

Appendix J
Well Construction Diagrams/Well Records



PROJECT NUMBER

NJ022948 GF WT

BORING NUMBER

08MW3

SHEET 1 OF 1

WELL COMPLETION LOG

PROJECT Stepan Co. and Sears and Adjacent Properties RI

LOCATION Maywood, NJ

ELEVATION 47.2 (GS); 48.80 (inner casing)

DRILLING CONTRACTOR Environmental Drilling Inc., West Creek, NJ

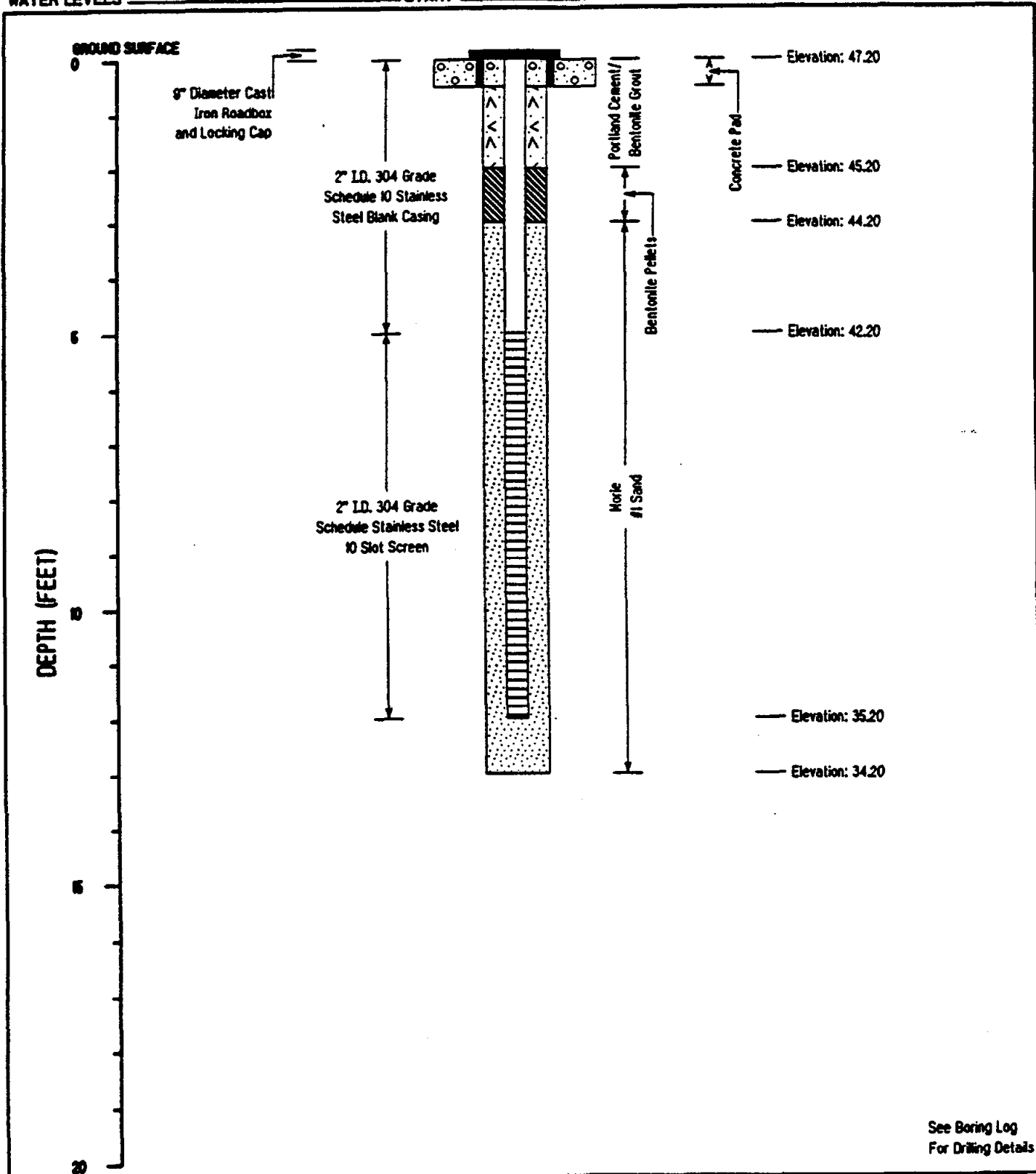
DRILLING METHOD AND EQUIPMENT Mobile B81 HSA 4 1/4" I.D.

WATER LEVELS 4.47 (ft); 42.33 (MSL), 6/22/92

START 4-23-92

FINISH 4-23-92

LOGGER L. Vogel, S. Vozza



MONITORING WELL RECORD

Well Permit No. 26 - 28447

Atlas Sheet Coordinates 25 : 67 : 535

IDENTIFICATION - Owner CUMBERLAND FARMS, INC.
777 INDIAN STREET
CANTON State MA Zip Code 02021

LOCATION - If not the same as owner please give address. Owner's Well No. OBMW-3
Bergen Municipality Lot No. 1 Block No. 124
239 N/S Rt. 17, Mayswood, NJ HAYWOOD ROAD

DATE OF WELL (as per Well Permit Categories) DEVELOPED 4/28/92 (COMPLETED)
Monitoring Program Requiring Well MONITORING Date well completed 3 / 9 / 92
Case I.D. # 10105
Drilling Firm/Field Supervisor (if applicable) CH2M HILL Tele. # 1 201 316-9300

CONSTRUCTION

Depth drilled 13 ft.

Cased to 12 ft.

Casing diameter:
8 in.

Screen diameter:
8 in.

Casing finished: ☐ above grade
☒ flush mounted

Cased above grade, casing
stick up) above land
ft.

Steel protective casing installed?

☐ No

Water level after drilling 6 ft.

Level was measured using M Scope

Well is developed for 1 1/2 hours at 2+ gpm

Method of development submersible Pump

Permanent pumping equipment installed? ☐ Yes ☒ No

Capacity NA gpm

Well type: NA

Method Hollow Stem Auger

Fluid NA Type of Rig Mobile B-61

Driller Robert Atkinson

Well and Safety Plan submitted? ☐ Yes ☐ No

Protection used on site (circle one) None D C B A

Permit No. 1 1478

Drilling Company ENVIRONMENTAL DRILLING, INC.

I declare that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable rules and regulations.

Driller's Signature [Signature]

Date 6/17/92

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0'	4'	2"	Stainless Steel
Outer Casing (Not Protective Casing)	NA	NA	NA	
Screen (Note slot size)	4'	12'	2"	Stainless steel .010
Tail Piece	NA	NA	NA	
Gravel Pack	2'	12'	8"	# 1 Gravel
Annular Seal/Grout	0'	2'	8"	Cement
Method of Grouting	Tremie Pressure			

GEOLOGIC LOG

(Copies of other geologic logs and/or geophysical logs should be attached.)

0'-8' fill

8'-13' weathered rock



PROJECT NUMBER

NJ022948 ST W1

BORING NUMBER

ORMW2

SHEET 1 OF 1

WELL COMPLETION LOG

PROJECT Stepan Co. and Sears and Adjacent Properties RI

LOCATION Maywood, NJ

ELEVATION 54.9 (GS); 54.40 (inner casing)

DRILLING CONTRACTOR Environmental Drilling Inc., West Creek, NJ

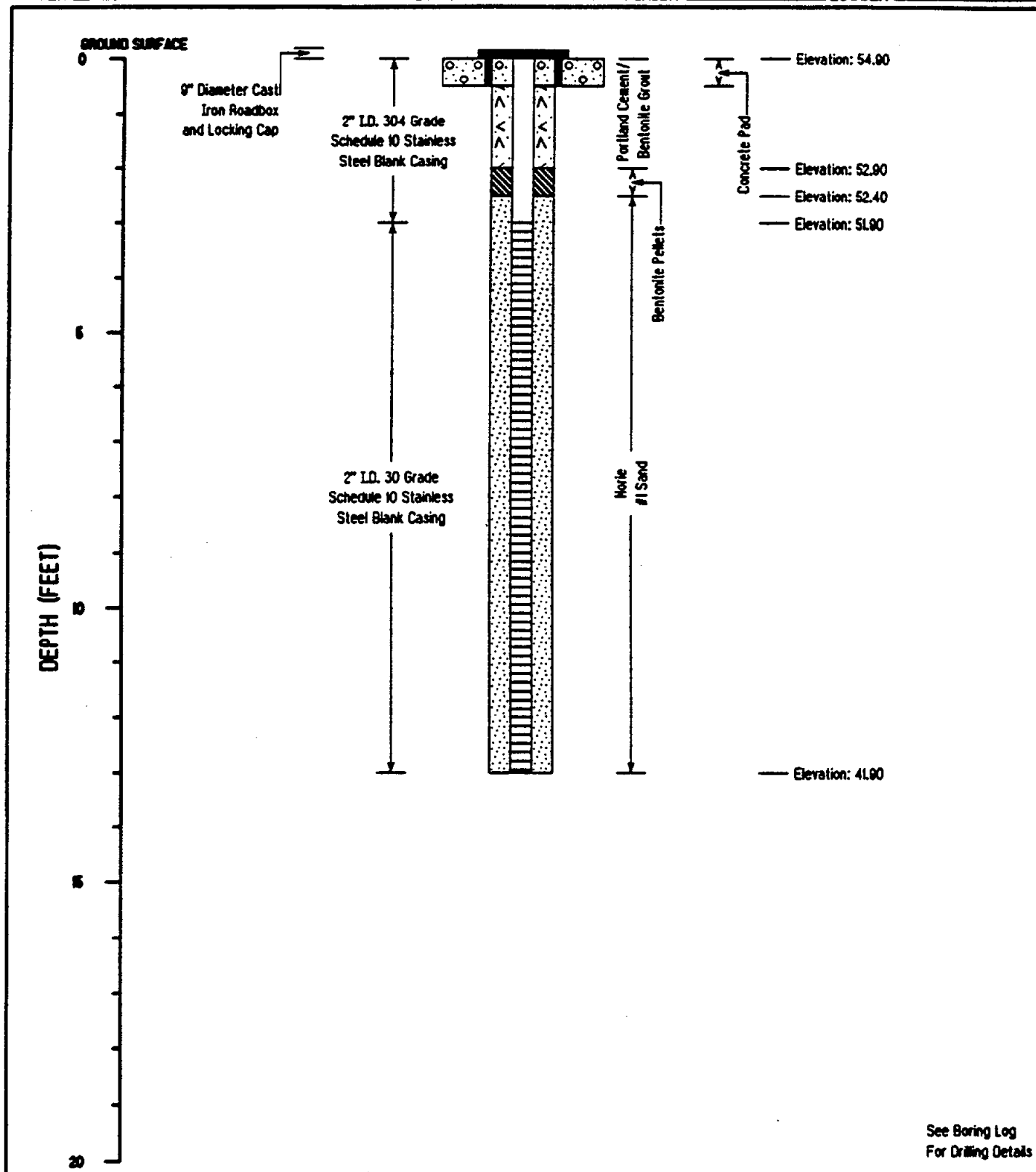
DRILLING METHOD AND EQUIPMENT Mobile B81 HSA 8 1/4" ID

WATER LEVELS 5.11 (ft); 49.29 (MSL), 6/22/92

START 4-22-92

FINISH 4-22-92

LOGGER L. Vogel



MONITORING WELL RECORD

Well Permit No. 26 - 28469
Atlas Sheet Coordinates 26 : 03 : 535OWNER IDENTIFICATION - Owner STEPAN COMPANY
Address 22 WEST FRONTAGE ROAD
City NORTHFIELD State IL Zip Code 60093WELL LOCATION - If not the same as owner please give address. Owner's Well No. OBMW-2
County Bergen Municipality MAYWOOD BORO Lot No. 32 Block No. 124
Address 100 West Hunter Avenue, Maywood, NJTYPE OF WELL (as per Well Permit Categories) DEVELOPED 4/22/92 (COMPLETED)
Regulatory Program Requiring Well MONITORING Date well completed 3 / 02 / 92
Case I.D. # 18105CONSULTING FIRM/FIELD SUPERVISOR (if applicable) CH2M HILL Tele. # 609 795-6800

WELL CONSTRUCTION

Total depth drilled 13 ft.Well finished to 13 ft.

Borehole diameter:

Top 8 in.Bottom 8 in.Well was finished: ☐ above grade
☒ flush mountedIf finished above grade, casing
height (stick up) above land
surface ft.

Was steel protective casing installed?

☐ Yes ☒ NoStatic water level after drilling 10 ft.Water level was measured using M ScopeWell was developed for 2 1/2 hours at 2+ gpmMethod of development Submersible PumpWas permanent pumping equipment installed? ☐ Yes ☒ NoPump capacity NA gpmPump type: NADrilling Method Hollow Stem AugerDrilling Fluid NA Type of Rig Mobile B-61Name of Driller Robert AtkinsonHealth and Safety Plan submitted? ☐ Yes ☐ No

Level of Protection used on site (circle one) None D C B A

N.J. License No. 1478Name of Drilling Company ENVIRONMENTAL DRILLING INC.

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0'	3'	2"	Stainless Steel
Outer Casing (Not Protective Casing)	NA	NA	NA	
Screen (Note slot size)	3'	13'	2"	Stainless Steel .010
Tail Piece	NA	NA	NA	
Gravel Pack	1'	13'	8"	# 1 Gravel
Annular Seal/Grout	0'	1'	8"	Cement
Method of Grouting	Gravity			

GEOLOGIC LOG

(Copies of other geologic logs and/or
geophysical logs should be attached.)0'-10' fill
10'-13' weathered rockI certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable
State rules and regulations.Driller's Signature Robert AtkinsonDate 6/18/92

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.



PROJECT NUMBER

NJ022948 SR WT

BORING NUMBER

08MW1

SHEET 1 OF 1

WELL COMPLETION LOG

PROJECT Stepan Co. and Sears and Adjacent Properties RI

LOCATION Maywood, NJ

ELEVATION 49.4 (GS); 48.82 (inner casing)

DRILLING CONTRACTOR Environmental Drilling Inc., West Creek, NJ

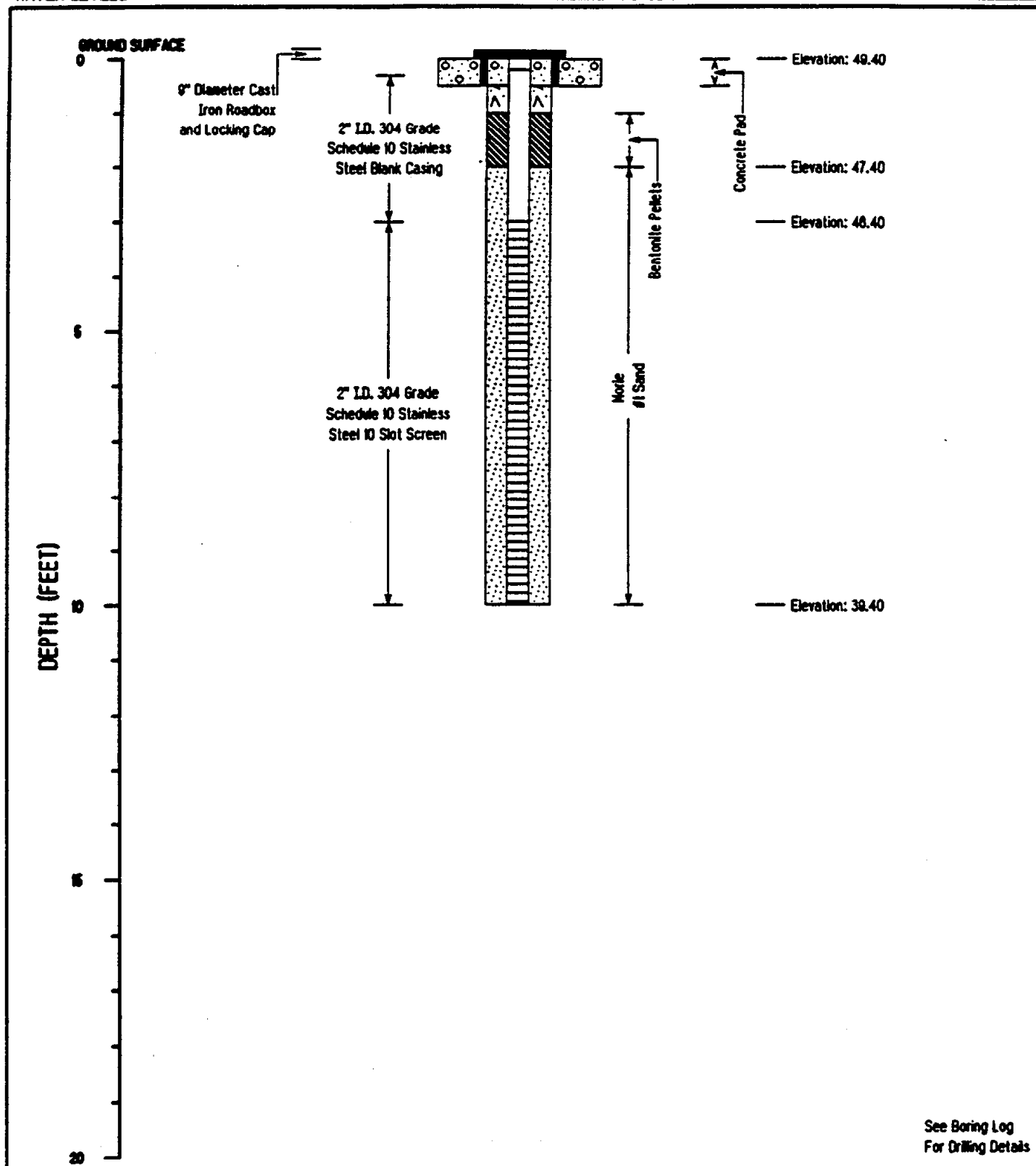
DRILLING METHOD AND EQUIPMENT Mobile 861 HSA 4 1/4 I.D.

WATER LEVELS 5.00 (ft); 43.82 (MSL), 8/22/92

START 4-27-92

FINISH 4-27-92

LOGGER L. Vogel



MONITORING WELL RECORD

Well Permit No. 76 - 24450
Atlas Sheet Coordinates 76 : 03 : 535OWNER IDENTIFICATION - Owner KIN PROPERTIES
Address 77 TARRYTOWN RD. SUITE 100
City WHITE PLAINS State NY Zip Code 10607WELL LOCATION - If not the same as owner please give address. Owner's Well No. OBMW-1
County Bergen Municipality MAYWOOD BORO Lot No. 30 Block No. 124
Address 149-151 Maywood Ave., Maywood, NJ **DEVELOPED 4/27/92 (COMPLETED)**
TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 4 / 01 / 92
Regulatory Program Requiring Well CERCLA Case I.D. # 10105
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) CH2M HILL Tele. # 1 201 316-9300

WELL CONSTRUCTION

Total depth drilled 10 ft.Well finished to 10 ft.

Borehole diameter:

Top 8 in.Bottom 8 in.Well was finished: ☐ above grade
☒ flush mountedIf finished above grade, casing
height (stick up) above land
surface ft.

Was steel protective casing installed?

☐ Yes ☒ NoStatic water level after drilling 4 ft.Water level was measured using M ScopeWell was developed for 1 hours at 2+ gpmMethod of development submersible PumpWas permanent pumping equipment installed? ☐ Yes ☒ NoPump capacity NA gpmPump type: NADrilling Method Hollow Stem AugerDrilling Fluid NA Type of Rig Mobile B-61Name of Driller Robert AtkinsonHealth and Safety Plan submitted? ☐ Yes ☐ No

Level of Protection used on site (circle one) None D C B A

N.J. License No. J 1478Name of Drilling Company ENVIRONMENTAL DRILLING, INC.

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0'	3'	2"	Stainless Steel
Outer Casing (Not Protective Casing)	NA	NA	NA	
Screen (Note slot size)	3'	10'	2"	Stainless Steel
Tail Piece	NA	NA	NA	
Gravel Pack	1'	10'	8"	#1 Gravel
Annular Seal/Grout	0'	1'	8"	grout/cement
Method of Grouting	gravity			

GEOLOGIC LOG

(Copies of other geologic logs and/or
geophysical logs should be attached.)0'-4' glacial till
4'-10' weathered rockI certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable
State rules and regulations.Driller's Signature [Signature]Date 4-1-92



PROJECT NUMBER

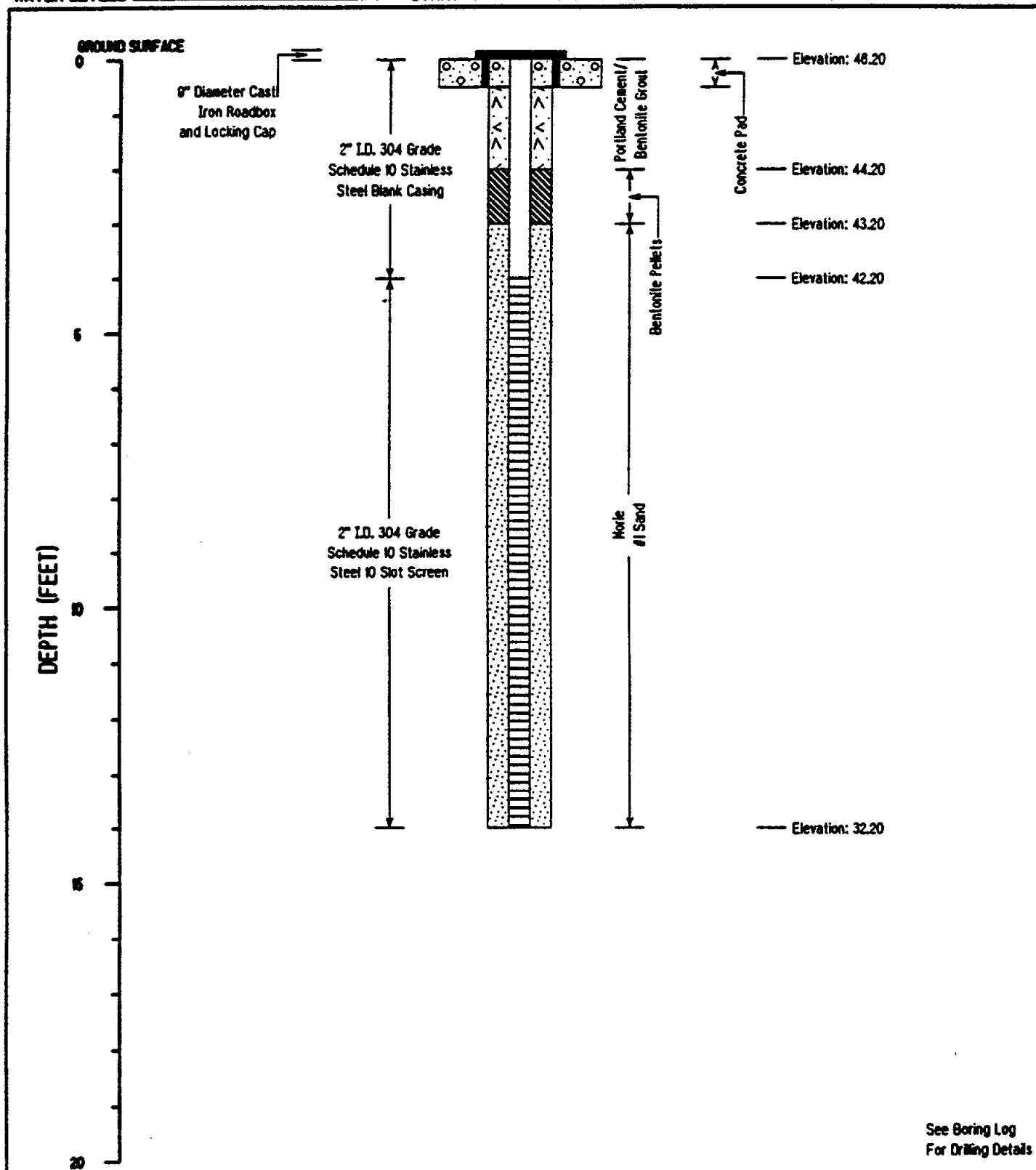
NJ022948 SR.WT

BORING NUMBER

08MW4

SHEET 1 OF 1

WELL COMPLETION LOG

PROJECT Stegan Co. and Sears and Adjacent Properties RILOCATION Maywood, NJELEVATION 46.2 (GS); 45.96 (inner casing)DRILLING CONTRACTOR Environmental Drilling Inc., West Creek, NJDRILLING METHOD AND EQUIPMENT Mobile B81 HSA 4 1/4" I.D.WATER LEVELS 2.49 (ft); 43.47 (MSL), 8/22/92START 4-28-92FINISH 4-28-92LOGGER L. Vogel

MONITORING WELL RECORD

Well Permit No. 26 - 28451
Atlas Sheet Coordinates 113 : 113 : 131

OWNER IDENTIFICATION - Owner REN PROPERTIES
Address 77 TARRYTOWN RD SUITE 100
City WHITE PLAINS State NY Zip Code 02021 10607

WELL LOCATION - If not the same as owner please give address. Owner's Well No. OBMW-4
County Bergen Municipality MAYWOOD HORO Lot No. 30 Block No. 124
Address 239 N/S Rt. 17, Maywood, NJ DEVELOPED 4/28/92 (COMPLETED)

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 4 / 02 / 92
Regulatory Program Requiring Well CH2M HILL Case I.D. # 10105
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) CH2M HILL Tele. # 1 201 316-9300

WELL CONSTRUCTION

Total depth drilled 14 ft.

