164870

WARZYN

PROJECT
1526892

VOLUME II OF III

REMEDIAL INVESTIGATION/FEASIBILITY STUDY

TECHNICAL MEMORANDUM 1

BELOIT CORPORATION
BLACKHAWK FACILITY
ROCKTON, ILLINOIS

JULY 1993

PREPARED FOR:
BELOIT CORPORATION
ROCKTON, ILLINOIS

• • •

PREPARED BY:
WARZYN INC.
MADISON, WISCONSIN

RECEIVED
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[mad-606-198x]

A

WELL RECORD

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 6-8-76

10. Property owner Roscoe Realty Well No. 584-7631
Address Roscoe, Illinois
Driller Olson Well Co. License No. 102-93
11. Permit No. 47564 Date 5/20/76
12. Water from gravel 6' boulder 1½ Formation 13. County Winnebago
at depth 151 to 157 ft.
14. Screen: Diam. _____ in.
Length: _____ ft. Slot _____

Sec. 11
Twp. 46N
Rge. 1E
Elev. _____

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5	15 steel	0	157

SHOW LOCATION IN SECTION PLAT
600'SL 150'EL
(permit) SE

16. Size Hole below casing: 5 in.
17. Static level 30 ft. below casing top which is 1 ft. above ground level. Pumping level 32 ft. when pumping at 15 gpm for 1 hours. Sub. pump set at 60'.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
topsoil	3	3
sand & big rock	39	42
fine sand	21	63
sand & gravel	12	75
clay & gravel	65	140
gravel & little clay	11	151
gravel 6' - 1½ boulder	6	157

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Robert Olson DATE 6/25/76

COUNTY No. 23897

WINNEBAGO 11-46N-1E

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 7-10-76

10. Property owner Roscoe Realty Well No. 585-7632
Address Roscoe, Illinois
Driller Olson Well Co. License No. 102-93
11. Permit No. 47563 Date 5/20/76
12. Water from gravel (Formation) 13. County Winnebago
at depth 59 to 62 ft. Sec. 11
14. Screen: Diam. 5 in. Twp. 46N
Length: 2 ft. Slot 15 Rge. 1E
Elev.

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5	15 steel	0	62

SHOW LOCATION IN SECTION PLAT
800'SL 150'EL
SE (permit)

16. Size Hole below casing: 5 in.
17. Static level 24 ft. below casing top which is 1 ft. above ground level. Pumping level 50 ft. when pumping at 15 gpm for 1 hours. Sub. pump set at 50'

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
topsoil	2	2
sand & gravel	38	40
clay gravel	19	59
gravel	3	62

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Robert C. Olson DATE 7/29/76

WINNEBAGO COUNTY No. 24061 11-46N-1E

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 11-10-76

10. Property owner Roscoe Realty Well No. 610-7663
Address Roscoe, Ill. (15704 Witmer Rd.)
Driller Olson Well Co. License No. 102-93
11. Permit No. 50850 Date 8/12/76
12. Water from gravel (Formation) 13. County Winn
at depth 47 to 70 ft.
14. Screen: Diam. _____ in.
Length: 2 ft. Slot 20

Sec. 11
Twp. 46N
Rge. 1E
Elev. _____

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5	15 steel	0	70

SHOW LOCATION IN SECTION PLAT
1085' SL 155' EL
SE (permit)

16. Size Hole below casing: 5 in.
17. Static level 30 ft. below casing top which is 1 ft. above ground level. Pumping level 60 ft. when pumping at 15 gpm for 1 hours. Sub. pump set at 50'.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
topsoil	2	2
sand & gravel	25	27
gravel & clay	20	47
gravel	23	70

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Robert Olson DATE 12/1/76

COUNTY No. 24263

WINNEBAGO 11-46N-1E

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Boyce, John Well No. _____
Address Witmer Rd. Rockford IL
Driller Olson, Robert License No. 102-932
11. Permit No. 60368 Date 05/10/77
12. Water from gravel 13. County Winnebago
at depth 170 to 174 ft.
14. Screen: Diam. _____ in.
Length: 2 ft. Slot 15

Sec. 11
Twp. 46 N
Rge. 1 E
Elev. _____

750' N 145' W SEc

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (ft)	To (ft)
5	15 STEEL	0	174

16. Size hole below casing: 5 in.
17. Static level 30 ft. below casing top which is 1 ft. above ground level. Pumping level 85 ft. when pumping at 15 gpm for 1 hours.

18. Formations passed through	Thickness	Bottom
top soil	1	1
sand & big gravel	15	16
sand & clay	69	85
clay & gravel	85	170
gravel	4	174

Winnebago 12-201-27907-00 11-46N-01E

LOG OF WATER WELL

Property owner: Robert Moffitt Well No. 1

Drilled by: Bloyer Well Co Year: 1964

Formations passed through	Thickness	Depth of Bottom
Gravel	35	35
Hard Pan	10	45
Sand	5	50

COUNTY No. 1986

Received from Winnebago County Department of Public Health

[Continue on back if necessary]

Finished in Sand at 50 to ____ ft.

Cased with 4 inch Blk Std from 0 to 48 ft.

and 4 inch Screen from 48 to 50 ft.

Size hole below casing ____ inch. Static level from surf. 30 ft.

Tested capacity 10 gal. per min. Temperature — °F.

Water lowered to 55 ft. ____ in. in 1 hrs. ____ min.

Length of test 1 hrs. ____ min. Screen Brass

Slot 20 Diam. 4" Length 2' Bottom set at 50 ft.

[Show location in Section Plat]

Township name Rockton Elev. ____ Sec. 12

Description of location NE¼ of SW¼ Twp. 46N

Rge. 1E

Signed R. Greenfield County Winnebago

Copy for Illinois State Water Survey WINNEBAGO Index: 12-46N-1E

LOG OF WATER WELL

Property owner Joseph Kalata Well No.

Drilled by Bloyer Well Co Year 1965

Formations passed through	Thickness	Depth of Bottom
Topsoil	0	5
sand gravel	5	55
Mud	55	65
Muddy gravel	65	90
sand & gravel	90	93

COUNTY No. 1985

[Continue on back if necessary]

Finished in sand & gravel at 93 to ft.

Cased with 4 inch Well pipe from 0 to 91 ft.

and inch from to ft.

Size hole below casing 4 inch. Static level from surf 46 ft.

Tested capacity gal. per min. Temperature °F.

Water lowered to ft. in. in hrs. min.

Length of test hrs. min. Screen Johnson Wilson

Slot 20 Diam. 4 Length 2 Bottom set at 93 ft.

[Show location in Section Plat]

Township name Rockton Elev.

Description of location

SE ¼ SW ¼

Sec. 12

Twp. 46

Rge. 1E

Signed Everett Mellott County Winn

WINNEBAGO

Copy for Illinois State Geological Survey Index: 12-46N-1E

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 11-15-71

10. Property owner Donald McDonald Well No. _____
Address 312 Forest Park, South Beloit
Driller Melvin McKinney License No. 92-481
11. Permit No. F12842 Date 10-11-71
12. Water from SAND Formation 13. County Winnebago
at depth 93 to 100 ft. Sec. 12
14. Screen: Diam. 5 in. Twp. 46N
Length: 3 ft. Slot 25 Rge. 1E
Elev. _____

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5	Steel 15#	0	98

SHOW LOCATION IN SECTION PLAT
NW/c SW SW SW
(permit)

16. Size Hole below casing: _____ in.
17. Static level 45 ft. below casing top which is 1 ft. above ground level. Pumping level 65 ft. when pumping at 20 gpm for 1½ hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
TOP SOIL	2	2
SAND & GRAVEL	70	72
BLUE CLAY & GRAVEL	21	93
SAND & GRAVEL	7	100

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Melvin McKinney DATE 12-15-71

2119

WINNEBAGO 12-46N-1E

16, STATE OFFICE BUILDING, SPRINGFIELD,
CAL / WATER SURVEYS SECTION. BE SURE TO

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 7-28-73

10. Property owner George Franzen Well No. 318-73-47
Address Rockton, Illinois
Driller Olson Well Co. License No. 92-424
11. Permit No. 18210 Date 3/20/73
12. Water from Sand & Gravel (Formation) 13. County Winnebago
at depth 98 to 101 ft.
14. Screen: Diam. _____ in.
Length: _____ ft. Slot _____

Sec. 12
Twp. 46N
Rge. 1E
Elev. _____

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5	Steel 15.00	0	101

SHOW LOCATION IN SECTION PLAT
850' S. line, 400' W. line of section (Permit)

16. Size Hole below casing: 5 in.
17. Static level 30 ft. below casing top which is 2 ft. above ground level. Pumping level 52 ft. when pumping at 15 gpm for 1 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Top Soil	2	2
Sand	65	67
Clay & Sand	20	87
Sand	11	98
Sand & Gravel	3	101

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED [illegible] DATE 8/18/73

[illegible] No. 2734

WINNEBAGO 12-46N-1E

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 6-14-76

10. Property owner Earl Hallcote Well No. _____
Address Box 234 S. Beloit, Ill
Driller Ed Greenfield License No. 92-582
11. Permit No. 17554 Date May 20 1976
12. Water from Sand (Formation) 13. County Winn.
at depth 68 to 70 ft. Sec. 12
14. Screen: Diam. 4 in. Twp. 46N
Length: 2 ft. Slot 20 Rge. 1E
Elev. _____

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
4	Blk 11lb	0	68
4	SS screen (Johnson)	68	70

SHOW LOCATION IN SECTION PLAT
100'SL 100' WL NW SE SW
(permit)

16. Size Hole below casing: _____ in.
17. Static level 50 ft. below casing top which is 1 ft. above ground level. Pumping level 55 ft. when pumping at 10 gpm for 4 hours. Sub. pump set at 60'

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Soil	2'	2'
Sand & gravel	60	62'
Sand	8'	70'

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Ed Greenfield DATE 6-14-76

WINNEBAGO COUNTY No. 24062 12-46N-1E

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Tripp, Isac Well No. _____
Address 428 Green Rockton IL
Driller Greenfield, Edwin D. License No. 102-2714
11. Permit No. 59393 Date 04/26/77
12. Water from sand 13. County Winnebago
at depth 70 to 72 ft.
14. Screen: Diam. 4 in.
Length: 2 ft. Slot 15

Sec. 12
Twp. 46 N
Rge. 1 E
Elev. _____

100' S 100' W NEc NW SW SW

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (ft)	To (ft)
4	BLACK STEEL 11 LB/FT	0	70
4	STAINLESS STL SCREEN	70	72

16. Size hole below casing: _____ in.
17. Static level 45 ft. below casing top which is 1 ft. above ground level. Pumping level 50 ft. when pumping at 10 gpm for 4 hours.

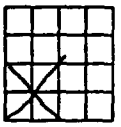
18. Formations passed through	Thickness	Bottom
sand & gravel	72	72

Winnebago 12-201-27917-00 12-46N-01E

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Molitor, Wayne Well No. _____
Address 402 Coronado Blvd. Rockford IL
Driller Hinkle, James A. License No. 102-1898
11. Permit No. 60549 Date 05/11/77
12. Water from drift 13. County Winnebago
at depth 50 to 115 ft.
14. Screen: Diam. 6 in.
Length: 3 ft. Slot 15

Sec. 12
Twp. 46 N
Rge. 1 E
Elev. _____



15. Casing and Liner Pipe SW

Diam. (in.)	Kind and Weight	From (ft)	To (ft)
6	STEEL 19	0	113

16. Size hole below casing: 6 in.
17. Static level 50 ft. below casing top which is 1 ft. above ground level. Pumping level 65 ft. when pumping at 10 gpm for 4 hours.

18. Formations passed through	Thickness	Bottom
top soil	5	5
sand & gravel	25	30
sand	35	65
clay & sand	25	90
clay	5	95
sand & gravel	20	115

Winnebago 12-201-27914-00 12-46N-01E

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Lazzerini, E. Builder Well No. _____
    Address Yale Bridge Rd. East Beloit IL
    Driller Livingston, Lowell License No. 102-1468
11. Permit No. 70859 Date 01/23/78
12. Water from drift 13. County Winnebago
    at depth _____ to _____ ft. Sec. 12
14. Screen: Diam. 5 in. Twp. 46 N
    Length: 3 ft. Slot .02 Rge. 1 E
    Elev. _____

NW NE SW

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (ft)	To (ft)
5	A-53	0	77

16. Size hole below casing: _____ in.
17. Static level 50 ft. below casing top which is 1 ft. above ground level. Pumping level 60 ft. when pumping at 10 gpm for 4 hours.

18. Formations passed through	Thickness	Bottom
top soil	3	3
sand & gravel	77	80

Winnebago 12-201-27913-00 12-46N-01E

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Talley, Jim Well No. _____
Address RR 1 Wittwer Rd. South Beloit IL
Driller Greenfield, Edwin D. License No. 92-3147
11. Permit No. 74686 Date 05/24/78
12. Water from sand 13. County Winnebago
at depth 116 to 121 ft. Sec. 12
14. Screen: Diam. 6 in. Twp. 46 N
Length: 4 ft. Slot _____ Rge. 1 E
Elev. _____

15. Casing and Liner Pipe NW SW SW

Diam. (in.)	Kind and Weight	From (ft)	To (ft)
6	STEEL 15 LB/FT	0	121

16. Size hole below casing: 5.87 in.
17. Static level 45 ft. below casing top which is 1 ft. above ground level. Pumping level 65 ft. when pumping at 25 gpm for 3 hours.

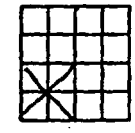
18. Formations passed through	Thickness	Bottom
top soil	2	2
sand & gravel	73	75
blue clay	25	100
sand & gravel	21	121

Winnebago 12-201-27915-00 12-46N-01E

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Commercial Mortgage Well No. _____
    Address Roscoe IL
    Driller Livingston, Lowell License No. 102-1468
11. Permit No. 88994 Date 08/23/79
12. Water from dirft 13. County Winnebago
    at depth _____ to _____ ft.
14. Screen: Diam. 5 in.
    Length: 2 ft. Slot .02

Sec. 12
Twp. 46 N
Rge. 1 E
Elev. _____



15. Casing and Liner Pipe SW

Diam. (in.)	Kind and Weight	From (ft)	To (ft)
5	A-53	0	138

16. Size hole below casing: _____ in.
17. Static level 60 ft. below casing top which is 1 ft. above ground level. Pumping level 80 ft. when pumping at 10 gpm for 4 hours.

18. Formations passed through	Thickness	Bottom
top soil	2	2
red sand	2	4
red sand & gravel	82	86
blue clay & sand	10	96
blue clay	12	108
blue clay & sand	25	133
sand & gravel	7	140

Winnebago 12-201-27910-00 12-46N-01E

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Hakes, Harland Well No. _____
Address 71 Hononegah Rd. Rockton IL
Driller Greenfield, Edwin D. License No. 102-2714
11. Permit No. 111638 Date 03/28/84
12. Water from sand 13. County Winnebago
at depth 81 to 84 ft.
14. Screen: Diam. 4 in.
Length: 3 ft. Slot 20

Sec. 12
Twp. 46 N
Rge. 1 E
Elev. _____

100' N 100' W SEc NW SW SW

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (ft)	To (ft)
4	BLACK PE 10.79	0	81
4	JOHNSON SS SCREEN	81	84

16. Size hole below casing: _____ in.
17. Static level 55 ft. below casing top which is 1 ft. above ground level. Pumping level 58 ft. when pumping at 10 gpm for 3 hours.

18. Formations passed through	Thickness	Bottom
clay & gravel fill	5	5
sand & gravel	40	45
clay & gravel	30	75
sand	9	84

Winnebago 12-201-27911-00 12-46N-01E

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Lane, Frank Well No. _____
Address Whitwer Rd. Rockton IL
Driller Bull, Jack D. License No. 92-6063
11. Permit No. 124343 Date 06/04/86
12. Water from sand, gravel 13. County Winnebago
at depth 40 to 81 ft. Sec. 12
14. Screen: Diam. 4 in. Twp. 46 N
Length: 3 ft. Slot .015 Rge. 1 E
Elev. _____

NW SW SW

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (ft)	To (ft)
5	.258 BLACK	0	78

16. Size hole below casing: _____ in.
17. Static level 40 ft. below casing top which is 1 ft. above ground level. Pumping level 50 ft. when pumping at 12 gpm for 6 hours.

18. Formations passed through	Thickness	Bottom
top soil	7	7
sand, gravel	74	81

Winnebago 12-201-26084-00 12-46N-01E

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Stone, Larry Well No. _____
Address Anulet Dr. Rockton IL
Driller Bull, Jack D. License No. 092-6063
11. Permit No. 128124 Date 11/17/86
12. Water from sand, gravel 13. County Winnebago
at depth 50 to 73 ft.
14. Screen: Diam. 4 in.
Length: 3 ft. Slot .015

Sec. 18
Twp. 46 N
Rge. 2 E
Elev. _____

SE SE SW

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (ft)	To (ft)
5	.258 BLACK	0	73

16. Size hole below casing: _____ in.
17. Static level 50 ft. below casing top which is 1 ft. above ground level. Pumping level 56 ft. when pumping at 12 gpm for 6 hours.

18. Formations passed through	Thickness	Bottom
top soil	7	7
sand, gravel	66	73

Winnebago 12-20i-26300-00 18-46N-02E

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Stone, Larry Well No. _____
    Address 13643 Anulet Rockton IL
    Driller Bull, Jack D. License No. 092-6063
11. Permit No. 130756 Date 04/08/87
12. Water from sand & gravel 13. County Winnebago
    at depth 45 to 78 ft.
14. Screen: Diam. 4 in.
    Length: 3 ft. Slot .015

Sec. 18
Twp. 46 N
Rge. 2 E
Elev. _____

SE SE SW

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (ft)	To (ft)
5	.258 BLACK	0	75

16. Size hole below casing: _____ in.
17. Static level 45 ft. below casing top which is 1 ft. above ground level. Pumping level 45 ft. when pumping at 12 gpm for 6 hours.

18. Formations passed through	Thickness	Bottom
top soil	5	5
sand, gravel	73	78

Winnebago 12-201-26526-00 18-46N-02E

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Stone, Larry Well No. _____
Address 13604 Anulet Dr. Rockton IL
Driller Bull, Jack D. License No. 092-6063
11. Permit No. 130757 Date 04/08/87
12. Water from sand, gravel 13. County Winnebago
at depth 40 to 75 ft. Sec. 18
14. Screen: Diam. 4 in. Twp. 46 N
Length: 3 ft. Slot .015 Rge. 2 E
Elev. _____

SE SE SW

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (ft)	To (ft)
5	.258 BLACK	0	72

16. Size hole below casing: _____ in.
17. Static level 40 ft. below casing top which is 1 ft. above ground level. Pumping level 45 ft. when pumping at 12 gpm for 6 hours.

18. Formations passed through	Thickness	Bottom
top soil	7	7
sand, gravel	68	75

Winnebago 12-201-26527-00 18-46N-02E

Winnebago 12-201-26527-00 18-46N-02E

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Stone, Larry Well No. _____
Address Anulet Rockton IL
Driller Bull, Jack B. License No. 092-6063
11. Permit No. 136613 Date 10/23/87
12. Water from sand, gravel 13. County Winnebago
at depth 60 to 80 ft.
14. Screen: Diam. 4 in.
Length: 3 ft. Slot .015

Sec. 18
Twp. 46 N
Rge. 2 E
Elev. _____

SE SE SW

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (ft)	To (ft)
5	.258 BLACK	0	77

16. Size hole below casing: _____ in.
17. Static level 50 ft. below casing top which is 1 ft. above ground level. Pumping level 50 ft. when pumping at 12 gpm for 6 hours.

18. Formations passed through	Thickness	Bottom
top soil	8	8
sand, gravel	72	80

Winnebago 12-201-26784-00 18-46N-02E

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 2-10

10. Property owner Voss Builders Well No. 1
Address 407 Central
Driller Ed Greenfield License No. 92-582
11. Permit No. NF 17794 Date Feb. 6
12. Water from Sand (Formation) 13. County Winnebago
at depth 75 to 77 ft.
14. Screen: Diam. 4 in.
Length: 2 ft. Slot 15

Sec. 12
Twp. 46N
Rge. 1E
Elev. ____

SHOW LOCATION IN SECTION PLAT

50'SL, 50'EL, NW SW SW (Permit)

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
4	Blk. Tre 11# ft.	0	75
4	Johnson S.S. screen	75	77

16. Size Hole below casing: ____ in.
17. Static level 40 ft. below casing top which is 1 ft. above ground level. Pumping level 45 ft. when pumping at 10 gpm for 4 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Sand & gravel	60	60
sand	17	77

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Ed Greenfield DATE Mar. 17

COUNTY No. 2590

WINNEBAGO 12-46N-1E

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Stone, Larry Well No. _____
Address 231 Dancette Rockton IL
Driller Bull, Jack D. License No. 092-6063
11. Permit No. 136614 Date 10/23/87
12. Water from sand, gravel 13. County Winnebago
at depth 50 to 79 ft. Sec. 18
14. Screen: Diam. 4 in. Twp. 46 N
Length: 3 ft. Slot .015 Rge. 2 E
Elev. _____

SE SE SW

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (ft)	To (ft)
5	.258 BLACK	0	76

16. Size hole below casing: _____ in.
17. Static level 40 ft. below casing top which is 1 ft. above ground level. Pumping level 45 ft. when pumping at 12 gpm for 6 hours.

18. Formations passed through	Thickness	Bottom
top soil	5	5
sand, gravel	74	79

Winnebago 12-201-26785-00 18-46N-02E

LOG OF WATER WELL

Property owner R. B. Leindorf (Lundorf) Well No. 1

Drilled by Bloyer Well Co. Year 1964

Formations passed through	Thickness	Depth of Bottom
Gravel	20	20
Sand	34	54

COUNTY No. 1987

Received from Winnebago County Department of Public Health

[Continue on back if necessary]

Finished in Sand at 52 to 54 ft.

Cased with 4 inch Blk Stl. from 0 to 52 ft.

and 4 inch Screen from 52 to 54 ft.

Size hole below casing — inch. Static level from surf. 15 ft.

Tested capacity 10 gal. per min. Temperature — °F.

Water lowered to 20 ft. in. in hrs. 10 min.

Length of test 1 hrs. min. Screen Brass

Slot 15 Diam. 4" Length 2' Bottom set at 54 ft.

[Show location in Section Plat]

Township name Rockton Elev. —

Description of location SE¼ of NW¼

Sec. 13

Twp. 46N

Rge. 1E

Signed Ed Greenfield County Winnebago

Copy for Illinois State Water Survey WINNEBAGO Index: 13-46N-1E

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 4-14-72

10. Property owner LaVern Collins Well No. 1

Address 1300 Watts Ave

Driller Ed Greenfield License No. 92-582

11. Permit No. NF 14193 Date April 7-72

12. Water from sand (Formation) 13. County Winnebago

at depth 61 to 63 ft. Sec. 13

14. Screen: Diam. _____ in. Twp. 46 N

Length: _____ ft. Slot _____ Rge. 1 E

Elev. _____

			⊗

SHOW LOCATION IN SECTION PLAT

SW NE NE (Permit)

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
4	T+C 11# ft	0	61
4	Screen (S.S.)	61	63

16. Size Hole below casing: _____ in.

17. Static level 35 ft. below casing top which is 1 ft. above ground level. Pumping level 41 ft. when pumping at 10 gpm for 8 hours.

18. FORMATIONS PASSED THROUGH	~~THICKNESS~~ TOP	DEPTH OF BOTTOM
sand	0	63

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Ed Greenfield DATE May 7-72

2314

WINNEBAGO 13-46N-1E

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 5-24-75

10. Property owner Dave Sockness Well No. 1
Address Rockton Ill.
Driller Ed Greenfield License No. 92-582
11. Permit No. 37733 Date May 14
12. Water from Sand (Formation) 13. County Winnebago
at depth 61 to 63 ft.
14. Screen: Diam. 4 in.
Length: 2 ft. Slot 15

Sec. 13
Twp. 46N
Rge. 1E
Elev.

			⊙

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
4	Blk. P.E. 11# ft.	0	61
4	Johnson S.S. Screen	61	63

SHOW LOCATION IN SECTION PLAT
100'SL, 100'WL
NE NE NE
(Permit)

16. Size Hole below casing: _____ in.
17. Static level 40 ft. below casing top which is 1 ft. above ground level. Pumping level 42 ft. when pumping at 10 gpm for 1 hours. Sub. pump set at 55'

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
soil	2	2
gravel	18	20
sand & gravel	15	35
sand	28	63

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Ed Greenfield DATE May 28

COUNTY No. 23510

WINNEBAGO 13-46N-1E

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 6-16-76

10. Property owner Dave Jackness Well No. _____
Address 110 W Union Rockton, Ill
Driller Ed Greenfield License No. 92-582
11. Permit No. 47582 Date May 20 1976
12. Water from Sand (Formation) 13. County Winn
at depth 62 to 64 ft. Sec. 13
14. Screen: Diam. 4" in. Twp. 46N
Length: 2' ft. Slot 20 Rge. 1E
Elev. _____

		(0)	

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
4	B/K 11/65	0	62
4	SS ~~[illegible]~~ screen (Johnson)	62	64

SHOW LOCATION IN SECTION PLAT
100'SL 100'
EL SE NW NE
(permit)

16. Size Hole below casing: _____ in.
17. Static level 35 ft. below casing top which is 1 ft. above ground level. Pumping level 45 ft. when pumping at 10 gpm for 4 hours. Sub. pump set at 55'

18. FORMATIONS PASSED THROUGH	~~THICKNESS~~ TOP	DEPTH OF BOTTOM
Soil	30"	30"
Sand and gravel	~~[illegible]~~ 30	62
Sand	62	64

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED [signature] DATE July 16-76

WINNEBAGO COUNTY No. 24063 13-46N-1E

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 2-26-77

10. Property owner RICHARD NIELSEN Well No. 1
Address 409 DINGMAN DR.
Driller ED GREENFIELD License No. 92-582
11. Permit No. 57131 Date FEB 25
12. Water from SAND (Formation) 13. County WINNEBAGO
at depth 58 to 60 ft.
14. Screen: Diam. 4 in.
Length: 2 ft. Slot 15

Sec. 13
Twp. 46N
Rge. 1E
Elev. ____

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
4	BLK P.E. 11#	0	58
4	S.S. SCREEN	58	60

SHOW LOCATION IN SECTION PLAT

100'SL, 100'WL, SE SW NE (Permit)

16. Size Hole below casing: ____ in.
17. Static level 30 ft. below casing top which is 1 ft. above ground level. Pumping level 30 ft. when pumping at 10 gpm for 1 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
SOIL	2	2
SAND & GRAVEL	42	44
SAND	~~42~~ 16	60

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Ed Greenfield DATE March 7-77

COUNTY No. 24423

WINNEBAGO 13-46N-1E

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Rockton Township Well No. _____
Address Blackhawk Blvd. South Beloit IL
Driller Greenfield, Edwin D. License No. 102-2714
11. Permit No. 59390 Date 04/26/77
12. Water from sand 13. County Winnebago
at depth 70 to 82 ft. Sec. 13
14. Screen: Diam. 6 in. Twp. 46 N
Length: 3 ft. Slot 15 Rge. 1 E
Elev. _____

15. Casing and Liner Pipe 100' N 100' W SEc NE NE NE

Diam. (in.)	Kind and Weight	From (ft)	To (ft)
6	BLACK 18.97 LB/FT	0	80
6	STAINLESS SCREEN	80	82

16. Size hole below casing: _____ in.
17. Static level 50 ft. below casing top which is 1 ft. above ground level. Pumping level 60 ft. when pumping at 20 gpm for 5 hours.

18. Formations passed through	Thickness	Bottom
sand & gravel	70	70
sand	12	82

Winnebago 12-201-27924-00 13-46N-01E

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10, Property owner Rockton Area Comm. Health Cntr Well No. _____
Address Blackhawk Boulevard Rockton IL
Driller Greenfield, Edwin D. License No. 102-2714
11. Permit No. 75194 Date 06/07/78
12. Water from sandstone 13. County Winnebago
at depth 240 to 280 ft. Sec. 13
14. Screen: Diam._____in. Twp. 46 N
Length:_____ft. Slot _____ Rge. 1 E
Elev. _____

100' N 100' E SWc SE NE NE

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (ft)	To (ft)
6	BLK P.E. 18.97	0	240

16. Size hole below casing: 6 in.
17. Static level 65 ft. below casing top which is 1 ft. above ground level. Pumping level 68 ft. when pumping at 40 gpm for 8 hours.

18. Formations passed through	Thickness	Bottom
siol	2	2
sand & gravel	38	40
clay	40	80
sandy gravel & clay	10	90
clay & gravel	20	110
clay	110	220
clay & gravel	20	240
sandstone	40	280

Winnebago 12-201-27923-00 13-46N-01E

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Monson, Glenn Well No. _____
Address 1200 Watts Ave. Rockton IL
Driller Greenfield, Edwin D. License No. 102-2714
11. Permit No. 75981 Date 06/22/78
12. Water from sand 13. County Winnebago
at depth 63 to 65 ft. Sec. 13
14. Screen: Diam. 4 in. Twp. 46 N
Length: 2 ft. Slot 20 Rge. 1 E
Elev. _____

100' N 100' E SWc NE SW NE

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (ft)	To (ft)
4	NEW BLK STEEL 11 LB	0	63
4	SS JOHNSON SCREEN	63	65

16. Size hole below casing: _____ in.
17. Static level 23 ft. below casing top which is 1 ft. above ground level. Pumping level 30 ft. when pumping at 10 gpm for 4 hours.

18. Formations passed through	Thickness	Bottom
black dirt	3	3
sand & gravel	2	5
clay & gravel	45	50
sand	15	65

Winnebago 12-201-27922-00 13-46N-01E

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Kothe, Ken Well No. _____
Address 714 N. Center Rockton IL
Driller Greenfield, Edwin D. License No. 102-2714
11. Permit No. 87838 Date 07/17/79
12. Water from sand 13. County Winnebago
at depth 70 to 73 ft. Sec. 13
14. Screen: Diam. 4 in. Twp. 46 N
Length: 3 ft. Slot 20 Rge. 1 E
Elev. _____

15. Casing and Liner Pipe 100' S 100' W NEc SW SW NE

Diam. (in.)	Kind and Weight	From (ft)	To (ft)
4	BLK P.E. 10.79 LB/FT	0	70
4	JOHNSON SS SCREEN	70	73

16. Size hole below casing: _____ in.
17. Static level 50 ft. below casing top which is 1 ft. above ground level. Pumping level 55 ft. when pumping at 10 gpm for 3 hours.

18. Formations passed through	Thickness	Bottom
soil	2	2
sand & gravel	48	50
clay & gravel	15	65
sand	8	73

Winnebago 12-201-27921-00 13-46N-01E

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Cotlins, LaVerne Well No. _____
Address 1643 Yale Bridge Rd. South Beloit IL
Driller Greenfield, Edwin D. License No. 102-2714
11. Permit No. 94138 Date 06/03/80
12. Water from sand 13. County Winnebago
at depth 63 to 65 ft. Sec. 13
14. Screen: Diam. 4 in. Twp. 46 N
Length: 1 ft. Slot 20 Rge. 1 E
Elev. _____

100' S 100' E NWc SE NE

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (ft)	To (ft)
4	BLACK STEEL 11 LB/FT	0	63
4	JOHNSON SS SCREEN	63	65

16. Size hole below casing: _____ in.
17. Static level 30 ft. below casing top which is 1 ft. above ground level. Pumping level 50 ft. when pumping at _____ gpm for _____ hours.

18. Formations passed through	Thickness	Bottom
black dirt	4	4
sand & gravel	59	63
sand	2	65

Winnebago 12-201-27920-00 13-46N-01E

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Bishop, Luthur Well No. _____
Address 1310 Blackhawk Blvd. Rockton IL
Driller Hinkle, James A. License No. 102-1898
11. Permit No. 96150 Date 09/16/80
12. Water from drift 13. County Winnebago
at depth 30 to 60 ft.
14. Screen: Diam. 5 in.
Length: 2 ft. Slot 20

Sec. 13
Twp. 46 N
Rge. 1 E
Elev. _____

SE NE NE

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (ft)	To (ft)
5	14 LB/FT T & C	0	60

16. Size hole below casing: 5 in.
17. Static level 30 ft. below casing top which is 1 ft. above ground level. Pumping level 35 ft. when pumping at 10 gpm for 5 hours.

18. Formations passed through	Thickness	Bottom
top soil	5	5
clay & sand	20	25
sand	10	35
gravel & sand	25	60

Winnebago 12-201-27919-00 13-46N-01E

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Irull, Ezra Well No. _____
Address Prairie Rd. Rockton IL
Driller Bull, Jack D. License No. 92-6063
11. Permit No. 102291 Date 11/30/81
12. Water from sand, gravel 13. County Winnebago
at depth 30 to 48 ft.
14. Screen: Diam. 4 in.
Length: 3 ft. Slot .015

Sec. 13
Twp. 46 N
Rge. 1 E
Elev. _____

15. Casing and Liner Pipe SW SE NW

Diam. (in.)	Kind and Weight	From (ft)	To (ft)
5	.258 BLACK	0	45

16. Size hole below casing: _____ in.
17. Static level 30 ft. below casing top which is 1 ft. above ground level. Pumping level 30 ft. when pumping at 12 gpm for 6 hours.

18. Formations passed through	Thickness	Bottom
black dirt	8	8
sand & gravel	40	48

Winnebago 12-201-27925-00 13-46N-01E

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Griffin, Lucille Well No. _____
Address 1102 Copeland Ave. Beloit IL
Driller Greenfield, Edwin D. License No. 201-2715
11. Permit No. 115073 Date 09/28/84
12. Water from sand 13. County Winnebago
at depth 112 to 114 ft. Sec. 13
14. Screen: Diam. 4 in. Twp. 46 N
Length: 2 ft. Slot 20 Rge. 1 E
Elev. _____

100' N 100' E SWc SE SW NE

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (ft)	To (ft)
4	BLACK PE 10.79	0	112
4	JOHNSON SS SCREEN	112	114

16. Size hole below casing: _____ in.
17. Static level 50 ft. below casing top which is 1 ft. above ground level. Pumping level 52 ft. when pumping at 10 gpm for 3 hours.

18. Formations passed through	Thickness	Bottom
sand	1	1
sand & gravel	39	40
clay & gravel	40	80
clay	25	105
sand	9	114

Winnebago 12-201-27918-00 13-46N-01E

GEOLOGICAL AND WATER SURVEY

Completed 2-28 /

10. Property owner Dan Bruschi Well No. _____
Address 310 Kedzie So Beloit
Driller Ed Greenfield License No. 92-582
11. Permit No. 27522 Date Feb. 6
12. Water from limestone (Formation) 13. County Winnebago
at depth 41 to 100 ft.
14. Screen: Diam. _____ in.
Length: _____ ft. Slot _____

Sec. 7
Twp. 46N
Rge. 2E
Elev. _____

	⊙		

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
6	Blk. P.E. 19# ft	0	41

SHOW LOCATION IN SECTION PLAT
100'SL, 100'WL of NE NE SW (Permit)

16. Size Hole below casing: 6 in.
17. Static level 50 ft. below casing top which is 1 ft. above ground level. Pumping level 50 ft. when pumping at 10 gpm for 1 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
sand + gravel	18	18
limestone	52	70
sandstone	30	100

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Ed Greenfield DATE March 13

COUNTY No. 23009

WINNEBAGO 7-46N-2E

LOG OF WATER WELL

Property owner Harold Bates Well No. 1429

Drilled by Walter Govert Year 1965

Formations passed through	Thickness	Depth of Bottom
Sand + Gravel	40	40
Sand	35	75
Sandy Clay	75	95
Fine Sand	30	105
Sand Stone	28	133

COUNTY No. 1998

[Continue on back if necessary]

Finished in Sandstone at 112 to 133 ft.

Cased with 4 inch Black Pipe Steel from 0 to 112 ft.

and – inch – from to ft.

Size hole below casing 4 inch. Static level from surf 55 ft.

Tested capacity 20 gal. per min. Temperature 56 °F.

Water lowered to 59 ft. – in. in 1 hrs. 30 min.

Length of test 2 hrs. – min. Screen –

Slot – Diam. – Length – Bottom set at – ft.

[Show location in Section Plat]

Township name Rockton Elev.

Description of location N.E. ¼ of the S.W. ¼

Sec. 7

Twp. 46N

Rge. 2E

Signed Walter Govert County Winnebago

WINNEBAGO 7-46N-2E

Copy for Illinois State Geological Survey Index:

GEOLOGICAL AND WATER SURVEYS WELL RECORD
Completed 9-27-74

10. Property owner Steve Nammingga Well No. 1
Address 821 Blackhawk So Beloit, Ill
Driller Ed Greenfield License No. 92-582
11. Permit No. 33369 Date Sept. 25
12. Water from sand (Formation) 13. County Winnebago
at depth 66 to 68 ft.
14. Screen: Diam. 4 in.
Length: 2 ft. Slot 15

Sec. 7
Twp. 46N
Rge. 2E
Elev. ____

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
4	Blk. A.E. 11# ft.	0	66
4	Johnson S.S. screen	66	68

SHOW LOCATION IN SECTION PLAT
50'SL,50'WL of NE NE SW (Permit)

16. Size Hole below casing: ____ in.
17. Static level 48 ft. below casing top which is 1 ft. above ground level. Pumping level 51 ft. when pumping at 10 gpm for 3 hours. Submersible, set at 50'

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
sand	68	68

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Ed Greenfield DATE Oct. 7-74

COUNTY No. 23278

WINNEBAGO 7-46N-2E

REAU OF ENVIRONMENTAL HEALTH, 535 WEST
2701. DO NOT DETACH GEOLOGICAL/WATER
DE PROPER WELL LOCATION.

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 7/18/75

10. Property owner George Leonhard Well No. _____
Address 442 Whittemore S. Beloit
Driller Ed Greenfield License No. 92-582
11. Permit No. 39223 Date July 10
12. Water from Sand (Formation) 13. County Winnebago
at depth 63 to 65 ft.
14. Screen: Diam. 4 in.
Length: 2 ft. Slot 15

Sec. 7
Twp. 46 N
Rge. 2E
Elev. _____

	P		

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
4	Blk. P.E. 11# ft.	0	63
4	S.S. screen	63	65

SHOW LOCATION IN SECTION PLAT
50'SL 50'EL
NE SE SW
(permit)

16. Size Hole below casing: _____ in.
17. Static level 50 ft. below casing top which is 1 ft. above ground level. Pumping level 50 ft. when pumping at 10 gpm for 1 hours. Sub. pump set at 55'

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Sand + gravel	6	6
Sand	59	65

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Ed Greenfield DATE Aug 1

COUNTY No. 23633

WINNEBAGO 7-46N-2E

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Reich, Robert Well No. _____
Address 1831 Blackhawk Blvd, South Beloit IL
Driller Greenfield, Edwin D. License No. 102-2714
11. Permit No. 59210 Date 04/18/77
12. Water from limestone 13. County Winnebago
at depth 42 to 120 ft. Sec. 7
14. Screen: Diam. _____ in. Twp. 46 N
Length: _____ ft. Slot _____ Rge. 2 E
Elev. _____

SW NE SW

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (ft)	To (ft)
6	BLACK PE 18.97	0	42

16. Size hole below casing: 6 in.
17. Static level 55 ft. below casing top which is 1 ft. above ground level. Pumping level 55 ft. when pumping at 10 gpm for 2 hours.

18. Formations passed through	Thickness	Bottom
clay	5	5
sandy clay & gravel	15	20
limestone	100	120

Winnebago 12-201-28000-00 07-46N-02E

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Burton, Jim Well No. _____
Address 220 Kedzie South Beloit IL
Driller Greenfield, Edwin D. License No. 102-2714
11. Permit No. 59211 Date 04/18/77
12. Water from lime & sandstone 13. County Winnebago
at depth 42 to 120 ft. Sec. 7
14. Screen: Diam._____in. Twp. 46 N
Length:_____ft. Slot _____ Rge. 2 E
Elev. _____

100' S 100' E NWc NW NE SW

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (ft)	To (ft)
6	BLACK PE 18.97	0	42

16. Size hole below casing: 6 in.
17. Static level 45 ft. below casing top which is 1 ft. above ground level. Pumping level 45 ft. when pumping at 10 gpm for 2 hours.

18. Formations passed through	Thickness	Bottom
clay	5	5
sandy clay & gravel	15	20
limestone	80	100
sandstone	20	120

Winnebago 12-201-27991-00 07-46N-02E

Winnebago 12-201-[redacted]-00 07-46N-02E

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Mays, Howard Well No. #1
    Address 800 Clark St. South Beloit IL
    Driller Greenfield, Edwin D. License No. 102-2714
11. Permit No. 75979 Date 06/22/78
12. Water from sand 13. County Winnebago
    at depth 95 to 97 ft. Sec. 7
14. Screen: Diam. 4 in. Twp. 46 N
    Length: 2 ft. Slot 20 Rge. 2 E
    Elev. ____

100' N 100' W SEc NE SW SW

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (ft)	To (ft)
4	BLACK STEEL 11 LB/FT	0	95
4	STAINLESS SCREEN	95	97

16. Size hole below casing: _____ in.
17. Static level 40 ft. below casing top which is 1 ft. above ground level. Pumping level 50 ft. when pumping at 10 gpm for 4 hours.

18. Formations passed through	Thickness	Bottom
black dirt	2	2
sand & gravel	95	97

Winnebago 12-201-27996-00 07-46N-02E

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Speich, Lawrence Well No. _____
Address 432 Whittmore Dr. South Beloit IL
Driller Greenfield, Edwin D. License No. 102-2714
11. Permit No. 90777 Date 10/19/79
12. Water from sand 13. County Winnebago
at depth 68 to 70 ft. Sec. 7
14. Screen: Diam. 4 in. Twp. 46 N
Length: 2 ft. Slot 20 Rge. 2 E
Elev. _____

100' S 100' E NWc SW NE SW

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (ft)	To (ft)
4	BLACK PE 10.79	0	68
4	JOHNSON SS SCREEN	68	70

16. Size hole below casing: _____ in.
17. Static level 50 ft. below casing top which is 1 ft. above ground level. Pumping level 52 ft. when pumping at 10 gpm for 3 hours.

18. Formations passed through	Thickness	Bottom
soil	2	2
sand & gravel	38	40
sand	30	70

Winnebago 12-201-28002-00 07-46N-02E

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Amwood Homes Well No. _____
Address Talcott Ct. South Beloit IL
Driller Bull, Jack D. License No. 92-6063
11. Permit No. 97186 Date 11/06/80
12. Water from rock 13. County Winnebago
at depth 67 to 125 ft. Sec. 7
14. Screen: Diam. _____ in. Twp. 46 N
Length: _____ ft. Slot _____ Rge. 2 E
Elev. _____

NE SW SW

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (ft)	To (ft)
5	.258 BLACK	0	41

16. Size hole below casing: 5 in.
17. Static level 67 ft. below casing top which is 1 ft. above ground level. Pumping level 72 ft. when pumping at 12 gpm for 6 hours.

18. Formations passed through	Thickness	Bottom
top soil	4	4
gravel	17	21
sand, clay	19	40
yellow limestone	85	125

Winnebago 12-201-27990-00 07-46N-02E

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Collins, Laverne Well No. _____
Address 460 Collins Dr. South Beloit IL
Driller Greenfield, Edwin D. License No. 102-2714
11. Permit No. 114799 Date 09/14/84
12. Water from sand 13. County Winnebago
at depth 64 to 66 ft. Sec. 7
14. Screen: Diam._____in. Twp. 46 N
Length:_____ft. Slot _____ Rge. 2 E
Elev. _____

100' N 100' E SWc NE SE SW

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (ft)	To (ft)
4	BLACK PE 10.79	0	64
4	JOHNSON SS SCREEN	64	66

16. Size hole below casing: _____in.
17. Static level 45 ft. below casing top which is 1 ft. above ground level. Pumping level 47 ft. when pumping at 10 gpm for 3 hours.

18. Formations passed through	Thickness	Bottom
soil	1	1
sand & gravel	39	40
sand	26	66

Winnebago 12-201-27992-00 07-46N-02E

LOG OF WATER WELL

Property owner St. Andrews Church Well No. 1

Drilled by Blayer Well Co Year 1965

Formations passed through	Thickness	Depth of Bottom
sand & gravel	15	15
sand	57	72

COUNTY No. 2014

[Continue on back if necessary]

Finished in sand at 70 to 72 ft.

Cased with 4 inch Blk Stl. from 0 to 70 ft.

and 4 inch screen from 70 to 72 ft.

Size hole below casing _____ inch. Static level from surf. 47 ft.

Tested capacity 10 gal. per min. Temperature _____ °F.

Water lowered to 49 ft. _____ in. in 1 hrs. _____ min.

Length of test 3 hrs. _____ min. Screen Johnson

Slot 20 Diam. 4" Length 2' Bottom set at 72 ft.

[Show location in Section Plat]

Township name Rockford Elev. _____ Sec. 18

Description of location SW¼ of SW¼ Twp. 46 N

Sec. 18 T46N R2E Rge. 2E

Signed Ron Wenzel County Winnebago

WINNEBAGO

Copy for Illinois State Geological Survey Index: 18-46N-2E

GEOLOGICAL AND WATER SURVEY WELL RECORD

Compl. 9/4/75

10. Property owner ROCKFORD METAL STRUCTURES Well No. _____
Address 10540 N. 2nd St
Driller J. HINKLE License No. 102-189
11. Permit No. 40693 Date 8-29-75
12. Water from SAND & GRAVEL Formation 13. County WINN
at depth 70 to 128 ft. Sec. 18
14. Screen: Diam. 6 in. Twp. 46N
Length: 3 ft. Slot 25 Rge. 2E
Elev. _____

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
6	T&C 19 lb	0	125

SHOW LOCATION IN SECTION PLAT
SE SW SW
(permit)

16. Size Hole below casing: 6 in.
17. Static level 70 ft. below casing top which is 1 ft. above ground level. Pumping level 80 ft. when pumping at 15 gpm for 5 hours. Sub. pump set at 95'

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
TOP SOIL	5	5
SAND	20	25
CLAY	10	35
CLAY & SAND	15	50
SAND	40	90
SAND & GRAVEL	38	128

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED James A. Hinkle DATE 12-1-75

COUNTY No. 23542

WINNEBAGO 18 46N-2E

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 12-12

10. Property owner Harold Crows Well No. _____
Address 13629 Bigland Rockton
Driller Ed Greenfield License No. 92582
11. Permit No. 43680 Date Dec. 9
12. Water from Sand (Formation) 13. County Winnebago
at depth 64 to 66 ft. Sec. 18
14. Screen: Diam. 4 in. Twp. 46N
Length: 2 ft. Slot 15 Rge. 2E
Elev. _____

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
4	Blk. P.E. 11#	0	64
4	Johnson SS screen	64	66

SHOW LOCATION IN SECTION PLAT
100'SL 100'WL
NW SW SW
(permit)

16. Size Hole below casing: _____ in.
17. Static level 48 ft. below casing top which is 1 ft. above ground level. Pumping level 50 ft. when pumping at 10 gpm for 3 hours. Sub. pump set at 56'.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
soil	2	2
sand + gravel	23	25
sand	41	66

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Ed Greenfield DATE Jan. 9-76

COUNTY No. 23734

WINNEBAGO 18-46N-[illegible]

GEOLOGICAL AND WATER SURVEY

Completed 7-14-76

10. Property owner BENNETT CORP. Well No. 1CC9
Address LOT #41 SUNDANCE ACRES
Driller JESSIE BEAMAN License No. 92-549
11. Permit No. 48137 Date 6-4-76
12. Water from SAND GRAVEL (Formation) 13. County WINN
at depth 63 to 67 ft.
14. Screen: Diam. 4 in.
Length: 4 ft. Slot 25

Sec. 18
Twp. 46N
Rge. 2E
Elev. ____

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5	15.00 BLACK	0	63

SHOW LOCATION IN SECTION PLAT
Lot #41 in Sundance Acres S.d:
SE SW (permit)

16. Size Hole below casing: 14 in.
17. Static level 46 ft. below casing top which is 1 ft. above ground level. Pumping level 44 ft. when pumping at 10 gpm for 2 hours. Sub. pump set at 60'.

18. FORMATIONS PASSED THROUGH	~~THICKNESS~~ TOP	DEPTH OF BOTTOM
BLACK DIRT	0	3
COARSE SAND GRAVEL	3	45
FINE SAND GRAVEL	45	60
COARSE SAND GRAVEL	60	67

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Jessie Beaman DATE 7-30-76

WINNEBAGO COUNTY No. 24282 18-46N-2E

GEOLOGICAL AND WATER SUPPLY WELL RECORD

Completed 7-15-76

10. Property owner BENNETT CORP. Well No. 1C1C
Address LOT 44 SUNDANCE ACRES
Driller JESSIE BEAMAN License No. 92-591
11. Permit No. 48126 Date 6-4-76
12. Water from SAND & GRAVEL (Formation) 13. County WINN
at depth 73 to 77 ft.
14. Screen: Diam. 4 in.
Length: 4 ft. Slot 25
Sec. 18
Twp. 46N
Rge. 2E
Elev. ____

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5	15 GA BLACK	0	73

SHOW LOCATION IN SECTION PLAT

Lot #44 Sundance Acres S.d.
SE SW (permit)

16. Size Hole below casing: 4 in.
17. Static level 46 ft. below casing top which is 1 ft. above ground level. Pumping level 55 ft. when pumping at 10 gpm for 2 hours. Sub. pump set at 65'.

18. FORMATIONS PASSED THROUGH	~~THICKNESS~~ TOP	DEPTH OF BOTTOM
BLACK DIRT	0	3
COURSE SAND GRAVEL	3	45
FINE SAND GRAVEL	45	73
COURSE SAND GRAVEL	73	77

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Jessie Beaman DATE 7-20-76

COUNTY No. 24281

WINNEBAGO 18-46N-2?

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 7-17-76

10. Property owner BENNETT CONST Well No. 1008
Address #5 SUNDANCE ACRES
Driller JESSIE BEAMAN License No. 92-599
11. Permit No. 48138 Date 6-4-76
12. Water from SAND GRAVEL 13. County WINN
Formation
at depth 76 to 80 ft. Sec. 18
14. Screen: Diam. 4 in. Twp. 46N
Length: 4 ft. Slot 25 Rge. 2E
Elev. ____

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5	15.00 BLACK	0	76

SHOW LOCATION IN SECTION PLAT
Lot #5 Sundance Acres S.d. SE SW (permit)

16. Size Hole below casing: 4 in.
17. Static level 56 ft. below casing top which is 1 ft. above ground level. Pumping level 60 ft. when pumping at 10 gpm for 2 hours. Sub. pump set at 70'.

18. FORMATIONS PASSED THROUGH	~~THICKNESS~~ TOP	DEPTH OF BOTTOM
BLACK DIRT	0	3
COURSE SAND GRAVEL	3	45
FINE SAND GRAVEL	45	70
COURSE SAND GRAVEL	70	80

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Jessie Beaman DATE 7/30/76

COUNTY No. 24283

WINNEBAGO 18-46N-2E

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 1-7-77

10. Property owner Dave Tresemer Well No. 651-7698
Address #8 Sundance Sub.
Driller Olson Well Co. License No. 102-93
11. Permit No. 54681 Date 11/15/76
12. Water from gravel (Formation) 13. County Winn.
at depth 74 to 85 ft.
14. Screen: Diam. 5 in.
Length: 2 ft. Slot 15

Sec. 18
Twp. 46N
Rge. 2E
Elev.

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5	15 steel	0	85

SHOW LOCATION IN SECTION PLAT
SE SE SW
(permit)

16. Size Hole below casing: 5 in.
17. Static level 55 ft. below casing top which is 1 ft. above ground level. Pumping level 70 ft. when pumping at 15 gpm for 1 hours. Sub. pump set at 70'.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
topsoil	1	1
sand & gravel	43	44
sand	30	74
gravel	11	85

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED [signature] DATE 1/19/77

WINNEBAGO COUNTY No. 24285 18-46N-2E

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 1-10-77

10. Property owner Dave Tresemer Well No. 633-7678
Address Lot #1 Sundance Slb
Driller Olson Well Co. License No. 102-93
11. Permit No. 52670 Date 9/24/76
12. Water from gravel (Formation) 13. County Winn.
at depth 72 to 85 ft. Sec. 18
14. Screen: Diam. 5 in. Twp. 46N
Length: 2 ft. Slot 25 Rge. 2E
Elev.

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5	15 steel	0	85

SHOW LOCATION IN SECTION PLAT
SE SE SW
(permit)

16. Size Hole below casing: 5 in.
17. Static level 55 ft. below casing top which is 1 ft. above ground level. Pumping level 60 ft. when pumping at 15 gpm for 1 hours. Sub. pump set at 70'.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
topsoil	2	2
sand & gravel	40	42
sand	30	72
gravel	13	85

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Robert Olson DATE 1/18/77

WINNEBAGO COUNTY No. 24284 18-46N-2E

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Campbell, Milton Well No. _____
Address 353 W. Rockton Rockton IL
Driller Greenfield, Edwin D. License No. 092-582
11. Permit No. 83025 Date 12/22/78
12. Water from sand 13. County Winnebago
at depth 69 to 71 ft.
14. Screen: Diam. _____ in.
Length: _____ ft. Slot _____

Sec. 18
Twp. 46 N
Rge. 2 E
Elev. _____

100' N 100' W SEc SW

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (ft)	To (ft)
4	BLK P.E. 11#	0	69
4	SS SCREEN	69	71

16. Size hole below casing: _____ in.
17. Static level 55 ft. below casing top which is 1 ft. above ground level. Pumping level 57 ft. when pumping at 10 gpm for 3 hours.

18. Formations passed through	Thickness	Bottom
soil	2	2
sand & gravel	53	55
sand	16	71

Winnebago 12-201-28193-00 18-46N-02E

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Three Hammers Construction Well No. _____
Address 515 Chicory St. Rockford IL
Driller Beaman, Jessie J. License No. 092-5990
11. Permit No. 89839 Date 09/28/79
12. Water from sand & gravel 13. County Winnebago
at depth 66 to 70 ft.
14. Screen: Diam. 4 in.
Length: 5 ft. Slot 20

Sec. 18
Twp. 46 N
Rge. 2 E
Elev. _____

SE SE SW

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (ft)	To (ft)
5	15# BLACK	0	66

16. Size hole below casing: 4 in.
17. Static level 45 ft. below casing top which is 1 ft. above ground level. Pumping level 50 ft. when pumping at 10 gpm for 2 hours.

18. Formations passed through	Thickness	Bottom
black dirt	3	3
lyrs fn sand & gvl	67	70

Winnebago 12-201-28229-00 18-46N-02E

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Three Hammers Construction Well No. _____
Address 11405 Main St. Roscoe IL
Driller Beaman, Jessie J. License No. 092-5990
11. Permit No. 99042 Date 04/03/81
12. Water from sand & gravel 13. County Winnebago
at depth 73 to 77 ft.
14. Screen: Diam. 4 in.
Length: 5 ft. Slot 20

Sec. 18
Twp. 46 N
Rge. 2 E
Elev. _____

NE SE SW

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (ft)	To (ft)
5	15# BLACK	0	74

16. Size hole below casing: 4 in.
17. Static level 40 ft. below casing top which is 1 ft. above ground level. Pumping level 45 ft. when pumping at 20 gpm for 2 hours.

18. Formations passed through	Thickness	Bottom
black dirt	3	3
sand & gravel	15	18
fine sand	20	38
medium sand & gravel	39	77

Winnebago 12-201-28227-00 18-46N-02E

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Crays, Harold Well No. _____
Address 13629 Aspland Dr. Rockton IL
Driller Greenfield, Edwin D. License No. 102-2714
11. Permit No. 103622 Date 05/27/82
12. Water from sand 13. County Winnebago
at depth 69 to 71 ft. Sec. 18
14. Screen: Diam. 4 in. Twp. 46 N
Length: 2 ft. Slot 20 Rge. 2 E
Elev. _____

100' S 100' E NWc SE SW

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (ft)	To (ft)
4	BLK STEEL 11#	0	69
4	SS SCREEN	69	71

16. Size hole below casing: _____ in.
17. Static level 40 ft. below casing top which is 1 ft. above ground level. Pumping level 50 ft. when pumping at 10 gpm for 4 hours.

18. Formations passed through	Thickness	Bottom
sand & gravel	71	71

Winnebago 12-201-28194-00 18-46N-02E

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Amwood Homes Well No. _____
Address 12856 Duncan Lane Rockton IL
Driller Hinkle, James A. License No. 102-1898
11. Permit No. 104942 Date 09/22/82
12. Water from drift 13. County Winnebago
at depth 40 to 68 ft. Sec. 18
14. Screen: Diam. 5 in. Twp. 46 N
Length: 2 ft. Slot 20 Rge. 2 E
Elev. _____

	•	

15. Casing and Liner Pipe NE NW SW

Diam. (in.)	Kind and Weight	From (ft)	To (ft)
5	T&C 15#	0	68

16. Size hole below casing: 5 in.
17. Static level 40 ft. below casing top which is 1 ft. above ground level. Pumping level 40 ft. when pumping at 10 gpm for 4 hours.

18. Formations passed through	Thickness	Bottom
top soil	5	5
sand	20	25
sand & gravel	43	68

Winnebago 12-201-28188-00 18-46N-02E

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Veterans Administration Well No. _____
Address 536 S. Clark St. Chicago IL
Driller Beaman, John A. License No. 092-6022
11. Permit No. 105651 Date 11/17/82
12. Water from rock 13. County Winnebago
at depth _____ to 240 ft.
14. Screen: Diam. _____ in.
Length: _____ ft. Slot _____

Sec. 18
Twp. 46 N
Rge. 2 E
Elev. _____

NW SW NW

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (ft)	To (ft)
5	15# T&C BLACK	0	225

16. Size hole below casing: 5 in.
17. Static level 60 ft. below casing top which is 1 ft. above ground level. Pumping level 65 ft. when pumping at 10 gpm for 2 hours.

18. Formations passed through	Thickness	Bottom
top soil	10	10
sand & gravel	70	80
blue clay	20	100
sand & gravel	50	150
blue clay	75	225
sandstone	15	240

Winnebago 12-201-28240-00 18-46N-02E

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Three Hammers Construction Well No. _____
Address 9201 Starboard Dr. Roscoe IL
Driller Beaman, Jessie J. License No. 092-5990
11. Permit No. 125759 Date 08/15/86
12. Water from sand & gravel 13. County Winnebago
at depth 72 to 75 ft. Sec. 18
14. Screen: Diam. 4 in. Twp. 46 N
Length: 5 ft. Slot 18 Rge. 2 E
Elev. _____

SE SW SW

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (ft)	To (ft)
5	15# BLACK	0	72

16. Size hole below casing: 4 in.
17. Static level 30 ft. below casing top which is 1 ft. above ground level. Pumping level 35 ft. when pumping at 10 gpm for 2 hours.

18. Formations passed through	Thickness	Bottom
black dirt	2	2
gravel	25	27
sand	25	52
sand & gravel	23	75

Winnebago 12-201-26169-00 18-46N-02E

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Stone, Larry Well No. _____
Address Anulet Dr. Rockton IL
Driller Bull, Jack D. License No. 092-6063
11. Permit No. 128123 Date 11/17/86
12. Water from sand, gravel 13. County Winnebago
at depth 48 to 69 ft.
14. Screen: Diam. 4 in.
Length: 3 ft. Slot .015

Sec. 18
Twp. 46 N
Rge. 2 E
Elev. _____

SE SE SW

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (ft)	To (ft)
5	.258 BLACK	0	66

16. Size hole below casing: _____ in.
17. Static level 48 ft. below casing top which is 1 ft. above ground level. Pumping level 55 ft. when pumping at 12 gpm for 6 hours.

18. Formations passed through	Thickness	Bottom
top soil	7	7
sand, gravel	62	69

Winnebago 12-201-26299-00 18-46N-02E

B

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WATER WELL SEALING FORMS

1526892

WATER WELL SEALING FORM

Illinois Department of Public Health
525 West Jefferson Street
Springfield, Illinois 62761

GB1

This form shall be submitted to this Department not more than 30 days after a potable water well, boring or monitoring well is sealed. Such wells are to be sealed not more than 30 days after they are abandoned in accordance with the sealing requirements in the Water Well Construction Code.

1. Ownership (Name of Controlling Party) Beloit Corporation
2. Well Location: 1315 N. Blackhawk Blvd. (Address - Lot #)
   Rockton (City) Winnebago (County)
   General Description: Section 13 Township 46N
   Range 1E
3. Year Drilled 1992
4. Drilling Permit No. (and date, if known) _____
5. Type of Well: Bored _____ Drilled X Other _____
6. Total Depth 100 ft Diameter (inches) 9.0
7. Formation clear of obstruction X yes _____ no
   If no, depth - location of obstruction _____
8. DETAILS OF PLUGGING*
   Filled with Topsoil (Cement or other Materials) From 0 To 1 feet
   Kind of plug Granular Bentonite From 1 To 14.7 feet
   Filled with Bentonite Slurry From 14.7 To 86.0 feet
   Kind of plug Natural Cave From 86.0 To 100.0 feet
   Filled with _____ From _____ To _____ feet
   Kind of plug _____ From _____ To _____ feet
9. CASING RECORD
   Upper 3 feet of casing removed NA Yes _____ No _____
   If well casing consists of brick, stone, concrete blocks, porous tile, or other porous material, casing was removed to a depth of 10 feet below the surface. Yes _____ No _____
10. Date Well was Sealed 07 (month) 21 (day) 92 (year)
11. Licensed water well driller or other person approved by the Department performing well sealing
    Layne Northwest (Name)
    W229 N5005 Duplainville Rd., Pewaukee (City) WI (State) (Address)
    _____ (License Number)

Important Notice
This State Agency is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under Public Act 83-1041. Disclosure of this information is mandatory. This form has been approved by the Forms Management Center.

IL 482-0631

WATER WELL SEALING FORM

1526892

Illinois Department of Public Health
525 West Jefferson Street
Springfield, Illinois 62761

DB1

This form shall be submitted to this Department not more than 30 days after a potable water well, boring or monitoring well is sealed. Such wells are to be sealed not more than 30 days after they are abandoned in accordance with the sealing requirements in the Water Well Construction Code.

1. Ownership (Name of Controlling Party) Beloit Corporation
2. Well Location: 1165 Prairie Hill Rd.
   Address - Lot #
   Rockton — City — Winnebago — County
   General Description: Section 13 Township 46N
   Range 1E
3. Year Drilled 1992
4. Drilling Permit No. (and date, if known) _____
5. Type of Well: Bored _____ Drilled X Other _____
6. Total Depth 98 ft Diameter (inches) 0-81, 6.0; 81-98, 5.0
7. Formation clear of obstruction X yes _____ no
   If no, depth - location of obstruction _____
8. DETAILS OF PLUGGING*
   Filled with Granular Bentonite (Cement or other Materials) From 0.0 To 14.0 feet
   Kind of plug Bentonite Slurry From 14.0 To 88.3 feet
   Filled with Natural Cave From 88.3 To 98.0 feet
   Kind of plug _____ From _____ To _____ feet
   Filled with _____ From _____ To _____ feet
   Kind of plug _____ From _____ To _____ feet
9. CASING RECORD
   Upper 3 feet of casing removed NA Yes _____ No _____
   If well casing consists of brick, stone, concrete blocks, porous tile, or other porous material, casing was removed to a depth of 10 feet below the surface. Yes _____ No _____
10. Date Well was Sealed 07 (month) 31 (day) 92 (year)
11. Licensed water well driller or other person approved by the Department performing well sealing
    Layne Northwest
    Name
    W229 N5005 Duplainville Rd., Pewaukee, WI
    Address — City — State
    License Number

Important Notice
This State Agency is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under Public Act 85-1041. Disclosure of this information is mandatory. This form has been approved by the Forms Management Center.

IL 482-0631

WATER WELL SEALING FORM

1526892

Illinois Department of Public Health
525 West Jefferson Street
Springfield, Illinois 62761

DB2

This form shall be submitted to this Department not more than 30 days after a potable water well, boring or monitoring well is sealed. Such wells are to be sealed not more than 30 days after they are abandoned in accordance with the sealing requirements in the Water Well Construction Code.

1. Ownership (Name of Controlling Party) Beloit Corporation
2. Well Location: 1165 Prairie Hill Rd.
   Address - Lot #
   Rockton — City; Winnebago — County

   General Description: Section 13 Township 46N
   Range 1E
3. Year Drilled 1992
4. Drilling Permit No. (and date, if known) _____
5. Type of Well: Bored _____ Drilled X Other _____
6. Total Depth 103 ft Diameter (inches) 5.0
7. Formation clear of obstruction X yes _____ no
   If no, depth - location of obstruction _____
8. DETAILS OF PLUGGING*
   Filled with Chipped Bentonite (Cement or other Materials) From 0.0 To 14.0 feet
   Kind of plug Bentonite Slurry From 14.0 To 93.3 feet
   Filled with Natural Cave From 93.3 To 103.0 feet
   Kind of plug _____ From _____ To _____ feet
   Filled with _____ From _____ To _____ feet
   Kind of plug _____ From _____ To _____ feet
9. CASING RECORD
   Upper 3 feet of casing removed NA Yes _____ No _____
   If well casing consists of brick, stone, concrete blocks, porous tile, or other porous material, casing was removed to a depth of 10 feet below the surface. Yes _____ No _____
10. Date Well was Sealed 08 (month) 04 (day) 92 (year)
11. Licensed water well driller or other person approved by the Department performing well sealing
    Layne Northwest
    Name
    W229 N5005 Duplainville Rd., Pewaukee, WI
    Address — City — State
    License Number

Important Notice
This State Agency is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under Public Act 85-1041. Disclosure of this information is mandatory. This form has been approved by the Forms Management Center.

IL 482-0631

1526892

WATER WELL SEALING FORM

Illinois Department of Public Health
525 West Jefferson Street
Springfield, Illinois 62761

DB3

This form shall be submitted to this Department not more than 30 days after a potable water well, boring or monitoring well is sealed. Such wells are to be sealed not more than 30 days after they are abandoned in accordance with the sealing requirements in the Water Well Construction Code.

1. Ownership (Name of Controlling Party) Beloit Corporation
2. Well Location: 900 Watts Ave. (address - lot #)
   Rockton (city) Winnebago (county)
   General Description: Section 13 Township 46N
   Range 1E
3. Year Drilled 1992
4. Drilling Permit No. (and date, if known) _____
5. Type of Well: Bored _____ Drilled X Other _____
6. Total Depth 159 ft Diameter (inches) 5.0
7. Formation clear of obstruction X yes _____ no
   If no, depth - location of obstruction _____
8. DETAILS OF PLUGGING*
   Filled with Chipped Bentonite (cement or other materials) From 0 To 21.0 feet
   Kind of plug Bentonite Slurry From 21.0 To 157.9 feet
   Filled with Natural Cave From 157.9 To 159.0 feet
   Kind of plug _____ From _____ To _____ feet
   Filled with _____ From _____ To _____ feet
   Kind of plug _____ From _____ To _____ feet
9. CASING RECORD
   Upper 3 feet of casing removed NA Yes _____ No _____
   If well casing consists of brick, stone, concrete blocks, porous tile, or other porous material, casing was removed to a depth of 10 feet below the surface. Yes _____ No _____
10. Date Well was Sealed 08 (month) 13 (day) 92 (year)
11. Licensed water well driller or other person approved by the Department performing well sealing
    Layne Northwest (name)
    W229 N5005 Duplainville Rd., Pewaukee, WI (address, city, state)
    _____ (License Number)

Important Notice
This State Agency is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under Public Act 83-0441. Disclosure of this information is mandatory. This form has been approved by the Forms Management Center.

IL 482-0631

1526892

WATER WELL SEALING FORM

Illinois Department of Public Health
525 West Jefferson Street
Springfield, Illinois 62761

IB1

This form shall be submitted to this Department not more than 30 days after a potable water well, boring or monitoring well is sealed. Such wells are to be sealed not more than 30 days after they are abandoned in accordance with the sealing requirements in the Water Well Construction Code.

1. Ownership (Name of Controlling Party) Beloit Corporation
2. Well Location: 1314 Watts Ave. (Address - Lot #)
   Rockton (City) Winnebago (County)

   General Description: Section 13 Township 46N
   Range 1E
3. Year Drilled 1992
4. Drilling Permit No. (and date, if known) _____
5. Type of Well: Bored _____ Drilled X Other _____
6. Total Depth 69 ft Diameter (inches) 5.0
7. Formation clear of obstruction X yes _____ no
   If no, depth - location of obstruction _____
8. DETAILS OF PLUGGING*
   Filled with Natural Soils (Cement or other Materials) From 0 To 0.5 feet
   Kind of plug Chipped Bentonite From 0.5 To 57.0 feet
   Filled with Natural Cave From 57.0 To 69.0 feet
   Kind of plug _____ From _____ To _____ feet
   Filled with _____ From _____ To _____ feet
   Kind of plug _____ From _____ To _____ feet
9. CASING RECORD
   Upper 3 feet of casing removed NA Yes _____ No _____
   If well casing consists of brick, stone, concrete blocks, porous tile, or other porous material, casing was removed to a depth of 10 feet below the surface. Yes _____ No _____
10. Date Well was Sealed 08 (month) 14 (day) 92 (year)
11. Licensed water well driller or other person approved by the Department performing well sealing
    Layne Northwest (Name)
    W229 N5005 Duplainville Rd., Pewaukee, WI (Address, City, State)
    _____ (License Number)

Important Notice
This State Agency is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under Public Act 85-1361. Disclosure of this information is mandatory. This form has been approved by the Forms Management Center.

IL 482-0631

1526892

WATER WELL SEALING FORM

Illinois Department of Public Health
525 West Jefferson Street
Springfield, Illinois 62761

W3

This form shall be submitted to this Department not more than 30 days after a potable water well, boring or monitoring well is sealed. Such wells are to be sealed not more than 30 days after they are abandoned in accordance with the sealing requirements in the Water Well Construction Code.

1. Ownership (Name of Controlling Party) Beloit Corporation
2. Well Location: 1165 Prairie Hill Rd. (address - lot #)
   Rockton (city) Winnebago (county)

   General Description: Section 13 Township 46N

   Range 1E
3. Year Drilled 1983
4. Drilling Permit No. (and date, if known) _____
5. Type of Well: Bored _____ Drilled X Other _____
6. Total Depth 35.6 ft Diameter (inches) 2.0
7. Formation clear of obstruction X yes _____ no

   If no, depth - location of obstruction _____
8. DETAILS OF PLUGGING*

   Filled with Granular Bentonite (Cement or other Materials) From 0 To 9.2 feet

   Kind of plug Neat Cement Grout From 9.2 To 35.6 feet

   Filled with _____ From _____ To _____ feet

   Kind of plug _____ From _____ To _____ feet

   Filled with _____ From _____ To _____ feet

   Kind of plug _____ From _____ To _____ feet
9. CASING RECORD

   Upper 3 feet of casing removed X Yes _____ No _____

   If well casing consists of brick, stone, concrete blocks, porous tile, or other porous material, casing was removed to a depth of 10 feet below the surface. Yes _____ No _____
10. Date Well was Sealed 07 (month) 24 (day) 92 (year)
11. Licensed water well driller or other person approved by the Department performing well sealing

    Layne Northwest (Name)

    W229 N5005 Duplainville Rd., Pewaukee, WI (Address, City, State)

    _____ (License Number)

Important Notice
This State Agency is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under Public Act 83-1341. Disclosure of this information is mandatory. This form has been approved by the Forms Management Center.

IL 482-0631

1526892

WATER WELL SEALING FORM

Illinois Department of Public Health
525 West Jefferson Street
Springfield, Illinois 62761

W5

This form shall be submitted to this Department not more than 30 days after a potable water well, boring or monitoring well is sealed. Such wells are to be sealed not more than 30 days after they are abandoned in accordance with the sealing requirements in the Water Well Construction Code.

1. Ownership (Name of Controlling Party) Beloit Corporation
2. Well Location: 1165 Prairie Hill Rd. (Address - Lot #)
   Rockton (City) Winnebago (County)

   General Description: Section 13 Township 46N
   Range 1E
3. Year Drilled 1984
4. Drilling Permit No. (and date, if known) _____
5. Type of Well: Bored _____ Drilled X Other _____
6. Total Depth 51 ft Diameter (inches) 2.0
7. Formation clear of obstruction X yes _____ no
   If no, depth - location of obstruction _____
8. DETAILS OF PLUGGING*
   Filled with Granular Bentonite (Cement or other Materials) From 0 To 7.8 feet
   Kind of plug Neat Cement Grout From 7.8 To 51.0 feet
   Filled with _____ From _____ To _____ feet
   Kind of plug _____ From _____ To _____ feet
   Filled with _____ From _____ To _____ feet
   Kind of plug _____ From _____ To _____ feet
9. CASING RECORD
   Upper 3 feet of casing removed X Yes _____ No _____
   If well casing consists of brick, stone, concrete blocks, porous tile, or other porous material, casing was removed to a depth of 10 feet below the surface. Yes _____ No _____
10. Date Well was Sealed 07 (month) 24 (day) 92 (year)
11. Licensed water well driller or other person approved by the Department performing well sealing
    Layne Northwest (Name)
    W229 N5005 Duplainville Rd., Pewaukee, WI (Address, City, State)
    _____ (License Number)

Important Notice
This State Agency is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under Public Act 77-2761. Disclosure of this information is mandatory. This form has been approved by the Forms Management Center.

IL 482-0631

1526892

WATER WELL SEALING FORM

Illinois Department of Public Health
525 West Jefferson Street
Springfield, Illinois 62761

W-8 (W-6)

This form shall be submitted to this Department not more than 30 days after a potable water well, boring or monitoring well is sealed. Such wells are to be sealed not more than 30 days after they are abandoned in accordance with the sealing requirements in the Water Well Construction Code.

1. Ownership (Name of Controlling Party) Beloit Corporation
2. Well Location: Hwy 2 and Prairie Hill Road (Address - Lot #)
   Rockton (City) Winnebago (County)

   General Description: Section 18 Township 46N
   Range 2E
3. Year Drilled 1984
4. Drilling Permit No. (and date, if known) _____
5. Type of Well: Bored _____ Drilled X Other _____
6. Total Depth 54 ft Diameter (inches) 2"
7. Formation clear of obstruction X yes _____ no
   If no, depth - location of obstruction _____
8. DETAILS OF PLUGGING*
   Filled with Cement Bentonite Grout (Cement or other Materials) From 0 To 54 feet
   Kind of plug _____ From _____ To _____ feet
   Filled with _____ From _____ To _____ feet
   Kind of plug _____ From _____ To _____ feet
   Filled with _____ From _____ To _____ feet
   Kind of plug _____ From _____ To _____ feet
9. CASING RECORD
   Upper 3 feet of casing removed X Yes _____ No _____ All of well casing was removed.
   If well casing consists of brick, stone, concrete blocks, porous tile, or other porous material, casing was removed to a depth of 10 feet below the surface. Yes _____ No _____
10. Date Well was Sealed 08 (month) 04 (day) 92 (year)
11. Licensed water well driller or other person approved by the Department performing well sealing
    Layne Northwest (Name)
    W229 N5005 Duplainville Rd., Pewaukee, WI (Address, City, State)
    (License Number)

Important Notice
This State Agency is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under Public Act [illegible]. Disclosure of this information is mandatory. This form has been approved by the Forms Management Center.

IL 482-0631

1526892

WATER WELL SEALING FORM

Illinois Department of Public Health
525 West Jefferson Street
Springfield, Illinois 62761

W11 (P-6A)

This form shall be submitted to this Department not more than 30 days after a potable water well, boring or monitoring well is sealed. Such wells are to be sealed not more than 30 days after they are abandoned in accordance with the sealing requirements in the Water Well Construction Code.

1. Ownership (Name of Controlling Party) Beloit Corporation
2. Well Location: Hwy 2 and Prairie Hill Rd. (Address - Lot #)
   Rockton (City) Winnebago (County)

   General Description: Section 18 Township 46N
   Range 2E
3. Year Drilled 1984
4. Drilling Permit No. (and date, if known) _____
5. Type of Well: Bored _____ Drilled X Other _____
6. Total Depth 62 ft Diameter (inches) 2"
7. Formation clear of obstruction X yes _____ no
   If no, depth - location of obstruction _____
8. DETAILS OF PLUGGING*
   Filled with Cement Bentonite Grout (Cement or other Materials) From 0 To 62 feet
   Kind of plug _____ From _____ To _____ feet
   Filled with _____ From _____ To _____ feet
   Kind of plug _____ From _____ To _____ feet
   Filled with _____ From _____ To _____ feet
   Kind of plug _____ From _____ To _____ feet
9. CASING RECORD All of well casing was removed.
   Upper 3 feet of casing removed X Yes _____ No _____
   If well casing consists of brick, stone, concrete blocks, porous tile, or other porous material, casing was removed to a depth of 10 feet below the surface. Yes _____ No _____
10. Date Well was Sealed 08 (month) 04 (day) 92 (year)
11. Licensed water well driller or other person approved by the Department performing well sealing
    Layne Northwest (Name)
    W229 N5005 Duplainville Rd., Pewaukee, WI (Address, City, State)
    (License Number)

Important Notice
This State Agency is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under Public Act 83-1041. Disclosure of this information is mandatory. This form has been approved by the Forms Management Center.

IL 482-0631

1526892

WATER WELL SEALING FORM

Illinois Department of Public Health
525 West Jefferson Street
Springfield, Illinois 62761

W16

This form shall be submitted to this Department not more than 30 days after a potable water well, boring or monitoring well is sealed. Such wells are to be sealed not more than 30 days after they are abandoned in accordance with the sealing requirements in the Water Well Construction Code.

1. Ownership (Name of Controlling Party) Beloit Corporation
2. Well Location: 1165 Prairie Hill Rd.
   (Address - Lot #)
   Rockton (City) Winnebago (County)

   General Description: Section 12 Township 46N

   Range 1E
3. Year Drilled 1987
4. Drilling Permit No. (and date, if known) _____
5. Type of Well: Bored _____ Drilled X Other _____
6. Total Depth 30 ft Diameter (Inches) 2.0
7. Formation clear of obstruction X yes _____ no

   If no, depth - location of obstruction _____
8. DETAILS OF PLUGGING*

   Filled with Granular Bentonite (Cement or other Material) From 0 To 30.0 feet

   Kind of plug _____ From _____ To _____ feet

   Filled with _____ From _____ To _____ feet

   Kind of plug _____ From _____ To _____ feet

   Filled with _____ From _____ To _____ feet

   Kind of plug _____ From _____ To _____ feet
9. CASING RECORD

   Upper 3 feet of casing removed X Yes _____ No _____ All of well casing was removed.

   If well casing consists of brick, stone, concrete blocks, porous tile, or other porous material, casing was removed to a depth of 10 feet below the surface. Yes _____ No _____
10. Date Well was Sealed 08 (month) 19 (day) 92 (year)
11. Licensed water well driller or other person approved by the Department performing well sealing

    Layne Northwest
    (Name)

    W229 N5005 Duplainville Rd., Pewaukee, WI
    (Address) (City) (State)

    (License Number)

Important Notice
This State Agency is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under Public Act 83-1041. Disclosure of this information is mandatory. This form has been approved by the Forms Management Center.

IL 482-0631

WATER WELL SEALING FORM

Illinois Department of Public Health
525 West Jefferson Street
Springfield, Illinois 62761

W20

This form shall be submitted to this Department not more than 30 days after a potable water well, boring or monitoring well is sealed. Such wells are to be sealed not more than 30 days after they are abandoned in accordance with the sealing requirements in the Water Well Construction Code.

1. Ownership (Name of Controlling Party) Beloit Corporation
2. Well Location: 1165 Prairie Hill Rd. (Address - Lot #)
   Rockton (City) Winnebago (County)

   General Description: Section 13 Township 46N
   Range 1E
3. Year Drilled 1992
4. Drilling Permit No. (and date, if known) _____
5. Type of Well: Bored _____ Drilled X Other _____
6. Total Depth 27.5 ft Diameter (inches) 8.5
7. Formation clear of obstruction X yes _____ no

   If no, depth - location of obstruction _____
8. DETAILS OF PLUGGING*

   Filled with Chipped Bentonite (Cement or other Materials) From 0 To 27.5 feet

   Kind of plug _____ From _____ To _____ feet

   Filled with _____ From _____ To _____ feet

   Kind of plug _____ From _____ To _____ feet

   Filled with _____ From _____ To _____ feet

   Kind of plug _____ From _____ To _____ feet
9. CASING RECORD

   Upper 3 feet of casing removed NA Yes _____ No _____

   If well casing consists of brick, stone, concrete blocks, porous tile, or other porous material, casing was removed to a depth of 10 feet below the surface. Yes _____ No _____
10. Date Well was Sealed 07 (month) 21 (day) 92 (year)
11. Licensed water well driller or other person approved by the Department performing well sealing

    Layne Northwest (Name)

    W229 N5005 Duplainville Rd., Pewaukee, WI (Address, City, State)

    (License Number)

Important Notice
This State Agency is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under Public Act 85-1041. Disclosure of this information is mandatory. This form has been approved by the Forms Management Center.

IL 482-0631

1526892

WATER WELL SEALING FORM

Illinois Department of Public Health
525 West Jefferson Street
Springfield, Illinois 62761

SB8

This form shall be submitted to this Department not more than 30 days after a potable water well, boring or monitoring well is sealed. Such wells are to be sealed not more than 30 days after they are abandoned in accordance with the sealing requirements in the Water Well Construction Code.

1. Ownership (Name of Controlling Party) Beloit Corporation
2. Well Location: 800 Watts Ave. (Address - Lot #)
   Rockton (City) Winnebago (County)

   General Description: Section 13 Township 46N
   Range 1E
3. Year Drilled 1992
4. Drilling Permit No. (and date, if known) _____
5. Type of Well: Bored _____ Drilled X Other _____
6. Total Depth 29 ft Diameter (inches) 8.5
7. Formation clear of obstruction X yes _____ no

   If no, depth - location of obstruction _____
8. DETAILS OF PLUGGING*

   Filled with Granular Bentonite (Cement or other material) From 0 To 29 feet

   Kind of plug _____ From _____ To _____ feet

   Filled with _____ From _____ To _____ feet

   Kind of plug _____ From _____ To _____ feet

   Filled with _____ From _____ To _____ feet

   Kind of plug _____ From _____ To _____ feet
9. CASING RECORD

   Upper 3 feet of casing removed NA Yes _____ No _____

   If well casing consists of brick, stone, concrete blocks, porous tile, or other porous material, casing was removed to a depth of 10 feet below the surface. Yes _____ No _____
10. Date Well was Sealed 07 (Month) 28 (Day) 92 (Year)
11. Licensed water well driller or other person approved by the Department performing well sealing

    Layne Northwest (Name)

    W229 N5005 Duplainville Rd., Pewaukee, WI (Address, City, State)

    (License Number)

Important Notice
This State Agency is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under Public Act 85-1041. Disclosure of this information is mandatory. This form has been approved by the Forms Management Center.

IL 482-0631

1526892

WATER WELL SEALING FORM

Illinois Department of Public Health
525 West Jefferson Street
Springfield, Illinois 62761

SB9

This form shall be submitted to this Department not more than 30 days after a potable water well, boring or monitoring well is sealed. Such wells are to be sealed not more than 30 days after they are abandoned in accordance with the sealing requirements in the Water Well Construction Code.

1. Ownership (Name of Controlling Party) Beloit Corporation
2. Well Location: 1165 Prairie Hill Rd. (Address - Lot #)
   Rockton (City) Winnebago (County)

   General Description: Section 13 Township 46N

   Range 1E
3. Year Drilled 1992
4. Drilling Permit No. (and date, if known) _____
5. Type of Well: Bored _____ Drilled X Other _____
6. Total Depth 31 ft Diameter (inches) 8.5
7. Formation clear of obstruction X yes _____ no

   If no, depth - location of obstruction _____
8. DETAILS OF PLUGGING*

   Filled with Cuttings/Chipped Bentonite (Cement or other materials) From 0 To 31 feet

   Kind of plug _____ From _____ To _____ feet

   Filled with _____ From _____ To _____ feet

   Kind of plug _____ From _____ To _____ feet

   Filled with _____ From _____ To _____ feet

   Kind of plug _____ From _____ To _____ feet
9. CASING RECORD

   Upper 3 feet of casing removed NA Yes _____ No _____

   If well casing consists of brick, stone, concrete blocks, porous tile, or other porous material, casing was removed to a depth of 10 feet below the surface. Yes _____ No _____
10. Date Well was Sealed 07 (month) 17 (day) 92 (year)
11. Licensed water well driller or other person approved by the Department performing well sealing

    Layne Northwest (Name)

    W229 N5005 Duplainville Rd., Pewaukee, WI (Address, City, State)

    _____ (License Number)

Important Notice
This State Agency is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under Public Act 83-0441. Disclosure of this information is mandatory. This form has been approved by the Forms Management Center.

IL 482-0631

1526892

WATER WELL SEALING FORM

Illinois Department of Public Health
525 West Jefferson Street
Springfield, Illinois 62761

SB10

This form shall be submitted to this Department not more than 30 days after a potable water well, boring or monitoring well is sealed. Such wells are to be sealed not more than 30 days after they are abandoned in accordance with the sealing requirements in the Water Well Construction Code.

1. Ownership (Name of Controlling Party) Beloit Corporation
2. Well Location: 1165 Prairie Hill Rd. (address - lot #)
   Rockton (city) Winnebago (county)

   General Description: Section 13 Township 46N
   Range 1E
3. Year Drilled 1992
4. Drilling Permit No. (and date, if known) _____
5. Type of Well: Bored _____ Drilled X Other _____
6. Total Depth 34 ft Diameter (inches) 8.5
7. Formation clear of obstruction X yes _____ no
   If no, depth - location of obstruction _____
8. DETAILS OF PLUGGING*
   Filled with Chipped Bentonite (cement or other materials) From 0 To 34 feet
   Kind of plug _____ From _____ To _____ feet
   Filled with _____ From _____ To _____ feet
   Kind of plug _____ From _____ To _____ feet
   Filled with _____ From _____ To _____ feet
   Kind of plug _____ From _____ To _____ feet
9. CASING RECORD
   Upper 3 feet of casing removed NA Yes _____ No _____
   If well casing consists of brick, stone, concrete blocks, porous tile, or other porous material, casing was removed to a depth of 10 feet below the surface. Yes _____ No _____
10. Date Well was Sealed 07 (month) 15 (day) 92 (year)
11. Licensed water well driller or other person approved by the Department performing well sealing
    Layne Northwest (name)
    W229 N5005 Duplainville Rd., Pewaukee, WI (address, city, state)
    _____ (license number)

Important Notice
This State Agency is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under Public Act 83-1341. Disclosure of this information is mandatory. This form has been approved by the Forms Management Center.

IL 482-0631

1526892

WATER WELL SEALING FORM

Illinois Department of Public Health
525 West Jefferson Street
Springfield, Illinois 62761

SB11

This form shall be submitted to this Department not more than 30 days after a potable water well, boring or monitoring well is sealed. Such wells are to be sealed not more than 30 days after they are abandoned in accordance with the sealing requirements in the Water Well Construction Code.

