C. tr st. fe-cem	
	45-55	10		Ss. Vlt vl bn. M. C. Sang. Partg. Si. P. trVfn. tr fe-cem	
	55-60	5		Ss. Vlt vl bn. M. C. Si. VP. st tr fn. Vfn. tr Fe-cem	
	60-70	10		Ss. lt vl. M. fn. Sang. Partg. Si. VP. trC. tr stnd pyr. gry sts	
	70-75	5		Ss. lt pnk. mot coral vl. M. C. tr fn. tr Fe-cem. sts	
	75-80	5		Ss. Vlt vl. M. Srnd. Srnd. tr fn. C. tr Fe-cem. sts	
	80-85	5		Ss. lt coral. M. fn. Srnd. trC. tr Fe-cem. sts. calc	
	85-95	10		Ss. Vlt vl. mot pnk. M. Srnd. Partg. Si. P. trC. fn. Fe-cem. sts. calc	
	95-105	10		Ss. lt vl. mot coral. M. fn. Srnd. Partg. Si. P. trVfn. Fe-cem. dol	
	S T P E T E R	105-115	10		
115-120		5		Ss. Vlt vl. mot Vlt pnk. M. fn. trVfn. tr Fe-cem. foss	
120-130		10		Ss. lt coral. (mxd) M. fn. Srnd. Partg. Si. P. trVfn. tr stnd pyr C. mat mxd sh	
130-135		5		Sh. mxd. Si. VG. mch and. calc	
135-145		10		Sh. mxd. Si. VG. mat calc. tr and	
145-150		5		Dol. mxd. Vfn. fn. dns. mch mxd sh. tr calc. and	
150-155		5		Dol. mxd. fn. Sang. Partg. trC. mat sh. calc	
155-160		5		Dol. mxd. fn. dns. mat mxd. sh. ch. tr and. calc	
160-165		5		Ss. rd mxd. M. C. Sang. tr fn. mat mxd sh. calc	
165-175		10		Sh. rd mxd. Si. VG. mat and. calc	
175-185		10		Ss. rd mxd. M. C. Sang. Partg. Fe. P. trVC. fn. mch sh. sts. calc	
185-195		10		Ss. Mxd. C. VC. Srnd. Partg. trM. tr sh. st	
195-205		10		Ss. Mxd. C. VC. Srnd. Partg. trM. fn. tr gn sh. st	
205-220		15		Ss. Mxd. fn. C. Sang. Partg. trM. Vfn. tr sh. ch. Fe-cem. st	
P R A I R I E D U C H I E N		220-225	5		Ss. Mxd. fn. Vfn. Sang. trC. M. tr Fe-cem. sh. st
	225-230	5		Ss. lt rd. mot dk rd. fn. Vfn. Sang. trC. M. tr Fe-cem. sh. st	
	230-235	5		Ss. Mxd. Vfn. Sang. Partg. trC. M. fn. tr Fe-cem. sh. sts	
	235-240	5		Ss. vl rd mxd. Vfn. Sang. trC. M. fn. tr Fe-cem. sh. sts	
	240-245	5		Ss. vl bn mxd. Vfn. Sang. tr fn. M. mch sts. glauc	
	245-255	10		Ss. lt Myl. M. fn. Ang. Partg. trVfn. tr calc. glauc. Fe-cem	
	255-265	10		Ss. lt Myl. M. fn. Ang. Partg. Calc. P. trVfn. C. tr calc. glauc. Fe-cem	
	265-270	5		No Sample	
	270-275	5		Ss. lt pnk. M. fn. Ang. Partg. trVfn. mch calc. tr Fe-cem	
	275-285	10		No Sample	
	285-295	10		Ss. Vlt vl. M. C. Ang. Partg. Calc. P. tr fn. tr Fe-cem	
	295-300	5		Ss. Vlt vl. M. fn. Ang. Partg. Calc. P. trVfn. tr Fe-cem	
	300-305	5		No Sample	
	305-310	5		Ss. Mdk rd. Vfn. fn. Ang. Calc. P. mch calc. tr Fe-cem	
	310-320	10		No Sample	
85	320-325	5		Ss. dk rd purp bn. Vfn. fn. trM. mat calc. sts	

Formations: Drift, St. Peter, Prairie du Chien, Trempealeau, Franconia

Well tested for 24 hrs. at 230 gpm with 26 feet of drawdown.  
 Specific capacity = 8.8 gpm per ft. of drawdown.

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Wisconsin Power & Light Well #8, Ripon, Wis.

Pacific Street, Sec. 21, T16N, R14E  
 Driller, I.E. Brown - Fall, 1964

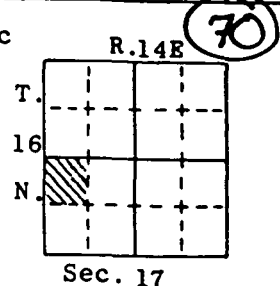
Sample Nos. 251501-251565, Examined by M.E. Ostrom - 2-8-65

