North Jetty

HOLE NO. 6ST-2

DEPARTMENT OF THE ARMY
DIVISION Southwestern
INSTALLATION Galv Dist, Eng Div

DRILLING LOG

1. PROJECT	Port Aransas Corpus Christi
SHEET OF	
2. LOCATION (Coordinates or Station)	Sta. 57+00 Tide +1.9 @ 6:30 AM
3. DRILLING AGENCY	U. S. Army Corps of Engineers
4. HOLE NO. (As shown on drawing title and file No.)	6ST-2
5. NAME OF DRILLER	Smith
6. DIRECTION OF HOLE	☐ VERTICAL ☐ INCLINED DEGREES WITH VERTICAL
7. THICKNESS OF OVER-BURDEN	
8. DEPTH DRILLED INTO ROCK	
9. TOTAL DEPTH OF HOLE	72.0
10. SIZE AND TYPE OF BIT	Shelby Tube - 6"
11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	
12. MANUFACTURER'S DESIGNATION OF DRILL	
13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN	DISTURBED 8 Jars; UNDISTURBED 4 Cont
14. TOTAL NO. CORE BOXES	
15. ELEV. GROUND WATER	
16. DATE HOLE	STARTED 2 July; COMPLETED 2 July 1962
17. ELEV. TOP OF HOLE	
18. TOTAL CORE RECOVERY FOR BORING (%)	
19. SIGNATURE OF INSPECTOR	

ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
0.0	22.5		Water			
22.5	24.5		22.5-23.0 No count 23.0-23.5 4 blows 23.5-24.0 9 blows Gray sand silt, trace of shell fragments			Jar 1
24.5	28.0		Same as above, sand w/shell fragments			
28.0	30.0		28.0-28.5 No count 28.5-29.0 refusal 29.0-29.5 refusal Gray sand med fine w/shell fragments			Jar 2
30.0	33.0		Same as above			Washed
33.0	35.0		33.0-33.5 No count 33.5-34.0 11 blows 34.0-34.5 9 blows Gray sand med silty			Jar 3
35.0	39.0		Same as above			Washed
39.0	40.0		Same same as below			
40.0	42.0		Gray and rust clay v/stiff sand, w/some shell fragments			Cont. 1 2.0 Q-Tube
42.0	44.0		Gray and tan clay v/stiff sand w/sand pockets sand at 44.0			Cont. 2 3.0
44.0	46.0		Gray sand v/soft trace binder some sandstone nod small			Cont. 3
46.0	49.0		Same as below			Washed
49.0	51.0		Gray sand med fine 49.0-49.5 No count 49.5-50.0 38 blows 50.0-50.5 42 blows			Jar 4
51.0	54.0		Same as above, gray sand med, fine			Washed
54.0	56.0		54.0-54.5 No count 54.5-55.0 refusal 55.0-55.5 refusal Gray and rust sand med fine			Jar 5
56.0	59.0		Same as above			Washed
59.0	61.0		59.0-59.5 No count 59.5-60.0 39 blows 60.0-60.5 62 blows Brown sand w/shell frag			

HOLE NO. 6ST-2

DEPARTMENT OF THE ARMY

DIVISION

INSTALLATION

DRILLING LOG

1. PROJECT: Pt. Aransas CC

SHEET OF

2. LOCATION (Coordinates or Station)

3. DRILLING AGENCY

4. HOLE NO. (As shown on drawing title and file No.)

5. NAME OF DRILLER

6. DIRECTION OF HOLE: ☐ VERTICAL ☐ INCLINED DEGREES WITH VERTICAL

7. THICKNESS OF OVER-BURDEN

8. DEPTH DRILLED INTO ROCK

9. TOTAL DEPTH OF HOLE

10. SIZE AND TYPE OF BIT

11. DATUM FOR ELEVATION SHOWN (TBM or MSL)

12. MANUFACTURER'S DESIGNATION OF DRILL

13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED

14. TOTAL NO. CORE BOXES

15. ELEV. GROUND WATER

16. DATE HOLE: STARTED / COMPLETED

17. ELEV. TOP OF HOLE

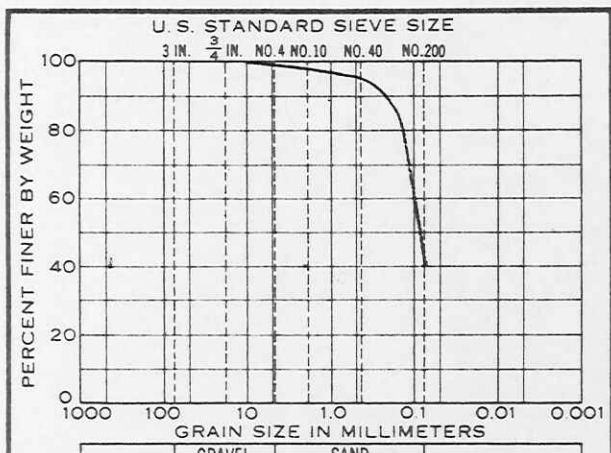
18. TOTAL CORE RECOVERY FOR BORING (%)