1. Ownership (Name of Controlling Party) Beloit Corporation
2. Well Location: 1165 Prairie Hill Rd.
   Address - Lot #
   Rockton — City — Winnebago — County

   General Description: Section 13 Township 46N
   Range 1E
3. Year Drilled 1992
4. Drilling Permit No. (and date, if known) _____
5. Type of Well: Bored ____ Drilled X Other ____
6. Total Depth 27 ft Diameter (inches) 8.5
7. Formation clear of obstruction X yes ____ no
   If no, depth - location of obstruction _____
8. DETAILS OF PLUGGING*
   Filled with Cuttings/Chipped Bentonite (Cement or other Materials) From 0 To 27 feet
   Kind of plug _____ From ____ To ____ feet
   Filled with _____ From ____ To ____ feet
   Kind of plug _____ From ____ To ____ feet
   Filled with _____ From ____ To ____ feet
   Kind of plug _____ From ____ To ____ feet
9. CASING RECORD
   Upper 3 feet of casing removed NA Yes ____ No ____
   If well casing consists of brick, stone, concrete blocks, porous tile, or other porous material, casing was removed to a depth of 10 feet below the surface. Yes ____ No ____
10. Date Well was Sealed 07 (month) 16 (day) 92 (year)
11. Licensed water well driller or other person approved by the Department performing well sealing
    Layne Northwest
    Name
    W229 N5005 Duplainville Rd., Pewaukee, WI
    Address — City — State
    License Number

Important Notice
This State Agency is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under Public Act 85-1084. Disclosure of this information is mandatory. This form has been approved by the Forms Management Center.

IL 482-0631

1526892

WATER WELL SEALING FORM

Illinois Department of Public Health
525 West Jefferson Street
Springfield, Illinois 62761

SB12

This form shall be submitted to this Department not more than 30 days after a potable water well, boring or monitoring well is sealed. Such wells are to be sealed not more than 30 days after they are abandoned in accordance with the sealing requirements in the Water Well Construction Code.

1. Ownership (Name of Controlling Party) Beloit Corporation
2. Well Location: 1165 Prairie Hill Rd. (Address - Lot #)
   Rockton (City) Winnebago (County)

   General Description: Section 13 Township 46N
   Range 1E
3. Year Drilled 1992
4. Drilling Permit No. (and date, if known) _____
5. Type of Well: Bored _____ Drilled X Other _____
6. Total Depth 35 ft Diameter (inches) 8.5
7. Formation clear of obstruction X yes _____ no
   If no, depth - location of obstruction _____
8. DETAILS OF PLUGGING*
   Filled with Cuttings/Granular Bentonite (Kind of other Material) From 0 To 35 feet
   Kind of plug _____ From _____ To _____ feet
   Filled with _____ From _____ To _____ feet
   Kind of plug _____ From _____ To _____ feet
   Filled with _____ From _____ To _____ feet
   Kind of plug _____ From _____ To _____ feet
9. CASING RECORD
   Upper 3 feet of casing removed NA Yes _____ No _____
   If well casing consists of brick, stone, concrete blocks, porous tile, or other porous material, casing was removed to a depth of 10 feet below the surface. Yes _____ No _____
10. Date Well was Sealed 07 (month) 21 (day) 92 (year)
11. Licensed water well driller or other person approved by the Department performing well sealing
    Layne Northwest (Name)
    W229 W5005 Duplainville Rd., Pewaukee, WI (Address, City, State)
    _____ (License Number)

Important Notice
This State Agency is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under Public Act 83-1063. Disclosure of this information is mandatory. This Form has been approved by the Forms Management Center.

IL 482-0631

1526892

WATER WELL SEALING FORM

Illinois Department of Public Health
525 West Jefferson Street
Springfield, Illinois 62761

SB13

This form shall be submitted to this Department not more than 30 days after a potable water well, boring or monitoring well is sealed. Such wells are to be sealed not more than 30 days after they are abandoned in accordance with the sealing requirements in the Water Well Construction Code.

1. Ownership (Name of Controlling Party) Beloit Corporation
2. Well Location: 1165 Prairie Hill Rd. (Address - Lot #)
   Rockton (City) Winnebago (County)

   General Description: Section 13 Township 46N
   Range 1E,
3. Year Drilled 1992
4. Drilling Permit No. (and date, if known) _____
5. Type of Well: Bored _____ Drilled X Other _____
6. Total Depth 35 ft Diameter (inches) 8.5
7. Formation clear of obstruction X yes _____ no

   If no, depth - location of obstruction _____
8. DETAILS OF PLUGGING*

   Filled with Cuttings/Granular Bentonite (Cement or other Materials) From 0 To 35 feet

   Kind of plug _____ From _____ To _____ feet

   Filled with _____ From _____ To _____ feet

   Kind of plug _____ From _____ To _____ feet

   Filled with _____ From _____ To _____ feet

   Kind of plug _____ From _____ To _____ feet
9. CASING RECORD

   Upper 3 feet of casing removed NA Yes _____ No _____

   If well casing consists of brick, stone, concrete blocks, porous tile, or other porous material, casing was removed to a depth of 10 feet below the surface. Yes _____ No _____
10. Date Well was Sealed 07 (Month) 17 (Day) 92 (Year)
11. Licensed water well driller or other person approved by the Department performing well sealing

    Layne Northwest (Name)

    W229 N5005 Duplainville Rd., Pewaukee, WI (Address, City, State)

    (License Number)

Important Notice
This State Agency is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under Public Act 85-1081. Disclosure of this information is mandatory. This form has been approved by the Forms Management Center.

IL 482-0631

1526892

WATER WELL SEALING FORM

Illinois Department of Public Health
525 West Jefferson Street
Springfield, Illinois 62761

SB14

This form shall be submitted to this Department not more than 30 days after a potable water well, boring or monitoring well is sealed. Such wells are to be sealed not more than 30 days after they are abandoned in accordance with the sealing requirements in the Water Well Construction Code.

1. Ownership (Name of Controlling Party) Beloit Corporation
2. Well Location: 1165 Prairie Hill Rd.
   Address - Lot #
   Rockton — City; Winnebago — County
   General Description: Section 13 Township 46N
   Range 1E
3. Year Drilled 1992
4. Drilling Permit No. (and date, if known) _____
5. Type of Well: Bored _____ Drilled X Other _____
6. Total Depth 29 ft Diameter (inches) 8.5
7. Formation clear of obstruction X yes _____ no
   If no, depth - location of obstruction _____
8. DETAILS OF PLUGGING*
   Filled with Chipped Bentonite (Amount of Bags, Materials) From 0 To 29 feet
   Kind of plug _____ From _____ To _____ feet
   Filled with _____ From _____ To _____ feet
   Kind of plug _____ From _____ To _____ feet
   Filled with _____ From _____ To _____ feet
   Kind of plug _____ From _____ To _____ feet
9. CASING RECORD
   Upper 3 feet of casing removed NA Yes _____ No _____
   If well casing consists of brick, stone, concrete blocks, porous tile, or other porous material, casing was removed to a depth of 10 feet below the surface. Yes _____ No _____
10. Date Well was Sealed 07 (month) 14 (day) 92 (year)
11. Licensed water well driller or other person approved by the Department performing well sealing
    Layne Northwest
    Name
    W229 N5005 Duplainville Rd., Pewaukee, WI
    Address — City — State
    Licence Number

Important Notice
This State Agency is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under Public Act 83-1341. Disclosure of this information is mandatory. This form has been approved by the Forms Management Center.

IL 482-0631

1526892

WATER WELL SEALING FORM

Illinois Department of Public Health
525 West Jefferson Street
Springfield, Illinois 62761

SB15

This form shall be submitted to this Department not more than 30 days after a potable water well, boring or monitoring well is sealed. Such wells are to be sealed not more than 30 days after they are abandoned in accordance with the sealing requirements in the Water Well Construction Code.

1. Ownership (Name of Controlling Party) Beloit Corporation
2. Well Location: 1165 Prairie Hill Rd. (Address - Lot #)
   Rockton (City) Winnebago (County)

   General Description: Section 13 Township 46N
   Range 1E
3. Year Drilled 1992
4. Drilling Permit No. (and date, if known) _____
5. Type of Well: Bored _____ Drilled X Other _____
6. Total Depth 31 ft Diameter (inches) 8.5
7. Formation clear of obstruction X yes _____ no
   If no, depth - location of obstruction _____
8. DETAILS OF PLUGGING*
   Filled with Cuttings/Chipped Bentonite (Cement or other Materials) From 0 To 31 feet
   Kind of plug _____ From _____ To _____ feet
   Filled with _____ From _____ To _____ feet
   Kind of plug _____ From _____ To _____ feet
   Filled with _____ From _____ To _____ feet
   Kind of plug _____ From _____ To _____ feet
9. CASING RECORD
   Upper 3 feet of casing removed NA Yes _____ No _____
   If well casing consists of brick, stone, concrete blocks, porous tile, or other porous material, casing was removed to a depth of 10 feet below the surface. Yes _____ No _____
10. Date Well was Sealed 07 (month) 15 (day) 92 (year)
11. Licensed water well driller or other person approved by the Department performing well sealing
    Layne Northwest (Name)
    W229 N5005 Duplainville Rd., Pewaukee, WI (Address) (City) (State)
    (License Number)

Important Notice
This State Agency is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under Public Act 85-1041. Disclosure of this information is mandatory. This form has been approved by the Forms Management Center.

IL 482-0631

1526892

WATER WELL SEALING FORM

Illinois Department of Public Health
525 West Jefferson Street
Springfield, Illinois 62761

SB16

This form shall be submitted to this Department not more than 30 days after a potable water well, boring or monitoring well is sealed. Such wells are to be sealed not more than 30 days after they are abandoned in accordance with the sealing requirements in the Water Well Construction Code.

1. Ownership (Name of Controlling Party) Beloit Corporation
2. Well Location: 1165 Prairie Hill Rd. (Address - Lot #)
   Rockton (City) Winnebago (County)

   General Description: Section 13 Township 46N
   Range 1E
3. Year Drilled 1992
4. Drilling Permit No. (and date, if known) /
5. Type of Well: Bored ____ Drilled X Other ____
6. Total Depth 27 ft Diameter (inches) 8.5
7. Formation clear of obstruction X yes ____ no

   If no, depth - location of obstruction ____
8. DETAILS OF PLUGGING*

   Filled with Cuttings/Chipped Bentonite (Cement or other materials) From 0 To 27 feet

   Kind of plug ____ From ____ To ____ feet

   Filled with ____ From ____ To ____ feet

   Kind of plug ____ From ____ To ____ feet

   Filled with ____ From ____ To ____ feet

   Kind of plug ____ From ____ To ____ feet
9. CASING RECORD

   Upper 3 feet of casing removed NA Yes ____ No ____

   If well casing consists of brick, stone, concrete blocks, porous tile, or other porous material, casing was removed to a depth of 10 feet below the surface. Yes ____ No ____
10. Date Well was Sealed 07 (Month) 16 (Day) 92 (Year)
11. Licensed water well driller or other person approved by the Department performing well sealing

    Layne Northwest (Name)

    W229 N5005 Duplainville Rd., Pewaukee, WI (Address, City, State)

    (License Number)

Important Notice
This State Agency is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under Public Act 85-1051. Disclosure of this information is mandatory. This form has been approved by the Forms Management Center.

IL 482-0631

1526892

WATER WELL SEALING FORM

Illinois Department of Public Health
525 West Jefferson Street
Springfield, Illinois 62761

SB17

This form shall be submitted to this Department not more than 30 days after a potable water well, boring or monitoring well is sealed. Such wells are to be sealed not more than 30 days after they are abandoned in accordance with the sealing requirements in the Water Well Construction Code.

1. Ownership (Name of Controlling Party) Beloit Corporation
2. Well Location: 1314 Watts Ave. (Address - Lot #)
   Rockton (City) Winnebago (County)

   General Description: Section 13 Township 46N
   Range 1E
3. Year Drilled 1992
4. Drilling Permit No. (and date, if known) _____
5. Type of Well: Bored _____ Drilled X Other _____
6. Total Depth 27 ft Diameter (inches) 8.5
7. Formation clear of obstruction X yes _____ no
   If no, depth - location of obstruction _____
8. DETAILS OF PLUGGING*
   Filled with Cuttings/Granular Bentonite (Amount of other Materials) From 0 To 27 feet
   Kind of plug _____ From _____ To _____ feet
   Filled with _____ From _____ To _____ feet
   Kind of plug _____ From _____ To _____ feet
   Filled with _____ From _____ To _____ feet
   Kind of plug _____ From _____ To _____ feet
9. CASING RECORD
   Upper 3 feet of casing removed NA Yes _____ No _____
   If well casing consists of brick, stone, concrete blocks, porous tile, or other porous material, casing was removed to a depth of 10 feet below the surface. Yes _____ No _____
10. Date Well was Sealed 07 (month) 28 (day) 92 (year)
11. Licensed water well driller or other person approved by the Department performing well sealing
    Layne Northwest (Name)
    W229 N5005 Duplainville Rd., Pewaukee, WI (Address, City, State)
    _____ (License Number)

Important Notice
This State Agency is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under Public Act 81-1041. Disclosure of this information is mandatory. This form has been approved by the Forms Management Center.

IL 482-0631

1526892

WATER WELL SEALING FORM

Illinois Department of Public Health
525 West Jefferson Street
Springfield, Illinois 62761

SB18

This form shall be submitted to this Department not more than 30 days after a potable water well, boring or monitoring well is sealed. Such wells are to be sealed not more than 30 days after they are abandoned in accordance with the sealing requirements in the Water Well Construction Code.

1. Ownership (Name of Controlling Party) Beloit Corporation
2. Well Location: 1165 Prairie Hill Rd.
   Address - Lot #
   Rockton (City) Winnebago (County)

   General Description: Section 12 Township 46N

   Range 1E
3. Year Drilled 1992
4. Drilling Permit No. (and date, if known) _____
5. Type of Well: Bored _____ Drilled X Other _____
6. Total Depth 13 ft Diameter (inches) 8.5
7. Formation clear of obstruction X yes _____ no

   If no, depth - location of obstruction _____
8. DETAILS OF PLUGGING*

   Filled with Cuttings/Granular Bentonite (Cement or other Materials) From 0 To 13 feet

   Kind of plug _____ From _____ To _____ feet

   Filled with _____ From _____ To _____ feet

   Kind of plug _____ From _____ To _____ feet

   Filled with _____ From _____ To _____ feet

   Kind of plug _____ From _____ To _____ feet
9. CASING RECORD

   Upper 3 feet of casing removed NA Yes _____ No _____

   If well casing consists of brick, stone, concrete blocks, porous tile, or other porous material, casing was removed to a depth of 10 feet below the surface. Yes _____ No _____
10. Date Well was Sealed 07 (month) 22 (day) 92 (year)
11. Licensed water well driller or other person approved by the Department performing well sealing

    Layne Northwest
    Name

    W229 N5005 Duplainville Rd., Pewaukee, WI
    Address City State

    License Number

Important Notice
This State Agency is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under Public Act 85-0863. Disclosure of this information is mandatory. This form has been approved by the Forms Management Center.

IL 482-0631

1526892

WATER WELL SEALING FORM

Illinois Department of Public Health
525 West Jefferson Street
Springfield, Illinois 62761

SB19

This form shall be submitted to this Department not more than 30 days after a potable water well, boring or monitoring well is sealed. Such wells are to be sealed not more than 30 days after they are abandoned in accordance with the sealing requirements in the Water Well Construction Code.

1. Ownership (Name of Controlling Party) Beloit Corporation
2. Well Location: 1165 Prairie Hill Rd.
   Address - Lot #
   Rockton — City; Winnebago — County

   General Description: Section 12 Township 46N

   Range 1E
3. Year Drilled 1992
4. Drilling Permit No. (and date, if known) _____
5. Type of Well: Bored _____ Drilled X Other _____
6. Total Depth 33 ft Diameter (inches) 8.5
7. Formation clear of obstruction X yes _____ no

   If no, depth - location of obstruction _____
8. DETAILS OF PLUGGING*

   Filled with Cutting/Granular Bentonite (Cement or other Materials) From 0 To 33 feet

   Kind of plug _____ From _____ To _____ feet

   Filled with _____ From _____ To _____ feet

   Kind of plug _____ From _____ To _____ feet

   Filled with _____ From _____ To _____ feet

   Kind of plug _____ From _____ To _____ feet
9. CASING RECORD

   Upper 3 feet of casing removed NA Yes _____ No _____

   If well casing consists of brick, stone, concrete blocks, porous tile, or other porous material, casing was removed to a depth of 10 feet below the surface. Yes _____ No _____
10. Date Well was Sealed 07 (month) 22 (day) 92 (year)
11. Licensed water well driller or other person approved by the Department performing well sealing

    Layne Northwest
    Name

    W229 N5005 Duplainville Rd., Pewaukee, WI
    Address — City — State

    License Number

Important Notice
This State Agency is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under Public Act 85-1041. Disclosure of this information is mandatory. This form has been approved by the Forms Management Center.

IL 482-0631

1526892

WATER WELL SEALING FORM

Illinois Department of Public Health
525 West Jefferson Street
Springfield, Illinois 62761

SB20

This form shall be submitted to this Department not more than 30 days after a potable water well, boring or monitoring well is sealed. Such wells are to be sealed not more than 30 days after they are abandoned in accordance with the sealing requirements in the Water Well Construction Code.

1. Ownership (Name of Controlling Party) Beloit Corporation
2. Well Location: 1165 Prairie Hill Rd.
   (Address - lot #)
   Rockton (City) Winnebago (County)

   General Description: Section 13 Township 46N
   Range 1E
3. Year Drilled 1992
4. Drilling Permit No. (and date, if known) _____
5. Type of Well: Bored _____ Drilled X Other _____
6. Total Depth 4 ft Diameter (inches) 8.5
7. Formation clear of obstruction X yes _____ no

   If no, depth - location of obstruction _____
8. DETAILS OF PLUGGING*

   Filled with Native Materials (Kind of other materials) From 0 To 1 feet

   Kind of plug Granular Bentonite From 1 To 4 feet

   Filled with _____ From _____ To _____ feet

   Kind of plug _____ From _____ To _____ feet

   Filled with _____ From _____ To _____ feet

   Kind of plug _____ From _____ To _____ feet
9. CASING RECORD

   Upper 3 feet of casing removed N/A Yes _____ No _____

   If well casing consists of brick, stone, concrete blocks, porous tile, or other porous material, casing was removed to a depth of 10 feet below the surface. Yes _____ No _____
10. Date Well was Sealed 07 (month) 23 (day) 92 (year)
11. Licensed water well driller or other person approved by the Department performing well sealing

    Layne Northwest
    (Name)

    W299 N5005 Duplainville Rd., Pewaukee, WI
    (Address) (City) (State)

    (License Number)

Important Notice
This State Agency is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under Public Act [illegible]. Disclosure of this information is mandatory. This form has been approved by the Forms Management Center.

IL 482-0631

1526892

WATER WELL SEALING FORM

Illinois Department of Public Health
525 West Jefferson Street
Springfield, Illinois 62761

SB21

This form shall be submitted to this Department not more than 30 days after a potable water well, boring or monitoring well is sealed. Such wells are to be sealed not more than 30 days after they are abandoned in accordance with the sealing requirements in the Water Well Construction Code.

1. Ownership (Name of Controlling Party) Beloit Corporation
2. Well Location: 1165 Prairie Hill Road (Address - Lot #)
   Rockton (City) Winnebago (County)

   General Description: Section 13 Township 46N
   Range 1E
3. Year Drilled 1992
4. Drilling Permit No. (and date, if known) _____
5. Type of Well: Bored _____ Drilled X Other _____
6. Total Depth 36 ft Diameter (inches) 8.5
7. Formation clear of obstruction X yes _____ no

   If no, depth - location of obstruction _____
8. DETAILS OF PLUGGING*

   Filled with Native Materials (Cement or other Materials) From 0 To 1 feet

   Kind of plug Cuttings/Granular Bentonite From 1 To 29 feet

   Filled with Natural Cave From 29 To 36 feet

   Kind of plug _____ From _____ To _____ feet

   Filled with _____ From _____ To _____ feet

   Kind of plug _____ From _____ To _____ feet
9. CASING RECORD

   Upper 3 feet of casing removed N/A Yes _____ No _____

   If well casing consists of brick, stone, concrete blocks, porous tile, or other porous material, casing was removed to a depth of 10 feet below the surface. Yes _____ No _____
10. Date Well was Sealed 07 (month) 24 (day) 92 (year)
11. Licensed water well driller or other person approved by the Department performing well sealing

    Layne Northwest (Name)

    W299 N5005 Duplainville Rd., Pewaukee, WI (Address, City, State)

    _____ (License Number)

Important Notice
This State Agency is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under Public Act 85-1041. Disclosure of this information is mandatory. This form has been approved by the Forms Management Center.

IL 482-0631

1526892

WATER WELL SEALING FORM

Illinois Department of Public Health
525 West Jefferson Street
Springfield, Illinois 62761

SP1

This form shall be submitted to this Department not more than 30 days after a potable water well, boring or monitoring well is sealed. Such wells are to be sealed not more than 30 days after they are abandoned in accordance with the sealing requirements in the Water Well Construction Code.

1. Ownership (Name of Controlling Party) Beloit Corporation
2. Well Location: 1165 Prairie Hill Rd. (Address - lot #)
   Rockton (City) Winnebago (County)

   General Description: Section 12 Township 46N
   Range 1E
3. Year Drilled 1987
4. Drilling Permit No. (and date, if known) _____
5. Type of Well: Bored _____ Drilled X Other _____
6. Total Depth 34.7 ft Diameter (inches) 8.5
7. Formation clear of obstruction X yes _____ no

   If no, depth - location of obstruction _____
8. DETAILS OF PLUGGING*

   Filled with Topsoil (Cement or other material) From 0 To 1 feet

   Kind of plug Neat Cement Grout From 1 To 34.7 feet

   Filled with _____ From _____ To _____ feet

   Kind of plug _____ From _____ To _____ feet

   Filled with _____ From _____ To _____ feet

   Kind of plug _____ From _____ To _____ feet
9. CASING RECORD

   Upper 3 feet of casing removed X Yes _____ No _____

   If well casing consists of brick, stone, concrete blocks, porous tile, or other porous material, casing was removed to a depth of 10 feet below the surface. Yes _____ No _____
10. Date Well was Sealed 07 (month) 14 (day) 92 (year)
11. Licensed water well driller or other person approved by the Department performing well sealing

    Layne Northwest (Name)

    W229 N5005 Duplainville Rd., Pewaukee, WI (Address, City, State)

    (License Number)

Important Notice
This State Agency is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under Public Act 81-1084. Disclosure of this information is mandatory. This form has been approved by the Forms Management Center.

IL 482-0631

1526892

WATER WELL SEALING FORM

Illinois Department of Public Health
525 West Jefferson Street
Springfield, Illinois 62761

SP3

This form shall be submitted to this Department not more than 30 days after a potable water well, boring or monitoring well is sealed. Such wells are to be sealed not more than 30 days after they are abandoned in accordance with the sealing requirements in the Water Well Construction Code.

1. Ownership (Name of Controlling Party) Beloit Corporation
2. Well Location: 1165 Prairie Hill Rd. (Address - Lot #)
   Rockton (City) Winnebago (County)
   General Description: Section 13 Township 46N
   Range 1E
3. Year Drilled 1987
4. Drilling Permit No. (and date, if known) _____
5. Type of Well: Bored _____ Drilled X Other _____
6. Total Depth 35.1 Diameter (inches) 8.5
7. Formation clear of obstruction X yes _____ no
   If no, depth - location of obstruction _____
8. DETAILS OF PLUGGING*
   Filled with Topsoil (Cement or other Materials) From 0 To 1 feet
   Kind of plug Neat Cement Grout From 1 To 35.1 feet
   Filled with _____ From _____ To _____ feet
   Kind of plug _____ From _____ To _____ feet
   Filled with _____ From _____ To _____ feet
   Kind of plug _____ From _____ To _____ feet
9. CASING RECORD
   Upper 3 feet of casing removed X Yes _____ No _____
   If well casing consists of brick, stone, concrete blocks, porous tile, or other porous material, casing was removed to a depth of 10 feet below the surface. Yes _____ No _____
10. Date Well was Sealed 07 (Month) 14 (Day) 92 (Year)
11. Licensed water well driller or other person approved by the Department performing well sealing
    Layne Northwest (Name)
    W229 N5005 Duplainville Rd., Pewaukee, WI (Address, City, State)
    _____ (License Number)

Important Notice
This State Agency is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under Public Act [illegible]. Disclosure of this information is mandatory. This form has been approved by the Forms Management Center.

IL 482-0631

1526892

WATER WELL SEALING FORM

Illinois Department of Public Health
525 West Jefferson Street
Springfield, Illinois 62761

SP8

This form shall be submitted to this Department not more than 30 days after a potable water well, boring or monitoring well is sealed. Such wells are to be sealed not more than 30 days after they are abandoned in accordance with the sealing requirements in the Water Well Construction Code.

1. Ownership (Name of Controlling Party) Beloit Corporation
2. Well Location: 407 Central Dr. (Address - Lot #)
   Rockton (City) Winnebago (County)

   General Description: Section 13 Township 46N

   Range 1E
3. Year Drilled 1987
4. Drilling Permit No. (and date, if known) _____
5. Type of Well: Bored _____ Drilled X Other _____
6. Total Depth 33.9 Diameter (inches) 8.5
7. Formation clear of obstruction X yes _____ no

   If no, depth - location of obstruction _____
8. DETAILS OF PLUGGING*

   Filled with Topsoil (Cement or other Materials) From 0 To 1 feet

   Kind of plug Neat Cement Grout From 1 To 33.9 feet

   Filled with _____ From _____ To _____ feet

   Kind of plug _____ From _____ To _____ feet

   Filled with _____ From _____ To _____ feet

   Kind of plug _____ From _____ To _____ feet
9. CASING RECORD

   Upper 3 feet of casing removed X Yes _____ No _____

   If well casing consists of brick, stone, concrete blocks, porous tile, or other porous material, casing was removed to a depth of 10 feet below the surface. Yes _____ No _____
10. Date Well was Sealed 07 (month) 14 (day) 92 (year)
11. Licensed water well driller or other person approved by the Department performing well sealing

    Layne Northwest (Name)

    W229 N5005 Duplainville Rd., Pewaukee, WI (Address, City, State)

    (License Number)

Important Notice
This State Agency is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under Public Act 85-0061. Disclosure of this information is mandatory. This form has been approved by the Forms Management Center.

IL 482-0631

1526892

WATER WELL SEALING FORM

Illinois Department of Public Health
525 West Jefferson Street
Springfield, Illinois 62761

SP9

This form shall be submitted to this Department not more than 30 days after a potable water well, boring or monitoring well is sealed. Such wells are to be sealed not more than 30 days after they are abandoned in accordance with the sealing requirements in the Water Well Construction Code.

1. Ownership (Name of Controlling Party) Beloit Corporation
2. Well Location: 407 Dingman Dr. (Address - Lot #)
   Rockton (City) Winnebago (County)
   General Description: Section 13 Township 46N
   Range 1E
3. Year Drilled 1987
4. Drilling Permit No. (and date, if known) _____
5. Type of Well: Bored _____ Drilled X Other _____
6. Total Depth 42.5 Diameter (inches) 8.5
7. Formation clear of obstruction X yes _____ no
   If no, depth - location of obstruction _____
8. DETAILS OF PLUGGING*
   Filled with Topsoil (Cement or other Materials) From 0 To 1 feet
   Kind of plug Neat Cement Grout From 1 To 42.5 feet
   Filled with _____ From _____ To _____ feet
   Kind of plug _____ From _____ To _____ feet
   Filled with _____ From _____ To _____ feet
   Kind of plug _____ From _____ To _____ feet
9. CASING RECORD
   Upper 3 feet of casing removed X Yes _____ No _____
   If well casing consists of brick, stone, concrete blocks, porous tile, or other porous material, casing was removed to a depth of 10 feet below the surface. Yes _____ No _____
10. Date Well was Sealed 07 (Month) 14 (Day) 92 (Year)
11. Licensed water well driller or other person approved by the Department performing well sealing
    Layne Northwest (Name)
    W219 N505 Duplainville Rd., Pewaukee, WI (Address, City, State)
    _____ (License Number)

Important Notice
This State Agency is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under Public Act 83-2041. Disclosure of this information is mandatory. This form has been approved by the Forms Management Center.

IL 482-0631

1526892

WATER WELL SEALING FORM

Illinois Department of Public Health
525 West Jefferson Street
Springfield, Illinois 62761

SP10

This form shall be submitted to this Department not more than 30 days after a potable water well, boring or monitoring well is sealed. Such wells are to be sealed not more than 30 days after they are abandoned in accordance with the sealing requirements in the Water Well Construction Code.

1. Ownership (Name of Controlling Party) Beloit Corporation
2. Well Location: 1016 N. Blackhawk Blvd.
   Address - Lot #
   Rockton — City; Winnebago — County
   General Description: Section 13 Township 46N
   Range 1E
3. Year Drilled 1987
4. Drilling Permit No. (and date, if known) ____
5. Type of Well: Bored ____ Drilled X Other ____
6. Total Depth 39.2 Diameter (inches) 8.5
7. Formation clear of obstruction X yes ____ no
   If no, depth - location of obstruction ____
8. DETAILS OF PLUGGING*
   Filled with Topsoil (Cement or other Materials) From 0 To 1 feet
   Kind of plug Neat Cement Grout From 1 To 39.2 feet
   Filled with ____ From ____ To ____ feet
   Kind of plug ____ From ____ To ____ feet
   Filled with ____ From ____ To ____ feet
   Kind of plug ____ From ____ To ____ feet
9. CASING RECORD
   Upper 3 feet of casing removed X Yes ____ No ____
   If well casing consists of brick, stone, concrete blocks, porous tile, or other porous material, casing was removed to a depth of 10 feet below the surface. Yes ____ No ____
10. Date Well was Sealed 07 (month) 14 (day) 92 (year)
11. Licensed water well driller or other person approved by the Department performing well sealing
    Layne Northwest
    Name
    W229 N5005 Duplainville Rd., Pewaukee, WI
    Address — City — State
    License Number

Important Notice
This State Agency is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under Public Act [illegible]. Disclosure of this information is mandatory. This Form has been approved by the Forms Management Center.

IL 482-0631

1526892

WATER WELL SEALING FORM

Illinois Department of Public Health
525 West Jefferson Street
Springfield, Illinois 62761

SP11

This form shall be submitted to this Department not more than 30 days after a potable water well, boring or monitoring well is sealed. Such wells are to be sealed not more than 30 days after they are abandoned in accordance with the sealing requirements in the Water Well Construction Code.

1. Ownership (Name of Controlling Party) Beloit Corporation
2. Well Location: 1120 N. Blackhawk Blvd.
   Address - Lot #
   Rockton — City; Winnebago — County

   General Description: Section 13 Township 46N
   Range 1E
3. Year Drilled 1987
4. Drilling Permit No. (and date, if known) _____
5. Type of Well: Bored _____ Drilled X Other _____
6. Total Depth 44.6 Diameter (inches) 8.5
7. Formation clear of obstruction X yes _____ no
   If no, depth - location of obstruction _____
8. DETAILS OF PLUGGING*
   Filled with Topsoil (Cement or other material) From 0 To 1 feet
   Kind of plug Neat Cement Grout From 1 To 44.6 feet
   Filled with _____ From _____ To _____ feet
   Kind of plug _____ From _____ To _____ feet
   Filled with _____ From _____ To _____ feet
   Kind of plug _____ From _____ To _____ feet
9. CASING RECORD
   Upper 3 feet of casing removed X Yes _____ No _____
   If well casing consists of brick, stone, concrete blocks, porous tile, or other porous material, casing was removed to a depth of 10 feet below the surface. Yes _____ No _____
10. Date Well was Sealed 07 (month) 14 (day) 92 (year)
11. Licensed water well driller or other person approved by the Department performing well sealing
    Layne Northwest (Name)
    W229 N5005 Duplainville Rd., Pewaukee, WI (Address, City, State)
    _____ (License Number)

Important Notice
This State Agency is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under Public Act 81-1084. Disclosure of this information is mandatory. This form has been approved by the Forms Management Center.

IL 482-0631

1526892

WATER WELL SEALING FORM

Illinois Department of Public Health
525 West Jefferson Street
Springfield, Illinois 62761

SP12

This form shall be submitted to this Department not more than 30 days after a potable water well, boring or monitoring well is sealed. Such wells are to be sealed not more than 30 days after they are abandoned in accordance with the sealing requirements in the Water Well Construction Code.

1. Ownership (Name of Controlling Party) Beloit Corporation
2. Well Location: 1416 N. Blackhawk Blvd. (address - lot #)
   Rockton (city) Winnebago (county)

   General Description: Section 13 Township 46N
   Range 1E
3. Year Drilled 1987
4. Drilling Permit No. (and date, if known) _____
5. Type of Well: Bored _____ Drilled X Other _____
6. Total Depth 44.7 Diameter (inches) 8.5
7. Formation clear of obstruction X yes _____ no
   If no, depth - location of obstruction _____
8. DETAILS OF PLUGGING*
   Filled with Topsoil (kind of other materials) From 0 To 1 feet
   Kind of plug Neat Cement Grout From 1 To 44.7 feet
   Filled with _____ From _____ To _____ feet
   Kind of plug _____ From _____ To _____ feet
   Filled with _____ From _____ To _____ feet
   Kind of plug _____ From _____ To _____ feet
9. CASING RECORD
   Upper 3-feet of casing removed X Yes _____ No _____
   If well casing consists of brick, stone, concrete blocks, porous tile, or other porous material, casing was removed to a depth of 10 feet below the surface. Yes _____ No _____
10. Date Well was Sealed 07 (month) 14 (day) 92 (year)
11. Licensed water well driller or other person approved by the Department performing well sealing
    Layne Northwest (name)
    W229 N5005 Duplainville Rd., Pewaukee, WI (address, city, state)
    _____ (license number)

Important Notice
This State Agency is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under Public Act 79-1361. Disclosure of this information is mandatory. This form has been approved by the Forms Management Center.

IL 482-0631

C

WELL CONSTRUCTION DOCUMENTATION

ATTACHMENT B

Illinois Environmental Protection Agency — **Well Completion Report**

Site #: _____ County: Winnebago Well #: W3R

Site Name: Beloit Corporation RI/FS Grid Coordinate: Northing 2113822.4 Easting 795756.7

Drilling Contractor: Layne Northwest Date Drilled Start: 7-27-92

Driller: Mark Backhaus Geologist: Terry March Date Completed: 7-27-92

Drilling Method: 4¼" I.D. HSA Drilling Fluids (type): None

Annular Space Details

Type of Surface Seal: Bentonite Granules

Type of Annular Sealant: Bentonite Granules

Amount of cement: # of bags --- lbs. per bag ___

Amount of bentonite: # of bags 7 lbs. per bag 50

Type of Bentonite Seal (Granular, Pellet): Bentonite Granules

Amount of bentonite: # of Bags --- lbs. per bag ___

Type of Sand Pack: #5 Silica

Source of Sand: Global Drilling Suppliers Inc.

Amount of Sand: # of bags 7 lbs. per bag 50

Well Construction Materials

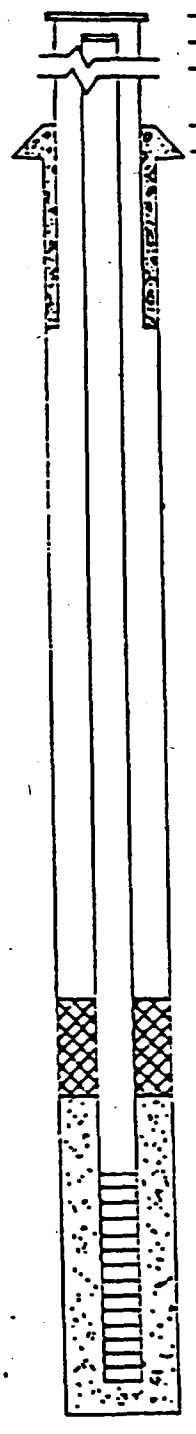
	Stainless Steel Specify Type	Teflon Specify Type	PVC Specify Type	Other Specify Type
Riser coupling joint	Flush Threaded Joint			
Riser pipe above w.t.			SCH 40	
Riser pipe below w.t.	NA			
Screen	#304 Wire Wound Continuous			
Coupling joint screen to riser	Flush Threaded Joint			
Protective casing				Steel

Measurements

to .01 ft. (where applicable)

Riser pipe length	21.1 ft
Protective casing length	6.5 ft
Screen length	9.6 ft
Bottom of screen to end cap	.35 ft
Top of screen to first joint	.25 ft
Total length of casing	31.3
Screen slot size	No. 10 (0.010")
% of openings in screen	Continuous
Diameter of borehole (in)	8.5
ID of riser pipe (in)	2.0

Elevations — .01 ft.



746.40 MSL Top of Protective Casing
746.22 MSL Top of Riser Pipe
2.22 ft. Casing Stickup
744.00 MSL Ground Surface
0.5 ft. Top of annular sealant
0.5 ft. Top of Seal
16.3 ft. Total Seal Interval
16.8 ft. Top of Sand
18.9 ft. Top of Screen
10.2 ft. Total Screen Interval
29.1 ft. Bottom of Screen
29.5 ft. Bottom of Borehole

Completed by: R.J. Ramsby/J.E. Moser Surveyed by: Land Surveys Limited Ill. registration #: 035-002742

ATTACHMENT B

Illinois Environmental Protection Agency — **Well Completion Report**

Site #: _____ County: Winnebago Well #: W5R

Site Name: Beloit Corporation RI/FS Grid Coordinate: Northing 2113828.5 Easting 795755.9

Drilling Contractor: Layne Northwest Date Drilled Start: 8-3-92

Driller: Mark Backhaus Geologist: T. Dushek Date Completed: 8-3-92

Drilling Method: 4¼" I.D. HSA Drilling Fluids (type): Potable Water

Annular Space Details

Type of Surface Seal: Bentonite Granules

Type of Annular Sealant: Bentonite Granules

Amount of cement: # of bags --- lbs. per bag ___

Amount of bentonite: # of bags 7 lbs. per bag 50

Type of Bentonite Seal (Granular, Pellet): Bentonite Grout

Amount of bentonite: # of Bags 1 lbs. per bag 50

Type of Sand Pack: #5 Silica

Source of Sand: Global Drilling Suppliers Inc.

Amount of Sand: # of bags 2 lbs. per bag 50

Well Construction Materials

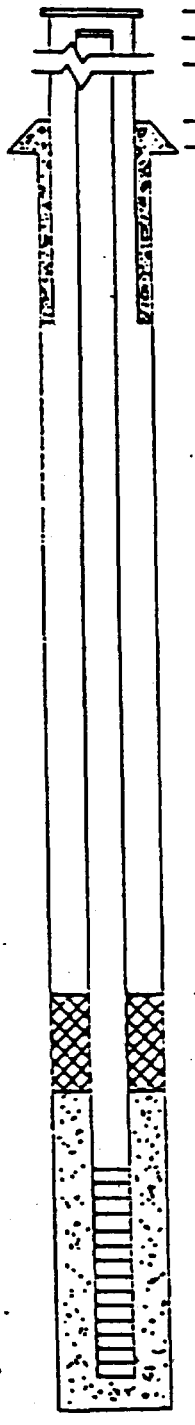
	Stainless Steel Specify Type	Teflon Specify Type	PVC Specify Type	Other Specify Type
Riser coupling joint	Flush	Threaded	Joint	
Riser pipe above w.t.			SCH 40	
Riser pipe below w.t.	#304		SCH 40	
Screen	#304	Wire Wound	Continuous	
Coupling joint screen to riser	Flush	Threaded	Joint	
Protective casing				Steel

Measurements

to .01 ft. (where applicable)

Riser pipe length	54.7 ft
Protective casing length	7.0 ft
Screen length	4.6 ft
Bottom of screen to end cap	.35 ft
Top of screen to first joint	.25 ft
Total length of casing	59.9 ft
Screen slot size	No. 10 (0.010")
% of openings in screen	Continuous
Diameter of borehole (in)	8.5
ID of riser pipe (in)	2.0

Elevations — .01 ft.



746.43 MSL Top of Protective Casing
746.17 MSL Top of Riser Pipe
2.17 ft. Casing Stickup
744.0 MSL Ground Surface
0.5 ft. Top of annular sealant
45.0 ft. Top of Seal
6.1 ft. Total Seal Interval
51.0 ft. Top of Sand
52.5 ft. Top of Screen
5.2 ft. Total Screen Interval
57.7 ft. Bottom of Screen
58.0 ft. Bottom of Borehole

Completed by: R.J. Ramsby/J.E. Moser Surveyed by: Land Surveys Limited Ill. registration # 035-002742

ATTACHMENT B

Illinois Environmental Protection Agency — **Well Completion Report**

Site #: _____ County: Winnebago Well #: W8R

Site Name: Beloit Corporation RI/FS Grid Coordinate: Northing 2115777.3 Easting 799691.7

Drilling Contractor: Layne Northwest Date Drilled Start: 8-17-92

Driller: L. Stewart Geologist: R.J. Ramsby Date Completed: 8-18-92

Drilling Method: Dual Tube Reverse Circulation Drilling Fluids (type): Air

Annular Space Details

Type of Surface Seal: Granular Bentonite

Type of Annular Sealant: Chipped Bentonite

Amount of cement: # of bags -- lbs. per bag ____

Amount of bentonite: # of bags 5 lbs. per bag 50

Type of Bentonite Seal (Granular, Pellet): Chipped Bentonite

Amount of bentonite: # of Bags 2 lbs. per bag 50

Type of Sand Pack: #5 Silica

Source of Sand: Global Drilling Suppliers Inc.

Amount of Sand: # of bags 5 lbs. per bag 50

Well Construction Materials

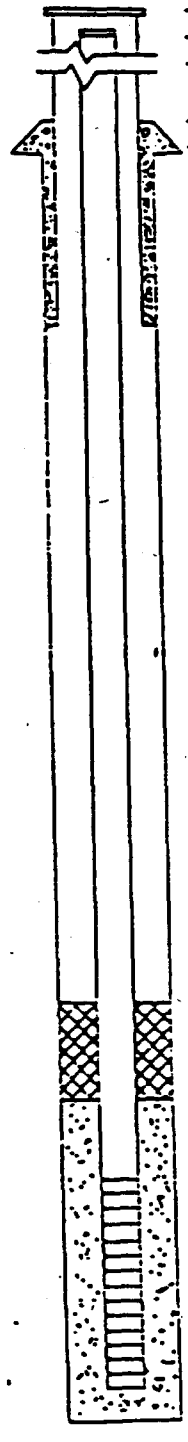
	Stainless Steel Specify Type	Teflon Specify Type	PVC Specify Type	Other Specify Type
Riser coupling joint	Flush Threaded Joint			
Riser pipe above w.t.			SCH 40	
Riser pipe below w.t.	NA			
Screen	#304 Wire Wound Continuous			
Coupling joint screen to riser	Flush Threaded Joint			
Protective casing				Steel

Measurements

to .01 ft. (where applicable)

Riser pipe length	44.3 ft
Protective casing length	5.0 ft
Screen length	9.6 ft
Bottom of screen to end cap	.35 ft
Top of screen to first joint	.25 ft
Total length of casing	54.5 ft
Screen slot size	No. 10 (0.010")
% of openings in screen	Continuous
Diameter of borehole (in)	6.5
ID of riser pipe (in)	2.0

Elevations — .01 ft.



775.02 MSL Top of Protective Casing

774.83 MSL Top of Riser Pipe

2.93 ft. Casing Stickup

771.9 MSL Ground Surface

3.0 ft. Top of annular sealant

3.0 ft. Top of Seal

36.5 ft. Total Seal Interval

39.5 ft. Top of Sand

41.4 ft. Top of Screen

10.2 ft. Total Screen Interval

51.6 ft. Bottom of Screen

52.0 ft. Bottom of Borehole

Completed by: R.J. Ramsby/J.E. Moser Surveyed by: Land Surveys Limited Ill. registration #: 035-002742

ATTACHMENT B

Illinois Environmental Protection Agency — **Well Completion Report**

Site #: _____ County: Winnebago Well #: W11R

Site Name: Beloit Corporation RI/FS Grid Coordinate: Northing 2115770.7 Easting 799690.6

Drilling Contractor: Layne Northwest Date Drilled Start: 8-17-92

Driller: L. Stewart Geologist: R.J. Ramsby Date Completed: 8-17-92

Drilling Method: Dual Tube Reverse Circulation Drilling Fluids (type): Air

Annular Space Details

Type of Surface Seal: Granular Bentonite

Type of Annular Sealant: Chipped Bentonite

Amount of cement: # of bags -- lbs. per bag ____

Amount of bentonite: # of bags 8 lbs. per bag 50

Type of Bentonite Seal (Granular, Pellet): Chipped Bentonite

Amount of bentonite: # of Bags 2 lbs. per bag 50

Type of Sand Pack: #5 Silica

Source of Sand: Global Drilling Suppliers Inc.

Amount of Sand: # of bags 3 lbs. per bag 50

Well Construction Materials

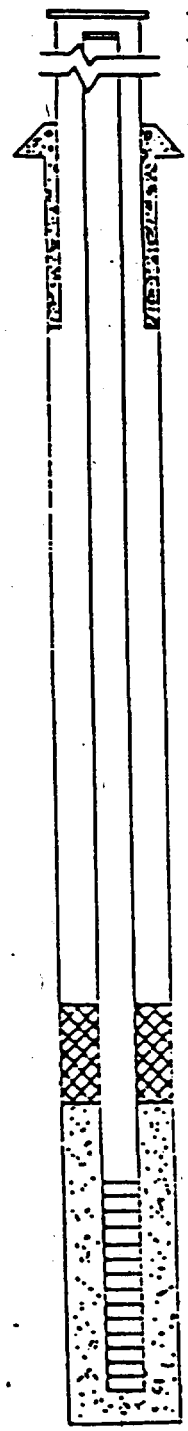
	Stainless Steel Specify Type	Teflon Specify Type	PVC Specify Type	Other Specify Type
Riser coupling joint	Flush Threaded Joint			
Riser pipe above w.t.			SCH 40	
Riser pipe below w.t.	#304		SCH 40	
Screen	#304 Wire Wound Continuous			
Coupling joint screen to riser	Flush Threaded Joint			
Protective casing				Steel

Measurements

to .01 ft. (where applicable)

Riser pipe length	58.8 ft
Protective casing length	8.0 ft
Screen length	4.6 ft
Bottom of screen to end cap	.35 ft
Top of screen to first joint	.25 ft
Total length of casing	64.0 ft
Screen slot size	No. 10 (0.010")
# of openings in screen	Continuous
Diameter of borehole (in)	6.5
ID of riser pipe (in)	2.0

Elevations — .01 ft.



775.22 MSL Top of Protective Casing
774.82 MSL Top of Riser Pipe
2.92 ft. Casing Stickup
771.90 MSL Ground Surface
2.1 ft. Top of annular sealant
2.1 ft. Top of Seal
51.4 ft. Total Seal Interval
53.5 ft. Top of Sand
55.9 ft. Top of Screen
5.2 ft. Total Screen Interval
61.1 ft. Bottom of Screen
61.1 ft. Bottom of Borehole

Completed by: R.J. Ramsby/J.E. Moser Surveyed by: Land Surveys Limited Ill. registration #: 035-002742

ATTACHMENT B

Illinois Environmental Protection Agency — **Well Completion Report**

Site #: _____ County: Winnebago Well #: W16R

Site Name: Beloit Corporation RI/FS Grid Coordinate: Northing 2115808.3 Easting 798055.6

Drilling Contractor: Layne Northwest Date Drilled Start: 8/19/92

Driller: L. Stewart Geologist: R.J. Ramsby Date Completed: 8/19/92

Drilling Method: Dual Tube Reverse Circulation Drilling Fluids (type): Air

Annular Space Details

Type of Surface Seal: Granular Bentonite

Type of Annular Sealant: Chipped Bentonite

Amount of cement: # of bags -- lbs. per bag ___

Amount of bentonite: # of bags 5 lbs. per bag 50

Type of Bentonite Seal (Granular, Pellet): Chipped Bentonite

Amount of bentonite: # of Bags 2 lbs. per bag 50

Type of Sand Pack: #5 Silica

Source of Sand: Global Drilling Suppliers, Inc.

Amount of Sand: # of bags 5 lbs. per bag 50

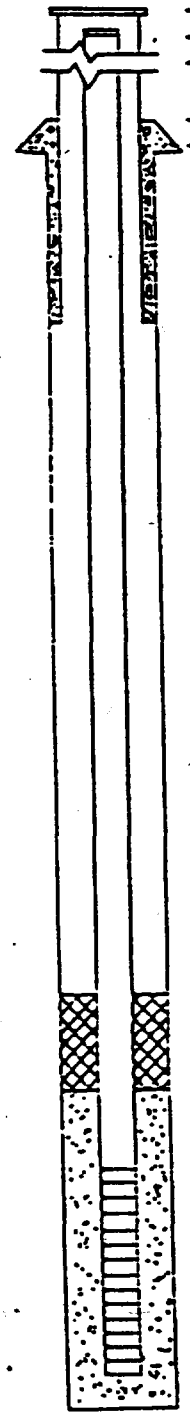
Well Construction Materials

	Stainless Steel Specify Type	Teflon Specify Type	PVC Specify Type	Other Specify Type
Riser coupling joint	Flush Threaded Joint			
Riser pipe above w.t.			SCH 40	
Riser pipe below w.t.	NA			
Screen	#304 Wire Wound Continuous			
Coupling joint screen to riser	Flush Threaded Joint			
Protective casing				Steel

Measurements

to .01 ft. (where applicable)

Riser pipe length	32.35
Protective casing length	5.0 ft
Screen length	9.6 ft
Bottom of screen to end cap	.35 ft
Top of screen to first joint	.25 ft
Total length of casing	42.55
Screen slot size	No. 10 (0.010")
% of openings in screen	Continuous
Diameter of borehole (in)	6.5
ID of riser pipe (in)	2.0



Elevations — .01 ft.

761.78 MSL Top of Protective Casing
761.54 MSL Top of Riser Pipe
2.74 ft. Casing Stickup
758.8 MSL Ground Surface
2.8 ft. Top of annular sealant
2.8 ft. Top of Seal
24.4 ft. Total Seal Interval
27.2 ft. Top of Sand
29.6 ft. Top of Screen
10.2 ft. Total Screen Interval
39.8 ft. Bottom of Screen
41.5 ft. Bottom of Borehole

Completed by: R.J. Ramsby/JEM Surveyed by: Land Surveys Limited Ill. registration #: 035-002742

ATTACHMENT B

Illinois Environmental Protection Agency — **Well Completion Report**

Site #: _____ County: Winnebago Well #: W19

Site Name: Beloit Corporation RI/FS Grid Coordinate: Northing 2113068.7 Easting 795439.2

Drilling Contractor: Layne Northwest Date Drilled Start: 7-31-92

Driller: Mark Backhaus Geologist: Terry March Date Completed: 7-31-92

Drilling Method: 4 1/4" I.D. HSA Drilling Fluids (type): None

Annular Space Details

Type of Surface Seal: Bentonite Granules

Type of Annular Sealant: Bentonite Granules

Amount of cement: # of bags --- lbs. per bag ____

Amount of bentonite: # of bags 5 lbs. per bag 50

Type of Bentonite Seal (Granular, Pellet): Bentonite Granules

Amount of bentonite: # of Bags --- lbs. per bag ____

Type of Sand Pack: #5 Silica

Source of Sand: Global Drilling Suppliers Inc.

Amount of Sand: # of bags 7 lbs. per bag 50

Well Construction Materials

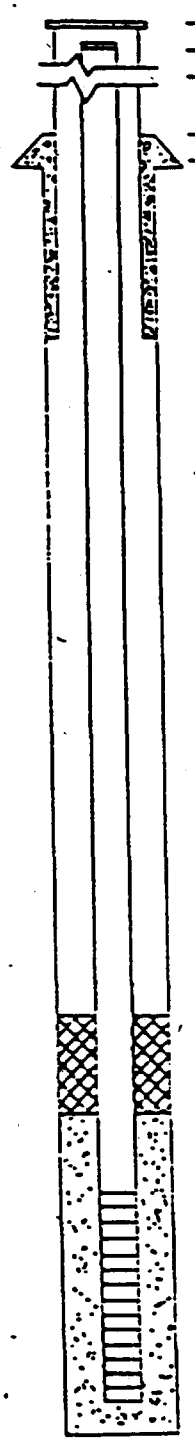
	Stainless Steel Specify Type	Teflon Specify Type	PVC Specify Type	Other Specify Type
Riser coupling joint	Flush Threaded Joint			
Riser pipe above w.t.			SCH 40	
Riser pipe below w.t.	NA			
Screen	#304 Wire Wound Continuous			
Coupling joint screen to riser	Flush Threaded Joint			
Protective casing				Steel

Measurements

to .01 ft. (where applicable)

Riser pipe length	19.8 ft
Protective casing length	6.5 ft
Screen length	9.4 ft
Bottom of screen to end cap	.35 ft
Top of screen to first joint	.25 ft
Total length of casing	30.0 ft
Screen slot size	No. 10 (0.010")
% of openings in screen	Continuous
Diameter of borehole (in)	8.5
ID of riser pipe (in)	2.0

Elevations — .01 ft.



745.08 MSL Top of Protective Casing
744.76 MSL Top of Riser Pipe
2.66 ft. Casing Stickup
742.1 MSL Ground Surface
1.0 ft. Top of annular sealant
1.0 ft. Top of Seal
14.3 ft. Total Seal Interval
15.3 ft. Top of Sand
17.1 ft. Top of Screen
10.2 ft. Total Screen Interval
27.3 ft. Bottom of Screen
28.0 ft. Bottom of Borehole

Completed by: R.J. Ramsby/J.E. Moser Surveyed by: Land Surveys Limited Ill. registration # 035-002742

ATTACHMENT B

Illinois Environmental Protection Agency — **Well Completion Report**

Site #: _____ County: Winnebago Well #: W19B

Site Name: Beloit Corporation RI/FS Grid Coordinate: Northing 2113068.6 Easting 795430.3

Drilling Contractor: Layne Northwest Date Drilled Start: 7-30-92

Driller: Mark Backhaus Geologist: Terry March Date Completed: 7-31-92

Drilling Method: 4 1/4" I.D. HSA Drilling Fluids (type): Potable Water

Annular Space Details

Type of Surface Seal: Chipped Bentonite

Type of Annular Sealant: Chipped Bentonite

Amount of cement: # of bags ---- lbs. per bag ____

Amount of bentonite: # of bags 10 lbs. per bag 50

Type of Bentonite Seal (Granular, Pellet): High Solids Bentonite Slurry

Amount of bentonite: # of Bags 2 lbs. per bag 50

Type of Sand Pack: #5 Silica

Source of Sand: Global Drilling Suppliers Inc.

Amount of Sand: # of bags 4 lbs. per bag 50

Well Construction Materials

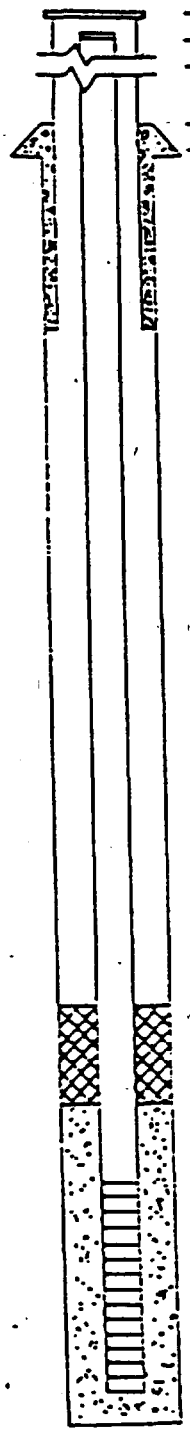
	Stainless Steel Specify Type	Teflon Specify Type	PVC Specify Type	Other Specify Type
Riser coupling joint	Flush Threaded Joint			
Riser pipe above w.t.			SCH 40	
Riser pipe below w.t.	#304		SCH 40	
Screen	#304 Wire Wound Continuous			
Coupling joint screen to riser	Flush Threaded Joint			
Protective casing				Steel

Measurements

to .01 ft. (where applicable)

Riser pipe length	54.8 ft
Protective casing length	6.5 ft
Screen length	4.6 ft
Bottom of screen to end cap	.35 ft
Top of screen to first joint	.25 ft
Total length of casing	60.0 ft
Screen slot size	No. 10 (0.010")
% of openings in screen	Continuous
Diameter of borehole (in)	8.5
ID of riser pipe (in)	2.0

Elevations — .01 ft.



744.97 MSL Top of Protective Casing
744.97 MSL Top of Riser Pipe
2.87 ft. Casing Stickup
742.1 MSL Ground Surface
0.5 ft. Top of annular sealant
45.5 ft. Top of Seal
5.0 ft. Total Seal Interval
50.5 ft. Top of Sand
51.9 ft. Top of Screen
5.2 ft. Total Screen Interval
57.1 ft. Bottom of Screen
58.5 ft. Bottom of Borehole

Completed by: R.J. Ramsby/J.E. Moser Surveyed by: Land Surveys Limited Ill. registration # 035-002742

ATTACHMENT B

Illinois Environmental Protection Agency — **Well Completion Report**

Site #: _____ County: Winnebago Well #: W20R

Site Name: Beloit Corporation RI/FS Grid Coordinate: Northing 2114198.2 Easting 795748.4

Drilling Contractor: Layne Northwest Date Drilled Start: 7-21-92

Driller: Mark Backhaus Geologist: Terry March Date Completed: 7-21-92

Drilling Method: 4 1/4" I.D. HSA Drilling Fluids (type): None

Annular Space Details

Type of Surface Seal: Bentonite Granules

Type of Annular Sealant: Bentonite Granules

Amount of cement: # of bags --- lbs. per bag ____

Amount of bentonite: # of bags 7 lbs. per bag 50

Type of Bentonite Seal (Granular, Pellet): Bentonite Granules

Amount of bentonite: # of Bags -- lbs. per bag ____

Type of Sand Pack: #5 Silica

Source of Sand: Global Drilling Suppliers Inc.

Amount of Sand: # of bags 9 lbs. per bag 50

Well Construction Materials

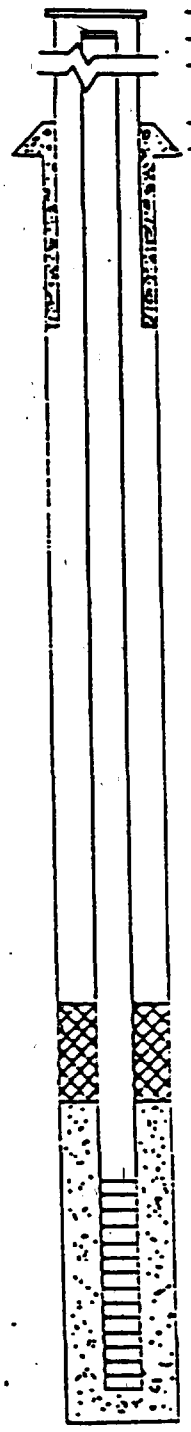
	Stainless Steel Specify Type	Teflon Specify Type	PVC Specify Type	Other Specify Type
Riser coupling joint	Flush Threaded Joint			
Riser pipe above w.t.			SCH 40	
Riser pipe below w.t.	NA			
Screen	#304 Wire Wound Continuous			
Coupling joint screen to riser	Flush Threaded Joint			
Protective casing				Steel

Measurements

to .01 ft. (where applicable)

Riser pipe length	19.8 ft
Protective casing length	6.5 ft
Screen length	9.6 ft
Bottom of screen to end cap	.35 ft
Top of screen to first joint	.25 ft
Total length of casing	30.0 ft
Screen slot size	No. 10 (0.010")
% of openings in screen	Continuous
Diameter of borehole (in)	8.5
ID of riser pipe (in)	2.0

Elevations — .01 ft.



746.87 MSL Top of Protective Casing
746.58 MSL Top of Riser Pipe
2.68 ft. Casing Stickup
743.9 MSL Ground Surface
0.5 ft. Top of annular sealant
0.5 ft. Top of Seal
15.5 ft. Total Seal Interval
16.0 ft. Top of Sand
17.1 ft. Top of Screen
10.2 ft. Total Screen Interval
27.3 ft. Bottom of Screen
28.5 ft. Bottom of Borehole

Completed by: R.J. Ramsby/J.E. Moser Surveyed by: Land Surveys Limited Ill. registration # 035-002742

ATTACHMENT B

Illinois Environmental Protection Agency — **Well Completion Report**

Site #: _____ County: Winnebago Well #: W20B

Site Name: Beloit Corporation RI/FS Grid Coordinate: Northing 2114207.4 Easting 795746.7

Drilling Contractor: Layne Northwest Date Drilled Start: 7-28-92

Driller: Mark Backhaus Geologist: Terry March Date Completed: 7-29-92

Drilling Method: 4 1/4" I.D. HSA Drilling Fluids (type): Potable Water

Annular Space Details

Type of Surface Seal: Chipped Bentonite

Type of Annular Sealant: Chipped Bentonite

Amount of cement: # of bags --- lbs. per bag ___

Amount of bentonite: # of bags 6 lbs. per bag 50

Type of Bentonite Seal (Granular, Pellet): High Solids Bentonite Slurry

Amount of bentonite: # of Bags 2 lbs. per bag 50

Type of Sand Pack: #5 Silica

Source of Sand: Global Drilling Suppliers Inc.

Amount of Sand: # of bags 4 lbs. per bag 50

Well Construction Materials

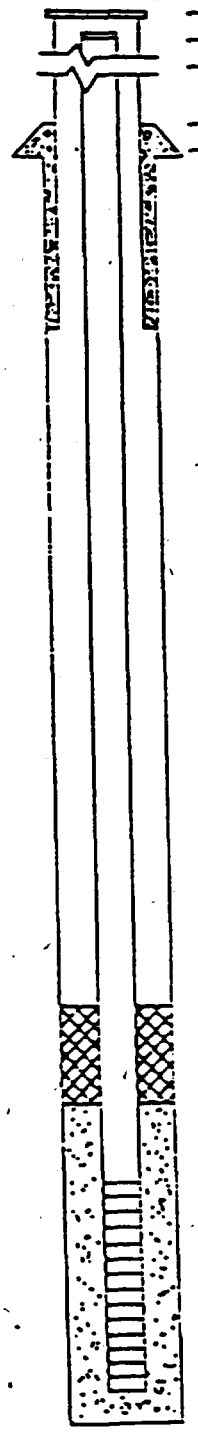
	Stainless Steel Specify Type	Teflon Specify Type	PVC Specify Type	Other Specify Type
Riser coupling joint	Flush Threaded Joint			
Riser pipe above w.t.			SCH 40	
Riser pipe below w.t.	#304		SCH 40	
Screen	#304 Wire Wound Continuous			
Coupling joint screen to riser	Flush Threaded Joint			
Protective casing				Steel

Measurements

to .01 ft. (where applicable)

Riser pipe length	49.7 ft
Protective casing length	6.5 ft
Screen length	4.6 ft
Bottom of screen to end cap	.35 ft
Top of screen to first joint	.25 ft
Total length of casing	54.9 ft
Screen slot size	No. 10 (0.010")
% of openings in screen	Continuous
Diameter of borehole (in)	8.5
ID of riser pipe (in)	2.0

Elevations — .01 ft.



747.22 MSL Top of Protective Casing
747.11 MSL Top of Riser Pipe
3.21 ft. Casing Stickup
743.9 MSL Ground Surface
0.5 ft. Top of annular sealant
40.5 ft. Top of Seal
4.9 ft. Total Seal Interval
45.4 ft. Top of Sand
46.5 ft. Top of Screen
5.2 ft. Total Screen Interval
51.7 ft. Bottom of Screen
58.5 ft. Bottom of Borehole

Completed by: R.J. Ramsby/J.E. Moser Surveyed by: Land Surveys Limited Ill. registration # 035-002742

ATTACHMENT B

Illinois Environmental Protection Agency — **Well Completion Report**

Site #: _____ County: Winnebago Well #: W21

Site Name: Beloit Corporation RI/FS Grid Coordinate: Northing 2114472.9 Easting 795972.7

Drilling Contractor: Layne Northwest Date Drilled Start: 7-20-92

Driller: Mark Backhaus Geologist: Terry March Date Completed: 7-20-92

Drilling Method: 4 1/4" I.D. HSA Drilling Fluids (type): None

Annular Space Details

Type of Surface Seal: Bentonite Granules

Type of Annular Sealant: Bentonite Granules

Amount of cement: # of bags --- lbs. per bag ____

Amount of bentonite: # of bags 7 lbs. per bag 50

Type of Bentonite Seal (Granular, Pellet): Bentonite Granules

Amount of bentonite: # of Bags --- lbs. per bag ____

Type of Sand Pack: #5 Silica

Source of Sand: Global Drilling Suppliers Inc.

Amount of Sand: # of bags 7 lbs. per bag 50

Well Construction Materials

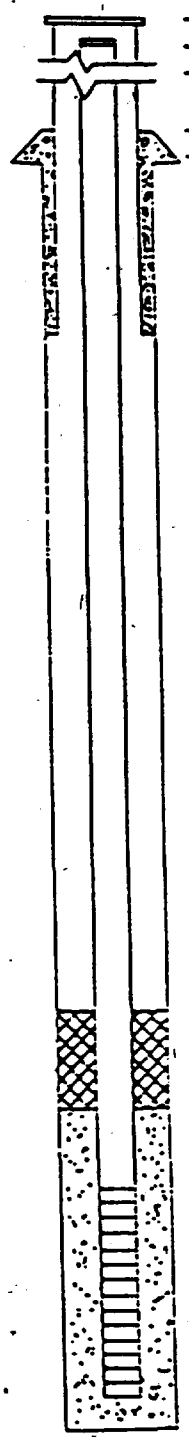
	Stainless Steel Specify Type	Teflon Specify Type	PVC Specify Type	Other Specify Type
Riser coupling joint	Flush Threaded Joint			
Riser pipe above w.t.			SCH 40	
Riser pipe below w.t.	NA			
Screen	#304 Wire Wound Continuous			
Coupling joint screen to riser	Flush Threaded Joint			
Protective casing				Steel

Measurements

to .01 ft. (where applicable)

Riser pipe length	22.3 ft
Protective casing length	6.5 ft
Screen length	9.6 ft
Bottom of screen to end cap	.35 ft
Top of screen to first joint	.25 ft
Total length of casing	32.5 ft
Screen slot size	No. 10 (0.010")
% of openings in screen	Continuous
Diameter of borehole (in)	8.5
ID of riser pipe (in)	2.0

Elevations — .01 ft.



750.36 MSL Top of Protective Casing
750.29 MSL Top of Riser Pipe
2.49 ft. Casing Stickup
747.8 MSL Ground Surface
0.5 ft. Top of annular sealant
0.5 ft. Top of Seal
17.5 ft. Total Seal Interval
18.0 ft. Top of Sand
19.8 ft. Top of Screen
10.2 ft. Total Screen Interval
30.0 ft. Bottom of Screen
30.0 ft. Bottom of Borehole

Completed by: R.J. Ramsby/J.E. Moser Surveyed by: Land Surveys Limited Ill. registration # 035-002742

ATTACHMENT B

Illinois Environmental Protection Agency — **Well Completion Report**

Site #: _____ County: Winnebago Well #: W21B

Site Name: Beloit Corporation RI/FS Grid Coordinate: Northing 2114467.1 Easting 795974.5

Drilling Contractor: Layne Northwest Date Drilled Start: 8-3-92

Driller: Mark Backhaus Geologist: T. Dushek Date Completed: 8-4-92

Drilling Method: 4 1/4" I.D. HSA Drilling Fluids (type): Potable Water

Annular Space Details

Type of Surface Seal: Bentonite Granules

Type of Annular Sealant: Bentonite Slurry

Amount of cement: # of bags --- lbs. per bag ____

Amount of bentonite: # of bags 2 lbs. per bag 50

Type of Bentonite Seal (Granular, Pellet): Bentonite Slurry

Amount of bentonite: # of Bags --- lbs. per bag ____

Type of Sand Pack: #5 Silica

Source of Sand: Global Drilling Suppliers Inc.

Amount of Sand: # of bags 3 lbs. per bag 50

Well Construction Materials

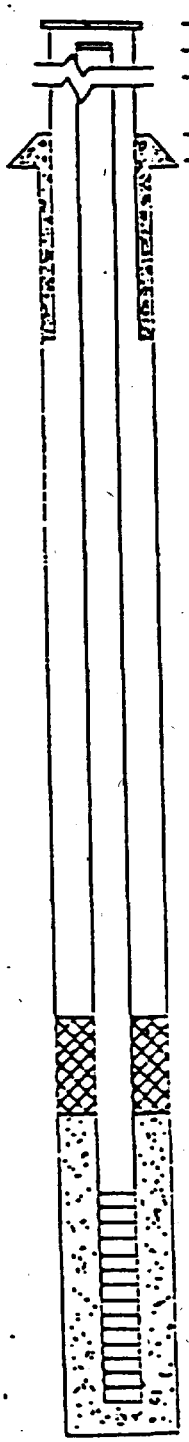
	Stainless Steel Specify Type	Teflon Specify Type	PVC Specify Type	Other Specify Type
Riser coupling joint	Flush Threaded Joint			
Riser pipe above w.t.			SCH 40	
Riser pipe below w.t.	#304		SCH 40	
Screen	#304 Wire Wound Continuous			
Coupling joint screen to riser	Flush Threaded Joint			
Protective casing				Steel

Measurements

to .01 ft. (where applicable)

Riser pipe length	57.5 ft
Protective casing length	8.0 ft
Screen length	4.6 ft
Bottom of screen to end cap	.35 ft
Top of screen to first joint	.25 ft
Total length of casing	62.7 ft
Screen slot size	No. 10 (0.010")
% of openings in screen	Continuous
Diameter of borehole (in)	8.5
ID of riser pipe (in)	2.0

Elevations — .01 ft.



750.54 MSL Top of Protective Casing
750.39 MSL Top of Riser Pipe
2.59 ft. Casing Stickup
747.8 MSL Ground Surface
0.5 ft. Top of annular sealant
47.5 ft. Top of Seal
5.5 ft. Total Seal Interval
53.0 ft. Top of Sand
54.9 ft. Top of Screen
5.2 ft. Total Screen Interval
60.1 ft. Bottom of Screen
60.3 ft. Bottom of Borehole

Completed by: R.J. Ramsby/J.E. Moser Surveyed by: Land Surveys Limited Ill. registration # 035-002742

ATTACHMENT B

Illinois Environmental Protection Agency — **Well Completion Report**

Site #: _____ County: Winnebago Well #: W22

Site Name: Beloit Corporation RI/FS Grid Coordinate: Northing 2114216.6 Easting 796509.5

Drilling Contractor: Layne Northwest Date Drilled Start: 7-20-92

Driller: Mark Backhaus Geologist: Terry March Date Completed: 7-20-92

Drilling Method: 4 1/4" I.D. HSA Drilling Fluids (type): None

Annular Space Details

Type of Surface Seal: Bentonite Granules

Type of Annular Sealant: Bentonite Granules

Amount of cement: # of bags --- lbs. per bag ____

Amount of bentonite: # of bags 10 lbs. per bag 50

Type of Bentonite Seal (Granular, Pellet): Bentonite Granules

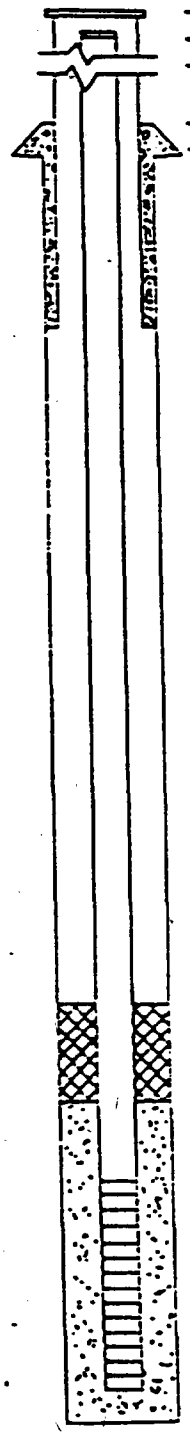
Amount of bentonite: # of Bags --- lbs. per bag ____

Type of Sand Pack: #5 Silica

Source of Sand: Global Drilling Suppliers Inc.

Amount of Sand: # of bags 12 lbs. per bag 50

Elevations — .01 ft.



758.05 MSL Top of Protective Casing

757.93 MSL Top of Riser Pipe

3.03 ft. Casing Stickup

754.9 MSL Ground Surface

0.5 ft. Top of annular sealant

0.5 ft. Top of Seal

22.0 ft. Total Seal Interval

22.5 ft. Top of Sand

24.3 ft. Top of Screen

10.2 ft. Total Screen Interval

34.5 ft. Bottom of Screen

41.0 ft. Bottom of Borehole

Well Construction Materials

	Stainless Steel Specify Type	Teflon Specify Type	PVC Specify Type	Other Specify Type
Riser coupling joint	Flush Threaded Joint			
Riser pipe above w.t.			SCH 40	
Riser pipe below w.t.	NA			
Screen	#304 Wire Wound Continuous			
Coupling joint screen to riser	Flush Threaded Joint			
Protective casing				Steel

Measurements

to .01 ft. (where applicable)

Riser pipe length	27.3 ft
Protective casing length	6.5 ft
Screen length	9.6 ft
Bottom of screen to end cap	.35 ft
Top of screen to first joint	.25 ft
Total length of casing	37.5 ft
Screen slot size	No. 10 (0.010")
% of openings in screen	Continuous
Diameter of borehole (in)	8.5
ID of riser pipe (in)	2.0

Completed by: R.J. Ramsby/J.E. Moser Surveyed by: Land Surveys Limited Ill. registration # 035-002742

ATTACHMENT B

Illinois Environmental Protection Agency — **Well Completion Report**

Site #: _____ County: Winnebago Well #: W22B

Site Name: Beloit Corporation RI/FS Grid Coordinate: Northing 2114209.9 Easting 796506.9

Drilling Contractor: Layne Northwest Date Drilled Start: 8-7-92

Driller: L. Stewart Geologist: R. J. Ramsby Date Completed: 8-7-92

Drilling Method: Dual Tube Reverse Circulation Drilling Fluids (type): Air

Annular Space Details

Type of Surface Seal: Granular Bentonite

Type of Annular Sealant: Chipped Bentonite

Amount of cement: # of bags --- lbs. per bag ___

Amount of bentonite: # of bags 4 lbs. per bag 50

Type of Bentonite Seal (Granular, Pellet): Chipped Bentonite

Amount of bentonite: # of Bags 2 lbs. per bag 50

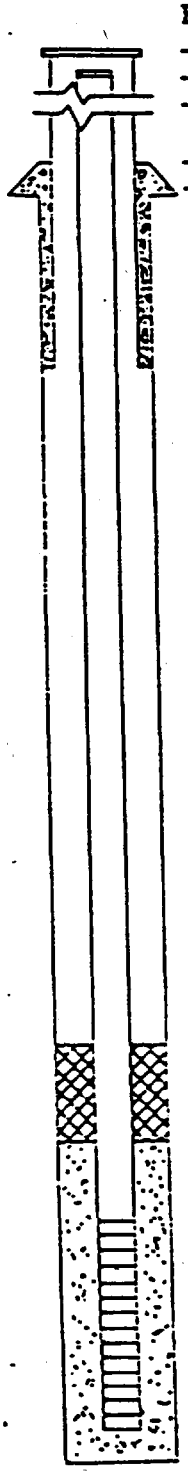
Type of Sand Pack: #5 Silica

Source of Sand: Global Drilling Suppliers Inc.

Amount of Sand: # of bags 4 lbs. per bag 50

Elevations — .01 ft.

758.28 MSL Top of Protective Casing
758.13 MSL Top of Riser Pipe
3.23 ft. Casing Stickup
754.9 MSL Ground Surface
5.0 ft. Top of annular sealant



5.0 ft. Top of Seal
48.0 ft. Total Seal Interval
53.0 ft. Top of Sand
55.0 ft. Top of Screen
5.2 ft. Total Screen Interval
60.2 ft. Bottom of Screen
61.0 ft. Bottom of Borehole

Well Construction Materials

	Stainless Steel Specify Type	Teflon Specify Type	PVC Specify Type	Other Specify Type
Riser coupling joint	Flush Threaded Joint			
Riser pipe above w.t.			SCH 40	
Riser pipe below w.t.	#304		SCH 40	
Screen	#304 Wire Wouhd Continuous			
Coupling joint screen to riser	Flush Threaded Joint			
Protective casing				Steel

Measurements

to .01 ft. (where applicable)

Riser pipe length	58.2 ft
Protective casing length	8.0 ft
Screen length	4.6 ft
Bottom of screen to end cap	.35 ft
Top of screen to first joint	.25 ft
Total length of casing	63.4 ft
Screen slot size	No. 10 (0.010")
% of openings in screen	Continuous
Diameter of borehole (in)	6.5
ID of riser pipe (in)	2.0

Completed by: R.J. Ramsby/J.E. Moser Surveyed by: Land Surveys Limited Ill. registration # 035-002742

ATTACHMENT B

Illinois Environmental Protection Agency — **Well Completion Report**

Site #: _____ County: Winnebago Well #: W22C

Site Name: Beloit Corporation RI/FS Grid Coordinate: Northing 2114210.1 Easting 796514.5

Drilling Contractor: Layne Northwest Date Drilled Start: 8-6-92

Driller: L. Stewart Geologist: R.J. Ramsby Date Completed: 8-7-92

Drilling Method: Dual Tube Reverse Circulation Drilling Fluids (type): Air

Annular Space Details

Type of Surface Seal: Granular Bentonite

Type of Annular Sealant: Chipped Bentonite

Amount of cement: # of bags -- lbs. per bag ____

Amount of bentonite: # of bags 6 lbs. per bag 50

Type of Bentonite Seal (Granular, Pellet): Chipped Bentonite

Amount of bentonite: # of Bags 2 lbs. per bag 50

Type of Sand Pack: #5 Silica

Source of Sand: Global Drilling Suppliers Inc.

Amount of Sand: # of bags 4 lbs. per bag 50

Well Construction Materials

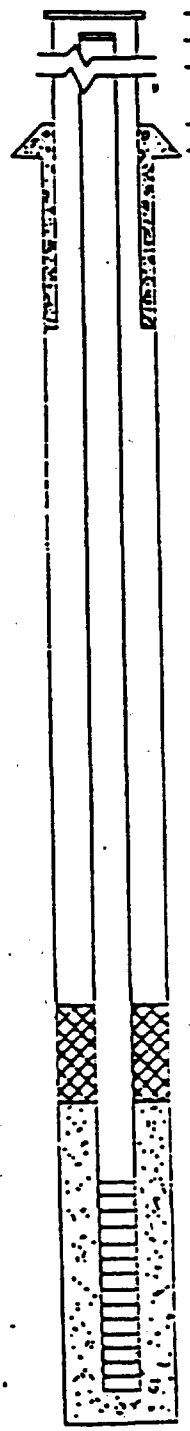
	Stainless Steel Specify Type	Teflon Specify Type	PVC Specify Type	Other Specify Type
Riser coupling joint	Flush Threaded Joint			
Riser pipe above w.t.			SCH 40	
Riser pipe below w.t.	#304		SCH 40	
Screen	#304 Wire Wound Continuous			
Coupling joint screen to riser	Flush Threaded Joint			
Protective casing				Steel

Measurements

to .01 ft. (where applicable)

Riser pipe length	70.7 ft
Protective casing length	5.0 ft
Screen length	4.6 ft
Bottom of screen to end cap	.35 ft
Top of screen to first joint	.25 ft
Total length of casing	75.9 ft
Screen slot size	No. 10 (0.010")
% of openings in screen	Continuous
Diameter of borehole (in)	6.5
ID of riser pipe (in)	2.0

Elevations — .01 ft.



757.96 MSL Top of Protective Casing
757.71 MSL Top of Riser Pipe
2.81 ft. Casing Stickup
754.9 MSL Ground Surface
3.0 ft. Top of annular sealant
3.0 ft. Top of Seal
62.0 ft. Total Seal Interval
65.0 ft. Top of Sand
67.9 ft. Top of Screen
5.2 ft. Total Screen Interval
73.1 ft. Bottom of Screen
105.0 ft. Bottom of Borehole

Completed by: R.J. Ramsby/J.E. Moser Surveyed by: Land Surveys Limited Ill. registration # 035-002742

ATTACHMENT B

Illinois Environmental Protection Agency — **Well Completion Report**

Site #: _____ County: Winnebago Well #: W23

Site Name: Beloit Corporation RI/FS Grid Coordinate: Northing 2115143.4 Easting 796336.9

Drilling Contractor: Layne Northwest Date Drilled Start: 7-24-92

Driller: Mark Backhaus Geologist: T. March Date Completed: 7-27-92

Drilling Method: 4 1/4" I.D. HSA Drilling Fluids (type): None

Annular Space Details

Type of Surface Seal: Cement

Type of Annular Sealant: Bentonite Granules

Amount of cement: # of bags --- lbs. per bag ___

Amount of bentonite: # of bags ___ lbs. per bag 50

Type of Bentonite Seal (Granular, Pellet): Bentonite Granules

Amount of bentonite: # of Bags --- lbs. per bag ___

Type of Sand Pack: #5 Silica

Source of Sand: Global Drilling Suppliers Inc.

Amount of Sand: # of bags 8 lbs. per bag 50

Well Construction Materials

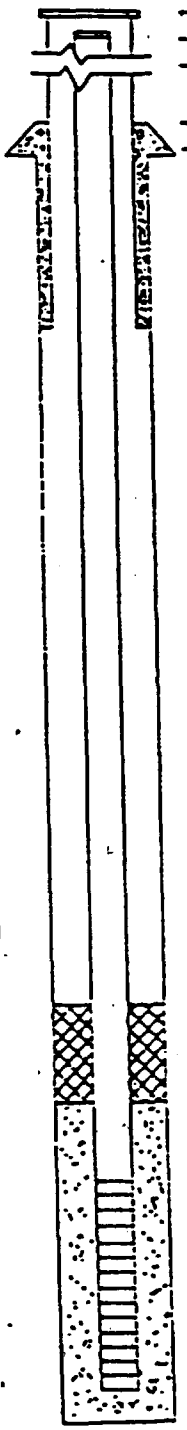
	Stainless Steel Specify Type	Teflon Specify Type	PVC Specify Type	Other Specify Type
Riser coupling joint	Flush Threaded Joint			
Riser pipe above w.t.			SCH 40	
Riser pipe below w.t.	NA			
Screen	#304 Wire Wound Continuous			
Coupling joint screen to riser	Flush Threaded Joint			
Protective casing				Aluminum

Measurements

to .01 ft. (where applicable)

Riser pipe length	23.4 ft
Protective casing length	Flush Mount
Screen length	9.6 ft
Bottom of screen to end cap	.35 ft
Top of screen to first joint	.25 ft
Total length of casing	33.6 ft
Screen slot size	No. 10 (0.010")
% of openings in screen	Continuous
Diameter of borehole (in)	8.5
ID of riser pipe (in)	2.0

Elevations — .01 ft.



753.59 MSL Top of Protective Casing
-0.31 MSL Top of Riser Pipe
753.9 ft. Casing Stickup
1.5 MSL Ground Surface
ft. Top of annular sealant

1.5 ft. Top of Seal
19.5 ft. Total Seal Interval
21.0 ft. Top of Sand
23.7 ft. Top of Screen
10.2 ft. Total Screen Interval
33.9 ft. Bottom of Screen
35.0 ft. Bottom of Borehole

Completed by: R.J. Ramsby/J.E. Moser Surveyed by: Land Surveys Limited Ill. registration #: 035-002742

ATTACHMENT B

Illinois Environmental Protection Agency — **Well Completion Report**

Site #: _____ County: Winnebago Well #: W23B

Site Name: Beloit Corporation RI/FS Grid Coordinate: Northing 2115136.3 Easting 796335.1

Drilling Contractor: Layne Northwest Date Drilled Start: 8-4-92

Driller: L. Stewart Geologist: R. J. Ramsby Date Completed: 8-5-92

Drilling Method: Dual Tube Reverse Circulation Drilling Fluids (type): Air

Annular Space Details

Type of Surface Seal: Cement

Type of Annular Sealant: Chipped Bentonite

Amount of cement: # of bags --- lbs. per bag ___

Amount of bentonite: # of bags 6 lbs. per bag 50

Type of Bentonite Seal (Granular, Pellet): Chipped Bentonite

Amount of bentonite: # of Bags 2 lbs. per bag 50

Type of Sand Pack: #5 Silica

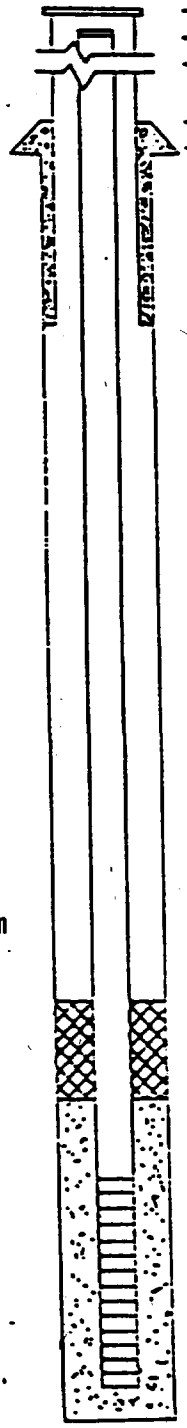
Source of Sand: Global Drilling Suppliers Inc.

Amount of Sand: # of bags 3 lbs. per bag 50

Elevations — .01 ft.

