

U.S. ARMY CORPS OF ENGINEERS

DEPTH, FEET	SAMPLE NO.	PEN./TORVANE	SPT.-BLOW COUNT	BORING NO. 90-190 DATE: BEGIN 1/1/71 PAGE 1/1				
				JOB NO. 196437 COMPLETE 1/2/71 Thin Walled Tube				
				PROJECT Victoria Channel				
				LOCATION Sea Drift				
				ELEVATION OF HOLE				
				MANUFACTURER'S DESIGNATION OF DRILL RIG Failing-76				
				GROUNDWATER: DEPTH 4'1" ft., ELEV. ft., at end of Drilling				
				WEATHER Clear, Warm				
				DRILLER D. M. Tebell				
				LOGGER J. Berg				
				COLOR	MATERIAL TYPE	CONSISTENCY	SECONDARY CONSTITUENTS	STRUCTURAL FEATURES AND COMMENTS
0	1	2.0		Gray Tan	clay	very stiff	Sand	w/Roots
	2	4.5+		Tan	clay	hard		
5	3	4.5+		"	"	"		
	4	4.5+		"	"	"		
	5	4 1/2	X	TAN	Sand	Medium Dense		Sh. @ 8'
10								
	6	4 1/6	X	Tan	Sand	"		
15								
	7	1 1/2	X	TAN	Sand	DENSE		w/clay Balls & Calc. Nods.
20								
	8	9 1/4	X	TAN	Sand	DENSE	clay	w/calc. Nods.
25								Bottom of 90-190 (25')
30								
35								

SUMMARY OF LABORATORY TEST RESULTS

Contract No. DACW64-91-D-0001 Delivery Order No. 0013

S # : Sample Number, P P : Pocket Penetrometer Reading, U S C : Unified Soil Classification, M c : Moisture Content
q u : Unconfined Compressive Strength, W O H : Weight of hammer, W O P : Weight of pipe

JOB NO. 14G475

DATE 5/27/91

PROJECT DISPOSAL AREA B, CHANNEL TO VICTORIA, NEAR SEADRIFT, TX

BORING NO. 90-190

SAMPLE NO. 2

DEPTH 2-4 ft

SPECIMEN NO. 1

CLASSIFICATION

Dark grayish brown, clay, hard, sandy

Tare No.	P-9	Height	5.595 in.
Tare plus Wet Specimen	475.05 gm	Average Diameter	2.830 in.
Tare plus Dry Specimen	411.53 gm	Initial Area	6.290 sq in.
Water Weight	63.52 gm	Volume	35.194 cu in.
Tare Weight	42.73 gm	Volume of Solids	cu in.
Wet Specimen	1246.63 gm	Void Ratio	
Dry Specimen	1063.46 gm	Saturation	%
Water Content	17.22 %	Dry Density	115.1 lb/cu ft
Specific Gravity of Solids			
LL = 37	PL = 18	PI = 19	

Proving Ring No. 10170

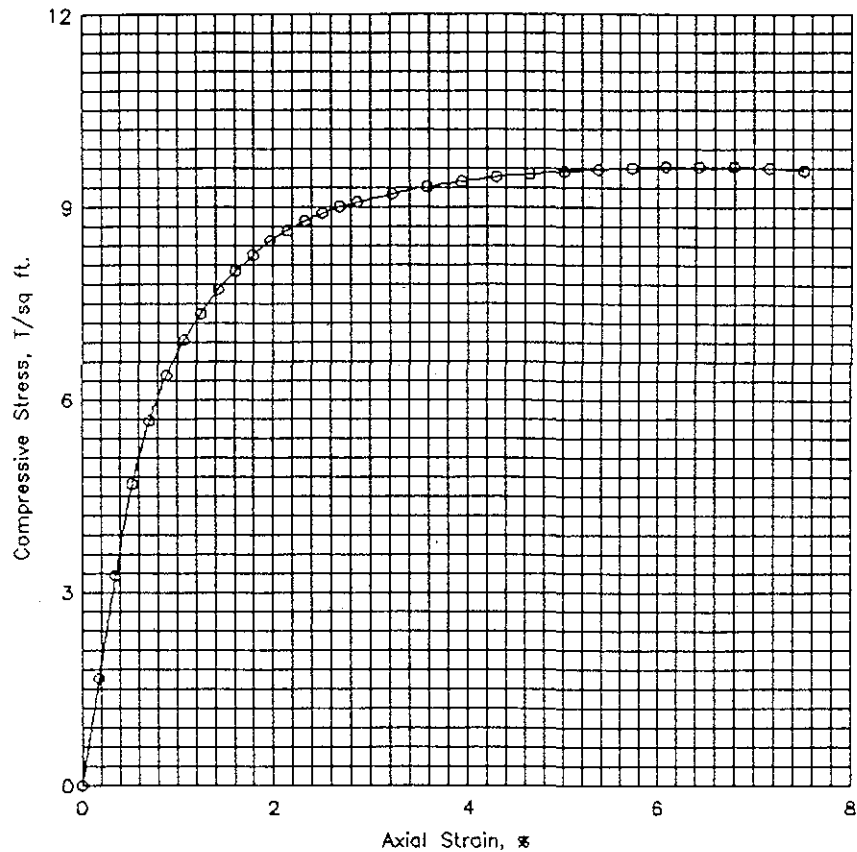
Proving Ring Constant, K = .766 lbs/div.

