

LOG OF BORING

Sheet 3 of 4

Name of Project: Louisiana Power & Light Company
Site "X", St. Charles Parish, Louisiana

For: Ebasco Services Incorporated, New York, New York

Boring No. B-67

Date 3 & 4 August 1971

(Cont'd)

Ground Elev. 12.55 Datum MSL Gr. Water Depth _____

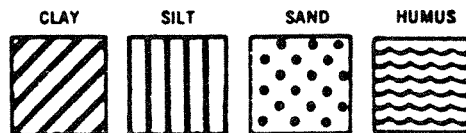
Sample No.	SAMPLE Depth — Feet		DEPTH STRATUM Feet		VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
	From	To	From	To			
44	103.5	105.0	102.0	107.0	Stiff gray silty clay w/silty sand lenses	20	44
45	109.0	109.5	107.0		Stiff gray clay w/silt lenses		$P = 0.65$
46	109.5	110.0			Ditto		$P = 0.65$
47	114.0	114.5			Ditto		$P = 0.70$
48	114.5	115.0			Ditto		$P = 0.70$
49	119.0	119.5			Stiff gray clay		$P = 0.80$
50	119.5	120.0			Stiff gray clay w/shell lenses		$P = 0.80$
51	124.0	124.5			Stiff gray clay		$P = 0.75$
52	124.5	125.0		128.0	Ditto		$P = 0.75$
53	128.0	129.5	128.0		Medium dense gray silty sand w/clay layers & shells	9	21
54	133.5	135.0		136.0	Ditto	7	21
55	139.0	139.5	136.0		Stiff gray clay w/sand lenses		$P = 0.65$
56	139.5	140.0		143.0	Ditto		$P = 0.65$
57	144.0	144.5	143.0		Very stiff greenish-gray & tan clay		$P = 1.45$
58	144.5	145.0			Ditto		$P = 1.45$
59	149.0	149.5		149.5	Ditto		$P = 1.35$
60	149.5	150.0	149.5	152.0	Very stiff gray & tan clay w/silt lenses		$P = 1.25$
61	154.0	154.5	152.0		Stiff gray clay w/silt lenses		$P = 0.85$
62	154.5	155.0		156.0	Ditto		$P = 0.85$
63	159.0	159.5	156.0		Medium stiff gray silty clay w/sandy silt layers		$P = 0.30$
64	159.5	160.0		162.0	Ditto		$P = 0.30$
					Continued		

DEPTH IN FT.

* Number in first column indicates number of blows of 140-lb. hammer dropped 30 in. required to seat 2-in. O. D. splitspoon sampler 6 in. Number in second column indicates number of blows of 140-lb. hammer dropped 30 in. required to drive 2-in. O. D. splitspoon sampler 1 ft. after seating 6 in.

WHILE THIS LOG OF BORING IS CONSIDERED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT ITS RESPECTIVE LOCATION ON THE DATE SHOWN, IT IS NOT WARRANTED THAT IT IS REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

Remarks: _____



Predominant type shown heavy. Modifying type shown light.

(Sheet #3)

Name of Project: Louisiana Power & Light Company

Site "X", St. Charles Parish, Louisiana

For: Ebasco Services Incorporated, New York, New York

Boring No. B-67

- Date 3 & 4 August 1971

(Cont'd)

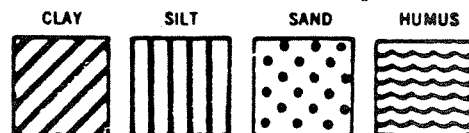
Ground Elev. 12.55 Datum M.S.L. Gr. Water Depth

Sample No.	SAMPLE Depth — Feet		DEPTH STRATUM Feet		VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
	From	To	From	To			
65	164.0	164.5	162.0		Stiff gray silty clay w/silty sand		P = 0.60
					layers		
66	164.5	165.0			Ditto		P = 0.60
67	169.0	169.5			Ditto		P = 0.65
68	169.5	170.0		172.0	Ditto		P = 0.65
69	174.0	174.5	172.0		Very stiff greenish-gray & tan clay		P = 1.35
70	174.5	175.0			Ditto		P = 1.35
71	179.0	179.5			Ditto		P = 1.35
72	179.5	180.0			Ditto		P = 1.35
73	184.0	184.5			Ditto		P = 1.25
74	184.5	185.0		186.0	Ditto		P = 1.25
75	189.0	189.5	186.0		Stiff gray silty clay w/sand lenses		P = 0.70
76	189.5	190.0			Ditto		P = 0.70
77	194.0	194.5			Ditto		P = 0.85
78	194.5	195.0			Ditto		P = 0.90
79	199.0	199.5			Ditto		P = 0.90
80	199.5	200.0		200.0	Ditto		P = 0.90
					NOTE: P = Penetrometer reading - shear		
					strength in tons per sq. ft.		

Number in first column indicates number of blows of 140-lb. hammer dropped 30 in. required to seat 2-in. O. D. splitspoon sampler 6 in. Number in second column indicates number of blows of 140-lb. hammer dropped 30 in. required to drive 2-in. O. D. splitspoon sampler 1 ft. after seating 6 in.

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Remarks: _____



Predominant type shown heavy. Modifying type shown light.

LOG OF BORING

Name of Project: Louisiana Power & Light Company

Site "X", St. Charles Parish, Louisiana

For: Ebasco Services Incorporated, New York, New York

Boring No. 68(5")Date 13 & 16 August 1971Ground Elev. 12.25Datum MSL

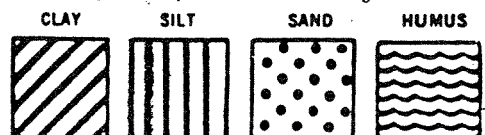
Gr. Water Depth _____

Sample No.	SAMPLE Depth — Feet		DEPTH STRATUM Feet		VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
	From	To	From	To			
1	2.5	3.5	0.0	3.5	Soft to medium stiff tan & gray silty clay w/clayey silt & clay layers	P: 0.35 T: 0.23	
2	5.0	6.0	3.5	7.0	Soft tan & gray clay w/silt pockets & silty clay layers	P: 0.25 T: 0.18	
3	8.0	9.0	7.0		Soft gray clay (flocculated)	P: 0.30 T: 0.23	
4	11.0	12.0		13.0	Soft gray clay w/roots & organic matter	P: 0.15 T: 0.15	
5	14.0	15.0	13.0	16.0	Medium stiff gray silty clay w/clay layers & pockets	P: 0.35 T: 0.25	
6	19.0	20.0	16.0	23.5	Medium stiff gray & tan clay	P: 0.40 T: 0.40	
7	24.0	25.0	23.5	27.0	Soft tan & gray silty clay w/clayey silt layers	P: 0.40 T: 0.15	
8	27.0	28.5	27.0	30.5	Medium dense gray silty sand	7 24	
9	30.0	31.5	30.5		Soft gray clay w/shell fragment layers	7 8	
10	34.0	35.0			Soft gray clay w/sand lenses & shell fragments	P: 0.20 T: 0.28	
11	39.0	40.0		41.0	Soft gray clay w/clayey sand & sand layers & lenses	P: 0.20 T: 0.25	
12	44.0	45.0	41.0		Medium stiff gray clay w/sand lenses	P: 0.25 T: 0.28	
13	49.0	50.0		52.5	Medium stiff gray clay w/silt lenses	P: 0.30 T: 0.35	
14	54.0	55.0	52.5	57.5	Stiff greenish-gray & tan clay w/silty clay layers	P: 0.90 T: 1.00	
15	59.0	60.0	57.5		Very stiff tan & gray clay (fissured) w/concretions	P: 1.40 T: 1.38	
16	64.0	65.0			Very stiff tan & gray clay w/silty clay & silty sand layers	P: 1.10 T: 1.12	
17	69.0	70.0			Very stiff tan & gray clay w/silt lenses	P: 1.40 T: 1.25	

*Number in first column indicates number of blows of 140-lb. hammer dropped 30 in. required to seat 2-in. O. D. splitspoon sampler 6 in. Number in second column indicates number of blows of 140-lb. hammer dropped 30 in. required to drive 2-in. O. D. splitspoon sampler 1 ft. after seating 6 in.

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Remarks: _____



Predominant type shown heavy. Modifying type shown light.

LOG OF BORING

Name of Project: Louisiana Power & Light Company

Site "X", St. Charles Parish, Louisiana

For: Ebasco Services Incorporated, New York, New York

Boring No. 68 (5")
(Cont'd)

Date 13 & 16 August 1971

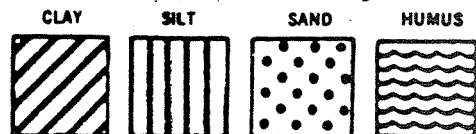
Ground Elev. 12.25 Datum MSL Gr. Water Depth

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*Number in first column indicates number of blows of 140-lb. hammer dropped 30 in. required to seat 2-in. O. D. splitspoon sampler 6 in. Number in second column indicates number of blows of 140-lb. hammer dropped 30 in. required to drive 2-in. O. D. splitspoon sampler 1 ft. after seating 6 in.

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Remarks: _____



Predominant type shown heavy. Modifying type shown light.

LOG OF BORING

Sheet 1 of 8

Name of Project: Louisiana Power & Light CompanyWaterford Steam Electric Station No. 3 - St. Charles Parish, LouisianaFor: Ebasco Services Inc., New York, New YorkBoring No. 69Date 10 & 11 Oct. 1972Ground Elev. 17.5 Datum MSL Gr. Water Depth

Sample No.	SAMPLE Depth — Feet		DEPTH STRATUM Feet		VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
	From	To	From	To			
1	0.0	1.5	0.0		Loose tan silty sand w/clay pockets	4	11
2	2.0	3.5		3.5	Ditto	2	5
3	3.5	4.0	3.5	4.0	Loose gray clayey silt w/trace of organic matter		
4	4.0	5.0	4.0	5.0	Soft to medium stiff gray silty clay w/trace of organic matter		
5	5.0	6.0	5.0	6.0	Loose gray clayey silt w/clay pockets		
6	6.0	7.5	6.0	7.5	Loose gray clayey silt w/silty sand pockets	1	2
7	8.0	9.0	7.5		Soft gray & brown clay w/few silt pockets	P = .2 T = .3	
8	9.0	10.0		10.0	Ditto	P = .2 T = .15	
9	10.0	11.0	10.0	11.0	Medium stiff gray & brown clay w/few roots & clayey silt pockets	P = .25 T = .3	
10	11.0	12.0	11.0	12.0	Soft gray clay w/clayey silt pockets & lenses and trace of clayey sand	P = .2 T = .1	
11	12.0	13.0	12.0		Medium stiff gray silty clay	P = .25 T = .1	
12	13.0	14.0		14.5	Ditto	P = .25 T = .15	
13	14.0	15.0	14.5		Medium stiff gray clay	P = .3 T = .15	
14	15.0	16.0			Ditto	P = .35 T = .25	
15	16.0	17.0			Ditto	P = .4 T = .5	
16	17.0	18.0		18.0	Medium stiff gray clay w/clayey silt pockets	P = .4 T = .25	
17	18.0	19.0	18.0		Medium stiff gray & tan silty clay with clayey silt layers	P = .3 T = .2	
18	19.0	20.0			Medium stiff gray & tan silty clay	P = .3 T = .2	

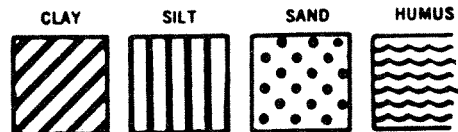
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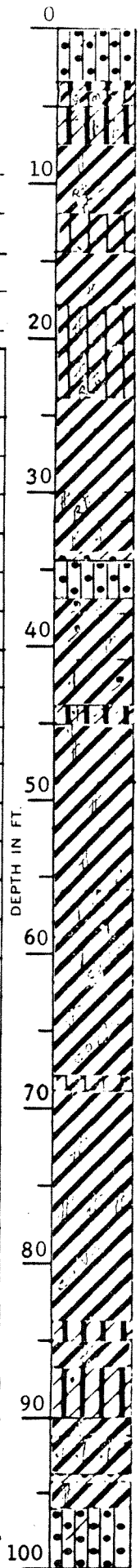
Remarks: NOTE: P = Penetrometer reading - shear

strength in tons/sq.ft. T = Torvane reading -

shear strength in tons/sq.ft.



Predominant type shown heavy. Modifying type shown light.



(Sheet #1)

LOG OF BORING

Sheet 2 of 8

Name of Project: Louisiana Power & Light Company
Waterford Steam Electric Station No. 3 - St. Charles Parish, Louisiana
For: Ebasco Services Inc., New York, New York

Boring No. 69 Date 10 & 11 Oct. 1972

Ground Elev. (Cont'd) 17.5 Datum MSL Gr. Water Depth _____

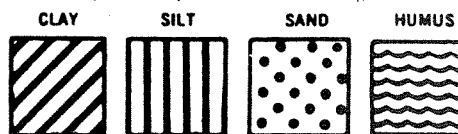
Sample No.	SAMPLE Depth — Feet		DEPTH STRATUM Feet		VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST
	From	To	From	To		
19	20.0	21.0		21.0	Medium stiff gray & tan silty clay	P = .3 T = .25
20	21.0	22.0	21.0		Medium stiff gray & tan silty clay with clayey silt pockets	P = .4 T = .3
21	22.0	23.0			Ditto	P = .4 T = .35
22	23.0	24.0		24.0	Medium stiff gray & tan silty clay with clayey silt pockets & few roots	P = .42 T = .55
23	24.0	25.0	24.0		Medium stiff gray & tan clay	P = .4 T = .25
24	25.0	26.0		26.0	Ditto	P = .35 T = .5
25	26.0	27.0	26.0		Stiff gray & tan clay	P = .6 T = .45
26	27.0	28.0		28.0	Ditto	P = .5 T = .55
27	28.0	29.0	28.0		Stiff gray clay	P = .65 T = .5
28	29.0	30.0		30.0	Ditto	P = .5 T = .5
29	30.0	31.0	30.0		Medium stiff gray clay w/few clayey silt pockets & roots	P = .4 T = .5
30	31.0	32.0		32.0	Ditto	P = .3 T = .45
31	32.0	33.0	32.0		Soft gray clay w/clayey silt layers & sandy silt pockets	P = .2 T = .25
32	33.0	34.0		34.0	Ditto	P = .2 T = .25
33	34.0	35.0	34.0	34.5	Loose gray clayey sand	P = .1
34	35.0	36.5	34.5	37.0	Loose gray silty sand	1 12 ^{P=.1}
35	36.5	37.0	37.0	38.0	Soft gray clay w/silty sand pockets & shell fragments	P = .2 T = .25
36	38.0	39.0	38.0		Medium stiff gray clay w/many shell fragments & clayey silt pockets	P = .25 T = .2
37	39.0	40.0			Medium stiff gray clay w/shell fragments & sandy silt pockets	P = .25 T = .25

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Remarks: NOTE: P = Penetrometer reading - shear

strength in tons/sq.ft. T = Torvane reading - shear strength in tons/sq.ft.



