[redacted] **Hole No.** 3ST-311

DRILLING LOG	DIVISION Southwestern	INSTALLATION Galv Dist, Eng Div	SHEET OF SHEETS

1. PROJECT Sabine Neches Waterway	10. SIZE AND TYPE OF BIT
2. LOCATION *(Coordinates or Station)*	11. DATUM FOR ELEVATION SHOWN *(TBM or MSL)*
3. DRILLING AGENCY Dept of the Army, GD, Corps of Engineers	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. *(As shown on drawing title and file number)* 3ST-311	13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN — DISTURBED: 2 Jars; UNDISTURBED: 28 Cont
5. NAME OF DRILLER Black	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
	16. DATE HOLE — STARTED: 11 May; COMPLETED: 11 May 1967
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING %
9. TOTAL DEPTH OF HOLE 60.0	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS *(Description)* d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS *(Drilling time, water loss, depth of weathering, etc., if significant)* g	
0.0	2.0		Brown clayey sand, org.			Jar 1	
2.0	4.0		Brown sandy clay org, stiff			Cont. 1	1.50
4.0	6.0		Same as above, stiff			Cont. 2	1.50
6.0	8.0		Brown clay w/sand layers, stiff			Cont. 3	1.00
8.0	10.0		Gray and brown sandy clay, org, med			Cont. 4	0.50
10.0	12.0		Gray sandy clay, org, soft			Cont. 5	0.25
12.0	14.0		Gray clay, tr sand, medium			Cont. 6	0.75
14.0	16.0		Brown and gray clay, stiff			Cont. 7	1.25
16.0	18.0		Same as above, stiff			Cont. 8	1.50
18.0	20.0		Brown clay w/cal nods, v/stiff			Cont. 9	2.00
20.0	22.0		Brown clay, v/stiff			Cont. 10	2.50
22.0	24.0		Gray sandy clay, v/stiff			Cont. 11	2.25
24.0	26.0		Gray sandy clay w/cal nods, v/stiff			Cont. 12	2.25
26.0	28.0		Same as above, stiff			Cont. 13	1.50
28.0	30.0		Brown sand w/some clay layers stiff			Cont. 14	1.50
30.0	32.0		Brown clay w/silt and sand layers 30.0-30.5 No blows 30.5-31.0 6 blows 31.0-31.5 7 blows 31.5-32.0 No count			Jar 2	
32.0	34.0		Gray clay w/silt layers stiff			Cont. 15	1.25
34.0	36.0		Brown clay w/silt layers, stiff			Cont. 16	1.25
36.0	38.0		Same as above, stiff			Cont. 17	1.50
38.0	40.0		Same as above, stiff			Cont. 18	1.75
40.0	42.0		Brown silty clay, medium			Cont. 19	0.75
42.0	44.0		Gray and brown clay w/silt layers, stiff			Cont. 20	1.25
[illegible]			continued				

Hole No. 3ST-311(Cont'd)

DRILLING LOG	DIVISION Southwestern	INSTALLATION Galv Dist, Eng Div	SHEET OF SHEETS

1. PROJECT: Sabine Neches Waterway
2. LOCATION (Coordinates or Station)
3. DRILLING AGENCY
4. HOLE NO. (As shown on drawing title and file number)
5. NAME OF DRILLER
6. DIRECTION OF HOLE: ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.
7. THICKNESS OF OVERBURDEN
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 — UNDISTURBED
14. TOTAL NUMBER CORE BOXES
15. ELEVATION GROUND WATER
16. DATE HOLE — STARTED — COMPLETED
17. ELEVATION TOP OF HOLE
18. TOTAL CORE RECOVERY FOR BORING %
19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	
44.0	46.0		Same as above, stiff			Cont. 21	1.25
46.0	48.0		Gray clay w/few silt layers stiff			Cont. 22	1.25
48.0	50.0		Same as above, stiff			Cont. 23	1.50
50.0	52.0		Gray clay, stiff			Cont. 24	1.25
52.0	54.0		Gray clay, stiff			Cont. 25	1.50
54.0	56.0		Gray clay, stiff			Cont. 26	1.25
56.0	58.0		Gray clay, stiff			Cont. 27	1.25
58.0	60.0		Gray clay, stiff			Cont. 28	1.50
			BOTTOMED				

SWG Form 267(C)
28 Jan 1965

PROJECT: Sabine Neches Waterway

BORING NO. 2ST-311

TEST DATA SUMMARY

LOCATION:

DATE DRILLED 11 May 1967

BOTTOM AT 60'

WATER AT ?

