

WSES-FSAR-UNIT-3

APPENDIX 2.5B

LOG OF BORING



WSES-FSAR-UNIT-3

APPENDIX 2.5B

BORING LOSS

LEGEND - TABULAR INFORMATION

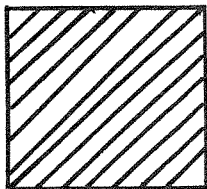
P Indicate CL-700 Pocket Penetrometer test result performed in the end of thin wall undisturbed tube samples. (Results in tsf).

T Indicates CL-600 Torevane Shear test result performed in the end of thin wall undisturbed tube samples. (Results in tsf).

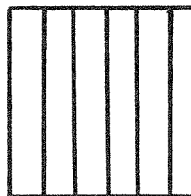
The first numerical value in Standard Penetration Test column indicates the number of blows of 140 lb. hammer dropped 30 in. required to seat a two in. O.D. splitspoon sampler six in. The second numerical value in the column indicates the number of blows of a 140 lb. hammer dropped 30 in. required to drive a two in. O.D. splitspoon sampler one ft. after seating six in. (Test in accordance with ASTM D 1586 "Penetration Test and Split-Barrel Sampling of Soils").

LEGEND - SCHEMATIC INFORMATION

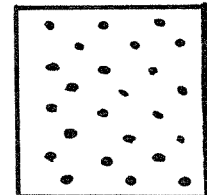
CLAY



SILT



SAND



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. 1Date 3 September 1970Ground Elev. 14.99 Datum MSL Gr. Water Depth 1.5' (Auger Hole)

Sample No.	SAMPLE Depth — Feet		DEPTH STRATUM Feet		VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
	From	To	From	To			
			0.0	2.5	Sand & shells		
1	4.5	5.0	2.5	6.0	Medium stiff tan & gray silty clay	P: 0.40 T: 0.45	
2	7.5	8.0	6.0	9.0	Soft to medium stiff tan & gray silty clay	P: 0.30 T: 0.30	
3	10.5	11.0	9.0	12.0	Soft gray clay w/organic matter	P: 0.20 T: 0.25	
4	14.5	15.0	12.0	16.0	Medium stiff gray silty clay w/roots	P: 0.50 T: 0.50	
5	19.5	20.0	16.0	21.0	Medium stiff gray & tan silty clay with roots	P: 0.38 T: 0.45	
6	24.5	25.0	21.0	26.0	Stiff gray & tan clay	P: 0.62 T: 0.60	
7	29.5	30.0	26.0	31.0	Soft gray silty clay	P: 0.13 T: 0.15	
8	34.5	35.0	31.0	38.0	Very soft to soft gray silty clay with sand & shell pockets	P: 0.13 T: 0.20	
9	39.5	40.0	38.0	41.0	Medium compact gray sandy silt	P: 0.87 T: 0.35	
10	44.5	45.0	41.0		Soft gray clay w/silt lenses & layers	P: 0.25 T: 0.30	
11	49.5	50.0		53.5	Ditto	P: 0.23 T: 0.30	
12	54.5	55.0	53.5		Stiff greenish-gray & tan silty clay	P: 0.62 T: 0.80	
13	57.0	57.5		58.5	Ditto	P: 0.75 T: 0.70	
14	58.5	60.0	58.5		Stiff to very stiff tan & gray clay	8 19	
15	62.5	63.0		63.5	Ditto	P: 1.10 T: 0.90	
16	63.5	65.0	63.5	65.0	Medium dense tan & gray silty sand with clay layers	3 15	
17	67.0	67.5	65.0		Stiff to very stiff tan & gray fissured clay w/silty sand layers	P: 1.10 T: 1.00	
18	68.5	70.0		70.0	Ditto	6 18	
19	72.5	73.0	70.0		Stiff to very stiff tan & gray clay	P: 1.25 T: 1.0+	
20	73.5	75.0			Ditto	6 16	

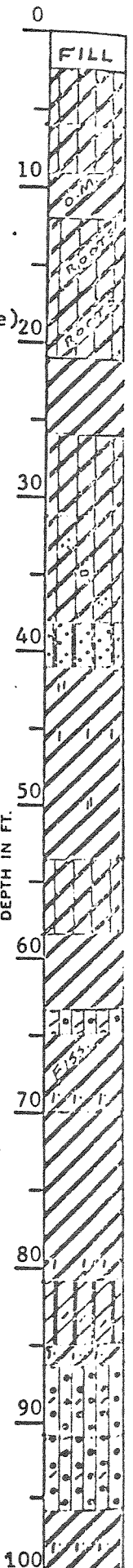
\*Number in first column indicates number of blows of 140-lb. hammer dropped 30 in. required to seat 2-in. O. D. split spoon sampler 6 in. Number in second column indicates number of blows of 140-lb. hammer dropped 30 in. required to drive 2-in. O. D. split spoon sampler 1 ft. after seating 6 in.

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)





# 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. 1 (Cont'd) Date 3 September 1970

Ground Elev. 14.99 Datum MSL Gr. Water Depth 1.5' (Auger Hole)

[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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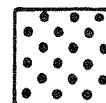
CLAY



**SILT**



**SAND**



**Predominant type shown heavy. Modifying type shown light.**



## LOG OF BORING

Name of Project: Louisiana Power & Light Company

Site "X", St. Charles Parish, Louisiana

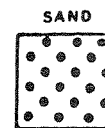
For: Ebasco Services Incorporated, New York, New York

Boring No. 2 Date 3 September 1970Ground Elev. 14.99 Datum MSL Gr. Water Depth 3.8' (Auger Hole)

Sample No.	SAMPLE Depth — Feet		DEPTH STRATUM Feet		VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
	From	To	From	To			
1	2.5	3.0	0.0	3.0	Medium stiff gray & tan silty clay with clayey silt layers & brick fragments	P=0.38	
2	5.5	6.0	3.0	6.0	Soft tan & gray silty clay w/clayey silt layers & concretions	P=0.20	
3	8.5	9.0	6.0	9.0	Soft gray clay w/roots & wood	P=0.12	
			9.0	15.0	Wood		
4	19.5	20.0	15.0	21.0	Medium stiff gray clay w/silt pockets (Flocculated)	P=0.40	
5	23.0	23.5	21.0		Stiff gray & tan clay (Fissured)	P=0.6	
6	23.5	25.0		25.0	Stiff gray & tan clay w/silty clay layers	3	5
7	27.5	28.0	25.0	28.0	Medium stiff tan & gray silty clay with clay layers	P=0.55	
8	28.5	30.0	28.0	30.0	Loose gray sandy silt w/clay layers	5	11
9	34.5	35.0	30.0		Soft gray clay w/many shell fragments & sand pockets		
10	38.0	38.5			Soft gray clay w/few shell fragments & sand pockets	P=0.25	
11	38.5	40.0			Soft gray clay w/silty sand layers and lenses	1	3
12	44.5	45.0			Ditto	P=0.23	
13	49.5	50.0		51.5	Soft gray clay w/silty sand lenses & pockets	P=0.23	
14	53.0	53.5	51.5	54.5	Medium stiff gray clay w/organic matter & roots	P=0.50	
					(Continued)		

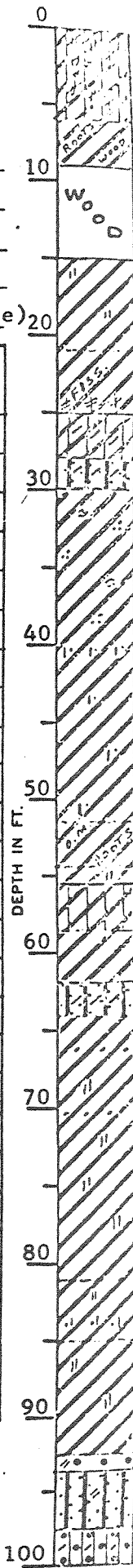
\*Number in first column indicates number of blows of 140-lb. hammer dropped 30 in. required to seat 2-in. O. D. splitspoon sampler 6 in. Number in second column indicates number of blows of 140-lb. hammer dropped 30 in. required to drive 2-in. O. D. splitspoon sampler 1 ft. after seating 6 in.

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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

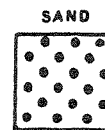
For: Ebasco Services Incorporated, New York, New York

Boring No. 2  
(Cont'd)Date 3 September 1970Ground Elev. \_\_\_\_\_ Datum \_\_\_\_\_ Gr. Water Depth 3.8' (Auger Hole)

Sample No.	SAMPLE Depth — Feet		DEPTH STRATUM Feet		VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
	From	To	From	To			
15	54.5	55.0	54.5	55.5	Medium stiff gray, tan & green clay	P=	050
					w/silt pockets		
16	58.0	58.5	55.5	58.5	Very stiff tan & gray silty clay		
17	58.5	60.0	58.5	62.0	Very stiff tan & gray clay	6	18
18	63.0	63.5	62.0	64.0	Medium compact tan & brown sandy silt		
					w/clay layers		
19	63.5	65.0	64.0		Very stiff tan & gray clay w/sand	4	17
					layers		
20	68.0	68.5			Very stiff tan & gray clay w/sand	P=	130
					layers & silt lenses		
21	68.5	70.0			Very stiff tan & gray clay w/silt	13	19
					lenses		
22	73.0	73.5			Ditto	P=	1.5
23	73.5	75.0			Ditto	7	18
24	78.0	78.5			Ditto	P=	140
25	78.5	80.0		81.0	Ditto	7	16
26	84.5	85.0	81.0	85.0	Stiff tan & gray clay w/silt pockets &	P=	1.0
					sandy silt layers		
27	88.0	88.5	85.0		Very stiff tan & gray clay w/silt	P=	1.4
					pockets (Fissured)		
28	88.5	90.0		92.5	Very stiff tan & gray clay	6	11
29	93.0	93.5	92.5	93.5	Medium dense tan fine sand w/clay		
					lenses		
30	94.0	95.5	93.5	97.5	Compact tan sandy silt w/trace of clay	10	31
31	98.5	100.0	97.5	100.0	Very dense tan silty sand w/thin clay	12	50=10"
					layers		

\*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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Predominant type shown heavy. Modifying type shown light.

(Sheet #2)



# LOG OF BORING

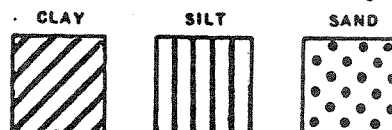
Name of Project: Louisiana Power & Light Company  
Site "X", St. Charles Parish, Louisiana  
For: Ebasco Services Incorporated, New York, New York

Boring No. 2 Date 3 September 1970  
(Cont'd)  
Ground Elev. \_\_\_\_\_ Datum \_\_\_\_\_ Gr. Water Depth 3.8' (Auger Hole)

[illegible]

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**Predominant type shown heavy. Modifying type shown light.**



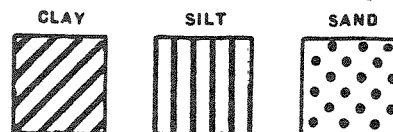
## LOG OF BORING

Name of Project: Louisiana Power & Light Company  
Site "X", St. Charles Parish, Louisiana  
For: Ebasco Services Incorporated, New York, New York  
 Boring No. 3 Date 4 September & 13 & 16 Nov. 1970  
 Ground Elev. 12.27 Datum MSL Gr. Water Depth \_\_\_\_\_

Sample No.	SAMPLE Depth — Feet		DEPTH STRATUM Feet		VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
	From	To	From	To			
1	2.5	3.0	0.0	3.0	Medium stiff tan & gray silty clay with clayey silt layers	P: 0.37 T: 0.30	
2	5.5	6.0	3.0	7.5	Soft tan & gray silty clay w/clayey silt layers	P: 0.15 T: 0.19	
3	8.5	9.0	7.5		Soft gray clay w/sandy silt pockets & roots	P: 0.18 T: 0.20	
4	11.5	12.0			Soft gray clay w/roots	P: 0.25 T: 0.27	
5	14.5	15.0		18.0	Soft gray clay w/roots & organic clay layers	P: 0.20 T: 0.25	
6	19.5	20.0	18.0		Medium stiff gray clay w/silt pockets (Flocculated)	P: 0.30 T: 0.33	
7	24.5	25.0		25.0	Medium stiff gray clay w/roots (Flocculated)	P: 0.50 T: 0.38	
8	29.5	30.0	25.0	31.0	Soft gray clay w/sand lenses	P: 0.20 T: 0.25	
9	34.5	35.0	31.0	36.0	Soft gray clay w/many shell fragments & sand pockets		
10	39.5	40.0	36.0	40.0	Loose gray clayey fine sand w/clay lenses & layers		
11	44.5	45.0	40.0	45.0	Medium stiff gray clay w/sand lenses	P: 0.30 T: 0.30	
12	49.5	50.0	45.0	51.0	Soft gray clay w/sand pockets	P: 0.20 T: 0.25	
13	53.0	53.5	51.0		Stiff to very stiff greenish-gray & tan silty clay w/trace of fine sand	P: 1.20 T: 0.66	
14	53.5	55.0		56.5	Ditto	8	21
15	58.0	58.5	56.5		Very stiff tan & gray clay w/silt lenses & pockets	P: 1.70 T: 1.04	
16	58.5	60.0		62.0	Very stiff tan & gray clay w/concretions	5	14

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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Predominant type shown heavy. Modifying type shown light.



