

	H			~	LOCATION: See Plate 2			CLA	ASSIF	ICAT	ION			SHEA	AR S	TREN	IGTH	i
DEPTH, FT	WATER LEVE	SYMBOL		BLOWS PER FOOT	COORDINATES: 29° 43' 33" N 95° 03' 21" W SURFACE EL.: -4.0' (Assumed)	STRATUM DEPTH, FT	UNIT DRY WT, PCF	PASSING NO. 200 SIEVE, %	WATER CONTENT, %	LIQUID	PLASTIC	PLASTICITY INDEX (PI)	□ Penetrometer Uncon			Triax ture Va	nfined ▼ riaxial ● Vane ▲	
					STRATUM DESCRIPTION								0.	5 1.	.0 1	.5 2.	0 2	.5
	- - - -				CLAY, soft, gray, with shell fragments - gray and tan, with organic material below 2' - stiff below 5'		- - - -		35			- - - -]				
- - - - 10 -	- - - - -					— 11.5	- - - - _104 -		23			- - - -		ı		•		
- - - 15 -	- - -				SANDY CLAY, firm, tan and gray, with ferrous nodules and sand pockets SAND, medium-dense, fine-grained, tan and	16.0	- - -					- - -						
- - - 20 - -	- - -	>		30	light gray, with silt pockets		- - - -					- - - -						
- - 25 - - -	- -	>		3	- very loose below 23'	27.5	- - -	8				- - -						
- - - 30 -	- - -		/		SILTY CLAY, stiff, gray and brown, with silt pockets SANDY CLAY, very stiff to hard, light gray and	31.5	- - - -					- - -						
- - - 35 -	- -				tan, with sand pockets	62.5	_ _ _117		16			- - -						□ 5.1 _●
- - -	-				CLAY, stiff, reddish brown and gray, slickensided - with calcareous nodules and silt pockets, 37' to 40'	36.5	- - -					-						
2	. V 2. T	Vater erms	an	d sym	is 4' at time of drilling. bols defined on Plates A-32a and A-32b. re obtained by our field technician with a hand held	GPS de	vice.			TOTA CAVE DRY WET BACK	AL DE ED DE AUGE ROTA KFILL	ril 15, PTH: EPTH: ER: N ARY: : Cutti T. Mii	95' Not Apport Appoint Mudlings and appoint ap	plical	ole 95'		l	

NOTES:

- 1. Water depth was 4' at time of drilling.
- 2. Terms and symbols defined on Plates A-32a and A-32b.
- 3. Coordinates were obtained by our field technician with a hand held GPS device.

LOG OF BORING NO. B-22

DOCKS, BRIDGE, AND BARNES ISLAND IMPROVEMENTS BATTLEGROUND OIL SPECIALTY TERMINAL COMPANY HARRIS COUNTY, TEXAS





				~		LOCATION: See Plate 2		CLASSIFICATION SHEAR STRENGTH												
DEPTH, FT	WATER LEVEL SYMBOL	SYMBOL	SAMPLES	BLOWS PER FOOT		COORDINATES: 29° 43' 33" N 95° 03' 21" W SURFACE EL.: -4.0' (Assumed) STRATUM DESCRIPTION	8' 21" W Assumed)	STRATUM DEPTH, FT	UNIT DRY WT, PCF	PASSING NO. 200 SIEVE, %	WATER CONTENT, %	LIQUID	PLASTIC LIMIT	PLASTICITY INDEX (PI)	♦Torvane			Triax ture Va	confined ▼ Triaxial ● ure Vane ▲	
	-		+			CLAY, stiff, reddish brown and gray					-				0.5	1.	0 1.	5 2	0 2.	5
45 –	- - - -							46.5	- - - - _ 99		27	83	20	63_			•			
50 -	- - - -					SANDY CLAY, very stiff, gray and		51.5	-					- - -						
55 -	- - -					CLAY, very stiff, reddish brown and calcareous nodules and sandy sil	u gray, with It pockets		- - - -		18			- - - -						-+
60 -	- - - -					- with sandy silt seams below 58' SILTY CLAY, stiff, light gray and bi	rown, with	62.0	- - - -					- - -						_+
						sandy silt pockets and sandy silt - very stiff, reddish brown and gray calcareous nodules below 68'	seams y, with	- 73.0	- _ 96 - - - - -		29			- - - - - -				•	Ĺ	_+
75 -	- - -		Z			SANDY SILT, reddish brown and g clay pockets and calcareous nod	ules	77.0	_	78				_						
-						CLAY, very stiff, reddish brown and slickensided	d gray,	77.0	-					-						_ +
2	1. V 2. 7	- Nate Γerm	s aı	nd sy	mbo	4' at time of drilling. ols defined on Plates A-32a and A-3 obtained by our field technician wit		GPS dev	vice.			TOTA CAVE DRY A WET BACK	L DE ED DE AUGE ROTA	ER: N ARY:	95' Not A ot App Mudlin ings ar	licat e to	ole 95'		I	

