

DEPARTMENT OF THE ARMY

DIVISIONSouthwestern

INSTALLATIONGalv Dist, Eng Div

DRILLING LOG

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

6ST-12

6. DIRECTION OF HOLE

☐ VERTICAL

☐ INCLINED

DEGREES WITH VERTICAL

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

14. TOTAL NO. CORE BOXES

15. ELEV. GROUND WATER

16. DATE HOLE

17. ELEV. TOP OF HOLE

18. TOTAL CORE RECOVERY FOR BORING (%)

19. SIGNATURE OF INSPECTOR

1. PROJECT

Port Aransas Corpus Christi

2. LOCATION (Coordinates or Station)

Sta. 45/00 Tide 1.6 @ 6:30 AM

3. DRILLING AGENCY

U. S. Army Corps of Engineers

5. NAME OF DRILLER

Smith

7. THICKNESS OF OVER-BURDEN

8. DEPTH DRILLED INTO ROCK

9. TOTAL DEPTH OF HOLE

67.0

STARTED

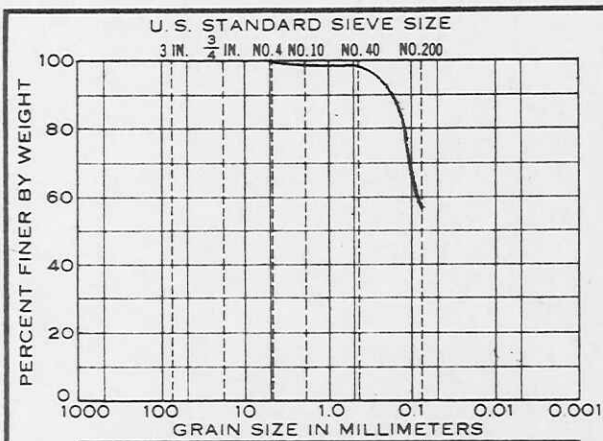
29 June

COMPLETED

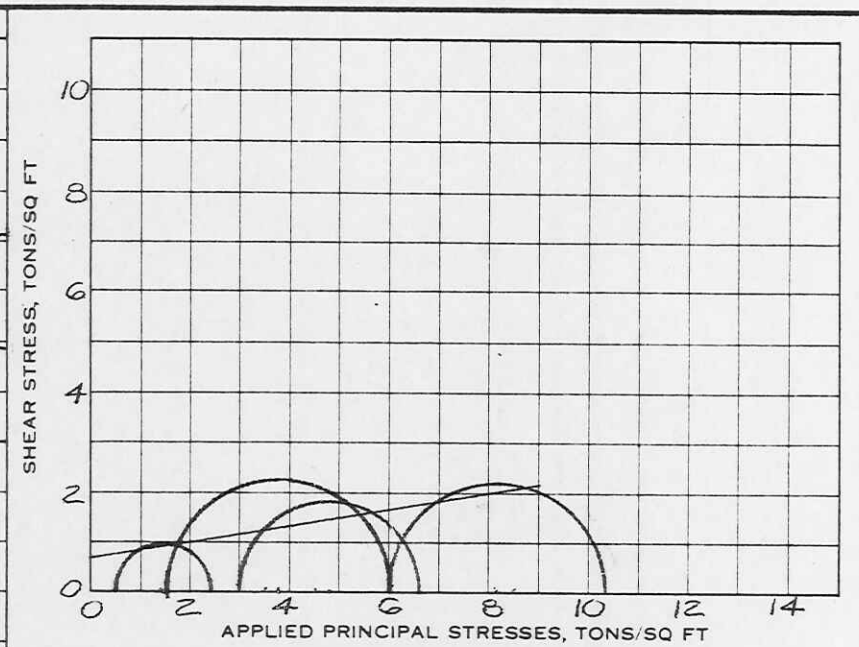
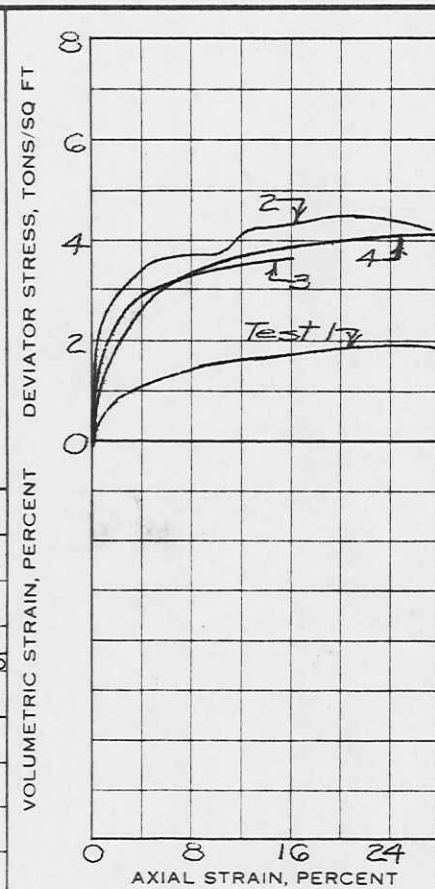
29 June 1962

REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)

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	36.0		Water			
36.0	38.0		36.0-36.5 No count 36.5-37.0 1 blows 37.0-37.5 1 blow Dark gray sand, silt, w/org material			Jar 1
38.0	40.0		Same as above			Washed
40.0	41.0		Same as above			
41.0	43.0		41.0-41.5 No count 41.5-42.0 11 blows 42.0-42.5 16 blows Gray and rust clay, sand w/cal nod			Jar 2
43.0	45.0		Gray clay v/stiff sandy w/lime stone, nod sand at 45.0			Cont. 1 Top 2.5 Bottom 3.25
45.0	48.0		Same as below			Washed
48.0	50.0		48.0-48.5 No count 48.5-49.0 12 blows 49.0-49.5 18 blows Gray and rust sand w/trace of limestone nodules			Jar 3
50.0	53.0		Same as above			Washed
53.0	55.0		53.0-53.5 No count 53.5-54.0 refusal 54.0-54.5 refusal Gray sand dense			Jar 4
55.0	58.0		Sand w/limestone nodules same as below			Washed
58.0	60.0		58.0-58.5 No count 58.5-59.0 16 blows 59.0-59.5 59 blows 58.0-59.0 Gray sand w/limestone nodules 59.0-60.0 Rust sand dense			Jar 5
60.0	65.0		Same as above, gray sand w/tr limestone, nodules, small			No sample
65.0	67.0		65.0-65.5 No count 65.5-66.0 29 blows Dark-gray sand w/shell, small tr sandstone nodules 66.0-66.5 40 blows Gray sand trace of clay			Jar 6
			Bottomed in above Weight of hammer 140# Drop Distance - 30"			



		COBBLES		GRAVEL		SAND		SILT OR CLAY	
		C	F	C	M	F			
Test No.				1	2	3	4		
INITIAL	Water Content, W_0	%	19.1	19.5	21.6	21.9			
	Dry Density	Lbs/Cu Ft	110	110	105	107			
	Void Ratio, e_0		.535	.536	.593	.575			
	Saturation, S_0	%	97	98	97	100			
BEFORE TEST	W.C.after Saturation, W_s	%							
	Saturation, S	%							
	Consol Pressure	T/Sq Ft							
	W.C. after Consol, W_c	%							
	Voic Ratio after Consol e_c								
AT FAILURE	Max Prin Stress, σ_1	T/Sq Ft	24.3	6.00	6.62	12.30			
	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	26	21	16	32		



Remarks:

Q test

Type of Test - Q	Constant Strain, 0.03 in/in
Control	UnConsolidated, UnDrained
Type of Specimen	Undisturbed
$\phi = 9.4^\circ$	$\tan \phi = .165$
$c = 0.7$ T/Sq Ft	
Classification	Sandy CLAY (CL)
LL 35	G 2.70
PL 12	D_{10}

Project	Port Aransas - Corpus Christi		
	Foundation Material		
Area	GALVESTON DISTRICT		
Boring No.	GST-12	Sample No.	S-13,606
Elev or Depth	430-45.0	Date	SEP 6 2
TRIAXIAL COMPRESSION TEST REPORT			