Predominant type shown heavy. Modifying type shown light.

(Sheet #2)

LOG OF BORING

Sheet 3 of 8

Name of Project: Louisiana Power & Light Company
Waterford Steam Electric Station No. 3 - St. Charles Parish, Louisiana

For: Ebasco Services Inc., New York, New York

Boring No. 69 Date 10 & 11 Oct. 1972
 Ground Elev. (Cont'd) 17.5 Datum MSL Gr. Water Depth

Sample No.	SAMPLE Depth — Feet		DEPTH STRATUM Feet		VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST
	From	To	From	To		
38	40.0	41.0		41.0	Medium stiff gray clay w/shell fragments & sandy silt pockets	P = .25 T = .25
39	41.0	42.0	41.0		Soft gray clay w/sandy silt pockets & shell fragments	P = .1 T = .25
40	42.0	43.0			Ditto	P = .2 T = .15
41	43.0	44.0		44.0	Soft gray clay w/clayey silt pockets & lenses	P = .15 T = .3
42	44.0	45.0	44.0	45.0	Loose gray clayey silt w/sandy silt pockets & clay layers	P = .1 T = .2
3	45.0	46.0	45.0	46.0	Soft gray clay w/sandy silt pockets & lenses	P = .1 T = .25
44	46.0	47.0	46.0		Medium stiff gray clay w/clayey silt pockets & sandy silt pockets & lenses	P = .25 T = .25
45	47.0	48.0			Ditto	P = .25 T = .25
46	48.0	49.0		49.0	Ditto	P = .25 T = .3
47	49.0	50.0	49.0		Soft to medium stiff gray clay w/few clayey silt pockets	P = .2 T = .25
48	50.0	51.0			Soft to medium stiff gray clay w/few tiny shell fragments	P = .2 T = .3
49	51.0	52.0		52.0	Ditto	P = .2 T = .4
50	52.0	53.0	52.0		Medium stiff gray clay w/clayey silt pockets & silty sand pockets	P = .25 T = .3
51	53.0	54.0			Ditto	P = .25 T = .25
52	54.0	55.0			Ditto	P = .25 T = .35
53	55.0	56.0		56.0	Ditto	P = .25 T = .35
					Continued	

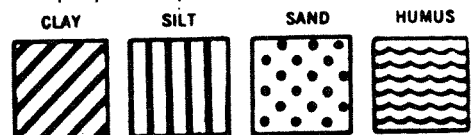
DEPTH IN FT.

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Remarks: NOTE: P = Penetrometer reading - shear

strength in tons/sq.ft. T = Torvane reading - shear strength in tons/sq.ft.



Predominant type shown heavy. Modifying type shown light.

(Sheet #3)

LOG OF BORING

Sheet 4 of 8

Name of Project: Louisiana Power & Light Company
Waterford Steam Electric Station No. 3 - St. Charles Parish, Louisiana
 For: Ebasco Services Inc., New York, New York

Boring No. 69 Date 10 & 11 Oct. 1972
 Ground Elev. (Cont'd) 17.5 Datum MSL Gr. Water Depth _____

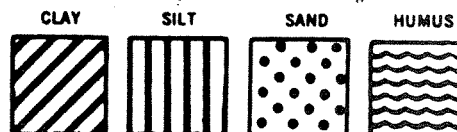
Sample No.	SAMPLE Depth — Feet		DEPTH STRATUM Feet		VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST
	From	To	From	To		
54	56.0	57.0	56.0	57.0	Stiff brownish-gray & gray clay w/few clayey silt pockets	P = .5 T = .3
55	57.0	58.0	57.0	58.0	Stiff gray & tan clay w/trace of silt	P = .8 T = .85
56	58.0	59.0	58.0	59.0	Very stiff gray & tan clay w/trace of silt	P = 1.9 T = .75
57	59.0	60.0	59.0		Stiff gray & tan clay w/trace of silt	P = .9 T = .8
58	60.0	61.0			Ditto	P = .9 T = .6
59	61.0	62.0		62.0	Stiff gray & tan clay w/trace of silt & few concretions	P = .9 T = .8
60	62.0	63.0	62.0		Very stiff tan & gray clay w/clayey silt pockets & concretions	P = 1.4 T = 1.0
61	63.0	64.0			Very stiff tan & gray clay w/clayey silt pockets	P = 1.1 T = .9
62	64.0	65.0			Ditto	P = 1.2 T = .9
63	65.0	66.0			Very stiff tan & gray clay w/clayey silt pockets & a few concretions	P = 1.3 T = 1.1
64	66.0	67.0			Ditto	P = 1.4 T = .8
65	67.0	68.0		68.0	Ditto	P = 1.4 T = .8
66	68.0	69.0	68.0	69.0	Stiff tan & gray silty clay with concretions	P = .7 T = .4
67	69.0	70.0	69.0		Very stiff tan & gray clay w/clayey silt pockets & lenses	P = 1.1 T = .8
68	70.0	71.0			Ditto	P = 1.3 T = .25
69	71.0	72.0			Ditto	P = 1.3 T = .25
70	72.0	73.0			Ditto	P = 1.15 T = .8
71	73.0	74.0			Ditto	P = 1.4 T = .8

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Remarks: NOTE: P = Penetrometer reading - shear

strength in tons/sq.ft. T = Torvane reading - shear strength in tons/sq.ft.



Predominant type shown heavy. Modifying type shown light.

(Sheet #4)

LOG OF BORING

Sheet 5 of 8

Name of Project: Louisiana Power & Light Company
Waterford Steam Electric Station No. 3 - St. Charles Parish, Louisiana
 For: Ebasco Services Inc., New York, New York

Boring No. 69 Date 10 & 11 Oct. 1972
 Ground Elev. (Cont'd) 17.5 Datum MSL Gr. Water Depth _____

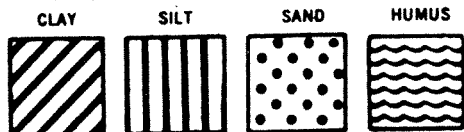
Sample No.	SAMPLE Depth — Feet		DEPTH STRATUM Feet		VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
	From	To	From	To			
72	74.0	75.0			Very stiff tan & gray clay w/clayey silt layers & lenses	P = 1.4 T = .8	
73	75.0	76.0			Very stiff tan & gray clay with concretions & clayey silt lenses	P = 1.4 T = .9	
74	76.0	77.0			Very stiff tan & gray clay w/clayey silt lenses	P = 1.4 T = .9	
75	77.0	78.0			Very stiff tan & gray clay w/clayey silt pockets	P = 1.3 T = 1.0	
76	78.0	79.0			Very stiff tan & gray clay w/few clayey silt pockets	P = 1.0 T = 1.0	
77	79.0	80.0			Ditto	P = 1.0 T = 1.0	
78	80.0	81.0			Ditto	P = 1.0 T = 1.0	
79	81.0	82.0			Ditto	P = 1.1 T = .8	
80	82.0	83.0			Very stiff tan & gray clay w/few clayey silt pockets & shell fragments	P = 1.0 T = .9	
81	83.0	84.0		84.0	Very stiff tan & gray clay w/few clayey silt pockets	P = 1.0 T = .6	
82	84.0	85.0	84.0	85.0	Compact tan & gray clayey silt	P = .8	
83	85.0	86.0	85.0		Very stiff tan & gray clay w/clayey silt pockets	P = 1.1 T = .6	
84	86.0	87.0		87.0	Very stiff tan & gray clay w/many clayey silt pockets & lenses	P = 1.1 T = .6	
85	87.0	88.5	87.0	90.0	Medium compact tan clayey silt w/some sand	5	18
86	90.0	91.5	90.0	91.5	Hard tan & gray clay w/few clayey silt lenses	6	32

DEPTH IN FT.

Number in first column indicates number of blows of 140-lb. hammer dropped 30 in. required to seat 2-in. O. D. splitspoon sampler 6 in. Number in second column indicates number of blows of 140-lb. hammer dropped 30 in. required to drive 2-in. O. D. splitspoon sampler 1 ft. after seating 6 in.

WHILE THIS LOG OF BORING IS CONSIDERED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT ITS RESPECTIVE LOCATION ON THE DATE SHOWN, IT IS NOT WARRANTED THAT IT IS REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

Remarks: NOTE: P = Penetrometer reading - shear



strength in tons/sq.ft. T = Torvane reading -
 shear strength in tons/sq.ft.

Predominant type shown heavy. Modifying type shown light.

(Sheet #5)

LOG OF BORING

Sheet 6 of 8

Name of Project: Louisiana Power & Light CompanyWaterford Steam Electric Station No. 3 - St. Charles Parish, LouisianaFor: Ebasco Services Inc., New York, New YorkBoring No. 69Date 10 & 11 Oct. 1972Ground Elev. (Cont'd) 17.5 Datum MSL Gr. Water Depth _____

Sample No.	SAMPLE Depth — Feet		DEPTH STRATUM Feet		VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
	From	To	From	To			
87	91.0	92.0	91.5	92.0	Very stiff gray & tan clay	P = 1.0 T = .6	
88	92.0	93.0	92.0		Stiff gray & tan clay w/sandy silt lenses	P = .8 T = 1.0	
89	93.0	94.0		94.0	Stiff gray & tan clay w/sand & clayey sand lenses	P = .6 T = 1.3	
90	94.0	95.0	94.0	94.5	Soft tan & gray clayey sand	P = .2	
91	95.0	96.0	94.5	96.0	Very stiff gray & tan clay w/clayey silt & silty sand pockets & lenses	P = .1 T = .8	
92	96.0	97.5	96.0		Very dense tan silty sand w/trace of clay	11 50	
93	98.5	100.0		100.0	Very dense tan silty sand w/few clay pockets	18 50=9"	
94	100.0	101.5	100.0	101.5	Medium stiff to stiff gray clay w/trace of silt		
95	103.5	105.0	101.5	105.0	Very dense gray sand w/thin clay layers & few clay pockets	4 50	
96	108.5	110.0	105.0		Very dense gray silty sand w/clayey silt layers	9 50	
97	113.5	115.0		118.5	Ditto	15 50=10"	
98	118.5	120.0	118.5		Stiff gray clay w/few clayey silt pockets & lenses	4 12 ^{P=.5}	
99	120.0	121.0			Stiff gray clay w/clayey silt pockets	P = .5 T = .7	
100	121.0	122.0			Stiff gray clay w/clayey silt pockets & lenses	P = .6 T = .7	
101	122.0	123.0			Ditto	P = .55 T = .7	
102	123.0	124.0			Stiff gray clay w/clayey silt pockets	P = .4 T = .65	

DEPTH IN FT.

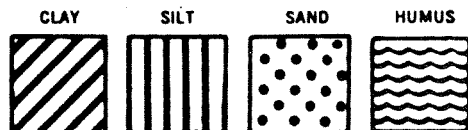
*Number in first column indicates number of blows of 140-lb. hammer dropped 30 in. required to seat 2-in. O. D. splitspoon sampler 6 in. Number in second column indicates number of blows of 140-lb. hammer dropped 30 in. required to drive 2-in. O. D. splitspoon sampler 1 ft. after seating 6 in.

WHILE THIS LOG OF BORING IS CONSIDERED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT ITS RESPECTIVE LOCATION ON THE DATE SHOWN, IT IS NOT WARRANTED THAT IT IS REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

Remarks: NOTE: P = Penetrometer reading - shear

strength in tons/sq.ft. T = Torvane reading -

shear strength in tons/sq.ft.



Predominant type shown heavy. Modifying type shown light.

(Sheet #6)

LOG OF BORING

Sheet 7 of 8

Name of Project: Louisiana Power & Light CompanyWaterford Steam Electric Station No. 3 - St. Charles Parish, LouisianaFor: Ebasco Services Inc., New York, New YorkBoring No. 69Date 10 & 11 Oct. 1972Ground Elev. (Cont'd) 17.5 Datum MSL Gr. Water Depth

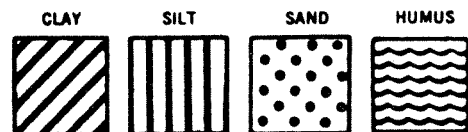
Sample No.	SAMPLE Depth — Feet		DEPTH STRATUM Feet		VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST
	From	To	From	To		
103	124.0	125.0			Stiff gray clay w/clayey silt pockets	P = .7 T = .25
104	125.0	126.0			Stiff gray clay	P = .6 T = .6
105	126.0	127.0			Stiff gray clay w/silty sand pockets & tiny shell fragments	P = .6 T = .8
106	127.0	128.0			Stiff gray clay w/silty sand lenses	P = .6 T = .6
107	128.0	129.0		129.0	Ditto	P = .55 T = .75
108	129.0	130.0	129.0	130.0	Very stiff gray & brown clay w/shell fragments, clayey sand pockets & trace of organic matter	P = 1.0 T = .75
109	130.0	131.0	130.0		Stiff gray & brown clay w/org. matter	P = .6 T = .75
110	131.0	132.0			Ditto	P = .65 T = .8
111	132.0	133.0			Ditto	P = .7 T = .6
112	133.0	134.0		134.0	Ditto	P = .7 T = .7
113	134.0	135.0	134.0		Stiff gray & brown sandy clay	P = .5 T = .45
114	135.0	136.0		136.0	Ditto	P = .5 T = .45
115	136.0	137.0	136.0		Stiff brown & gray clay w/organic matter & some silt	P = .5 T = .45
116	137.0	138.0		138.0	Ditto	P = .65 T = .6
117	138.0	139.0	138.0		Stiff gray clay	P = .7 T = .45
118	139.0	140.0			Ditto	P = .7 T = .7
119	140.0	141.0		141.0	Ditto	P = .8 T = .8
120	141.0	142.0	141.0		Stiff brown & gray clay w/few clayey silt pockets	P = .9 T = .85
121	142.0	143.0		143.0	Ditto	P = .5 T = 1.0
122	143.0	144.0	143.0	144.5	Very stiff greenish-gray clay w/clayey silt pockets	P = 1.0 T = 4.5

*Number in first column indicates number of blows of 140-lb. hammer dropped 30 in. required to seat 2-in. O. D. splitspoon sampler 6 in. Number in second column indicates number of blows of 140-lb. hammer dropped 30 in. required to drive 2-in. O. D. splitspoon sampler 1 ft. after seating 6 in.

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Remarks: NOTE: P = Penetrometer reading - shear

strength in tons/sq.ft. T = Torvane reading -
shear strength in tons/sq.ft.



Predominant type shown heavy. Modifying type shown light.