Well finished to 14 ft.

Borehole diameter:

Top 8 in.

Bottom 8 in.

Well was finished: ☐ above grade
☒ flush mounted

If finished above grade, casing height (stick up) above land surface ft.

Was steel protective casing installed?

☐ Yes ☒ No

Static water level after drilling 5 ft.

Water level was measured using M Scope

Well was developed for 1 hours at 2+ gpm

Method of development Submersible Pump

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity NA gpm

Pump type: NA

Drilling Method Hollow stem auger

Drilling Fluid NA Type of Rig Mobile B-61

Name of Driller Robert Atkinson

Health and Safety Plan submitted? ☐ Yes ☐ No

Level of Protection used on site (circle one) None D C B A

N.J. License No. J 1478

Name of Drilling Company ENVIRONMENTAL DRILLING

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0'	4'	2"	Stainless Steel
Outer Casing (Not Protective Casing)	NA	NA	NA	
Screen (Note slot size)	4'	14'	2"	Stainless Steel slot .010
Tail Piece	NA	NA	NA	
Gravel Pack	2'	14'	8"	#1 Gravel
Annular Seal/Grout	0'	2'	8"	Cement
Method of Grouting	Gravity			

GEOLOGIC LOG

(Copies of other geologic logs and/or geophysical logs should be attached.)

0'-5' silty sand
5'-9' sand
9'-14' weathered rock

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature [Signature]

Date 6/17/92



PROJECT NUMBER

NJ022948 SN WT

BORING NUMBER

08MWS

SHEET 1 OF 1

WELL COMPLETION LOG

PROJECT Stepan Co. and Sears and Adjacent Properties RI

LOCATION Maywood, NJ

ELEVATION 46.4 (GS); 46.13 (inner casing)

DRILLING CONTRACTOR Environmental Drilling Inc., West Creek, NJ

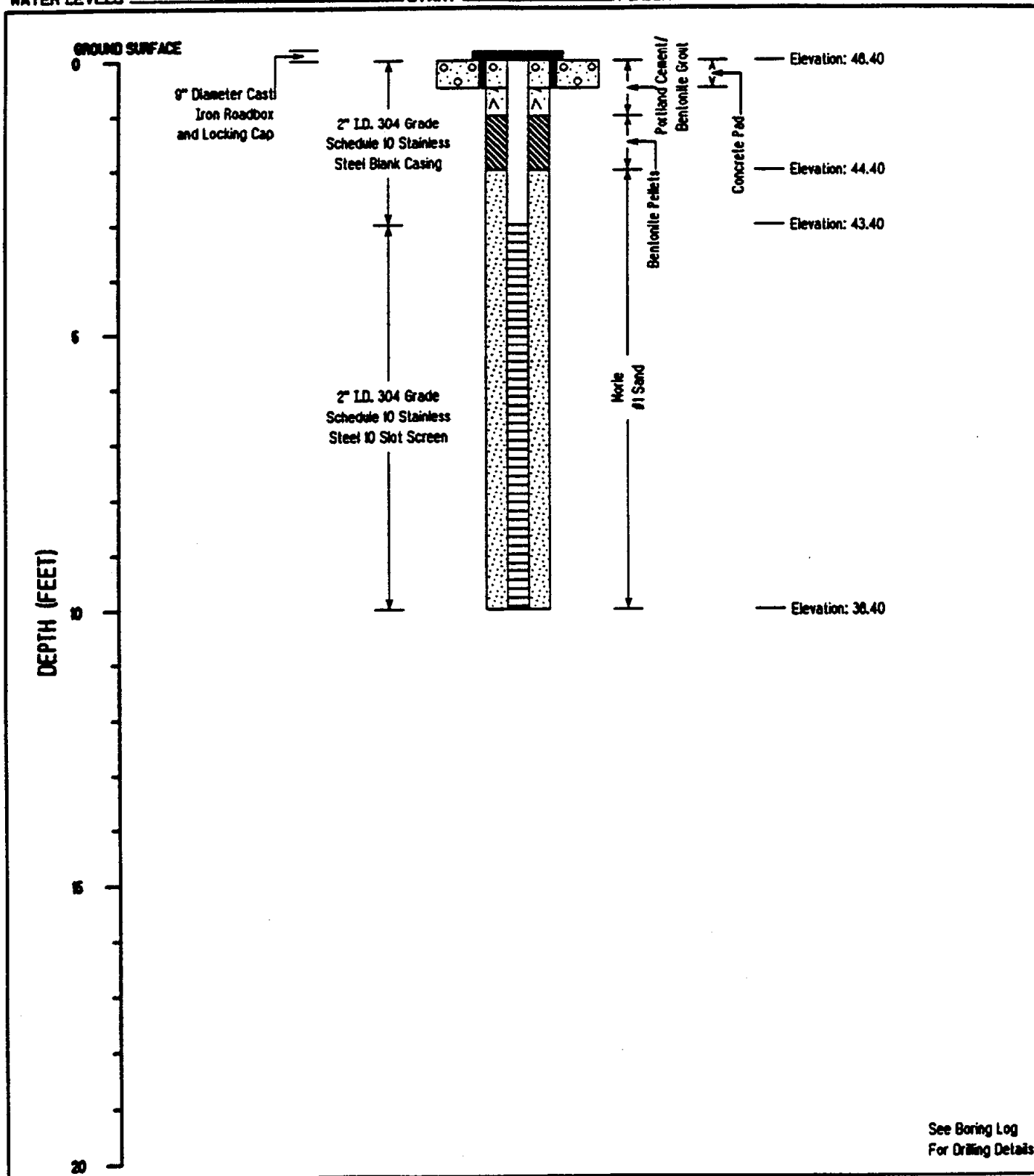
DRILLING METHOD AND EQUIPMENT Mobile B61 HSA 4 1/4" I.D.

WATER LEVELS 3.95 (ft); 42.18 (MSL), 6/22/92

START 4-29-92

FINISH 4-29-92

LOGGER L. Vogel



MONITORING WELL RECORD

Well Permit No. 26 - 28448
Atlas Sheet Coordinates 26 : 03 : 535OWNER IDENTIFICATION - Owner SEI OIL CORPORATION
Address 1801 MARKET STREET
City PHILADELPHIA State PA Zip Code 19103WELL LOCATION - If not the same as owner please give address. Owner's Well No. OBMW-5
County Bergen Municipality MAYWOOD HAVEN Lot No. 2 Block No. 124
Address 167 N/8 Rt. 17, Maywood, NJTYPE OF WELL (as per Well Permit Categories) DEVELOPED 4/29/92 (COMPLETED)
Regulatory Program Requiring Well MONITORING Date well completed 3 / 09 / 92
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) CH2M HILL Case I.D. # 10105 Tele. # 1 201 316-9300

WELL CONSTRUCTION

Total depth drilled 10 ft.Well finished to 10 ft.

Borehole diameter:

Top 8 in.Bottom 8 in.Well was finished: ☐ above grade
☒ flush mountedIf finished above grade, casing
height (stick up) above land
surface ft.

Was steel protective casing installed?

☐ Yes ☒ NoStatic water level after drilling 5 ft.Water level was measured using M ScopeWell was developed for 1 hours at 2+ gpmMethod of development Submersible PumpWas permanent pumping equipment installed? ☐ Yes ☒ NoPump capacity NA gpmPump type: NADrilling Method Hollow Stem AugerDrilling Fluid NA Type of Rig Mobile B-61Name of Driller Robert AtkinsonHealth and Safety Plan submitted? ☐ Yes ☐ No

Level of Protection used on site (circle one) None D C B A

N.J. License No. J 1478Name of Drilling Company WATERWELL DRILLING INC.

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0'	4'	2"	Stainless Steel
Outer Casing (Not Protective Casing)	NA	NA	NA	
Screen (Note slot size)	4'	10'	2"	Stainless Steel .010
Tail Piece	NA	NA	NA	
Gravel Pack	2'	10'	8"	#1 Gravel
Annular Seal/Grout	0'	2'	8"	Cement
Method of Grouting	Gravity			

GEOLOGIC LOG

(Copies of other geologic logs and/or
geophysical logs should be attached.)

0'-8' fill

8'-10' weathered rock

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable
State rules and regulations.Driller's Signature Robert Atkinson

Date

6/18/92



PROJECT NUMBER

NJ022948 SR WT

BORING NUMBER

08MW6

SHEET 1 OF 1

WELL COMPLETION LOG

PROJECT Stepan Co. and Sears and Adjacent Properties RI

LOCATION Maywood, NJ

ELEVATION 48.8 (GS); 48.94 (inner casing)

DRILLING CONTRACTOR Environmental Drilling Inc., West Creek, NJ

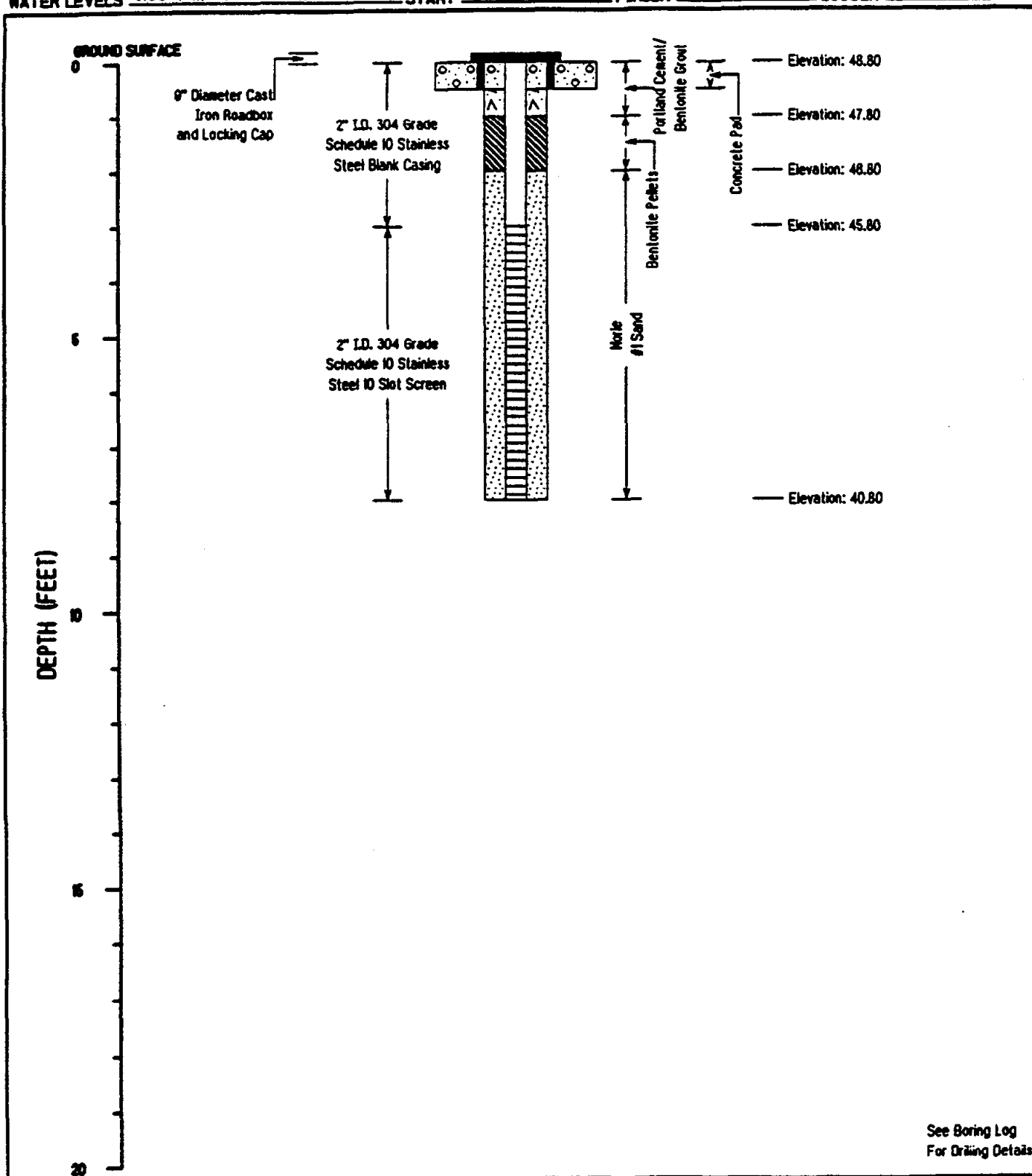
DRILLING METHOD AND EQUIPMENT Mobile B61 HSA 4 1/4" I.D.

WATER LEVELS 3.00 (ft); 45.94 (MSL), 8/22/92

START 4-30-92

FINISH 4-30-92

LOGGER L. Vogel



MONITORING WELL RECORD

Well Permit No. 26 - 28452
Atlas Sheet Coordinates 26 : 03 : 535OWNER IDENTIFICATION - Owner KIN PROPERTIES
Address 77 TARRYTOWN RD SUITE 100
City WHITE PLAINS State NY Zip Code 10607

WELL LOCATION - If not the same as owner please give address.

County Bergen Municipality MAYWOOD BORO Lot No. 30 Block No. 124
Address 239 N/S Rt 17, Maywood, NJOwner's Well No. OBMW-6

TYPE OF WELL (as per Well Permit Categories)

Regulatory Program Requiring Well MONITORINGDate well completed 4/30/92Case I.D. # 10105

CONSULTING FIRM/FIELD SUPERVISOR (if applicable)

CH2M HILLTele. # 201 316-9300

WELL CONSTRUCTION

Total depth drilled 8 ft.Well finished to 8 ft.

Borehole diameter:

Top 8 in.Bottom 8 in.Well was finished: ☐ above grade
☒ flush mountedIf finished above grade, casing
height (stick up) above land
surface ft.

Was steel protective casing installed?

☐ Yes ☒ NoStatic water level after drilling 3 ft.Water level was measured using M ScopeWell was developed for 2 1/2 hours at 2+ gpmMethod of development Submersible PumpWas permanent pumping equipment installed? ☐ Yes ☒ NoPump capacity NA gpmPump type: NADrilling Method Hollow Stem AugerDrilling Fluid NA Type of Rig Mobile B-61Name of Driller Robert AtkinsonHealth and Safety Plan submitted? ☐ Yes ☐ No

Level of Protection used on site (circle one) None D C B A

N.J. License No. J 1478Name of Drilling Company ENVIRONMENTAL DRILLING, INC.

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0'	3'	2"	Stainless Steel
Outer Casing (Not Protective Casing)	NA	NA	NA	
Screen (Note slot size)	3'	8'	2"	Stainless Steel .010
Tail Piece	NA	NA	NA	
Gravel Pack	1'	8'	8"	#1 Gravel
Annular Seal/Grout	0'	1'	8"	Cement
Method of Grouting	Gravity			

GEOLOGIC LOG

(Copies of other geologic logs and/or
geophysical logs should be attached.)0'-7' fine sand
7'-8' weathered rockI certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable
State rules and regulations.Driller's Signature [Signature]Date 6/17/92

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.



PROJECT NUMBER

NJ022948 SR WT

BORING NUMBER

08MW7

SHEET 1 OF 1

WELL COMPLETION LOG

PROJECT Stepan Co. and Sears and Adjacent Properties RI

LOCATION Maywood, NJ

ELEVATION 45.6 (GS); 44.95 (inner casing)

DRILLING CONTRACTOR Environmental Drilling Inc., West Creek, NJ

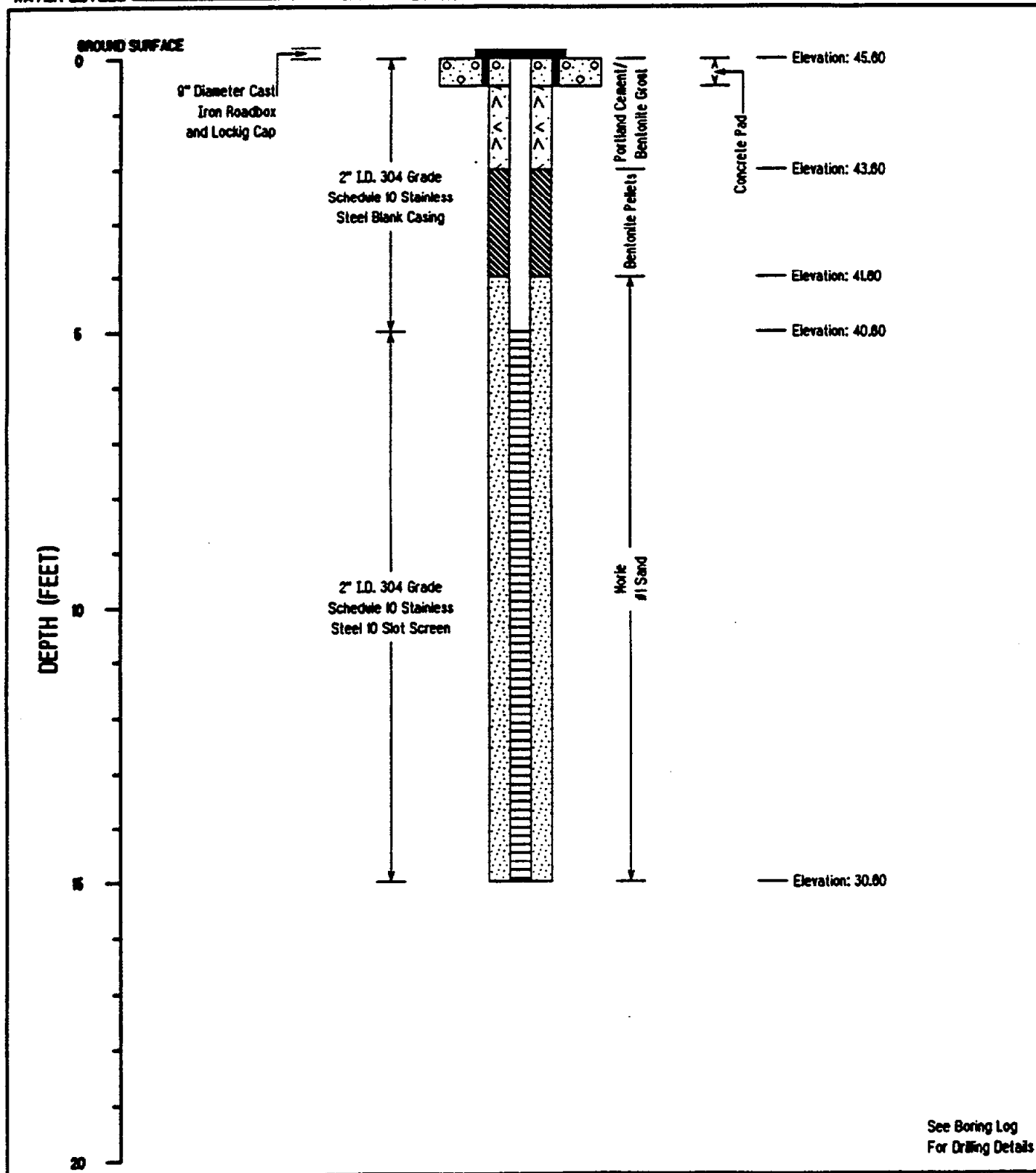
DRILLING METHOD AND EQUIPMENT Mobile 881 HSA 4 1/4" I.D.

WATER LEVELS 1.94 (ft); 43.01 (MSL), 8/22/92

START 4-30-92

FINISH 4-30-92

LOGGER S. Repko



MONITORING WELL RECORD

Well Permit No. 26 - 28453
Atlas Sheet Coordinates 26 : 03 : 50OWNER IDENTIFICATION - Owner REN PROPERTIES
Address 77 TARRYTOWN RD. SUITE 100
City WHITE PLAINS State NY Zip Code 02021 10607WELL LOCATION - If not the same as owner please give address. Owner's Well No. OBMW-7
County Bergen Municipality MAYWOOD HURD Lot No. 30 Block No. 124
Address Sears - 149-151 Maywood Ave., Maywood, N.J. **DEVELOPED 4/30/92 (COMPLETED)**TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 4 / 15 / 92
Regulatory Program Requiring Well CRCL Case I.D. # 10105
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) CH2M HILL Tele. #

WELL CONSTRUCTION

Total depth drilled 15 ft.Well finished to 15 ft.

Borehole diameter:

Top 8 in.Bottom 8 in.Well was finished: ☐ above grade
☒ flush mountedIf finished above grade, casing
height (stick up) above land
surface ft.

Was steel protective casing installed?

☐ Yes ☒ NoStatic water level after drilling 7 ft.Water level was measured using M ScopeWell was developed for 1 1/2 hours at 2+ gpmMethod of development Submersible PumpWas permanent pumping equipment installed? ☐ Yes ☒ NoPump capacity NA gpmPump type: NADrilling Method Hollow Stem AugerDrilling Fluid NA Type of Rig Mobile B-80Name of Driller Thomas LynchHealth and Safety Plan submitted? ☐ Yes ☐ No

Level of Protection used on site (circle one) None D C B A

N.J. License No. 1499Name of Drilling Company ENVIRONMENTAL DRILLING INC

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Thomas LynchDate 6/18/92

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0'	5'	2"	PVC Stain.Steel
Outer Casing (Not Protective Casing)	NA	NA	NA	
Screen (Note slot size)	5'	15'	2"	Stain.Steel .010
Tail Piece	NA	NA	NA	
Gravel Pack	3'	15'	8"	#1 Gravel
Annular Seal/Grout	0'	3'	8"	Cement
Method of Grouting	Gravity			

GEOLOGIC LOG

(Copies of other geologic logs and/or geophysical logs should be attached.)

0'-5' fill
5'-11' clay
11'-15' silt sand and gravels



PROJECT NUMBER

N1022948 FH WT

BORING NUMBER

08MWR

SHEET 1 OF 1

WELL COMPLETION LOG

PROJECT Stepan Co. and Sears and Adjacent Properties RI

LOCATION Maywood, NJ

ELEVATION 45.7 (GS); 45.55 (inner casing)

DRILLING CONTRACTOR Environmental Drilling Inc., West Creek, NJ

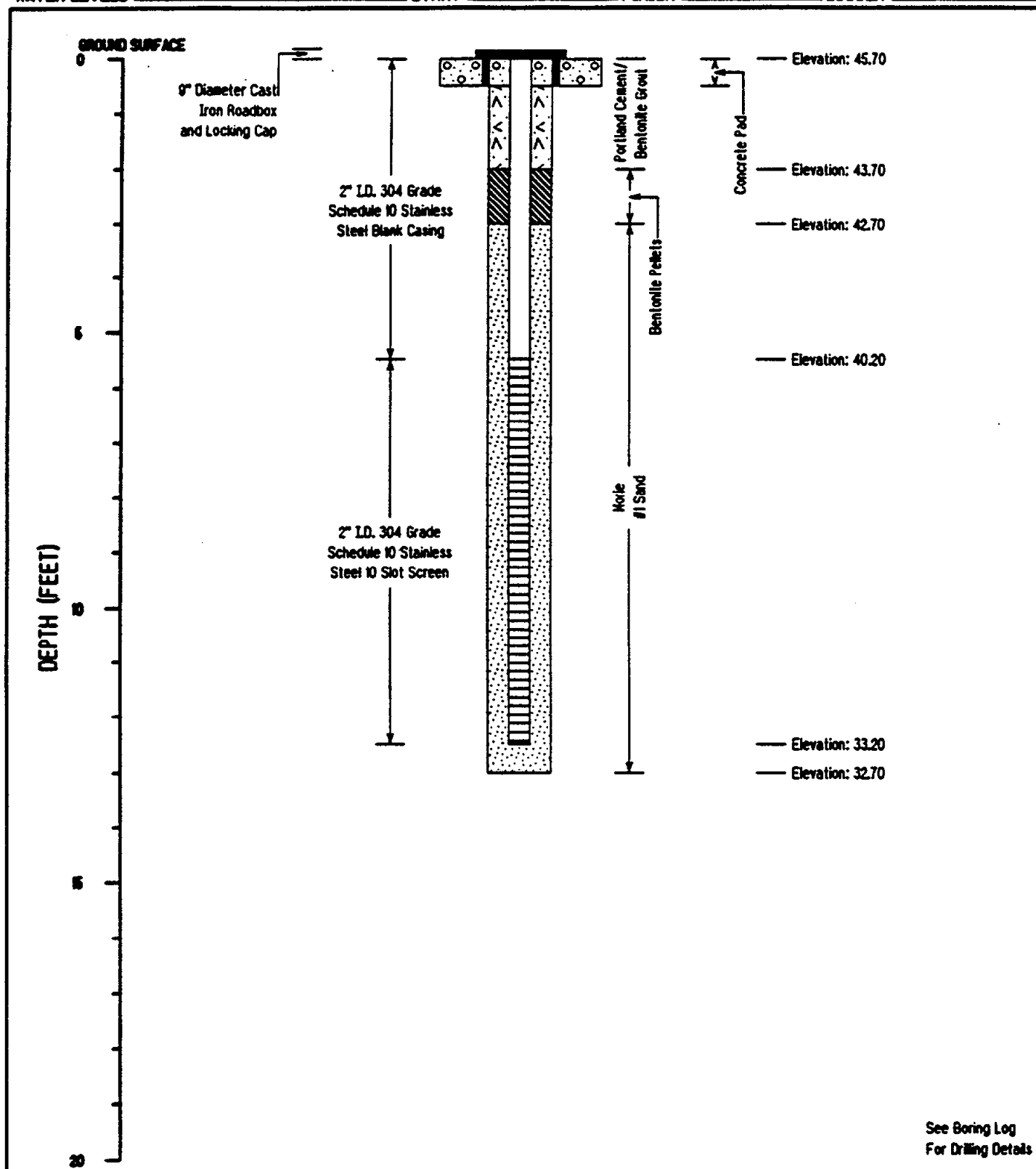
DRILLING METHOD AND EQUIPMENT Mobile B80 HSA 4 1/4" I.D.

