

HOLE NO. 6ST-14

DEPARTMENT OF THE ARMY
DIVISION Southwestern
INSTALLATION Galv Dist, Eng Div

DRILLING LOG

1. PROJECT Port Mansfield SHEET OF
2. LOCATION (Coordinates or Station)
Sta. -20+00, Elev. -50, 550' L of C
3. DRILLING AGENCY
Brown & Root Marine Operators, Inc.
5. NAME OF DRILLER
C. Fowler-Lewis
7. THICKNESS OF OVERBURDEN
8. DEPTH DRILLED INTO ROCK
9. TOTAL DEPTH OF HOLE 34
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 UNDISTURBED
14. TOTAL NO. CORE BOXES
15. ELEV. GROUND WATER
16. DATE HOLE
STARTED COMPLETED
16 Jan 16 Jan 60
17. ELEV. TOP OF HOLE
-16.0 MLT (Est.)
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 w/shell 10 blows 0-1' 10 blows 0-2'			Jars 1A & 1B
2.0	3.0		Soft gray clay, small silt pockets			Cont. 1 0.5
3.0	4.0		Same as above			Cont. 2 0.5 0.5
4.0	5.0		Same as above			Cont. 3 0.5
5.0	6.0		Same as above			Cont. 4 0.5
6.0	7.0		Same as above			Cont. 5 0.5
7.0	8.0		Same as above			Cont. 6 0.5
8.0	10.0		Soft gray clay w/shell top, gray and red w/shell and silt partings in bottom			Cont. 7 0.5
10.0	11.0		Soft gray and red clay w/shell silt partings			Cont. 8 0.7
11.0	12.0		Same as above			Cont. 9 0.7
12.0	13.0		Soft gray and red clay, shell and clayey sand, intermixed			Cont. 10 0.5
13.0	14.0		Gray clayey sand and shell			Cont. 11 0.5
14.0	15.0		Same as above			Jars 2A & 2B
15.0	16.0		Top same as above, stiff gray and tan silty clay on bottom			Cont. 12 2.5
16.0	17.0		Stiff tan silty clay			Cont. 13 2.7
17.0	18.0		Same as above			Cont. 14 2.7
18.0	19.0		Same as above			Cont. 15 2.5
19.0	20.0		Same as above. Becomes sandy			Cont. 16 2.5
20.0	21.0		Tan fine sand, slightly clayey at bottom			Jars 3A & 3B
21.0	22.0		Tan fine sand, slightly clayey			Cont. 17 2.0
22.0	23.0		Same as above 17 blows 22-23'			Jars 4A & 4B
23.0	24.0		Top stiff tan clay, bottom tan fine sand. 18 blows 23-24'			Cont. 18 2.75
24.0	25.0		Tan clayey silt. Slightly sandy			Cont. 19 1.8
25.0	26.0		Top same as above. Bottom v/stiff tan silty clay			Cont. 20 4.5

DEPARTMENT OF THE ARMY DIVISION _____ INSTALLATION _____ DRILLING LOG			HOLE NO. 6ST-14			
			1. PROJECT Port Mansfield			
			SHEET OF			
2. LOCATION (Coordinates or Station) Sta.-20/00, Elev. 50, 550' L of G			3. DRILLING AGENCY			
4. HOLE NO. (As shown on drawing title and file No.)			5. NAME OF DRILLER			
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED DEGREES WITH VERTICAL			7. THICKNESS OF OVER-BURDEN	8. DEPTH DRILLED INTO ROCK	9. TOTAL DEPTH OF HOLE	
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		14. TOTAL NO. CORE BOXES		15. ELEV. GROUND WATER	16. DATE HOLE STARTED COMPLETED	
17. ELEV. TOP OF HOLE -16.0 MLT (EST)		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		Layered, stiff tan silty clay and sandy silt, slightly clayey			Cont. 21 4.5
28.0-	29.0		Tan fine sand, 10 blows 28-29'			Jars 5A & 5B
29.0 -	30.0		Layered, stiff tan clay and fine sand 25 blows 29-30'			Cont. 22 2.25
30.0 -	32.0		Layered stiff tan clay and fine sand 18 blows 30-31' 19 blows 31-32'			Cont. 23 3.5
32.0 -	33.0		Layered stiff light gray and tan sandy clay and tan sand 35 blows 32-33'			Cont. 24 1.25
33.0 -	34.0		Tan fine sand 55 blows 33-34'			Jars 6A & 6B
			Water depth 16 ft Hammer 680 lb, 2 ft drop Depth start at Gulf bottom 16' of water at lowest 34' samples = -50' 16' of water at 11:00 A.M. 17.5' water at 4:15 P.M. 17.5' water at 11:00 P.M.			

