

100 WATER STREET

EAST PROVIDENCE, R I

DATE \_\_\_\_\_

HOLE NO. OW8

to Weston Geophysical Corp.

1 ADDRESS Westboro, Mass

PROJECT NAME Economic Planning Group

LOCATION Woburn, Mass

REPORT SENT TO above

1 PROJ. NO.

## OFFSET

SAMPLES SENT TO Taken at Site

OUR JOB NO. 86-163

SURF. ELEV.

GROUND WATER OBSERVATIONS			CASING	SAMPLER	CORE BAR.	Date	Time
At <u>2' 7"</u>	after <u>comp.</u> Hours	Type	<u>HW</u>	<u>None</u>	<u>None</u>	START	<u>10/4/85</u> <u>      </u> a.m.
		Size: D	<u>4"</u>	<u>      </u>	<u>      </u>	COMPLETE	<u>10/4/85</u> <u>      </u> p.m.
At <u>      </u>	after <u>      </u> Hours	Hammer Wt	<u>300#</u>	<u>      </u>	<u>      </u>	TOTAL HRS.	<u>      </u> p.m.
		Hammer Fall	<u>24"</u>	<u>      </u>	<u>      </u>	BORING FOREMAN	<u>R. Eastwood</u>
						INSPECTOR	<u>      </u>
						SOILS ENGR.	<u>      </u>

LOCATION OF BORING:

**Woods**

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler			Moisture Density or Consist.	Strata Change Elev.	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc. Rock-color, type, condition, hard- ness, Drilling time, seams and etc.	SAMPLE		
				From 0-6	6-12	To 12-18				No	Pen	Rec.
		No samples							General description of soil from wash - Brown fine to med. SAND, w/tr. of medium gravel & silt			
								14'				
									Bottom of Boring 14'			
									Installed O.W. @ 18'			

GROUND SURFACE TO 14'

USED 4 "CASING: THEN Installed well

**Sample Type**

**D=Dry C=Cored W=Washed**

UP: Undisturbed Piston

TP=Test Pit A=Auger V=Vane Test

UT=Undisturbed Thinwall

### Proportions Used

trace 0 to 10%

title	10 to 20%
-------	-----------

some 20 to 35%

and 35 to 50%

140 lb Wt. x 30" fall on 2" O.D. Sampler

### Cohesionless Density

0-10      Loose

10-30 Med. Dense  
30-50 Dense

50 + Very Dense

### on 2" O.D. Sampler

### Cohesive Consistency

0-4 Soft 30 + Hard

4-8 M/Stiff  
9-15 Stiff

15-30 V-Soft

**SUMMARY:**

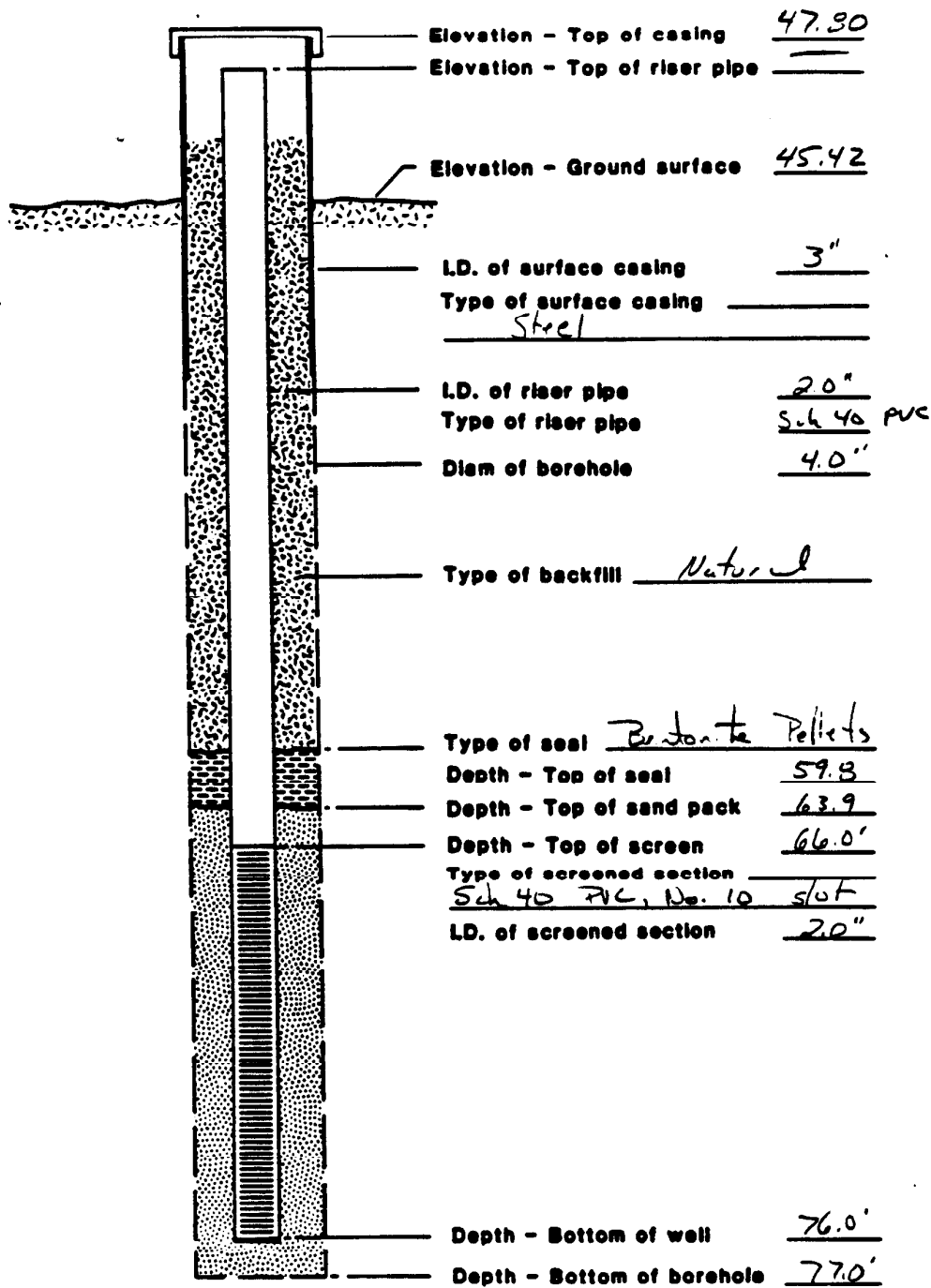
## Earth Boring

### Rock Coring

**Samples** —

HOLE NO. OW8-S

# INSTALLATION REPORT MONITORING WELL No. W-8





# GUILD DRILLING CO., INC.

100 WATER STREET EAST PROVIDENCE, R I

SHEET 1 of 2

DATE

HOLE NO. OW8-D W-8

LINE & STA.

OFFSET

SURF. ELEV.

TO Weston Geophysical Corp.

ADDRESS Westboro, Mass

PROJECT NAME Economic Planning Group

LOCATION Woburn, Mass

REPORT SENT TO above

PROJ. NO.

SAMPLES SENT TO Taken at Site

OUR JOB NO. 86-163

GROUND WATER OBSERVATIONS			CASING	SAMPLER	CORE BAR	Date	Time
At <u>2'9"</u>	after <u>Comp</u> Hours	Type	HW NW	S/S	NV2	START	<u>9/26/85</u> a.m.
At	after	Size I.D.	4" 3"	1 3/8"		COMPLETE	<u>10/1/85</u> p.m.
		Hammer Wt.	300#	140#	BIT	TOTAL HRS.	
		Hammer Fall	24"	30"	Dia.	BORING FOREMAN	<u>R. Eastwood</u>
						INSPECTOR	
						SOILS ENGR.	

## LOCATION OF BORING:

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler			Moisture Density or Consist.	Strata Change Elev.	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc. Rock-color, type, condition, hardness, Drilling time, seams and etc.	SAMPLE		
				From 0-6	6-12	To 12-18				No	Pen	Rec.
		0'-2'	D	1	1	1	D/loose		Brown fine SAND	1	24"	16"
		2'-4'	D	1	3	4	W/loose	4'		2	24"	19"
		4'-6'	D	8	13	18	W/m/d		Brown fine SAND & Fine to medium gravel, tr. of silt			
						22						
		9'-11'	D	5	5	6	W/loose			4	24"	13"
						9						
		14'-16'	D	5	5	5	"			5	24"	14"
						10						
		19'-21'	D	10	10	10	W/m/d	18'6"	Brown fine SAND w/fine to medium gravel & silt layers	6	24"	19"
						10						
		24'-26'	D	5	7	10	W/loose			7	24"	17"
						9						
		29'-31'	D	6	8	14	W/m/d			8	24"	12"
						13						
		34'-36'	D	7	8	10	"	37'		9	24"	10"
						12						

GROUND SURFACE TO 62'

USED 4 & 3 "CASING: THEN cored

Sample Type

D=Dry C=Cored W=Washed

UP=Undisturbed Piston

TP=Test Pit A=Auger V=Vane Test

UT=Undisturbed Thinwall

Proportions Used

trace 0 to 10%

little 10 to 20%

some 20 to 35%

and 35 to 50%

140 lb Wt. x 30" fall on 2" O.D. Sampler

Cohesionless Density

0-10 Loose

10-30 Med. Dense

30-50 Dense

50+ Very Dense

Cohesive Consistency

0-4 Soft 30+ Hard

4-8 M/Stiff

8-15 Stiff

15-30 V-Stiff

SUMMARY:

Earth Boring 62'

Rock Coring 15'

Samples 13

HOLE NO. OW8-D



# GUILD DRILLING CO., INC.

100 WATER STREET

EAST PROVIDENCE, R. I.

SHEET 2 OF 2

DATE 11-8-58

HOLE NO. OWB-D

LINE & STA. \_\_\_\_\_

OFFSET \_\_\_\_\_

SURF. ELEV. \_\_\_\_\_

TO \_\_\_\_\_

ADDRESS \_\_\_\_\_

PROJECT NAME \_\_\_\_\_

LOCATION \_\_\_\_\_

REPORT SENT TO \_\_\_\_\_

PROJ. NO. \_\_\_\_\_

SAMPLES SENT TO \_\_\_\_\_

OUR JOB NO. 86-163

GROUND WATER OBSERVATIONS			CASING	SAMPLER	CORE BAR	Date	Time
At _____	after _____	Hours	Type _____	_____	_____	START _____	a.m.
At _____	after _____	Hours	Size: D _____	_____	_____	COMPLETE _____	p.m.
			Hammer Wt _____	_____	BIT _____	TOTAL HRS. _____	a.m.
			Hammer Fall _____	_____	_____	BORING FOREMAN _____	p.m.
						INSPECTOR _____	
						SOILS ENGR. _____	

## LOCATION OF BORING:

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler			Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc. Rock-color, type, condition, hardness, Drilling time, seams and etc.	SAMPLE		
				From 0-6	6-12	To 12-18				No	Pen	Rec
		39'-41'	D	16	14	13	W/m/d		Brown medium to coarse SAND	10	24	11"
						25			Fine SAND w/fine to medium gravel			
		44'-46'	D	16	17	23			Brown medium to coarse SAND	11	24	9"
						18			& fine Sand with coarse Gravel and silt			
						*						
		49'-51'	D	173	13	12/3"			Brown very dense medium to coarse SAND & coarse gravel cobbles, silt	12	24	8"
				*8	*7	*6						
		@ 54'	Refusal							0	0	0
		59'-61'	D	62	60	129			Pushed cobble	13	24	0
		62'-67'	C			173/4"						
								61'6"	Gray very badly fractured GABBRO DIORITE interbedded w/quartz & Gneiss	01	5	4'2"
		67'-72'	C						Note: 1. *Denotes 300# wt.			
									2. 9" Seam @ 64' & 8' Seam @			
									3. 50% water loss while coring after hitting seam			
		72'-77'	C						Installed 2" PVC O.W. @ 80'			
										C3	5	5'
								77'				
									Bottom of Boring 77'			

GROUND SURFACE TO \_\_\_\_\_

USED \_\_\_\_\_

"CASING: THEN \_\_\_\_\_

Sample Type

D=Dry C=Cored W=Washed

UP=Undisturbed Piston

TP=Test Pit A=Auger V=Vane Test

UT=Undisturbed Thinwall

Proportions Used

trace 0 to 10%

little 10 to 20%

some 20 to 35%

and 35 to 50%

140lb Wt. x 30" fall on 2" O.D. Sampler

Cohesionless Density

0-10 Loose

10-30 Med. Dense

30-50 Dense

50+ Very Dense

Cohesive Consistency

0-4 Soft 30+ Hard

4-8 M/Stiff

8-15 Stiff

15-30 V-Stiff

SUMMARY:

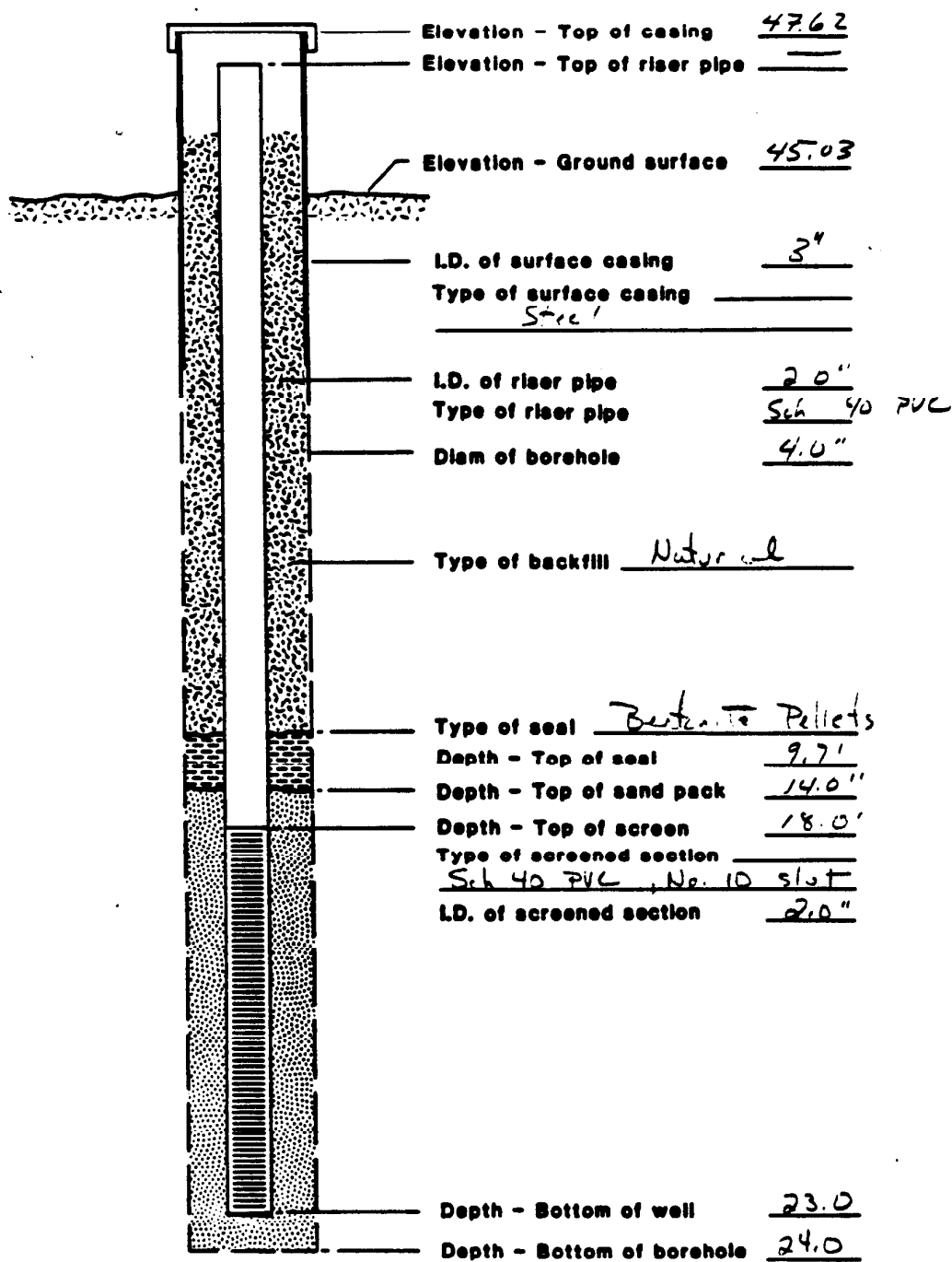
Earth Boring \_\_\_\_\_

Rock Coring \_\_\_\_\_

Sample \_\_\_\_\_

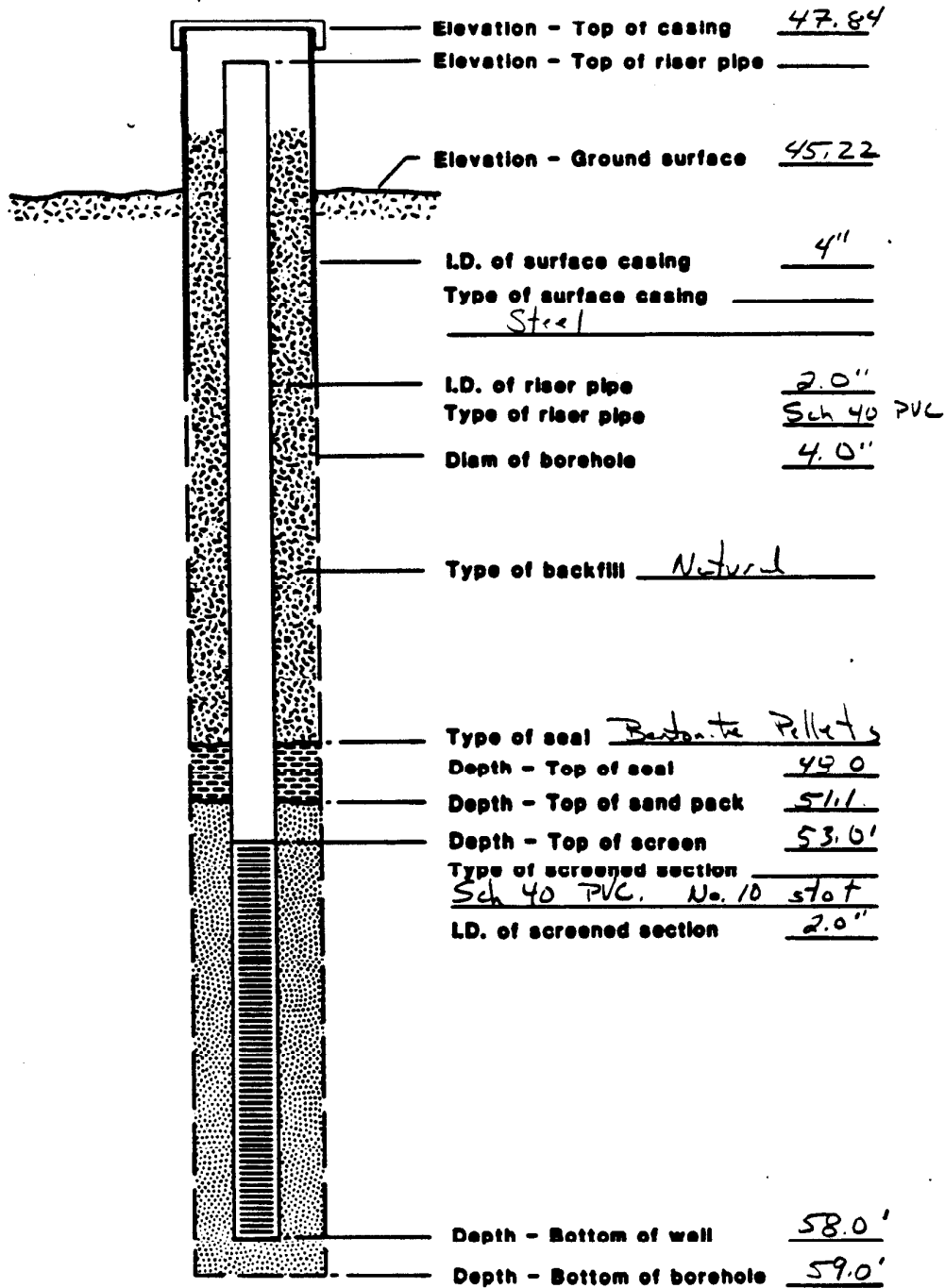
HOLE NO OWB-D

# INSTALLATION REPORT MONITORING WELL No. SW-8





# INSTALLATION REPORT MONITORING WELL No. CW-8

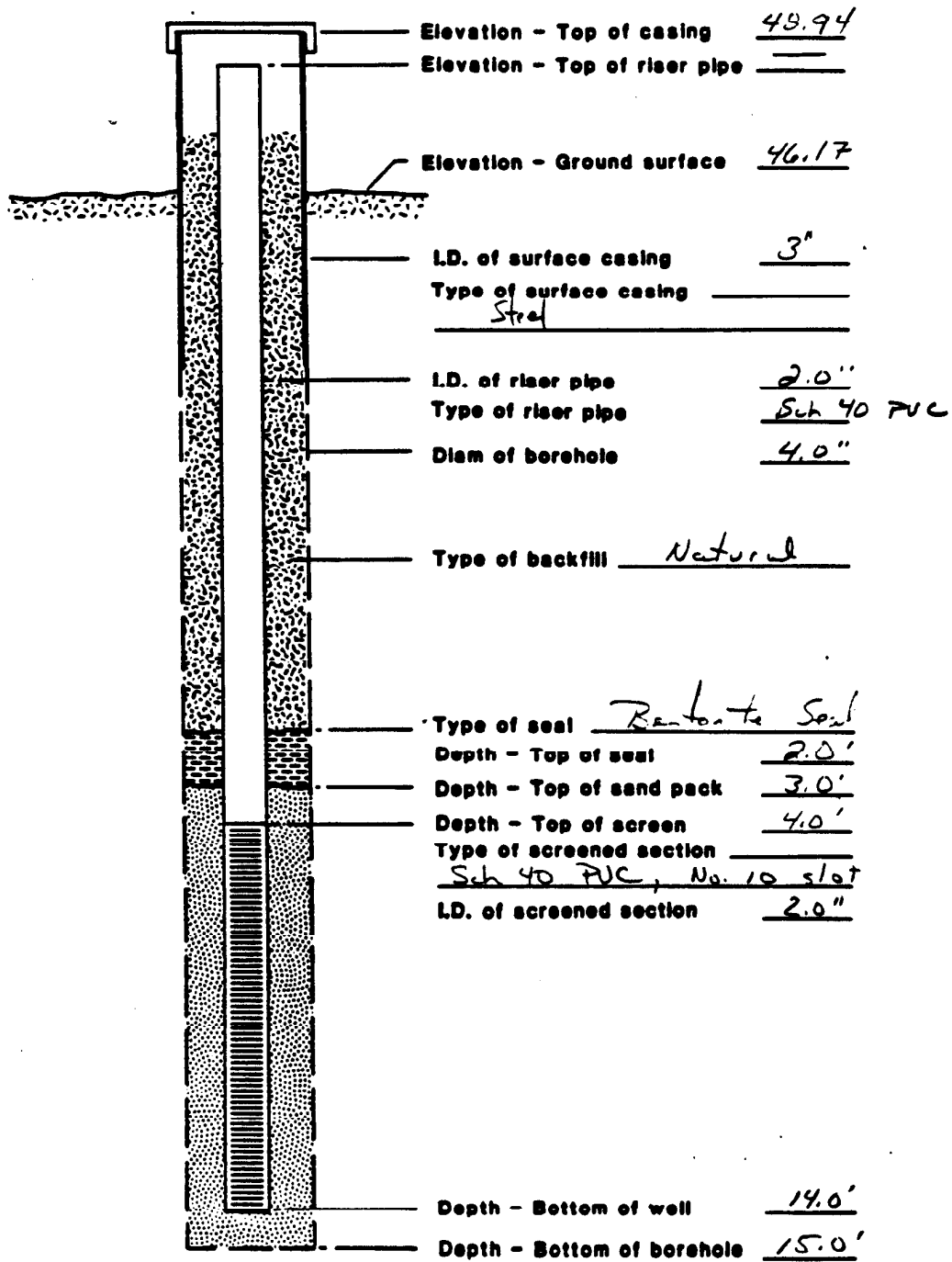






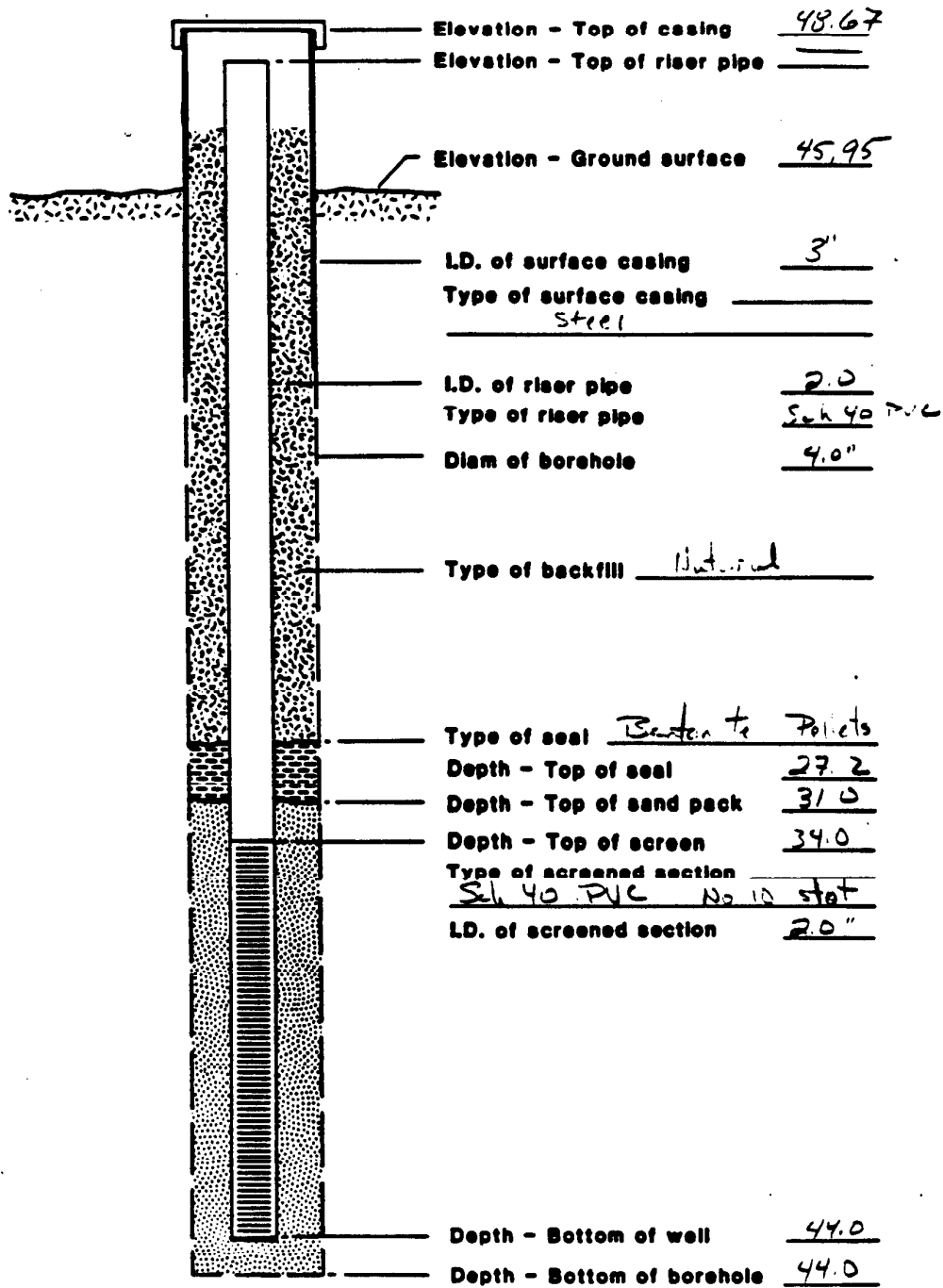
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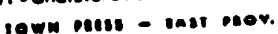
MONITORING WELL No. OW-9



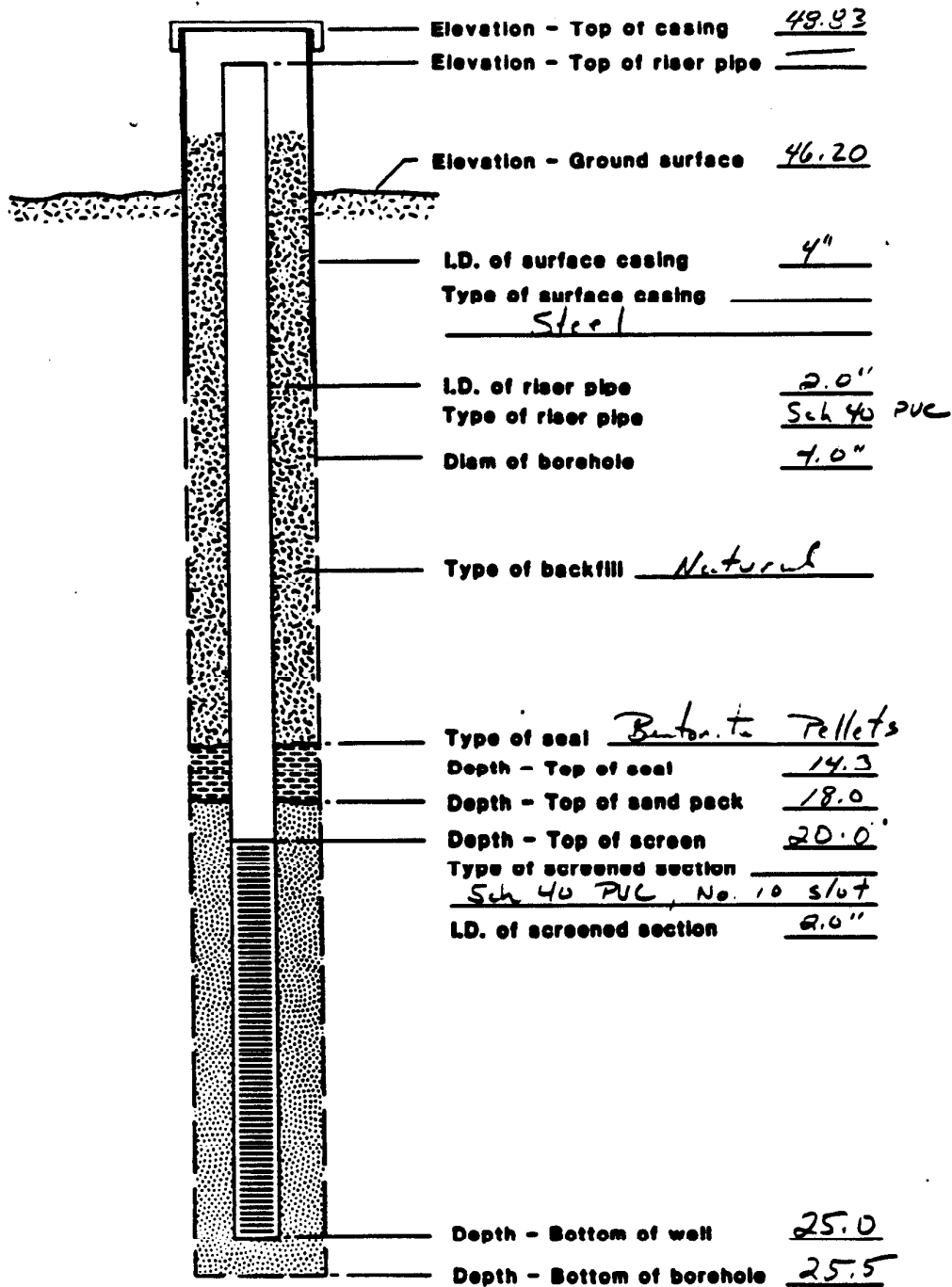


# INSTALLATION REPORT MONITORING WELL No. W-9





# INSTALLATION REPORT MONITORING WELL No. SW-9





# GUILD DRILLING CO., INC.

100 WATER STREET EAST PROVIDENCE, R. I.

SHEET 1 OF 1  
DATE 10-9-85  
HOLE NO. NO 9-M  
LINE & STA. \_\_\_\_\_  
OFFSET \_\_\_\_\_  
SURF. ELEV. \_\_\_\_\_

TO Weston Geophysical Corp. ADDRESS Westboro, Mass  
PROJECT NAME Economic Planning Group LOCATION Woburn, Mass  
REPORT SENT TO above PROJ. NO. \_\_\_\_\_  
SAMPLES SENT TO Taken at Site OUR JOB NO. 86-163

GROUND WATER OBSERVATIONS		CASING	SAMPLER	CORE BAR.	Date	Time
At <u>3'-7"</u>	after <u>COMP</u> Hours	Type <u>HW</u>			START <u>10/9/85</u>	<u>8</u> a.m.
		Size: D. <u>4"</u>			COMPLETE <u>10/9/85</u>	<u>8</u> p.m.
At _____	after _____ Hours	Hammer Wt. <u>300#</u>			TOTAL HRS. _____	<u>8</u> p.m.
		Hammer Fall <u>24"</u>		BIT	BORING FOREMAN <u>R. Eastwood</u>	
					INSPECTOR _____	
					SOILS ENGR. _____	

## LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler			Moisture Density or Consist.	Strata Change Elev.	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc. Rock-color, type, condition, hardness, Drilling time, seams and etc.	SAMPLE		
				From	To					No	Pen	Rec.
		No samples		0-6	6-12	12-18			General description of soil from wash - Brown very coarse SAND & gravel & cobbles & boulders Till			
								26'-0"	Bottom of Boring 26'-0"  28' Monitor well, 2" PVC			

GROUND SURFACE TO 26'

USED 4 "CASING: THEN installed well

Sample Type  
D=Dry C=Cored W=Washed  
UP=Undisturbed Piston  
TP=Test Pit A=Auger V=Vane Test  
UT=Undisturbed Thinwall

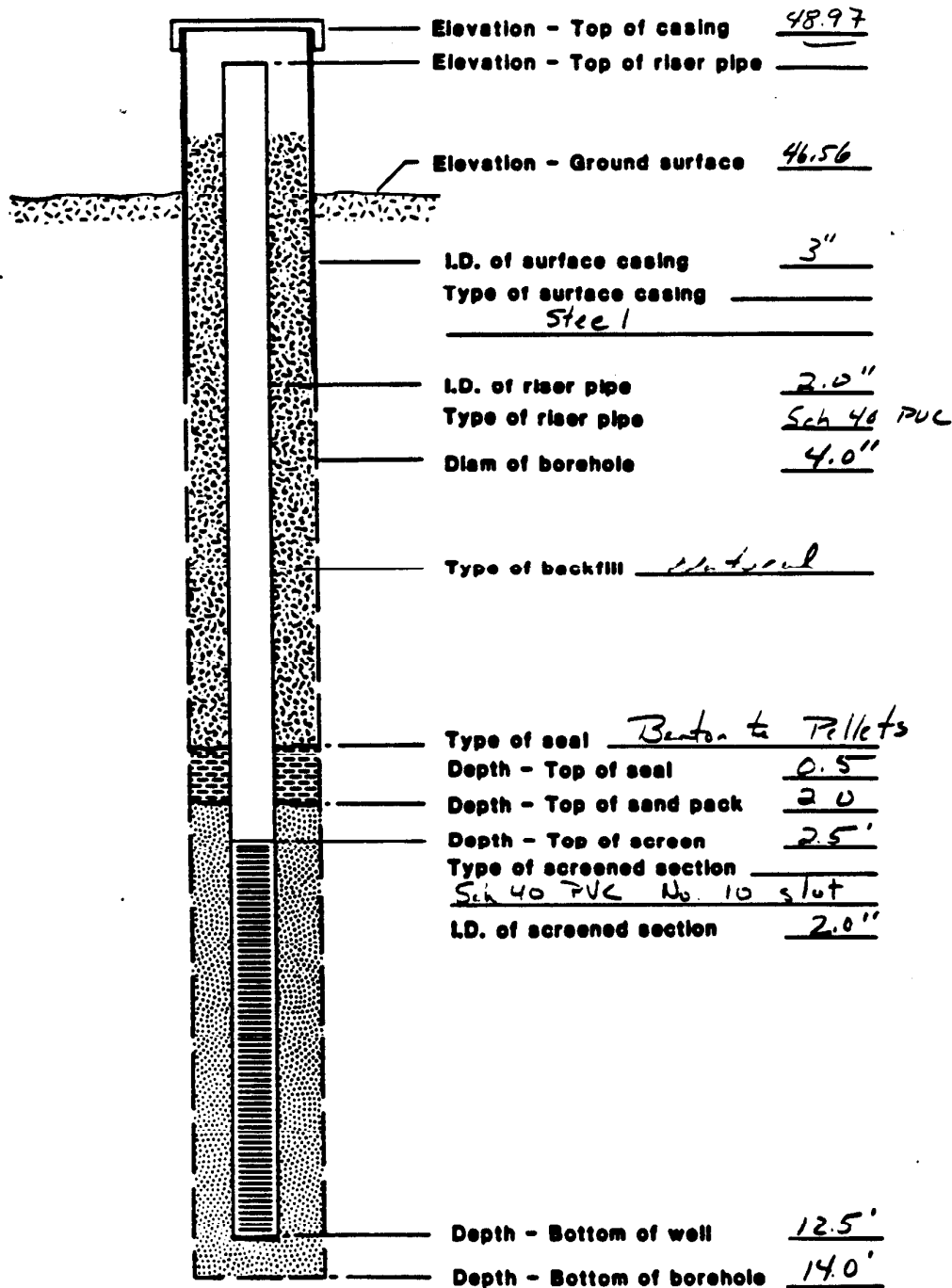
Proportions Used  
trace 0 to 10%  
little 10 to 20%  
some 20 to 35%  
and 35 to 50%

140 lb Wt. x 30" fall on 2" O.D. Sampler  
Cohesionless Density Cohesive Consistency  
0-10 Loose 0-4 Soft 30+ Hard  
10-30 Med. Dense 4-8 M/Stiff  
30-50 Dense 8-15 Stiff  
50+ Very Dense 15-30 V-Stiff

SUMMARY:  
Earth Boring 26'  
Rock Coring \_\_\_\_\_  
Samples \_\_\_\_\_

HOLE NO NO 9-M

# INSTALLATION REPORT MONITORING WELL No. OW-10

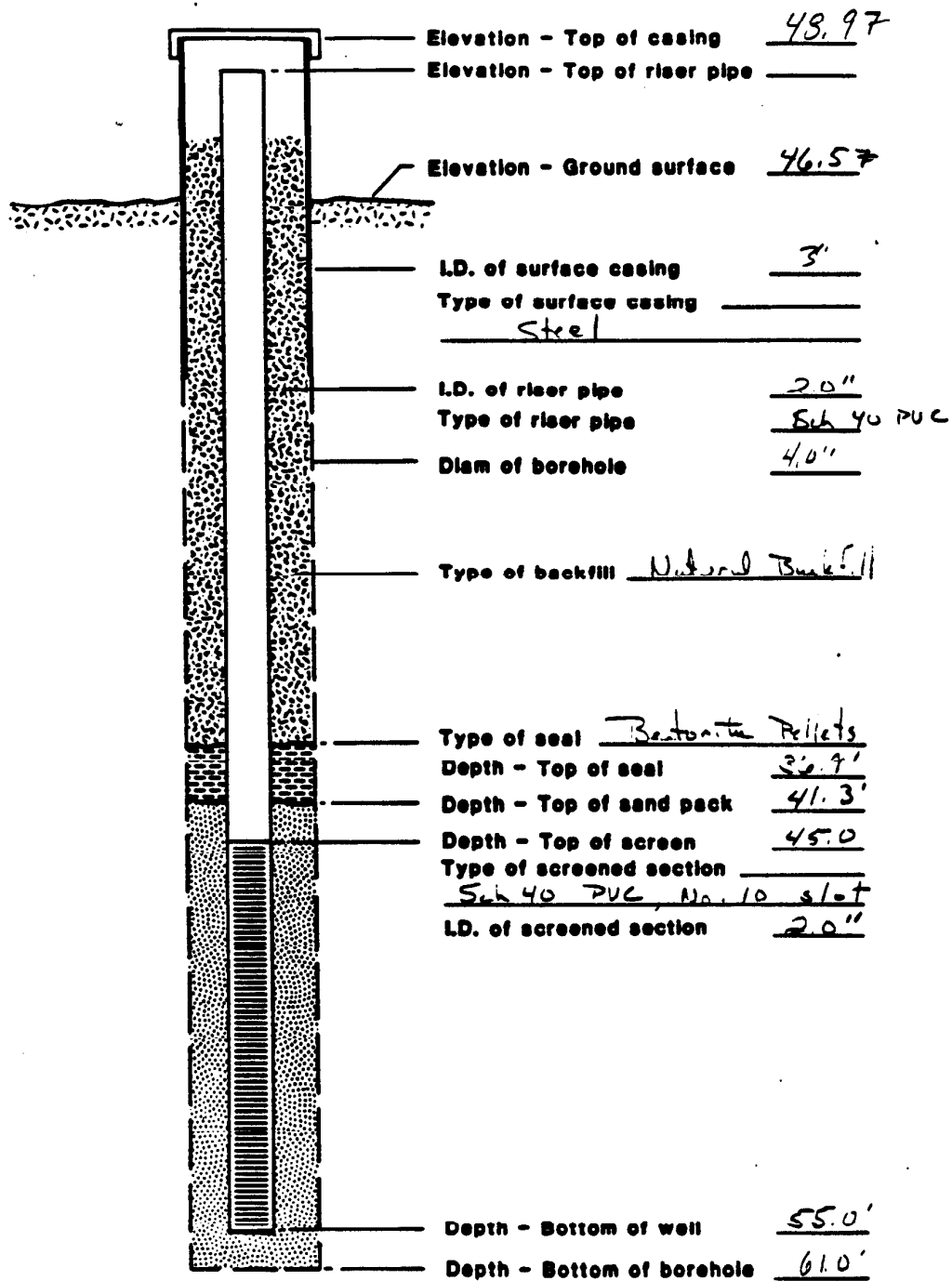






# INSTALLATION REPORT

MONITORING WELL No. W-10





# GUILD DRILLING

100 WATER STREET

EAST PROVIDENCE, R. I.

TO Weston Geophysical Corp.  
PROJECT NAME Economic Planning Group  
REPORT SENT TO above  
SAMPLES SENT TO Taken at Site

ADDRESS Westboro, Mass  
LOCATION Woburn, Mass  
PROJ. NO. 86-163  
OUR JOB NO. 86-163

HOLE NO. 65-10  
LINE & STA. OW10-0  
OFFSET   
SURF. ELEV.

## GROUND WATER OBSERVATIONS

At  after  Hours  
At  after  Hours

Type   
Size I D.   
Hammer Wt   
Hammer Fall

CASING HW NW S/S NV2  
SAMPLER 1 3/8" 140# BIT  
CORE BAR. 24" 30" Dia.

START 9/20/85 8 a.m.  
COMPLETE 9/24/85 8 a.m.  
TOTAL HRS.   
BORING FOREMAN R. Eastwood  
INSPECTOR   
SOILS ENGR.

Woods

## LOCATION OF BORING:

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler			Moisture Density or Consist.	Strata Change Elev.	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc. Rock-color, type, condition, hard- ness, Drilling time, seams and etc.	SAMPLE		
				From 0-6	6-12	To 12-18				No	Pen	Rec
		0'-2'	D	1	2	1	D/loose		Brown fine to medium SAND & some fine gravel	1	24'	16'
		2'-4'	D	2	3	4	W/loose	3'6"		2	24'	14'
		4'-6'	D	20	35	48	w/v/d		Brown SAND & coarse gravel, tr. of silt & cobbles	3	24'	11'
						47						
		9'-11'	D	24	30	24	w/m/d			4	24'	16'
						23						
		14'-16'	D	10	10	9	"			5	24'	10'
						9						
		19'-21'	D	18	12	11	"			6	24'	14'
						8						
		24'-26'	D	20	17	13	"			7	24'	13'
						6						
		29'-31'	D	17	13	12	w/m/d			8	24'	12'
		34'-36'	D	36	28	21	w/v/d	33'6"	Gray SAND & gravel & Silt & cobbles - Till	9	24'	15'
						34						
		37'2"							Refusal w/roller bit			
		37'2"-38'8"	C						37'2"-39'6"-Large Boulder			

GROUND SURFACE TO 41'

### Sample Type

D=Dry C=Cored W=Washed  
UP=Undisturbed Piston  
TP=Test Pit A=Auger V=Vane Test  
UT=Undisturbed Thinwall

### Proportions Used

trace 0 to 10%  
little 10 to 20%  
some 20 to 35%  
and 35 to 50%

### USED 3 & 4

"CASING: THEN Cored  
140 lb Wt. x 30" fall on 2" O.D. Sampler  
Cohesionless Density Cohesive Consistency  
0-10 Loose 0-4 Soft 30 + Hard  
10-30 Med. Dense 4-8 M/Stiff  
30-50 Dense 8-15 Stiff  
50 + Very Dense 15-30 V-Stiff

### SUMMARY:

Earth Boring 41'  
Rock Coring 20'  
Samples 9

HOLE NO. OW10-



# GUILD DRILLING CO., INC.

100 WATER STREET

EAST PROVIDENCE, R I

SHEET 2 OF 2

DATE \_\_\_\_\_

HOLE NO. OW10-D W-10

LINE &amp; STA. \_\_\_\_\_

OFFSET \_\_\_\_\_

SURF. ELEV. \_\_\_\_\_

TO \_\_\_\_\_

ADDRESS \_\_\_\_\_

PROJECT NAME \_\_\_\_\_

LOCATION \_\_\_\_\_

REPORT SENT TO \_\_\_\_\_

PROJ. NO. \_\_\_\_\_

SAMPLES SENT TO \_\_\_\_\_

OUR JOB NO. 86-163

GROUND WATER OBSERVATIONS				CASING	SAMPLER	CORE BAR	Date	Time
At _____	after _____	Hours	Type _____	_____	_____	_____	START _____	a.m.
At _____	after _____	Hours	Size I.D. _____	_____	_____	_____	COMPLETE _____	p.m.
			Hammer Wt _____	_____	_____	BIT	TOTAL HRS. _____	a.m.
			Hammer Fall _____	_____	_____	_____	BORING FOREMAN _____	p.m.
				_____	_____	_____	INSPECTOR _____	
				_____	_____	_____	SOILS ENGR. _____	

## LOCATION OF BORING: \_\_\_\_\_

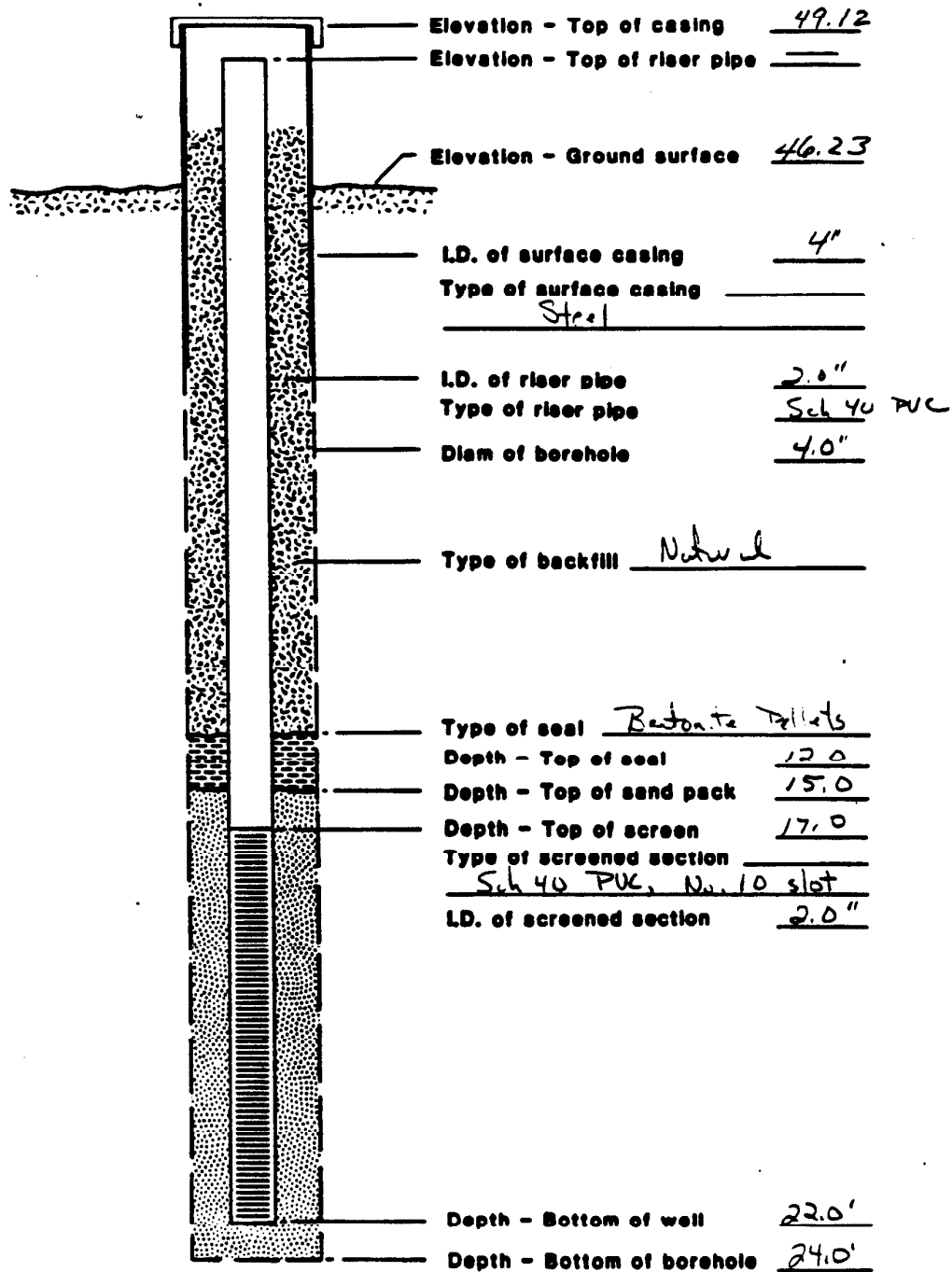
DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler			Moisture Density or Consist.	Strata Change Elev.	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc. Rock-color, type, condition, hardness, Drilling time, seams and etc.	SAMPLE		
				From 0-6	6-12	To 12-18				No	Pen	Rec.
							Min/ft	39' 6"	BEDROCK			
		41'-46'	C				4		Gabbro DIORITE, interbedded w/Gneiss, Quarts & Granite, very massive	C1	5'	4' 8"
							5					
							5 1/2					
							5					
		46'-51'	C				4 1/2			C2	5'	4' 9"
							5					
							5					
							5 1/2					
		51'-56'	C				5			C3	5'	4' 8"
							4 1/2					
							5 1/2					
							5 1/2					
		56'-61'	C				5			C4	5'	5'
							5 1/2					
							6					
							5'					
							5					
							5					
							5	61'				
									Bottom of Boring 61'			
									Note: 90% water loss while coring			
									Installed O.W. @ 58'			