WATER LEVELS 4.71 (ft); 40.84 (MSL), 6/22/92

START 4-24-92

FINISH 4-24-92

LOGGER L. Vogel



MONITORING WELL RECORD

Well Permit No. 74 - 79474Atlas Sheet Coordinates 74 : 17 : 00

OWNER IDENTIFICATION - Owner S. W. S. REALTY
Address 500 RT. 178
City HASBROCK HEIGHTS State NJ Zip Code 07604

WELL LOCATION - If not the same as owner please give address. Owner's Well No. OBMW-8
County Bergen Municipality MAYWOOD HURD Lot No. 4 Block No. 124
Address 87 & Rt 17 N Maywood, NJ

TYPE OF WELL (as per Well Permit Categories) MUNICIPAL Date well completed 3/29/92 (COMPLETED)
Regulatory Program Requiring Well CH2M HILL Case I.D. # 10100
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) CH2M HILL Tele. 201 316-9300

WELL CONSTRUCTION

Total depth drilled 13 ft.Well finished to 12.5 ft.

Borehole diameter:

Top 8 in.Bottom 8 in.

Well was finished: ☐ above grade
☒ flush mounted

If finished above grade, casing
height (stick up) above land
surface ft.

Was steel protective casing installed?

☐ Yes ☒ NoStatic water level after drilling 7 ft.Water level was measured using M ScopeWell was developed for 1 hours at 2+ gpmMethod of development Submersible PumpWas permanent pumping equipment installed? ☐ Yes ☒ NoPump capacity NA gpmPump type: NADrilling Method hollow stem augerDrilling Fluid NA Type of Rig Mobile B-61Name of Driller Robert AtkinsonHealth and Safety Plan submitted? ☐ Yes ☐ No

Level of Protection used on site (circle one) None D C B A

N.J. License No. J 1478Name of Drilling Company ENVIRONMENTAL DRILLING, INC.

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0'	5.5'	2"	Stainless Steel
Outer Casing (Not Protective Casing)	NA	NA	NA	
Screen (Note slot size)	5.5'	12.5'	2"	Stainless Steel slot.010
Tail Piece	NA	NA	NA	
Gravel Pack	3.5'	12.5'	8"	# 1 Gravel
Annular Seal/Grout	0'	3.5'	8"	Cement
Method of Grouting	Gravity			

GEOLOGIC LOG

(Copies of other geologic logs and/or
geophysical logs should be attached.)

0'-8' sand

8'-13' weathered rock

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable
State rules and regulations.

Driller's Signature Robert AtkinsonDate 6/17/92



PROJECT NUMBER

NJ022948 SR W1

BORING NUMBER

ORMW10

SHEET 1 OF 1

WELL COMPLETION LOG

PROJECT Stepan Co. and Sears and Adjacent Properties RI

LOCATION Maywood, NJ

ELEVATION 48.5 (GS); 48.09 (inner casing)

DRILLING CONTRACTOR Environmental Drilling Inc., West Creek, NJ

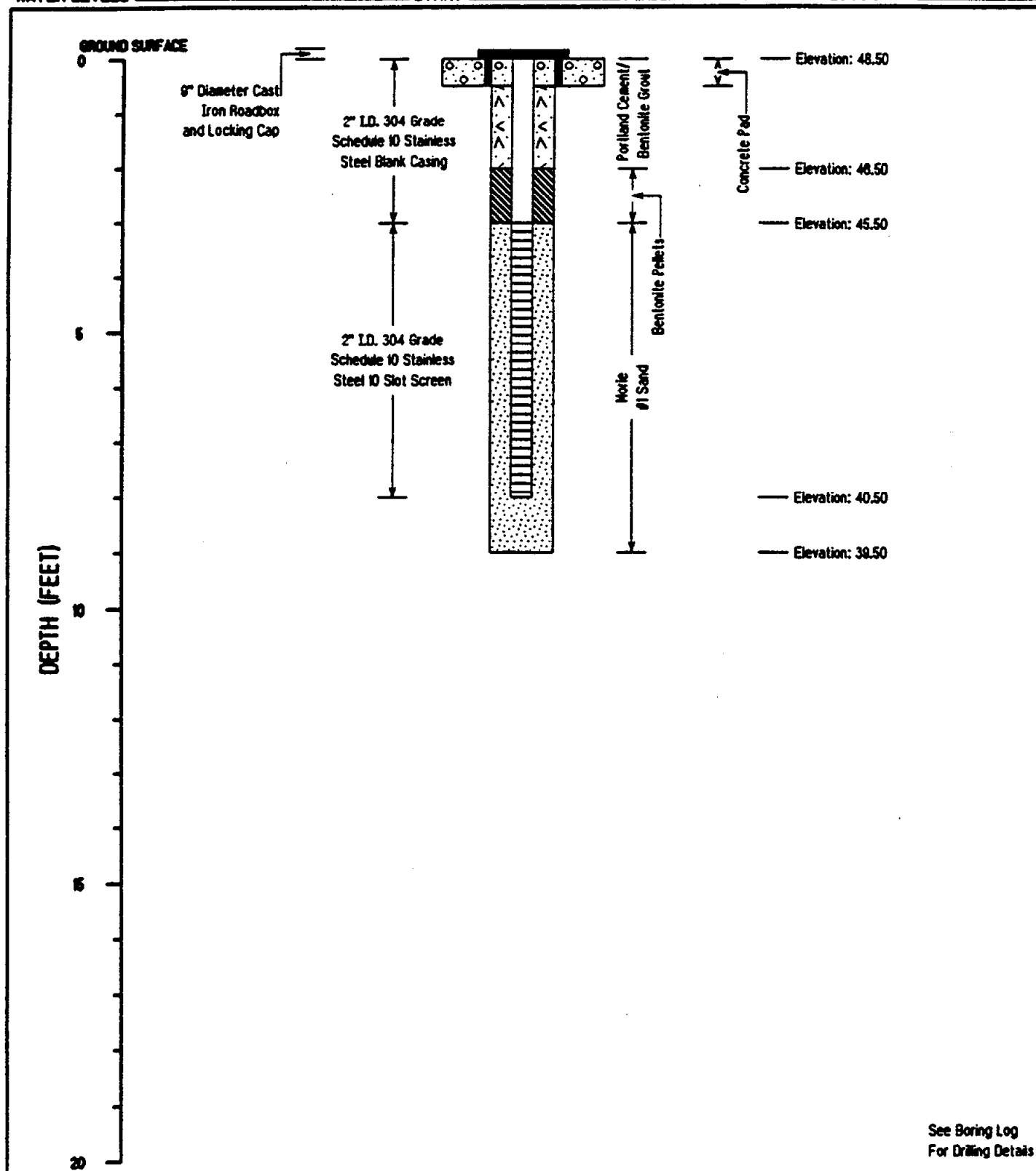
DRILLING METHOD AND EQUIPMENT Mobile B60 HSA 4 1/4" I.D.

WATER LEVELS .11 (ft); 47.98 (MSL), 6/22/92

START 4-28-92

FINISH 4-28-92

LOGGER L. Vogel



MONITORING WELL RECORD

Well Permit No. 26 - 2844-4
Atlas Sheet Coordinates 26 : 02 : 53EOWNER IDENTIFICATION - Owner ICN PROPERTIES
Address 77 TARRYTOWN RD. SUITE 100
City WHITE PLAINS State NY Zip Code 10607WELL LOCATION - If not the same as owner please give address. Owner's Well No. OBMW-10
County Bergen Municipality MAYWOOD HORO Lot No. 30 Block No. 124
Address 149-151 Tarrytown Rd., Maywood, NJTYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 4/30/92 DEVELOPE
Regulatory Program Requiring Well CDECA Case I.D. # 10105CONSULTING FIRM/FIELD SUPERVISOR (if applicable) CH2M HILL Tele. # 201 316-9300

WELL CONSTRUCTION

Total depth drilled 15 ft.Well finished to 15 ft.

Borehole diameter:

Top 8 in.Bottom 8 in.Well was finished: ☐ above grade
☒ flush mountedIf finished above grade, casing
height (stick up) above land
surface ft.

Was steel protective casing installed?

☐ Yes ☒ NoStatic water level after drilling 6 ft.Water level was measured using M ScopeWell was developed for 1 hours at 2+ gpmMethod of development Submersible PumpWas permanent pumping equipment installed? ☐ Yes ☒ NoPump capacity NA gpmPump type: NADrilling Method Hollow stem augerDrilling Fluid NA Type of Rig Mobile B-61Name of Driller Robert AtkinsonHealth and Safety Plan submitted? ☐ Yes ☐ No

Level of Protection used on site (circle one) None D C B A

N.J. License No. 11478Name of Drilling Company ENVIRONMENTAL DRILLING INC.

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0'	5'	2"	Stainless Steel
Outer Casing (Not Protective Casing)	NA	NA	NA	
Screen (Note slot size)	5'	15'	2"	Stainless Steel .010
Tail Piece	NA	NA	NA	
Gravel Pack	3'	15'	8"	# 1 Gravel
Annular Seal/Grout	0'	3'	8"	Cement
Method of Grouting	Gravity			

GEOLOGIC LOG

(Copies of other geologic logs and/or
geophysical logs should be attached.)0'-4' fill
4'-9' sand and gravel
9'-10' weathered rockI certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable
State rules and regulations.Driller's Signature Robert AtkinsonDate 6/17/92

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.



PROJECT NUMBER

NJ022948 SR WT

BORING NUMBER

08MW13

SHEET 1 OF 1

WELL COMPLETION LOG

PROJECT Stepan Co. and Sears and Adjacent Properties RI

LOCATION Maywood, NJ

ELEVATION 47.7 (GS); 47.26 (inner casing)

DRILLING CONTRACTOR Environmental Drilling Inc., West Creek, NJ

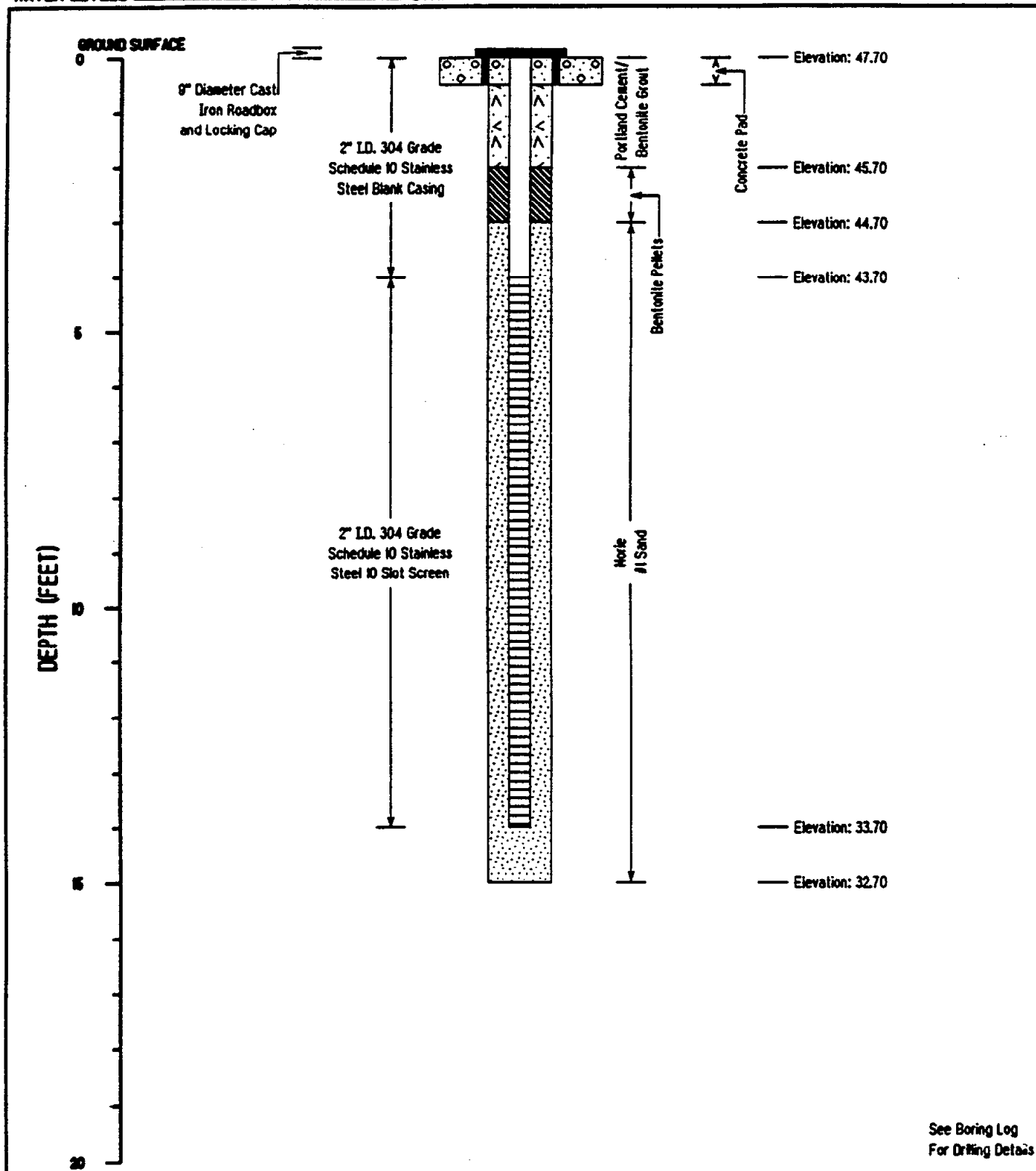
DRILLING METHOD AND EQUIPMENT Mobile B80 HSA 4 1/4" I.D.

WATER LEVELS 3.93 (ft); 43.33 (MSL), 8/22/92

START 4-23-92

FINISH 4-23-92

LOGGER S. Vozza



MONITORING WELL RECORD

Well Permit No. 26 - 28456
Atlas Sheet Coordinates 26 : 04 : 146

OWNER IDENTIFICATION - Owner KIN PROPERTIES
Address 77 TARRYTOWN RD. SUITE 100
City WHITE PLAINS State NY Zip Code 10607

WELL LOCATION - If not the same as owner please give address. Owner's Well No. DEVELOPED 4/24/92 COMPLETED
County Bergen Municipality MAYWOOD HORO Lot No. 30 Block No. 124
Address 149-151 Tarrytown Rd., Maywood, NJ

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 4 / 6 / 92
Regulatory Program Requiring Well CERCLA Case I.D. # 10105

CONSULTING FIRM/FIELD SUPERVISOR (if applicable) CH2M HILL Tele. # 201 316-9300

WELL CONSTRUCTION

Total depth drilled 15 ft.

Well finished to 13 ft.

Borehole diameter:

Top 8 in.

Bottom 8 in.

Well was finished: ☐ above grade
☒ flush mounted

If finished above grade, casing
height (stick up) above land
surface ft.

Was steel protective casing installed?

☐ Yes ☒ No

Static water level after drilling 6 ft.

Water level was measured using M Scope

Well was developed for 2 hours at 2+ gpm

Method of development Submersible Pump

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity NA gpm

Pump type: NA

Drilling Method Hollow Stem Auger

Drilling Fluid NA Type of Rig Mobile B-61

Name of Driller Robert Atkinson

Health and Safety Plan submitted? ☐ Yes ☐ No

Level of Protection used on site (circle one) None D C B A

N.J. License No. J 1478

Name of Drilling Company ENVIRONMENTAL DRILLING, INC.

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0'	3'	2"	Stainless Steel
Outer Casing (Not Protective Casing)	NA	NA	NA	
Screen (Note slot size)	3'	13'	2"	Stainless Steel .010
Tail Piece	NA	NA	NA	
Gravel Pack	1'	13'	8"	#1 Gravel
Annular Seal/Grout	0'	1'	8"	Cement
Method of Grouting	Gravity			

GEOLOGIC LOG

(Copies of other geologic logs and/or
geophysical logs should be attached.)

0'-3' fill
3'-14' sand and gravel
14'-15' weathered rock

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable
State rules and regulations.

Driller's Signature [Signature]

Date 6/17/92



PROJECT NUMBER

NJ022948 SR WT

BORING NUMBER

08MW14

SHEET 1 OF 1

WELL COMPLETION LOG

PROJECT Stepan Co. and Sears and Adjacent Properties RI

LOCATION Maywood, NJ

ELEVATION 48.5 (GS); 48.02 (inner casing)

DRILLING CONTRACTOR Environmental Drilling Inc., West Creek, NJ

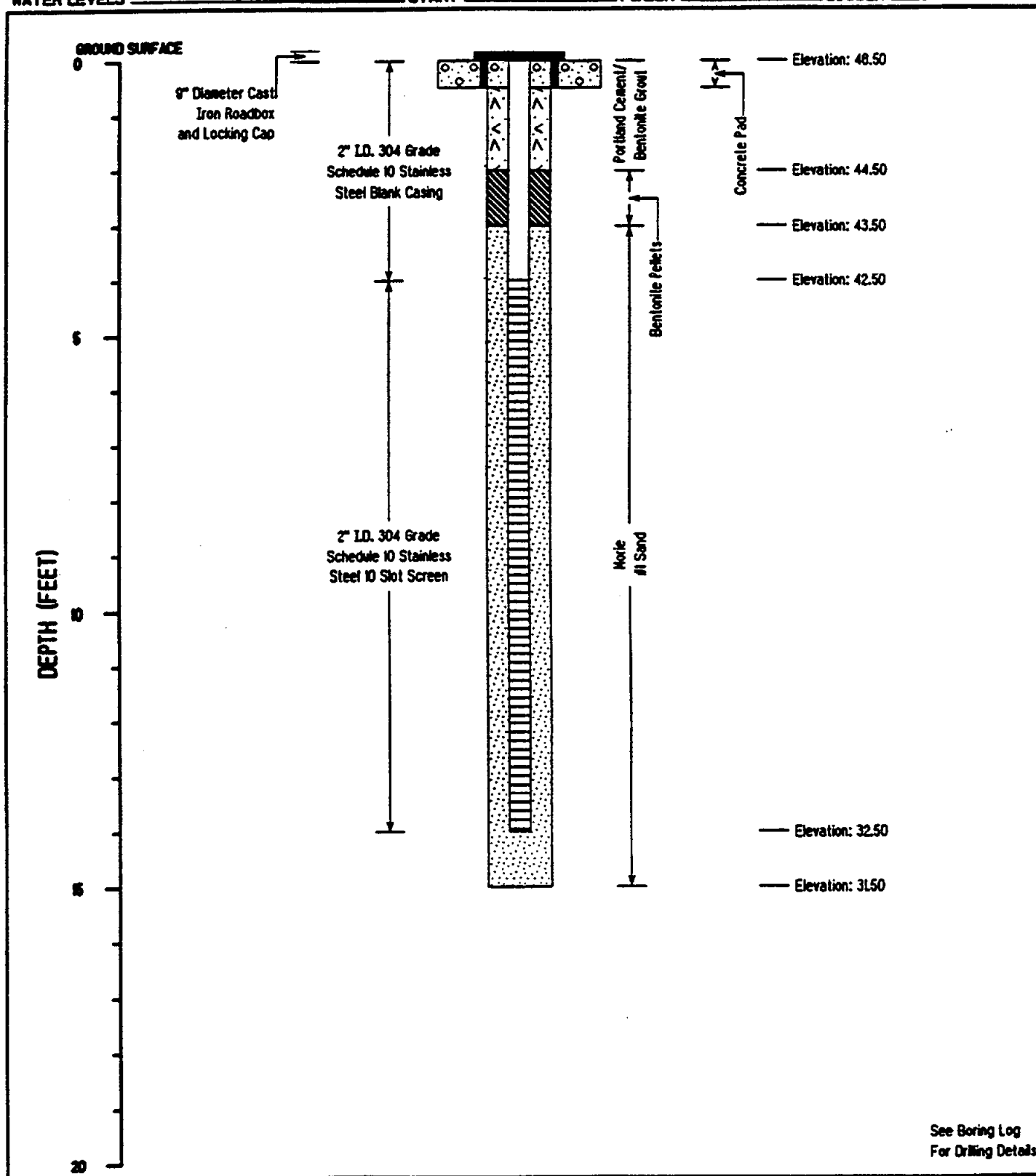
DRILLING METHOD AND EQUIPMENT Mobile B61 HSA 4 1/4" I.D.

WATER LEVELS 2.93 (ft); 43.09 (MSL), 8/22/92

START 4-27-92

FINISH 4-27-92

LOGGER S. Vozza



MONITORING WELL RECORD

Well Permit No. 26-2845
Atlas Sheet Coordinates 26-03-53EOWNER IDENTIFICATION - Owner KIN PROPERTIES
Address 77 TARRYTOWN RD. SUITE 100
City WHITE PLAINS State NY Zip Code 10607WELL LOCATION - If not the same as owner please give address. Owner's Well No. OBMW-14
County Bergen Municipality MAYWOOD BORO Lot No. 30 Block No. 124
Address 149-1512 Tarrytown Rd., Maywood, NJTYPE OF WELL (as per Well Permit Categories) DEVELOPED 4/27/92 (COMPLETED)
Regulatory Program Requiring Well MONITORING Date well completed 4 / 06 / 92
Case I.D. # 10105
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) CH2M HILL Tele. # 1 201 316-9300

WELL CONSTRUCTION

Total depth drilled 15 ft.Well finished to 15 ft.

Borehole diameter:

Top 8 in.Bottom 8 in.Well was finished: ☐ above grade☒ flush mountedIf finished above grade, casing
height (stick up) above land
surface ft.

Was steel protective casing installed?

☐ Yes ☒ NoStatic water level after drilling 6 ft.Water level was measured using M ScopeWell was developed for 2 1/2 hours at 2+ gpmMethod of development submersible PumpWas permanent pumping equipment installed? ☐ Yes ☒ NoPump capacity NA gpmPump type: NADrilling Method Hollow Stem AugerDrilling Fluid NA Type of Rig Mobile B-61Name of Driller Robert AtkinsonHealth and Safety Plan submitted? ☐ Yes ☐ No

Level of Protection used on site (circle one) None D C B A

N.J. License No. J 1478Name of Drilling Company ENVIRONMENTAL DRILLING, INC.

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature [Signature]

Date

6/18/92

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0'	5'	2"	Stainless Steel
Outer Casing (Not Protective Casing)	NA	NA	NA	
Screen (Note slot size)	5'	15'	2"	Stainless Steel .010
Tail Piece	NA	NA	NA	
Gravel Pack	3'	15'	8"	#1 Gravel
Annular Seal/Grout	0'	3'	8"	Cement
Method of Grouting	Gravity			

GEOLOGIC LOG

(Copies of other geologic logs and/or geophysical logs should be attached.)