753.38 MSL Top of Protective Casing
- 0.32 MSL Top of Riser Pipe ft. Casing Stickup

753.7 MSL Ground Surface
3.0 ft. Top of annular sealant



3.0 ft. Top of Seal
39.7 ft. Total Seal Interval
42.7 ft. Top of Sand
44.6 ft. Top of Screen
5.2 ft. Total Screen Interval
49.8 ft. Bottom of Screen
79.0 ft. Bottom of Borehole

Well Construction Materials

	Stainless Steel Specify Type	Teflon Specify Type	PVC Specify Type	Other Specify Type
Riser coupling joint	Flush	Threaded	Joint	
Riser pipe above w.t.			SCH 40	
Riser pipe below w.t.	#304		SCH 40	
Screen	#304 Wire Wound Continuous			
Coupling joint screen to riser	Flush	Threaded	Joint	
Protective casing				Aluminum

Measurements

to .01 ft. (where applicable)

Riser pipe length	44.3 ft
Protective casing length	Flush Mount
Screen length	4.6 ft
Bottom of screen to end cap	.35 ft
Top of screen to first joint	.25 ft
Total length of casing	49.5 ft
Screen slot size	No. 10 (0.010")
% of openings in screen	Continuous
Diameter of borehole (in)	6.5
ID of riser pipe (in)	2.0

Completed by: R.J. Ramsby/J.E. Moser Surveyed by: Land Surveys Limited Ill. registration # 035-002742

ATTACHMENT B

Illinois Environmental Protection Agency — **Well Completion Report**

Site #: _____ County: Winnebago Well #: W24

Site Name: Beloit Corporation RI/FS Grid Coordinate: Northing 2116639.9 Easting 798933.0

Drilling Contractor: Layne Northwest Date Drilled Start: 8-20-92

Driller: M. Backhaus Geologist: R.J. Ramsby Date Completed: 8-20-92

Drilling Method: 4 1/4" I.D. HSA Drilling Fluids (type): None

Annular Space Details

Type of Surface Seal: Granular Bentonite

Type of Annular Sealant: Chipped Bentonite

Amount of cement: # of bags -- lbs. per bag ____

Amount of bentonite: # of bags 6 lbs. per bag 50

Type of Bentonite Seal (Granular, Pellet): Chipped Bentonite

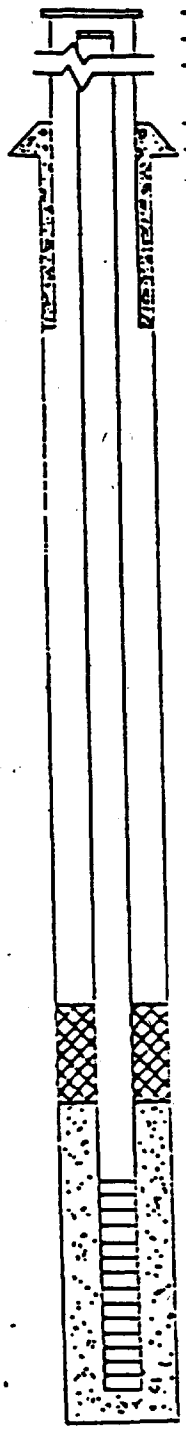
Amount of bentonite: # of Bags 2 lbs. per bag 50

Type of Sand Pack: #5 Silica

Source of Sand: Global Drilling Suppliers Inc.

Amount of Sand: # of bags 10 lbs. per bag 50

Elevations — .01 ft.



755.32 MSL Top of Protective Casing

755.44 MSL Top of Riser Pipe

3.14 ft. Casing Stickup

752.3 MSL Ground Surface

2.0 ft. Top of annular sealant

2.0 ft. Top of Seal

17.5 ft. Total Seal Interval

19.5 ft. Top of Sand

21.9 ft. Top of Screen

10.2 ft. Total Screen Interval

32.1 ft. Bottom of Screen

40.0 ft. Bottom of Borehole

Well Construction Materials

	Stainless Steel Specify Type	Teflon Specify Type	PVC Specify Type	Other Specify Type
Riser coupling joint	Flush Threaded Joint			
Riser pipe above w.t.			SCH 40	
Riser pipe below w.t.	NA			
Screen	#304 Wire Wound Continuous			
Coupling joint screen to riser	Flush Threaded Joint			
Protective casing				Steel

Measurements

to .01 ft. (where applicable)

Riser pipe length	25.0 ft
Protective casing length	8.0 ft
Screen length	9.6 ft
Bottom of screen to end cap	.35 ft
Top of screen to first joint	.25 ft
Total length of casing	35.2 ft
Screen slot size	No. 10 (0.010")
% of openings in screen	Continuous
Diameter of borehole (in)	8.5
ID of riser pipe (in)	2.0

Completed by: R.J. Ramsby/J.E. Moser Surveyed by: Land Surveys Limited Ill. registration # 035-002742

ATTACHMENT B

Illinois Environmental Protection Agency — **Well Completion Report**

Site #: _____ County: Winnebago Well #: W25C (DB1R)

Site Name: Beloit Corporation RI/FS Grid Coordinate: Northing 2113792.5 Easting 795761.0

Drilling Contractor: Layne Northwest Date Drilled Start: 8-14-92

Driller: L. Stewart Geologist: R.J.Rasmby Date Completed: 8-17-92

Drilling Method: Dual Tube Reverse Circulation Drilling Fluids (type): Air

Annular Space Details

Type of Surface Seal: Granular Bentonite

Type of Annular Sealant: Bentonite Slurry Chips

Amount of cement: # of bags -- lbs. per bag ___

Amount of bentonite: # of bags 8 lbs. per bag 50

Type of Bentonite Seal (Granular, Pellet): Chipped Bentonite

Amount of bentonite: # of Bags 2 lbs. per bag 50

Type of Sand Pack: #5 Silica

Source of Sand: Global Drilling Suppliers Inc.

Amount of Sand: # of bags 3 lbs. per bag 50

Well Construction Materials

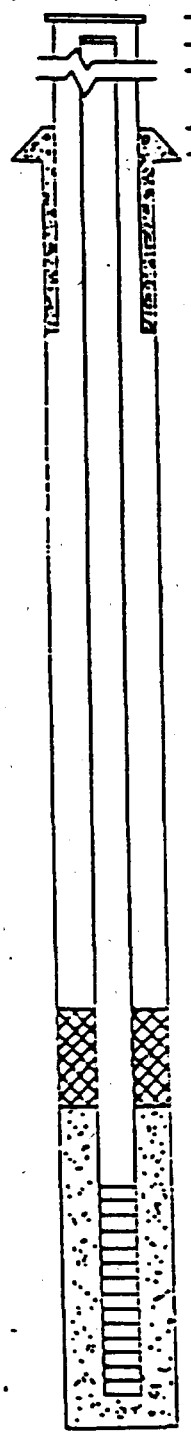
	Stainless Steel Specify Type	Teflon Specify Type	PVC Specify Type	Other Specify Type
Riser coupling joint	Flush Threaded Joint			
Riser pipe above w.t.			SCH 40	
Riser pipe below w.t.	#304		SCH 40	
Screen	#304 Wire Wound Continuous			
Coupling joint screen to riser	Flush Threaded Joint			
Protective casing				Steel

Measurements

to .01 ft. (where applicable)

Riser pipe length	70.2 ft
Protective casing length	5.0 ft
Screen length	4.6 ft
Bottom of screen to end cap	.35 ft
Top of screen to first joint	.25 ft
Total length of casing	75.4 ft
Screen slot size	No. 10 (0.010")
# of openings in screen	Continuous
Diameter of borehole (in)	6.5
ID of riser pipe (in)	2.0

Elevations — .01 ft.



746.99 MSL Top of Protective Casing
746.72 MSL Top of Riser Pipe
2.52 ft. Casing Stickup
744.2 MSL Ground Surface
3.0 ft. Top of annular sealant
3.0 ft. Top of Seal
61.8 ft. Total Seal Interval
64.8 ft. Top of Sand
67.7 ft. Top of Screen
5.2 ft. Total Screen Interval
72.9 ft. Bottom of Screen
80.0 ft. Bottom of Borehole

Completed by: R.J. Ramsby/J.E. Moser Surveyed by: Land Surveys Limited Ill. registration # 035-002742

ATTACHMENT B

Illinois Environmental Protection Agency — **Well Completion Report**

Site #: _____ County: Winnebago Well #: W26C (DB4)

Site Name: Beloit Corporation RI/FS Grid Coordinate: Northing 2113338.8 Easting 796153.6

Drilling Contractor: Layne Northwest Date Drilled Start: 7-24-92

Driller: L. Stewart Geologist: R.J. Ramsby Date Completed: 7-28-92

Drilling Method: Dual Tube Reverse Circulation Drilling Fluids (type): Air

Annular Space Details

Type of Surface Seal: Granular Bentonite

Type of Annular Sealant: Bentonite Slurry, Chips

Amount of cement: # of bags --- lbs. per bag ____

Amount of bentonite: # of bags 8 lbs. per bag 50

Type of Bentonite Seal (Granular, Pellet): Chipped Bentonite

Amount of bentonite: # of Bags 2 lbs. per bag 50

Type of Sand Pack: #5 Silica

Source of Sand: Global Drilling Suppliers Inc.

Amount of Sand: # of bags 5 lbs. per bag 50

Well Construction Materials

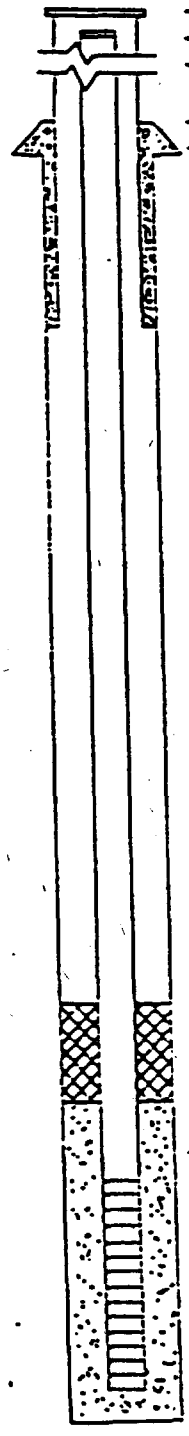
	Stainless Steel Specify Type	Teflon Specify Type	PVC Specify Type	Other Specify Type
Riser coupling joint	Flush	Threaded	Joint	
Riser pipe above w.t.			SCH 40	
Riser pipe below w.t.	#304		SCH 40	
Screen	#304 Wire Wound Continuous			
Coupling joint screen to riser	Flush	Threaded	Joint	
Protective casing				Steel

Measurements

to .01 ft. (where applicable)

Riser pipe length	74.4 ft
Protective casing length	5.0 ft
Screen length	4.6 ft
Bottom of screen to end cap	.35 ft
Top of screen to first joint	.25 ft
Total length of casing	79.6 ft
Screen slot size	No. 10 (0.010")
% of openings in screen	Continuous
Diameter of borehole (in)	6.5
ID of riser pipe (in)	2.0

Elevations — .01 ft.



754.67 MSL Top of Protective Casing
754.55 MSL Top of Riser Pipe
2.65 ft. Casing Stickup
751.9 MSL Ground Surface
3.0 ft. Top of annular sealant
62.0 ft. Top of Seal
7.4 ft. Total Seal Interval
69.4 ft. Top of Sand
71.8 ft. Top of Screen
5.2 ft. Total Screen Interval
77.0 ft. Bottom of Screen
109.5 ft. Bottom of Borehole

Completed by: R.J. Ramsby/J.E. Moser Surveyed by: Land Surveys Limited Ill. registration # 035-002742

ATTACHMENT B

Illinois Environmental Protection Agency — **Well Completion Report**

Site #: _____ County: Winnebago Well #: W27

Site Name: Beloit Corporation RI/FS Grid Coordinate: Northing 2114579.6 Easting 798024.9

Drilling Contractor: Layne Northwest Date Drilled Start: 8-18-92

Driller: L. Stewart Geologist: R.J. Ramsby Date Completed: 8-18-92

Drilling Method: Dual Tube Reverse Circulation Drilling Fluids (type): Air

Annular Space Details

Type of Surface Seal: Granular Bentonite

Type of Annular Sealant: Chipped Bentonite

Amount of cement: # of bags --- lbs. per bag ___

Amount of bentonite: # of bags 5 lbs. per bag 50

Type of Bentonite Seal (Granular, Pellet): Chipped Bentonite

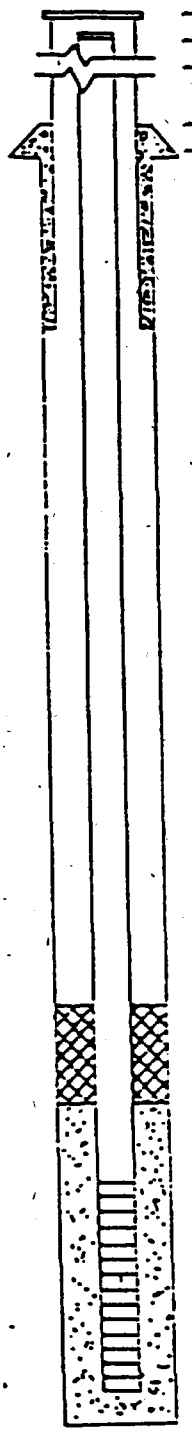
Amount of bentonite: # of Bags 2 lbs. per bag 50

Type of Sand Pack: #5 Silica

Source of Sand: Global Drilling Suppliers Inc.

Amount of Sand: # of bags 5 lbs. per bag 50

Elevations — .01 ft.



767.39 MSL Top of Protective Casing

767.22 MSL Top of Riser Pipe

2.42 ft. Casing Stickup

764.8 MSL Ground Surface

3.0 ft. Top of annular sealant

3.0 ft. Top of Seal

35.6 ft. Total Seal Interval

38.6 ft. Top of Sand

40.2 ft. Top of Screen

10.2 ft. Total Screen Interval

50.4 ft. Bottom of Screen

51.0 ft. Bottom of Borehole

Well Construction Materials

	Stainless Steel Specify Type	Teflon Specify Type	PVC Specify Type	Other Specify Type
Riser coupling joint	Flush Threaded Joint			
Riser pipe above w.t.			SCH 40	
Riser pipe below w.t.	NA			
Screen	#304 Wire Wound Continuous			
Coupling joint screen to riser	Flush Threaded Joint			
Protective casing				Steel

Measurements

to .01 ft. (where applicable)

Riser pipe length	42.6 ft
Protective casing length	5.0 ft
Screen length	9.6 ft
Bottom of screen to end cap	.35 ft
Top of screen to first joint	.25 ft
Total length of casing	52.8 ft
Screen slot size	No. 10 (0.010")
# of openings in screen	Continuous
Diameter of borehole (in)	6.5
ID of riser pipe (in)	2.0

Completed by: R.J. Ramsby/J.E. Moser Surveyed by: Land Surveys Limited Ill. registration # 035-002742

ATTACHMENT B

Illinois Environmental Protection Agency — **Well Completion Report**

Site #: _____ County: Winnebago Well #: W28

Site Name: Beloit Corporation RI/FS Grid Coordinate: Northing 2115719.2 Easting 796771.7

Drilling Contractor: Layne Northwest Date Drilled Start: 8-18-92

Driller: L. Stewart Geologist: R.J. Ramsby Date Completed: 8-18-92

Drilling Method: Dual Tube Reverse Circulation Drilling Fluids (type): Air

Annular Space Details

Type of Surface Seal: Granular Bentonite

Type of Annular Sealant: Chipped Bentonite

Amount of cement: # of bags -- lbs. per bag ____

Amount of bentonite: # of bags 3 lbs. per bag 50

Type of Bentonite Seal (Granular, Pellet): Chipped Bentonite

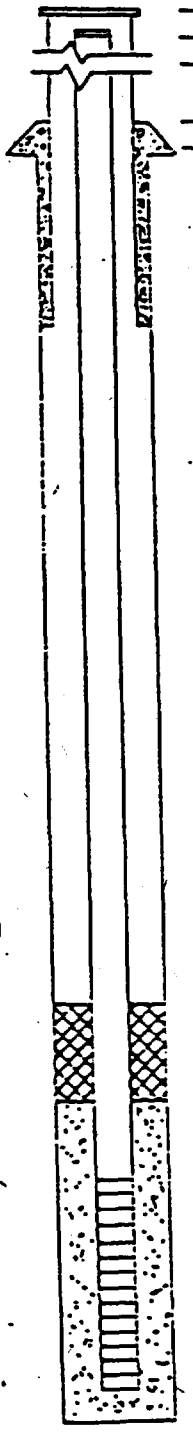
Amount of bentonite: # of Bags 2 lbs. per bag 50

Type of Sand Pack: #5 Silica

Source of Sand: Global Drilling Suppliers Inc.

Amount of Sand: # of bags 6 lbs. per bag 50

Elevations — .01 ft.



752.27 MSL Top of Protective Casing
-0.56 MSL Top of Riser Pipe
752.8 ft. Casing Stickup
2.0 MSL Ground Surface
ft. Top of annular sealant
2.0 ft. Top of Seal
18.1 ft. Total Seal Interval
20.1 ft. Top of Sand
22.2 ft. Top of Screen
10.2 ft. Total Screen Interval
32.4 ft. Bottom of Screen
37.5 ft. Bottom of Borehole

Well Construction Materials

	Stainless Steel Specify Type	Teflon Specify Type	PVC Specify Type	Other Specify Type
Riser coupling joint	Flush Threaded Joint			
Riser pipe above w.t.			SCH 40	
Riser pipe below w.t.	NA			
Screen	#304 Wire Wound Continuous			
Coupling joint screen to riser	Flush Threaded Joint			
Protective casing				Aluminum

Measurements

to .01 ft. (where applicable)

Riser pipe length	21.6 ft
Protective casing length	Flush Mount
Screen length	9.6 ft
Bottom of screen to end cap	.35 ft
Top of screen to first joint	.25 ft
Total length of casing	31.8 ft
Screen slot size	No. 10 (0.010")
# of openings in screen	Continuous
Diameter of borehole (in)	6.5
ID of riser pipe (in)	2.0

Completed by: R.J. Ramsby/J.E. Moser Surveyed by: Land Surveys Limited Ill. registration # 035-002742

ATTACHMENT B

Illinois Environmental Protection Agency — **Well Completion Report**

Site #: _____ County: Winnebago Well #: W29

Site Name: Beloit Corporation RI/FS Grid Coordinate: Northing 2113195.0 Easting 797019.3

Drilling Contractor: Layne Northwest Date Drilled Start: 8-20-92

Driller: M. Backhaus Geologist: R.J.Ramsby Date Completed: 8-20-92

Drilling Method: 4 1/4" I.D. HSA Drilling Fluids (type): None

Annular Space Details

Type of Surface Seal: Granular Bentonite

Type of Annular Sealant: Chipped Bentonite

Amount of cement: # of bags -- lbs. per bag ____

Amount of bentonite: # of bags 4 lbs. per bag 50

Type of Bentonite Seal (Granular, Pellet): Chipped Bentonite

Amount of bentonite: # of Bags 2 lbs. per bag 50

Type of Sand Pack: #5 Silica

Source of Sand: Global Drilling Suppliers Inc.

Amount of Sand: # of bags 7 lbs. per bag 50

Well Construction Materials

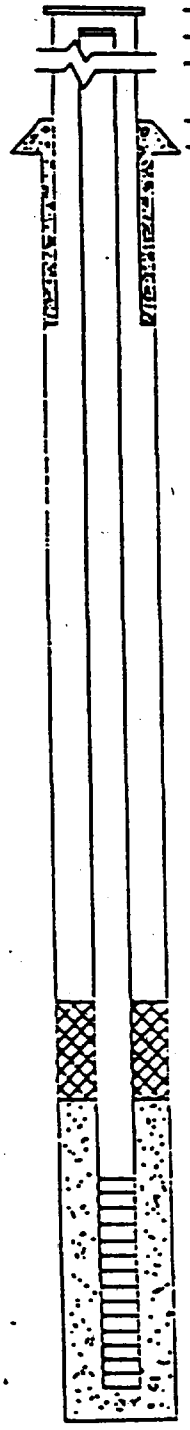
	Stainless Steel Specify Type	Teflon Specify Type	PVC Specify Type	Other Specify Type
Riser coupling joint	Flush Threaded Joint			
Riser pipe above w.t.			SCH 40	
Riser pipe below w.t.	NA			
Screen	#304 Wire Wound Continuous			
Coupling joint screen to riser	Flush Threaded Joint			
Protective casing				Steel

Measurements

to .01 ft. (where applicable)

Riser pipe length	22.7 ft
Protective casing length	8.0 ft
Screen length	9.6 ft
Bottom of screen to end cap	.35 ft
Top of screen to first joint	.25 ft
Total length of casing	32.9 ft
Screen slot size	No. 10 (0.010")
% of openings in screen	Continuous
Diameter of borehole (in)	8.5
ID of riser pipe (in)	2.0

Elevations — .01 ft.



750.12 MSL Top of Protective Casing
749.87 MSL Top of Riser Pipe
2.27 ft. Casing Stickup
747.6 MSL Ground Surface
1.0 ft. Top of annular sealant
1.0 ft. Top of Seal
17.0 ft. Total Seal Interval
18.0 ft. Top of Sand
20.4 ft. Top of Screen
10.2 ft. Total Screen Interval
30.6 ft. Bottom of Screen
31.0 ft. Bottom of Borehole

Completed by: R.J. Ramsby/J.E. Moser Surveyed by: Land Surveys Limited Ill. registration # 035-002742

D

SOIL BOREHOLE LOGS

D1 Important Information about your Geotechnical Engineering Report
General Notes
Unified Soil Classification System

D2 Water Quality Borings and Geotechnical Boring

D3 Standpipes and Monitoring Wells

D4 City of Rockton and Beloit Corporation Production Well Logs

D5 Soil Borings SB8-SB21

D6 Illinois Environmental Protection Agency Soil Boring Logs
and Well Installation Details

D1

IMPORTANT INFORMATION ABOUT YOUR GEOTECHNICAL ENGINEERING REPORT
GENERAL NOTES
UNIFIED SOIL CLASSIFICATION SYSTEM

IMPORTANT INFORMATION
ABOUT YOUR
GEOTECHNICAL ENGINEERING REPORT

More construction problems are caused by site subsurface conditions than any other factor. As troublesome as subsurface problems can be, their frequency and extent have been lessened considerably in recent years, thanks to the Association of Soil and Foundation Engineers (ASFE).

When ASFE was founded in 1969, subsurface problems were frequently being resolved through lawsuits. In fact, the situation had grown to such alarming proportions that consulting geotechnical engineers had the worst professional liability record of all design professionals. By 1980, ASFE-*member consulting soil and foundation engineers had the best professional liability record*. This dramatic turn-about can be attributed directly to client acceptance of problem-solving programs and materials developed by ASFE for its members' application. *This acceptance was gained because clients perceived the* ASFE *approach to be in their own best interests.* Disputes benefit only those who earn their living from others' disagreements.

The following suggestions and observations are offered to help you reduce the geotechnical-related delays, cost-overruns and other costly headaches that can occur during a construction project.

A GEOTECHNICAL ENGINEERING REPORT IS BASED ON A UNIQUE SET OF PROJECT-SPECIFIC FACTORS

A geotechnical engineering report is based on a subsurface exploration plan designed to incorporate a unique set of project-specific factors. These typically include: the general nature of the structure involved, its size and configuration; the location of the structure on the site and its orientation; physical concomitants such as access roads, parking lots, and underground utilities, and the level of additional risk which the client assumed by virtue of limitations imposed upon the exploratory program. To help avoid costly problems, consult the geotechnical engineer to determine how any factors which change subsequent to the date of his report may affect his recommendations.

Unless your consulting geotechnical engineer indicates otherwise, *your geotechnical engineering report should not be used*:

- When the nature of the proposed structure is changed, for example, if an office building will be erected instead of a parking garage, or if a refrigerated warehouse will be built instead of an unrefrigerated one;
- when the size or configuration of the proposed structure is altered;
- when the location or orientation of the proposed structure is modified;
- when there is a change of ownership, or
- for application to an adjacent site.

A geotechnical engineer cannot accept responsibility for problems which may develop if he is not consulted after factors considered in his report's development have changed.

MOST GEOTECHNICAL "FINDINGS" ARE PROFESSIONAL ESTIMATES

Site exploration identifies actual subsurface conditions only at those points where samples are taken, when they are taken. Data derived through sampling and subsequent laboratory testing are extrapolated by the geotechnical engineer who then renders an opinion about overall subsurface conditions, their likely reaction to proposed construction activity, and appropriate foundation design. Even under optimal circumstances actual conditions may differ from those opined to exist, because no geotechnical engineer, no matter how qualified, and no subsurface exploration program, no matter how comprehensive, can reveal what is hidden by earth, rock and time. For example, the actual interface between materials may be far more gradual or abrupt than the report indicates, and actual conditions in areas not sampled may differ from predictions. *Nothing can be done to prevent the unanticipated, but steps can be taken to help minimize their impact.* For this reason, *most experienced owners retain their geotechnical consultant through the construction stage*, to identify variances, conduct additional tests which may be needed, and to recommend solutions to problems encountered on site.

SUBSURFACE CONDITIONS CAN CHANGE

Subsurface conditions may be modified by constantly-changing natural forces. Because a geotechnical engineering report is based on conditions which existed at the time of subsurface exploration, *construction decisions should not be based on a geotechnical engineering report whose adequacy may have been affected by time.* Speak with the geotechnical consultant to learn if additional tests are advisable before construction starts.

Construction operations at or adjacent to the site and natural events such as floods, earthquakes or groundwater fluctuations may also affect subsurface conditions and, thus, the continuing adequacy of a geotechnical report. The geotechnical engineer should be kept apprised of any such events, and should be consulted to determine if additional tests are necessary.

A GEOTECHNICAL ENGINEERING REPORT IS SUBJECT TO MISINTERPRETATION

Costly problems can occur when other design professionals develop their plans based on misinterpretations of a geotechnical engineering report. To help avoid these problems, the geotechnical engineer should be retained to work with other appropriate design professionals to explain relevant geotechnical findings and to review the adequacy

of their plans and specifications relative to geotechnical issues.

BORING LOGS SHOULD NOT BE SEPARATED FROM THE ENGINEERING REPORT

Final boring logs are developed by the geotechnical engineer based upon his interpretation of field logs (assembled by site personnel) and laboratory evaluation of field samples. Only final boring logs customarily are included in geotechnical engineering reports. *These logs should not under any circumstances be redrawn* for inclusion in architectural or other design drawings, because drafters may commit errors or omissions in the transfer process. Although photographic reproduction eliminates this problem, it does nothing to minimize the possibility of contractors misinterpretating the logs during bid preparation. When this occurs, delays, disputes and unanticipated costs are the all-too-frequent result.

To minimize the likelihood of boring log misinterpretation, *give contractors ready access to the complete geotechnical engineering report*. Those who do not provide such access may proceed under the *mistaken* impression that simply disclaiming responsibility for the accuracy of subsurface information always insulates them from attendant liability. Providing the best available information to contractors helps prevent costly construction problems and the adversarial attitudes which aggravate them to disproportionate scale.

READ RESPONSIBILITY CLAUSES CLOSELY

Because geotechnical engineering is based extensively on judgement and opinion, it is far less exact than other design disciplines. This situation has resulted in wholly unwarranted claims being lodged against geotechnical consultants. To help prevent this problem, geotechnical engineers have developed model clauses for use in written transmittals. These are *not* exculpatory clauses designed to foist the geotechnical engineer's liabilities onto someone else. Rather, they are definitive clauses which identify where the geotechnical engineer's responsibilities begin and end. Their use helps all parties involved recognize their individual responsibilities and take appropriate action. Some of these definitive clauses are likely to appear in your geotechnical engineering report, and you are encouraged to read them closely. Your geotechnical engineer will be pleased to give full and frank answers to your questions.

OTHER STEPS YOU CAN TAKE TO REDUCE RISK

Your consulting geotechnical engineer will be pleased to discuss other techniques which can be employed to mitigate risk. In addition, the Association of Soil and Foundation Engineers has developed a variety of materials which may be beneficial. Contact ASFE for a complimentary copy of its publications directory.

Published by

ASFE

ASSOCIATION OF SOIL AND FOUNDATION ENGINEERS

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Silver Spring, Maryland 20910
301/565-2733

WARZYN

Warzyn Engineering Inc.
One Science Court
University Research Park
P.O. Box 5385
Madison, Wisconsin 53705
(608) 273-0440
Wis. Toll Free (800) 362-5005

LOG OF TEST BORING

General Notes

Descriptive Soil Classification

GRAIN SIZE TERMINOLOGY

Soil Fraction	Particle Size	U.S. Standard Sieve Size
Boulders	Larger than 12"	Larger than 12"
Cobbles	3" to 12"	3" to 12"
Gravel: Coarse	¾" to 3"	¾" to 3"
Fine	4.76 mm to ¾"	#4 to ¾"
Sand: Coarse	2.00 mm to 4.76 mm	#10 to #4
Medium	0.42 mm to 2.00 mm	#40 to #10
Fine	0.074 mm to 0.42 mm	#200 to #40
Silt	0.005 mm to 0.074 mm	Smaller than #200
Clay	Smaller than 0.005 mm	Smaller than #200

Plasticity characteristics differentiate between silt and clay.

GENERAL TERMINOLOGY

Physical Characteristics
Color, moisture, grain shape, fineness, etc.

Major Constituents
Clay, silt, sand, gravel

Structure
Laminated, varved, fibrous, stratified, cemented, fissured, etc.

Geologic Origin
Glacial, alluvial, eolian, residual, etc.

RELATIVE DENSITY

Term	"N" Value
Very Loose	0-4
Loose	4-10
Medium Dense	10-30
Dense	30-50
Very Dense	Over 50

RELATIVE PROPORTIONS OF COHESIONLESS SOILS

Proportional Term	Defining Range By Percentage of Weight
Trace	0%- 5%
Little	5%-12%
Some	12%-35%
And	35%-50%

CONSISTENCY

Term	q_u-tons/sq. ft.
Very Soft	0.0 to 0.25
Soft	0.25 to 0.50
Medium	0.50 to 1.0
Stiff	1.0 to 2.0
Very Stiff	2.0 to 4.0
Hard	Over 4.0

ORGANIC CONTENT BY COMBUSTION METHOD

Soil Description	Loss on Ignition
Non Organic	Less than 4%
Organic Silt/Clay	4-12%
Sedimentary Peat	12-50%
Fibrous and Woody Peat	More than 50%

PLASTICITY

Term	Plastic Index
None to Slight	0-4
Slight	5-7
Medium	8-22
High to Very High	Over 22

The penetration resistance, N, is the summation of the number of blows required to effect two successive 6" pentrations of the 2" split-barrel sampler. The sampler is driven with a 140 lb. weight falling 30" and is seated to a depth of 6" before commencing the standard penetration test.

Symbols

DRILLING AND SAMPLING

CS—Continuous Sampling
RC—Rock Coring: Size AW, BW, NW, 2" W
RQD—Rock Quality Designator
RB—Rock Bit
FT—Fish Tail
DC—Drove Casing
C—Casing: Size 2½", NW, 4", HW
CW—Clear Water
DM—Drilling Mud
HSA—Hollow Stem Auger
FA—Flight Auger
HA—Hand Auger
COA—Clean-Out Auger
SS—2" Diameter Split-Barrel Sample
2ST—2" Diameter Thin-Walled Tube Sample
3ST—3" Diameter Thin-Walled Tube Sample
PT—3" Diameter Piston Tube Sample
AS—Auger Sample
WS—Wash Sample
PTS—Peat Sample
PS—Pitcher Sample
NR—No Recovery
S—Sounding
PMT—Borehole Pressuremeter Test
VS—Vane Shear Test
WPT—Water Pressure Test

LABORATORY TESTS

q_p—Penetrometer Reading, tons/sq. ft.
q_u—Unconfined Strength, tons/sq. ft.
W—Moisture Content, %
LL—Liquid Limit, %
PL—Plastic Limit, %
SL—Shrinkage Limit, %
LI—Loss on Ignition, %
D—Dry Unit Weight, lbs./cu. ft.
pH—Measure of Soil Alkalinity or Acidity
FS—Free Swell, %

WATER LEVEL MEASUREMENT

▽—Water Level at time shown
NW—No Water Encountered
WD—While Drilling
BCR—Before Casing Removal
ACR—After Casing Removal
CW—Caved and Wet
CM—Caved and Moist

Note: Water level measurements shown on the boring logs represent conditions at the time indicated and may not reflect static levels, especially in cohesive soils.

UNIFIED SOIL CLASSIFICATION SYSTEM

COARSE-GRAINED SOILS

(More than half of material is larger than No. 200 seive size.)

GRAVELS More than half of coarse fraction larger than No. 4 sieve size	**Clean Gravels** (Little or no fines)	
	GW	Well-graded gravels, gravel-sand mixtures, little or no fines
	GP	Poorly graded gravels, gravel-sand mixtures, little or no fines
	Gravels with Fines (Appreciable amount of fines)	
	GM $^{d}_{u}$	Silty gravels, gravel-sand-silt mixtures
	GC	Clayey gravels, gravel-sand-clay mixtures
SANDS More than half of coarse fraction smaller than No. 4 sieve size	**Clean Sands** (Little or no fines)	
	SW	Well-graded sands, gravelly sands, little or no fines
	SP	Poorly graded sands, gravelly sands, little or no fines
	Sands with Fines (Appreciable amount of fines)	
	SM $^{d}_{u}$	Silty sands, sand-silt mixtures
	SC	Clayey sands, sand-clay mixtures

FINE-GRAINED SOILS

(More than half of material is smaller than No. 200 sieve.)

SILTS AND CLAYS Liquid limit less than 50%	**ML**	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity
	CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays
	OL	Organic silts and organic silty clays of low plasticity
SILTS AND CLAYS Liquid limit greater than 50%	**MH**	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts
	CH	Inorganic clays of high plasticity, fat clays
	OH	Organic clays of medium to high plasticity, organic silts
HIGHLY ORGANIC SOILS	**PT**	Peat and other highly organic soils

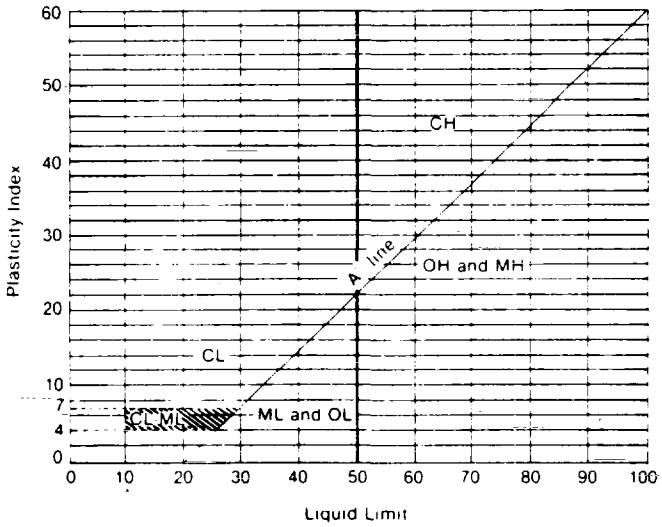
LABORATORY CLASSIFICATION CRITERIA

GW	$C_u = \frac{D_{60}}{D_{10}}$ greater than 4; $C_C = \frac{(D_{30})^2}{D_{10} \times D_{60}}$ between 1 and 3	
GP	Not meeting all gradation requirements for GW	
GM	Atterberg limits below "A" line or P.I. less than 4	Above "A" line with P.I. between 4 and 7 are borderline cases requiring use of dual symbols
GC	Atterberg limits above "A" line with P.I. greater than 7	
SW	$C_u = \frac{D_{60}}{D_{10}}$ greater than 6; $C_C = \frac{(D_{30})^2}{D_{10} \times D_{60}}$ between 1 and 3	
SP	Not meeting all gradation requirements for SW	
SM	Atterberg limits below "A" line or P.I. less than 4	Limits plotting in hatched zone with P.I. between 4 and 7 are borderline cases requiring use of dual symbols.
SC	Atterberg limits above "A" line with P.I. greater than 7	

Determine percentages of sand and gravel from grain-size curve. Depending on percentage of fines (fraction smaller than No. 200 sieve size), coarse-grained soils are classified as follows:

Less than 5 per cent	GW, GP, SW, SP
More than 12 per cent	GM, GC, SM, SC
5 to 12 per cent	Borderline cases requiring dual symbols

PLASTICITY CHART



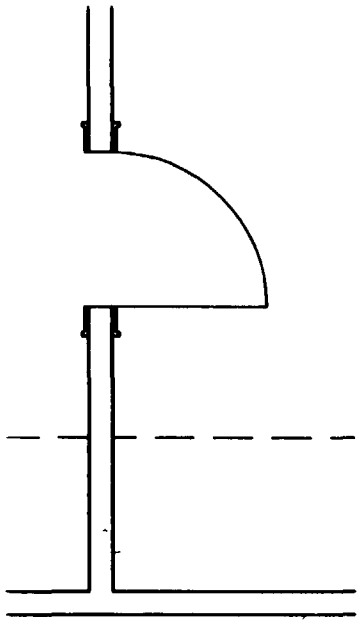
For classification of fine-grained soils and fine fraction of coarse-grained soils.

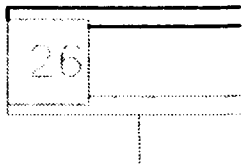
Atterberg Limits plotting in hatched area are borderline classifications requiring use of dual symbols.

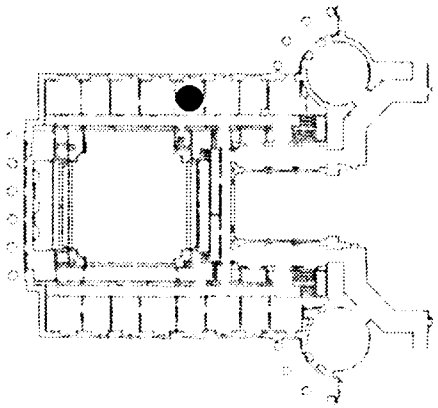
Equation of A-line: PI = 0.73 (LL - 20)

D2

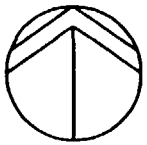
WATER QUALITY BORINGS AND GEOTECHNICAL BORING







THIRD FLOOR PLAN



TOL — RESTORATION AND RENOVATION
NSTRUCTION

State of Wisconsin Project No.: 9109-26.3

JULY 6, 1993

ROOM 327W. 1

WARZYN

LOG OF TEST BORING

Project: Beloit Corporation RI/FS

Location: Rockton, Illinois

Boring No. IB01
Surface Elevation 754.2
Job No. 1526892
Sheet 1 of 2

ONE SCIENCE COURT, P.O. BOX 5385, MADISON, WI 53705 (608) 231-4747

SAMPLE					VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES					
No.	TYPE	Rec (in.)	Moist	N	Depth		PID	Total VOCs	Qu	LL	PL	P200
					Dark Brown Sandy SILT (TOPSOIL)							
					Fine to Coarse GRAVEL, Trace to Little Sand (GM)							
					5							
					10							
					Brown Fine SAND, Trace Silt (SP)							
					15							
					20							
					25							
					Medium to Coarse SAND and GRAVEL, Trace to Little Silt, Trace Clay (SP-SM/GP-GM)							
					30							
					35							
					40							

WATER LEVEL OBSERVATIONS

While Drilling ▽ ____ ft. Upon Completion of Drilling ____ ft.
Time After Drilling ____ ____ ____ ____
Depth to Water ____ ____ ____ ____ ▼
Depth to Cave in ____ ____ ____ ____

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

GENERAL NOTES

Start 8/13/92 End 8/14/92
Driller Layne NW Chief Stewart Rig TH-60
Logger RJR Editor RJR/JEM
Drill Method Dual Tube

LOG OF TEST BORING

WARZYN

Project: Beloit Corporation RI/FS

Location: Rockton, Illinois

Boring No. IB01
Surface Elevation 754.2
Job No. 1526892
Sheet 2 of 2

ONE SCIENCE COURT P.O. BOX 5385, MADISON, WI 53705 (608) 231-4747

SAMPLE					VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES					
No.	TYPE	Rec (in.)	Moist	N	Depth	PID	Total VOCs	Qu	LL	PL	P200
					45						
					50						
					55						
					60						
					Brown Medium to Coarse SAND, Trace to Little Gravel (SP)						
					65						
					70 End of Boring at 69.0 ft						
					75						
					80						

WARZYN

LOG OF TEST BORING

Project: Beloit Corporation RI/FS

Location: Rockton, Illinois

Boring No. DB03
Surface Elevation 745.7
Job No. 1526892
Sheet 1 of 4

ONE SCIENCE COURT, P.O. BOX 5385, MADISON, WI 53705 (608) 231-4747

SAMPLE						VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES					
No.	TYPE	Rec (in.)	Moist	N	Depth		PID	Total VOCs	Qu	LL	PL	P200
						Dark Brown-Black Sandy SILT (TOPSOIL)						
					5	SAND and GRAVEL, Trace Silt (SP/GP)						
						Brown Fine SAND, Trace Silt (SP)						
					10							
						Silt Content Increases to a Depth of 21 feet						
					15							
					20							
						Medium to Coarse GRAVEL, Trace Sand, Trace Clay (GP)						
					25							
					30							
						Brown Fine SAND, Trace Silt (SP)						
					35							
					40							

WATER LEVEL OBSERVATIONS

While Drilling ▽ ____ ft. Upon Completion of Drilling ____ ft.
Time After Drilling ____ ____ ____ ____
Depth to Water ____ ____ ____ ____ ▼
Depth to Cave in ____ ____ ____ ____

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

GENERAL NOTES

Start 8/10/92 End 8/13/92
Driller Layne NW Chief Stewart Rig TH-60
Logger RJR Editor RJR/JEM
Drill Method Dual Tube

LOG OF TEST BORING

WARZYN

Project: Beloit Corporation RI/FS

Location: Rockton, Illinois

Boring No. DB03
Surface Elevation 745.7
Job No. 1526892
Sheet 2 of 4

ONE SCIENCE COURT P.O. BOX 5385, MADISON, WI 53705 (608) 231-4747

SAMPLE					VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES					
No.	TYPE	Rec (in.)	Moist	N	Depth		PID	Total VOCs	Qu	LL	PL	P200
					45							
					50	Brown Lean CLAY, Trace Sand and Gravel (CL)						
1	■		M		55					37	16	93.7
					60							
					65	Gray Lean CLAY (CL)						
					70							
					75							
2	■		M							45	18	99.8
					80							
						Gray-Brown Fine to Medium SAND, Trace Silt and Clay (SP)						

LOG OF TEST BORING

WARZYN

Project: Beloit Corporation RI/FS

Location: Rockton, Illinois

Boring No. DB03
Surface Elevation 745.7
Job No. 1526892
Sheet 3 of 4

ONE SCIENCE COURT P.O. BOX 5385, MADISON, WI 53705 (608) 231-4747

SAMPLE					VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES					
No.	TYPE	Rec (in.)	Moist	N	Depth		PID	Total VOCs	Qu	LL	PL	P200
					90							
					95							
3			W		100							2.2
					105							
					110	Brown Fine to Medium SAND, Trace to Little Gravel, Trace Silt, Trace Clay (SP-SM)		5.1				
					115	Brown SILT and Little to Some Fine Sand (ML)						
					120	Gray Lean CLAY, Trace Sand, Trace Gravel (CL)						
					125	Fine SAND and Medium to Coarse GRAVEL, Trace Silt (SP/GP)						

WARZYN

LOG OF TEST BORING

Project: Beloit Corporation RI/FS

Location: Rockton, Illinois

Boring No. DB03
Surface Elevation 745.7
Job No. 1526892
Sheet 4 of 4

ONE SCIENCE COURT P.O. BOX 5385, MADISON, WI 53705 (608) 231-4747

SAMPLE					VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES					
No.	TYPE	Rec (in.)	Moist	N	Depth		PID	Total VOCs	Qu	LL	PL	P200
					135							
					140	Gray Lean CLAY, Trace Sand, Trace Gravel (CL)		8.3				
					145	Fine to Coarse GRAVEL, Trace to Little Sand (GP)						
4			W									
					150							
					155							
					160	End of Boring at 159.0 ft Borehole Abandoned						
					165							
					170							

WARZYN

LOG OF TEST BORING

Project: Beloit Corporation RI/FS

Location: Rockton, Illinois

Boring No. DB02
Surface Elevation 753.5
Job No. 1526892
Sheet 1 of 3

ONE SCIENCE COURT, P.O. BOX 5385, MADISON, WI 53705 (608) 231-4747

SAMPLE No.	Type	Rec (in.)	Moist	N	Depth	VISUAL CLASSIFICATION and Remarks	PID	VOCs Total	Qu	LL	PL	P200
						Black Sandy SILT (TOPSOIL)						
						Brown Fine to Coarse SAND, Some Fine to Medium Gravel, Trace to Little Silt (SP)						
					5	Brown Fine to Coarse SAND and Coarse GRAVEL, Trace to Little Silt (SP/GP)						
					10	Fine to Coarse GRAVEL, Some Sand (GP)						
					15	Coarse GRAVEL, Little Fine to Medium Sand (GM)						
					20							
						Brown Silty Fine SAND, Trace Gravel (SM)						
					25							
						Brown Lean CLAY, Little Sand (CL)						
					30							
					35							
1	■		M							39	17	93.4
					40							

WATER LEVEL OBSERVATIONS

While Drilling ▽ ____ ft. Upon Completion of Drilling ____ ft.
Time After Drilling ____ ____ ____ ____
Depth to Water ____ ____ ____ ____ ▼
Depth to Cave in ____ ____ ____ ____

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

GENERAL NOTES

Start 8/3/92 End 8/4/92
Driller Layne NW Chief Stewart Rig TH-60
Logger RJR Editor RJR/JEM
Drill Method Dual Tube

LOG OF TEST BORING

WARZYN

Project: Beloit Corporation RI/FS

Location: Rockton, Illinois

Boring No. DB02
Surface Elevation 753.5
Job No. 1526892
Sheet 2 of 3

ONE SCIENCE COURT P.O. BOX 5385, MADISON, WI 53705 (608) 231-4747

SAMPLE					VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES					
No.	TYPE	Rec (in.)	Moist	N	Depth		PID	Total VOCs	Qu	LL	PL	P200
					45 Brown Medium to Coarse SAND and GRAVEL, Trace Silt and Clay (SP/GP)							
					50							
2			W		55							1.9
					60							
3			M		65							
					70 Brown Fine SAND, Trace Silt (SP)							
					75							
					80							
					Gray Lean CLAY, Trace Sand (CL)							

WARZYN

LOG OF TEST BORING

Project: Beloit Corporation RI/FS

Location: Rockton, Illinois

Boring No. DB02
Surface Elevation 753.5
Job No. 1526892
Sheet 3 of 3

ONE SCIENCE COURT P.O. BOX 5385, MADISON, WI 53705 (608) 231-4747

SAMPLE					VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES					
No.	TYPE	Rec (in.)	Moist	N	Depth		PID	Total VOCs	Qu	LL	PL	P200
4			M							30	16	99.0
					90							
					95							
						Gray-Brown Fine SAND, Trace Silt (SP)						
					100	End of Boring at 100.0 ft						
					105							
					110							
					115							
					120							
					125							

LOG OF TEST BORING

WARZYN

Project: Beloit Corporation RI/FS

Location: Rockton, Illinois

Boring No. DB01
Surface Elevation 744.4
Job No. 1526892
Sheet 1 of 3

ONE SCIENCE COURT, P.O. BOX 5385, MADISON, WI 53705 (608) 231-4747

SAMPLE					VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES					
No.	Type	Rec (in.)	Moist	N	Depth		PID	Total VOCs	Qu	LL	PL	P200
						Medium Stiff, Black Sandy SILT, Trace Gravel (TOPSOIL)						
						Dense, Brown SAND and GRAVEL, Trace to Little Silt (SP-SM/GP-GM)						
					5							
					10							
					15							
					20	Wet						
					25							
						Stiff, Brown Clayey SILT, Trace to Little Fine Sand, Trace to Little Gravel (ML)						
					30	Dense, Brown Fine SAND, Trace to Little Gravel (SP)						
					35							
						Stiff, Gray Silty CLAY, Trace to Little Fine Sand, Trace Gravel (CL-ML)						
					40			64.7				

WATER LEVEL OBSERVATIONS

While Drilling ▽ ft. Upon Completion of Drilling ft.
Time After Drilling
Depth to Water ▼
Depth to Cave in

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

GENERAL NOTES

Start 7/22/92 End 7/30/92
Driller Layne NW Chief Stewart Rig TH-60
Logger RJR Editor RJR/JEM
Drill Method Dual Tube

LOG OF TEST BORING

WARZYN

Project: Beloit Corporation RI/FS

Location: Rockton, Illinois

Boring No. DB01
Surface Elevation 744.4
Job No. 1526892
Sheet 2 of 3

ONE SCIENCE COURT P.O. BOX 5385, MADISON, WI 53705 (608) 231-4747

SAMPLE					VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
No.	TYPE	Rec (in.)	Moist	N	Depth	PID	Total VOCs	Qu	LL	PL	P200
					Gray Silty SAND, Trace Clay (SM)						
					Brown Fine SAND, Some Silt and Clay (SM)						
					45						
1			W				97.3				18.1
					50						
					55		48.3				
					Dense, Medium GRAVEL, Some Sand, Trace Silt (GM)						
					Brown, Fine to Medium SAND, Trace to Little Silt (SP-SM)						
					60		34.2				
					Dense Medium GRAVEL, Trace to Little Sand (GP)						
					65						
					Brown Fine SAND, Little Silt and Clay (SP-SM)						
					70						
					75						
2			W								6.0
					80		81.5				
					Gray Lean CLAY, Trace Sand, Trace Gravel (CL)						
3			M		Gray Fat CLAY, Trace Sand (CH)				54	16	97.4

LOG OF TEST BORING

WARZYN

Project: Beloit Corporation RI/FS

Location: Rockton, Illinois

Boring No. DB01
Surface Elevation 744.4
Job No. 1526892
Sheet 3 of 3

ONE SCIENCE COURT P.O. BOX 5385, MADISON, WI 53705 (608) 231-4747

SAMPLE						VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES					
No.	TYPE	Rec (in.)	Moist	N	Depth		PID	Total VOCs	Qu	LL	PL	P200
						Gray Lean CLAY, Trace Sand, Trace Gravel (CL)						
					90	Gray-Brown Fine SAND and Fine to Medium GRAVEL, Trace Silt (SP/GP)						
					95							
					100	End of Boring at 98.0 ft						
					105							
					110							
					115							
					120							
					125							

WARZYN

LOG OF TEST BORING

Project: Beloit Corporation RI/FS

Location: Rockton, Illinois

Boring No. GB01
Surface Elevation 766.9
Job No. 1526892
Sheet 1 of 3

ONE SCIENCE COURT, P.O. BOX 5385, MADISON, WI 53705 (608) 231-4747

SAMPLE No.	Type	Rec (in.)	Moist	N	Depth	VISUAL CLASSIFICATION and Remarks	PID	Qu	LL	PL	P200
1			M			Medium Stiff, Black SILT, Trace Sand, Trace Gravel, Trace Organics (TOPSOIL)					
						Stiff, Brown-Gray Clayey SILT, Trace Sand, Little Gravel and Cobble (ML)					
2		8	M	16	5						
						Very Dense, Brown Fine to Coarse SAND and GRAVEL, Little to Some cobble, Trace Silt and Clay (SP/GP)					
3		20	M	> 100	10						
4		18	M	16	15						4.8
5		24	M	62	20						
6		24	M	> 100	25	Very Dense, Fine to Coarse GRAVEL, Trace to Little Sand (GP-GM)					
						Very Dense, Brown SAND and Fine to Medium GRAVEL, Trace Silt (SP/GP)					
7		24	M	88	30						
						Very Dense, Brown Fine to medium SAND, Trace Silt (SP)					
8		24	M	80		Stiff, Reddish-Brown Silty CLAY, Little Sand, Trace to Little Gravel (CL-ML)					
9		10	M	> 100	35	Very Dense, Fine to Medium GRAVEL, Trace Sand, Trace Silt (GP)					
10		22	M	> 100		Dense, Brown, Silty Fine to Coarse SAND, Little Gravel (SM) Drove Stone					35.0
					40						

WATER LEVEL OBSERVATIONS

While Drilling ▽ ____ ft. Upon Completion of Drilling ____ ft.
Time After Drilling ____ ____ ____ ____
Depth to Water ____ ____ ____ ____ ▼
Depth to Cave in ____ ____ ____ ____

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

GENERAL NOTES

Start 7/15/92 End 7/21/92
Driller Layne NW Chief Stewart Rig Dual
Logger RJR Editor RJR/JEM Tube
Drill Method MR 8.5" Open Ended Tri-Cone

LOG OF TEST BORING

WARZYN

Project: Beloit Corporation RI/FS

Location: Rockton, Illinois

Boring No. GB01
Surface Elevation 766.9
Job No. 1526892
Sheet 2 of 3

ONE SCIENCE COURT P.O. BOX 5385, MADISON, WI 53705 (608) 231-4747

SAMPLE					VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
No.	TYPE	Rec (in.)	Moist	N	Depth		PID	Qu	LL	PL	P200
11		20	M	> 100							
12		24	M	> 100							
13			M	> 100	45	Silt Content Increases with Depth					
14			M	> 100							
					50	50.2' Obstruction, No Sample Boulder to Approximately 51.7'					
15		6	M	> 100		Some Silt, Trace Clay					
16		12	W	> 100	55	Hard, Brown Lean CLAY, Trace to Little Sand (CL)					
17		14	W	> 100		Dense, Brown, Silty Fine to Coarse SAND, Little Gravel (SM)					
18		14	W	75	60	Very Dense, Brown Fine to Coarse SAND, Some Gravel, Little Silt and Clay (SP-SM)					
19		15	W	> 100							10.2
20		8	W	> 100	65	Drove Stone					
21		11	W	> 100							
22		11	W	> 100	70						
23			W	> 100		Red-Orange to Brown, Fine to Medium SAND, Little Silt and Clay (SP-SM) Discoloration - Oxide with Horizontal Banding, Color Less Evident, Banding Gone with Depth					7.0
24		16	W	> 100	75						
25		11	W	> 100							
26		21	W	85	80	Very Dense, Gray Fine to Medium SAND, Little Silt and Clay (SP-SM)					10.4
						Very Stiff, Brown SILT, Trace Clay, Trace Fine Sand (ML)					

WARZYN

LOG OF TEST BORING

Project: Beloit Corporation RI/FS

Location: Rockton, Illinois

Boring No. GB01
Surface Elevation 766.9
Job No. 1526892
Sheet 3 of 3

ONE SCIENCE COURT P.O. BOX 5385, MADISON, WI 53705 (608) 231-4747

SAMPLE					VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
No.	TYPE	Rec (in.)	Moist	N	Depth		PID	Qu	LL	PL	P200
27		11	M	> 100		Hard, Gray Lean CLAY, Trace Sand (CL)					
28		24	M	> 100	90				40	17	98.0
29			M	85	95						
					100	End of Boring at 100.0 ft					
					105						
					110						
					115						
					120						
					125						

D3

STANDPIPES AND MONITORING WELLS

WARZYN

LOG OF TEST BORING

Project: Beloit Corporation

Location: Rockton, Illinois

Boring No. SP-1

Surface Elevation 753.7

Job No. C12749.02

Sheet 1 of 1

WARZYN ENGINEERING INC. • ONE SCIENCE COURT • UNIVERSITY RESEARCH PARK • P.O. BOX 5,815 • MADISON, WISCONSIN 53705

SAMPLE						VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
No.	Type	Recovery ↓	Moisture ↓	N	Depth		q_u	HNu (ppm)	LL	PL	D
						Sandy Black TOPSOIL (Fill)					
						*					
					5	Dense Fine to Coarse Brown SAND and Gravel, Some Cobbles		0			
					10			0			
					15			0			
					20	Much Medium to Coarse GRAVEL *Medium Dense Silty Fine to Coarse Brown SAND & GRAVEL (Fill)		0			
					25			0			
					30	Dense to Very Dense Yellow Brown Fine SAND, Little Fine Gravel, Little to Some Silt		0			
					35	End of Boring 34.5' Install Well at 34.5'		0			
					40						

WATER LEVEL OBSERVATIONS

While Drilling

Upon Completion of Drilling

Time After Drilling 1/2 hr.

Depth to Water 30.2'

Depth to Cave In

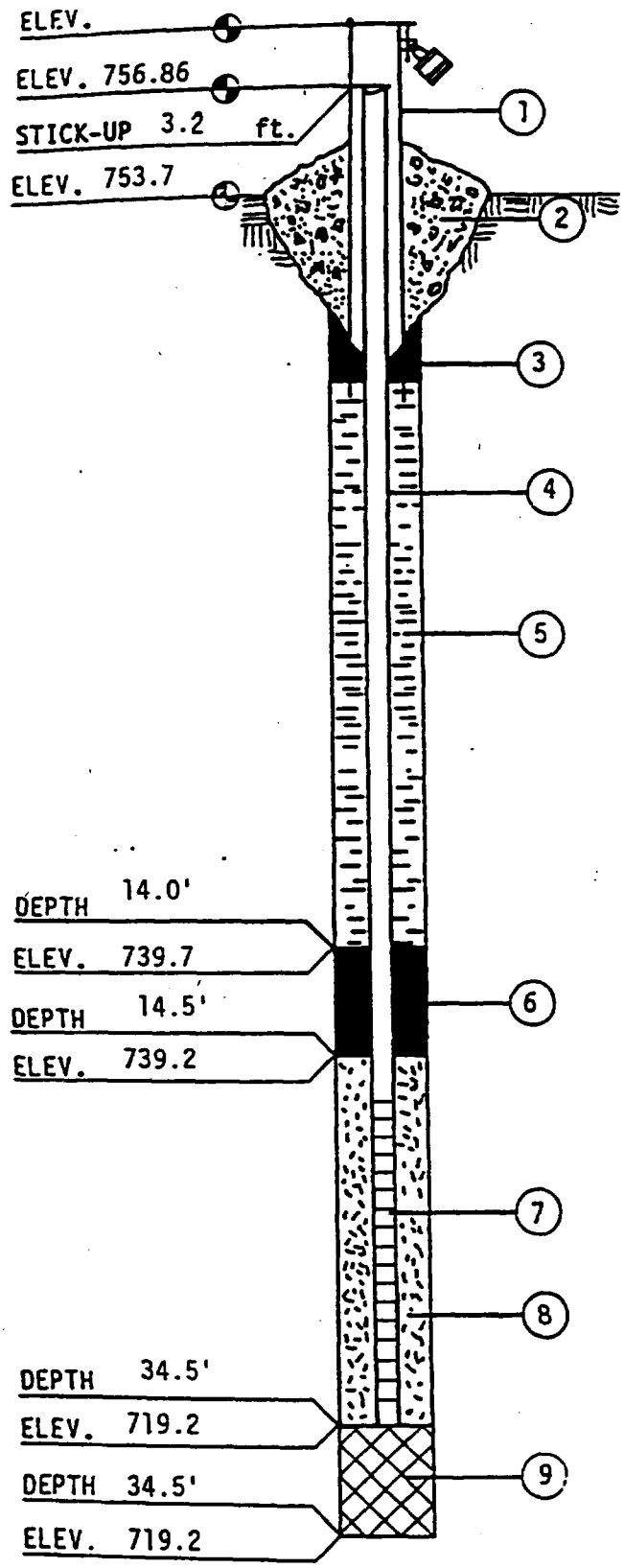
GENERAL NOTES

Start 5/26/87 Complete 5/26/87

Crew Chief MG Rig 9910

Drilling Method 4-1/4" HSA 0-34.5'

ED -0-34.5'; AS 0-34'



WARZYN ENGINEERING INC

MONITORING WELL CONSTRUCTION INFORMATION

JOB NO. 12749.02

BORING/WELL NO. SP-1

DATE 5/26/87

CHIEF/UNIT MG/9910

1. PROTECTIVE CASING YES (NO)

   LOCKING YES (NO)

2. CONCRETE SEAL YES (NO)

3. TYPE OF SURFACE SEAL (IF INSTALLED)
   None

4. SOLID PIPE TYPE SCH 40 PVC

   SOLID PIPE LENGTH 27.7 ft.

   JOINT TYPE SLIP/GLUED (THREADED)

5. TYPE OF BACKFILL Natural Sand & Gravel

   HOW INSTALLED - ~~TREMIE~~ (FROM SURFACE)

6. TYPE OF LOWER SEAL (IF INSTALLED)
   Granular Bentonite

7. SCREEN TYPE SCH 40 PVC

   SCREEN LENGTH 10.0'

   SLOT-SIZE 0.010" LENGTH 9.6 ft.

   SCREEN DIAMETER 2.0 in.

8. TYPE OF BACKFILL AROUND SCREEN
   Natural Sand & Gravel

9. TYPE OF BACKFILL None

10. DRILLING METHOD 4 1/4" HSA

11. ADDITIVES USED (IF ANY)
    None

WATER LEVEL 30.2' DATE 5/26/87

*ALL DEPTHS MEASURED FROM GROUND SURFACE.

WARZYN

LOG OF TEST BORING

Project: Beloit Corporation
Rockton, Illinois

Location

Boring No. SP-2
Surface Elevation 752.2
Job No. 12749.02
Sheet 1 of 1

WARZYN ENGINEERING INC. • ONE SCIENCE COURT • UNIVERSITY RESEARCH PARK • P.O. BOX 5885 • MADISON, WISCONSIN 53705

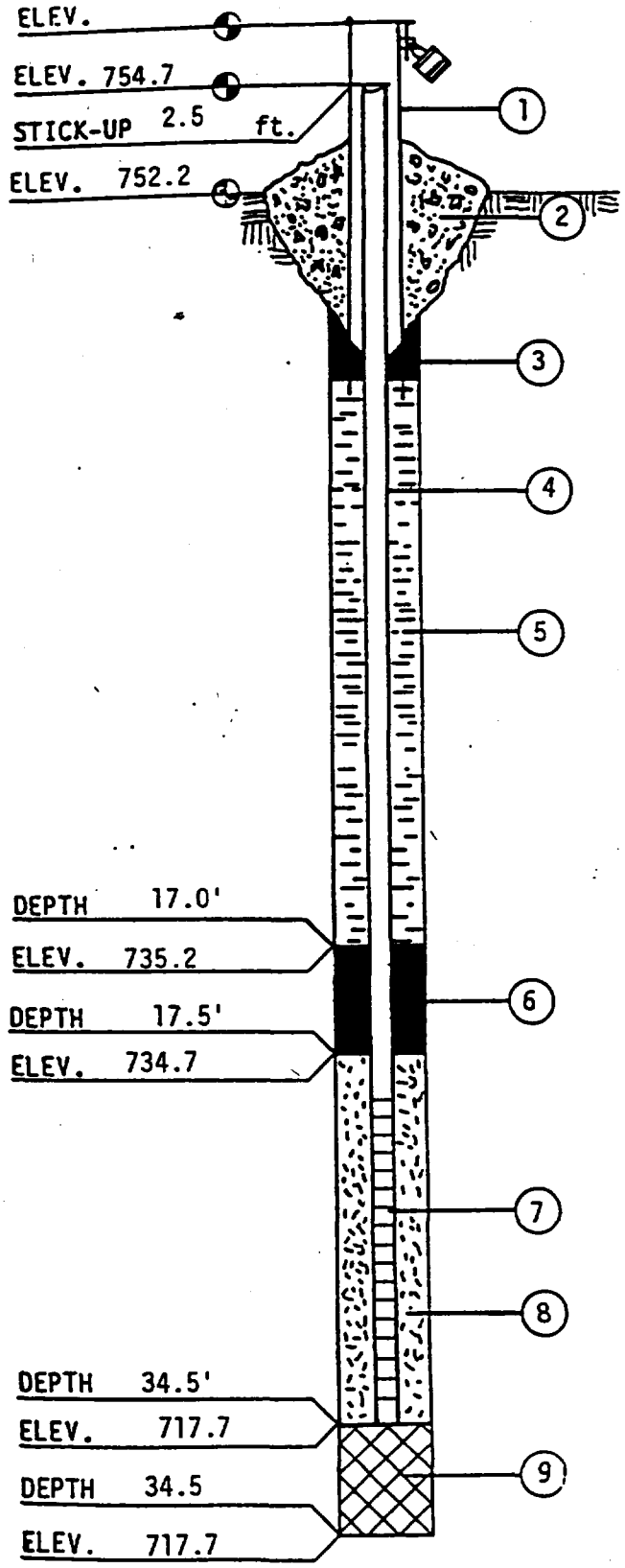
SAMPLE						VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
Recovery			Moisture								
No.	Type	↓	↓	N	Depth		qu	W	LL	PL	D
						Yellowish Brown Coarse GRAVEL, Some to Little Fine Gravel to Fine Sand (FILL)					
						Dark Brown Silty Fine SAND					
					5	Yellowish Brown Dense Coarse GRAVEL, Some to Little Fine Gravel to Fine Sand					
					10						
					15						
						Yellowish Brown Dense Silty Fine to Coarse SAND					
					20						
					25	Becomes Siltier with Depth					
					30						
					35	End of Boring at 34.5' Install well at 34.5'					
					40						

WATER LEVEL OBSERVATIONS

While Drilling
Upon Completion of Drilling
Time After Drilling 1/2 hr
Depth to Water 26.0'
Depth to Cave In

GENERAL NOTES

Start 5/21/87 Complete 5/21/87
Crew Chief MG Rig 9910
Drilling Method 4-1/4" HSA
0-34.5'
ED/AS 0-34.5'



WARZYN ENGINEERING INC

MONITORING WELL CONSTRUCTION INFORMATION

JOB NO. 12749.02

BORING/WELL NO. SP-2

DATE 5/21/87

CHIEF/UNIT MG/9910

1. PROTECTIVE CASING YES NO

   LOCKING YES NO

2. CONCRETE SEAL YES NO

3. TYPE OF SURFACE SEAL (IF INSTALLED)
   None

4. SOLID PIPE TYPE SCH 40 PVC

   SOLID PIPE LENGTH 27.0 ft.

   JOINT TYPE SLIP/GLUED THREADED

5. TYPE OF BACKFILL Natural Sand & Gravel

   HOW INSTALLED - TREMIE FROM SURFACE

6. TYPE OF LOWER SEAL (IF INSTALLED)
   Granular Bentonite

7. SCREEN TYPE SCH 40

   SCREEN LENGTH 10.0'

   SLOT-SIZE 0.010" LENGTH 9.6 ft.

   SCREEN DIAMETER 2.0 in.

8. TYPE OF BACKFILL AROUND SCREEN
   Natural Sand & Gravel

9. TYPE OF BACKFILL None

10. DRILLING METHOD 4½" HSA

11. ADDITIVES USED (IF ANY)
    None

WATER LEVEL 26.0' DATE 5/21/87

*ALL DEPTHS MEASURED FROM GROUND SURFACE.

WARZYN

LOG OF TEST BORING

Project: Beloit Corporation

Location: Rockton, Illinois

Boring No. SP-3
Surface Elevation 751.2
Job No. 12749.02
Sheet 1 of 1

WARZYN ENGINEERING INC. • ONE SCIENCE COURT • UNIVERSITY RESEARCH PARK • P.O. BOX 5385 • MADISON, WISCONSIN 53705

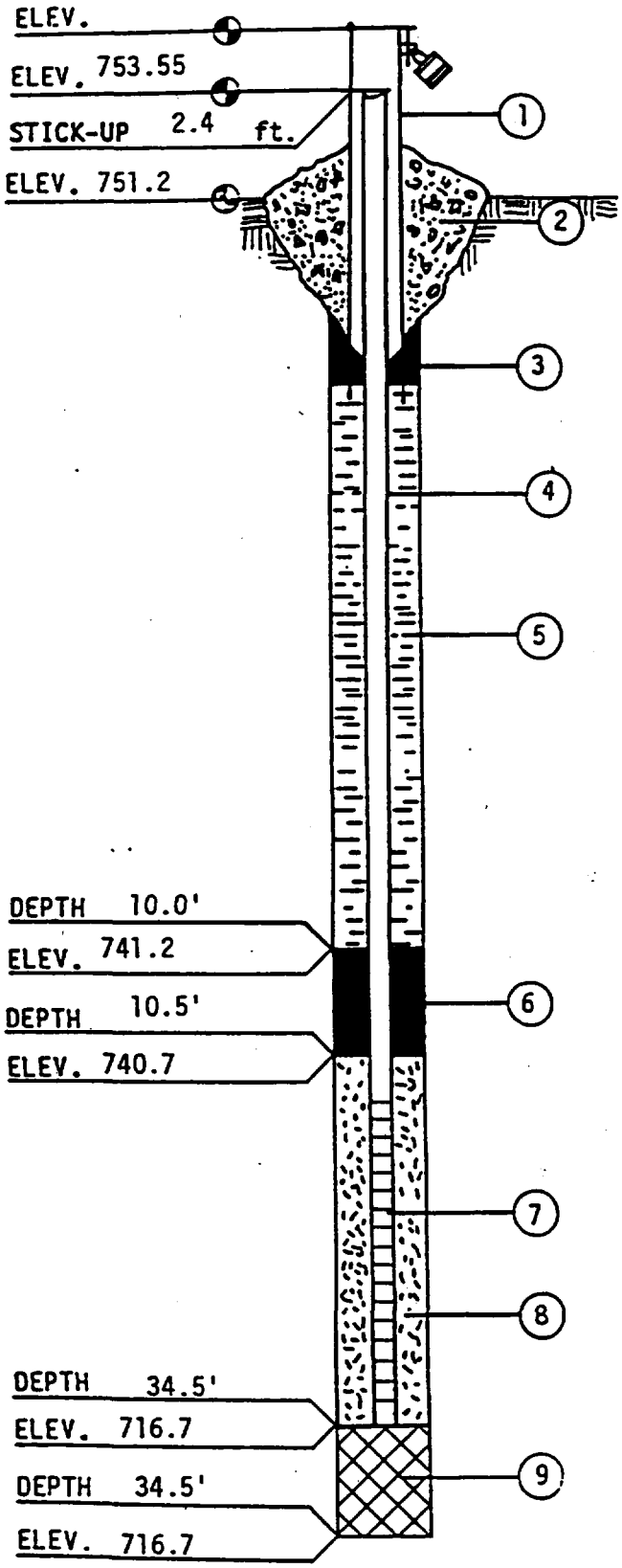
SAMPLE No.	Type	Recovery	Moisture	N	Depth	VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES HNu (ppm)	LL	PL	D
						Dark Brown Sandy TOPSOIL				
						Brown Sandy, Silty CLAY				
					5	Brown Fine to Coarse SAND and GRAVEL	0			
					10		0			
					15		0			
					20	Yellowish Brown Fine to Medium SAND	0			
					25	Siltier with Depth	0			
					30		0			
					35	End of Boring at 34.5' Install well at 34.5'	0			
					40					

WATER LEVEL OBSERVATIONS

While Drilling
Upon Completion of Drilling
Time After Drilling 1/2 hr
Depth to Water 24.0'
Depth to Cave In

GENERAL NOTES

Start 5/20/87 Complete 5/20/87
Crew Chief MG Rig 9910
Drilling Method 4-1/4" HSA, ED, AS 0-34.5'



WARZYN ENGINEERING INC

MONITORING WELL CONSTRUCTION INFORMATION

JOB NO. C 12749.02

BORING/WELL NO. SP-3

DATE 5/21/87

CHIEF/UNIT MG/9910

1. PROTECTIVE CASING YES (NO)
   LOCKING YES (NO)
2. CONCRETE SEAL YES (NO)
3. TYPE OF SURFACE SEAL (IF INSTALLED)
   None
4. SOLID PIPE TYPE SCH 40 PVC
   SOLID PIPE LENGTH 26.9 ft.
   JOINT TYPE SLIP/GLUED (THREADED)
5. TYPE OF BACKFILL Natural Sand & Gravel
   HOW INSTALLED - ~~TREMIE~~ (FROM SURFACE)
6. TYPE OF LOWER SEAL (IF INSTALLED)
   Granular Bentonite
7. SCREEN TYPE SCH 40
   SCREEN LENGTH 10.0'
   SLOT-SIZE 0.010" LENGTH 9.6 ft.
   SCREEN DIAMETER 2.0 in.
8. TYPE OF BACKFILL AROUND SCREEN
   Natural Sand & Gravel
9. TYPE OF BACKFILL None
10. DRILLING METHOD 4¼" HSA
11. ADDITIVES USED (IF ANY)
    None

WATER LEVEL 24.0' DATE 5/21/87

*ALL DEPTHS MEASURED FROM GROUND SURFACE.

WARZYN

LOG OF TEST BORING

Project: Beloit Corporation

Location: Rockton, Illinois

Boring No. SP-4
Surface Elevation 749.6
Job No. 12749.02
Sheet 1 of 1

WARZYN ENGINEERING INC. • ONE SCIENCE COURT • UNIVERSITY RESEARCH PARK • P.O. BOX 5885 • MADISON, WISCONSIN 53705

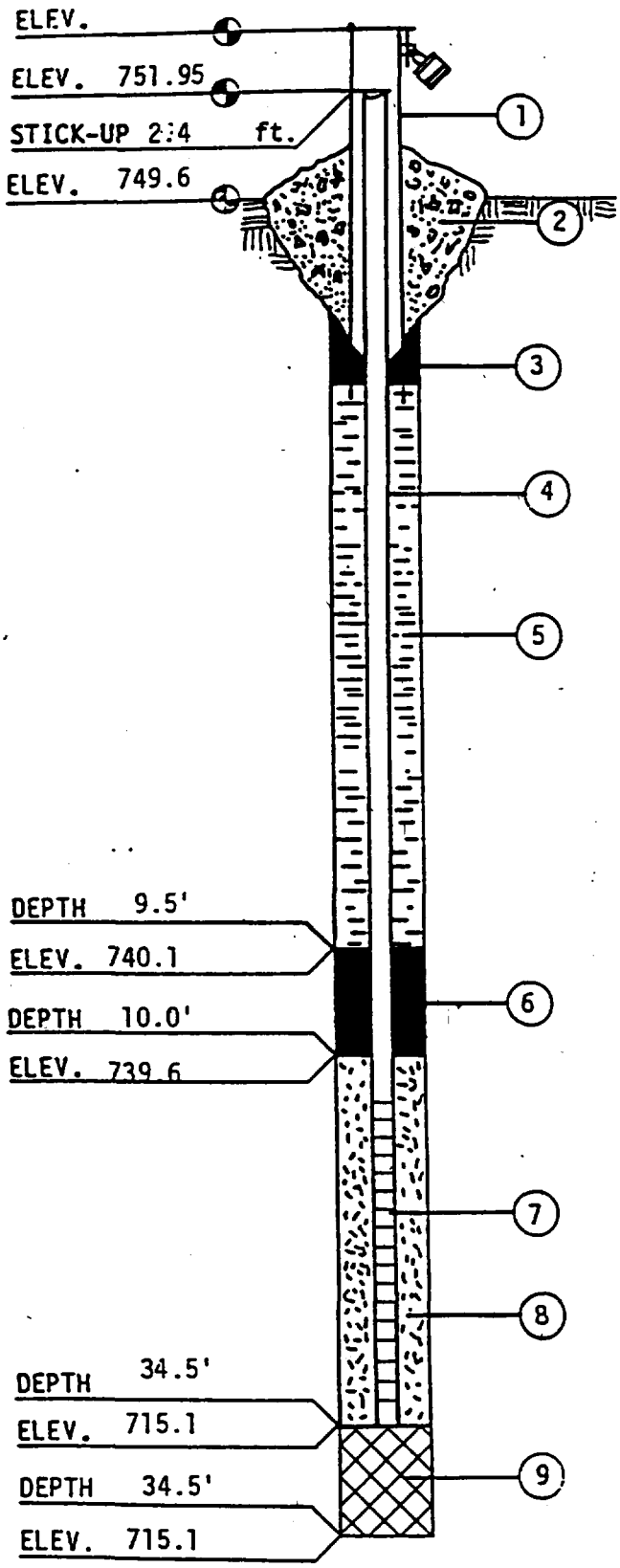
SAMPLE No.	Type	Recovery	Moisture	N	Depth	VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES qu	HNu (ppm)	LL	PL	D
						Dark Brown Sandy TOPSOIL					
						Dense Brown Fine to Coarse SAND and GRAVEL, Little Silt		0			
					5						
								0			
					10						
								0			
					15						
								0			
					20						
						Yellowish Brown Fine to Medium SAND, Trace Silt and Fine Gravel		0			
					25						
								0			
					30						
						End of Boring at 34.5' Install well at 34.5'		0			
					35	4' False Start - moved North 4'					
					40						

WATER LEVEL OBSERVATIONS

While Drilling
Upon Completion of Drilling
Time After Drilling 1/2 hr
Depth to Water 23.8'
Depth to Cave In

GENERAL NOTES

Start 5/20/87 Complete 5/20/87
Crew Chief MG. Rig 9910
Drilling Method 4-1/4" HSA
ED, AS 0-34.5'



WARZYN ENGINEERING INC

MONITORING WELL CONSTRUCTION INFORMATION

JOB NO. 12749.02

BORING/WELL NO. SP-4

DATE 5/20/87

CHIEF/UNIT MG/9910

1. PROTECTIVE CASING YES NO

   LOCKING YES NO

2. CONCRETE SEAL YES NO

3. TYPE OF SURFACE SEAL (IF INSTALLED)

   None

4. SOLID PIPE TYPE SCH 40 PVC

   SOLID PIPE LENGTH 26.9 ft.

   JOINT TYPE SLIP/GLUED THREADED

5. TYPE OF BACKFILL Natural Sand & Gravel

   HOW INSTALLED - TREMIE FROM SURFACE

6. TYPE OF LOWER SEAL (IF INSTALLED)

   Granular Bentonite

7. SCREEN TYPE SCH 40

   SCREEN LENGTH 10.0'

   SLOT-SIZE 0.010" LENGTH 9.6 ft.

   SCREEN DIAMETER 2.0 in.

8. TYPE OF BACKFILL AROUND SCREEN

   Natural Sand & Gravel

9. TYPE OF BACKFILL None

10. DRILLING METHOD 4½" HSA

11. ADDITIVES USED (IF ANY)

    None

WATER LEVEL 23.8' DATE 5/20/87

*ALL DEPTHS MEASURED FROM GROUND SURFACE.

WARZYN

LOG OF TEST BORING

Project: Beloit Corporation

Location: Rockton, Illinois

Boring No. SP-5

Surface Elevation 752.5

Job No. 12749.02

Sheet 1 of 1

WARZYN ENGINEERING INC. • ONE SCIENCE COURT • UNIVERSITY RESEARCH PARK • P.O. BOX 5885 • MADISON, WISCONSIN 53705

SAMPLE						VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
No.	Type	Recovery	Moisture	N	Depth		qu	W	LL	PL	D
					5	Dense Brown Fine to Coarse Silty SAND and GRAVEL with Cobbles					
					10						
					15	* Sandy Black TOPSOIL					
					20						
					25						
					30	Yellowish Brown Fine to Medium SAND, Trace Fine to Coarse Gravel					
					35	End Boring at 33.5' Install well at 33.5'					
					40						

WATER LEVEL OBSERVATIONS

While Drilling

Upon Completion of Drilling

Time After Drilling 1/4 hr

Depth to Water 27.4'

Depth to Cave In

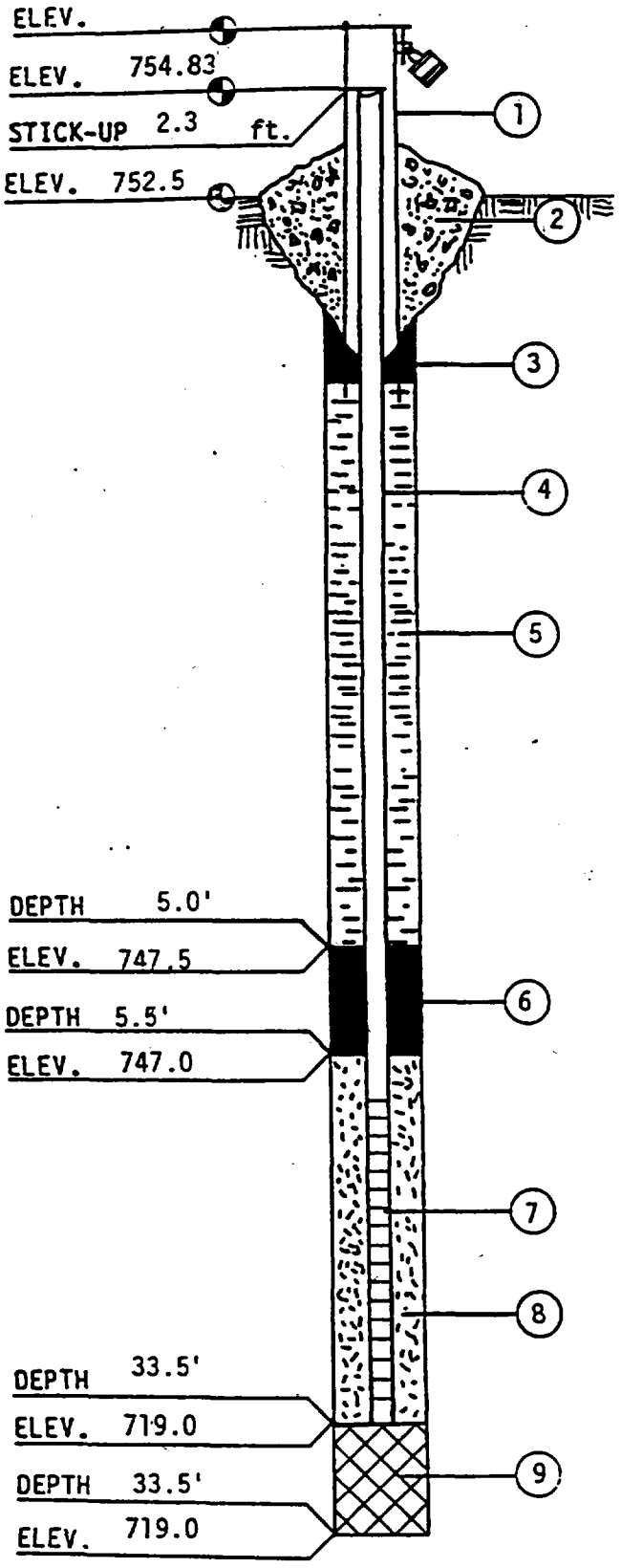
GENERAL NOTES

Start 5/20/87 Complete 5/20/87

Crew Chief MG Rig 9910

Drilling Method 4-1/4" HSA

ED, AS 0-33.5'



WARZYN ENGINEERING INC

MONITORING WELL CONSTRUCTION INFORMATION

JOB NO. 12749.02

BORING/WELL NO. SP-5

DATE 5/20/87

CHIEF/UNIT MG/9910

1. PROTECTIVE CASING YES (NO)

   LOCKING YES (NO)

2. CONCRETE SEAL YES (NO)

3. TYPE OF SURFACE SEAL (IF INSTALLED)
   None

4. SOLID PIPE TYPE SCH 40 PVC

   SOLID PIPE LENGTH 25.8 ft.

   JOINT TYPE SLIP/GLUED (THREADED)

5. TYPE OF BACKFILL Natural Sand & Gravel

   HOW INSTALLED - TREMIE (FROM SURFACE)

6. TYPE OF LOWER SEAL (IF INSTALLED)
   Granular Bentonite

7. SCREEN TYPE SCH 40

   SCREEN LENGTH 10.0'

   SLOT-SIZE 0.010" LENGTH 9.2 ft.

   SCREEN DIAMETER 2.0 in.

8. TYPE OF BACKFILL AROUND SCREEN
   Natural Sand & Gravel

9. TYPE OF BACKFILL None

10. DRILLING METHOD 4½" HSA

11. ADDITIVES USED (IF ANY)
    None

WATER LEVEL 27.4' DATE 5/20/87

*ALL DEPTHS MEASURED FROM GROUND SURFACE.

WARZYN

LOG OF TEST BORING

Project: Beloit Corporation

Location: Rockton, Illinois

Boring No. SP-6
Surface Elevation 750.1
Job No. 12749.02
Sheet 1 of 1

WARZYN ENGINEERING INC. • ONE SCIENCE COURT • UNIVERSITY RESEARCH PARK • P.O. BOX 5385 • MADISON, WISCONSIN 53705

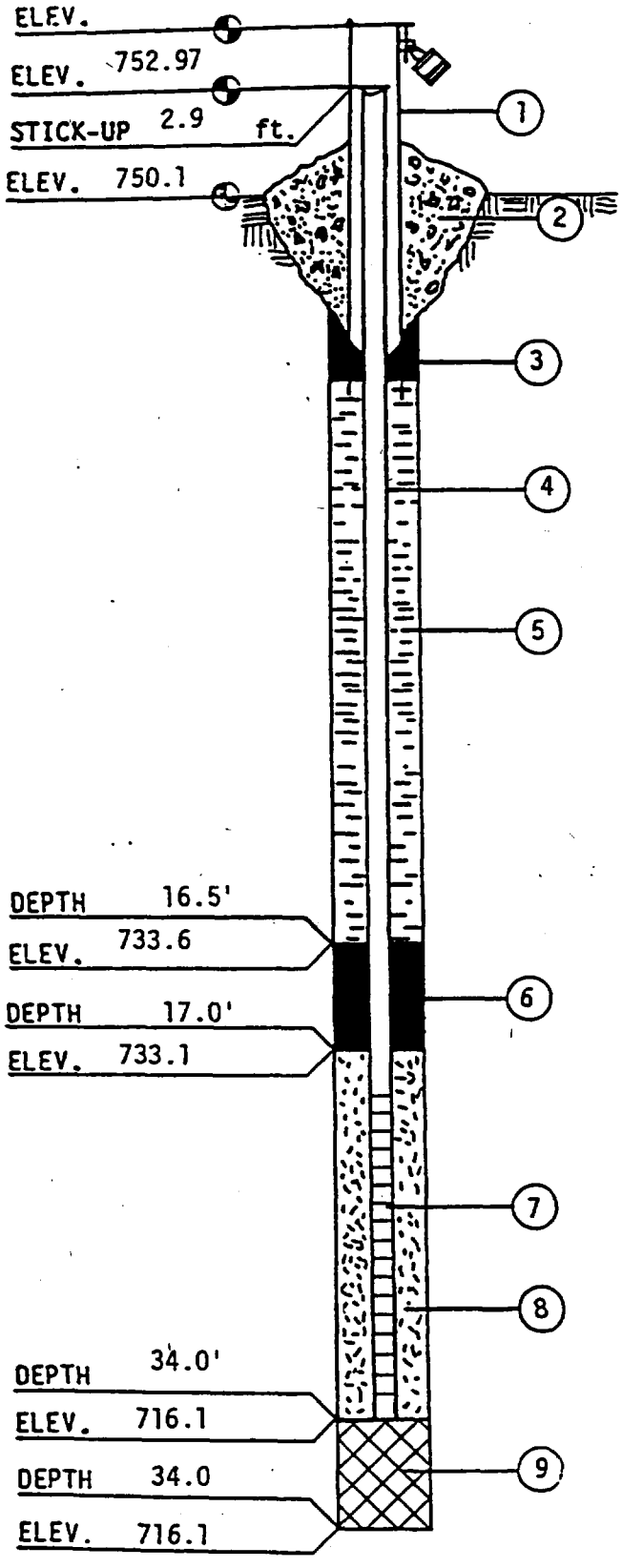
SAMPLE No.	Type	Recovery ↓	Moisture ↓	N	Depth	VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES qu	HNu (ppm)	LL	PL	D
						Dark Brown to Black Fine Sandy Silt to Silty Fine SAND (Topsoil)					
					5	Yellowish Brown Medium Dense to Fine SAND, Little Silt		0			
					10	Yellowish Brown Dense Coarse GRAVEL		0			
					15			0			
					20	Yellowish Brown Dense Fine Silty SAND, Trace Fine Gravel		0			
					25						
					30						
					35	End of Boring at 34.0' Install well at 34.0'					
					40						

WATER LEVEL OBSERVATIONS

While Drilling
Upon Completion of Drilling
Time After Drilling 1/2 hr
Depth to Water 25.5'
Depth to Cave In

GENERAL NOTES

Start 5/21/87 Complete 5/21/87
Crew Chief MG Rig 9910
Drilling Method 4-1/4" HSA
ED, AS 0-34.0'



WARZYN ENGINEERING INC

MONITORING WELL CONSTRUCTION INFORMATION

JOB NO. 12749.02

BORING/WELL NO. SP-6

DATE 5/21/87

CHIEF/UNIT MG/9910

1. PROTECTIVE CASING YES NO
   LOCKING YES NO
2. CONCRETE SEAL YES NO
3. TYPE OF SURFACE SEAL (IF INSTALLED)
   None
4. SOLID PIPE TYPE SCH 40 PVC
   SOLID PIPE LENGTH 26.9 ft.
   JOINT TYPE SLIP/GLUED THREADED
5. TYPE OF BACKFILL Natural Sand & Gravel
   HOW INSTALLED - ~~TREMIE~~ FROM SURFACE
6. TYPE OF LOWER SEAL (IF INSTALLED)
   Granular Bentonite
7. SCREEN TYPE SCH 40
   SCREEN LENGTH 10.0'
   SLOT-SIZE 0.010" LENGTH 9.6 ft.
   SCREEN DIAMETER 2.0 in.
8. TYPE OF BACKFILL AROUND SCREEN
   Natural Sand & Gravel
9. TYPE OF BACKFILL None
10. DRILLING METHOD 4½" HSA
11. ADDITIVES USED (IF ANY)
    None

WATER LEVEL 25.5' DATE 5/21/87

*ALL DEPTHS MEASURED FROM GROUND SURFACE.