Interval	Depth (ft)	Stratigraphic Unit	Description	Notes
0-45	45	Drift	Snd&st. Myl bn. P. Dolc. mch dol	
45-6	15	Drift	Dol. Myl bn. fn. M. dns	
6-15	9	Drift	Ss. stnd yl rd. M. C. Srnd. Psrtg. tr fn. mch caved dol	
15-20	5	Drift	Ss. Vlt yl. M. C. rnd. Gsrtg. stnd Fe-F. tr lim	
20-35	15	Drift	Ss. Myl, M, C, rnd, Gsrtg, stnd Fe-F, tr lim	
35-80	45	St. Peter	Ss, lt yl, M, C, rnd, Gsrtg, Si: P, tr Fe-cem	16" O.D., 3/8" wall 45' water level
80-85	5	St. Peter	Ss. lt yl. M. C. rnd. Psrtg. Si: P. tr fn. Vfn	
85-95	10	St. Peter	Ss. lt yl. M. C. rnd. Psrtg. Si: P. tr fn. Vfn	
95-100	5	St. Peter	Ss. lt yl. M. fn. rnd. Psrtg. tr Vfn. C	
100-105	5	St. Peter	Ss. lt yl. M. fn. rnd. Psrtg. Si: P. tr C. tr stnd pyr.	
105-110	5	St. Peter	Ss. Vlt or pnk. M. fn. rnd. Psrtg. Si: P. tr C	
110-115	5	St. Peter	Ss. Vlt yl. M. fn. rnd. Psrtg. Si: P. tr C. tr sh	
115-120	5	St. Peter	Sh&Sts. Vmxd. Si: G. tr VC. cem. rd Ss	
120-125	5	St. Peter	Ss. Vlt-lt rd. M. fn. Srnd. Psrtg. Si: F. mch mxd. sh	
125-130	5	St. Peter	Dol. lt gry bn. fn. M. dns. tr C. tr mxd sh	
130-135	5	St. Peter	Dol. lt gry bn. fn. M. dns. tr C. tr lt rd. tr mxd sh	15" hole
135-140	5	St. Peter	Dol. lt gry bn. fn. M. dns. tr C. tr lt rd. mxd Ss. tr mxd sh	
140-145	5	St. Peter	Dol. lt gry bn. fn. M. dns. tr C. mch mxd sh	
145-150	5	St. Peter	Dol. lt gry bn. fn. M. dns. tr C. mch mxd. sh. tr ools	
150-155	5	St. Peter	Ss. lt gry bn. M. C. Srnd. Psrtg. tr fn. mch dol. tr ools	
155-160	5	St. Peter	Cht. mostly wh&gry. ltl bn. tr dol. Ss. sh. calc	
160-175	15	St. Peter	Cht. stnd rd. tr calc	
175-180	5	St. Peter	Cht. stnd rd. tr calc. sh	
180-185	5	St. Peter	Ss. mxd rd. fn. C. Sang. Psrtg. Si: P. tr M. tr ools. sh. ch	
185-190	5	St. Peter	Ss. lt rd. M. C. Srnd. Psrtg. Si: P. tr fn. VC	
190-215	25	Trempealeau	Ss. Vlt rd. M, C, Srnd, Psrtg, Si: P, tr fn, VC	
215-225	10	Trempealeau	Ss. Vlt rd. fn. C. Srnd, Psrtg, Si: P, tr M, VC, tr sh	
225-232	7	Trempealeau	No Sample	
232-240	8	Trempealeau	Ss. Mrd, fn, Vfn, Srnd, Psrtg, VG: Si, tr M	
240-245	5	Trempealeau	Ss. Myl bn. mxd. fn. Vfn. Srnd. Psrtg. VG: Si. tr M. mch glauc	
245-250	5	Trempealeau	Ss. Vlt yl rd. M. fn. Srnd. Psrtg. mch calc. glauc. dol	
250-255	5	Trempealeau	Ss. Vlt yl rd. M. fn. Srnd. Psrtg. tr Vfn. tr calc. dol	
255-260	5	Trempealeau	Ss. Vlt yl. M. Srnd. Gsrtg. tr glauc	
260-265	5	Trempealeau	Ss. lt yl. M. C. Srnd. Psrtg. Calc: F. tr fn. Vfn. VC	
265-270	5	Trempealeau	Ss. lt yl. M. C. Srnd. Calc: F. tr fn. tr glauc	
270-275	5	Trempealeau	Ss. lt yl. C. VC. Srnd. Psrtg. Calc: F. tr M. fn	
275-285	10	Trempealeau	Ss. Vlt yl rd. M, fn, Srnd, Psrtg, Calc: F, tr Vfn, C	
285-290	5	Trempealeau	Ss. Vlt yl rd. M. C. Srnd. Psrtg. Calc. F. tr Vfn. fn	
290-295	5	Trempealeau	Ss. lt yl. M. fn. Srnd. Psrtg. Calc: F. tr Vfn	
295-302	7	Trempealeau	Ss. lt yl. M. fn. Srnd. Psrtg. Calc: F. tr Vfn. C. tr foss	
302-308	6	Trempealeau	"Washed out" No Sample	
308-310	2	Trempealeau	Ss. lt rd. M. fn. Srnd. Psrtg. Calc: G. tr C. tr foss	
310-312	2	Trempealeau	Ss. lt yl. rd. M. fn. Srnd. Psrtg. Calc: F. tr C. tr foss	312'

Formations: Drift, Platteville, St. Peter, Prairie du Chien, Trempealeau, Franconia,  
 Well tested for 3 hours at 790 gpm with 465 feet of drawdown.  
 Specific capacity = 16.97 gpm per foot of drawdown.  
 Driller reports a total depth of 300' ±

#8

Well name **Wisconsin Power & Light Co. Test Hole #9-A** County: **Fond du Lac**  
 Ripon Township Completed... 1/26/71  
 Owner.... **Wisconsin Power & Light Co.** Field check.  
 Address.. **Ripon, Wisconsin** Altitude.... 840' ETM  
 Driller.. **Zoellner Well Drilling Co.** Use..... Test  
 Engineer. Static w.l.. 19'  
 Spec. cap... 4.5



Quad. Ripon 7 1/2'

Drill Hole						Casing & Liner Pipe or Curbing							
Dia.	from	to	Dia.	from	to	Dia.	Wgt. & Kind	from	to	Dia.	Wgt. & Kind	from	to
8 3/4"	0'	133'	6"	133'	343'	6"	New Black, Steel 18.97 lbs. per ft. P.E. Rotary	+18"	133'				
Grout: Kind												from	to
Neat Cement												0'	120'

Samples from 0' to 343' Rec'd: 3/29/71 Studied by: M. Roshardt Issued: 1/5/72

Formations: Drift, Jordan Formation, Sandstone (Tunnel City Group and older formations)

Remarks: Well tested 72 hours at 288 gpm with 64 feet of drawdown.  
 Formations revised - 12/7/82 - RMP.