0'-5' fill
5'-14' sand and gravel



PROJECT NUMBER

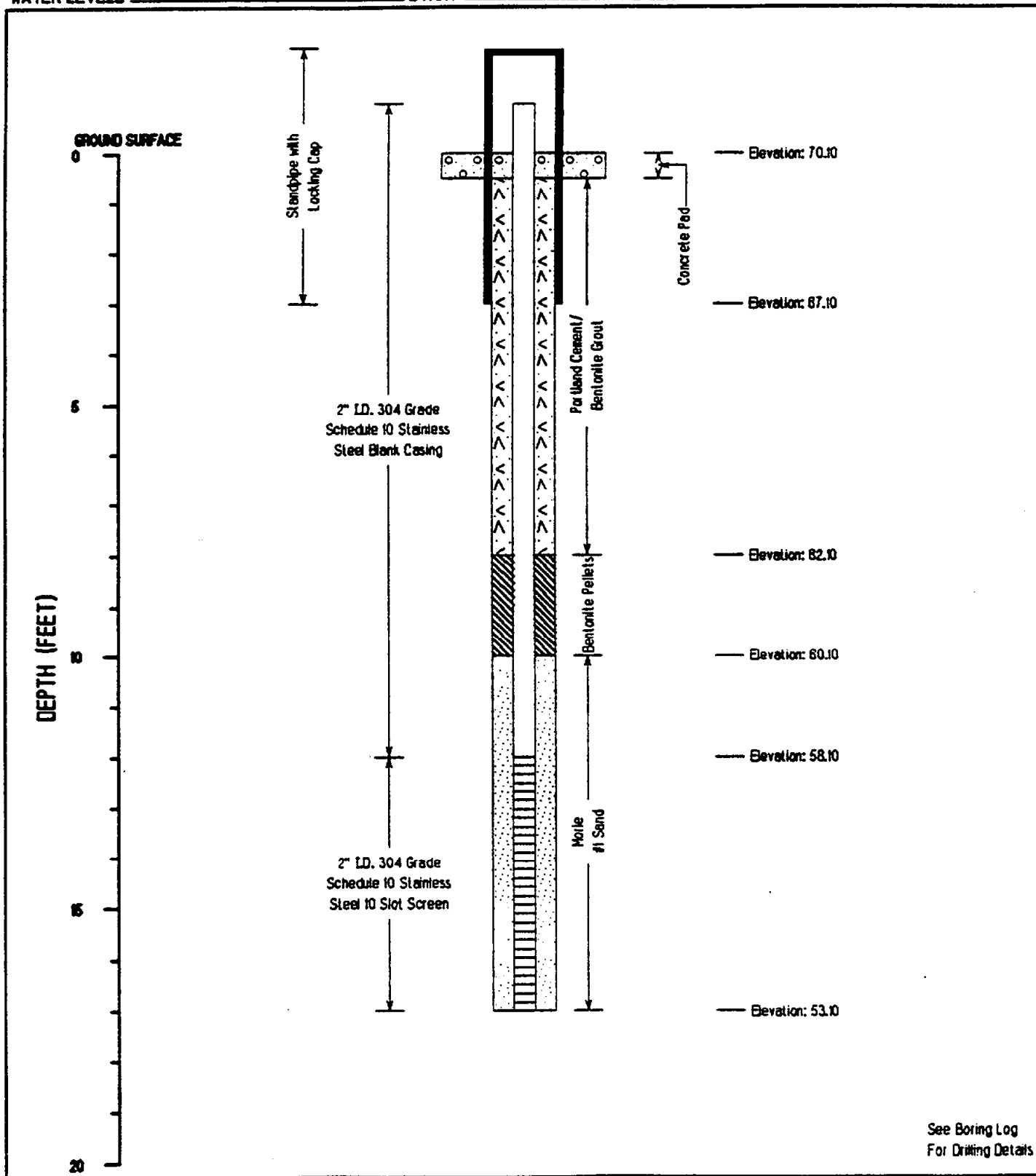
N1022948 ST.WI

BORING NUMBER

08MW15

SHEET 1 OF 1

WELL COMPLETION LOG

PROJECT Stepan Co. and Sears and Adjacent Properties RILOCATION Maywood, NJELEVATION 70.1 (GS); 72.27 (inner casing)DRILLING CONTRACTOR Environmental Drilling Inc., West Creek, NJDRILLING METHOD AND EQUIPMENT Mobile 801 5 7/8 Roller Bit Water RotaryWATER LEVELS 12.80 (ft); 58.87 (MSL), 8/22/82START 4-22-82FINISH 4-22-82LOGGER L. Vogel

MONITORING WELL RECORD

Well Permit No. 26 28893
Atlas Sheet Coordinates 26 03 536OWNER IDENTIFICATION - Owner SPECIAL COMPANY
Address 22 WEST FRONTAGE ROAD
NORTHFIELD State IL Zip Code 60061LOCATION - If not the same as owner please give address. Owner's Well No. OBMW-15
City Bergen Municipality Maywood Boro Lot No. 48 Block No. 124
Address 100 West Hunter Avenue, Maywood, NJTYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 3 / 11 / 92
Regulatory Program Requiring Well CERCLA Case I.D. # 10105
RESULTING FIRM/FIELD SUPERVISOR (if applicable) CH2M HILL Tele. # 201 316-9300

WELL CONSTRUCTION

Total depth drilled 17 ft.Casing finished to 17 ft.

Casing hole diameter:

Top 8 in.Bottom 8 in.Well was finished: ☒ above grade☐ flush mounted

Casing finished above grade, casing

height (stick up) above land

surface 2 ft.

Is steel protective casing installed?

Yes ☐ NoStatic water level after drilling 13 ft.Water level was measured using M ScopeWell was developed for 1 hours at 2+ gpmMethod of development Submersible PumpIs permanent pumping equipment installed? ☐ Yes ☒ NoPump capacity NA gpmPump type: NADrilling Method Hollow Stem AugerDrilling Fluid NA Type of Rig Mobile B-61Name of Driller Robert AtkinsonHealth and Safety Plan submitted? ☐ Yes ☐ No

Level of Protection used on site (circle one) None D C B A

License No. 11478Name of Drilling Company ENVIRONMENTAL DRILLING INC.

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	<u>+2'</u>	<u>12'</u>	<u>2"</u>	<u>stainless steel</u>
Outer Casing (Not Protective Casing)	<u>NA</u>	<u>NA</u>	<u>NA</u>	
Screen (Note slot size)	<u>12'</u>	<u>17'</u>	<u>2"</u>	<u>Stainless Steel</u>
Tail Piece	<u>NA</u>	<u>NA</u>	<u>NA</u>	
Gravel Pack	<u>10'</u>	<u>17'</u>	<u>8"</u>	<u># 1 Gravel</u>
Annular Seal/Grout	<u>0'</u>	<u>10'</u>	<u>8"</u>	<u>Cement</u>
Method of Grouting	<u>Tremie Pressure</u>			

GEOLOGIC LOG

(Copies of other geologic logs and/or geophysical logs should be attached.)

0'-8' fill
8'-17' rock

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable state rules and regulations.

Driller's Signature [Signature]Date 6/18/92

PROJECT NUMBER

NJ022948 ST. WI.

BORING NUMBER

08MW17

SHEET 1 OF 1

WELL COMPLETION LOG

PROJECT Stepan Co. and Sears and Adjacent Properties RI

LOCATION Maywood, NJ

ELEVATION 80.5 (GS); 82.70 (inner casing)

DRILLING CONTRACTOR Environmental Drilling Inc., West Creek, NJ

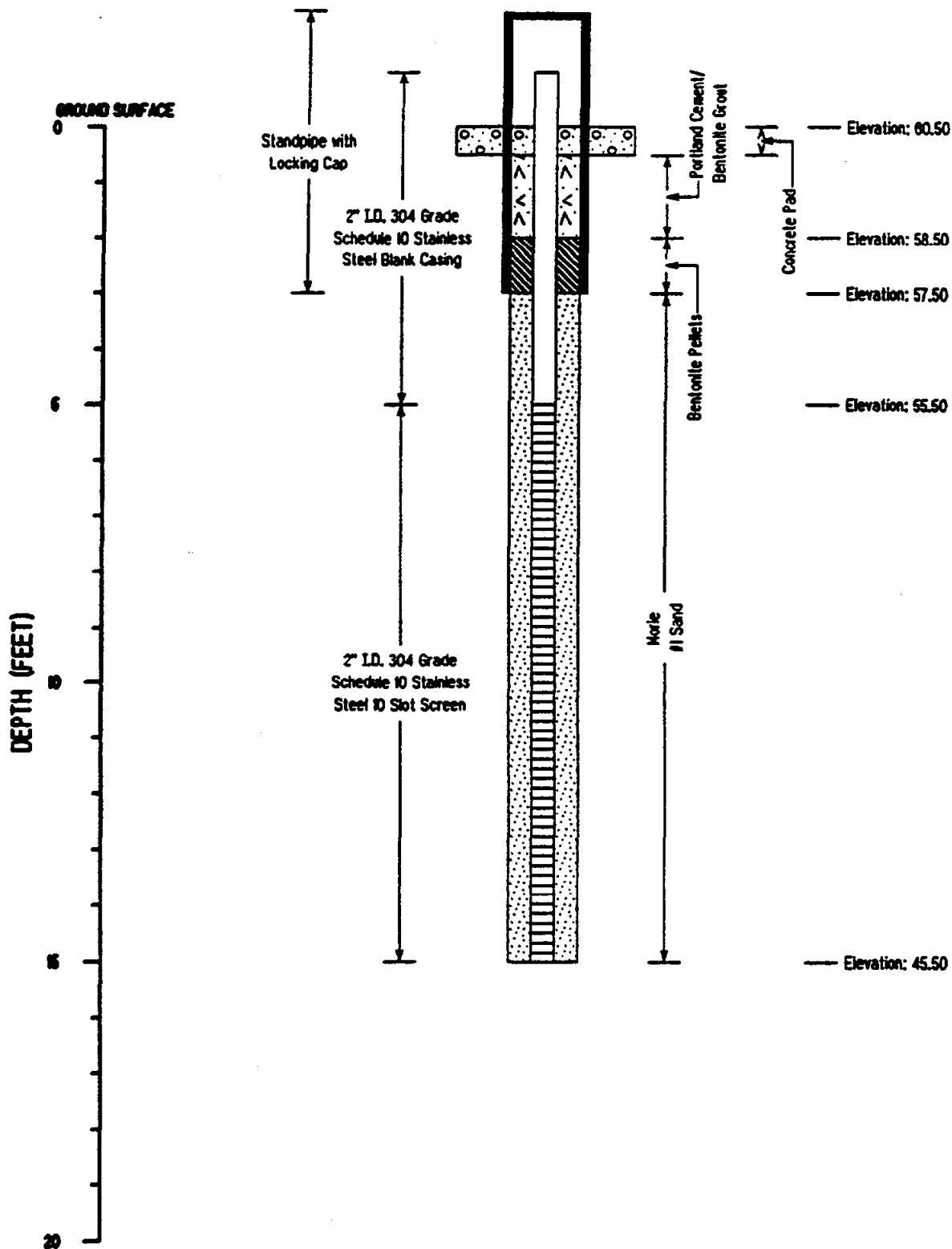
DRILLING METHOD AND EQUIPMENT Mobile B81 HSA 4 1/4" I.D.

WATER LEVELS 7.50 (ft); 55.20 (MSL), 6/22/92

START 4-23-92

FINISH 4-23-92

LOGGER L. Vogel



See Boring Log
For Drilling Details

MONITORING WELL RECORD

Well Permit No. 26 - 28894
Atlas Sheet Coordinates 26 : 03 : 536OWNER IDENTIFICATION - Owner STEPHAN COMPANY
Address 22 WEST FRONTAGE ROAD
City NORTHFIELD State IL Zip Code 10607WELL LOCATION - If not the same as owner please give address. Owner's Well No. OBMW-17
County Bergen Municipality MAYWOOD BORO Lot No. 40 Block No. 124
Address 100 West Hunter Avenue, Maywood, NJTYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed DEVELOPED 5/19/92 (COMPLETED)
Regulatory Program Requiring Well BCRU Case I.D. # 10105
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) CH2M HILL Tele. # 201 316-9300

WELL CONSTRUCTION

Total depth drilled 15 ft.Well finished to 15 ft.

Borehole diameter:

Top 8 in.Bottom 8 in.Well was finished: ☒ above grade
☐ flush mountedIf finished above grade, casing
height (stick up) above land
surface 2 ft.

Was steel protective casing installed?

☒ Yes ☐ NoStatic water level after drilling 7 ft.Water level was measured using M ScopeWell was developed for 1 hours at 2+ gpmMethod of development Submersible PumpWas permanent pumping equipment installed? ☐ Yes ☒ NoPump capacity NA gpmPump type: NADrilling Method Hollow Stem AugerDrilling Fluid NA Type of Rig Mobile B-61Name of Driller Robert AtkinsonHealth and Safety Plan submitted? ☐ Yes ☐ No

Level of Protection used on site (circle one) None D C B A

N.J. License No. J 1478Name of Drilling Company ENVIRONMENTAL DRILLING INC.

	Depth to Top (ft.) (From land surface)	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	+2'	5'	2"	Stainless Steel
Outer Casing (Not Protective Casing)	NA	NA	NA	
Screen (Note slot size)	5'	15'	2"	Stainless Steel
Tail Piece	NA	NA	NA	
Gravel Pack	3'	15'	8"	#1 Gravel
Annular Seal/Grout	0'	3'	8"	Cement
Method of Grouting	Gravity			

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0'-9' sand
9'-15' weathered rock

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature [Signature]Date 6/16/92



PROJECT NUMBER

NJ022948 ST WT

BORING NUMBER

BRMW1

SHEET 1 OF 1

WELL COMPLETION LOG

PROJECT Stepan Co. and Sears and Adjacent Properties RI

LOCATION Maywood, NJ

ELEVATION 49.5 (GS); 49.08 (inner casing)

DRILLING CONTRACTOR

Environmental Drilling Inc., West Creek, NJ

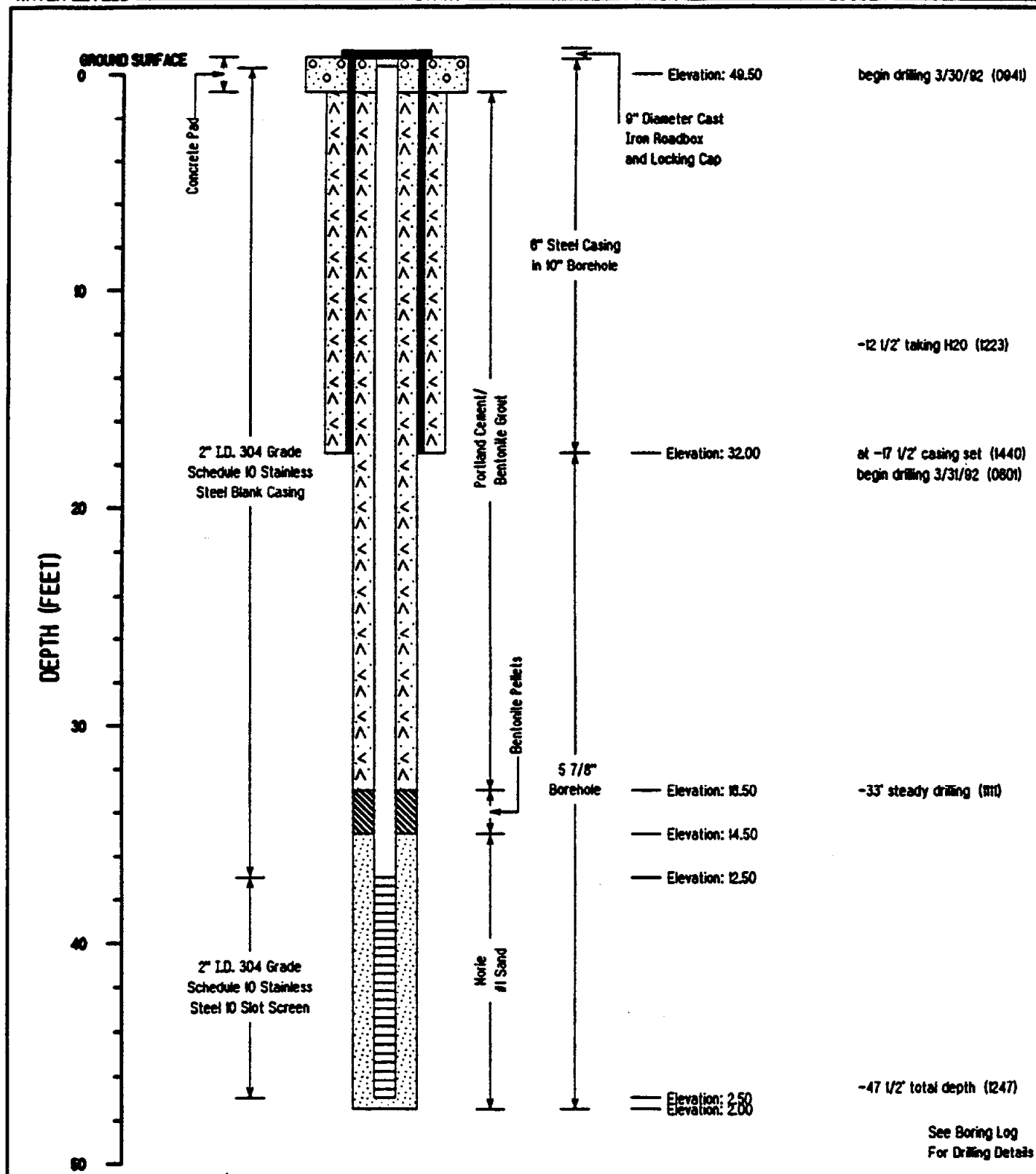
DRILLING METHOD AND EQUIPMENT Mobile B80 Water Rotary

WATER LEVELS 5.80 (ft); 43.48 (MSL), 8/22/92

START 3-30-92

FINISH 3-31-92

LOGGER D. Snyder



MONITORING WELL RECORD

Well Permit No. 28 - 28450
Atlas Sheet Coordinates 26 : 03 : 536OWNER IDENTIFICATION - Owner KEN PROPERTIES
Address 77 TARTAGLIA RD. SUITE 100
City WHITE PLAINS State NY Zip Code: _____WELL LOCATION - If not the same as owner please give address. Owner's Well No. BRMW-1
County Bergen Municipality _____ Lot No. _____ Block No. 124
Address 149-151 Maywood Ave., Maywood, NJ MAYWOOD HORO 12,30TYPE OF WELL (as per Well Permit Categories) _____ Date well completed 6 / 21 / 92
Regulatory Program Requiring Well MONITORING Case I.D. # 10105
CH2M HILL Consulting Firm/Field Supervisor (if applicable) CH2M HILL Tele. 908 316-9300

WELL CONSTRUCTION

Total depth drilled 47/5 ft.Well finished to 37 ft.

Borehole diameter:

Top 10 in.Bottom 6 in.Well was finished: ☐ above grade
☒ flush mountedIf finished above grade, casing
height (stick up) above land
surface _____ ft.

Was steel protective casing installed?

☐ Yes ☒ NoStatic water level after drilling 4 ft.Water level was measured using M ScopeWell was developed for 1 1/2 hours at 2+ gpmMethod of development Submersible PumpWas permanent pumping equipment installed? ☐ Yes ☒ NoPump capacity NA gpmPump type: NADrilling Method Mud RotaryDrilling Fluid NA Type of Rig Mobile b-80Name of Driller Thomas Lynch & Robert AtkinsonHealth and Safety Plan submitted? ☐ Yes ☐ No

Level of Protection used on site (circle one) None D C B A

N.J. License No. J 1499 & J 1478Name of Drilling Company ENVIRONMENTAL DRILLING, INC.

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0'	27'	2"	Stainless steel
Outer Casing (Not Protective Casing)	0'	17 1/2'	6"	steel casing
Screen (Note slot size)	27'	37'	2"	Slot .010 S.S.
Tail Piece	NA	NA	NA	
Gravel Pack	25'	37'	6"	# 1 Gravel
Annular Seal/Grout	0'	25'	10/6"	cement
Method of Grouting	Tremie Pressure			

GEOLOGIC LOG (Copies of other geologic logs and/or
geophysical logs should be attached.)0'-6' fill
6'-12' weathered sandstone
12'-17 1/2' sandstone & Shale
17 1/2'-47.5 sandstone & ShaleI certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable
State rules and regulations.Driller's Signature [Signature]Date 7/23/92



PROJECT NUMBER

NJ022948 ST.W1

BORING NUMBER

RRMW2

SHEET 1 OF 1

WELL COMPLETION LOG

PROJECT Stepan Co. and Sears and Adjacent Properties RI

LOCATION Maywood, NJ

ELEVATION 54.9 (GS); 54.81 (inner casing)

DRILLING CONTRACTOR

Environmental Drilling Inc., West Creek, NJ

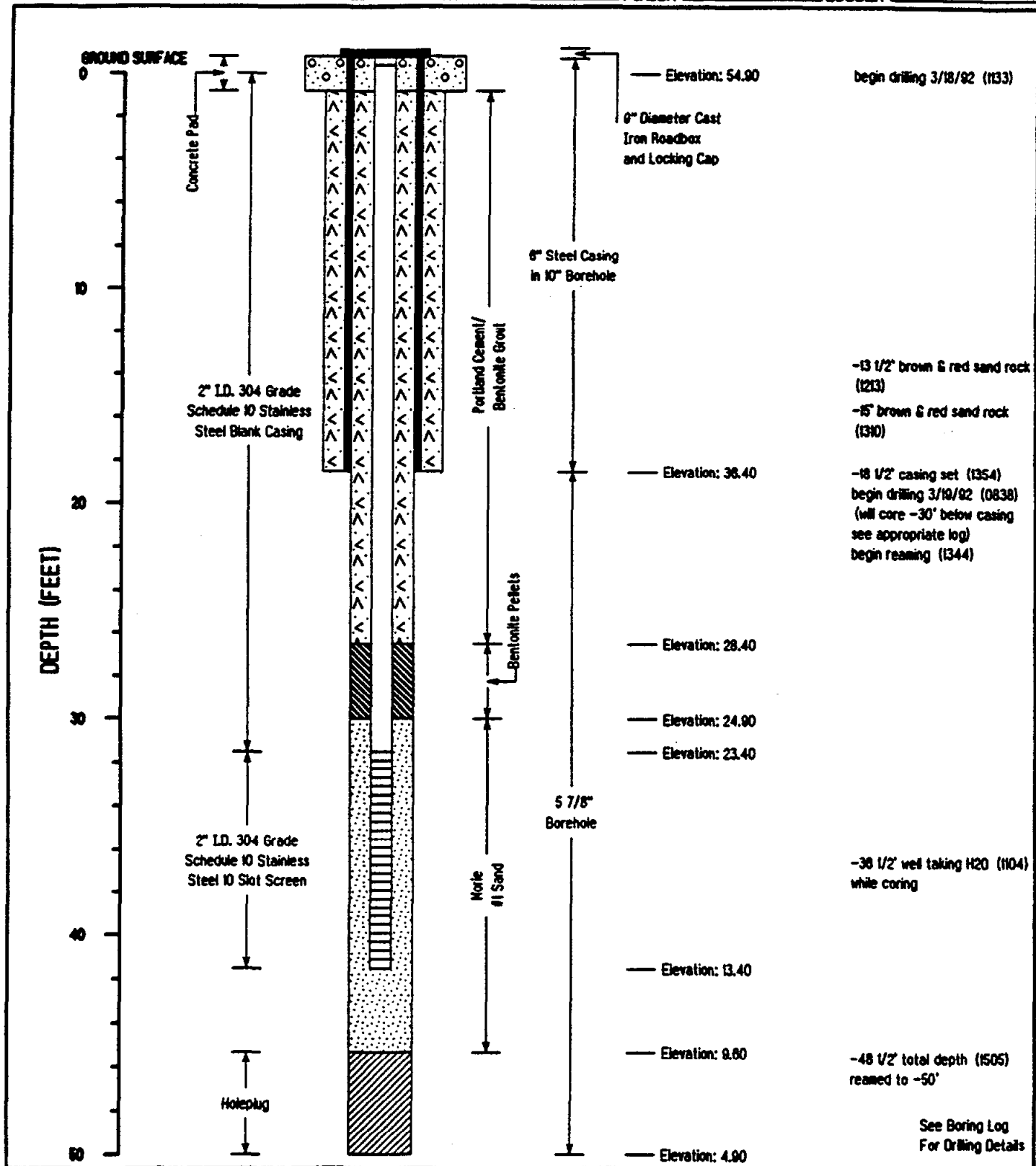
DRILLING METHOD AND EQUIPMENT Mobile 880 Water Rotary

WATER LEVELS 8.52 (ft); 48.09 (MSL), 6/22/92

START 3-18-92

FINISH 3-19-92

LOGGER D. Snyder



MONITORING WELL RECORD

Well Permit No. 26 - 28AF7
Atlas Sheet Coordinates 76 : 113 : 536OWNER IDENTIFICATION - Owner STEPAN COMPANY
Address 22 WEST FRONTAGE ROAD
City NORTHFIELD State IL Zip Code 60093WELL LOCATION - If not the same as owner please give address. Owner's Well No. BRMW-2
County Bergen Municipality Maywood Boro Lot No. 32 Block No. 124
Address 100 West Hunter Avenue, Maywood, NJTYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 6 / 08 / 92
Regulatory Program Requiring Well CH2M HILL Case I.D. # 10105
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) CH2M HILL Tele. # 908 316-9300

WELL CONSTRUCTION

Total depth drilled 48.5 ft.Well finished to 41.5 ft.

Borehole diameter:

Top 10 in.Bottom 6 in.Well was finished: ☐ above grade
☒ flush mountedIf finished above grade, casing
height (stick up) above land
surface ft.

Was steel protective casing installed?

☐ Yes ☒ NoStatic water level after drilling 8 ft.Water level was measured using M ScopeWell was developed for 1 1/2 hours at 2+ gpmMethod of development submersible PumpWas permanent pumping equipment installed? ☐ Yes ☒ NoPump capacity NA gpmPump type: NADrilling Method Mud RotaryDrilling Fluid NA Type of Rig Mobile B-61Name of Driller Robert AtkinsonHealth and Safety Plan submitted? ☐ Yes ☐ No

Level of Protection used on site (circle one) None D C B A

N.J. License No. J1478Name of Drilling Company ENVIRONMENTAL INSTALLING, INC.

