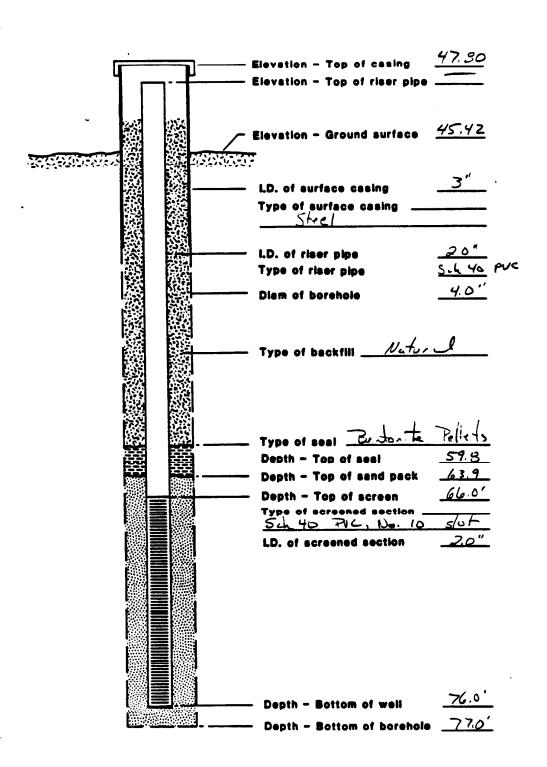
	3		100 V	/ATER	STREET		EAST PE	ROVIDENCE,	R I.	:	DATE			
		ton Geophys									HOLE NO			
TO	Wes	ron Geophys ME <u>Economi</u> c	Dia	nnin	g Grou	-   A	OCATION	Wobur	n Mass		LINE & STA.			
							10	DO I NO			OFFSET			
PRE-	10K   5EN	NT TOBo	n at	Sit	· A			UR JOB NO	86-1	63	SURF. ELEV			_
SAF											Dote	Tir	ng	
	GROU	ND WATER OBSE	RVATIO	NS			CASING			START	JO/4/85			: m
At	2'7"	after <u>COM</u>	Hour م	•	Туре		HW	None	None		10/4/85			IA.
				· ]	Size : D		4"			TOTAL HR	3.			
A1		_ after	Hou	rs	Hommer		300#		BIT		REMAN _R.		MOO	<u></u>
					Hammer	Fall	24"							
	OCATION	OF BORING	•				Wo	o ds						
===			$\overline{}$	-	iows per 6	11	Moisture	T	SOIL IDE	ITIFICATION		Τ.		
Ξl	Casing Blows	Sample Depths	Type		n Samplei		Density	1211010	Remarks inclu	de color, grad	ation, Type of	S	AMPL	E
DEPTH	per		Sample	Fron	6-12	0	or	Change	soil etc. Rock- ness, Drilling til	color, type , co ne , segms an	ndition, hard- d etc.	No	Pen	Rec
	foot			0-6	6-12	12-18	Consist.	Elev.						
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_ ا		SURFACE TO _		14'		USED		"CASING:	THEN I 30"fall on 2"0.5	nstalled	well	SI 14	MAR	<del></del>
	Deu Cal	ipe Cored W=Washe	4	1	Proport trace	ions U: O to IC			30 fellon 2 0 E Insity   Cohesive		Eor	th Bor		T.
	•	Jorea w=wasnei irbed Piston		ļ	httle	10 to 20	70 [	0-10 Los	0-4	Soft 3	SO + Hard Ro	ck Cor	ing _	
1 .		t A:Auger VeV	one Tes	, ]	some	20103		10-30 Med. 0 30-50 Dec	Dense 4-1	5 M/Stiff 5 Stiff		mples		_
1 0	JT = Undist	irted Thinwall		- 1	and	35 to 5	0%	50 + Very D	ense   15-	50 V-Siiff	HOL	E N	WO.C	8-S

## INSTALLATION REPORT MONITORING WELL No. <u>W-8</u>



## GUILD DRILLING CO., INC. 100 WATER STREET EAST PROVIDENCE, R I

TO	Wes	ton Geophys	ical	Cor	P+	— l <sup>4</sup>	ADDRESS -	Westho	m, Mass	<del> </del>	LINE & STA.			
PR	OJECT NA	ME Economic	Pla	nnin	g Grou	1 <del>p</del>	OCATION -	Wobut	n, Mass		OFFSET			
RE	PORT SEN	T TO	ve_	61+			PRO	) J. NO ? JOB NO	86-1	63	SURF. ELEV			
5A							100-				Dote	Tim	10	
		IND WATER OBSE	RVATIO	NS			CASING	SAMPLER	CORE BAR.	START	9/26/85		_	6.M 9.M.
At _	2'9"	ofter <u>Com</u> t	P. Hour	•	Туре		HW NW	_S/S_		COMPLETE	10/1/85		_	9.M.
					Size i D.		4" 3"	1 3/8'	<u> </u>	TOTAL HR	s. Yeman <u>R</u>	P = c+		د
A1 _		_ after	Hou	rs	Hommer	Wt.	300#	140#	BIT	INSPECTOR				
			<u> </u>		Hammer	Fall	24"	30"	<u>Dia.</u>	SOILS ENGI	·		_	_
L	OCATIO	OF BORING												
-	Casing	Sample	Type		ows per 6		Moisture	Strata		NTIFICATION		S/	AMPL	E
DEPTH	Blows per	Depths	of	From	Sample:	7 To	Density or	Change	soil etc. Rock-	color, type, co		<u> </u>		
8	1001	From - To	Sample	0-6	6-12		Consist.	Elev.	ness, Drilling ti	me, seams an	d etc.	No	Pen	Rec.
		0'-2'	Α	1	1		D/loose		Brown fir	ne SAND		1	24"	6"
				<u> </u>	-	?	<u> </u>						_	15.01
		2'-4'	D	1	3	4	W/100se	4.		·			24	<u>'19'</u>
		41-61	D	8	13		W/m/d	<del> </del>	Brown fir	ae SAND &	Fine to			
						22	] ` `		medium gr	evel, tr.	of silt			
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		9'-11'	D	5	5	6	W/100se					4	24	<u>'13'</u>
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		14'-16'	D	5	5	5	] "					5	24	'14'
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	<u> </u>		<del> </del>	┼			1	18'6"		•		┟──┤		$\vdash$
1		19'-21'	U	10	10	<del></del>	W/m/d		Brown fin	•			24	13.
1					ļ	10	]		medlum gr	avel & 81	ilt layers			
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1		29'-31'	D	6	8	14	W/m/d		i			8	24	12
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		SURFACE TO _	62	1	Pranari	USED	4 & 3		THENCO 30" fall on 2" 0.0		1	SUM	MARY	<del>-</del>
	iample Ty Dry C=0	<u>pe</u> Cored W=Washed	1	Í	trace	OtolC	% Cohe	sionless De	nsity   Cohesive	Consistency	Earl	A 1000	- F	ちつり
U	P = Undistu	rbed Piston			tittle	10 to 20	0%   0	)-10 Loc )-30 Med. 0		l Soft 3 B M/Stiff	O + Hard Roc	k Cori	19 T.	3
		t A=Auger V=V irbed Thinwall	one Tes	'	some and	20103 35105	5% 3C		nse 8-1	5 Stiff	HOLE		70 (	78-D
		irdeg ininwgii 111 - Iait Piol	1.	1		JJ .V J	- 10   5%	, + <b>+++y</b> U		SO V-Stiff	1		<del>-</del> •	_

70 PR	OJECT NA	·	100 W	ATER	STREE	ET	EAST F	PROVIDENCE,	, INC.		SHEET	8 <sub>()</sub>	<b>≀8</b> -1	<u>-</u>
RE	PORT SEN	T TO			,		l i	DOU NO	86-163	·····	OFFSET			
At _		UND WATER OBS	SERVATION	IS I	Type Size i D Hamme	er Wt		SAMPLER		START COMPLETE TOTAL HRS BORING FOR INSPECTOR SOILS ENGR	S. REMAN			9.M. 9.M. 9.M.
	OCATIO	N OF BORING	:		nomme	er Full				SOICS CHO				
DEPTH	Cosing Blows	Sample Depths	Type	or	ows per	ler	Moisture Density	Strata	SOIL IDEN Remarks inclui soil etc. Rock-			s	AMP	LE
2	per foot	From- To	Somple	From 0-6	6-12	10 2 [ ;2-16	Or Consist	Elev	ness, Drilling tir	ne, seams and	d etc.	No	Pen	Rec
		39'-41'	D	16	14	13 25	W/m/d		Brown mediu Fine SAND w gravel			10	24"	1"
		44'-46'	D	16	17	23 18		4716"	Brown medi & fine San Gravel and	d with a		11	24	9"
		49'-51'			/3" 1 *7	*/ 2/3" *6		47 0	Brown very coarse SAI cobbles,	y dense m D & coar	edium to se gravel	©1/	2 24	'8"
		@ 541	Refu	sa1								6	D	<b>D</b>
		59'-61'	D	62	60	129			Pushed col	bble		13	24'	70
		62'-67'	C					61'6"	Gray very GABBRO DI w/quartz	ORITE int		CI	5"	4'2
		67'-72'	С				3	Note:	1.*Denotes	300# wt.	,	C2	51	4.

0-4 Soft 30 + Hard Rock Coring

Samples \_

HOLE NO OW8-D

4-8 M/Stiff

8-15 Stiff 15-30 V-Stiff

2. 9" Seam @ 64' & 8' Seam @ 70'6" 3. 50% water loss while coring after hitting seam Installed 2" PVC O.W. @ 80' 72'-77' C 771 Bottom of Boring 77' GROUND SURFACE TO USED . CASING: THEN SUMMARY: 14015 Wt. x 30" fall on 2" O.D. Sampler Somple Type Proportions Used Cohesionless Density | Cohesive Consistency Earth Boring D:Dry C:Cored W:Washed 01010% trace

0-10

little

some

ond

101020%

201035%

351050%

Loose

10-30 Med. Dense

30-50 Dense 50 + Very Dense

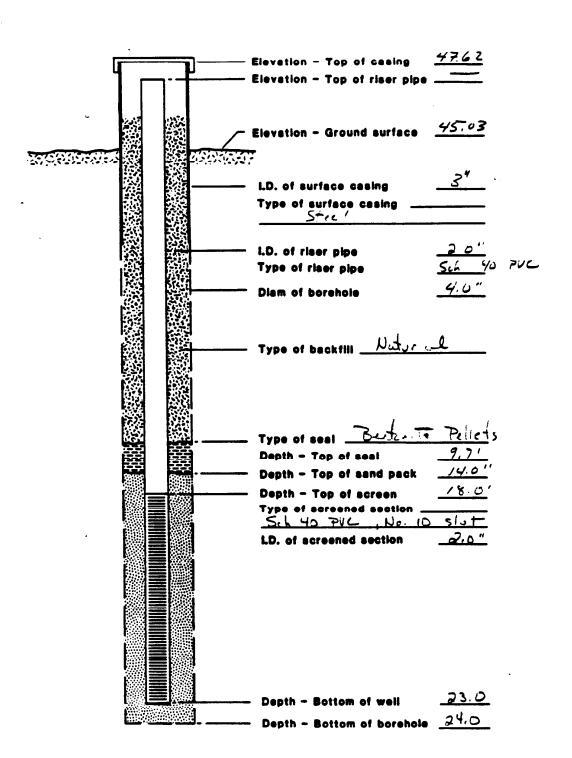
TOWN PRESS - EAST PROV.

TP=Test Pit A=Auger V=Vone Test

UP=Undisturbed Piston

UT=Undisturbed Thinwall

## INSTALLATION REPORT MONITORING WELL No. 5\omega-8

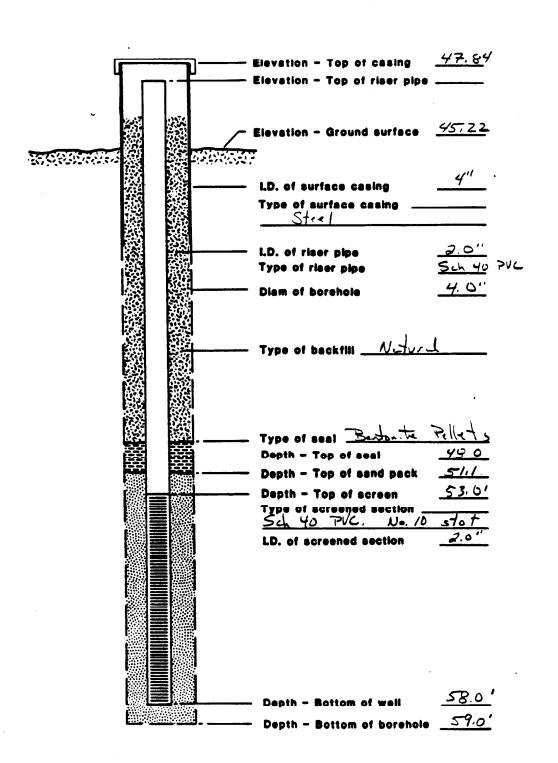




### GUILD DRILLING CO., INC. SHEET \_\_\_\_\_ OF \_\_\_\_\_ DATE \_\_\_\_\_

VO.					STREET			ROVIDENCE,			HOLE NO. 12	- 6		
TO	Wes	ton Geophys	rical.	Cor	P	<sup>A</sup>	DORESS	Westbo	ro, Mass	<del></del>	LINE & STA.			
PR	OJECT NA	ME Economic	Pla	nin	g Grov	ար Ու	OCATION	Wobur	n, Mass		OFFSET			
RE	PORT SEN	nt toabo		645			5	PROJ. NO N IR JOS NO	86-1	63	SURF. ELEV.			
SA	MPLES SE	NT TOTAK	n at	SIL							Dote	Tir	70	
	GROU	ND WATER OBSE	RVATIO	vs			CASING	SAMPLER	CORE BAR.	START	10/4/85			2.5
At _	3'	_ ofter Com	Hour م	s	Туре		HW	None	None_	COMPLETE				2.00
	*				Size   D.		4"			TOTAL HR	3.			·
A1 _		_ after	Hous	1	Hommer	Wt.	300#		BIT	INSPECTOR	MEMANR_	EASI	WOO	الما
					Hommer	Fall	24"	-		SOILS ENGI				
	OCATION	OF BORING					Wo	oods						
	Casing	Sample	Type	Bio	ows per 6	11	Moisture		SOIL IDEI	NTIFICATION		Ι.	AMPL	7
Ę	Blows	Depths	of		Sample	•	Density	Strata Change	Remarks inclu soil etc. Rock-	de color, grad	ation, Type of	$\Box$	AMPL	
DEPTH	per	From- To	Sample	From	6-12	0 2-18	Consist	Elev.	ness, Drilling ti	me, seams an	d etc.	No	Pen	Rec.
_	foot			.0 0			COMPANY							
			$\vdash$											
		No sample	В				1		General D	escriptio	n of soil			
1									from wa			<u> </u>	-	
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-	GPOLINO	SURFACE TO .	24	<del>,</del>	<del></del>	USED	4	"CASING:	THEN IN	stalled (	),W,			
	Somple Ty				- Propor	tions U	sed	1401b W1.x	30" fall on 2"0.1	D. Sampler	1	SU	AMAF	<u>'Y</u> :
d	Dry C:	Cored W=Washe	đ		troce	01010	70		ensity   Cohesiv			rth Bo		
		urbed Piston it A=Auger V=1	Jone Tee	,	iittle some	10102		10-30 Med.	Dense 4-	8 M/Stiff	S	moles		
		urbed Thinwall	- wre (4)	"	and	35 to 5		30-50 De 50 + Very i	Dense   8-	15 Snff 30 V-Stiff	HOL	E N	O.UW	0-M

