LOG OF BORING NO. 86-26

BOAT HARBOR AND TURNING BASIN
MATAGORDA, TEXAS

LOCATION: See Plate 1

SURFACE EL

DEPTH, FT	SYMBOL	SAMPLES	Description	BLOWS PER FT	% PASSING NO. 200 SIEVE	UNIT DRY WT LB PER CU FT	WATER CONTENT, % (Plastic Limit / Natural / Liquid Limit; 20, 40, 60)	UNDRAINED SHEAR STRENGTH KIPS PER SQ FT (0.5, 1.0, 1.5, 2.0, 2.5) / KILOPASCALS (25, 50, 75, 100, 125)	Penetrometer
	1-Q		Brown and gray clayey sand to very sandy clay with sand seams and roots						
			-with shell fragments below 4'						
5	2-Q*								
	3-Q		Stiff gray and brown clay - soft, with sand pockets and shell fragments to 12'					⊠	0.5
10	4-Q							⊠	0.2
	5-Q*		- with ferrous nodules, 12' to 16'					⊠	0.5
13	6-Q*							⊠	1.9
15	7-Q							⊠	1.9
	8-Q		- red and light gray below 17' - slickensided, 18' to 24'					⊠	1.9
20	9-Q							⊠	2.2
	10-Q							⊠	3.1
	11-Q		- with silt pockets below 24'					⊠	2.6
25	12-Q							⊠	2.6
	13-Q		- with silt and silty clay seams below 26'					⊠	3.1
30	14-Q*		Very stiff tan silty clay with silt seams and pockets					⊠	3.7
	15-Q		Stiff red clay with silt and silty clay seams - with numerous silt pockets, 32' to 38'					⊠	2.8
	16-Q							⊠	3.0
35	17-Q*		- very stiff below 36' - with shell fragments, 37' to 39'					⊠	2.4
	18-Q*							⊠	3.7
40	19-Q							⊠	3.75
45									
50									

* Sample	Length
2	6-in.
5	9-in.
6	7-in.
14	9-in.
16	6-in (silt seams)
17	10-in
18	10 in

Driller: T. Mooney
Technician: B.B. Broughton
Drilling Equipment: Failing 250 on Ardco Buggy

JOB NO.: 0186-3016
COMPLETION DEPTH: 40 ft
DATE: June 3, 1986
DEPTH TO WATER IN BORING: 0.8 ft
CAVED AT: 9.0 ft
DATE: June 4, 1986

SAMPLER: 3-in. Thin-walled Tube

DRILLING METHOD: Wet Rotary

STRENGTH LEGEND
- ● Unconfined Compression
- ▲ Unconsolidated-Undrained Triaxial Compression
- ✦ Miniature Vane
- *(open symbols above indicate remolded tests)*
- ✧ Torvane
- ⊠ Hand Penetrometer

McCLELLAND ENGINEERS

Job Number	Boring Number	Sample Number	Penetration
01863022	86-26	1	2

Weight of Dry Soil (Total Sample): 58.74

Sieve Number	Cum. Wt. Retained (gms)	Diameter (mm)	Percent Finer
10	0.04	2.000	100
40	0.34	0.420	99
200	3.48	0.074	94

Job Number	Boring Number	Sample Number	Penetration
01863022	86-29	2	4

Weight of Dry Soil (Total Sample): 101.69

Sieve Number	Cum. Wt. Retained (gms)	Diameter (mm)	Percent Finer
40	0.45	0.420	100
200	22.11	0.074	78

Job Number	Boring Number	Sample Number	Penetration
01863022	86-32	2	6

Weight of Dry Soil (Total Sample): 116.22

Sieve Number	Cum. Wt. Retained (gms)	Diameter (mm)	Percent Finer
10	0.42	2.000	100
40	0.70	0.420	99
200	15.97	0.074	86

ABBREVIATED MECHANICAL SIEVE ANALYSIS

Drafted : Date : Checked : Date : Approved : Date : Form DFT-1.00 (12/81) Job No. :