LOG OF WELL:

	Depths	Graphic Section	Rock Type	Color	Grain Size		Miscellaneous Characteristics
					Mode	Range	
D R I F T	0-5 S		Silt	Brown	--	--	Clayey, Trace sand.
	5-10		Gravel	Mixed	S pnb	Gran/S pnb	Little sand, calcareous clay.
	10-15 S		"	"	"	"	--
	15-20		"	"	Gran	"	--
	20-25		"	"	S pnb	"	--
	25-30		"	"	Gran	"	--
	30-35		"	"	"	"	--
	35-40		"	"	S pnb	"	Little calcareous clay, sand.
	40-45		"	"	"	"	--
	45-50 S		"	"	"	"	--
	50-55 S		Clay	Pnk brown	--	--	Calcareous, Little sand, Trace gravel.
	55-60		"	"	--	--	Same
	60-65 S		Gravel	Mixed	Gran	Gran/S pnb	Trace calcareous clay.
	65-70 S		"	"	S pnb	"	Same
	70-75 S		"	"	"	"	"
	75-80 S		"	"	"	"	"
	80-85 S		"	"	"	--	--
85-90 S		"	"	"	--	--	
90-95 S		"	"	"	--	--	
95-100S		"	"	"	--	--	
105	100-105S		Sand	Orange gry	M & C	Fn/C	--
Jor	105-110S		Sandstone	Pink gray	C	Fn/VC	Trace dolomite cement, M glauconite.
	110-115		"	"	"	"	Same
	115-120		"	"	"	"	"
S A N D S T O N E	120-120S		Shale	Red brown	--	--	Little sand, hematitic-glauconitic dolomite.
	120-120S		Sandstone	Pale gray	M	Fn/C	Trace M/C glauconite.
	120-125		"	"	"	"	Little M/C glauconite.
	125-135		"	"	M & C	"	Same
	135-145		"	"	M	"	"
	145-148		"	"	"	"	"
	148-150S		"	Yellow gry	"	"	Same plus trace white chert.
	150-151S		"	Pl pur gry	"	"	Little M/C glauconite. Trace hematite coatings.
151-160S		"	Orange bn	Fn & M	"	Little hematitic dolomite cement. Trace green shale.	

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Depths	Graphic Section	Rock Type	Color	Grain Size		Miscellaneous Characteristics
				Mode	Range	
160-170S		Sandstone	Pl yl gry	M	Fn/C	Trace dolomite cement.
170-173		"	"	"	"	Same
173-175		"	Yl or gry	C	"	Trace dolomite cement, orange chert, green micaceous sh.
175-180		"	"	"	"	Same but no shale.
180-185S		"	"	"	"	Same plus few feldspar grains.
185-185		"	"	"	Fn/VC	Same but no feldspar.
185-200		"	"	M & VC	"	Same plus trace green shale.
200-205S		"	"	M & C	"	Same but no shale.
205-208S		"	Red brown	"	Fn/C	Much dolomite cement, M/C glauconite.
208-210S		"	Yl gn gry	C	Fn/VC	Much M/C glauconite, Trace dolomite cement.
210-215S		"	Pl yl gry	C & VC	M/VC	--
215-220		"	"	C	"	Little M/C glauconite, orange & cream cherts.
220-225		"	"	"	"	Trace glauconite, chert.
225-230S		"	"	M & C	Fn/VC	Same
230-235S		"	"	"	Fn/C	Trace chert.
235-240S		"	"	"	"	Trace chert, glauconite.
240-248S		"	"	C	"	Trace chert.
248-250S		"	Purple bn	M	"	Much orange chert, Little red shale.
250-255S		"	Orange tan	"	"	Much orange chert, Trace red shale, muscovite.
255-265S		"	"	"	"	Much orange chert.
265-270S		"	"	M & C	"	Same
270-275S		"	Yellow gry	M	"	Little orange & white cherts.
275-280S		"	"	"	Fn/VC	Same
280-283S		"	Pink gray	"	"	Trace orange & white cherts, hematite coatings.
283-285S		"	Yellow gry	"	"	Little orange & white cherts.
285-290S		"	"	"	Fn/C	Same
290-295S		"	Pink gray	C	M/C	--
295-305S		"	Pl yl gry	M & C	Fn/C	Trace orange & white cherts.
305-310S		"	Pink gray	"	"	Same
310-315S		"	"	"	"	Trace white chert.
315-316S		"	"	M	"	Same
316-317S		"	Yellow gry	"	"	Trace white chert, purple-red mottled micaceous shale.
317-325S		"	"	M & C	"	Same
325-330S		"	"	C	Fn/VC	"
330-335S		"	"	M & C	Fn/C	"
335-340S		"	Red brown	M	"	Same plus much hematite coatings.
340-345S		"	Purple bn	"	"	Much siliceous mottled red-white shale, Tr white chert.

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END OF LOG

\*Unable to define sandstone formation on basis of samples without study of the area. The sandstone contains glauconite characteristic of the Tunnel City Group.

# APPENDIX E

WISCONSIN GEOLOGICAL SURVEY, Science Hall, Madison, Wisconsin

Log No. 61-28

GREEN LAKE VILLAGE WELL NO. 1, GREEN LAKE, WISCONSIN  
 NE $\frac{1}{4}$ , SW $\frac{1}{4}$ , NE $\frac{1}{4}$ , Sec. 21, T-16N, R-13E, (City Park), Green Lake, Wis. Util. Supt.  
 Layne-Northwest Co., Driller, February 1959  
 Sample Nos. 210146-210225 - Examined by H. E. Ostrom