WARZYN

LOG OF TEST BORING

Project: Beloit Corporation

Location: Rockton, Illinois

Boring No. SP-7
Surface Elevation 755.7
Job No. C 12749.02
Sheet 1 of 1

WARZYN ENGINEERING INC. • ONE SCIENCE COURT • UNIVERSITY RESEARCH PARK • P.O. BOX 5385 • MADISON, WISCONSIN 53705

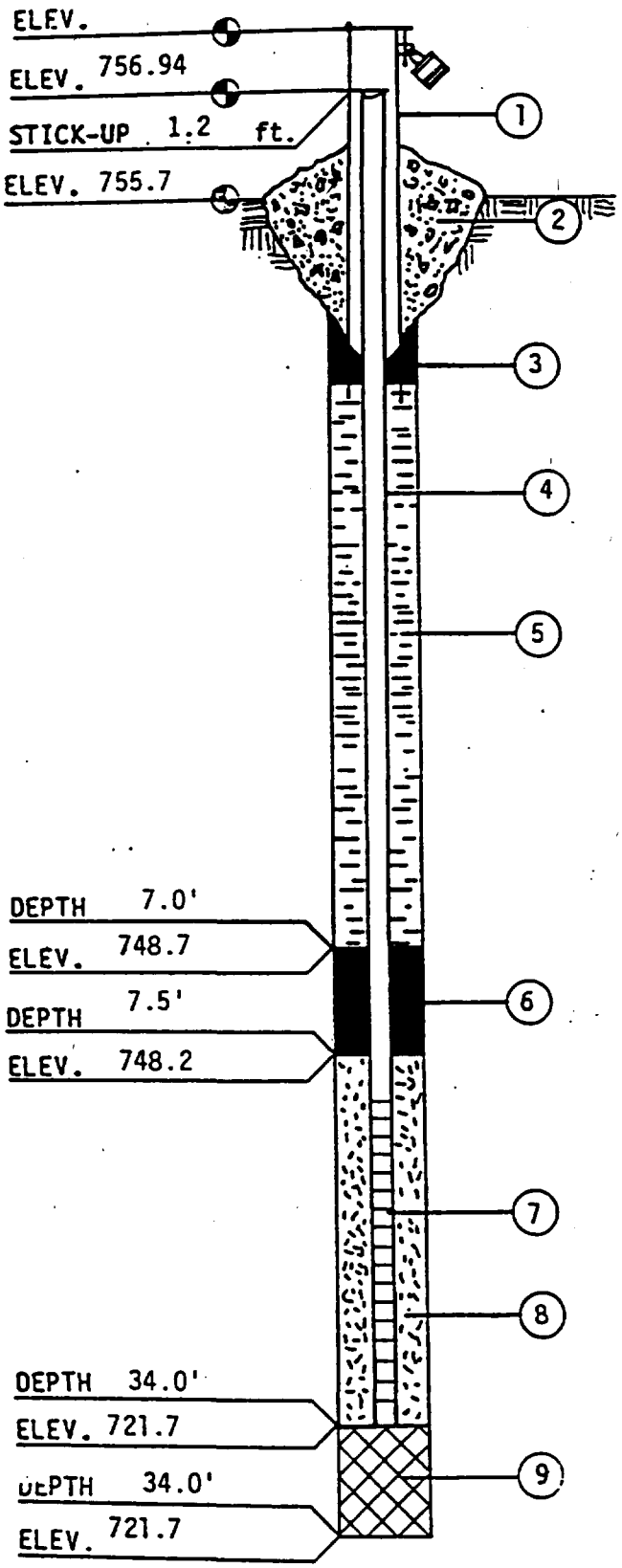
SAMPLE No.	Type	Recovery ↓	Moisture ↓	N	Depth	VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES HNu (ppm)	LL	PL	D
						*				
						Dense Yellow Brown Fine to Coarse Sandy GRAVEL, Trace Silt				
					5		0			
							0			
					10	*Black TOPSOIL, Fine Sandy Clay, Some Silt (CL)				
					15		0			
					20		0			
					25		1.5			
					30		1.0			
						Dense Yellow Brown Silty Fine to Coarse SAND, Trace of Fine Gravel				
					35	End of Boring 34.0'	0.75			
						Install Well at 34' Note: Several 2-3' False Starts Due to Cobbles at Surface				
					40					

WATER LEVEL OBSERVATIONS

While Drilling
Upon Completion of Drilling
Time After Drilling 1/2 hr.
Depth to Water 21.7'
Depth to Cave In

GENERAL NOTES

Start 5/27/87 Complete 5/27/87
Crew Chief MG Rig 9910
Drilling Method 4-1/4" HSA 0-34'
ED 0-34'; AS 0-34'



WARZYN ENGINEERING INC

MONITORING WELL CONSTRUCTION INFORMATION

JOB NO. 12749.02

BORING/WELL NO. SP-7

DATE 5/27/87

CHIEF/UNIT MG/9910

1. PROTECTIVE CASING YES (NO)

   LOCKING YES (NO)

2. CONCRETE SEAL YES (NO)

3. TYPE OF SURFACE SEAL (IF INSTALLED)
   None

4. SOLID PIPE TYPE SCH 40 PVC

   SOLID PIPE LENGTH 25.2 ft.

   JOINT TYPE SLIP/GLUED (THREADED)

5. TYPE OF BACKFILL Natural Sand & Gravel

   HOW INSTALLED - ~~TREMIE~~ (FROM SURFACE)

6. TYPE OF LOWER SEAL (IF INSTALLED)
   Granular Bentonite

7. SCREEN TYPE SCH 40 PVC

   SCREEN LENGTH 10.0

   SLOT-SIZE 0.010" LENGTH 9.6 ft.

   SCREEN DIAMETER 2.0 in.

8. TYPE OF BACKFILL AROUND SCREEN
   Natural Sand & Gravel

9. TYPE OF BACKFILL None

10. DRILLING METHOD 4¼" HSA

11. ADDITIVES USED (IF ANY)
    None

WATER LEVEL 21.7' DATE 5/27/87

*ALL DEPTHS MEASURED FROM GROUND SURFACE.

WARZYN

LOG OF TEST BORING

Project: Beloit Corporation

Location: Rockton, Illinois

Boring No. SP-8
Surface Elevation 748.7
Job No. C-12749.02
Sheet 1 of 1

WARZYN ENGINEERING INC. • ONE SCIENCE COURT • UNIVERSITY RESEARCH PARK • P.O. BOX 5885 • MADISON, WISCONSIN 53705

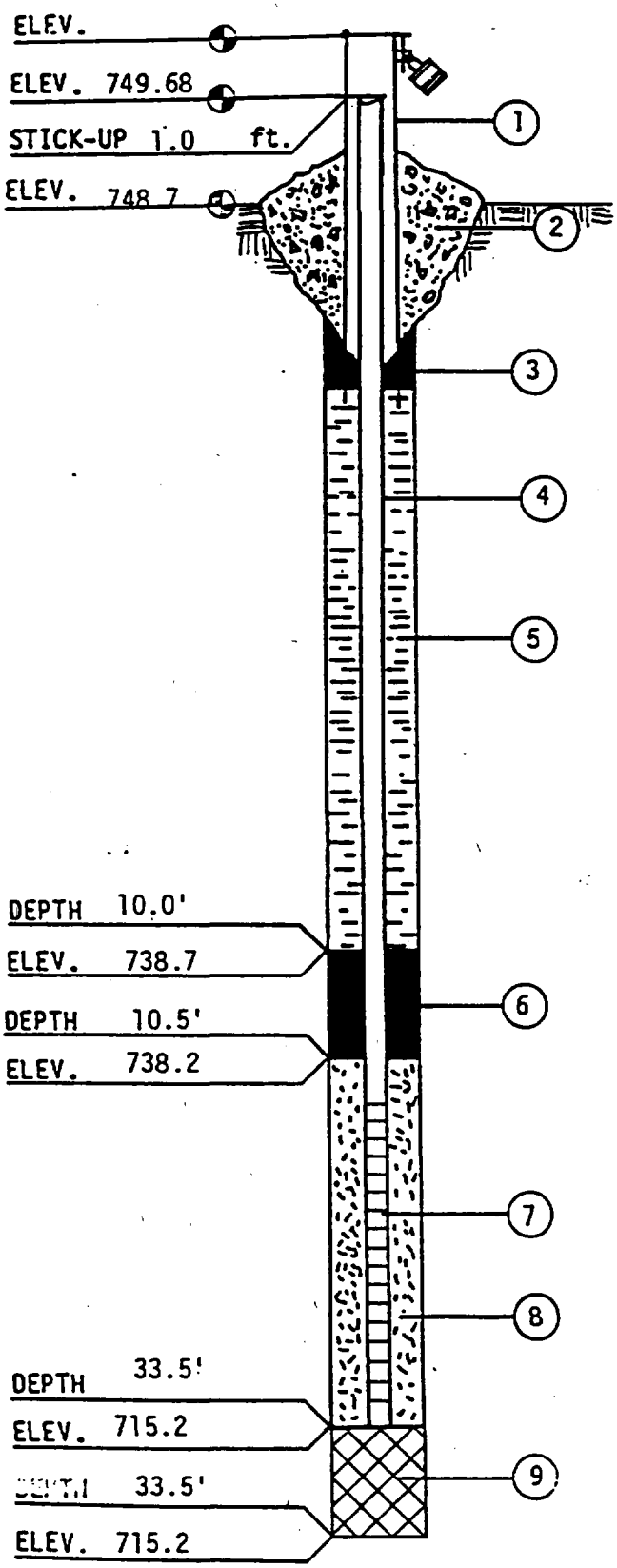
SAMPLE						VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
No.	Type	Recovery	Moisture	N	Depth		qu	HNu (ppm)	LL	PL	D
						Black TOPSOIL					
						Medium Dense Dark Brown Fine SAND, Little Silt.					
								0			
					5						
						Dense Fine to Coarse SAND and GRAVEL					
						Possible Interbedded Sand and Fine to Coarse Gravel Layers		0			
					10						
								0			
					15						
								0			
					20	Dense Silty Fine Brown SAND Some Fine to Coarse Gravel					
								0			
					25						
								0			
					30						
						End of Boring 33.5'					
					35	Install Well at 33.5'					
					40						

WATER LEVEL OBSERVATIONS

While Drilling
Upon Completion of Drilling
Time After Drilling 1/2 hr
Depth to Water 23.5'
Depth to Cave In

GENERAL NOTES

Start 5/28/87 Complete 5/28/87
Crew Chief MG Rig 9910
Drilling Method
4-1/4" HSA 0-33.5'
ED 0-33.5'; AS 0-33.5'



WARZYN ENGINEERING INC

MONITORING WELL CONSTRUCTION INFORMATION

JOB NO. 12749.02

BORING/WELL NO. SP-8

DATE 5/28/87

CHIEF/UNIT MG/9910

1. PROTECTIVE CASING YES (NO)
   LOCKING YES (NO)
2. CONCRETE SEAL YES (NO)
3. TYPE OF SURFACE SEAL (IF INSTALLED) None
4. SOLID PIPE TYPE SCH 40 PVC
   SOLID PIPE LENGTH 24.5 ft.
   JOINT TYPE SLIP/GLUED (THREADED)
5. TYPE OF BACKFILL Natural Sand & Gravel
   HOW INSTALLED - TREMIE (FROM SURFACE)
6. TYPE OF LOWER SEAL (IF INSTALLED) Granular Bentonite
7. SCREEN TYPE SCH 40 PVC
   SCREEN LENGTH 10.0'
   SLOT-SIZE 0.010" LENGTH 9.6 ft.
   SCREEN DIAMETER 2.0 in.
8. TYPE OF BACKFILL AROUND SCREEN Natural Sand & Gravel
9. TYPE OF BACKFILL None
10. DRILLING METHOD 1¼" HSA
11. ADDITIVES USED (IF ANY) None

WATER LEVEL 23.5' DATE 5/28/87

*ALL DEPTHS MEASURED FROM GROUND SURFACE.

WARZYN

LOG OF TEST BORING

Project Beloit Corporation

Location Rockton, Illinois

Boring No. SP-9
Surface Elevation 749.5
Job No. C 12749.02
Sheet 1 of 1

WARZYN ENGINEERING INC. • ONE SCIENCE COURT • UNIVERSITY RESEARCH PARK • P.O. BOX 5385 • MADISON, WISCONSIN 53705

SAMPLE						VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
No.	Type	Recovery ↓	Moisture ↓	N	Depth		qu	HNU (ppm)	LL	PL	D
						Black TOPSOIL					
						Silty Brown Fine SAND					
					5	Dense Fine to Coarse Brown SAND and GRAVEL		0			
					10			0			
					15			0			
					20			0			
					25	Medium to Dense Fine Brown SAND Little to Some Gravel		0			
					30			0			
					35			0			
					40			0			
					45	End of Boring 44.0' Install Well at 44'		0			

(Continued)

WARZYN

LOG OF TEST BORING

Project: Beloit Corporation

Location: Rockton, Illinois

Boring No. SP-9
Surface Elevation 749.5
Job No. C 12749.02
Sheet 2 of 2

WARZYN ENGINEERING INC. • ONE SCIENCE COURT • UNIVERSITY RESEARCH PARK • P.O. BOX 5385 • MADISON, WISCONSIN 53705

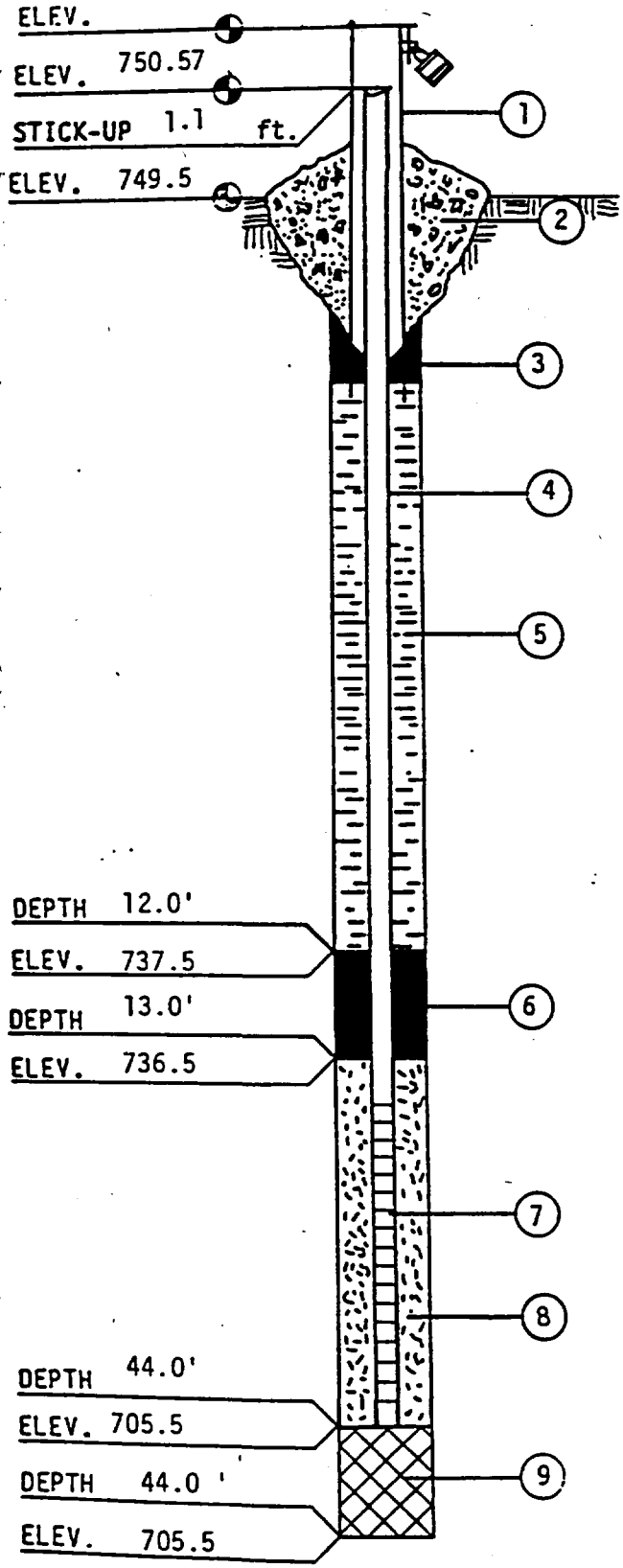
SAMPLE						VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
		Recovery	Moisture								
No.	Type	↓	↓	N	Depth		q_u	W	LL	PL	D
					50						
					55						
					60						
					65						
					70						
					75						
					80						
					85						

WATER LEVEL OBSERVATIONS

While Drilling
Upon Completion of Drilling
Time After Drilling 1/2 hr.
Depth to Water 26.5
Depth to Cave In

GENERAL NOTES

Start 5/28/87 Complete 5/28/8
Crew Chief MG Rig 9910
Drilling Method 4-1/4" HSA 0-44'
ED 0-44'; AS 0-44'



WARZYN ENGINEERING INC

MONITORING WELL CONSTRUCTION INFORMATION

JOB NO. 12749.02

BORING/WELL NO. SP-9

DATE 5/28/87

CHIEF/UNIT MG/9910

1. PROTECTIVE CASING YES NO

   LOCKING YES NO

2. CONCRETE SEAL YES NO

3. TYPE OF SURFACE SEAL (IF INSTALLED)
   None

4. SOLID PIPE TYPE SCH 40 PVC

   SOLID PIPE LENGTH 35.1 ft.

   JOINT TYPE SLIP/GLUED THREADED

5. TYPE OF BACKFILL Natural Sand & Gravel

   HOW INSTALLED - TREMIE FROM SURFACE

6. TYPE OF LOWER SEAL (IF INSTALLED)
   Granular Bentonite

7. SCREEN TYPE SCH 40 PVC

   SCREEN LENGTH 10.0'

   SLOT-SIZE 0.010" LENGTH 9.6 ft.

   SCREEN DIAMETER 2.0 in.

8. TYPE OF BACKFILL AROUND SCREEN
   Natural Sand & Gravel

9. TYPE OF BACKFILL None

10. DRILLING METHOD 4¼" HSA

11. ADDITIVES USED (IF ANY)
    None

WATER LEVEL 26.5' DATE 5/28/87

*ALL DEPTHS MEASURED FROM GROUND SURFACE.

WARZYN

LOG OF TEST BORING

Project: Beloit Corporation

Location: Rockton, Illinois

Boring No.: SP-10

Surface Elevation: 758.0

Job No.: C 12749.02

Sheet 1 of 1

WARZYN ENGINEERING INC. • ONE SCIENCE COURT • UNIVERSITY RESEARCH PARK • P.O. BOX 5385 • MADISON, WISCONSIN 53705

SAMPLE No.	Type	Recovery	Moisture	N	Depth	VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES qu	HNU (ppm)	LL	PL	D
						Silty Fine to Medium Brown SAND					
					5	Dense Fine to Coarse Brown SAND and GRAVEL		0			
					10			0			
					15			0			
					20			0			
					25	Dense Silty Fine Brown SAND Little to Some Gravel		0			
					30			0			
					35			0			
					40	End of Boring 39' Install Well at 39'		0			

WATER LEVEL OBSERVATIONS

While Drilling

Upon Completion of Drilling

Time After Drilling

Depth to Water

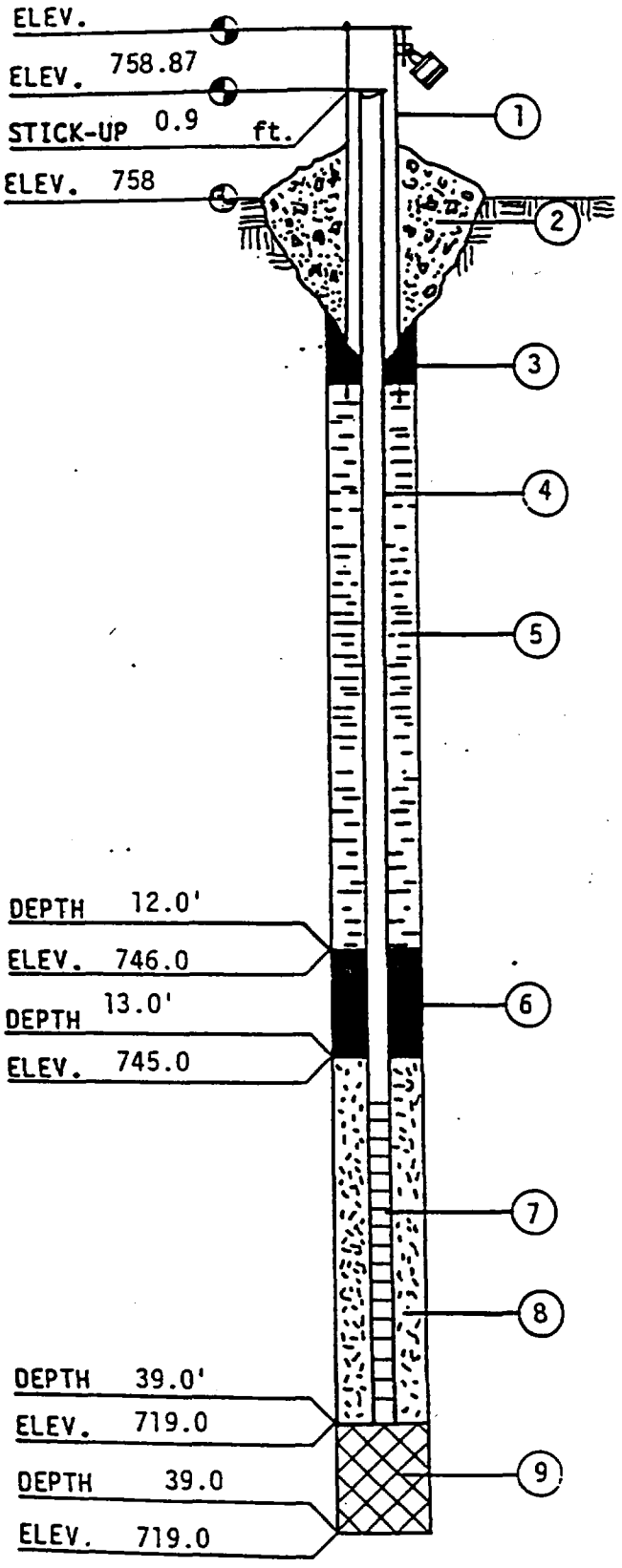
Depth to Cave In

GENERAL NOTES

Start 5/28/87 Complete 5/28/87

Crew Chief MG Rig 9910

Drilling Method 4-1/4" HSA 0-39' ED 0-39'



WARZYN ENGINEERING INC

MONITORING WELL CONSTRUCTION INFORMATION

JOB NO. 12749.02

BORING/WELL NO. SP-10

DATE 5/29/87

CHIEF/UNIT MG/9910

1. PROTECTIVE CASING YES NO

   LOCKING YES NO

2. CONCRETE SEAL YES NO

3. TYPE OF SURFACE SEAL (IF INSTALLED)

   None

4. SOLID PIPE TYPE SCH 40 PVC

   SOLID PIPE LENGTH 29.9 ft.

   JOINT TYPE SLIP/GLUED THREADED

5. TYPE OF BACKFILL Natural Sand & Gravel

   HOW INSTALLED - ~~TREMIE~~ FROM SURFACE

6. TYPE OF LOWER SEAL (IF INSTALLED)

   Granular Bentonite

7. SCREEN TYPE SCH 40 PVC

   SCREEN LENGTH 10.0'

   SLOT-SIZE 0.010" LENGTH 9.6 ft.

   SCREEN DIAMETER 2.0 in.

8. TYPE OF BACKFILL AROUND SCREEN

   Natural Sand & Gravel

9. TYPE OF BACKFILL None

10. DRILLING METHOD 4¼" HSA

11. ADDITIVES USED (IF ANY)

    None

WATER LEVEL 30.5' DATE 5/29/87

*ALL DEPTHS MEASURED FROM GROUND SURFACE.

WARZYN

LOG OF TEST BORING

Project: Beloit Corporation

Location: Rockton, Illinois

Boring No. SP-11
Surface Elevation 763.3
Job No. C 12749.02
Sheet 1 of 2

WARZYN ENGINEERING INC. • ONE SCIENCE COURT • UNIVERSITY RESEARCH PARK • P.O. BOX 5385 • MADISON, WISCONSIN 53705

SAMPLE						VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
No.	Type	Recovery	Moisture	N	Depth		qu	HNu (ppm)	LL	PL	D
						Black Fine Sandy CLAY, Trace to Little Silt (Topsoil)					
					5	Dense Yellow Brown Fine to Coarse Sandy GRAVEL		0			
					10			0			
					15	Pockets of Fine to Medium Sand Occasional Cobble		0			
					20			0			
					25			BMDL			
					30			0			
						Dense Silty Fine Brown SAND					
					35			0			
					40			0			
					45			0			
						End of Boring 45' Install Well at 44.7'					

(Continued)

WARZYN

LOG OF TEST BORING

Project: Beloit Corporation

Location: Rockton, Illinois

Boring No.: SP-11

Surface Elevation: 763.3

Job No.: C 12749.02

Sheet 2 of 2

WARZYN ENGINEERING INC. • ONE SCIENCE COURT • UNIVERSITY RESEARCH PARK • P.O. BOX 5385 • MADISON, WISCONSIN 53705

SAMPLE						VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
		Recovery	Moisture								
No.	Type	↓	↓	N	Depth		qu	W	LL	PL	D
					50						
					55						
					60						
					65						
					70						
					75						
					80						
					85						

WATER LEVEL OBSERVATIONS

While Drilling

Upon Completion of Drilling

Time After Drilling 1/2 hr.

Depth to Water 39.5

Depth to Cave In

GENERAL NOTES

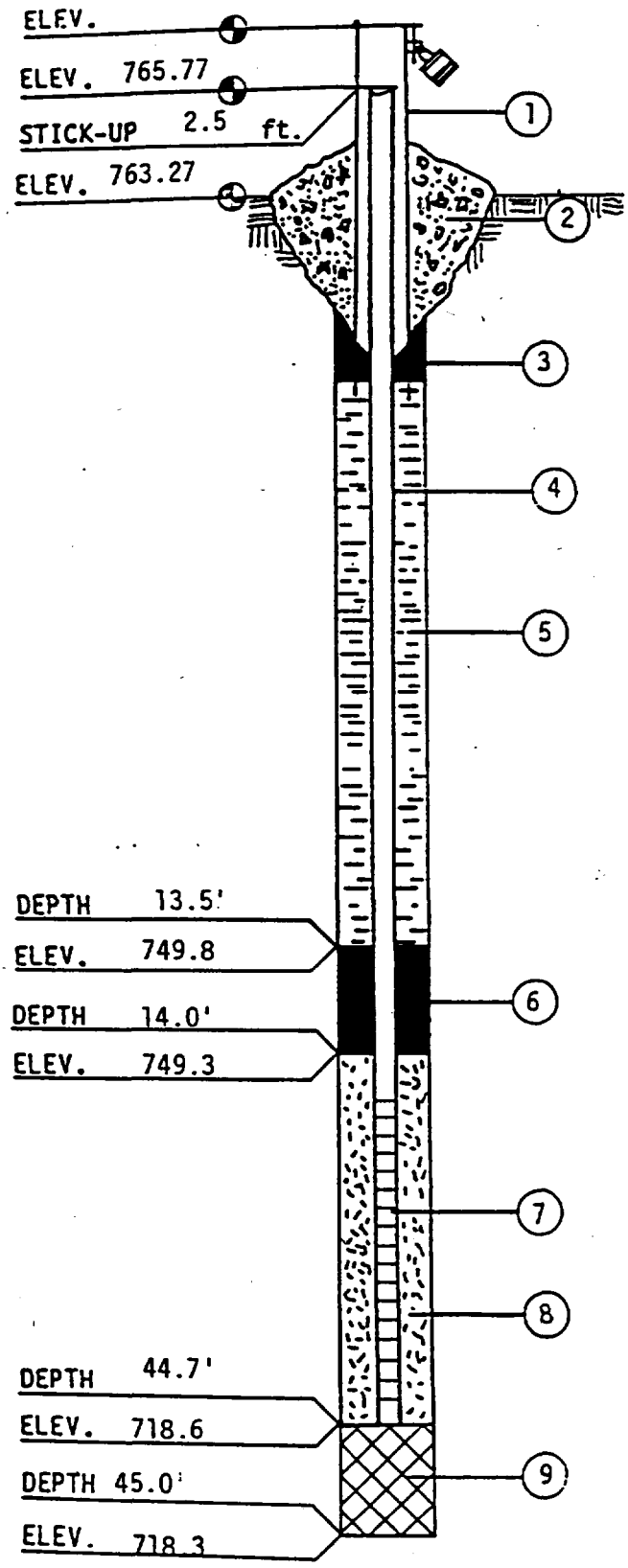
Start 5/27/87 Complete 5/27/87

Crew Chief MG Rig 9910

Drilling Method

4-1/4" HSA 0-44.7'

ED 0-44.7' ; AS 0-44.7'



WARZYN ENGINEERING INC

MONITORING WELL CONSTRUCTION INFORMATION

JOB NO. 12749.02

BORING/WELL NO. SP-11

DATE 5/27/87

CHIEF/UNIT MG/9910

1. PROTECTIVE CASING YES NO

   LOCKING YES NO

2. CONCRETE SEAL YES NO

3. TYPE OF SURFACE SEAL (IF INSTALLED)
   None

4. SOLID PIPE TYPE SCH 40 PVC

   SOLID PIPE LENGTH 37.2 ft.

   JOINT TYPE SLIP/GLUED THREADED

5. TYPE OF BACKFILL Natural Sand & Gravel

   HOW INSTALLED - ~~TREMIE~~ FROM SURFACE

6. TYPE OF LOWER SEAL (IF INSTALLED)
   Granular Bentonite

7. SCREEN TYPE SCH 40 PVC

   SCREEN LENGTH 10.0'

   SLOT-SIZE 0.010" LENGTH 9.6 ft.

   SCREEN DIAMETER 2.0 in.

8. TYPE OF BACKFILL AROUND SCREEN
   Natural Sand & Gravel

9. TYPE OF BACKFILL Natural

10. DRILLING METHOD 4¼" HSA

11. ADDITIVES USED (IF ANY)
    None

WATER LEVEL 39.5' DATE 5/27/87

*ALL DEPTHS MEASURED FROM GROUND SURFACE.

WARZYN

LOG OF TEST BORING

Project: Beloit Corporation

Location: Rockton, Illinois

Boring No. SP-12
Surface Elevation 772.0
Job No. C 12749.02
Sheet 1 of 2

WARZYN ENGINEERING INC. • ONE SCIENCE COURT • UNIVERSITY RESEARCH PARK • P.O. BOX 5385 • MADISON, WISCONSIN 53705

SAMPLE						VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
Recovery			Moisture								
No.	Type	↓	↓	N	Depth		qu	HNu (ppm)	LL	PL	D
						Black Fine Sandy Clay (Topsoil)					
					5	Medium Dense Yellow Brown Fine to Coarse SAND, Coarse Gravel, Some Fine Gravel, Trace to Little Silt.		0			
					10			0			
					15			0			
					20			0			
					25			0			
					30			0			
					35			0			
					40			0			
					45			0			
						End of Boring 45' Install Well at 44.5'					

(Continued)

WARZYN

LOG OF TEST BORING

Project: Beloit Corporation

Location: Rockton, Illinois

Boring No. SP-12

Surface Elevation 772.0

Job No. C 12749.02

Sheet 2 of 2

WARZYN ENGINEERING INC. • ONE SCIENCE COURT • UNIVERSITY RESEARCH PARK • P.O. BOX 5385 • MADISON, WISCONSIN 53705

SAMPLE						VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
	Recovery		Moisture								
No.	Type	↓	↓	N	Depth		qu	W	LL	PL	D
					50						
					55						
					60						
					65						
					70						
					75						
					80						
					85						

WATER LEVEL OBSERVATIONS

While Drilling

Upon Completion of Drilling

Time After Drilling

Depth to Water

Depth to Cave In

GENERAL NOTES

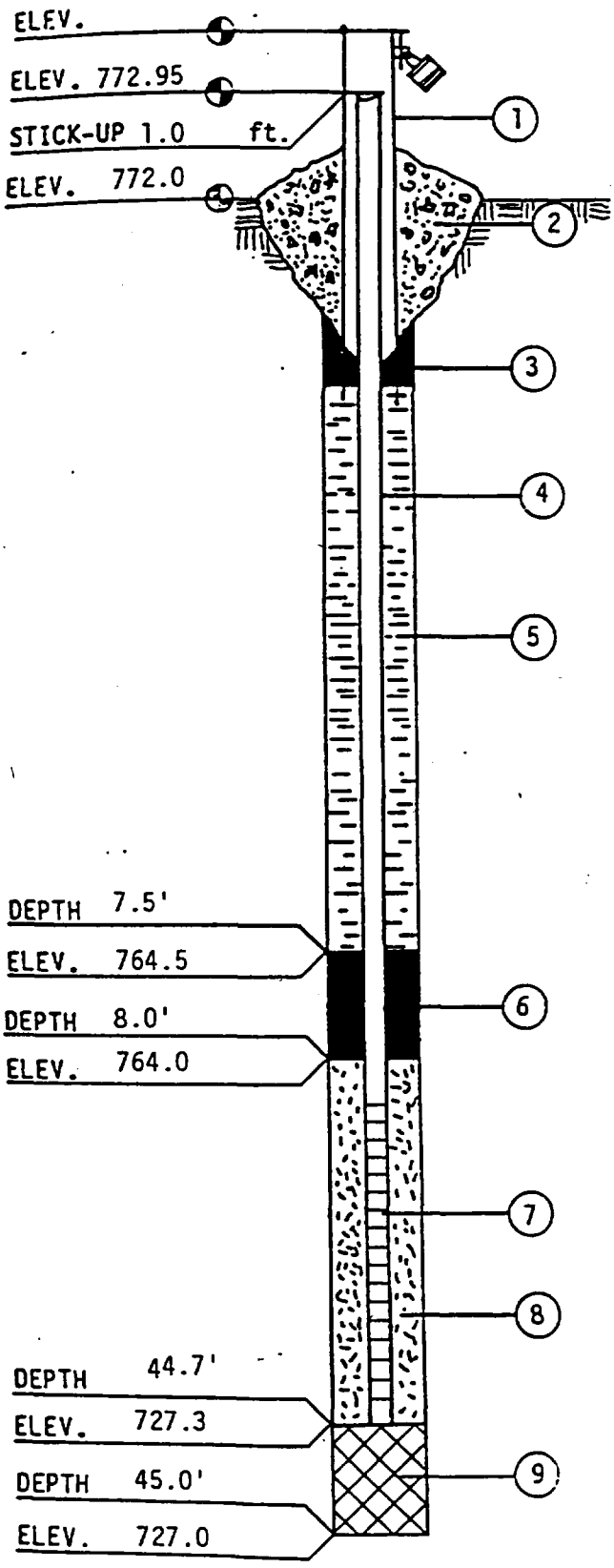
Start 5/26/87 Complete 5/26/87

Crew Chief MG Rig 9910

Drilling Method

4-1/4" HSA 0-45'

ED 0-45'; AS 0-45'



WARZYN ENGINEERING INC

MONITORING WELL CONSTRUCTION INFORMATION

JOB NO. 12749.02

BORING/WELL NO. SP-12

DATE 5/26/87

CHIEF/UNIT MG/9910

1. PROTECTIVE CASING YES NO

   LOCKING YES NO

2. CONCRETE SEAL YES NO

3. TYPE OF SURFACE SEAL (IF INSTALLED)

   None

4. SOLID PIPE TYPE SCH 40 PVC

   SOLID PIPE LENGTH 35.7 ft.

   JOINT TYPE SLIP/GLUED THREADED

5. TYPE OF BACKFILL Natural Sand & Gravel

   HOW INSTALLED - TREMIE FROM SURFACE

6. TYPE OF LOWER SEAL (IF INSTALLED)

   Granular Bentonite

7. SCREEN TYPE SCH 40 PVC

   SCREEN LENGTH 10.0'

   SLOT-SIZE 0.010" LENGTH 9.6 ft.

   SCREEN DIAMETER 2.0 in.

8. TYPE OF BACKFILL AROUND SCREEN

   Natural Sand & Gravel

9. TYPE OF BACKFILL Sand & Gravel

10. DRILLING METHOD 4¼" HSA

11. ADDITIVES USED (IF ANY)

    None

WATER LEVEL Dry DATE 5/26/87

*ALL DEPTHS MEASURED FROM GROUND SURFACE.

WARZYN ENGINEERING INC

LOG OF TEST BORING

Project: Beloit Corporation

Location: Rockton, Illinois

Boring No.: 1

Surface Elevation: 746.9

Job No.: C 11440/8000145

Sheet: 1 of 1

1409 EMIL STREET • P.O. BOX 9538, MADISON, WIS. 53715 • TEL. (608) 257-4848

SAMPLE						VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
No.	Type	Recovery	Moisture	N	Depth		q_u	W	LL	PL	D
						Black TOPSOIL					
					5	Very Fine to Fine to Medium SAND and GRAVEL					
					10						
					15						
					20						
					25						
					30						
					35						
					40	End Boring at 37' Install well at 37'					

WATER LEVEL OBSERVATIONS

While Drilling

Upon Completion of Drilling

Time After Drilling

Depth to Water

Depth to Cave In

GENERAL NOTES

Start: 10/27/83 Complete: 10/27/83

Crew Chief: SJW Rig: 919

Drilling Method: DC(4") 0-10'
FA 0-9'; WB 0-37';
ED 9-37'

W-1

WELL DETAIL INFORMATION SHEET

JOB NO. C 11440/800006

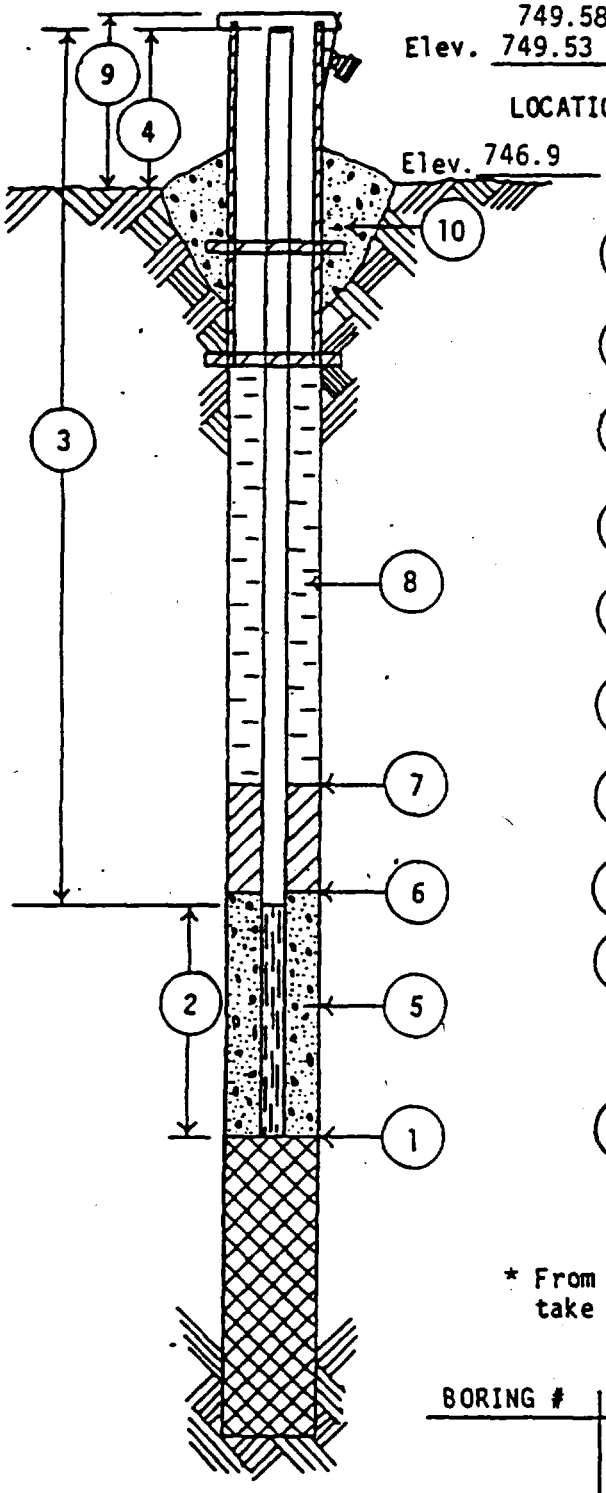
BORING NO. 1

DATE 10/27/83

Elev. 749.58 Steel / 749.53 PVC CHIEF SJW

LOCATION Beloit Corporation; Rockton, Illinois

All depth measurements of well detail assumed to be from ground surface unless otherwise indicated.



1. DEPTH TO BOTTOM OF BOREHOLE 37 FEET
2. LENGTH OF WELL POINT, WELL SCREEN, OR SLOTTED PIPE 10 FEET
3. TOTAL LENGTH OF SOLID PIPE 29.5 FEET @ 2 IN. DIAMETER
4. HEIGHT OF WELL CASING ABOVE GROUND 2.5 FEET
5. TYPE OF FILTER MATERIAL AROUND WELL POINT OR SLOTTED PIPE Sand
6. DEPTH OF LOWER OR BOTTOM SEAL 4 FEET
7. DEPTH OF UPPER OR TOP SEAL 0 FEET
8. TYPE OF BACKFILL Spoils
9. PROTECTIVE CASING YES NO
   HEIGHT ABOVE GROUND 2.5'
   LOCKING CAP YES NO
10. CONCRETE CAP YES NO

WATER LEVEL CHECKS

* From top of casing, if protective casing higher take measurement from top of protective casing.

BORING #	DATE	TIME	DEPTH TO WATER	REMARKS

WARZYN ENGINEERING INC.

[PJS-7-45]

WARZYN ENGINEERING INC

LOG OF TEST BORING

Project: Beloit Corporation

Location: Rockton, Illinois

Boring No. 2

Surface Elevation 752.9

Job No. C 11440/800145

Sheet 1 of 1

1409 EMIL STREET • P.O. BOX 9536, MADISON, WIS. 53715 • TEL. (608) 257-4848

SAMPLE						VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
No.	Type	Recovery	Moisture	N	Depth		q_u	W	LL	PL	D
						Black TOPSOIL					
					5	Very Fine to Fine to Medium SAND and GRAVEL, Trace to Little Silt					
					10						
					15						
					20						
					25						
					30						
					35						
					40	End Boring at 37' Install well at 37'					

WATER LEVEL OBSERVATIONS

While Drilling

Upon Completion of Drilling

Time After Drilling

Depth to Water

Depth to Cave In

GENERAL NOTES

Start 10/26/84 Complete 10/26/84

Crew Chief SJW Rig 919

Drilling Method FA 0-9'
DC(4") 0-9'; WB 9-37'
ED 9-37'

WELL DETAIL INFORMATION SHEET

JOB NO. C 11440/800006

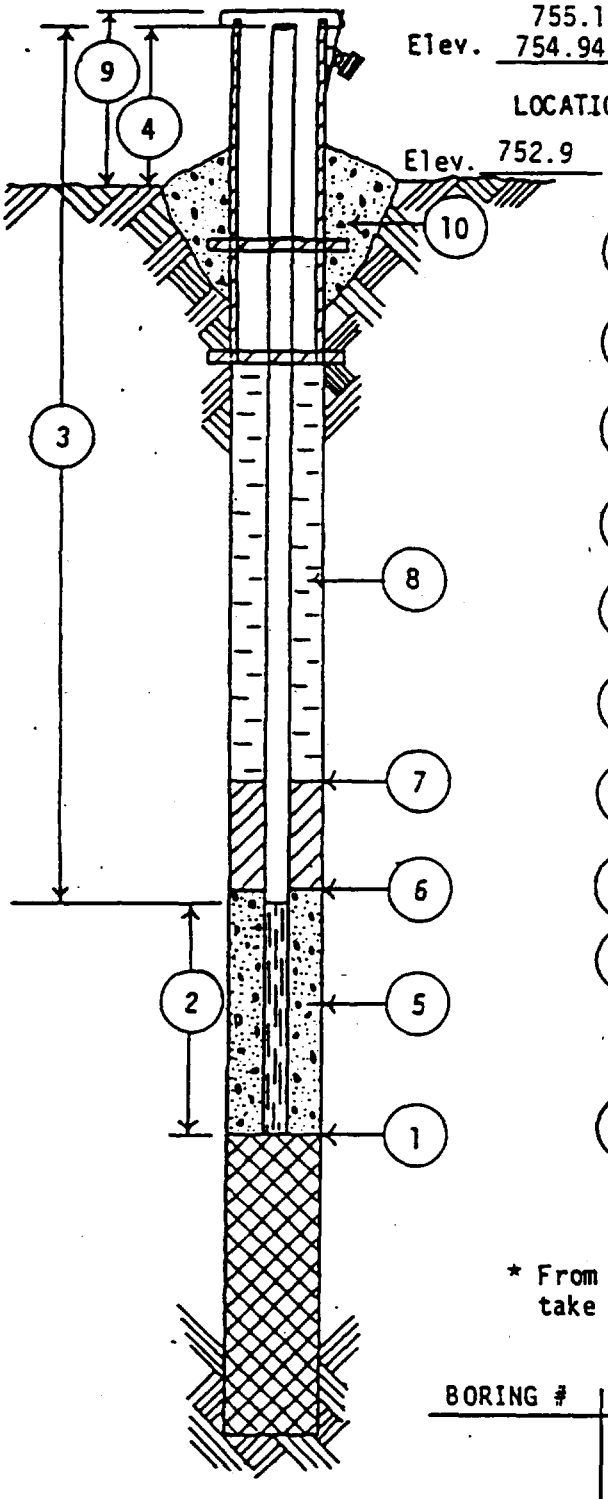
BORING NO. 2

DATE 10/26/83

Elev. 755.12 Steel / 754.94 PVC CHIEF SJW

LOCATION Beloit Corporation; Rockton, Illinois

All depth measurements of well detail assumed to be from ground surface unless otherwise indicated.



1. DEPTH TO BOTTOM OF BOREHOLE 37 FEET
2. LENGTH OF WELL POINT, WELL SCREEN, OR SLOTTED PIPE 10 FEET
3. TOTAL LENGTH OF SOLID PIPE 29 FEET @ 2 IN. DIAMETER
4. HEIGHT OF WELL CASING ABOVE GROUND 2 FEET
5. TYPE OF FILTER MATERIAL AROUND WELL POINT OR SLOTTED PIPE Sand
6. DEPTH OF LOWER OR BOTTOM SEAL 4 FEET
7. DEPTH OF UPPER OR TOP SEAL 0 FEET
8. TYPE OF BACKFILL Spoils
9. PROTECTIVE CASING YES NO
   HEIGHT ABOVE GROUND 2'
   LOCKING CAP YES NO
10. CONCRETE CAP YES NO

WATER LEVEL CHECKS

* From top of casing, if protective casing higher take measurement from top of protective casing.

BORING #	DATE	TIME	DEPTH TO WATER	REMARKS

WARZYN ENGINEERING INC

[PJS-7-45]

WARZYN ENGINEERING INC

LOG OF TEST BORING

Project: Beloit Corporation

Location: Rockton, Illinois

Boring No. 3

Surface Elevation 743.8

Job No. C 11440/800145

Sheet 1 of 1

1409 EMIL STREET • P.O. BOX 9638, MADISON, WIS. 53715 • TEL. (608) 257-4848

SAMPLE						VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
Recovery			Moisture								
No.	Type	↓	↓	N	Depth		q_u	W	LL	PL	D
						Black TOPSOIL					
					5	Very Fine to Fine to Medium SAND with GRAVEL, Trace to Little Silt					
					10						
					15						
					20	SAND					
					25						
					30						
					35						
					40	End Boring at 37' Installed 37' well with 10' screen and 2 1/2' up.					

WATER LEVEL OBSERVATIONS

While Drilling

Upon Completion of Drilling

Time After Drilling

Depth to Water

Depth to Cave In

GENERAL NOTES

Start 10/26/83 Complete 10/26/83

Crew Chief SJW Rig 919

Drilling Method FA 0-10'
DC(4") 0-10'; WB 10-37'
ED 10-37'

W-1

WELL DETAIL INFORMATION SHEET

JOB NO. C 11440/800006

BORING NO. 3

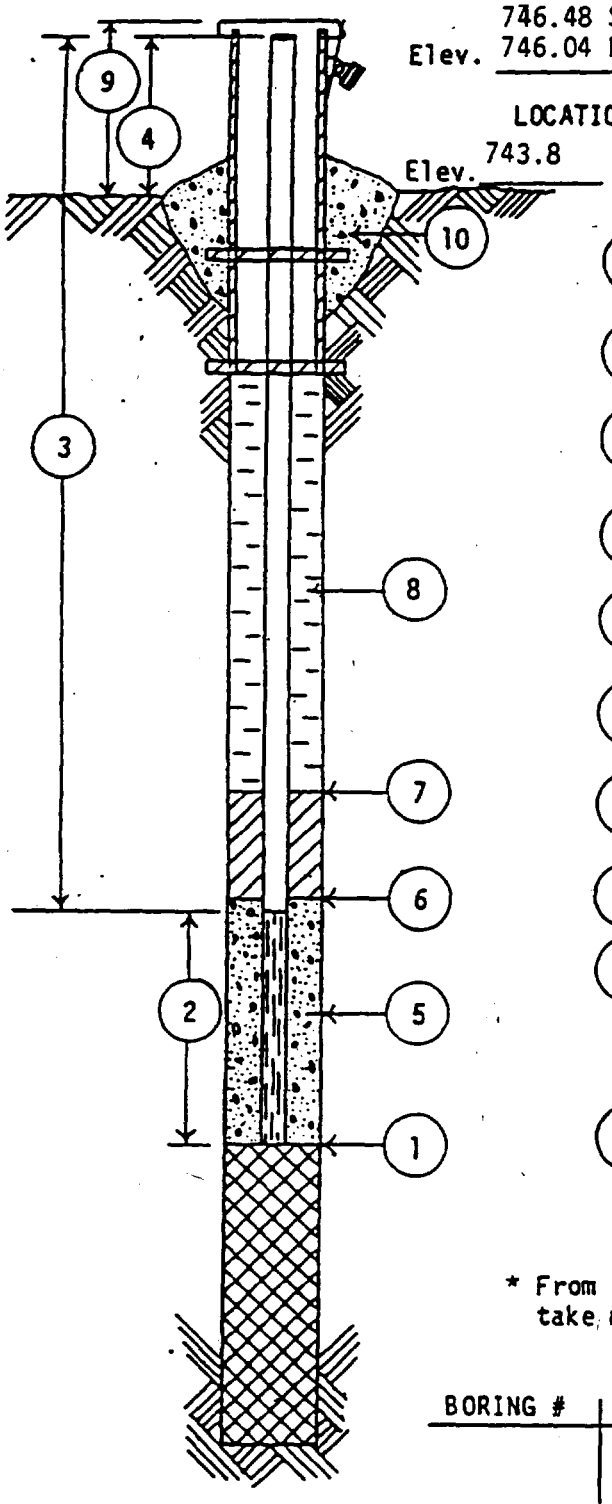
DATE 10/26/83

CHIEF SJW

Elev. 746.48 Steel / 746.04 PVC

LOCATION

Elev. 743.8



All depth measurements of well detail assumed to be from ground surface unless otherwise indicated.

1. DEPTH TO BOTTOM OF BOREHOLE 37 FEET
2. LENGTH OF WELL POINT, WELL SCREEN, OR SLOTTED PIPE 10 FEET
3. TOTAL LENGTH OF SOLID PIPE 29.5 FEET @ 2 IN. DIAMETER
4. HEIGHT OF WELL CASING ABOVE GROUND 2.5 FEET
5. TYPE OF FILTER MATERIAL AROUND WELL POINT OR SLOTTED PIPE Sand (Spoil)
6. DEPTH OF LOWER OR BOTTOM SEAL 4 FEET
7. DEPTH OF UPPER OR TOP SEAL 0 FEET
8. TYPE OF BACKFILL Spoils
9. PROTECTIVE CASING YES NO
   HEIGHT ABOVE GROUND 2.5'
   LOCKING CAP YES NO
10. CONCRETE CAP YES NO

WATER LEVEL CHECKS

* From top of casing, if protective casing higher take measurement from top of protective casing.

BORING #	DATE	TIME	DEPTH TO WATER	REMARKS

WARZYN ENGINEERING INC

[PJS-7-45]

LOG OF TEST BORING

WARZYN

Project: Beloit Corporation RI/FS

Location: Rockton, Illinois

Boring No. W03R
Surface Elevation 744.0
Job No. 1526892
Sheet 1 of 1

ONE SCIENCE COURT, P.O. BOX 5385, MADISON, WI 53705 (608) 231-4747

SAMPLE					VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
No.	Type	Rec (in.)	Moist	N	Depth		PID	Qu	LL	PL	P200
					Earth Drilled to 29.5 ft. See Boring Log W03 for Soil Descriptions						
					5						
					10						
					15						
					20						
					25						
					30	End of Boring at 29.5 ft Install Well at 29.5 ft					
					35						
					40						

WATER LEVEL OBSERVATIONS

While Drilling ▽ 21.7 ft. Upon Completion of Drilling _____ ft.
Time After Drilling _____
Depth to Water _____ ▼
Depth to Cave in _____

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

GENERAL NOTES

Start 7/27/92 End 7/27/92
Driller Layne NW Chief MB Rig B-57
Logger TJM Editor RJR/JEM
Drill Method 4 1/4" I.D. HSA

WARZYN ENGINEERING INC

LOG OF TEST BORING

Project: Beloit Corporation

Location: Rockton, Illinois

Boring No. W-4
Surface Elevation 752.7
Job No. C 11440/800145
Sheet 1 of 1

1409 EMIL STREET • P.O. BOX 8636, MADISON, WIS. 53715 • TEL. (608) 257-4848

SAMPLE No.	Type	Recovery	Moisture	N	Depth	VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES qu	W	LL	PL	D
						Dark Brown Sandy SILT					
1	SS	X	M	18	5	Brown Fine to Medium SAND, Some Gravel, Little to Some Silt (SM)					
2	SS	X	M	100	10						
3	SS	X	M	100	15	Brown Silty Fine to Medium GRAVEL and SAND (GM)					
4	SS	NR		100	20						
5	SS	X	W	100	25						
6	SS	NR		100	30						
7	SS	X	W	75	35	Brown Silty Very Fine to Fine SAND (SM)					
8	SS	X	W	100	40	Install Well at 38'					
						End Boring at 40'					

WATER LEVEL OBSERVATIONS

While Drilling
Upon Completion of Drilling
Time After Drilling 1 1/2 hour
Depth to Water 30'
Depth to Cave In

GENERAL NOTES

Start 4/23/84 Complete 4/23/84
Crew Chief SW/MG Rig 9100
Drilling Method
DC(4") 0-34'
WB w/CW 0-40'
SPT 0-40'

WELL DETAIL INFORMATION SHEET

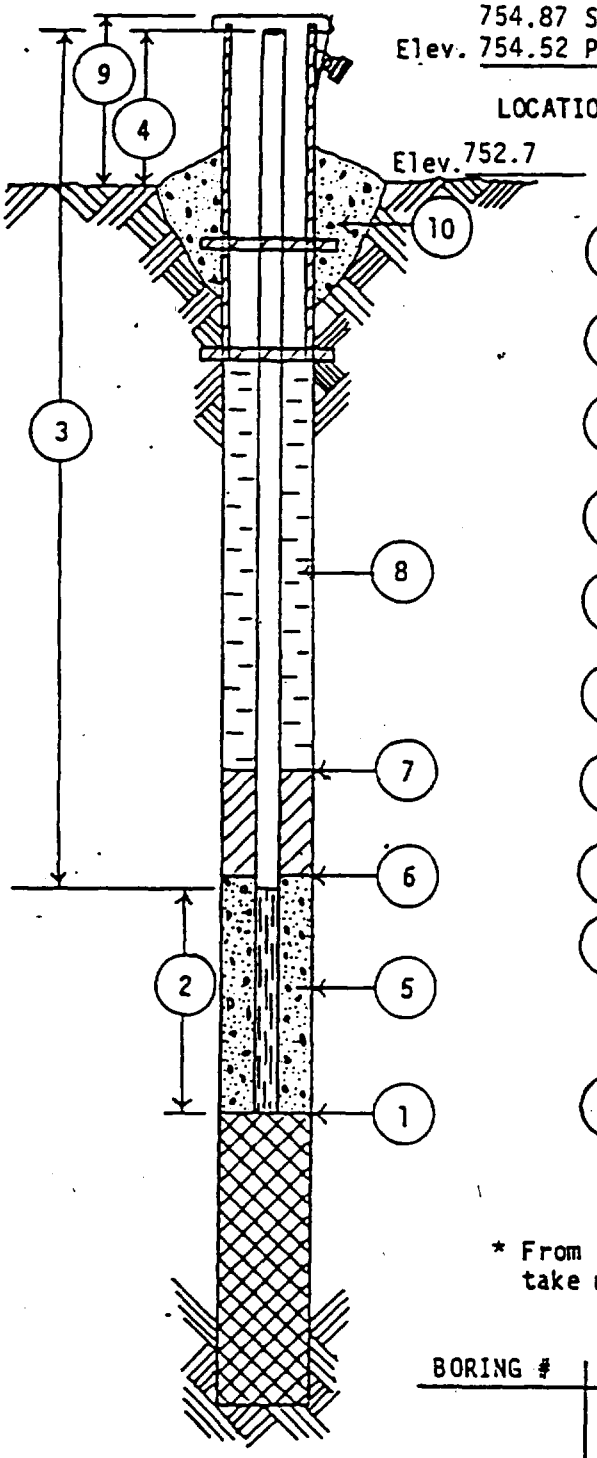
JOB NO. C 11440/800145

BORING NO. W-4

DATE 4/24/84

CHIEF SJW

LOCATION Beloit Corporation; Blackhawk Facility



All depth measurements of well detail assumed to be from ground surface unless otherwise indicated.

1. DEPTH TO BOTTOM OF BOREHOLE 38 FEET
2. LENGTH OF WELL POINT, WELL SCREEN, OR SLOTTED PIPE 10 FEET
3. TOTAL LENGTH OF SOLID PIPE 29.8 Flush Joint FEET @ 2 IN. DIAMETER
4. HEIGHT OF WELL CASING ABOVE GROUND 1.8 FEET
5. TYPE OF FILTER MATERIAL AROUND WELL POINT OR SLOTTED PIPE Sand
6. DEPTH OF LOWER OR BOTTOM SEAL 4 FEET
7. DEPTH OF UPPER OR TOP SEAL 0 FEET
8. TYPE OF BACKFILL Sand
9. PROTECTIVE CASING YES NO
   HEIGHT ABOVE GROUND 2'
   LOCKING CAP YES NO
10. CONCRETE CAP YES NO

WATER LEVEL CHECKS

* From top of casing, if protective casing higher take measurement from top of protective casing.

BORING #	DATE	TIME	DEPTH TO WATER	REMARKS

WARZYN ENGINEERING INC.

[PJS-7-45]

WARZYN ENGINEERING INC

LOG OF TEST BORING

Project: Beloit Corporation

Location: Rockton, Illinois

Boring No. W-5 (P-3A)
Surface Elevation 743.7
Job No. C 11440/800145
Sheet 1 of 2

1409 EMIL STREET • P.O. BOX 9538, MADISON, WIS. 53715 • TEL. (608) 257-4848

SAMPLE No.	Type	Recovery	Moisture	N	Depth	VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES qu	W	LL	PL	D
						Dark Brown Sandy SILT					
1	SS	X	M	42	5	Brown Silty Medium to Coarse GRAVEL and SAND (GM)					
2	SS	X	M	100	10						
3	SS	X	M	60	15						
4	SS	NR		100	20	Brown Fine to Medium SAND, Trace to Little Silt, Trace to Little Gravel (SP-SM)					
5	SS	X	W	45	25						
6	SS	X		100	30						
7	SS	X	M	63	35	Orange Color at 34'					
						Brown Sandy SILT, Trace Clay (ML)					
8	SS	X	W	13	40	Gray Finely Laminated SILT and Fine SAND, Occasional Layers Organic Silt					
9	SS	X	W	54	45	Brown Very Fine to Fine SAND, Little Silt (SM)					

(Continued)

WARZYN ENGINEERING INC

LOG OF TEST BORING

Project: Beloit Corporation

Location: Rockton, Illinois

Boring No.: W-5 (P-3A)

Surface Elevation: 743.7

Job No.: C 11440/800145

Sheet 2 of 2

1409 EMIL STREET • P.O. BOX 9536, MADISON, WIS. 53715 • TEL. (608) 257-4648

SAMPLE No.	Type	Recovery	Moisture	N	Depth	VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES qu	W	LL	PL	D
						Brown Very Fine to Fine SAND, Little Silt (SM)					
10	SS	NR		65	50						
11	SS	X		60/9"	55	Coarse Sand at 55'					
					60	End Boring at 58'					
						Install Piezometer at 52.5'					
					65						
					70						
					75						
					80						
					85						

WATER LEVEL OBSERVATIONS

While Drilling

Upon Completion of Drilling

Time After Drilling

Depth to Water

Depth to Cave In

GENERAL NOTES

Start 4/24/84 Complete 4/24/84

Crew Chief SJW/MG Rig 9100

Drilling Method DC 0-34'
WB w/CW 0-58'
SPT 0-55'

WELL DETAIL INFORMATION SHEET

JOB NO. C 11440/800145

BORING NO. W-5(P-3A)

DATE 4/25/84

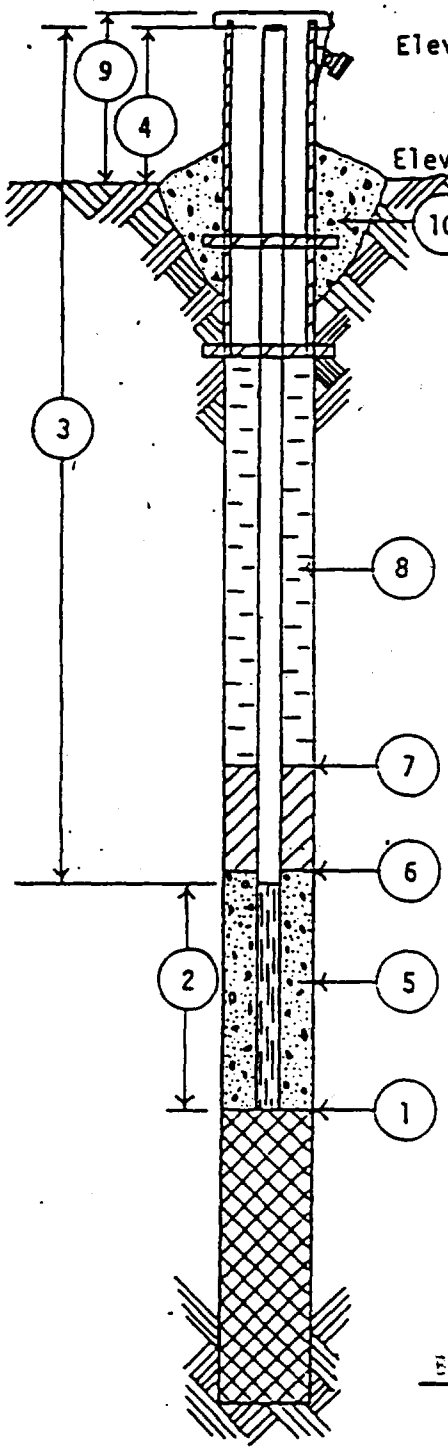
CHIEF SJW

Elev. 746.54 Steel
746.38 PVC

LOCATION Beloit Corporation; Blackhawk Facility

Elev. 743.7

All depth measurements of well detail assumed to be from ground surface unless otherwise indicated.



1. DEPTH TO BOTTOM OF BOREHOLE 52.5 FEET
2. LENGTH OF WELL POINT, WELL SCREEN, OR SLOTTED PIPE 5 FEET
3. TOTAL LENGTH OF SOLID PIPE 50.2 Flush Joint FEET @ 2 IN. DIAMETER
4. HEIGHT OF WELL CASING ABOVE GROUND 2.7 FEET
5. TYPE OF FILTER MATERIAL AROUND WELL POINT OR SLOTTED PIPE Sand
6. DEPTH OF LOWER OR BOTTOM SEAL 45 FEET
7. DEPTH OF UPPER OR TOP SEAL 40 FEET
8. TYPE OF BACKFILL Sand
9. PROTECTIVE CASING YES NO
   HEIGHT ABOVE GROUND 2.8'
   LOCKING CAP YES NO
10. CONCRETE CAP YES NO

WATER LEVEL CHECKS

* From top of casing, if protective casing higher take measurement from top of protective casing.

BORING #	DATE	TIME	DEPTH TO WATER	REMARKS

WARZY ENGINEERING

[PJS-7-45]

WARZYN

LOG OF TEST BORING

Project: Beloit Corporation RI/FS

Location: Rockton, Illinois

Boring No. W05R
Surface Elevation 744.0
Job No. 1526892
Sheet 1 of 2

ONE SCIENCE COURT, P.O. BOX 5385, MADISON, WI 53705 (608) 231-4747

SAMPLE						VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
No.	TYPE	Rec (in.)	Moist	N	Depth		PID	Qu	LL	PL	P200
						Earth Drilled to 58.0 ft. See Boring Log W05 for Soil Descriptions.					
					5						
					10						
					15						
					20						
					25						
					30						
					35						
					40						

WATER LEVEL OBSERVATIONS

While Drilling ▽ 21.5 ft. Upon Completion of Drilling _____ ft.
Time After Drilling _____ _____ _____ _____
Depth to Water _____ _____ _____ _____ ▼
Depth to Cave in _____ _____ _____ _____

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

GENERAL NOTES

Start 8/3/92 End 8/3/92
Driller Layne NW Chief MB Rig B-57
Logger TJD Editor RJR/JEM
Drill Method 4 1/4" I.D. HSA

LOG OF TEST BORING

WARZYN

Project: Beloit Corporation RI/FS

Location: Rockton, Illinois

Boring No. W05R
Surface Elevation 744.0
Job No. 1526892
Sheet 2 of 2

ONE SCIENCE COURT P.O. BOX 5385, MADISON, WI 53705 (608) 231-4747

SAMPLE						VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
No.	TYPE	Rec (in.)	Moist	N	Depth		PID	Qu	LL	PL	P200
					45						
					50						
					55						
					60	End of Boring at 58.0 ft Install Piezometer at 58.0 ft					
					65						
					70						
					75						
					80						

WARZYN ENGINEERING INC

LOG OF TEST BORING

Project: Beloit Corporation

Location: Rockton, Illinois

Boring No.: W-6(W-5)

Surface Elevation: 745.2

Job No.: C 11440/800145

Sheet 1 of 1

1409 EMIL STREET • P.O. BOX 9636, MADISON, WIS. 53715 • TEL. (608) 257-4848

SAMPLE No.	Type	Recovery	Moisture	N	Depth	VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES qu	W	LL	PL	D
1	SS	X	M	11	5	Dark Brown Sandy SILT (ML)					
2	SS	X	M	38	10	Brown Silty Fine to Coarse GRAVEL and SAND (GM)					
3	SS	X	M	32	15						
4	SS	X	W	22	20	Brown Silty Fine to Medium SAND, Little Gravel (SM)					
5	SS	X	M	100	25	Harder Drilling at 25'					
6	SS	X	M	73	30						
7	SS	X	M	76	35						
8	SS	X	M	100	40	Gray Very Silty Fine to Medium SAND (SM) to Gray Sandy Silt (ML) Install Well at 38.4'					
						End Boring at 40'					

WATER LEVEL OBSERVATIONS

While Drilling

Upon Completion of Drilling

Time After Drilling

Depth to Water

Depth to Cave In

GENERAL NOTES

Start 4/20/84 Complete 4/20/84

Crew Chief SW/MG Rig 9100

Drilling Method DC(4") 0-19'

WB w/CW 0-40'

SPT 0-40'

WELL DETAIL INFORMATION SHEET

JOB NO. C 11440/800145

BORING NO. W-6 (W-5)

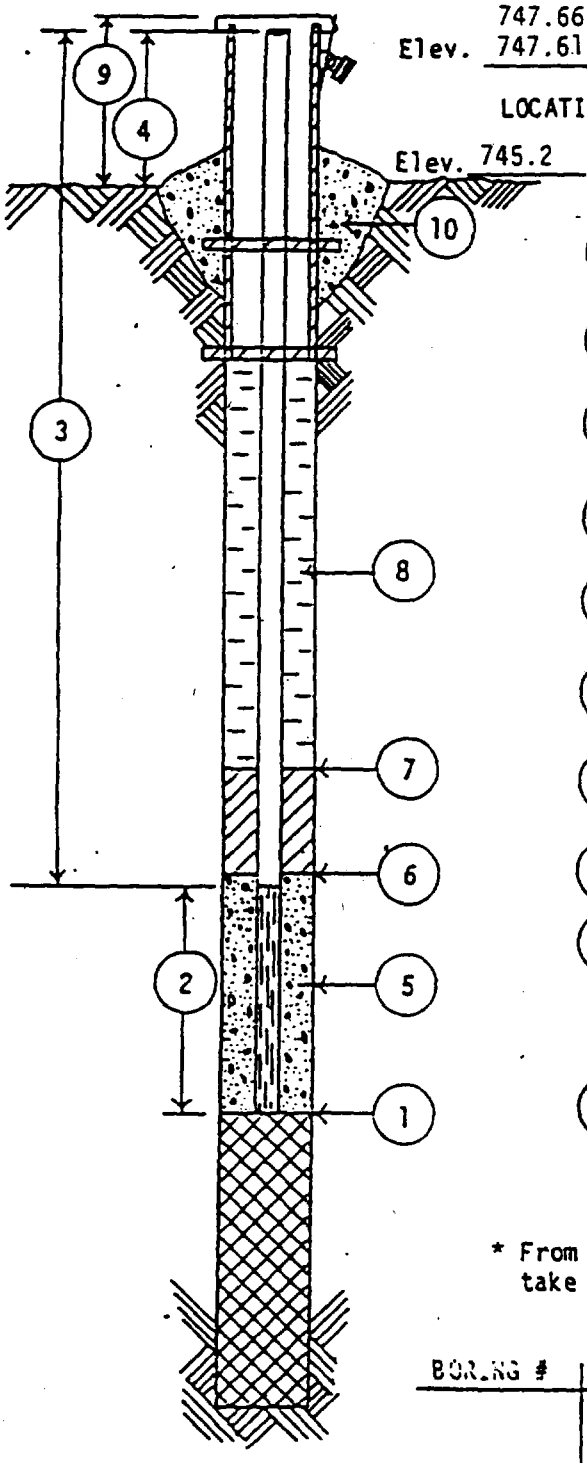
DATE 4/20/84

Elev. 747.66 Steel / 747.61 PVC

CHIEF SJW

LOCATION Beloit Corporation Blackhawk Facility

All depth measurements of well detail assumed to be from ground surface unless otherwise indicated.



(1) DEPTH TO BOTTOM OF BOREHOLE 38.4 FEET

(2) LENGTH OF WELL POINT, WELL SCREEN, OR SLOTTED PIPE 10 FEET

(3) TOTAL LENGTH OF SOLID PIPE 30.8 Flush Joint FEET @ 2 IN. DIAMETER

(4) HEIGHT OF WELL CASING ABOVE GROUND 2.4 FEET

(5) TYPE OF FILTER MATERIAL AROUND WELL POINT OR SLOTTED PIPE Sand

(6) DEPTH OF LOWER OR BOTTOM SEAL 4 FEET

(7) DEPTH OF UPPER OR TOP SEAL 0 FEET

(8) TYPE OF BACKFILL Sand

(9) PROTECTIVE CASING YES NO

HEIGHT ABOVE GROUND 2.5'

LOCKING CAP YES NO

(10) CONCRETE CAP YES NO

WATER LEVEL CHECKS

* From top of casing, if protective casing higher take measurement from top of protective casing.

BORING #	DATE	TIME	DEPTH TO WATER	REMARKS

WARZY ENGINEERING

[PJS-7-45]

WARZYN ENGINEERING INC

LOG OF TEST BORING

Project: Beloit Corporation

Location: Rockton, Illinois

Boring No. W-7

Surface Elevation 749.1

Job No. C 11440/800145

Sheet 1 of 1

1409 EMIL STREET • P.O. BOX 9538, MADISON, WIS. 53715 • TEL. (608) 257-4848

SAMPLE No.	Type	Recovery	Moisture	N	Depth	VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES qu	W	LL	PL	D
						Dark Brown Silty Sandy TOPSOIL					
1	SS	X	M	52	5	Brown Silty Medium GRAVEL and Fine to Coarse SAND (GM)					
2	SS	X	M	100	10						
3	SS	X	M	90	15						
4	SS	X	W	25	20	Light Brown Silty Very Fine to Fine SAND, Trace Gravel (SM)					
5	SS	X	M-W	76	25	Pink to Brown Very Silty Very Fine to Medium SAND, Trace to Little Gravel, Occasional Very Thin Layers with Clay (SM)					
6	SS	X	W	60/8"	30	Brown Silty Fine to Medium SAND, Little Gravel (SM)					
7	SS	X	W	60/8"	35	Brown Silty Very Fine to Medium SAND, Trace Gravel (SM)					
						Brown Silty Very Fine SAND (SM) to Brown Sandy Silt (ML)					
					40	End Boring at 40'					

WATER LEVEL OBSERVATIONS

While Drilling

Upon Completion of Drilling

Time After Drilling

Depth to Water

Depth to Cave In

GENERAL NOTES

Start 4/17/84 Complete 4/17/84

Crew Chief SW/MG Rig 9100

Drilling Method DC(4") 0-23'

WB w/CW 0-40'

SPT 0-40'

WELL DETAIL INFORMATION SHEET

JOB NO. C 11440/800145

BORING NO. W-7

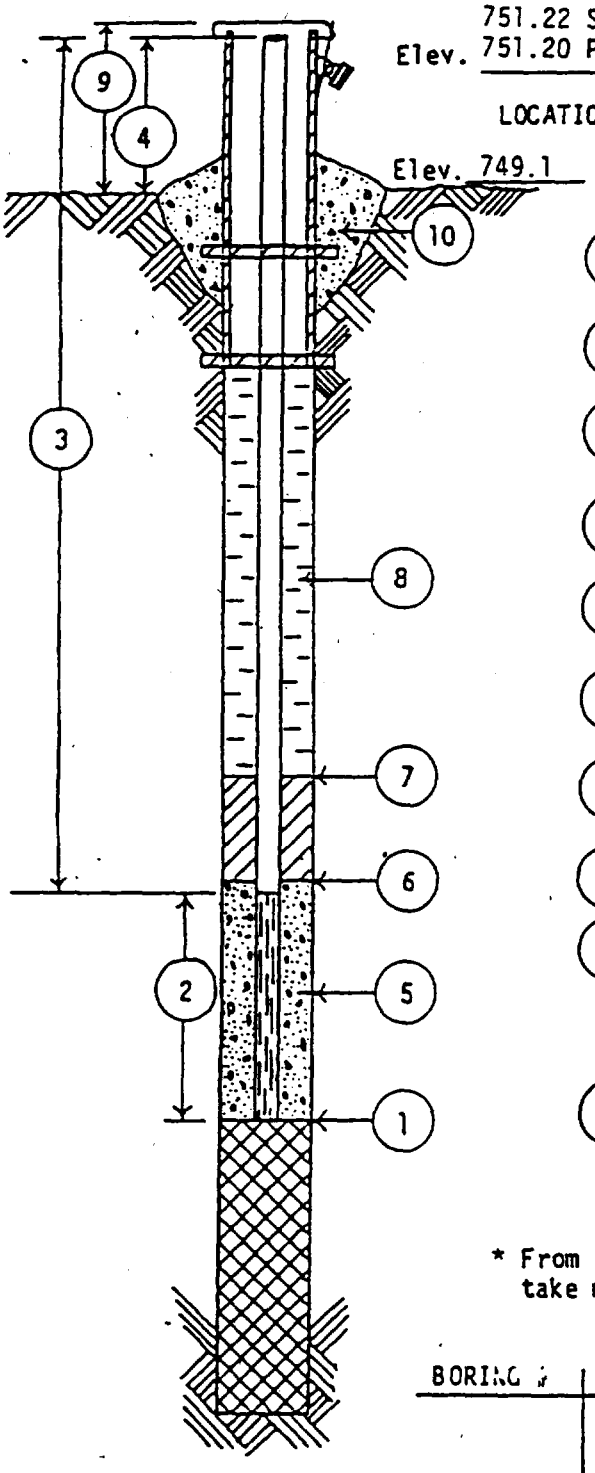
DATE 4/18/84

CHIEF SJW

Elev. 751.22 Steel / 751.20 PVC

LOCATION Beloit Corporation; Blackhawk Facility

All depth measurements of well detail assumed to be from ground surface unless otherwise indicated.



1. DEPTH TO BOTTOM OF BOREHOLE 33.4 FEET
2. LENGTH OF WELL POINT, WELL SCREEN, OR SLOTTED PIPE 10 FEET
3. TOTAL LENGTH OF SOLID PIPE 25.5 Flush Joint FEET @ 2 IN. DIAMETER
4. HEIGHT OF WELL CASING ABOVE GROUND 2.1 FEET
5. TYPE OF FILTER MATERIAL AROUND WELL POINT OR SLOTTED PIPE Sand
6. DEPTH OF LOWER OR BOTTOM SEAL 4 FEET
7. DEPTH OF UPPER OR TOP SEAL 0 FEET
8. TYPE OF BACKFILL Sand
9. PROTECTIVE CASING YES NO
   HEIGHT ABOVE GROUND 2.3'
   LOCKING CAP YES NO
10. CONCRETE CAP YES NO

WATER LEVEL CHECKS

* From top of casing, if protective casing higher take measurement from top of protective casing.

BORING #	DATE	TIME	DEPTH TO WATER	REMARKS

WARZYN ENGINEERING INC.

[PJS-7-45]

WARZYN ENGINEERING INC

LOG OF TEST BORING

Project: Beloit Corporation

Location: Rockton, Illinois

Boring No.: W-8(W-6)

Surface Elevation: 772.3

Job No.: C 11400/800145

Sheet 1 of 1

1409 EMIL STREET • P.O. BOX 8636, MADISON, WIS. 53715 • TEL. (608) 257-4848

SAMPLE						VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
No.	Type	Recovery	Moisture	N	Depth		qu	W	LL	PL	D
					10	For description of subsurface conditions refer to Boring Log W-11					
					20						
					30						
					40						
					50	Install Well at 54'					
					60	End Boring at 55'					
					70						
					80						

WATER LEVEL OBSERVATIONS

While Drilling					
Upon Completion of Drilling					
Time After Drilling	24 hours				
Depth to Water	36'				
Depth to Cave In					

GENERAL NOTES

Start 4/10/84 Complete 4/10/84

Crew Chief SJW Rig 9100

Drilling Method DC(4") 0-40'
WB w/ CW 0-40'
ED 0-40'

WELL DETAIL INFORMATION SHEET

JOB NO. C 11440/800145

BORING NO. W-8(W-6)

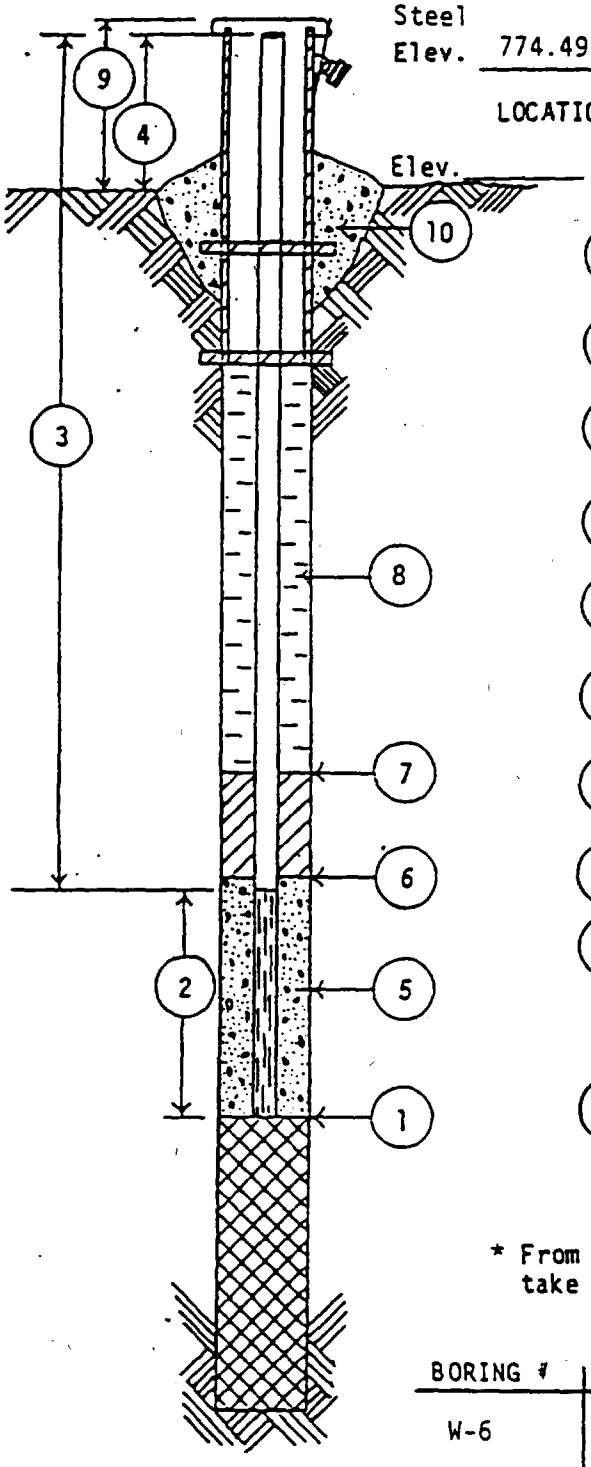
DATE 5/10/84

CHIEF MG/SL

Steel Elev. 774.49

LOCATION Beloit Corporation/ Rockton, Illinois

All depth measurements of well detail assumed to be from ground surface unless otherwise indicated.



1. DEPTH TO BOTTOM OF BOREHOLE 54 FEET
2. LENGTH OF WELL POINT, WELL SCREEN, OR SLOTTED PIPE 10 FEET
3. TOTAL LENGTH OF SOLID PIPE 46 FEET @ 2 IN. DIAMETER
4. HEIGHT OF WELL CASING ABOVE GROUND 2 FEET
5. TYPE OF FILTER MATERIAL AROUND WELL POINT OR SLOTTED PIPE Flint Sand
6. DEPTH OF LOWER OR BOTTOM SEAL 4 FEET
7. DEPTH OF UPPER OR TOP SEAL 0 FEET
8. TYPE OF BACKFILL Sand & Gravel Spoils
9. PROTECTIVE CASING YES NO
   HEIGHT ABOVE GROUND 2'
   LOCKING CAP YES NO
10. CONCRETE CAP YES NO

WATER LEVEL CHECKS

* From top of casing, if protective casing higher take measurement from top of protective casing.

BORING #	DATE	TIME	DEPTH TO WATER	REMARKS
W-6	5/10/84	1/2 hour	42.5'	

WARZY ENGINEERING

[PJS-7-45]

WARZYN

LOG OF TEST BORING

Project: Beloit Corporation RI/FS

Location: Rockton, Illinois

Boring No. W08R
Surface Elevation 771.9
Job No. 1526892
Sheet 1 of 2

ONE SCIENCE COURT, P.O. BOX 5385, MADISON, WI 53705 (608) 231-4747

SAMPLE						VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
No.	Type	Rec (in.)	Moist	N	Depth		PID	Qu	LL	PL	P200
						Earth Drilled to 52.5 ft. See Boring Log W11R for Soil Description.					
					5						
					10						
					15						
					20						
					25						
					30						
					35						
					40						

WATER LEVEL OBSERVATIONS

While Drilling ▽ 43.6 ft. Upon Completion of Drilling _____ ft.
Time After Drilling _____
Depth to Water _____ ▼
Depth to Cave in _____

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

GENERAL NOTES

Start 8/17/92 End 8/17/92
Driller Layne NW Chief MB Rig TH-60
Logger RJR Editor RJR/JEM
Drill Method Dual Tube

LOG OF TEST BORING

WARZYN

Project: Beloit Corporation RI/FS

Location: Rockton, Illinois

Boring No. W08R
Surface Elevation 771.9
Job No. 1526892
Sheet 2 of 2

ONE SCIENCE COURT P.O. BOX 5385, MADISON, WI 53705 (608) 231-4747

SAMPLE					VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
No.	Type	Rec (in.)	Moist	N	Depth	PID	Qu	LL	PL	P200
					45					
					50					
					End of Boring at 52.0 ft Overshot Drilled to 52.5 ft for Well Installation					
					55					
					60					
					65					
					70					
					75					
					80					

WARZYN ENGINEERING INC

LOG OF TEST BORING

Project: Beloit Corporation

Location: Rockton, Illinois

Boring No. W-9 (W-8)

Surface Elevation 752.7

Job No. C 11440/800145

Sheet 1 of 1

1409 EMIL STREET • P.O. BOX 9638, MADISON, WIS. 53715 • TEL. (608) 257-4848

SAMPLE						VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
Recovery			Moisture								
No.	Type	↓	↓	N	Depth		qu	W	LL	PL	D
					5	For complete description of subsoil conditions see Boring Log W-10					
					10						
					15						
					20						
					25						
					30						
					35	End Boring at 34.5' Install well at 34.5'					
					40						

WATER LEVEL OBSERVATIONS

While Drilling

Upon Completion of Drilling

Time After Drilling

Depth to Water

Depth to Cave In

GENERAL NOTES

Start 4/19/84 Complete 4/19/84

Crew Chief SJW Rig 9100

Drilling Method DC(4") 0-29';
WB w/CW 0-34.5'
ED 0-34.5'

WELL DETAIL INFORMATION SHEET

JOB NO. C 11440/800145

BORING NO. W-9 (W-8)

DATE 4/19/84

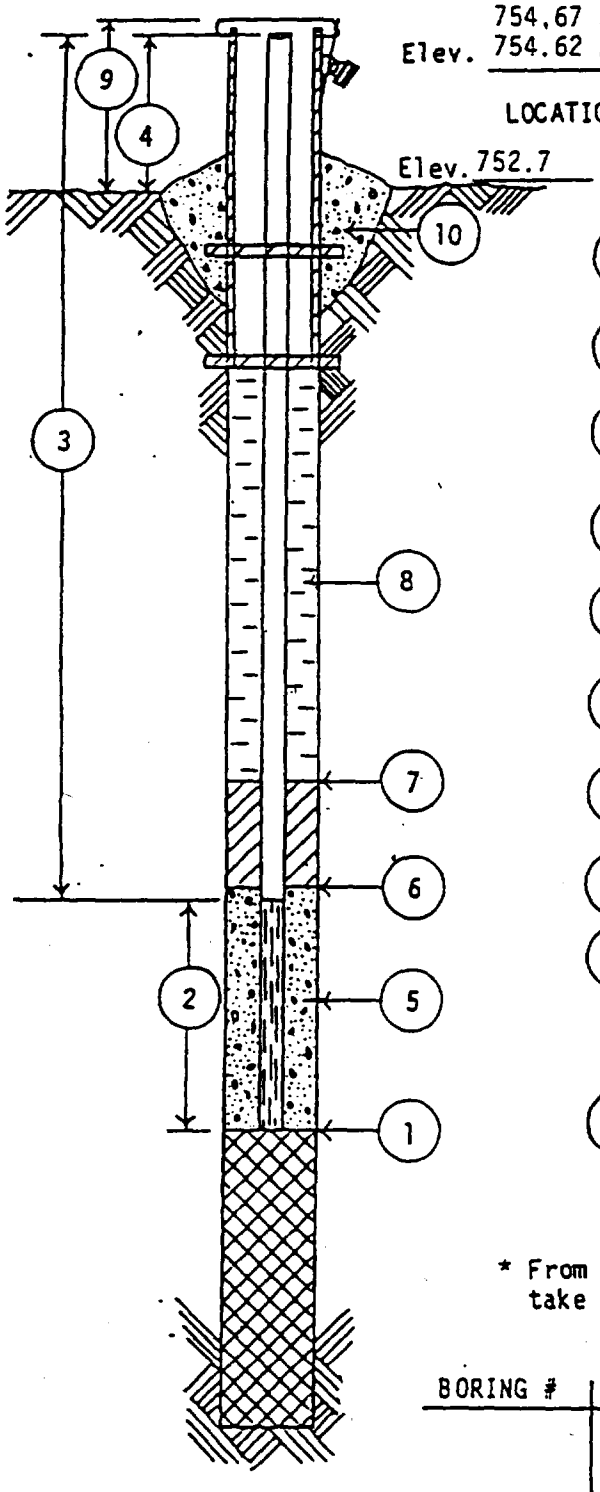
Elev. 754.67 Steel / 754.62 PVC

CHIEF SJW

LOCATION Beloit Corporation; Blackhawk Facility

All depth measurements of well detail assumed to be from ground surface unless otherwise indicated.