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0'	31.5	2"	Steel casing
Outer Casing (Not Protective Casing)	0'	20'	6"	Steel casing
Screen (Note slot size)	31.5	41.5	2"	Slot 010
Tail Piece	NA	NA	NA	
Gravel Pack	29.5	41.5	6"	#1 Gravel
Annular Seal/Grout	0'	29.5	19/6"	cement
Method of Grouting	Tremie Pressure			

GEOLOGIC LOG

(Copies of other geologic logs and/or
geophysical logs should be attached.)0'-5' fill
5'-8' clay
8'-13' silty sand and clays
13'-18' sandstone
18'-48.5 sandstone and shaleI certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable
State rules and regulations.Driller's Signature Robert AtkinsonDate 7/23/92



PROJECT NUMBER

NJ022948 GF WT

BORING NUMBER

BRMW3

SHEET 1 OF 1

WELL COMPLETION LOG

PROJECT Stepan Co. and Sears and Adjacent Properties RI

LOCATION Maywood, NJ

ELEVATION 46.9 (GS); 46.87 (inner casing)

DRILLING CONTRACTOR

Environmental Drilling Inc., West Creek, NJ

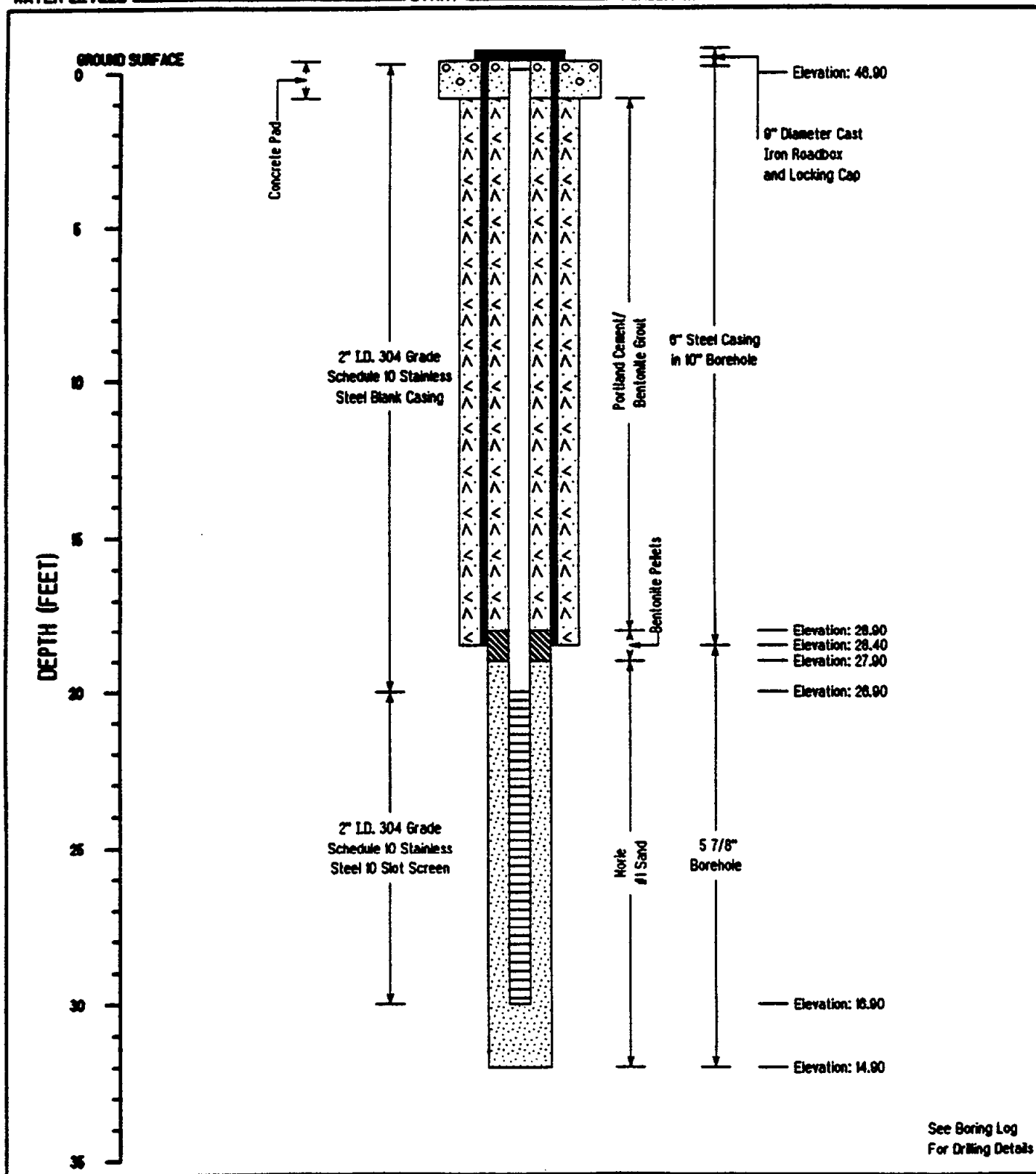
DRILLING METHOD AND EQUIPMENT Mobile B80 Water Rotary; Air Rotary

WATER LEVELS 3.85 (ft); 42.82 (MSL), 6/22/92

START 3-26-92

FINISH 3-27-92

LOGGER D. Snyder





PROJECT NUMBER

NJ022948 ST WT

BORING NUMBER

BPMW4

SHEET 1 OF 1

WELL COMPLETION LOG

PROJECT tepan Co. and Sears and Adjacent Properties RI

LOCATION Maywood, NJ

ELEVATION 46.6 (GS); 46.33 (inner casing)

DRILLING CONTRACTOR Environmental Drilling Inc., West Creek, NJ

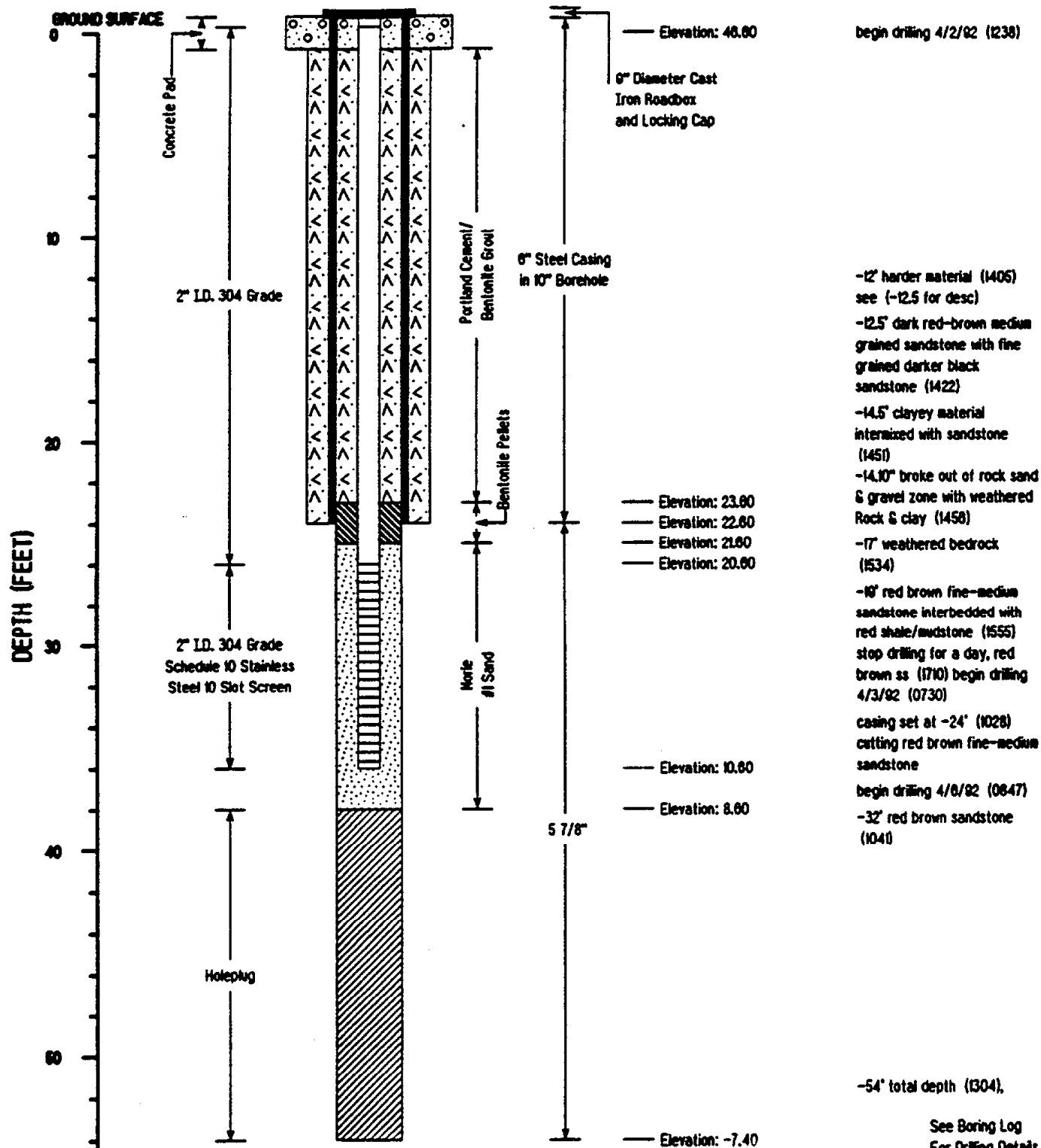
DRILLING METHOD AND EQUIPMENT Mobile B80 Water Rotary

WATER LEVELS 3.44 (ft); 42.89 (MSL), 8/22/92

START 3-2-92

FINISH 3-3-92

LOGGER S. Scanlon



MONITORING WELL RECORD

Well Permit No. 98 - 28450
Atlas Sheet Coordinates 26 : 14 : 53E

OWNER IDENTIFICATION - Owner KIN PROPERTIES
Address 77 TARDY TOWN RD. SUITE 100
City WHITE PLAINS State NY Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No. BRMW-4
County Bergen Municipality MAYWOOD HOB Lot No. 12,30 Block No. 124
Address 149-151 Maywood Avenue, Maywood, NJ

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 6 03 92
Regulatory Program Requiring Well CERCLA Case I.D. # 10105
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) CH2M HILL Tele. 908 316-9300

WELL CONSTRUCTION

Total depth drilled 56 1/2 ft.

Well finished to 35 ft.

Borehole diameter:

Top 10 in.

Bottom 6 in.

Well was finished: ☐ above grade
☒ flush mounted

If finished above grade, casing
height (stick up) above land
surface ft.

Was steel protective casing installed?

☐ Yes ☒ No

Static water level after drilling 2 1/2 ft.

Water level was measured using scope

Well was developed for 2 hours at 2+ gpm

Method of development submersible Pump

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity NA gpm

Pump type: NA

Drilling Method Mud Rotary

Drilling Fluid NA Type of Rig Mobile B-80

Name of Driller Thomas Lynch

Health and Safety Plan submitted? ☐ Yes ☐ No

Level of Protection used on site (circle one) None D C B A

N.J. License No. 1499

Name of Drilling Company ENVIRONMENTAL DRILLING INC.

	Depth to Top (ft.)	Depth to Bottom (ft.) [From land surface]	Diameter (inches)	Type and Material
Inner Casing	0'	26'	2"	stainless steel
Outer Casing (Not Protective Casing)	0'	26'	6"	steel
Screen (Note slot size)	26'	36'	2"	stainless steel w/ 010
Tail Piece	NA	NA	NA	
Gravel Pack	24'	36'	6"	# 1 Gravel
Annular Seal/Grout	0'	34'	10/6"	cement
Method of Grouting	tremie pressure			

GEOLOGIC LOG

(Copies of other geologic logs and/or
geophysical logs should be attached.)

0'-11' fill
11'-19.5' sand, cobbles & boulders
19.5'-24 1/2' sandstone & shale
24 1/2'-54 1/2' sandstone & shale
54 1/2'-56 1/2' sandstone & shale

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature

Date 7/24/92



PROJECT NUMBER

NJ022948 SC.WT

BORING NUMBER

BRMW5

SHEET 1 OF 1

WELL COMPLETION LOG

PROJECT Stepan Co. and Sears and Adjacent Properties RI

LOCATION Maywood, NJ

ELEVATION 46.4 (GS); 45.97 (inner casing)

DRILLING CONTRACTOR Environmental Drilling Inc., West Creek, NJ

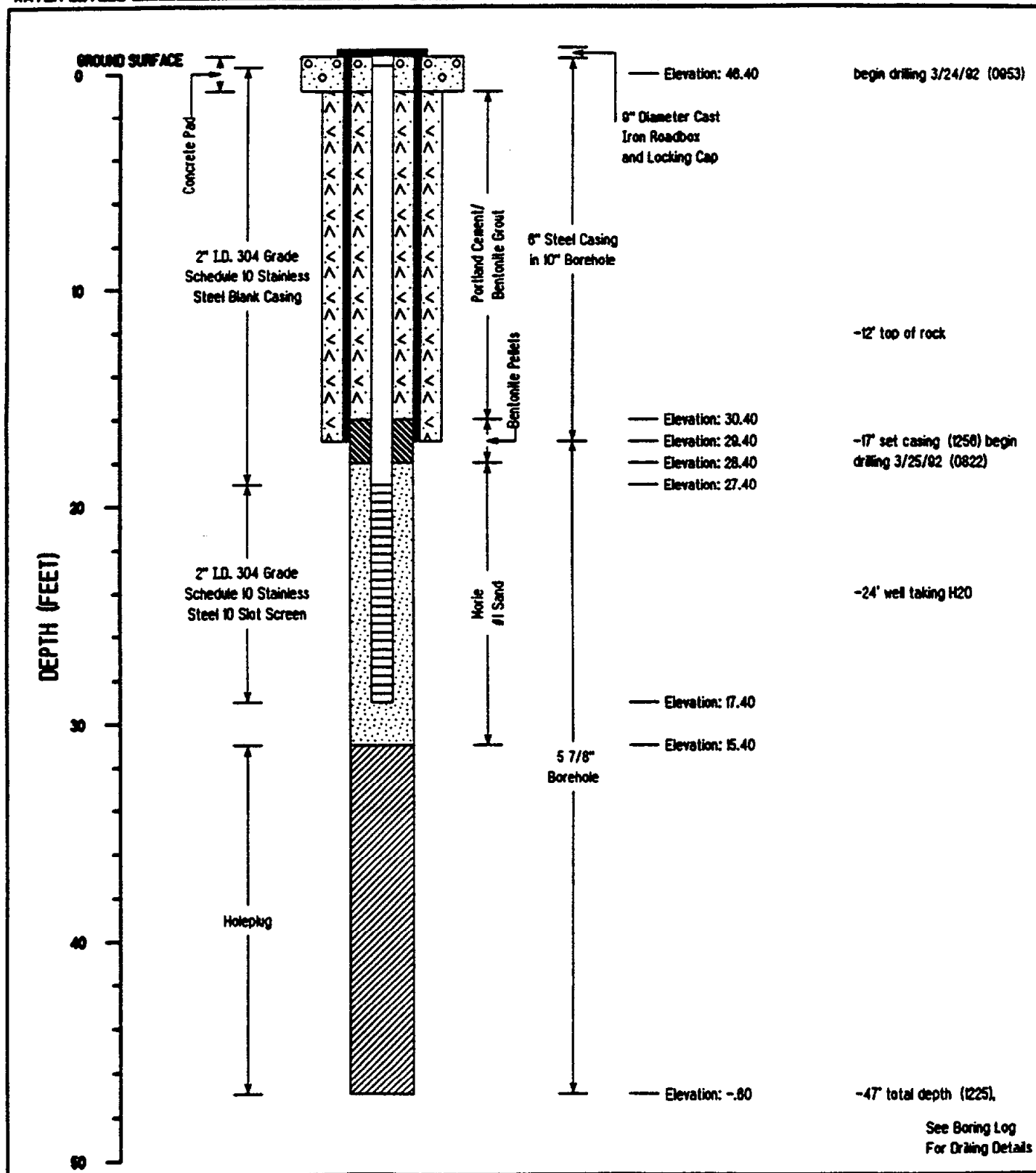
DRILLING METHOD AND EQUIPMENT Mobile B80 Water Rotary

WATER LEVELS 3.92 (ft); 42.05 (MSL), 8/22/92

START 3-24-92

FINISH 3-25-92

LOGGER D. Snyder



MONITORING WELL RECORD

Well Permit No. 26 - 28440
Atlas Sheet Coordinates 28 : 03 : 536OWNER IDENTIFICATION - Owner SON OIL CORPORATION
Address 1801 MARKET STREET
City PHILADELPHIA State PA Zip Code 19103WELL LOCATION - If not the same as owner please give address. Owner's Well No. BRMW-5
County Bergen Municipality MAYWOOD BORO Lot No. 2 Block No. 124
Address 167 N/S Rt. 17, Maywood, NJTYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 6 / 15 / 92
Regulatory Program Requiring Well CERCLA Case I.D. # 10106
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) CH2M HILL Tele. # 1 908 316-9300

WELL CONSTRUCTION

Total depth drilled 47 ft.Well finished to 40 ft.

Borehole diameter:

Top 10 in.Bottom 6 in.Well was finished: ☐ above grade
☒ flush mountedIf finished above grade, casing
height (stick up) above land
surface ft.

Was steel protective casing installed?

☐ Yes ☒ NoStatic water level after drilling 5 ft.Water level was measured using M ScopeWell was developed for 1 hours at 2+ gpmMethod of development Submersible PumpWas permanent pumping equipment installed? ☐ Yes ☒ NoPump capacity NA gpmPump type: NADrilling Method Mud RotaryDrilling Fluid NA Type of Rig Mobile B-80 & B-6Name of Driller Thomas Lynch & Robert AtkinsonHealth and Safety Plan submitted? ☐ Yes ☐ No

Level of Protection used on site (circle one) None D C B A

N.J. License No. J1499 and J1478Name of Drilling Company ENVIRONMENTAL DRILLING, INC.

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0'	30'	2"	Stainless steel
Outer Casing (Not Protective Casing)	0'	17'	6"	Steel Casing
Screen (Note slot size)	30'	40'	2"	Stainless steel Slot .010
Tail Piece	NA	NA	NA	
Gravel Pack	28'	40'	6"	#1 Gravel
Annular Seal/Grout	0'	28'	10/6"	Cement
Method of Grouting	Tremie Pressure			

GEOLOGIC LOG

(Copies of other geologic logs and/or
geophysical logs should be attached.)0'-8' fill
8'-10' silt and clay
10'-17' sandstone & Shale
17'-47' sandstone & ShaleI certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable
State rules and regulations.Driller's Signature [Signature]Date 7/23/92



PROJECT NUMBER

NJ022948 SR WT

BORING NUMBER

BRMWR

SHEET 1 OF 1

WELL COMPLETION LOG

PROJECT Stepan Co. and Sears and Adjacent Properties RI

LOCATION Maywood, NJ

ELEVATION 49.3 (GS); 49.06 (inner casing)

DRILLING CONTRACTOR Environmental Drilling Inc., West Creek, NJ

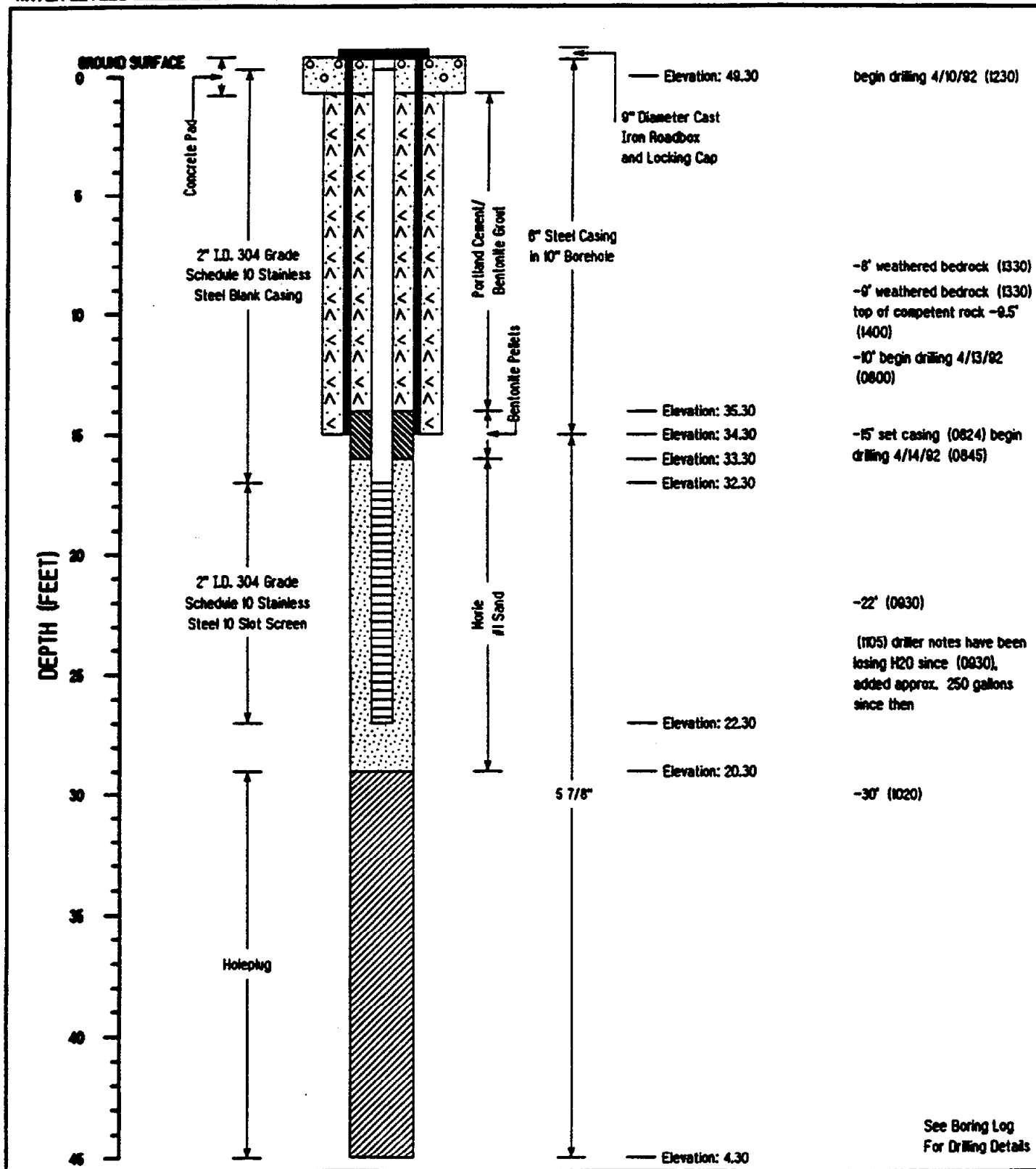
DRILLING METHOD AND EQUIPMENT Mobile B80 Water Rotary

WATER LEVELS 3.12 (ft); 45.94 (MSL), 8/22/92

START 4-10-92

FINISH 4-14-92

LOGGER S. Repko



MONITORING WELL RECORD

Well Permit No. 26 - 28460
Atlas Sheet Coordinates 26 : 03 : 53C

OWNER IDENTIFICATION - Owner KIN PROPERTIES
Address 77 TARRYTOWN RD. SUITE 100
City WHITE PLAINS State NY Zip Code 10607

WELL LOCATION - If not the same as owner please give address. Owner's Well No. BRW-6

County Bergen Municipality MAYWOOD HURU Lot No. 12,30 Block No. 124

Address 149-151 Maywood Ave., Maywood, NJ

TYPE OF WELL (as per Well Permit Categories) _____ Date well completed 6 / 11 / 92
Regulatory Program Requiring Well MONITORING Case I.D. # 10105
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) CH2M HILL Tele. # 1 908 316-9300

WELL CONSTRUCTION

45 Total depth drilled **45** ft.

Well finished to 27 ft.

Borehole diameter:
Top 10 in.

Bottom 6 in.

Well was finished: ☐ above grade
☒ flush mounted

If finished above grade, casing
height (stick up) above land
surface ft.

Was steel protective casing installed?
☐ Yes ☒ No

Static water level after drilling 24 ft.

Water level was measured using **M Scope**

Well was developed for 1 1/2 hours at 2+ gpm

Method of development Submersible Pump

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity NA gpm

Pump type: NA

Drilling Method	Mud Rotary
1. Drilling fluid is pumped down hole from surface.	
2. Mud is circulated continuously through drill pipe.	
3. Mud returns to surface through annular space between drill pipe and well wall.	
4. Mud carries cuttings back to surface.	
5. Mud helps stabilize well walls.	
6. Mud lubricates drill bit.	
7. Mud cools drill bit.	
8. Mud seals off formations.	
9. Mud prevents blowouts.	
10. Mud allows for casing placement.	
11. Mud provides pressure support.	
12. Mud enables deep drilling.	
13. Mud improves recovery.	
14. Mud reduces wear.	
15. Mud enhances safety.	
16. Mud optimizes cost.	
17. Mud ensures quality.	
18. Mud meets regulations.	
19. Mud supports innovation.	
20. Mud drives progress.	