CLASSIFICATION

ELEVATION TOP BORING

FIELD NO.	DEPTH		SYMBOL	CONSISTENCY	POCKET (1) PENETROMETER	STAN. PENET. BLOWS/FT (2)	MOISTURE CONTENT %	DRY DENSITY p. c. f.	L.L.	P.L.	BAR L.S.	SIEVE ANALYSIS PERCENT GRVL	SAND	FINES	INIT. WT.	ACC. WT. RTND. SIEVE NO. (3) NO. 4	NO. 10	NO. 40	NO. 200
J-1	0-2	Brown sandy clay 0-2	CL				21	—			6.0	0	26	74	50	0	0	0	13
C-1	2-4	Brown clay 2-8	CH	ST	1.25		28	92											
C-2	4-6	Sand layers 6-9		M	0.75		27	95											
C-3	6-9			ST	1.0		41	84			20.0	0	2	98	50	0	0	0	1
C-4	9-10	Gray sandy clay 9-10	CL	M	0.5		29	93			13.0	0	16	84	50	0	0	0	5
C-5	10-12	Gray silty sand 10-12	SM	S	0.25		24	102			2.0	0	54	46	50	0	0	1	27
C-6	12-14	Gray clay 12-22	CH	M	0.75		29	100											
C-7	14-16			ST	1.0		31	92											
C-8	16-18			ST	1.5		28	95			23.0	0	4	96	50	0	0	0	2
C-9	18-20			VST	2.25		31	92											
C-10	20-22			VST	2.0		31	93											
C-11	22-24	Gray sandy clay 22-	CL	VST	2.75		17	114	35		12.0	0	30	70	50	0	1	1	15
C-12	24-26	28		VST	3.25		16	114											
C-13	26-28	Cal Nods 22-26		ST	1.75		19	110											
C-14	28-30	Brown sandy silt 28-30	ML	S	0.25		23	101			0.0	0	40	60	50	0	0	0	20
J-2	30-32	Gray clay 30-42	CH				32	—											
C-15	32-34			ST	1.5		34	88			19.0	0	0	100	50	0	0	0	0
C-16	34-36			ST	1.25		32	89											
C-17	36-38	Silt layers 30-48		ST	1.25		31	91											
C-18	38-40			ST	1.75		31	92											
C-19	40-42			M	2.75		31	89											
C-20	42-44	Gray clay 42-44	CL	ST	1.25		37	86	47		15.0	0	0	100	50	0	0	0	0
C-21	44-46	Gray clay 44-60	CH	ST	1.25		39	84											
C-22	46-48			ST	1.0		37	86											
C-23	48-50			ST	1.25		32	88											
C-24	50-52			ST	1.0		41	80			21.0	0	0	100	50	0	0	0	0
C-25	52-54			ST	1.25		43	78											
C-26	54-56			ST	1.0		46	75											
C-27	56-58			ST	1.25		49	72											
C-28	58-60			ST	1.0		49	72			23.0	0	0	100	50	0	0	0	0

KEY: CONSISTENCY — COHESIVE SOILS: VS Very Soft, S Soft, M Medium, ST Stiff, VST Very Stiff, H Hard. CONSISTENCY — COHESIONLESS SOILS: VL Very Loose, L Loose, M Medium, D Dense, VD Very Dense.

(1) Tons/Sq.Ft. Unconfined Compressive Strength
(2) Split Barrel Sampler
(3) Acc. Wt. Rtnd ÷ Init. Wt. x 100 = % Rtnd.

BORING NO. 3ST-311