Elev. 752.7



1. DEPTH TO BOTTOM OF BOREHOLE 34.5 FEET
2. LENGTH OF WELL POINT, WELL SCREEN, OR SLOTTED PIPE 10 FEET
3. TOTAL LENGTH OF SOLID PIPE 25.4 Flush Joint FEET @ 2 IN. DIAMETER
4. HEIGHT OF WELL CASING ABOVE GROUND 1.9 FEET
5. TYPE OF FILTER MATERIAL AROUND WELL POINT OR SLOTTED PIPE Sand
6. DEPTH OF LOWER OR BOTTOM SEAL 4 FEET
7. DEPTH OF UPPER OR TOP SEAL 0 FEET
8. TYPE OF BACKFILL Sand
9. PROTECTIVE CASING YES NO
   HEIGHT ABOVE GROUND 2'
   LOCKING CAP YES NO
10. CONCRETE CAP YES NO

WATER LEVEL CHECKS

* From top of casing, if protective casing higher take measurement from top of protective casing.

BORING #	DATE	TIME	DEPTH TO WATER	REMARKS

WARZYN ENGINEERING INC.

[PJS-7-45]

WARZYN ENGINEERING INC

LOG OF TEST BORING

Project: Beloit Corporation

Location: Rockton, Illinois

Boring No.: W-10 (P-8A)

Surface Elevation: 752.6

Job No.: C 11440/800145

Sheet: 1 of 2

1409 EMIL STREET • P.O. BOX 9538, MADISON, WIS. 53715 • TEL. (608) 257-4848

SAMPLE No.	Type	Recovery	Moisture	N	Depth	VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES qu	W	LL	PL	D
						Dark Brown Silty SAND (SM)					
1	SS	X	M	2	5	Brown Fine to Medium SAND, Some Silt (SM)					
2	SS	X	M	16	10	Light Brown Silty Very Fine SAND (SM)					
3	SS	X	M	100	15	Brown Silty Fine to Coarse GRAVEL and SAND (GM)					
4	SS	X	M	61	20						
5	SS	X		47	25	Light Brown Silty Very Fine to Fine SAND, Trace Gravel (SM)					
6	SS	X	M	90	30						
7	SS	X	M	43	35						
8	SS	X	M	100	40						
9	SS	X	M	58	45						

(Continued)

WARZYN ENGINEERING INC

LOG OF TEST BORING

Project: Beloit Corporation

Location: Rockton, Illinois

Boring No.: W-10 (P-8A)

Surface Elevation: 752.6

Job No.: C11440/800145

Sheet: 2 of 2

1409 EMIL STREET • P.O. BOX 9538, MADISON, WIS. 53715 • TEL. (608) 257-4848

SAMPLE No.	Type	Recovery ↓	Moisture ↓	N	Depth	VISUAL CLASSIFICATION and Remarks	q_u	W	LL	PL	D
						Light Brown Silty Very Fine to Fine SAND, Trace Gravel (SM)					
10	SS	X	M	88	50						
						Brown Fine to Medium SAND, Trace to Little Silt, Trace Gravel (SM-SP)					
11	SS	X	W	100	55						
					60	End Boring at 60'					
					65						
					70						
					75						
					80						
					85						

WATER LEVEL OBSERVATIONS

While Drilling

Upon Completion of Drilling

Time After Drilling

Depth to Water

Depth to Cave In

GENERAL NOTES

Start 4/18/84 Complete 4/18/84

Crew Chief SW/MG Rig 9100

Drilling Method DC (0-29')

WB w/CW 0-60'

SPT 0-55'

WELL DETAIL INFORMATION SHEET

JOB NO. C11440/800145

BORING NO. W-10 (P-8A)

DATE 4/19/84

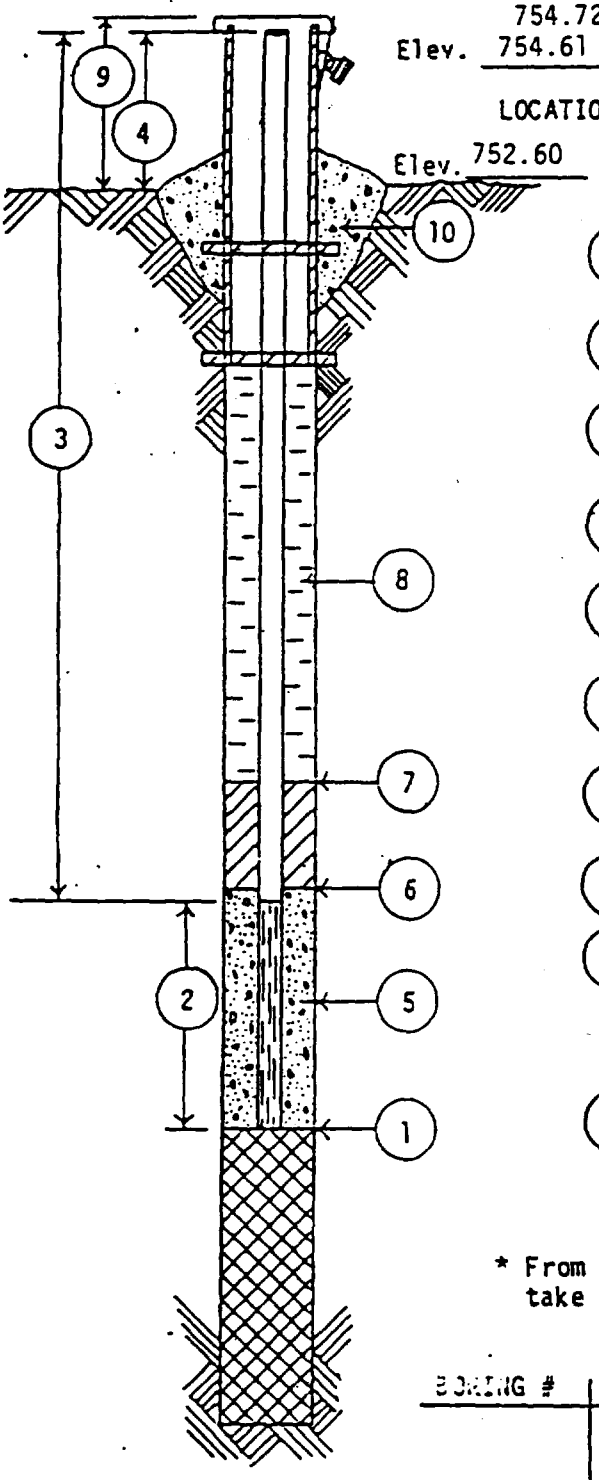
Elev. 754.72 Steel / 754.61 PVC

CHIEF SJW

LOCATION Beloit Corporation: Blackhawk Facility

Elev. 752.60

All depth measurements of well detail assumed to be from ground surface unless otherwise indicated.



1. DEPTH TO BOTTOM OF BOREHOLE 57.7 FEET
2. LENGTH OF WELL POINT, WELL SCREEN, OR SLOTTED PIPE 5 FEET
3. TOTAL LENGTH OF SOLID PIPE 54.7 Flush Joint FEET @ 2 IN. DIAMETER
4. HEIGHT OF WELL CASING ABOVE GROUND 2 FEET
5. TYPE OF FILTER MATERIAL AROUND WELL POINT OR SLOTTED PIPE Sand
6. DEPTH OF LOWER OR BOTTOM SEAL 51 FEET
7. DEPTH OF UPPER OR TOP SEAL 48 FEET
8. TYPE OF BACKFILL Sand
9. PROTECTIVE CASING YES NO
   HEIGHT ABOVE GROUND 2'
   LOCKING CAP YES NO
10. CONCRETE CAP YES NO

WATER LEVEL CHECKS

* From top of casing, if protective casing higher take measurement from top of protective casing.

BORING #	DATE	TIME	DEPTH TO WATER	REMARKS

WARZYN ENGINEERING INC

[PJS-7-45]

WARZYN ENGINEERING INC

LOG OF TEST BORING

Project: Beloit Corporation

Location: Rockton, Illinois

Boring No. W-11(P-6A)

Surface Elevation 771.9

Job No. C 11440/800145

Sheet 1 of 2

1409 EMIL STREET • P.O. BOX 9538, MADISON, WIS. 53715 • TEL. (608) 257-4848

SAMPLE No.	Type	Recovery	Moisture	N	Depth	VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES qu	W	LL	PL	D
1	SS	X	M	7	5	Brown Silty Fine to Medium SAND (SM)					
2	SS	X	M	16	10	Brown Fine to Coarse SAND, Little Silt, Trace to Little Gravel (SM)					
3	SS	X	M	60	15	Some Gravel at 15'					
4	SS	X	M	29	20						
5	SS	NR		37	25	Brown Fine to Coarse Silty GRAVEL and SAND (GM)					
6	SS	X	W	60	30						
7	SS	NR	W	37	35						
8	SS	X	W	60	40	Brown Fine to Medium SAND, Little to Some Silt, Trace Gravel (SM)					
9	SS	X	W	100	45						

(Continued)

WARZYN ENGINEERING INC

LOG OF TEST BORING

Project: Beloit Corporation

Location: Rockton, Illinois

Boring No.: W-11 (P-6A)

Surface Elevation:

Job No.: C 11440/800145

Sheet 2 of 2

1409 EMIL STREET • P.O. BOX 9538, MADISON, WIS. 53715 • TEL. (608) 257-4848

SAMPLE No.	Type	Recovery ↓	Moisture ↓	N	Depth	VISUAL CLASSIFICATION and Remarks	Qu	W	LL	PL	D
						*					
						Brown Silty Very Fine to Medium SAND, Trace Gravel (SM)					
10	SS	X	M	100	50						
11	SS	X	M	100	55						
12	SS	X	M	100	60						
						Install Piezometer at 62'					
						End Boring at 62'					
					65						
						*Brown Fine to Medium SAND, Little to Some Silt, Trace Gravel (SM)					
					70						
					75						
					80						
					85						

WATER LEVEL OBSERVATIONS

While Drilling

Upon Completion of Drilling

Time After Drilling

Depth to Water

Depth to Cave In

GENERAL NOTES

Start 4/10/84 Complete 4/10/84

Crew Chief SW/MG Rig 9100

Drilling Method DC(4") 0-49'

WB w/CW 0-62'

SPT 0-62'

WELL DETAIL INFORMATION SHEET

JOB NO. C 11440/800145

BORING NO. W-11 (P-6A)

DATE 4/17/84

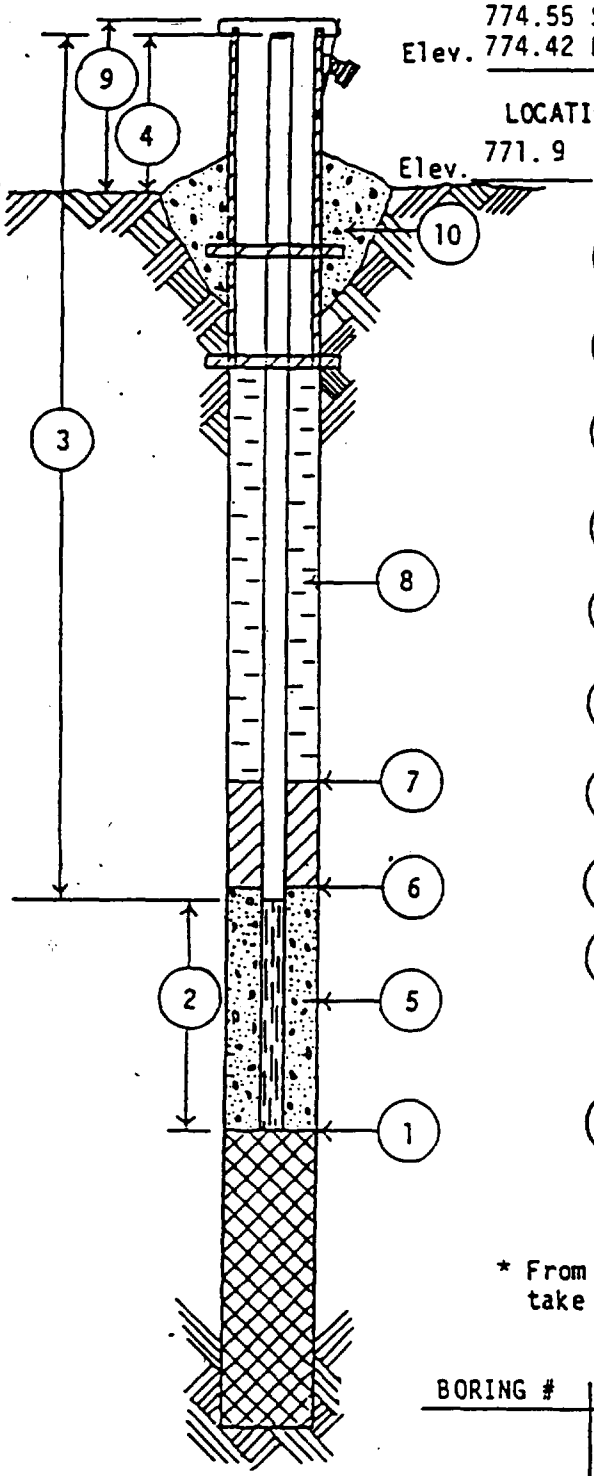
CHIEF SJW

Elev. 774.55 Steel / 774.42 PVC

LOCATION Beloit Corporation; Blackhawk Facility

Elev. 771.9

All depth measurements of well detail assumed to be from ground surface unless otherwise indicated.



1. DEPTH TO BOTTOM OF BOREHOLE 62 FEET
2. LENGTH OF WELL POINT, WELL SCREEN, OR SLOTTED PIPE 5 FEET
3. TOTAL LENGTH OF SOLID PIPE 59.6 Flush Joint FEET @ 2 IN. DIAMETER
4. HEIGHT OF WELL CASING ABOVE GROUND 2.6 FEET
5. TYPE OF FILTER MATERIAL AROUND WELL POINT OR SLOTTED PIPE Sand
6. DEPTH OF LOWER OR BOTTOM SEAL 55 FEET
7. DEPTH OF UPPER OR TOP SEAL 50 FEET
8. TYPE OF BACKFILL Sand
9. PROTECTIVE CASING YES NO
   HEIGHT ABOVE GROUND 2.4'
   LOCKING CAP YES NO
10. CONCRETE CAP YES NO

WATER LEVEL CHECKS

* From top of casing, if protective casing higher take measurement from top of protective casing.

BORING #	DATE	TIME	DEPTH TO WATER	REMARKS

WARZYN ENGINEERING INC.

[PJS-7-45]

WARZYN

LOG OF TEST BORING

Project: Beloit Corporation RI/FS

Location: Rockton, Illinois

Boring No. W11R
Surface Elevation 771.9
Job No. 1526892
Sheet 1 of 2

ONE SCIENCE COURT, P.O. BOX 5385, MADISON, WI 53705 (608) 231-4747

SAMPLE

No.	Type	Rec (in.)	Moist	N	Depth
1			M	7	5
2			M	16	10
3			M	60	15
4			M	29	20
5		NR		37	25
6			W	60	30
7			W	37	35
8			W	60	40

VISUAL CLASSIFICATION and Remarks

Dark Brown Sandy SILT (TOPSOIL)

Medium-Coarse GRAVEL, Little to Some Sand (GM)

Brown Fine SAND, Trace to Little Silt (SM), Moist

Medium to Coarse GRAVEL, Trace Sand (GP)

SOIL PROPERTIES

PID	Qu	LL	PL	P200

WATER LEVEL OBSERVATIONS

While Drilling ▽ 43.6 ft. Upon Completion of Drilling _____ ft.
Time After Drilling _____ _____ _____ _____
Depth to Water _____ _____ _____ _____ ▼
Depth to Cave in _____ _____ _____ _____

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

GENERAL NOTES

Start 8/17/92 End 8/17/92
Driller Layne NW Chief Stewart Rig TH-60
Logger RJR Editor RJR/JEM
Drill Method Dual Tube

LOG OF TEST BORING

WARZYN

Project: Beloit Corporation RI/FS

Location: Rockton, Illinois

Boring No. W11R
Surface Elevation 771.9
Job No. 1526892
Sheet 2 of 2

ONE SCIENCE COURT P.O. BOX 5385, MADISON, WI 53705 (608) 231-4747

SAMPLE					VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
No.	Type	Rec (in.)	Moist	N	Depth	PID	Qu	LL	PL	P200
9			W	100						
					45 Medium to Coarse SAND, Some Gravel, Little Silt and Clay (SP-SM)					
10			W	100						
					50					
11			W	100						
					55					
12			W							5.1
					60 End of Boring at 60.0 ft Overshot Drilled to 61.0 ft for Well Installation					
					65					
					70					
					75					
					80					

WARZYN

LOG OF TEST BORING

Project Beloit Corp. VOC Investigation

Location Rockton, Illinois

Boring No. W-12

Surface Elevation 754.8

Job No. 12749.02

Sheet 1 of 1

WARZYN ENGINEERING INC. • ONE SCIENCE COURT • UNIVERSITY RESEARCH PARK • P.O. BOX 5385 • MADISON, WISCONSIN 53705

SAMPLE No.	Type	Recovery ↓	Moisture ↓	N	Depth	VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES HNu	W	LL	PL	D
						Black Organic CLAY, Fine Sand (Topsoil)					
1	SS	12"	M	13			0				
2	SS	6"	M	19	5	Medium Dense to Dense, Yellow Brown Fine to Coarse Sandy GRAVEL, Little Coarse Sand (GP)	0				
3	SS	8"	M	41							
4	SS	6"	M	60/8"	10	Grades to Very Dense near 10'	0				
5	SS	10"	M	60/6"	15		0				
6	SS	9"	M	60/6"	20		0				
7	SS	14"	M	27	25	Medium Dense Brown Fine to Medium SAND, Trace Silt (SP) Grades to Very Dense with Little Silt and Trace Fine Gravel near 30'	0				
8	SS	10"	W	50/11"	30		0				
					35	End Boring at 32'					
					40						

WATER LEVEL OBSERVATIONS

While Drilling

Upon Completion of Drilling

Time After Drilling

Depth to Water

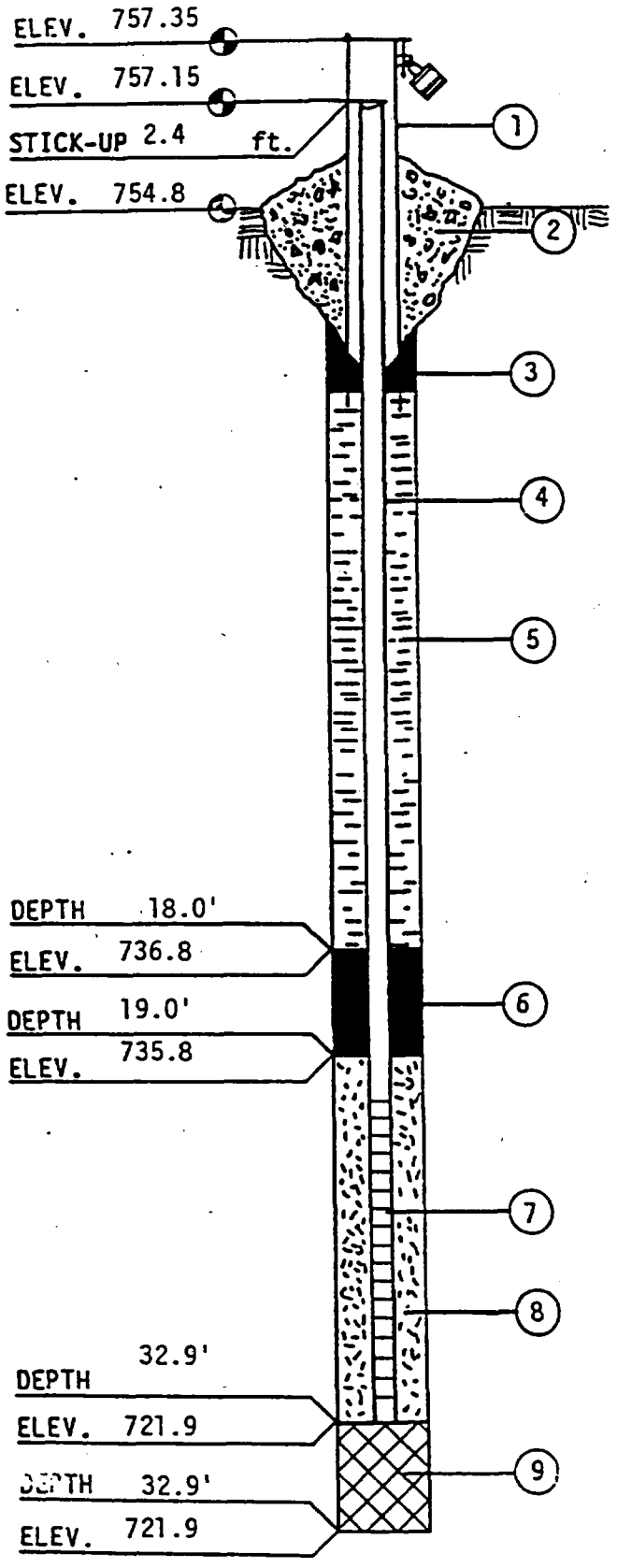
Depth to Cave In

GENERAL NOTES

Start 6/4/87 Complete 6/4/87

Crew Chief CWR Rig CME 550

Drilling Method 4¼" HSA 0-32'



WARZYN ENGINEERING INC

MONITORING WELL CONSTRUCTION INFORMATION

JOB NO. 12749.02

BORING/WELL NO. W-12

DATE 6/4/87

CHIEF/UNIT CB/550

1. PROTECTIVE CASING (YES) NO

   LOCKING (YES) NO

2. CONCRETE SEAL (YES) NO

3. TYPE OF SURFACE SEAL (IF INSTALLED)
   Bentonite Cement

4. SOLID PIPE TYPE 304 Stainless Steel

   SOLID PIPE LENGTH 25.3 ft.

   JOINT TYPE SLIP/GLUED (THREADED)

5. TYPE OF BACKFILL Bentonite Slurry

   HOW INSTALLED - (TREMIE) FROM SURFACE

6. TYPE OF LOWER SEAL (IF INSTALLED)
   Bentonite Slurry/Pellet Seal

7. SCREEN TYPE 304 Stainless Steel

   SCREEN LENGTH 10.0'

   SLOT-SIZE 0.010" LENGTH 9.3 ft.

   SCREEN DIAMETER 2.0 in.

8. TYPE OF BACKFILL AROUND SCREEN
   Natural Sand & #30 Flint Sand

9. TYPE OF BACKFILL None

10. DRILLING METHOD 4¼" HSA

11. ADDITIVES USED (IF ANY)
    None

WATER LEVEL _____ DATE _____

*ALL DEPTHS MEASURED FROM GROUND SURFACE.

WARZYN

LOG OF TEST BORING

Project: Beloit Corp. VOC Investigation

Location: Rockton, Illinois

Boring No. W-13
Surface Elevation 753.1
Job No. 12749.02
Sheet 1 of 1

WARZYN ENGINEERING INC. • ONE SCIENCE COURT • UNIVERSITY RESEARCH PARK • P.O. BOX 5385 • MADISON, WISCONSIN 53705

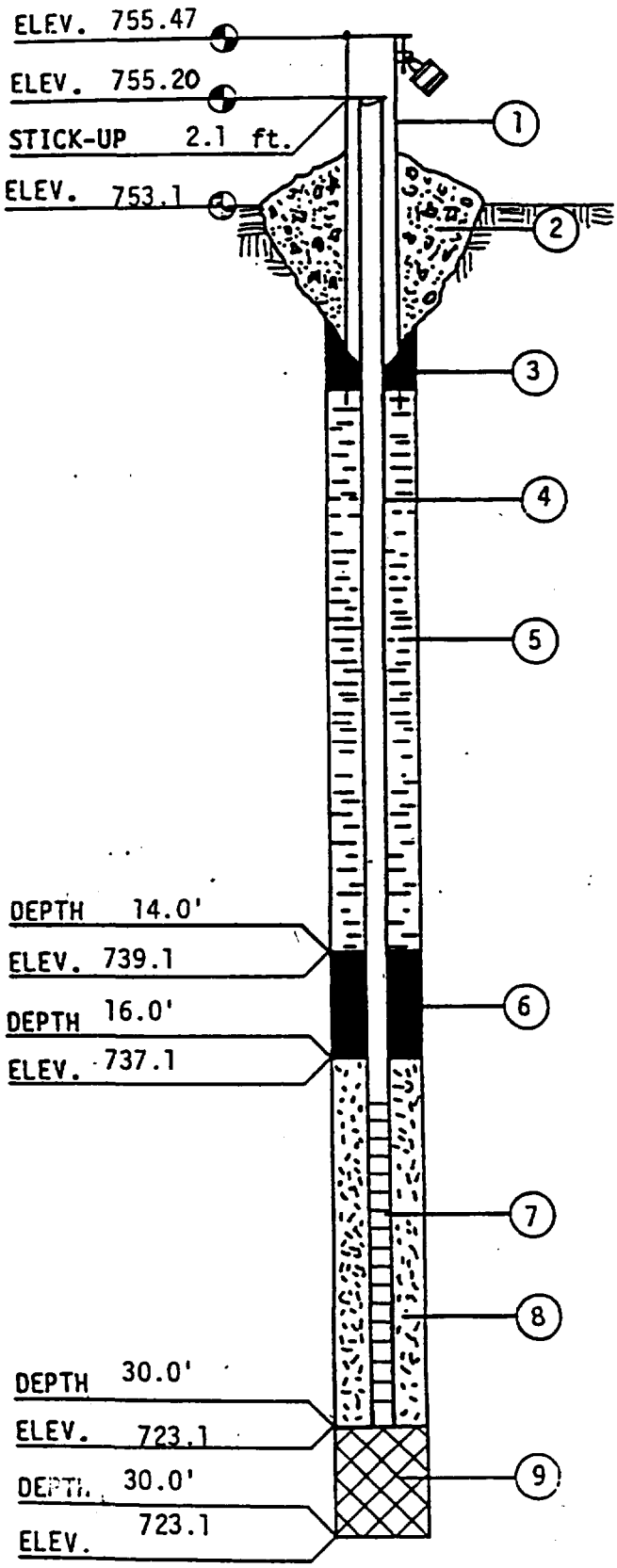
SAMPLE						VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES			
No.	Type	Recovery	Moisture	N	Depth			W	LL	PL	D
					5	Earth drilled from 0 to 30'. For soil description and classification see Field Boring Log W-14.					
					10						
					15						
					20						
					25						
					30	End Boring at 30'					
					35						
					40						

WATER LEVEL OBSERVATIONS

While Drilling
Upon Completion of Drilling
Time After Drilling
Depth to Water
Depth to Cave In

GENERAL NOTES

Start 6/1/87 Complete 6/1/87
Crew Chief MG Rig CME 550
Drilling Method 4¼" HSA 0-30'



WARZYN ENGINEERING INC

MONITORING WELL CONSTRUCTION INFORMATION

JOB NO. 12749.02

BORING/WELL NO. W-13

DATE 6/1/87

CHIEF/UNIT MG/9910

1. PROTECTIVE CASING (YES) NO

   LOCKING (YES) NO

2. CONCRETE SEAL YES (NO)

3. TYPE OF SURFACE SEAL (IF INSTALLED)
   Granular Bentonite

4. SOLID PIPE TYPE 304 Stainless Steel

   SOLID PIPE LENGTH 21.3 ft.

   JOINT TYPE SLIP/GLUED (THREADED)

5. TYPE OF BACKFILL Bentonite-Cement Grout

   HOW INSTALLED - (TREMIE)
   - FROM SURFACE

6. TYPE OF LOWER SEAL (IF INSTALLED)
   Bentonite Pellets & Granular Bentonite

7. SCREEN TYPE 304 Stainless Steel

   SCREEN LENGTH 10.8'

   SLOT-SIZE 0.010" LENGTH 10.0 ft.

   SCREEN DIAMETER 2.0 in.

8. TYPE OF BACKFILL AROUND SCREEN
   #30 Flint Sand

9. TYPE OF BACKFILL None

10. DRILLING METHOD 8¼" HSA

11. ADDITIVES USED (IF ANY)
    None

WATER LEVEL 26.0' DATE 6/1/87

*ALL DEPTHS MEASURED FROM GROUND SURFACE.

WARZYN

LOG OF TEST BORING

Project: Beloit Corp. VOC Investigation

Location: Rockton, Illinois

Boring No. W-14
Surface Elevation 752.6
Job No. 12749.02
Sheet 1 of 2

WARZYN ENGINEERING INC. • ONE SCIENCE COURT • UNIVERSITY RESEARCH PARK • P.O. BOX 5385 • MADISON, WISCONSIN 53705

SAMPLE No.	Type	Recovery	Moisture	N	Depth	VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES qu	HNu	LL	PL	D
						*					
1	SS	15"	M	16		Dark Brown to Black Organic Silty Clay (Topsoil)		0			
2	SS	18"	M	17	5		(1.0)	0			
						**					
3	SS	14"	M	44		Very Dense, Yellow Brown Fine Sandy GRAVEL, Little Coarse Sand with Scattered Lenses of Silt (GP)		0			
4	SS	5"	M	60/6"	10			0			
5	SS	6"	M	60/6"	15	Grades with Little Coarse Gravel near 15'		0			
6	SS	13"	M	38	20			0			
7	SS	15"	W	29	25	Dense, Yellow Brown Fine Silty SAND, Trace Fine Gravel (SM) *FILL: Brown Fine to Medium Sand and Gravel, Trace Silt		0.2			
8	SS	7"	W	60/9"	30	**Dark Brown Lean CLAY, Trace Fine Gravel, Little Sand (CL)		0.2			
9	SS	5"	W	60/5"	35			0.2			
						***					
10	SS	11"	W	35/6"	40	Dense to Very Dense, Yellow Brown Fine Silty SAND, Trace Clay and Fine Gravel (SM) ***Very Dense, Yellow Brown Medium to Coarse SAND, Little Gravel and Trace Silt (SP)		0.1			
11	SS	1"	W	60/3"	45	Grades to Little Fine and Coarse Gravel near 45'		0			

( ) Pocket Penetrometer Reading, TSF

(Continued)

WARZYN

LOG OF TEST BORING

Project Beloit Corp. VOC Investigation

Location Rockton, Illinois

Boring No. W-14
Surface Elevation 752.6
Job No. 12749.02
Sheet 2 of 2

WARZYN ENGINEERING INC. • ONE SCIENCE COURT • UNIVERSITY RESEARCH PARK • P.O. BOX 5385 • MADISON, WISCONSIN 53705

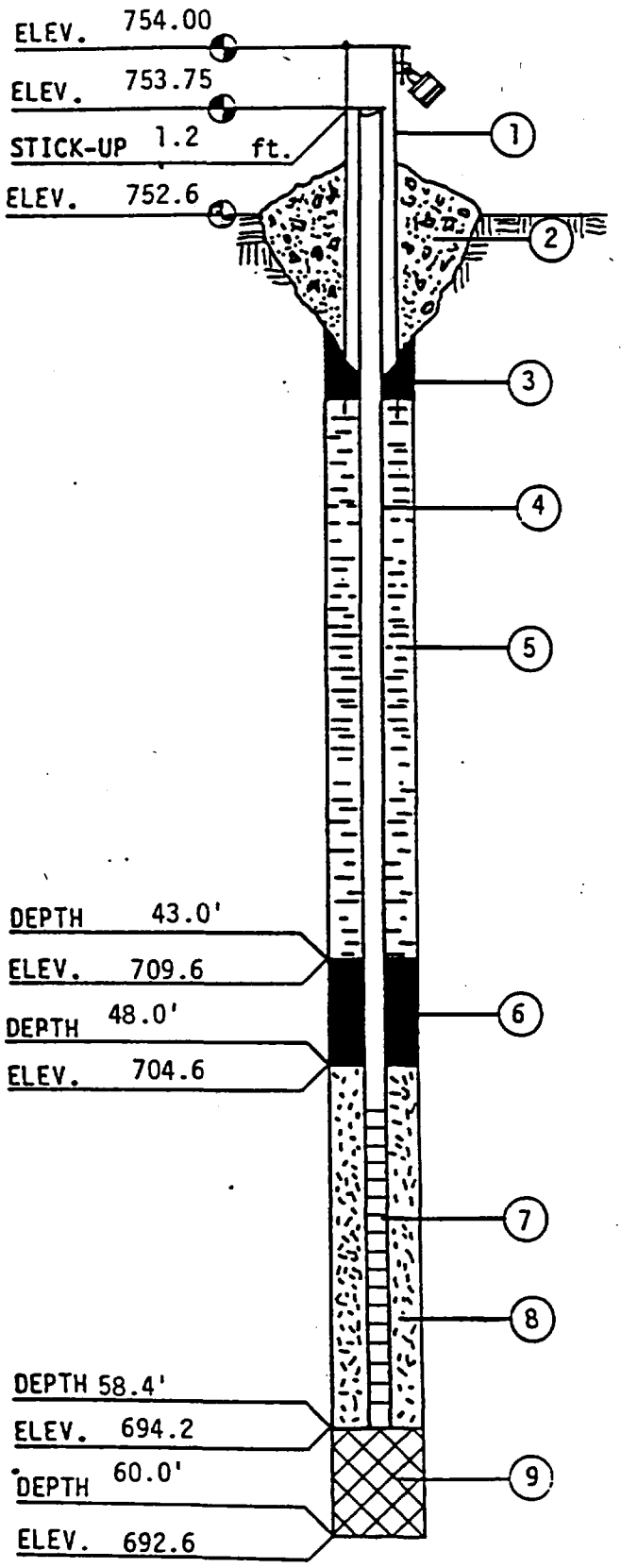
SAMPLE						VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
No.	Type	Recovery ↓	Moisture ↓	N	Depth		HNu	W	LL	PL	D
						Very Dense, Yellow Brown, Fine Silty SAND. Trace Clay and Fine Gravel (SM) Grades to Gray near 50' (Based on Driller's Description)					
12	SS	.5"	W	60/3"	50		0				
13	SS	0"	-	60/9"	55		0				
14	SS	0"	-	60/6"	60		0				
						End Boring at 60.0'					
					65						
					70						
					75						
					80						
					85						

WATER LEVEL OBSERVATIONS

While Drilling 29'
Upon Completion of Drilling
Time After Drilling
Depth to Water
Depth to Cave In

GENERAL NOTES

Start 6/2/87 Complete 6/2/87
Crew Chief MAG Rig CME 550
Drilling Method
4¼" HSA 0-59.5'



WARZYN ENGINEERING INC

MONITORING WELL CONSTRUCTION INFORMATION

JOB NO. 12749.02

BORING/WELL NO. W-14

DATE 6/5/87

CHIEF/UNIT CB/550

1. PROTECTIVE CASING (YES) NO

   LOCKING (YES) NO

2. CONCRETE SEAL (YES) NO

3. TYPE OF SURFACE SEAL (IF INSTALLED)
   Bentonite/Cement Slurry

4. SOLID PIPE TYPE 304 Stainless Steel

   SOLID PIPE LENGTH 54.6 ft.

   JOINT TYPE SLIP/GLUED (THREADED)

5. TYPE OF BACKFILL Thick Bentonite Slurry

   HOW INSTALLED (TREMIE) FROM SURFACE

6. TYPE OF LOWER SEAL (IF INSTALLED)
   Bentonite Pellets & Cave-in Sand

7. SCREEN TYPE 304 Stainless

   SCREEN LENGTH 5.0'

   SLOT-SIZE 0.010" LENGTH 4.6 ft.

   SCREEN DIAMETER 2.0 in.

8. TYPE OF BACKFILL AROUND SCREEN
   #30 Flint Sand & Natural Sand & Gravel

9. TYPE OF BACKFILL Natural Sand & Gravel

10. DRILLING METHOD 4¼" HSA

11. ADDITIVES USED (IF ANY)
    None

WATER LEVEL 25.8' DATE 6/5/87

*ALL DEPTHS MEASURED FROM GROUND SURFACE.

WARZYN

LOG OF TEST BORING

Project: Beloit Corp. VOC Investigation

Location: Rockton, Illinois

Boring No. W-15
Surface Elevation 751.0
Job No. 12749.02
Sheet 1 of 1

WARZYN ENGINEERING INC. • ONE SCIENCE COURT • UNIVERSITY RESEARCH PARK • P.O. BOX 5485 • MADISON, WISCONSIN 53705

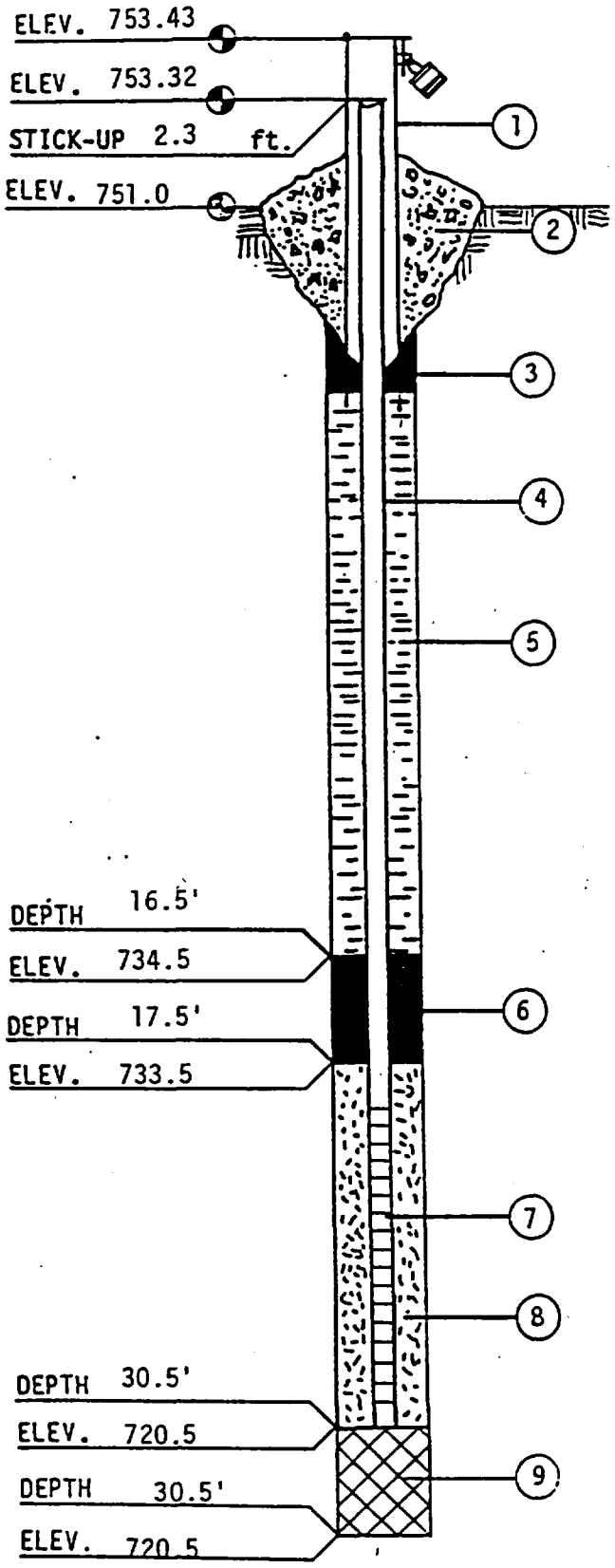
SAMPLE No.	Type	Recovery	Moisture	N	Depth	VISUAL CLASSIFICATION and Remarks	qp	HNu	LL	PL	D
1	SS	18"	M	18		Very Stiff, Dark Brown to Black Fine Sandy Lean CLAY, Trace Fine and Coarse Gravel (CL)		0			
2	SS	0"	M	24	5			0			
3	SS	11"	M	30		Dense, Yellow Brown Fine SAND, Trace Fine Gravel & Silt (SP)		0			
4	SS	10"	M	26	10	Stiff to Very Stiff. Mottled Yellow Brown to Gray Lean CLAY, Trace Fine Sand (CL)	(1.5/ 2.5)	0			
5	SS	5"	M	60/7"	15	Very Dense, Yellow Brown Fine to Coarse Sandy GRAVEL, Trace Coarse Sand (GP)		0			
6	SS	8"	M	42	20			0			
7	SS	11"	W	30	25	Dense, Light Gray to Light Yellow Brown Fine Silty SAND, Trace Fine Gravel (SM) Grades to Little Clay and Fine Gravel near 30'		0			
8	SS	12"	M	100/12"	30			0			
						End Boring at 29.6'	( )	Pocket Penetrometer Reading, TSF			
					35						
					40						

WATER LEVEL OBSERVATIONS

While Drilling
Upon Completion of Drilling
Time After Drilling 1/2 hour
Depth to Water 27.0'
Depth to Cave In

GENERAL NOTES

Start 6/9/87 Complete 6/9/87
Crew Chief MG Rig CME 550
Drilling Method 4¼" HSA 0-28.5'



WARZYN ENGINEERING INC

MONITORING WELL CONSTRUCTION INFORMATION

JOB NO. 12749.02

BORING/WELL NO. W-15

DATE 6/9/87

CHIEF/UNIT MG/9910

1. PROTECTIVE CASING (YES) NO

   LOCKING (YES) NO

2. CONCRETE SEAL YES (NO)

3. TYPE OF SURFACE SEAL (IF INSTALLED)
   Granular Bentonite

4. SOLID PIPE TYPE 304 Stainless Steel

   SOLID PIPE LENGTH 22.0' ft.

   JOINT TYPE SLIP/GLUED (THREADED)

5. TYPE OF BACKFILL Bentonite Grout

   HOW INSTALLED - TREMIE (FROM SURFACE)

6. TYPE OF LOWER SEAL (IF INSTALLED)
   Bentonite Pellets

7. SCREEN TYPE 304 Stainless Steel

   SCREEN LENGTH 10.8'

   SLOT-SIZE 0.010" LENGTH 10 ft.

   SCREEN DIAMETER 2.0 in.

8. TYPE OF BACKFILL AROUND SCREEN
   #30 Flint Sand

9. TYPE OF BACKFILL None

10. DRILLING METHOD 4¼" HSA

11. ADDITIVES USED (IF ANY)
    None

WATER LEVEL 27.0' DATE 6/9/87

*ALL DEPTHS MEASURED FROM GROUND SURFACE.

WARZYN

LOG OF TEST BORING

Project: Beloit Corp. VOC Investigation

Location: Rockton, Illinois

Boring No. W-16
Surface Elevation
Job No. 12749.02
Sheet 1 of 1

WARZYN ENGINEERING INC. • ONE SCIENCE COURT • UNIVERSITY RESEARCH PARK • P.O. BOX 5385 • MADISON, WISCONSIN 53705

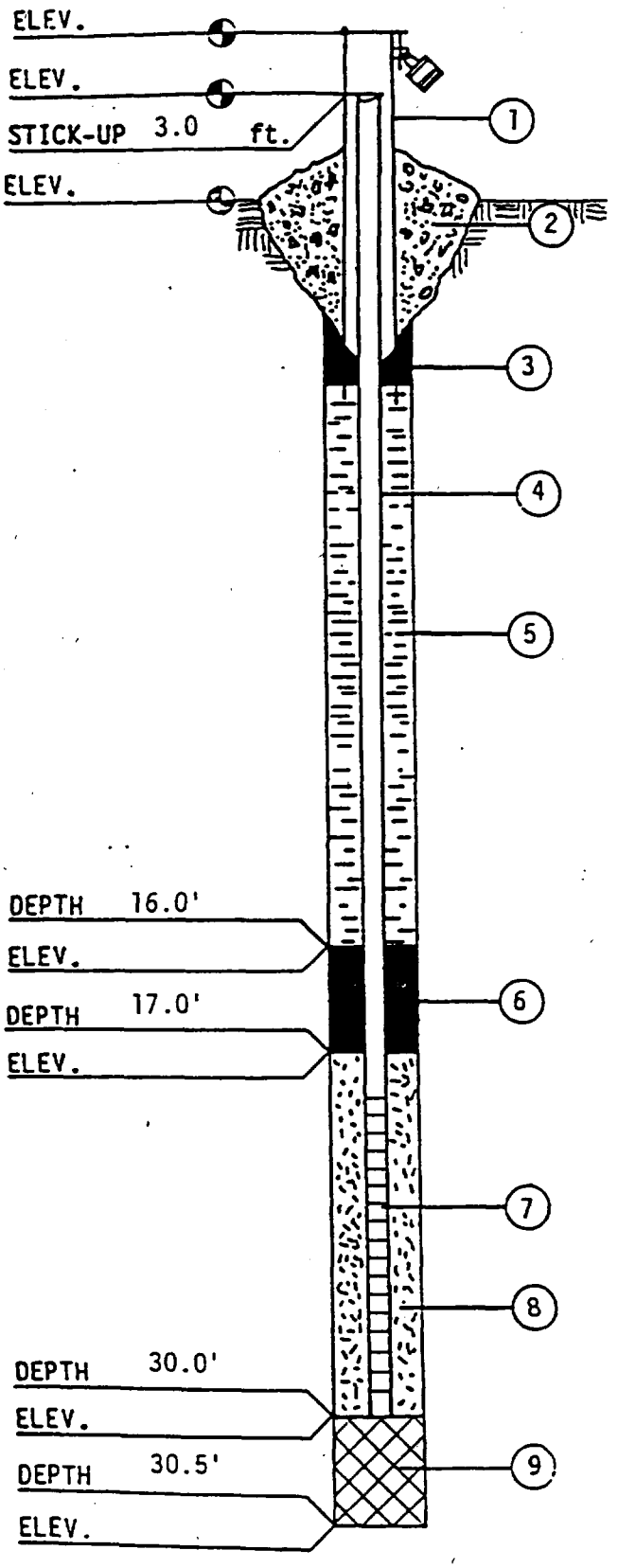
SAMPLE No.	Type	Recovery	Moisture	N	Depth	VISUAL CLASSIFICATION and Remarks	HNu	W	LL	PL	D
						Stiff, Dark Brown Sandy Lean CLAY, Trace Fine Gravel (CL)					
1	SS	14"	M	8			0				
2	SS	4"	M	60/6"	5	Very Dense, Yellow Brown Coarse Sandy GRAVEL, Trace Coarse Sand and Fine Gravel (GP)	0				
3	SS	4"	M	60/7"			0				
4	SS	4"	M	40/6"	10		0				
5	SS	0"	-	60/5"	15	Scattered Layers of Fine to Medium Sand near 15'	0				
6	SS	8"	M	100/12"	20		0				
7	SS	12"	W	53	25		0				
						Dense, Yellow Brown Fine Silty SAND, Trace Fine Gravel (SM)					
8	SS	12"	W	56	30		0				
						End Boring at 29.5'					
					35						
					40						

WATER LEVEL OBSERVATIONS

While Drilling
Upon Completion of Drilling
Time After Drilling
Depth to Water
Depth to Cave In

GENERAL NOTES

Start 6/8/87 Complete 6/8/87
Crew Chief MG Rig CME 550
Drilling Method 4¼" HSA 0-28.5'



WARZYN ENGINEERING INC

MONITORING WELL CONSTRUCTION INFORMATION

JOB NO. 12749.02

BORING/WELL NO. W-16

DATE 6/8/87

CHIEF/UNIT MG/9910

1. PROTECTIVE CASING (YES) NO

   LOCKING (YES) NO

2. CONCRETE SEAL YES (NO)

3. TYPE OF SURFACE SEAL (IF INSTALLED)
   Granular Bentonite

4. SOLID PIPE TYPE 304 Stainless Steel

   SOLID PIPE LENGTH 22.7 ft.

   JOINT TYPE SLIP/GLUED (THREADED)

5. TYPE OF BACKFILL Bentonite Grout

   HOW INSTALLED - ~~TREMIE~~ (FROM SURFACE)

6. TYPE OF LOWER SEAL (IF INSTALLED)
   Bentonite Pellets

7. SCREEN TYPE 304 Stainless Steel

   SCREEN LENGTH 10.8'

   SLOT-SIZE 0.010" LENGTH 10.0 ft.

   SCREEN DIAMETER 2.0 in.

8. TYPE OF BACKFILL AROUND SCREEN
   #30 Flint Sand & Natural Sand

9. TYPE OF BACKFILL Natural Cave-in

10. DRILLING METHOD 4¼" HSA

11. ADDITIVES USED (IF ANY)
    None

WATER LEVEL 29.0' DATE 6/8/87

*ALL DEPTHS MEASURED FROM GROUND SURFACE.

WARZYN

LOG OF TEST BORING

Project: Beloit Corporation RI/FS

Location: Rockton, Illinois

Boring No. W16R
Surface Elevation 758.8
Job No. 1526892
Sheet 1 of 2

ONE SCIENCE COURT, P.O. BOX 5385, MADISON, WI 53705 (608) 231-4747

SAMPLE						VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
No.	Type	Rec (in.)	Moist	N	Depth		PID	Qu	LL	PL	P200
						Earth Drilled to 29.5 ft. See Boring Log W16 for Soil Descriptions 0 to 29.5 ft.					
					5						
					10						
					15						
					20						
					25						
					30	Brown Fine to Coarse SAND, Some Gravel, Trace Silt and Clay (SP)					
					35						
1			W		40						2.9

WATER LEVEL OBSERVATIONS

While Drilling ▽ 30.7 ft. Upon Completion of Drilling _____ ft.
Time After Drilling _____ _____ _____ _____
Depth to Water _____ _____ _____ _____ ▼
Depth to Cave in _____ _____ _____ _____

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

GENERAL NOTES

Start 8/19/92 End 8/19/92
Driller Layne NW Chief Stewart Rig TH-60
Logger RJR Editor RJR/JEM
Drill Method Dual Tube

WARZYN

LOG OF TEST BORING

Project: Beloit Corporation RI/FS

Location: Rockton, Illinois

Boring No. W16R
Surface Elevation 758.8
Job No. 1526892
Sheet 2 of 2

ONE SCIENCE COURT P.O. BOX 5385, MADISON, WI 53705 (608) 231-4747

SAMPLE						VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
No.	TYPE	Rec (in.)	Moist	N	Depth		PID	Qu	LL	PL	P200
						End of Boring at 41.5 ft Installed Well at 41.0 ft					
					45						
					50						
					55						
					60						
					65						
					70						
					75						
					80						

WARZYN

LOG OF TEST BORING

Project: Beloit Corp. VOC Investigation

Location: Rockton, Illinois

Boring No. W-17
Surface Elevation 732.8
Job No. 12749.02
Sheet 1 of 1

WARZYN ENGINEERING INC. • ONE SCIENCE COURT • UNIVERSITY RESEARCH PARK • P.O. BOX 5885 • MADISON, WISCONSIN 53705

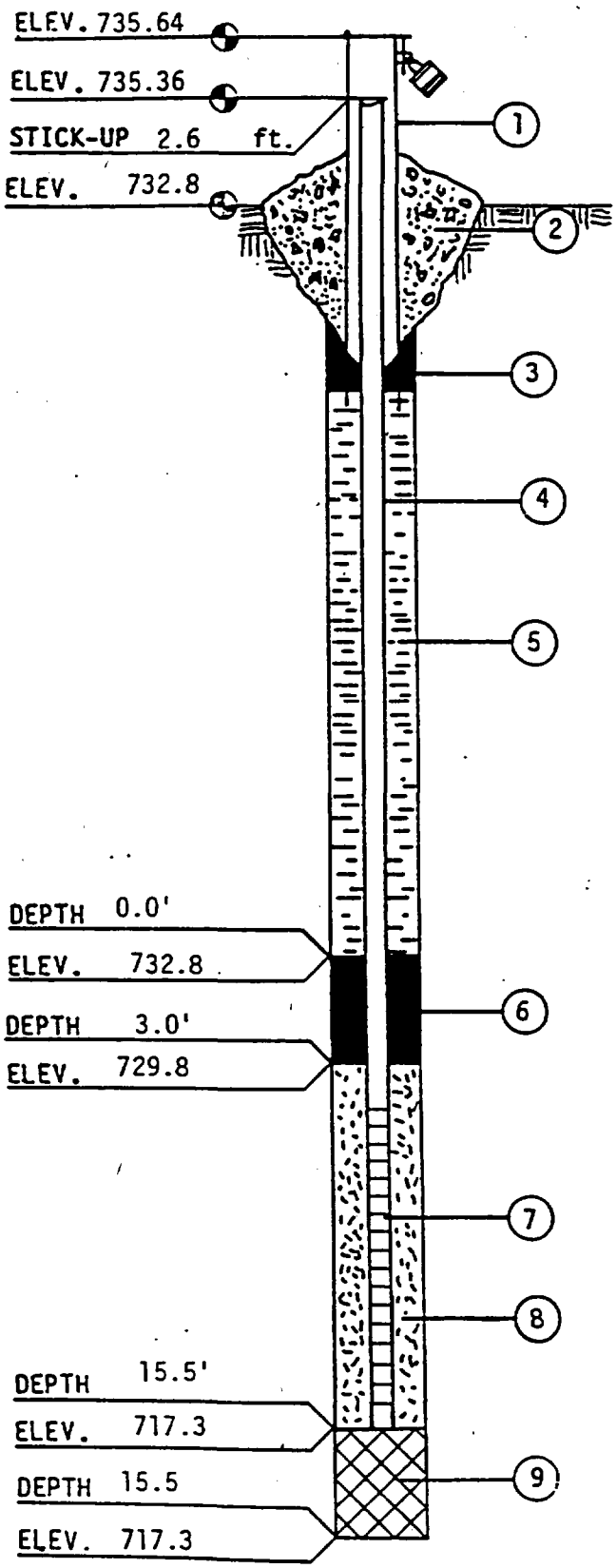
SAMPLE No.	Type	Recovery	Moisture	N	Depth	VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES qu	HNu	LL	PL	D
1	SS	12"	M	8		Stiff, Dark Brown Organic CLAY, Trace Fine Sand & Gravel (OL)	1.5)	0			
2	SS	16"	M	43	5			0			
						*					
3	SS	8"	W	61				0			
4	SS	6"	W	45	10	Very Dense, Yellow Brown Fine to Medium Silty SAND, Trace to Little Gravel (SM)					
5	SS	6"	W	65	15			0			
						End Boring at 15'					
					20						
						*Dense to Very Dense, Yellow Brown Coarse Sandy GRAVEL, Trace to Little Medium to Coarse Sand and Fine Gravel (GP)					
					25		( )	Pocket Penetrometer Reading, TSF			
					30						
					35						
					40						

WATER LEVEL OBSERVATIONS

While Drilling 6.5'
Upon Completion of Drilling
Time After Drilling 1/2 hour
Depth to Water 10'
Depth to Cave In

GENERAL NOTES

Start 6/8/87 Complete 6/8/87
Crew Chief MG Rig CME 550
Drilling Method
4¼" HSA 0-13.5'



WARZYN ENGINEERING INC

MONITORING WELL CONSTRUCTION INFORMATION

JOB NO. 12749.02

BORING/WELL NO. W-17

DATE 6/8/87

CHIEF/UNIT MG/9910

1. PROTECTIVE CASING YES NO
   LOCKING YES NO
2. CONCRETE SEAL YES NO
3. TYPE OF SURFACE SEAL (IF INSTALLED)
   Granular Bentonite
4. SOLID PIPE TYPE 304 Stainless Steel
   SOLID PIPE LENGTH 7.3 ft.
   JOINT TYPE SLIP/GLUED THREADED
5. TYPE OF BACKFILL Bentonite-Granular
   HOW INSTALLED - ~~TREMIE~~ FROM SURFACE
6. TYPE OF LOWER SEAL (IF INSTALLED)
   Bentonite Pellets
7. SCREEN TYPE 304 Stainless Steel
   SCREEN LENGTH 10.8'
   SLOT-SIZE 0.010" LENGTH 10.0 ft.
   SCREEN DIAMETER 2.0 in.
8. TYPE OF BACKFILL AROUND SCREEN
   #30 Flint Sand
9. TYPE OF BACKFILL None
10. DRILLING METHOD 4¼" HSA
11. ADDITIVES USED (IF ANY)
    None

WATER LEVEL 7.0' DATE 6/8/87

*ALL DEPTHS MEASURED FROM GROUND SURFACE.

WARZYN

LOG OF TEST BORING

Project Beloit Corporation

Location

Boring No. W-18
Surface Elevation
Job No. 12749.00
Sheet 1 of 2

ONE SCIENCE COURT • P.O. BOX 5385, MADISON, WIS. 53705 • TEL.(608) 273-0440

SAMPLE No.	Type	Rec (in.)	Moist	N	Depth	VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES qu (qa) (tsf)	HNu	Explosive Gas	Field VOC Water	Remarks
						TOPSOIL (Black Sand Loam)					
1		18	M	0 /18		Brown Fine Sand, Some Silt 1'7" to 2 1/2' Clayey 2 1/2' to 3'0" w/ gravel @ 3'0"		0.0			
2		18	D	25	5	Brown to Tan layers of Fine, Fine to Medium and Fine to Coarse SAND		0.0			
3		8	D	30				0.0			
4		16	D	50	10			0.0			
						Brown Fine to Very Fine, SAND					
5		16	D	32	15	Brown Silty Fine to Medium SAND, w/Gravel (Mostly Fine), Trace Cobbles & Boulders		0.0			
6		16	D	42	20			0.0			
7		18	D	77	25			0.0			
8		18	D	55	30	Seam (1-2 in.) of Fine to Medium Sand @ 29'3" saturated turning Grayish Brown @ 33'0"		0.0			
9		18	M	42	35			0.0			
10		18	W	29	40	OCC layers w/More Silt & Some Clay @ 38'0"		0.0			

WATER LEVEL OBSERVATIONS

While Drilling ▽ _____ Upon Completion of Drilling _____
Time After Drilling _____
Depth to Water _____ ▼
Depth to Cave in _____

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

GENERAL NOTES

Start 1/31/89 End 1/31/89
Driller E&F Chief _____ Rig _____
Logger _____ Editor SW
Drill Method 4 1/4" HSA

WARZYN

LOG OF TEST BORING

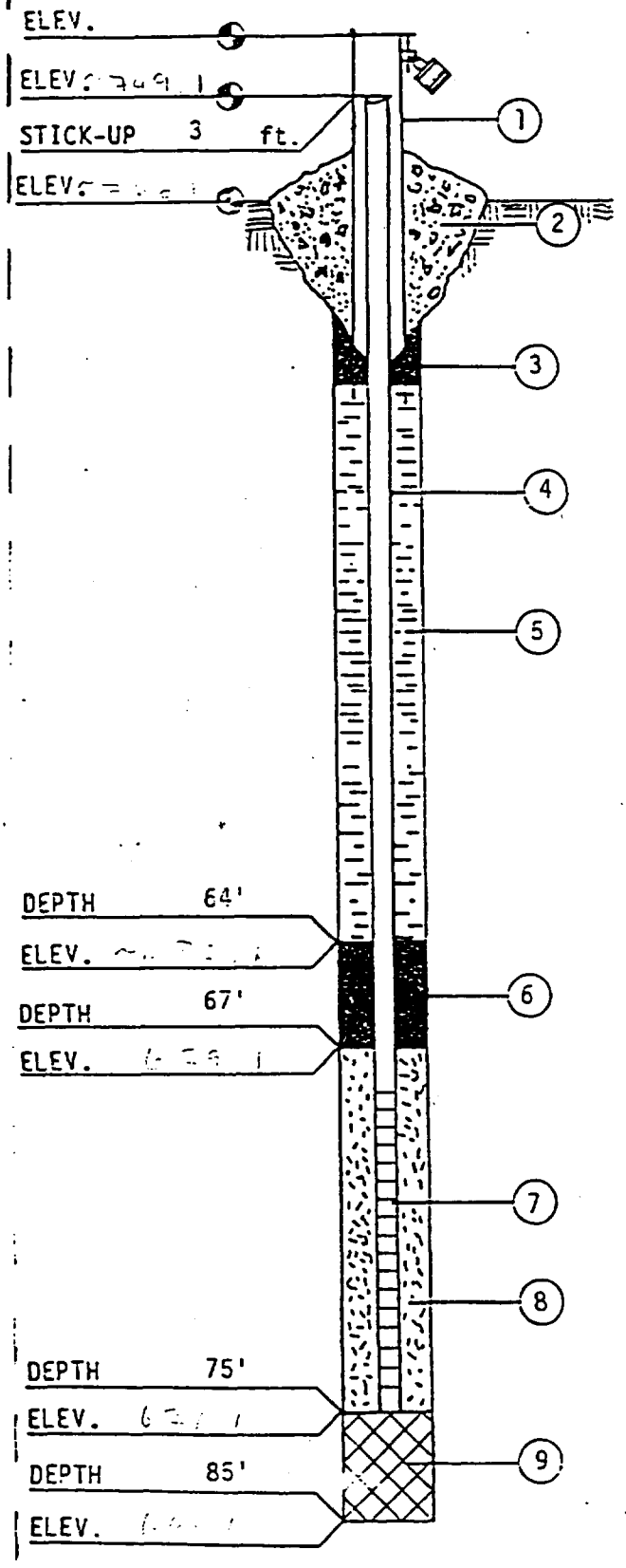
Project: Beloit Corporation

Location

Boring No. W-18
Surface Elevation
Job No. 12749.00
Sheet 2 of 2

ONE SCIENCE COURT • P.O. BOX 5385, MADISON, WIS. 53705 • TEL.(608) 273-0440

SAMPLE No.	Type	Rec (in.)	Moist	N	Depth	VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES qu (qa) (tsf)	Hnu	Explosive Gas	VOC Water	Monoto
11		16	M	45	45			0.0			
12		16	W	47	50			0.0			
13		16	D	55	55	OCC (1-2") Seams of Silty Clay & Fine to Medium Sand @ 52'0" to 58'0" (layers of Fine to Medium Sand increasing w/depth)		0.0			
14		4		61	60	Brown Fine SAND		0.0			
15		11		43	65			0.0			
16		0		28	70			0.0			
17		14		21	75			0.0			
					80	End Boring at 75'					
					85						



WARZYN ENGINEERING INC

MONITORING WELL CONSTRUCTION INFORMATION

JOB NO. 12749.00

BORING/WELL NO. W-18

DATE 2-13-89

CHIEF/UNIT GA/75

1. PROTECTIVE CASING (YES) NO

   LOCKING (YES) NO

2. CONCRETE SEAL (YES) NO

3. TYPE OF SURFACE SEAL (IF INSTALLED)
   Granular Bentonite

4. SOLID PIPE TYPE Stainless Steel

   SOLID PIPE LENGTH 73 ft.

   JOINT TYPE SLIP/GLUED (THREADED)

5. TYPE OF BACKFILL Bentonite Grout

   HOW INSTALLED - (TREMIE) FROM SURFACE

6. TYPE OF LOWER SEAL (IF INSTALLED)
   Fine Silica Sand

7. SCREEN TYPE Stainless Steel

   SCREEN LENGTH 5'

   SLOT-SIZE .010" LENGTH ft.

   SCREEN DIAMETER 2 in.

8. TYPE OF BACKFILL AROUND SCREEN
   #20 Flint Sand

9. TYPE OF BACKFILL #20 Flint Sand

10. DRILLING METHOD Rotary Wash Boring

11. ADDITIVES USED (IF ANY)
    None

WATER LEVEL 26.72 DATE 2-14-89

*ALL DEPTHS MEASURED FROM GROUND SURFACE.

WARZYN

LOG OF TEST BORING

Project: Beloit Corporation RI/FS

Location: Rockton, Illinois

Boring No. W19
Surface Elevation 742.1
Job No. 1526892
Sheet 1 of 1

ONE SCIENCE COURT, P.O. BOX 5385, MADISON, WI 53705 (608) 231-4747

SAMPLE					VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
No.	Type	Rec (in.)	Moist	N	Depth		PID	Qu	LL	PL	P200
					Earth Drilled to 28.0 ft. See Boring Log W19B for Soil Profile and Descriptions.						
					End of Boring at 28.0 ft Install Well at 27.4 ft						

Depth scale: 5, 10, 15, 20, 25, 30, 35, 40

WATER LEVEL OBSERVATIONS

While Drilling ▽ 21.0 ft. Upon Completion of Drilling _____ ft.
Time After Drilling _____ _____ _____ _____
Depth to Water _____ _____ _____ _____ ▼
Depth to Cave in _____ _____ _____ _____

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

GENERAL NOTES

Start 7/31/92 End 7/31/92
Driller Layne NW Chief MB Rig B-57
Logger TJM Editor RJR/JEM
Drill Method 4 1/4" I.D. HSA

WARZYN

LOG OF TEST BORING

Project: Beloit Corporation RI/FS

Location: Rockton, Illinois

Boring No. W19B
Surface Elevation 742.1
Job No. 1526892
Sheet 1 of 2

ONE SCIENCE COURT, P.O. BOX 5385, MADISON, WI 53705 (608) 231-4747

SAMPLE / VISUAL CLASSIFICATION and Remarks / SOIL PROPERTIES

No.	Rec (in.)	Moist	N	Depth	Visual Classification and Remarks	PID	Qu	LL	PL	P200
1	12	M	12		Stiff, Black SILT, Little Fine Sand (TOPSOIL)	0.0				
2	10	M	20	5	Dense to Very Dense, Brown Fine to Coarse SAND and Rounded Fine to Coarse GRAVEL (SW/GW), Trace Silt	0.0				
3	11	M	32			0.0				
4		M	56	10		0.0				
5		M	47			0.0				
6		M	34	15		0.0				
7	18	M	15		Medium Dense, Brown Fine to Medium SAND, Trace Fine Gravel, Trace Silt (SP)	0.0				
8	18	W	14	20		0.0				
9	4	W	31			0.0				
10	12	W	8	25		0.0				
11	18	W	22			0.0				
12	10	W	54	30	Medium Dense to Very Dense, Fine to Coarse SAND, Trace to Little Fine Gravel (SP)	0.0				
13	16	W	54			0.0				
14	10	W	19	35		0.0				
15	11	W	40			0.0				
				40						

WATER LEVEL OBSERVATIONS

While Drilling ▽ 20.8 ft. Upon Completion of Drilling _____ ft.
Time After Drilling _____
Depth to Water _____ ▼
Depth to Cave in _____

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

GENERAL NOTES

Start 7/30/92 End 7/31/92
Driller Layne NW Chief MB Rig B-57
Logger TJM Editor RJR/JEM
Drill Method 4 1/4" I.D. HSA

LOG OF TEST BORING

WARZYN

Project: Beloit Corporation RI/FS

Location: Rockton, Illinois

Boring No. W19B
Surface Elevation 742.1
Job No. 1526892
Sheet 2 of 2

ONE SCIENCE COURT P.O. BOX 5385, MADISON, WI 53705 (608) 231-4747

SAMPLE No.	Type	Rec (in.)	Moist	N	Depth	VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES PID	Qu	LL	PL	P200
16		4	W	27			0.0				
17		6	W	23		Medium Dense to Dense, Brown Fine to Medium SAND, Trace Silt (SP)					
18		3	W	45	45						
19		0	W	26							
20		4	W	18	50						
21		3	W	38							
22		13	W	26	55						
23			W	24		Interbedded Seams of Dense Light Grayish-Brown Fine SAND and SILT (SM)					
					60	End Boring at 58.5 ft Install Well at 58.5 ft					
					65						
					70						
					75						
					80						

WARZYN

LOG OF TEST BORING

Project: Beloit Corporation RI/FS

Location: Rockton, Illinois

Boring No. W20R
Surface Elevation 743.9
Job No. 1526892
Sheet 1 of 1

ONE SCIENCE COURT, P.O. BOX 5385, MADISON, WI 53705 (608) 231-4747

SAMPLE No.	Type	Rec (in.)	Moist	N	Depth	VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES PID	Qu	LL	PL	P200
						Dark Brown to Black SILT, Little to Some Fine Sand (TOPSOIL)					
1		18	M	14		Brown Fine SAND, Some Silt, Trace Fine Gravel (SM)	0.0				
2		16	M	14			0.0				
3		12	M	38	5	Dense to Very Dense, Brown Fine to Coarse SAND and Fine to Coarse Rounded GRAVEL (SW/GW)	0.0				
4		14	M	48			0.0				
5		11	M	48	10		0.0				
6		13	M	50			0.0				
7		15	M	30	15		0.0				
8		7	M	36			0.0				
9		16	W	12	20	Medium Dense, Brown Fine to Medium SAND, Trace Fine Gravel (SP)	0.0				
10		18	W	14			0.0				
11		10	W	26	25		0.0				
12			W	36							
					30	End of Boring at 28.5 ft Install Well at 28.0 ft					
					35						
					40						

WATER LEVEL OBSERVATIONS

While Drilling ▽ 20.7 ft. Upon Completion of Drilling _____ ft.
Time After Drilling _____ _____ _____ _____
Depth to Water _____ _____ _____ _____ ▼
Depth to Cave in _____ _____ _____ _____

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

GENERAL NOTES

Start 7/21/92 End 7/21/92
Driller Layne NW Chief MB Rig B-57
Logger TJM Editor RJR/JEM
Drill Method 4 1/4" I.D. HSA

WARZYN

LOG OF TEST BORING

Project: Beloit Corporation RI/FS

Location: Rockton, Illinois

Boring No. W20B
Surface Elevation 743.9
Job No. 1526892
Sheet 1 of 2

ONE SCIENCE COURT, P.O. BOX 5385, MADISON, WI 53705 (608) 231-4747

SAMPLE						VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
No.	Type	Rec (in.)	Moist	N	Depth		PID	Qu	LL	PL	P200
						Boring Blind Drilled to 28.5 ft. See Boring Log W20R for Soil Descriptions 0 to 28.5 ft (Split Spoon Samples 1 through 12).					
					5						
					10						
					15						
					20						
					25						
13		6	W	56	30	Medium Dense, Brown Fine to Medium SAND, Trace Fine Gravel (SP)	0.0				
14		8	W	22		Interbedded Seams of Brown and Orange-Brown SILT and Fine SAND, Some Clay (ML)	0.0				
15		9	W	26	35		0.0				
16		10	W	25		Medium Dense, Brown and Orange-Brown Silty Fine SAND (SM)	0.0				
					40						

WATER LEVEL OBSERVATIONS

While Drilling ▽ 20.7 ft. Upon Completion of Drilling _____ ft.
Time After Drilling _____ _____ _____ _____
Depth to Water _____ _____ _____ _____ ▼
Depth to Cave in _____ _____ _____ _____

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

GENERAL NOTES

Start 7/28/92 End 7/29/92
Driller Layne NW Chief MB Rig B-57
Logger TJM Editor RJR/JEM
Drill Method 4 1/4" I.D. HSA

LOG OF TEST BORING

WARZYN

Project: Beloit Corporation RI/FS

Location: Rockton, Illinois

Boring No. W20B
Surface Elevation 743.9
Job No. 1526892
Sheet 2 of 2

ONE SCIENCE COURT P.O. BOX 5385, MADISON, WI 53705 (608) 231-4747

SAMPLE					VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
No.	Type	Rec (in.)	Moist	N		PID	Qu	LL	PL	P200
17		11	W	15	Medium Dense to Dense, Brown Fine SAND (SP)	0.0				
18		14	W	33		0.0				
19		0	W	34		0.0				
20			W	33		0.0				
21		6	W	36		0.0				
					Dense, Brown Fine to Medium SAND (SP)					
22		8	W	35		0.0				
					Very Stiff, Gray Lean CLAY and SILT (CL-ML)					
23			W	33		0.0				
24			W			0.0				
					End of Boring at 58.5 ft					
					Install Well at 52.0 ft					

Depth: 45, 50, 55, 60, 65, 70, 75, 80

LOG OF TEST BORING

WARZYN

Project: Beloit Corporation RI/FS

Location: Rockton, Illinois

Boring No. W21
Surface Elevation 747.8
Job No. 1526892
Sheet 1 of 1

ONE SCIENCE COURT, P.O. BOX 5385, MADISON, WI 53705 (608) 231-4747

SAMPLE No.	Type	Rec (in.)	Moist	N	Depth	VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES PID	Qu	LL	PL	P200
1		16	M	8		Stiff, Dark Brown to Black SILT, Little to Some Clay, Trace to Little Fine to Coarse Sand, Trace Fine Gravel (TOPSOIL)	0.0	1.5			
2		14	M	28	5	Dense to Very Dense, Brown Fine to Coarse SAND and Fine to Coarse Rounded GRAVEL, Occasional Cobble (SW/GW)	0.0				
3		0	M	38		Drove a Stone	0.0				
4		13	M	31			0.0				
5		5	M	> 100	10		0.0				
6		12	M	60			0.0				
7		15	M	70	15		0.0				
8		14	M	42			0.0				
9		13	M	38	20	Medium Dense to Dense, Brown Fine to Medium SAND (SP)	0.0				
10		14	W	12			0.0				
11		18	W	18	25		0.0				
12		18	W	12			0.0				
					30	Stiff, Brown Lean CLAY, Little to Some Fine to Coarse Sand, Trace Fine Gravel (CL)		1.5			
						End of Boring at 30.0 ft					
						Install Well at 30.0 ft					
					35						
					40						

WATER LEVEL OBSERVATIONS

While Drilling ▽ 23.8 ft. Upon Completion of Drilling _____ ft.
Time After Drilling _____
Depth to Water _____ ▼
Depth to Cave in _____

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

GENERAL NOTES

Start 7/20/92 End 7/20/92
Driller Layne NW Chief MB Rig B-57
Logger TJM Editor RJR/JEM
Drill Method 4 1/4" I.D. HSA

LOG OF TEST BORING

WARZYN

Project: Beloit Corporation RI/FS

Location: Rockton, Illinois

Boring No. W21B
Surface Elevation 747.8
Job No. 1526892
Sheet 1 of 2

ONE SCIENCE COURT, P.O. BOX 5385, MADISON, WI 53705 (608) 231-4747

SAMPLE No.	Type	Rec (in.)	Moist	N	Depth	VISUAL CLASSIFICATION and Remarks	PID	Qu	LL	PL	P200
						Earth Drilled to 30.0 ft. See W21 Log for Soil Profile and Descriptions.					
					5						
					10						
					15						
					20						
					25						
1		10	W	20	30	Light Brown Lean CLAY, Little Fine to Coarse Sand (CL)	0.0				
2		16	W	13		Medium Dense, Brown Silty Fine SAND, Trace Fine Gravel, Trace Clay (SM)	0.0				
3		18	W	8	35						
4		7	W	12		Black and Brown Silty Fine SAND, Little Clay, Trace Gravel (SM)	0.0				
					40						

WATER LEVEL OBSERVATIONS

While Drilling ▽ 23.9 ft. Upon Completion of Drilling _____ ft.
Time After Drilling _____
Depth to Water _____ ▼
Depth to Cave in _____

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

GENERAL NOTES

Start 8/3/92 End 8/3/92
Driller Layne NW Chief MB Rig B-57
Logger TJD Editor RJR/JEM
Drill Method 4 1/4" I.D. HSA

LOG OF TEST BORING

WARZYN

Project: Beloit Corporation RI/FS

Location: Rockton, Illinois

Boring No. W21B
Surface Elevation 747.8
Job No. 1526892
Sheet 2 of 2

ONE SCIENCE COURT P.O. BOX 5385, MADISON, WI 53705 (608) 231-4747

SAMPLE No.	Type	Rec (in.)	Moist	N	Depth	VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES PID	Qu	LL	PL	P200
5		18	W	7		Medium Dense, Silty Fine to Medium SAND, Trace Gravel, Trace Clay (SM)					
6		14	W	37		Very Dense, Brown Fine to Medium SAND, Little Silt and Gravel (SP)					
7		10	W	70	45						
8		12	W	44							
9		13	W	24	50	Dense, Brown Fine to Coarse SAND, Some Silt and Clay, Trace Coarse Gravel (SM)					
10			W	52		Light to Dark Brown Coarse SAND, Little Silt, Trace Coarse Gravel (SP-SM)					
11		12	W	>100	55	Coarse SAND and GRAVEL, Little Silt (SP-SM/GP-GM)					
12		6	W	66							
13			W	40	60						
						End of Boring at 61.0 ft Install Well at 60.0 ft					
					65						
					70						
					75						
					80						

WARZYN

LOG OF TEST BORING

Project: Beloit Corporation RI/FS

Location: Rockton, Illinois

Boring No. W22
Surface Elevation 754.9
Job No. 1526892
Sheet 1 of 2

ONE SCIENCE COURT, P.O. BOX 5385, MADISON, WI 53705 (608) 231-4747

SAMPLE No.	Type	Rec (in.)	Moist	N	Depth	VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES PID	VOCs Total	Qu	LL	PL	P200
						Very Stiff, Dark Brown to Black SILT, Little Clay, Trace Fine to Coarse Sand and Fine Gravel (TOPSOIL)						
1		16	M	20			0.0		3.0			
						Very Dense, Brown Fine to Coarse SAND and Fine to Coarse GRAVEL (SW-GW)						
2		10	M	44		Occasional Cobble	0.2					
					5							
3		8	M	82			0.2					
4		10	M	78			0.4					
					10							
5		12	M	84			1.5					
6		13	M	96	15		1.5					
7		12	M	62			3.0					
8			M		20		5.0					
						Very Stiff, Brown SILT, Little Fine to Coarse Sand, Trace Clay, Trace Fine to Coarse Gravel (ML)						
9		12	M	58			3.0		2.0			
10		14	M	52	25		0.0					
11		18	M	62			0.0		2.5			
12		0	M	60	30	Drove a Stone	0.0		3.0			
13		8	M	30			0.0					
14		14	M	36	35		0.0					
15		16	M	84								
					40							

WATER LEVEL OBSERVATIONS

While Drilling ▽ 30.5 ft. Upon Completion of Drilling _____ ft.
Time After Drilling _____
Depth to Water _____ ▼
Depth to Cave in _____

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

GENERAL NOTES

Start 7/20/92 End 7/20/92
Driller Layne NW Chief MB Rig B-57
Logger TJM Editor RJR/JEM
Drill Method 4 1/4" I.D. HSA

WARZYN

LOG OF TEST BORING

Project: Beloit Corporation RI/FS

Location: Rockton, Illinois

Boring No. W22
Surface Elevation 754.9
Job No. 1526892
Sheet 2 of 2

ONE SCIENCE COURT P.O. BOX 5385, MADISON, WI 53705 (608) 231-4747

SAMPLE					VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES					
No.	TYPE	Rec (in.)	Moist	N	Depth		PID	Total VOCs	Qu	LL	PL	P200
16			M	92								
					End of Boring at 41.0 ft							
					45							
					50							
					55							
					60							
					65							
					70							
					75							
					80							

WARZYN

LOG OF TEST BORING

Project: Beloit Corporation RI/FS

Location: Rockton, Illinois

Boring No. W22B
Surface Elevation 754.9
Job No. 1526892
Sheet 1 of 2

ONE SCIENCE COURT, P.O. BOX 5385, MADISON, WI 53705 (608) 231-4747

SAMPLE					VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES					
No.	Type	Rec (in.)	Moist	N	Depth		PID	VOCs Total	Qu	LL	PL	P200
						Earth Drilled to 60.0 ft. See W22C Boring Log for Soil Description.						

