Hole No. 6ST-1

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

1. PROJECT GIWW - Traffic Control Tower	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station) Colorado River Locks	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY U. S. Army Corps of Engineers	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 6ST-1	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED 10 Jars; UNDISTURBED 25 Cont
5. NAME OF DRILLER Curtis	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
	16. DATE HOLE: STARTED 18 Oct; COMPLETED 19 Oct 1965
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE 8.5 M.S.L.
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING %
9. TOTAL DEPTH OF HOLE 61.0	19. SIGNATURE OF INSPECTOR

ELEVATION 8.5	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		Tan sandy clay, org. mat. shell fragments			Jar 1
2.0	4.0		Same as above, medium			Cont. 1 0.75
4.0	6.0		Same as above			Jar 2
6.0	8.0		Tan sandy clay			Jar 3
8.0	10.0		Same as above			Cont. 2 UNC
10.0	11.4		Brown sandy clay w/shell v/soft			Cont. 3 0.0
-2.9 11.4	12.0		Brown clay w/tr sand, v/stiff			Cont. 4 2.75
12.0	14.0		Brown clay w/sand pockets v/stiff			Cont. 5 2.75
14.0	16.0		Gray and tan clay w/sand pockets v/stiff			Cont. 6 UNC 2.00
16.0	18.0		Same as above, hard			Cont. 7 4.00
18.0	20.0		Same as above, v/stiff			Cont. 8 2.00
-11.5 20.0	22.0		Brown sandy clay w/shell fragments, v/soft			Cont. 9 0.0
22.0	24.0		Sand, tr shell			Jar 4
24.0	25.0		Same as above, no sample			
25.0	27.0		Tan clay w/layer of sand 25.0-25.5 seat pent 25.5-26.0 5 blows 26.0-26.5 7 blows 26.5-27.0 hold sample			Jar 5
27.0	28.0		Tan clay, tr sand, v/stiff			Cont. 10 3.00
28.0	30.0		Sand w/shell fragments			Jar 6
30.0	30.5		Red clay, v/stiff 30.0-30.5 sand 30.5-32.0 red clay, v/stiff 30.0-30.5 Seat pent 30.5-31.0 7 blows 31.0-31.5 10 blows 31.5-32.0 hold sample			Jar 7 Jar 8
-23.5 32.0	33.5		Red clay, v/hard			Cont. 11 4.50+
33.5	35.0		Same as above, v/hard			Cont. 12 UNC 4.50+
-26.5 35.0	36.0		Red sandy clay w/cal nods stiff			Cont. 13 1.50
			continued			

ENG FORM 1836 1 APR 63 PREVIOUS EDITIONS MAY BE USED (EM 1110-1-1801)

PROJECT GIWW Traffic Control Tower, Colo River Locks | HOLE No. 6ST

DRILLING LOG	DIVISION	INSTALLATION	SHEET OF SHEETS

1. PROJECT GIWW - Traffic Control Tower	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station) Colorado River Locks	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number)	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
	15. ELEVATION GROUND WATER
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	16. DATE HOLE: STARTED / COMPLETED
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	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	
36.0	36.5		Red sand w/clay layers			Jar 9	
36.5	38.5		Sand 36.5-37.0 Seat pent 37.0-37.5 13 blows 37.5-38.0 25 blows 38.0-38.5 hold sample			Jar 10	
38.5	40.0		Same as above, washed				
40.0	41.0		Same as above			No sample	
41.0	43.0		Red clay, tr sand shell fragments, stiff			Cont. 14	1.50
43.0	45.0		Brown clay, v/stiff			Cont. 15	2.50
45.0	46.5		Gray clay w/cal nods, med			Cont. 16	0.75
46.5	48.0		Same as above, v/stiff			Cont. 17	3.50
48.0	50.0		Same as above, v/stiff			Cont 18	2.50
50.0	52.0		Same as above, v/stiff			Cont. 19	2.50
52.0	53.0		Brown clay w/sand layers v/stiff			Cont. 20	3.50
53.0	55.0		Same as above, hard			Cont. 21	4.00
55.0	56.5		Same as above, v/hard			Cont. 22	4.50+
56.5	58.0		Red clay, v/hard			Cont. 23	4.50+
58.0	59.5		Same as above, v/hard			Cont. 24	4.50
59.5	61.0		Same as above, v/stiff			Cont. 25	3.75
			BOTTOMED				
			Water table 7.5' Rose to 6.3'				
			about 10' below road				