Drilling Fluid	NA	Type of Rig	Mobil 6-80
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Name of Driller **Thomas Lynch**

Health and Safety Plan submitted? ☐ Yes ☐ No

Level of Protection used on site (circle one) None D C B A

N.J. License No. J1499

Name of Drilling Company ENVIRONMENTAL DRILLING, INC.

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0'	17'	2"	stainless steel
Outer Casing (Not Protective Casing)	0'	15'	6"	Steel casing
Screen (Note slot size)	17'	27'	2"	Slot .010 S.S.
Tail Piece	NA	NA	NA	
Gravel Pack	15'	27'	6"	# 1 Gravel
Annular Seal/Grout	0'	15'	10/6"	Cement
Method of Grouting	Tremie Pressure			

GEOLOGIC LOG

(Copies of other geologic logs and/or geophysical logs should be attached.)

0'-0'-5' fill
5'-15' red sandstone
15'-45' red sandstone/some red shale

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature _____ Date 7/23/92

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.



PROJECT NUMBER

NJ022948 SR WT

BORING NUMBER

BRMW7

SHEET 1 OF 1

WELL COMPLETION LOG

PROJECT Stepan Co. and Sears and Adjacent Properties RI

LOCATION Maywood, NJ

ELEVATION 45.8 (GS); 45.11 (inner casing)

DRILLING CONTRACTOR

Environmental Drilling Inc., West Creek, NJ

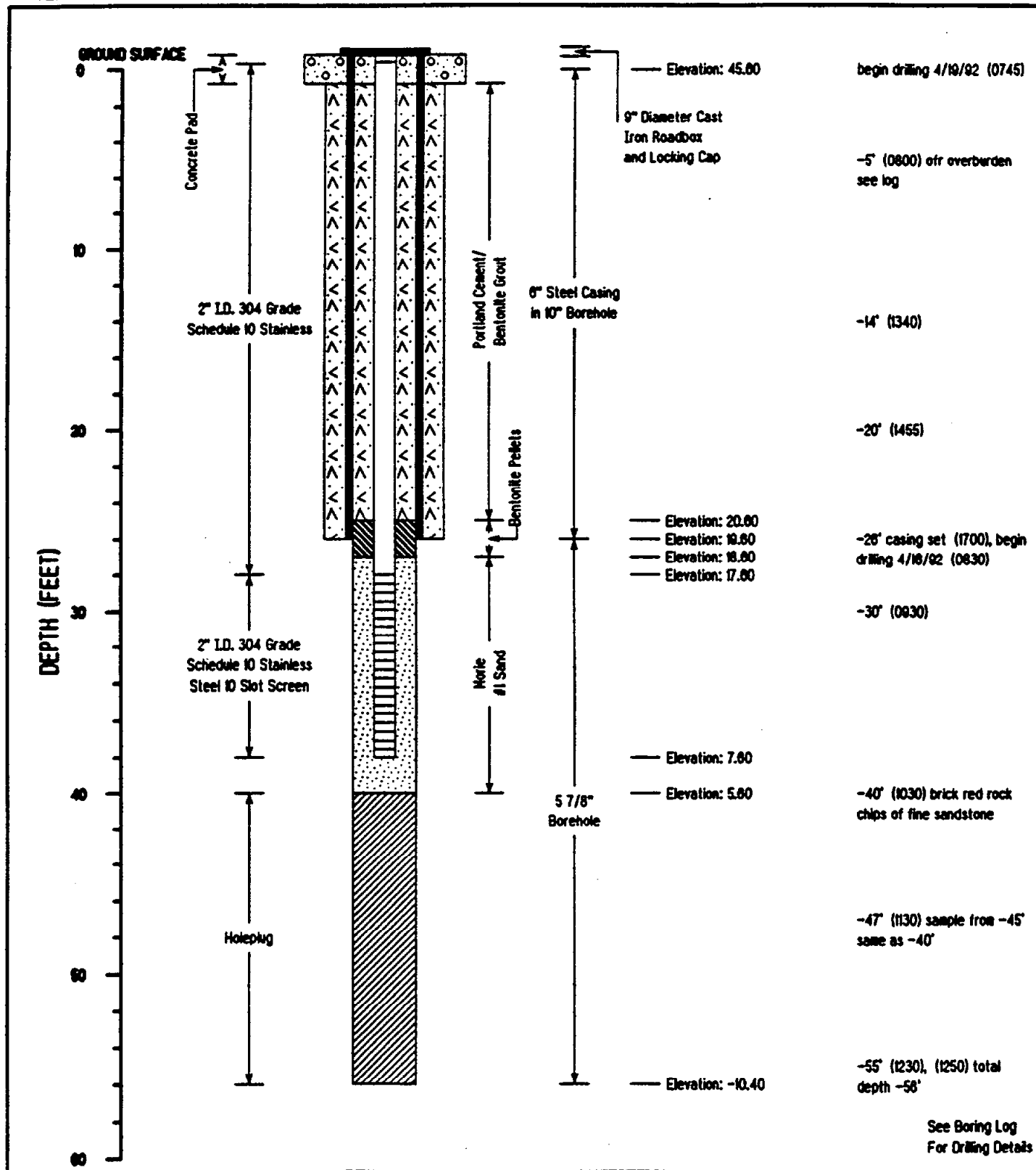
DRILLING METHOD AND EQUIPMENT Mobile B80 Water Rotary

WATER LEVELS 2.18 (ft); 42.93 (MSL), 8/22/92

START 4-15-92

FINISH 4-16-92

LOGGER S. Repko



MONITORING WELL RECORD

Well Permit No. 28 - 28461Atlas Sheet Coordinates 26 07 536

OWNER IDENTIFICATION - Owner KIN PROPERTIES
Address 77 TARRYTOWN RD. SUITE 100
City WHITE PLAINS State NY Zip Code: 10607

WELL LOCATION - If not the same as owner please give address. Owner's Well No. BRMW-7
County Bergen Municipality MAYWOOD HORO Lot No. 12,30 Block No. 124
Address 149-151 Maywood Ave., Maywood, NJ

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 6 10 92
Regulatory Program Requiring Well CH2M HILL Case I.D. # 10105
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) CH2M HILL Tele. #

WELL CONSTRUCTION

Total depth drilled 56 ft.Well finished to 38 ft.

Borehole diameter:

Top 10 in.Bottom 6 in.

Well was finished: ☐ above grade
☒ flush mounted

If finished above grade, casing
height (stick up) above land
surface ft.

Was steel protective casing installed?

☐ Yes ☒ NoStatic water level after drilling 1 ft.Water level was measured using M ScopeWell was developed for 1 hours at 2+ gpmMethod of development Submersible PumpWas permanent pumping equipment installed? ☐ Yes ☒ NoPump capacity NA gpmPump type: NADrilling Method Mud RotaryDrilling Fluid NA Type of Rig Mobile B-80Name of Driller Thomas LynchHealth and Safety Plan submitted? ☐ Yes ☐ No

Level of Protection used on site (circle one) None D C B A

N.J. License No. J1499Name of Drilling Company ENVIRONMENTAL DRILLING, INC.

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0'	28'	2"	stainless steel
Outer Casing (Not Protective Casing)	0'	28'	6"	Steel casing
Screen (Note slot size)	28'	38'	2"	Slot .010 S.S.
Tail Piece	NA	NA	NA	
Gravel Pack	26'	38'	6"	# 1 Gravel
Annular Seal/Grout	0'	26'	10/6"	cement
Method of Grouting	Tremie Pressure			

GEOLOGIC LOG

(Copies of other geologic logs and/or geophysical logs should be attached.)

0'-6' fill
6'-17' sandstone
17'-26' sandstone some shale
26'-56' sandstone

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Date 7/23/92



PROJECT NUMBER

NJ022948 SR.WT

BORING NUMBER

BRMWR

SHEET 1 OF 1

WELL COMPLETION LOG

PROJECT Stepan Co. and Sears and Adjacent Properties RI

LOCATION Maywood, NJ

ELEVATION 45.7 (GS); 45.17 (inner casing)

DRILLING CONTRACTOR Environmental Drilling Inc., West Creek, NJ

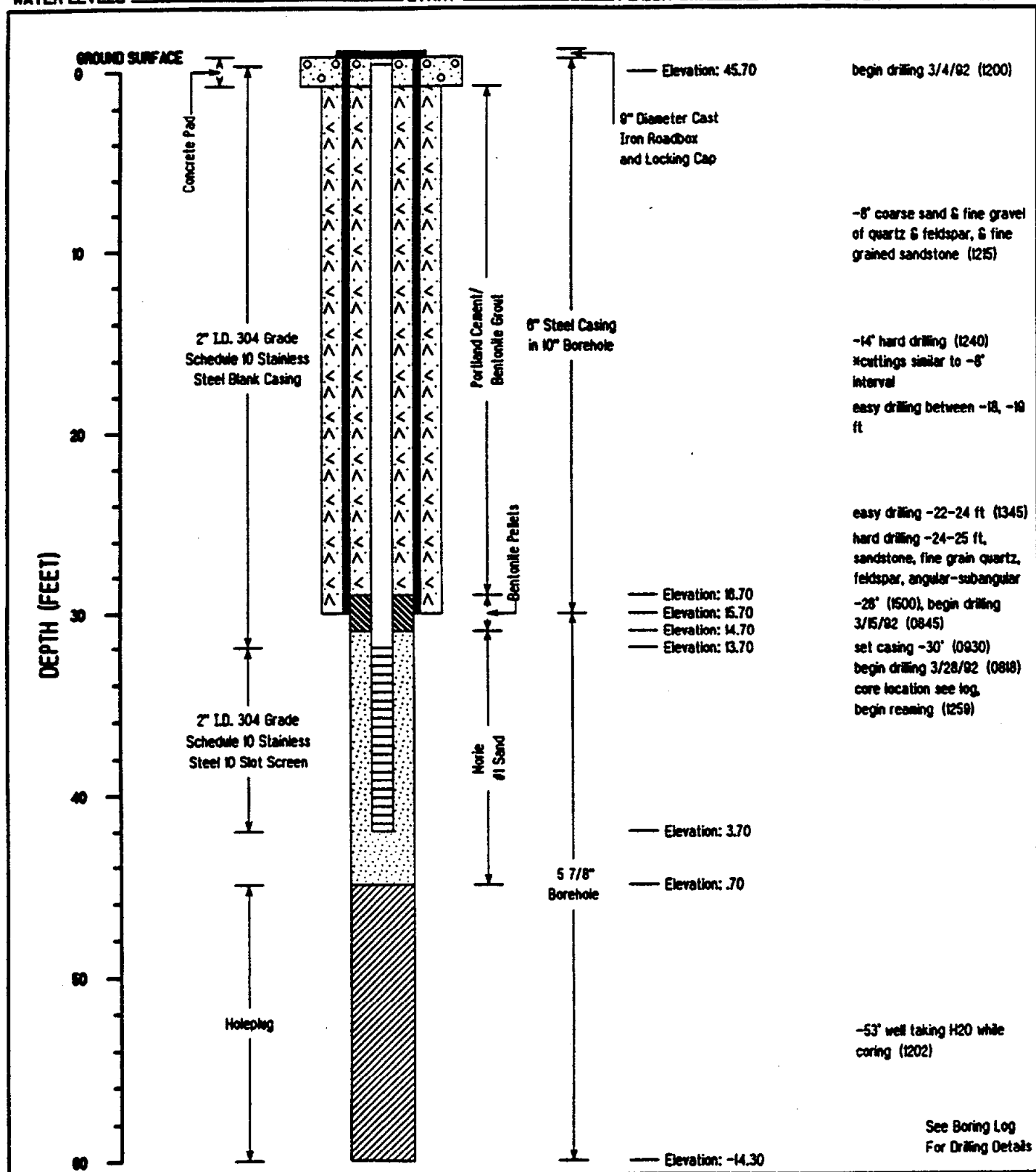
DRILLING METHOD AND EQUIPMENT Mobile B81 Water Rotary

WATER LEVELS 4.50 (ft); 40.67 (MSL), 8/22/92

START 4-15-92

FINISH 4-18-92

LOGGER D.Snyder, L. Vogel



MONITORING WELL RECORD

Well Permit No. 26 - 24475
Atlas Sheet Coordinates 26 : 13 : 535OWNER IDENTIFICATION - Owner S. W. S. REALTY
Address 500 RT. 17 S
City HASBROCK HEIGHTS State NJ Zip Code 07604WELL LOCATION - If not the same as owner please give address. Owner's Well No. BRMW-8
County Bergen Municipality HAYWOOD BORO Lot No. 4 Block No. 124
Address 87 Rt 17 N., Maywood, NJTYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 5 / 29 / 92
Regulatory Program Requiring Well CERCLA Case I.D. # 10105
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) CH2M HILL Tele. # 1 201 316-9300

WELL CONSTRUCTION

Total depth drilled 60 ft.Well finished to 42 ft.

Borehole diameter:

Top 10 in.Bottom 6 in.Well was finished: ☐ above grade
☒ flush mountedIf finished above grade, casing
height (stick up) above land
surface ft.

Was steel protective casing installed?

☒ Yes ☐ NoStatic water level after drilling 5 ft.Water level was measured using ScopeWell was developed for 1 hours at 2+ gpmMethod of development airWas permanent pumping equipment installed? ☐ Yes ☒ NoPump capacity NA gpmPump type: NADrilling Method Mud rotaryDrilling Fluid na Type of Rig Mobile B 61Name of Driller Robert AtkinsonHealth and Safety Plan submitted? ☐ Yes ☐ No

Level of Protection used on site (circle one) None D C B A

N.J. License No. J 1478Name of Drilling Company STATE INDUSTRIAL DRILLING

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0'	32'	2"	Stainless Steel
Outer Casing (Not Protective Casing)	0'	30'	6"	steel
Screen (Note slot size)	32'	42'	2"	stainless steel .010
Tail Piece	NA	NA	NA	
Gravel Pack	30'	42'	0"	# 1 Gravel
Annular Seal/Grout	0'	30'	10/6"	cement
Method of Grouting	Tremie Pressure			

GEOLOGIC LOG

(Copies of other geologic logs and/or
geophysical logs should be attached.)0'-8' sand
8'-25' weathered rock
25'-28' competent rock
28'-30' rock
30'-60' sandstone & shaleI certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable
State rules and regulations.Driller's Signature Robert AtkinsonDate 7/10/92



PROJECT NUMBER

NJ022948 ST W1

BORING NUMBER

BRMW9

SHEET 1 OF 1

WELL COMPLETION LOG

PROJECT Stepan Co. and Sears and Adjacent Properties RI

LOCATION Maywood, NJ

ELEVATION 53.3 (GS): 54.34 (inner casing)

DRILLING CONTRACTOR Environmental Drilling Inc., West Creek, NJ

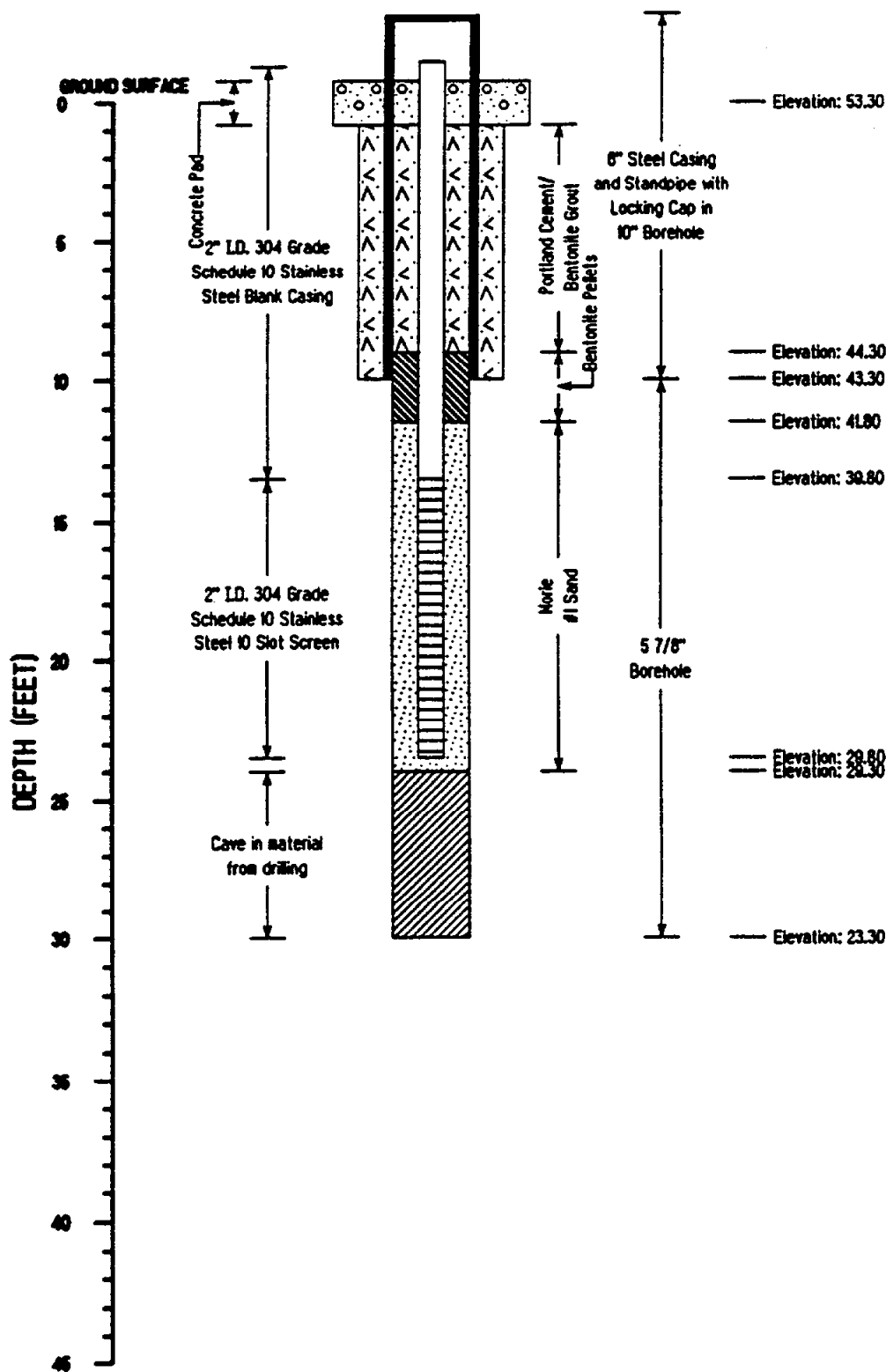
DRILLING METHOD AND EQUIPMENT Mobile B61 Water Rotary, B80 Air Rotary

WATER LEVELS 15.57 (ft): 38.77 (MSL), 8/22/92

START 3-10-92

FINISH 3-12-92

LOGGER L. Vogel



-10" borehole, hard drilling 10 casing set 3/10/92
Well construction details:
Well originally planned as overburden well but had to go a few feet into rock to get 1st H2O drilled to -14' no H2O (3/7/92) continued to -20' no H2O (3/8/92) at this point (-27') became BRMW9 lost H2O (3/8/92) continued to -30' (3/8/92) H2O rose to approx. -15' bgs, returned (3/10/92) to set casing rock at -2' hard drilling at -10' compared to -6' returned (3/12/92) to flushout well, cuttings from casing
-25' lost H2O approx. 100 gal.
-27' hard drilling

-30' total depth, 5 7/8" borehole
hole collapsed before well installation
6/12/92 returned to ream hole able to clean to -30' but keeps caving in unable to blow everything out, hole to large, silt & cobbles coming up. Set well at deepest possible depth.

See Boring Log
For Drilling Details

MONITORING WELL RECORD

Well Permit No. 26 28472
Atlas Sheet Coordinates 26 : 03 : 536OWNER IDENTIFICATION - Owner M.M. Well, Trustee
Address 51 Commerce Street
City Springfield State NJ Zip Code 07081WELL LOCATION - If not the same as owner please give address. Owner's Well No. BRW-9
County Bergen Municipality MAYWOOD BORO Lot No. 5 Block No. 124
Address 239 N/S RT 17, Maywood, NJTYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 6 / 12 / 92
Regulatory Program Requiring Well CERCLA Case I.D. # 10105
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) CH2M Hill Tele. # 1 201 316-9300

WELL CONSTRUCTION

Total depth drilled 30 ft.Well finished to 25 ft.

Borehole diameter:

Top 10 in.Bottom 6 in.Well was finished: ☐ above grade
☒ flush mountedIf finished above grade, casing
height (stick up) above land
surface ft.

Was steel protective casing installed?

☒ Yes ☐ NoStatic water level after drilling 14 ft.Water level was measured using M ScopeWell was developed for 2 hours at 2+ gpmMethod of development airWas permanent pumping equipment installed? ☐ Yes ☒ NoPump capacity NA gpmPump type: NADrilling Method Mud RotaryDrilling Fluid NA Type of Rig Mobile 61Name of Driller Thomas LynchHealth and Safety Plan submitted? ☐ Yes ☐ No

Level of Protection used on site (circle one) None D C B A

N.J. License No. 1499Name of Drilling Company ENVIRONMENTAL DRILLING

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0'	15'	2"	stainless steel
Outer Casing (Not Protective Casing)	0'	10'	6"	steel casing
Screen (Note slot size)	15'	25'	2"	stainless steel .010
Tail Piece	NA	NA	NA	
Gravel Pack	13'	25'	6"	# 1 Gravel
Annular Seal/Grout	0'	13'	10/6"	Cement
Method of Grouting				

GEOLOGIC LOG

(Copies of other geologic logs and/or
geophysical logs should be attached.)0'-2' top soil
2'-14' rock
14'-30' bedrockI certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable
State rules and regulations.Driller's Signature _____ Date 7/10/92

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.



PROJECT NUMBER

NJ022948 ST W1

BORING NUMBER

RRMW10

SHEET 1 OF 1

WELL COMPLETION LOG

PROJECT Stepan Co. and Sears and Adjacent Properties RI

LOCATION Maywood, NJ

ELEVATION 59.4 (GS); 58.95 (inner casing)

DRILLING CONTRACTOR

Environmental Drilling Inc., West Creek, NJ

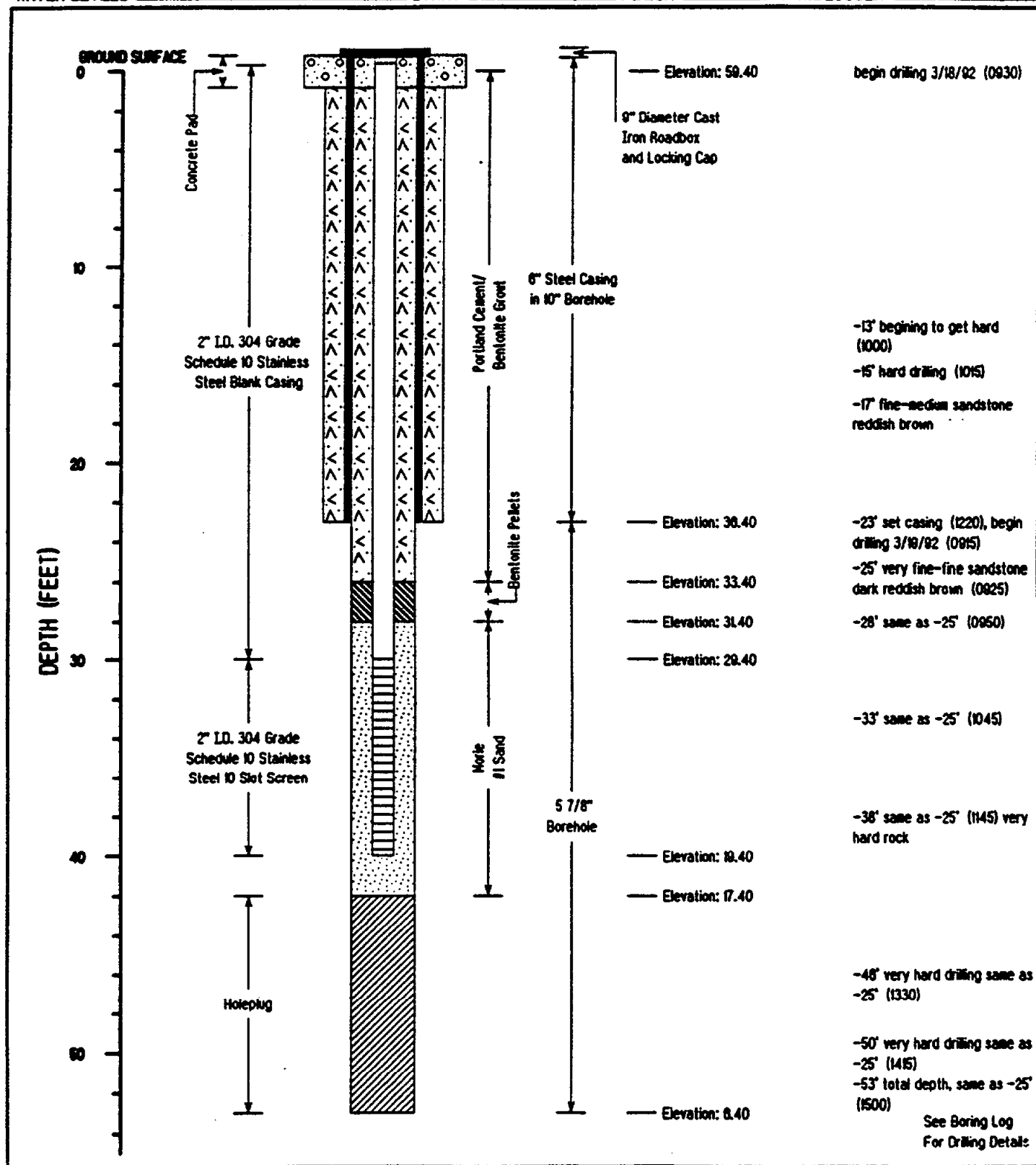
DRILLING METHOD AND EQUIPMENT Mobile B61 Water Rotary

WATER LEVELS 7.57 (ft); 51.38 (MSL), 6/22/92

START 3-18-92

FINISH 3-19-92

LOGGER L. Vogel



MONITORING WELL RECORD

Well Permit No. 28 - 28462
Atlas Sheet Coordinates 26 : 11 : 536OWNER IDENTIFICATION - Owner STEFAN COMPANY
Address 22 WEST FRONTAGE ROAD
City NORTHFIELD State IL Zip Code 60093WELL LOCATION - If not the same as owner please give address. Owner's Well No. BRMW-10
County Bergen Municipality Maywood HORO Lot No. 32 Block No. 124
Address 100 West Hunter Avenue, Maywood, NJTYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 6 / 04 / 92
Regulatory Program Requiring Well CH2M Case I.D. # 10105
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) CH2Mhill Tele. # 908 316-9300

WELL CONSTRUCTION

Total depth drilled 53 ft.Well finished to 29 ft.