### INSTALLATION REPORT MONITORING WELL No. <u>CW-S</u>



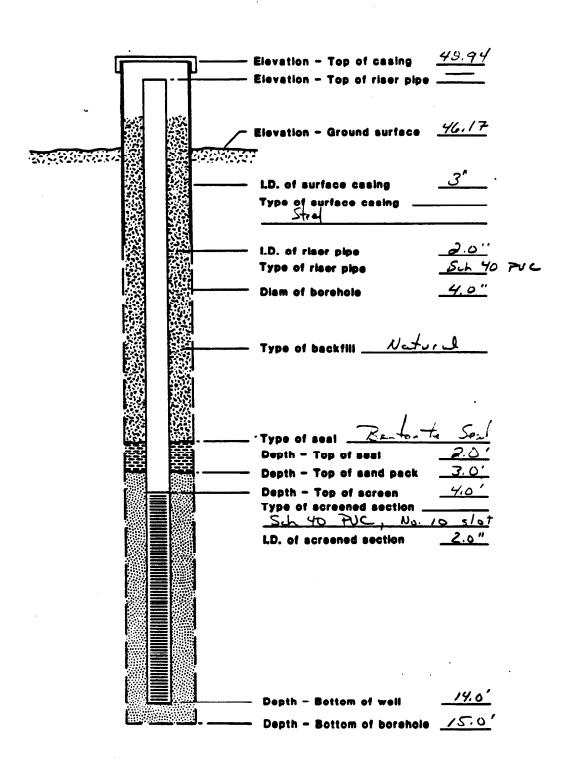
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### GUILD DRILLING CO., INC. 100 WATER STREET EAST PROVIDENCE, R I

SHEET \_\_\_\_\_ OF \_\_\_\_

10	Wes	ton Geophy	100 V	VATEI Cor	R STREET	14	EAST PRO	OVIDENCE, Westbo	ro, Mass		HOLE NO.	Powe	-с	
PR(	DECT NA	ME Economi	c Pla	nnir	ig Groi	ար ի	OCATION	Mobur	n, Mass		OFFSET			
DE	ORT SEN	t to ah	OVA				I PR	OJ. NO						
SAI	APLES SE	NT TO Tak	en et	Sit			ou	IR JOB NO	86-1	63	SURF. ELEV			_
		ND WATER OBS					CASING	SAMPLER	CORE BAR.	START	<u>Dore</u> 10/3/85	Tin	_	9.M
At	2'10"	after <u>Con</u>	Hour	'5	Type Size i D.		HW 4"	None_	None	COMPLETE TOTAL HR				
At		_ after	Hou	rs	Hommer		300# 24"		BIT	BORING FOR INSPECTOR SOILS ENGR	REMAN _R_	East	WOO	<u>d</u>
L	OCATION	N OF BORING	:				Woo	s bo						<b>=</b>
=	Casing	Sample	Туре		iows per 6		Moisture	Strata	SOIL IDEN	TIFICATION	ation, Type of	SA	MPL	.Ε
DEPTH	Blows	Depths	of	۔۔۔۔		r To	Density or	Change	soil etc. Rock-	color, type, col	ndition, hard-			
۵	foot	From - To	Sample	0-6	6-12	12-18	Consist.	Elev	ness, Drilling til	ne, seams an	d etc.	No	Pen	Rec.
									General de	ecriptic	n of soil			
l									from wash					
. [		No sam	ples_		ļ		1		medium SA			3.5		
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-		SURFACE TO			- Process	USED		_"CASING:	THENTr 30"fall on 2"O.D		U <sub>e</sub> W <sub>e</sub>	SUM	MAD	<del>_</del>
_	omple Ty	<u>pe</u> Cored W='Washe	d		trace	ons u	1 0-4	esionless De	nsity   Cohesive	Consistency	Eart	h Born		
		ored W= Masne rbed Piston	:4	- 1	little	10 10 20	20%	0-10 Loc	ose   0-4	Soft 3	O + Hard Roc	k Cori	ng _	
		t A=Auger V=	Vane Tes	,	some	20103	60/	0-30 Med. 0 30-50 Dec		M/Stiff 5 Stiff		ples .		
U	T=Undistu	rbed Thinwall		ļ	and	35 to 5		O+ Very D	ense 15-3	O V-Stiff	HOLE	. NC	), OV	√8-C

### INSTALLATION REPORT MONITORING WELL No. 00-9



,	ROJECT NA	ton Geophys	100 V	Cor Cor	STREET	<del></del>	EAST F ADDRESS LOCATIO	PROVIDENCE,  S <u>Westho</u> IN <u>Wobur</u> PROJ NO	n, Mass		SHEET	<b>W-</b> 9	_	
; —		IND WATER OBSE					CASING		CORE BAR.		Dore	Ϋ́I	me	
A		after COMT		·s	Type Size i D		HW 4"	. <u></u> -		START COMPLETE TOTAL HRS	10/10/85 10/10/85			9.M. 9.M.
A	•	_ ofter	Hou	1	Hommer Hommer		300# 24"		BIT	INSPECTOR	EMAN _R		WOO	<u></u>
	LOCATIO	N OF BORING												
E D	Casing Blows	Sample Depths	Type of	on	ows per 6 Sample	r	Moisture Density	Siraia		NTIFICATION de color, gradi color, type, col	stian, Type of	s	AMP	LE
ځ	per foot	From - To	Sample	0-6	6-12	12-18	or Consist	. Elev.	ness, Drilling ti	ne, seams and	d etc.		Pen	Rec
		No sample	s				-		General d		n of soil	<u> </u>		
						-	┥		from wash Brown ver		t dense	<u> </u>	├	-
			-	ļ		-	┪	i	sand & gr			<del>                                     </del>	┝	<del>                                     </del>
ı			<del>                                     </del>	<del>                                     </del>			1	}	cobbles &			<b></b> -		$\vdash$
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-	Note:	D-illed she	J.				]							
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			†				1	14"-0"						
			<u> </u>						Bottom of	Boring	14"-0"			
1							<b>」</b>			<u> </u>				
			<u> </u>	<u> </u>	<u> </u>	<u> </u>	4		301 4		011777	<u></u>	igspace	<u> </u>
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THEN <u>installed well</u> GROUND SURFACE TO USED 4 "CASING: 140tb Wt.x 30"fall on 2"0.D. Sampler Cohesionless Density | Cohesive Consistency SUMMARY: Somple Type Proportions Used D=Dry C=Cored W=Washed trace 01010% 0-4 Soft 30 + Hard Rock Coring Samples 0-10 Loose 10-30 Med. Dense 30-50 Dense 50+ Very Dense 101020% UP : Undisturbed Piston little TP=Test Pit A=Auger V=Vone Test 201035% some 8-15 Stiff 15-30 V-Stiff

351050%

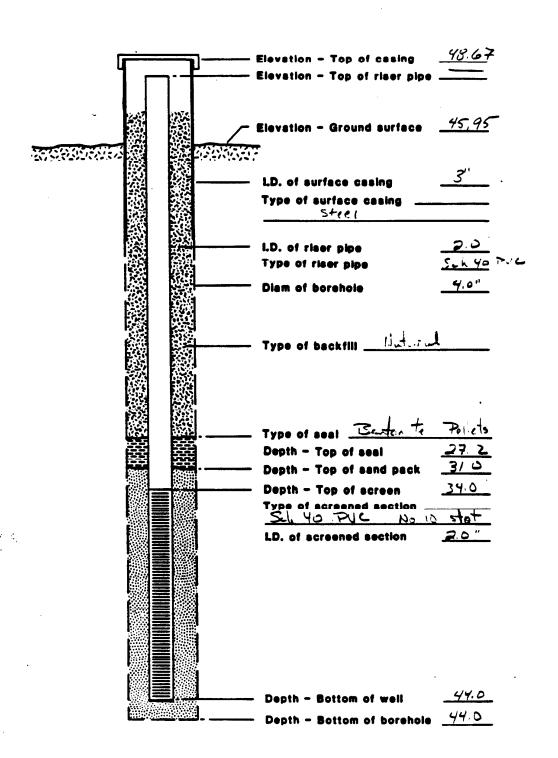
and

HOLE NO 009-S

TOWN PRESS - EAST PROV.

UT=Undisturbed Thinwall

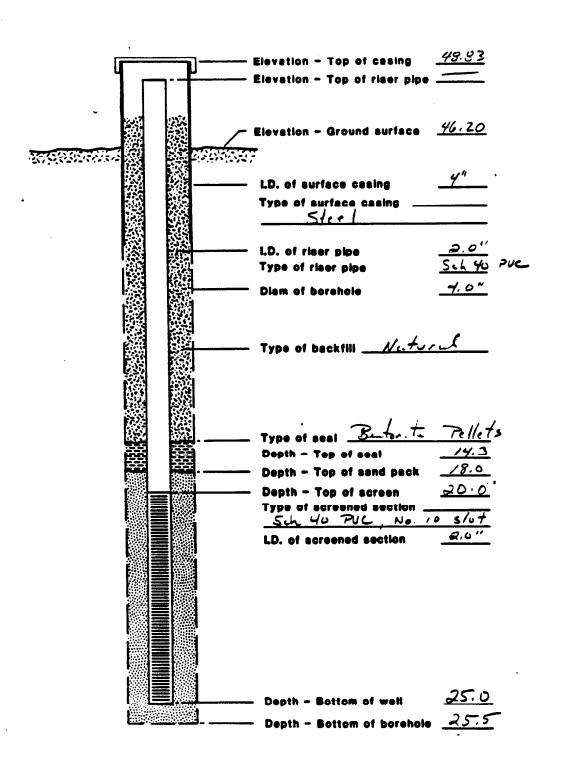
## INSTALLATION REPORT MONITORING WELL No. <u>W-9</u>



9		DO WATE	R STREET	t#	(31 740	VIDENCE, I	o Mass		HOLE NO.	
West	n Geophysi Economic	cal Cor	ер	- IAD	ORESS -	Woburn	Maga		OFFSET	1
~ T ALAS	CONOMIL		og Group	_ ILO	CATION —	i NO			SURF. ELEV	
DUECT RAME	robos	79			OUR	JOB NO	86-1	63	Dore	Time
MPLES SEN	T TO	et Si	te						10/7/55	9:M
0.0001401	D WATER OBSER	VATIONS		C	ASING	SAMPLER	CORE BAR.	START	10/8/85	
				•	HW	S/S	<u>NV-II</u> 2-1/8"	TOTAL HR	10/8/85	
<u>3'-3"</u>	offer Court	2 H00' 3	Type Size i D		4"	1-3/8"		BORING FO	REMANK_	<u>Fastwood</u>
	after	Hours	Hommer V	vr. 3	00#	140# 30#	BIT Diamond	INSPECTOR	A	
	grier		Hammer F	all -	24"					
										SAMPLE
LOCATION	OF BORING:	7.1	Blows per 6		Moisture	Strata		NTIFICATION		SAMPLE
Casing	Sample	Type	on Sampler		Density	Change				No Pen Rec
Blows per	Depths From - To	l	0-6 6-12 I	12-18	or Consist	Elev.	ness, Drilling	Iline, secine		1 24"14"
foot		<u> </u>		5			6"Brown T	OPSOLL	SAND &	
	0'- 2'		0		1		Very coar	se prown	t	2 12 5
	21 21		4 79		]	1	gravel, t	TACE DAL	-	
-	2'- 3'			<b> </b>	4	5'-0"			GARD 0.	3 12 3
	•		110 100		+	+	Very deni	se coarse	: אַעאַאָאַ מּ בּוּז+ דּיִּזוּ	F
	4 - 5	D	110 100	+	<u> </u>	1	gravel,	copples,	silt, Till	4 24" 1
	1	1010	63 31	31	]	1				
	9'- 11'		32		_		l l			5 24 10
<b> </b>				32	4	Ì				5 24.110
	14 -16	D	22   24	1-32	-		1			1-1-1
		<del>-                                    </del>	30	+-	ゴ		l l			
	<del> </del>	-+			$\Box$		1			6 24"
ote	19'-21'	D	53 47	32	<u>-</u>		}			<del></del>
11120			35	┽		Ì	1			1-1-1
ead to				+-	_	Ì	1			
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\ <del> </del>		Refuse	<del>                                     </del>	-+-	min	1t	1	~		10-1-1
	28'-9"		<del>*                                    </del>		7 6		177	serive &	hard gray	Gab
l	29'- 3					1		10 0 0 1 1 B	Interpedace	
			T	-+-	ન રે	2	with 9	wartz & (	Granite Gno	2188
			<del></del>	-+-	<u> </u>	1000000000000000000000000000000000000				CS 2
	34 '-39	· C	+			5,	1		± -	
1 -	<del>- 34 -33</del>				5	5 <b>5</b>	47' 2	" PVC Mo	nitor well	
					—	2				<del> </del>
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		л. С	<del>-{</del> }-	-+		72   5	1			
	39'-1	<del>4.   C</del>	11			5				
1 -				$\Box$		53	1			<b></b>
1 -				+		5 2				<u> </u>
1			_ <del></del>			5 44	'-0"	of Box	ing 44'-0"	
			-++				Bott	C CO 44	****	
	OUND SURFACE	70	29'	1	USED 4	& 3_"CAS		_ 2"O D Som		SUMMA Earth Borns
	OUND SURFACE		) P	roportio	01010%	Cohesion	ess Density	COMBINE COM	M 2 · 4 · · · · · · · · · · ·	A Rock Coring
P				oce	A1010%	0.10	Loose	0-4 5		Samples

UT=Undisturbed Thinwall 10WH #1115 - 1AST #104.