## LOG OF BORING

Name of Project: Louisiana Power &amp; Light Company

Site "X", St. Charles Parish, Louisiana

For: Ebasco Services Incorporated, New York, New York

Boring No. 3  
(Cont'd)4 September &  
Date 13 & 16 Nov. 1970

Ground Elev. 12.27 Datum MSL Gr. Water Depth

Sample No.	SAMPLE Depth — Feet		DEPTH STRATUM Feet		VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
	From	To	From	To			
17	64.0	65.5	62.0	67.0	Medium dense tan silty sand	11	20
18	68.5	70.0	67.0		Very stiff tan & gray clay w/silt pockets	7	16
19	74.5	75.0			Very stiff tan & gray clay	P = 1.40 T = 1.0+	
20	78.0	78.5			Very stiff tan & gray clay w/few concretions	P = 1.40 T = 1.0+	
21	78.5	80.0			Very stiff tan & gray clay	4	10
22	84.5	85.0		86.0	Very stiff tan & gray clay w/fissures	P = 1.50 T = 1.0+	
23	88.0	88.5	86.0		Stiff tan & gray clay	P = 1.00 T = 1.0+	
24	88.5	90.0			Ditto	4	11
25	94.5	95.0		96.0	Stiff tan & gray clay w/sand lenses	P = 1.20 T = 1.0+	
26	98.0	98.5	96.0	99.0	Very stiff greenish-gray & tan clay w/sandy silt lenses & layers	P = 1.20 T = 1.0+	
27	98.5	100.0	99.0	101.0	Medium dense gray silty sand w/clay lenses	10	29
28	104.0	104.5	101.0		Stiff gray clay w/silt lenses	P = 0.62 T = 0.57	
29	108.0	108.5			Ditto	P = 0.62 T = 0.67	
30	108.5	110.0			Ditto	3	8
31	114.0	114.5			Ditto	P = 0.62 T = 0.72	
32	118.0	118.5			Ditto	P = 0.62 T = 0.85	
33	118.5	120.0		123.0	Ditto	3	12
34	124.0	124.5	123.0		Stiff black & gray organic clay w/wood & organic matter	P = 1.00 T = 1.15	
35	128.0	128.5			Ditto	P = 0.75 T = 1.37	
36	128.5	130.0		131.0	Ditto	3	11
					(Cont'd)		

\*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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Predominant type shown heavy. Modifying type shown light.

(Sheet #2)



## LOG OF BORING

Sheet 3 of 6

Name of Project: Louisiana Power & Light Company

Site "X", St. Charles Parish, Louisiana

For: Ebasco Services Incorporated, New York, New York

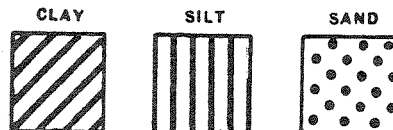
Boring No. 3Date 4 September & 13 & 16 Nov. 1970Ground Elev. (Cont'd) 12.27Datum MSL

Gr. Water Depth

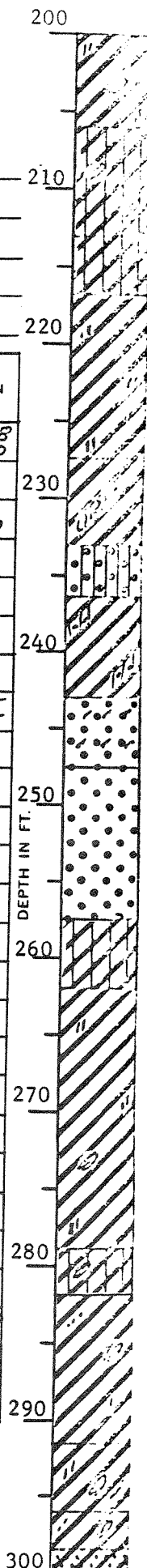
Sample No.	SAMPLE Depth — Feet		DEPTH STRATUM Feet		VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
	From	To	From	To			
37	134.0	134.5	131.0	136.5	Stiff greenish-gray clay w/silt pockets & silty clay lenses	P = 0.88 T = 1.50	
38	138.0	138.5	136.5	138.5	Very stiff greenish-gray clay w/silt pockets & concretions	P = 1.43 T = 1.50	
39	138.5	140.0	138.5	143.5	Very stiff gray silty clay	7	26
40	144.0	144.5	143.5	147.0	Very stiff greenish-gray clay w/silty clay lenses	P = 1.10 T = 1.52	
41	148.0	148.5	147.0	148.5	Hard greenish-gray clay w/silt lenses & shell fragments	P = 2.25 T = 1.75	
42	148.5	150.0	148.5	154.0	Very stiff greenish-gray clay w/silty clay lenses	8	26
43	154.0	154.5	154.0		Very dense gray sand w/clay layers		
44	158.0	158.5			Ditto		
45	158.5	160.0			Ditto	15	51=9"
46	163.5	165.0		166.5	Ditto	20	50=8"
47	168.5	170.0	166.5	173.5	Hard greenish-gray & tan clay w/silty clay lenses & silt pockets	14	35
48	174.0	174.5	173.5		Very stiff greenish-gray & tan clay with silty sand lenses & shell fragments	P = 1.65 T = 0.77	
49	178.0	178.5			Very stiff greenish-gray & tan clay w/silt lenses	P = 1.80 T = 1.00	
50	178.5	180.0			Ditto	12	28
51	183.5	184.0		187.0	Ditto	P = 1.12 T = 1.40	
52	188.0	188.5	187.0	189.0	Medium stiff to stiff greenish-gray silty clay w/shell fragments & clay pockets	P = 0.50 T = 0.50	

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Predominant type shown heavy. Modifying type shown light.



(Sheet #3)



## LOG OF BORING

Sheet 4 of 6

Name of Project: Louisiana Power &amp; Light Company

Site "X", St. Charles Parish, Louisiana

For: Ebasco Services Incorporated, New York, New York

Boring No. 3

Date 4 September &  
13 & 16 Nov. 1970

(Cont'd)

Ground Elev. 12.27

Datum MSL

Gr. Water Depth

Sample No.	SAMPLE Depth — Feet		DEPTH STRATUM Feet		VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
	From	To	From	To			
53	188.5	190.0	189.0	192.5	Very stiff greenish-gray silty clay w/shell fragments & clay pockets	8	17
54	194.0	194.5	192.5		Very stiff gray clay w/silt lenses & shell fragments	P 1.00 T 1.20	
55	198.0	198.5			Ditto	P 1.25 T 1.60	
56	198.5	200.0			Ditto	7	19
57	204.0	204.5		206.5	Very stiff gray clay w/trace of silt	P 1.50 T 2.10	
58	208.0	208.5	206.5		Extremely stiff gray silty clay w/shell fragments	P 2.25 T 1.60	
59	208.5	210.0		213.0	Ditto	5	23
60	214.0	214.5	213.0	217.0	Extremely stiff gray & tan silty clay	P 2.25 T 1.50	
61	218.0	218.5	217.0		Extremely stiff gray & tan clay w/trace of silt	P 2.25 T 2.30	
62	218.5	220.0			Ditto	8	24
63	224.0	224.5		227.5	Ditto	P 2.25 T 1.70	
64	228.0	228.5	227.5		Very stiff brown & gray organic clay w/organic matter	P 1.50 T 1.00	
65	228.5	230.0		233.0	Ditto	5	17
66	234.0	234.5	233.0	236.5	Loose gray silty sand		
67	238.0	238.5	236.5		Stiff gray clay w/silty sand lenses	P 0.90 T 1.20	
68	238.5	240.0		243.0	Stiff gray clay w/silt lenses	7	20
	244.0	244.5	243.0	247.5	Medium dense gray sand w/many clay layers		
	248.0	248.5	247.5		Very dense gray sand		
69	248.5	250.0			Ditto	27	50=8"
70	523.5	255.0		257.5	Ditto	28	50=9"

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.

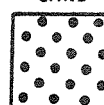
CLAY



SILT



SAND



Predominant type shown heavy. Modifying type shown light.

(Sheet #4)



# LOG OF BORING

Sheet 5 of 6

Name of Project: Louisiana Power & Light Company

Site "X", St. Charles Parish, Louisiana

For: Ebasco Services Incorporated, New York, New York

Boring No. 3 <sup>4 September &</sup>  
(Cont'd) Date 13 & 16 Nov. 1970

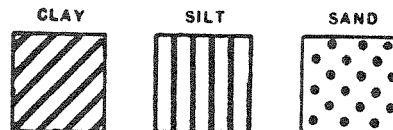
Ground Elev. 12.27 Datum MSL Gr. Water Depth \_\_\_\_\_

Sample No.	SAMPLE Depth — Feet		DEPTH STRATUM Feet		VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
	From	To	From	To			
71	258.5	260.0	257.5	262.0	Very stiff gray silty clay	7	18
72	264.0	264.5	262.0		Very stiff gray clay w/silt lenses		P 1.25 T 1.30
73	268.0	268.5			Very stiff gray clay w/silt lenses & shell fragments		P 1.05 T 1.30
74	268.5	270.0			Ditto	7	20
75	274.0	274.5			Ditto		P 1.25 T 0.95
76	278.0	278.5		279.0	Ditto		P 1.00 T 1.50
77	278.5	280.0	279.0	282.0	Very stiff gray silty clay w/shell fragments	7	17
78	284.0	284.5	282.0		Very stiff gray clay w/silt lenses & shell fragments		P 1.13 T 1.25
79	288.0	288.5			Ditto		P 1.55 T 1.30
80	288.5	290.0		291.5	Ditto	7	20
81	294.0	294.5	291.5	296.0	Stiff gray clay w/sand lenses & shell fragments		P 0.80 T 1.25
82	298.0	298.5	296.0	298.5	Very stiff gray clay w/sand lenses & shell fragments		P 1.40 T 1.30
83	298.5	300.0	298.5		Hard gray sandy clay w/shell fragments	19	38
	304.0	304.5		305.0	Ditto		
	308.0	308.5	305.0		Very dense gray sand		
84	308.5	310.0			Ditto	28	50=8"
85	313.5	315.0		317.0	Ditto	18	50=9"
86	318.5	320.0	317.0	322.0	Hard gray silty clay w/shell fragments	16	38
87	324.0	324.5	322.0		Very stiff gray clay w/silt lenses & shell fragments		P 1.50 T 0.87
88	328.0	328.5			Ditto		P 1.62 T 0.80

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.

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.



Name of Project: Louisiana Power & Light Company

Site "X", St. Charles Parish, Louisiana

For: Ebasco Services Incorporated, New York, New York

Boring No. 3 Date 13 September & 16 Nov. 1970  
(Cont'd)  
Ground Elev. 12.27 Datum MSL Gr. Water Depth           

Ground Elev. 12.27 Datum MSL Gr. Water Depth

Sample No.	SAMPLE Depth — Feet		DEPTH STRATUM Feet		VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
	From	To	From	To			
89	328.5	330.0			Very stiff gray clay w/silt lenses & shell fragments	8	27
90	334.0	334.5		335.0	Ditto		P 1.62 T 1.60
91	338.0	338.5	335.0	339.0	Very stiff brown clay w/silt pockets & trace of wood		P 1.40 T 2.10
92	338.5	340.0	339.0	341.0	Very stiff brown clay w/sand & silt lenses	11	50=11"
93	343.5	345.0	341.0		Very dense gray sand		50=5" (Seat)
	348.5	350.0			Ditto	12	4" 3
94	353.5	355.0			Ditto		50=2"
	358.5	360.0		360.0	Ditto		50=5" (Seat)
					Note: P = Penetrometer reading - shear strength in tons per sq. ft.		
					T = Torvane reading - shear strength in tons per sq. ft.		
					The 300-pound hammer dropped 30 inches was used from the 358.5 to 360.0-ft. depth.		

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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Predominant type shown heavy. Modifying type shown light.



## LOG OF BORING

Name of Project: Louisiana Power & Light Company

Site "X", St. Charles Parish, Louisiana

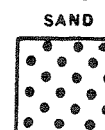
For: Ebasco Services Incorporated, New York, New York

Boring No. 4 Date 4 September 1970Ground Elev. 7.43 Datum MSL Gr. Water Depth \_\_\_\_\_

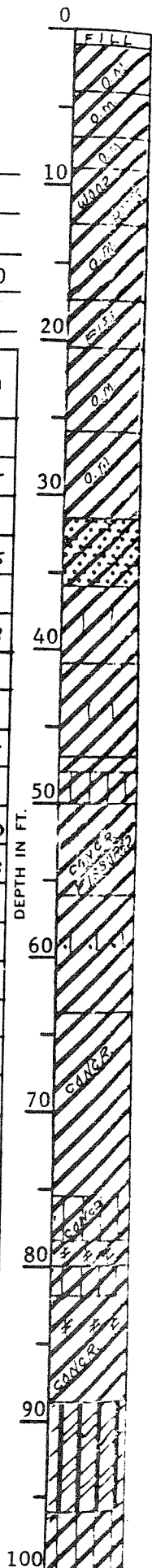
Sample No.	SAMPLE Depth — Feet		DEPTH STRATUM Feet		VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
	From	To	From	To			
			0.0	1.0	Gravel, sand & clay		
1	2.5	3.0		4.0	Stiff brown & gray clay w/trace of organic matter	P=0.85	
2	5.5	6.0	4.0	7.0	Soft to medium stiff gray & tan clay w/trace of organic matter	P=0.25	
3	8.5	9.0	7.0	9.0	Soft gray clay w/some organic matter	P=0.23	
4	11.5	12.0	9.0	12.5	Very soft to soft gray clay w/wood & roots		
5	14.5	15.0	12.5	17.5	Medium stiff gray clay w/trace of organic matter	P=0.35	
6	19.5	20.0	17.5	20.5	Medium stiff gray & tan clay w/fissures	P=0.40	
7	24.5	25.0	20.5	26.0	Soft gray clay w/some organic matter	P=0.23	
8	29.5	30.0	26.0	31.5	Very soft to soft gray clay w/some organic matter	P=0.12	
9	34.5	35.0	31.5	36.0	Very soft gray sandy clay		
10	39.5	40.0	36.0	41.0	Very soft to soft gray clay w/silt lenses	P=0.12	
11	44.5	45.0	41.0	47.0	Soft gray clay w/silt lenses	P=0.15	
12	47.0	47.5	47.0	48.0	Medium stiff greenish-gray & tan clay	P=0.40	
13	49.5	50.0	48.0	50.0	Stiff to very stiff greenish-gray & tan silty clay	P=1.35	
14	52.5	53.0	50.0		Stiff to very stiff tan & gray fissured clay w/concretions		
15	53.5	55.0		56.0	Ditto	8	21
16	57.5	58.0	56.0		Stiff tan & gray clay w/sandy silt layers	P=0.70	

\*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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Predominant type shown heavy. Modifying type shown light.





