

HOLE NO. 6ST-4						
DEPARTMENT OF THE ARMY						
DIVISION <u>Southwestern Division</u>						
INSTALLATION <u>Calv Dist, Eng Div</u>						
DRILLING LOG						
1. PROJECT Port Mansfield						
2. LOCATION (Coordinates or Station) Sta-4/35, E. 40, 420' R of C						
3. DRILLING AGENCY Brown & Root Marine Operators, Inc.						
4. HOLE NO. (As shown on drawing title and file No.) 6ST-4						
5. NAME OF DRILLER Fowler-Lewis-Perkins						
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED DEGREES WITH VERTICAL						
7. THICKNESS OF OVERBURDEN						
8. DEPTH DRILLED INTO ROCK						
9. TOTAL DEPTH OF HOLE 32.0						
10. SIZE AND TYPE OF BIT Shelby Tube						
11. DATUM FOR ELEVATION SHOWN (TBM or MSL)						
12. MANUFACTURER'S DESIGNATION OF DRILL						
13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN DISTURBED						
14. TOTAL NO. CORE BOXES						
15. ELEV. GROUND WATER						
16. DATE HOLE STARTED 23 Jan COMPLETED 23 Jan 1960						
17. ELEV. TOP OF HOLE -8.5 MLT						
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	2.0		Tan fine sand, trace of shell 2 blows 0-1' 2 blows 1-2'			Jars 1A & 1B
2.0	4.0		Same as above 4 blows 2-3' 5 blows 3-4'			Jars 2A & 2B
4.0	6.0		Same as above 12 blows 4-5' 23 blows 5-6'			Jars 3A & 3B
6.0	7.0		Same as above 5 blows 6-7'			Jar 4A
-15.5	7.0					
7.0	8.0		Soft gray very silty clay			Jar 4B
8.0	9.0		Same as above			Cont. 1 0.2
9.0	10.0		Top same as above, bottom, soft gray clay			Cont. 2 0.5
10.0	11.0		Soft gray clay			Cont. 3 0.7
11.0	12.0		Same as above, trace of red & shell by 12			Cont. 4 0.7
12.0	13.0		Soft gray and red clay, trace of shell			Cont. 5 0.7
13.0	14.0		Same as above			Cont. 6 0.7
14.0	15.0		Same as above, more shell			Cont. 7 0.8
15.0	16.0		Same as above			Cont. 8 0.8
16.0	17.0		Same as above			Cont. 9 0.8
17.0	18.0		Same as above. More shell & very sandy at bottom			Cont. 10
-26.5	18.5					
18.0	19.0		Gray clayey fine sand w/shell			Cont. 11
19.0	20.0		Same as above			Cont. 12
20.0	21.0		Same as above. Some gray & tan clayey silt			Cont. 13
-28.0	21.0					
21.0	22.0		Gray and tan clayey silt. Some sand and shell			Cont. 14 3.0
22.0	24.0		Very stiff tan and gray clay. Pushed 22-23' 46 blows 23-24'			Cont. 15 4.0
24.0	25.0		Very stiff tan and gray silty clay Layer gray fine sand 24-24.5 12 blows			Jars 5A & 5B
25.0	26.0		Very stiff tan and gray silty clay Hard clay at bottom, calcareous			Cont. 16 4.5/

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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						
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	% CORE RECOVERY	BOX OR SAMPLE NO.	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant)
26.0	28.0		Hard tan and gray clay, calcareous 16 blows 26-27' 49 blows 27-28'			Cont. 17 4.5'
28.0	30.0		Same as above 20 blows 28-29' 50 blows 29-30'			Cont. 18 4.5'
30.0	32.0		Hard tan and gray clay, calcareous 12 blows 30-31' 16 blows 31-32'			Cont. 19 4.5'
			Bottomed at 32.0 in above Water depth 8.5' Weight of hammer 670 lb. 2 ft. drop			