### INSTALLATION REPORT MONITORING WELL No. 50-9

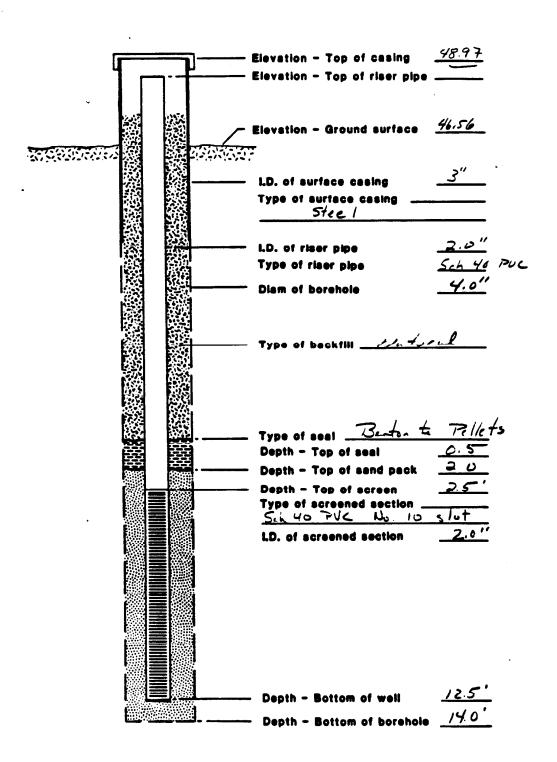




#### GUILD DRILLING CO., INC.

	Wes	GU	100 W	VATER	STREET		EAST PRO	VIDENCE,			DATE HOLE NO	Э́ ( <b>ж</b> е	)-M	
PR	OJECT NA	ME Economic	Pla	nnin	e Grou	با ــع	OCATION -	Wobur	n, Mass		LINE & STA.			
RE	PORT SEN	T TOabc	ve_	61+			PRO	)J. NO. ——.	86-1	63	SURF. ELEV.			
54											Dote	Tim	10	=
AJ _		IND WATER OBSE		.	Туре		CASING HW	SAMPLER	CORE BAR.	COMPLETE	10/9/85 10/9/85			 
A1 _		_ after	— Hour	·	Size i D. Hommer i Hommer	Wt. 3	4" 300# 24"		BIT	TOTAL HRS BORING FOR INSPECTOR SOILS ENGR	EMAN _R_	East	woo	<u>a</u>
ı	OCATION	N OF BORING												
DEPTH	Casing Blows	Sample Depths U	Type of	on	ows per 6 Sampler		Moisture Density	Strata Change	SOIL IDEN Remarks inclu- soil etc. Rock-	NTIFICATION	ation, Type of	S#	AMPL	.E
8	per foot	From - To	Sample	From O-6	6-12	i2-18	or Consist.	Elev.	ness, Drilling tir	ne, seams and	detc.	No	Pen	Rec.
		No samples							General defrom wash	•				
• ;									Brown vergeravel & Till	y coarse cobbles &	SAND & boulders			
										:				
								26 <b>"-</b> 0"						
									Bottom of	Boring 26	5'-0"			
									29' Monito	r well, a	PVC			
			<u> </u>											
										,				
	GROUND	SURFACE TO _	26	1	1	USED .	<u> </u>	CASING:	THENins	talled w	ell	<u></u>	L	<u></u>
٥	omple Ty				Proportii trace little		% Cohes	4016 W1. x 3	50"fall on 2"O.D.	Sampler Consistency	Eor	SUMA to Born to Corin	9 3	61
T	P=Test Pi	t A=Auger V=Vi	one Test			201035	% 30	-30 Med. D	ense 4-8	M/Stiff Stiff		ples _		)_M

### INSTALLATION REPORT MONITORING WELL No. 00-10

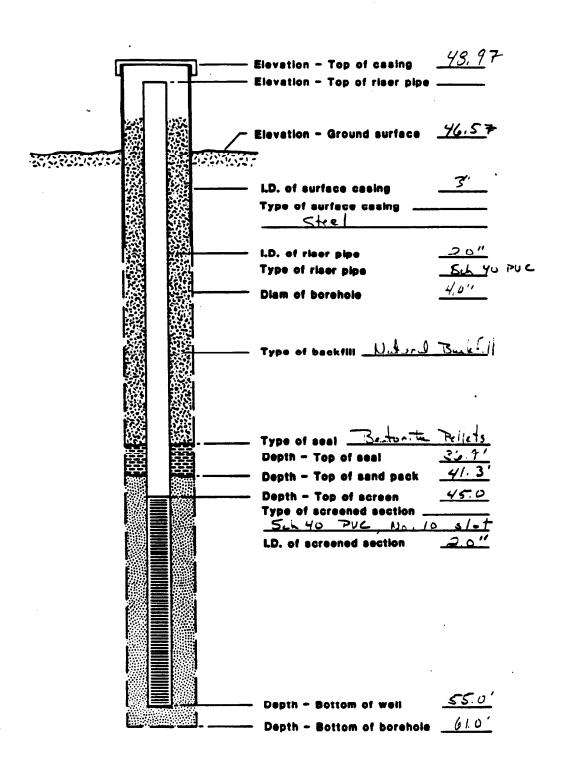




### GUILD DRILLING CO., INC.

					JINEE		EMDI FAC	- •			HOLE NO.	SW-	13	2
TO	Wes	ton Geophy	sical	Cor	P	<sup>4</sup>	DORESS -	WESTDO	Mana		LINE & STA.			
PR(	DJECT NA	ME Economi	c Pla	nnin	g Grou	יים ונ	OCATION -				OFFSET			
REF	PORT SEN	T TO	ove		_		PRO	0J. NO	86-1	63	SURF. ELEV.			
SAI	MPLES SE	NT TO Tak	an at	SIE	•		1001	7 JUB NU	- 60-1		Date		m e	$\Box$
	GROU	NO WATER OBSE	RVATIO	NS			CASING	SAMPLER	CORE BAR.	_			~~	•
	4'4"			ı						START	9/19/85	<u> </u>		, ji m.
AI	A·A·	after	HOUF	,	Type		HW .	<u>s/s</u>		COMPLETE		<b>'</b> —		. 3.A.
				·	Size i D.		4"	1 3/8"		TOTAL HR	3. Reman <u>R</u> .	Pasi	-1200	<b>a</b>
At _		_ after	Hoy	rs	Hommer		300# <u> </u>	140#	BIT	INSPECTOR		14831		
					Hammer	Fall	24"	30"		SOILS ENG!	٠			
	0047:01	L OF BORING					Woo	o ds						
	OCATION	OF BORING	T .									=		==
ΞÌ	Casing	Sample	Type		ows per 6 Sampler		Moisture	Strata	SOIL IDER	NTIFICATION	ation, Type of	s	AMPL	3.
DEPTH	Blows	Depths	of	From		o	Density	Change	soil etc. Rock-	color, type, co	ndition , hard-	<b></b> -		
ا ھ	foot	From - To	Sample	0-6	6-12	12-18	Consist	Elev.	ness, Dritting fil	me, seams an	d etc.	No	Pen	Rec
		0'-2'	n	,	3	3	M/100		Brown fir	e to med	ium SAND	1	2411	0"
		<u> </u>	1	-		2	1.,, 200	2'	medium to					
		2'-4'	D	4	4	3	1 .	<del>                                     </del>	some silt		,	2	24	13"
		•	T	Ť		6	1	ا ا	Very fine		AND some			
		4'-6'	D	13	35	57.	W/v/d	4'6"	medium sa			3	24	13"
						43	1	1 1				-		
							1	1	Very coar					
							]	1	gravel, s	ilt, som	e fine sam	1		
			1				]	1						
		9'-11'	D	24	21	19	W/m/d						اعما	2/11
				\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		18	] \"/\!\\\\\				•			
						10	]					L	<u> </u>	
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			1		I			14'				1		$\sqcup$
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Г	GROUND	SURFACE TO	14	1		USED	4	"CASING:	THEN Inst	alled O.	W			_
	Somple Ty	pe		1	Proport	ions U			30" fall on 2" 0 C		1_		RAME	Υ.,
O	Dry C=	Cored Warwashe	đ	ı	trace	01010	70	esionless De		e Consistency		rth Bor ck Cor		14.
		rbed Piston			httle	101020	170	0-10 Loi 0-30 Med.(		4 Soft : B M/Stift		mples	- 7	
1		t A:Auger V:	Vone Tes	*	some	20103	5%   3	0-50 De	nse 6-1	5 Stiff	حسبابي			SW-13
1	JT = Undist	irted Thinwoll		ı	and	35 to 5	⊘%∤ ≎	O + Very C	2ense   15-3	30 V-Stiff	l mor		J. :	PM-13

## INSTALLATION REPORT MONITORING WELL No. W-10



•		O WATER	STREET	t	ASI FRO	VIDENCE,	MARA_		HOLE NO	
West	E Economic	al Cor	P		CATION -	Wobur	MARR		OFFSET	
	- CCOUCHE		is retin	- 1C	1000	I N()		163	SURF. ELEV	
ORT SENT	TOabov				OUR	JOB NO	804	383	Date )	Time
PLES SEN	T TOTERM					SAMPLER		R.	9/20/85	
GROUN	D WATER OBSERY	ATIONS			CASING				E 9/24/85	
	after		Type		HW NW	s/s_	NV2	TOTAL H	RS.	Pastwood
	G1161		Size I D		4" 3"	1 3/8	BIT	BORING F	rs. Oreman <u>R</u>	
	ofter	_Hours	Homme	r Wt.	300/	30"	Dia	_ SOILS EN	GR	المستنادية المستنادية
	, <b>3</b> ,,,,,		Homme	r Fall	24"	oods				
	T DODING:				w	)0u s		IDENTIFICATIO	N.	SAMPLE
OCATION	OF BORING	E.aa I	Blows pe	r 6"	Moisture	Strata	SOIL Remarks i	nclude color, gr	adation, Type of condition, hard-	<u> </u>
Cosing	Sample Depths	Type	on Same	)ler	Density	Change	soil etc. R	ock-color, type, ng time, seams	condition, hard- and etc.	No Pen Re
Blows per		Sample Fr	om 6-	To 12-18	Consist	Elev	ness, Driki	IN THE PARTY	dium SAND	1 24'1
foot	FIG.II- 10				D/100	se	Brown	fine to me	dium SAND	
	0'-2'	D	1   2	12	1	1	some f	ine grave	•	2 24'1
		D	2 3	4	] W/100	95 = 3 '6"				3 24"
	2'-4'	1-1		5_	_	-	Brown	SAND & CO	arse gravel	3   741
	41-61	n	20 3		W/v/d	1	tr. of	silt & c	000140	<del> +-+</del>
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		++			<b>]</b>		•			4 24
	9'-11'	D	24 3	0 24		'				<del></del>
	+3 -11			23	닉	ł	1			<del></del>
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	14'-16'	101	10	10 9	<b>—</b> "		1			<b></b>
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	101 011	- <del>  D</del>	18	12 1	<u> </u>	1	Ì			
	19'-21'				8					<b> </b>
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		- <del> </del> D	20	17 +	13 "					
	24'-26'	-+-	+**		6	1	1			<b> </b> -
-						1	1			-
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		-+-	1 77	13	12 W/1	m/d	1			
	29'-31'	<del></del>								-
						1				<b>}</b>
-				1			33'6"		7 F. C.	111 6 9
1			36	28	21 W/	v/d	Gr	SAND &	gravel & S	
	34'-36	<del></del>	36	1-48-	34		col	bbles - T	111	
			_				D.=	usal w/ro	ller bit	
1 -	a37'2"				1	1		2"-39'6"-	Large Bould	er
1 -	37'2"-	38'8		-	+	1				
1			1'		USED 3	& 4 "CA	SING: THE	N Cored		1 SUMA
GF	ROUND SURFACE	104	<u> </u>		ions Used	1 140	lb Wt.x 30" follows: Density	It on 2"O.D. So	onsistency	Earth Barn Rock Corp

201035%

351050%

some

and

0-10 Loose 10-30 Med. Densa 30-50 Densa 50 + Very Densa

4-8 M/Stiff 8-15 5tiff 15-30 V-Stiff

HOLE NO OW10-

UT=Undisturbed Thinwall 10WH PEEDS - SAST PROV.

TP=Test Pit A=Auger V=Vone Test

UP : Undisturbed Piston

		GL	100 \	WATER	STREET	•	EAST PRO	DVIDENCE,	, INC.		SHEET2 DATE HOLE NO	410	u d	V-/
		ME									LINE & STA.			
RE	PORT SEN	T TO					PR	OJ. NO			OFFSET			
SA	MPLES SI	ENT TO					ou	R JOS NO	86-163		SURF. ELEV			
											Date	Ťi	me	
	GRO	UND WATER OB		ŀ			CASING	SAMPLER	CORE BAR.	START				8.6
At _		after	Hou	rs	Туре		•		•	COMPLETE		_		6.7
					Size I.D.				-	I TOTAL MR	S. Reman			
At _		_ ofter	Hou	rs	Hommer	Wt.			- BIT	INSPECTOR	KEMAN			
	- 4.4		•		Hammer	Fall					۹			
1	OCATIO	N OF BORING	_ ·											
					ows per 6	,11	Moisture		00:: 105	12:6:0.12:01:		=		==
Œ	Casing Blows	Sample Depths	Type	or	ows per c Sample:	7	Density	Strata		NTIFICATION de color grad	ation. Type of	9	SAMP	LE
DEPTH	per	From - To	Sample	From	<u> </u>	Го	or	Change	soil etc. Rock-	color, type, co	ndition, hard-		Τ_	1_
٥	foot			0-6	6-12	12-18	or Consist.	Elev.	ness, Drilling ti	me, seams an	d etc.	No	Pen	Rec
							Min/ft		BEDROCK Gabbro DIOI	TTTP 4-4		L		
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GROUND SURFACE TO USED \_ "CASING: THEN 140 lb Wt.x 30"fall on 2"0.D. Sampler Cohesionless Density | Cohesive Consistency Sample Type Proportions Used SUMMARY: Earth Boring D.Dry C=Cored W=Washed trace 01010% 0-10 Loose 10-30 Med. Dense 30-50 Dense 50 + Very Dense

101020%

201035%

351050%

little

some

and

30 + Hard

**Rock Coring** 

HOLE NO OW10-D

Samples \_

O-4 Soft

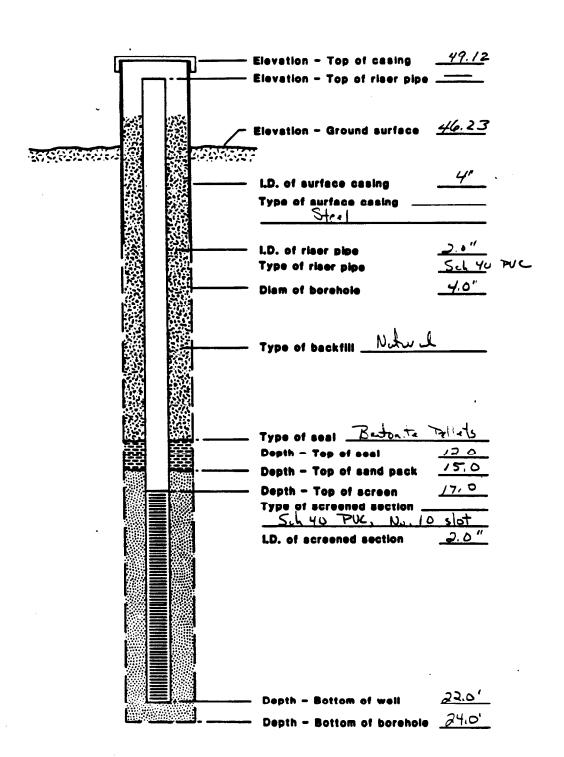
4-8 M/Stiff 8-15 Stiff 15-30 V-Stiff

TP=Test Pit A=Auger V=Vone Test

UP=Undisturbed Piston

UT=Undisturbed Thinwall

## INSTALLATION REPORT MONITORING WELL No. SW-10



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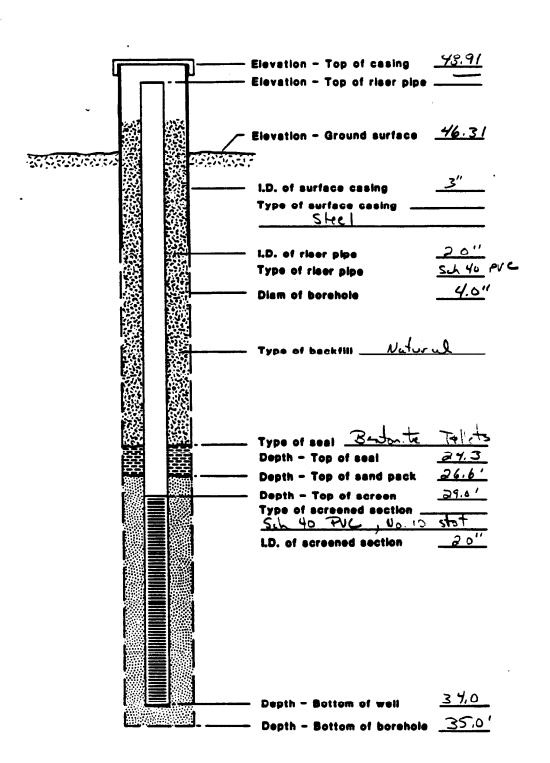
### GUILD DRILLING CO., INC. 100 WATER STREET EAST PROVIDENCE, R I