(Sheet #7)

Sheet 8 of 8

Boring No. 69 Date 10 & 11 Oct. 1972
 (Cont'd)
 Ground Elev. 17.5 Datum MSL Gr. Water Depth

DEPTH IN FT

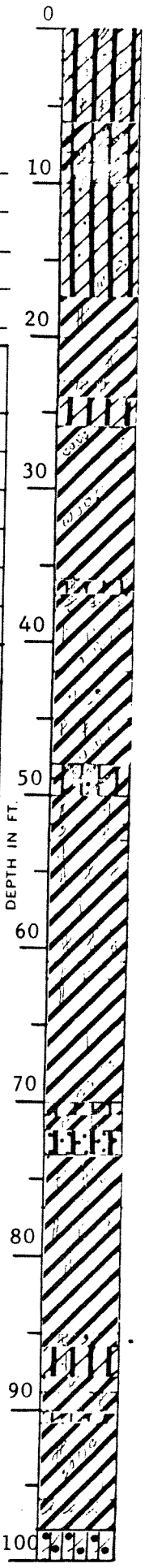
THIS LOG OF BORING IS CONSIDERED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT ITS RESPECTIVE LOCATION ON THE DATE SHOWN, IT IS NOT WARRANTED THAT IT IS REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

(Sheet #8)

LOG OF BORING

Name of Project: Louisiana Power & Light CompanyWaterford Steam Electric Station No. 3 - St. Charles Parish, LouisianaFor: Ebasco Services Inc., New York, New YorkBoring No. 70Date 16-18 October 1972Ground Elev. 22.04 Datum MSL Gr. Water Depth _____

Sample No.	SAMPLE Depth — Feet		DEPTH STRATUM Feet		VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
	From	To	From	To			
1	0.0	1.0	0.0	1.5	Loose tan clayey silt w/clay pockets		
2	1.0	2.0	1.5	2.0	Very compact tan clayey silt w/large roots	P = 1.0	
3	2.0	3.0	2.0	3.0	Loose to medium compact tan clayey silt w/silty clay pockets	T = 2.5	
4	3.0	4.0	3.0	4.5	Very loose tan clayey silt		
5	4.5	6.0	4.5	6.0	Loose tan clayey silt w/silty clay layers	2	8
6	6.0	7.0	6.0	7.0	Soft tan silty clay w/clayey silt pockets	P = .1 T = .1	
	7.0	8.0	7.0	8.0	Stiff tan & gray silty clay w/clayey silt pockets	P = .7 T = .15	
8	8.0	9.0	8.0	9.0	Medium stiff gray & tan silty clay with clayey silt layers	P = .25 T = .2	
9	9.0	10.0	9.0	10.0	Stiff gray silty clay w/clayey silt layers	P = .7 T = .2	
10	10.0	11.0	10.0	11.0	Medium compact gray & tan clayey silt w/trace of sand	P = .3 T = .3	
11	11.0	12.0	11.0	12.0	Compact tan & gray clayey silt w/trace of sand	P = .55 T = .25	
12	12.0	13.0	12.0	13.0	Loose tan & gray clayey silt w/trace of sand	P = .2 T = .25	
13	13.0	14.0	13.0	14.0	Compact gray & tan clayey silt w/trace of sand	P = .6 T = .2	
14	14.0	15.0	14.0		Medium compact gray clayey silt w/trace of sand	P = .25	
15	15.0	16.0			Ditto	P = .25	

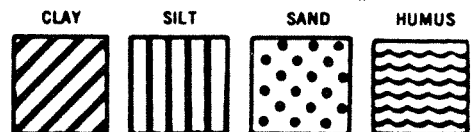


Number in first column indicates number of blows of 140-lb. hammer dropped 30 in. required to seat 2-in. O. D. splitspoon sampler 6 in. Number in second column indicates number of blows of 140-lb. hammer dropped 30 in. required to drive 2-in. O. D. splitspoon sampler 1 ft. after seating 6 in.

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Remarks: NOTE: P = Penetrometer reading - shear

strength in tons/sq.ft. T = Torvane reading - shear strength in tons/sq.ft.



Predominant type shown heavy. Modifying type shown light.

(Sheet #1)

LOG OF BORING

Name of Project: Louisiana Power & Light Company

Waterford Steam Electric Station No. 3 - St. Charles Parish, Louisiana

For: Ebasco Services Inc., New York, New York

Boring No. 70
(Cont'd)

Date 16-18 October 1972

Ground Elev. 22.04

Datum MSL

Gr. Water Depth

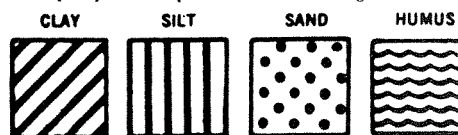
Sample No.	SAMPLE Depth — Feet		DEPTH STRATUM Feet		VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST
	From	To	From	To		
16	16.0	17.0		17.5	Medium compact gray clayey silt w/trace of sand & decayed wood	P = .25
17	17.0	18.0	17.5		Soft gray clay w/clayey silt pockets	P = .1 T = .25
18	18.0	19.0			Ditto	P = .15 T = .25
19	19.0	20.0		20.0	Soft gray clay w/clayey silt pockets & roots	P = .2 T = .35
20	20.0	21.0	20.0		Medium stiff gray clay w/few clayey silt pockets	P = .3 T = .35
21	21.0	22.0			Ditto	P = .4 T = .5
	22.0	23.0		23.0	Medium stiff gray clay w/many clayey silt pockets & roots	P = .3 T = .4
23	23.0	24.0	23.0	24.0	Soft gray clay w/clayey silt layers	P = .2 T = .2
24	24.0	25.0	24.0		Medium compact gray clayey silt with clay pockets	P = .3 T = .25
25	25.0	26.0		26.0	Medium compact gray clayey silt w/clay layers	P = .4 T = .1
26	26.0	27.0	26.0		Medium stiff gray & tan clay w/few concretions & trace of silt	P = .4 T = .15
27	27.0	28.0		28.0	Medium stiff gray & tan clay with concretions & clayey silt pockets	P = .25 T = .35
28	28.0	29.0	28.0		Stiff gray & tan clay w/decayed wood	P = .55 T = .45
29	29.0	30.0			Ditto	P = .5 T = .55
30	30.0	31.0			Ditto	P = .5 T = .65
31	31.0	32.0			Stiff gray & tan clay	P = .5 T = .55
32	32.0	33.0			Ditto	P = .55 T = .35
33	33.0	34.0			Ditto	P = .5 T = .55

Number in first column indicates number of blows of 140-lb. hammer dropped 30 in. required to seat 2-in. O. D. splitspoon sampler 6 in. Number in second column indicates number of blows of 140-lb. hammer dropped 30 in. required to drive 2-in. O. D. splitspoon sampler 1 ft. after seating 6 in.

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Remarks: NOTE: P = Penetrometer reading - shear

strength in tons/sq.ft. T = Torvane reading - shear strength in tons/sq.ft.



Predominant type shown heavy. Modifying type shown light.

(Sheet #2)

LOG OF BORING

Name of Project: Louisiana Power & Light Company
Waterford Steam Electric Station No. 3 - St. Charles Parish, Louisiana

For: Ebasco Services Inc., New York, New York

Boring No. 70 Date 16-18 October 1972
 (Cont'd)

Ground Elev. 22.04 Datum MSL Gr. Water Depth _____

Sample No.	SAMPLE Depth — Feet		DEPTH STRATUM Feet		VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST
	From	To	From	To		
34	34.0	35.0			Stiff gray & tan clay	P = .6 T = .7
35	35.0	36.0		36.0	Ditto	P = .55 T = .4
36	36.0	37.0	36.0	37.0	Stiff gray silty clay w/clayey silt pockets & sandy silt pockets	P = .8 T = .45
37	37.0	38.0	37.0	38.0	Medium stiff gray clay w/silty clay layers & clayey silt pockets	P = .3 T = .35
38	38.0	39.0	38.0		Medium stiff gray clay w/alternate layers of silty sand & organic matter	P = .3 T = .2
39	39.0	40.0			Medium stiff gray clay w/sand layers & trace of organic matter	P = .25
40	41.0	42.0		42.0	Medium stiff gray clay w/alternate layers of silty sand & trace of organic matter	P = .25
41	42.0	43.0	42.0		Soft gray clay w/sandy silt pockets & shell fragments	P = .1 T = .1
42	43.0	44.0			Ditto	P = .1
43	44.0	45.0		45.0	Soft gray clay w/sandy silt pockets	P = .15 T = .35
44	45.0	46.0	45.0		Medium stiff gray clay w/silty clay & shell layers & trace of organic matter	P = .25 T = .25
45	46.0	47.0			Medium stiff gray clay w/clayey silt & sandy silt pockets	P = .25 T = .35
46	47.0	48.0		48.0	Medium stiff gray clay w/clayey silt & sandy silt pockets & lenses & shell fragments	P = .25 T = .2
47	48.0	49.0	48.0	49.0	Soft gray silty clay w/clayey silt pockets & layers	P = .2 T = .15

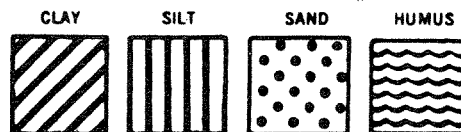
DEPTH IN FT.

Number in first column indicates number of blows of 140-lb. hammer dropped 30 in. required to seat 2-in. O. D. splitspoon sampler 6 in. Number in second column indicates number of blows of 140-lb. hammer dropped 30 in. required to drive 2-in. O. D. splitspoon sampler 1 ft. after seating 6 in.

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Remarks: NOTE: P = Penetrometer reading - shear

strength in tons/sq.ft. T = Torvane reading -
shear strength in tons/sq.ft.



Predominant type shown heavy. Modifying type shown light.

LOG OF BORING

Name of Project: Louisiana Power & Light Company

Waterford Steam Electric Station No. 3 - St. Charles Parish, Louisiana

For: Ebasco Services Inc., New York, New York

Boring No. 70
(Cont'd)

Date 16-18 October 1972

Ground Elev. 22.04

Datum MSL

Gr. Water Depth

Sample No.	SAMPLE Depth — Feet		DEPTH STRATUM Feet		VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST
	From	To	From	To		
48	49.0	50.0	49.0	50.0	Medium stiff gray silty clay w/small shell fragments & clayey silt pockets	P = .3 T = .15
49	50.0	51.0	50.0		Medium stiff gray clay w/clayey silt & sandy silt pockets	P = .3 T = .25
50	51.0	52.0		52.0	Medium stiff gray clay w/few tiny shell fragments & clayey silt & silty sand pockets	P = .45 T = .25
51	52.0	53.0	52.0	53.0	Stiff gray clay w/clayey silt & sandy silt pockets	P = .5 T = .15
	53.0	54.0	53.0		Medium stiff gray clay w/sandy silt pockets & clayey silt layers	P = .3 T = .35
53	54.0	55.0			Medium stiff gray clay w/sandy silt pockets, clayey silt layers & trace of sand	P = .3 T = .4
54	55.0	56.0			Medium stiff gray clay w/clayey silt & sandy silt pockets	P = .25 T = .45
55	56.0	57.0			Ditto	P = .3 T = .2
56	57.0	58.0			Ditto	P = .35 T = .4
57	58.0	59.0			Ditto	P = .3 T = .4
58	59.0	60.0			Ditto	P = .4 T = .5
59	60.0	61.0		61.0	Ditto	P = .3 T = .45
60	61.0	62.0	61.0	62.0	Stiff brown & gray clay w/silty sand pockets	P = .9 T = .95
61	62.0	63.0	62.0		Very stiff gray & tan clay w/trace of silt	P = 1.4 T = .9
62	63.0	64.0			Ditto	P = 1.0 T = .8

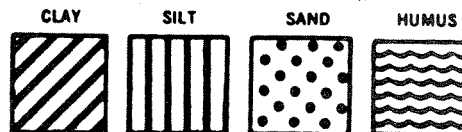
DEPTH IN FT.

Number in first column indicates number of blows of 140-lb. hammer dropped 30 in. required to seat 2-in. O. D. splitspoon sampler 6 in. Number in second column indicates number of blows of 140-lb. hammer dropped 30 in. required to drive 2-in. O. D. splitspoon sampler 1 ft. after seating 6 in.

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Remarks: NOTE: P = Penetrometer reading - shear

strength in tons/sq.ft. T = Torvane reading - shear strength in tons/sq.ft.



Predominant type shown heavy. Modifying type shown light.

(Sheet #4)

LOG OF BORING

Project: Louisiana Power & Light Company
Waterford Steam Electric Station No. 3 - St. Charles Parish, Louisiana
 For: Ebasco Services Inc., New York, New York

Boring No. 70 Date 16-18 October 1972
 (Cont'd)
 Ground Elev. 22.04 Datum MSL Gr. Water Depth _____

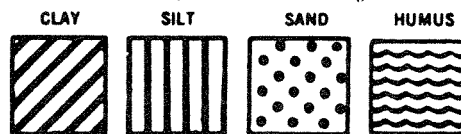
Sample No.	SAMPLE Depth — Feet		DEPTH STRATUM Feet		VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
	From	To	From	To			
63	64.0	65.0		65.0	Very stiff gray & tan clay w/trace of silt	P = 1.4 T = .9	
64	65.0	66.0	65.0		Very stiff tan & gray clay w/trace of silt	P = 1.8 T = 1.0	
65	66.0	67.0			Ditto	P = 1.15 T = 1.3	
66	67.0	68.0			Very stiff tan & gray clay	P = 1.4 T = .8	
67	68.0	69.0			Very stiff tan & gray clay w/trace of silt & concretions	P = 1.35 T = 1.1	
68	69.0	70.0		70.0	Ditto	P = 1.2 T = 1.4	
	70.0	71.0	70.0	71.0	Stiff tan & gray silty clay	P = 1.4 T = 1.3	
70	71.0	72.0	71.0	72.0	Very stiff tan & gray clay w/silty clay & sandy silt layers	P = 1.05 T = .4	
71	72.0	73.5	72.0	73.5	Medium compact tan sandy silt	7 15	
72	74.5	76.0	73.5		Stiff tan & gray clay w/clayey silt lenses & few concretions	4 13	
73	76.0	77.0		77.0	Stiff tan & gray clay w/trace of silt	P = .9 T = 1.1	
74	77.0	78.0	77.0		Very stiff tan & gray clay w/clayey silt lenses & pockets	P = 1.2 T = 1.4	
75	78.0	79.0			Ditto	P = 1.05 T = 1.1	
76	79.0	80.0			Very stiff tan & gray clay w/clayey silt pockets	P = 1.1 T = 1.1	
77	80.0	81.0			Very stiff tan & gray clay	P = 1.55 T = 1.0	
78	81.0	82.0			Ditto	P = 1.0 T = .9	
79	82.0	83.0			Ditto	P = 1.2 T = 1.0	
80	83.0	84.0			Ditto	P = 1.05 T = 1.0	
(Continued)							

Number in first column indicates number of blows of 140-lb. hammer dropped 30 in. required to seat 2-in. O. D. split spoon sampler 6 in. Number in second column indicates number of blows of 140-lb. hammer dropped 30 in. required to drive 2-in. O. D. split spoon sampler 1 ft. after seating 6 in.