## LOG OF BORING

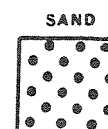
Name of Project: Louisiana Power & Light CompanySite "X", St. Charles Parish, LouisianaFor: Ebasco Services Incorporated, New York, New YorkBoring No. 4  
(Cont'd)Date 4 September 1970Ground Elev. 7.48 Datum MSL Gr. Water Depth \_\_\_\_\_

Sample No.	SAMPLE Depth — Feet		DEPTH STRATUM Feet		VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
	From	To	From	To			
17	58.5	60.0			Stiff tan & gray clay w/sandy silt layers	6	20
18	62.5	63.0		63.5	Ditto		$P=0.85$
19	63.5	65.0	63.5		Stiff to very stiff tan & gray clay w/concretions	6	17
20	67.5	68.0			Ditto		$P=1.0$
21	68.5	70.0			Ditto	3	10
22	72.5	73.0			Ditto		$P=0.85$
23	73.5	75.0		75.5	Ditto	6	19
24	77.5	78.0	75.5	78.5	Stiff to very stiff tan & gray silty clay w/concretions		$P=1.0$
25	78.5	80.0	78.5	80.0	Stiff tan & gray clay w/silty clay layers	4	9
26	81.5	82.0	80.0	82.0	Medium stiff tan & gray silty clay		$P=0.38$
27	84.5	85.0	82.0		Stiff to very stiff tan & gray clay w/silty clay layers & concretions		$P=0.75$
28	87.5	88.0		89.0	Ditto		$P=1.1$
29	88.5	90.0	89.0		Compact tan & gray clayey silt w/clay layers	9	22
30	93.5	95.0		96.0	Ditto	7	28
31	99.5	100.0	96.0	100.0	Stiff gray silty clay		$P=0.85$
					Note: P = Penetrometer reading - shear strength in tons per sq. ft.		

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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Predominant type shown heavy. Modifying type shown light.



# LOG OF BORING

Sheet 1 of 6

Name of Project: Louisiana Power & Light Company

Site "X", St. Charles Parish, Louisiana

For: Ebasco Services Incorporated, New York, New York

Boring No. 5

Date 8 September & 10 November 1970

Ground Elev. 7.35 Datum MSL Gr. Water Depth 1.0' (Auger Hole)

Sample No.	SAMPLE Depth — Feet		DEPTH STRATUM Feet		VISUAL CLASSIFICATION	STANDARD PENETRATION TEST
	From	To	From	To		
1	2.5	3.0	0.0	3.0	Stiff to very stiff tan & gray silty clay w/roots	P = 1.5
2	5.5	6.0	3.0	6.5	Medium stiff tan & gray clay	P = 0.35 T = 0.35
3	8.5	9.0	6.5	10.0	Soft gray clay w/some organic matter	P = 0.23 T = 0.25
4	11.5	12.0	10.0	13.0	Medium stiff gray clay w/some organic matter	P = 0.45 T = 0.45
5	14.5	15.0	13.0	18.0	Medium stiff gray clay w/silt lenses	P = 0.33 T = 0.39
6	19.5	20.0	18.0	22.0	Medium stiff to stiff gray & tan clay w/trace of organic matter	P = 0.47 T = 0.60
7	24.5	25.0	22.0		Soft gray clay w/organic matter	P = 0.15 T = 0.20
8	29.5	30.0		32.0	Ditto	P = 0.19 T = 0.20
9	34.5	35.0	32.0	37.0	Very soft to soft gray sandy clay with shell fragments	P = 0.13 T = 0.15
10	39.5	40.0	37.0		Soft gray clay w/silt lenses	P = 0.13 T = 0.20
11	44.5	45.0			Ditto	P = 0.15 T = 0.20
12	49.5	50.0		52.5	Ditto	P = 0.20 T = 0.30
13	54.5	55.0	52.5	56.5	Stiff to very stiff greenish-gray & tan clay w/concretions & fissures	P = 1.60 T = 1.50
14	57.5	58.0	56.5	58.0	Stiff tan & gray clay w/silt layers	P = 0.85 T = 0.80
15	58.5	60.0	58.0	60.0	Compact tan & gray clayey silt w/clay layers	5 22
16	62.5	63.0	60.0		Stiff tan & gray clay w/silt lenses & fissures	P = 1.05 T = 1.10
17	63.5	65.0			Ditto	3 11
18	67.5	68.0			Ditto	P = 0.85 T = 0.88
19	68.5	70.0			Ditto	5 13

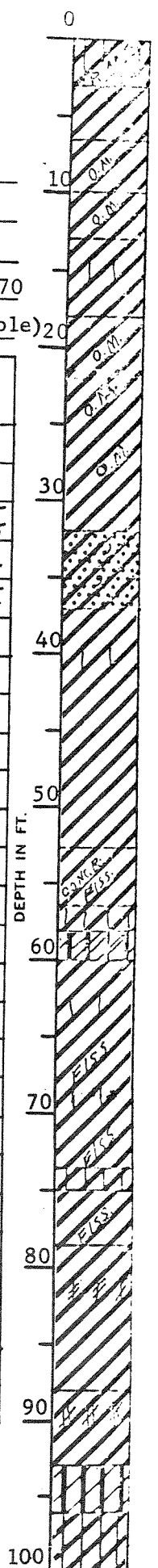
\*Number in first column indicates number of blows of 140-lb. hammer dropped 30 in. required to seat 2-in. O. D. splitspoon sampler 6 in. Number in second column indicates number of blows of 140-lb. hammer dropped 30 in. required to drive 2-in. O. D. splitspoon sampler 1 ft. after seating 6 in.

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Predominant type shown heavy. Modifying type shown light.

(Sheet #1)





# LOG OF BORING

Sheet 2 of 6

Name of Project: Louisiana Power & Light Company

Site "X", St. Charles Parish, Louisiana

For: Ebasco Services Incorporated, New York, New York

Boring No. 5

Date 8 September &  
10 November 1970

(Cont'd)

Ground Elev. 7.35

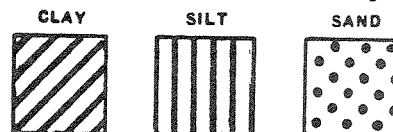
Datum MSL

Gr. Water Depth 1.0' (Auger Hole)

Sample No.	SAMPLE Depth — Feet		DEPTH STRATUM Feet		VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
	From	To	From	To			
20	72.5	73.0		73.5	Stiff tan & gray clay w/silt lenses & fissures	P = 0.95 T = 0.90	
21	73.5	75.0	73.5	75.0	Stiff tan & gray silty clay	3	12
22	77.5	78.0	75.0	78.5	Stiff to very stiff tan & gray clay w/fissures	P = 1.20 T = 1.10	
23	78.5	80.0	78.5		Stiff tan & gray clay w/silty clay layers	5	17
24	84.5	85.0			Ditto	P = 0.90 T = 0.95	
25	87.5	88.0		88.0	Ditto	P = 0.65 T = 0.75	
26	88.5	90.0	88.0	93.0	Stiff tan & gray clay	5	13
27	94.5	95.0	93.0	96.0	Compact tan & gray clayey silt		
28	97.5	98.0	96.0		Medium stiff to stiff gray silty clay	P = 0.50 T = 0.55	
29	98.5	100.0		103.0	Ditto	4	11
30	104.5	105.0	103.0		Medium stiff to stiff gray clay w/few clayey silt pockets	P = 0.55	
31	108.0	108.5			Medium stiff to stiff gray clay	P = 0.60	
32	108.5	110.0			Stiff gray clay w/few clayey silt pockets & shell fragments	5	15
33	114.5	115.0			Stiff gray clay	P = 0.65	
34	118.0	118.5		118.5	Stiff gray clay w/silt lenses & shell fragments	P = 0.75	
35	118.5	120.0	118.5	120.5	Very stiff gray & brown organic clay w/peat layers & wood	13	32
36	124.5	125.0	120.5	125.0	Loose gray clayey silt w/sandy silt & clay pockets & layers		
37	128.0	128.5	125.0	128.5	Loose gray sandy silt w/trace of clay	P = 0.45	

\*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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Predominant type shown heavy. Modifying type shown light.

(Sheet #2)



# LOG OF BORING

Sheet 3 of 6

Name of Project: Louisiana Power & Light Company

Site "X", St. Charles Parish, Louisiana

For: Ebasco Services Incorporated, New York, New York

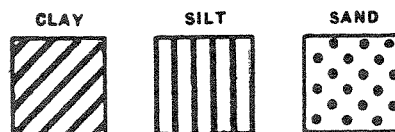
Boring No. 5 Date 8 September & 10 November 1970

Ground Elev. 735 Datum MSL Gr. Water Depth \_\_\_\_\_

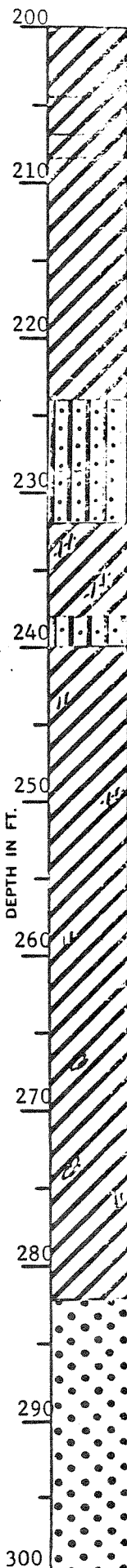
Sample No.	SAMPLE Depth — Feet		DEPTH STRATUM Feet		VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
	From	To	From	To			
38	128.5	130.0	128.5		Very dense gray silty sand	16	50=11"
39	133.5	135.0		137.0	Ditto	25	50=7"
40	138.5	140.0	137.0	140.0	Stiff gray clay w/many clayey silt	7	19
					pockets & layers		
41	144.5	145.0	140.0		Medium stiff gray clay w/many clayey	P=0.45	
					silt pockets & layers		
42	148.0	148.5		148.0	Stiff gray clay w/clayey silt lenses,	P=0.65	
					layers & silty sand layers		
43	148.5	150.0	148.0		Very dense gray silty sand	25	50=8"
44	153.5	155.0		155.5	Ditto	17	50=10"
45	158.5	160.0	155.5	161.0	Very stiff gray clay	7	30
46	164.5	165.0	161.0		Very stiff tan & gray clay	P=1.95	
47	168.0	168.5			Ditto	P=2.00	
48	168.5	170.0			Very stiff tan & gray clay w/silt	11	30
					pockets		
49	174.5	175.0			Very stiff tan & gray clay w/silt	P=1.85	
					lenses		
50	178.0	178.5			Ditto	P=1.40	
51	178.5	180.0			Very stiff tan & gray clay	8	21
52	184.5	185.0		187.5	Very stiff tan & gray clay w/silt	P=1.20	
					lenses		
53	188.0	188.5	187.5		Very stiff gray clay	P=1.30	
54	188.5	190.0		190.0	Very stiff gray clay w/few silt lenses	7	21
55	194.5	195.0	190.0	197.5	Stiff gray clay w/silt lenses, sand	P=0.90	
					pockets & shell fragments		
56	198.0	198.5	197.5		Very stiff green & gray clay	P=2.00	

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Predominant type shown heavy. Modifying type shown light.



