

North Jetty

HOLE NO. 6ST-4

DEPARTMENT OF THE ARMY DIVISION <u>Southwestern</u> INSTALLATION <u>Galv Dist, Eng Div</u>			1. PROJECT Port Aransas Corpus Christi		SHEET OF		
DRILLING LOG			2. LOCATION (Coordinates or Station) Tide 1.2 @ 6:15 AM Sta. 74/50				
4. HOLE NO. (As shown on drawing title and file No.) 6ST-4			3. DRILLING AGENCY U. S. Army Corps of Engineers				
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED DEGREES WITH VERTICAL			7. THICKNESS OF OVERBURDEN		8. DEPTH DRILLED INTO ROCK		
10. SIZE AND TYPE OF BIT Shelby Tube - 6"			11. DATUM FOR ELEVATION SHOWN (TBM or MSL)		9. TOTAL DEPTH OF HOLE 66.0		
13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN DISTURBED 7 Jars		14. TOTAL NO. CORE BOXES UNDISTURBED 3 Cont		15. ELEV. GROUND WATER		16. DATE HOLE STARTED 5 July COMPLETED 10 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	23.0		Water				
23.0	25.0		Gray sand w/shell frag			Cont. 1 Q-Triat	
25.0	28.0		Same as below			Washed	
28.0	30.0		28.0-28.5 No count 28.5-29.0 13 blows 29.0-29.5 20 blows Gray sand w/shell fragments			SP	
30.0	33.0		Sand			Jar 1 No recovery	
33.0	35.0		33.5-34.0 8 blows 34.0-34.5 6 blows Gray sand, silty, loose packed			SM No recovery	
35.0	37.0		35.5-36.0 4 blows 36.0-36.5 3 blows From gray sand to gray sandy clay at 36.5			SC Jar 2	
37.0	40.0		Gray sand, clayey w/cal nod			Cont. 2 2.00 Consol	
40.0	42.0		Same as above, hard to v/stiff			Cont. 3 Top 4.00 Bottom 2.50	
42.0	44.0		Continued from above				
44.0	47.0		Same as below, gray sand			No sample	
47.0	49.0		47.5-48.0 9 blows Gray and rust sand, clayey 48.0-48.5 15 blows Grey sand w/tr sandstone nod			Jar 3	
49.0	50.0		Same as above			Washed	
50.0	52.0		Same as below			Washed	
52.0	54.0		52.5-53.0 35 blows 53.0-53.5 44 blows Gray sand medium			Jar 4	
54.0	57.0		Same as above			Washed SP	
57.0	59.0		57.5-58.0 22 blows 58.0-58.5 27 blows Gray and rust sand med fine			Jar 5	
59.0	60.0		Same as above			Washed	
60.0	62.0		Same as above			Washed	
62.0	64.0		62.5-63.0 38 blows 63.0-63.5 48 blows Gray sand silty w/trace of shell fragments, small			SM Jar 6	

DEPARTMENT OF THE ARMY
DIVISION
INSTALLATION

DRILLING LOG
4. HOLE NO. (As shown on drawing title and file no.)