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Remarks: NOTE: P = Penetrometer reading - shear

strength in tons/sq.ft. T = Torvane reading - shear strength in tons/sq.ft.



Predominant type shown heavy. Modifying type shown light.

LOG OF BORING

Name of Project: Louisiana Power & Light Company

Waterford Steam Electric Station No. 3 - St. Charles Parish, Louisiana

For: Ebasco Services Inc., New York, New York

Boring No. 70 (Cont'd) Date 16-18 October 1972

Ground Elev. 22.04 Datum MSL Gr. Water Depth

Sample No.	SAMPLE Depth — Feet		DEPTH STRATUM Feet		VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST
	From	To	From	To		
81	84.0	85.0			Very stiff tan & gray clay w/few clayey silt pockets	P = 1.0 T = .9
82	85.0	86.0	85.0	86.0	Very stiff gray & tan clay w/few clayey silt pockets & many shell fragments	P = 1.0 T = 1.0
83	86.0	87.0	86.0		Loose tan clayey silt w/sandy silt layers	
84	87.0	88.0		88.0	Ditto	
85	88.0	89.0	88.0	89.0	Stiff gray & tan clay w/clayey silt pockets	P = .8 T = .4
86	89.0	90.0	89.0	90.0	Very stiff gray & tan clay w/clayey silt pockets	P = 1.45 T = 1.4
87	90.0	91.0	90.0	91.0	Medium stiff tan silty clay w/clayey silt lenses	P = .3
88	91.0	92.0	91.0		Very stiff tan & gray clay w/clayey silt pockets & concretions	P = 1.2 T = .4
89	92.0	93.0			Very stiff tan & gray clay	P = 1.5 T = 1.6
90	93.0	94.0			Very stiff tan & gray clay w/trace of silt	P = 1.1 T = 1.4
91	94.0	95.0			Ditto	P = 1.1 T = 1.4
92	95.0	96.0		96.0	Very stiff tan & gray clay w/sandy clay layers	P = 1.2 T = .9
93	96.0	97.0	96.0		Stiff gray & tan clay w/clayey sand pockets	P = .5 T = .5
94	97.0	98.0		98.0	Ditto	P = .75 T = .5
95	98.5	100.0	98.0		Very dense tan silty sand w/clay pockets	16 50

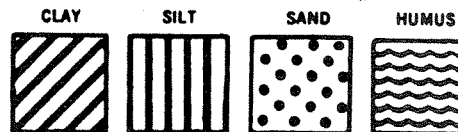
DEPTH IN FT.

Number in first column indicates number of blows of 140-lb. hammer dropped 30 in. required to seat 2-in. O. D. splitspoon sampler 6 in. Number in second column indicates number of blows of 140-lb. hammer dropped 30 in. required to drive 2-in. O. D. splitspoon sampler 1 ft. after seating 6 in.

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Remarks: NOTE: P = Penetrometer reading - shear

strength in tons/sq.ft. T = Torvane reading - shear strength in tons/sq.ft.



Predominant type shown heavy. Modifying type shown light.

(Sheet #6)

LOG OF BORING

name of Project: Louisiana Power & Light Company

Waterford Steam Electric Station No. 3 - St. Charles Parish, Louisiana

For: Ebasco Services Inc., New York, New York

Boring No. 70
(Cont'd)

Date 16-18 October 1972

Ground Elev. 22.04 Datum MSL Gr. Water Depth

[illegible]

DEPTH IN FT.

ber in first column indicates number of blows of 140-lb. hammer dropped 30 in. required to seat 2-in. O. D. splitspoon sampler 6 in. Number in second column indicates number of blows of 140-lb. hammer dropped 30 in. required to drive 2-in. O. D. splitspoon sampler 1 ft. after seating 6 in.

THE THIS LOG OF BORING IS CONSIDERED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT ITS RESPECTIVE LOCATION ON THE DATE SHOWN, IT IS NOT WARRANTED THAT IT IS REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

Remarks: NOTE: P = Penetrometer reading - shear

$$\frac{\text{strength in tons/sq.ft.} \quad T = \text{Torvane reading}}{\text{shear strength in tons/sq.ft.}}$$

Predominant type shown heavy. Modifying type shown light.

(Sheet #7)

LOG OF BORING

Name of Project: Louisiana Power & Light CompanyWaterford Steam Electric Station No. 3 - St. Charles Parish, LouisianaFor: Ebasco Services Inc., New York, New YorkBoring No. 71Date 19-20 October 1972Ground Elev. 31.22 Datum MSL Gr. Water Depth _____

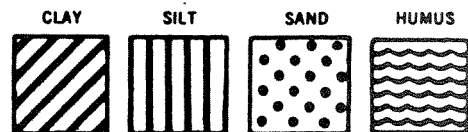
Sample No.	SAMPLE Depth — Feet		DEPTH STRATUM Feet		VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
	From	To	From	To			
1	0.0	1.5	0.0		Loose tan silt w/clay	9	14
2	1.5	3.0			Ditto	3	8
3	3.5	5.0		5.0	Ditto	2	7
4	5.0	6.0	5.0		Stiff tan & gray silty clay w/silt pockets	P = .85 T = .8	
5	6.0	7.0		7.0	Ditto	P = 1.5 T = .65	
6	7.0	8.0	7.0	8.0	Very stiff tan & gray silty clay w/silt pockets	P = 1.0 T = .45	
7	8.0	9.0	8.0	9.0	Very compact tan & gray clayey silt w/silty clay pockets	P = 1.15 T = .5	
8	9.0	10.0	9.0	10.0	Ditto	P = 1.0 T = .45	
9	10.0	11.0	10.0	11.0	Stiff tan & gray silty clay w/clayey silt pockets	P = 1.15 T = .5	
10	11.0	12.0	11.0		Medium stiff tan & gray silty clay with clayey silt pockets	P = .4 T = .35	
11	12.0	13.0			Ditto	P = .4 T = .45	
12	13.0	14.0		14.0	Ditto	P = .4 T = .45	
13	14.0	15.0	14.0	15.0	Medium stiff gray & tan silty clay with clayey silt pockets	P = .25 T = .5	
14	15.0	16.0	15.0	16.0	Ditto	P = .5 T = .55	
15	16.0	17.0	16.0		Medium stiff gray silty clay w/clayey silt lenses & layers	P = .5 T = .6	
16	17.0	18.0			Ditto	P = .5 T = .55	
17	18.0	19.0		19.0	Medium stiff gray silty clay w/clayey silt pockets	P = .5 T = .1	
(Continued)							

Number in first column indicates number of blows of 140-lb. hammer dropped 30 in. required to seat 2-in. O. D. splitspoon sampler 6 in. Number in second column indicates number of blows of 140-lb. hammer dropped 30 in. required to drive 2-in. O. D. splitspoon sampler 1 ft. after seating 6 in.

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Remarks: NOTE: P = Penetrometer reading - shear

strength in tons/sq.ft. T = Torvane reading - shear strength in tons/sq.ft.



Predominant type shown heavy. Modifying type shown light.

(Sheet #1)

LOG OF BORING

Name of Project: Louisiana Power & Light Company
Waterford Steam Electric Station No. 3 - St. Charles Parish, Louisiana

For: Ebasco Services Inc., New York, New York

Boring No. 71 Date 19-20 October 1972
 (Cont'd)
 Ground Elev. 31.22 Datum MSL Gr. Water Depth

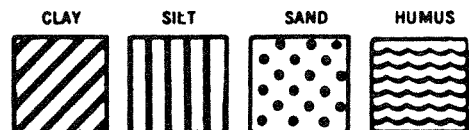
Sample No.	SAMPLE Depth — Feet		DEPTH STRATUM Feet		VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST
	From	To	From	To		
18	19.0	20.0	19.0		Medium stiff gray & tan silty clay with clayey silt pockets	P = .5 T = .45
19	20.0	21.0		21.0	Ditto	P = .25 T = .3
20	21.0	22.0	21.0		Medium stiff gray & tan clay w/clayey silt pockets	P = .5 T = .45
21	22.0	23.0		23.0	Ditto	P = .25 T = .6
22	23.0	24.0	23.0		Stiff tan & gray silty clay w/many clayey silt pockets	P = .65 T = .35
23	24.0	25.0			Stiff tan & gray silty clay w/silty clay layers	P = .9 T = .3
24	25.0	26.0		26.0	Stiff tan & gray silty clay w/many clayey silt pockets	P = .75 T = .4
25	26.0	27.0	26.0		Compact gray clayey silt	P = .25 T = .3
26	27.0	28.0		28.5	Ditto	P = .15 T = .4
27	28.0	29.0	28.5	29.0	Stiff gray clay w/clayey silt pockets	P = .25 T = .25
28	29.0	30.0	29.0		Medium stiff gray clay w/roots & silt pockets	P = .4 T = .5
29	30.0	31.0			Ditto	P = .5 T = .5
30	31.0	32.0		32.0	Ditto	P = .25 T = .3
31	32.0	33.0	32.0		Medium compact gray & tan clayey silt w/silty clay layers	P = .4 T = .5
32	33.0	34.0			Ditto	P = .25 T = .55
33	34.0	35.0			Ditto	P = .25 T = .2
34	35.0	36.0		36.5	Ditto	P = .25 T = .45
35	36.0	37.0	36.5		Medium stiff gray & tan silty clay with clayey silt pockets	P = .4 T = .4

*Number in first column indicates number of blows of 140-lb. hammer dropped 30 in. required to seat 2-in. O. D. splitspoon sampler 6 in. Number in second column indicates number of blows of 140-lb. hammer dropped 30 in. required to drive 2-in. O. D. splitspoon sampler 1 ft. after seating 6 in.

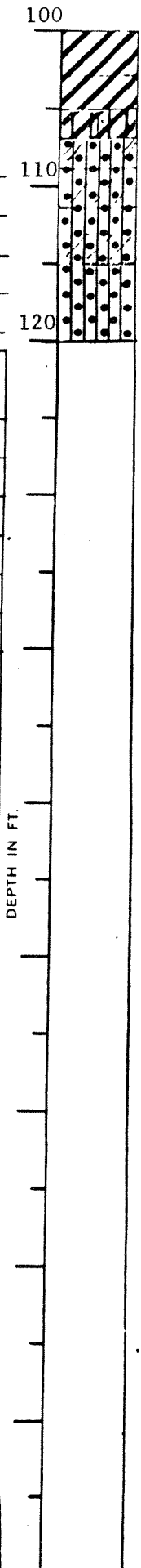
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Remarks: NOTE: P = Penetrometer reading - shear

strength in tons/sq.ft. T = Torvane reading - shear strength in tons/sq.ft.



Predominant type shown heavy. Modifying type shown light.



LOG OF BORING

Name of Project: Louisiana Power & Light Company
Waterford Steam Electric Station No. 3 - St. Charles Parish, Louisiana
 For: Ebasco Services Inc., New York, New York

Boring No. 71 Date 19-20 October 1972
 (Cont'd)
 Ground Elev. 31.22 Datum MSL Gr. Water Depth _____

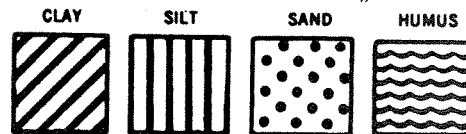
Sample No.	SAMPLE Depth — Feet		DEPTH STRATUM Feet		VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST
	From	To	From	To		
36	37.0	38.0		38.0	Medium stiff gray & tan silty clay with clay layers	P = .4 T = .5
37	38.0	39.0	38.0		Medium stiff gray & tan clay w/silt pockets & clayey silt pockets	P = .5 T = .45
38	39.0	40.0			Ditto	P = .75 T = .6
39	40.0	41.0			Ditto	P = .5 T = .75
40	41.0	42.0			Medium stiff gray & tan clay	P = .5 T = .35
41	42.0	43.0			Ditto	P = .5 T = .35
42	43.0	44.0		44.0	Ditto	P = .75 T = .35
43	44.0	45.0	44.0		Medium stiff gray clay	P = .5 T = .25
44	45.0	46.0		46.5	Ditto	P = .5 T = .2
45	46.0	47.0	46.5	47.0	Medium stiff gray sandy clay w/silty sand layers & lenses	P = .25 T = .1
46	47.0	48.0	47.0		Medium stiff gray silty clay w/silt & sand lenses & pockets	P = .25 T = .25
47	48.0	49.0		49.0	Medium stiff gray silty clay w/sand layers & organic matter	P = .5 T = .4
48	49.0	50.0	49.0		Loose gray sand	
49	50.0	51.5		51.5	Loose gray sand w/trace of clay	5 8
50	51.5	52.0	51.5		Soft gray sandy clay w/silty sand lenses & shells	P = 1.25 T = .3
51	52.0	53.0			Soft gray sandy clay w/silty sand lenses	P = 1.25 T = .35
52	53.0	54.0		54.0	Ditto	P = 1.25 T = .35
53	54.0	55.0	54.0	55.0	Soft gray clay w/many shells	P = 1.25 T = .55
54	55.0	56.0	55.0		Medium stiff gray clay w/silty sand lenses & pockets & shells	P = .25 T = .4

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Remarks: NOTE: P = Penetrometer reading - shear

strength in tons/sq.ft. T = Torvane reading - shear strength in tons/sq.ft.



Predominant type shown heavy. Modifying type shown light.

LOG OF BORING

Name of Project: Louisiana Power & Light Company
Waterford Steam Electric Station No. 3 - St. Charles Parish, Louisiana

For: Ebasco Services Inc., New York, New York

Boring No. 71 Date 19-20 October 1972
 (Cont'd)
 Ground Elev. 31.22 Datum MSL Gr. Water Depth _____

Sample No.	SAMPLE Depth — Feet		DEPTH STRATUM Feet		VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST
	From	To	From	To		
55	56.0	57.0			Medium stiff gray clay w/silty sand	P = .25 T = .35
					lenses & pockets	
56	57.0	58.0		58.0	Medium stiff gray clay w/many sand	P = .25 T = .3
					lenses & pockets	
57	58.0	59.0	58.0		Loose gray silty sand w/many sand & clay	P = .4 T = .25
					lenses and pockets	
58	59.0	60.0		60.0	Loose gray silty sand w/sandy silt &	P = .5 T = .25
					clay lenses and layers	
59	60.0	61.0	60.0		Medium stiff gray clay w/silty sand	P = .25 T = .35
					lenses, sand pockets & sandy silt	
					lenses	
60	61.0	62.0			Ditto	P = .25 T = .45
61	62.0	63.0			Ditto	P = .4 T = .45
62	63.0	64.0			Ditto	P = .25 T = .45
63	64.0	65.0			Ditto	P = .25 T = .3
64	65.0	66.0			Medium stiff gray clay w/silt & sand	P = 1.25 T = .45
					lenses & pockets	
65	66.0	67.0			Ditto	P = .25 T = .5
66	67.0	68.0			Ditto	P = .4 T = .5
67	68.0	69.0			Ditto	P = .4 T = .6
68	69.0	70.0		70.0	Ditto	P = .35 T = .6
69	70.0	71.0	70.0	71.0	Stiff gray & tan clay w/trace of silt	P = .2 T = .65
70	71.0	72.0	71.0		Very stiff gray & tan clay w/trace of silt	P = 1.3 T = .75
71	72.0	73.0		73.0	Very stiff gray & tan clay w/clayey silt pockets	P = 1.0 T = 1.3

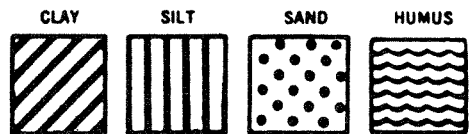
DEPTH IN FT.