Clarence Hoffman

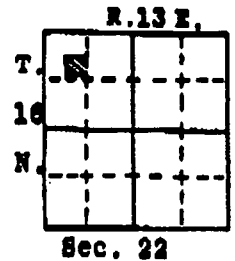
T R E M P	0-10	10	Clay & silt, moderately brown, rare white chert pebbles & granules, sandy	8' water 18" hole 18" pipe	
	10-15	5	Clay & silt, light brown, little in wa chert		
	15-25	10	Clay & silt, pale brown, dolomitic		
	25-35	10	Sand, dark yellowish brown, silty & gravelly, ch dolomite		
	35-40	5	Gravel, dk vl bn, fn gvl to 11 end, med P ortg		
	40-50	10	Sandstone, pale reddish brown, M-C, rnd, G ortg, ch rd glauconitic siltstone		39'
	50-55	5	Ss, pl rd bn, C-fn, rnd, ch rd glauconitic sts		12" pipe 17" hole
	55-65	10	Sandstone, pl rd bn, C-fn, rnd, G ortg, 80% rd glauconitic siltstone		
	65-70	5	Ss, bn, C-fn, rnd, G ortg, 80% glauc sts, lcl vl sh		70' 72'
	70-85	15	Siltstone, rd gry, glauconitic, & sandstone, bn, C-fn, rnd, G ortg, some greenish shale		
A S	85-100	15	Sandstone, moderate yellowish brown, coarse to very fine grained, well rounded, poorly sorted, P cc dol, glauconitic, silty	12" hole	
	100-110	10	Sandstone, mod vl bn, C-V fn, Srd, P ortg, P cem dol, glauconitic, silty		
	110-135	25	Sandstone, mod vl bn, C-V fn, Srd, P ortg, scattered aggregates, dolomitic, silty		
F R A N K I A	135-145	10	Sandstone, mod bn, C-V fn, rnd, P ortg, ch rd bn glauconitic aggregates of fine sand, silty		
	145-150	5	Ss, mod bn, C-V fn, G ortg, rnd, ch glauconite		
	150-155	5	Ss, mod bn, C-V fn, rnd, P ortg, ch bn glauconite		
	155-165	10	Sandstone, mod bn, C-V fn, rnd, P ortg, G cem dol, cherty		
	165-175	10	Sandstone, pl vl bn, C-V fn, P ortg, rnd, cherty		
	175-190	15	Sandstone, pl vl bn, C-V fn, P ortg, rnd, cherty, with rare reddish aggregates of very fine sand		
	190-205	15	Sandstone, pl vl bn, C-V fn, P ortg, Sang, cherty, with rare reddish sand aggregates of V fn qtz		
	205-220	15	Sandstone, pl vl bn, C-V fn, P ortg, Srd, some silica cemented sand aggregates		

Well name Green Lake City Well #2

County: Green Lake

Owner.... City of Green Lake  
 Address.. 534 Mill St.  
 Green Lake, WI 54941  
 Driller.. Milaeger Well & Pump Co.  
 Engineer.

Completed... 2/5/76  
 Field check,  
 Altitude.... 635' ETM  
 Use..... Municipal  
 Static w.l.. 39'  
 Spec. cap... 10 GPM/ft



Quad. Green Lake 7 1/2'

Drill Hole						Casing & Liner Pipe or Curbing							
Dia.	from	to	Dia.	from	to	Dia.	Wgt. & Kind	from	to	Dia.	Wgt. & Kind	from	to
18"	0	25'	12"	108'	396'	18"	steel-3/8"-70#/ft.	0	25'				
17"	25'	108'				12"	steel-3/8"-50#/ft.	+18"	108'				
						ASTM-53 Grade B							

Drilling method: Cable Tool  
 Samples from 0 to 400' Rec'd: 5/25/79

Grout	from	to
Neat Cement	0	108'

Studied by: Kathleen Massie

Issued: 12/23/82

Formations: Drift, Prairie du Chien Group, Jordan Formation, St. Lawrence Formation (Lodi Siltstone), Tunnel City Group, Elk Mound Group.

Remarks: Well driller reports total well depth of 396'.  
 Well tested for 24 hours at 400 GPM with 39 feet of drawdown.  
 Most of the sandstone shows a secondary quartz growth that give the grains an irregular shape. This was not included in determining grain rounding.

LOG OF WELL:

Depth	Graphic Section	Rock Type	Color	Grain Size		Miscellaneous Characteristics
				Mode	Range	
0-5		Gravel	Lt vl bn	Gran	Gran/L pnb	Dol,ool dol & cht, fcs dol & cht,cht,grnt,trap, Mch and, Ltl st.
5-10		"	"	S pnb	Gran/M pnb	Same.
10-15		"	"	"	"	"
15-20		"	"	Gran	"	Same plus pink silica cemented sandstone.
20-25		Dolomite	"	M	Fn/M	Tr Vfn/Fn fltg and occurring in layers of high concentrn,Vfn-
25-30		"	Pl brown	"	"	Same plus tr wh cht (some ool). glauc,pyroly,cvd end & qvl.
30-35		"	"	"	"	Same.
35-40		"	Lt grey	"	"	Trace white to clear quartz crystals associated with pyrite.
40-45		"	"	"	"	Tr wh qtz xls,Vfn-glauc,Vfn-fltg and. glauc(in all types).
45-50		Shale	Dusky red	---	---	Hemic, V micaceous, Mch wh to pnk dol, st. Ltl dolc sta, Tr Vfn-
50-52		Dolomite	"	Fn	Fn/M	Much micaceous hemic shale. Trace dolomite,siltstone,Vfn-glauc.
52-55		"	Brown	"	"	Much micaceous hemic sh, silt, Ltl dolc sta, Tr Vfn-glauc.
55-65		Sandstone	Pnk white	M	Vfn/VC	See end of log. hem,cvd glaucic sh,well rnd qtz crans.
65-70		"	"	"	"	Same, Mch @ sil cem, Tr or atng,drey qtz,cht,cvd
70-75		"	"	Fn&C	"	Srnd & rnd(Grns are irrclr which might show secondary qtz growth).
75-80		"	"	"	"	Same but cem assoc w/Fn end and nch in frags(45% of samp) introdc
80-85		"	Lt rd bn	Fn/M	"	See end of log. during drilling?
85-90		"	"	Fn&C	"	Sang & rnd, Mch v G sil cem(assoc w/Vfn/Fn). Tr cht,Vfn-glauc.
90-95		"	"	Fn	"	See end of log. cvd hemic sh,wh cht, in frag.
95-100		Siltstone	Rd bn&rd vl	---	---	Calous, Rd bn is v hemic & micaceous, Mch and, Tr Vfn-glauc,wh
100-105		"	"	---	---	Same but ltl limonite(rd vl siltstone), to pnk cht,lim.
105-110		Sandstone	Lt rd bn	Fn	Vfn/C	Srnd, Mch calous cem, Ltl st,hem, Tr wh to pnk cht,
110-115						NO SAMPLE, Driller reports same as following intervals. w/rd bn).
115-120		Sandstone	Rd bn&rd vl	Fn	Vfn/C	Srnd, Mch v G dol cem(~45% of sample dol),Fn-glauc,hem(assoc
120-125		"	Yellow	M	Vfn/VC	Sang, Mch v G dol cem(~25% of sample),hem, Ltl Fn-glauc, Tr silt
125-130		"	Brown	M/C	"	Srnd, Mch v G(M-xls)dol cem, Ltl hem,C/Vc-glauc, Tr silt.
130-135		"	"	"	"	Srnd, Mch v G(M-xls)dol cem, Tr M/C glauc,hematite,silt.
135-140		"	Lt rd vl	M	"	Rnd, Mch v G(M-xls)dol cem, Tr lin cement,Fn-glauc,mfz tool.
140-145		"	"	M/C	"	Same but little dolomite cement.
145-150		"	"	"	"	Same but much dolomite cement.
150-155		"	"	"	"	Same.
155-160		"	"	"	"	Rounded, Trace good dolomite cement, limonite, silt.