Borehole diameter:

Top 10 in.Bottom 6 in.Well was finished: ☐ above grade☒ flush mountedIf finished above grade, casing
height (stick up) above land
surface ft.

Was steel protective casing installed?

☐ Yes ☒ NoStatic water level after drilling 10 ft.Water level was measured using M ScopeWell was developed for 1 hours at 2+ gpmMethod of development Submersible PumpWas permanent pumping equipment installed? ☐ Yes ☒ NoPump capacity NA gpmPump type: NADrilling Method Mud RotaryDrilling Fluid NA Type of Rig Mobile B-61Name of Driller Robert AtkinsonHealth and Safety Plan submitted? ☐ Yes ☐ No

Level of Protection used on site (circle one) None D C B A

N.J. License No. I 1478Name of Drilling Company ENVIRONMENTAL INTELLIGENCE

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0'	19'	2"	Stainless steel
Outer Casing (Not Protective Casing)	0'	25'	6"	Steel Casing
Screen (Note slot size)	19'	29'	2"	Stainless steel Slot .010
Tail Piece	NA	NA	NA	
Gravel Pack	17'	29'	6"	#1 Gravel
Annular Seal/Grout	0'	17'	10/6"	cement
Method of Grouting	Tremie Pressure			

GEOLOGIC LOG

(Copies of other geologic logs and/or
geophysical logs should be attached.)0'-12' sand, fine and medium
12'-17' weathered rock
17'-23' competent rock
23'-53' competent rockI certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable
State rules and regulations.Driller's Signature Robert AtkinsonDate 7/23/92



PROJECT NUMBER

NJ022948 SR.WT

BORING NUMBER

RRMWII

SHEET 1 OF 1

WELL COMPLETION LOG

PROJECT Stepan Co. and Sears and Adjacent Properties RI

LOCATION Maywood, NJ

ELEVATION 45.7 (GS); 47.79 (inner casing)

DRILLING CONTRACTOR Environmental Drilling Inc., West Creek, NJ

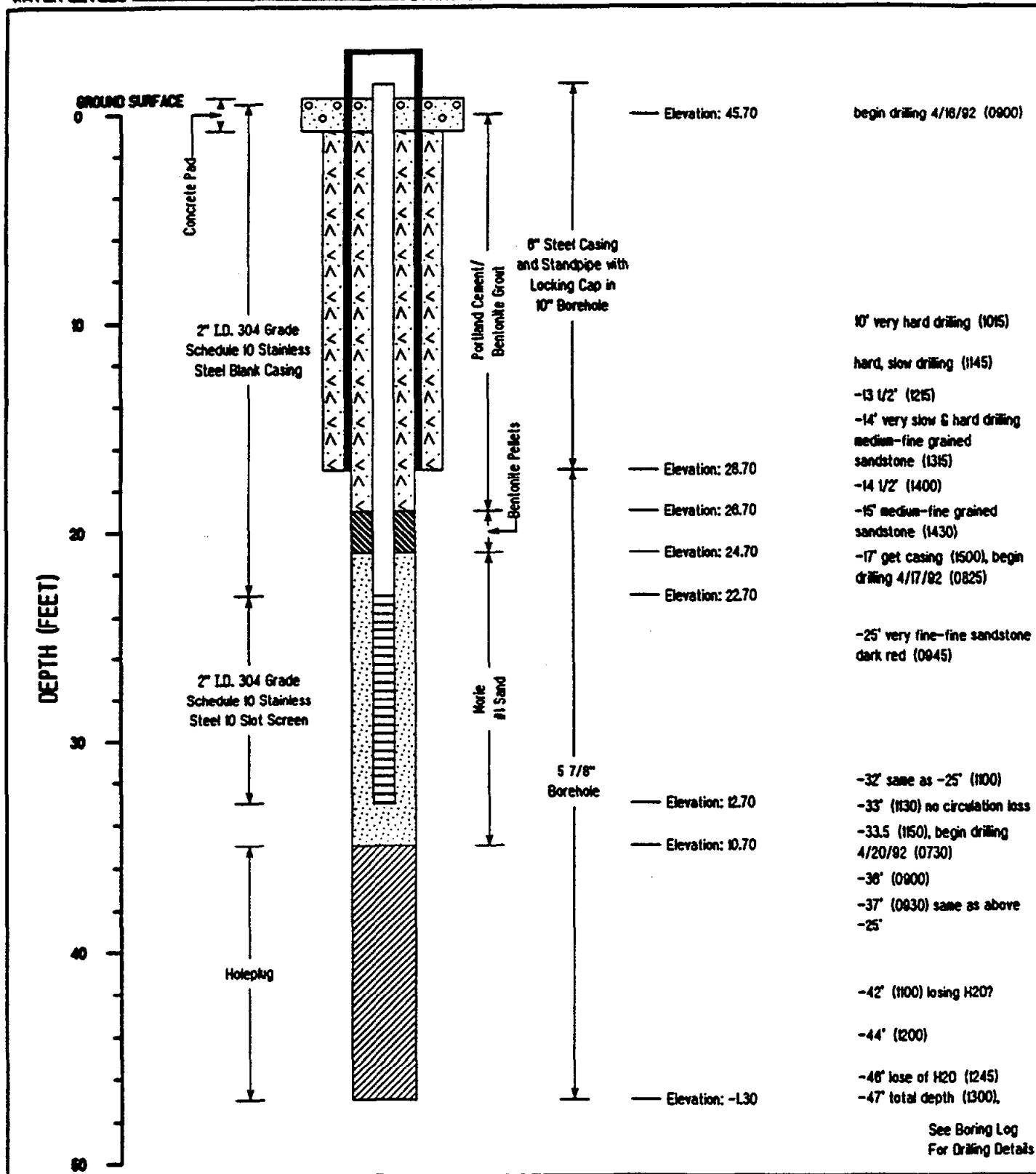
DRILLING METHOD AND EQUIPMENT CME ATV Water Rotary

WATER LEVELS 2.91 (ft); 44.88 (MSL), 6/22/92

START 4-18-92

FINISH 4-20-92

LOGGER L. Vogel, S. Repko



MONITORING WELL RECORD

Well Permit No. 26 - 28462
Atlas Sheet Coordinates 26 : 113 : 536

OWNER IDENTIFICATION - Owner KCN PROPERTIES
Address 77 TARPYTON RD SUITE 100
City WHITE PLAINS State NY Zip Code 10607

WELL LOCATION - If not the same as owner please give address. Owner's Well No. BRW-11
County Bergen Municipality MAYWOOD BORO Lot No. 30 Block No. 124
Address 149-151 Maywood Avenue, Maywood, NJ

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 6 / 11 / 92
Regulatory Program Requiring Well CERCLA Case I.D. # 16165
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) CH2M HILL Tele. # 908 316-9300

WELL CONSTRUCTION

Total depth drilled 47 ft.
m 33
Well finished to _____ ft.

Borehole diameter:
Top 10 in.
Bottom 6 in.

Well was finished: ☐ above grade
☐ flush mounted

If finished above grade, casing
height (stick up) above land
surface 2 ft.

Was steel protective casing installed?
☐ Yes ☒ No

Static water level after drilling 1 ft.

Water level was measured using M Scope

Well was developed for 1½ hours at 2+ gpm

Method of development Submersible Pump

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity NA gpm

Pump type: NA

Drilling Method Mud Rotary

Drilling Fluid	NA	Type of Rig	Mobile B-	53
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Name of Driller **Robert Atkinson**

Health and Safety Plan submitted? ☐ Yes ☐ No

Level of Protection used on site (circle one) None D C B A

N.J. License No. J1478

Name of Drilling Company ENVIRONMENTAL DRILLING

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	+2'	23'	2"	Stainless steel
Outer Casing (Not Protective Casing)	+2'	17'	6"	steel casing
Screen (Note slot size)	23'	33'	2"	1/4" Slot .010 S.S.
Tail Piece	NA	NA	NA	
Gravel Pack	21'	33'	6"	# 1 Gravel
Annular Seal/Grout	0'	21'	10/6"	Cement
Method of Grouting	Tremie Pressure			

GEOLOGIC LOG

(Copies of other geologic logs and/or geophysical logs should be attached.)

0'-4' fill
4'-9' sand & Gravel
9'-10' weathered rock
10'-17' rock
17'-33' bed rock
33'-47' bedrock

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature _____

Date 7/23/92

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.



PROJECT NUMBER

NJ022948 EA WT

BORING NUMBER

BRMW12

SHEET 1 OF 1

WELL COMPLETION LOG

PROJECT Stepan Co. and Sears and Adjacent Properties RI

LOCATION Maywood, NJ

ELEVATION 47.6 (GS); 47.23 (inner casing)

DRILLING CONTRACTOR Environmental Drilling Inc., West Creek, NJ

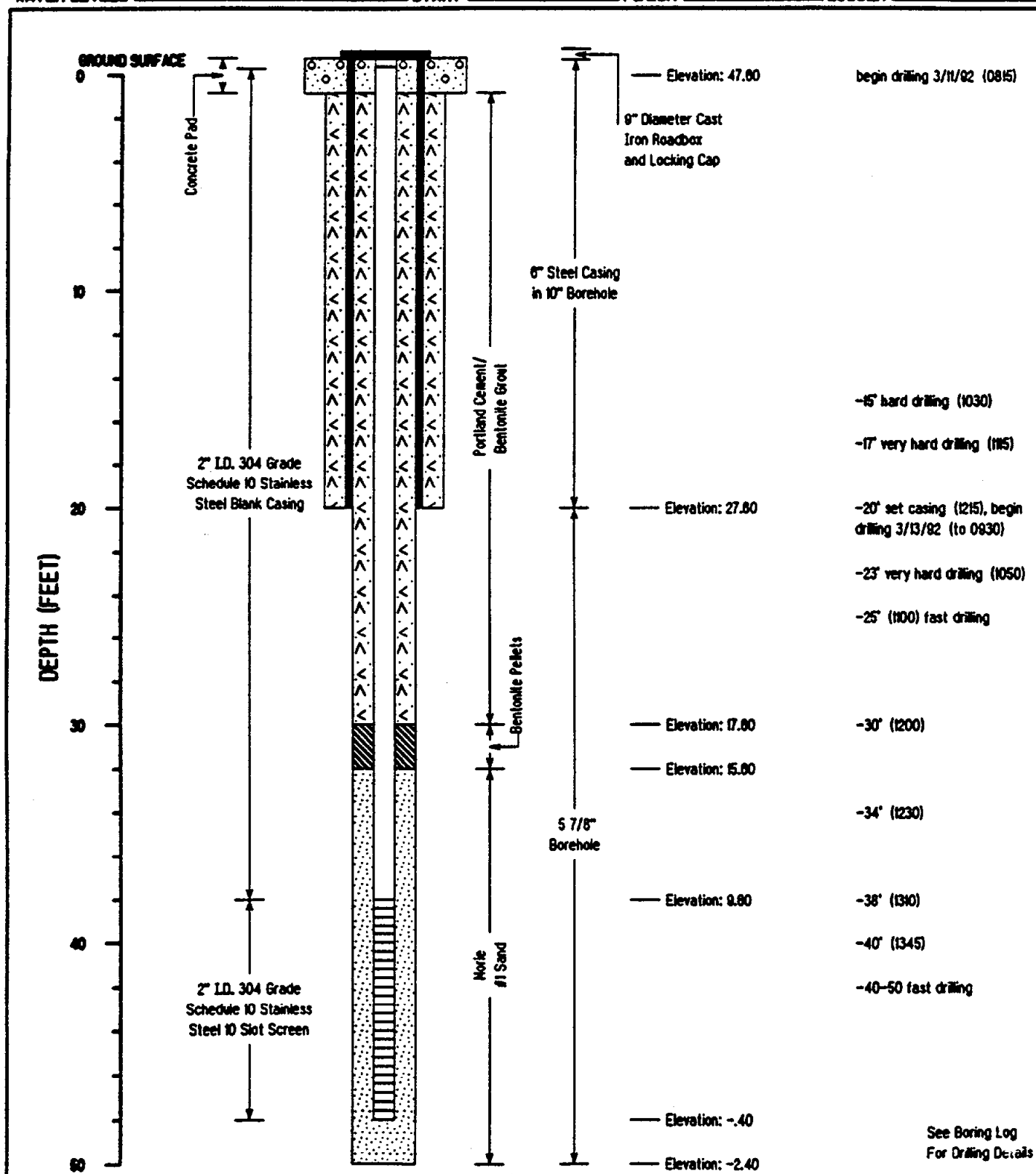
DRILLING METHOD AND EQUIPMENT Mobile B81 Water Rotary

WATER LEVELS 4.58 (ft); 42.85 (MSL), 8/22/92

START 3-11-92

FINISH 3-13-92

LOGGER L. Vogel



MONITORING WELL RECORD

Well Permit No. 26 - 28473
Atlas Sheet Coordinates 24 : 03 : 5.36OWNER IDENTIFICATION - Owner H. H. WEIL, TRUSTEE
Address 51 COMMERCE ST
City SPRINGFIELD State NJ Zip Code 07081WELL LOCATION - If not the same as owner please give address. Owner's Well No. BRMW-12
County Bergen Municipality HAYWOOD BOHD Lot No. 5 Block No. 124
Address 239 N/S RT 17, Maywood, NJTYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 5 / 28 / 92
Regulatory Program Requiring Well CARLA Case I.D. # 10105
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) CH2M HILL Tele. # 1 201 3169300

WELL CONSTRUCTION

Total depth drilled 50 ft.Well finished to 48 ft.

Borehole diameter:

Top 10 in.Bottom 6 in.Well was finished: ☐ above grade
☐ flush mountedIf finished above grade, casing
height (stick up) above land
surface ft.

Was steel protective casing installed?

☐ Yes ☒ NoStatic water level after drilling 5 ft.Water level was measured using M ScopeWell was developed for 1 hours at 2+ gpmMethod of development AirWas permanent pumping equipment installed? ☐ Yes ☒ NoPump capacity NA gpmPump type: NADrilling Method Mud RotaryDrilling Fluid NA Type of Rig Mobile B-61Name of Driller Robert AtkinsonHealth and Safety Plan submitted? ☐ Yes ☐ No

Level of Protection used on site (circle one) None D C B A

N.J. License No. J 1478Name of Drilling Company ENVIRONMENTAL DRILLING, INC.

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0'	38'	2"	Stainless Steel
Outer Casing (Not Protective Casing)	0'	17-20'	6"	Steel Casing
Screen (Note slot size)	38'	48'	2"	Stainless Steel
Tail Piece	NA	NA	NA	
Gravel Pack	36'	48'	6"	# 1 Gravel
Annular Seal/Grout	0'	36'	10/6"	cement
Method of Grouting	Traffic Pressure			

GEOLOGIC LOG (Copies of other geologic logs and/or
geophysical logs should be attached.)0'-7' sand
7'-13' weathered rock
13'-20' rock
20'-50' bedrockI certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable
State rules and regulations.Driller's Signature Robert AtkinsonDate 6/17/92



PROJECT NUMBER

N.J022948 SR WT

BORING NUMBER

RRMW13

SHEET 1 OF 1

WELL COMPLETION LOG

PROJECT Stepan Co. and Sears and Adjacent Properties RI

LOCATION Maywood, NJ

ELEVATION 47.6 (GS); 47.21 (inner casing)

DRILLING CONTRACTOR

Environmental Drilling Inc., West Creek, NJ

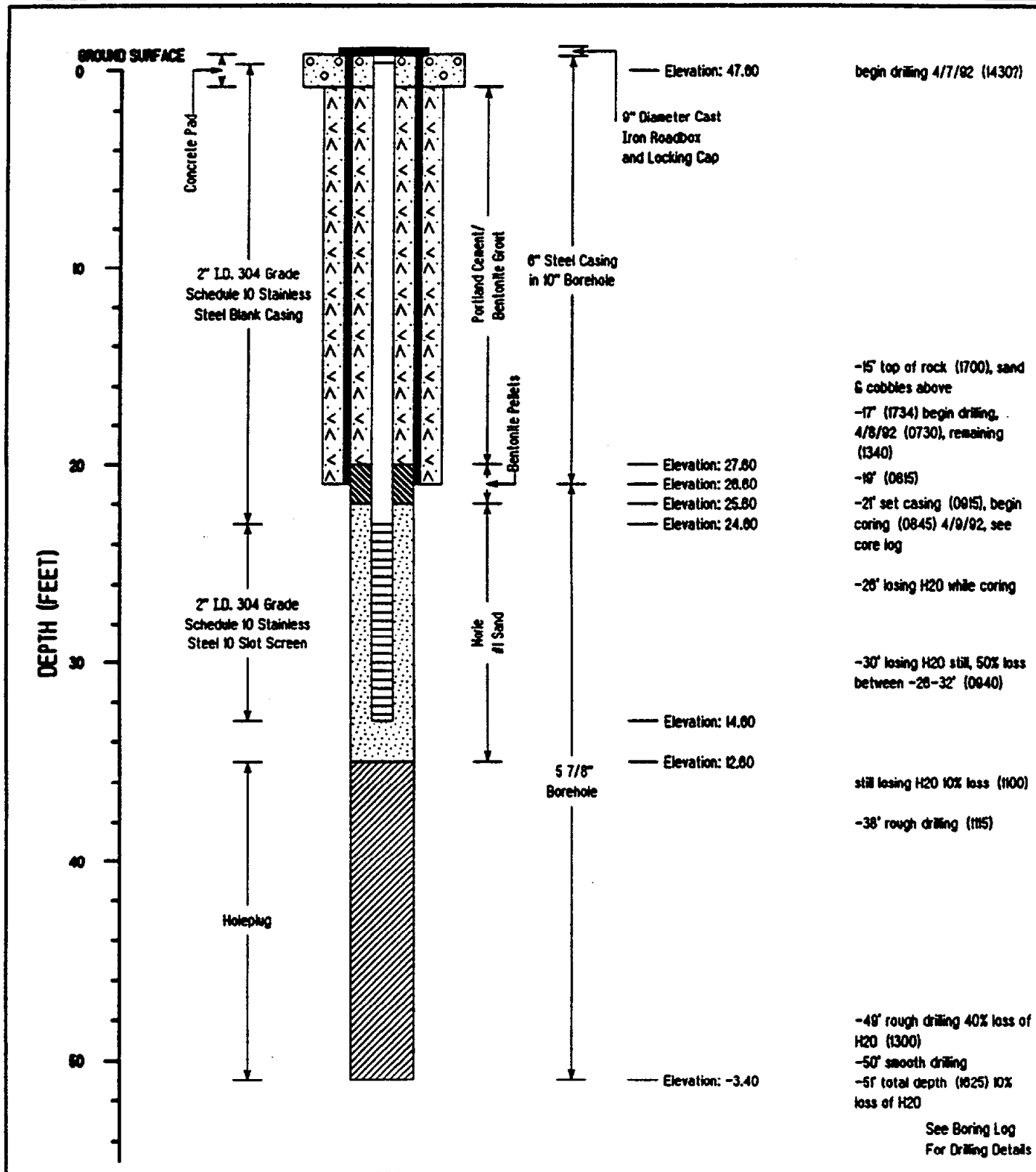
DRILLING METHOD AND EQUIPMENT Mobile 880 Water Rotary

WATER LEVELS 3.81 (ft); 43.40 (MSL), 6/22/92

START 4-7-92

FINISH 4-9-92

LOGGER L. Vogel



MONITORING WELL RECORD

Well Permit No. 26 - 28453
Atlas Sheet Coordinates 26 : 03 : 536

OWNER IDENTIFICATION - Owner EIN PROPERTIES
Address 77 TARRYTOWN RD. SUITE 100
City WHITE PLAINS State NY Zip Code 10607

WELL LOCATION - If not the same as owner please give address. Owner's Well No. BRW-13
County Bergen Municipality MAYWOOD Lot No. 30 Block No. 124
Address 149-151 Maywood Avenue, Maywood, NJ

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 6 / 10 / 92
Regulatory Program Requiring Well CORCLA Case I.D. # 10105
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) CH2M HILL Tele. # 908 316-9300

WELL CONSTRUCTION

Total depth drilled 51 ft.
23

Well finished to ft.

Borehole diameter:

Top 10 in.

Bottom 6 in.

Well was finished: ☐ above grade
☒ flush mounted

If finished above grade, casing
height (stick up) above land
surface ft.

Was steel protective casing installed?
☐ Yes ☒ No

Static water level after drilling 4 1/2 ft.

Water level was measured using **in Scope**

Well was developed for 1 1/2 hours at 2+ gpm

Method of development submersible pump

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity NA gpm

Pump type: **DA**

Drilling Method **Mud Rotary**

Drilling Fluid	NA	Type of Rig	Mobile B-80 B-61
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Name of Driller **Thomas Lynch & Robert Atkinson**

Health and Safety Plan submitted? ☐ Yes ☐ No

Level of Protection used on site (circle one) None D C B A

N.J. License No. I 1499 II478

Name of Drilling Company ENVIRONMENTAL DRILLING, INC.

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0'	23'	2"	Stainless steel
Outer Casing (Not Protective Casing)	0'	23'	6"	Steel casing
Screen (Note slot size)	23'	33'	2"	slot .010 8.8.
Tail Piece	NA	NA	NA	
Gravel Pack	21'	33'	6"	# 1 Gravel
Annular Seal/Grout	0'	21'	10/6"	cement
Method of Grouting	tremie pressure			

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0'-9' fill
9'-15' sand & gravels
15'-16' sandstone & Shale
16'-21' sandstone
21'-51' sandstone

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature _____ Date _____

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.