(Sheet #3)



# LOG OF BORING

Sheet 4 of 6

Name of Project: Louisiana Power & Light Company

Site "X", St. Charles Parish, Louisiana

For: Ebasco Services Incorporated, New York, New York

Boring No. 5

Date 8 September & 10 November 1970

Ground Elev. (Cont'd) 7.35

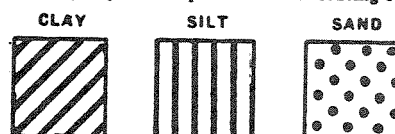
Datum MSL

Gr. Water Depth

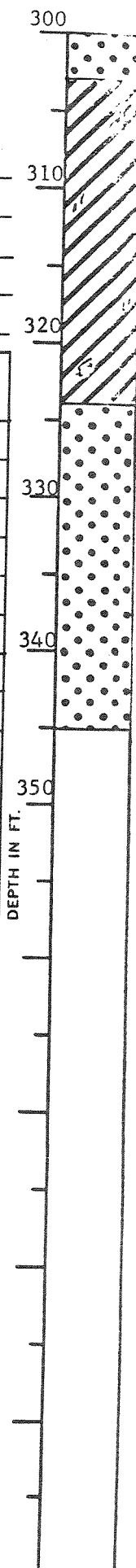
Sample No.	SAMPLE Depth — Feet		DEPTH STRATUM Feet		VISUAL CLASSIFICATION	STANDARD PENETRATION TEST	
	From	To	From	To			
57	198.5	200.0	197.5	204.5	Very stiff green & gray clay	10	33
58	204.5	205.0	204.5	207.0	Very stiff tan & gray clay		P=1.50
59	208.0	208.5	207.0	208.5	Very stiff tan, red & gray fissured clay w/concretions		P=2.05
60	208.5	210.0	208.5		Very stiff tan & gray clay w/concretion	8	32
61	214.5	215.0			Ditto		P 2.00
62	218.0	218.5			Ditto		P. 1.55
63	218.5	220.0		224.0	Very stiff tan & gray clay	8	28
64	224.5	225.0	224.0		Loose to medium compact gray sandy silt		P. 0.55
65	228.0	228.5		228.5	Ditto		
66	228.5	230.0	228.5	232.0	Very compact gray sandy silt	35	50=3"
67	233.5	235.0	232.0	238.0	Very stiff gray clay w/many sandy silt layers	9	30
68	238.5	240.0	238.0	240.0	Very compact gray sandy silt		50=6" (Seat)
69	244.5	245.0	240.0		Very stiff gray clay w/silt & sandy silt lenses		P=1.30
70	248.0	248.5			Very stiff gray clay w/silt lenses & few silty sand pockets		P=1.35
71	248.5	250.0			Very stiff gray clay w/few silt pockets	6	22
72	254.5	255.0			Very stiff gray clay w/silt & sand lenses & shell fragments		P=1.30
73	258.0	258.5			Very stiff gray clay w/silt lenses		P=1.40
74	258.5	260.0			Very stiff gray clay w/shell fragments	8	21
75	264.5	265.0			Very stiff gray clay w/shell fragments & silt pockets		P 1.20 T 1.40
76	268.0	268.5			Ditto		P 1.30 T 1.00

\*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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Predominant type shown heavy. Modifying type shown light.



(Sheet #4)



# LOG OF BORING

Sheet 5 of 6

Name of Project: Louisiana Power & Light Company

Site "X", St. Charles Parish, Louisiana

For: Ebasco Services Incorporated, New York, New York

Boring No. 5 Date 8 September & 10 November 1970

Ground Elev. (Cont'd) 7.35 Datum MSL Gr. Water Depth

Sample No.	SAMPLE Depth — Feet		DEPTH STRATUM Feet		VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
	From	To	From	To			
77	268.5	270.0			Very stiff gray clay w/shell fragments	6	19
					& silt pockets		
78	274.5	275.0			Very stiff gray clay w/shell fragments,	P 1.40	T 1.10
					silt pockets & trace of organic		
					matter		
79	278.0	278.5			Very stiff gray clay w/shell fragments		
80	278.5	280.0		282.0	Very stiff gray clay	7	20
81	282.0	283.5	282.0		Very dense gray fine sand w/trace of	18	50=8"
					silt		
82	285.0	286.5			Ditto	15	50=6"
83	288.5	290.0			Ditto	9	50=8"
84	293.5	295.0			Very dense gray fine sand	12	50
85	298.5	300.0		303.0	Very dense gray fine sand w/few clay	14	50=6"
					pockets & shells		
86	303.5	305.0	303.0		Very stiff gray clay	3	12
87	308.5	310.0			Very stiff gray clay w/clayey silt	4	11
					pockets & lenses, shells & organic		
					matter		
88	314.5	315.0			Very stiff gray clay w/silt lenses &	P 1.20	T 1.25
					shells		
89	318.0	318.5			Very stiff gray clay w/silt lenses,	P 1.40	T 1.30
					shells & shell fragments		
90	318.5	320.0			Ditto	3	8
	323.5	324.0		324.0	Very stiff gray clay w/sand layers		
91	325.0	326.5	324.0		Very dense gray fine sand	15	50=8"
92	328.5	330.0			Ditto	25	50=5"

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.

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 6 of 6

Site "X", St. Charles Parish, Louisiana

For: Ebasco Services Incorporated, New York, New York

Boring No. 5  
(Cont'd)  
Ground Elev. \_\_\_\_\_

7.35

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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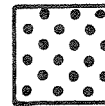
CLAY



**SILT**



**SAND**



Predominant type shown heavy. Modifying type shown light.

DEPTH IN FT.

(Sheet #6)



Sheet 1 of 3

Site "X", St. Charles Parish, Louisiana

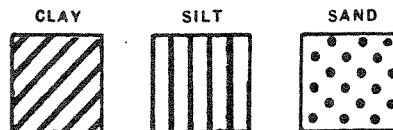
Boring No. 6 Date 9 September 1970

Ground Elev. 9.07 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	0.5	0.0	1.0	Stiff brown silty clay		
2	2.5	3.0	1.0	4.5	Very stiff brown silty clay		<i>P: 1.25</i>
3	5.5	6.0	4.5	7.0	Soft gray clay w/sandy silt pockets,		<i>P: 0.13</i> <i>T: 0.40</i>
					lenses & roots		
4	8.5	9.0	7.0	10.0	Medium stiff gray clay w/some silt		<i>P: 0.25</i> <i>T: 0.40</i>
					pockets & roots		
5	11.5	12.0	10.0	12.0	Soft gray & brown clay w/wood		<i>P: 0.13</i> <i>T: 0.20</i>
6	14.5	15.0	12.0	15.0	Stiff brown & gray clay w/few roots		<i>P: 0.65</i> <i>T: 0.60</i>
7	19.5	20.0	15.0	22.5	Stiff gray & brown clay w/some wood		<i>P: 0.50</i> <i>T: 0.45</i>
8	24.5	25.0	22.5	27.0	Medium stiff gray clay w/silt pockets		<i>P: 0.25</i> <i>T: 0.35</i>
9	29.5	30.0	27.0		Soft gray clay w/silt pockets, fine		<i>P: 0.125</i> <i>T: 0.35</i>
					sand lenses & organic matter		
10	34.5	35.0			Soft gray clay w/some shells, silt		<i>P: 0.13</i> <i>T: 0.30</i>
					pockets & fine sand lenses		
11	39.5	40.0		43.5	Soft gray clay w/silty fine sand		<i>P: 0.13</i> <i>T: 0.30</i>
					pockets & lenses		
12	44.5	45.0	43.5	49.0	Medium stiff gray clay w/silt & silty		<i>P: 0.25</i> <i>T: 0.20</i>
					fine sand pockets & lenses		
13	49.5	50.0	49.0	52.0	Stiff greenish-gray & brown clay with		<i>P: 0.87</i>
					some shells		
14	53.0	53.5	52.0		Very stiff brown & greenish-gray clay		<i>P: 1.25</i>
					w/concretions		
15	53.5	55.0		57.5	Ditto	4	15
16	58.0	58.5	57.5	58.5	Stiff reddish-brown & gray clay w/silty		<i>P: 0.5</i>
					fine sand layers		
17	58.5	60.0	58.5	60.0	Medium dense brown silty fine sand	5	16

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Predominant type shown heavy. Modifying type shown light.

(Sheet #1)



## LOG OF BORING

Sheet 2 of 3

Name of Project: Louisiana Power & Light Company

Site "X", St. Charles Parish, Louisiana

For: Ebasco Services Incorporated, New York, New York

Boring No. 6 (Cont'd) Date 9 September 1970Ground Elev. 9.07 Datum MSL Gr. Water Depth \_\_\_\_\_

Sample No.	SAMPLE Depth — Feet		DEPTH STRATUM Feet		VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
	From	To	From	To			
18	63.0	63.5	60.0		Stiff reddish-brown & gray clay w/silt	P = 0.75	
					pockets & lenses		
19	63.5	65.0		67.0	Stiff reddish-brown & gray clay w/some	3	11
					silt pockets & lenses		
20	68.0	68.5	67.0	68.5	Very stiff reddish-brown & gray clay	P = 1.38	
					w/concretions & a few silt pockets		
21	68.5	70.0	68.5	72.0	Stiff reddish-brown & gray clay w/silt	3	14
					lenses & pockets		
22	73.0	73.5	72.0		Very stiff reddish-brown & gray clay	P = 1.00	
					w/some shells		
23	73.5	75.0		75.0	Ditto	3	16
24	78.0	78.5	75.0	78.5	Stiff reddish-brown clay w/silt layers	P = 0.50 T = 0.45	
25	78.5	80.0	78.5	81.0	Dense reddish-brown sandy silt w/some	18	42
					clay		
26	84.5	85.0	81.0	87.5	Medium stiff reddish-brown & gray silty	P = 0.25 T = 0.15	
					clay w/silt layers		
27	88.0	88.5	87.5	88.5	Stiff reddish-brown & gray clay w/silt	P = 0.87 T = 0.70	
					pockets & lenses		
28	88.5	90.0	88.5	91.0	Dense reddish-brown clayey sand w/clay	8	41
					layers		
29	94.5	95.0	91.0		Stiff gray clay w/silt pockets & lenses	P = 0.87 T = 0.55	
30	98.0	98.5		98.5	Stiff gray clay w/fine sand layers &	P = 0.75 T = 0.50	
					pockets		
31	98.5	100.0	98.5	100.0	Stiff gray clay w/silt and silty fine	3	15
					sand pockets & layers		
(Continued)							

DEPTH IN FT.

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Predominant type shown heavy. Modifying type shown light.

(Sheet #2)







# LOG OF BORING

Sheet 1 of 6

Name of Project: Louisiana Power & Light Company

Site "X", St. Charles Parish, Louisiana

For: Ebasco Services Incorporated, New York, New York

Boring No. 7

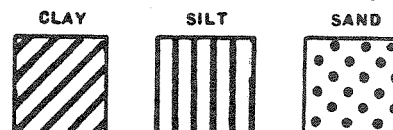
Date 9 September & 16 November 1970

Ground Elev. 11.63 Datum MSL Gr. Water Depth \_\_\_\_\_

Sample No.	SAMPLE Depth — Feet		DEPTH STRATUM Feet		VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
	From	To	From	To			
1	2.5	3.0	0.0	3.0	Medium stiff tan & gray silty clay with clay pockets & layers	P: 0.50 T: 0.50	
2	5.5	6.0	3.0	7.0	Soft tan & gray silty clay w/clay pockets & layers	P: 0.18 T: 0.20	
3	8.5	9.0	7.0		Medium stiff gray & tan clay w/silt pockets (Flocculated)	P: 0.40 T: 0.50	
4	11.5	12.0			Ditto	P: 0.50 T: 0.53	
5	14.5	15.0			Medium stiff gray & tan clay w/silt pockets & silty clay layers	P: 0.50 T: 0.53	
6	19.5	20.0		21.0	Medium stiff gray & tan clay (Flocculated)	P: 0.50 T: 0.55	
7	24.5	25.0	21.0	25.0	Medium stiff gray clay (Flocculated)	P: 0.30 T: 0.35	
8	29.5	30.0	25.0		Soft gray clay w/silt lenses & thin sand layers	P: 0.18 T: 0.20	
9	34.5	35.0		38.5	Soft gray clay w/sandy silt pockets	P: 0.20 T: 0.24	
10	39.5	40.0	38.5	40.0	Loose gray clayey fine sand w/clay pockets & shell fragments		
11	44.5	45.0	40.0		Soft gray clay w/sand lenses & pockets	P: 0.20 T: 0.30	
12	49.5	50.0		52.0	Soft gray clay	P: 0.23 T: 0.30	
13	53.0	53.5	52.0	54.0	Very stiff greenish-gray & tan silty clay w/clay pockets	P: 1.30 T: 1.0+	
14	53.5	55.0	54.0		Stiff tan & gray clay w/concretions	7 22	
15	58.0	58.5			Ditto	P: 0.90 T: 0.90+	
16	58.5	60.0		61.0	Stiff tan & gray clay w/silt lenses	3 10	
17	63.0	63.5	61.0		Very stiff tan & gray clay w/silt lenses	P: 1.30 T: 1.0+	

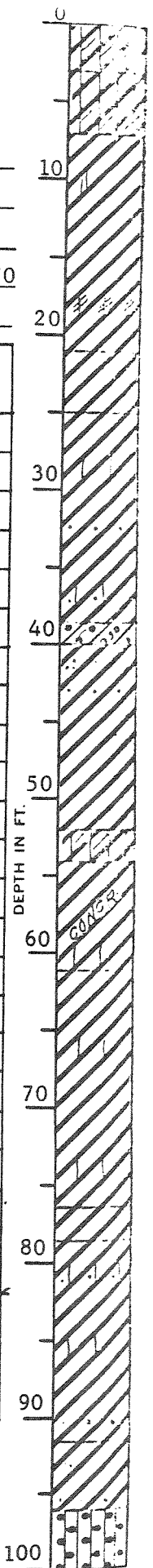
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Predominant type shown heavy. Modifying type shown light.