UNIVERSITY OF WISCONSIN GEOLOGICAL & NATURAL HISTORY SURVEY  
1815 University Avenue, Madison, Wisconsin 53706

Log No. J9-GL-52

Well name: Green Lake City Well #2

GREEN LAKE CITY

Depth	Graphic Section	Rock Type	Color	Grain Size		Miscellaneous Characteristics
				Mode	Range	
160-165		Sandstone	Lt rd yl	M/C	Vfn/C	Rounded. Trace good dolomite cement, limonite, silt.
165-170		"	"	"	"	Same.
170-175		"	"	"	"	"
175-180		"	Pl yellow	Fn/M	Vfn/C	Srnd. Tr cvd dolomite cement, mafic incl. Ltl fine silt.
180-185		"	"	"	"	Same.
185-190		"	"	"	"	"
190-195		"	lt brown	C	Vfn/C	Rnd. Ltl G dol cem (assoc w/Fn/M and). Tr cvd sta. dol. hem. ig frags.
195-200		"	"	M	"	Rnd to srnd. Ltl G dol & hem cem. Tr lim cem. M-zircon, mfc incl.
200-205		"	"	"	"	Same plus trace caved igneous fragments.
205-210		Siltstone	Red brown			Moh rd bn dol. hemio sh, end (some coarng as layers of ss). Ltl pl
210-215		Sandstone	"	C/V/C	Vfn/C	See end of log. on sh. Tr Fn-glau. fca frags.
215-220		"	Pink	C	"	Well rounded. Trace siltstone as above. mafic inclusions.
220-225		"	"	"	"	Well rnd. Trace mafic inclusions, cvd sta. wh siliceous shale.
225-230		"	Pnk white	"	"	Well rnd. Tr lim cem. mfc incl. wh sil sh. silt. cvd sta.
230-235		"	"	C/V/C	"	Same.
235-240		"	"	"	"	"
240-245		"	White	C	"	Well rnd. Tr mfc incl. wh sil sh. st. cvd sta. M-zircon.
245-250		"	"	"	"	Rnd. Tr F sil cem, mfc & pyr incl. cvd sta. wh sil sh. Moh fine st.
250-255		"	"	"	"	Same.
255-260		"	"	"	"	Rnd. Tr G sil cem, mfc & pyr incl. pyr. wh sil sh. Moh fine silt.
260-265		"	"	"	"	Same.
265-270		"	"	M/C	"	Same plus trace or sting on cement, plus tr pl on shale.
270-275		"	"	"	"	Rnd. Trace G sil cement, mafic inclusions, fine silt.
275-280		"	"	"	"	Rnd. Tr F sil cem. mfc incl. cvd in trap. Little fine silt.
280-285		"	"	"	"	Same.
285-290		"	"	M	"	"
290-295		"	"	Fn/M	"	Srnd. Tr F sil cem. mfc incl. wh sil shale. fine silt.
295-300		"	"	"	"	Srnd. Ltl F sil cem. fine silt. Tr mfc incl. wh sil shale lt ary
300-305		"	"	"	"	Same but trace cement & silt. shale.
305-310		"	"	M	"	Same.
310-315		"	"	"	"	Srnd. Tr F to G sil cem, mfc incl. wh sil sh. lt ary sh. Ltl fine
315-320		"	"	M/C	"	Same.
320-325		"	"	M	"	"
325-330		"	"	"	"	"
330-335		"	"	M/C	"	Srnd. Tr fair silica cement, mafic inclusions. Moh fine silt.
335-340		"	"	"	"	Same plus trace white siliceous shale.
340-345		"	"	"	"	Same.
345-350		"	"	"	"	Srnd. Tr F sil cem. mfc incl. wh sil sh. Ltl fine silt.
350-355		"	"	"	"	Same.
355-360		"	"	"	"	"
360-365		"	"	"	"	Same but trace fine silt.
365-370		"	"	"	"	Srnd. Tr F sil cem. mafic incl. wh sil shale. Little fine st.
370-375		"	"	"	"	Same plus trace pyrite.
375-380		"	"	"	"	Same.
380-385		"	"	"	"	Same but trace fine silt.
385-390		"	"	"	"	Srnd. Tr F sil cem. mfc incl. M-zircon. wh sil sh. Ltl fine st.
390-395		"	"	"	"	Same.
395-400		"	"	"	"	"

END OF LOG

55-65		Sandstone	Pnk white	M	Vfn/C	Subrounded. (Grains are irregular which might indicate extensive secondary quartz growth.) Much good silica cement. Trace orange staining, orange chert, clear drusy quartz, caved oolitic chert & brown shale, Fn-zircon sand, mafic inclusions, pale green glauconitic shale.
80-85		Sandstone	Lt rd bn	Fn/M	Vfn/C	Subrounded. Much very good silica cement. Little drusy quartz/chert, igneous fragments (from drilling?), light brown shale. Trace caved shale/siltstone, silt, mafic inclusions, white siliceous shale.





File Maintenance Code A - Add (New Facility)  
B - Change (Existing Facility)  
C - Delete from Inventory

B. GIBSON  
Form completed and approved by  
100285  
MAY 8 1985  
Date

Directions on reverse side of form.