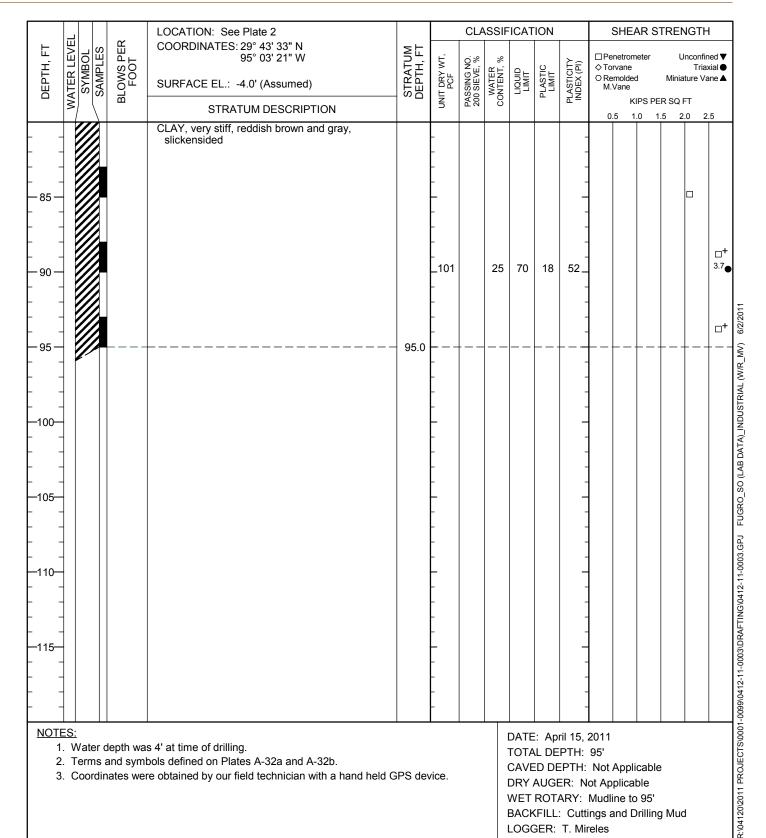
- 1. Water depth was 4' at time of drilling.
- 2. Terms and symbols defined on Plates A-32a and A-32b.
- 3. Coordinates were obtained by our field technician with a hand held GPS device.

LOG OF BORING NO. B-22 DOCKS, BRIDGE, AND BARNES ISLAND IMPROVEMENTS BATTLEGROUND OIL SPECIALTY TERMINAL COMPANY HARRIS COUNTY, TEXAS

PLATE A-13b







LOG OF BORING NO. B-22

DOCKS, BRIDGE, AND BARNES ISLAND IMPROVEMENTS BATTLÉGROUND OIL SPECIALTY TERMINAL COMPANY HARRIS COUNTY, TEXAS



BACKFILL: Cuttings and Drilling Mud

LOGGER: T. Mireles