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	GROU	NO WATER OBSE	RVATIO	V5			CASING		PLER		JAR.	START	9/25/				S.M.
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••		after	Hou	1	Size i D. Hommer		300#			BIT	-	BORING FOR		R. E	st	100	4
AT -				٦	Hammer	Fall .	24"					INSPECTOR SOILS ENGR					
	LOCATION OF BORING: Woods																
_	Casing	Sample	Type		lows per 6		Moistur	Strate		SOIL	IDEN	TIFICATION	_		SA	MPL	F
DEPTH	Blows	Depths	of	Fron	n Sampler		Density or	Chang		Remarks in soil etc. Re	nclud OCk-l	de color, gradi color, type, col	ation, Type adition, ha	of	_		_
岁	per foot	From - To	Sample	0-6	6-12			Elev		ness, Drillis	ng tir	ne, seams and	etc.		io	Pen	Rec.
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## INSTALLATION REPORT MONITORING WELL No. CW-/0

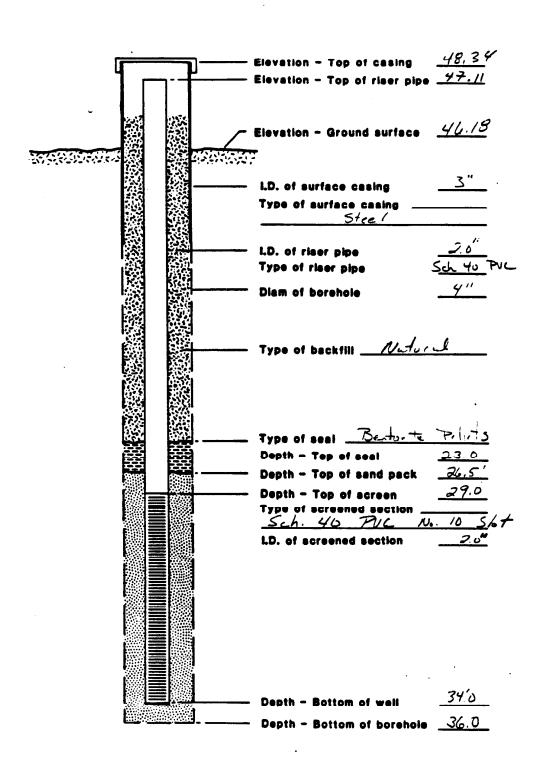




### GUILD DRILLING CO., INC. 100 WATER STREET EAST PROVIDENCE, R I.

NO SAMPLES SAMPLES FOR TO 351 OSD 12-15 Comist 1 From wesh - Brown fine to medium SADD w/medium to coards a grave!    No Samples   Popple				10-1	C	-				Wastha	ro Wass		HOLE NO.		_	
AMPLES SENT TOAbove	TO	RSW	ron Geophys	D1 a		Personal Company	<u> </u>	ACAT!	- CC	Wohn-	n. Mass					
SAMPLES SENT TO TAKEN AS STATE    GROUND WATER OBSERVATIONS   CASING SAMPLER CORE SAR   A   316"   offer Compa. Hours   Type   SH   None   None   Type   ST   Offer   Homer Wil 300°   Strel   Offer   Homer Wil 300°   Strel   Offer   Homer Wil 300°   Strel   Offer   Homer Wil 300°   Strel   Offer   Homer Wil 300°   Strel   Offer   Homer Wil 300°   Strel   Offer   Homer Wil 300°   Strel   Offer   Homer Wil 300°   Offer	PR	DJECT NA	WE FCOHOMIC	PIA	11111	ig Grui	<del>ф</del> п	OCAL	leer				OFFSET			
CASING   SAMPLER   CORE BAN   START   SUZISES   SAMPLER   CORE BAN   START   SUZISES   SAMPLER   CORE BAN   START   SUZISES   SAMPLER   CORE BAN   START   SUZISES   SAMPLER   CORE BAN   START   SUZISES   SAMPLER   CORE BAN   START   SUZISES   SAMPLER   CORE BAN   START   SUZISES   SAMPLER   CORE BAN   CORE BAN   CORE	PRE-	ADI ER RE	NTTO Take		Sit	•			OUR	S JOB NO	86	163	SURF. ELEV.			
CASING SAMPLER   CASI	341								100.			-	Date	Ťi	me	
Al					1			CASI	NG	SAMPLER	CORE B	START				9.M
Al	AI	3'6"	ofter <u>Comp</u>	L. Hour	<b>s</b>	•	. 11			None	None	TOTAL HR	<b>3</b> .			_
CCATION OF BORING:    County   Semple   Depths   Prom   Tope   Songle   Density   On Songle   Density   On Songle   Density   On Songle   Density   On Songle   Density   On Songle   Density   On Songle   Density   On Songle   Density   On Songle   Density   On Songle   Density   On Songle   Density   On Songle   Density   On Songle   Density   On Songle   Density   On Songle   Density   Density   On Songle   Density   On Songle   Density   De	At		_ after	Hbui	rs Ì	Hammer	Hommer Wt. 300#				BIT	INSPECTOR		Eas	two	<u> </u>
Caching Samples  Caching Samples  Depths Or of Samples  No Pan Rec  No Pan Rec		Woode														
E clarge Semple Depths Prom - To Songle O-8   6-12   2-16   Consist    No Samples	L	OCATION	N OF BORING							Woods						
Blows Depths of From To Sompler To To Sompler To To Sompler To To Sompler To To Sompler To To Sompler To To Sompler To To Sompler To To Sompler To To Sompler To To Sompler To To To Sompler To To To To To To To To To To To To To	7			Type				Moist	JF@	Strata			_	Τ,	AMP	F
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ROUND SURFACE TO 35! Somple Type Diry Cricered Wilkoshed UP-Lundanused histon Williams of the state of the st	٣		From - To	Somple	0-6	6-12			st.	1 1	ness, Drillin	g time, seams an	d etc	No	Pen	Rec
### From wash - Brown fine to medium SAND w/medium to coarsa gravel		1001														
### From wash - Brown fine to medium SAND w/medium to coarsa gravel						1		1		1 1						
### From wash - Brown fine to medium SAND w/medium to coarsa gravel			No Semples					ĺ		]	General	descriptio	n of soil		T	
GROUND SURFACE TO 35¹ USED & "CASING: THEN Installed O.W. @ 35¹  Somple Type D:Dry C:Clared W:Woshed UP: Undesturbed Piston UP: Undesturbed Piston UP: Undesturbed Piston UP: Undesturbed Piston UP: Undesturbed Piston URL D: One Of Boring 35¹  Installed O.W. @ 35¹  Installed O.W. @ 35¹  Proportions Used (ADIOW). "Colleging of Colleging Consistency (Colleging Colleging		NO SAMPLES					1		1							
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GROUND SURFACE TO 35 USED 4 "CASING: THEN Installed O.W. @ 35"  Somple Type D:Dry C:Cored W:Washed trace O to 10% 140 b Wt.x 30" felt en 2" O.D. Sampler Cohesionless Density Cohesive Consistency UP: Undisturbed Piston little 10 to 20% 10-30 Med. Dense 4-8 M/Stiff  Bottom of Boring 35"  Installed O.W. @ 35"  Installed O.W. @ 35"  SUMMARY: Earth Boring 35"  Cohesionless Density Cohesive Consistency Cohesive Consistency Cohesionless Density Cohesive Consistency Cohesive Consistency Cohesive Consistency Cohesive Consistency Cohesive Cohesive Consistency Cohesive Cohes	l			┼	<del> </del>	<del></del>	<del> </del>	4						-	+	_
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Somple Type  D=Dry C=Cored W=Washed trace 01010%   Id-10   Id-	1			1	上			1		1	Tusta	TEG O.M. (6	33.		$\perp$	
Somple Type  D=Dry C=Cored W=Washed trace 01010%   Ittle 101020%   Ittle 101020%   Ittle 101020%   Ittle 101020%   Ittle 101020%   Ittle 101020%   Ittle 101020%   Ittle 101020%   Ittle 101020%   Ittle 101020%   Ittle 101020%   Ittle 101020%   Ittle 101020%   Ittle 101020%   Ittle I01020%							1			<u> </u>				I		
D=Dry C=Cored W=Washed trace 01010% Cohesionless Density Cohesive Consistency Earth Borng 35* UP = Undisturbed Piston iittle 101020% 0-10 Loose 10-30 Med. Dense 4-8 M/Stiff Samples Samples		GROUND	SURFACE TO _	35'		_	USED	4					O.W.			
UP = Undisturbed Piston   little IO 1020%   O-10 Loose   O-4 Soft 30 + Hord Rock Coring   Somples			<del></del>		1								) e.	<u>\$U</u>	MAI	₹Y:
TRANSPORT TO Somples 10-30 Med. Dense 4-8 M/SHIFF Somples		•		ı							• 1	•				
UT=Undisturbed Thinwall and 351050% 50+ Very Dense 15-30 V-Stiff HOLE NO OW-10				one Tee	. 1				IČ	)-30 Med. 0	Dense	4-8 M/SHIT			•	
			-						30 50	7-50 Dei 7 + Very D	nse Jense i	5-13 Stiff 5-30 V-Stiff	HOL	EN	<b>O</b> . 0	W-10

## INSTALLATION REPORT MONITORING WELL No. $\frac{W-II}{I}$



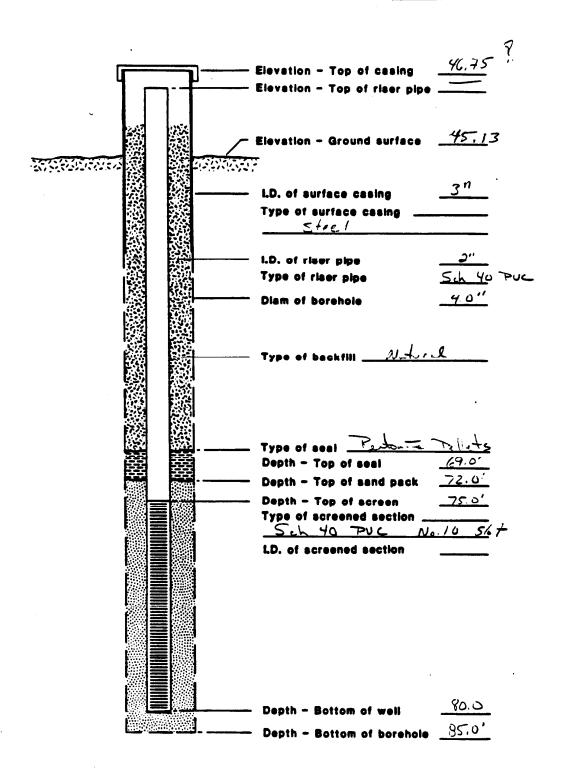
### **(G)**

#### GUILD DRILLING CO., INC.

	100 WATER STREET	EAST	PROVIDENCE, R. I	DATE
Weston Geo	physical Corporation	ADDRES	westboro, Mass.	HOLE NO. W-11
BOUECT NAME EC	onomic Planning Group	LOCATIO	Wohurn Mace	LINE & STA.
REPORT SENT TO	above		PROJ NO.	OFFSET
RAMPI FS SENT TO	Taken at Site		OUR JOS NO 86-163	SURF. ELEV.

24	MPLES SI	EN 10					W	Y JOB NO			O. C. CLEV.					
		IND WATER OBSE	RVATIO	NS			CASING	SAMPLER	CORE BAR.	٠	<u>Dore</u> 3/27/85	Tin	<u> 10</u>			
At	4'5"	after 12	Hour	s	Туре		HW	s/s		START 8		<del></del>		g.M.		
				- 1	Size i D.		4"	1-3/8"		TOTAL MES				. 9.M M. §		
At _		_ after	Hou	rs	Hommer	wı	300#	140#	BIT	BORING FOREI	MAN R. E	astv	1000	1		
					Hammer		24''	30"	————	INSPECTOR SOILS ENGR						
1	OCATIO	N OF BORING					Wood	ls								
			1.			-11								=		
DEPTH	Casing Blows	Sample Depths	Type		ows per ( Sample		Moisture Density	Strata		iTiFiCATION de color, gradatii	on. Type of	S	AMPL	E		
윷	per	From - To	Samole	From	<u> </u>	To	or	Change	soil etc. Rock-	color, type, condit	tion, hard-					
	foot						Consist.	Elev		ne, seams and el		-	Pen			
		0'-2'	D	16	13	10	Dry/m	2'		SAND & F.	Sand	1	24"	6"		
		2'-4'	D	7	16	20	dense Moist	2.		rse Gravel						
		~ ~	-		10	38	dense		same as			2	24'	18		
		4'-6'	D	32	15	62	Wet/v	i i	some si	IE		3	24"	10"		
						58	dense		•							
			ļ				}	7'6"								
					<del>                                     </del>	ļ							<b></b>			
		9'-11'	D	24	23	34		]	Brown fine	e Silty SAL	MD CDX	<del>,</del> –	24"	1 71		
						33	1	10'6"			······································	-	24	<del></del>		
			;		1		]			e to medium						
										Sand & Grav	vel &					
		14'-16'	ם	31	21	21	Wet		Silt			Į	24"	121		
			<u> </u>		<del>                                     </del>	16	dense		same	as above		-	24	-2		
l			<b>†</b>		· · · · · ·		1							_		
į																
								19'								
		19'-21'	D	24	21	22	"	ł		ty fine SAM		6	24"	<u>13"</u>		
			<del> </del>		<del>                                     </del>	19	1		trace of	fine grave	l	<b>  </b>		<del></del>		
			<b>†</b>		<del>†</del>	<del> </del>	1	22'6"						<del></del>		
							1									
1		24 -26	D	25	27	16	"			tum to coar		7	24"	12"		
					<del>                                     </del>	14	1			ne Sand & : Gravel & :		<b> </b>	$\vdash$	<b>—</b>		
			1		<del>†                                     </del>	_	1		Gravel &		CORLEG	┝─┤	$\vdash$	—		
									<b>0</b> 1_70 <b>2 u</b> .							
		29'-31'	D	6	8	12	Wet			aa ahawa		8	24"	8"		
			<del> </del>	<b> </b>	<del>                                     </del>	14	medium	]	34.IIE	as above				匚		
			$\vdash$			-	dense						-	-		
			<del>                                     </del>			<del>                                     </del>	1					┝─┤	$\vdash$			
		34'-36'	D	9	9	8	<b>"</b>					9	24"	5"		
						7		36'								
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			<del> </del>	<b></b> -	<del>                                     </del>	1	1	1		35' Monite	or Well	$\vdash$	$\vdash$	$\vdash$		
					1		1		2" PVC S	cn. 40			$\vdash \vdash$	<b>—</b>		
	GROUND	SURFACE TO _	341			USED .	HW"	CASING:	THEN	S/S to 36	V			-		
_	mple Tyl			ı	Proporti	ons Us		4010 Wt. x 3	O"fall on 2"O D.	Sampler	ı	SUMN	MARY	_ 		
	•	ored W=Washed		1	frace	01010		iionless Den -10 Loo:	Se Cohesive		Earth Hard Rock	Borin	9	<u> </u>		
		bed Piston - A:Auger V:Vo	ne Test	1	little some	101020	/0 IO-	-30 Med. De	ense 4-8	M/Stiff	Some		<u> </u>	9		
		rted Thinwall			and	35 to 50		-50 Den: + Very De		Stiff V-Stiff	HOLE	NO	W-	11		
7	OWN P21	S - EAST PROV		-			•		,	<del></del>	•					

### INSTALLATION REPORT MONITORING WELL No. $\omega$ -12



#### GUILD DRILLING CO., INC.

		LLING CO., INC. EAST PROVIDENCE, R. I.	SHEET 1 OF 3
TO West	on Geophysical Corp	ADDRESSWestboro_ Mass	HOLE NO
REPORT SENT 1	0above	LOCATION Woburn, Mass	OFFSET
		OUR JOS NO86=163	Dote Time
GROUND	WATER OBSERVATIONS	CARING CANDED CO.	Dote Time