* Number in first column indicates number of blows of 140-lb. hammer dropped 30 in. required to seat 2-in. O. D. splitspoon sampler 6 in. Number in second column indicates number of blows of 140-lb. hammer dropped 30 in. required to drive 2-in. O. D. splitspoon sampler 1 ft. after seating 6 in.

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Remarks: NOTE: P = Penetrometer reading - shear

strength in tons/sq.ft. T = Torvane reading - shear strength in tons/sq.ft.



Predominant type shown heavy. Modifying type shown light.

LOG OF BORING

Name of Project: Louisiana Power & Light Company
Waterford Steam Electric Station No. 3 - St. Charles Parish, Louisiana
 For: Ebasco Services Inc., New York, New York

Boring No. 71 Date 19-20 October 1972
 (Cont'd)
 Ground Elev. 31.22 Datum MSL Gr. Water Depth _____

Sample No.	SAMPLE Depth — Feet		DEPTH STRATUM Feet		VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST
	From	To	From	To		
72	73.0	74.0	73.0	74.0	Hard gray & tan clay w/clayey silt pockets	P = 2.25 T = 1.7
73	74.0	75.0	74.0	75.0	Very stiff tan & gray clay w/clayey silt pockets	P = 1.25 T = 2.0
74	75.0	76.0	75.0	76.0	Hard tan & gray clay w/trace of silt	P = 2.25 T = 1.7
75	76.0	77.0	76.0		Very stiff tan & gray clay w/few concretions & trace of silt	P = 1.05 T = 2.0
76	77.0	78.0			Ditto	P = 1.0 T = 1.3
77	78.0	79.0			Very stiff tan & gray clay w/few concretions & clayey silt pockets	P = 1.4 T = 1.7
78	79.0	80.0		80.0	Very stiff tan & gray clay w/concretions & silty sand pockets	P = 1.0 T = .6
79	80.0	81.0	80.0		Stiff tan & gray silty clay w/clayey silt pockets & silty sand pockets	P = .5 T = .6
80	81.0	82.0		82.0	Stiff tan & gray silty clay w/silty sand layers & lenses & shell fragments	P = .6 T = .6
81	82.0	83.0	82.0		Very stiff tan & gray clay w/few sandy silt lenses & pockets	P = 1.0 T = 1.3
82	83.0	84.0			Very stiff tan & gray clay w/few clayey silt lenses & pockets	P = 1.05 T = 1.3
83	84.0	85.0			Ditto	P = 1.3 T = .8
84	85.0	86.0			Very stiff tan & gray clay w/thin clayey silt layers & lenses	P = 1.25 T = 1.5
85	87.0	88.0			Very stiff tan & gray clay w/few clayey silt lenses	P = 1.4 T = .5
86	88.0	89.0			Ditto	P = 1.0 T = 1.1

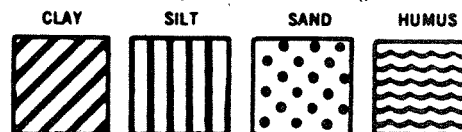
DEPTH IN FT.

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Remarks: NOTE: P = Penetrometer reading - shear

strength in tons/sq.ft. T = Torvane reading -
 shear strength in tons/sq.ft.



Predominant type shown heavy. Modifying type shown light.

LOG OF BORING

Name of Project: Louisiana Power & Light CompanyWaterford Steam Electric Station No. 3 - St. Charles Parish, LouisianaFor: Ebasco Services Inc., New York, New YorkBoring No. 71 Date 19-20 October 1972(Cont'd)
Ground Elev. 31.22 Datum MSL Gr. Water Depth

Sample No.	SAMPLE Depth — Feet		DEPTH STRATUM Feet		VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST
	From	To	From	To		
87	89.0	90.0		90.0	Very stiff tan & gray clay w/few clayey silt lenses	P = 1.0 T = 1.0
88	90.0	91.0	90.0	91.0	Stiff tan & gray clay w/clayey silt pockets & lenses	P = .75 T = 1.3
89	91.0	92.0	91.0	92.0	Very stiff tan & gray clay w/clayey silt pockets	P = 1.0 T = 1.1
90	92.0	93.0	92.0	93.0	Stiff tan & gray clay w/clayey silt pockets	P = .75 T = 1.1
91	93.0	94.0	93.0		Very stiff tan & gray clay w/clayey silt pockets	P = 1.0 T = 1.3
92	94.0	95.0		95.0	Ditto	P = 1.0 T = 1.1
93	95.0	96.0	95.0		Stiff tan & gray clay w/clayey silt pockets & shell fragments	P = .75 T = 1.0
94	96.0	97.0		97.0	Stiff tan & gray clay w/many clayey silt lenses & pockets & shell fragments	P = .75 T = 1.0
95	97.0	98.0	97.0	98.0	Stiff tan & gray silty clay	P = .5
96	98.0	99.0	98.0		Very stiff gray & tan clay w/clayey silt pockets	P = 1.1 T = .9
97	99.0	100.0			Very stiff gray & tan clay	P = 1.0 T = 1.0
98	100.0	101.0			Ditto	P = 1.5 T = .6
99	101.0	102.0			Ditto	P = 1.25 T = 1.3
100	102.0	103.0		103.0	Ditto	P = 1.4 T = 1.0
101	103.0	104.0	103.0		Stiff gray & tan clay	P = .9 T = .8
102	104.0	105.0		105.0	Ditto	P = 1.0 T = .25
103	105.0	106.0	105.0		Stiff gray & tan silty clay w/silty sand pockets	P = .75

DEPTH IN FT.

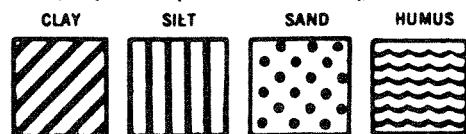
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Remarks: NOTE: P = Penetrometer reading - shear

strength in tons/sq.ft. T = Torvane reading -

shear strength in tons/sq.ft.



Predominant type shown heavy. Modifying type shown light.

LOG OF BORING

Line of Project: Louisiana Power & Light Company
Waterford Steam Electric Station No. 3 - St. Charles Parish, Louisiana
For: Ebasco Services Inc., New York, New York

Boring No. 71 Date 19-20 October 1972
(Cont'd)
Ground Elev. 31.22 Datum MSL Gr. Water Depth

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DEPTH IN FT.

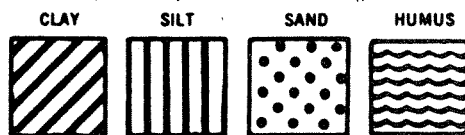
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Remarks: NOTE: P = Penetrometer reading - shear

strength in tons/sq.ft. T = Torvane reading -

shear strength in tons/sq.ft.



Predominant type shown heavy. Modifying type shown light.

LOG OF BORING

Name of Project: Louisiana Power & Light Company
Waterford Steam Electric Station No. 3 - St. Charles Parish, Louisiana

For: Ebasco Services Inc., New York, New York

Boring No. 72 Date 23-24 October 1972

Ground Elev. 31.14 Datum MSL Gr. Water Depth _____

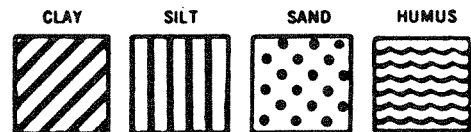
Sample No.	SAMPLE Depth — Feet		DEPTH STRATUM Feet		VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
	From	To	From	To			
1	0.6	2.0	0.0		Loose tan clayey silt	8	12
2	3.0	4.5		4.5	Loose tan clayey silt w/clay pockets	3	8
3	5.0	6.0	4.5		Compact tan clayey silt w/clay pockets	P = .5 T = .1	
4	6.0	7.0		7.0	Ditto	P = .8 T = .1	
5	7.0	8.0	7.0		Very compact tan clayey silt w/silty clay layers	P = 1.25 T = .3	
6	8.0	9.0		9.0	Very compact tan clayey silt w/few clay pockets	P = 1.25 T = .35	
7	9.0	10.0	9.0		Compact tan clayey silt w/silty clay layers & pockets	P = .9 T = .1	
8	10.0	11.0			Compact tan clayey silt w/silty clay pockets	P = .8 T = .15	
9	11.0	12.0			Ditto	P = .7 T = .15	
10	12.0	13.0		13.0	Ditto	P = .7 T = .2	
11	13.0	14.0	13.0		Medium stiff tan silty clay w/clayey silt pockets & thin layers	P = .25 T = .2	
12	14.0	15.0		15.0	Ditto	P = .25 T = .2	
13	15.0	16.0	15.0		Very stiff gray silty clay w/many clayey silt pockets & lenses	P = 1.0 T = .4	
14	16.0	17.0		17.0	Ditto	P = .5 T = .15	
15	17.0	18.0	17.0	18.0	Stiff gray clay w/trace of silt	P = .7 T = .2	
16	18.0	19.0	18.0	19.0	Compact gray clayey silt w/clay pockets	P = .25 T = .4	
17	19.0	20.0	19.0		Medium compact gray clayey silt w/clay pockets	P = .3 T = .15	
18	20.0	21.0		21.5	Ditto		
(Continued)							

*Number in first column indicates number of blows of 140-lb. hammer dropped 30 in. required to seat 2-in. O. D. split spoon sampler 6 in. Number in second column indicates number of blows of 140-lb. hammer dropped 30 in. required to drive 2-in. O. D. split spoon sampler 1 ft. after seating 6 in.

WHILE THIS LOG OF BORING IS CONSIDERED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT ITS RESPECTIVE LOCATION ON THE DATE SHOWN, IT IS NOT WARRANTED THAT IT IS REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

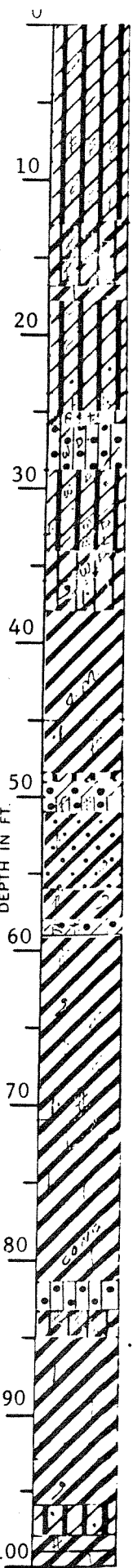
Remarks: NOTE: P = Penetrometer reading - shear

strength in tons/sq.ft. T = Torvane reading - shear strength in tons/sq.ft.



Predominant type shown heavy. Modifying type shown light.

(Sheet #1)



LOG OF BORING

 Name of Project: Louisiana Power & Light Company
Waterford Steam Electric Station No. 3 - St. Charles Parish, Louisiana
For: Ebasco Services Inc., New York, New York

 Boring No. 72

 Date 23-24 October 1972

(Cont'd)

 Ground Elev. 31.14

 Datum MSL

 Gr. Water Depth 120

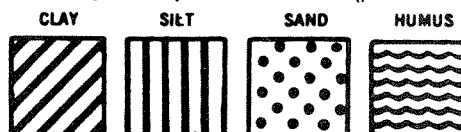
Sample No.	SAMPLE Depth — Feet		DEPTH STRATUM Feet		VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST
	From	To	From	To		
19	21.0	22.0	21.5		Medium compact tan & gray clayey silt	P = .45 T = .25
					w/trace of sand	
20	22.0	23.0			Medium compact tan & gray clayey silt	P = .3 T = .15
21	23.0	24.0		24.0	Medium compact tan & gray clayey silt	P = .25 T = .2
					w/silty sand pockets & lenses	
22	24.0	25.0	24.0	25.0	Medium compact gray & tan clayey silt	P = .25 T = .2
					w/silty sand pockets & lenses	
23	25.0	26.0	25.0	26.0	Soft gray silty clay w/few roots &	P = .1 T = .1
					clayey sand pockets	
24	26.0	27.0	26.0		Loose gray silty sand w/trace of clay	
25	27.0	28.0			Ditto	
26	28.0	29.0		29.0	Loose gray silty sand w/some decayed	
					wood & trace of clay	
27	29.0	30.0	29.0		Medium compact gray clayey silt w/some	P = .3
					wood & trace of sand	
28	30.0	31.0		31.0	Ditto	P = .3
29	31.0	32.0	31.0		Loose gray clayey silt w/clay layers,	P = .2 T = .25
					silty sand pockets & wood	
30	32.0	33.0		33.0	Loose gray clayey silt w/silty sand	P = .2 T = .2
					layers, silty clay layers & wood	
31	33.0	34.0	33.0	34.0	Compact gray clayey silt w/clay layers,	P = .55 T = .25
					wood & trace of sand	
31A	34.0	35.0	34.0		Soft gray silty clay w/some decayed	P = .1 T = .25
					wood	
32	35.0	36.0		36.0	Soft gray silty clay w/some shell	P = .2 T = .2
					fragments	

*Number in first column indicates number of blows of 140-lb. hammer dropped 30 in. required to seat 2-in. O. D. splitspoon sampler 6 in. Number in second column indicates number of blows of 140-lb. hammer dropped 30 in. required to drive 2-in. O. D. splitspoon sampler 1 ft. after seating 6 in.

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Remarks: NOTE: P = Penetrometer reading - shear

strength in tons/sq.ft. T = Torvane reading - shear strength in tons/sq.ft.



Predominant type shown heavy. Modifying type shown light.

