HOLE NO. 3ST-143

DEPARTMENT OF THE ARMY DIVISION Southwestern INSTALLATION Galv Dist, Eng Div **DRILLING LOG**	1. PROJECT Matagorda Ship Channel SHEET OF 2. LOCATION (Coordinates or Station) Tide 1.' at 2:00 P.M. 3. DRILLING AGENCY U. S. Army Corps of Engineers
4. HOLE NO. (As shown on drawing title and file No.) 3ST-143	5. NAME OF DRILLER West
6. DIRECTION OF HOLE: ☐ VERTICAL ☐ INCLINED; DEGREES WITH VERTICAL	7. THICKNESS OF OVER-BURDEN; 8. DEPTH DRILLED INTO ROCK; 9. TOTAL DEPTH OF HOLE 46.0
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 30 Nov; COMPLETED 30 Nov 1961
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	11.0		Water			
11.0	13.0		Dark gray sandy clay w/tr silt and shell frag, v/soft			Cont. 1 0.0
13.0	17.0		Washed, same as above			No sample
17.0	19.0		Light gray sandy clay w/tr cal nod firm			Cont. 2 2.5
19.0	20.0		Washed, same as below			No sample
20.0	22.0		Rust to gray clayey sand, firm			Cont. 3 2.5
22.0	26.0		Same as below			No sample
26.0	28.0		Light gray silt to sand med			Jar 1
28.0	31.0		Washed, same as above			No sample
31.0	32.5		Light gray silty sand med 31.0-31.5 No count 31.5-32.0 8 blows 32.0-32.5 13 blows			Jar 2
32.5	35.0		Washed, same as above			No sample
35.0	36.5		Light gray shelly sand 35.0-35.5 No count 35.5-36.0 7 blows Light gray sandy shell small 36.0-36.5 21 blows			Jar 3
36.5	38.5		Washed, same as above			No sample
38.5	40.0		Gray sandy shell 38.5-39.0 No count 39.0-39.5 3 blows Gray sandy clay w/tr shell 39.5-40.0 5 blows			Jar 4
40.0	44.0		Washed, same as above			No sample
44.0	46.0		Gray to brown silty clay soft w/tr shell			Cont. 4 0.25
			Bottomed at 46.0 Weight of hammer 140# Drop Distance - 30"			

MATAGORDA SHIP CHANNEL & JETTIES
ALINGMENT "A"

TEST DATA SUMMARY

Sheet 4 of ____

FEATURE Log of Soil Borings

BORING NO.	SAMPLE NO.	DEPTH OR ELEV OF SAMPLE	LABORATORY CLASSIFICATION	MECHANICAL ANALYSIS GRAVEL %	SAND %	FINES %	D_{10}	ATTERBERG LIMITS LL	PI	SPECIFIC GRAVITY G	NATURAL WATER CONTENT %	NATURAL DRY DENSITY LBS/CU FT	COMPACTION DATA OPTIMUM WATER %	MAXIMUM DRY DENSITY LBS/CU FT	SHEAR DATA INITIAL e	DRY DENSITY LBS/CU FT	W_i %	W_f %	S_i %	TYPE TEST	SPECIMEN SIZE INCHES	TEST	σ_{III} T/SQ FT	σ_I T/SQ FT	C T/SQ FT	Ø DEGREES	PERMEABILITY e	K FT/MIN	CONSOLIDATION DATA P_o T/SQ FT	P_c T/SQ FT	e_c	t_{50}*	REMARKS
35T 143	61	0.0	= water surface (Elev +1.0 MLT)																														
		11.0		0-0-52																													
	5695		SC	0	52	48				7.0		40.0	83.1	Brown, Clayey sand (SC)																			
		13.0																															
	X		SC											Driller's Classification, same as above																			
		17.0		2-3-51																													
	5696		SC	1	56	43	4.5			9.0		18.0	115.0	Green to yellow, Clayey sand (SC), Hard																			
		19.0																															
	X		SC											Driller's Classification, same as below																			
		20.0		0-0-71																													
	5697		SC	0	71	29	4.5+			5.0		15.4	116.1	Gray to Green to yellow, Clayey sand (SC) Hard																			
		22.0																															
	X		SC											Driller's Classification, same as above																			
		26.0		0-0-88																													
	5698		Sm-SP	0	88	12				0.0		23.5		Green to Gray, silty sand (Sm-SP)																			
		28.0																															
	X		Sm-SP											Driller's Classification, same above																			
		31.0		0-1-96																													
	5699		SP	1	97	2						21.8		Gray, sand (SP), v/loose																			21/31.5-32.5
		32.5																															
	X		SP											Driller's Classification, same as above																			
		35.0		0-14	20-3-58																												
	5700		Sm-SP	14	81	5						15.9		Gray, shelly silty sand (Sm-SP) v/dense																			28/35.5-36.5
		36.5																															
	X		Sm-SP											Drillers Classification, same as above																			
		38.5		7-18	21-12-15																												
	5701		SM	25	48	27						20.9		Gray, silty sand & Shell (SM), medium dense																			8/39.0-40.0
		40.0																															
	X		SM											Drillers Classification, same as above																			
		44.0																															
	5702		CL	1	7	92	0.0	33.7	13.0			29.7	96.5	Brown Clay (CL) v/soft																			
		46.0																															
				Bottomed at 46.0' below water surface in Brown Clay (CL)																													
				Boring Location: Sta																													
				Tide 1.0' at 2:00 pm																													

* Values at Pressure T/SQ FT

- Triaxial Compression
UC - Unconfined Compression
DS - Direct Shear
UU - Unconsolidated Undrained
- Consolidated Drained
CU - Consolidated Undrained

X No Recovery

ENG FORM 1 Dec 71 2086