BORING NO.	SAMPLE NO.	DEPTH OR ELEV. OF SAMPLE	MECHANICAL ANALYSIS				ATTENBERG LIMITS		SAR L. S. %	NATURAL WATER CONTENT %	NATURAL DRY DENSITY LBS./CU. FT.	LABORATORY CLASSIFICATION
			GRAVEL %	SAND %	FINES %	DL %	LL	PL				
EST-3	59-	25.5										
(Cont)	3858		0	0	100	0.50	61.9		19.0	53.4	70.0	Br, CI (CH), So.
		27.0	(Samples 59, 3858)				0.50			35.2	85.1	Br, CI (CH), So
	3859		8-16-55									
		28.5	0	79	21	0.75			1.0	20.3	106.6	G, Si Sa (SM)
	3860		0	79	21	0.75						
		30.0	No Sample				Drillers Classification					G, Si Sa (SM)
		31.5										
	3861		0	20	80	0.75	41.3		11.5	23.7	103.5	G, CI (CL), PI.
		32.0										
			Bottomed @ 32.0' in				G, CI (CL), PI					
EST-4	60-	0.0	Gulf Water (Surface of Gulf floor 8.5' below water surface)									
		8.5										
	450		(Samples 60-451)				-			27.2	-	Br, Sa (SP)
			2-4-90									
	451		0	98	2	-			0.0	28.8	-	Br, Sa (SP)
		10.5										
	452		(Samples 60-453)				-			29.4	-	Br, Sa (SP)
			4-6-90									
	453		0	100	0	-			0.0	27.4	-	Br, Sa (SP)
		12.5										
	454		(Samples 60-455)							32.6	-	Br, Sa (SP)
			2-2-95									
	455		0	99	1	-			0.0	26.5	-	Br, Sa (SP)
		14.5										
	456		(Samples 60-455)				-			22.0	-	Br, Sa (SP)
		15.5										
	457		0	40	60	-	27.0		5.0	24.0	-	D, Sa CI (CL)
		16.5										
	458		0	41	59	1.75	27.8		5.0	22.9	102.7	Br, Sa CI (CL), PI.
		17.5										
	459		0	0	100	0.50	59.5	27.2	20.0	45.6	75.8	G, CI (CH), PI
		18.5										
	460		(Samples 60-459)				0.75			42.5	77.1	G, CI (CH), PI
		19.5										
	461		0	0	100	0.75	64.6		20.0	42.4	75.0	G, CI (CH), PI
		20.5										
	462		(Samples 60-461)				0.75			39.5	78.5	G, CI (CH), PI
		21.5										
	463		(Samples 60-462)				0.75			42.1	76.0	G, CI (CH), PI
		22.5										
	464		0	1	99	0.75	71.0		21.0	41.8	77.1	G, CI (CH), PI
		23.5										

* - Laboratory Penetrometer Readings

DLR-817

PORT MANUSFIELD

TEST DATA SUMMARY

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JETTY CONSTRUCTION

FEATURE LOG OF SOIL BORINGS

BORING NO.	SAMPLE NO.	DEPTH OR ELEV. OF SAMPLE	MECHANICAL ANALYSIS				ATTERBERG LIMITS		SAR L.S. %	NATURAL WATER CONTENT %	NATURAL DRY DENSITY LBS./CU. FT.	LABORATORY CLASSIFICATION
			GRAVEL %	SAND %	FINES %	Mo	LL	PL				
65-4	60-	23.5										
(Cont)	465		(Same as 60-464)				0.75			35.2	85.9	G, CI (CH), PI
		24.5										
	466		0	3	97	0.75	34.4		19.5	34.9	83.0	Br, CI (CH), PI
		25.5		47-50								
	467		0	61	39	0.50			5.0	23.8	95.5	Br, CI-Sa (SC)
		26.5										
	468		(Same as 60-469)				0.50			23.5	-	G, Si-Sa (SM)
		27.5		6-12-37								
	469		5	55	40	0.75			0.5	22.0	104.6	G, Si-Sa (SM)
		28.5										
	470		2	38	60	1.25	33.0		7.0	25.3	102.2	G, Sa CI (CL), St
		29.5										
	471		(Same as 60-470)				1.50			36.7	90.6	G, Sa CI (CL), St
		30.5										
	472		0	6	94	4.50	46.2		17.0	22.4	105.2	Br, CI (CL), Hd.
		32.5										
	473		(Same as 60-474)				-			20.9		Br, Si-Sa (SM)
				0-0.5								
	474		0	54	46	-			0.0	20.5		Br, Si-Sa (SM)
		33.5										
	475		(Same as 60-476)				1.75			20.2	108.6	Ru, CI (CL), St
		34.5										
	476		0	2	98	3.00	39.0		13.0	21.4	107.2	Ru, CI (CL) 1/2 St
		36.5										
	477		(Same as 60-478)				4.50			21.5	108.6	Ru, CI (CL), Hd.
		38.5										
	478		0	1	99	4.50	49.9		16.0	21.0	107.8	Ru, CI (CL), Hd.
		40.5										
			Bottomed @ 40.5' in Ru, CI (CL), Hd.									
65-5	60-	0.0										
			Gulf Water (Surface of Gulf Floor) 11.0' below water surface)									
		11.0		0.2-98								
	357		0	100	0	-			0.0	28.2		T, Sa (SP)
	358		(Same as 60-357)				-			25.3		T, Sa (SP)
		13.0		5-8-81								
	359		6	94	0	-			0.0	24.9		T, Sa (SP) w/shell
	360		(Same as 60-359)				-			21.4		T, Sa (SP) w/shell
		15.0		0-19	24-32-24							
	361		19	80	1	-			0.0	21.0		T, Shelly Sa (SP)
	362		(Same as 60-361)				-			61.8		T, Shelly Sa (SP)
		16.5										

* - Laboratory Penetrometer Readings

DLR. 8/7