N-NO

Volatile Organic Sampling Program

Pesticide Program

### INVENTORY INFORMATION Mandatory Information (See Instructions)

A.P.A.M.S. ELEMENTARY SCHOOL  
Present name of establishment or facility (public system)

420070640  
Facility I.D.  
Or check here if new facility

W. R. CHARLES JR.  
Name of owner or manager (Last name first)

4147486208  
Area code Telephone number

METOMEN ST  
Address (street or route)

Ripon  
Township

RIPON  
City

WI  
State

54971  
Zip code

FOL  
County

210  
Co. code

High cap. permanent well no.

Name of occupant if different than owner (Last name first)

Occupant's address (street or route)

City

State

Zip code

Water system type (check one)

- Non-potable wells
- M Monitoring
- I Irrigation
- X Other

- Potable wells
- M Community - municipal
- C Community - other than municipal
- N Non-community
- P Private

Well No.

Government lot number

Well location: 16, 14, 216, 110, 148

### 2. WELL DATA WELL CONST. REPT

Date well constructed: 8/21/66  
Constructed by: R.J. SAWYER & SONS, INC.  
Casing depth: 119.5 ft.  
Depth to water: 112 ft.  
Depth to bedrock: 3 ft.  
Casing diameter: 6 inches  
Distance casing above to below grade: 44 inches  
Total well depth: 132.5 ft.  
Water bearing formation:  S - Sandstone,  L - Limestone,  G - Granite,  U - Unconsolidated

### 3. PREDOMINATE LAND USE Mandatory Information (See Instructions)

- A - Agricultural
- I - Industrial
- R - Residential
- F - Forestry
- U - Undeveloped
- C - Commercial

### 4. ADDITIONAL COMMENTS (Directions To Site, Possible Contaminant Sources. See Back)

RIPON SCHOOL DISTRICT

Well Log  
Adams School

NW, NW, Sec 26, T16N, R14E

Sept 1, 1965 report date (well completed 8/31/65)

RF Schaefer - driller  
RJ

- 0-5' fill
  - 3-33' broken limestone
  - 33-40 soft limestone
  - 40-55 hard limestone
  - 55-72 lime, thin layers of shale
  - 72-122 lime
  - 122-124 blue shale
  - 124-133 lime
  - 133-144 Green shale
  - 144-179 lime
  - 170-188 sandstone
  - 188-238 lime
  - 238-280 Green shale
  - 280-282 Brown shale
  - 282-~~285~~<sup>275</sup> lime
  - 275-277 shale
  - 277-325 white sandstone
- EOO

Adams School (cont)

barbs - 10' to 195

" " - 6' 195-325

cement grout 0-195

6" steel casing 0-195

well yield 40 lpm at 20 gpm

static water level 112'

pumping water level 151'

# Wayside Elem Sch.

(6)

May 15, 1958

R. J. Schafer + Sons

(located in the T16N. R14E, S-unlocatables)

10" 0-90'

6" 90-240

6" casing 0-155'

clay slurry 0-90'

3 hrs @ 28 gpm

S - 76'

P - 87'

clay + stones 0-18'

hardpan + clay 18-56

LS 56-60

SS 60-220

SS + shale 220-230'

SS 230-240'

# Wayside Elementary School

776 N. R14E

Well completed May 15, 1958

Driller - R. J. Steyer and Sons

Drill hole 10' 0-90'  
6" 90-240'

Casing 6" 0-155'

Grout - clay slurry 0-90'

well yield 3 hours at 28 gpm  
static water level 76'  
pumping water level 87'

## Well Log

- 0-18' clay and stones
- 18-56' hardpan and clay
- 56-60' limestone
- 60-220' sandstone
- 220-230' sandstone and shale
- 230-240' sandstone

GREEN GIANT COMPANY WELL, EIPON, WISCONSIN

N<sup>1</sup>/<sub>2</sub>, S<sup>1</sup>/<sub>2</sub>, Sec. 22, T 16N, R 14W

Bergerson & Caswell Well Driller, Driller, May 1959

Sample Nos. 208691-208798 - Examined by J. E. Steuerwald

P L A T T E V I L L	12	0 - 12	12		Fill, bn. dolo., of silt, lit. s & cl. & sm. stones	20" pipe 21'
		12 - 27	15		Dolomite, light brown-gray & med. gray, weathered?	
		27 - 62	35		Dolomite, medium gray, little dark gray mottling 47-62	
		62 - 72	10		Dolomite, medium brown-gray	
S T P	75	72 - 87	15		Sandstone, vy fine - med. gr., some cr. gr. ss 67-67, lt. med. gy, vy dolo., pyritic, lit. med. gy dol.	19 1/2" hole 100' water 12" pipe
		87 - 107	20		Sandstone, fine & med. gr., lt gy, slightly dolo., pyritic	
P R A I R I E D U C H I E N	73	155 - 160	5		Shale, or-gy, vy dolo., much ss, some dol. & cor. am. na.	cement grout C-260
		160 - 220	60		Dolomite, light medium tan-gray, fine grained, dense, large cuttings	
T R E M P C A L E A U	85	220 - 245	25		Dolomite, light medium gray	260'
		245 - 255	10		Sandstone, fine gr., lit. vy cr. gr., buff, vy dolo.	
F R A N C O N I A		255 - 285	30		Sandstone, vy fine & fine gr., lt gy, dolomitic	12' hole
	60	285 - 295	10		Siltstone, buff, vy dolo., sandy, glauc., lit. red dol.	
		295 - 300	5		Dolomite, red, sandy, silty, glauconitic	
		300 - 305	5		Siltstone, buff, some pale red, dolo., sandy, glauc.	
		305 - 315	10		Sandstone, fine & vy fine gr., buff, dolo., glauc.	
		315 - 320	5		Sandstone, med. grained, orange-gray, dolomitic	
		320 - 345	25		Sandstone, medium grained, light cream-gray, some coarse grained 335-340	
		345 - 370	25		Sandstone, fine grained, light cream gray, dolomitic	
		370 - 380	10		Sandstone, fine & vy fine gr., lt cr. gy, vy dolo.	
		380 - 395	15		Dolomite, red, sandy, glauconitic	
D R E S B A C H G R O U P	100	395 - 400	5		Sandstone, med. - some cr. gr., bk, vy dolo., glauc.	12' hole
		400 - 405	5		Sandstone, med. - coarse, buff, dolomitic, glauconitic	
		405 - 420	15		Sandstone, medium & coarse grained, cream-buff	
		420 - 425	5		Sandstone, fine & medium grained, pale red	
		425 - 425	10		Sandstone, fine & medium grained, pink-gray	
		435 - 460	25		Sandstone, very fine to med. grained, pale red-gy	
		460 - 465	5		Sandstone, fine grained, light gray	
		465 - 475	10		Sandstone, fine & medium grained, pale red	
		475 - 480	5		Sandstone, fine to vy fine gr., light pink-gray	
		480 - 540	60		Sandstone, very fine to little medium grained, light pink-gray, no sample 500-505	

