

BORING LOG **FIELD DATA**

Project COLORADO RIVER Location EAST OF EAST JETTY Date 5 OCT. 1976
 Drill Rig FALING 1500 Inspector LANE Operator BLACK Surface elev 13.0 MTL 1045
 Levee District GALVESTON Job No. _____ Boring No. 76-189

SAMPLE NUMBER	DATE TAKEN	STRATUM		DRIVE		SAMPLE		TYPE OF SAMPLER	CONTAINER	POCKET PENETROMETER VALUE	CLASSIFICATION AND REMARKS
		FROM	TO	FROM	TO	FROM	TO				
	5 OCT 1976	0.0	15.0								WATER DEPTH 1045
1		15.0		15.0	15.5	15.0	17.0	DRIVE SAMPLER	JAR		TAN, GRAY VERY FINE, FINE SAND, 5 BLOWS
				15.5	16.0						7 BLOWS
				16.0	16.5						
			18.0	16.5	17.0						
		18.0		17.0	20.0			SHOULBY TUBE			GRAY SANDY CLAY WITH
2				20.0	22.5	21.5	22.5	UNC	TUBE 0.0		SHELL, VERY SOFT.
				22.5	25.0						WASHED AWAY
3				25.0	27.5	26.5	27.5		TUBE 0.0		
			32.4	27.5	30.0						WASHED AWAY
4		32.4		30.0	32.5	31.5	32.5	UNC	TUBE 0.50		GRAY, GREEN CLAY WITH
5				31.5	35.0	34.0	35.0		TUBE 1.50		SAND POCKETS, MEDIUM.
				35.0	40.0						WASHED AWAY
6				40.0	42.5	41.5	42.5		TUBE 1.50		STIFF.
			43.0	42.5	50.5						
		43.0		50.5	53.0						NO RECOVERY.

[illegible]

GDLR

UNCONFINED COMPRESSION TEST

DATE

4-21-77

PROJECT

Colorado River

EXCAVATION NUMBER

76-189

SAMPLE NUMBER

C-4

315
32.5

PROVING RING DIAL NUMBER

LC-2

PROVING RING NUMBER

5977

CALIBRATION CURVE NUMBER

1-5977

PROVING RING CONSTANT, K_r

119 + (DIAL READING x .303) *

VERTICAL DIAL NUMBER

LC-8

RATE OF LOAD APPLICATION

0.0 40

FORMULAS

$$\text{Area} = \frac{\pi D^2}{4} = \frac{C^2 D}{4}$$

$$\text{Corrected Area, } A = \frac{A_0 (\text{sq. ft.})}{1 - B}$$

$$\text{Unit Strain, } E = \frac{\Delta L}{L_0}$$

$$\text{Unit Stress} = \frac{P (\text{lb.})}{A (\text{sq. ft.})}$$

INITIAL MEASUREMENTS ON SAMPLE

AVERAGE AREA, A₀

	DIAMETER, D (in.)	CIRCUMFERENCE, C (in.)	AREA (sq. in.)	SQ. IN.	SQ. FT.
TOP					
CENTER					
BOTTOM					

ELAPSED TIME (min.)	PROVING RING DIAL READING (0.0001 in.)	LOAD, P (lb.) (Ring Dial x K _r or from calibration curve)	VERTICAL DIAL READING (in.)	VERTICAL DIAL DIFFERENCE, ΔL (in.)	UNIT STRAIN, E (in./in.)	CORRECTED AREA, A (sq. in.)	* UNIT STRESS (lb./sq. ft.)
	15		025	025			
	25		050	050	1.25	3.03	345
	35		075	075			
	43		100	100	2.50	3.06	587
	49		125	125			
	55		150	150	3.75	3.11	739
	61		175	175			
	66		200	200	5.00	3.15	875
	69		225	225			
	70		250	250	6.25	3.19	916
	71		275	275			
	72		300	300	7.50	3.23	931
	71		325	325	8.13	3.25	912
	71		350	350	8.75	3.28	904
	71		375	375	9.38	3.30	898
	71		400	400	10.00	3.32	893
			425	425			
			450	450			
			475	475			
			500	500			

WATER CONTENT (%)

W.W. in Cyl #3

465

2890

UNCONFINED COMPRESSIVE STRENGTH, q_u (lb./sq. ft.)

REMARKS AND CALCULATIONS (Use reverse side, if more space is needed)

FAILURE SKETCH

Pen - 0.50
Color - Brown - CONTAINS SHELLS
Dish - 114
W.W. - 370
D.W. - 289
VOIDS

TECHNICIAN (Signature)

R. WATTS

COMPUTED BY (Signature)

CHECKED BY (Signature)

GDLR

UNCONFINED COMPRESSION TEST

DATE

4-21-77

PROJECT

Coto. River

EXCAVATION NUMBER

76-189

SAMPLE NUMBER

C-6 41.5
42.5

PROVING RING DIAL NUMBER

LC-2

PROVING RING NUMBER

5977

CALIBRATION CURVE NUMBER

1-5977

PROVING RING CONSTANT, K_r 119 (DIAL READING $\times$ 303) *

VERTICAL DIAL NUMBER

LC-8

RATE OF LOAD APPLICATION

0°0

FORMULAS

$$\text{Area} = \frac{\pi D^2}{4} = \frac{C^2 D}{4} \quad \text{Corrected Area, } A = \frac{A_0 (\text{sq. ft.})}{1 - E} \quad \text{Unit Strain, } E = \frac{\Delta L}{L_0} \quad \text{Unit Stress} = \frac{P (\text{lb.})}{A (\text{sq. ft.})}$$

INITIAL MEASUREMENTS ON SAMPLE

AVERAGE AREA, A_0

	DIAMETER, D (in.)	CIRCUMFERENCE, C (in.)	AREA (sq. in.)	SQ. IN.	SQ. FT.
TOP					
CENTER					
BOTTOM					

ELAPSED TIME (min.)	PROVING RING DIAL READING (0.0001 in.)	LOAD, P (lb.) (Ring Dial $\times K_r$ or from calibration curve)	VERTICAL DIAL READING (in.)	VERTICAL DIAL DIFFERENCE, ΔL (in.)	UNIT STRAIN, E ($\frac{\Delta L}{L_0}$)	CORRECTED AREA, A (sq. in.)	* UNIT STRESS (lb./sq. ft.)
	35		025	025			
	85		050	050	1.25	3.03	1171
	112		075	075			
	122 ✓		100 ✓	100	2.50	3.06	1665
	121		125	125	3.13	3.09	1635
	113		150	150	3.75	3.11	1517
	88		175	175	4.38	3.13	1174
	64		200	200	5.00	3.15	8.48
			225	225			
			250	250			
			275	275			
			300	300			
			325	325			
			350	350			
			375	375			
			400	400			
			425	425			
			450	450			
			475	475			
			500	500			

WATER CONTENT (%)

W.W. in Cyl # 3 456 33.90

UNCONFINED COMPRESSIVE STRENGTH, q_u (lb./sq. ft.)

REMARKS AND CALCULATIONS (Use reverse side, if more space is needed)

Pen -

Color - GRAY + BROWN Crumbly

Dish - 135

W.W. - 362

D.W. - 273



TECHNICIAN (Signature)

COMPUTED BY (Signature)

CHECKED BY (Signature)