		UND WATER OBSE		1			CASING	SAMPLER	R CORE BAR.	START 9/17/85		me	•
u	2'1"	_ after Com	P. Hou	75	Туре		HW NW	s/s	None	START 9/17/85 COMPLETE 9/18/85			- 9.1 9.1 9.1
				.	Size I D.		4" 3"	1 3/8		TOTAL HRS.	_		- 91
		_ after	Hou		Hommer	Wt	300#	140#		BORING FOREMAN R	Eas	two	ad
					Hammer		24"	30"	- BIT	INSPECTOR			
	0045:0									30.63 Cion.	===	_	=
<u> </u>	OCATIO	N OF BORING					Wood	<u> </u>					
₌│	Casing	Sample	Type	8	ows per	5''	Moisture	Strata	SOIL IDEN	ITIFICATION	Γ.	AMP	
E	Blows per	Depths	of	l	Sample		Density	Change	Remarks include	de color, gradation, Type of	L	AMT	LE
5	foot	From - To	Ботрю	From	6-12	To 1 12-18	Or Consist.	Elev	ness. Drilling tin	color, type, condition, hard- ne, seams and etc.	No	Pen	٦,
=	100	0'-2'	D	1	<del></del>	1		CIGA					_
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ŀ		2'-4'		<del>-</del>	-	┼	1		or silt &	tr. medium gravel		<u> </u>	L
ŀ		2 -4	D	-	2	₩.	- 1				2	24	<u>'</u>
ŀ		4'-6'	D	7	13	18	W/m/d				<u></u>	_	<u> </u>
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ı		14'-16'	D	3	3	4	"				5	24	ŀΤ
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H		29'-31'	D	3	4	7	-				<u></u>	<u> </u>	L
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t					t	<del>                                     </del>	1	221711			-		+
ŀ					<del>                                     </del>	<del>                                     </del>	1 4	33'6"			<b>├</b> ─	<u> </u>	1
t		341-361	7	7	-	2	<b> </b>		Brown fine	e to medium SAND,	-	├	╀
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T						<del>                                     </del>	1	37'	•	•	-	$\vdash$	╀
t					<u> </u>	<b>†</b>	1		Brown fire	to medium SAND,		-	⊢
t					<del>                                     </del>	<del>                                     </del>	1		tr. of sile	LO MEGIUM SAND,	-	$\vdash$	+
⅃						Ì	1		CT OT SIT	5	$\vdash$	-	┢
$\overline{}$	GROUND	SURFACE TO	81			USED	<u>&amp; 4</u> "c	ASING.	THEN ROlle	r bit to bottom			_

O-4 Soft 30 + Hard Rock Coring Samples 18
8-15 Stiff HOLE NO W-12 01010% 0-10 Loose 10-30 Med Dense 30-50 Dense 50 + Very Dense UP : Undisturbed Fiston little 101020% TP=Test Pit A=Auger V=Vone Test 201035% some UT=Undisturbed Thinwall and 351050% HOLE NO W-12

<b>(G)</b>

TO \_\_\_

#### GUILD DRILLING CO., INC.

100 WATER STREET

PROJECT NAME \_\_\_\_\_ REPORT SENT TO SAMPLES SENT TO

EAST PROVIDENCE, R. I.	DAIL
	HOLE NO
ADDRESS	LINE & STA.
OCATION	OFFSET
PROJ. NO	
OUR JOB NO86-163	SURF. ELEV.

GROUND WATER OBSERVATIONS		CASING	SAMPLER	CORE BAR.	Date Time
At After Hours	Туре				STARTPM
	Size I.D.				TOTAL HRS.
At after'Hours	Hammer Wt Hammer Fall			BIT	INSPECTORSOILS ENGR.

	Cosing Blows	Sample ~ Depths	Type of	on	Blows per 6" on Sampler		Density	Strata Change	SOIL IDENTIFICATION Remarks include color, gradation, Type of	S	AMP	LE
	per foot	From- To	Somple	From 0-6	6-12	To   i2-18	or Consist	Elev.	soil etc. Rock-color, type, condition, hard- ness, Drilling time, seams and etc.	No		
-		39'-41'	ם	8	9	15				10	24	2
t												
ŀ		44'-45'	D	8	9	18	W/1008	Note:	Running sand 4'8" inside pir	e 11	24	2
F			-						Brown fine to medium SAND			L
I						1	1		w/some fine gravel			
ł		49'-51'	D	4	10	16	W/m/d		Running sand	12	24	12
F			+			-	]					
l							1					
ł	<del></del>	541-561	ם	7	11	4	<u> </u>			13	24	7
ŀ			-	-		10	1				_	F
Ì							1	58'6"	·			İ
ł		59'-61'	D	16	14	9	} '	,,,,	Very coarse Brown SAND &	14	24	
ļ			_			10	-		fine sand &coarse gravel, trasilt & cobbles			F
						1						L
		64'-66'	D	40	22 .	26	<u> </u>			15	24	Ŀ
۱			+	-		48	1			-	-	╀
				1			1			F		1
		69'-71'	D	19	14	23	<u> </u>			16	24	1
			-	-	-	27	-				$\vdash$	F
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		74'-76'	D	19	14	23	- "			17	24	4
			_	┼	-	27	4	1	1	<u> </u>	├	╀

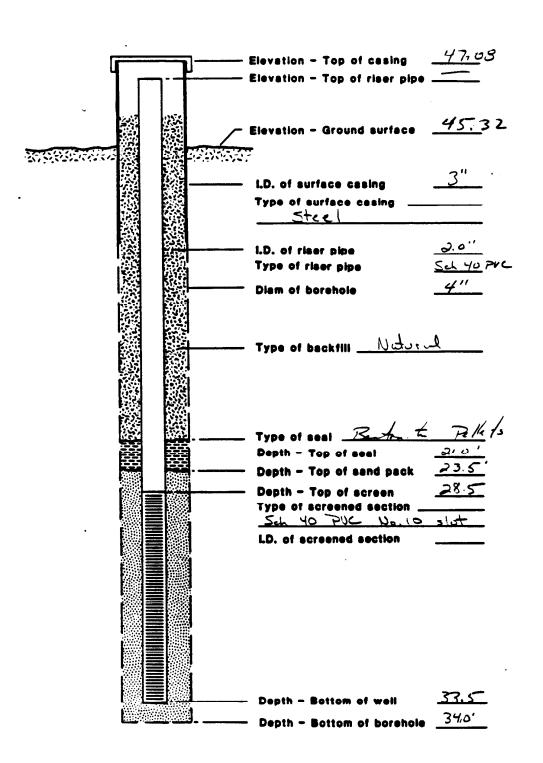
GROUND SURFACE TO		USED	"CASING: THEN	N	
Sample Type	Propor	tions Used		i on 2"O D. Sampler	SUMMARY:
D=Dry C=Cored W=Washed	trace	01010%	Cohesionless Density	Cohesive Consistency	Earth Boring
UP=Undisturbed Piston	little	101020%	O-IO Loose	0-4 Soft 30+Har	
TP=Test Pit A=Auger V=Vone Test	some	201035%	10-30 Med. Dense 30-50 Dense		Samples
UT=Undisturbed Thinwall	ond	35 to 50%	50 + Very Dense	8-15 Stiff	HOLE NO W-12



#### GUILD DRILLING CO., INC. SHEET 3 of 3

V	59/	•	100 \	WATE	R STREET	Ī	EAST PR	OVIDENCE,	RI	i	DATE			
	_										HOLE NO	W.	12	
											LINE & STA.			
		ME									OFFSET			
RE	PORT SEN	IT TO					PI	ROJ. NO			SURF. ELEV.			
SA	MPLES SE	ENT TO					O	UR JOB NO	86-163					
		IND WATER OBSE		I			CASING	SAMPLER	CORE BAR.	START	Date	_	<u>Me</u>	6.M
A! _	·	aft <del>er</del>	Hou	'5	Type					COMPLETE TOTAL HRS				_ \$.m
A1 _		_ ofter	Hou	rs	Size I D. Hommer	Wt			BIT	BORING FOR	EMAN	_		
					Hammer	Fall				SOILS ENGR				
L	OCATIO	N OF BORING							•					
<b>—</b>	Casing	Sample	Type	e	lows per (	5"	Moisture	Strata	SOIL IDEN	NTIFICATION			AMP	ı F
E	Blows	Depths	of	01	n Sample	f	Density	Change	Remarks inclu	de color, grada	tion, Type of	L_		
ОЕРТН	per (oot	From- To	Somple	Fron	6-12	10 1 :2-18	Consist	Elev	soil etc. Rock- ness, Drilling til	me, seams and	etc.	No	Pen	Rec
	foot			_		1	CONSIST.	Elev		•			-	
		79'-81'	<del>  D</del>	60	123	157	W/v/d		Roller bit	to 851		18	24"	3"
							],,,,,		WOITEL DI					
						ļ	]	05.						lacksquare
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i			<del> </del>	<del> </del> -	+	<del>                                     </del>	1		Bottom	of Boring	3 85'	-	+	┿
							]		Installed	0 W @ 8'	ς 1			
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		SURFACE TO			-	USED		"CASING:	THEN					_
_	omple Ty	· ·				ions Us		1401b Wt.x 3 resionless De	50" fall on 2"0 D. naity I. Cohesive	Sampler Consistency	5~	SUN h Bor	MAR	<b>Y</b> :
	-	Cored W=Washer	9		trace little	0 to 10	%	0-10 Loc	se 0-4	Soft 30	1	k Cor		
₹	P=Test Pi	• A=Auger V=V	one Tes	•	some	201o3	5%	10-30 Med. D 50-50 Der		M/Stiff Stiff		ples		
	T - I ladice.	ched Though			004	35.46	∧o/. I 2	10 I Van 5		0.14	HOLE	. N/	1.5	1_10

### INSTALLATION REPORT MONITORING WELL No. Sw-12



PROJECT NAME J	GUILD 100 WATE Geophysical Cor Economic Plannis above Taken at Sign
GROUND W	ATER OBSERVATIONS  Comp. Hours

#### GUILD DRILLING CO., INC.

SHEET \_\_\_\_\_ OF \_\_\_\_ DATE \_\_\_\_ 100 WATER STREET EAST PROVIDENCE, R I HOLE NO. SW-12 ADDRESS Westhoro Mass Weston Geophysical Corp. LINE & STA. T NAME Economic Planning Group LOCATION Woburn, Mass OFFSET \_ T SENT TO\_\_\_ sbove PROJ. NO. -SURF. ELEV. \_ OUR JOB NO. -86-163 ES SENT TO \_\_\_ Taken at Site

	GROUND WATER OBSERVATIONS					CASING	SAMPLER	CORE BAR.	<u>0878</u>	<u> </u>			
A: _	1'10"	after	P•Hour	- 1	Type Size i D.		HWNW .	S/S 1_3/8"		START 9/19/85 COMPLETE 9/19/85 TOTAL HRS.			- 9.M. - 9.M. - 8.M.
At -		after	Hour		Hommer Hommer		300 <del>//</del> 24''	<u>140#</u> 30"	BIT	BORING FOREMAN R. INSPECTOR SOILS ENGR.	Eagi	woo	<u></u>
	OCATIO	N OF BORING				-		Woods					
ОЕРТН	Casing Blows	Sample " Depths	Type of	on	ows per 6	r	Moisture Density	Strata Change	SOIL IDEN	s	AMP	LE	
8	per foot	From - To	Sample	From 0-6	6-12	o 12-18	or Consist.	Elev.	ness, Drilling tir	color, type, condition, hard- ne, seams and etc.	No	Pen	Rec
Γ													
'					<b></b>		{			·			
1		No Samp	168						General d	lescription of soil	}	-	-
1							1		from wash	- Gray fine to			
l							ļ		medium S	SAND, fine to			
ļ							i		medium Gr	ravel, trace of	<b> </b>	_	-
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-	GROHNO	SURFACE TO _	34 1	L	l	USED	1 <u>4 </u>	CASING:	THEN Inet	alled O.W.			<u> </u>
1	<b>3</b> 770170	JUNE 10 _				いつにレ		CMSING	INGU THE	#77en A***			

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

Proportions Used 01010% trace ittle 10 to 20% some 201035% 351050% ond

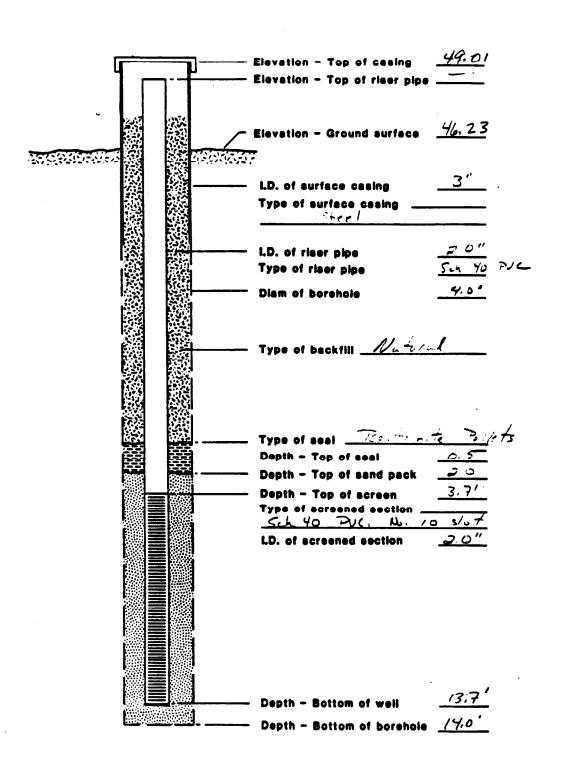
140 lb Wt. x 30" fall on 2"0.D. Sompler Cohesionless Density | Cohesive Consistency O-IO Loose IO-30 Med. Dense 30-50 Dense 50 + Very Dense

0-4 Soft 30 + Hard Rock Coring \_ 4-8 M/Stiff 8-15 Stiff 8-15 Stiff 15-30 V-Stiff

SUMMARY: Earth Borng 34 Samples \_ HOLE NO.SW-12

Date

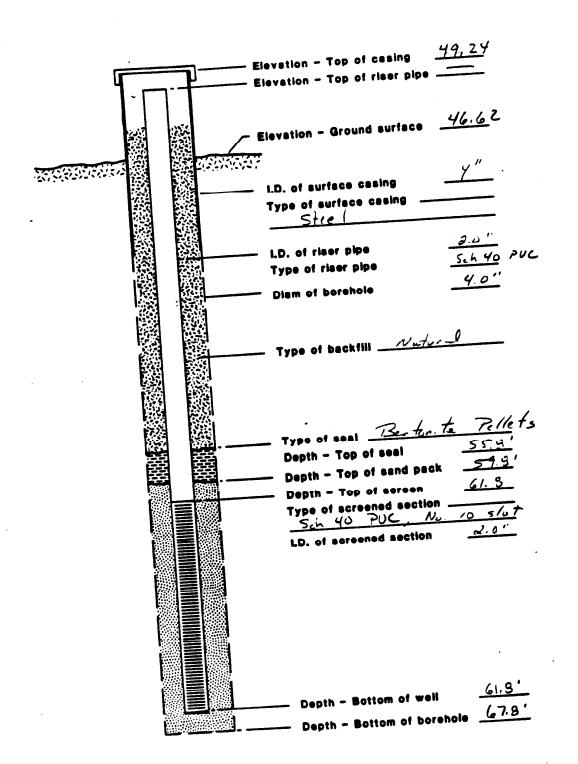
### INSTALLATION REPORT MONITORING WELL No. 4\omega-13