WATER LEVEL OBSERVATIONS

While Drilling ▽ 30.7 ft. Upon Completion of Drilling _____ ft.
Time After Drilling _____
Depth to Water _____ ▼
Depth to Cave in _____

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

GENERAL NOTES

Start 8/7/92 End 8/7/92
Driller Layne NW Chief Stewart Rig TH-60
Logger RJR Editor RJR/JEM
Drill Method Dual Tube

LOG OF TEST BORING

WARZYN

Project: Beloit Corporation RI/FS

Location: Rockton, Illinois

Boring No. W22B
Surface Elevation 754.9
Job No. 1526892
Sheet 2 of 2

ONE SCIENCE COURT P.O. BOX 5385, MADISON, WI 53705 (608) 231-4747

SAMPLE						VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES					
No.	Type	Rec (in.)	Moist	N	Depth		PID	Total VOCs	Qu	LL	PL	P200
					45							
					50							
					55							
					60	End of Boring at 60.0 ft Overshot Drilled to 61.0 ft for Well Installation						
					65							
					70							
					75							
					80							

LOG OF TEST BORING

WARZYN

Project: Beloit Corporation RI/FS

Location: Rockton, Illinois

Boring No. W22C
Surface Elevation 754.9
Job No. 1526892
Sheet 1 of 3

ONE SCIENCE COURT, P.O. BOX 5385, MADISON, WI 53705 (608) 231-4747

SAMPLE						VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES					
No.	TYPE	Rec (in.)	Moist	N	Depth		PID	VOCs Total	Qu	LL	PL	P200
						See W22 Log for Soil Profile and Description to 41.0 ft						
					5							
					10							
					15							
					20							
					25							
					30							
					35							
					40							

WATER LEVEL OBSERVATIONS

While Drilling ▽ 31.1 ft. Upon Completion of Drilling _____ ft.
Time After Drilling _____
Depth to Water _____ ▼
Depth to Cave in _____

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

GENERAL NOTES

Start 8/6/92 End 8/7/92
Driller Layne NW Chief Stewart Rig TH-60
Logger RJR Editor RJR/JEM
Drill Method Dual Tube

WARZYN

LOG OF TEST BORING

Project: Beloit Corporation RI/FS

Location: Rockton, Illinois

Boring No. W22C
Surface Elevation 754.9
Job No. 1526892
Sheet 2 of 3

ONE SCIENCE COURT P.O. BOX 5385, MADISON, WI 53705 (608) 231-4747

SAMPLE					VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES					
No.	TYPE	Rec (in.)	Moist	N	Depth	PID	Total VOCs	Qu	LL	PL	P200
					Very Stiff Brown SILT, Little Fine to Coarse Sand, Trace Fine to Coarse Gravel, Trace Clay (ML)						
					45						
					Fine to Coarse GRAVEL, Little Sand, Trace Silt (GP)						
					50						
					Brown Fine SAND, Trace Silt (SP)						
					55						
					Fine to Coarse GRAVEL, Some Sand, Trace to Little Silt (SP/GP-SM/GM)						
					60						
					65						
					70		12.1				
					75						
					80						
					Gray-Brown Fine SAND and Trace to Little Silt (SP-SM)						

WARZYN

LOG OF TEST BORING

Project: Beloit Corporation RI/FS

Location: Rockton, Illinois

Boring No. W22C
Surface Elevation 754.9
Job No. 1526892
Sheet 3 of 3

ONE SCIENCE COURT P.O. BOX 5385, MADISON, WI 53705 (608) 231-4747

SAMPLE						VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES					
No.	Type	Rec (in.)	Moist	N	Depth		PID	Total VOCs	Qu	LL	PL	P200
						Gray Lean CLAY (CL)						
					90							
					95							
1			M		100					36	17	99.7
						Gray Fine SAND, Trace to Little Silt (SP-SM)						
					105	End of Boring at 105.0 ft Overshot Drilled to 73.0 ft for Well Installation						
					110							
					115							
					120							
					125							

WARZYN

LOG OF TEST BORING

Project: Beloit Corporation RI/FS

Location: Rockton, Illinois

Boring No. W23
Surface Elevation 753.9
Job No. 1526892
Sheet 1 of 1

ONE SCIENCE COURT, P.O. BOX 5385, MADISON, WI 53705 (608) 231-4747

SAMPLE						VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
No.	Type	Rec (in.)	Moist	N	Depth		PID	Qu	LL	PL	P200
						Dense, Brown SAND and GRAVEL, Trace Silt (SP/GP)					
					5		0.0				
					10		0.0				
					15		0.0				
					20		0.0				
						Brown Silty SAND, Trace Clay (SM)					
					25		0.0				
1		20			30	Brown Fine to Coarse SAND, Trace Silt (SP)	0.0				
						Brown Silty SAND, Trace Clay (SM)					
2		20	M		35		0.0				
						End of Boring at 36.0 ft Install Well at 35.0 ft					
					40						

WATER LEVEL OBSERVATIONS

While Drilling ▽ 25.3 ft. Upon Completion of Drilling _____ ft.
Time After Drilling _____ _____ _____ _____
Depth to Water _____ _____ _____ _____ ▼
Depth to Cave in _____ _____ _____ _____

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

GENERAL NOTES

Start 8/24/92 End 8/24/92
Driller Layne NW Chief MB Rig B-57
Logger TJK Editor RJR/JEM
Drill Method 4 1/4" I.D. HSA

LOG OF TEST BORING

WARZYN

Project: Beloit Corporation RI/FS

Location: Rockton, Illinois

Boring No. W23B
Surface Elevation 753.7
Job No. 1526892
Sheet 1 of 2

ONE SCIENCE COURT, P.O. BOX 5385, MADISON, WI 53705 (608) 231-4747

SAMPLE						VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES					
No.	TYPE	Rec (in.)	Moist	N	Depth		PID	Total VOCs	Qu	LL	PL	P200
						Earth Drilled to 36.0 ft. See W23 Boring Log for Soil Descriptions.						
					5							
					10							
					15							
					20							
					25							
					30							
					35							
						Brown Silty SAND, Trace Clay (SM)						
						Fine to Coarse SAND and GRAVEL, Trace to Little Silt (SP-SM/GP-GM)						
					40							

WATER LEVEL OBSERVATIONS

While Drilling ▽ 27.6 ft. Upon Completion of Drilling _____ ft.
Time After Drilling _____ _____ _____ _____
Depth to Water _____ _____ _____ _____ ▼
Depth to Cave in _____ _____ _____ _____

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

GENERAL NOTES

Start 8/4/92 End 8/5/92
Driller Layne NW Chief Stewart Rig TH-60
Logger RJR Editor RJR/JEM
Drill Method Dual Tube

LOG OF TEST BORING

WARZYN

Project: Beloit Corporation RI/FS

Location: Rockton, Illinois

Boring No. W23B
Surface Elevation 753.7
Job No. 1526892
Sheet 2 of 2

ONE SCIENCE COURT P.O. BOX 5385, MADISON, WI 53705 (608) 231-4747

SAMPLE					VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES					
No.	TYPE	Rec (in.)	Moist	N	Depth		PID	Total VOCs	Qu	LL	PL	P200
					45							
					50			2510.0				
					55							
					60							
					65							
						Gray Fine SAND, Some Silt, Little Gravel, Trace Clay (SM)						
						Medium to Coarse GRAVEL, Trace to Little Sand, Trace Silt (GM)						
					70	Gray Lean CLAY (CL)						
					75							
1			M							30	16	99.5
						Thin Gray Sand Seam at Approximately 79.0 ft						
					80	End of Boring at 79.0 ft						
						Overshot Drilled to 51.0 ft for Well Installation						

WARZYN

LOG OF TEST BORING

Project: Beloit Corporation RI/FS

Location: Rockton, Illinois

Boring No. W24
Surface Elevation 752.3
Job No. 1526892
Sheet 1 of 1

ONE SCIENCE COURT, P.O. BOX 5385, MADISON, WI 53705 (608) 231-4747

SAMPLE					VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
No.	TYPE	Rec (in.)	Moist	N	Depth		PID	Qu	LL	PL	P200
						Dark Brown Sandy SILT, Trace Gravel (TOPSOIL)					
					5	Fine to Medium GRAVEL, Trace to Little Sand (GM)					
					10	Brown Fine to Medium SAND, Little to Some Fine to Medium Gravel (SP/GP)					
					15						
						Medium to Coarse GRAVEL, Trace to Little Sand (GM)					
					20						
					25						
					30						
					35						
						End of Boring at 40.0 ft Install Well at 32.0 ft					
					40						

WATER LEVEL OBSERVATIONS

While Drilling ▽ 24.3 ft. Upon Completion of Drilling _____ ft.
Time After Drilling _____ _____ _____ _____
Depth to Water _____ _____ _____ _____ ▼
Depth to Cave in _____ _____ _____ _____

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

GENERAL NOTES

Start 8/20/92 End 8/20/92
Driller Layne NW Chief MB Rig B-57
Logger RJR Editor RJR/JEM
Drill Method 4 1/4" I.D. HSA

LOG OF TEST BORING

WARZYN

Project: Beloit Corporation RI/FS

Location: Rockton, Illinois

Boring No. W25C/DB1 R
Surface Elevation 744.4
Job No. 1526892
Sheet 1 of 2

ONE SCIENCE COURT, P.O. BOX 5385, MADISON, WI 53705 (608) 231-4747

SAMPLE						VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES					
No.	Type	Rec (in.)	Moist	N	Depth		PID	Total VOCs	Qu	LL	PL	P200
						Earth Drilled to 80.0 ft. See Boring Log DB01 for Soil Descriptions.						
					5							
					10							
					15							
					20							
					25							
					30							
					35							
					40							

WATER LEVEL OBSERVATIONS

While Drilling ▽ 21.8 ft. Upon Completion of Drilling _____ ft.
Time After Drilling _____ _____ _____ _____
Depth to Water _____ _____ _____ _____ ▼
Depth to Cave in _____ _____ _____ _____

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

GENERAL NOTES

Start 8/14/92 End 8/17/92
Driller Layne NW Chief Stewart Rig TH-60
Logger RJR Editor RJR/JEM
Drill Method Dual Tube

LOG OF TEST BORING

WARZYN

Project: Beloit Corporation RI/FS

Location: Rockton, Illinois

Boring No. W25C/DB1R
Surface Elevation 744.4
Job No. 1526892
Sheet 2 of 2

ONE SCIENCE COURT P.O. BOX 5385, MADISON, WI 53705 (608) 231-4747

SAMPLE						VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES					
No.	TYPE	Rec (in.)	Moist	N	Depth		PID	Total VOCs	Qu	LL	PL	P200
					45							
					50							
					55							
					60							
					65							
					70							
					75							
					80	End of Boring at 80.0 ft Install Well at 73.0 ft						

WARZYN

LOG OF TEST BORING

Project: Beloit Corporation RI/FS

Location: Rockton, Illinois

Boring No. W26C/DB4
Surface Elevation 751.9
Job No. 1526892
Sheet 1 of 3

ONE SCIENCE COURT, P.O. BOX 5385, MADISON, WI 53705 (608) 231-4747

SAMPLE						VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES					
No.	Type	Rec (in.)	Moist	N	Depth		PID	Total VOCs	Qu	LL	PL	P200
						Black Sandy SILT (TOPSOIL)						
						Dense, Brown Fine to Coarse SAND and GRAVEL, Trace Silt, Trace Cobble (SP/GP)						
					5							
					10							
					15							
					20							
					25							
						Dense, Brown Fine to Medium SAND, Trace Silt and Clay (SP)						
					30	Occasional Thin Gravel Layers 1-2"						
					35							
1			M		40							1.6

WATER LEVEL OBSERVATIONS

While Drilling ▽ ____ ft. Upon Completion of Drilling ____ ft.
Time After Drilling ____ ____ ____ ____
Depth to Water ____ ____ ____ ____ ▼
Depth to Cave in ____ ____ ____ ____

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

GENERAL NOTES

Start 7/24/92 End 7/24/92
Driller Layne NW Chief Stewart Rig TH-60
Logger ____ Editor ____
Drill Method ____

LOG OF TEST BORING

WARZYN

Project: Beloit Corporation RI/FS

Location: Rockton, Illinois

Boring No. W26C/DB4
Surface Elevation 751.9
Job No. 1526892
Sheet 2 of 3

ONE SCIENCE COURT P.O. BOX 5385, MADISON, WI 53705 (608) 231-4747

SAMPLE					VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES					
No.	Type	Rec (in.)	Moist	N	Depth	PID	Total VOCs	Qu	LL	PL	P200
					45 Fine to Medium Silty SAND (SM)						
					50 Brown Fine to Medium SAND, Trace Silt and Clay (SP)						
					55						
					60 Fine to Coarse GRAVEL, Little Sand, Trace to Little Silt (GM)						
					Silty Clayey Fine to Coarse GRAVEL, Little Sand (GC-GM)						
					65						
					70 Fine to Coarse GRAVEL, Little Sand, Trace to Little Silt (GM)		9.1				
					75						
							7.3				
					80						
					Gray Fine to Coarse SAND, Some Gravel, Little Silt and Clay (SP-SM)						

LOG OF TEST BORING

WARZYN

Project: Beloit Corporation RI/FS

Location: Rockton, Illinois

Boring No. W26C/DB4
Surface Elevation 751.9
Job No. 1526892
Sheet 3 of 3

ONE SCIENCE COURT P.O. BOX 5385, MADISON, WI 53705 (608) 231-4747

SAMPLE						VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES					
No.	Type	Rec (in.)	Moist	N	Depth		PID	Total VOCs	Qu	LL	PL	P200
2			M									18.4
					90	Gray Lean CLAY, Trace Sand (CL)						
3			M							48	19	99.2
					95							
					100							
						Gray-Brown Fine to Medium SAND, Trace to Little Silt (SP-SM)						
					105							
						Fine to Medium GRAVEL, Little Sand, Little Silt (GM)						
					110	End of Boring at 109.5 ft Overshot Drilled to 81.0 ft for Well Installation						
					115							
					120							
					125							

WARZYN

LOG OF TEST BORING

Project: Beloit Corporation RI/FS

Location: Rockton, Illinois

Boring No. W27
Surface Elevation 764.8
Job No. 1526892
Sheet 1 of 2

ONE SCIENCE COURT, P.O. BOX 5385, MADISON, WI 53705 (608) 231-4747

SAMPLE						VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
No.	TYPE	Rec (in.)	Moist	N	Depth		PID	Qu	LL	PL	P200
						Dark Brown Sandy SILT (TOPSOIL)					
						Medium to Coarse GRAVEL, Trace to Little Sand (GM)					
					5						
					10						
					15						
					20						
					25	Some Sand					
					30						
					35	Brown Fine SAND and Medium to Coarse GRAVEL, Trace Silt (SM/GM)					
					40						

WATER LEVEL OBSERVATIONS

While Drilling ▽ 38.1 ft. Upon Completion of Drilling _____ ft.
Time After Drilling _____ _____ _____ _____
Depth to Water _____ _____ _____ _____ ▼
Depth to Cave in _____ _____ _____ _____

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

GENERAL NOTES

Start 8/18/92 End 8/18/92
Driller Layne NW Chief Stewart Rig TH-60
Logger RJR Editor RJR/JEM
Drill Method Dual Tube

WARZYN

LOG OF TEST BORING

Project Beloit Corporation RI/FS

Location Rockton, Illinois

Boring No. W27
Surface Elevation 764.8
Job No. 1526892
Sheet 2 of 2

ONE SCIENCE COURT P.O. BOX 5385, MADISON, WI 53705 (608) 231-4747

SAMPLE					VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
No.	Type	Rec (in.)	Moist	N	Depth	PID	Qu	LL	PL	P200
					45					
					50					
					End of Boring at 50.0 ft Overshot Drilled to 51.0 ft for Well Installation					
					55					
					60					
					65					
					70					
					75					
					80					

WARZYN

LOG OF TEST BORING

Project: Beloit Corporation RI/FS

Location: Rockton, Illinois

Boring No. W28
Surface Elevation 752.8
Job No. 1526892
Sheet 1 of 1

ONE SCIENCE COURT, P.O. BOX 5385, MADISON, WI 53705 (608) 231-4747

SAMPLE					VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
No.	Type	Rec (in.)	Moist	N	Depth		PID	Qu	LL	PL	P200
					White Limestone GRAVEL (FILL)						
					Brown Fine to Coarse SAND, Some Gravel, Little Silt and Clay (SP-SM)						
					5						
					10						
					15						
					20						
					25						
1					30						5.7
					End of Boring at 32.5 ft Overshot Drilled to 32.5 ft for Well Installation						
					35						
					40						

WATER LEVEL OBSERVATIONS

While Drilling ▽ 23.4 ft. Upon Completion of Drilling _____ ft.
Time After Drilling _____
Depth to Water _____ ▼
Depth to Cave in _____

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

GENERAL NOTES

Start 8/18/92 End 8/18/92
Driller Layne NW Chief Stewart Rig TH-60
Logger RJR Editor RJR/JEM
Drill Method 6" Overshot Dual Tube

WARZYN

LOG OF TEST BORING

Project: Beloit Corporation RI/FS

Location: Rockton, Illinois

Boring No. W29
Surface Elevation 747.6
Job No. 1526892
Sheet 1 of 1

ONE SCIENCE COURT, P.O. BOX 5385, MADISON, WI 53705 (608) 231-4747

SAMPLE					VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
No.	Type	Rec (in.)	Moist	N	Depth		PID	Qu	LL	PL	P200
					Dark Brown Sandy SILT (TOPSOIL)						
					Medium to Coarse GRAVEL, Trace to Little Sand (GM)						
					5						
					10 Fine to Coarse GRAVEL, Trace to Little Sand (GM)						
					15						
					20 Brown Fine to Coarse SAND, Trace Silt, Clay and Gravel (SP)						
1			W		25						1.9
					30						
					End of Boring at 31.0 ft Install Well at 31.0 ft						
					35						
					40						

WATER LEVEL OBSERVATIONS

While Drilling ▽ 26.9 ft. Upon Completion of Drilling _____ ft.
Time After Drilling _____
Depth to Water _____ ▼
Depth to Cave in _____

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

GENERAL NOTES

Start 8/20/92 End 8/20/92
Driller Layne NW Chief MB Rig B-57
Logger RJR Editor RJR/JEM
Drill Method 4 1/4" I.D. HSA

D4

City of Rockton and Beloit Corporation Production Well Logs

John C. Moore Corporation Rockford, Ill. Binder and Index in Issue Patented. FORM

TOWN	Rockton	TOWNSHIP	Rockton	MAP NO.	2
COMPANY	P. E. Millis Co.	NO.		R.	1E
FARM	Rockton City	NO.	3	T.	46 N
AUTHORITY	Driller's Log Book			SEC.	24
ELEVATION					
COLLECTOR					
CONFIDENTIAL		DATE DRILLED	Mar. 1940		

#3

SW NW SW

NO.	COUNTY No. 390 STRATA	THICKNESS FEET	THICKNESS IN.	DEPTH FEET	DEPTH IN.
	Dirt, black, clay and rubble	5		5	
	Rubble and yellow lime, hard	5		10	
	Lime, yellow, hard	10		20	
	Lime, yellow and blue, hard	10		30	
	Lime, dark gray, hard	15		45	
	Lime, dark gray and blue, hard	10		55	
	Lime, blue, hard	10		65	
	Lime, dark gray and blue, hard	5		70	
	Lime, yellow and blue, hard	5		75	
	Lime, yellow and gray, hard	5		80	
	Lime, gray, hard	15		95	
	Lime, hard	5		100	
	Lime and clay, soft	5		105	
	St. Peters sandstone, soft	94		199	
	Water at 110'				
	Main supply at 110-195				
	Waterhead 78'. Drawn-down	44			
	Yield 120 g.p.m.				
	Casing Record:				
	10" to 10'				
	8" to 104'				

COUNTY Winnebago

INDEX NO. 0224

DRILL RECORD

24-46N-1E

(A6572--15M--10-39) ILLINOIS GEOLOGICAL SURVEY, URBANA

Town	Rockton	Township	Rockton	R. 1E
Company	P. E. Miller Co.	No.	T. 46 N	Sec. 24
Farm	Rockton City	No. 3		SW NW SW
Authority	Summary sample study			
Elevation				
Collector				
Confidential	Date Drilled	March 1940		

No.	COUNTY No. 39 Strata	Thickness Feet	Thickness In.	Depth Feet	Depth In.
	Studied by E.C. Cockrum, February 1942.				
	PLEISTOCENE SYSTEM				
	Silt, sandy, dolomitic, brown	5		5	
	ORDOVICIAN SYSTEM				
	Platteville dolomite				
	Dolomite, buff, brownish yellow, very fine to fine	15		20	
	Dolomite, buff, light gray, very fine	15		35	
	Dolomite, buff, brownish yellow, very fine	10		45	
	Dolomite, brownish yellow, light gray, very fine	25		70	
	Dolomite, brownish yellow, light buff, very fine to fine	10		80	
	Dolomite, light buff, fine to medium	10		90	
	Glenwood formation				
	Dolomite, very sandy, light buff, extra fine	5		95	
	Dolomite, very finely sandy, greenish, yellowish, extra fine; sandstone, white, fine to coarse, incoherent; with sandstone, dark red, very fine, ferruginous, compact at 115'	30		135	
	St. Peter sandstone				
	Sandstone, white, fine to medium, well rounded,				

COUNTY Winnebago

Summary Sample Set #4386 24-46N-1E

(40430—20M) ILLINOIS GEOLOGICAL SURVEY, URBANA (3-43)

SHEET [illegible] T. 46N R. 1E S. [illegible]

COMPANY F. E. Miller Co. HOLE NO.

FARM Rockton City HOLE NO. 3

No.	Strata	Thickness Feet	Thickness In.	Depth Feet	Depth In.
	Incoherent	25		160	
	Sandstone, white, fine to coarse, well rounded, incoherent	40		200	

COUNTY Winnebago

Summary Sample Set #4386 24-46N-1E

ILLINOIS GEOLOGICAL SURVEY, URBANA

Strata	Thickness	Top	Bottom
Top soil		0	1
Coarse sand and gravel		1	20
Fine sand		20	42
Coarse sand and gravel		42	120
Limestone		120	----

Diameter, length and type of material left in well:
40' of shutter screen made of bronze. #5 openings.
80' of 16" inside casing made of 3/8" steel with welded connections.
20' of 42" outside casing made of 5/16 Steel with welded connections.
20 yards of gravel used in well. Size: buckshot.

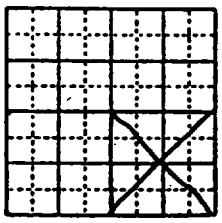
Test of well. Did you use test or permanent pump? test Size of bowl: 12" SSKLC
Power used: E: horse power: 110.
Size of orifice: 10" X 8"
Pumping test - measurements from ground level:

Time	G.P.M.	Static	Drawdown	Pumping Level
24 hr. test	1500	43	24	67'

Recovery in 5 minutes: full.
Did you seal bottom of well? yes Thickness: ¼" Material: steel plate.
Was well under-reamed? no
All screen was placed at bottom.
Depth of well (from ground level to top of plug): 120'
Was cement placed around or between any of the casings? yes - ready mix from ground level to 20' between 42" & 16". 9 bag mixture.

S.S. # 27476

COMPANY Layne-Western Company
FARM City of Rockton #5 NO. 1
DATE DRILLED July 1955 COUNTY NO. 139
AUTHORITY Layne-Western Company
ELEVATION
LOCATION NEc of town; SE ¼ of section
COUNTY WINNEBAGO

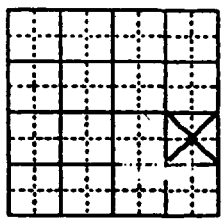


13-46N-1E

ILLINOIS GEOLOGICAL SURVEY, URBANA

Strata	Thickness	Top	Bottom
Summary Sample Study by G. H. Emrich 5/57			
Pleistocene series			
Soil, sandy	2		2
Gravel, very coarse; sand, trace silt, grayish-brown, very coarse to coarse, little medium, calcareous	18		20
Sand, slightly gravelly, trace silt, brown, very coarse to coarse, little medium, calcareous	22		42
Gravel, very coarse; sand, grayish-brown, very coarse to medium, little fine, calcareous, clean	23		65
Sand, grayish-buff, fine to coarse, calcareous, clean	5		70
Gravel, very coarse; sand, grayish-brown, fine to very coarse, calcareous, clean	15		85
Gravel, very coarse; little sand, as above	5		90
Gravel, very coarse; sand, as above	25		115
Gravel, very coarse, calcareous, clean	5		120
"Limestone"			120
			TD

COMPANY Layne-Western Company
FARM City of Rockton NO. 1-56
DATE DRILLED 1956 COUNTY NO. 139
AUTHORITY G. H. Emrich
ELEVATION
LOCATION NE SE
COUNTY WINNEBAGO S.S. #27475 13-46N-1E



CW CORPORATION
P. O. Box 994
Waukesha, Wisconsin 53187

Water Wells & Pumps
(414) 542-4040
(414) 646-3935

TV INSPECTION

Beloit Corporation
Well 441 E
Weldery - Small Well

9-15-83

WAC
M.S.
RN(TWC)

DEPTH-FT	OBSERVATIONS
0	Top casing - in pit
5	weld
15	weld
21	static
29	weld
33	floc. - build up?
38	weld
41	? check on way up
50	clean
59	top - screen leader. lead looks less than 1' long and inside diameter ± 6"
60	dark buildup
62	dark buildup - maybe result of bowl rub
70	slots maybe wider
76	? check on way out
77	dirty buildup
80	bottom - looks like hook for lowering screen, bent-in bottom foot.

START OUT OF HOLE

80	bottom
76	o.k.
62	bowl rubs
58	appears like top screen
41	o.k.

General Observation - Well looks structurally sound and can withstand development work.

Sheet No.___of___

441 B

WATER WELL SEALING FORM

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
DIVISION OF ENVIRONMENTAL HEALTH
525 WEST JEFFERSON STREET
SPRINGFIELD, ILLINOIS 62761

RETURN ALL COPIES TO IDPH

TYPE OR PRESS FIRMLY

This form shall be submitted to this Department not more than 30 days after a potable water well, boring or monitoring well is sealed. Such wells are to be sealed not more than 30 days after they are abandoned in accordance with the sealing requirements in the Water Well Construction Code.

1. Ownership (Name of Controlling Party) Beloit Corporation

2. Well Location: Prairie Hill Road (Address - Lot Number) Rockton (Town ~~City~~) Winnebago (County)

General Description: Section 13 Township 46 (N)~~(S)~~ Range 12 (E)~~(W)~~
SW Quarter of the SW Quarter of the SW Quarter

3. Year Drilled ? (old)

4. Drilling Permit No.(and date, if known) ?

5. Type of Well: Bored ____ Drilled X Other ____

6. Total Depth 80 Diameter (inches) 8

7 Formation clear of obstruction X yes ____ no

8. DETAILS OF PLUGGING

Filled with chlo-rinated & washed "P" rock (cement or other materials) from 80 to 62 ft.

Kind of plug neat cement - 6 gal/sack from 4 to 62 ft.

Filled with bentonite chips from 3.5 to 4 ft.

Kind of plug ____ from ____ to ____ ft.

Filled with sand from 0.2 to 3.5 ft.

Kind of plug steel from 0 to 0.2 ft.

9. CASING RECORD
Upper 3 feet of casing removed 4' Yes ____ No

If well casing consists of brick, stone, concrete blocks, porous tile, or other porous material, casing was removed to a depth of 10 feet below the surface ____ Yes ____ No.

10. Date well was sealed: Month finished August Day 22 Year 1990

11. Licensed water well driller or other person approved by the Department performing well sealing:

William A. Cummens (Name) 102-000189 (Complete License Number)

W290 N489 Elmhurst Drive (Address) Waukesha (City) WI 53188 (State/Zip)

8/88

This State Agency is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under Public Act 85-0863. Disclosure of this information is mandatory. This form has been approved by the Forms Management Center.

IL 482-0631

CTW CORPORATION
P. O. Box 994
Waukesha, Wisconsin 53187

Water Wells & Pumps
(414) 542-4040
(414) 646-3935

BELOIT CORPORATION
Rockton, Wisconsin
Test Well (Research) 441 K
March 1989

0 - 2	black top soil
2 - 23	gravel with clay and rocks
23 - 62	sand/clay mix with streaks of gravel
62 - 105	clay, yellow/brown, with streaks of gravel
105 - 118	clay with coarse sand and gravel
118 - 130	sandy clay
130 - 148	sandy clay with gravel - drills easily
148 - 178	hard sandy clay, needs pulldown, some thin streaks of gravel, less than one foot in thickness
178 - 184	gravel, drills easily, holding tools back
184 - 205	hard clay, clay with sand - needs pulldown
205 - 222	softer sandy clay
222 - 226	rough broken up limestone in clay
226 - 229	hard limestone - needs pulldown
229 - 231	soft spot in limestone
231 - 235	limestone, not real hard - needs pull down to drill

Yellow Copy: Well Contractor
Golden Copy: Well Owner

441K

Well Construction Report

THIS FORM MUST BE COMPLETED WITHIN 30 DAYS
OF WELL COMPLETION AND SENT TO
THE ILLINOIS DEPARTMENT OF PUBLIC HEALTH
DIVISION OF ENVIRONMENTAL HEALTH
525 WEST JEFFERSON STREET
SPRINGFIELD, ILLINOIS 62761

1. Type of Well
   a. Bored____ Hole Diam. 17 in. Depth 235 ft
      Buried Slab: Yes___ No___
   b. Driven____ Drive Pipe Diam.____in. Depth____ft
   c. Drilled X Finished in Drift X In Rock X
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)
neat cement	0	130

2. Well furnishes water for human consumption? Yes X No___
3. Date well drilled completed 10/89 10/20/89
4. Permanent pump installed? Yes X Date 10/89 No___
   Manufacturer Simmons Type Sub.
   Location ~~160'~~ 190'
   Capacity 250 gpm. Depth of setting 190 ft.
5. Well top sealed? Yes X No___ Type gasket & plates
6. Pitless adapter installed? Yes___ No X
   Manufacturer_____ Model No._____
   How attached to casing?_____
7. Well disinfected? Yes X No___
8. Pump and equipment disinfected Yes X No___

IMPORTANT NOTICE

This State Agency is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under Public Act 85-0863. Disclosure of this information is mandatory. This form has been approved by the Forms Management Center.

PRESS FIRMLY WITH BLACK PEN OR TYPE
Do Not Use Felt Pen

IL482-0126

GEOLOGICAL AND WATER SURVEYS WELL RECORD

9. Driller William A. Cummens License No. 102-000189
10. Well Site Address Prairie Hill Road, Rockton
11. Property Owner Beloit Corporation Well No. B 441K
12. Permit No. 009351 Date Issued 02-14-89
13. Location: County Winnebago
    Sec. 12
    Twp. 46N
    Rge. 12E

Show location in section plat

14. Water from drift & rock at depth 175/185 to 225/235

15. Casing and Liner Pipe

Diam. (in)	Kind and Weight	From (ft)	To (ft)
12	A-53-13 steel 0.375"	+2	175
12	A-53-13 steel 0.375"	185	225
12	stainless steel screen	175 225	185 235

16. Screen: Diam. 12 in, Length 20 in, Slot Size 40
17. Size hole below casing - in. 18. Ground Elev. 750 ft msl.
19. Static level 32 ft below casing top which is 2 ft. above ground level. Pumping level 150 ft, pumping 250 gpm for 12 hours.

20. Earth Materials Passed Through	Depth of Top	Depth of Bottom
top soil	0	2
glacial - mixed	2	222
limestone	222	235

Continue on separate sheet if necessary.

Signed [signature] Date 11-8-89

ALLABAUGH WELL COMPANY

WELL DRILLING • PUMPS

3400 Auburn Street — Rockford, Illinois

963-0451

- *Pump Repairs*
- *Chlorinating*
- *Acidizing*
- *Shooting*

June 13, 1959

WELL LOG TEST

BELOIT IRON WORKS - Beloit, Ill.
(Rockton Plant)

Bottom	Thickness	Remarks
5'	5'	Black soil
86'	81'	Sand, gravel & boulders w/ clay, dirty
95'	9'	Yellow & brown clay
106'	11'	Sand & gravel w/ clay
125'	19'	Brown clay
128'	3'	Sand
137'	9'	Brown clay
148'	11'	Sand dirty
155'	7'	Clay hard
185'	30'	Sand & gravel & boulders
200'	15'	Clay
235'	35'	Clay, sand
235'		Limestone, bottom of hole

60 slot 441'

John H. Allabaugh

Best formation for setting screen is from 155' to 185' depth.

Jacuzzi PUMPS FOR ALL PUMPING REQUIREMENTS

INJECTOR PUMPS • WATER SYSTEMS • SUMP PUMPS • CENTRIFUGALS • TURBINE PUMPS • SUBMERSIBLES

LOG OF WATER WELL

Property owner Beloit Iron Works Well No. Rockton Ill Plant #1

Drilled by Allabaugh Well Co. Year 6/59

Formations passed through	Thickness	Depth of Bottom
Top soil	3	3
Gravel, course	13	16
Clay, yellow w/stones	142	158'
Sand & gravel, dirty.	28	186
Clay, Sandy	49	235
Limestone	2	237

4416

S.S. # 34994 COUNTY No. 631

Recd 12-23-59

[Continue on back if necessary]

Finished in Sand & Gravel at _____ to 186 ft.

Cased with 16 inch steel from 0 to 161 ft.

and _____ inch _____ from _____ to _____ ft.

Size hole below casing 12 inch. Static level from surf. 30 ft.

Tested capacity 1000 gal. per min. Temperature _____ °F.

Water lowered to 78 ft. _____ in. in _____ hrs. _____ min.

Length of test 5 hrs. _____ min. Screen Stainless

Slot 60 Diam. 12" Length 25 Bottom set at _____ ft.

Permit issued March 28, 1960 [Show location in Section Plat]

Township name Rockton Elev. _____ Sec. 13

Description of location NW 1/4 of the NE 1/4 of Sec 13 Twp. 46N Rge. 1E

Signed J. Hallabaugh County Winnebago

WINNEBAGO

Copy for Illinois State Geological Survey Index: 13-46N-1E

LOG OF TEST BORING

WARZYN

Project: Beloit Corporation RI/FS

Location: Rockton, Illinois

Boring No. WW441L
Surface Elevation 750.7
Job No. 1526892
Sheet 1 of 6

ONE SCIENCE COURT, P.O. BOX 5385, MADISON, WI 53705 (608) 231-4747

SAMPLE						VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
No.	TYPE	Rec (in.)	Moist	N	Depth		PID	Qu	LL	PL	P200
						Black TOPSOIL, Little Fine to Coarse Gravel (TOPSOIL)					
					5	Fine to Coarse GRAVEL, Some Silty Fine Sand, Trace Cobble (GM)					
					10	Fine to Coarse GRAVEL, Little to Some Silty Fine Sand, Trace Cobble (GM)					
					15						
					20						
					25	Fine to Medium SAND, Trace Silt (SP)					
					30						
					35	Silty Fine to Medium SAND, Trace Clay, Trace Gravel (SM)					
					40						

WATER LEVEL OBSERVATIONS

While Drilling ▽ ____ ft. Upon Completion of Drilling ____ ft.
Time After Drilling ____ ____ ____ ____
Depth to Water ____ ____ ____ ____ ▼
Depth to Cave in ____ ____ ____ ____

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

GENERAL NOTES

Start 3/1/89 End 3/1/89
Driller ____ Chief MB Rig ____
Logger ____ Editor ____
Drill Method ____

LOG OF TEST BORING

WARZYN

Project: Beloit Corporation RI/FS

Location: Rockton, Illinois

Boring No. WW441L
Surface Elevation 750.7
Job No. 1526892
Sheet 2 of 6

ONE SCIENCE COURT P.O. BOX 5385, MADISON, WI 53705 (608) 231-4747

SAMPLE					VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
No.	TYPE	Rec (in.)	Moist	N	Depth	PID	Qu	LL	PL	P200
					45					
					50	Brown Fine to Coarse SAND, Trace to Little Gravel, Trace Silt, Trace Clay (SP) Occasional Thin Gravel Layers Occasional Thin Clay Layers					
					55					
					60					
					65	Medium to Coarse SAND, Some Clay, Little Silt Dominated by Angular to Subangular Sand Grains, Some Rounded to Well Rounded (SP)				
					70					
					75					
					80	Fine to Coarse SAND and GRAVEL, Trace to Little Silt (SP/GP)				

WARZYN

LOG OF TEST BORING

Project: Beloit Corporation RI/FS

Location: Rockton, Illinois

Boring No. WW441L
Surface Elevation 750.7
Job No. 1526892
Sheet 3 of 6

ONE SCIENCE COURT P.O. BOX 5385, MADISON, WI 53705 (608) 231-4747

SAMPLE					VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
No.	Type	Rec (in.)	Moist	N	Depth	PID	Qu	LL	PL	P200
					90 Light Brown Medium to Coarse SAND, Some Soft Wood Black Fragments, Trace Clay and Silt (SM)					
					95					
					100					
					105					
					110					
					115					
					120 Fine to Medium SAND and CLAY, Trace Silt, Little Wood Fragments (SC)					
					125 Fine to Coarse SAND, Trace Gravel, Trace Silt, Trace Clay, Trace Wood Fragments (SM)					

LOG OF TEST BORING

WARZYN

Project: Beloit Corporation RI/FS

Location: Rockton, Illinois

Boring No. WW441L
Surface Elevation 750.7
Job No. 1526892
Sheet 4 of 6

ONE SCIENCE COURT P.O. BOX 5385, MADISON, WI 53705 (608) 231-4747

SAMPLE					VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
No.	Type	Rec (in.)	Moist	N	Depth	PID	Qu	LL	PL	P200
					135					
					140					
					145					
					150 — Silty Fine to Medium Sandy CLAY, Little to Some Wood Fragments (CL)					
					155					
					160					
					165					
					170					

WARZYN

LOG OF TEST BORING

Project: Beloit Corporation RI/FS

Location: Rockton, Illinois

Boring No. WW441L
Surface Elevation 750.7
Job No. 1526892
Sheet 5 of 6

ONE SCIENCE COURT P.O. BOX 5385, MADISON, WI 53705 (608) 231-4747

SAMPLE						VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
No.	TYPE	Rec (in.)	Moist	N	Depth		PID	Qu	LL	PL	P200
					180						
					185						
					190						
					195						
					200						
					205						
					210						
					215						

WARZYN

LOG OF TEST BORING

Project: Beloit Corporation RI/FS

Location: Rockton, Illinois

Boring No. WW441L
Surface Elevation 750.7
Job No. 1526892
Sheet 6 of 6

ONE SCIENCE COURT P.O. BOX 5385, MADISON, WI 53705 (608) 231-4747

SAMPLE					VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
No.	TYPE	Rec (in.)	Moist	N	Depth		PID	Qu	LL	PL	P200
					225	LIMESTONE Bedrock (LIMESTONE)					
					230						
					235						
					240						
					245	End of Boring at 243.8 ft					
					250						
					255						
					260						

D5

SOIL BORINGS SB8-SB21

LOG OF TEST BORING

WARZYN

Project: Beloit Corporation RI/FS

Location: Rockton, Illinois

Boring No. SB08
Surface Elevation 745.6
Job No. 1526892
Sheet 1 of 1

ONE SCIENCE COURT, P.O. BOX 5385, MADISON, WI 53705 (608) 231-4747

SAMPLE No.	Rec (in.)	Moist	N	Depth	VISUAL CLASSIFICATION and Remarks	PID	Qu	LL	PL	P200
					2" Crushed Limestone Gravel (FILL)					
1	22	M			Stiff, Black SILT (FILL), (Fuel Odor)	3.5				
2	6	M			Loose, Black, Silty SAND and GRAVEL (SW/GW), (Fuel Odor and Sheen)	1.0				
3	2	M		5		0.5				
4	1	M				0.5				
5	19	M		10	Dense, Black, Fine to Coarse SAND and Fine to Coarse Rounded GRAVEL (SW/GW), (Fuel Odor and Sheen)	0.5				
6		M				0.5				
7		M				0.5				
8		M		15		0.2				
9		M			Medium Dense, Gray and Black, Fine SAND (SP), (Fuel Odor)	0.2				
10		M		20		0.0				
11		W				0.0				
				25						
					Groundwater Sample Collected for Field GC Screening					
				30	End of Boring at 29.0 ft					
				35						
				40						

WATER LEVEL OBSERVATIONS

While Drilling ▽ 21.0 ft. Upon Completion of Drilling _____ ft.
Time After Drilling _____ _____ _____ _____
Depth to Water _____ _____ _____ _____ ▼
Depth to Cave in _____ _____ _____ _____

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

GENERAL NOTES

Start 7/28/92 End 7/28/92
Driller Layne NW Chief MB Rig B-57
Logger TJM Editor RJR/JEM
Drill Method 4 1/4" I.D. HSA

LOG OF TEST BORING

WARZYN

Project: Beloit Corporation RI/FS

Location: Rockton, Illinois

Boring No. SB09
Surface Elevation 754.0
Job No. 1526892
Sheet 1 of 1

ONE SCIENCE COURT, P.O. BOX 5385, MADISON, WI 53705 (608) 231-4747

SAMPLE No.	Type	Rec (in.)	Moist	N	Depth	VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES PID	Qu	LL	PL	P200
						Stiff, Dark Brown to Black Silty CLAY (TOPSOIL)					
1		20	M			Very Dense, Brown Fine to Coarse SAND and Fine to Coarse Rounded GRAVEL, Occasional Cobble (SW/GW)	0.0				
2		12	M				0.0				
3		15	M		5		0.0				
4		0	M			Drove a Cobble					
5		8	M		10		0.0				
6		18	M				0.0				
7		20	M				0.0				
8		19	M		15		0.0				
9		20	M				0.0				
10		20	M		20		0.0				
11		20	M				0.0				
12		0	M			Sample Taken By Oversite for QA/QC Spoon Refusal					
13		22	M		25						
14		24	M			Dense, Brown Fine SAND (SP)	0.0				
15		24	W		30		0.0				
							0.0				
						End of Boring at 31.0 ft					
					35						
					40						

WATER LEVEL OBSERVATIONS

While Drilling ▽ 30.0 ft. Upon Completion of Drilling _____ ft.
Time After Drilling _____ _____ _____ _____
Depth to Water _____ _____ _____ _____ ▼
Depth to Cave in _____ _____ _____ _____

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

GENERAL NOTES

Start 7/17/92 End 7/17/92
Driller Layne NW Chief MB Rig B-57
Logger TJM Editor RJR/JEM
Drill Method 4 1/4" I.D. HSA

LOG OF TEST BORING

WARZYN

Project: Beloit Corporation RI/FS

Location: Rockton, Illinois

Boring No. SB10
Surface Elevation 754.4
Job No. 1526892
Sheet 1 of 1

ONE SCIENCE COURT, P.O. BOX 5385, MADISON, WI 53705 (608) 231-4747

SAMPLE No.	Type	Rec (in.)	Moist	N	Depth	VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES PID	Qu	LL	PL	P200
						Stiff, Dark Brown to Black Clayey SILT (TOPSOIL)					
1			M	42		Very Dense, Brown Fine to Coarse SAND and Fine to Coarse Rounded GRAVEL (SW/GW)	7.0	1.5			
2			M	66			5.0				
3			M	>100	5		10.0				
4			M	>100			4.0				
5			M	>100	10						
6			M	>100			0.5				
7			M	>100			0.5				
8			M	>100	15		0.4				
9			M	>100			0.2				
10			M	>100	20		0.0				
11			M	>100			0.2				
12			M	51		Stiff to Very Stiff, Red Brown SILT, Little to Some Fine to Coarse Sand, Trace to Little Fine to Coarse Rounded Gravel (ML)	0.0				
13			M	>100	25		0.5				
14			M	>100			1.2				
15			M	>100	30		7.0				
16			M	>100			0.8				
17			W	>100		Water Bearing Fine to Medium Sand Seam at 33.5 ft	0.4				
					35	End of Boring at 34.0 ft					
					40						

WATER LEVEL OBSERVATIONS

While Drilling ▽ 33.5 ft. Upon Completion of Drilling _____ ft.
Time After Drilling _____ _____ _____ _____
Depth to Water _____ _____ _____ _____ ▼
Depth to Cave in _____ _____ _____ _____

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

GENERAL NOTES

Start 7/15/92 End 7/15/92
Driller Layne NW Chief MB Rig B-57
Logger TJM Editor RJR/JEM
Drill Method 4 1/4" I.D. HSA

LOG OF TEST BORING

WARZYN

Project: Beloit Corporation RI/FS

Location: Rockton, Illinois

Boring No. SB11
Surface Elevation 748.1
Job No. 1526892
Sheet 1 of 1

ONE SCIENCE COURT, P.O. BOX 5385, MADISON, WI 53705 (608) 231-4747

SAMPLE No.	Type	Rec (in.)	Moist	N	Depth	VISUAL CLASSIFICATION and Remarks	PID	Qu	LL	PL	P200
						Stiff, Dark Brown to Black SILT, Trace to Little Clay, Trace Fine to Medium Sand (TOPSOIL)					
1		22	M			Very Dense, Brown Fine to Coarse SAND and Fine to Coarse Rounded GRAVEL, Occasional Cobble (SW/GW)	0.0				
2		21	M				0.0				
3		16	M		5		0.0				
4		16	M				0.2				
5		15	M		10		0.4				
6		12	M				0.2				
7		14	M				0.2				
8		20	M		15	Very Dense, Brown Fine to Coarse SAND, Some Fine to Coarse Rounded Gravel, Occasional Cobble (SW)	0.2				
9		19	M				0.2				
10		20	M		20		0.2				
11			M				0.4				
12			M			Dense, Brown Fine SAND (SP)	0.0				
13			W		25		0.0				
						End of Boring at 27.0 ft					
					30	* Blow counts not recorded. Used 3" split-spoon and 300 lb hammer.					
					35						
					40						

WATER LEVEL OBSERVATIONS

While Drilling ▽ 25.0 ft. Upon Completion of Drilling _____ ft.
Time After Drilling _____ _____ _____ _____
Depth to Water _____ _____ _____ _____ ▼
Depth to Cave in _____ _____ _____ _____

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

GENERAL NOTES

Start 7/16/92 End 7/16/92
Driller Layne NW Chief MB Rig B-57
Logger TJM Editor RJR/JEM
Drill Method 4 1/4" I.D. HSA

WARZYN

LOG OF TEST BORING

Project: Beloit Corporation RI/FS

Location: Rockton, Illinois

Boring No. SB12
Surface Elevation 758.8
Job No. 1526892
Sheet 1 of 1

ONE SCIENCE COURT, P.O. BOX 5385, MADISON, WI 53705 (608) 231-4747

SAMPLE No.	Type	Rec (in.)	Moist	N	Depth	VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES PID	Qu	LL	PL	P200
						Stiff, Dark Brown to Black SILT, Trace Fine to Coarse Sand and Clay (TOPSOIL)					
1			M			Mixed Dark Brown, Brown and Black Silty SAND, Trace Fine to Coarse Gravel, Occasional Clayey Zone (FILL)	0.0				
2			M				0.2				
3			M		5		0.1				
4			M				0.2				
5			M		10		0.1				
6			M				0.6				
7			M				0.2				
8			M		15	Medium Dense, Brown Silty Fine SAND (SM)	0.0				
9			M			Dense to Very Dense, Brown, Fine to Coarse Sand and Fine to Coarse Rounded GRAVEL, Occasional Cobble (SW/GW)	0.4				
10			M		20		0.0				
11			M				0.2				
12			M				0.2				
13			M		25		0.2				
14			M				0.2				
15			M		30		0.1				
16			M			Medium Dense, Brown, Fine to Medium SAND, Trace Fine Gravel (SP)	0.1				
17			W		▽		0.0				
					35	End of Boring at 35.0 ft * Blow counts not recorded. Used 3" split-spoon and 300 lb hammer.					
					40						

WATER LEVEL OBSERVATIONS

While Drilling ▽ 34.0 ft. Upon Completion of Drilling _____ ft.
Time After Drilling _____ _____ _____ _____
Depth to Water _____ _____ _____ _____ ▼
Depth to Cave in _____ _____ _____ _____

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

GENERAL NOTES

Start 7/21/92 End 7/21/92
Driller Layne NW Chief MB Rig B-57
Logger TJM Editor RJR/JEM
Drill Method 4 1/4" I.D. HSA

LOG OF TEST BORING

WARZYN

Project: Beloit Corporation RI/FS

Location: Rockton, Illinois

Boring No. SB13
Surface Elevation 757.9
Job No. 1526892
Sheet 1 of 1

ONE SCIENCE COURT, P.O. BOX 5385, MADISON, WI 53705 (608) 231-4747

SAMPLE No.	Type	Rec (in.)	Moist	N	Depth	VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES PID	Qu	LL	PL	P200
						Soft, Black SILT, Some Fine to Coarse Sand, Trace Clay (TOPSOIL)					
1		22	M			Dense, Dark Brown to Black Silty Fine SAND (Foundry Sand) (FILL)	0.0				
2		22	M				0.0				
3		24	M		5		0.0				
4		20	M				0.0				
5		21	M		10		0.0				
6		23	M				0.0				
7		20	M			Medium Dense, Brown Fine SAND (SP)	1.0				
8		19	M		15		0.0				
9		6	M			Interbedded Layers of Orange-Brown SILT, Silty Fine to Coarse SAND and Lean CLAY, Trace Fine Gravel (ML)	0.0				
10		18	M		20		0.0				
11		10	M			Very Dense, Brown Fine to Coarse SAND, Some Fine to Coarse Rounded Gravel (SW)	0.2				
12		8	M				0.0				
13		4	M		25		0.0				
14		18	M				0.0				
15		20	M		30		0.0				
16		18	M			Stiff, Brown SILT, Trace to Little Clay (ML)	0.4				
17			W				0.2				
					35	End of Boring at 35.0 ft					
					40						

WATER LEVEL OBSERVATIONS

While Drilling ▽ 33.5 ft. Upon Completion of Drilling _____ ft.
Time After Drilling _____ _____ _____ _____
Depth to Water _____ _____ _____ _____ ▼
Depth to Cave in _____ _____ _____ _____

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

GENERAL NOTES

Start 7/16/92 End 7/16/92
Driller Layne NW Chief MB Rig B-57
Logger TJM Editor RJR/JEM
Drill Method 4 1/4" I.D. HSA

LOG OF TEST BORING

WARZYN

Project: Beloit Corporation RI/FS

Location: Rockton, Illinois

Boring No. SB14
Surface Elevation 755.0
Job No. 1526892
Sheet 1 of 1

ONE SCIENCE COURT, P.O. BOX 5385, MADISON, WI 53705 (608) 231-4747

SAMPLE

No.	Type	Rec (in.)	Moist	N	Depth
1		20	M	38	
2		21	M	75	
3		15	M	< 100	5
4		13	M	< 100	
5		8	M	> 100	10
6		10	M	> 100	
7		5	M	> 100	
8		0	M	> 100	15
9		7	M	> 100	
10		10	M	74	20
11		5	M	< 100	
12		20	M	68	
13			M	93	25
14			W	45	
					30
					35
					40

VISUAL CLASSIFICATION and Remarks

6" Crushed Limestone GRAVEL

Dark Brown, Fine to Coarse SAND and GRAVEL, Occasional Silty Clay Zone (FILL)

Very Dense, Light Brown Fine to Coarse SAND and Fine to Coarse Rounded GRAVEL, Trace Silt, Occasional Cobble (SW/GW)

Very Dense, Brown Fine to Medium SAND, Trace to Little Silt (SP)

End of Boring at 29.0 ft

SOIL PROPERTIES

PID	Qu	LL	PL	P200
0.5				
0.5				
0.5				
0.0				
0.0				
0.0				
0.0				
0.0				
0.0				
0.0				
0.0				
0.0				
0.0				

WATER LEVEL OBSERVATIONS

While Drilling ▽ 28.0 ft. Upon Completion of Drilling _____ ft.
Time After Drilling _____
Depth to Water _____ ▼
Depth to Cave in _____

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

GENERAL NOTES

Start 7/14/92 End 7/14/92
Driller Layne NW Chief MB Rig B-57
Logger TJM Editor RJR/JEM
Drill Method 4 1/4" I.D. HSA

LOG OF TEST BORING

WARZYN

Project: Beloit Corporation RI/FS

Location: Rockton, Illinois

Boring No. SB15
Surface Elevation 753.6
Job No. 1526892
Sheet 1 of 1

ONE SCIENCE COURT, P.O. BOX 5385, MADISON, WI 53705 (608) 231-4747

SAMPLE / VISUAL CLASSIFICATION and Remarks / SOIL PROPERTIES

No.	Type	Rec (in.)	Moist	N	Depth	PID	Qu	LL	PL	P200
						6" Crushed Limestone GRAVEL (FILL)				
						6" Dark Brown Sandy Lean CLAY (FILL)				
1		20	M	59		Very Dense, Brown Fine to Coarse SAND and Fine to Coarse Rounded GRAVEL, Few Cobbles (SW/GW) 0.0				
2		16	M	84		0.0				
3		15	M	>100	5	0.0				
4		14	M	>100		0.0				
5			M	>100	10	0.0				
6		10	M	91		0.0				
7		6	M	>100		0.0				
8		8	M	>100	15	0.0				
9		20	M	64		Very Dense, Brown Fine to Coarse SAND, Little to Some Fine to Coarse Gravel (SW) 0.0				
10		22	M	56	20	0.0				
11		19	M	50		0.0				
12		21	M	76		Very Dense, Red-Brown SILT, Some Fine to Coarse Sand, Trace to Little Fine to Coarse Gravel (ML) 0.0				
13		23	M	83	25	0.0				
14			M	53		Occasional Thin Medium to Coarse Sand Layers 0.0				
15			W		30	0.0				
						End of Boring at 31.0 ft				
					35					
					40					

WATER LEVEL OBSERVATIONS

While Drilling ▽ 31.0 ft. Upon Completion of Drilling _____ ft.
Time After Drilling 5 min.
Depth to Water 28.5 ft ▼
Depth to Cave in

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

GENERAL NOTES

Start 7/15/92 End 7/15/92
Driller Layne NW Chief MB Rig B-57
Logger TJM Editor RJR/JEM
Drill Method 4 1/4" I.D. HSA

WARZYN

LOG OF TEST BORING

Project: Beloit Corporation RI/FS

Location: Rockton, Illinois

Boring No. SB16
Surface Elevation 753.7
Job No. 1526892
Sheet 1 of 1

ONE SCIENCE COURT, P.O. BOX 5385, MADISON, WI 53705 (608) 231-4747

SAMPLE No.	Type	Rec (in.)	Moist	N	Depth	VISUAL CLASSIFICATION and Remarks	PID	Qu	LL	PL	P200
						6" Crushed Limestone GRAVEL (FILL)					
1		20	M			Stiff, Dark Brown to Black SILT, Some Fine to Coarse Sand, Trace to Little Clay (TOPSOIL)	0.0				
2		22	M			Very Dense, Brown Fine to Coarse SAND and Fine to Coarse GRAVEL (SW/GW)	0.0				
3		20	M		5		0.0				
4		14	M				0.0				
5		16	M		10		0.0				
6		0	M	0							
7		0	M	0		No Sample-Cobble					
8		0	M	0	15	No Sample					
9		21	M				0.0				
10		19	M		20		0.0				
11		20	M			Stiff, Reddish-Brown, Fine to Coarse SAND, Some Silt, Little Fine to Coarse Gravel (SM)	0.2	1.5			
12		24	M				0.2	1.5			
13		24	W		25		0.2	1.5			
						End of Boring at 27.0 ft					
					30	* Blow counts not recorded. Used 3" split-spoon and 300 lb hammer.					
					35						
					40						

WATER LEVEL OBSERVATIONS

While Drilling ▽ 25.5 ft. Upon Completion of Drilling _____ ft.
Time After Drilling _____ _____ _____ _____
Depth to Water _____ _____ _____ _____ ▼
Depth to Cave in _____ _____ _____ _____

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

GENERAL NOTES

Start 7/16/92 End 7/16/92
Driller Layne NW Chief MB Rig B-57
Logger TJM Editor RJR/JEM
Drill Method 4 1/4" I.D. HSA

LOG OF TEST BORING

WARZYN

Project: Beloit Corporation RI/FS

Location: Rockton, Illinois

Boring No. SB17
Surface Elevation 752.0
Job No. 1526892
Sheet 1 of 1

ONE SCIENCE COURT, P.O. BOX 5385, MADISON, WI 53705 (608) 231-4747

SAMPLE No.	Type	Rec (in.)	Moist	N	Depth	VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES PID	Qu	LL	PL	P200
1			M			Stiff, Dark Brown to Black SILT, Some Fine to Coarse Sand, Trace Fine Gravel (FILL)	0.0				
2			M			Stiff, Black Silty Fine SAND (Buried TOPSOIL)	0.0				
3			M		5	Loose to Medium Dense, Orange-Brown Fine SAND (SP)	0.0				
4			M			Medium Dense, Brown Fine SAND, Little to Some Silt, Trace Clay (SM)	0.0				
5			M		10	Stiff, Orange-Brown to Gray Mottled SILT, Some Clay, Trace Fine Sand (ML)	0.0				
6			M			Very Dense, Brown, Fine to Coarse SAND and Fine to Coarse Rounded GRAVEL (SW/GW)	0.0				
7			M		15		0.0				
8			M				0.0				
9			M				0.0				
10			M		20	Very Stiff, Brown Lean CLAY, Trace to Little Fine to Coarse Sand, Trace Fine Gravel (CL)	0.0				
11			M				0.0				
12			M			Stiff, Brown Silty Fine to Coarse SAND, Little to Some Fine to Coarse Gravel, Trace Clay (SM)	0.0				
13			W		25		0.0				
						End of Boring at 27.0 ft					
					30						
					35						
					40						

WATER LEVEL OBSERVATIONS

While Drilling ▽ 25.0 ft. Upon Completion of Drilling _____ ft.
Time After Drilling _____ _____ _____ _____
Depth to Water _____ _____ _____ _____ ▼
Depth to Cave in _____ _____ _____ _____

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

GENERAL NOTES

Start 7/28/92 End 7/28/92
Driller Layne NW Chief MB Rig B-57
Logger TJM Editor RJR/JEM
Drill Method 4 1/4" I.D. HSA

LOG OF TEST BORING

WARZYN

Project: Beloit Corporation RI/FS

Location: Rockton, Illinois

Boring No. SB18
Surface Elevation 739.7
Job No. 1526892
Sheet 1 of 1

ONE SCIENCE COURT, P.O. BOX 5385, MADISON, WI 53705 (608) 231-4747

SAMPLE No.	Type	Rec (in.)	Moist	N	Depth	VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES PID	Qu	LL	PL	P200
1		6	M			Gray-Brown Silty Fine to Coarse SAND, Some Fine to Coarse Rounded Gravel (FILL)	0.0				
2			M				0.0				
3			M		5		0.4				
4			M				0.1				
5			M		10		0.0				
6			W		▽	Loose, Gray-Brown to Black, Fine to Medium SAND, Little to Some Silt (SP-SM)	0.0				
					15	End of Boring at 13.0 ft * Blow counts not recorded. Used 3" split-spoon and 300 lb hammer.					
					20						
					25						
					30						
					35						
					40						

WATER LEVEL OBSERVATIONS

While Drilling ▽ 12.0 ft. Upon Completion of Drilling _____ ft.
Time After Drilling _____ _____ _____ _____
Depth to Water _____ _____ _____ _____ ▼
Depth to Cave in _____ _____ _____ _____

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

GENERAL NOTES

Start 7/22/92 End 7/22/92
Driller Layne NW Chief MB Rig B-57
Logger TJM Editor RJR/JEM
Drill Method 4 1/4" I.D. HSA

LOG OF TEST BORING

WARZYN

Project: Beloit Corporation RI/FS

Location: Rockton, Illinois

Boring No. SB19
Surface Elevation 758.9
Job No. 1526892
Sheet 1 of 1

ONE SCIENCE COURT, P.O. BOX 5385, MADISON, WI 53705 (608) 231-4747

SAMPLE / VISUAL CLASSIFICATION and Remarks / SOIL PROPERTIES

No.	Type	Rec (in.)	Moist	N	Depth	Visual Classification and Remarks	PID	Qu	LL	PL	P200
						Soft, Dark Brown to Black, Silty Fine to Medium SAND, Trace Fine Gravel (FILL)					
1			M				0.0				
2			M				0.0				
					5	Medium Brown, Silty Fine to Medium SAND (SM)					
3			M				0.0				
						Dense to Very Dense, Fine to Coarse SAND and Fine to Coarse Rounded GRAVEL, Trace Silt (SW/GW)					
4			M				0.2				
5			M		10		0.2				
6			M				0.0				
7			M				1.5				
8			M		15		0.4				
9			M				0.0				
10			M		20		0.0				
11			M				0.5				
12			M				0.0				
13			M		25		0.4				
14			M				0.0				
15			M		30		0.0				
16			W			Medium, Red-Brown Fine to Coarse SAND, Some Silt, Trace to Little Fine to Coarse Gravel (SM)	0.0				
					35	End of Boring at 33.0 ft					
					40						

WATER LEVEL OBSERVATIONS

While Drilling ▽ 32.0 ft. Upon Completion of Drilling _____ ft.
Time After Drilling _____ _____ _____ _____
Depth to Water _____ _____ _____ _____ ▼
Depth to Cave in _____ _____ _____ _____

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

GENERAL NOTES

Start 7/22/92 End 7/22/92
Driller Layne NW Chief MB Rig B-57
Logger TJM Editor RJR/JEM
Drill Method 4 1/4" I.D. HSA

WARZYN

LOG OF TEST BORING

Project: Beloit Corporation RI/FS

Location: Rockton, Illinois

Boring No. SB20
Surface Elevation 754.0
Job No. 1526892
Sheet 1 of 1

ONE SCIENCE COURT, P.O. BOX 5385, MADISON, WI 53705 (608) 231-4747

SAMPLE					VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
No.	Type	Rec (in.)	Moist	N	Depth		PID	Qu	LL	PL	P200
1		20	M			Dark Brown CLAY (FILL)	0.0				
2		18	M			Loose, Light Brown, Fine Silty SAND, Some Gravel (FILL)	0.0				
					5	End of Boring at 4.5 ft Refusal at 4.5 ft (Metal), Abandoned Hole					
					10						
					15						
					20						
					25						
					30						
					35						
					40						

WATER LEVEL OBSERVATIONS

While Drilling ▽ ft. Upon Completion of Drilling ft.
Time After Drilling
Depth to Water ▼
Depth to Cave in

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

GENERAL NOTES

Start 7/23/92 End 7/23/92
Driller Layne NW Chief MB Rig B-57
Logger TK Editor RJR/JEM
Drill Method 4 1/4" I.D. HSA

LOG OF TEST BORING

WARZYN

Project: Beloit Corporation RI/FS

Location: Rockton, Illinois

Boring No. SB21
Surface Elevation 754.0
Job No. 1526892
Sheet 1 of 1

ONE SCIENCE COURT, P.O. BOX 5385, MADISON, WI 53705 (608) 231-4747

SAMPLE No.	Rec (in.)	Moist	N	Depth	VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES PID	Qu	LL	PL	P200
1	2	M			Gravel (FILL) (1 VOC Jar Only)	0.0				
2	20	M			Light Brown, Fine to Medium SAND, Some Gravel (SP) (Organic Odor 3-5 ft)	0.0				
3	18	M		5		0.0				
4	20	M				0.0				
	0	M		10	No Recovery	0.0				
5	14	M				0.0				
6	14	M				0.0				
	0	M		15	Recovery=6-7 Pieces of Gravel, Couldn't Fill Jars Light Brown, Fine to Coarse GRAVEL, Some Sand, Trace Silt (SM/GM)					
7	8	M				0.0				
8	14	M		20		0.0				
9	20	M			8" Light Brown Fine to Coarse SAND, Some Gravel (SP)	0.0				
10	10	M			Light Brown, Fine to Coarse GRAVEL, Some Sand, Trace Silt (GM)	0.0				
					8" Dense, Dark Brown SILT (ML)					
11	20	W		25	8" Light Brown, Fine to Coarse GRAVEL, Some Sand, Trace Silt (GM)	0.0				
12	18	W			Dense, Brown-Orange Clayey SILT, Little Gravel, Trace Sand (ML)	0.0				
13	20	W		30	Light Brown, Fine to Coarse SAND, Some Gravel, Trace Silt (SP)	0.0				
					Drilled Additional 5 ft Without Sampling. Groundwater Sample Collected for Field GC Screening.					
				35						
					End of Boring at 36.0 ft					
				40						

WATER LEVEL OBSERVATIONS

While Drilling ▽ 26.0 ft. Upon Completion of Drilling _____ ft.
Time After Drilling 1 hr.
Depth to Water 26.2 ▼
Depth to Cave in

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

GENERAL NOTES

Start 7/23/92 End 7/23/92
Driller Layne NW Chief MB Rig B-57
Logger TK Editor RJR/JEM
Drill Method 4 1/4" I.D. HSA

D6

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY SOIL BORING LOGS AND WELL INSTALLATION DETAILS

Illinois Environmental Protection Agency

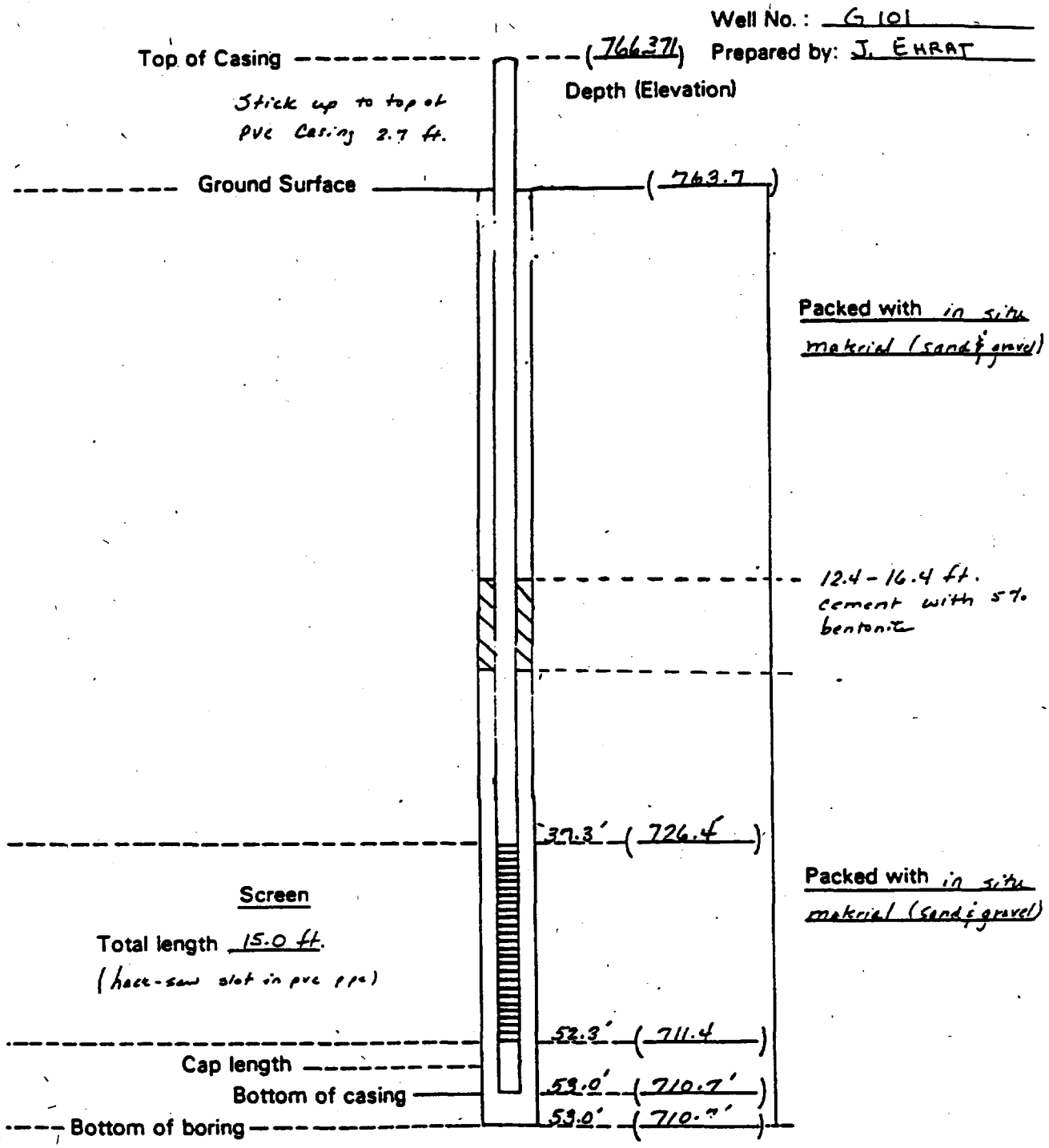
BORING NO. B-1	WELL NO. B-101	GROUNDLEVEL ELEV. 763.7	PAGE 1 OF 1
COUNTY Winnebago	SITE NO. 2010350	DATE START 5/15/84 FINISH 5/15/84	ANNULUS FILL MATERIAL ABOVE PACKING Cuttings
SITE Rockton/Sterian			
BORING LOCATION 1/4 mi S of intersection 75 + Route 2, W side of Road way		TIME START 7:30 AM FINISH 11:30 AM	PACKING Concrete w/ 5% granular bentonite
DRILLING EQUIPMENT CME-55	SIZE 3¼ in ID	TYPE Hollow Stem Auger	
COMPLETION DEPTH 53.0'	BEDROCK DEPTH —	TOP OF CASING Elevation 766.371	SCREEN Slough
WELL CASING TYPE AND QUANTITY 2" PVC Pipe w/ screw joints (teflon taped joints) (hack saw screen)			PERSONNEL a- JME b- DMT c- KWB
SCREEN INTERVAL TYPE AND QUANTITY 15.0' of screened PVC : screened interval 37.3'-52.3'			

ELEV.	DESCRIPTION	DEPTH	Sample No.	Sampler Type	Sample Recovery Ft.	Penetrometer Strength	N Value Blows	REMARKS
	0.0-2.4 Silt - brown to black, scattered sand, med. grained, very weathered, friable, sl. damp roots.	0						
	@ 1.9-2.4 damp	1			3.6/5.0			
	2.4-2.5 Sand - lt brown to pink, sl. damp fine to med grained, friable, small amount of Fe staining	2						
	@ 2.4-2.45 Quartzite - rose in color, v. angular, small to med	3						
	2.5-3.4 Sandy Gravel - lt. brown, sl. damp, friable, Gravel - rounded and angular Sand - sub-rounded, sub-ang.	4						
	@ 2.9 sl. moist, Fe stain	5		CS				Augered from 5.0 - 53.0
	5.0-9.5 Gravelly Sand - brown, somewhat bedded. Gravel - rounded, various sizes Sand - moist, fine, med & large grain sub-angular - sub-rounded.	10						
	9.5-15.2 Sand & Gravel - brown							
	@ 15.2-25.0 moist							
	@ 25.0-45.0 very moist	15						
	42.0 ▼							
	End of Boring @ 53.0	53						
	55.1' of PVC							
	15' of screen							
	2.8' of stick up							

IL 532-1112

MONITOR WELL CONSTRUCTION

Location: Rockton Study
Site No.: _____
Well No.: G 101
Prepared by: J. Ehrat



Pipe: Type and quantity 2 in. I.D. sched 40 pvc w/ screw joints (teflon taped), 15.0 ft. hack saw screen. Total 55.1' of PVC

Illinois Environmental Protection Agency

BORING NO	WELL NO.	GROUNDLEVEL ELEV.	PAGE	OF
B-2	A-102	766.9	1	1

COUNTY	SITE NO.	DATE START	DATE FINISH	ANNULUS FILL MATERIAL
Winnebago	2C103502	5/15/84	5/15/84	ABOVE PACKING: Cuttings

SITE: Rockton / Soterian

BORING LOCATION: 200 yds N of intersection 75 + Route 2 E side of Roadway

DRILLING EQUIPMENT	SIZE	TYPE	TIME START	TIME FINISH	PACKING
CME-55	3½ in ID	Hollow Stem Auger	2:00 PM	4:00 PM	Concrete w/ 5% granular bentonite

COMPLETION DEPTH	BEDROCK DEPTH	TOP OF CASING ELEV.	SCREEN
49.0	—	769.621	slough

WELL CASING TYPE AND QUANTITY: 2" PVC Pipe w/ screw joints (teflon taped joints) (hack saw screen)

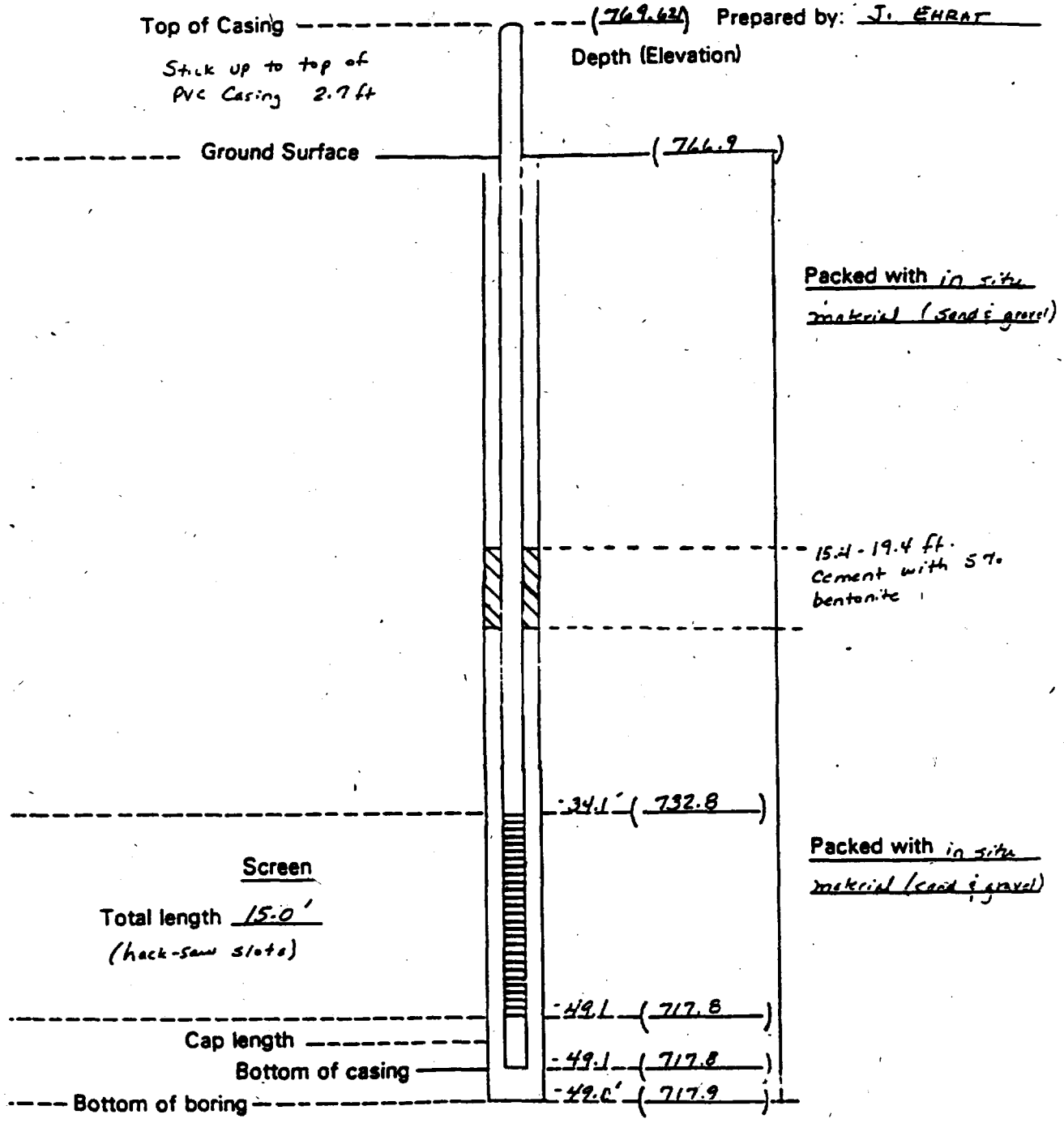
SCREEN INTERVAL TYPE AND QUANTITY: 15.0' of screened PVC ; screened interval 34.1' - 49.1

PERSONNEL: L. JMG; D. DMT; H. KWB

ELEV	DESCRIPTION	DEPTH	Sample No.	Sampler Type	Sample Recovery Ft.	Penetrometer (Strength)	N Value (Blows)	REMARKS
766.9	0.0 - 2.2 Silt - brown to black, damp, friable, sand grains found scattered through sample, roots	0						
	2.2 - 3.6 Sand - reddish brown, med. grained, damp, v uniform.	1			3.6/5.0			Augered from 5.0 - 49.0
	5.0 - 6.0 Clayey Sand - brown, v. moist.	2						
	6.0 - 12.5 Sand - brown, v. uniform med. grained, v moist	3						
	12.5 - 49.0 Sand & Gravel - brown sub-angular, - sub-rounded moist. 39.5' ▼	4						
		5		CS				
717.9	End of Boring 49.0'	49						
	51.8' of PVC							
	15.0' of screen							
	2.7' stick up							

MONITOR WELL CONSTRUCTION

Location: Rockton Study
Site No.:
Well No.: G102
Prepared by: J. Ehrat



Pipe: Type and quantity 2 in. I.D. PVC pipe with screw joints (teflon tape)
15.0 ft. hack saw slots, total 51.8 ft. pvc casing.

Illinois Environmental Protection Agency — **Field Boring Log** — Page 1 of 1

Site File No.: 2010350003 County: Winnebago Boring No. B-2 Monitor Well No. G103S

Site File Name: Rockton/Watts Ave Groundwater Contam. Surface Elev. 746.4 Completion Depth 25.75'

Fed. ID. No. _____ Auger Depth 25.75' Rotary Depth NA

Quadrangle: South Beloit Sec. 12+13 T. 46N. R. 1E. Date: Start 5-14-86 Finish 5-15-86

Boring Location: 910 Watts near R.R. tracks

Drilling Equipment: CME 55 3¼" I.D. hollow stem auger

Personnel: G - S. Otto; D - D. Tolan; H - J. Morse; H -

Elev.	DESCRIPTION	Depth in feet	Sample No.	Sample Type	Sample Recovery	Penetrometer	N Values (Blows)	OVA (ppm) readings	REMARKS
746.4	0-2.3 ft. Black silt (topsoil)								Description from cuttings
	2.3-5.0 Brown med. to fine sand								
	5.0-10.0 Brown sand and gravel ranging in size from sand to 4", poorly sorted.	5, 10							
	10.0-12.0 Brown gravelly sand coarseness decreases with depth	15							
	15.0-25 Light brown silty Sand with some gravel up to 1" in size, trace clay.	20							Water at 21.0 ft.
720.6		25							
	Boring completed at 25.8 ft.	30							

Illinois Environmental Protection Agency — **Monitor Well Construction**

County: Winnebago — Boring No.: B-2

Site File Name: Rockton/Watts Ave. Groundwater Contam. — Monitor Well No.: G 103 S

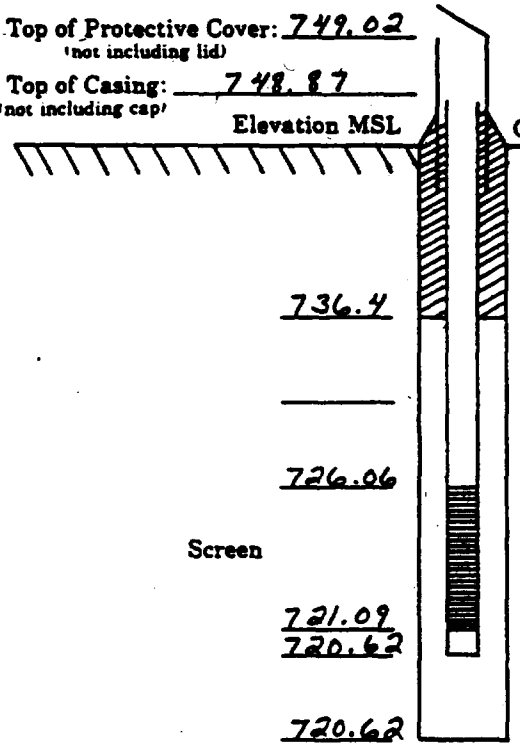
Site File No.: LPC 2010350003 — Prepared By: S. Otto

Monitor Well Location 910 Watts near railroad tracks

Top of Protective Cover: 749.02 (not including lid)

Top of Casing: 748.87 (not including cap)

Casing Stick-up: 2.5 ft.



Elevation MSL	Depth in feet below ground surface	Backfill (type and quantity)
Ground Surface		cement with 5% Bentonite
736.4	10 ft.	
726.06	20.3 ft.	
Screen		In situ material (sand and gravel)
721.09	25 ft.	
720.62	25.75	
720.62	25.75	

Casing Type and Size: Type 316 stainless steel sched. 5 with sched. 40 threads

Screen Type and Size: Type 316 stainless steel 0.01 slot 2" I.D. (D)

Casing Field Measurements:

bottom of screen 0.47
top of screen 5.44
1st joint 15.61
10.02
5.17
total 30.80
− 2.55 cut off
28.25 ft.

Total Length of Casing 28.25 ft.

Plug (type) 316 stainless

Cap (type)

Protective Cover (type and size) 4" x 5' with locking cap and padlock (D)

teflon tape was used on all joints.

Illinois Environmental Protection Agency — **Field Boring Log** — Page 1 of 1

Site File No.: 2010350003 County Winnebago Boring No. B-6 Monitor Well No. G103D

Site File Name Rockton/Watts Ave. Groundwater Contam. Surface Elev. 746.1 Completion Depth 49'

Fed. ID. No. Auger Depth 49' Rotary Depth NA

Quadrangle South Beloit Sec. 12+13 T. 46N., R. 1E. Date: Start 6-26-86 Finish 6-26-86

Boring Location 910 Watts near R.R. tracks

Drilling Equipment CME55 3¼" I.D. hollow stem auger

Personnel: G - S. Otto; D - D. Tolan; H - J. Morse; H -

Elev.	DESCRIPTION	Depth in feet	Sample No.	Sample Type	Sample Recovery	Penetrometer	N Values (Blows)	OVA or (HNU) readings	REMARKS
746.1	0-3ft. Black sandy silt (v.f. sand) top soil								Description from cuttings
	3-5ft. Dark brown silty Sand v.f. grain	5							
	5-10ft. Gravel ranging from ½" to 3" in size, well rounded.	10							
	10-18ft. Light brown gravelly Sand, coarse to v. coarse, gravel up to ½" in size, well rounded, poorly sorted.	15							
	18-20ft. Light brown Sand with some gravel up to ¼" in size, med. grain sand.	20							
	20-22ft. Light brown sandy Gravel up to 2" in size, well rounded.	25							
	22-35ft Light brown Sand med. to coarse grain, some gravel, some clay.	30							
	35-43ft. Light pinkish brown sandy Clay with some gravel.	35							
	43-49ft. Light yellow brown sandy Clay very wet.	40							
697.1		45							
	Boring Complete at 49ft.	50							
	Water level after 24hrs., 22.56 ft from ground surface								

Illinois Environmental Protection Agency **Monitor Well Construction**

County: Winnebago Boring No.: B-6

Site File Name: Rockton/Watts Ave. Groundwater Contam. Monitor Well No.: 6-103 D

Site File No.: LPC 2010350003 Prepared By: S. Otto

Monitor Well Location 910 Watts near railroad tracks

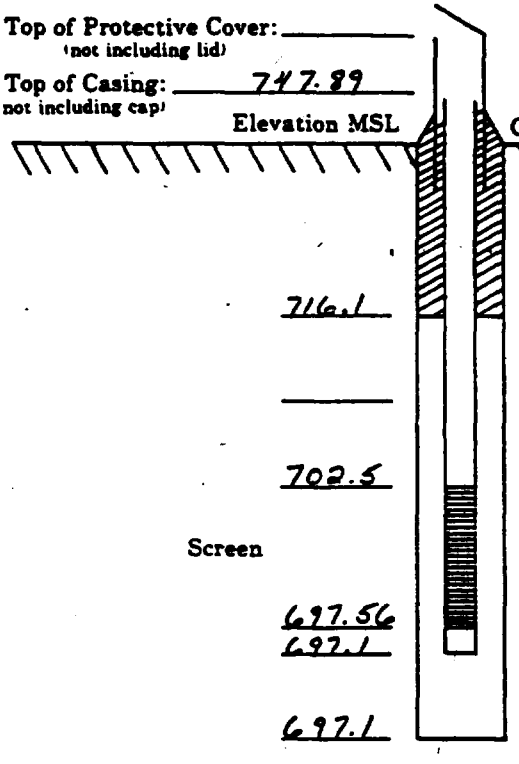
Top of Protective Cover: _____
(not including lid)

Top of Casing: 747.89
(not including cap)

Elevation MSL

Casing Stick-up: 1.8 ft.

Ground Surface



	Depth in feet below ground surface	Backfill (type and quantity)
		cement with 5% bentonite
716.1	30 ft.	
702.5	43.6	
Screen		In situ material (sand + gravel)
697.56	49.5	
697.1	49.0	
697.1	49.0	

Casing Type and Size: 316 stainless steel sched. 5 with sched. 40 threads 2" ID

Screen Type and Size: 316 stainless steel 0.01 slot 2" ID (D)

Casing Field Measurements:

bottom of screen	0.46
top of screen	5.44
1st joint	5.62
	15.62
	10.01
	10.00
	9.99
	5.00
	5.17
	50.79'

Total Length of Casing 50.79 ft.

Plug (type) 316 stainless

Cap (type) _____

Protective Cover (type and size) 4" x 5' with locking cap and padlock (D)

teflon tape was used on all joints

Illinois Environmental Protection Agency — **Field Boring Log** — Page 1 of 1

Site File No.: 2010350003 County Winnebago Boring No. B-3 Monitor Well No. G104

Site File Name Rockton/Watts Ave. Groundwater Contam. Surface Elev. 741.7 Completion Depth 25'

Fed. ID. No. Auger Depth 25' Rotary Depth NA

Quadrangle South Beloit Sec. 12+13 T. 46N., R. 1E. Date: Start 5-21-86 Finish 5-21-86

Boring Location East side of Trull Property

Drilling Equipment CME 55 3¼" I.D. hollow stem auger

Personnel: G - S. Otto; D - D. Tolan; H - J. Morse; H -

Elev. 741.7	DESCRIPTION	Depth in feet	Sample No.	Sample Type	Sample Recovery	Penetrometer	N Values (Blows)	OVA or HNU readings	REMARKS
	0-1ft. Black silt (top soil)								Description from cuttings.
	1-4ft. Gravel with some sand up to 3" in size, well rounded, poorly sorted.	5							
	4-10ft. increasing amounts of sand, fewer pebbles	10							
	10-20ft. Gravelly Sand (≈30% gravel) grain size decreasing with depth.	15							
	20-25ft. Sand med. to coarse grain with some silt, wet.	20							Water at 20 ft.
716.7	Boring Completed at 25ft.	25							
	Water level after 3hrs. 16.72 ft. from ground surface								

Illinois Environmental Protection Agency **Monitor Well Construction**

County: Winnebago Boring No.: B-3

Site File Name: Rockton/Watts Ave. Groundwater Contam. Monitor Well No.: G-104

Site File No.: LPC 2010350003 Prepared By: S. Otto

Monitor Well Location East side of Trull property

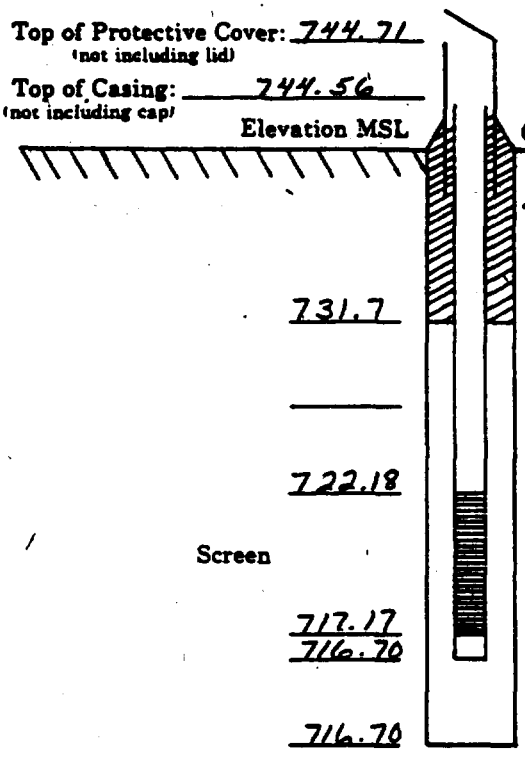
Top of Protective Cover: 744.71
(not including lid)

Top of Casing: 744.56
(not including cap)

Elevation MSL

Casing Stick-up: 2.83 ft.

Ground Surface



Elevation MSL	Depth in feet below ground surface	Backfill (type and quantity)
		cement with 5% bentonite
731.7	10 ft.	
722.18	19.55	
Screen		In situ material (sand + gravel
717.17	24.56	
716.70	25.03	
716.70	25.03	

Casing Type and Size: 316 stainless steel sched 5 with sched. 40 threads 2" I.D.

Screen Type and Size: 316 stainless steel 0.01 slot 2" I.D. (D)

Casing Field Measurements:

bottom of screen 0.47
top of screen 5.48
1st joint 5.65
10.01
10.01
2.19
Total 27.86 ft.

Total Length of Casing 27.86 ft.

Plug (type) 316 stainless

Cap (type)

Protective Cover (type and size) 4" x 5' with locking cap and padlock (D)

teflon tape was used on all joints.

Illinois Environmental Protection Agency — **Field Boring Log** — Page 1 of 1

Site File No.: 2010350003 County: Winnebago Boring No. B-7 Monitor Well No. G107

Site File Name: Rockton/Watts Ave. Groundwater Contam. Surface Elev. _____ Completion Depth 49'

Fed. ID. No. _____ Auger Depth 49' Rotary Depth NA

Quadrangle: South Beloit Sec. 12+13 T. 46N., R. 1E Date: Start 7-16-86 Finish 7-16-86

Boring Location: 2226 Blackhawk Blvd.

Drilling Equipment: CME 55 3¼" I.D. hollow stem auger

Personnel: G - S. Otto / J. Morse; D - K. Besie; H - T. Murphy; H -

Elev.	DESCRIPTION	Depth in feet	Sample No	Sample Type	Sample Recovery	Penetrometer	N Values (Blows)	OVA or LINI readings	REMARKS
	0-3 ft. Dark brown changing to a reddish brown at 1 ft. Sand med. grain								Description from cuttings
	3-8 ft. Sandy Gravel, gravel up to 4" in size, rounded to well rounded, poorly sorted.	5							
	8-12 ft. Light brown gravelly Sand, gravel up to 1" in size, well rounded.	10							
	12-13 ft. Sandy Gravel, gravel up to 3" in size, well rounded, poorly sorted.	15							
	13-23 ft. Light brown gravelly Sand, med. to v. coarse grain, ≈30% gravel up to 1" in size.	20							
	23-31 ft. Light brown Sand with some gravel, coarse to v. coarse grain, poorly sorted, gravel is well rounded and up to ½" in size.	25							
		30							Driller Notes: Harder to drill at 30-31 ft.
	31-49 ft. Light brown sandy Gravel up to 2" in size, poorly sorted, well rounded.	35							
		40							
		45							Water at 45 ft.
	Boring Completed at 49 ft.	50							
	Water level after 24 hrs. 38.7 ft. from ground surface.								