JETTY CONSTRUCTION

FEATURE LOG OF SOIL BORINGS

BORING NO.	SAMPLE NO.	DEPTH OR ELEV. OF SAMPLE	MECHANICAL ANALYSIS				ATTERBERG LIMITS		SHRINKAGE %	NATURAL WATER CONTENT %	NATURAL DRY DENSITY LBS./CU. FT.	LABORATORY CLASSIFICATION
			GRAVEL %	SAND %	FINES %	W _L %	LL	PL				
BSF-13	60-	30.0										
(Cont)	251	31.0	0	18	82	0.50	47.5		12.0	26.0	103.0	Br, CI (CL) PI, w/shell
	252	32.0	0	15	85	2.75	44.0		14.0	25.9	98.3	Bu, CI (CL), v/st.
	253	34.0	0	3	97	3.25	49.5		19.0	20.6	110.2	Ru, CI (CL), v/st.
	254	36.0	0	2	98	3.50	51.5		19.0	19.2	107.7	Ru, CI (CH), v/st.
	255	38.0	(Same as 60-254)				3.75			21.0	106.5	Ru, CI (CH), v/st.
	256	40.0	(Same as 60-254)				3.50			20.9	106.4	Ru, CI (CH), v/st.
	257	42.0	0	6	94	3.75	41.5		14.0	22.5	104.8	Ru, CI (CL), v/st.
	258	44.0	(Same as 60-257)				3.75			20.8	107.5	Ru, CI (CL), v/st.
	259	46.0	0	11	89	4.50	46.0	20.7	16.0	20.3	108.7	Ru, CI (CL), Hd.
	260	48.0	(Same as 60-259)				4.00			21.1	108.4	Ru, CI (CL), Hd.
	261	50.0	0	6	94	3.50	39.0		14.0	22.6	103.4	Ru, CI (CL), v/st.
-		60.0	No Sample				Drillers Classification					Br, Sa (SP)
	262	62.0	0	94	6	-			0.0	20.8	-	Br, Sa (SP)
	263	64.0	(Same as 60-262)				-			19.7	-	Br, Sa (SP)
-		70.0	No Sample				Drillers Classification					Br, Sa (SP)
	264	72.0	(Same as 60-263)				-			20.0	-	Br, Sa (SP)
	265	74.0	0	95	5	-			0.0	19.7	-	Br, Sa (SP)
-		76.0	No Sample				Drillers Classification					Br, Sa (SP)
	266	78.0	0	25	75	4.50	31.7		10.0	20.4	104.1	Br, Sa CI (CL), Hd.
			Bottomed @ 78.0' in Br, Sa CI (CL) Hd.									
BSF-14	60-	0.0	Gulf Water (Surface of Gulf floor 16.0' below water surface)									
		16.0	2-3-95									
	321		0	100	0				0.0	23.5	-	Br, Sa (SP)
	322		(Same as 60-321)							22.5	-	Br, Sa (SP)