PI	ROJECT NA	GU  aton Geophys  ME Economic  IT TO	100 V	Cor nnin	P Groi		EAST PRADDRESS	OVIDENCE,  Westho  Wobur  ROJ. NO.	n, Mass		SHEET 1 DATE HOLE NO. C LINE & STA. OFFSET SURF. ELEV.	W-1;	3 •	
	J. 1. J.	und water obse	P-Hou	5	Type Size i D. Hommer Hommer		CASING HW 4" 300# 24"		ORE BAR.	TOTAL HR	REMAN _R_	Pasi		9.E.E.E.E.E.E.E.E.E.E.E.E.E.E.E.E.E.E.E
	LOCATIO	N OF BORING		L										
DE PTH	Casing Blows per foot	Sample Depths	Type of Sample	or	ows per 6	•	Moisture Density or Consist.	Strata Change Elev.	SOIL IDEN Remarks inclui soil etc. Rock- ness, Drilling tir	color, type , co	ndition, hard-		AMP	L <b>E</b> Rec
┢		No samples							General de	scriptio	n of			
			ļ				}	_	soil from	wash -				
	<u> </u>		-	-			1	4*-0"	Brown fine	e SAND, t	race silt	<del> </del>	_	╁
1									Gray fine	SAND, fi	ne gravel			
	ļ		<b> </b>			<b></b> -	-						_	—
ĺ							<b></b>	7'-6"				<del>                                     </del>	$\vdash$	$\vdash$
							]		Very coars	se Brown silt & co	SAND &			F
1							1							igspace
							<u> </u>						-	$\vdash$
			ļ					14'-0"	Bodd on ad	Danser -	1.1 O''			
	ļ .		-	├	<del>                                     </del>		1		Bottom of	poring 1	4 -0	_	-	$\vdash$
							]		Installed	2" PVC N	Monitor			
							1		well 18	• .				
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USED \_ GROUND SURFACE TO \_ "CASING: THEN <u>installed</u> well SUMMARY: 140tb Wt. x 30"fall on 2"O.D. Sampler Cohesionless Density | Cohesive Consistency Somple Type Proportions Used D:Dry C:Cored W:Woshed 01010% Earth Baring trace 0-IO Loose IO-30 Med. Dense 30-50 Dense 50 + Very Dense 0-4 Soft 30 + Hard Rock Coring Samples Somples HOLE NOOW 10 10 20% UP=Undisturbed Piston little TP=Test Pit A=Auger V=Vone Test 201035% some HOLE NOW-135 UT=Undisturbed Thinwall 351050% and

# INSTALLATION REPORT MONITORING WELL No. $\frac{W-13}{}$





#### GUILD DRILLING CO., INC. SHEET \_\_\_ or 2\_

O			100 V	WATER	STREET	,	EAST PR	OVIDENCE	, R I.			HOLE NO.				
TO	Wes	ton Geophy	aical	Cor	D	14	ADORESS	Westbo	ro Mar			HOLE NO. 7	ON-	<u> </u>	2	
PR	OJECT NA	ME Economi	c Pla	nnin	g Gro	<u></u>	OCATION	Wohu	n, Mass			LINE & STA.				
RE	PORT SEN	IT TOb	ove_				PI	ROJ. NO				OFFSET				
ŞA	MPLES SI	ENT TOTak	en et	Sit	•		<u></u>  0	JR JOB NO		86-163		SURF. ELEV.			_	
	GROU	UND WATER OBSE	RVATIO	NS			CASING	SAMPLER	CORE	BAB		Date		me.		
A+ '	3*-9*	ofter_CO	سماخت ۱۳۵۵	. 1	_			s/s			START	10/10/85			5.M	
~ _	<i></i>	- UIII	41001		Туре		HW NW 4" 3"		_		COMPLETE	10/14/85	. —	\$3		
A1 _		_ after	Hou	1	Size i D		300#	<u>1-3/8</u> _140#			BORING FOR	Eman <u>R</u>	Eas	Eastwood		
41 -					Hommer Hommer	Fall	24"	30"			INSPECTOR					
				L											=	
	OCATIO	N OF BORING	7					_					==		=	
E	Cosing Blows	Sample Depths	Type	Bio	ows per E Sample	\$'' !	Moisture	Strata			TIFICATION	ition, Type of	s	AMPL	E	
DEPTH	per	From - To	Somole	From	1	ro	Density or	Change	soil etc. i	Rock - c	color, type, con	dition, hard-	-	T. T		
۵	foot			0.6			Consist.	Elev.	ness, Dritting time, seams and etc.					No. Pen Re		
	ve	0'- 2'	3	3	4	l	1	l .		m to fin	e SAND,	11_	24"	24"		
	- 7t M	2'- 4'	4	1	6			Trace a	silt		·	<u> </u>				
	ing	2 4.	D	5	+	0	1	4"-0"					2	24"	15"	
Sp	<del></del>	4'- 6'	D	9	12	6	<u> </u>	1 -	Grav f	ine S	SAND, tra	ce silt	13	241	10"	
	<del>)</del> "			8			I		& fine		-					
Ca	ing						1	1		Dr	· <b></b>					
	<b></b>		ļ				ļ	8'-6"					<u> </u>	$\sqcup$		
	<u> </u>	9'- 11'	D	48	51	49		<del> </del>	Conservation		coarse SA	NTD 0.	14-	24"	7511	
	<b></b>	9 11.	1 "	43	71	49	}	į	gravel		Contrac on	מוז כי	<del>-</del>	24	73	
			1	1			1	1	81					$\vdash$		
							1							† †		
		14"-16"	D	40	17	25	]	1					5	241	14"	
				24			ļ							$\Box$		
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	<u> </u>		+	<del>                                     </del>	├	-	1						-	╁		
			<b>†</b>	1	1		1							+	-	
		19'- 21'	Į.	10	17	16	1	1					6	241	8"	
				18			]	1								
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	<b> </b>	24 - 26 -	<del>  D</del>	32	13	13	1	İ					1-	24	9"	
				11			1						<b>-</b>			
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			<b></b>	ļ		-	4	1	1					$\Box$		
	<del> </del>	29'-31'	D	12	12	18	1						R	24		
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	<b></b>	34"-36"	<del>  □</del>	59 13	51	12	1	1					19	24	10"	
		<del>}</del>	+ -3	<del> </del>	$\vdash$	1	1				•	-	╁┈┤	H		
		†	1	t —		<del>                                     </del>	1		1					<del>                                     </del>	$\vdash$	
							<u> </u>	39'-0"			roller	bit	工			
		39'		sal					BOULDE				ĪΟ	O.	0	
_		SURFACE TO _	57	<u>'6"</u>	_			"CASING:	THEN _C						_ 7	
	omple Tyl	pe Ored Wilkoshed	1	ı	Proporti	ons Us OtolO		140 lb Wt.x 3 esionless De	30" fall on 2 nativ 1 Coh	2"O D.	Sampler Consistency	6	SUMMARY: 16"			
		rbed Pision	,		troce little	101020	%   (	0-10 Loc	150	0-4		+ Hard Roo	k Cori	t Coring 10°		
T	P= Test Pil	A:Auger V=V	one Test			201035	۱۱ اره	0-30 Med. 0 0-50 Dei	ense .	4-8 8-15	M/Stiff Stiff	Sar	nples .	12		
U	T = Undistu	rbed Thinwall			and	35 to 50	%   3	O + Very D		15-30	Stiff V-Stiff	HOU	) OW-	-13-		

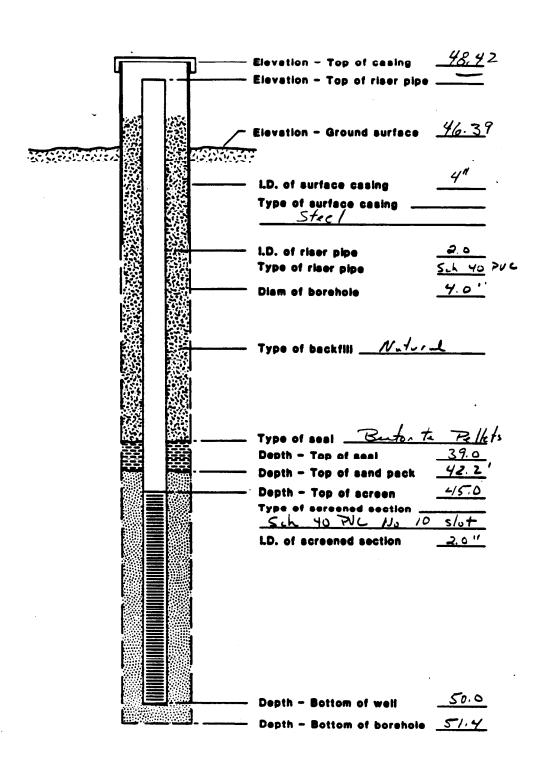


### GUILD DRILLING CO., INC. 100 WATER STREET EAST PROVIDENCE, R I

SHEET \_\_\_ 2 \_\_ 0F \_2

		•	100 V	WATE			EAST PRO	DVIDENCE,	R I.		HOLE NO.	<del></del>	<u> </u>	$\exists$
TO	Wes	ton Geophys	ical	Cor	р	^	DORESS	_Westho	ro Mass	i	LINE & STA.			
PR	OJECT NA	ME Economic	Pla	nnir	g Groi	1 <del>p.  </del>	OCATION	WODUT	n, Mass		OFFSET			
FTE.	PORT SEN	T TOabc		511	-		PK	UJ. NU R JOB NO	63	SURF. ELEV				
3~											Dere	Time	_	─-{
	GROU	NO WATER OBSE	RVATIO	NS			CASING	SAMPLER	ORE BAR.	START				1.0
At _		_ after	Hou	/s	Туре		HW .			COMPLETE				A
				•	Size i D		4"	<del></del>		TOTAL HRS.		P		
A1 _		_ ofter	Hou	rs	Hommer		300/		. BIT	BORING FOR		LASEV	DOG	
					Hammer	Fall	24"			SOILS ENGR.			_	
ι	OCATION	OF BORING												
	Casina	Sample	Type	В	lows per 6	,н	Moisture	Strata		ITIFICATION		SAI	MPLE	
DEPTH	Blows	Depths	of		n Sample		Density	Change	Remarks included soil etc. Rock-(	de color, grada:	tion, Type of	34"	MP LE	
8	per foot	From - To	Sample	From O-6	6-12	12-18	Consist.	Elev.	ness, Drilling tin	ne, seams and	etc.	No. P	en R	₹ec
	100.	39"- 44"	C	-	DERS		***************************************		Cored BOUL	DERS from	30,-77,		十	
		<u> </u>	-	001					Boulders f	rom 1'-8"1	o 2'-3"			
							]	ļ			•		$\Box$	
					1	ļ	l			ller bit 1	hhanes et	igspace	4	$\dashv$
		44'- 51'	Rol	Ler	Bit		ł			44' to 51		<del>                                     </del>	+	
				<del>                                     </del>	+	<del>                                     </del>	1		DOUTGELS	<del></del> 60 71	. <del></del>	-	+	$\dashv$
٠			<del>                                     </del>	<b>†</b>	1		1						寸	一
							1		ļ				$\Box$	
													$\perp$	
		51'- 52'		15		<b></b> _	}		Gray very			11 1	<u>2''</u> ]	<u>6"  </u>
			<u></u>		)0# wt.		1		SAND & gra	vel & s11	ty Till	-	+	$\dashv$
			<del>                                     </del>	<del>                                     </del>		-	1		ļ				十	$\dashv$
	·	@ 514 *	Ref	sal	l -roller		}		Roller bi	t through	boulder		工	$\Box$
					<u> </u>		Į		3				_	
		56'-56'-6					1	< 11		dense &		12	67	6"
		@57'6" re	IUS	LL W	LOTT	r ol	Imin/ft	157 <b>'-6</b> "	Very massive Gray GAHERO DIORITE interbedded with			C1 6	- n	1.0
	<u> </u>	62'6"	+ -	╁	†		1 5	1				1	*+	<del>"</del>
							5 5 4 <del>1</del>							
		72171	1	<u>.                                    </u>			42			Quartz & Granite @61'-3" seam - lost 90%				$\Box$
	<u></u>	62'6"-	<u>c</u>	<del>↓</del>		<b></b>	5			t 90% or	C5 (	<u>,0,1</u>	48	
	<b></b>	67 <b>'</b> 6"	+	╁┈	<del> </del>	<del>}</del>	5	1	water			1-	十	$\dashv$
	·			<u> 1</u>			5 5 5						コ	
							5	ļ					_	
	<b></b>		<del>↓</del>	┼—	<del></del>		5	67'-6"	<u> </u>			┶┈┼	-	$\dashv$
	<b> </b>	<del></del>	<del> </del>	+	+	<del> </del>	┪	1	Bottom of	-		<del>                                     </del>	$\dashv$	-1
	<b></b>		+-	+	+		1		Note: Lose			-	一	
							1		Econo shoe		ined a		コ	
							]		HW-4" Driv	re Shoe.			_	
			-	+	+		4	1	70° Mor	itor well	- 2"PVC-	╺┾╾╾┿	$\dashv$	
			+	┿	+	+	4		'			-	┪	
							]		İ					
							]							
			1	1	1	1	4	1						
	680::5:5	SUDSTACE 50					1	"646:45:	THEN					
•	_	SURFACE TO _			– Proport	USED		"CASING:	THEN 30" fail on 2"0 D.	Complex	· · · · · · · · · · · · · · · · · · ·	SUMM	A 6 V	<u>-</u>
	omple Tyl	ored Walkashed	1		trace	eu enoi OtolO		isionless De	naity   Cohesive	Consistency		th Boring		
U	P = Undistu	rbed Fision		1	little	10 10 20	%	0-10 Los 0-30 Med. (		Soft 30 M/Stiff		k Coring	;	
		r A:Auger V:Vi rbed Thinwall	one Tes	'	some	201035 35105	5% 30	0-50 De	nse 8-15	5 Stiff	مستسلسو	E NO		<u> </u>
•	, , - Undistu	.neg imm <b>en</b>		1	ond	J310 D	U70   39	O + Very D	.euze ( 12.3	O V-Stiff	Inou	. IAO	J # = .	+3-4

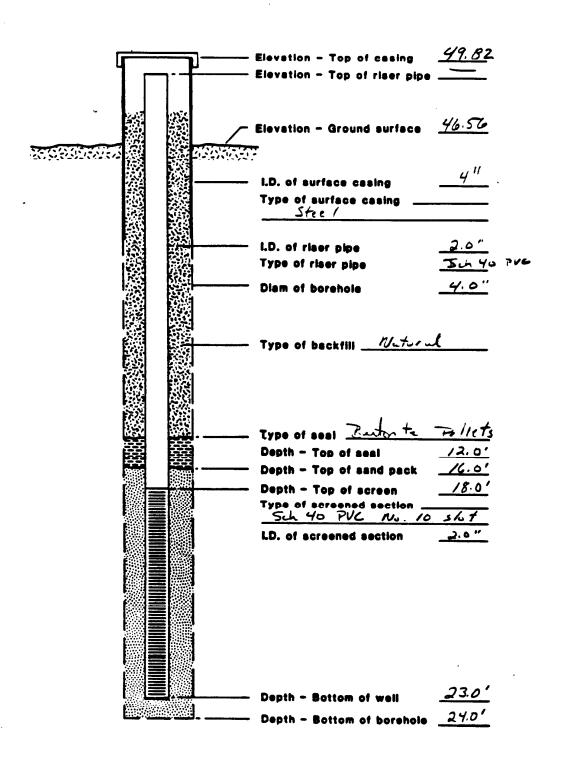
# INSTALLATION REPORT MONITORING WELL No. <u>Cw-/3</u>