19. SIGNATURE OF INSPECTOR

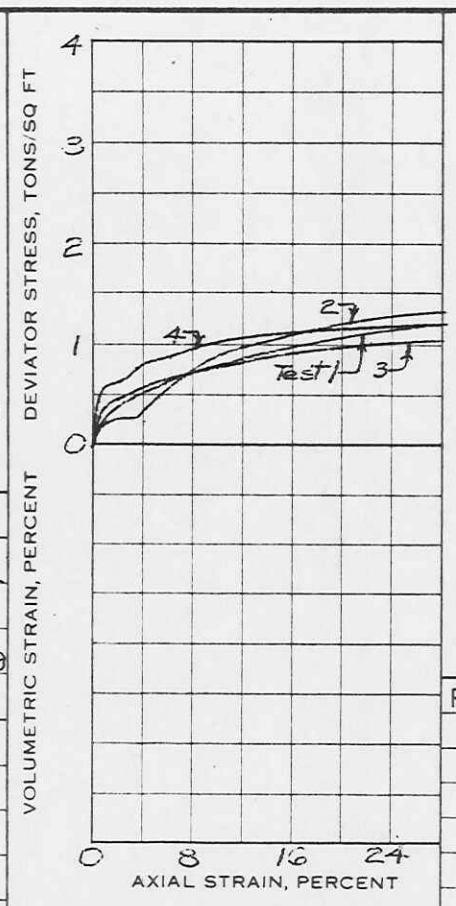
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
61.0	64.0		Same as above, w/tr clay			Washed
64.0	66.0		64.5-65.0 8 blows Gray sand clayey w/shell small 65.0-65.5 11 blows Brown sand clay			Jar 7
66.0	69.0		Same as above			Washed
69.0	71.0		69.5-70.0 17 blows Brown silt sandy trace of clay 70.0-70.5 28 blows Brown silt w/clay tr sand			Jar 8
71.0	72.0		Brown clay v/stiff sandy w/silt pockets			Cont. 4 2.5
			Bottomed at 72.0 in above Water 22.5 Weight of hammer 140# Drop Distance - 30"			

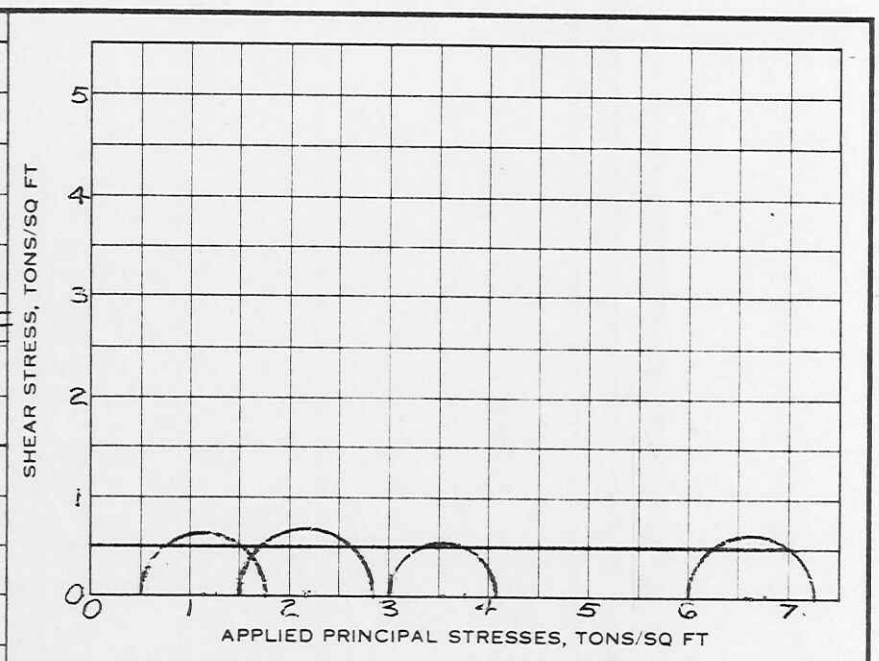
ENG FORM 1 MAR 61 1836 (EM 1110-1-1801) TRANSLUCENT PREVIOUS EDITION MAY BE USED UNTIL EXHAUSTED.

PROJECT Pt. Aransas CC HOLE NO. 6ST-2



COBBLES	GRAVEL C	GRAVEL F	SAND C	SAND M	SAND F	SILT OR CLAY





	Test No.	1	2	3	4
INITIAL	Water Content, W_0 %	21.2	21.1	22.1	22.2
	Dry Density Lbs/Cu Ft	106	107	106	105
	Void Ratio, e_0	.585	.568	.580	.599
	Saturation, S_0 %	97	100	100	99
BEFORE TEST	W.C. after Saturation, W_S %				
	Saturation, S %				
	Consol Pressure T/Sq Ft				
	W.C. after Consol, W_C %				
	Void Ratio after Consol e_C				
AT FAILURE	Maj Prin Stress, σ_I T/Sq Ft	1.74	2.85	4.06	7.23
	Min Prin Stress, σ_{III} T/Sq Ft	0.5	1.5	3.0	6.0
	Water Content, W_F %				
	Void Ratio, e_F				
Specimen Diameter Inches		1.4	1.3	1.4	1.4
Initial Height Inc		3.0	2.9	2.9	3.0
Test Time to Failure Min		30	29	30	30

Remarks:

Q test

Type of Test - Q
Constant Strain, 0.03 in/min
Control
UnConsolidated, UnDrained

Type of Specimen **Undisturbed**

ϕ = 0.0 °	Tan ϕ = .000	c - 0.5 T/Sq Ft

Classification Clayey SAND (SC)

LL 30	G 2.68
PL 12	D_{10}

Project Port Aransas - Corpus Christi
Foundation Material

Area **GALVESTON DISTRICT**

Boring No. 6ST-2	Sample No. S-13,599
~~Elev or~~ Depth 40.0 - 42.0	Date SEP 62

TRIAXIAL COMPRESSION TEST REPORT

SWDGL Report No. 8007

Plate No 5

ENG FORM 1 DEC 54 2089

(EM 1110-2-1803) (Translucent)