Formations: Drift, Platteville, St. Peter, Prairie du Chien, Trempealeau, Franconia, Dresbach Group Undivided

WELL #3 PERM WELL #46821

Tested for 133 hours @ 750 to 900 gpm, specific capacity at end of test = 10.3 gpm/ft. of drawdown.

This is to certify that the geological formations shown on this log are based on samples collected at the time of drilling and that the construction shown is correct in all respects.

*Grand Stapel*  
Signature

05/12 1959

**WELL CONSTRUCTOR'S REPORT TO WISCONSIN STATE BOARD OF HEALTH**  
See Instructions on Reverse Side

Well 6

1. County Fond du Lac Town  Ripon  
 Village   
 City  check one and give name

2. Location Sec. 22 Town 16 N Range 14 E  
Name of street and number of premise or Section, Town and Range numbers

3. Owner  or Agent  Green Giant Co. - Beaver Dam Wis  
Name of individual, partnership or firm

4. Mail Address same  
Complete address required

5. From well to nearest: Building \_\_\_\_\_ ft; sewer \_\_\_\_\_ ft; drain \_\_\_\_\_ ft; septic tank \_\_\_\_\_ ft;  
 dry well or filter bed \_\_\_\_\_ ft; abandoned well \_\_\_\_\_ ft. this info obtainable from report of original construction

6. Well is intended to supply water for: Cannery

**7. DRILLHOLE:**

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
8"	495	580			
<i>(Deepening of original well)</i>					

**8. CASING AND LINER PIPE OR CURBING:**

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
8"	Schedule #40-Steel Surt.		175'
<i>(Liner placed in original well)</i>			

**9. GROUT:**

Kind	From (ft.)	To (ft.)
Cement	Surt	250'

**11. MISCELLANEOUS DATA:**

Yield test: 24 Hrs. at 350 GPM.  
 Depth from surface to water-level: 98 ft.  
 Water-level when pumping: 128 ft.  
 Water sample was sent to the state laboratory at:  
? on 19  
Sent in by owner

**10. FORMATIONS:**

Kind	From (ft.)	To (ft.)
Red Shaly Sandrock	495	505
Gray shaly Sandrock	505	580

**RECEIVED**

SEP 3 1958

ENVIRONMENTAL  
SANITATION

*Repair*  
 Construction of the well was completed on:  
8-18 1958

The well is terminated 18 inches  
 above, below  the permanent ground surface.

Was the well disinfected upon completion?  
 Yes  No

Was the well sealed watertight upon completion?  
 Yes  No

Signature Bergerson-Goswell Inc  
7-23 Caswell  
 Registered Well Driller

13170 Mayfield Blvd Mpls 26 Minn  
 Complete Mail Address

Rec'd \_\_\_\_\_ No \_\_\_\_\_  
 Ans'd \_\_\_\_\_  
 Interpretation \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

10 ml    10 ml    10 ml    10 ml    10 ml

Gas—24 hrs. \_\_\_\_\_  
 48 hrs. \_\_\_\_\_  
 Confirm \_\_\_\_\_  
 B. Coli \_\_\_\_\_  
 Examiner \_\_\_\_\_

Please do not write in space below



GREEN GIANT  
CENTRAL WISCONSIN CANNERIES WELL, RIPON, WIS.

NW 1/4 sec. 22, T. 16 N., R. 14 E. Elevation about 930  
I. E. Brown, Driller, 1946

Samples examined by F. T. Thwaites, Nos. 134843-134935  
(202192-202208)

D	25	0-25	25		Drift, no samples ( log: extends to 20)	15" pipe - 21
	P L A	40	25-40	15	Dolomite, light gray, light blue-gray	
S T		50	65-70	5	Sandstone, fine to medium, light gray	80' water (original)
	70-80		10	Sandstone, medium to fine, light gray		
	80-110		30	Sandstone, fine to medium, light gray		
L O W E R	M	105	110-115	5	Shale, light red	98' water after deepening
			115-135	20	Dolomite, light gray	
			135-145	10	Sandstone, fine to medium, lt. gy. dol; sh, gr	
			145-185	40	Dolomite, light gray; chert, white	
			185-210	25	Dolomite, gray and pink	
T R E M P	60	210-220	10	Dolomite, gray	175' hole cemented to 250' and drilled out to 8" hole	
		220-240	20	Sandstone, medium to fine, pink, gray, dol.		
		240-260	20	Siltstone, sandy, light gray, dolomitic		
F R A N C O N I A	130	260-280	20	Siltstone, light gray, dolomitic	250'  water level was 26' in Dec. 1953, and from 87 to 130' in May - June, 1958 before deepening	
		280-305	25	Sandstone, fine to medium, pink, red, dolomitic, glauconitic		
		305-310	5	Sandstone, very fine, lt. gray, very dol.		
		310-315	5	Siltstone, sandy, gray, dolomitic		
		315-320	5	Sandstone, fine to medium, lt. gray, dolomitic		
		320-335	15	Sandstone, fine, lt. gray, pink, dolomitic		
		335-340	5	Sandstone, medium to fine, light gray		
		340-350	10	Sandstone, fine to medium, light gray, dol.		
		350-370	20	Sandstone, medium to fine, light gray, dol.		
		370-375	5	Sandstone, fine to medium, light gray, dol.		
		375-380	5	Sandstone, very fine, pink, dolomitic		
		380-395	15	Shale, sandy, gray, red, dolomitic, glauc.		
		395-400	5	Sandstone, fine, silty, pink, dolomitic		
		400-410	10	Sandstone, medium to coarse, light gray		
D E A U	75	410-420	10	Sandstone, fine to medium, light gray		
		420-430	10	Sandstone, fine, silty, red		
		430-455	25	Sandstone, fine to medium, silty, light gray		
		455-465	10	Sandstone, medium to fine, light gray		
		465-475	10	Sandstone, fine, silty, pink		
C	75	475-480	5	Sandstone, medium to fine, white		
		480-495	15	Sandstone, fine to medium, light gray		