PR(	Wes	ton Geophy ME Economi T TOab	100 V sical c Pla	VATE Cor nuir	R STREET	<u>.p</u>	EAST F ADDRESS LOCATIO	PROVIDENCE,  Westho  Wobut  PROJ. NO.	n, Mass	63	DATE HOLE NO.3 CLINE & STA. OFFSET SURF. ELEV.			
A1	3'-4"	after COX  after COX  ofter	TP Hour	' <b>s</b>	Type Size i D. Hammer i Hammer		CASING HW 4" 300# 24"	SAMPLER	CORE BAR.	START COMPLETE TOTAL HR BORING FOI INSPECTOR SOILS ENGI	S. REMANR	_	me Woo	9.M 9.M
ОЕРТН	Casing Blows per foot	Sample Depths From- To	Type of Sample	0	iows per 6 n Sampier n T		Moisture Density or Consist.	Strata		color, type, co			AMPL Pen	
		No sample						30 <b>'-</b> 6'	General des from wash Brown mediu gravel, so  Boulder Le Gray fine silt, cob till  Bottom of	m coarse ome silt ayer to media bles, box	s SAND & &cobbles			
									53° Monit	or Well	- 2" PVC			

GROUND SURFACE TO 50°	USED	CASING: THE	N installed well	
Sample Type	Proportions Used	1401b Wt. x 30" fol	ll on 2"O D. Sampler	SUMMARY:
D:Dry C:Cored W: Noshed	trace 0 to 10 %	,	Cohesive Consistency	Earth Borng 501
UP=Undisturbed Piston	little 10 10 20%	0-10 Loose		Rock Coring
TP=Test Pit A=Auger V=Vone Test	some 201035%	10-30 Med. Dense	1	Samples
UT=Undisturbed Thinwall	and 35 to 50%	I JU-DU DENSE	8-15 Stiff	HOLE NO W13-C

### INSTALLATION REPORT MONITORING WELL No. $S\omega$ -13





		GU			DRI STREET			<b>CO.</b> DVIDENCE,	, INC.		SHEET 1	13		1
TO	Wes	ton Geophys	ical Pla	Corp	g Grou	<u> </u>	ADDRESS	Westho	ro, Mass		HOLE NO			
RE	PORT SEN	T TOabc	ve			•	PR	OJ. NO	06.1	<u> </u>	OFFSET			
SA							100	R JOS NO	86*1	3	Date	Ťir		
u <u>N</u>		JND WATER OBSE	Hour	<b>s</b>	Type Size i D		HW 4"	SAMPLER	CORE BAR.	START COMPLETE TOTAL HR	10/19/95 10/19/95			3333 3333
\f _		_ after	Hou	1	Hommer Hommer		300# _24''		BIT	INSPECTOR SOILS ENGA			300	
l	OCATIO	N OF BORING	-											
ЕРТН	Casing Blows per	Sample Depths From - To	Type of Somble	on	ows per 6 Sample:	r	Moisture Density or	Strata Change	Remarks inclui soil etc. Rock-	color, type, col	ndition, hard-		AMPL	
<u> </u>	foot						or Consist.	Elev	ness, Drilling tir			-		Rec
		01- 21	D	5	2	3	<u> </u>	21-0"	Dark brown SAND. some		to fine	1	24"	14"
		2'- 4'	D	2 6	2	3		3'-6"	Brown med:	ium to fi	ne SAND,			15"
		4'- 6'	D	14 18	10	12			Gray fine	SAND, trac	e silt	3	2), "	13"
		6' <b>-</b> 8'	D	18 32	20	30		8"-0"				4	2L*	19"
		8°- 10°	D	24	39	35			Gray-brown	medium t	o coarse	5	24'	19"
		10'-12'	D .	39 21 36	22	30			SAND & gra	vel, some	e silt	6	241	18"
		12"-14"	D	31 49	37		]					7	24	17"
		14'-16'	D	20 13	14	15		16°-0°				8	24	9"
									Gray-brown SAND, some gravel & s	fine to				
						<del> </del>	<del> </del>	25*-0*	Bottom of	Boring 2	51-0"		┢	├─
							1							
									Installed Well	2" PVC 1	Monitor			
							]							
		ļ	-	<del> </del>	<u> </u>	<del> </del>	4						lacksquare	<del> </del>
							1		}					$\perp$
													$\vdash$	1
	<b></b>		t	1		1	†					-	+	+
							7					F	F	厂
_	GROUND	SURFACE TO _	2	51		USED .	4	"CASING:	THEN INST	alled wel	T .	<u></u>		<del></del>

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

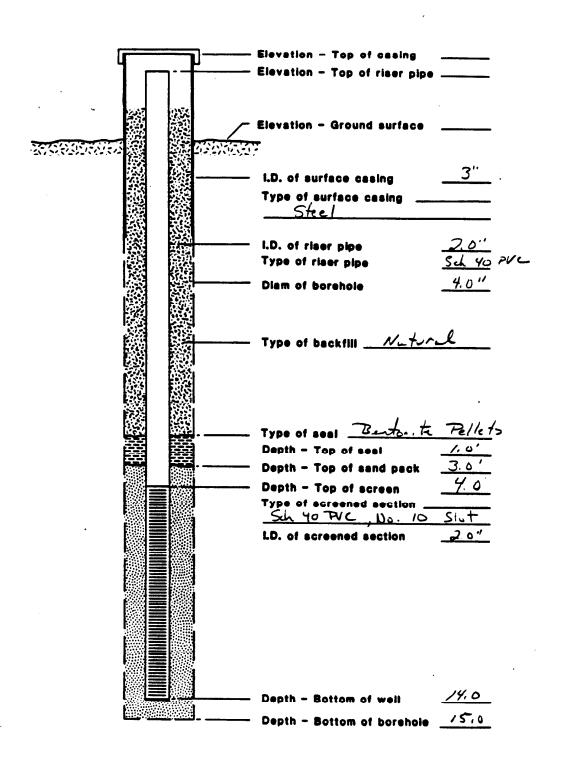
Proportions Used trace 01010% 101020% httle 201035% some ond 351050%

140tb Wt. x 30"fall on 2"0.0. Sampler Cohesionless Density | Cohesive Consistency O-IO Loose IO-30 Med Dense 30-50 Dense 50 + Very Dense

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

SUMMARY Earth Borng 251 30 + Hard Rock Coring B Samples \_\_\_ HOLE NOOWB-M

### INSTALLATION REPORT MONITORING WELL No. <u>66-14</u>

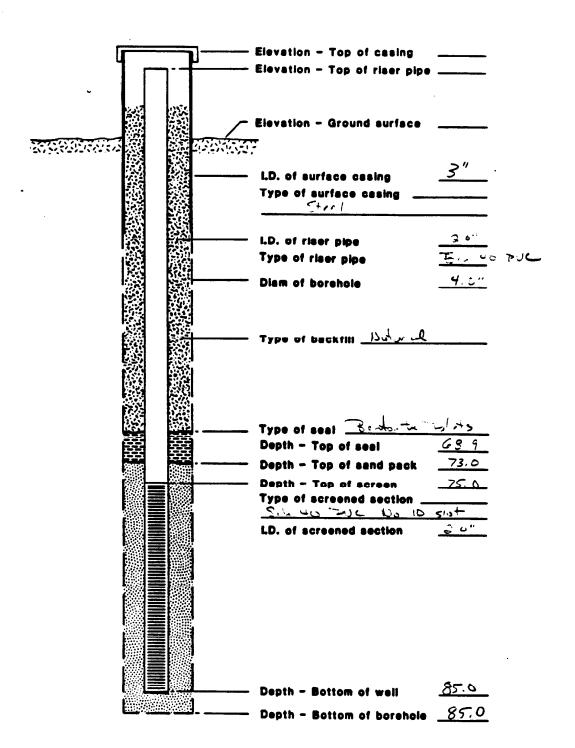




### GUILD DRILLING CO., INC.

C	<b>3</b> )	GU							., INC.	,	SHEET 1	-14	of _	4
•	Waata	n Georbusi			E STREET			JVIDENCE. Wast	, R. I. <mark>:boro, Mass</mark>		HOLE NO.	Res -	4	
PR	OJECT NA	ME Economic	Plan	ning	Grow	ا ـــــ	OCATION	Wobu	rn. Mass		UNE & STA.			
		T TOAb						0J. NO. —— RJOB NO.	86-163	<del></del>	OFFSET			$\dashv$
<u> </u>		IND WATER OBS									Dete	Tim		
Δ.	UHU						CASING	SAMPLER NONE		START	11/15/8	5	_	3.5
_	<b>`</b>	Ground	. 1001		Type Size I D.		HW 4"			COMPLETE	<u> 11/15/8</u>	5		£A.
At _		_ after	Hou		Hammer	Wt	300#		BIT	BORING FOR	EMAN R. F	- F-12	ood	_
					Hammer		24"	- 177		SOILS ENGA			=	
	OCATIOI Casina	Sample	Type	8:	ows per 6		Moisture	ove HW						
DEPTH	Blows	Depths	of	or	Sample	r	Density	Strata Change	Remarks include	ITIFICATION de color, grade	ation, Type of	SA	MPU	E
씸	per foot	From- To	Sample	0-6	6-12	12-16	or Consist.	Elev.	soil etc. Rock-iness, Drilling tir	color, type, cor ne, seams and	dition, hard- letc.	No	Pen	Rec
										<u> </u>	<u>-</u>		コ	
		No Samp1	ds		-				General de	scription	of soil fine SAN		┵	
		•							trace of		IIIE SAN		二	
												$\vdash$	-	
-			-									$\Box$	$\dashv$	
									·				$\dashv$	
			1										$\dashv$	
			+									$\Box$	$\dashv$	
			-					15'						
		!	_		<del> </del>				Bottom	of Borin	g 15'		-	
											_		二	
									Installed @ 18'	2" Sch 4	O PVC O.W	-	$\dashv$	
			+										二	
												-	$\dashv$	
			1										$\exists$	
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												$\vdash$	$\dashv$	
	GROUND	SURFACE TO _	151			HEER	4 "	CACHE	THEM	7				
Sa	mple Typ	•		ī	Proportio	-	d	CASING:  40 6 W1. = 3	10" felt on 2" 0 D	<u>Installed</u> Sompler	1	SUMM		<u>-</u>
		ored W=Washed bed Piston	ŀ		trace little	010109	% Cohes	ionless Der -10 Loo	se Cohesive	Consistency Soft 30	1 -	Boring Coring	I	5'_
TP	* Test Pit	A:Auger V:Ve	one Test		some	201035°	% 10	-30 Med. D	ense 4-8	M/Stiff Stiff	Som	pies		
•	~ wroistuf	ped Thinwall		1	and	35 to 50	70   50	+ Very D	ense   15-30	V-Stiff	HOLE	NO.	W	14-5

## MONITORING WELL No. W-14





PR	DJECT NA	on Geophysi  MECONOMIC  NT TOAb  ENT TOT	100 cal ( Plan	WATE Corpo mins	R STREE Pratio C Grou	T D	EAST PRO ADDRESS - LOCATION -	OVIDENCE West Wobu	boro. Mass		DATE	W14	<u>a</u>	
a _ To		UND WATER OBS	ERVATIO	ONS rs	Type Size I.D. Hammer Hammer	Wt	CASING HW NW 4" 3" 300#	SAMPLER _S/S _ 1 3/8' _140# _30"	CORE BAR.	START COMPLETE TOTAL HRS	Dore 11/8/85 11/15/85	<u> </u>	me	9.77 9.77 9.77
T	Casing Blows	Sample Depths	Type		lows per (	5"	mp - Dro Moisture Density	Strata		ITIFICATION	tion Tune of		AMP	LE
DEPTH	per foot	From- To	Somple	From 0-6	6-12	To   :2-18	l or	Change Elev.	soil etc. Rock- ness, Drilling tir	color, type, cond	dition, hard-	No	Pen	Rec
		0'-2'	D	1	1_	1	W/loose		Dark brown Brown fine			1	24"	L8''
		2'-4'	D	1	2	5	"		Brown fine	SAND, tr.	of silt		24"	
		4'-6'	P	6	9	13 16	W/m/d					3	24"	16"
ļ		9'-11'	ם	1	2		W/loose					4	24"	14"
ļ			·:			2								
ŀ		14'-16'	D	2	3	4	••					_	24"	10"
ſ						4								
ŀ										•				
		19'-21'	D	1	3	5	. "					6	24"	14"
E								! !				·		
ļ		24'-26'	D	3	5	5	t1					7	24"	0
						4								
ļ		29'-31'	D	9	14	16	W/p/d		Ducem Edna	SAND Am		_	0/1	3 5 11
F						14	w/m/a		Brown fine	SAND, TT.	1114	8	24"	13
		34'-36'	D	4	7	12 18	"					9	24	12
ŀ								37'	Very coarse	brown SA	ND &			
									gravel (	cobbles,	silt			
Sai D: [ UP TP	nple Typ Ory C=C Undistur Test Pit	SURFACE TO _ De Ored W=Washed bed Piston A=Auger V=Ve Ded Thinwall	r		some		% Cohes % 0- % 10- % 30-	40 lb Wt.x 3 ionless Den 10 Loot 30 Med. De	O"fall on 2"O D. : sity   Cohesive   se	Consistency Soft 30 - M/Stiff		Borin Corin	رو 🗗	15' 15

TOWN PRESS - EAST PROV.