GROUND SURFACE TO _____		USED _____	"CASING: THEN _____	SUMMARY:
Sample Type	Proportions Used	140 lb Wt. x 30" fall on 2" O.D. Sampler		Earth Boring _____
D=Dry C=Cored W=Washed	trace 0 to 10%	Cohesionless Density	Cohesive Consistency	Rock Coring _____
UP=Undisturbed Piston	little 10 to 20%	0-10 Loose	0-4 Soft 30 + Hard	Samples _____
TP=Test Pit A=Auger V=Vane Test	some 20 to 35%	10-30 Med. Dense	4-8 M/Stiff	
UT=Undisturbed Thinwall	and 35 to 50%	30-50 Dense	8-15 Stiff	
		50 + Very Dense	15-30 V-Stiff	

TOWN PRESS - EAST PROV.

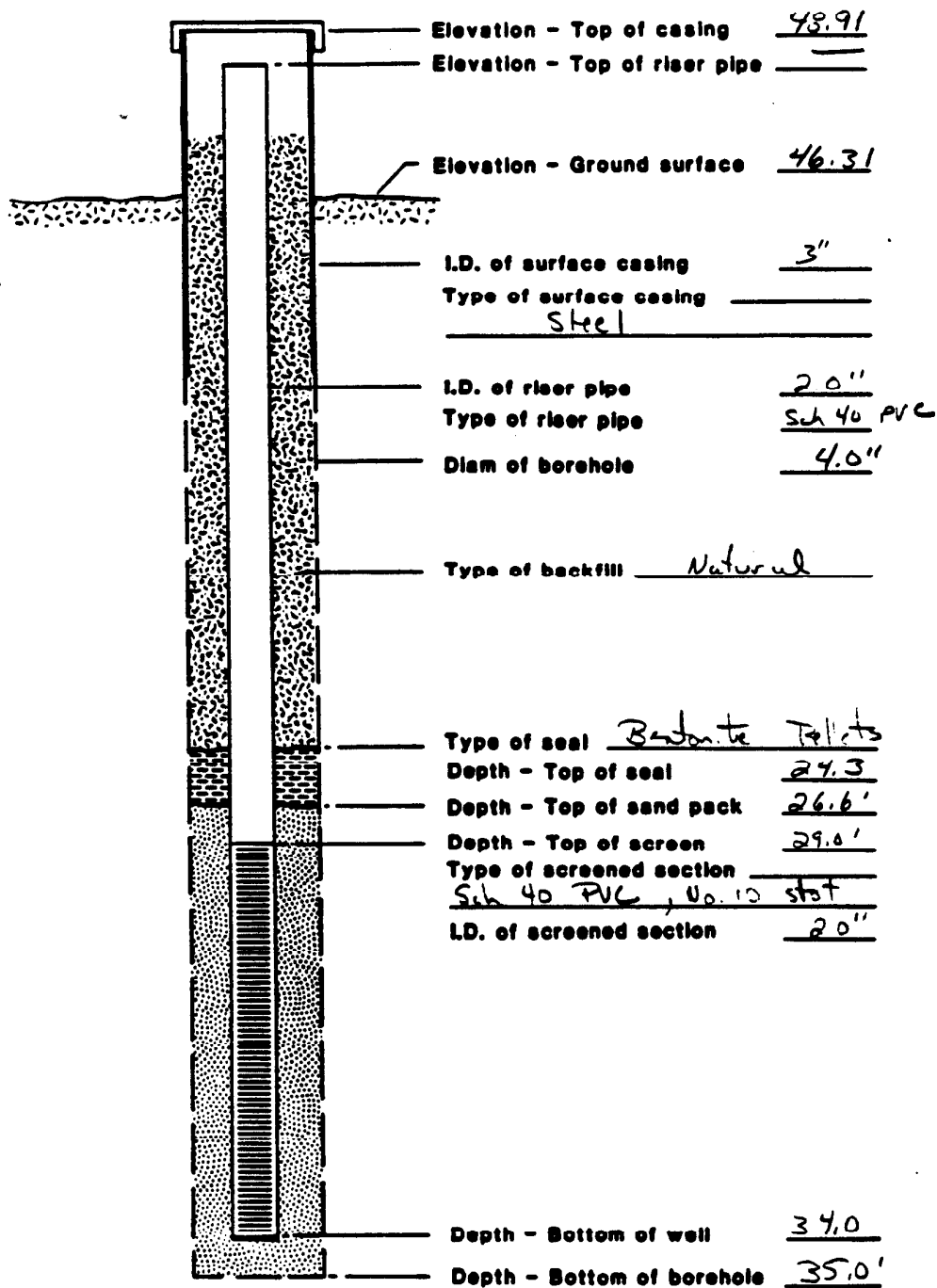
HOLE NO OW10-D

# INSTALLATION REPORT MONITORING WELL No. SW-10



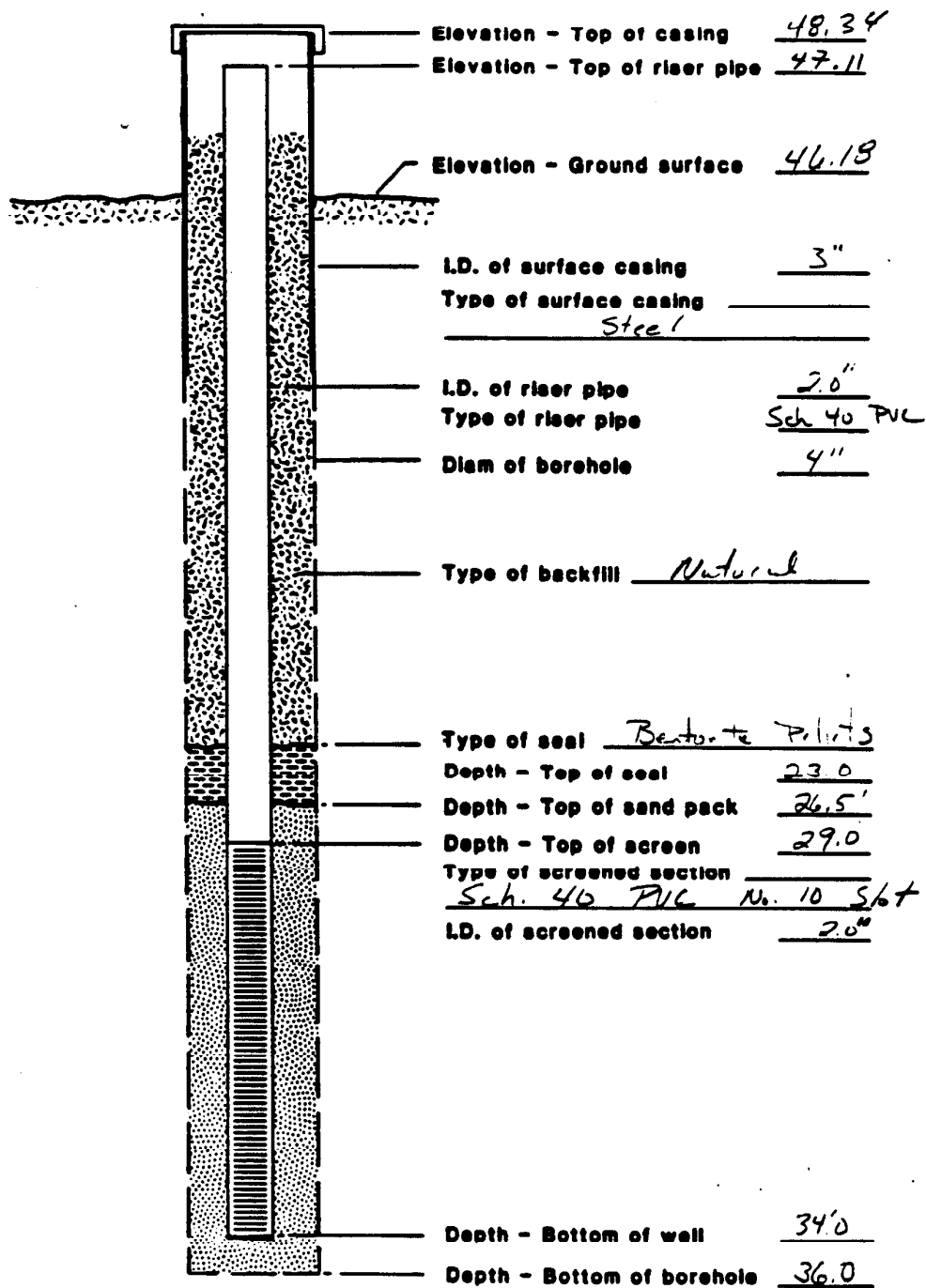


# INSTALLATION REPORT MONITORING WELL No. CW-10





# INSTALLATION REPORT MONITORING WELL No. W-11







# GUILD DRILLING CO., INC.

100 WATER STREET

EAST PROVIDENCE, R. I.

TO Weston Geophysical Corporation

ADDRESS Westboro, Mass.

PROJECT NAME Economic Planning Group

LOCATION Woburn, Mass.

REPORT SENT TO above

PROJ NO. 86-163

SAMPLES SENT TO Taken at Site

OUR JOB NO. 86-163

SHEET 1 of 1

DATE 8/27/85

MOLE NO. W-11

LINE & STA.

OFFSET

SURF. ELEV.

GROUND WATER OBSERVATIONS			CASING	SAMPLER	CORE BAR	Date	Time
At <u>4'5"</u>	after <u>12</u> Hours	Type <u>HW</u>	<u>4"</u>	<u>S/S</u>	<u></u>	START <u>8/27/85</u>	<u>8:00</u> a.m.
At <u></u>	after <u></u> Hours	Size: D <u>4"</u>	<u>1-3/8"</u>	<u></u>	<u></u>	COMPLETE <u>8/28/85</u>	<u>8:00</u> a.m.
		Hammer Wt <u>300#</u>	<u>140#</u>	<u></u>	<u></u>	TOTAL MRS. <u></u>	<u></u>
		Hammer Fall <u>24"</u>	<u>30"</u>	<u>BIT</u>	<u></u>	BORING FOREMAN <u>R. Eastwood</u>	<u></u>
						INSPECTOR <u></u>	<u></u>
						SOILS ENGR. <u></u>	<u></u>

## LOCATION OF BORING Woods

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler			Moisture Density or Consist	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc. Rock-color, type, condition, hardness, Drilling time, seams and etc.	SAMPLE		
				From 0-6	6-12	12-18				No	Pen	Rec
		0'-2'	D	16	13	10	Dry/m	2'	Brown M-C SAND & F. Sand	1	24"	6"
						4	dense		F-M & coarse Gravel	2	24"	18"
		2'-4'	D	7	16	20	Moist		same as above	3	24"	10"
						38	dense		some silt			
		4'-6'	D	32	15	62	Wet/v	7'6"				
						58	dense					
		9'-11'	D	24	23	34	"	10'6"	Brown fine Silty SAND	4	24"	17"
						33						
		14'-16'	D	31	21	21	Wet		Brown fine to medium SAND	5	24"	12"
						16	dense		same as above			
								19'				
		19'-21'	D	24	21	22	"	22'6"	Brown silty fine SAND, trace of fine gravel	6	24"	13"
						19						
		24'-26'	D	25	27	18	"		Brown medium to coarse	7	24"	12"
						14			SAND & fine Sand & fine			
									to medium Gravel & coarse			
									Gravel & Silt			
		29'-31'	D	6	8	12	Wet		same as above	8	24"	8"
						14	medium					
							dense					
		34'-36'	D	9	9	8	"	36'		9	24"	5"
						7						
									Bottom of Boring 36'			
									Installed 35' Monitor Well			
									2" PVC Sch. 40			

GROUND SURFACE TO 34'

USED HW "CASING: THEN S/S TO 36'

### Sample Type

D: Dry C: Cored W: Washed

UP: Undisturbed Piston

TP: Test Pit A: Auger V: Vane Test

UT: Undisturbed Thinwall

### Proportions Used

trace 0 to 10%

little 10 to 20%

some 20 to 35%

and 35 to 50%

140lb Wt. x 30" fall on 2" O.D. Sampler

Cohesionless Density

0-10 Loose

10-30 Med. Dense

30-50 Dense

50+ Very Dense

Cohesive Consistency

0-4 Soft

4-8 M/Stiff

8-15 Stiff

15-30 V-Stiff

### SUMMARY

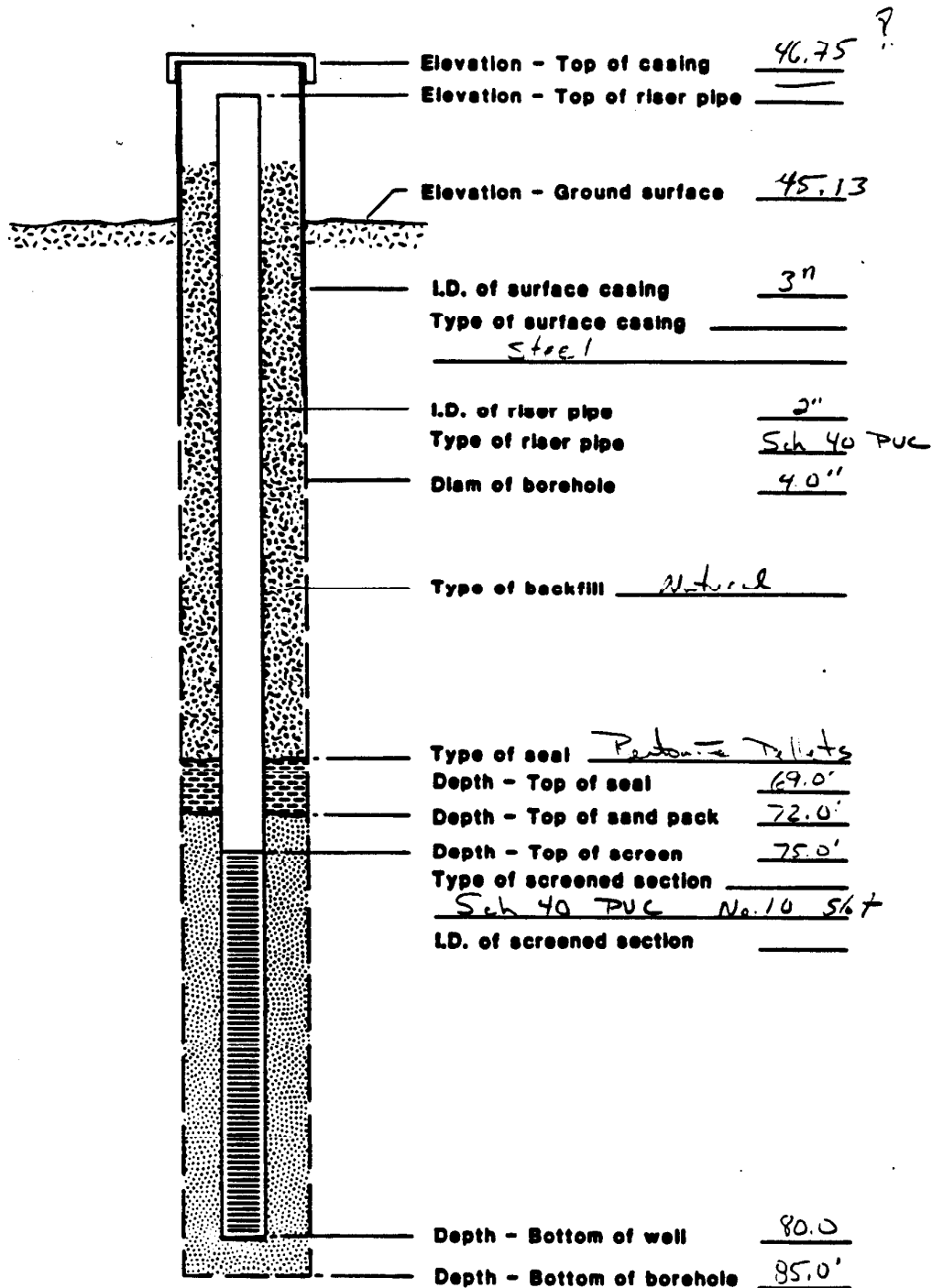
Earth Boring 36'