Illinois Environmental Protection Agency **Monitor Well Construction**

County: Winnebago Boring No.: B-7

Site File Name: Rockton/Watts Ave. Groundwater Contam. Monitor Well No.: G-107

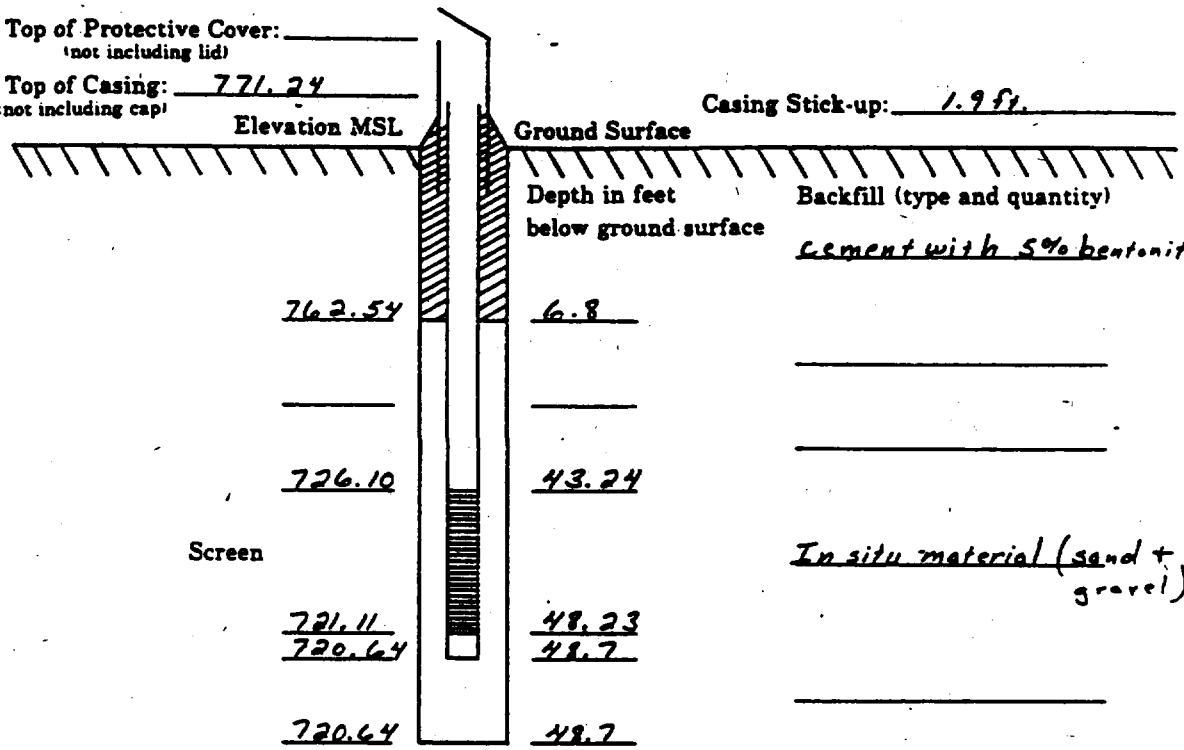
Site File No.: LPC 2010350003 Prepared By: S. Otto

Monitor Well Location 2226 Blackhawk Blvd. in back yard

Top of Protective Cover: _____
(not including lid)

Top of Casing: 771.24
(not including cap)

Casing Stick-up: 1.9 ft.



Elevation MSL	Depth in feet below ground surface	Backfill (type and quantity)
		cement with 5% bentonite
762.54	6.8	
726.10	43.24	
		In situ material (sand + gravel)
721.11	48.23	
720.64	48.7	
720.64	48.7	

Casing Type and Size: 316 stainless steel sched. 5 with sched. 40 threads 2" I.D.

Screen Type and Size: 316 stainless steel 0.01 slot 2" I.D. (D)

Casing Field Measurements:

bottom of screen 0.47
top of screen 5.46
1st joint 5.62
10.02
9.90
10.02
10.00
10.02
55.58

55.58
- 4.98 cut off
50.60 ft.

Total Length of Casing 50.60 ft

Plug (type) 316 stainless

Cap (type) _____

Protective Cover (type and size) 4" x 5' with locking cap and padlock (D)

teflon tape was used on all joints.

Illinois Environmental Protection Agency — **Field Boring Log** — Page 1 of 1

Site File No.: 2010350003 County Winnebago Boring No. B-8 Monitor Well No. G108

Site File Name Rockton/Watts Ave. Groundwater Contam. Surface Elev. 754.0 Completion Depth 40ft

Fed. ID. No. _____ Auger Depth 40' Rotary Depth NA

Quadrangle South Beloit Sec. 12+13 T. 46 N., R. 1 E. Date: Start 3-4-87 Finish 3-4-87

Boring Location Village Green Subdivision, aprox. 700' north of Adams St. + 300' east of Blackhawk

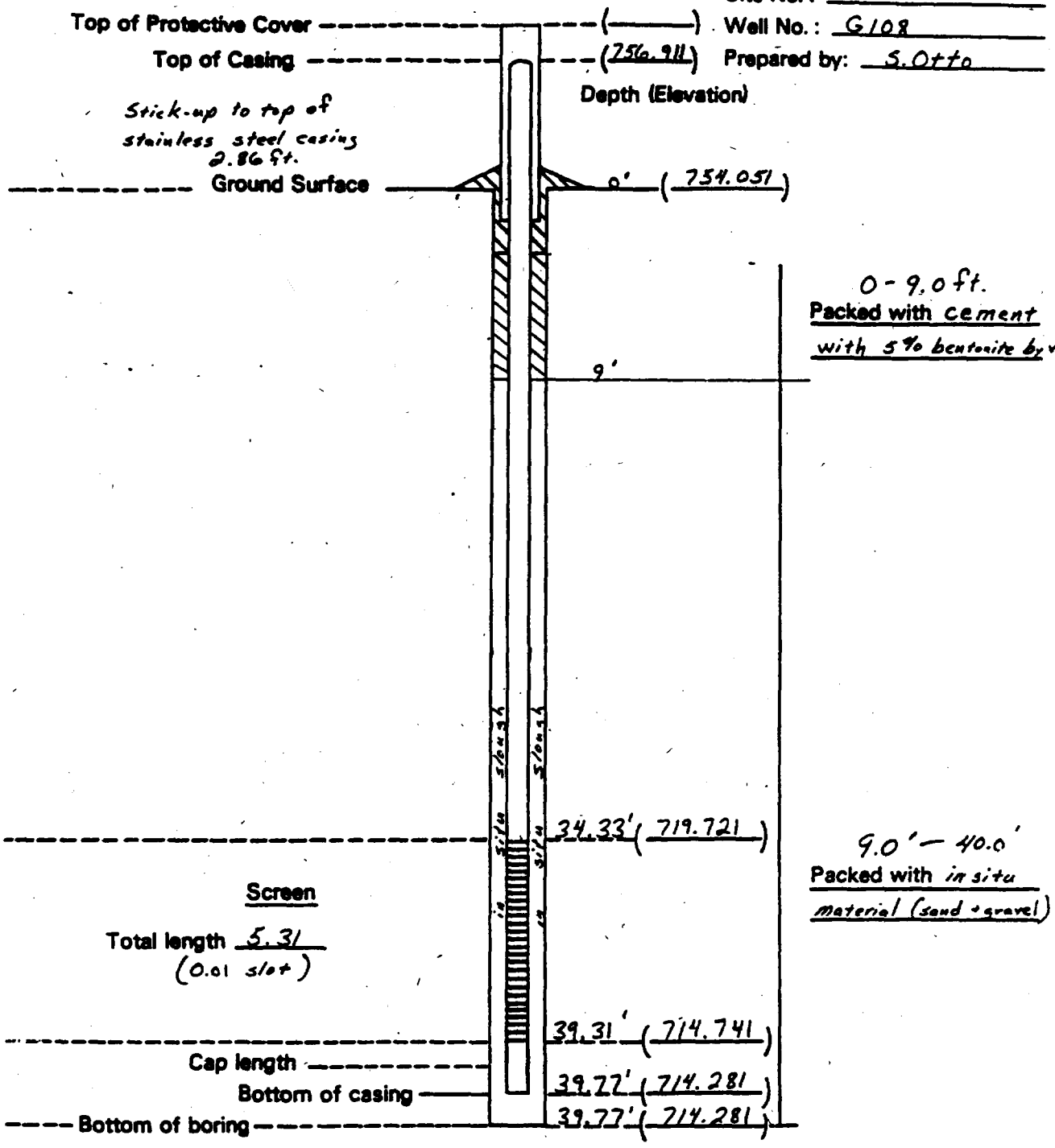
Drilling Equipment CME 55 3¼" I.D. hollow stem auger

Personnel: G - S. Otto; D - D. Tolan; H - T. Murphy; H - K. Rogers

Elev.	DESCRIPTION	Depth in feet	Sample No.	Sample Type	Sample Recovery	Penetrometer	N Values (Blows)	OVA or HNU readings	REMARKS
	0-1.5 Black clayey sandy Silt 1.5-13 ft. Lt. brown sandy Gravel ranging from ½" to 4" in size, rounded to well rounded, poorly sorted. 13.-30 ft Lt. brown gravelly Sand, coarse to very coarse grain, gravel ranges in size from ¼" to 1", rounded to well rounded. At 20 ft. becomes more sand and less gravel. 30-40 ft. Lt. brown Sand med. to coarse grain, well sorted.	5 10 15 20 25 30 35 40							Description from cuttings Drill rig chatter at 1.5 ft. At 30 ft. Stopped drilling for 15 min. - No water. Water at 35 ft.
	Boring Completed at 40 ft. Water levels: Upon completion 33.3 ft. from ground surface After 17 hrs. 33.3 ft. from ground surface								

MONITOR WELL CONSTRUCTION

Location: Rockton Study
Site No.:
Well No.: G108
Prepared by: S. Otto



Pipe: Type and quantity Type 316 stainless steel sched. 5, environmental thread sched. 40 0.01 slot, all 2" I.D.; 3-10' risers, 1-5' riser, 1-2' riser, 1-5' screen, 1 plug,

IL 532-1982 1-4"x5' protective cover Total length of casing 42.63 ft.

Illinois Environmental Protection Agency

BORING NO.	WELL NO.	GROUNDLEVEL ELEV.	PAGE	OF
B-57	G108 S	754.051	1	1

COUNTY: Winnebago
SITE NO.:
SITE: Rockton Area Groundwater Study
BORING LOCATION: Village Green Subdivision, approx. 700' N of Adams Sts + 300' E of Blackhawk
DRILLING EQUIPMENT: CME 55
SIZE: 3¼" ID
TYPE: Hollow stem auger with knock-out plate.
COMPLETION DEPTH: 40 ft.
BEDROCK DEPTH: —
TOP OF CASING: Elev. 756.911

DATE: START 3-4-87 FINISH 3-4-87
TIME: START 2:05 P.M. FINISH 4:15 P.M.

ANNULUS FILL MATERIAL
ABOVE PACKING: See monitor well
PACKING: Construction
SCREEN:

WELL CASING TYPE AND QUANTITY: Type 316 stainless steel sched. 5
Environmental threads, sched. 40
SCREEN INTERVAL TYPE AND QUANTITY: 34.33 – 39.31 ft. depth Stainless steel wire wound 0.01 slot

PERSONNEL:
G- S. Otto
D- D. Tolan
H- T. Murphy
K. Rogers

ELEV.	DESCRIPTION	DEPTH in feet	SAMPLES: Sample No.	Sampler Type	Sample Recovery Ft.	Penetrometer (Strength)	N Value (Blows)	REMARKS
	Description from cuttings	0						
	0-1.5 Black clayey sandy Silt							
	1.5-13.0 Lt. Brown sandy Gravel ranging from ½" to 4" in size, rounded to well rounded poorly sorted.	5						Drill rig chatter at 1.5 feet
		10						
	13.0-30.0 Lt. brown gravelly Sand coarse to very coarse grain, gravel ranges in size from ¼" to 1", rounded to well rounded. At 20 ft. becomes more sand less gravel.	15						
		20						
		25						
	30.0-40.0 Lt. brown Sand med. to coarse grain, well sorted.	30						At 30 ft. left hole for 15 min.—No water
		35						H_2O at 35 ft.
	Boring Completed at 40.0 ft.	40						
	Water level upon completion: 33.35 ft. from ground level							
	Water level after 17.0 hrs 33.37 ft. from ground level							

Illinois Environmental Protection Agency **Monitor Well Construction**

County: Winnebago Boring No.: B-8

Site File Name: Rockton/Watts Ave. Groundwater Contam. Monitor Well No.: G-108s

Site File No.: LPC 2010350003 Prepared By: S. Otto

Monitor Well Location Village Green Subdivision

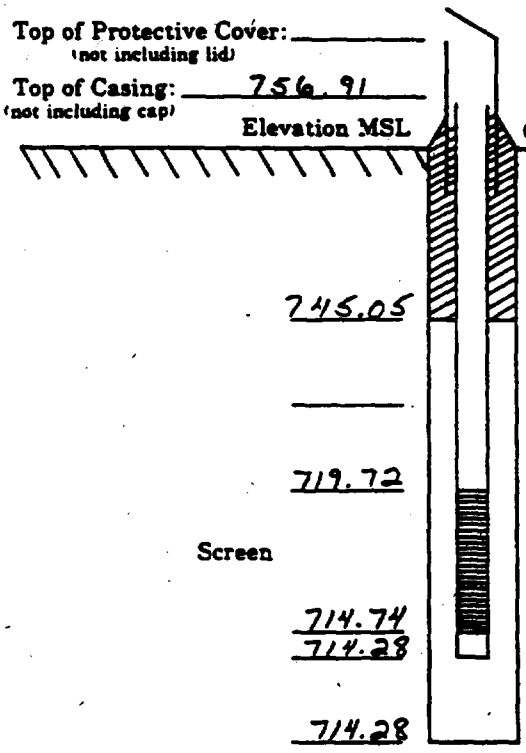
Top of Protective Cover: _____
(not including lid)

Top of Casing: 756.91
(not including cap)

Elevation MSL

Casing Stick-up: 2.86 ft.

Ground Surface



	Depth in feet below ground surface	Backfill (type and quantity)
		cement with 5% bentonite
745.05	9.0 ft	
719.72	34.33	
Screen		In situ material (sand + gravel
714.74	39.31	
714.28	39.77	
714.28	39.77	

Casing Type and Size: 316 stainless steel sched. 5 with sched. 40 threads 2" I.D.

Screen Type and Size: 316 stainless steel 0.01 slot 2" I.D. (D)

Casing Field Measurements:

bottom of screen 0.46
top of screen 5.44
1st joint 5.60
15.60
10.0
10.02
5.0
2.01
42.63 ft.

Total Length of Casing 42.63 ft.

Plug (type) 316 stainless

Cap (type) _____

Protective Cover (type and size) 4"x5' with locking cap and padlock (D)

teflon tape was used on all casing threads

Illinois Environmental Protection Agency — **Field Boring Log** — Page 1 of 1

Site File No.: 2010350003 County Winnebago Boring No. B-11 Monitor Well No. _____

Site File Name Rockton/Watts Ave. Groundwater Contam. Surface Elev. _____ Completion Depth 85 ft.

Fed. ID. No. _____ Auger Depth 85 ft. Rotary Depth _____

Quadrangle South Beloit Sec. 13 T. 46N. R. 1E. Date: Start 3-31-87 Finish 3-31-87

Boring Location Village Green Subdivision ≈700' N. of Adams St. and 300' E. of Rockhawk Blvd.

Drilling Equipment CME 55 3¼" I.D. hollow stem auger

Personnel: G - S. Otto; D - D. Tolan; H - T. Murphy; H -

Elev.	DESCRIPTION	Depth in feet	Sample No.	Sample Type	Sample Recovery	Penetrometer	N Values (Blows)	OVA or HNU readings	REMARKS
	0-40 ft. same as B-8	0 → 40							
	40-78 ft. Lt. brown Sand, med. grain, well rounded, well sorted.	45, 50, 55, 60, 65, 70, 75							At 60 ft. could hear water cascading into augers.
	78-85 ft. Pinkish gray silty Clay with some pebbles, very hard.	80, 85							
	Boring Completed at 85 ft.								
	Water Levels Upon completion 34 ft. inside hollow stem augers.								
	Had to abort well installation due to 10 ft. of sand inside hollow stem augers. Upon removal of augers knock-out plate was intact. Theorized that sand had sifted into hollow stem augers between auger joints.								

Illinois Environmental Protection Agency

BORING NO.	WELL NO.	GROUNDLEVEL ELEV.	PAGE	OF
B-11	G108 D	753.841	1	1

COUNTY: Winnebago
SITE NO.: L2010350003
SITE: Rockton / Watts Ave. Groundwater Contamination
BORING LOCATION: Village Green Subdivision 2700' N of Adams and 300' E. of
DRILLING EQUIPMENT: CME 55
SIZE: 3¼" I.D. hollow stem auger with knock-out plate
TYPE: Blackhawk

DATE — START: 4/1/87 FINISH: 4/1/87
TIME — START: 8:30A. FINISH: 10:44A.

ANNULUS FILL MATERIAL — ABOVE PACKING: See monitor well
PACKING: construction
SCREEN:

COMPLETION DEPTH: 72.0 ft.
BEDROCK DEPTH: —
TOP OF CASING ELEV.: 756.361

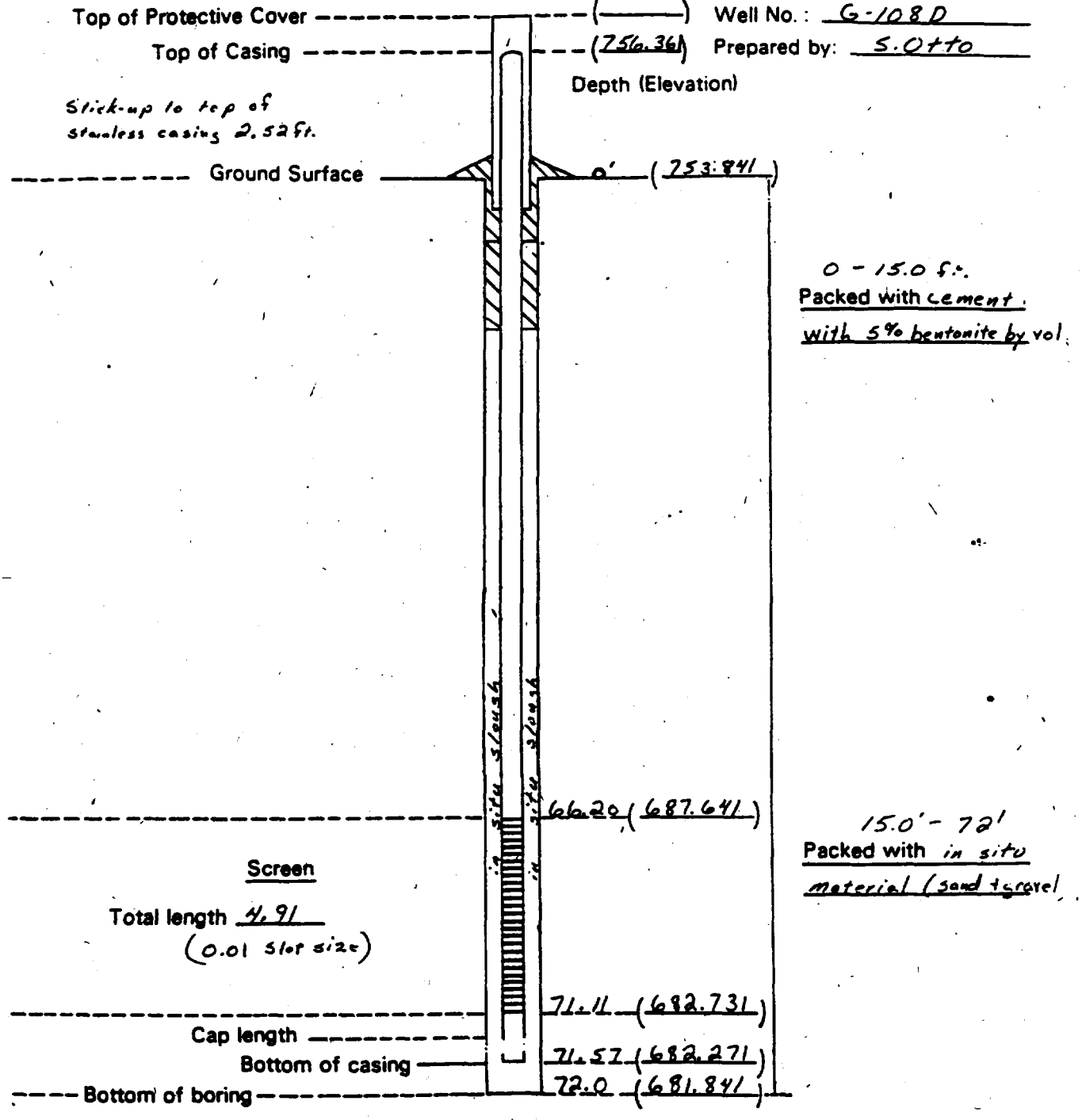
WELL CASING TYPE AND QUANTITY: Type 316 stainless steel sched. 5 with environmental threads sched. 40
SCREEN INTERVAL TYPE AND QUANTITY:

PERSONNEL: G. S.Otto
D.
H.

ELEV	DESCRIPTION	DEPTH in feet	Sample No.	Sampler Type	Sample Recovery Ft.	Penetrometer (Strength)	N Value (Blows)	REMARKS
753.841	0-72 ft. Same as B-10							
		70						At 70 ft. Driller notes more dificult to drill
681.841	Boring Completed at 72 ft.							
		75						
	Used O rings on auger joints which Kept the sand and water out.							
	Upon removal of the augers; lead auger had a brown Silt covering the teath.							
	Water level upon completion 36.13 from top of stainless casing.							

MONITOR WELL CONSTRUCTION

Location: Rockton Study
Site No.: L201035 0003
Well No.: G-108D
Prepared by: S. Otto



Pipe: Type and quantity Type 316 stainless steel sched. 5 with environmental threads sched. 40. all 2" I.D. 7-10' risers, 1-5' screen 0.01 slot 1-cap (PVC), 1-plug 1-4'x5' protective cover Total length of casing 75.87' - 1.78 cut off = 74.09 ft of casing

Illinois Environmental Protection Agency **Field Boring Log** Page 1 of 1

Site File No.: 2010350003 County Winnebago Boring No. B-12 Monitor Well No. G-108D

Site File Name Rockton/Watts Ave. Groundwater Contam Surface Elev. 753.84 Completion Depth 72 ft.

Fed. ID. No. Auger Depth 72 ft Rotary Depth NA

Quadrangle South Beloit Sec. 13 T. 46N. R. 1E. Date: Start 4-1-87 Finish 4-1-87

Boring Location Village Green Subdivision ≈700' N. of Adams St. and 300' E of Blackhawk Blvd.

Drilling Equipment CME 55 3¼" I.D. hollow stem auger

SAMPLES: Sample No | Sample Type | Sample Recovery | Penetrometer | N Values (Blows) | OVA or HNU readings

Personnel: G - S. Otto; D - D. Tolan; H - T. Murphy; H -

Elev.	DESCRIPTION	Depth in feet	REMARKS
	0-72 ft. Same as B-11	70	
	Boring Completed at 72 ft.	75	At 72 ft. driller notes more difficult to drill
	Water Level Upon completion 36.1 ft. from top of stainless casing		
	Note: Used O rings on auger joints, this kept the sand and water out of the hollow stem augers while drilling Upon removal of augers, lead auger had a brown silt covering teeth.		

Illinois Environmental Protection Agency — **Monitor Well Construction**

County: Winnebago — Boring No.: B-12

Site File Name: Rockton/Watts Ave. Groundwater Contam. — Monitor Well No.: G-108D

Site File No.: LPC 2010350003 — Prepared By: S. Otto

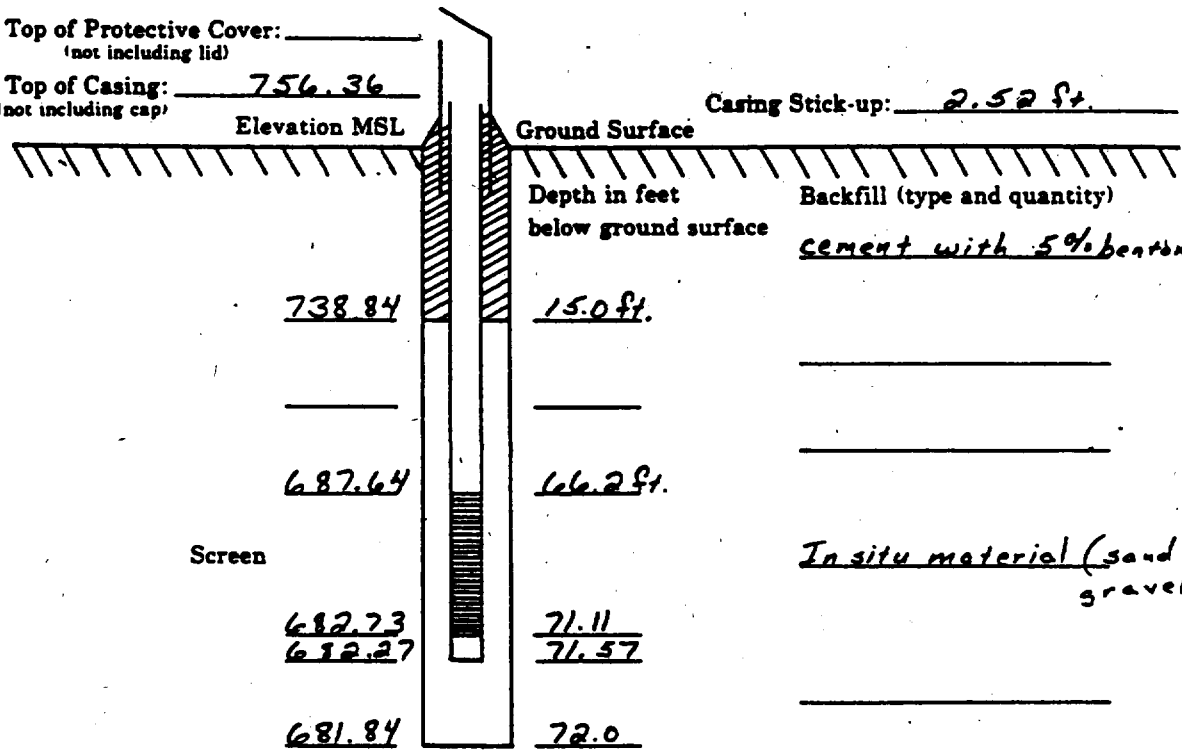
Monitor Well Location: Village Green Subdivision

Top of Protective Cover: _____ (not including lid)

Top of Casing: 756.36 (not including cap) — Elevation MSL

Casing Stick-up: 2.52 ft.

Ground Surface



	Depth in feet below ground surface	Backfill (type and quantity)
		cement with 5% bentonite
738.84	15.0 ft.	
687.64	66.2 ft.	
Screen		In situ material (sand + gravel)
682.73	71.11	
682.27	71.57	
681.84	72.0	

Casing Type and Size: 316 stainless steel sched. 5 with sched. 40 threads 2" I.D.

Screen Type and Size: 316 stainless steel 0.01 slot 2" I.D. (D)

Casing Field Measurements:

bottom of screen 0.46
top of screen 5.37
1st joint 5.55
15.58
10.02
10.02
10.03
10.03 10.17
10.02

Total Length of Casing 74.09 ft.

Plug (type) 316 stainless

Cap (type) _____

Protective Cover (type and size) 4"x5' with locking cap and padlock

teflon tape was used on all casing threads.

Illinois Environmental Protection Agency — **Field Boring Log** — Page 1 of 1

Site File No.: 2010350003 County Winnebago Boring No. B-7 Monitor Well No. G-109

Site File Name Rockton/Watts Ave. Groundwater Contam. Surface Elev. _____ Completion Depth 18 ft.

Fed. ID. No. _____ Auger Depth 18.0 ft. Rotary Depth NA

Quadrangle South Beloit Sec. 12+13 T. 46 N., R. 1 E. Date: Start 3-11-87 Finish 3-11-87

Boring Location Trull property SW of G104

Drilling Equipment CME 55 3¼" I.D. hollow stem auger

Personnel: G - S. Otto; D - D. Tolan; H - T. Murphy; H -

Elev.	DESCRIPTION	Depth in feet	Sample No	Sample Type	Sample Recovery	Penetrometer	N Values (Blows)	OVA or HNU readings	REMARKS
	0-2 ft. Sandy clayey Silt	0							Description from cuttings
	2-10 ft. Lt. brown sandy Gravel, well rounded, 1" to 4" in size, poorly sorted.	5							Rig chatter at 2 ft.
	10-18 ft. Lt. brown gravelly Sand, coarse to very coarse grain, gravel is rounded to well rounded, poorly sorted	10							
		15							
	Boring Completed at 18 ft.	20							
	Water Levels Upon completion 12.9 ft. from ground level. On 3-12-87 at 10:22 A.M. 12.9 ft. from ground level.								

Illinois Environmental Protection Agency **Monitor Well Construction**

County: Winnebago Boring No.: B-10

Site File Name: Rockton/Watts Ave. Groundwater Contam. Monitor Well No.: G-110

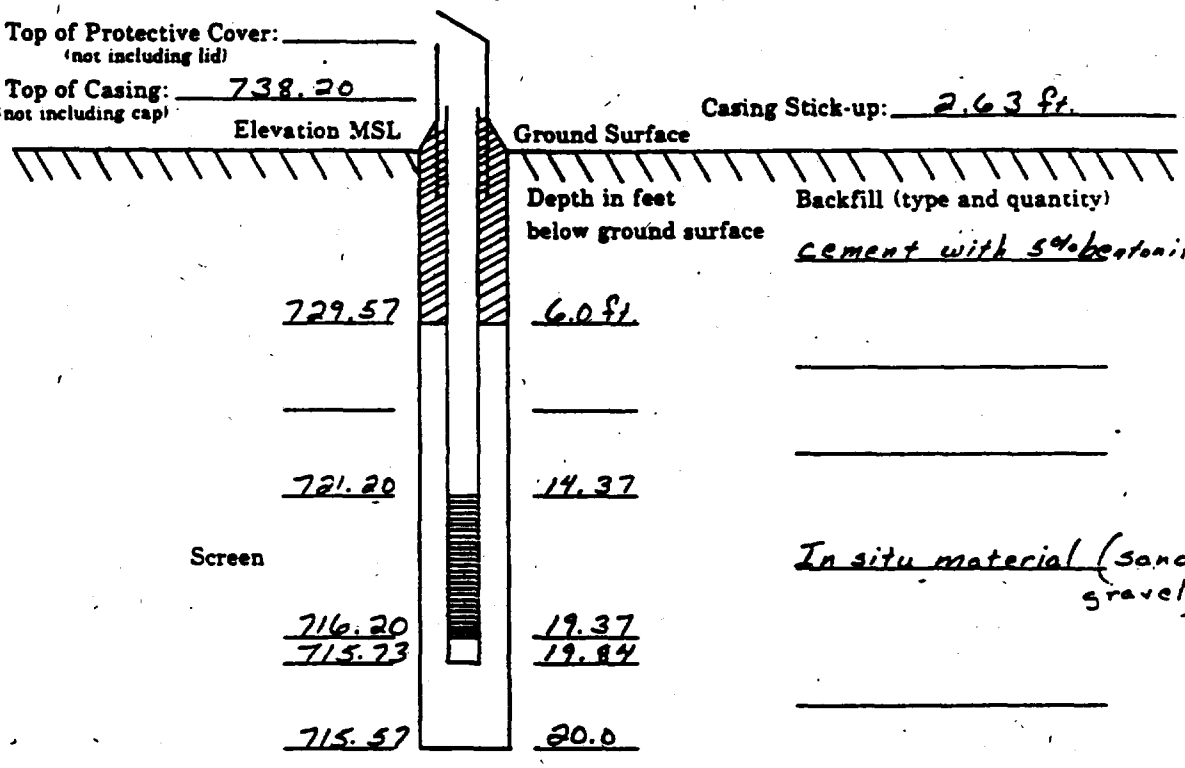
Site File No.: LPC 2010350003 Prepared By: S. Otto

Monitor Well Location Trull property SW of G-109

Top of Protective Cover: _____
(not including lid)

Top of Casing: 738.20
(not including cap)

Casing Stick-up: 2.63 ft.



Casing Type and Size: 316 stainless steel sched. 5 with sched. 40 threads 2" I.D.

Screen Type and Size: 316 stainless steel 0.01 slot 2" ID (D)

Casing Field Measurements:

bottom of screen 0.47
top of screen 5.47
1st joint 5.80
15.81
17.82
22.47

Total Length of Casing 22.47 ft.

Plug (type) 316 stainless

Cap (type) _____

Protective Cover (type and size) 4"x5' with locking cap and padlock

teflon tape was used on all casing threads

Illinois Environmental Protection Agency — **Field Boring Log** — Page 1 of 1

Site File No.: 2010350003 County Winnebago Boring No. B-1 Monitor Well No. P-1

Site File Name Rockton/Watts Ave. Groundwater Contam. Surface Elev. 732.5' Completion Depth 35'

Fed. ID. No. _____ Auger Depth 35' Rotary Depth NA

Quadrangle South Beloit Sec. 12+13 T. 46 N., R. 1 E. Date: Start 5-7-86 Finish 5-8-86

Boring Location Trull Property

Drilling Equipment CME 55 3¼" I.D. hollow stem auger

Personnel: G - S. Otto; D - D. Tolan; H - J. Morse; H -

Elev.	DESCRIPTION	Depth in feet	Sample No	Sample Type	Sample Recovery	Penetrometer	N Values (Blows)	OVA or HNU readings	REMARKS
732.5	0-1 ft. Dark brown silty soil 1-2.5 ft. Dark brown silt with some sand 2.5-20.0 ft. Light brown sandy gravel, ranging from coarse sand to 4" in size, poorly sorted. At 20 ft. sandy gravel becomes less coarse ranging in size from sand to 2", poorly sorted.	5 10 15 20 25 30							Description from cuttings
697.5	Boring Completed at 35' Water levels Upon completion 8.3' from ground surface After 24 hrs. 7.45' from ground surface	35							Had to flush sand and gravel to install piezometer

Illinois Environmental Protection Agency — **Monitor Well Construction**

County: Winnebago — Boring No.: B-9

Site File Name: Rockton/Watts Ave. Groundwater Contam. — Monitor Well No.: G-109

Site File No.: LPC 2010350003 — Prepared By: S. Otto

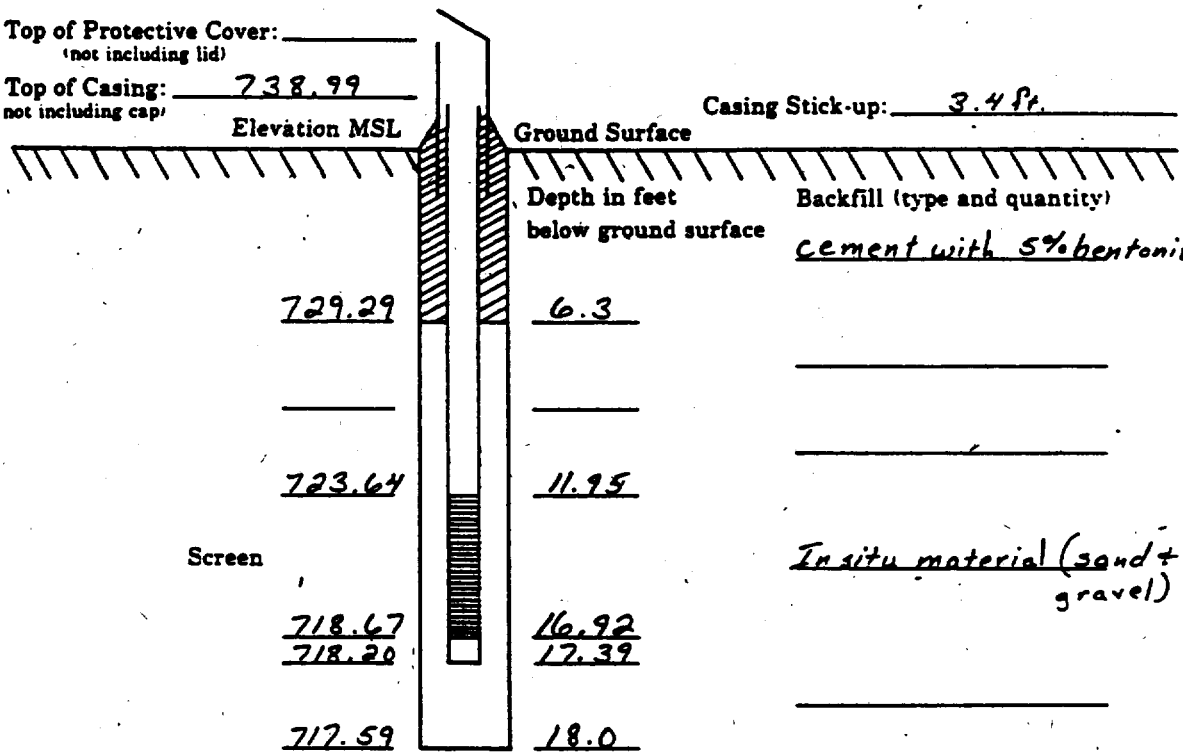
Monitor Well Location: Trull property sw of G104

Top of Protective Cover: _____ (not including lid)

Top of Casing: 738.99 (not including cap) — Elevation MSL

Casing Stick-up: 3.4 ft.

Ground Surface



Elevation MSL	Depth in feet below ground surface	Backfill (type and quantity)
		cement with 5% bentonite
729.29	6.3	
723.64	11.95	
Screen		In situ material (sand + gravel)
718.67	16.92	
718.20	17.39	
717.59	18.0	

Casing Type and Size: 316 stainless steel sched. 5 with sched. 40 threads 2" I.D.

Screen Type and Size: 316 stainless steel 0.01 slot 2" I.D. (D)

Casing Field Measurements:

bottom of screen 0.47
top of screen 5.44
1st joint 5.60
15.63
20.79

Total Length of Casing 20.79 ft.

Plug (type) 316 stainless

Cap (type) _____

Protective Cover (type and size) 4"x5' with locking cap and padlock

teflon tape was used on all casing threads

Illinois Environmental Protection Agency — **Field Boring Log** — Page 1 of 1

Site File No.: 2010350003 County Winnebago Boring No. B-10 Monitor Well No. G-110

Site File Name Rockton / Watts Ave. Groundwater Cont. Surface Elev. Completion Depth 20ft

Fed. ID. No. Auger Depth 20ft. Rotary Depth NA

Quadrangle South Beloit Sec. 13 T. 46N. R. 1E. Date: Start 3-11-87 Finish 3-11-87

Boring Location Trull property SW of G-109

Drilling Equipment CME 55 3¼" I.D. hollow stem auger

Personnel: G - S. Otto; D - D. Tolan; H - T. Murphy; H -

Elev.	DESCRIPTION	Depth in feet	Sample No.	Sample Type	Sample Recovery	Penetrometer	N Values (Blows)	OVA or HNU readings	REMARKS
	0-2 ft. Black clayey Silt 2-7 ft. Lt. brown sandy Gravel, well rounded, poorly sorted, 1" to 4" in size. 7-20 ft. Lt. brown gravelly Sand, coarse to very coarse grain, gravel is ¼" to 1" in size, rounded to well rounded, poorly sorted.	0 5 10 15 20							Description from cuttings Rig chatter at 2 ft.
	Boring Completed at 20 ft.								

Water Levels

Upon completion 13.5 ft. from ground surface

On 3-12-87 at 9:15 A.M. 13.6 ft. from ground surface

Illinois Environmental Protection Agency **Monitor Well Construction**

County: Winnebago Boring No.: B-1

Site File Name: Rockton/Watts Ave. Groundwater Contam. Monitor Well No.: P-1 (Piezometer)

Site File No.: LPC 2010350003 Prepared By: S. Otto

Monitor Well Location Trull Property

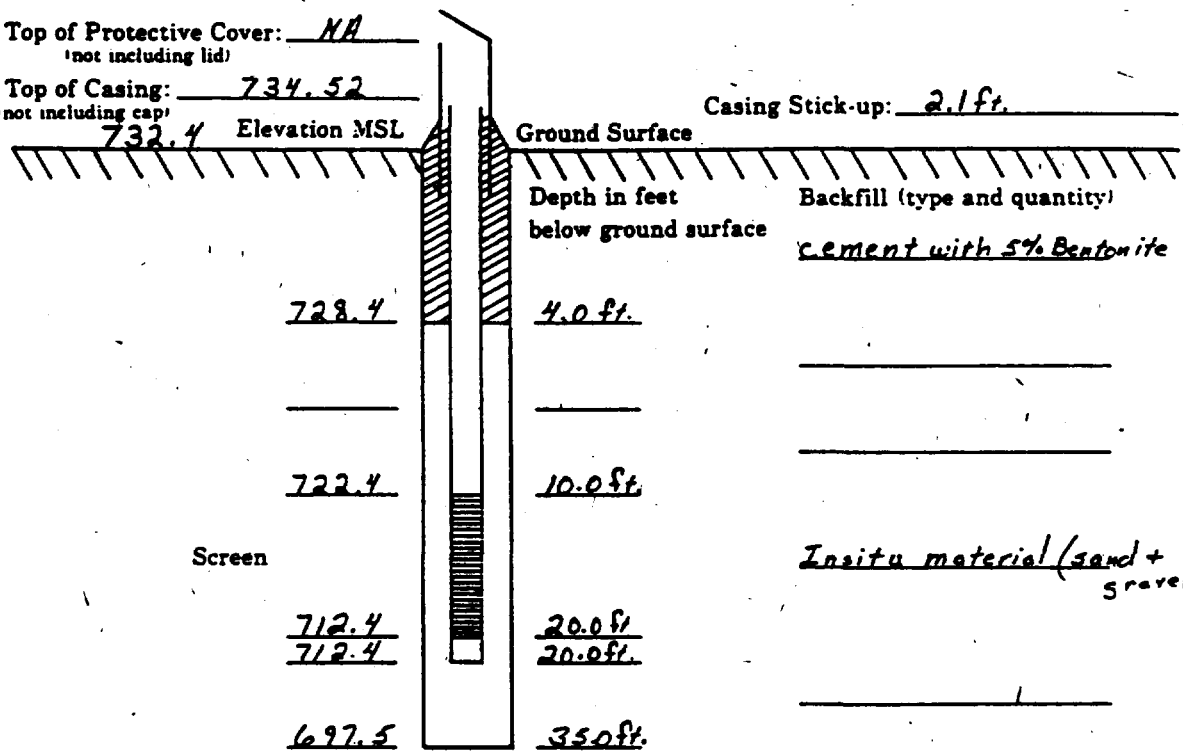
Top of Protective Cover: NA
(not including lid)

Top of Casing: 734.52
(not including cap)

Casing Stick-up: 2.1 ft.

732.4 Elevation MSL

Ground Surface



	Depth in feet below ground surface	Backfill (type and quantity)
		cement with 5% Bentonite
728.4	4.0 ft.	
722.4	10.0 ft.	
Screen		Insitu material (sand + gravel)
712.4	20.0 ft	
712.4	20.0 ft.	
697.5	35.0 ft.	

Casing Type and Size: PVC 2" I.D. sched. 40 glue joints

Screen Type and Size: PVC hack saw bottom 10 ft.

Casing Field Measurements:

bottom of screen

top of screen

1st joint

Total Length of Casing 22.05 ft

Plug (type) PVC

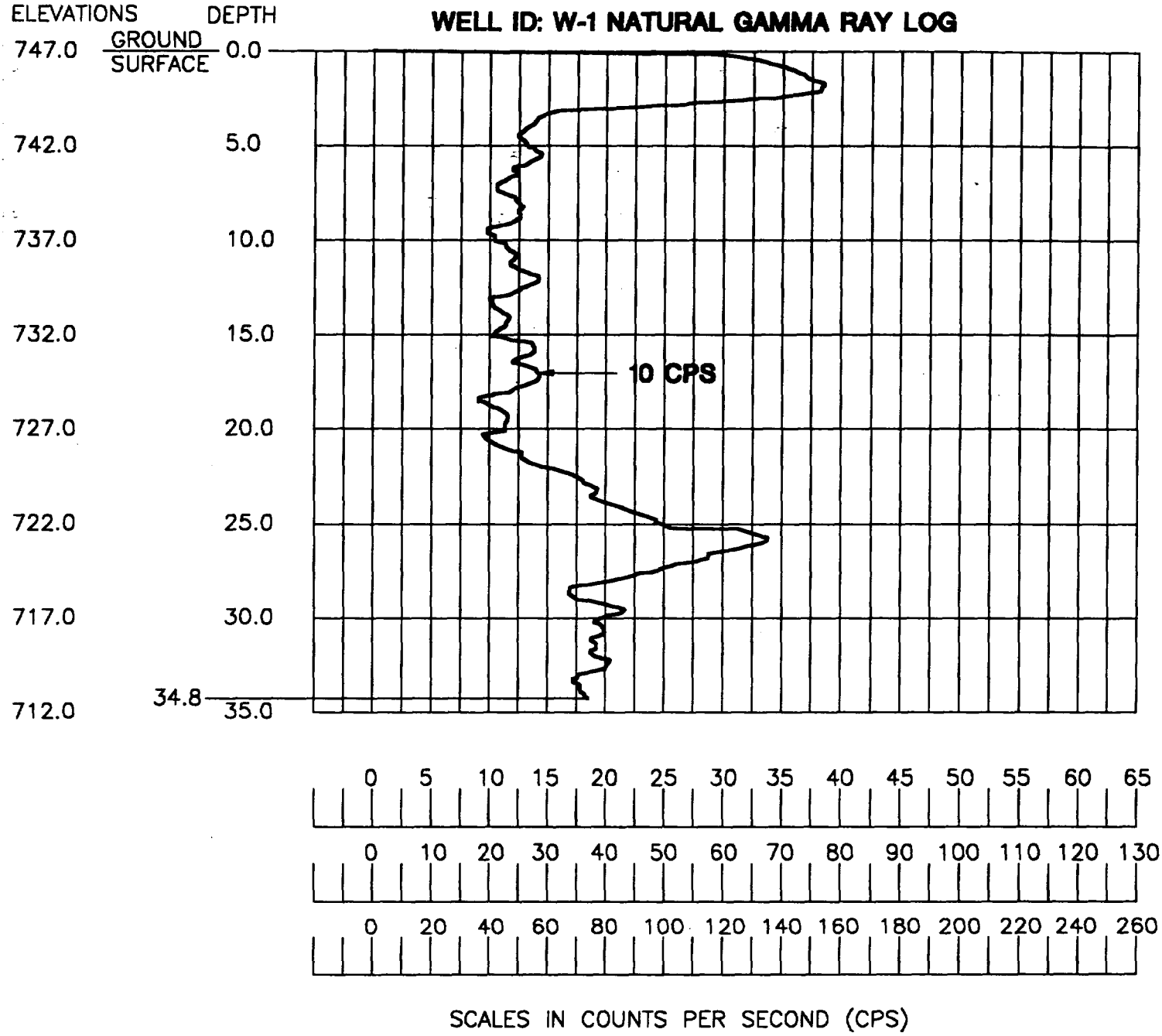
Cap (type) PVC

Protective Cover (type and size) NA

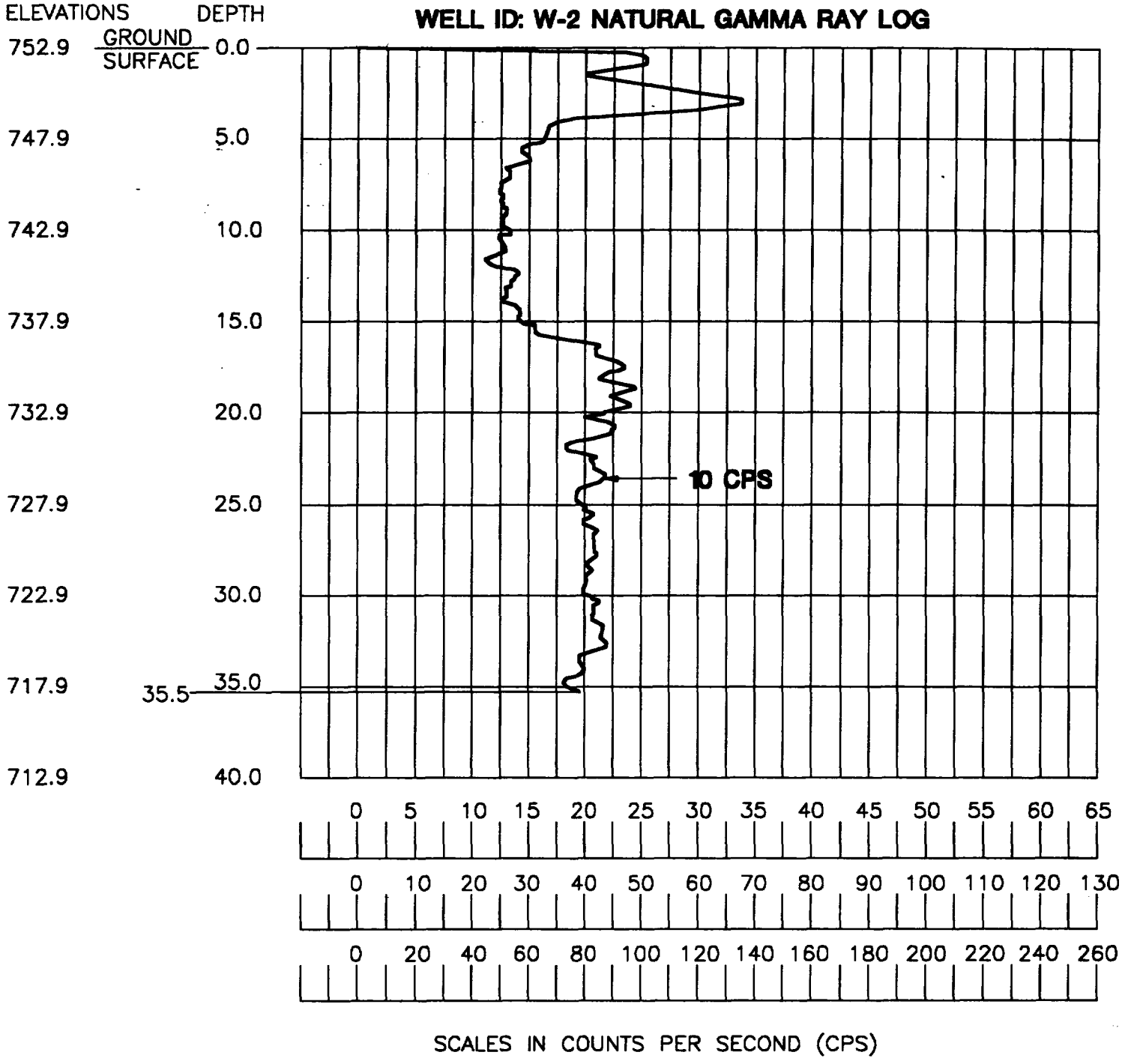
E

NATURAL GAMMA RAY LOGS

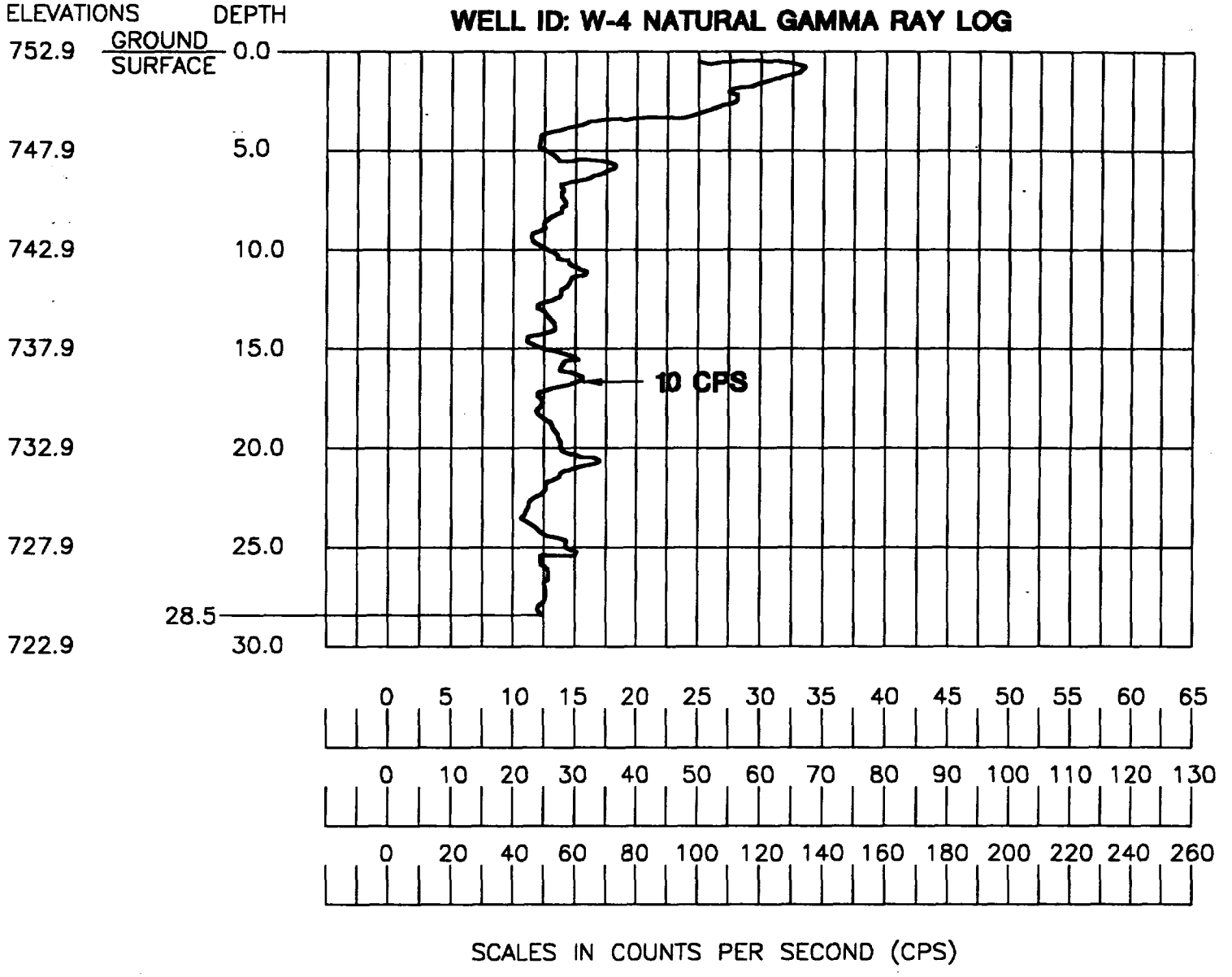
WELL ID: W-1 NATURAL GAMMA RAY LOG



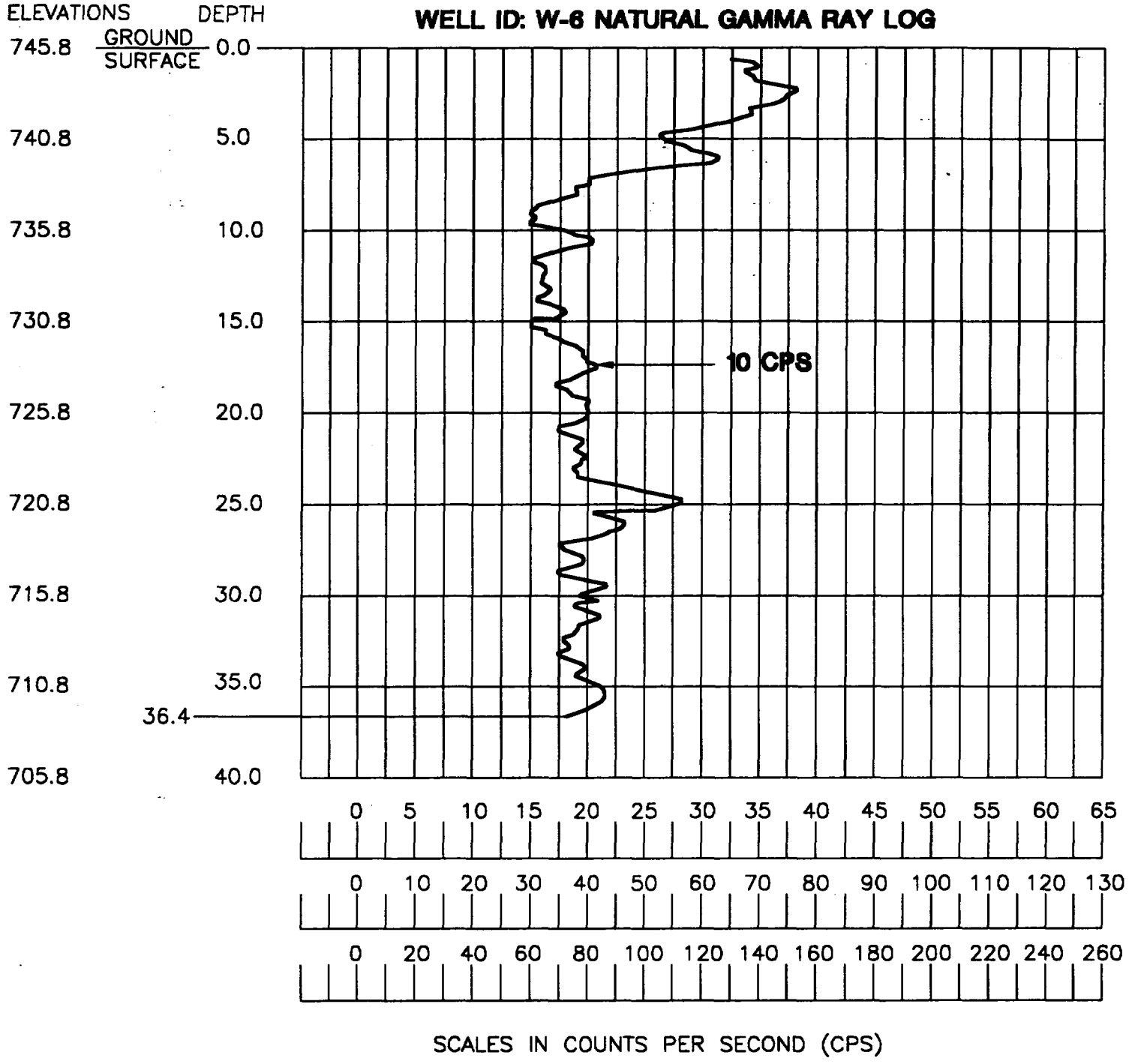
WELL ID: W-2 NATURAL GAMMA RAY LOG



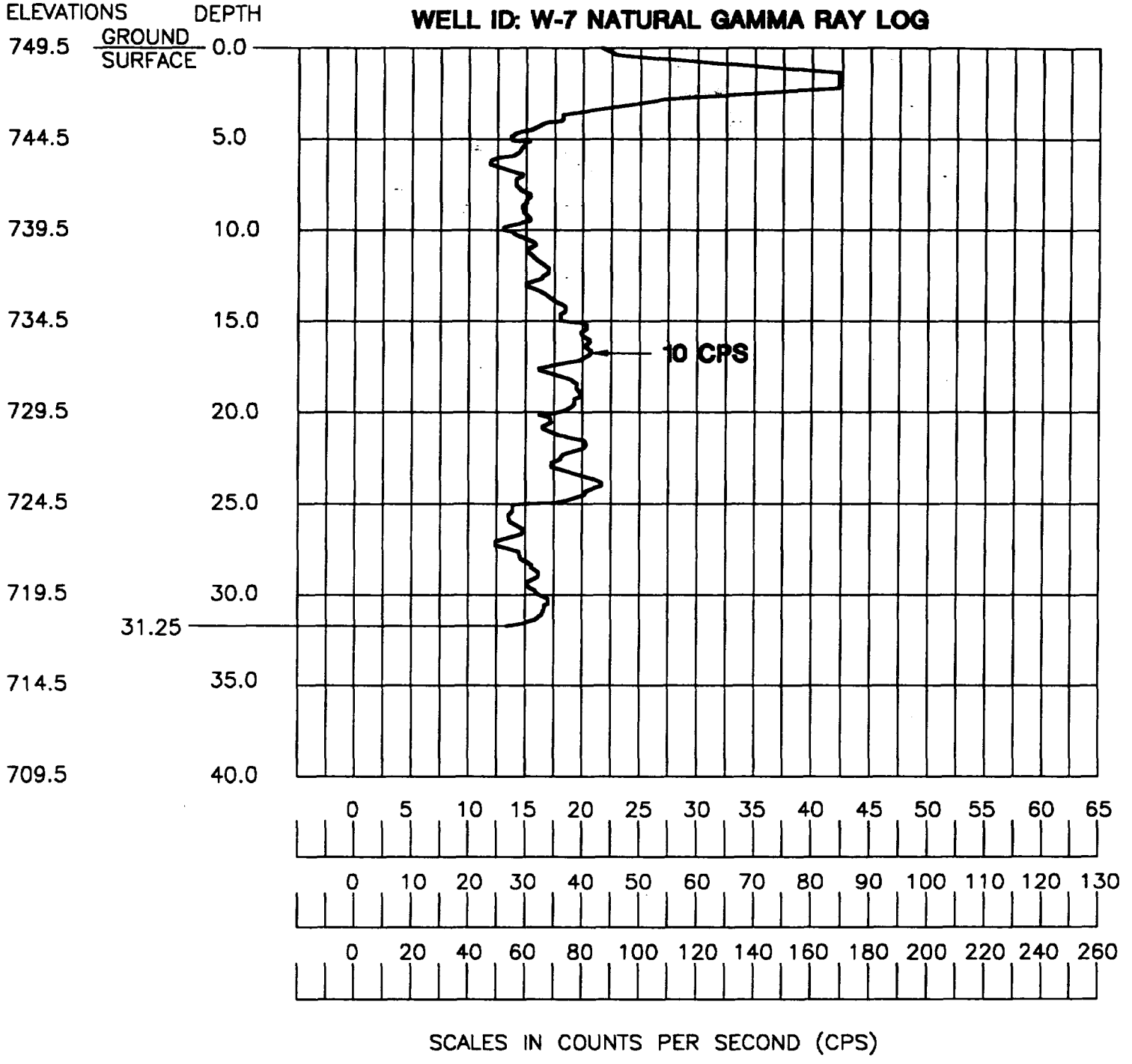
WELL ID: W-4 NATURAL GAMMA RAY LOG

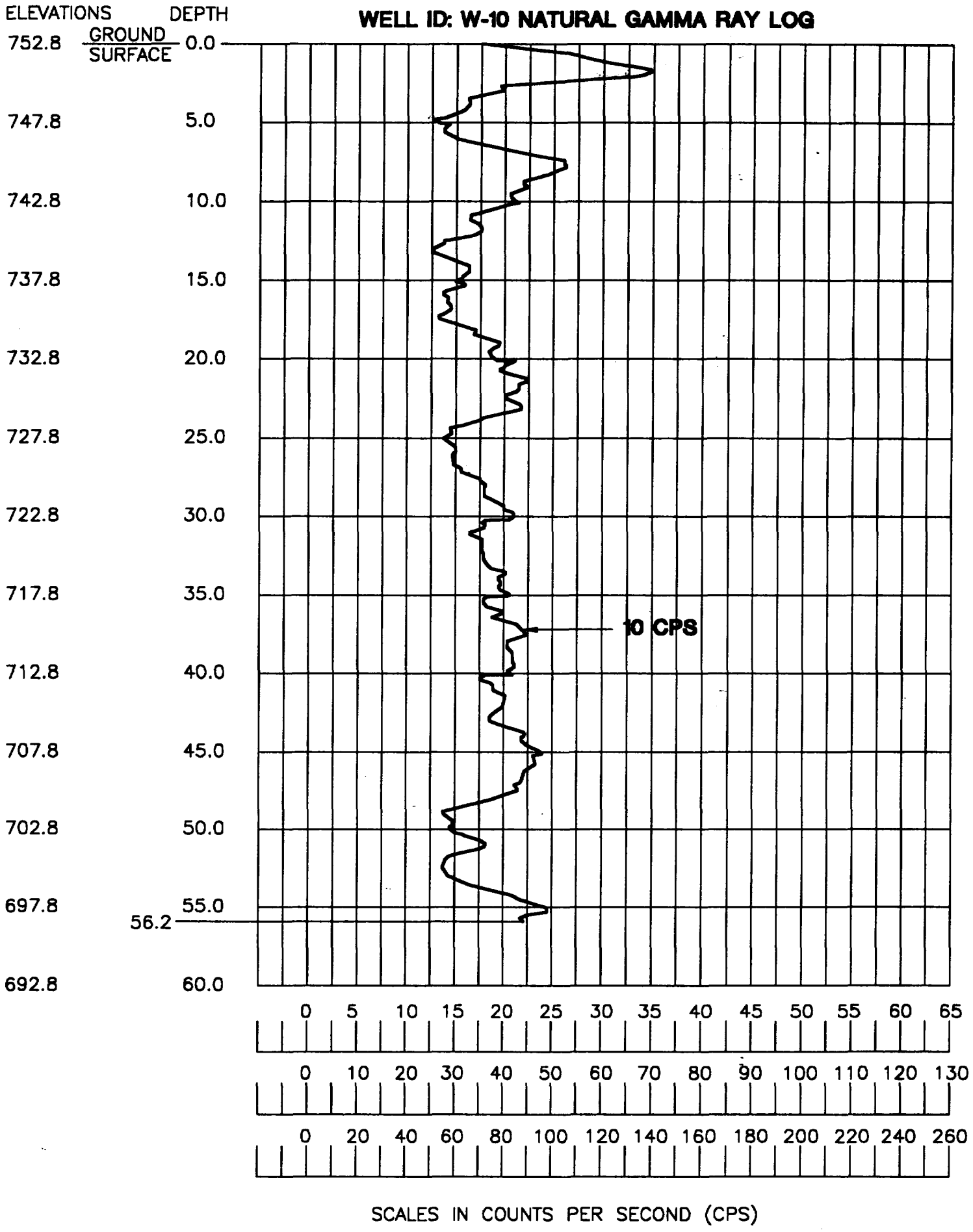


WELL ID: W-6 NATURAL GAMMA RAY LOG

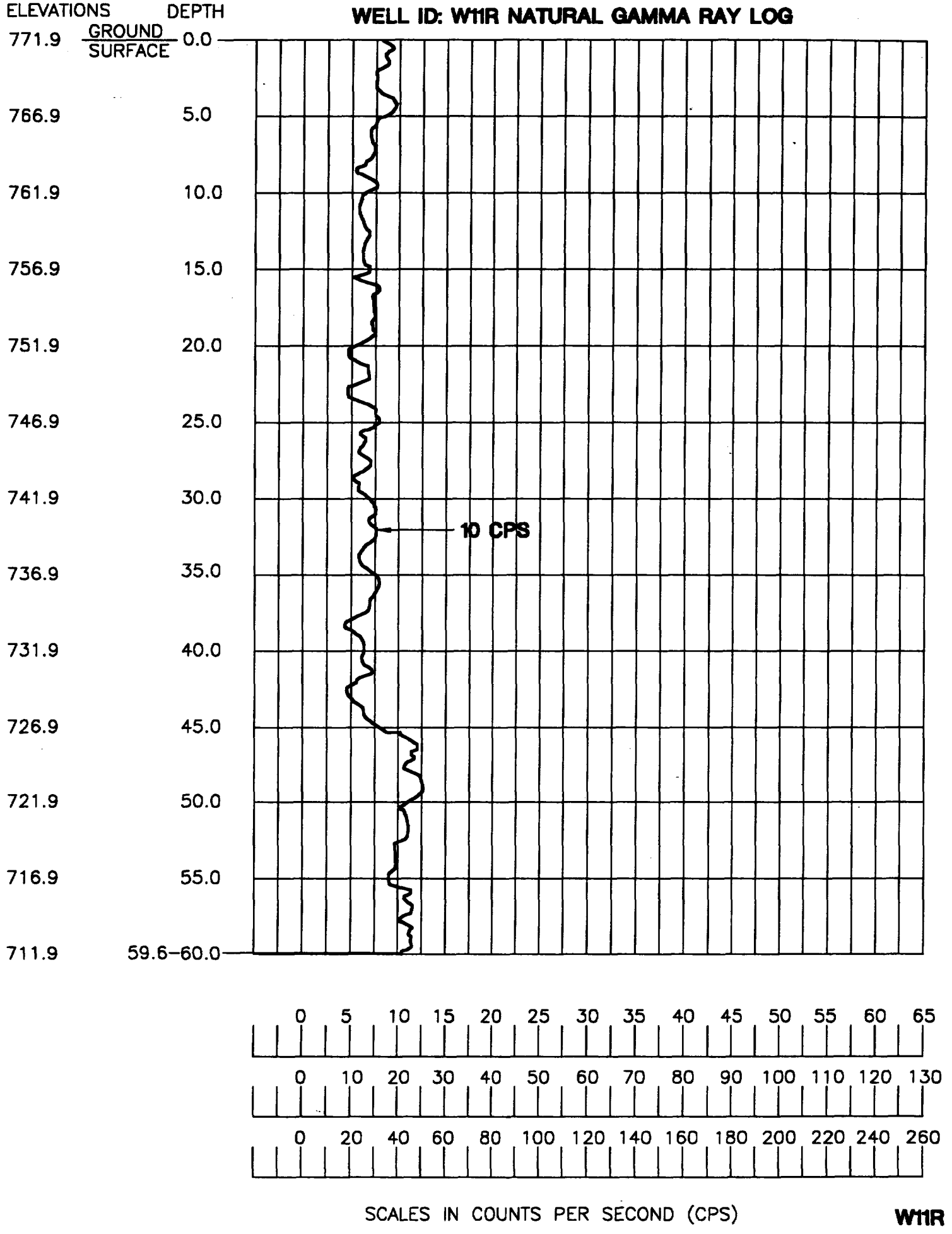


WELL ID: W-7 NATURAL GAMMA RAY LOG



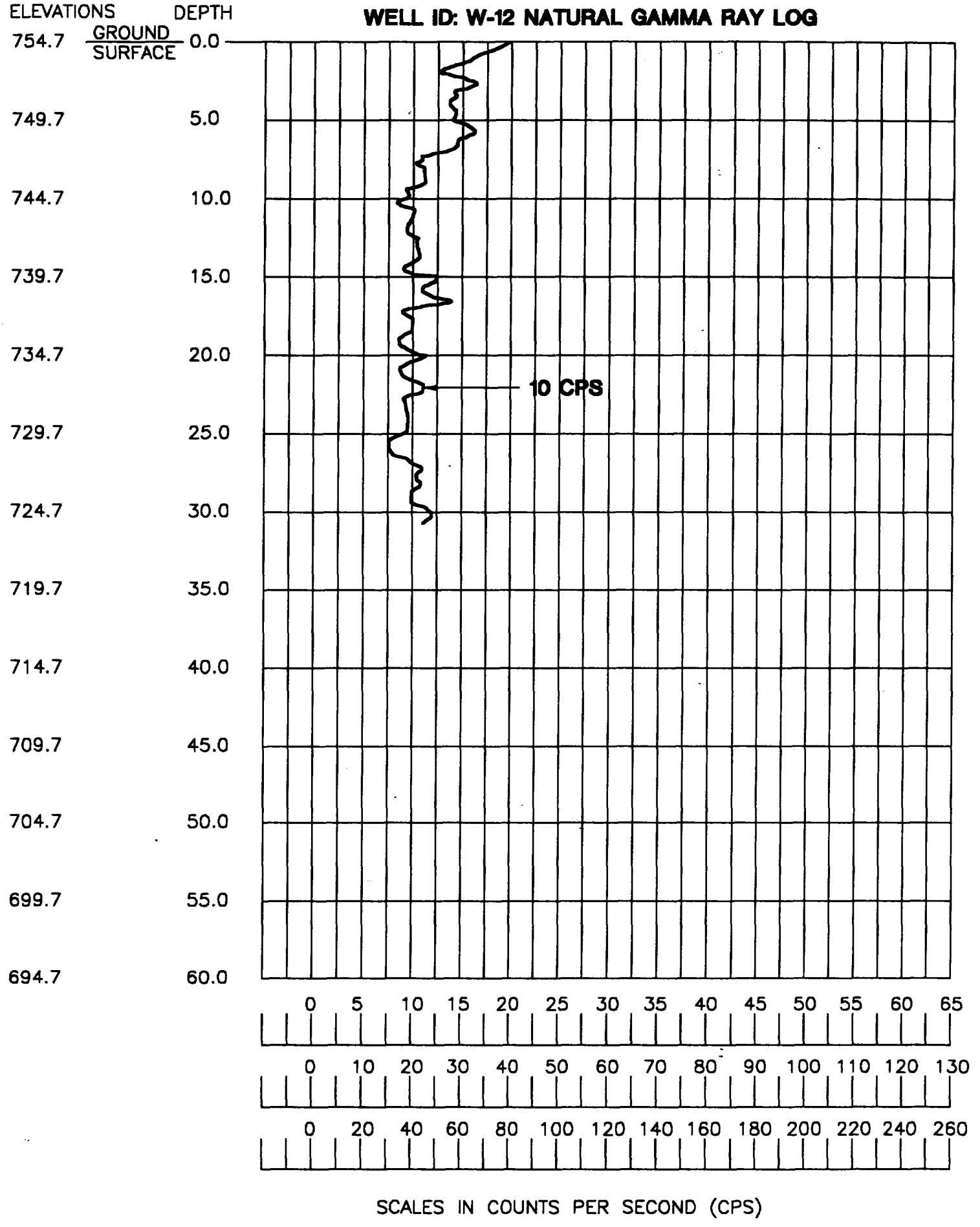

WELL ID: W-10 NATURAL GAMMA RAY LOG
ELEVATIONS
DEPTH
752.8
GROUND SURFACE
0.0
747.8
5.0
742.8
10.0
737.8
15.0
732.8
20.0
727.8
25.0
722.8
30.0
717.8
35.0
712.8
40.0
707.8
45.0
702.8
50.0
697.8
55.0
56.2
692.8
60.0
10 CPS
0 5 10 15 20 25 30 35 40 45 50 55 60 65
0 10 20 30 40 50 60 70 80 90 100 110 120 130
0 20 40 60 80 100 120 140 160 180 200 220 240 260
SCALES IN COUNTS PER SECOND (CPS)