(Sheet #1)





## LOG OF BORING

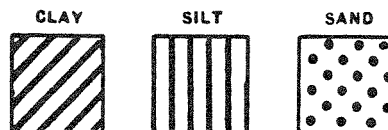
Sheet 2 of 6

Name of Project: Louisiana Power & Light CompanySite "X", St. Charles Parish, LouisianaFor: Ebasco Services Incorporated, New York, New YorkBoring No. 7Date 9 September & 16 November 1970Ground Elev. (Cont'd) 11.63Datum MSLGr. Water Depth 

Sample No.	SAMPLE Depth — Feet		DEPTH STRATUM Feet		VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
	From	To	From	To			
18	63.5	65.0			Very stiff tan & gray clay w/silt lenses	6	13
19	68.0	68.5			Ditto		P = 1.20 T = 1.0+
20	68.5	70.0			Ditto	6	14
21	74.5	75.0		76.5	Ditto		P = 1.20 T = 1.0+
22	78.0	78.5	76.5	78.5	Stiff gray & tan clay		P = 0.70 T = 0.75
23	78.5	80.0	78.5		Very stiff tan & gray clay w/sandy silt layers	5	21
24	84.5	85.0			Very stiff tan & gray clay w/silt lenses		P = 1.20 T = 1.0+
25	88.0	88.5			Very stiff tan & gray clay w/silt lenses & thin sand layers		P = 1.30 T = 1.0+
26	88.5	90.0		91.5	Ditto	3	11
27	94.5	95.0	91.5	96.0	Stiff gray clay w/sand pockets & lenses		P = 0.80 T = 0.60
28	96.0	97.5	96.0		Very dense gray silty sand	10	50
29	98.5	100.0			Ditto	11	50=11"
30	103.5	105.0			Ditto	24	50=6"
31	108.5	110.0		111.0	Ditto	50=6" (Seat)	
32	114.5	115.0	111.0		Stiff gray clay w/silt lenses		P 0.65 T 0.78
33	118.0	118.5			Stiff gray clay		P 0.82 T 0.70
34	118.5	120.0			Stiff gray clay w/silt lenses	7	16
35	124.5	125.0		127.5	Stiff gray clay w/organic matter, wood & peat layer		P 0.90 T 0.48
36	128.0	128.5	127.5	129.0	Very stiff gray organic clay w/wood & peat layer		P 1.20 T 1.00
37	128.5	130.0	129.0	130.5	Stiff gray silty clay w/organic matter	5	16

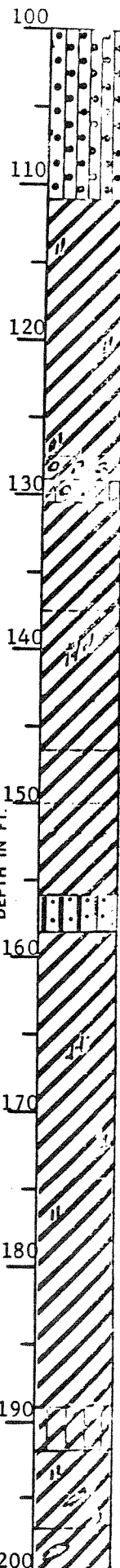
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Predominant type shown heavy. Modifying type shown light.

(Sheet #2)





## LOG OF BORING

Sheet 3 of 6

Name of Project: Louisiana Power &amp; Light Company

Site "X", St. Charles Parish, Louisiana

For: Ebasco Services Incorporated, New York, New York

Boring No. 7  
(Cont'd)9 September &  
Date 16 November 1970

Ground Elev. 11.63

Datum MSL

Gr. Water Depth

Sample No.	SAMPLE Depth — Feet		DEPTH STRATUM Feet		VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
	From	To	From	To			
38	134.5	135.0	130.5	137.5	Stiff gray clay	P 0.75 T 0.75	
39	138.0	138.5	137.5		Very stiff gray clay w/concretions	P 1.45 T 1.80	
40	138.5	140.0			Very stiff gray clay w/concretions & silty sand layer	11	36
41	144.5	145.0		146.5	Very stiff gray clay w/concretions	P 1.90 T 1.60	
42	148.0	148.5	146.5		Very stiff tan & gray clay	P 2.00 T 2.00	
43	148.5	150.0		150.0	Ditto	9	27
44	154.5	155.0	150.0	156.0	Very stiff tan & gray fissured clay	P 1.65 T 2.00	
45	156.5	157.0	156.0	158.5	Compact gray sandy silt w/clay pockets	P 1.65 T 1.50	
46	158.5	160.0	158.5		Very stiff tan & gray clay	7	24
47	164.5	165.0			Ditto	P 1.30 T 1.60	
48	168.0	168.5			Ditto	P 1.80 T 2.40	
49	168.5	170.0			Very stiff tan & gray clay w/sandy silt layers	14	50=9"
50	174.5	175.0			Very stiff tan & gray clay w/silt lenses	P 2.10 T 1.60	
51	178.0	178.5			Ditto	P 1.90 T 1.60	
52	178.5	180.0			Ditto	9	34
53	184.5	185.0			Ditto	P 1.80 T 1.30	
54	188.0	188.5			Ditto	P 1.90 T 1.40	
55	188.5	190.0	189.0	192.0	Very stiff tan & gray silty clay	6	16
56	194.5	195.0	192.0	197.0	Stiff gray clay w/silt pockets & lenses & shell fragments	P 1.10 T 1.30	
57	198.0	198.5	197.0		Very stiff gray clay	P 1.80 T 1.80	
58	198.5	200.0		201.0	Very stiff gray clay w/few shell fragments	6	20

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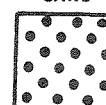
CLAY



SILT



SAND



Predominant type shown heavy. Modifying type shown light.

(Sheet #3)



## LOG OF BORING

Sheet 4 of 6

Name of Project: Louisiana Power & Light Company

Site "X", St. Charles Parish, Louisiana

For: Ebasco Services Incorporated, New York, New York

Boring No. 7  
(Cont'd)Date 9 September &  
16 November 1970Ground Elev. 11.63 Datum MSL Gr. Water Depth \_\_\_\_\_

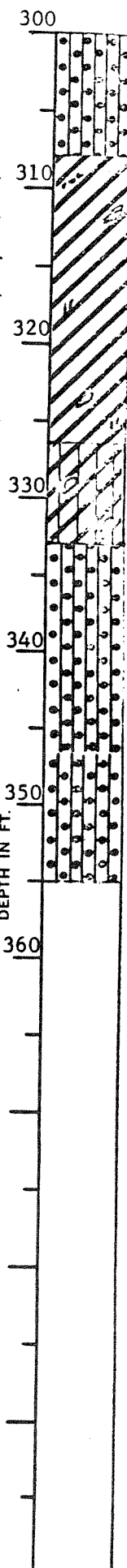
Sample No.	SAMPLE Depth — Feet		DEPTH STRATUM Feet		VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
	From	To	From	To			
59	204.5	205.0	201.0	207.0	Stiff gray clay w/silt pockets, sandy silt layers, shell layers & fragments	P 0.65 T 0.75	
60	208.0	208.5	207.0	209.0	Stiff light gray clay	P 0.80 T 1.20	
61	208.5	210.0	209.0	211.0	Very stiff gray clay	6 24	
62	214.5	215.0	211.0	217.0	Very stiff tan & gray clay w/many clayey silt pockets	P 1.40 T 1.40	
63	218.0	218.5	217.0		Very stiff tan & gray fissured clay	P 2.20 T 2.10	
64	218.5	220.0		223.0	Ditto	14 45	
65	224.5	225.0	223.0		Very stiff gray clay w/organic matter	P 1.25 T 1.40	
66	228.0	228.5			Ditto	P 1.40 T 1.90	
67	228.5	230.0			Very stiff gray clay w/clayey silt & silty sand layers	8 36	
68	234.5	235.0			Very stiff gray clay w/silt & sand lenses, clayey silt layers & shell fragments	P 1.60 T 1.10	
69	238.0	238.5		238.5	Ditto	P 1.65 T 1.80	
70	238.5	240.0	238.5		Very dense gray fine sand w/clay layers	30 50=6"	
71	243.5	245.0		248.5	Ditto	21 50=7"	
72	248.5	250.0	248.5	253.0	Very stiff gray clay w/silt lenses	5 13	
73	254.5	255.0	253.0		Very stiff gray clay w/silt & sand lenses & shell fragments	P 1.55 T 1.50	
74	258.0	258.5			Ditto	P 1.85 T 1.80	
75	258.5	260.0			Very stiff gray clay w/sand layers & shells	11 50=7"	
76	264.5	265.0			Very stiff gray clay w/sand lenses & shell fragments	P 1.50 T 1.80	

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Predominant type shown heavy. Modifying type shown light.



(Sheet #4)



## LOG OF BORING

Sheet 5 of 6

Name of Project: Louisiana Power & Light Company

Site "X", St. Charles Parish, Louisiana

For: Ebasco Services Incorporated, New York, New York

Boring No. 7  
(Cont'd)9 September &  
16 November 1970Ground Elev. 11.63 Datum MSL Gr. Water Depth \_\_\_\_\_

Sample No.	SAMPLE Depth — Feet		DEPTH STRATUM Feet		VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
	From	To	From	To			
77	268.0	268.5			Very stiff gray clay w/sand lenses, shell fragments & trace of organic matter	P 1.40 T 1.30	
78	268.5	270.0			Very stiff gray clay w/silt lenses, shell fragments & trace of organic matter	9 26	
79	274.5	275.0			Very stiff gray clay w/silt lenses & pockets & shell fragments	P 1.30 T 1.30	
80	278.0	278.5			Ditto	P 1.40 T 1.60	
81	278.5	280.0		284.5	Ditto	7 20	
82	284.5	285.0	284.5	287.0	Medium dense to dense gray silty sand w/shells & shell fragments	P 0.20 T —	
83	288.0	288.5	287.0	288.5	Very stiff gray clay w/silt & sand lenses & shell fragments		
84	288.5	290.0	288.5	291.0	Dense gray silty sand w/clay layers	10 31	
85	293.5	295.0	291.0		Very dense gray silty sand	50=4" (Seat)	
86	298.5	300.0			Very dense gray silty sand w/shell fragments	50=6" (Seat)	
87	303.5	305.0		308.0	Very dense gray silty sand	50=6" (Seat)	
88	308.5	310.0	308.0		Very stiff gray clay w/sand layers & shell fragments	30 50=6"	
89	314.5	315.0			Very stiff gray clay w/silt lenses, layers, pockets & shell fragments	P 1.15 T 1.40	
90	318.0	318.5			Ditto	P 1.40 T 1.60	
91	318.5	320.0			Ditto	12 29	
92	324.0	324.5		326.5	Ditto	P 1.40 T 1.30	

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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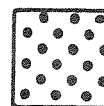
CLAY



SILT



SAND



Predominant type shown heavy. Modifying type shown light.

(Sheet #5)



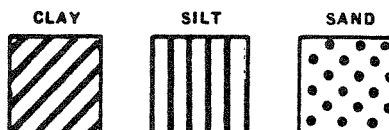
## Sheet 6 of 6

Site "X", St. Charles Parish, Louisiana

Boring No. 7 Date 9 September & 16 November 1970  
(Cont'd)  
Ground Elev. 11.63 Datum M.S.L. 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.



(Sheet #6)



## LOG OF BORING

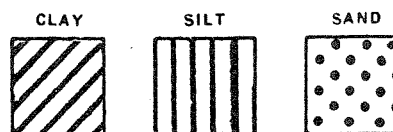
Sheet 1 of 3

Name of Project: Louisiana Power & Light CompanySite "X", St. Charles Parish, LouisianaFor: Ebasco Services Incorporated, New York, New YorkBoring No. 8 Date 9 September 1970Ground Elev. 262 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	0.5	0.0		Stiff brown clay w/silt pockets		
2	2.5	3.0		4.0	Ditto	P: 0.87 T: 0.70	
3	5.5	6.0	4.0	7.0	Soft brown silty clay	P: 0.13 T: 0.30	
4	8.5	9.0	7.0		Stiff gray clay	P: 0.50 T: 0.40	
5	11.5	12.0		13.5	Stiff gray clay w/large roots & organic matter	P: 0.50 T: 0.40	
6	14.5	15.0	13.5	16.0	Soft gray clay w/silty sand layers & pockets	P: 0.13 T: 0.35	
7	19.5	20.0	16.0	21.0	Stiff gray & brown clay w/trace of organic matter	P: 0.50 T: 0.60	
8	24.5	25.0	21.0	28.5	Soft gray clay w/silt pockets	P: 0.13 T: 0.45	
9	29.5	30.0	28.5		Medium stiff gray clay w/fine sand pockets & layers	P: 0.25 T: 0.50	
10	34.5	35.0			Medium stiff gray clay w/shell fragments	P: 0.25	
11	39.5	40.0			Medium stiff gray clay w/fine sand pockets, lenses & layers & few shells	P: 0.25 T: 0.45	
12	44.5	45.0			Medium stiff gray clay w/silt pockets & lenses	P: 0.38 T: 0.60	
13	49.5	50.0		52.0	Medium stiff gray clay w/sandy silt pockets & few shell fragments	P: 0.25 T: 0.50	
14	54.5	55.0	52.0		Very stiff reddish-brown & gray clay	P: 1.25	
15	58.0	58.5			Ditto	P: 1.25	
16	58.5	60.0			Very stiff reddish-brown & gray clay w/concretions	3	19
					(Continued)		

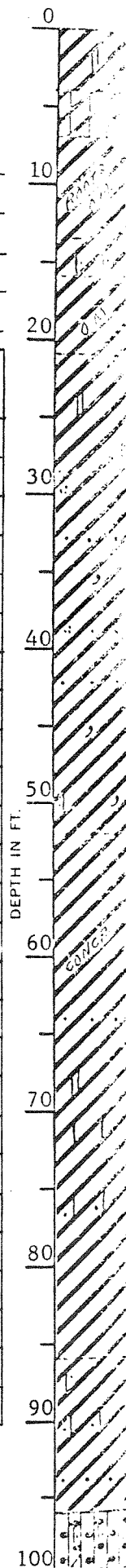
\*Number in first column indicates number of blows of 140-lb. hammer dropped 30 in. required to seat 2-in. O. D. splitspoon sampler 6 in. Number in second column indicates number of blows of 140-lb. hammer dropped 30 in. required to drive 2-in. O. D. splitspoon sampler 1 ft. after seating 6 in.

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Predominant type shown heavy. Modifying type shown light.