Rock Coring 9

Samples 9

HOLE NO W-11

# INSTALLATION REPORT MONITORING WELL No. W-12





# GUILD DRILLING CO., INC.

100 WATER STREET EAST PROVIDENCE, R. I.

TO Weston Geophysical Corp. ADDRESS Westboro, Mass  
PROJECT NAME Economic Planning Group LOCATION Woburn, Mass  
REPORT SENT TO above PROJ. NO. \_\_\_\_\_  
SAMPLES SENT TO Taken at Site OUR JOB NO. 86-163

SHEET 1 OF 3  
DATE \_\_\_\_\_  
HOLE NO. W-12  
LINE & STA. \_\_\_\_\_  
OFFSET \_\_\_\_\_  
SURF. ELEV. \_\_\_\_\_

GROUND WATER OBSERVATIONS			CASING	SAMPLER	CORE BAR	Date	Time
At <u>2'1"</u>	after <u>Comp.</u> Hours	Type	HW NW	S/S	None	START	<u>9/17/85</u> <u>8</u> a.m.
At _____	after _____ Hours	Size I.D.	<u>4" 3"</u>	<u>1 3/8"</u>		COMPLETE	<u>9/18/85</u> <u>8</u> a.m.
		Hammer Wt.	<u>300#</u>	<u>140#</u>	BIT	TOTAL HRS.	
		Hammer Fall	<u>24"</u>	<u>30"</u>		BORING FOREMAN	<u>R. Eastwood</u>
						INSPECTOR	
						SOILS ENGR.	

## LOCATION OF BORING: Woods

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler			Moisture Density or Consist.	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc. Rock-color, type, condition, hardness, Drilling time, seams and etc.	SAMPLE		
				From 0-6	To 6-12	To 12-18				No	Pen	Rec
		0'-2'	D	1	2	1	W/loose		Gray fine to medium SAND, tr. of silt & tr. medium gravel	1	24'18"	
		2'-4'	D	1	2	1	"			2	24'11"	
		4'-6'	D	7	13	18	W/m/d			3	24'10"	
						14						
		9'-11'	D	7	7	7	W/loose			4	24'14"	
						7						
		14'-16'	D	3	3	4	"			5	24'12"	
						4						
		19'-21'	D	2	2	2	"			6	24'18"	
						3						
		24'-26'	D	2	3	7	"			7	24'13"	
						6						
		29'-31'	D	3	4	7	"			8	24'20"	
						7						
		34'-36'	D	7	3	2	"	33'6"	Brown fine to medium SAND, (silty)	9	24'24"	
						2		37'	Brown fine to medium SAND, tr. of silt			

GROUND SURFACE TO 81'

USED 3 & 4 "CASING: THEN Roller bit to bottom

### Sample Type

D=Dry C=Cored W=Washed  
UP=Undisturbed Piston  
TP=Test Pit A=Auger V=Vane Test  
UT=Undisturbed Thinwall

### Proportions Used

trace 0 to 10%  
little 10 to 20%  
some 20 to 35%  
and 35 to 50%

### 140 lb Wt. x 30" fall on 2" O.D. Sampler

Cohesionless Density  
0-10 Loose  
10-30 Med. Dense  
30-50 Dense  
50+ Very Dense

### Cohesive Consistency

0-4 Soft 30+ Hard  
4-8 M/Stiff  
8-15 Stiff  
15-30 V-Stiff

### SUMMARY:

Earth Boring 85'  
Rock Coring  
Samples 18

HOLE NO. W-12



# GUILD DRILLING CO., INC.

100 WATER STREET

EAST PROVIDENCE, R. I.

SHEET 2 OF 3

DATE \_\_\_\_\_

HOLE NO. W-12

LINE & STA. \_\_\_\_\_

OFFSET \_\_\_\_\_

SURF. ELEV. \_\_\_\_\_

TO \_\_\_\_\_

ADDRESS \_\_\_\_\_

PROJECT NAME \_\_\_\_\_

LOCATION \_\_\_\_\_

REPORT SENT TO \_\_\_\_\_

PROJ. NO. \_\_\_\_\_

SAMPLES SENT TO \_\_\_\_\_

OUR JOB NO. 86-163

GROUND WATER OBSERVATIONS			CASING	SAMPLER	CORE BAR	Date	Time
At _____	after _____	Hours	Type _____	_____	_____	START _____	_____
At _____	after _____	Hours	Size I.D. _____	_____	_____	COMPLETE _____	_____
			Hammer Wt _____	_____	_____	TOTAL HRS. _____	_____
			Hammer Fall _____	_____	_____	BORING FOREMAN _____	_____
				_____	_____	INSPECTOR _____	_____
				_____	_____	SOILS ENGR. _____	_____

## LOCATION OF BORING:

DEPTH	Casing Blows per foot	Sample - Depths From - To	Type of Sample	Blows per 6" on Sampler			Moisture Density or Consist	Strata Change Elev.	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc. Rock-color, type, condition, hardness, Drilling time, seams and etc.	SAMPLE		
				From 0-6	To 6-12	To 12-18				No	Pen	Rec.
		39'-41'	D	8	9	13				10	24	24'
						15						
		44'-45'	D	8	9	18			W/loose Note: Running sand 4'8" inside pipe	11	24	24'
									Brown fine to medium SAND w/some fine gravel			
		49'-51'	D	4	10	16			Running sand	12	24	24"
		54'-56'	D	7	11	14				13	24	16"
						10						
								58'6"				
		59'-61'	D	16	14	9			Very coarse Brown SAND & fine sand & coarse gravel, tr. silt & cobbles	14	24	6"
						10						
		64'-66'	D	40	22	26				15	24	8"
						48						
		69'-71'	D	19	14	23				16	24	11"
						27						
		74'-76'	D	19	14	23				17	24	4"
						27						

GROUND SURFACE TO \_\_\_\_\_

USED \_\_\_\_\_ "CASING: THEN \_\_\_\_\_

### Sample Type

D=Dry C=Cored W=Washed

UP=Undisturbed Piston

TP=Test Pit A=Auger V=Vane Test

UT=Undisturbed Thinwall

### Proportions Used

trace 0 to 10%

little 10 to 20%

some 20 to 35%

and 35 to 50%

### 140lb Wt. x 30" fall on 2" O.D. Sampler

Cohesionless Density

0-10 Loose

10-30 Med. Dense

30-50 Dense

50+ Very Dense

Cohesive Consistency

0-4 Soft 30+ Hard

4-8 M/Stiff

8-15 Stiff

15-30 V-Stiff

### SUMMARY:

Earth Boring \_\_\_\_\_

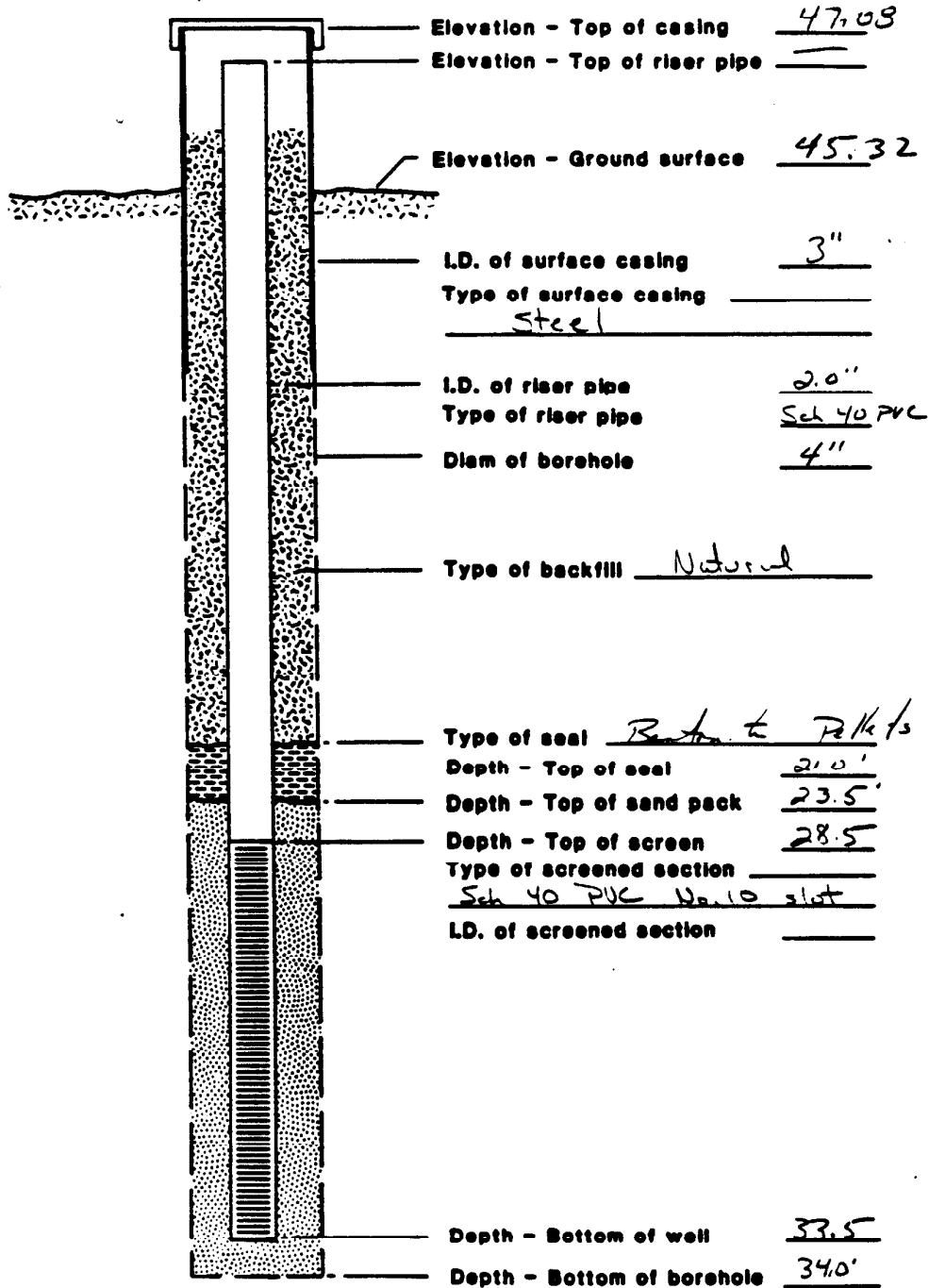
Rock Coring \_\_\_\_\_

Samples \_\_\_\_\_

HOLE NO W-12

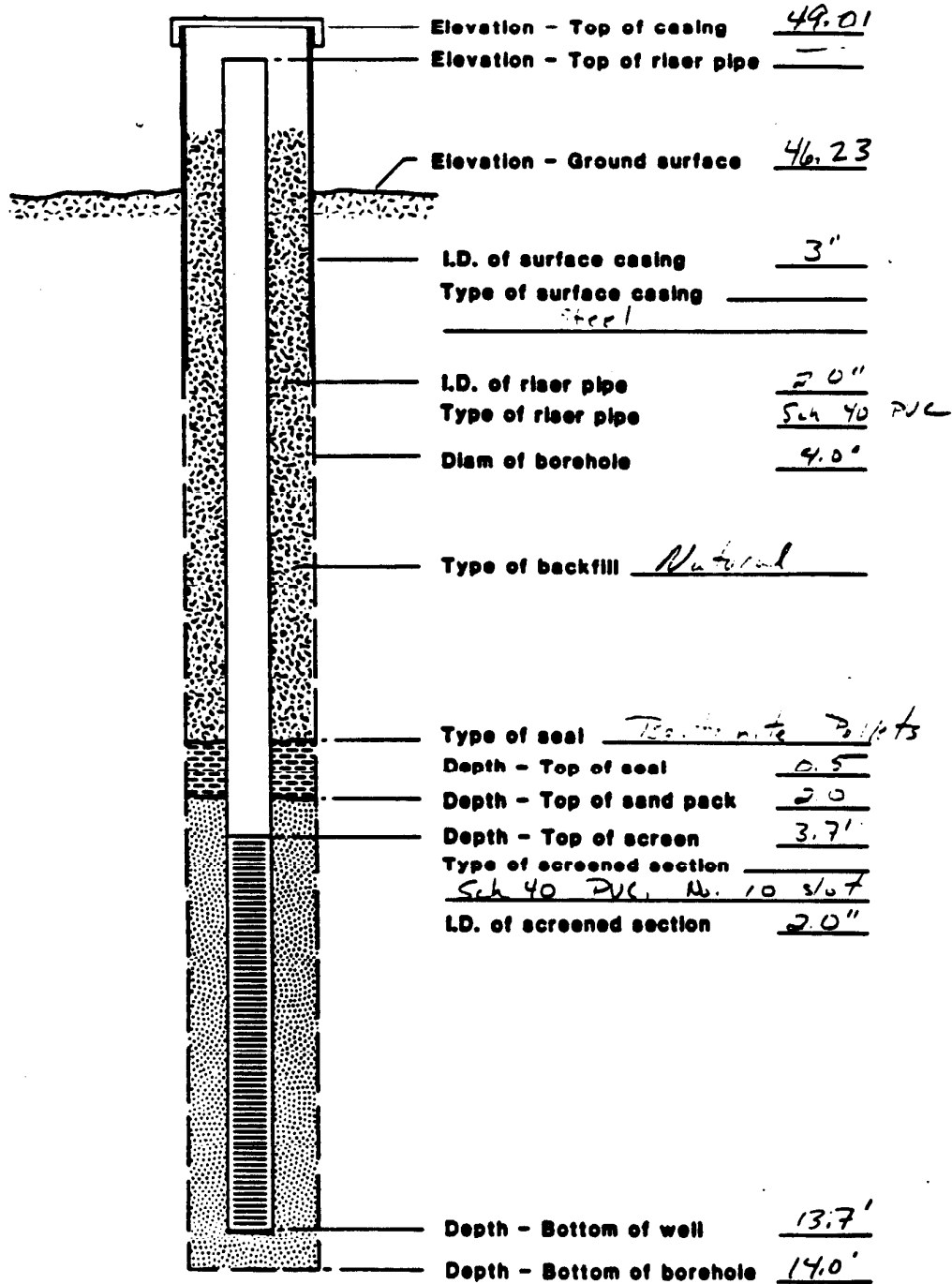


# INSTALLATION REPORT MONITORING WELL No. SW-12



HOLE NO. SW-12

# INSTALLATION REPORT MONITORING WELL No. OW-13





DATE \_\_\_\_\_

HOLE NO. OW-13

LINE &amp; STA. \_\_\_\_\_

OFFSET \_\_\_\_\_

SURF. ELEV. \_\_\_\_\_

TO Weston Geophysical Corp.

ADDRESS Westboro, Mass

PROJECT NAME Economic Planning Group

LOCATION Woburn, Mass

REPORT SENT TO above

**PROJ. NO.**

SAMPLES SENT TO Taken at Site

OUR JOB NO. 86-163

GROUND WATER OBSERVATIONS		CASING	SAMPLER	CORE BAR.	Date	Time
At <u>2'-9"</u>	after <u>COMP</u> Hours	Type <u>HW</u>	_____	_____	START <u>10/19/85</u>	_____ a.m.
		Size I.D. <u>4"</u>	_____	_____	COMPLETE <u>10/19/85</u>	_____ p.m.
		Hammer Wt. <u>300#</u>	_____	_____	TOTAL HRS. _____	_____ p.m.
At _____	after _____ Hours	Hammer Fall <u>24"</u>	_____	_____	BORING FOREMAN <u>R. Eastwood</u>	
			_____	BIT	INSPECTOR _____	
			_____		SOILS ENGR. _____	

### LOCATION OF BORING

[illegible]

GROUND SURFACE TO 14'

USED 4 "CASING: THEN installed well

### Sample Type

D=Dry C=Cored W=Washed

UP = Undisturbed Piston

TP=Test Pit A=Auger V=Vone Test

UT=Undisturbed Thinwall

### Proportions Used

trace 0 to 10%

	1970	1980	%
White	19	19	20%
Black	16	16	16%
Hispanic	15	15	15%
Other	14	14	14%

some 201035%

and 35 to 50%.