Formations: Drift; Platteville; St. Peter ; Lower Magnesian (Prairie du Chien); Trempealeau; Franconia; Dresbach (Galesville); Eau Claire

WELL #2 PERM WELL #46820

Deepened in 1958 by Bergerson-Caswell, Inc., Drillers

S U M M E R	160	495-505	10	Sandstone, med. & fine gr., dark red, dolomitic	8" hole
		505-540	35	Sandstone, medium grained, light pink-gray	
		540-560	20	Sandstone, very fine & fine grained, pink	
		560-570	10	Sandstone, fine grained, pink-gray	
		570-580	10	Sandstone, fine & medium grained, pink-gray	

Dresbach group undifferentiated entered 160'

Tested, after well was deepened, for 24 hours at 350 g.p.m., specific capacity = 11.7 g.p.m./ft. of drawdown. In March 1956 hole was shot at depths from 230' to 475' with a total of 610# of dynamite. Water level dropped from 41' to 72' after shooting at 455'. After shooting well was tested for 24 hours at 470 g.p.m., specific capacity = 7.5 g.p.m./ft. of drawdown.

# APPENDIX H

State of Wisconsin  
Department of Natural Resources  
Private Water Supply  
Box 7921  
Madison, Wisconsin 53707

NOTE:  
White Copy - Division's Copy  
Green Copy - Driller's Copy  
Yellow Copy - Owner's Copy

WELL CONSTRUCTOR'S REPORT  
Form 3300-15 Rev. 2-79

APR 14 1982

1. COUNTY <u>Fond du Lac</u>		CHECK (1) ONE: <input checked="" type="checkbox"/> Town <input type="checkbox"/> Village <input type="checkbox"/> City		Name <u>Ripon</u>		
2. LOCATION <u>CENTER OF SW 1/4</u> OR - Grid or Street No. _____ Street or Road Name _____ AND - If available subdivision name, lot & block No. _____		Section <u>29</u> Township <u>16N</u> Range <u>14E</u>		3. NAME <input type="checkbox"/> OWNER <input type="checkbox"/> AGENT AT TIME OF DRILLING CHECK (1) ONE <u>(R.G. BROOKS) - WELL #1</u>		
4. DISTANCE IN FEET FROM WELL TO ADDRESS (Record answer in appropriate block)		Sanitary Bldg. Drain C.I. _____ Other _____		Sanitary Bldg. Sewer C.I. _____ Other _____		
Floor Drain Connected To:		Storm Bldg. Drain C.I. _____ Other _____		Storm Bldg. Sewer C.I. _____ Other _____		
Street Sewer		Other Sewers		Foundation Drain Connected to:		
San. _____ Storm _____ C.I. _____ Other _____		Sewer _____ Sewage Sump _____ Clearwater Dr. _____		Sewage Sump _____ Clearwater Sump _____		
Clearwater Dr. _____		Sewage Sump _____		Clearwater Sump _____		
Septic Tank _____		Holding Tank _____		Sewage Absorption Unit:		
Sewage Pit _____		Sewage Bed _____		Sewage Trench _____		
Manure Pile or Retention or Pneumatic Tank		Manure Storage Basin		Concrete Floor Only		
Concrete Floor and Partial Concrete walls		Other (Describe)				
5. Well is intended to supply water for: <u>Irrigation</u>		9. FORMATIONS				
6. DRILLHOLE		Kind		From (ft.)	To (ft.)	
Di. (in.)	From (ft.)	To (ft.)	Di. (in.)	From (ft.)	To (ft.)	
<u>17 1/2</u>	<u>Surface</u>	<u>42</u>	<u>12 1/2</u>	<u>340</u>	<u>375</u>	
<u>13</u>	<u>42</u>	<u>340</u>				
7. CASING LINER, CURBING AND SCREEN		Material, Weight, Specification		From (ft.)		To (ft.)
Mfg. & Method of Assembly		From (ft.)		To (ft.)		
<u>no. 375 wall</u>		<u>Surface</u>		<u>42</u>		
<u>14 welded jts</u>						
8. CHANGES & ADDITIONS TO THIS REPORT WERE MADE SUBSEQUENT TO PHONE CONVERSATION WITH SAM ON 4-14-82		APPROVAL DATE: <u>Aug. 27, 1981</u> FILE LOCATION: <u>RIPON</u> CO: <u>TO STATE GEOLOGIST</u>				
10. TYPE OF DRILLING MACHINE USED		10. TYPE OF DRILLING MACHINE USED				
<input type="checkbox"/> Cable Tool		<input type="checkbox"/> Rotary Hammer w/drilling mud & air		<input type="checkbox"/> Jetting with		
<input type="checkbox"/> Rotary-air w/drilling mud		<input checked="" type="checkbox"/> Rotary Hammer & air		<input type="checkbox"/> Air		
<input type="checkbox"/> Rotary-w/drilling mud		<input type="checkbox"/> Reverse Rotary		<input type="checkbox"/> Water		
11. MISCELLANEOUS DATA		11. MISCELLANEOUS DATA				
Yield Test: <u>8</u> Hrs at <u>100</u> GPM		Well is terminated <u>13</u> inches <input checked="" type="checkbox"/> Above final grade <input type="checkbox"/> Below				
Depth from surface to normal water level <u>160</u> FL		Well disinfectant upon completion <input type="checkbox"/> Yes <input type="checkbox"/> No				
Depth of water level when pumping <u>3230</u> FL		Well sealed watertight upon completion <input type="checkbox"/> Yes <input type="checkbox"/> No				
Water sample sent to <u>Spec. Lab = 9.1 ppm / At. J.D.</u> laboratory on _____ 19__						

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, streets, subs. method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: San Van L. Leland Business Name and Complete Mailing: \_\_\_\_\_