HOLE NO. 6ST-1

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) Tide 1.0 @ 10:00 AM Sta 47+00 North Jetty	
	3. DRILLING AGENCY U. S. Army Corps of Engineers	
4. HOLE NO. (As shown on drawing title and file No.) 6ST-1	5. NAME OF DRILLER Smith	

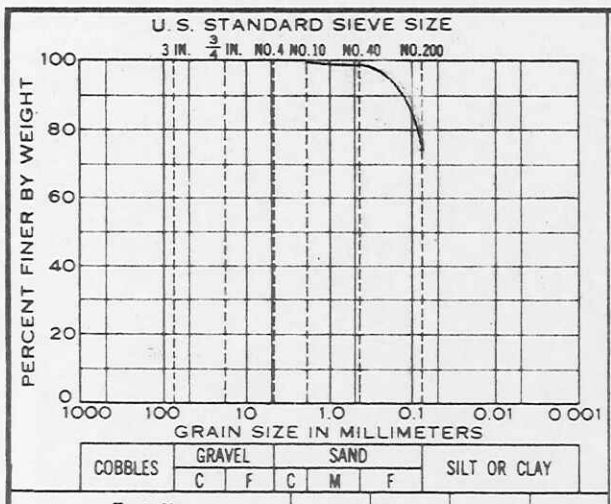
6. DIRECTION OF HOLE			7. THICKNESS OF OVER-BURDEN	8. DEPTH DRILLED INTO ROCK	9. TOTAL DEPTH OF HOLE
☐ VERTICAL	☐ INCLINED	DEGREES WITH VERTICAL			65.0

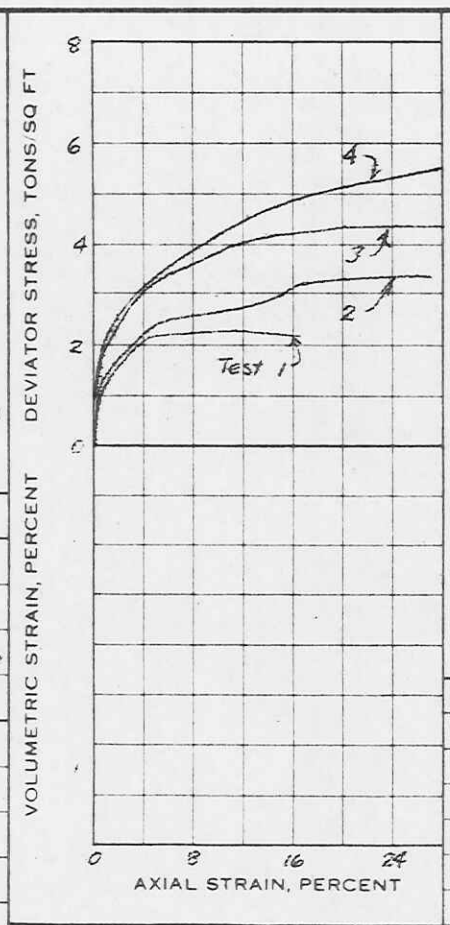
10. SIZE AND TYPE OF BIT	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	12. MANUFACTURER'S DESIGNATION OF DRILL
Shelby Tube - 6"		