140lb Wt. x 30" fall on 2" O.D. Sampler

### Cohesionless Density

**0-10      Loose**

10-30 Med. Dense

50-50 Dense  
50+ Very Dense

### Cohesive Consistency

**0-4 Soft**

4-B M/Stiff

8-15 Still  
15-30 V-Still

### SUMMARY:

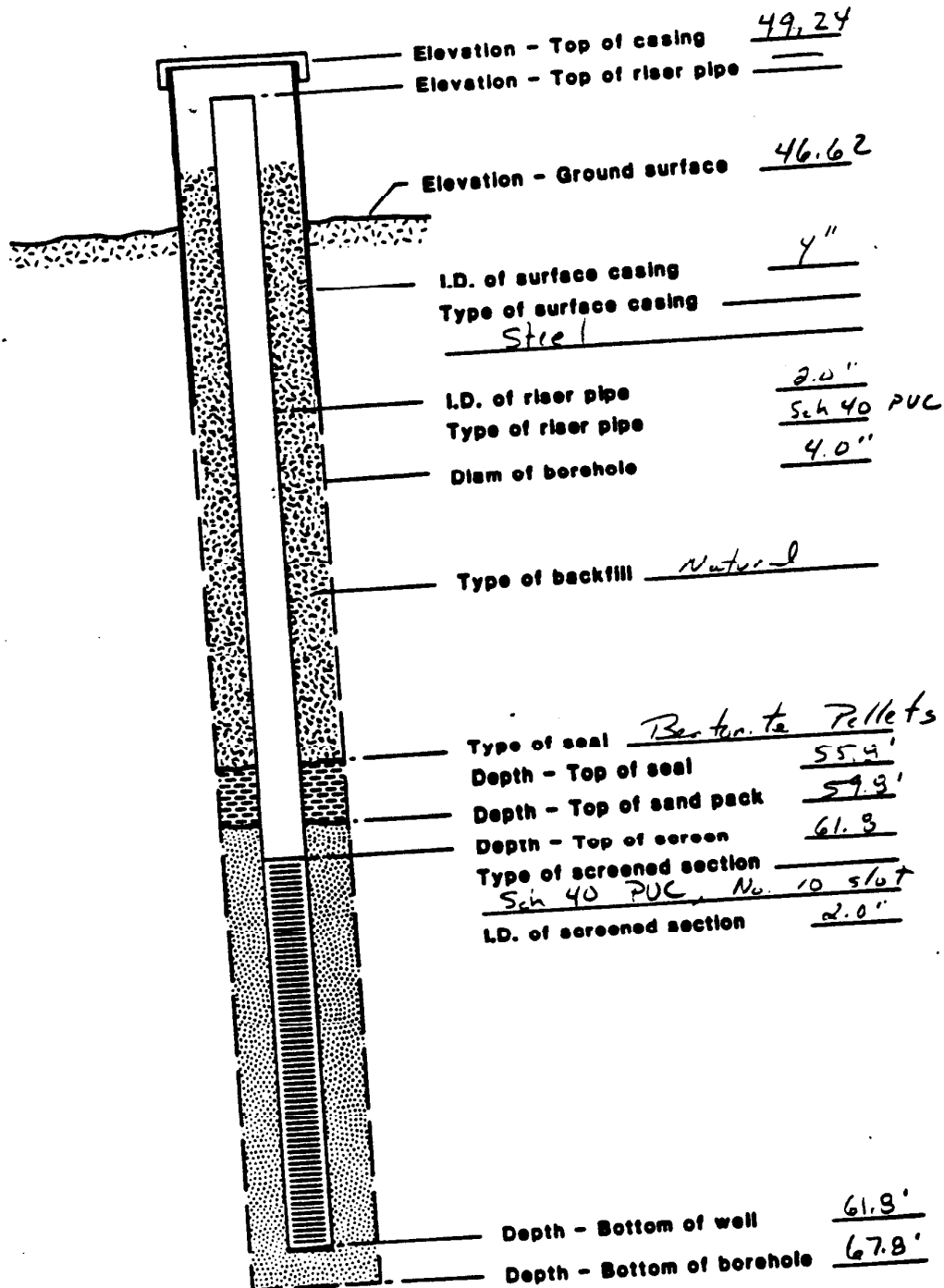
Earth Boring 14

Rock Coring \_\_\_\_\_

**Samples** \_\_\_\_\_

HOLE NO OW-13S

# INSTALLATION REPORT MONITORING WELL No. W-13





# GUILD DRILLING CO., INC.

100 WATER STREET EAST PROVIDENCE, R. I.

TO Weston Geophysical Corp. ADDRESS Westboro, Mass  
PROJECT NAME Economic Planning Group LOCATION Woburn, Mass  
REPORT SENT TO above PROJ. NO.                       
SAMPLES SENT TO Taken at Site OUR JOB NO. 86-163

SHEET 1 of 2  
DATE 10-13-85  
HOLE NO. OW-13-D  
LINE & STA.                       
OFFSET                       
SURF. ELEV.                     

GROUND WATER OBSERVATIONS		CASING	SAMPLER	CORE BAR	Date	Time
At <u>3'-9"</u>	after <u>COND</u> Hours	Type <u>HW NW</u>	<u>S/S</u>	<u>NV-II</u>	START <u>10/10/85</u>	<u>                    </u> a.m.
At <u>                    </u>	after <u>                    </u> Hours	Size: D <u>4" 3"</u>	<u>1-3/8"</u>	<u>2-1/8"</u>	COMPLETE <u>10/14/85</u>	<u>                    </u> a.m.
		Hammer Wt <u>300#</u>	<u>140#</u>	BIT <u>                    </u>	TOTAL HRS. <u>                    </u>	
		Hammer Fall <u>24"</u>	<u>30"</u>	Diamond <u>                    </u>	BORING FOREMAN <u>R. Eastwood</u>	
					INSPECTOR <u>                    </u>	
					SOILS ENGR. <u>                    </u>	

## LOCATION OF BORING:

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler			Moisture Density or Consist.	Strata Change Elev.	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc. Rock-color, type, condition, hardness, Drilling time, seams and etc.	SAMPLE		
				From	To					No	Pen	Rec
				0-6	6-12	12-18						
Drove		0'-2'	D	3	3	4			Brown medium to fine SAND, Trace silt	1	24"	24"
HW 4" casing		2'-4'	D	4	4	6		4'-0"		2	24"	15"
Spun NW 5" casing		4'-6'	D	9	12	6			Gray fine SAND, trace silt & fine gravel	3	24"	10"
				8				8'-6"				
		9'-11'	D	48	51	49			Gray very coarse SAND & gravel	4	24"	13"
				47								
		14'-16'	D	40	17	25				5	24"	14"
				24								
		19'-21'	D	16	17	16				6	24"	8"
				18								
		24'-26'	D	32	13	13				7	24"	8"
				11								
		29'-31'	D	12	12	18				8	24"	2"
				26								
		34'-36'	D	59	51	12				9	24"	10"
				13								
		39'	Refusal					39'-0"	Refusal w/ roller bit BOULDERS	10	0"	0"

GROUND SURFACE TO 57'6"

USED 4 & 3 "CASING: THEN C to 67'-6"

Sample Type  
D=Dry C=Cored W=Washed  
UP=Undisturbed Piston  
TP=Test Pit A=Auger V=Vane Test  
UT=Undisturbed Thinwall

Proportions Used  
trace 0 to 10%  
little 10 to 20%  
some 20 to 35%  
and 35 to 50%

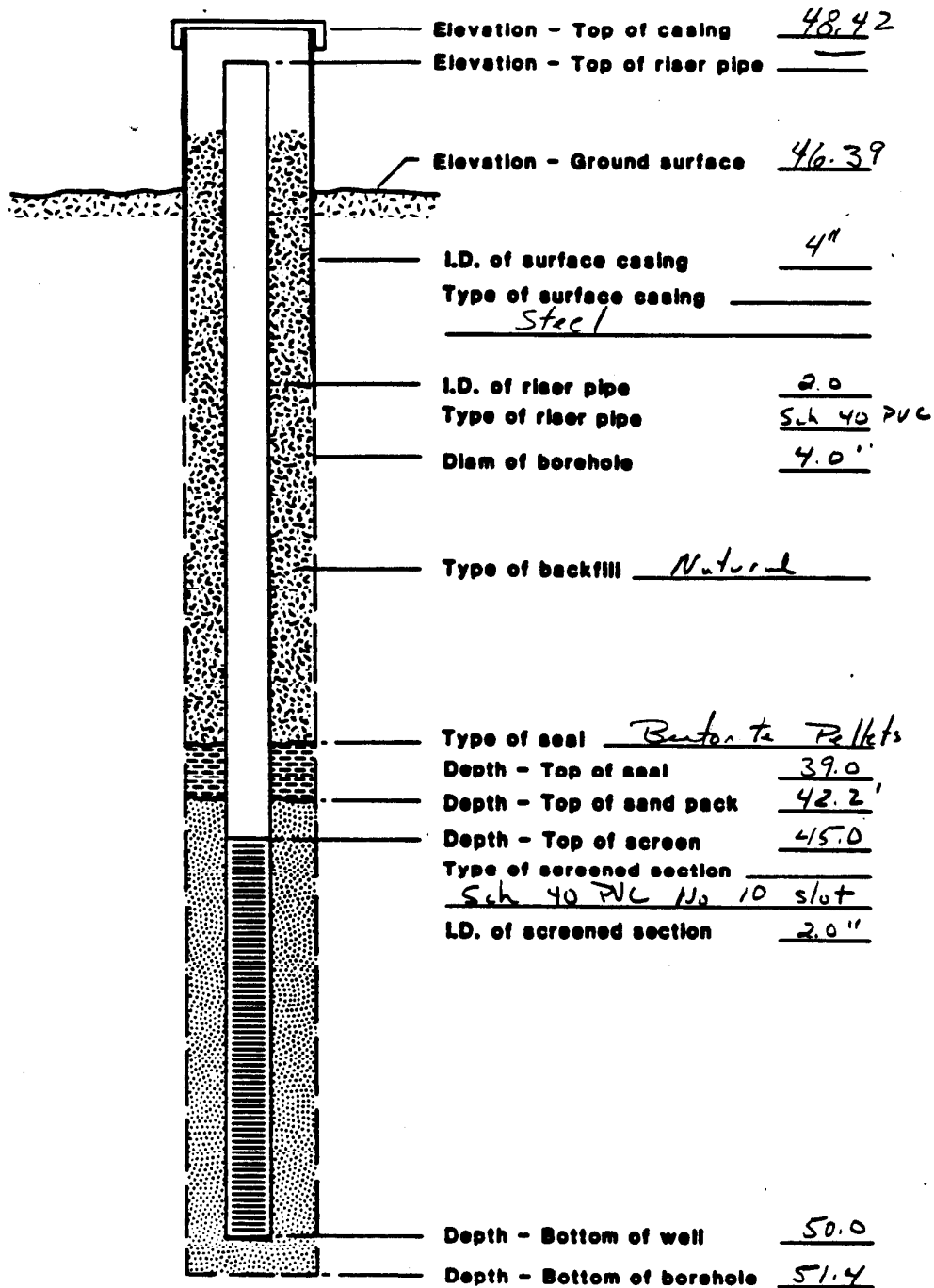
140lb Wt. x 30" fall on 2" O.D. Sampler  
Cohesionless Density Cohesive Consistency  
0-10 Loose 0-4 Soft 30 + Hard  
10-30 Med. Dense 4-8 M/Stiff  
30-50 Dense 8-15 Stiff  
50 + Very Dense 15-30 V-Stiff

SUMMARY:  
Earth Boring 57'6"  
Rock Coring 10'  
Samples 12

HOLE NO OW-13-D



**INSTALLATION REPORT**  
**MONITORING WELL No. CW-13**



**GUILD DRILLING CO., INC.**

100 WATER STREET EAST PROVIDENCE, R. I.

TO Weston Geophysical Corp... ADDRESS Westboro, Mass  
PROJECT NAME Economic Planning Group LOCATION Woburn, Mass  
REPORT SENT TO above PROJ. NO. \_\_\_\_\_  
SAMPLES SENT TO Taken at Site OUR JOB NO. 86-163

DATE 4-73 HOLE NO. OW 128  
LINE & STA. \_\_\_\_\_  
OFFSET \_\_\_\_\_  
SURF. ELEV. \_\_\_\_\_

GROUND WATER OBSERVATIONS		CASING	SAMPLER	CORE BAR.	Date	Time
At <u>3'-4"</u>	after <u>COMP</u> Hours	Type <u>HW</u>	_____	_____	START <u>10/16/85</u>	_____ a.m.
		Size I.D. <u>4"</u>	_____	_____	COMPLETE <u>10/17/85</u>	_____ p.m.
At _____	after _____ Hours	Hammer Wt <u>300#</u>	_____	_____	TOTAL HRS. _____	_____ p.m.
		Hammer Fall <u>24"</u>	_____	BIT _____	BORING FOREMAN <u>R. Eastwood</u>	
					INSPECTOR _____	
					SOILS ENGR. _____	

### LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To ~	Type of Sample	Blows per 6" on Sampler			Moisture Density or Consist.	Strata Change Elev.	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc. Rock - color, type, condition, hardness, Drilling time, seams and etc.	SAMPLE		
				From 0-6	6-12	To 12-18				No	Pen	Rec
		No samples							General description of soil from wash			
									Brown medium coarse SAND & gravel, some silt & cobbles			
								30'-6"	Boulder layer			
									Gray fine to medium SAND & silt, cobbles, boulders & till			
								50'-0"				
									Bottom of Boring 50'-0"			
									53' Monitor Well - 2" PVC			

GROUND SURFACE TO 50'

USED 4 "CASING: THEN installed well

**Sample Type**  
D=Dry C=Cored W=Washed  
UP=Undisturbed Piston  
TP=Test Pit A=Auger V=Vane Test  
UT=Undisturbed Thinwall

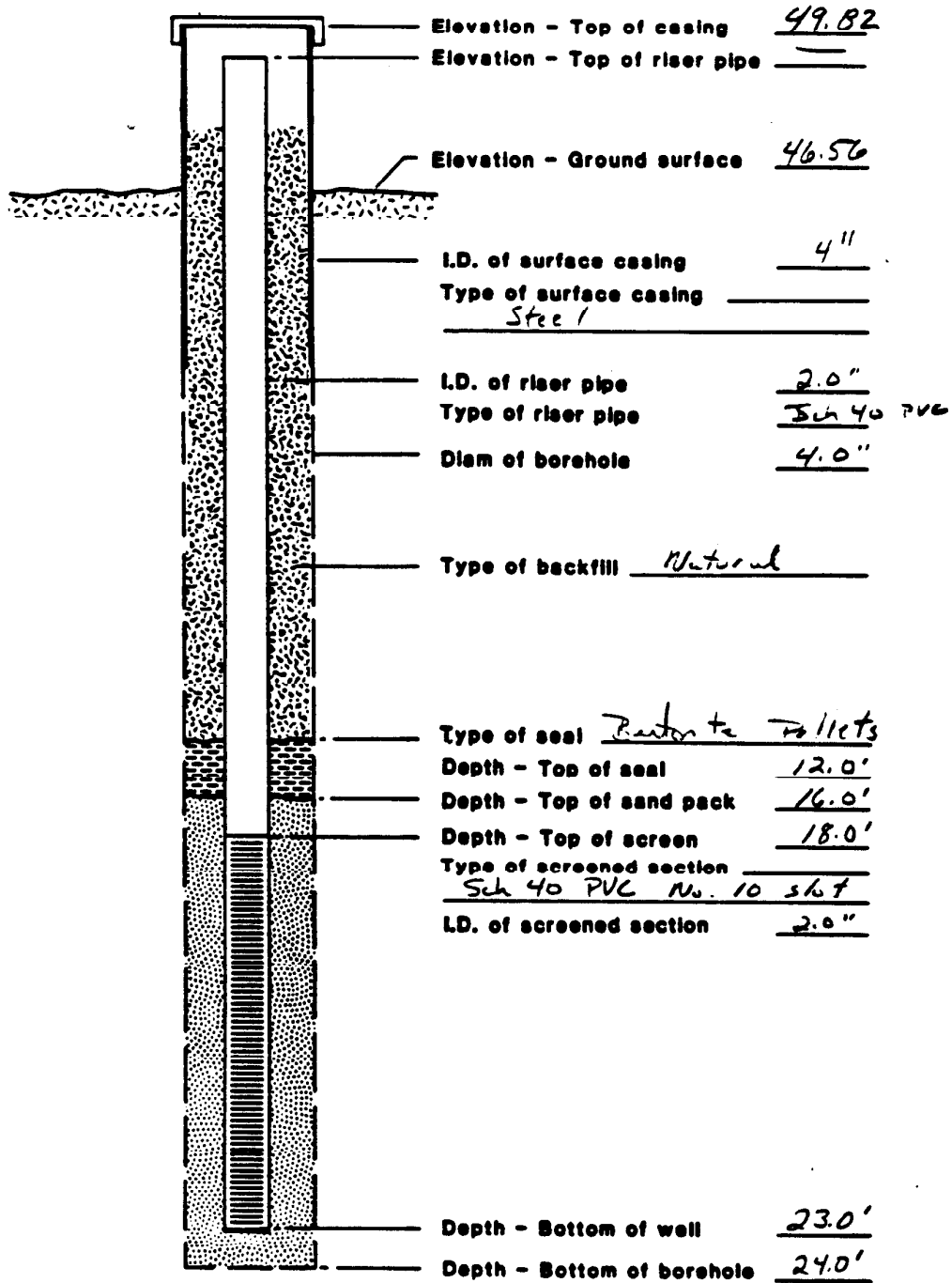
Proportions Used	
trace	0 to 10%
little	10 to 20%
some	20 to 35%
and	35 to 50%