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	OJECT NA	AME			
		ENT TO			
	GRO	UND WATER OBSE	RVATIO	NS	
At _		after			Type Size
			•		Hom
	OCATIO	N OF BORING			
DEPTH	Casing Blows per	Sample Depths" From - To	Type of Sample	From	
_	foot			<u> </u>	6
		39'-41'	D	60	93
	<u> </u>				t
		441-461	D	52	21
				<del></del>	1
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			<u> </u>		<del> </del>
		49'-51'	D	16	8
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DATE \_\_\_\_ TREET EAST PROVIDENCE, R I HOLE NO. \_\_\_ \_ |ADDRESS \_\_ LINE & STA. \_ \_ LOCATION \_ OFFSET \_ SURF. ELEV.\_\_

SHEET \_\_\_\_ 2 \_\_ OF \_\_ 3

					Data	
GROUND WATER OBSERVATIONS		CASING	SAMPLER	CORE BAR.	Dore START	Time e.m
At after Hours	Туре				COMPLETE	
At after Hours	Size i D.  Hammer Wt  Hammer Fall			BIT	TOTAL MRS. BORING FOREMAN INSPECTOR SOILS ENGR.	
LOCATION OF BORING						

					Hammer	ruii			Soils Engr			
L	OCATIO	N OF BORING										
Erin Erin	Casing Blows per	Sample Depths" From- To	Type of Sample	From	ows per i Sample	er To	Moisture Density or	Strata Change	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc. Rock-color, type, condition, hard-		AMP	_
_	foot			0-6	6-12	1 :2-18	Consist.	Elev.	ness, Drilling time, seams and etc.	No	Pen	R
		39'-41'	D	60	93	27	W/m/d		Very coarse brown SAND &	10	24"	13
I						14			gravel & cobbles, silt			Ť
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		44'-46'	D	52	21	9	W/m/d		Brown medium to coarse SAND	411	54"	1,
- 1			1		<u> </u>	12		ŀ	gravel, some silt & cobbles			۲,
- 1			1				1	ļ	siever, some silt a condies	$\vdash$	<del>                                     </del>	╁
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		49'-51'	D	16	8	17	] "			12	24"	1
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		59'-61'	D	5	10	13	W/m/d			14	24"	1
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		64'-65'6"	D	120	*49	*19	ł	İ	Very dense fine to medium	15	18"	1
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١			<del></del> -	<del> </del>	<del> </del>	<del> </del>	ļ			<b> </b>	₩	4
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GROUND SURFACE TO		USED	"CASING: THE	EN
Sample Type	Propor	tions Used	1 140 lb Wt. x 30" fc	oll on 2"O D. Sampler
PDry C=Cored W=Washed	trace	01010%	Cohesionless Density	Cohesive Consisten
JP=Undisturbed Piston	little	10 to 20%	0-10 Loose	0-4 Soft
TP=Test Pit A=Auger V=Vane Test	some	20to35%	10-30 Med. Dense	4-8 M/Stiff

some 20to35% 30-50 Dense and 35 to 50% 50 + Very Dense UT=Undisturbed Thinwall

8-15 Stiff 15-30 V-Stiff

SUMMARY: Earth Boring \_\_\_\_ 30 + Hard Rock Coring Samples HOLE NOW14-D

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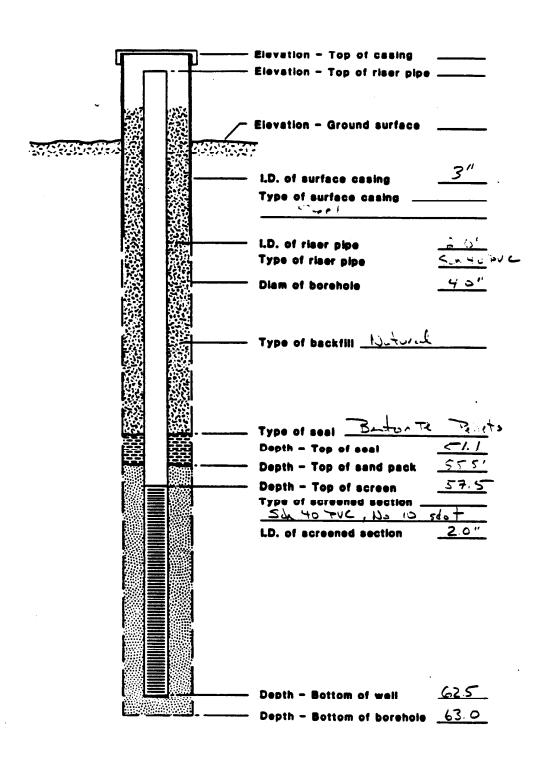
### GUILD DRILLING CO., INC.

	SHEET 3	OF 3
	DATE	
	HOLE NO	W14
_	LINE & STA.	

## COLOR   PROJ NO   PROJ	TC																
SAMPLES SENT TO												OSSEST					
GROUND SURFACE TO Proportions USED GROUND SURFACE TO GROUND SURFAC	RE	PORT SEN	IT TO					PR	OJ. NO		<del></del>						
OCCATION OF BORING  LOCATION OF BORING  E Casing Somple Type Sicus per 6' Density From To Somple Type Type Type Type Type Type Type Typ	SA	MPLES S	ENT TO					00	R JOB NO	86-163		ì					
AT Offer Hours Homer Will Hommer Will Hommer Foll Bird Solls ENOR.    Coang		GRO	UND WATER OBSE	RVATIO	NS			CASING	SAMPLER	CORE BAR.	START		_	_	e.m		
Al	At _		after	Hou	's	•				· ·	COMPLETE				3.M		
LOCATION OF BORING  Type			4.		- 1					• ——	BORING FOR	). Fman			-		
LOCATION OF BORING:    Cosing   Sample   Depths   of Boust per S   Somple   Depth   of Boust per S   Somple   Depth   of Boust per S   Somple   Depth   of Boust per S   Somple   Depth   of Boust per S   Somple   Depth   of Boust per S   Somple   Depth   of Boust per S   Somple   Depth   of Boust per S   Somple   Depth   of Boust per S   Somple   Depth   of Boust per S   Somple   Depth   of Boust per S   Somple   Depth   of Boust per S   Somple   Depth   of Boust per S   Somple   Depth   of Boust per S   Only   of Boust per S   Only   of Boust per S   Only   of Boust per S   Only   of Boust per S   Only   of Boust per S   Only   of Boust per S   Only   of Boust per S   Only   of Boust per S   only   of Boust per S   only	A1 _		_ atter	nou	rs					- BIT	INSPECTOR						
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Casing Sample Depths of	ı	OCATIO	N OF BORING					· ·									
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Sorues Superace TO  Sorues Superace TO  Sorues Superace TO  Sorues Superace TO  Sorues Superace To  Sorues	Ē				Of	n Sample	ŗ	1	1 1	Remarks include color gradation. Tv			j.				
Sorono Surface TO  Sorono Surface To  Sorono Surfac	핖		-	Somple	From			or	1 - 1	soil etc. Rock-	ndition, hard-						
B0'-85 C 5 5 Decomposed bedrock-very c3 5'5'  Bottom of Boring 85'  Denotes 300° wt.  Denotes 300° wt.  Note: 507 water loss while cring  Installed 2" Sch 40 PVC G 90  Installed 2" Sch 40 PVC G 90  Installed 2" Sch 40 PVC G 90  GROUND SURFACE TO USED "CASING: THEN  Somple Type  Dr.Dry Cricored w: woshed trope 01010/9% Consistence Denoting Consistence C		foot			0-6	6-12	12-18	Consist.	Elev.	ness, Drilling tir	ne, seams and	l etc.	No	Pen	Rec.		
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Bottom of Boring 85'  **Monte: 50% water loss while coring  Installed 2" Sch 40 PVC @ 90  Installed 2" Sch 40 PVC @ 90  GROUND SURFACE TO USED "CASING: THEN Summary Englishment State Outs On Sample Type  GROUND SURFACE TO USED "CASING: THEN Summary Englishment State Outs Outs Outs Outs Outs Outs Outs Outs								5	1 1	assive Gab	brodiorit	e inter-					
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Sample Type  Proportions Used   140 lb W1.x 30" fall on 2"0.D. Sampler   SUMMARY:  D=Dry C=Cored W=Washed   trace 0 to 10%   Cohesionless Density   Cohesive Consistency   Earth Boring    UP= lighter type   0.10   Loose   0.4 Soft 30.4 Hard   Rock Caring		<u> </u>		+		+		1	1 1	maraileu	z sciret	FVC G 90		igwdow			
Sample Type  Proportions Used   140 lb W1.x 30" fall on 2"0.D. Sampler   SUMMARY:  D=Dry C=Cored W=Washed   trace 0 to 10%   Cohesionless Density   Cohesive Consistency   Earth Boring    UP= lighter type   0.10   Loose   0.4 Soft 30.4 Hard   Rock Caring				+		+	<del> </del>	ł						igsquare			
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Sample Type  Proportions Used   140 lb W1.x 30" fall on 2"0.D. Sampler   SUMMARY:  D=Dry C=Cored W=Washed   trace 0 to 10%   Cohesionless Density   Cohesive Consistency   Earth Boring    UP= lighter type   0.10   Loose   0.4 Soft 30.4 Hard   Rock Caring								]				•					
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D=Dry C=Cored W=Washed trace 0 to 10% Cohesionless Density Cohesive Consistency Earth Boring	٠. د					Drannati						•			-		
UP = Underturbed Pieton   Settle 10 to 200/ 0-10 Loose   0-4 Soft 30 + Hord Rock Coring	_		_		1				19UID W1.x 3 signless Den	O fall on 2 O.D.	Sompler Consistency	5~"			<u>.</u> :		
								ه اي	-10 Loo	se 0-4				. —			

UP=Undisturbed Piston
TP=Test Pit A=Auger V=VoneTest
Thinwall some 201035% 10-30 Med. Dense 30-50 Dense ond 351050% 50 + Very Dense 4-8 M/Stiff 8-15 Stiff 15-30 V-Stiff HOLE NO. UT=Undisturbed Thinwall

## INSTALLATION REPORT MONITORING WELL No. CW-14





LOCATION OF BORING  Swamp - Drove HW casing  Swamp - Drove Hw casing  Swamp - Drove Hw casing  Swamp - Drove Hw casing  Swamp - Drove Hw casing  Swamp - Drove Hw casing  Swamp - Drove Hw casing  Swamp - Drove Hw casing  Swamp - Drove Hw casing  Swamp - Drove Hw casing  Swamp - Drove Hw casing  S
Casing Blows Depths of Depths Per From To Somple From To Got No Samples  No Pen Rec  O'-35'  Brown fine SAND, tr. of silt  No Samples  No Pen Rec  Sample Density Change Change Elev.  Sample Change Change Change Elev.  Sample Change Change Change Change Change Change Elev.  Samples  No Pen Rec  O'-35'  Brown fine SAND, tr. of silt  No Pen Rec  Samples  No Pen Rec  O'-35'  Brown fine SAND, tr. of silt  No Pen Rec  Samples  No Pen Rec  O'-35'  Brown fine SAND, tr. of silt  No Pen Rec  Samples  No Pen Rec  O'-35'  Brown fine SAND, tr. of silt  No Pen Rec  Samples  No Pen Rec  O'-35'  Brown fine SAND, tr. of silt  No Pen Rec  Samples  No Pen Rec  O'-35'  Brown fine SAND, tr. of silt  No Pen Rec  Samples  No Pen Rec  O'-35'  Brown fine SAND, tr. of silt  No Pen Rec  Samples  No Pen Rec  O'-35'  Brown fine SAND, tr. of silt  No Pen Rec  Samples  No Pen Rec  O'-35'  Brown fine SAND, tr. of silt  No Pen Rec  Samples  No Pen Rec  O'-35'  Brown fine SAND, tr. of silt  No Pen Rec  Samples  No Pen Rec  No Pen Rec  Samples  No Pen Rec  O'-35'  Brown fine SAND, tr. of silt  No Pen Rec  Samples  No Pen Rec  O'-35'  Brown fine SAND, tr. of silt  No Pen Rec  Samples  No Pen Rec  No Pen Rec  Samples  No Pen Rec  No Pen Rec  Samples  No Pen Rec  No Pen Rec  Samples  No Pen Rec  No Pen Rec  Samples  No Pen Rec  Samples  No Pen Rec  Samples  No Pen Rec  No Pen Rec  Samples  No Pen Rec  Samples
No Samples  O'-35' Brown fine SAND, tr. of silt  35' Very coarse brown SAND & medium gravel, some cobbles & silt  63' Bottom of Boring 63'
<del></del>

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

trace 01010% 101020% little some 201035% 351050%

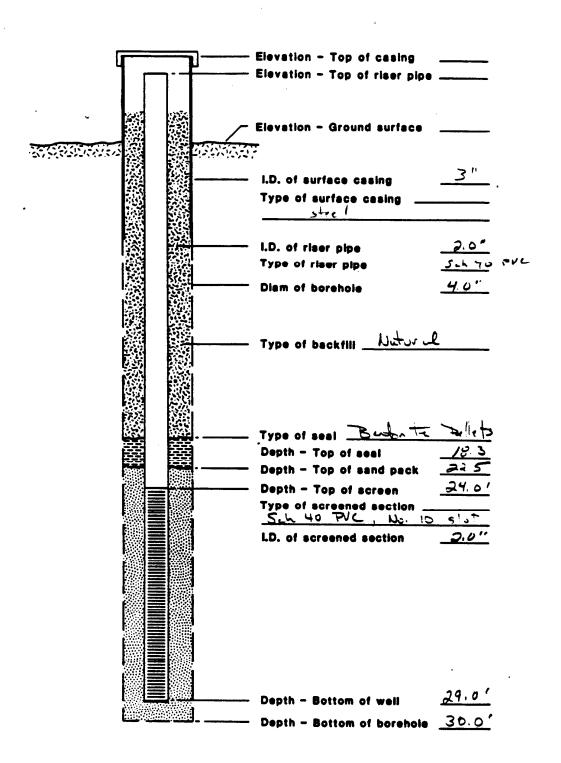
0-10 Loose 10-30 Med. Dense 30-50 Dense 50 + Very Dense

Cohesive Consistency
O-4 Soft 30 + Hard
A-8 M-/Shid4 0-4 Soft 4-8 M/Stiff 8-15 Stiff 15-30 V-Stiff

Somples \_\_\_\_\_\_

TOWN PRESS - MAST PROV.

### INSTALLATION REPORT MONITORING WELL No. Sω-14





### GUILD DRILLING CO., INC.

GUILD DRILLING CO., INC.  100 WATER STREET EAST PROVIDENCE, R I										SHEET OF						
TO	West	n Geophysic	al C	orpo	ratio	a	ADDRESS Westboro, Mass				HOLE NO. GW1465					
PR	OJECT NA	ME Economic	Plan	ning	Grou	ا	OCATION Woburn, Mass				OFFSET					
REPORT SENT TO above SAMPLES SENT TO Taken at Site							PI	ROJ. NO	86-163		SURF. ELEV.					
SA	MPLES SI	ENT TO	LKEN	AL S	III.		<u> </u>	UK JOB NO	- A0-183		Dore	Y				
	GRO	IND WATER OBSE	RVATIO	NS			CASING	SAMPLER	ORE BAR.	START	11/15/8			e.m		
At_		after	Hou	rs	Туре		HW	NONE		COMPLETE	00 10 - 1-			333		
10	p of G	rouna		1	Size I D.		<u>4''</u>			TOTAL HRS	3.					
At _		after	Hou	rs	Hommer	** 1	300# 24''		- BIT	HORING FOR	EMAN R. F	e t	tood			
				i	Hammer					SOILS ENGR	•					
l	OCATIO	N OF BORING				Swa	mp - D1	rove HW c	casing							
Ŧ	Casing	Sample Depths	Type		ows per 6 Sample		Moisture	Strata	SOIL IDER Remarks inclu	tion Tunn of	SAMPLE					
DEPTH	Blows per	From - To	Sample	From	. 1	Го	Density or	Change	soil etc. Rock-	dition, hard-						
0	foot			0-6	6-12	12-18	Consist.	Elev.	ness, Drilling til	ne, seams and	l etc.	No	Pen	Rec		
							ŀ									
		No Samples	<del> </del>		<del> </del>	ļ	ļ		General de	scription	of soil	├—				
									from wash	- Brown f	ine SAND,	<del>                                     </del>		<del>                                     </del>		
			ļ				l		trace of s	III & COD	Dies					
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							1							$\vdash$		
								30'								
			<del> </del>	-	-		ł		Bottom	of Borin	ıg 30'	<b> </b>	₩	<b>├</b> ─		
							1		Installed	2" Sch 4	O PVC	-	$\vdash$			
								Ì	0.W. @ 33'							
			├	<b> </b>	-	<del> </del>	1					<u></u>	<u> </u>			
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				<del>  </del>		<b> </b>	4		l							
GROUND SURFACE TO USED								"CASING:	THEN	Installe	d O.W.	<u> </u>		<u> </u>		
Sample Type Proportions Used								ied 1 i40th Wt.x 30"fall on 2"0.0. Somoles 1								
D=Dry C=Cored W=Washed trace 0 to ( UP=Undisturbed Piston httle 10 to 2							••	esionless Der 0-10 Loo	nsity   Cohesive	Consistency		Born		<u> </u>		
		Ded Piston A=Auger V=Va	ne Test	, }	ittle some	10 to 20 20 to 35	% I	0-30 Med. D	ense 4-8	M/Stiff Samples						
ľ		rbed Thinwall			end	35 10 50	_ I 9	0-50 Den 0 + Very De	156   8-15 ense   15-30	Stiff D V-Stiff	HOLE	NO	, WI	14-M		

# INSTALLATION REPORT MONITORING WELL No. 64-9