18.0

* - Laboratory Penetrometer Readings

DLB 817

PORT MANSFIELD

TEST DATA SUMMARY

Sheet 20 of 21

JETTY CONSTRUCTION

FEATURE LOG OF SOIL BORINGS

BORING NO.	SAMPLE NO.	DEPTH OR ELEV. OF SAMPLE	MECHANICAL ANALYSIS				ATTERBERG LIMITS		SHRINKAGE %	NATURAL WATER CONTENT %	NATURAL DRY DENSITY LBS./CU. FT.	LABORATORY CLASSIFICATION
			GRAVEL %	SAND %	FINES %	* No	LL	PL				
65-14	60-	18.0										
(cont)	323	19.0	0	1	99	0.50	53.9		17.0	46.2	73.9	G, CI (CH), PI
	324	20.0	(Same as 60-323) 0.50							48.9	72.1	G, CI (CH), PI
	325	21.0	0	1	99	0.50	59.0	23.6	20.0	43.7	75.2	G, CI (CH), PI
	326	22.0	(Same as 60-323) 0.50							47.2	73.4	G, CI (CH), PI
	327	23.0	(Same as 60-323) 0.50							49.1	71.0	G, CI (CH), PI
	328	24.0	0	0	100	0.50	62.0	23.9	19.0	46.2	72.6	G, CI (CH), PI
	329	25.0	0	7	93	0.50	47.1		13.0	42.7	79.5	D, CI (CL), PI
	330	26.0	(Same as 60-331) 0.50							41.6	76.4	Ru, CI (CH), PI
	331	27.0	0	1	99	0.50	52.7					
	332	28.0	1	35	64	0.50	34.2		10.0	32.7	92.7	Ru-G, Sa CI (CL), PI w/shell
	333	29.0	9	67	24	0.50			2.0	25.0	101.5	D, Si Sa (SM), w/shell
	334	30.0	1	46	53	-	27.0		1.0	23.9	-	G, Sa CI (CL)
	335	31.0	(Same as 60-334) -							25.3	-	G, Sa CI (CL)
	336	32.0	0	4	96	1.50	48.1		15.0	23.1	97.4	Ru-G, CI (CL), st. w/shell
	337	33.0	2	4	94	1.50	48.4		19.0	24.0	99.1	Ru, CI (CL), st.
	338	34.0	0	1	99	3.50	47.8		17.0	29.1	95.8	Ru, CI (CL), v/st.
	339	35.0	0	8	92	1.25	50.6		15.0	30.5	91.2	Ru, CI (CH), st.
	340	36.0	0	6	94	1.25	42.3		14.0	28.3	98.8	Ru, CI (CL), st.
	341	37.0	0	32	68	-			0.0	27.7	-	Br, Sa Si (ML)
	342	38.0	(Same as 60-341) -							28.2	-	Br, Sa Si (ML)
	343	39.0	0	47	53	2.00			0.0	22.7	104.7	T, Sa Si (ML) v/st.
	344	40.0	0	38	62	-			0.0	23.4	-	Br, Sa Si (ML)
	345	41.0	(Same as 60-344) -							24.3	-	Br, Sa Si (ML)
	346	42.0	0	41	59	2.75			0.0	24.4	107.4	T, Sa Si (ML) v/st.

* - Laboratory Piezometer Readings

DLR B17

PORT MANUSFIELD
JETTY CONSTRUCTION

TEST DATA SUMMARY

FEATURE LOG OF SOIL BORINGS

Sheet 21 of 21

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 %	D ₁₀	LL	PL				
6ST-14	60-	40.0										
(CONT)	347	41.0	0	6	94	1.75	31.2		7.0	22.7	104.4	Ru, CI(CL), ST
	348	42.0	0	4	96	3.50	35.0		11.0	20.8	105.5	Ru, CI(CL), v/st, Bottom silty
	349	44.0	0	16	84	4.50	29.3		10.0	20.4	107.1	Ru, CI(CL), Hd.
	350	45.0	0	90	10	-			0.0	22.2	-	Br, Sa (SP)
	351	46.0	(Same as 60-350)				-			23.2	-	Br, Sa (SP)
	352	47.0	0	36	64	2.25			1.0	20.8	107.5	T, Sa Si (ML) v/st, layered
	353	48.0	0	17	83	3.50			1.0	20.5	108.6	T, Si (ML) v/st, layered
	354	49.0	0	55	45	1.25			4.0	16.5	107.8	Ru, Si Sa (SM)
	355	50.0	0	88	12	-			0.0	19.2	-	Br, Si Sa (SP-SM)
	356	50.0	(Same as 60-355)				-			20.4	-	Br, Si Sa (SP-SM)
			Bottomed @ 50.0' in Br, Si Sa (SP-SM)									