140lb Wt. x 30" fall on 2" O.D. Sampler	
Cohesionless Density	Cohesive Consistency
0-10 Loose	0-4 Soft 30 + Hard
10-30 Med. Dense	4-8 M/Stiff
30-50 Dense	8-15 Stiff
50+ Very Dense	15-30 V-Stiff

**SUMMARY:**  
Earth Boring 50'  
Rock Coring \_\_\_\_\_  
Samples \_\_\_\_\_

HOLE NO OW13-C

# INSTALLATION REPORT MONITORING WELL No. SW-13





# GUILD DRILLING CO., INC.

100 WATER STREET EAST PROVIDENCE, R I

TO Weston Geophysical Corp. ADDRESS Westboro, Mass  
PROJECT NAME Economic Planning Group LOCATION Woburn, Mass  
REPORT SENT TO above PROJ. NO. \_\_\_\_\_  
SAMPLES SENT TO Taken at Site OUR JOB NO. 86-163

SHEET 1 OF 1  
DATE 5-1-83  
HOLE NO. OWB-M  
LINE & STA. \_\_\_\_\_  
OFFSET \_\_\_\_\_  
SURF. ELEV. \_\_\_\_\_

GROUND WATER OBSERVATIONS		CASING	SAMPLER	CORE BAR	Date	Time
At <u>Not recorded</u> after _____ Hours	Type <u>HW</u>				START <u>10/18/85</u>	<u>8 a.m.</u>
At _____ after _____ Hours	Size i D <u>4"</u>				COMPLETE <u>10/18/85</u>	<u>8 a.m.</u>
	Hammer Wt <u>300#</u>			BIT	TOTAL HRS. _____	
	Hammer Fall <u>24"</u>				BORING FOREMAN <u>R. Eastwood</u>	
					INSPECTOR _____	
					SOILS ENGR. _____	

## LOCATION OF BORING

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler			Moisture Density or Consist.	Strata Change Elev	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc. Rock-color, type, condition, hardness, Drilling time, seams and etc.	SAMPLE		
				From 0-6	To 6-12	To 12-18				No	Pen	Rec
		0'-2'	D	2	2	3			Dark brown coarse to fine SAND, some silt	1	24"	14"
		2'-4'	D	2	2	3		2'-0"	Brown medium to fine SAND, some fine gravel	2	24"	15"
		4'-6'	D	14	10	12		3'-6"	Gray fine SAND, trace silt	3	24"	13"
		6'-8'	D	18	20	30		8'-0"	Gray-brown medium to coarse SAND & gravel, some silt	4	24"	19"
		8'-10'	D	24	39	35				5	24"	19"
		10'-12'	D	21	22	30				6	24"	18"
		12'-14'	D	31	37	39				7	24"	17"
		14'-16'	D	20	14	15		16'-0"		8	24"	9"
				13					Gray-brown fine to coarse SAND, some fine to coarse gravel & silt			
								25'-0"	Bottom of Boring 25'-0"			
									Installed 2" PVC Monitor Well			

GROUND SURFACE TO 25'

USED 4 "CASING: THEN installed well

Sample Type  
D=Dry C=Cored W=Washed  
UP=Undisturbed Piston  
TP=Test Pit A=Auger V=Vane Test  
UT=Undisturbed Thinwall

Proportions Used  
trace 0 to 10%  
little 10 to 20%  
some 20 to 35%  
and 35 to 50%

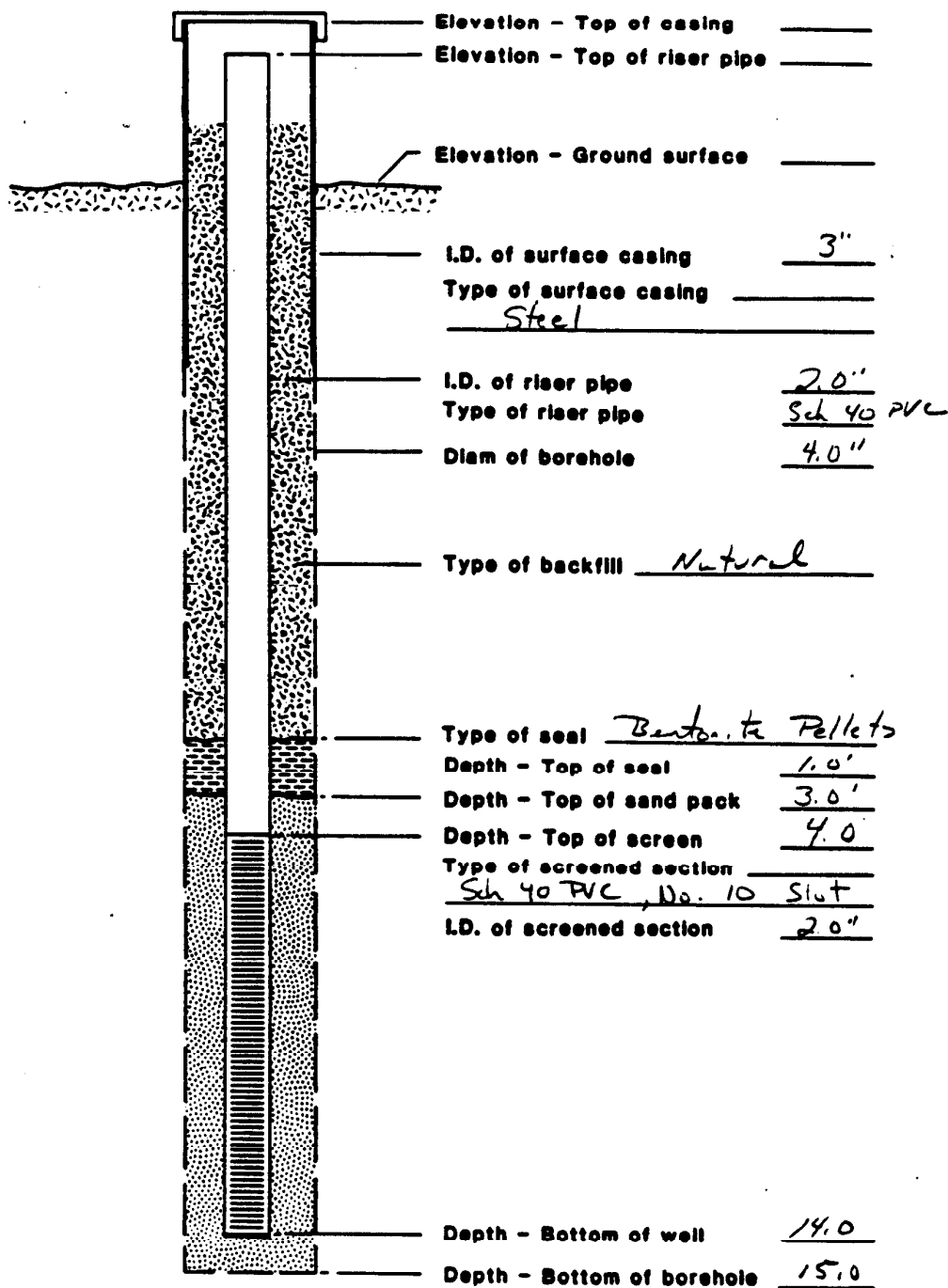
140 lb Wt. x 30" fall on 2" O.D. Sampler  
Cohesionless Density Cohesive Consistency  
0-10 Loose 0-4 Soft 30 + Hard  
10-30 Med. Dense 4-8 M/Stiff  
30-50 Dense 8-15 Stiff  
50 + Very Dense 15-30 V-Stiff

SUMMARY:  
Earth Boring 25'  
Rock Coring \_\_\_\_\_  
Samples 5

HOLE NO OWB-M



# INSTALLATION REPORT MONITORING WELL No. OW-14





# GUILD DRILLING CO., INC.

100 WATER STREET EAST PROVIDENCE, R. I.

TO Weston Geophysical Corporation  
PROJECT NAME Economic Planning Group  
REPORT SENT TO above  
SAMPLES SENT TO Taken at Site

ADDRESS Westboro, Mass  
LOCATION Woburn, Mass  
PROJ. NO. \_\_\_\_\_  
OUR JOB NO. 86-163

SHEET 1 OF 1  
DATE 01-14  
HOLE NO. W14-3  
LINE & STA. \_\_\_\_\_  
OFFSET \_\_\_\_\_  
SURF. ELEV. \_\_\_\_\_

GROUND WATER OBSERVATIONS		CASING	SAMPLER	CORE BAR	Date	Time
At _____ after _____ Hours	Type	HW	NONE		START	11/15/85
Top of Ground	Size I.D.	4"			COMPLETE	11/15/85
At _____ after _____ Hours	Hammer Wt	300#		BIT	TOTAL HRS.	
	Hammer Fall	24"			BORING FOREMAN	R. E. Woodward
					INSPECTOR	
					SOILS ENGR.	

LOCATION OF BORING: Swamp - Drove HW casing

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler			Moisture Density or Consist.	Strata Change Elev.	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc. Rock-color, type, condition, hardness, Drilling time, seams and etc.	SAMPLE		
				From	To					No	Pen	Rec
				0-6	6-12	12-18						
		No Samples							General description of soil from wash - Brown fine SAND, trace of silt			
								15'				
									Bottom of Boring 15'			
									Installed 2" Sch 40 PVC O.W. @ 18'			

GROUND SURFACE TO 15'

USED 4 "CASING: THEN Installed O.W.

Sample Type  
D=Dry C=Cored W=Washed  
UP=Undisturbed Piston  
TP=Test Pit A=Auger V=Vane Test  
UT=Undisturbed Thinwall

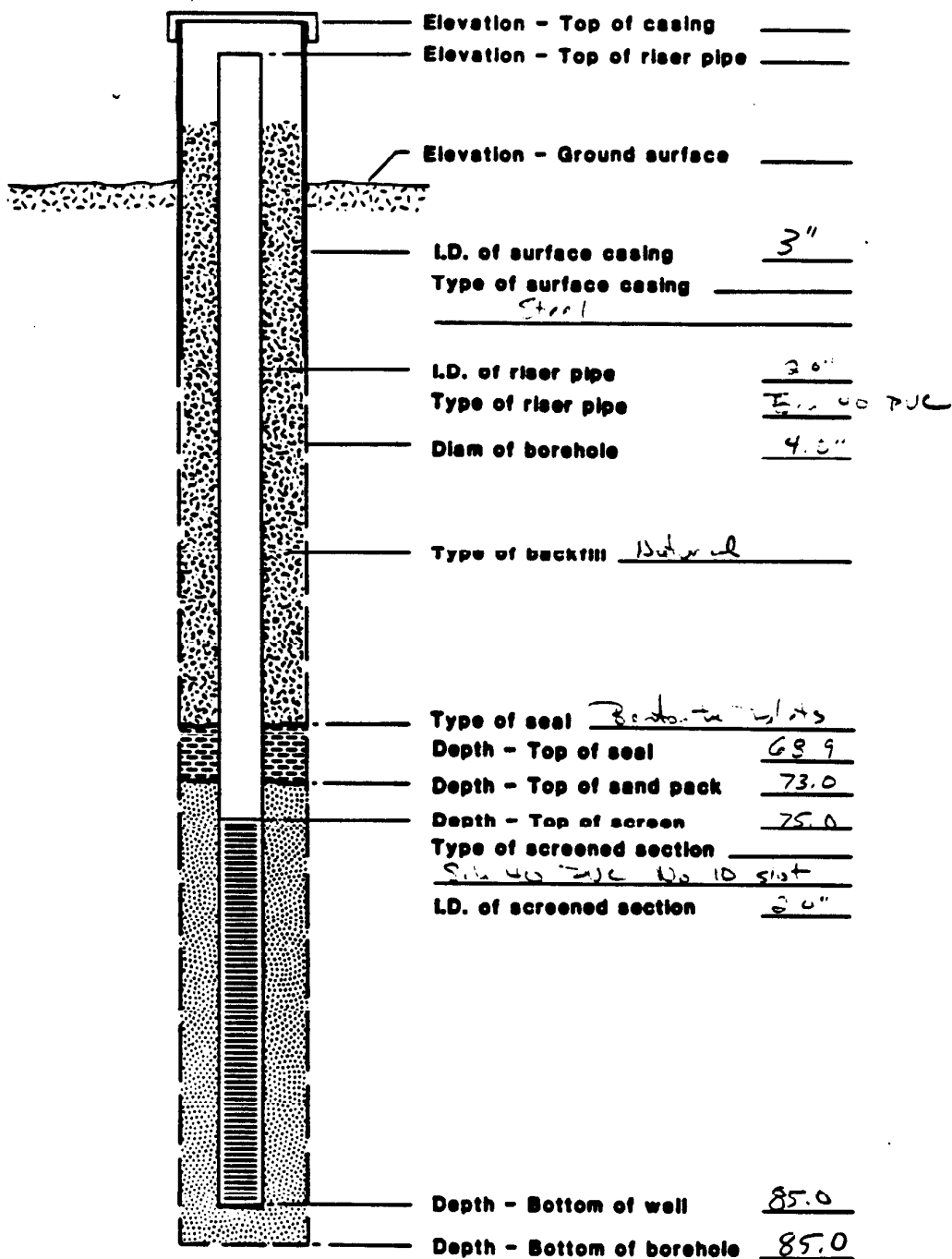
Proportions Used  
trace 0 to 10%  
little 10 to 20%  
some 20 to 35%  
and 35 to 50%

140 lb Wt. x 30" fall on 2" O.D. Sampler  
Cohesionless Density Cohesive Consistency  
0-10 Loose 0-4 Soft 30+ Hard  
10-30 Med. Dense 4-8 M/Stiff  
30-50 Dense 8-15 Stiff  
50+ Very Dense 15-30 V-Stiff

SUMMARY:  
Earth Boring 15'  
Rock Coring \_\_\_\_\_  
Samples \_\_\_\_\_

HOLE NO. W14-3

# INSTALLATION REPORT MONITORING WELL No. W-14





# GUILD DRILLING CO., INC.

100 WATER STREET EAST PROVIDENCE, R. I.

TO Weston Geophysical Corporation

ADDRESS Westboro, Mass

PROJECT NAME Economic Planning Group

LOCATION Woburn, Mass

REPORT SENT TO above

PROJ. NO. \_\_\_\_\_

SAMPLES SENT TO Taken at Site

OUR JOB NO. 86-163

SHEET 1 of 3

DATE \_\_\_\_\_

HOLE NO. W14

LINE & STA. \_\_\_\_\_

OFFSET \_\_\_\_\_

SURF. ELEV. \_\_\_\_\_

GROUND WATER OBSERVATIONS				CASING	SAMPLER	CORE BAR	Date	Time
At _____	after _____	Hours	Type	HW NW	S/S	NVII	START	11/8/85
Top of ground			Size I.D.	4" 3"	1 3/8"	2 3/8"	COMPLETE	11/15/85
At _____	after _____	Hours	Hammer Wt	300#	140#	BIT	TOTAL MRS.	
			Hammer Fall	24"	30"	Dia.	BORING FOREMAN	R. Eastwood
							INSPECTOR	
							SOILS ENGR.	

