

U.S. ARMY CORPS OF ENGINEERS

BKM

DEPTH, FEET	SAMPLE NO.	PEN./TORVANE SPT.-BLOW COUNT	GENERAL INFORMATION				
			BORING NO. <u>9139</u>	DATE: BEGIN <u>03-11-91</u>	PAGE <u>11/</u>	JOB NO. <u>14G 446</u>	COMPLETE <u>03-11-91</u>
			PROJECT <u>CHANNEL TO VICTORIA</u>		LOCATION <u>VICTORIA CHANNEL</u>		
			ELEVATION OF HOLE _____		MANUFACTURER'S DESIGNATION OF DRILL RIG <u>F-36</u>		
			GROUNDWATER: DEPTH <u>3</u> ft., ELEV. _____ ft., at end of Drilling		WEATHER <u>PARTLY CLOUDY & WINDY</u>		
			DRILLER <u>ROBERT TANKERSLEY</u>		LOGGER <u>JOHN A. GENTRY</u>		
			COLOR	MATERIAL TYPE	CONSISTENCY	SECONDARY CONSTITUENTS	STRUCTURAL FEATURES AND COMMENTS
0	1	1.25	GRAY	CLAY	STIFF		-w/ROOTS 0'-
	2	1.0	"	"	"		
5	3	0.75	"	"	MEDIUM STIFF		
	4	0.75	"	"	"		
	5	0.75	"	"	"		
10	6	0	"	"	VERY SOFT		-w/SAND SEAMS and shell fragments @ 10'
	7	0.25	"	"	SOFT		
15	8	0.25	"	"	"		-w/ORGANIC 14'-22'
	9	0.25	"	"	"		
	10	0.25	"	"	"		
20	11	0.25	"	"	"		
	12	0	GRAY	CLAY	VERY SOFT	VERY SANDY	-w/SAND LAYER & SHELL fragments 22-26'
25	13	0	"	"	"	"	
	14	1 1/2	GRAY	SAND	LOOSE		SILTY FINE-w/SHELL FRAGMENT 26 1/2 - 30 1/2
30	15	0.75	DARK GRAY	clay	MEDIUM STIFF		-w/LIGHT GRAY-w/ORGANIC
	16	1.0	"	"	STIFF		
35							BOTTOM OF 9139

JOB NO. 14G459

DATE 4/25/91

PROJECT CHANNEL ENLARGEMENT, CHANNEL TO VICTORIA, TEXAS

LOGGING NO. 91-39

SAMPLE NO. 15

DEPTH 31-33 ft

SPECIMEN NO. 1

CLASSIFICATION

Dark gray, Clay, Medium stiff, w/ organic materials

Tare No.	P-3	Height	5.595 in.
Tare plus Wet Specimen	896.60 gm	Average Diameter	2.830 in.
Tare plus Dry Specimen	484.27 gm	Initial Area	6.290 sq in.
Water Weight	412.33 gm	Volume	35.194 cu in.
Tare Weight	42.56 gm	Volume of Solids	cu in.
Wet Specimen	854.04 gm	Void Ratio	
Dry Specimen	441.71 gm	Saturation	%
Water Content	93.35 %	Dry Density	47.8 lb/cu ft
Specific Gravity of Solids			
LL = 150	PL = 59	PI = 91	