(Sheet #2)

LOG OF BORING

Name of Project: Louisiana Power & Light Company
Waterford Steam Electric Station No. 3 - St. Charles Parish, Louisiana
 For: Ebasco Services Inc., New York, New York

Boring No. 72 Date 23-24 October 1972
 (Cont'd)
 Ground Elev. 31.14 Datum MSL Gr. Water Depth _____

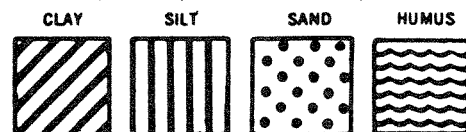
Sample No.	SAMPLE Depth — Feet		DEPTH STRATUM Feet		VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST
	From	To	From	To		
33	36.0	37.0	36.0		Medium stiff gray silty clay w/silty sand pockets	P = .25 T = .15
34	37.0	38.0		38.0	Medium stiff gray silty clay w/clay layers	P = .25 T = .15
35	38.0	39.0	38.0		Stiff gray clay	P = .75 T = .5
36	39.0	40.0			Ditto	P = .8 T = .45
37	40.0	41.0			Ditto	P = .7 T = .45
38	41.0	42.0			Ditto	P = .6 T = .6
39	42.0	43.0			Ditto	P = .5 T = .5
40	43.0	44.0			Ditto	P = .5 T = .45
41	44.0	45.0		45.0	Stiff gray clay w/trace of organic matter	P = .5 T = .5
42	45.0	46.0	45.0		Medium stiff gray clay w/sandy silt & clayey silt pockets	P = .25 T = .55
43	46.0	47.0			Medium stiff gray clay w/clayey silt pockets	P = .25 T = .3
44	47.0	48.0		48.5	Medium stiff gray clay w/clayey silt pockets & silty sand pockets	P = .3 T = .3
45	48.0	49.0	48.5	49.0	Compact gray clayey silt w/silty sand pockets	P = .5
46	49.0	50.0	49.0	50.0	Medium dense gray clayey sand w/silty clay layers, silty sand layers & organic matter	P = .25
47	50.0	51.0	50.0	51.0	Loose gray silty sand w/wood & organic matter	
(Continued)						

*Number in first column indicates number of blows of 140-lb. hammer dropped 30 in. required to seat 2-in. O. D. splitspoon sampler 6 in. Number in second column indicates number of blows of 140-lb. hammer dropped 30 in. required to drive 2-in. O. D. splitspoon sampler 1 ft. after seating 6 in.

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Remarks: NOTE: P = Penetrometer reading - shear

strength in tons/sq.ft. T = Torvane reading - shear strength in tons/sq.ft.



Predominant type shown heavy. Modifying type shown light.

(Sheet #3)

LOG OF BORING

Name of Project: Louisiana Power & Light CompanyWaterford Steam Electric Station No. 3 - St. Charles Parish, LouisianaFor: Ebasco Services Inc., New York, New YorkBoring No. 72 Date 23-24 October 1972Ground Elev. 31.14 (Cont'd) Datum MSL Gr. Water Depth _____

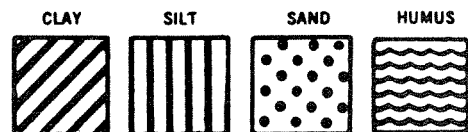
Sample No.	SAMPLE Depth — Feet		DEPTH STRATUM Feet		VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST
	From	To	From	To		
48	51.0	52.0	51.0		Medium stiff gray sandy clay w/silty sand pockets & shells	P = .3 T = .4
49	52.0	53.0			Ditto	P = .3 T = .4
50	53.0	54.0			Ditto	P = .3 T = .4
51	54.0	55.0			Ditto	P = .3 T = .4
52	55.0	56.0		56.0	Medium stiff gray sandy clay w/shell fragments	P = .25 T = .4
53	56.0	57.0	56.0		Soft gray clay w/clayey silt pockets & shell fragments	P = .15 T = .45
54	57.0	58.0		58.0	Ditto	P = .15 T = .2
55	58.0	59.0	58.0	59.0	Loose gray clayey sand w/few decayed roots	P = .1
56	59.0	60.0	59.0		Medium stiff gray clay w/many clayey silt & sandy silt pockets	P = .4 T = .2
57	60.0	61.0			Ditto	P = .3 T = .3
58	61.0	62.0			Medium stiff gray clay w/clayey silt pockets	P = .3 T = .15
59	62.0	63.0			Medium stiff gray clay w/clayey silt & sandy silt pockets & lenses	P = .3 T = .4
60	63.0	64.0			Medium stiff gray clay w/silt pockets & lenses	P = .25 T = .4
61	64.0	65.0			Ditto	P = .25 T = .45
62	65.0	66.0			Medium stiff gray clay w/shell fragments	P = .25 T = .45
63	66.0	67.0			Medium stiff gray clay w/clayey silt pockets & lenses	P = .3 T = .45
64	67.0	68.0			Ditto	P = .3 T = .45

DEPTH IN FT.

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Remarks: NOTE: P = Penetrometer reading - shear strength in tons/sq.ft. T = Torvane reading - shear strength in tons/sq.ft.



Predominant type shown heavy. Modifying type shown light.

LOG OF BORING

Name of Project: Louisiana Power & Light Company
Waterford Steam Electric Station No. 3 - St. Charles Parish, Louisiana
 For: Ebasco Services Inc., New York, New York

Boring No. 72 Date 23-24 October 1972
 (Cont'd)
 Ground Elev. 31.14 Datum MSL Gr. Water Depth _____

Sample No.	SAMPLE Depth — Feet		DEPTH STRATUM Feet		VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
	From	To	From	To			
65	68.0	69.0		69.0	Medium stiff gray clay w/clayey silt	P = .4	T = .45
					pockets		
66	69.0	70.0	69.0		Medium stiff gray & dark gray clay with	P = .4	T = .5
					silty sand & clayey silt pockets		
67	70.0	71.0		71.0	Medium stiff gray & dark gray clay with	P = .25	T = .35
					clayey silt pockets		
68	71.0	72.0	71.0		Very stiff light gray & tan clay with	P = .9	T = .85
					trace of silt		
69	72.0	73.0		73.0	Ditto	P = .9	T = .9
70	73.0	74.0	73.0		Very stiff gray & tan clay w/trace of	P = 1.1	T = 1.5
					silt		
71	74.0	75.0			Ditto	P = 1.25	T = 1.5
72	75.0	76.0			Ditto	P = 1.7	T = 1.4
73	76.0	77.0			Very stiff gray & tan clay w/trace of	P = 1.5	T = 1.4
					silt & concretions		
74	77.0	78.0			Ditto	P = 1.25	T = 1.8
75	78.0	79.0			Ditto	P = 1.5	T = 1.5
76	79.0	80.0			Ditto	P = 1.5	T = .8
77	80.0	81.0		81.5	Ditto	P = 1.0	T = 1.1
78	81.5	83.0	81.5	83.5	Medium dense tan silty sand	13	29
79	83.5	85.0	83.5	85.0	Stiff tan silty clay w/clayey silt	3	14
					layers		
80	85.0	86.0	85.0		Very stiff tan & gray clay w/trace of	P = 1.0	T = 1.3
					silt		
81	86.0	87.0			Ditto	P = 1.15	T = 1.3
					(Continued)		

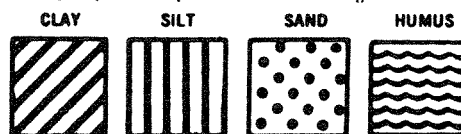
DEPTH IN FT.

*Number in first column indicates number of blows of 140-lb. hammer dropped 30 in. required to seat 2-in. O. D. splitspoon sampler 6 in. Number in second column indicates number of blows of 140-lb. hammer dropped 30 in. required to drive 2-in. O. D. splitspoon sampler 1 ft. after seating 6 in.

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Remarks: NOTE: P = Penetrometer reading - shear

strength in tons/sq.ft. T = Torvane reading - shear strength in tons/sq.ft.



Predominant type shown heavy. Modifying type shown light.

LOG OF BORING

Name of Project: Louisiana Power & Light Company
Waterford Steam Electric Station No. 3 - St. Charles Parish, Louisiana

For: Ebasco Services Inc., New York, New York

Boring No. 72 Date 23-24 October 1972
 (Cont'd)

Ground Elev. 31.14 Datum MSL Gr. Water Depth _____

Sample No.	SAMPLE Depth — Feet		DEPTH STRATUM Feet		VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST
	From	To	From	To		
82	87.0	88.0			Very stiff tan & gray clay w/clayey silt lenses	P = 1.5 T = 1.3
83	88.0	89.0			Very stiff tan & gray clay w/trace of silt	P = 1.0 T = 1.3
84	89.0	90.0			Ditto	P = 1.0 T = 1.3
85	90.0	91.0			Very stiff tan & gray clay w/clayey silt lenses	P = 1.0 T = 1.1
86	91.0	92.0		92.0	Very stiff tan & gray clay	P = 1.15 T = 1.3
87	92.0	93.0	92.0	93.0	Stiff tan & gray clay	P = .95 T = 1.4
88	93.0	94.0	93.0		Very stiff tan & gray clay	P = 1.0 T = 1.1
89	94.0	95.0			Ditto	P = 1.0 T = 1.3
90	95.0	96.0		96.0	Very stiff tan & gray clay w/few tiny shell fragments	P = 1.05 T = 1.4
91	96.0	97.0	96.0		Loose tan clayey silt w/trace of sand	P = .15
92	97.0	98.0		98.0	Ditto	P = .15
93	98.0	99.0	98.0	99.0	Stiff tan & gray clay w/few clayey silt pockets & concretions	P = .9
94	99.0	100.0	99.0		Very stiff tan & gray clay	P = 1.25 T = 1.1
95	100.0	101.0			Very stiff tan & gray clay w/trace of silt	P = 1.05 T = .1
96	101.0	102.0			Ditto	P = 1.2 T = .1
97	102.0	103.0			Ditto	P = 1.1 T = 1.1
98	103.0	104.0			Very stiff tan & gray clay w/few tiny shell fragments	P = 1.3 T = 1.3
99	104.0	105.0		105.0	Very stiff tan & gray clay	P = 1.0 T = 1.0
100	105.0	106.0	105.0	106.0	Stiff tan & gray sandy clay	P = .6

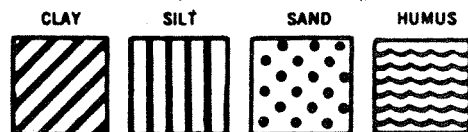
DEPTH IN FT.

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Remarks: NOTE: P = Penetrometer reading - shear

strength in tons/sq.ft. T = Torvane reading -
 shear strength in tons/sq.ft.



Predominant type shown heavy. Modifying type shown light.

(Sheet #6)

LOG OF BORING

Name of Project: Louisiana Power & Light Company
Waterford Steam Electric Station No. 3 - St. Charles Parish, Louisiana

For: Ebasco Services Inc., New York, New York

Boring No. 72
(Cont'd)

Date 23-24 October 1972

Ground Elev. 31.14 Datum MSL Gr. Water Depth

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*Number in first column indicates number of blows of 140-lb. hammer dropped 30 in. required to seat 2-in. O. D. splitspoon sampler 6 in. Number in second column indicates number of blows of 140-lb. hammer dropped 30 in. required to drive 2-in. O. D. splitspoon sampler 1 ft. after seating 6 in.

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Remarks: NOTE: P = Penetrometer reading - shear

strength in tons/sq.ft. T = Torvane reading -

shear strength in tons/sq.ft.

CLAY SILT SAND HUMUS

Predominant type shown heavy. Modifying type shown light.

LOG OF BORING

Sheet 1 of 5

Name of Project: Louisiana Power & Light Company

Waterford Steam Electric Station No. 3 - St. Charles Parish, Louisiana

For: Ebasco Services Inc., New York, New York

Boring No. 73

Date 5 & 6 Oct. 1972

Ground Elev. -4.5 Datum MSL Gr. Water Depth

Sample No.	SAMPLE Depth - Feet		DEPTH STRATUM Feet		VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
	From	To	From	To			
			0.0	1.0	Loose gray silty clay		
1	1.0	2.0	1.0		Medium stiff gray & tan clay	P=.4 T=3.5	
2	2.0	3.0		3.0	Ditto	P=.4 T=.45	
3	3.0	4.0	3.0		Soft gray & tan clay w/clayey silt pockets	P=.1 T=.4	
4	4.0	5.0		5.0	Ditto	P=.4 T=.4	
5	5.0	6.0	5.0	6.0	Soft gray clay w/silty clay layers & clayey silt pockets	P=.2 T=.2	
6	6.0	7.0	6.0		Medium stiff gray clay w/silty clay layers & clayey silt pockets	P=.3 T=.15	
7	7.0	8.0		8.0	Medium stiff gray clay w/clayey silt layers & pockets	P=.3 T=.15	
8	9.0	10.0	8.0	10.0	Very loose gray clayey silt w/sandy silt layers		
9	10.0	11.0	10.0		Loose gray sandy silt w/clayey silt layers		
10	11.0	12.0			Loose gray sandy silt		
11	12.0	13.0			Ditto		
12	13.0	14.0		14.5	Loose gray sandy silt w/few clayey silt layers	P=.2 T=.1	
13	14.0	15.0	14.5		Medium stiff gray clay w/some organic matter & silty sand pockets	P=.25 T=.1	
14	15.0	16.0			Medium stiff gray clay w/shells & shell fragments	P=.25 T=.23	
15	16.0	17.0			Medium stiff gray clay w/clayey silt pockets & shell fragments	P=.3 T=.3	

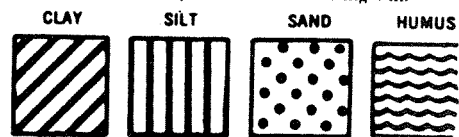
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Remarks: NOTE: P = Penetrometer reading - shear

strength in tons/sq.ft. T = Torvane reading -

shear strength in tons/sq.ft.



Predominant type shown heavy. Modifying type shown light.

(Sheet #1)

LOG OF BORING

Sheet 2 of 5

Name of Project: Louisiana Power & Light Company
Waterford Steam Electric Station No. 3 - St. Charles Parish, Louisiana
 For: Ebasco Services Inc., New York, New York

Boring No. 73 Date 5 & 6 Oct. 1972
 (Cont'd)
 Ground Elev. -4.5 Datum MSL Gr. Water Depth _____

Sample No.	SAMPLE Depth — Feet		DEPTH STRATUM Feet		VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST
	From	To	From	To		
16	17.0	18.0			Medium stiff gray clay w/clayey silt	P=.3 T=.3
					pockets & shell fragments	
17	18.5	19.0			Medium stiff gray clay w/clayey silt	P=.3 T=.25
					pockets	
18	19.5	20.0		20.0	Ditto	P=.35 T=.3
19	20.0	21.0	20.0		Medium compact gray clayey silt with	P=.3 T=.15
					trace of sand & few clay pockets	
20	21.0	22.0		22.5	Ditto	P=.35 T=.1
21	22.0	23.0	22.5		Medium stiff gray clay w/sandy silt	P=.4 T=.17
					pockets & lenses	
22	23.0	24.0			Ditto	P=.35 T=.25
23	24.0	25.0			Ditto	P=.25 T=.25
24	25.0	26.0			Ditto	P=.3 T=.2
25	26.0	27.0			Ditto	P=.3 T=.26
26	27.0	28.0			Ditto	P=.3 T=.3
27	28.0	29.0			Ditto	P=.3 T=.25
28	29.0	30.0		30.0	Ditto	P=.3 T=.23
29	30.0	31.0	30.0		Medium stiff gray clay w/few clayey	P=.3 T=.35
					silt pockets	
30	31.0	32.0			Ditto	P=.3 T=.34
31	32.0	33.0		33.0	Ditto	P=.3 T=.34
32	33.0	34.0	33.0	34.0	Soft dark gray & brown silty clay with	P=.2 T=.36
					some organic matter	
33	34.0	35.0	34.0	35.0	Stiff gray & tan clay	P=.56 T=.55
34	35.0	36.0	35.0		Stiff gray & tan silty clay	P=.7 T=.76
					Continued	

DEPTH IN FT.