SWG Form 279 (C)
28 Jan 1965

SUMMARY UNCONFINED COMPRESSION TEST DATA
TABLE 1

GALVESTON DISTRICT LABORATORY REPORT NO. 1056

PROJECT GIWW Colorado River Locks Traffic Control Tower

BORING NO	DEPTH FT	% GRAVEL	% SAND	% FINES	% MOISTURE	DRY WT. P.C.F.	L.L.	P.L.	L.S.	% STRAIN @ MAX. STRESS	MAX. STRESS P.S.F.	POCKET PENETRO-METER*	CLASSIFICATION
GST-1	8-10	0	12	88	43.8	80	48	-	16.0	12.50	498	0.5	Brown & Gray clay (CL), Medium
"	14-16	0	18	82	20.3	108	35	-	12.0	4.38	3666	3.25	Brown sandy clay (CL), v/stiff
"	33.5-35.5	0	8	92	31.4	100	79	-	20.0	6.25	5129	3.5	Tan & Brown clay (CH), v/stiff

*TONS/SQ.FT. UNCONFINED COMPRESSIVE STRENGTH

SWG Form 267(C)
28 Jan 1965

PROJECT: G.I.W.W.

LOCATION: Colorado River Locks

TEST DATA SUMMARY

BORING NO. 6st-1

DATE DRILLED 18 Oct 1965

FIELD NO.	DEPTH	CLASSIFICATION ELEVATION TOP BORING _____	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 Clay from 0-10	CL				16.4												
C-1	2 - 4	Sandy from 2-4		ST	1.5		23.0	95			7.0	0	22	78	50	0	0	0	11
J-2	4 - 6						25.9												
J-3	6 - 8						29.4												
C-2	8 - 10			M	0.5		43.8	80	48		16.0	0	12	88	50	0	0	0	6
C-3	10 - 11½	Brown Sandy Silt from 10-11.4	ML				29.1	95			1.0	0	40	60	50	0	0	0	20
C-4	11½ - 12	Brown & Gray Clay from	CL	VST	2.75		23.4	103											
C-5	12 - 14	11.4 - 22		VST	3.75		19.7	109											
C-6	14 - 16	Sandy from 14-16		VST	3.25		20.3	108	35		12.0	0	18	82	50	0	0	1	9
C-7	16 - 18			ST	2.0		19.5	109			6.0	0	6	94	50	0	0	0	3
C-8	18 - 20			VST	2.25		21.6	107											
C-9	20 - 22	Shell fragments 20-22		ST	1.5		35.3	95											
J-4	22 - 24	Brown clayey sand from	SC				36.0				8.0	0	60	40	50	0	0	1	30
X	24 - 25	22 - 25																	
J-5	25 - 27	Tan & Brown Clay 25' - 28'	CL	ST		12	30.7												
C-10	27 - 28			VST	2.5		22.3	105			12.0	0	6	94	50	0	0	1	3
J-6	28 - 30	Tan silty sand from 28-30	SM				30.6				0.0	2	53	45	100	2	2	2.3	55
J-7	30 - 30½	Tan sandy silt from 30-30.5	ML				28.2				0.0	0	30	70	50	0	0	0	15
J-8	30½ - 32	Brown Clay, w/ Cal Nod from	CH	VST		17	31.1												
C-11	32 - 33½	30.5 - 36.0		H	4.5		25.3	98			20.0	0	0	100	50	0	0	0	0
C-12	33½ - 35			VST	3.5		31.4	100	79		21.0	0	8	92	50	0	0	0	4
C-13	35 - 36			VST	2.75		23.1	106											
J-9	36 - 36½	Tan silty sand from 36 -	SM				26.1				0.0	0	68	32	50	0	0	0	34
J-10	36½ - 38½	41		VD		38	24.6				0.0	0	62	38	50	0	0	0	31
X	38½ - 40																		
X	40 - 41																		
C-14	41 - 43	Brown & Gray Clay from	CH	VST	2.5		26.7	98											
C-15	43 - 45	41 - 61		VST	2.25		32.8	93			20.0	0	8	50	50	0	0	0	4
C-16	45 - 46½	Cal Nod from 41-43½		VST	2.0		31.1	94											
C-17	46½ - 48	45 - 48		VST	3.25		25.0	102											

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. 6st-1

SWG Form 267(C)
28 Jan 1965

PROJECT: G.I.W.W.

BORING NO. 6st-1

TEST DATA SUMMARY

LOCATION: Colorado River Locks

DATE DRILLED

FIELD NO.	DEPTH	CLASSIFICATION ELEVATION TOP BORING	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
C-18	48-50		CH	VST	3.75		24.9	102											
C-19	50-52			VST	2.25		24.1	102											
C-20	52-53			H	4.25		24.0	105											
C-21	53-55			H	4.0		24.5	102			20.0	0	0	100	50	0	0	0	0
C-22	55-56½			H	4.5		25.5	104											
C-23	56½-58			VST	3.5		24.0	102											
C-24	58-59½			H	4.0		22.5	106											
C-25	59½-61			VST	3.75		26.1	102											
		water @ 7.5																	

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. 6st-1