Proving Ring No. 10170

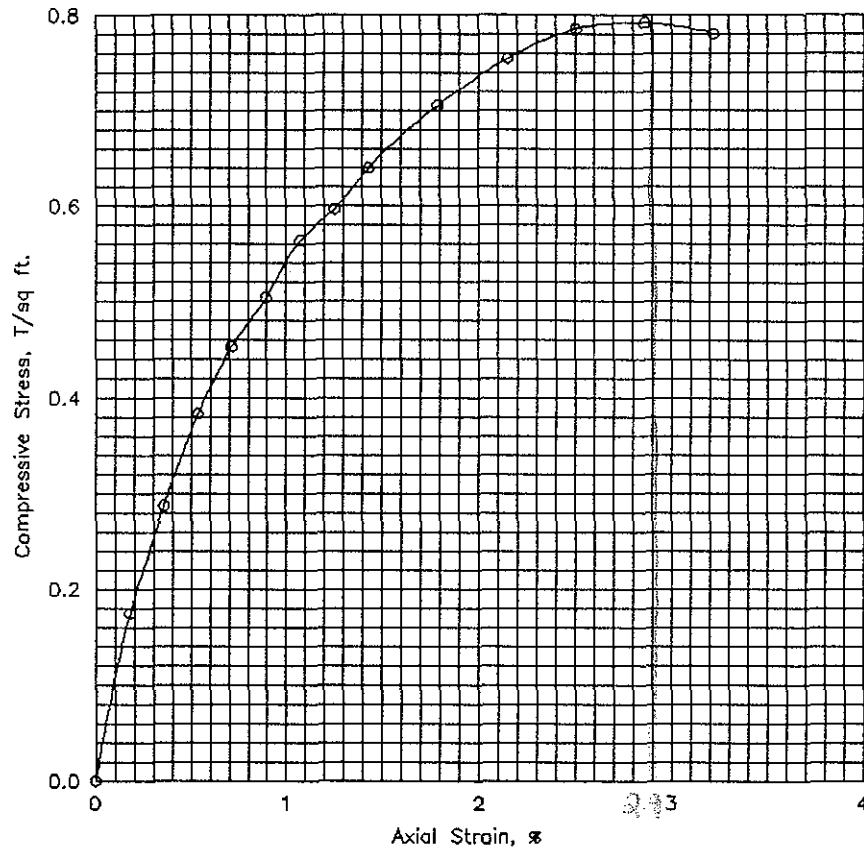
Proving Ring Constant, K = .766 lbs/div.

Elapsed Time min.	Dial Reading 0.001"	Cumulative Change in.	Proving Ring Dial Reading	Axial Load lb	Axial Strain	Area Corr. sq in.	Compr. Stress tsf
.0	0.	.000	.0	.0	.000	6.29	.000
.3	10.	.010	20.0	15.3	.002	6.30	.175
.5	20.	.020	33.0	25.3	.004	6.31	.288
.7	30.	.030	44.0	33.7	.005	6.32	.384
.8	40.	.040	52.0	39.8	.007	6.34	.453
1.1	50.	.050	58.0	44.4	.009	6.35	.504
1.2	60.	.060	65.0	49.8	.011	6.36	.564
1.3	70.	.070	69.0	52.9	.013	6.37	.597
1.5	80.	.080	74.0	56.7	.014	6.38	.640
1.9	100.	.100	82.0	62.8	.018	6.40	.706
2.2	120.	.120	88.0	67.4	.021	6.43	.755
2.5	140.	.140	92.0	70.5	.025	6.45	.786
2.8	160.	.160	93.0	71.2	.029	6.48	.792
3.2	180.	.180	92.0	70.5	.032	6.50	.781

Job No. 14G459

EM 1110-2-1906
Appendix XI
30 Nov 70

Failure Sketches



- Controlled stress
- Controlled strain

Test No.		1	
Type of Specimen		Undisturbed	
Initial	Water content	w_0	93.3 %
	Void ratio	e_0	
	Saturation	S_0	%
	Dry density, lb/cu ft	γ_d	47.8
Time to failure, min		t_f	2.83
Unconfined compressive strength, T/sq ft		q_u	.79
Undrained shear strength, T/sq ft		S_u	.40
Sensitivity ratio		S_t	
Initial specimen diameter, in.		D_0	2.830
Initial specimen height, in.		H_0	5.595
Classification Dark gray, Clay, Medium stiff, w/ organic materials			
LL	150	PL	59
		PI	91
		G_s	
Remarks		Project CHANNEL ENLARGEMENT, CHANNEL TO VICTORIA	
		Area Victoria, Texas	
		Boring No. 91-39	Sample No. 15
		Depth 31-33 ft	Date 4/25/91
		UNCONFINED COMPRESSION TEST REPORT	