## LOCATION OF BORING: Swamp - Drove HW casing

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler			Moisture Density or Consist.	Strata Change Elev.	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc. Rock-color, type, condition, hardness, Drilling time, seams and etc.	SAMPLE		
				From 0-6	6-12	To 12-18				No	Pen	Rec.
		0'-2'	D	1	1	1	W/loose		Dark brown organic PEAT 10"	1	24"	18"
		2'-4'	D	1	2	5	"		Brown fine SAND, tr. of silt	2	24"	20"
		4'-6'	D	6	9	13	W/m/d		Brown fine SAND, tr. of silt	3	24"	16"
						16						
		9'-11'	D	1	2	3	W/loose			4	24"	14"
						2						
		14'-16'	D	2	3	4	"			5	24"	19"
						4						
		19'-21'	D	1	3	5	"			6	24"	14"
						9						
		24'-26'	D	3	5	5	"			7	24"	0
						4						
		29'-31'	D	9	14	16	W/m/d		Brown fine SAND, tr. silt	8	24"	15"
						14						
		34'-36'	D	4	7	12	"			9	24"	12"
						18						
								37'				
									Very coarse brown SAND & gravel & cobbles, silt			

GROUND SURFACE TO 40'

USED 3" & 4" CASING: THEN Cored to BOB

### Sample Type

D=Dry C=Cored W=Washed

UP=Undisturbed Piston

TP=Test Pit A=Auger V=Vane Test

UT=Undisturbed Thinwall

### Proportions Used

trace 0 to 10%

little 10 to 20%

some 20 to 35%

and 35 to 50%

### 140lb Wt. x 30" fall on 2" O.D. Sampler

Cohesionless Density

0-10 Loose

10-30 Med. Dense

30-50 Dense

50+ Very Dense

### Cohesive Consistency

0-4 Soft 30+ Hard

4-8 M/Stiff

8-15 Stiff

15-30 V-Stiff

### SUMMARY

Earth Boring 70'

Rock Coring 15'

Samples 15

HOLE NO W14-D

TOWN PRESS - EAST PROV.



# GUILD DRILLING CO., INC.

100 WATER STREET EAST PROVIDENCE, R. I.

SHEET 2 OF 3

DATE \_\_\_\_\_

HOLE NO. W144

LINE & STA. \_\_\_\_\_

OFFSET \_\_\_\_\_

SURF. ELEV. \_\_\_\_\_

TO \_\_\_\_\_ ADDRESS \_\_\_\_\_  
PROJECT NAME \_\_\_\_\_ LOCATION \_\_\_\_\_  
REPORT SENT TO \_\_\_\_\_ PROJ. NO. \_\_\_\_\_  
SAMPLES SENT TO \_\_\_\_\_ OUR JOB NO. 86-163

GROUND WATER OBSERVATIONS		CASING	SAMPLER	CORE BAR	Date	Time
At _____	after _____ Hours	Type _____	_____	_____	START _____	a.m.
At _____	after _____ Hours	Size I.D. _____	_____	_____	COMPLETE _____	p.m.
		Hammer Wt. _____	_____	BIT _____	TOTAL HRS. _____	
		Hammer Fall _____	_____	_____	BORING FOREMAN _____	
					INSPECTOR _____	
					SOILS ENGR. _____	

## LOCATION OF BORING:

DEPTH	Casing Blows per foot	Sample Depths~ From - To	Type of Sample	Blows per 6" on Sampler			Moisture Density or Consist.	Strata Change Elev.	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc. Rock-color, type, condition, hardness, Drilling time, seams and etc.	SAMPLE		
				From 0-6	6-12	To 12-18				No	Pen	Rec
		39'-41'	D	60	93	27	W/m/d		Very coarse brown SAND & gravel & cobbles, silt	10	24"	13"
						14						
		44'-46'	D	52	21	9	W/m/d		Brown medium to coarse SAND & gravel, some silt & cobbles	11	24"	8"
						12						
		49'-51'	D	16	8	17	"			12	24"	8"
						23						
		54'-56'	D	6	6	22	"			13	24"	8"
						14						
		59'-61'	D	5	10	13	W/m/d			14	24"	11"
						23						
		64'-65'6"	D	120	*49	*19		64'	Very dense fine to medium SAND & gravel & silty Glacial Till	15	18"	10"
		** 70'-75'	C				Min/ft			C1	5'	5'
							4					
							4					
							4					
		75'-80'	C				4			C2	5'	5'
							5					
							5 1/2					
							4 1/2					
							5					
							5					

GROUND SURFACE TO \_\_\_\_\_

USED \_\_\_\_\_ "CASING: THEN \_\_\_\_\_

Sample Type  
D=Dry C=Cored W=Washed  
UP=Undisturbed Piston  
TP=Test Pit A=Auger V=Vane Test  
UT=Undisturbed Thinwall

Proportions Used  
trace 0 to 10%  
little 10 to 20%  
some 20 to 35%  
and 35 to 50%

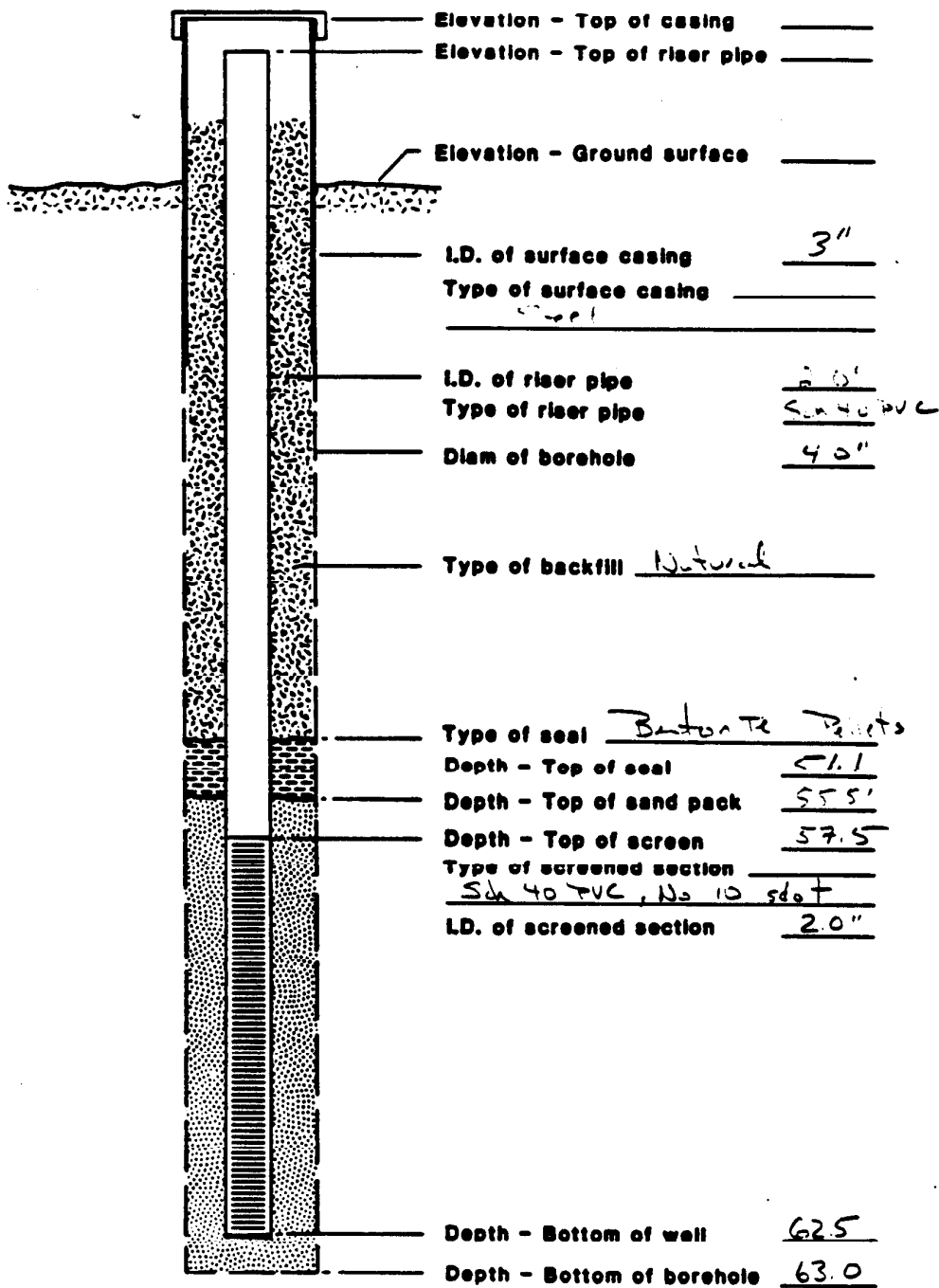
140 lb Wt. x 30" fall on 2" O.D. Sampler  
Cohesionless Density Cohesive Consistency  
0-10 Loose 0-4 Soft 30+ Hard  
10-30 Med. Dense 4-8 M/Stiff  
30-50 Dense 8-15 Stiff  
50+ Very Dense 15-30 V-Stiff

SUMMARY:  
Earth Boring \_\_\_\_\_  
Rock Coring \_\_\_\_\_  
Samples \_\_\_\_\_

HOLE NO. W14-D



# INSTALLATION REPORT MONITORING WELL No. CW-14



**GUILD DRILLING CO., INC.**

100 WATER STREET

EAST PROVIDENCE, R. I.

to Weston Geophysical Corporation

ADDRESS Westboro, Mass

PROJECT NAME Economic Planning Group

LOCATION Woburn, Mass

REPORT SENT TO           above          

PROJ. NO. \_\_\_\_\_

SAMPLES SENT TO Taken at Site

OUR JOB NO. 86-163

SHEET 1 OF 1

DATE \_\_\_\_\_

HOLE NO CW14

LINE &amp; STA. \_\_\_\_\_

OFFSET \_\_\_\_\_

SURF. ELEV. \_\_\_\_\_

GROUND WATER OBSERVATIONS		CASING	SAMPLER	CORE BAR.	Date	Time
At _____ after _____ Hours	Type	HW	NONE	_____	START	11/14/85
Top of ground	Size I.D.	4"	_____	_____	COMPLETE	11/14/85
At _____ after _____ Hours	Hammer Wt	300#	_____	_____	TOTAL HRS.	_____
	Hammer Fall	24"	_____	BIT	BORING FOREMAN	R. Eastwood
					INSPECTOR	_____
					SOILS ENGR.	_____

LOCATION OF BORING:

**Swamp - Drove HW casing**

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler			Moisture Density or Consist.	Strata Change Elev.	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc. Rock-color, type, condition, hard- ness, Drilling time, seams and etc.	SAMPLE		
				From 0-6	6-12	To 12-18				No	Pen	Rec
		No Samples							General description of soil from wash			
								0'-35'	Brown fine SAND, tr. of silt			
								35'	Very coarse brown SAND & medium gravel, some cobbles & silt			
								63'	Bottom of Boring 63'			
									Installed 2" Sch 40 O.W.@63'			

GROUND SURFACE TO 63'

USED 4

"CASING: THEN Installed O.W.

**Sample Type**

### Proportions Used

140lb Wt. x 30" tall on 2" O.D. Sampler

**SUMMARY:**

D= Dry C= Cored W= Washed

trace 0 to 10%

Cohesionless Density | Cohesive Consistency

Earth Boring 63

UP: Undisturbed Piston

Year	10	19	20%
1980	10	19	20%
1981	10	19	20%
1982	10	19	20%
1983	10	19	20%
1984	10	19	20%
1985	10	19	20%
1986	10	19	20%
1987	10	19	20%
1988	10	19	20%
1989	10	19	20%
1990	10	19	20%
1991	10	19	20%
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2067	10	19	20%
2068	10	19	20%
2069	10	19	20%
2070	10	19	20%
2071	10	19	20%
2072	10	19	20%
2073	10	19	20%
2074	10	19	20%
2075	10	19	20%
2076	10	19	20%
2077	10	19	20%
2078	10	1	

0-10	Loose	0-4	Soft	3
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### Rock Coring

TP=Test Pit    A=Auger    V=Vane Test

some 201035%

10-30	Med. Dense	4-8	M/Stiff
30-60	Dense	8-12	Stiff

**Samples** \_\_\_\_\_

UT=Undisturbed Thinwall

and 35 to 50%

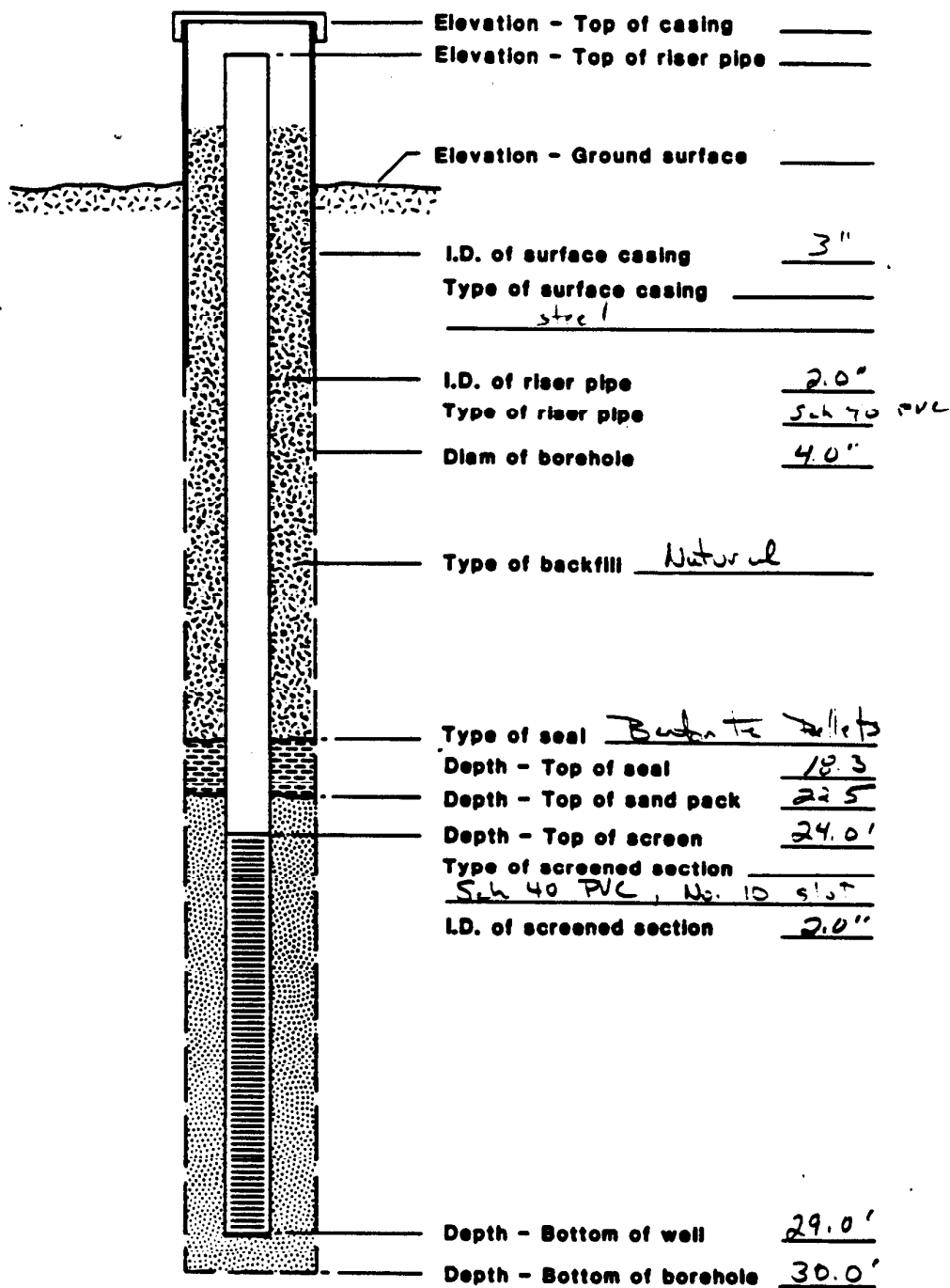
30-50	Dense	8-15	Stiff
50 +	Very Dense	15-30	V-Stiff

HOLE NO W14-C

TOWN PRESS - EAST PROV.



# INSTALLATION REPORT MONITORING WELL No. SW-14





# INSTALLATION REPORT MONITORING WELL No. OW-9