(Sheet #1)





## LOG OF BORING

Sheet 2 of 3

Name of Project: Louisiana Power & Light Company

Site "X", St. Charles Parish, Louisiana

For: Ebasco Services Incorporated, New York, New York

Boring No. 8 Date 9 September 1970  
(Cont'd)Ground Elev. 2.62 Datum MSL Gr. Water Depth \_\_\_\_\_

Sample No.	SAMPLE Depth — Feet		DEPTH STRATUM Feet		VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
	From	To	From	To			
17	63.0	63.5			Very stiff reddish-brown & gray clay	P: 1.0	T: 0.9
					w/concretions & fine sand layers & lenses		
18	63.5	65.0			Very stiff reddish-brown & gray clay	5	19
					silt pockets & lenses		
19	68.0	68.5			Very stiff reddish-brown & gray clay	P: 1.50	
20	68.5	70.0			Ditto	5	20
21	73.0	73.5			Very stiff reddish-brown & gray clay	P: 1.50	
					w/sandy silt lenses		
22	73.5	75.0			Very stiff reddish-brown & gray clay	5	19
23	78.0	78.5			Ditto	P: 1.25	
24	78.5	80.0			Ditto	4	21
25	84.5	85.0		86.0	Very stiff reddish-brown & gray clay	P: 1.37	
					w/silty fine sand pockets		
26	88.0	88.5	86.0		Stiff reddish-brown & gray clay w/fine	P: 0.50	T: 0.40
					sand pockets & clayey sand layers		
27	88.5	90.0			Stiff reddish-brown & gray clay w/fine	8	28
					sandy silt lenses		
28	92.5	93.0			Stiff reddish-brown & gray clay w/fine		
					sand layers		
29	95.5	96.0		96.0	Stiff reddish-brown & gray clay		
30	96.0	97.5	96.0		Dense brown silty fine sand w/sandy	9	31
					silt layers & some clay		
31	98.5	100.0		100.0	Dense brown silty fine sand	10	42
					(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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Predominant type shown heavy. Modifying type shown light.

(Sheet #2)



Sheet 3 of 3

Site "X", St. Charles Parish, Louisiana.

For: Ebasco Services Incorporated, New York, New York

Boring No. 8 Date 9 September 1970

Ground Elev. (Cont'd) 12.62 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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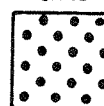
CLAY



**SILT**



**SAND**



Predominant type shown heavy. Modifying type shown light.

(Sheet #3)



## LOG OF BORING

Sheet 1 of 2

Name of Project: Louisiana Power & Light Company

Site "X", St. Charles Parish, Louisiana

For: Ebasco Services Incorporated, New York, New York

Boring No. 9 Date 8 September 1970Ground Elev. 8.56 Datum MSL Gr. Water Depth \_\_\_\_\_

Sample No.	SAMPLE Depth — Feet		DEPTH STRATUM Feet		VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
	From	To	From	To			
1	2.5	3.0	0.0	3.0	Stiff tan & gray silty clay w/clay layers	P: 0.70 T: 0.70	
2	5.5	6.0	3.0	7.0	Soft tan & gray silty clay w/clay layers	P: 0.15 T: 0.15	
3	8.5	9.0	7.0	10.0	Medium stiff gray clay w/roots (Flocculated)	P: 0.50 T: 0.30	
4	11.5	12.0	10.0		Medium stiff gray & tan clay (Flocculated)	P: 0.50 T: 0.43	
5	14.5	15.0			Ditto	P: 0.60 T: 0.55	
6	19.5	20.0		20.0	Medium stiff gray & tan clay w/sand layers	P: 0.40 T: 0.41	
7	22.5	23.0	20.0	23.0	Loose gray & tan silty sand w/trace of clay		
8	23.0	24.5	23.0	26.5	Medium dense gray silty sand	9	23
9	28.5	30.0	26.5		Soft gray clay w/sand lenses	1	4
10	34.5	35.0		38.0	Soft gray clay w/sand lenses & layers	P: 0.20 T: 0.20	
11	39.5	40.0	38.0		Medium stiff gray clay w/sand lenses	P: 0.27 T: 0.26	
12	44.5	45.0		48.0	Ditto	P: 0.28 T: 0.30	
13	49.5	50.0	48.0	51.0	Stiff greenish-gray & tan clay w/silt pockets & silty clay layers	P: 0.90 T: 0.90	
14	53.0	53.5	51.0		Very stiff greenish-gray & tan clay	P: 1.60 T: 1.04	
15	53.5	55.0		56.5	Very stiff greenish-gray & tan clay w/concretions	7	16
16	58.0	58.5	56.5	58.5	Medium compact tan & brown clayey silt w/clay lenses, pockets & sandy silt layers		

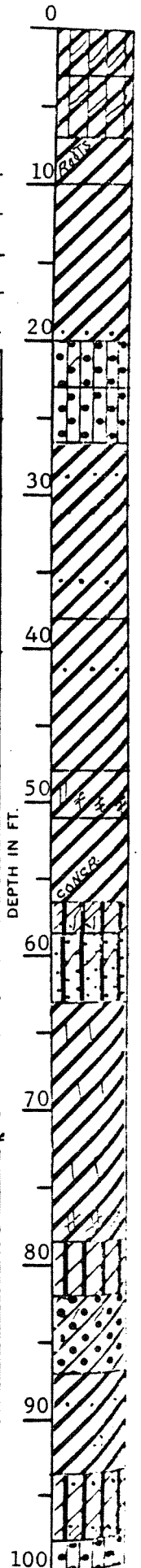
Number in first column indicates number of blows of 140-lb. hammer dropped 30 in. required to seat 2-in. O. D. splitspoon sampler 6 in. Number in second column indicates number of blows of 140-lb. hammer dropped 30 in. required to drive 2-in. O. D. splitspoon sampler 1 ft. after seating 6 in.

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Predominant type shown heavy. Modifying type shown light.

(Sheet #1)





# LOG OF BORING

Sheet 2 of 2

Name of Project: Louisiana Power & Light Company

Site 'X', St. Charles Parish, Louisiana

For: Ebasco Services Incorporated, New York, New York

Boring No. 9 Date 8 September 1970

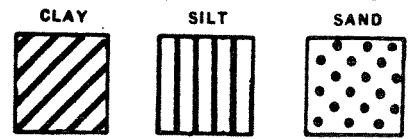
Ground Elev. (Cont'd) 8.56 Datum MSL Gr. Water Depth

Sample No.	SAMPLE Depth — Feet		DEPTH STRATUM Feet		VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
	From	To	From	To			
17	60.5	62.0	58.5	63.0	Medium compact tan sandy silt w/clay	5	21
					lenses & layers		
18	63.5	65.0	63.0		Stiff tan & gray clay w/silt lenses	5	17
19	68.0	68.5			Ditto		P: 1.15 T: 1.04
20	68.5	70.0			Stiff tan & gray clay	5	14
21	74.5	75.0			Ditto		P: 1.00 T: 1.00
22	78.0	78.5		78.5	Stiff tan & gray clay w/clayey silt		P: 1.00 T: 1.00
					layers		
23	78.5	80.0	78.5	82.0	Medium compact tan & gray clayey silt	8	23
24	84.5	85.0	82.0	87.0	Loose tan clayey sand w/clay pockets		
25	88.0	88.5	87.0		Stiff tan & gray clay w/sand lenses &		P: 0.70 T: 0.50
					pockets		
26	88.5	90.0		93.5	Stiff tan & gray clay w/sand layers	5	23
27	94.5	95.0	93.5	98.0	Medium compact tan clayey silt w/sand &		
					sandy clay layers		
28	98.5	100.0	98.0	100.0	Dense tan silty sand w/trace of clay	13	38
					Note: P = Penetrometer reading - shear		
					strength in tons per sq. ft.		
					T = Torvane reading - shear		
					strength in tons per sq. ft.		

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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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

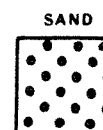
Boring No. 10Date 14 September 1970Ground Elev. 13.35Datum MSL

Gr. Water Depth \_\_\_\_\_

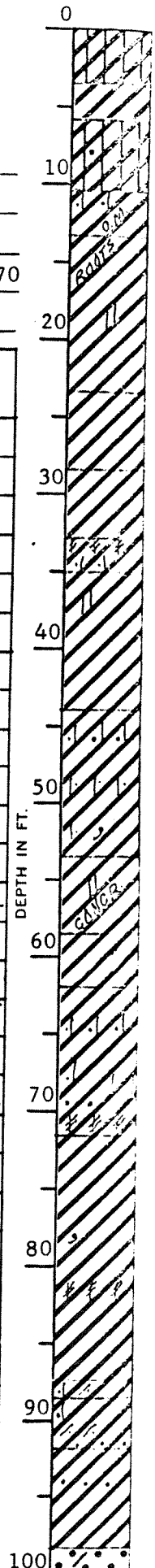
Sample No.	SAMPLE Depth — Feet		DEPTH STRATUM Feet		VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
	From	To	From	To			
1	0.0	0.5	0.0		Medium stiff brown silty clay		
2	2.5	3.0		3.5	Ditto		
3	5.5	6.0	3.5	6.0	Medium stiff brown & gray clay	P: 0.25 T: 0.45	
4	8.5	9.0	6.0	10.5	Medium stiff brown & gray silty clay	P: 0.25 T: 0.50	
					w/trace of sand		
5	11.5	12.0	10.5	13.5	Soft gray clay w/sandy silt pockets & lenses & some organic matter	P: 0.25 T: 0.40	
6	14.5	15.0	13.5		Medium stiff gray clay w/large roots	P: 0.25 T: 0.55	
7	19.5	20.0		23.5	Medium stiff gray clay w/some silt	P: 0.38 T: 0.60	
					pockets		
8	24.5	25.0	23.5	28.5	Medium stiff gray & brown clay	P: 0.25 T: 0.70	
9	29.5	30.0	28.5	33.0	Stiff gray & brown clay	P: 0.50 T: 0.90	
10	34.5	35.0	33.0	35.0	Medium stiff gray clay w/silty clay & sandy silt layers & pockets	P: 0.25 T: 0.65	
11	39.5	40.0	35.0	44.0	Soft gray clay w/some silt pockets	P: 0.13 T: 0.45	
12	44.5	45.0	44.0		Medium stiff gray clay w/sandy silt	P: 0.25 T: 0.70	
					pockets & silty sand layers		
13	49.5	50.0			Medium stiff gray clay w/sandy silt	P: 0.25 T: 0.60	
					pockets & lenses & few shells		
14	53.0	53.5		53.5	Medium stiff gray clay w/sandy silt	P: 0.25 T: 0.60	
					pockets & lenses		
15	54.5	55.0	53.5		Stiff greenish-gray & brown clay with trace of silt	P: 1.0	
16	58.0	58.5		58.5	Stiff greenish-gray & brown clay with concretions & trace of silt	P: 1.0	
17	58.5	60.0	58.5	62.0	Very stiff tan & gray clay	6	18

\*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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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

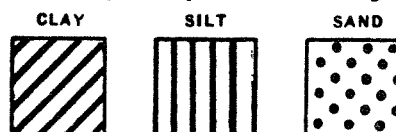
Boring No. 10  
(Cont'd)Date 14 September 1970Ground Elev. 13.35 Datum MSL Gr. Water Depth \_\_\_\_\_

Sample No.	SAMPLE Depth — Feet		DEPTH STRATUM Feet		VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
	From	To	From	To			
18	64.5	65.0	62.0		Stiff tan & gray clay w/sandy silt	P = 0.50 T = 0.90	
					pockets & layers & some sand		
19	68.0	68.5			Stiff tan & gray clay w/silt lenses &	P = 1.00	
					silty clay layers		
20	68.5	70.0		71.5	Ditto	5	18
21	73.0	73.5	71.5		Very stiff tan & gray clay	P = 1.75	
22	73.5	75.0			Ditto	9	25
23	78.0	78.5			Very stiff tan & gray clay w/some shell	P = 1.25	
					fragments		
24	78.5	80.0			Very stiff tan & gray clay w/silty clay	4	18
					layers		
25	84.5	85.0		87.5	Ditto	P = 1.38	
26	88.0	88.5	87.5	88.5	Stiff tan & gray clay w/sandy silt	P = 0.88	
					lenses & clayey sand layers		
27	88.5	90.0	88.5	92.0	Very stiff tan & gray clay w/sandy silt	6	16
					pockets & sandy clay & sand layers		
28	94.5	95.0	92.0		Stiff tan & gray clay w/fine sand		
					layers		
29	98.0	98.5		98.5	Ditto	P = 0.75	
30	98.5	100.0	98.5	100.0	Dense tan fine sand w/trace of clay	7	31
					Note: P = Penetrometer reading - shear		
					strength in tons per sq. ft.		
					T = Torvane reading - shear		
					strength in tons per sq. ft.		

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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Predominant type shown heavy. Modifying type shown light.