PROJECT NUMBER

NJ022948 SR WT

BORING NUMBER

RRMW14

SHEET 1 OF 1

WELL COMPLETION LOG

PROJECT Stepan Co. and Sears and Adjacent Properties RI

LOCATION Maywood, NJ

ELEVATION 48.6 (GS); 48.22 (inner casing)

DRILLING CONTRACTOR

Environmental Drilling Inc., West Creek, NJ

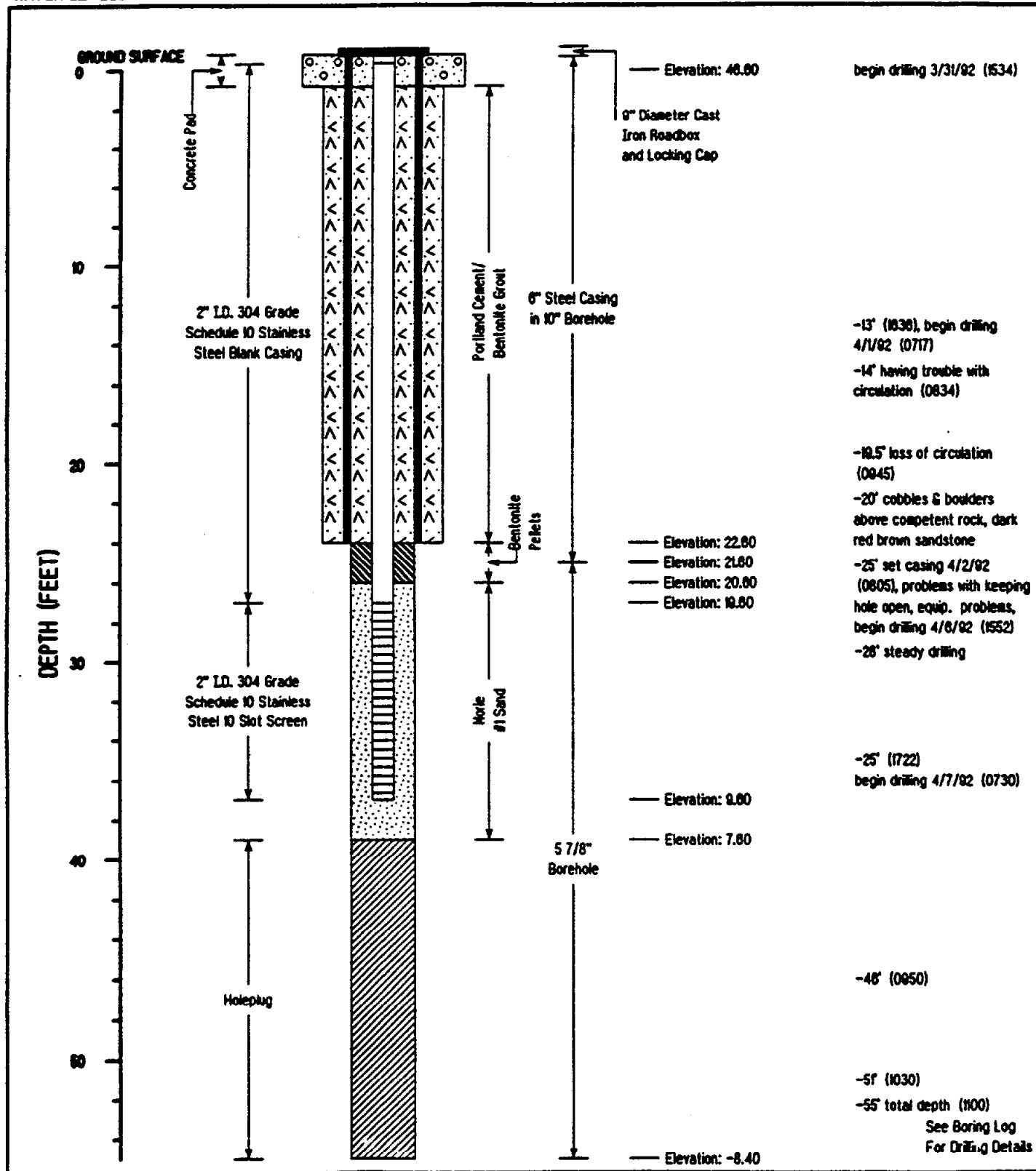
DRILLING METHOD AND EQUIPMENT Mobile B80 Water Rotary

WATER LEVELS 4.05 (ft); 42.17 (MSL), 6/22/92

START 3-31-92

FINISH 4-7-92

LOGGER S. Scanlon, D. Snyder



MONITORING WELL RECORD

Well Permit No. 26 - 284154
Atlas Sheet Coordinates 26 : 04 : 136OWNER IDENTIFICATION - Owner FIN PROPERTIES
Address 77 TARRYTOWN RD. SUITE 100
City WHITE PLAINS State NY Zip Code 10607WELL LOCATION - If not the same as owner please give address. Owner's Well No. BRMW-14
County 149-151 Maywood Ave. Municipality MAYWOOD BORO Lot No. 30 Block No. 124
Address Maywood, NJ Bergen Co.TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 6 / 10 / 92
Regulatory Program Requiring Well CERCLA Case I.D. # 10105
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Ch2M Hill Tele. # 908 316-9300

WELL CONSTRUCTION

Total depth drilled 55 ft.Well finished to 37 ft.Borehole diameter: 10Top 10 in.Bottom 6 in.Well was finished: ☐ above grade
☒ flush mountedIf finished above grade, casing
height (stick up) above land
surface ft.

Was steel protective casing installed?

☐ Yes ☒ NoStatic water level after drilling 4 ft.Water level was measured using M ScopeWell was developed for 1 hours at 2+ gpmMethod of development submersible PumpWas permanent pumping equipment installed? ☐ Yes ☒ NoPump capacity NA gpmPump type: NADrilling Method Mud RotaryDrilling Fluid NA Type of Rig Mobile B-80Name of Driller Thomas LynchHealth and Safety Plan submitted? ☐ Yes ☐ No

Level of Protection used on site (circle one) None D C B A

N.J. License No. J 1499Name of Drilling Company ENVIRONMENTAL POLLUTION

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	0'	27'	2"	316 stainless steel
Outer Casing (Not Protective Casing)	0'	27'6"	6"	Steel Casing
Screen (Note slot size)	27'	37'	2"	Slot .010 S.S.
Tail Piece	NA	NA	NA	
Gravel Pack	25'	27'	6"	#1 Gravel
Annular Seal/Grout	0'	25'	10/6"	cement
Method of Grouting	Tremie Pressure			

GEOLOGIC LOG

(Copies of other geologic logs and/or
geophysical logs should be attached.)0'-7' fill
7'-11' clay
11'-12' sand & cobbles
12'-20' sand, silt with cobbles
20'-25' sandstone
25'-35' sandstone & Shale
35'-55' sandstone & ShaleI certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable
State rules and regulations.

Driller's Signature

Date 7/23/92



PROJECT NUMBER

NJ022948 ST WT

BORING NUMBER

BRMW16

SHEET 1 OF 1

WELL COMPLETION LOG

PROJECT Stepan Co. and Sears and Adjacent Properties RI

LOCATION Maywood, NJ

ELEVATION 86.9 (GS); 87.96 (inner casing)

DRILLING CONTRACTOR Environmental Drilling Inc., West Creek, NJ

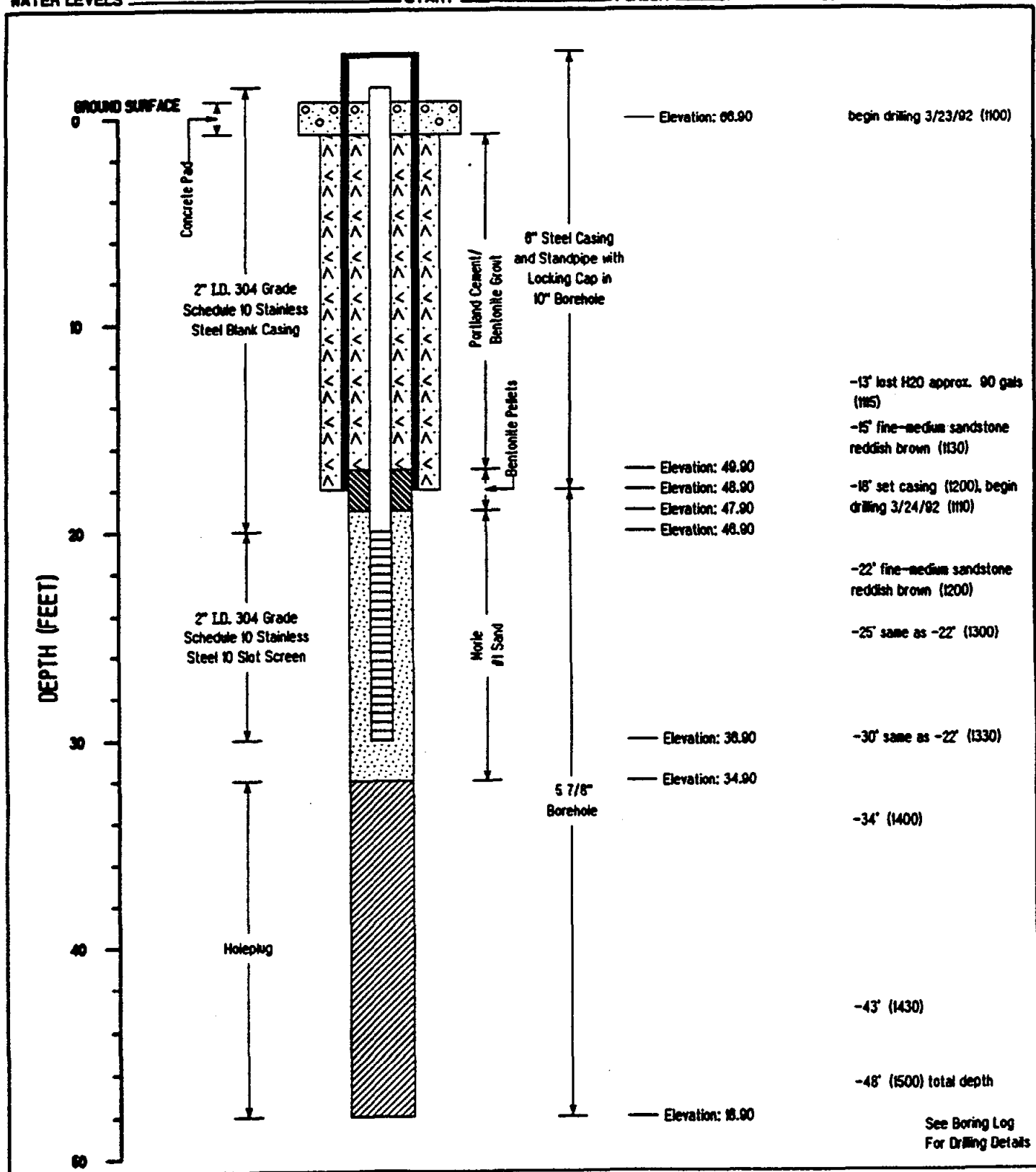
DRILLING METHOD AND EQUIPMENT Mobile B81 Water Rotary

WATER LEVELS 9.96 (ft); 58.00 (MSL), 6/22/92

START 3-23-92

FINISH 3-24-92

LOGGER L. Vogel



MONITORING WELL RECORD

Well Permit No. 26 - 28465
Atlas Sheet Coordinates 26 : 113 : 536

OWNER IDENTIFICATION - Owner STEPAN COMPANY
Address 22 WEST FRONTAGE ROAD
City NORTHFIELD State IL Zip Code 60093

WELL LOCATION - If not the same as owner please give address. Owner's Well No. BRMW-16
County Bergen Municipality MAYWOOD BORO Lot No. 40 Block No. 124
Address 100 West Hunter Avenue, Maywood, NJ

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 6 / 09 / 92
Regulatory Program Requiring Well CMBCLA Case I.D. # 10105
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) CH2M HILL Tele. # 1 908 316-9300

WELL CONSTRUCTION

Total depth drilled 47 ft.

Well finished to 30 ft.

Borehole diameter:

Top 10 in.

Bottom 6 in.

Well was finished: ☒ above grade
☐ flush mounted

If finished above grade, casing height (stick up) above land surface 2 ft.

Was steel protective casing installed?

☒ Yes ☐ No

Static water level after drilling 8 ft.

Water level was measured using A Scope

Well was developed for 2+ hours at 2+ gpm

Method of development Submersible Pump

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity NA gpm

Pump type: NA

Drilling Method Mud Rotary

Drilling Fluid NA Type of Rig mobile B-61

Name of Driller Robert Atkinson

Health and Safety Plan submitted? ☐ Yes ☐ No

Level of Protection used on site (circle one) None D C B A

N.J. License No. J1478

Name of Drilling Company INSTITUTE OF APPLIED DRILLING

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	+2'	20'	2"	Stainless steel
Outer Casing (Not Protective Casing)	+2'	18'	6"	Steel Casing
Screen (Note slot size)	20'	30'	2"	slot .010 S.S.
Tail Piece	NA	NA	NA	
Gravel Pack	18'	30'	6"	# 1 Gravel
Annular Seal/Grout	0'	18'	10/6"	Cement
Method of Grouting	Tremie Pressure			

GEOLOGIC LOG

(Copies of other geologic logs and/or geophysical logs should be attached.)

0'-13' sand
13'-18' rock
18'-50' rock

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature [Signature]

Date 72 7/23/92



PROJECT NUMBER

NJ022948 ST WT

BORING NUMBER

RRMW17

SHEET 1 OF 1

WELL COMPLETION LOG

PROJECT Stepan Co. and Sears and Adjacent Properties RI

LOCATION Maywood, NJ

ELEVATION 80.3 (GS); 62.04 (inner casing)

DRILLING CONTRACTOR Environmental Drilling Inc., West Creek, NJ

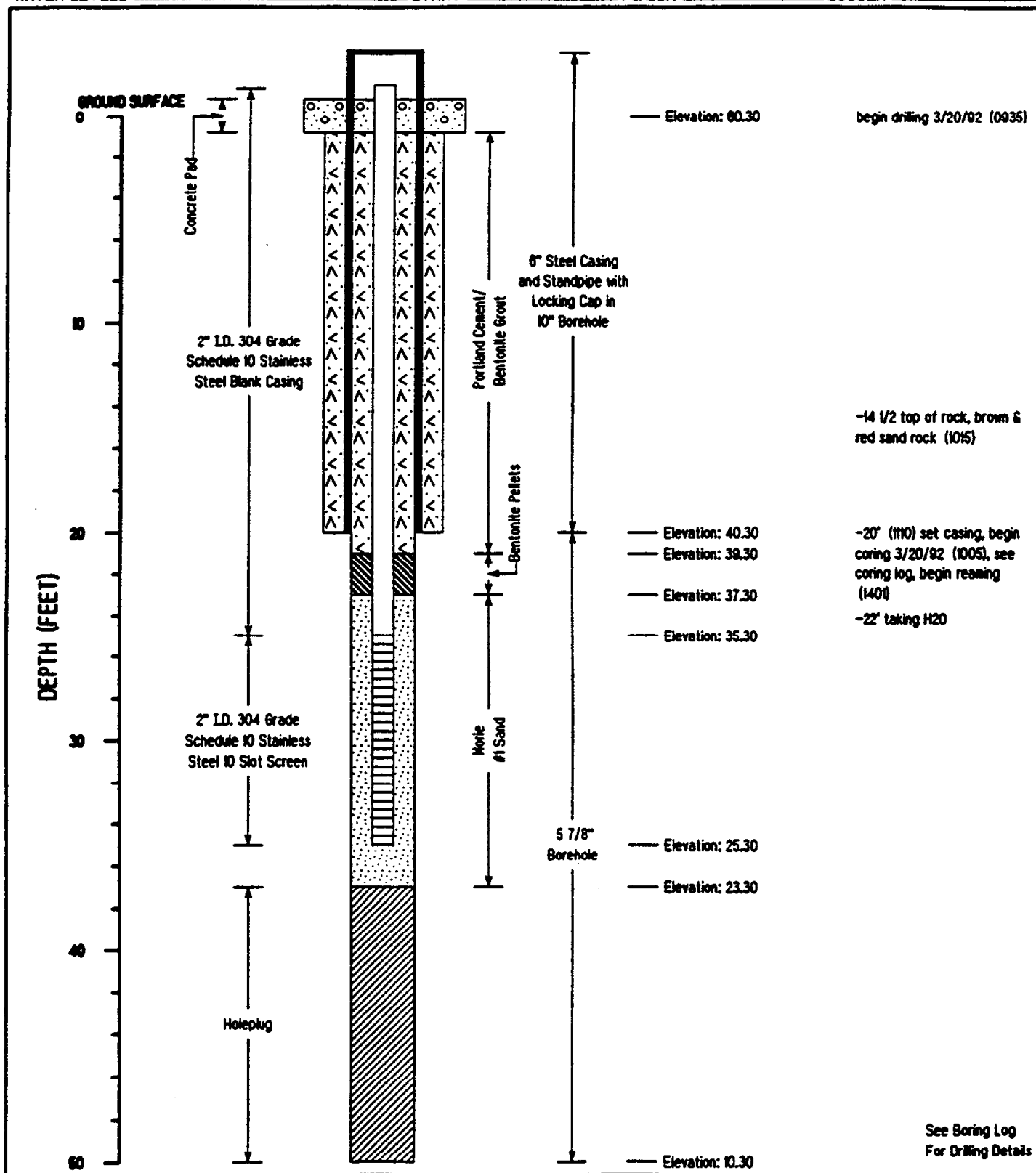
DRILLING METHOD AND EQUIPMENT Mobile B80 Water Rotary

WATER LEVELS 8.17 (ft); 55.87 (MSL), 8/22/92

START 3-20-92

FINISH 3-23-92

LOGGER D. Snyder



MONITORING WELL RECORD

Well Permit No. 26 - 28466
Atlas Sheet Coordinates 26 : 03 : 53EOWNER IDENTIFICATION - Owner STEPAN COMPANY
Address 22 WEST FRONTAGE ROAD
City NORTHFIELD State IL Zip Code 60093WELL LOCATION - If not the same as owner please give address. Owner's Well No. BRMW-17
County Bergen Municipality HAYWOOD BORO Lot No. 40 Block No. 124
Address 100 West Hunter Avenue, Maywood, NJTYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 6 / 9 / 92
Regulatory Program Requiring Well CSGLA Case I.D. # 10105
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) CH2M HILL Tele. # 1 908 316-9300

WELL CONSTRUCTION

Total depth drilled 50 ft.Well finished to 35' ft.

Borehole diameter:

Top 10 in.Bottom 6 in.Well was finished: ☒ above grade
☐ flush mountedIf finished above grade, casing
height (stick up) above land
surface 2 ft.

Was steel protective casing installed?

☒ Yes ☐ NoStatic water level after drilling 4 ft.Water level was measured using M ScopeWell was developed for 1 1/2 hours at 2+ gpmMethod of development submersible PumpWas permanent pumping equipment installed? ☐ Yes ☒ NoPump capacity NA gpmPump type: NADrilling Method Mud RotaryDrilling Fluid NA Type of Rig Mobile B-80Name of Driller Robert Atkins & Thomas LynchHealth and Safety Plan submitted? ☐ Yes ☐ No

Level of Protection used on site (circle one) None D C B A

N.J. License No. J 1478 & J1499Name of Drilling Company ENVIRONMENTAL DRILLING INC.

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	+2'	25'	2"	Stainless steel
Outer Casing (Not Protective Casing)	+3'	20'	6"	Steel Casing
Screen (Note slot size)	25'	35'	2"	Slot .010 S.S.
Tail Piece	NA	NA	NA	
Gravel Pack	23'	35'	6"	# 1 Gravel
Annular Seal/Grout	0'	23'	10/6"	Cement
Method of Grouting	Tremie Pressure			

GEOLOGIC LOG

(Copies of other geologic logs and/or
geophysical logs should be attached.)0'-4' fill
4'-15' silt and clay
15'-20' sandstone & Shale
20'-50' rockI certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable
State rules and regulations.Driller's Signature: [Signature]Date 7/23/92



PROJECT NUMBER

NJ022948 ST.WT

BORING NUMBER

BRM15

SHEET OF

WELL COMPLETION LOG

PROJECT Stepan Co. and Sears and Adjacent Properties RI

LOCATION Maywood, NJ

ELEVATION 70.2 (GS): 71.63 (inner casing)

DRILLING CONTRACTOR Environmental Drilling Inc., West Creek, NJ

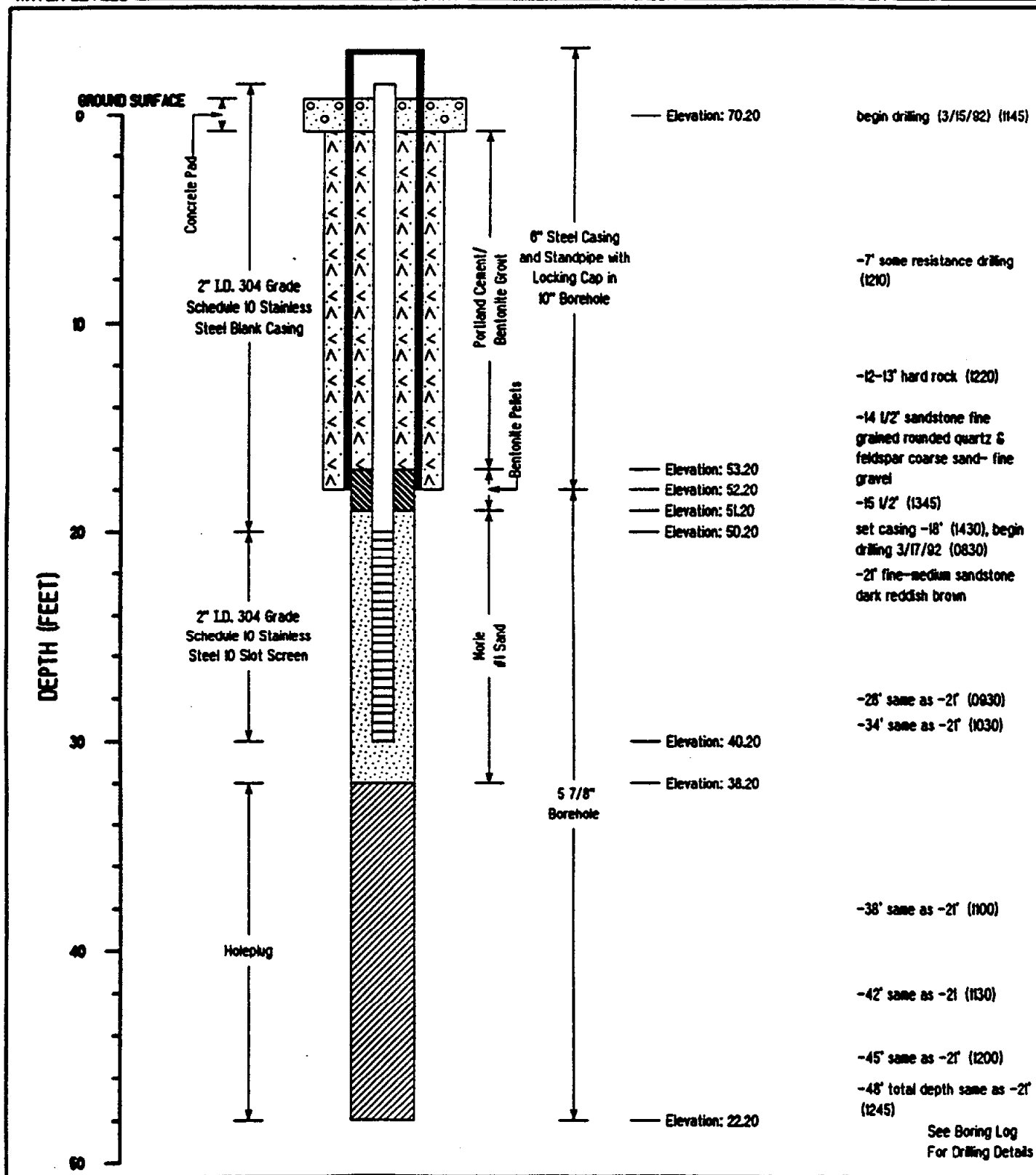
DRILLING METHOD AND EQUIPMENT Mobile B61 Water Rotary

WATER LEVELS 11.89 (ft): 59.74 (MSL), 6/22/92

START 3-16-92

FINISH 3-17-92

LOGGER L. Vogel



MONITORING WELL RECORD

Well Permit No. 26 - 28892
Atlas Sheet Coordinates 26 : 03 : 536OWNER IDENTIFICATION - Owner STEPHAN COMPANY
Address 22 WEST FRONTAGE ROAD
City NORTHFIELD State ILL Zip Code 60093WELL LOCATION - If not the same as owner please give address. Owner's Well No. BRMW-15
County Bergen Municipality MAYWOOD BORO Lot No. 40 Block No. 124
Address 100 West Hunter Avenue, Maywood, NJTYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 6 / 01 / 92
Regulatory Program Requiring Well CERCLA Case I.D. # 10105
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) CH2M Hill Tele. # 908 316-9300

WELL CONSTRUCTION

Total depth drilled 48 ft.Well finished to 35 ft.

Borehole diameter:

Top 10 in.Bottom 6 in.Well was finished: ☒ above grade.☐ flush mountedIf finished above grade, casing
height (stick up) above land
surface 2 ft.

Was steel protective casing installed?

☒ Yes ☐ NoStatic water level after drilling 8 1/2 ft.Water level was measured using M ScopeWell was developed for 1 hours at 2+ gpmMethod of development AIRWas permanent pumping equipment installed? ☐ Yes ☒ NoPump capacity NA gpmPump type: NADrilling Method Mud rotaryDrilling Fluid NA Type of Rig Mobile B-61Name of Driller Robert AtkinsonHealth and Safety Plan submitted? ☐ Yes ☐ No

Level of Protection used on site (circle one) None D C B A

N.J. License No. J-1478Name of Drilling Company DRILLING

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	+2'	25'	2"	Stainless Steel
Outer Casing (Not Protective Casing)	0'	18'	6"	Steel
Screen (Note slot size)	25'	35'	2"	Stainless Steel .010
Tail Piece	NA	NA	NA	
Gravel Pack	23'	35'	6"	# 1 Gravel
Annular Seal/Grout	0'	23'	10/6"	Cement
Method of Grouting	Tremie Pressure			

GEOLOGIC LOG (Copies of other geologic logs and/or
geophysical logs should be attached.)0'-9' sand
9'-11' weathered rock
11'-18' conglomerate rock
18'-48' comp. rockI certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable
State rules and regulations.Driller's Signature [Signature]Date 7/10/92