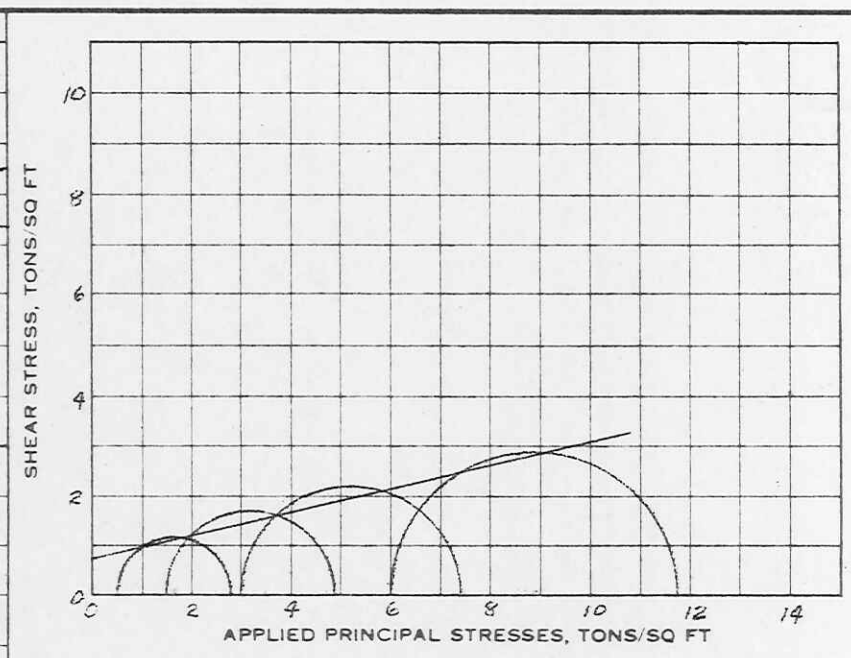
13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN		14. TOTAL NO. CORE BOXES	15. ELEV. GROUND WATER	16. DATE HOLE	
DISTURBED	UNDISTURBED			STARTED	COMPLETED
4 Jars	6 Cont			25 June	25 June 1962

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	34.0		Water			
34.0	36.0		34.5-35.0 3 blows 35.0-35.5 1 blow Gray sand silt, w/shell frag and grass	SM		Jar 1
36.0	40.0		Washed, sand silt			
40.0	42.0		Gray sand silty clayey w/shell fragments, stiff	SC		Cont. 1 1.00
42.0	44.0		Gray clay sandy w/cal nod v/stiff	CL		Cont. 2 2.75
44.0	46.0		Tan clay sandy w/cal nod hard			Cont. 3 4.50
46.0	48.0		Gray sand, clayey w/cal nod v/stiff			Cont. 4 Top 2.50 Bottom 3.00
48.0	50.0		Tan and gray sand clayey w/cal nod	SC		Cont. 5 3.75
50.0	52.0		Same as above w/small sandstone nod, v/stiff			Cont. 6 2.75
52.0	54.0		Sand			
54.0	56.0		54.5-55.0 37 blows 55.0-55.5 61 blows Brown sand silty clay shell fragments			Jar 2
56.0	58.0		Same as above	SM		Washed
58.0	60.0		58.0-58.5 No count 58.5-59.0 83 blows 59.0-59.5 refusal Tan sand, fine w/shell frag			Jar 3
60.0	63.0		Same as above, sand w/shell fragments			No sample
63.0	65.0		63.0-63.5 No count 63.5-65.0 refusal Gray sand fine w/shell frag			Jar 4
			Bottomed at 65.0 in above Water 34.0 Weight of hammer 140# Drop Distance - 30"			







	Test No.	1	2	3	4
INITIAL	Water Content, W_0 %	20.1	21.8	19.0	21.7
	Dry Density Lbs/Cu Ft	106	105	109	105
	Void Ratio, e_0	.573	.600	.530	.600
	Saturation, S_0 %	94	98	96	97
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	2.79	4.87	7.39	11.77
	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	1.4	1.4	1.4
Initial Height Inc		3.0	3.0	3.0	3.0
Test Time to Failure Min		11	26	32	33

Type of Test – Q
Constant strain, 0.03 in/min
Control
Un Consolidated, Un Drained

Type of Specimen Undisturbed

Ø = 13.3°	Tan Ø = .237	c = 0.7 T/Sq Ft

Classification Sandy CLAY (CL)

LL 41	G 2.68
PL 12	D_{10}

Remarks:

Q test

Project Port Aransas – Corpus Christi

Foundation Material

Area GALVESTON DISTRICT

Boring No. 6ST-1	Sample No. S-13,598
Elev or Depth 44.0 - 46.0	Date SEP 62

TRIAXIAL COMPRESSION TEST REPORT

SWDGL Report No. 8007

Plate No. 4

ENG FORM 1 OCT 61 2089