## LOG OF BORING

Name of Project: Louisiana Power & Light Company

Site "X", St. Charles Parish, Louisiana

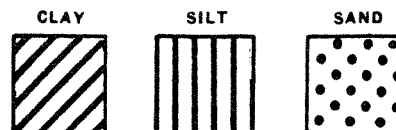
For: Ebasco Services Incorporated, New York, New York

Boring No. 11 Date 14 September 1970Ground Elev. 14.15 Datum MSL Gr. Water Depth \_\_\_\_\_

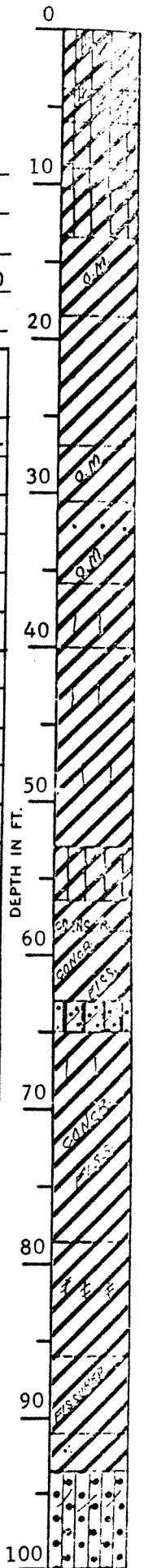
Sample No.	SAMPLE Depth — Feet		DEPTH STRATUM Feet		VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
	From	To	From	To			
1	2.5	3.0	0.0	4.0	Medium stiff to stiff tan & gray silty clay w/clayey silt layers	P: 0.60 T: 0.45	
2	5.5	6.0	4.0	6.0	Medium stiff tan & gray silty clay with clayey silt layers	P: 0.45 T: 0.35	
3	8.5	9.0	6.0	9.0	Soft to medium stiff tan & gray silty clay	P: 0.25 T: 0.25	
4	11.5	12.0	9.0	13.5	Soft gray silty clay	P: 0.22 T: 0.21	
5	14.5	15.0	13.5	18.5	Soft to medium stiff gray clay with organic matter	P: 0.30 T: 0.28	
6	19.5	20.0	18.5		Medium stiff gray & tan clay	P: 0.38 T: 0.40	
7	24.5	25.0		27.0	Ditto	P: 0.40 T: 0.45	
8	29.5	30.0	27.0	30.5	Soft to medium stiff gray & tan clay w/organic matter	P: 0.28 T: 0.27	
9	34.5	35.0	30.5	36.0	Soft gray clay w/sand layers & organic matter	P: 0.15 T: 0.17	
10	39.5	40.0	36.0	40.0	Soft to medium stiff gray clay w/silt lenses	P: 0.25 T: 0.30	
11	44.5	45.0	40.0		Soft gray clay w/silt lenses	P: 0.23 T: 0.25	
12	49.5	50.0		53.0	Ditto	P: 0.20 T: 0.23	
13	54.5	55.0	53.0	56.5	Stiff greenish-gray & tan silty clay	P: 0.55 T: 0.45	
14	57.5	58.0	56.5	58.5	Very stiff tan & gray clay with concretions	P: 1.35 T: 1.30	
15	58.5	60.0	58.5		Very stiff tan & gray clay with concretions & fissures	5 16	
16	62.5	63.0		63.0	Ditto	P: 1.25 T: 1.20	
17	63.5	65.0	63.0	65.0	Compact tan sandy silt w/clay layers	4 20	

\*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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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

Boring No. 11 Date 14 September 1970  
(Cont'd)Ground Elev. 141.5 Datum M.S.L. Gr. Water Depth \_\_\_\_\_

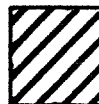
Sample No.	SAMPLE Depth — Feet		DEPTH STRATUM Feet		VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
	From	To	From	To			
18	67.5	68.0	65.0		Very stiff tan & gray clay w/silt	P = 1.30 T = 1.20	
					lenses, concretions & fissures		
19	68.5	70.0			Ditto	6	17
20	72.5	73.0			Ditto	P = 1.65 T = 1.40	
21	73.5	75.0			Ditto	6	17
22	77.5	78.0		78.5	Ditto	P = 1.50 T = 1.50	
23	78.5	80.0	78.5		Very stiff tan & gray clay w/silty clay	3	9
					layers		
24	84.5	85.0		86.0	Ditto	P = 1.50 T = 1.40	
25	87.5	88.0	86.0		Very stiff tan & gray fissured clay		
26	88.5	90.0		91.0	Ditto	5	16
27	93.0	93.5	91.0	93.5	Very stiff tan & gray clay w/sand	P = 1.75 T = 1.60	
					pockets		
28	93.5	95.0	93.5		Dense tan & gray silty sand w/clay	7	35
					layers		
29	98.5	100.0		100.0	Ditto	12	48
					Note: P = Penetrometer reading - shear		
					strength in tons per sq. ft.		
					T = Torvane reading - shear		
					strength in tons per sq. ft.		

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.

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.

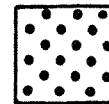
CLAY



SILT



SAND



Predominant type shown heavy. Modifying type shown light.

(Sheet #2)



## LOG OF BORING

Name of Project: Louisiana Power & Light Company

Site "X", St. Charles Parish, Louisiana

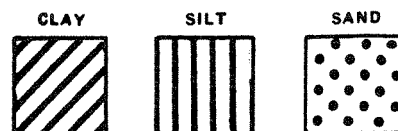
For: Ebasco Services Incorporated, New York, New York

Boring No. 12 Date 11 September 1970Ground Elev. 13.97 Datum MSL Gr. Water Depth \_\_\_\_\_

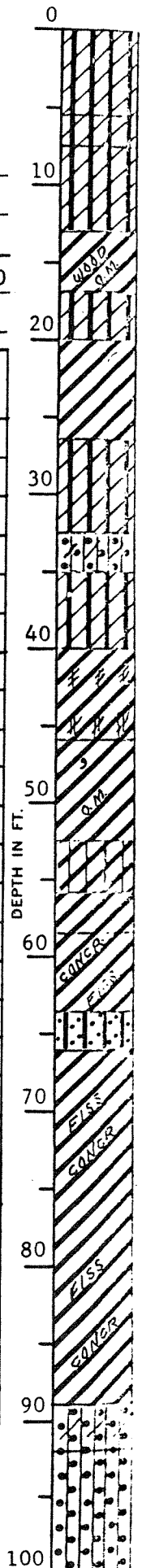
Sample No.	SAMPLE Depth — Feet		DEPTH STRATUM Feet		VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
	From	To	From	To			
1	2.5	3.0	0.0	5.5	Compact tan & gray clayey silt	P: 0.37 T: 0.35	
2	5.5	6.0	5.5	7.5	Loose gray clayey silt	P: 0.13 T: 0.15	
3	8.5	9.0	7.5		Medium compact gray clayey silt	P: 0.25 T: 0.15	
4	11.5	12.0		13.0	Ditto	P: 0.30 T: 0.15	
5	14.5	15.0	13.0	17.0	Medium stiff gray clay w/trace of wood	P: 0.33 T: 0.30	
					& organic matter		
6	19.5	20.0	17.0	20.0	Loose gray clayey silt	P: 0.13 T: 0.10	
7	24.5	25.0	20.0	26.5	Medium stiff gray & tan clay	P: 0.35 T: 0.32	
8	29.5	30.0	26.5	32.5	Loose gray clayey silt	P: 0.12 T: 0.10	
9	34.5	35.0	32.5	35.0	Loose gray silty sand w/clay layers		
10	39.5	40.0	35.0	40.0	Loose to medium compact gray clayey silt	P: 0.25 T: 0.20	
11	44.5	45.0	40.0	46.0	Soft gray clay w/silty clay & clayey silt layers	P: 0.22 T: 0.20	
12	49.5	50.0	46.0	52.5	Soft to medium stiff gray clay w/trace of shell fragments & organic matter	P: 0.25 T: 0.27	
13	54.5	55.0	52.5	56.0	Stiff greenish-gray & tan silty clay	P: 0.62 T: 0.48	
14	57.5	58.0	56.0	58.5	Very stiff greenish-gray & tan clay	P: 1.50 T: 1.10	
15	58.5	60.0	58.5		Very stiff tan & gray clay with concretions & fissures	6 18	
16	63.0	63.5		63.5	Ditto	P: 1.12 T: 1.10	
17	63.5	65.0	63.5	66.0	Compact tan sandy silt	3 22	
18	67.5	68.0	66.0		Stiff to very stiff tan & gray clay w/fissures & concretions	P: 1.25 T: 1.15	
19	68.5	70.0			Ditto	6 26	
20	72.5	73.0			Ditto	P: 1.30 T: 1.40	

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)



# 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. 12 Date 11 September 1970

Ground Elev. 13.97 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.

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.

## CLAY



**SILT**



**SAND**



Predominant type shown heavy. Modifying type shown light.



## LOG OF BORING

Name of Project: Louisiana Power & Light Company

Site "X", St. Charles Parish, Louisiana

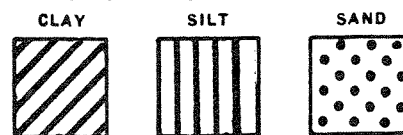
For: Ebasco Services Incorporated, New York, New York

Boring No. 16 Date 14-15 September 1970Ground Elev. 12.45 Datum MSL Gr. Water Depth \_\_\_\_\_

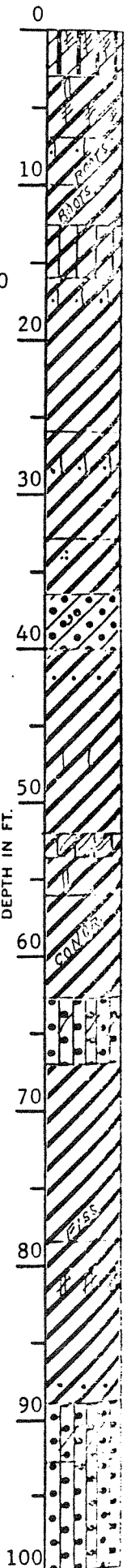
Sample No.	SAMPLE Depth — Feet		DEPTH STRATUM Feet		VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
	From	To	From	To			
1	2.5	3.0	0.0	3.0	Loose to medium compact tan & gray clayey silt w/silty clay layers		
2	5.5	6.0	3.0	7.0	Medium stiff tan & gray clay w/silt pockets & silty clay layers	P: 0.50 T: 0.48	
3	8.5	9.0	7.0	10.0	Soft gray clay w/sandy silt pockets, layers & roots	P: 0.18 T: 0.25	
4	11.5	12.0	10.0	12.5	Medium stiff gray clay w/roots (Flocculated)	P: 0.50 T: 0.60	
5	14.5	15.0	12.5	16.0	Soft gray silty clay	P: 0.30 T: 0.21	
6	19.5	20.0	16.0		Medium stiff gray & tan clay (Flocculated)	P: 0.38 T: 0.45	
7	24.5	25.0		26.0	Ditto	P: 0.50 T: 0.46	
8	29.5	30.0	26.0	33.0	Soft gray clay w/sandy silt lenses & layers	P: 0.25 T: 0.30	
9	34.5	35.0	33.0	36.5	Medium stiff gray clay w/sand pockets	P: 0.30 T: 0.40	
10	39.5	40.0	36.5	40.0	Loose gray clayey sand w/few shell fragments		
11	44.5	45.0	40.0		Medium stiff gray clay w/sand lenses	P: 0.30 T: 0.35	
12	49.5	50.0		52.0	Medium stiff gray clay w/silt lenses	P: 0.30 T: 0.43	
13	53.0	53.5	52.0	53.5	Stiff greenish-gray & tan silty clay w/clay layers & pockets	P: 0.90 T: 0.9+	
14	53.5	55.0	53.5	56.0	Very stiff greenish-gray & tan clay w/silt pockets	6	15
15	58.0	58.5	56.0		Very stiff tan & gray clay with concretions	P: 1.30 T: 0.9+	
16	58.5	60.0		62.5	Ditto	5	16

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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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

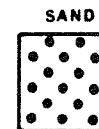
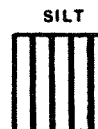
Boring No. 16  
(Cont'd)Date 14-15 September 1970Ground Elev. 12.45Datum MSL

Gr. Water Depth \_\_\_\_\_

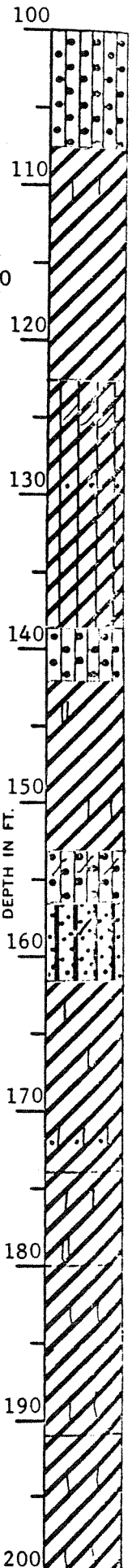
Sample No.	SAMPLE Depth — Feet		DEPTH STRATUM Feet		VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
	From	To	From	To			
17	63.0	63.5	62.5		Medium dense tan silty sand w/clay layers		
18	63.5	65.0		67.0	Ditto	9	19
19	68.5	70.0	67.0		Very stiff tan & gray clay	6	18
20	74.5	75.0			Ditto	P: 1.25 T: 0.94	
21	78.0	78.5		78.5	Very stiff tan & gray clay w/fissures	P: 1.10 T: 0.94	
22	78.5	80.0	78.5		Stiff gray & tan clay w/clayey silt layers	5	14
23	84.5	85.0			Stiff gray & tan clay	P: 0.85 T: 0.94	
24	88.0	88.5		89.0	Stiff gray & tan clay w/sand pockets & layers	P: 1.00 T: 0.94	
25	88.5	90.0	89.0	93.0	Dense tan silty sand w/clay layers	12	38
26	93.5	95.0	93.0		Very dense tan silty sand	22	50=8"
27	98.5	100.0			Ditto	15	50=8"
28	103.5	105.0		107.5	Ditto	40	50=5"
29	108.5	110.0	107.5		Stiff gray clay w/silt lenses	4	11
30	114.5	115.0			Ditto	P: 0.58 T: 0.80	
31	118.0	118.5			Ditto	P: 0.55 T: 0.70	
32	118.5	120.0		122.5	Ditto	3	12
33	124.5	125.0	122.5		Medium stiff gray silty clay w/clay & sand layers & pockets	P: 0.30 T: 0.30	
34	128.0	128.5			Ditto	P: 0.30 T: 0.43	
35	128.5	130.0			Ditto	2	12
36	134.5	135.0			Ditto	P: 0.30 T: 0.18	
37	138.0	138.5		138.5	Ditto	P: 0.38 T: 0.25	
38	138.5	140.0	138.5	142.0	Dense gray silty sand	16	32