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
.6	10.	.010	190.0	145.5	.002	6.30	1.663
1.1	20.	.020	374.0	286.5	.004	6.31	3.267
1.5	30.	.030	539.0	412.9	.005	6.32	4.701
1.8	40.	.040	652.0	499.4	.007	6.34	5.676
2.1	50.	.050	735.0	563.0	.009	6.35	6.387
2.3	60.	.060	800.0	612.8	.011	6.36	6.939
2.6	70.	.070	849.0	650.3	.013	6.37	7.351
2.8	80.	.080	894.0	684.8	.014	6.38	7.726
3.0	90.	.090	929.0	711.6	.016	6.39	8.014
3.2	100.	.100	959.0	734.6	.018	6.40	8.258
3.5	110.	.110	987.0	756.0	.020	6.42	8.484
3.6	120.	.120	1007.0	771.4	.021	6.43	8.640
3.8	130.	.130	1026.0	785.9	.023	6.44	8.787
4.0	140.	.140	1042.0	798.2	.025	6.45	8.908
4.2	150.	.150	1056.0	808.9	.027	6.46	9.011
4.3	160.	.160	1067.0	817.3	.029	6.48	9.088
4.7	180.	.180	1085.0	831.1	.032	6.50	9.207
4.9	200.	.200	1102.0	844.1	.036	6.52	9.317
5.3	220.	.220	1116.0	854.9	.039	6.55	9.400
5.7	240.	.240	1129.0	864.8	.043	6.57	9.474
6.0	260.	.260	1139.0	872.5	.046	6.60	9.523
6.3	280.	.280	1148.0	879.4	.050	6.62	9.562
6.6	300.	.300	1155.0	884.7	.054	6.65	9.584
7.0	320.	.320	1163.0	890.9	.057	6.67	9.614
7.3	340.	.340	1169.0	895.5	.061	6.70	9.627
7.6	360.	.360	1174.0	899.3	.064	6.72	9.631
8.0	380.	.380	1178.0	902.3	.068	6.75	9.627

8.3	400.	.400	.420	1180.0	1180.0	903.9	903.9	.071	.075	6.77	6.80	9.607	9.570
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Job No. 14G475

Failure Sketches



☐ Controlled stress
☒ Controlled strain

Test No.		1			
Type of Specimen		Undisturbed			
Initial	Water content	w_0	17.2 %	%	%
	Void ratio	e_0			
	Saturation	S_0	%	%	%
	Dry density, lb/cu ft	γ_d	115.1		
Time to failure, min		t_f	7.62		
Unconfined compressive strength, T/sq ft		q_u	9.63		
Undrained shear strength, T/sq ft		S_u	4.82		
Sensitivity ratio		S_t			
Initial specimen diameter, in.		D_0	2.830		
Initial specimen height, in.		H_0	5.595		
Classification: Dark grayish brown, clay, hard, sandy					
LL	37	PL	18	PI	19
				G _s	
Remarks		Project DISPOSAL AREA B, CHANNEL TO VICTORIA			
		Area Near Seadrift, Texas			
		Boring No. 90-190		Sample No. 2	
		Depth 2-4 ft		Date 5/27/91	
		UNCONFINED COMPRESSION TEST REPORT			