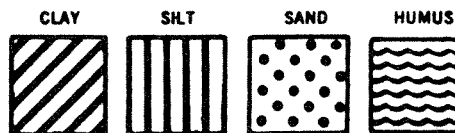
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Remarks: NOTE: P = Penetrometer reading - shear

strength in tons/sq.ft. T = Torvane reading -

shear strength in tons/sq.ft.



Predominant type shown heavy. Modifying type shown light.

(Sheet #2)

LOG OF BORING

Sheet 3 of 5

Name of Project: Louisiana Power & Light Company
Waterford Steam Electric Station No. 3 - St. Charles Parish, Louisiana

For: Ebasco Services Inc., New York, New York

Boring No. 73 Date 5 & 6 Oct. 1972

Ground Elev. (Cont'd) -4.5 Datum MSL Gr. Water Depth _____

Sample No.	SAMPLE Depth - Feet		DEPTH STRATUM Feet		VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST
	From	To	From	To		
35	36.0	37.0			Very stiff gray & tan clay w/trace of silt	P = 1.4 T = 1.8
36	37.0	38.0			Ditto	P = 1.2 T = .8
37	38.0	39.0			Ditto	P = 1.5 T = 1.5
38	39.0	40.0		40.5	Ditto	P = 1.5 T = 1.3
39	40.0	41.0	40.5		Very stiff tan & gray clay w/trace of silt	P = 1.2 T = 1.5
40	41.0	42.0			Very stiff tan & gray clay with concretions & few clayey silt pockets	P = 1.7 T = 1.5
	42.0	43.0			Ditto	P = 1.3 T = 1.0
42	43.0	44.0		44.0	Very stiff tan & gray clay with concretions	P = 1.2 T = 1.0
43	44.0	45.0	44.0	45.0	Stiff tan & gray clay w/clayey silt lenses & pockets	P = .5 T = .3
44	45.0	46.0	45.0	46.5	Compact tan & gray clayey silt w/clay layers & trace of sand	P = .9 T = .3
45	46.0	47.0	46.5		Stiff reddish-tan & gray clay w/many clayey silt & sandy silt lenses	P = .7 T = .5
46	47.0	48.0		48.0	Ditto	P = .8 T = .5
47	48.0	49.0	48.0		Very stiff tan & gray clay w/clayey silt lenses	P = 1.15 T = 2.0
48	49.0	50.0			Ditto	P = 1.2 T = 1.0
49	50.0	51.0			Ditto	P = 1.3 T = .8
50	51.0	52.0			Very stiff tan & gray clay w/clayey silt layers	P = 1.5 T = 1.0
					Continued	

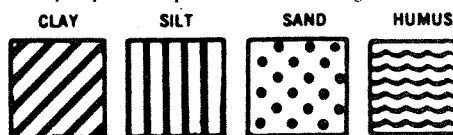
Number in first column indicates number of blows of 140-lb. hammer dropped 30 in. required to seat 2-in. O. D. splitspoon sampler 6 in. Number in second column indicates number of blows of 140-lb. hammer dropped 30 in. required to drive 2-in. O. D. splitspoon sampler 1 ft. after seating 6 in.

NOTE: THIS LOG OF BORING IS CONSIDERED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT ITS RESPECTIVE LOCATION ON THE DATE SHOWN. IT IS NOT WARRANTED THAT IT IS REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

Remarks: NOTE: P = Penetrometer reading - shear

strength in tons/sq.ft. T = Torvane reading -

shear strength in tons/sq.ft.



Predominant type shown heavy. Modifying type shown light.

(Sheet #3)

LOG OF BORING

Sheet 4 of 5

Project: Louisiana Power & Light Company
Waterford Steam Electric Station No. 3 - St. Charles Parish, Louisiana
 For: Ebasco Services Inc., New York, New York

Boring No. 73 Date 5 & 6 Oct. 1972
 (Cont'd)
 Ground Elev. -4.5 Datum MSL Gr. Water Depth _____

Sample No.	SAMPLE Depth — Feet		DEPTH STRATUM Feet		VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST
	From	To	From	To		
51	52.0	53.0			Very stiff tan & gray clay w/few clayey silt pockets	P = 1.5 T = 1.0
52	53.0	54.0			Ditto	P = 1.5 T = 1.3
53	54.0	55.0			Ditto	P = 1.5 T = 1.6
54	55.0	56.0			Very stiff tan & gray clay	P = 1.3 T = 1.0
55	56.0	57.0			Very stiff tan & gray clay w/clayey silt lenses	P = 1.25 T = 1.0
56	57.0	58.0			Very stiff tan & gray clay	P = 1.6 T = 1.0
57	58.0	59.0			Very stiff tan & gray clay w/few clayey silt pockets	T = 1.0
58	59.0	60.0	60.5		Very stiff tan & gray clay	T = .8
59	60.0	61.0	60.5		Stiff tan & gray silty clay with concretions & clayey silt layers	P = .5 T = 1.5
60	61.0	62.0	62.0		Ditto	P = .5 T = 1.3
61	62.0	63.0	62.0		Very stiff tan & gray clay w/few clayey silt pockets	P = 1.4 T = .8
62	63.0	64.0			Ditto	P = 1.3 T = 1.0
63	64.0	65.0			Ditto	P = 1.2 T = 1.5
64	65.0	66.0			Very stiff tan & gray clay w/clayey silt layers	P = .7
65	66.0	67.0	67.0		Very stiff tan & gray clay w/few clayey silt pockets	P = 1.6 T = 1.3
66	67.0	68.0	67.0		Very stiff gray & tan clay w/few clayey silt pockets	P = 1.0 T = .8
67	68.0	69.0			Ditto	P = 1.0 T = 1.3
Continued						

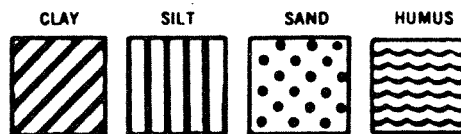
DEPTH IN FT.

Number in first column indicates number of blows of 140-lb. hammer dropped 30 in. required to seat 2-in. O. D. splitspoon sampler 6 in. Number in second column indicates number of blows of 140-lb. hammer dropped 30 in. required to drive 2-in. O. D. splitspoon sampler 1 ft. after seating 6 in.

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Remarks: Note: P = Penetrometer reading - shear

strength in tons/sq.ft. T = Torvane reading - shear strength in tons/sq.ft.



Predominant type shown heavy. Modifying type shown light.

LOG OF BORING

Sheet 5 of 5

Name of Project: Louisiana Power & Light Company

Waterford Steam Electric Station No. 3 - St. Charles Parish, Louisiana

For: Ebasco Services Inc., New York, New York

Boring No. 73

Date 5 & 6 Oct. 1972

Ground Elev. (Cont'd)

-4.5

Datum MSL

Gr. Water Depth

Sample No.	SAMPLE Depth - Feet		DEPTH STRATUM Feet		VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
	From	To	From	To			
68	69.0	70.0			Very stiff gray & tan clay w/clayey sand pockets	P=1.1 T=1.0	
69	70.0	71.0			Very stiff gray & tan clay w/silty sand pockets	P=1.2 T=1.0	
70	71.0	72.0		72.0	Ditto	P=1.1 T=1.0	
71	72.5	74.0	72.0	74.0	Dense brown silty sand	3	45
72	75.0	76.5	74.0		Very dense brown silty sand	12	50
73	78.5	80.0		83.5	Very dense brown silty sand w/few clay pockets	7	50
	83.5	85.0	83.5		Very dense gray silty sand	28	50=7"
	87.5	88.0		88.0	Ditto		
76	88.0	89.0	88.0		Stiff gray clay w/clayey silt lenses & pockets	P=.6 T=.5	
77	89.0	90.0			Stiff gray clay	P=.7 T=.5	
78	90.0	91.0			Ditto	P=.7 T=.5	
79	91.0	92.0			Ditto	P=.7 T=.5	
80	92.0	93.0			Ditto	P=.7 T=.8	
81	93.0	94.0			Ditto	P=.7 T=.5	
82	94.0	95.0			Stiff gray clay w/few clayey silt lenses	P=.7 T=.8	
83	95.0	96.0			Ditto	P=.7 T=.5	
84	96.0	97.0			Ditto	P=.7 T=.8	
85	97.0	98.0			Ditto	P=.7 T=.5	
86	98.0	99.0			Stiff gray clay	P=.75 T=.5	
87	99.0	100.0		100.0	Ditto	P=.75 T=.8	

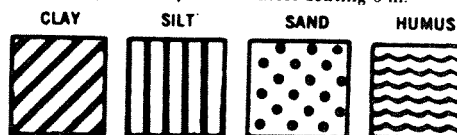
Number in first column indicates number of blows of 140-lb. hammer dropped 30 in. required to seat 2-in. O. D. split spoon sampler 6 in. Number in second column indicates number of blows of 140-lb. hammer dropped 30 in. required to drive 2-in. O. D. split spoon sampler 1 ft. after seating 6 in.

THIS LOG OF BORING IS CONSIDERED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT ITS RESPECTIVE LOCATION ON THE DATE SHOWN, IT IS NOT WARRANTED THAT THIS LOG IS REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

Remarks: NOTE: P = Penetrometer reading - shear

strength in tons/sq. ft. T = Torvane reading -

shear strength in tons/sq. ft.



Predominant type shown heavy. Modifying type shown light.

(Sheet #5)

LOG OF BORING

Sheet 1 of 4

Name of Project: Louisiana Power & Light CompanyWaterford Steam Electric Station No. 3 - St. Charles Parish, LouisianaFor: Ebasco Services Inc., New York, New YorkBoring No. 74 Date 12 & 13 Oct. 1972Ground Elev. -5.6 Datum MSL Gr. Water Depth _____

Sample No.	SAMPLE Depth - Feet		DEPTH STRATUM Feet		VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
	From	To	From	To			
1	0.0	5.0	0.0	5.0	Medium stiff gray & tan clay w/few clayey silt pockets	P = .3	
2	5.5	8.0	5.0	8.0	Medium stiff gray clay w/clayey silt pockets & lenses	P = .25	
3	9.5	11.0	8.0	11.0	Very loose gray silty sand		
4	11.0	12.5	11.0	12.5	Medium dense gray silty sand	3	18
5	12.5	14.0	12.5	14.0	Loose gray silty sand w/trace of clay	4	6
6	14.0	16.5	14.0	17.0	Medium stiff gray clay w/few clayey silt lenses & shell fragments		
7	16.5	18.0	17.0		Medium stiff gray clay w/few sandy silt lenses & trace of organic matter		
8	18.0	21.0		21.0	Medium stiff gray clay w/few sandy silt lenses, trace of organic matter & shell fragments		
9	21.0	22.0	21.0	22.0	Medium dense gray clayey sand		
10	22.0	25.0	22.0	25.0	Soft gray clay w/many clayey silt pockets & lenses	P = .2	
11	25.0	27.5	25.0		Medium stiff gray clay w/sandy silt & clayey silt pockets & lenses	P = .25	
12	27.5	30.0			Medium stiff gray clay w/many sandy silt pockets & lenses	P = .25	
13	30.0	32.0		32.0	Ditto	P = .25	
14	32.0	32.5	32.0	32.5	Medium stiff gray & tan clay w/some silt	P = .25	
15	32.5	35.0	32.5		Very stiff gray & tan clay w/few clayey silt pockets	P = 1.0	
					Continued		

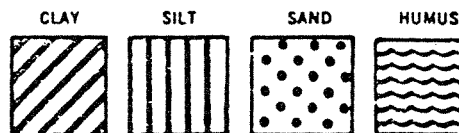
Number in first column indicates number of blows of 140-lb. hammer dropped 30 in. required to seat 2-in. O. D. splitspoon sampler 6 in. Number in second column indicates number of blows of 140-lb. hammer dropped 30 in. required to drive 2-in. O. D. splitspoon sampler 1 ft. after seating 6 in.

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Remarks: NOTE: P = Penetrometer reading - shear

strength in tons/sq.ft. T = Torvane reading -

shear strength in tons/sq.ft.



Predominant type shown heavy. Modifying type shown light.

(Sheet #1)

LOG OF BORING

Sheet 2 of 4

Name of Project: Louisiana Power & Light Company
Waterford Steam Electric Station No. 3 - St. Charles Parish, Louisiana
 For: Ebasco Services Inc., New York, New York

Boring No. 74 Date 12 & 13 Oct. 1972
 (Cont'd)
 Ground Elev. -5.6 Datum MSL Gr. Water Depth 120

Sample No.	SAMPLE Depth - Feet		DEPTH STRATUM Feet		VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST
	From	To	From	To		
16	35.0	37.5		37.5	Very stiff gray & tan clay with concretions & few clayey silt pockets	P = 1.3
17	37.5	40.0	37.5		Very stiff tan & gray clay with concretions & clayey silt pockets	P = 1.4
18	40.0	42.5		42.0	Very stiff tan & gray clay with concretions & clayey silt lenses	P = 1.2
19	42.5	44.5	42.0	44.0	Loose tan & gray clayey silt w/clayey sand layers & clay lenses	
20	44.5	46.0	44.0	46.0	Dense tan silty sand	9 37
21	46.0	47.5	46.0		Very stiff tan & gray clay w/many clayey silt & silty sand lenses	P = 1.3
22	47.5	50.0			Very stiff tan & gray clay w/clayey silt lenses	P = 1.5
23	50.0	52.5			Very stiff tan & gray clay w/clayey silt layers & clayey silt lenses	P = 1.5
24	52.5	55.0			Very stiff tan & gray clay w/clayey silt lenses	P = 1.2
25	55.0	57.5			Very stiff tan & gray clay w/few clayey silt lenses & few concretions	P = 1.4
26	57.5	60.0		60.0	Very stiff tan & gray clay w/few shell fragments & clayey silt pockets & layers	P = 1.4
27	60.0	61.5	60.0	61.0	Very compact tan clayey silt	P = .4
28	61.5	62.5	61.0	63.0	Stiff tan & gray clay	P = .9
29	62.5	65.0	63.0		Very stiff tan & gray clay with concretions & thin clayey silt layers	P = 1.4

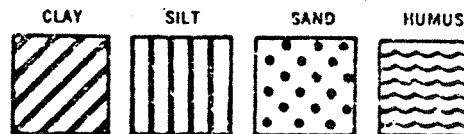
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WHILE THIS LOG OF BORING IS CONSIDERED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT ITS RESPECTIVE LOCATION ON THE DATE SHOWN, IT IS NOT WARRANTED THAT IT IS REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

Remarks: NOTE: P = Penetrometer reading - shear

strength in tons/sq.ft. T = Torvane reading -

shear strength in tons/sq.ft.