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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Dominant tone shown heavy. Modifying tone 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. 16 Date 14-15 September 1970  
 (Cont'd)  
 Ground Elev. 12.45 Datum MSL Gr. Water Depth         

Sample No.	SAMPLE Depth — Feet		DEPTH STRATUM Feet		VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
	From	To	From	To			
39	143.5	145.0	142.0		Very stiff greenish-gray clay w/silt pockets	8	26
40	149.5	150.0			Very stiff greenish-gray & tan clay w/silt lenses	$P = 1.75$ $T = 0.9+$	
41	152.5	153.0		153.0	Ditto	$P = 1.86$ $T = 0.9+$	
42	153.5	155.0	153.0	156.5	Very dense gray silty sand w/clay layers	16	50=7"
43	158.5	160.0	156.5	161.5	Compact gray sandy silt w/trace of clay	14	45
44	164.5	165.0	161.5		Very stiff greenish-gray clay w/trace of silt	$P = 1.60$ $T = 0.9+$	
45	168.0	168.5			Very stiff greenish-gray & tan clay w/trace of silt	$P = 1.90$ $T = 1.0+$	
46	168.5	170.0		174.0	Very stiff greenish-gray & tan clay w/sandy silt lenses & layers	14	38
47	174.5	175.0	174.0		Very stiff tan & gray clay w/silt lenses	$P = 1.55$ $T = 1.0+$	
48	178.0	178.5			Very stiff tan & gray clay w/silt lenses & pockets	$P = 1.75$ $T = 1.0+$	
49	178.5	180.0		180.0	Ditto	10	32
50	184.5	185.0	180.0		Very stiff greenish-gray & tan clay w/silt lenses	$P = 1.50$ $T = 0.9+$	
51	188.0	188.5			Ditto	$P = 1.15$ $T = 0.9+$	
52	188.5	190.0		191.0	Ditto	7	28
53	194.5	195.0	191.0		Stiff to very stiff gray clay w/silt lenses	$P = 1.00$ $T = 0.9+$	
54	198.0	198.5			Ditto	$P = 1.20$ $T = 0.9+$	

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.

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Predominant type shown heavy. Modifying type shown light.



Ground Elev. 12.45 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.

(Sheet #4)



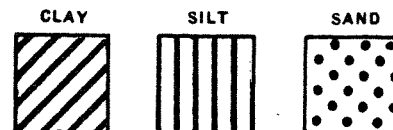
## LOG OF BORING

Name of Project: Louisiana Power & Light Company  
Site "X", St. Charles Parish, Louisiana  
 For: Ebasco Services Incorporated, New York, New York  
 Boring No. 17 Date 10-11 15-16 September 1970  
 Ground Elev. 12.65 Datum MSL Gr. Water Depth \_\_\_\_\_

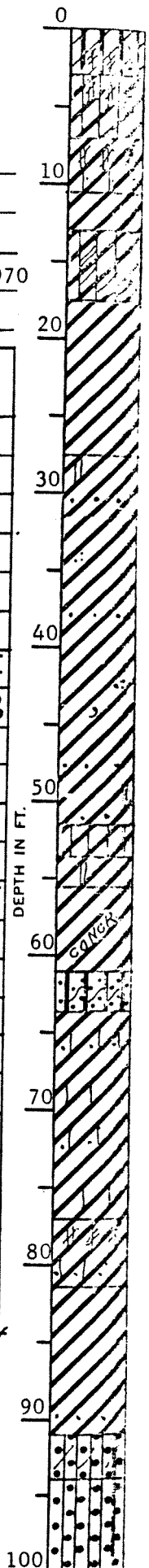
Sample No.	SAMPLE Depth — Feet		DEPTH STRATUM Feet		VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
	From	To	From	To			
1	2.5	3.0	0.0	3.0	Loose tan & gray clayey silt w/silty clay layers		
2	5.5	6.0	3.0	7.0	Soft tan & gray silty clay w/clayey silt layers	P: 0.18 T: 0.19	
3	8.5	9.0	7.0	10.5	Soft gray clay w/silty clay & silty sand layers	P: 0.15 T: 0.25	
4	11.5	12.0	10.5	13.0	Medium stiff gray clay (Flocculated)	P: 0.35 T: 0.45	
5	14.5	15.0	13.0	17.5	Medium stiff gray silty clay w/clay pockets & layers	P: 0.50 T: 0.59	
6	19.5	20.0	17.5		Medium stiff gray & tan clay (Flocculated)	P: 0.50 T: 0.36	
7	24.5	25.0		27.5	Ditto	P: 0.50 T: 0.70	
8	29.5	30.0	27.5		Soft to medium stiff gray clay w/silt pockets & sand layers	P: 0.25 T: 0.35	
9	34.5	35.0			Soft to medium stiff gray clay w/trace of sand & sand layers	P: 0.25 T: 0.36	
10	39.5	40.0			Soft to medium stiff gray clay w/sand pockets, shell fragments & sand layers	P: 0.25 T: 0.35	
11	44.5	45.0			Soft to medium stiff gray clay w/sand lenses	P: 0.28 T: 0.36	
12	49.5	50.0		51.5	Soft to medium stiff gray clay w/silt pockets	P: 0.30 T: 0.31	
13	53.0	53.5	51.5	53.5	Stiff greenish-gray & tan silty clay	P: 0.80 T: 0.90	
14	53.5	55.0	53.5	55.5	Very stiff greenish-gray & tan clay w/trace of silt	6	16

\*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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Predominant type shown heavy. Modifying type shown light.





## LOG OF BORING

Name of Project: Louisiana Power & Light Company

Site "X", St. Charles Parish, Louisiana

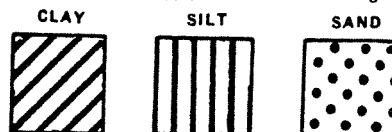
For: Ebasco Services Incorporated, New York, New York

Boring No. 17 Date 10-11  
(Cont'd) 15-16 September 1970Ground Elev. 12.65 Datum MSL Gr. Water Depth \_\_\_\_\_

Sample No.	SAMPLE Depth — Feet		DEPTH STRATUM Feet		VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
	From	To	From	To			
15	58.0	58.5	55.5		Very stiff tan & gray clay w/few concretions	P: 1.20 T: 0.9 f	
16	58.5	60.0		61.0	Ditto	5	14
17	63.0	63.5	61.0	63.5	Medium compact tan sandy silt w/thin clay layers		
18	63.5	65.0	63.5		Very stiff tan & gray clay w/sandy silt layers	6	16
19	68.0	68.5			Very stiff tan & gray clay w/silt lenses & sandy silt layers	P: 1.25 T: 1.0 f	
20	68.5	70.0			Very stiff tan & gray clay w/silt lenses	5	12
21	74.5	75.0		77.0	Ditto	P: 1.25 T: 1.0 f	
22	78.0	78.5	77.0		Stiff tan & gray clay w/sandy silt & silty clay layers	P: 0.85 T: 0.90	
23	78.5	80.0		81.5	Ditto	4	10
24	84.5	85.0	81.5		Very stiff tan & gray clay	P: 1.20 T: 1.0 f	
25	88.0	88.5			Ditto	P: 1.30 T: 1.0 f	
26	88.5	90.0		91.0	Stiff gray & tan clay w/sand layers	8	19
27	93.5	94.0	91.0	94.0	Medium dense tan silty sand w/clay layers		
28	94.5	96.0	94.0		Very dense tan silty sand	19	50=7"
29	98.5	100.0			Ditto	11	50=11"
30	103.5	105.0		107.0	Ditto	15	50=9"
31	108.5	110.0	107.0		Stiff gray clay	3	10
32	114.5	115.0			Ditto	P: 0.50 T: 0.55	
33	117.5	118.0			Ditto	P: 0.60 T: 0.62	

\*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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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

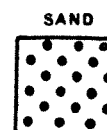
Boring No. 17 <sup>10-11</sup> Date 15-16 September 1970Ground Elev. 12.65 Datum MSL Gr. Water Depth \_\_\_\_\_

Sample No.	SAMPLE Depth — Feet		DEPTH STRATUM Feet		VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
	From	To	From	To			
34	118.5	120.0		121.0	Stiff gray clay	4	10
35	123.5	124.0	121.0	124.0	Stiff gray clay w/shell fragments & organic matter		P = 0.63 T = 0.62
36	127.5	128.0	124.0	128.5	Stiff gray clay w/organic matter		P = 0.88 T = 1.10
37	128.5	130.0	128.5	131.0	Dense gray silty sand w/shell fragments	15	45
38	134.5	135.0	131.0		Medium stiff to stiff gray silty clay w/silty sand layers		P = 0.50 T = 0.30
39	138.0	138.5		138.5	Ditto		P = 0.63 T = 0.35
40	138.5	140.0	138.5	140.0	Dense gray silty sand w/clay layers	20	46
41	144.5	145.0	140.0		Stiff to very stiff greenish-gray & tan clay w/silt pockets		P = 1.00 T = 1.10
42	147.5	148.0			Ditto		P = 1.40 T = 1.30
43	148.5	150.0		155.0	Stiff to very stiff greenish-gray & tan clay w/shell pockets	13	29
44	156.5	157.0	155.0	158.0	Medium dense gray silty sand w/clay layers		
45	158.5	160.0	158.0	164.0	Very compact gray sandy silt w/clay layers	11	45
46	164.5	165.0	164.0		Very stiff greenish-gray & tan clay w/silt pockets		P = 1.25 T = 1.20
47	168.0	168.5			Ditto		P = 1.65 T = 1.40
48	168.5	170.0		173.0	Ditto	14	38
49	174.5	175.0	173.0		Very stiff tan & gray clay w/silt pockets & shell fragments		P = 1.60 T = 1.30
50	178.0	178.5			Ditto		P = 1.75 T = 1.50
51	178.5	180.0		181.0	Ditto	10	31

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.

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 #3)



# 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. 17  
(Cont'd)

Date <sup>10-11</sup>  
15-16 September 1970

Ground Elev. 12.65 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.

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.

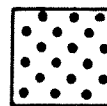
**CLAY**



**SILT**



**SAND**



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

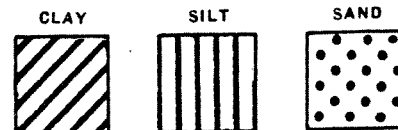
For: Ebasco Services Incorporated, New York, New York

Boring No. 18Date 9 & 10 September 1970Ground Elev. 13.92 Datum MSL Gr. Water Depth \_\_\_\_\_

Sample No.	SAMPLE Depth — Feet		DEPTH STRATUM Feet		VISUAL CLASSIFICATION	*STANDARD PENETRATION TEST	
	From	To	From	To			
1	2.5	3.0	0.0	3.0	Very stiff tan & gray silty clay	P: 1.75 T: 1.50	
2	5.5	6.0	3.0	7.0	Stiff tan & gray clay w/silt layers	P: 1.00 T: 0.95	
3	8.5	9.0	7.0	9.0	Medium stiff gray & tan silty clay	P: 0.30 T: 0.40	
4	11.5	12.0	9.0	13.0	Soft gray silty clay	P: 0.13 T: 0.20	
5	14.5	15.0	13.0	18.0	Soft to medium stiff gray clay with organic matter	P: 0.23 T: 0.30	
6	19.5	20.0	18.0		Stiff gray & tan clay	P: 0.55 T: 0.60	
7	24.5	25.0		26.0	Ditto	P: 0.45 T: 0.50	
8	29.5	30.0	26.0	30.0	Medium stiff gray & tan silty clay	P: 0.30 T: 0.30	
9	34.5	35.0	30.0	36.0	Compact gray sandy silt w/clay layers		
10	39.5	40.0	36.0		Soft gray clay w/silt lenses	P: 0.23 T: 0.25	
11	44.5	45.0			Ditto	P: 0.20 T: 0.25	
12	49.5	50.0		53.0	Ditto	P: 0.20 T: 0.25	
13	54.5	55.0	53.0	56.5	Stiff greenish-gray & tan silty clay	P: 0.63 T: 0.70	
14	57.5	58.0	56.5	58.0	Very stiff greenish-gray & tan clay w/silt pockets & concretions	P: 1.90 T: 1.50	
15	58.5	60.0	58.0		Stiff to very stiff tan & gray clay w/silt layers & fissures	4 17	
16	62.5	63.0		63.5	Ditto	P: 1.13 T: 1.10	
17	63.5	65.0	63.5	65.0	Stiff tan & gray silty clay	5 17	
18	67.5	68.0	65.0	68.0	Stiff tan & gray clay w/silt lenses	P: 1.00 T: 1.00	
19	68.5	70.0	68.0		Stiff tan & gray clay w/fissures & silt lenses	5 13	
20	72.5	73.0		73.0	Ditto	P: 0.95 T: 0.90	
21	73.5	75.0	73.0		Stiff to very stiff tan & gray clay w/fissures & silt lenses	5 24	

\*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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Predominant type shown heavy. Modifying type shown light.

(Sheet #1)