WELL ID: W11R NATURAL GAMMA RAY LOG

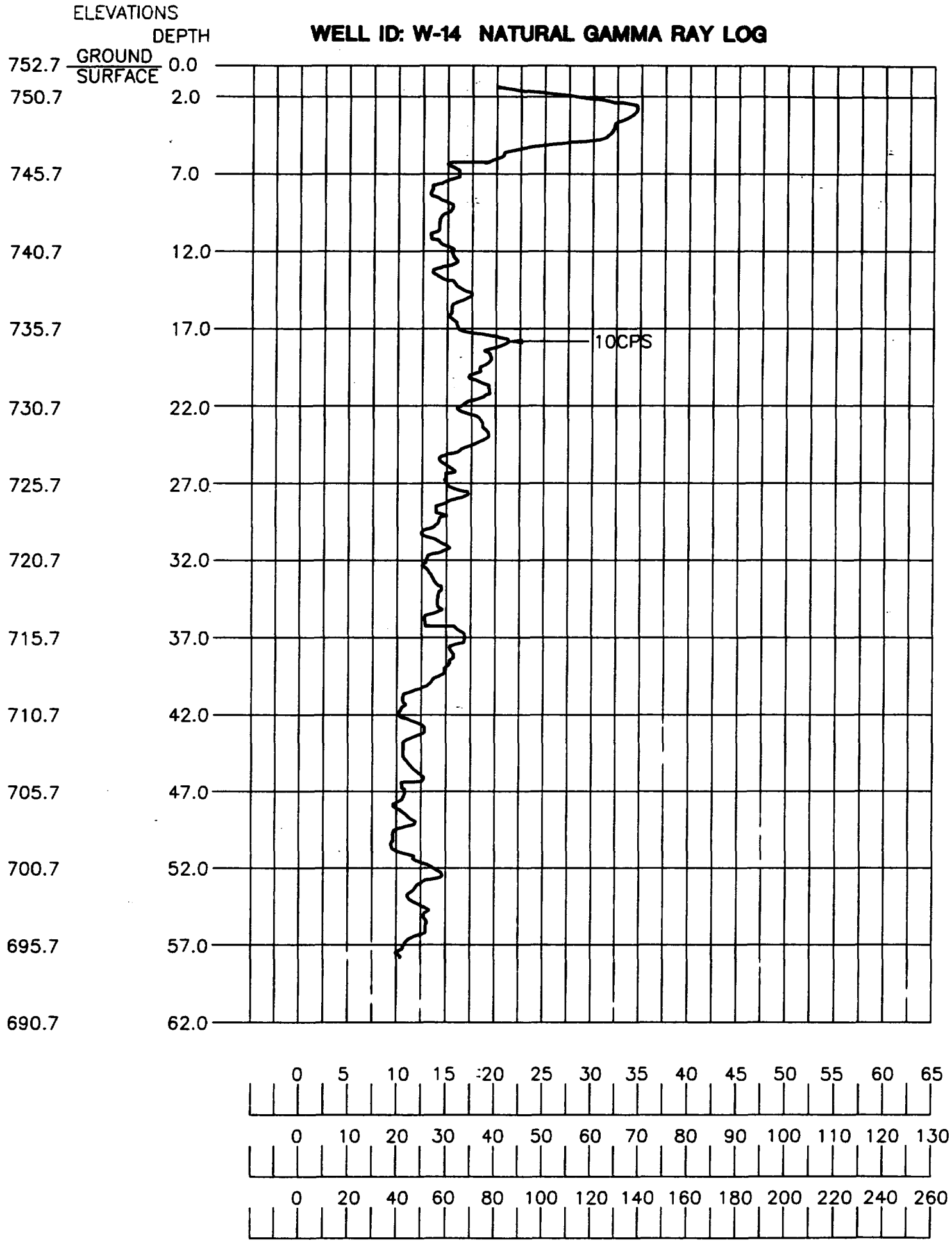


W11R

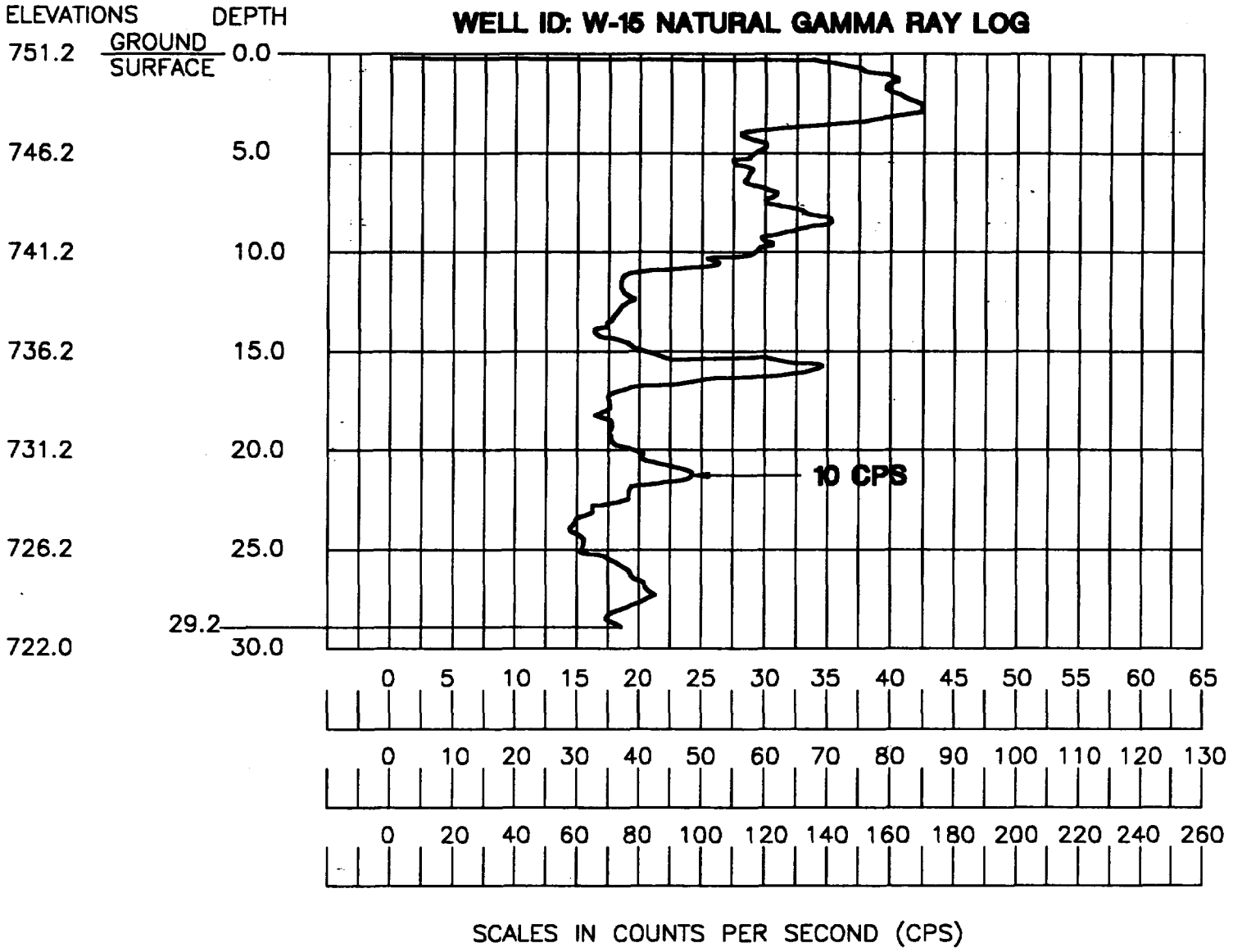
WELL ID: W-12 NATURAL GAMMA RAY LOG



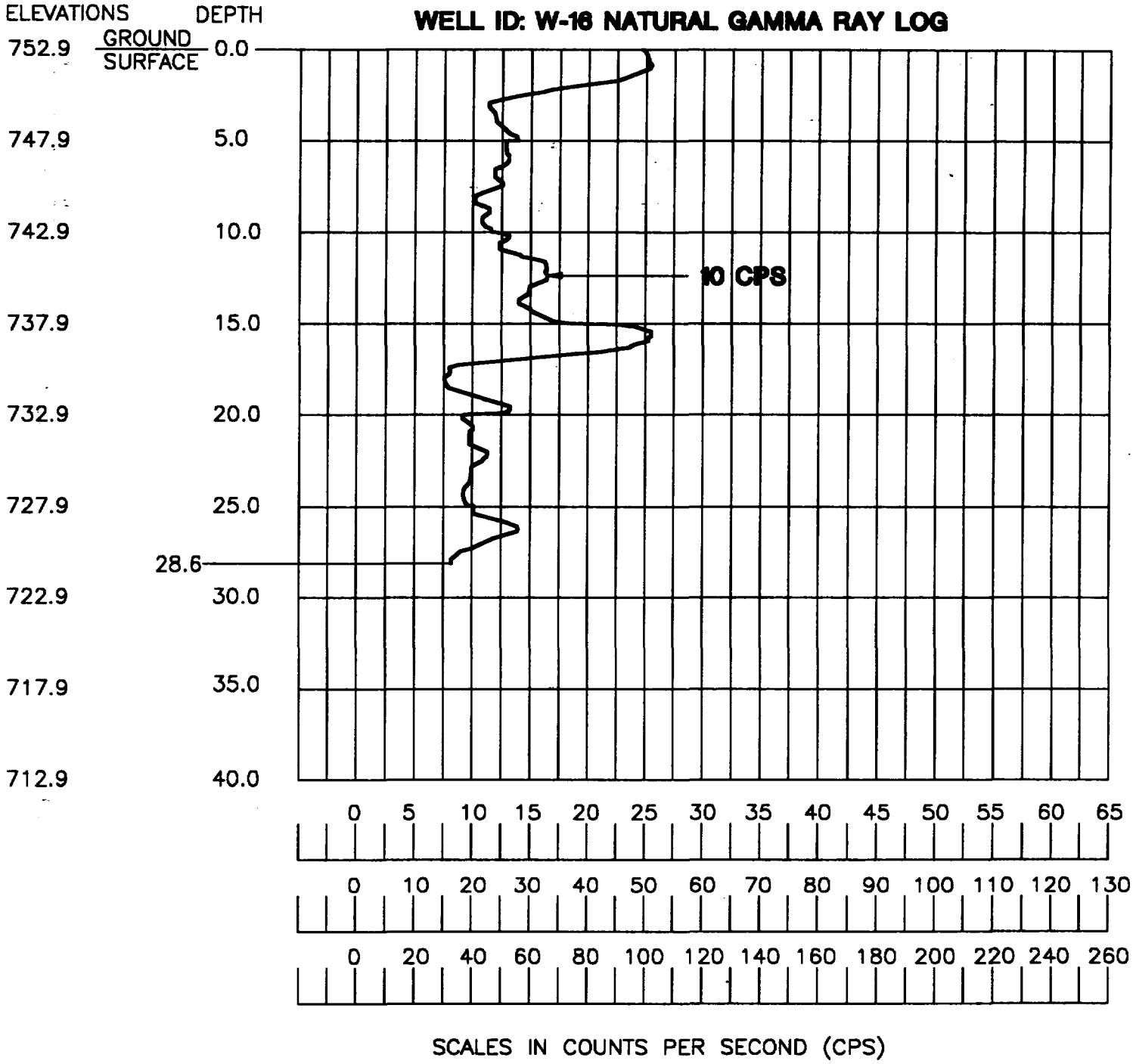
WELL ID: W-14 NATURAL GAMMA RAY LOG



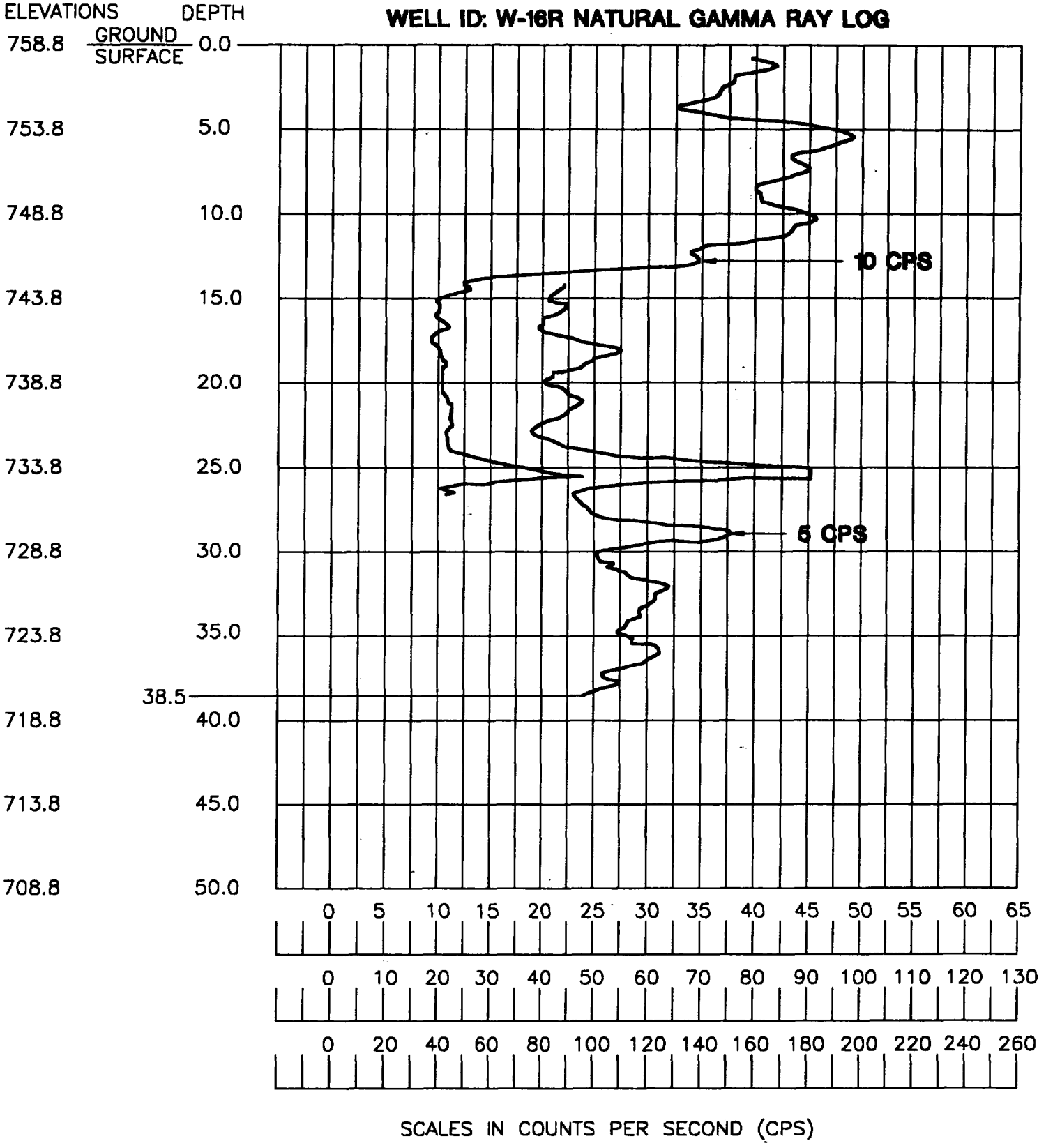
WELL ID: W-15 NATURAL GAMMA RAY LOG



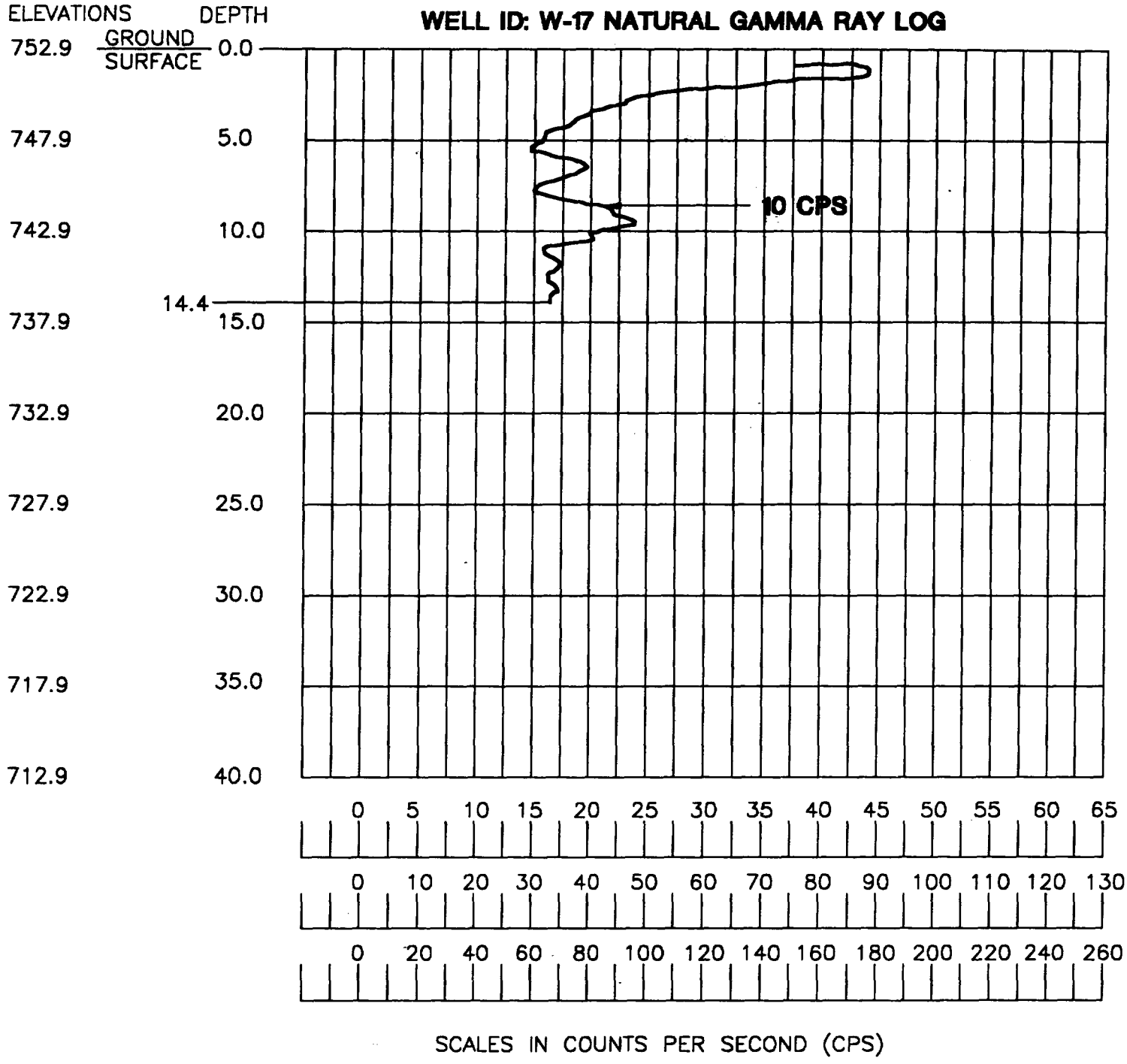
WELL ID: W-16 NATURAL GAMMA RAY LOG

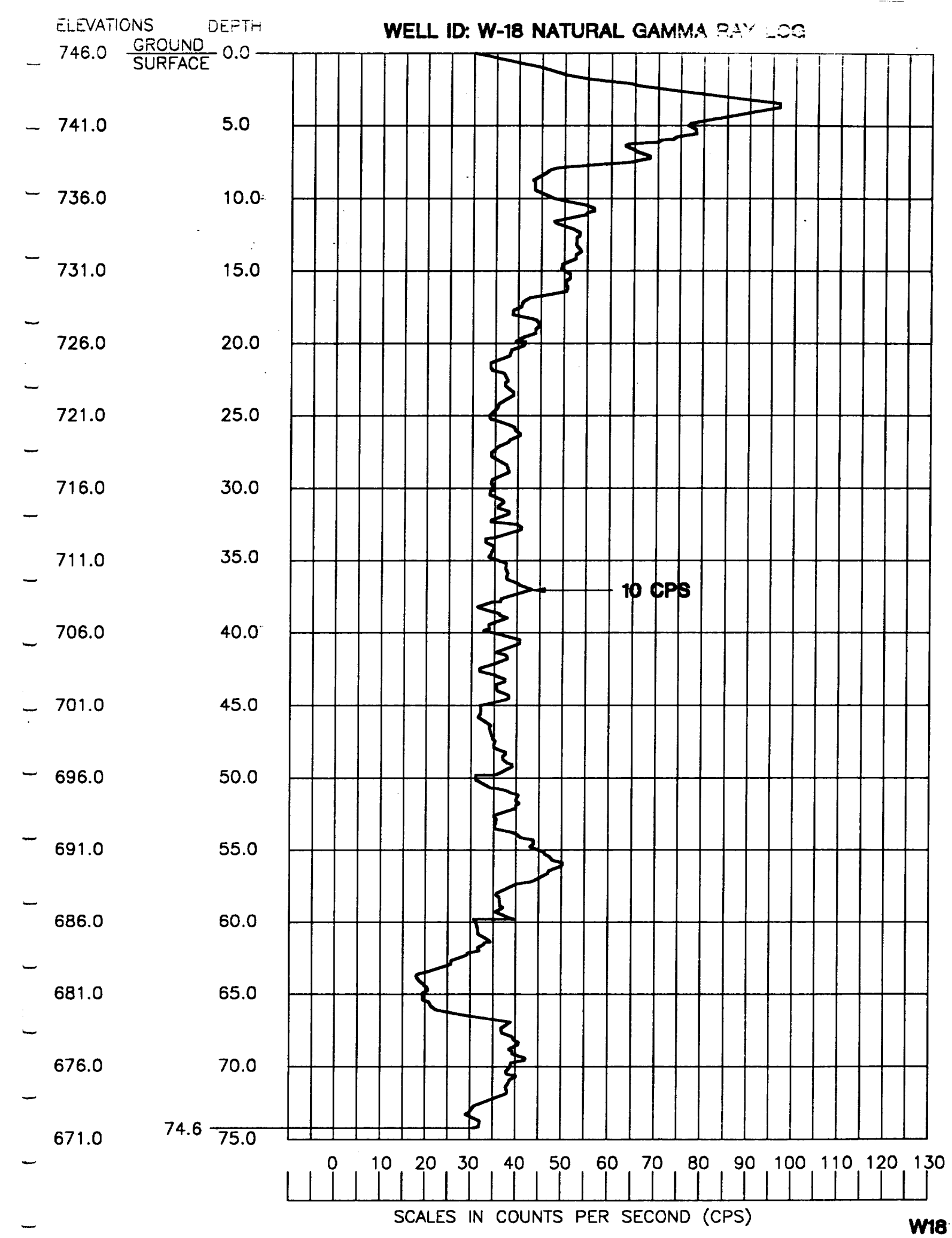


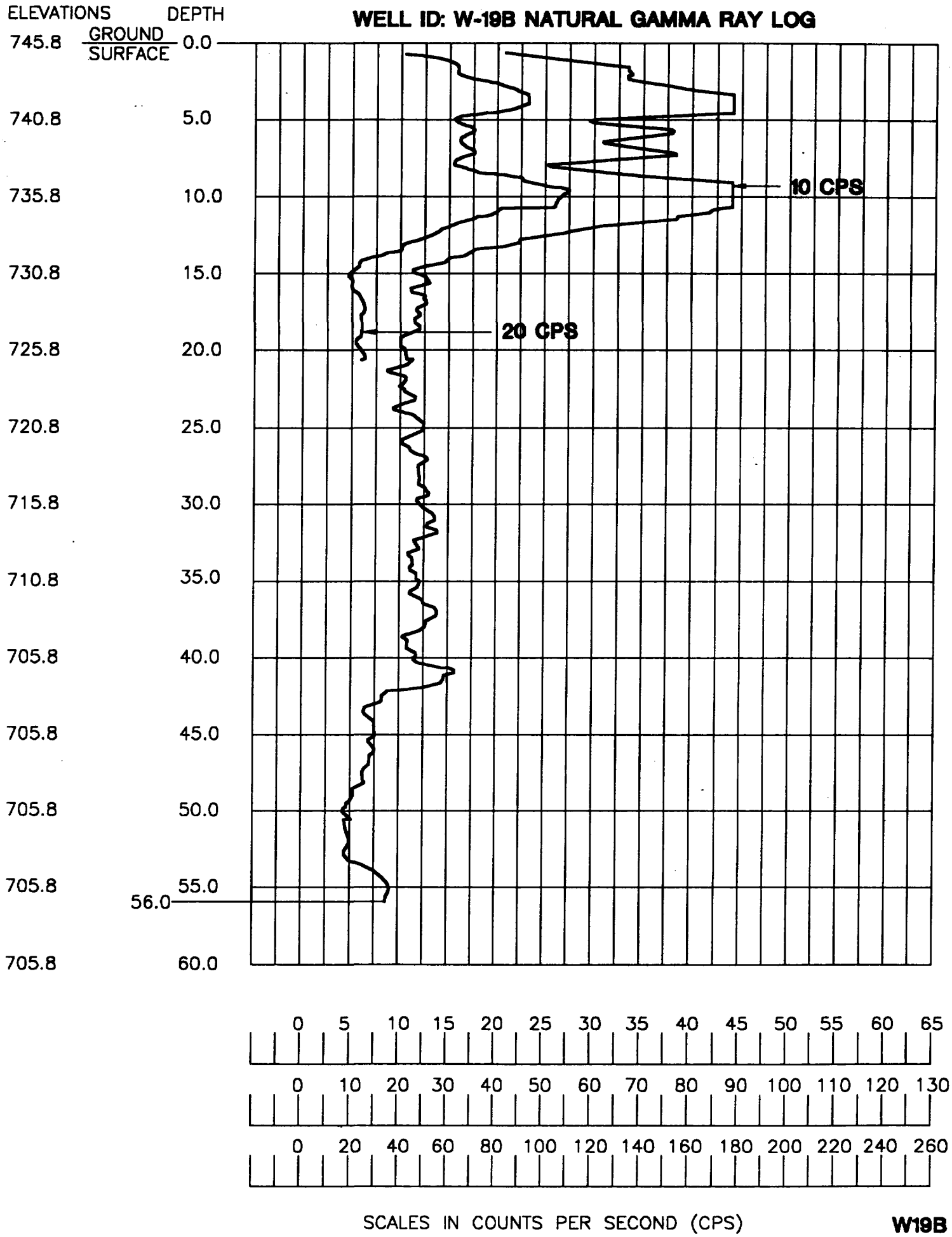
WELL ID: W-16R NATURAL GAMMA RAY LOG

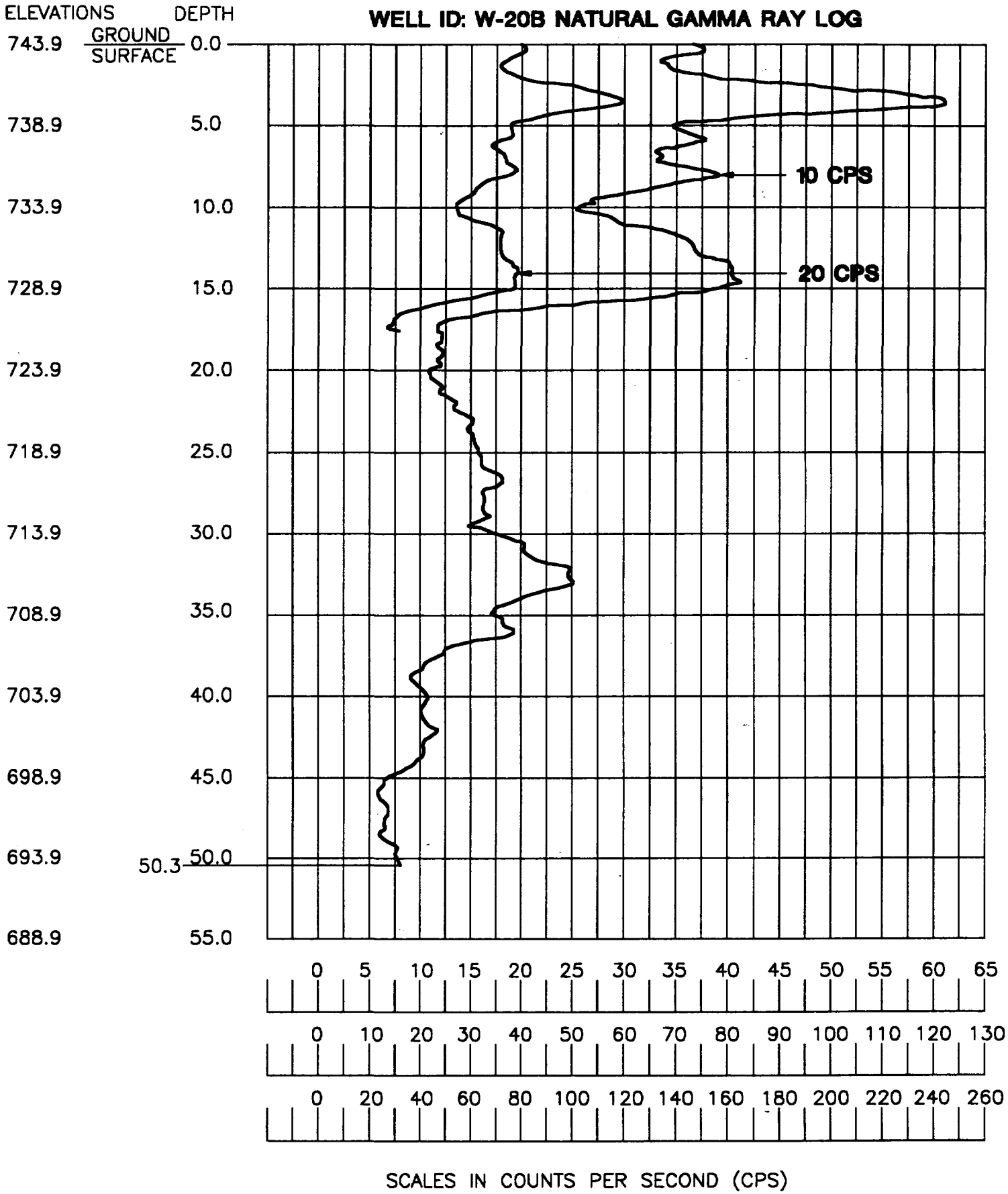


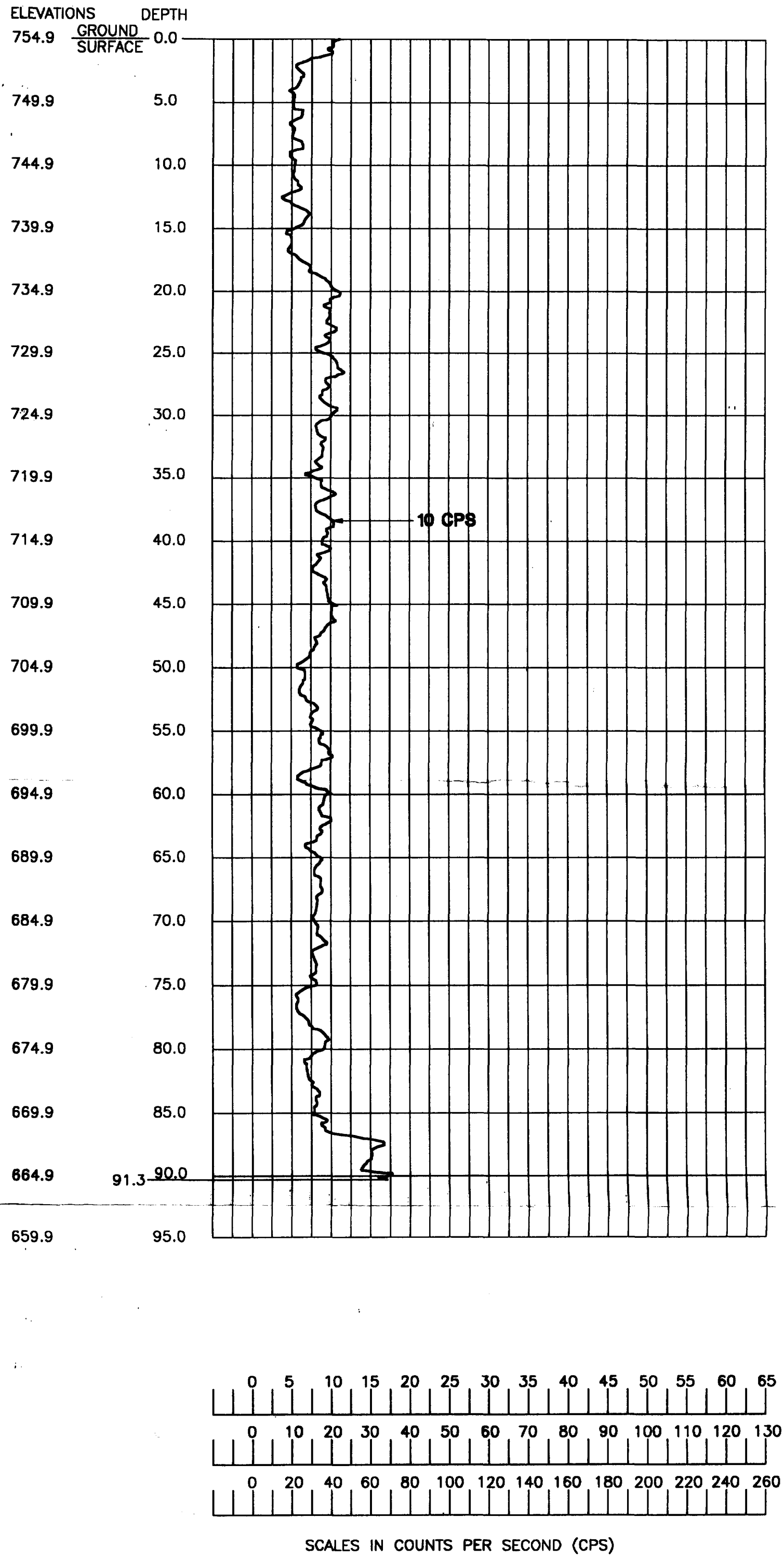
WELL ID: W-17 NATURAL GAMMA RAY LOG




WELL ID: W-18 NATURAL GAMMA RAY LOG
ELEVATIONS
DEPTH
GROUND SURFACE
746.0
0.0
741.0
5.0
736.0
10.0
731.0
15.0
726.0
20.0
721.0
25.0
716.0
30.0
711.0
35.0
706.0
40.0
701.0
45.0
696.0
50.0
691.0
55.0
686.0
60.0
681.0
65.0
676.0
70.0
671.0
74.6
75.0
10 CPS
0 10 20 30 40 50 60 70 80 90 100 110 120 130
SCALES IN COUNTS PER SECOND (CPS)
W18

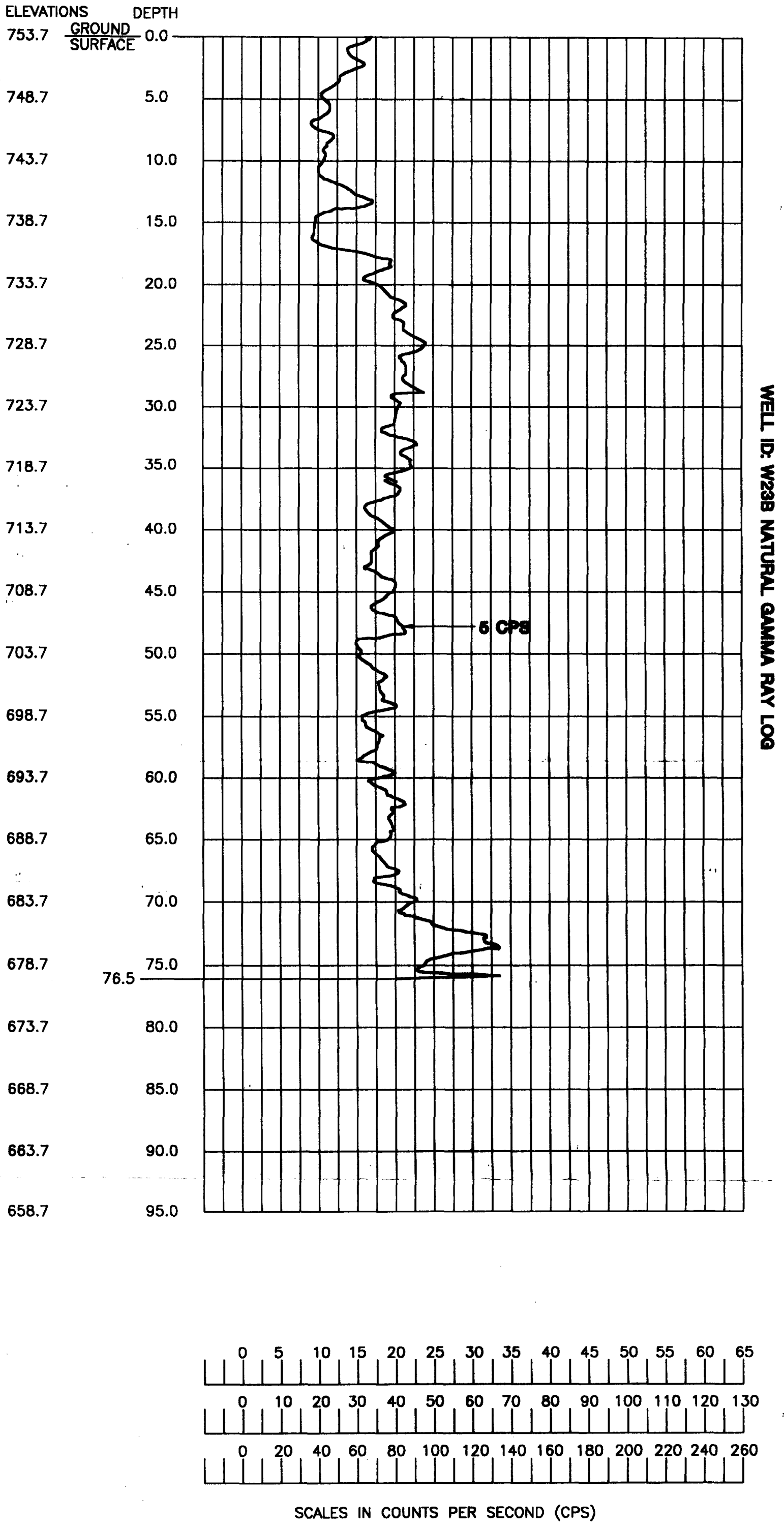

WELL ID: W-19B NATURAL GAMMA RAY LOG
ELEVATIONS
DEPTH
745.8
GROUND SURFACE
0.0
740.8
5.0
735.8
10.0
730.8
15.0
725.8
20.0
720.8
25.0
715.8
30.0
710.8
35.0
705.8
40.0
705.8
45.0
705.8
50.0
705.8
55.0
56.0
705.8
60.0
10 CPS
20 CPS
0 5 10 15 20 25 30 35 40 45 50 55 60 65
0 10 20 30 40 50 60 70 80 90 100 110 120 130
0 20 40 60 80 100 120 140 160 180 200 220 240 260
SCALES IN COUNTS PER SECOND (CPS)
W19B


WELL ID: W-20B NATURAL GAMMA RAY LOG
ELEVATIONS
DEPTH
743.9
GROUND SURFACE
0.0
738.9
5.0
733.9
10.0
728.9
15.0
723.9
20.0
718.9
25.0
713.9
30.0
708.9
35.0
703.9
40.0
698.9
45.0
693.9
50.3
50.0
688.9
55.0
10 CPS
20 CPS
0 5 10 15 20 25 30 35 40 45 50 55 60 65
0 10 20 30 40 50 60 70 80 90 100 110 120 130
0 20 40 60 80 100 120 140 160 180 200 220 240 260
SCALES IN COUNTS PER SECOND (CPS)



WELL ID: W22C NATURAL GAMMA RAY LOG

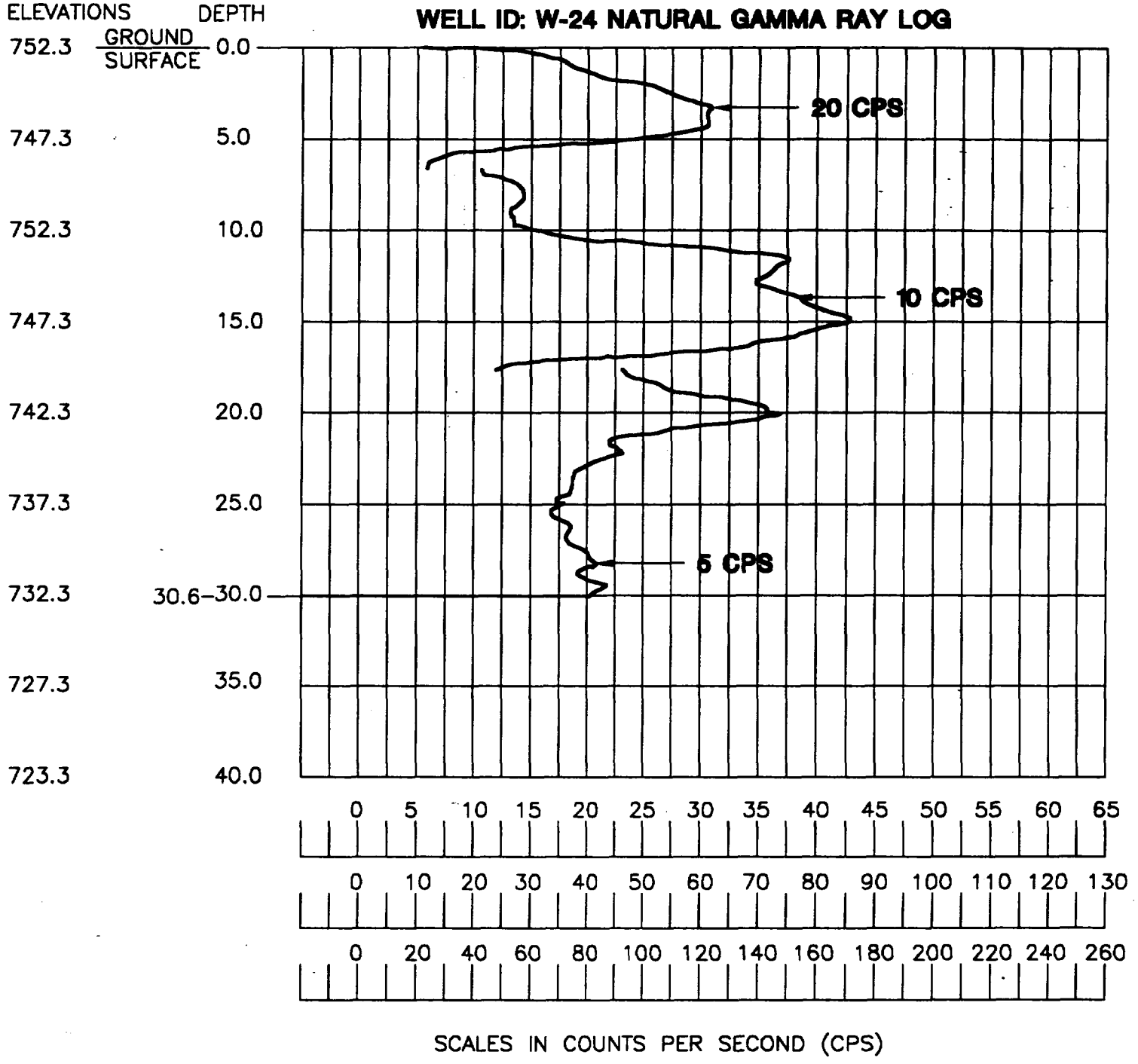
W22C



WELL ID: W23B NATURAL GAMMA RAY LOG

W23B

WELL ID: W-24 NATURAL GAMMA RAY LOG



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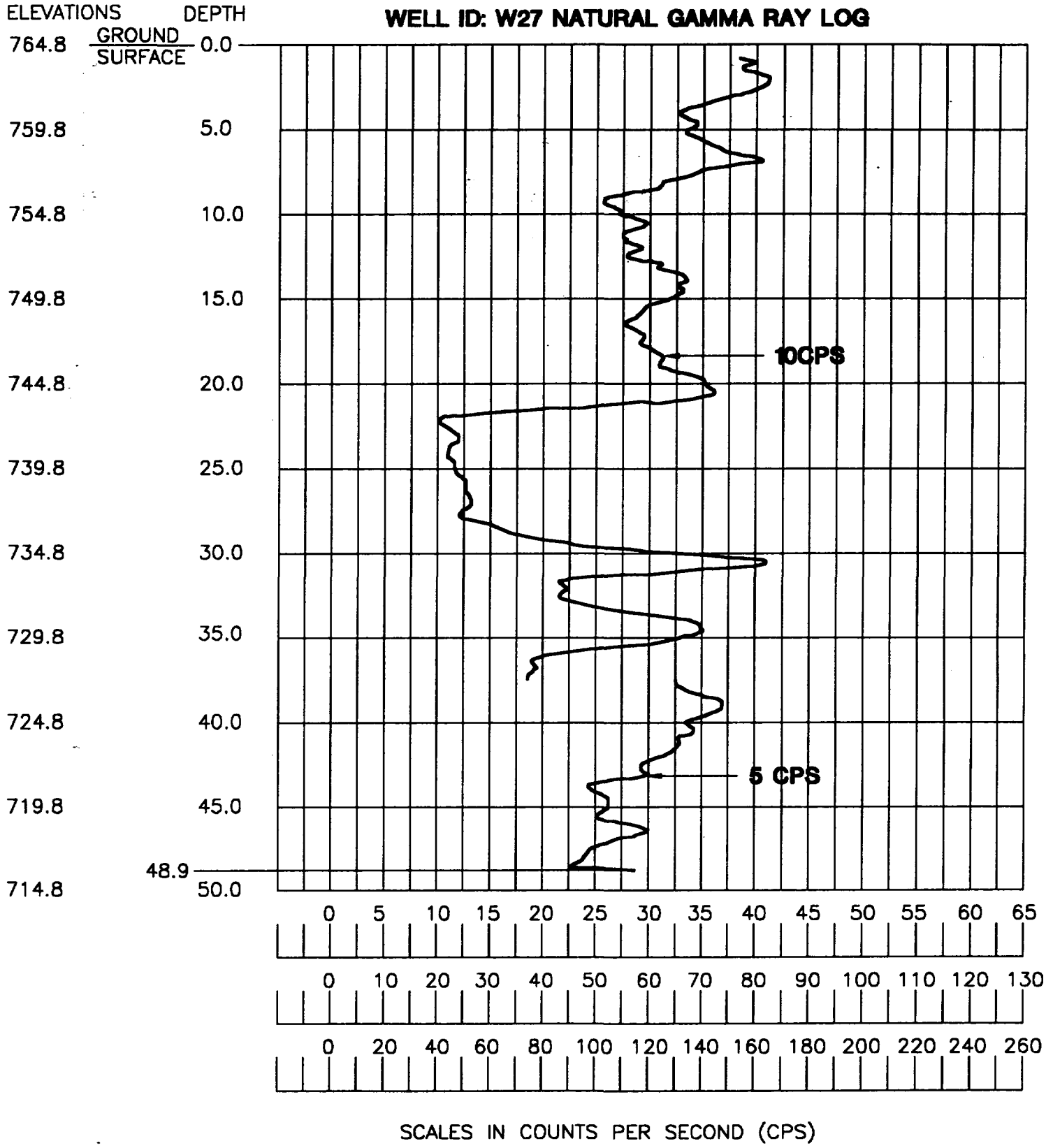

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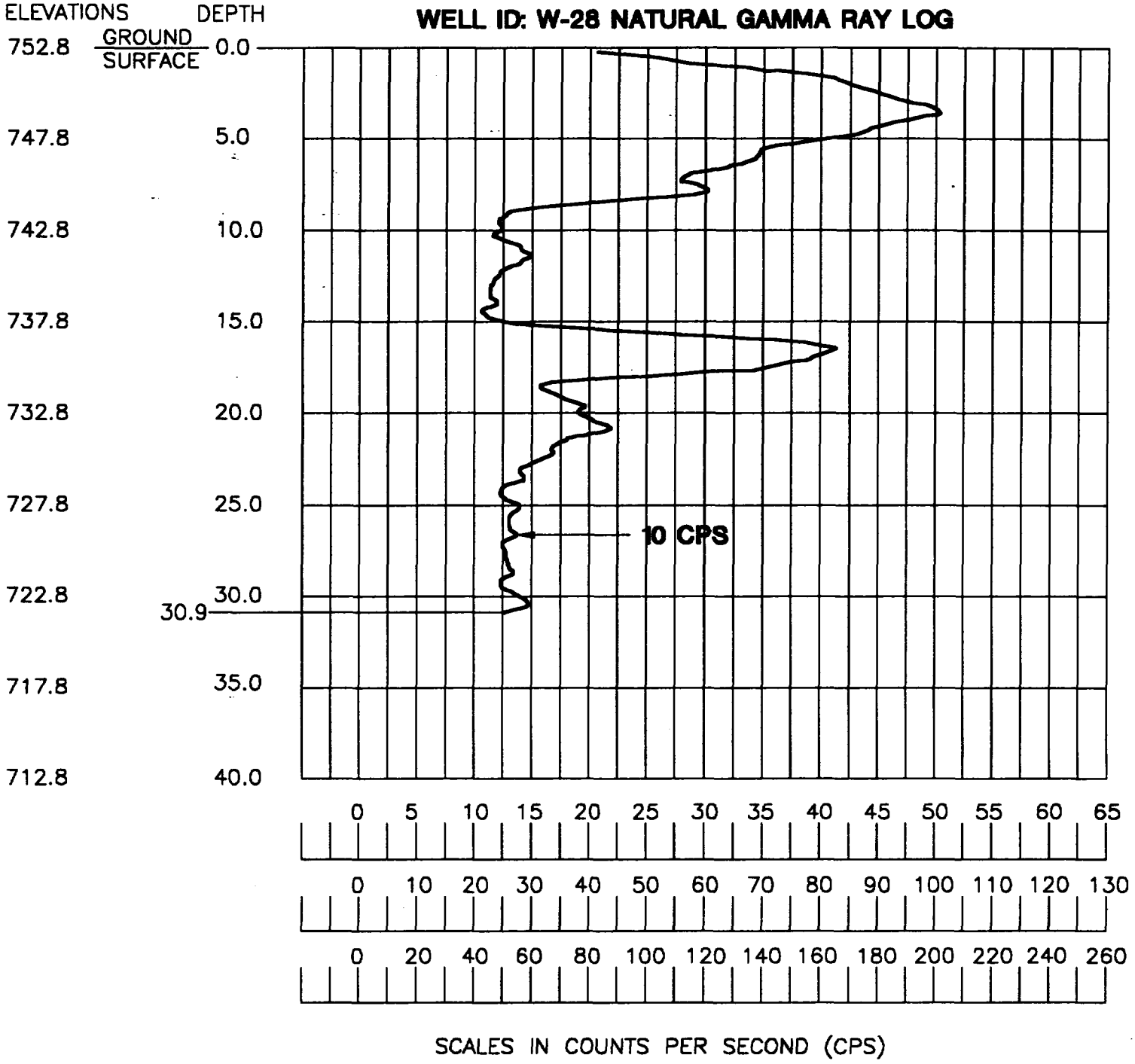
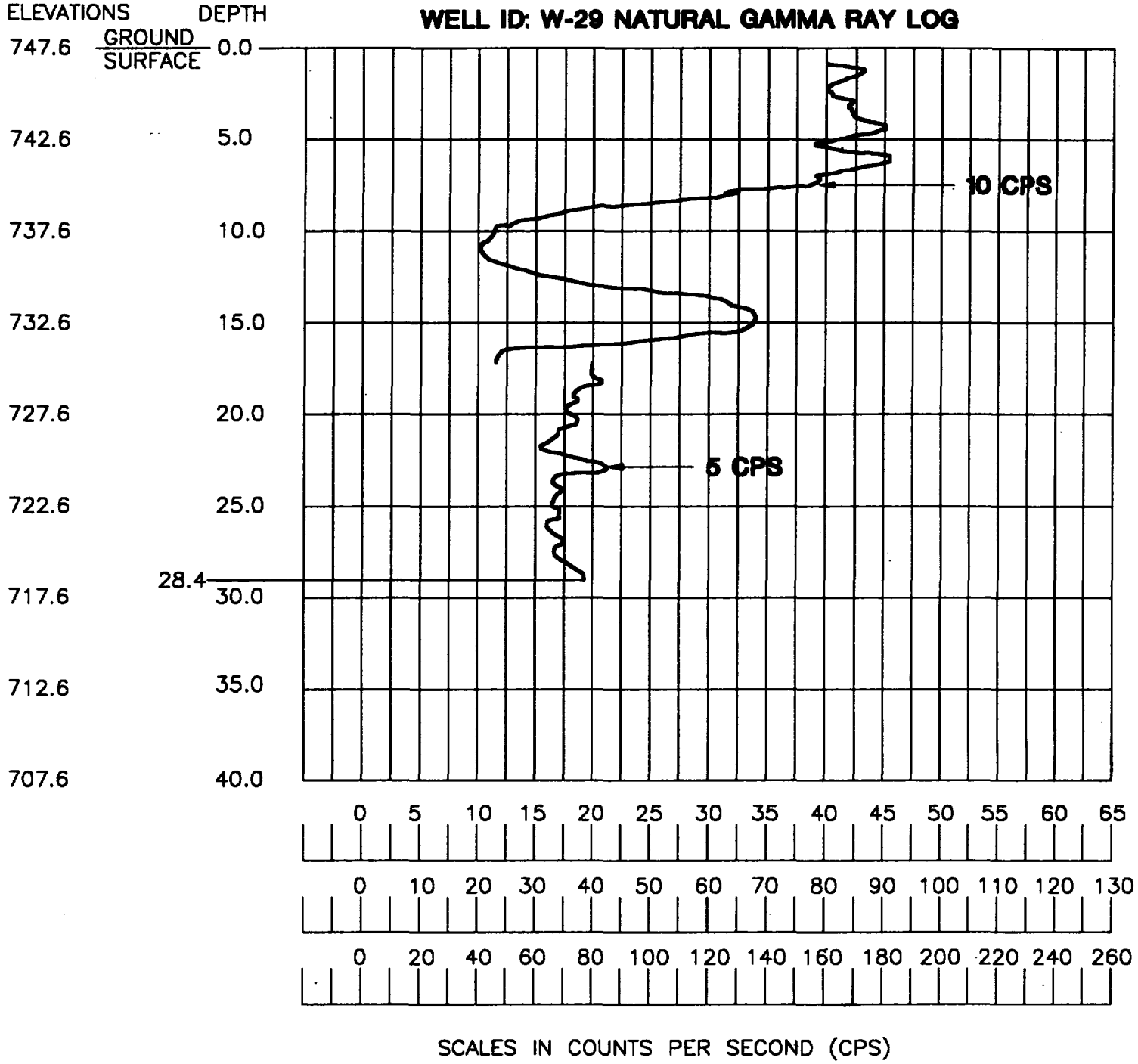
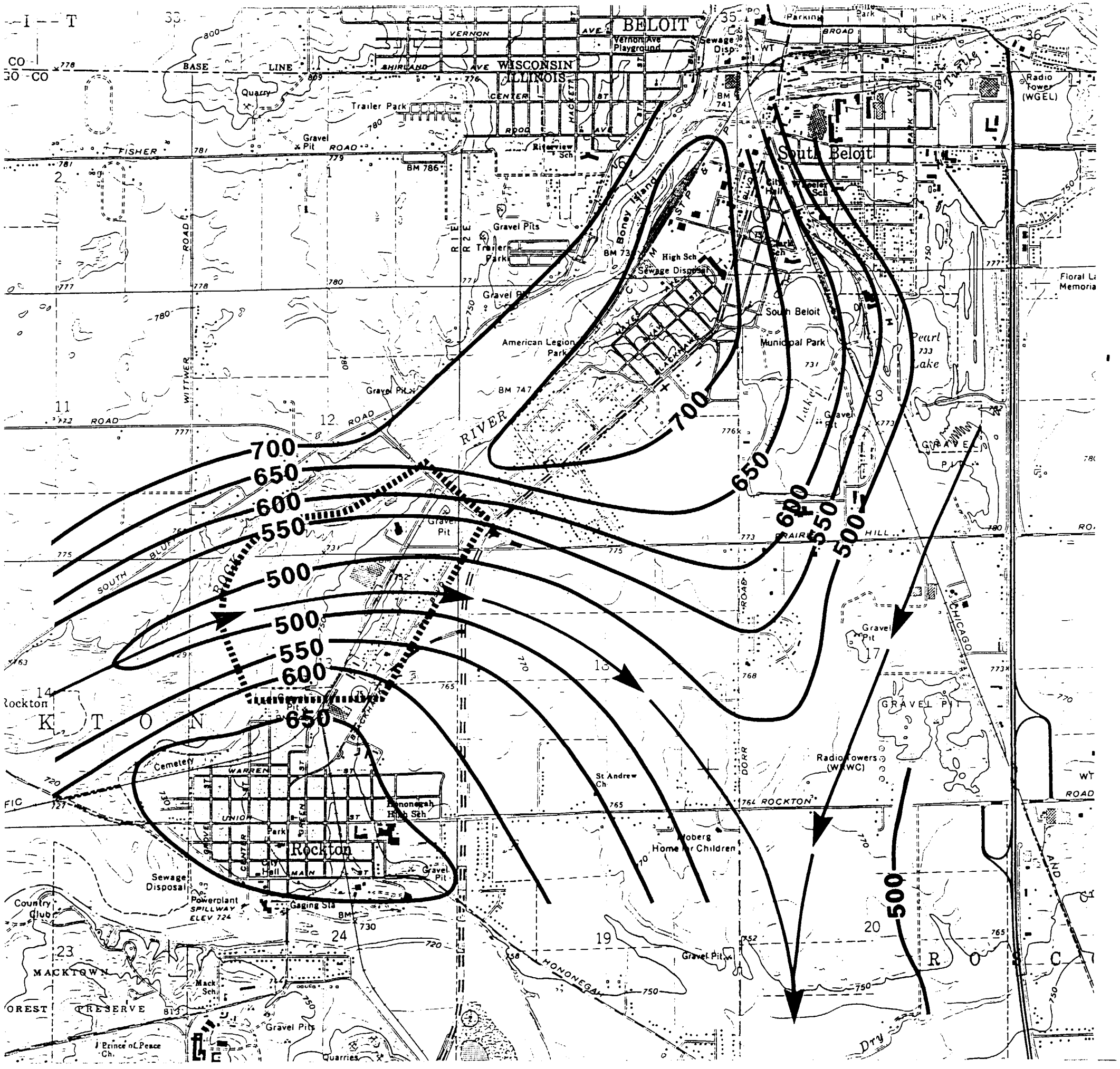


WELL ID: W-29 NATURAL GAMMA RAY LOG





LEGEND

AXIS OF BEDROCK VALLEY SHOWING DIRECTION OF SLOPE

—700— BEDROCK CONTOUR (CONTOUR INTERVAL: 50FT)

APPROXIMATE RI/FS BOUNDARY

NOTES

1. BASE MAP DEVELOPED FROM THE SOUTH BELOIT, ILLINOIS-WISCONSIN, 7.5 MINUTE U.S.G.S. TOPOGRAPHIC QUADRANGLE MAP, DATED 1971.
2. BEDROCK TOPOGRAPHY OBTAINED FROM ILLINOIS STATE GEOLOGICAL SURVEY CIRCULAR 531, GEOLOGY FOR PLANNING IN BOONE AND WINNEBAGO COUNTIES, 1984, AMY N. STECYK-MAP.

north

0 2000 4000

SCALE IN FEET

Developed By: J. E. M. Drawn By: LCL

Approved By: [signature] Date: 7/1/93

Reference:

Revisions:

LOCAL BEDROCK TOPOGRAPHY

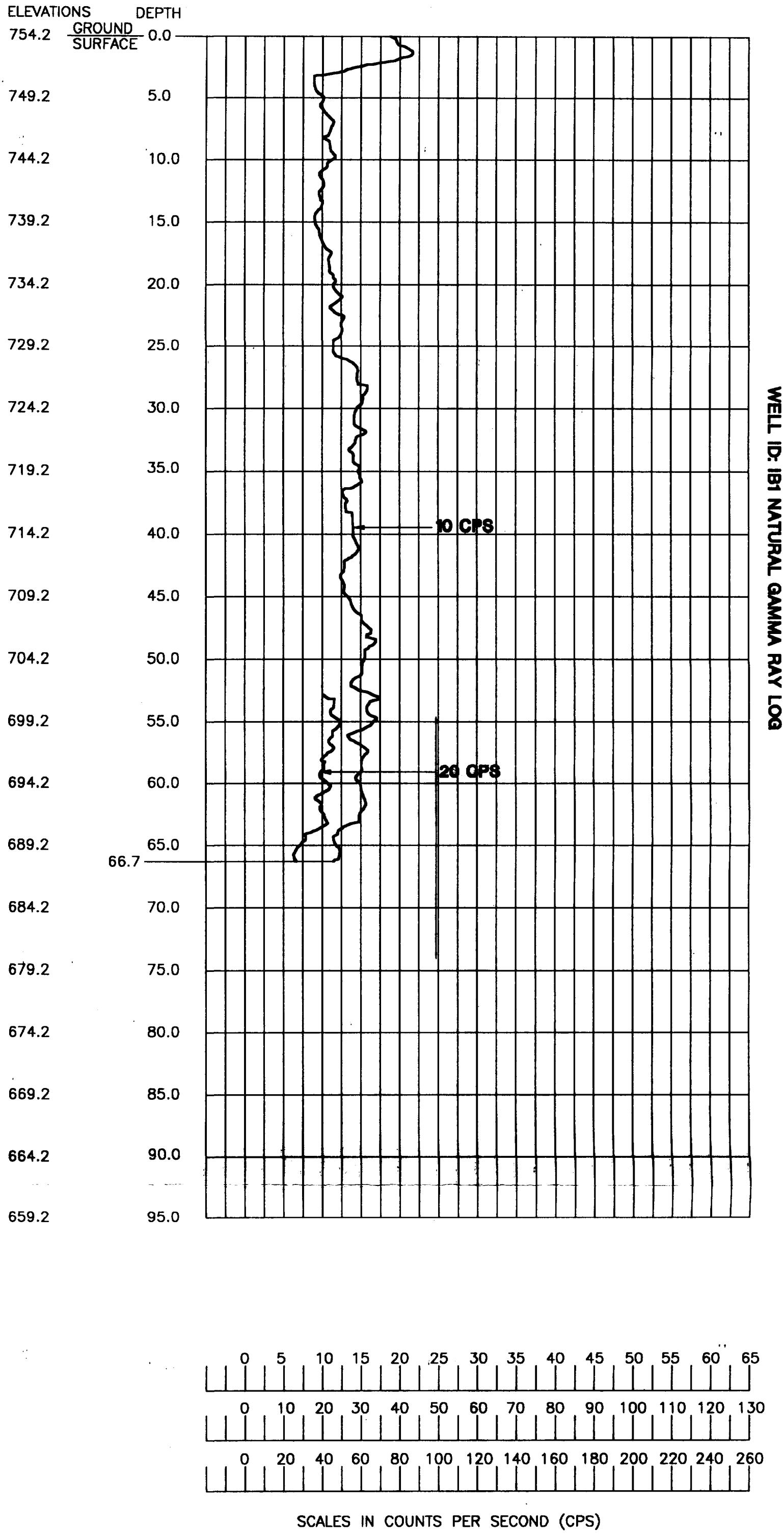
REMEDIAL INVESTIGATION/FEASIBILITY STUDY
BELOIT CORPORATION BLACKHAWK FACILITY
SECTION 12 AND 13, T46N, R1E
TOWN OF ROCKTON, WINNEBAGO CO., ILLINOIS

Drawing Number 1526892 **B1**

WARZYN

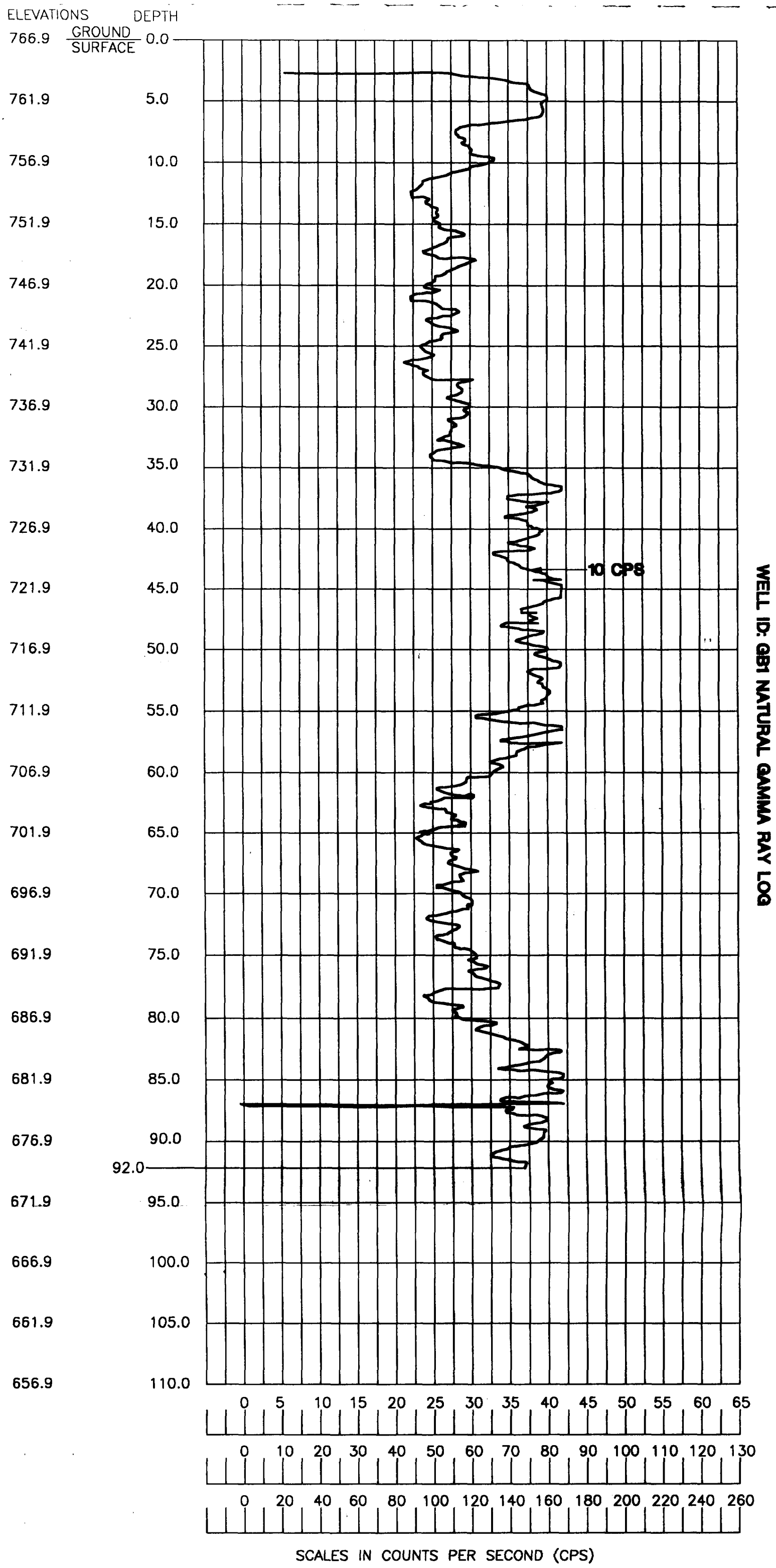
QUALITY CONTROL | Graphic Standards DLF/TMS 11.06.92 | Lead Professional JEM 11.11.92 | Technical Review | Project Manager KJD 11.13.92 | Management Review | Other

WARZYN INC. N68995



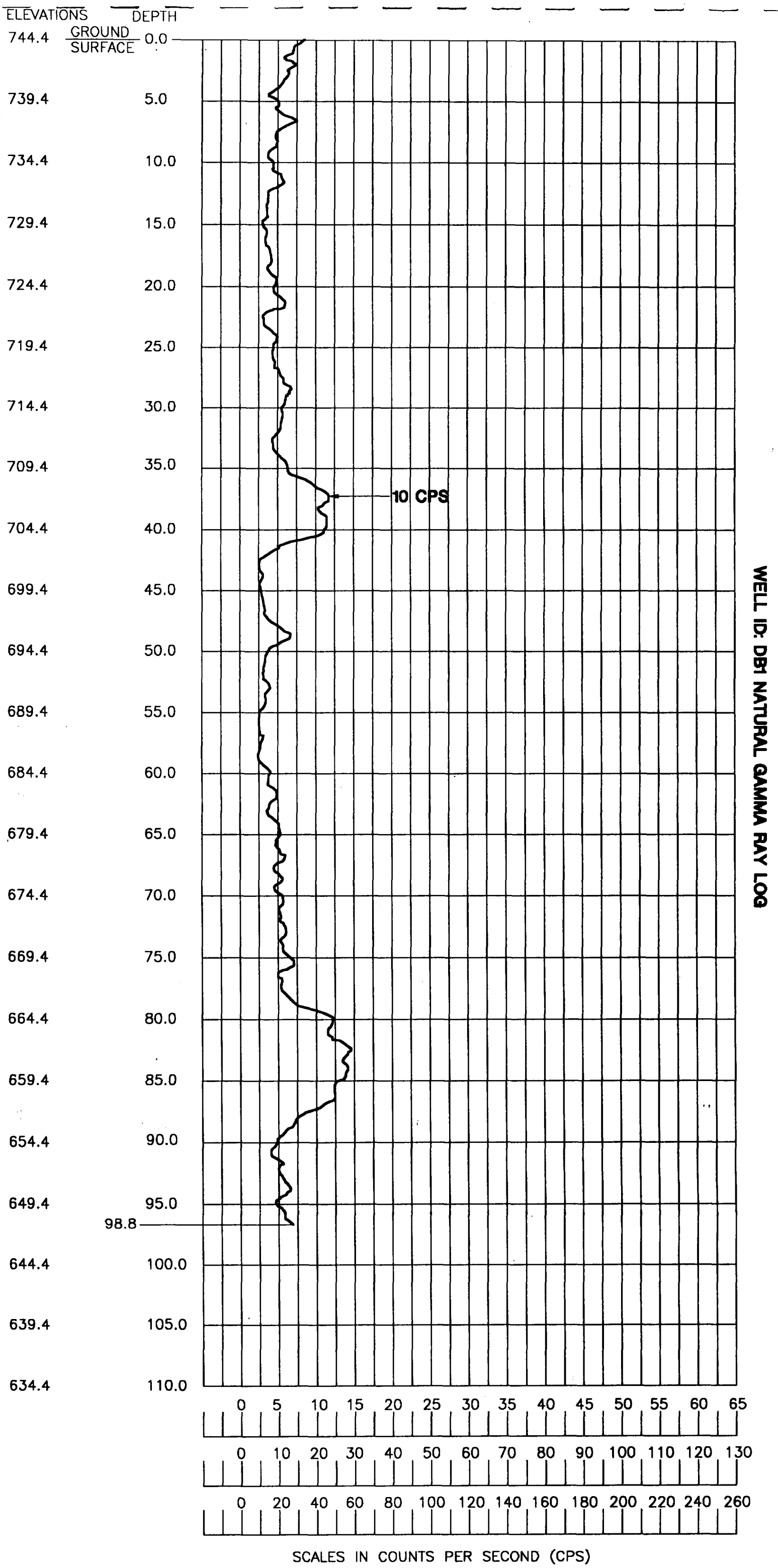
WELL ID: IB1 NATURAL GAMMA RAY LOG

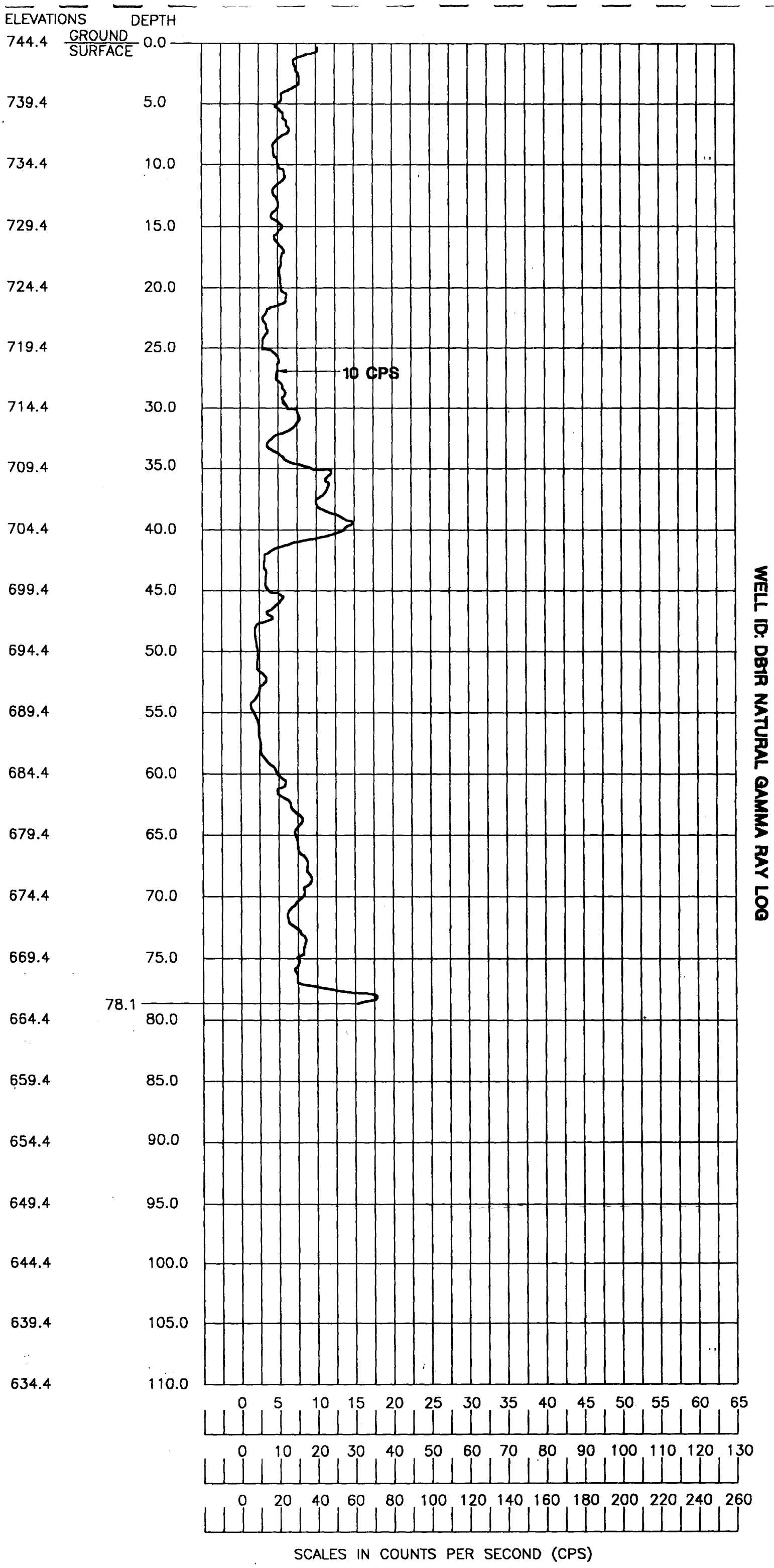
IB



WELL ID: GB1 NATURAL GAMMA RAY LOG

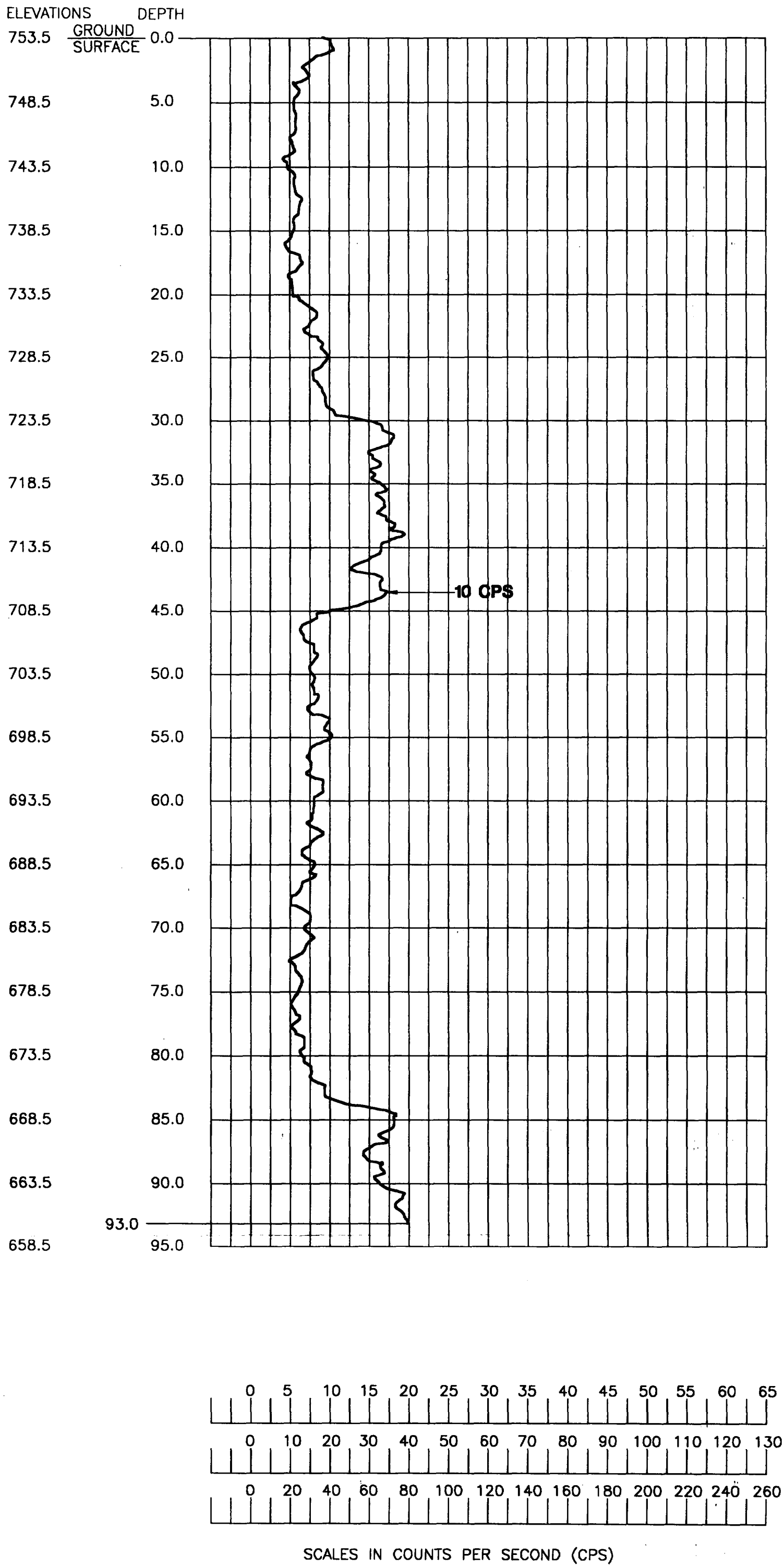
GB1


ELEVATIONS
DEPTH
744.4
GROUND SURFACE
0.0
739.4
5.0
734.4
10.0
729.4
15.0
724.4
20.0
719.4
25.0
714.4
30.0
709.4
35.0
704.4
40.0
699.4
45.0
694.4
50.0
689.4
55.0
684.4
60.0
679.4
65.0
674.4
70.0
669.4
75.0
664.4
80.0
659.4
85.0
654.4
90.0
649.4
95.0
98.8
644.4
100.0
639.4
105.0
634.4
110.0
10 CPS
0 5 10 15 20 25 30 35 40 45 50 55 60 65
0 10 20 30 40 50 60 70 80 90 100 110 120 130
0 20 40 60 80 100 120 140 160 180 200 220 240 260
SCALES IN COUNTS PER SECOND (CPS)
WELL ID: DB1 NATURAL GAMMA RAY LOG



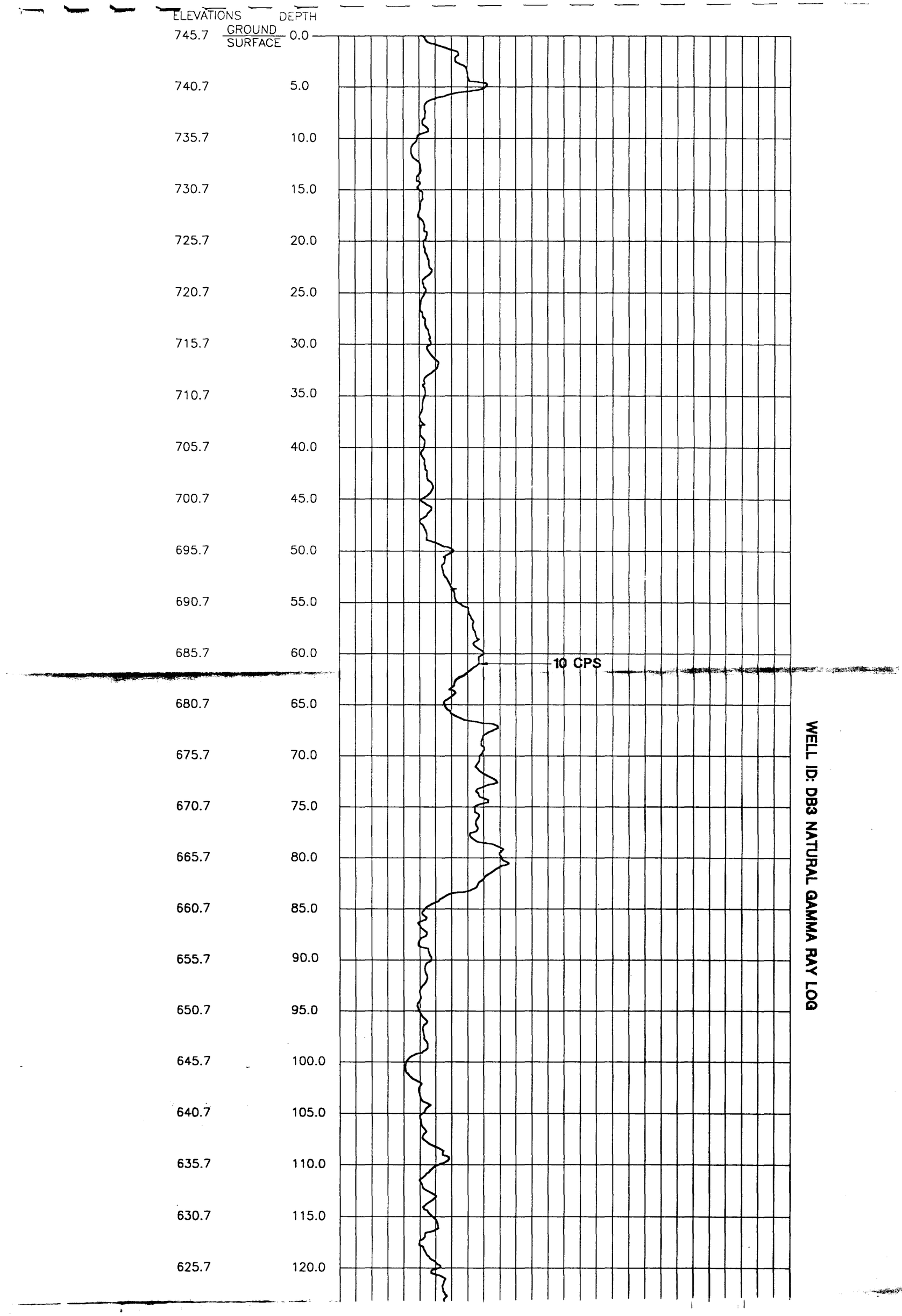
WELL ID: DB1R NATURAL GAMMA RAY LOG

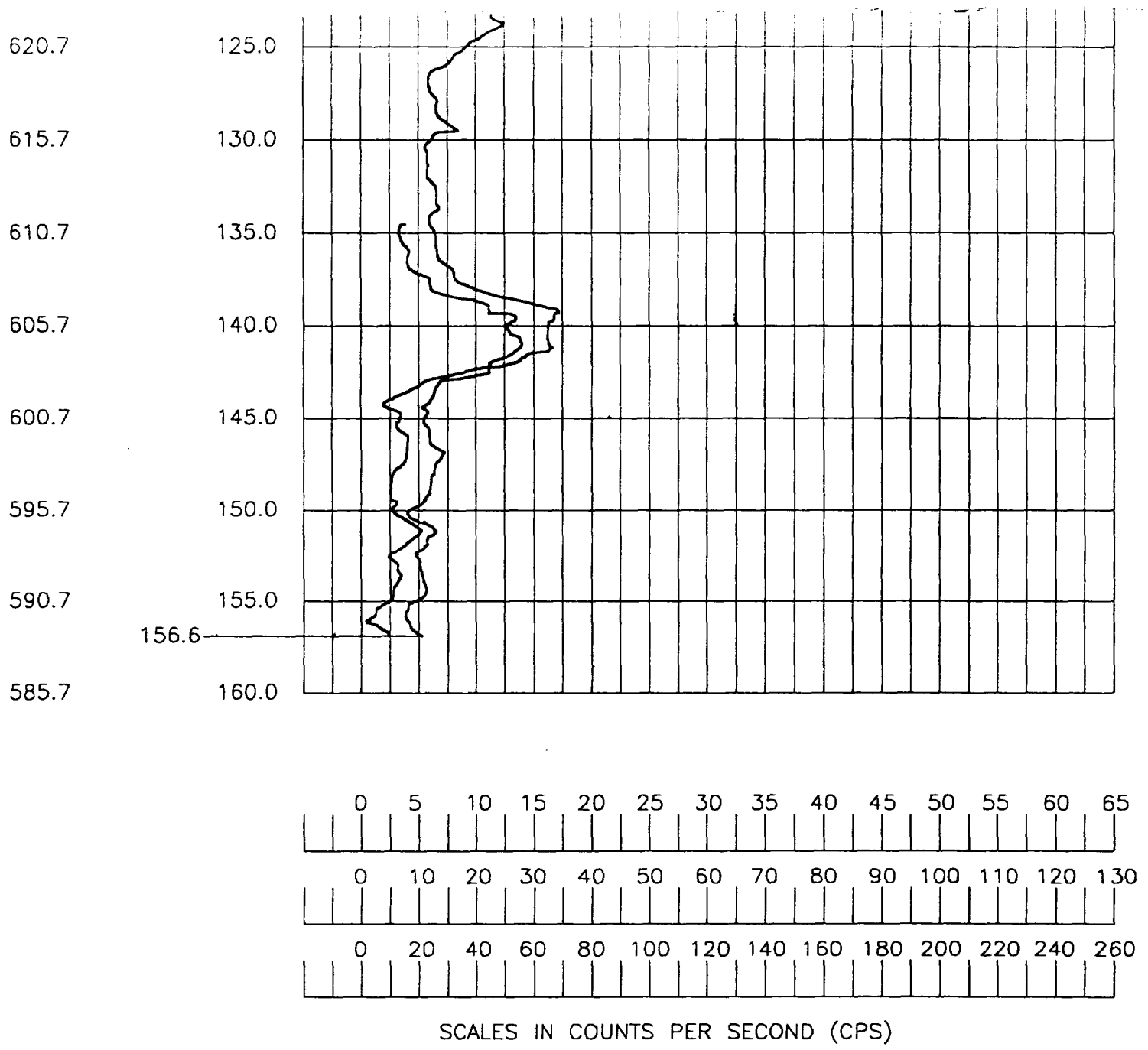
DB1R



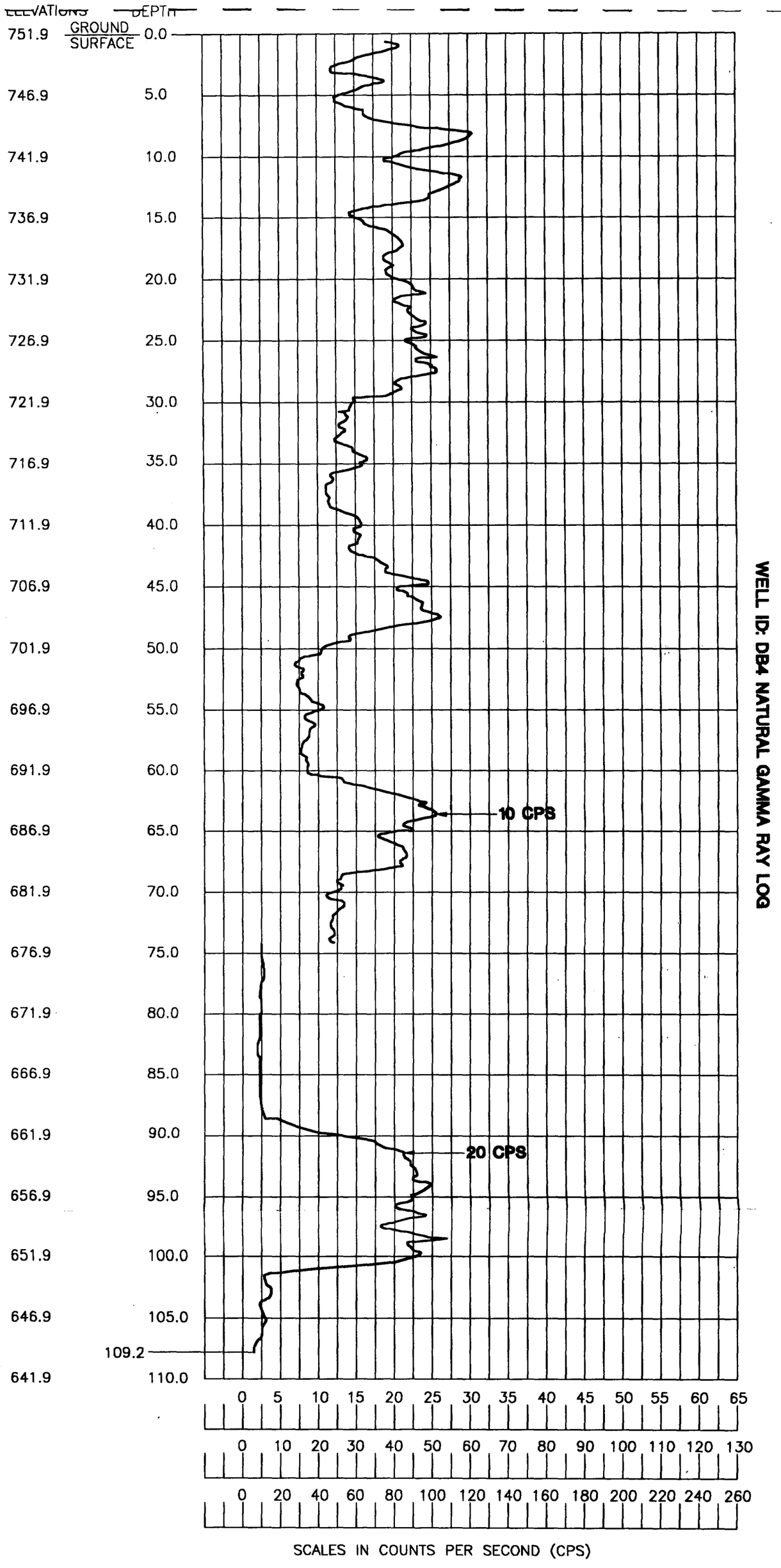
WELL ID: DB2 NATURAL GAMMA RAY LOG

DB2


ELEVATIONS
DEPTH
745.7
GROUND SURFACE
0.0
740.7
5.0
735.7
10.0
730.7
15.0
725.7
20.0
720.7
25.0
715.7
30.0
710.7
35.0
705.7
40.0
700.7
45.0
695.7
50.0
690.7
55.0
685.7
60.0
10 CPS
680.7
65.0
675.7
70.0
670.7
75.0
665.7
80.0
660.7
85.0
655.7
90.0
650.7
95.0
645.7
100.0
640.7
105.0
635.7
110.0
630.7
115.0
625.7
120.0
WELL ID: DB3 NATURAL GAMMA RAY LOG

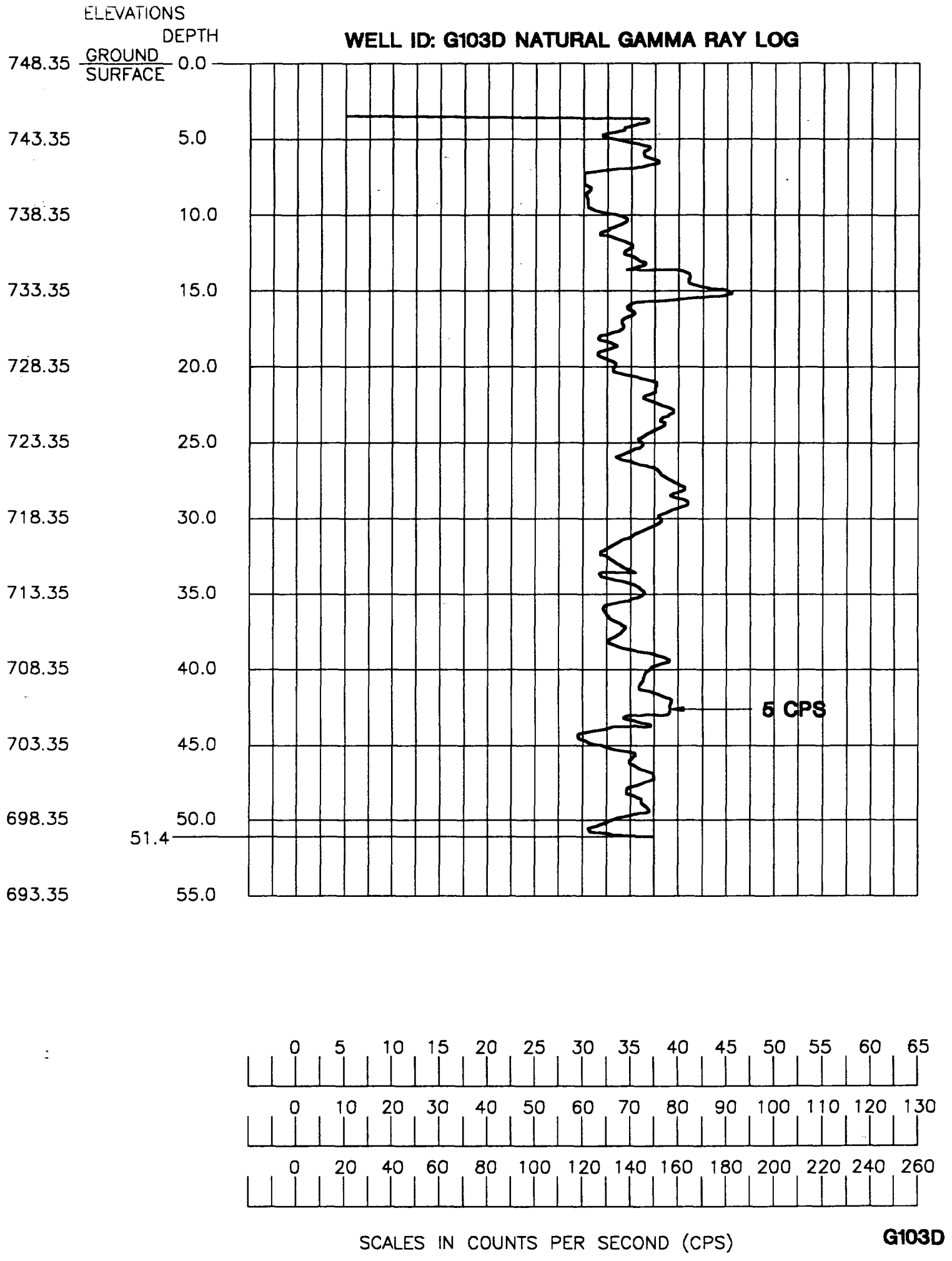
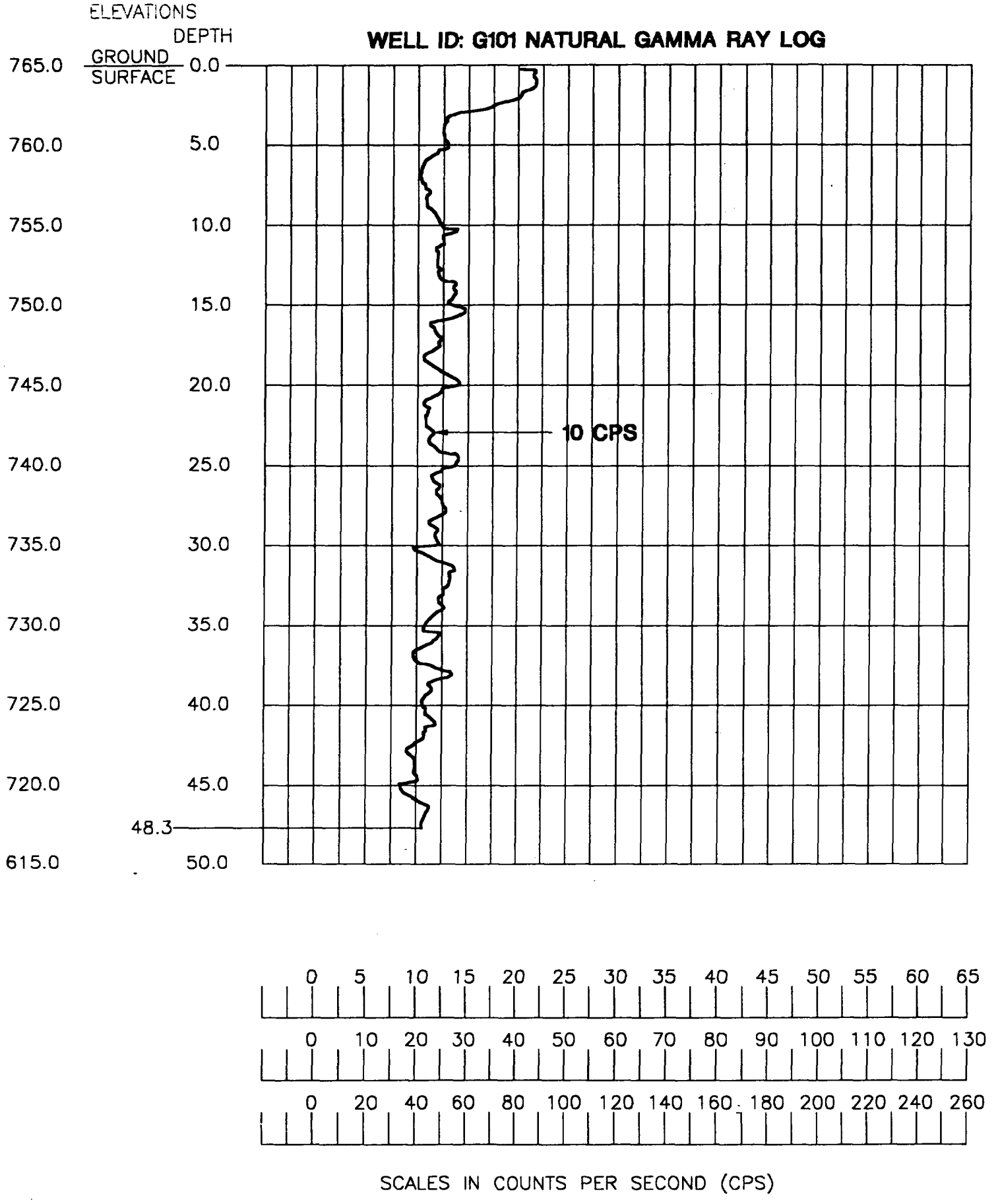

620.7
615.7
610.7
605.7
600.7
595.7
590.7
585.7
125.0
130.0
135.0
140.0
145.0
150.0
155.0
156.6
160.0
0 5 10 15 20 25 30 35 40 45 50 55 60 65
0 10 20 30 40 50 60 70 80 90 100 110 120 130
0 20 40 60 80 100 120 140 160 180 200 220 240 260
SCALES IN COUNTS PER SECOND (CPS)

DB3



WELL ID: DB4 NATURAL GAMMA RAY LOG

DB4


WELL ID: G103D NATURAL GAMMA RAY LOG
ELEVATIONS
DEPTH
GROUND SURFACE
748.35
0.0
743.35
5.0
738.35
10.0
733.35
15.0
728.35
20.0
723.35
25.0
718.35
30.0
713.35
35.0
708.35
40.0
703.35
45.0
698.35
50.0
51.4
693.35
55.0
5 CPS
0 5 10 15 20 25 30 35 40 45 50 55 60 65
0 10 20 30 40 50 60 70 80 90 100 110 120 130
0 20 40 60 80 100 120 140 160 180 200 220 240 260
SCALES IN COUNTS PER SECOND (CPS)
G103D

WELL ID: G101 NATURAL GAMMA RAY LOG