Predominant type shown heavy. Modifying type shown light

(Sheet #2)

LOG OF BORING

Sheet 3 of 4

Name of Project: Louisiana Power & Light Company
Waterford Steam Electric Station No. 3 - St. Charles Parish, Louisiana
 For: Ebasco Services Inc., New York, New York

Boring No. 74 Date 12 & 13 Oct. 1972
 (Cont'd)
 Ground Elev. -5.6 Datum MSL Gr. Water Depth _____

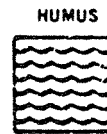
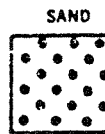
Sample No.	SAMPLE Depth — Feet		DEPTH STRATUM Feet		VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
	From	To	From	To			
30	65.0	66.0		66.0	Very stiff tan & gray clay w/clayey silt pockets	P = 1.2	
31	66.0	67.5	66.0		Very stiff gray & tan clay w/few clayey silt pockets	P = 1.1	
32	67.5	70.0		70.5	Very stiff gray & tan clay w/clayey sand & silty sand pockets & layers	P = 1.0	
33	70.0	71.0	70.5	71.0	Loose tan silty sand		
34	71.0	71.5	71.0	71.5	Very stiff gray clay w/silty sand pockets	P = 1.2	
35	71.5	72.5	71.5	72.5	Loose to medium dense tan silty sand w/clay pockets & lenses		
36	72.5	73.5	72.5	73.5	Loose tan silty sand		
37	73.5	75.0	73.5	75.0	Very dense tan silty sand	18	50
38	75.0	76.5	75.0	76.5	Dense tan silty sand	11	34
39	76.5	78.0	76.5		Very dense tan silty sand w/few sandy clay pockets	14	50=7"
40	78.0	79.5		79.5	Ditto	18	50=10"
41	79.5	81.0	79.5	81.0	Very dense tan & gray silty sand	14	50=10"
42	81.0	82.5	81.0		Very dense gray silty sand	9	50=9"
43	82.5	84.0			Ditto	16	50=8"
44	84.0	85.5		85.5	Ditto	27	50=7"
45	85.5	87.0	85.5	87.0	Dense gray sandy silt w/clay pockets	10	30
46	87.0	88.5	87.0	88.5	Medium dense gray clayey silt w/silty clay layers & clay layers	5	17
47	88.5	90.0	88.5	90.0	Stiff gray clay w/clayey silt lenses & pockets	P = .9	

DEPTH IN FT.

Number in first column indicates number of blows of 140-lb. hammer dropped 30 in. required to seat 2-in. O. D. splitspoon sampler 6 in. Number in second column indicates number of blows of 140-lb. hammer dropped 30 in. required to drive 2-in. O. D. splitspoon sampler 1 ft. after seating 6 in.

IF THIS LOG OF BORING IS CONSIDERED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT ITS RESPECTIVE LOCATION ON THE DATE SHOWN, IT IS NOT WARRANTED THAT IT IS REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

Remarks: NOTE: P = Penetrometer reading - shear



strength in tons/sq.ft. T = Torvane reading - shear strength in tons/sq.ft.

Predominant type shown heavy. Modifying type shown light.

(Sheet #3)

LOG OF BORING

Sheet 4 of 4

Name of Project: Louisiana Power & Light CompanyWaterford Steam Electric Station No. 3 - St. Charles Parish, LouisianaFor: Ebasco Services Inc., New York, New YorkBoring No. 74 Date 12 & 13 Oct. 1972Ground Elev. (Cont'd) -5.6 Datum MSL Gr. Water Depth

Sample No.	SAMPLE Depth — Feet		DEPTH STRATUM Feet		VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
	From	To	From	To			
48	90.0	92.5	90.0		Stiff gray clay w/clayey silt lenses	P = .8	
49	92.5	95.0			Ditto	P = .6	
50	95.0	97.5			Ditto	P = .5	
51	97.5	100.0			Stiff gray clay w/clayey silt lenses & tiny shell fragments	P = .7	
52	100.0	102.5			Stiff gray clay w/clayey silt & sandy silt lenses and shell fragments	P = .7	
53	102.5	104.0		104.0	Stiff gray clay w/silty sand lenses & shell fragments	P = .7	
54	104.0	105.0	104.0	105.0	Stiff gray clay w/many shell fragments & few concretions	P = .8	
55	105.0	107.5	105.0	107.5	Very stiff gray & brown clay w/much decayed wood	P = 1.05	
56	107.5	108.5	107.5	108.5	Stiff gray clay w/silty sand layers	P = .7	
57	108.5	110.0	108.5		Loose to medium compact gray clayey silt w/trace of sand & roots	3	10
58	110.0	112.5		112.5	Ditto		
59	112.5	115.0	112.5	115.0	Loose gray silty fine sand w/few silty clay layers		
60	115.0	117.5	115.0		Medium stiff gray silty clay w/clayey silt & silty sand layers		
61	117.5	120.0		120.0	Medium stiff gray silty clay w/clayey silt & silty sand lenses & layers		

DEPTH IN FT.

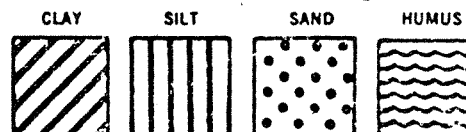
*Number in first column indicates number of blows of 140-lb. hammer dropped 30 in. required to seat 2-in. O. D. splitspoon sampler 6 in. Number in second column indicates number of blows of 140-lb. hammer dropped 30 in. required to drive 2-in. O. D. splitspoon sampler 1 ft. after seating 6 in.

LET THIS LOG OF BORING BE CONSIDERED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT ITS RESPECTIVE LOCATION ON THE DATE SHOWN. IT IS NOT WARRANTED THAT THIS REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

Remarks: NOTE: P = Penetrometer reading - shear

strength in tons/sq.ft. T = Torvane reading -

shear strength in tons/sq.ft.



Predominant type shown heavy. Modifying type shown light.

(Sheet #4)

LOG OF BORING

Name of Project: Louisiana Power & Light Company

Site "X", St. Charles Parish, Louisiana

For: Ebasco Services Incorporated, New York, New York

Date 13 October 1970

Ground Elev. 13 ± (A-1) Datum MSL Gr. Water Depth

Sample No.	SAMPLE Depth — Feet		DEPTH STRATUM Feet		VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
	From	To	From	To			
					<u>SPECIAL AUGER BORING A-1</u>		
	0.0	3.0	0.0		Medium stiff tan & gray silty clay		P = 0.35
					w/clayey silt layers		
	3.0	6.0		6.0	Medium stiff tan & gray silty clay		P = 0.30
					w/clay layers		
	6.0	9.0	6.0	10.0	Soft tan & gray silty clay		P = 0.18
	9.0	12.0	10.0		Soft gray clay w/silty clay layers &		P = 0.15
					roots		
	12.0	15.0		16.0	Soft gray clay w/roots & wood		P = 0.25
	15.0	20.0	16.0	20.0	Medium stiff gray clay w/silty clay		P = 0.40
					pockets & roots		
	20.0	25.0	20.0	27.0	Medium stiff gray & tan clay w/roots &		P = 0.45
					wood (Flocculated)		
	25.0	28.0	27.0	35.0	Loose to medium dense gray silty sand		
	35.0	40.0	35.0		Soft gray clay w/sand pockets		P = 0.20
	40.0	45.0		45.0	Soft gray clay w/clayey sand layers,		P = 0.25
					sand lenses & pockets		
	45.0	50.0	45.0	50.0	Medium stiff gray clay w/sand lenses		P = 0.30
					Boring located 9 feet North of Boring		
					41.		
					Note: P = Penetrometer reading - shear		
					strength in tons per sq. ft.		

*Number in first column indicates number of blows of 140-lb. hammer dropped 30 in. required to seat 2-in. O. D. splitspoon sampler 6 in. Number in second column indicates number of blows of 140-lb. hammer dropped 30 in. required to drive 2-in. O. D. splitspoon sampler 1 ft. after seating 6 in.

REMARKS: WHILE THIS LOG OF BORING IS CONSIDERED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT ITS RESPECTIVE LOCATION ON THE DATE SHOWN, IT IS NOT WARRANTED THAT IT IS REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

Predominant type shown heavy. Modifying type shown light.

LOG OF BORING

Name of Project: Louisiana Power & Light Company

Site "X", St. Charles Parish, Louisiana

For: Ebasco Services Incorporated, New York, New York

Date 13 October 1970Ground Elev. 13 ± Datum MSL Gr. Water Depth _____

Sample No.	SAMPLE Depth — Feet		DEPTH STRATUM Feet		VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
	From	To	From	To			
					SPECIAL AUGER BORING A-2		
	0.5	3.0	0.0		Soft to medium stiff tan & gray silty clay w/clayey silt & clay layers	P=0.30	
	3.0	6.0		7.0	Ditto	P=0.25	
	6.0	9.0	7.0	9.0	Soft tan & gray silty clay w/clayey silt layers	P=0.18	
	9.0	12.0	9.0	13.0	Soft gray silty clay w/clayey silt & clay layers	P=0.15	
	12.0	15.0	13.0		Medium stiff gray clay w/trace of silt	P=0.38	
	15.0	20.0		20.0	Medium stiff gray clay w/silty clay & clay layers	P=0.30	
	20.0	22.5	20.0		Medium stiff gray & tan clay (Flocculated)	P=0.45	
	22.5	25.0		26.0	Ditto	P=0.45	
	25.0	30.0	26.0	31.0	Soft gray & tan silty clay w/clayey silt & thin silty sand layers	P=0.18	
	30.0	35.0	31.0	35.0	Loose gray silty sand w/clay & clayey silt layers		
	35.0	40.0	35.0		Soft gray clay w/sand pockets & shell fragments	P=0.20	
	40.0	45.0		46.0	Soft gray clay w/sand lenses, shell fragments & clayey sand layers	P=0.25	
	45.0	50.0	46.0	50.0	Medium stiff gray clay w/sand lenses & shell fragments	P=0.30	
					(Continued)		

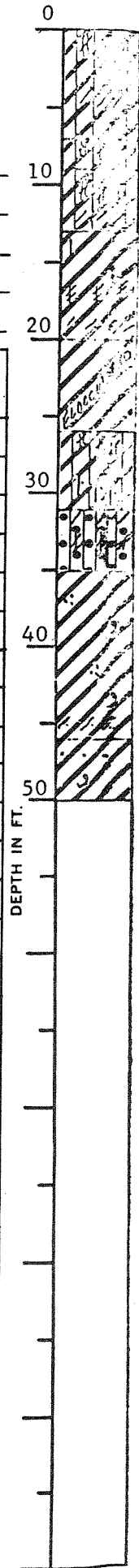
*Number in first column indicates number of blows of 140-lb. hammer dropped 30 in. required to seat 2-in. O. D. splitspoon sampler 6 in. Number in second column indicates number of blows of 140-lb. hammer dropped 30 in. required to drive 2-in. O. D. splitspoon sampler 1 ft. after seating 6 in.

REMARKS: WHILE THIS LOG OF BORING IS CONSIDERED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT ITS RESPECTIVE LOCATION ON THE DATE SHOWN, IT IS NOT WARRANTED THAT IT IS REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.



Predominant type shown heavy. Modifying type shown light.

(Sheet #1)



Name of Project: Louisiana Power & Light Company
Site "X", St. Charles Parish, Louisiana
For: Ebasco Services Incorporated, New York, New York

Ground Elev. 13± Datum MSL Gr. Water Depth

[illegible]

REMARKS: WHILE THIS LOG OF BORING IS CONSIDERED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT ITS RESPECTIVE LOCATION ON THE DATE SHOWN, IT IS NOT WARRANTED THAT IT IS REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

[illegible]

(Sheet #2)

LOG OF BORING

Name of Project: Louisiana Power & Light Company

Site "X", St. Charles Parish, Louisiana

For: Ebasco Services Incorporated, New York, New York

Date 14 October 1970Ground Elev. 13 ± Datum MSL Gr. Water Depth _____

Sample No.	SAMPLE Depth — Feet		DEPTH STRATUM Feet		VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
	From	To	From	To			
					SPECIAL AUGER BORING A-3		
	0.5	3.0	0.0	3.0	Loose tan & gray clayey silt w/silty clay layers		
	3.0	6.0	3.0		Soft tan & gray silty clay w/clay pockets	P=0.25	
	6.0	9.0		9.0	Ditto	P=0.18	
	9.0	12.0	9.0	13.0	Soft gray clay w/silty clay pockets & sand lenses	P=0.15	
	12.0	15.0	13.0	15.0	Medium stiff gray clay (Flocculated)	P=0.45	
	15.0	18.0	15.0	18.0	Soft gray silty clay w/thin clay layers	P=0.18	
	18.0	21.0	18.0		Medium stiff gray & tan clay (Flocculated)	P=0.40	
	21.0	25.0		27.5	Ditto	P=0.45	
	25.0	28.5	27.5		Loose gray silty sand w/thin clay layers		
	32.5	36.0		36.0	Loose gray silty sand		
	36.0	40.0	36.0		Soft gray clay w/sand pockets & thin clayey sand layers	P=0.20	
	40.0	45.0		45.0	Ditto	P=0.23	
	45.0	50.0	45.0	50.0	Medium stiff gray clay w/sand lenses & few shell fragments	P=0.30	
					Boring located 10 feet North of Boring 29.		
					(Continued)		

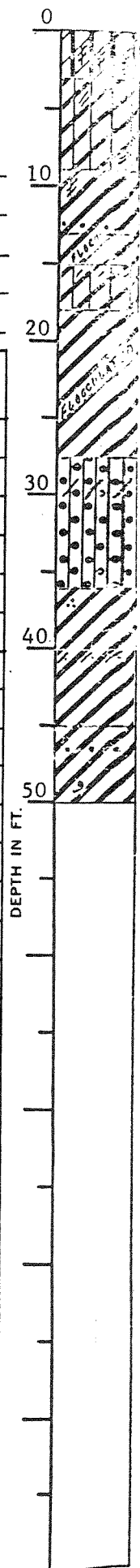
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Predominant type shown heavy. Modifying type shown light.

(Sheet #1)



LOG OF BORING

Name of Project: Louisiana Power & Light Company

Site "X", St. Charles Parish, Louisiana

For: Ebasco Services Incorporated, New York, New York

Date 14 October 1970

Ground Elev. 13⁺ Datum MSL Gr. Water Depth

[illegible]

*Number in first column indicates number of blows of 140-lb. hammer dropped 30 in. required to seat 2-in. O. D. splitspoon sampler 6 in. Number in second column indicates number of blows of 140-lb. hammer dropped 30 in. required to drive 2-in. O. D. splitspoon sampler 1 ft. after seating 6 in.

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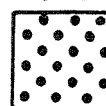
CLAY



SILT



SAND



Predominant type shown heavy. Modifying type shown light.