1. PROJECT
Pt. Aransas Corpus Christi

2. LOCATION (Coordinates or Station)

3. DRILLING AGENCY

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

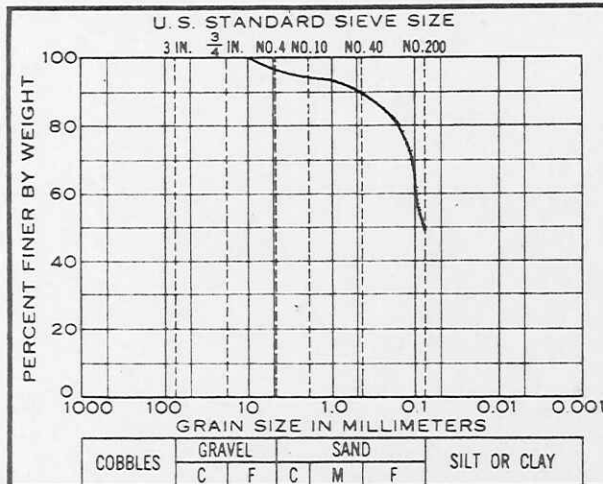
16. DATE HOLE
STARTED COMPLETED

17. ELEV. TOP OF HOLE

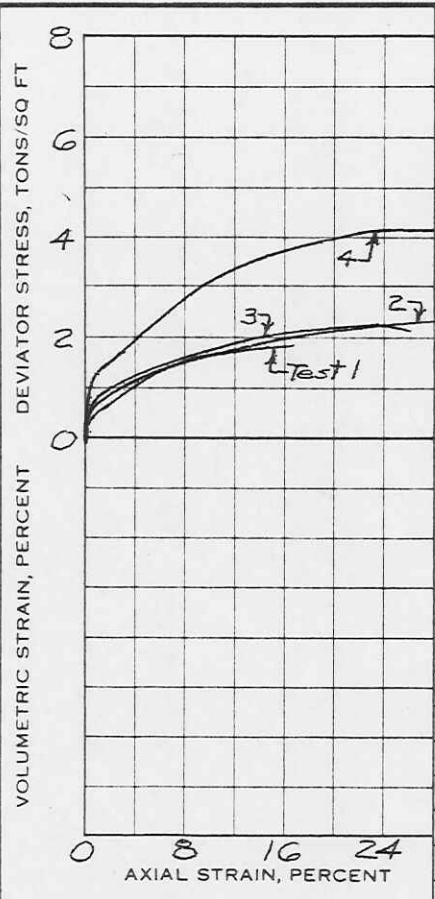
18. TOTAL CORE RECOVERY FOR BORING (%)

19. SIGNATURE OF INSPECTOR

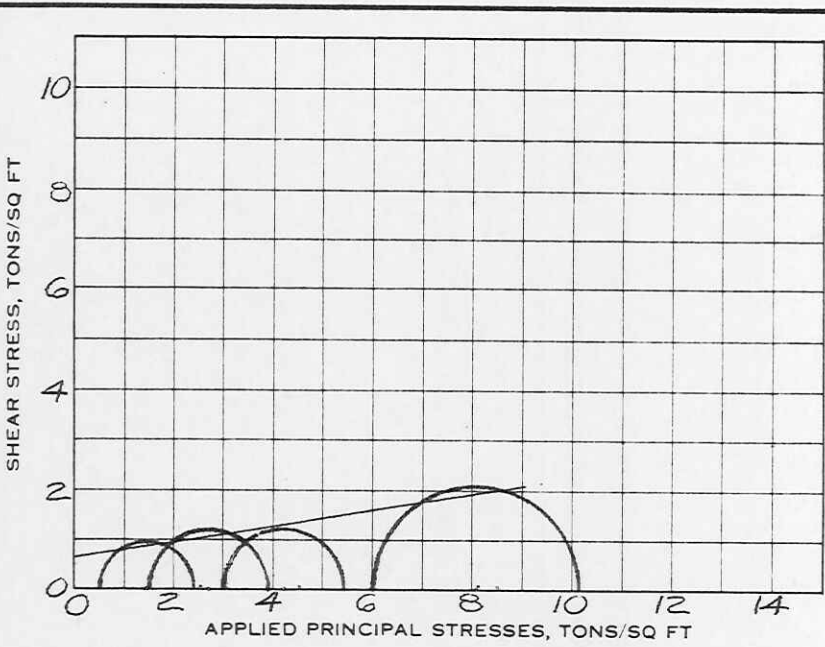
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
64.0	66.0		64.5-65.0 23 blows 65.0-65.5 23 blows Gray sand trace of binder shell, fragments Bottomed in above at 66.0 Water 23.0 Weight of hammer 140# Drop Distance - 30"			Jar 7



Test No.		1	2	3	4
INITIAL	Water Content, W_0 %	20.2	19.7	21.5	20.3
	Dry Density Lbs/Cu Ft	108	108	106	107
	Void Ratio, e_0	.565	.566	.532	.571
	Saturation, S_0 %	97	94	98	96
BEFORE TEST	W.C. after Saturation, W_s %				
	Saturation, S %				
	Consol Pressure T/Sq Ft				
	W.C. after Consol, W_c %				
AT FAILURE	Void Ratio after Consol e_c				
	Maj Prin Stress, σ_1 T/Sq Ft	2.37	3.90	5.30	10.16
	Min Prin Stress, σ_3 T/Sq Ft	0.5	1.5	3.0	6.0
	Water Content, W_f %				
	Void Ratio, e_f				
	Specimen Diameter Inches	1.4	1.4	1.4	1.4
	Initial Height Inr	3.0	3.0	3.0	3.0
	Test Time to Failure Min	17	28	24	26



Type of Test - Q	
Constant Strain, 0.03 in/min	
Control	
UnConsolidated, UnDrained	
Type of Specimen Undisturbed	
$\phi = 9.2^\circ$	$\tan \phi = .162$
Classification Clayey SAND (SC)	
LL 24	G 2.70
PL 16	D_{10}



Remarks:

Q test.

Project Port Aransas - Corpus Christi	
Foundation Material	
Area GALVESTON DISTRICT	
Boring No. GST-3	Sample No. S-13,600
Elev or Depth 40.0-42.0	Date SEP 62
TRIAXIAL COMPRESSION TEST REPORT	

Plate No. 6

ENG FORM 1 DEC 51 2089

(EM 1110-2-1803)

(Translucent)

SWDGL Report No. 8007