

BORING LOG **FIELD DATA**

Project COLORADO RIVER Location EAST OF EAST JETTY Date 5 OCT, 1976
 Drill Rig FALLING 1500 Inspector LANFORD Operator BLACK Surface elev +2.5 MLT 0800
 Levee District GALVESTON Job No. _____ Boring No. 76-190

SAMPLE NUMBER	DATE TAKEN 1976	STRATUM		DRIVE		SAMPLE		TYPE OF SAMPLER	CONTAINER	POCKET PENETROMETER VALUE	CLASSIFICATION AND REMARKS
		FROM	TO	FROM	TO	FROM	TO				
	5 OCT	0.0	11.5								WATER DEPTH 11.5 0830
		11.5		11.5	12.0						WASHED AWAY
1				12.0	12.5	12.0	14.0	DRIVE SAMPLER	JAR		GRAY VERY FINE, FINE SAND
				12.5	13.0						13 BLOWS WITH SHELL
				13.0	13.5						9 BLOWS
				13.5	14.0						
			17.0	14.0	17.0						WASHED AWAY
2		17.0		17.0	17.5	17.0	19.0		JAR		GRAY SANDY CLAY WITH SHELL
				17.5	18.0						1 BLOW VERY SOFT.
				18.0	18.5						1 BLOW
				18.5	19.0						
				19.0	20.0			SHELL BUT NO			WASHED AWAY
3				20.0	22.5	20.5	22.5	UNC	TUBE 0.0		
				22.5	25.0			OR			WASHED AWAY
4				25.0	27.5	26.5	27.5	UNC	TUBE 0.25		SOFT
				27.5	30.0						WASHED AWAY

BORING LOG FIELD DATA

Project COLORADO FIELD Location _____ Date _____
 Drill Rig _____ Inspector _____ Operator _____ Surface elev. _____
 Levee District _____ Job No. _____ Boring No. 76-190

SAMPLE NUMBER	DATE TAKEN	STRATUM		DRIVE		SAMPLE		TYPE OF SAMPLER	CONTAINER	POCKET PENETROMETER VALUE	CLASSIFICATION AND REMARKS
		FROM	TO	FROM	TO	FROM	TO				
5		32.4	33.4	30.0	33.5	31.5	32.5	UNC	TUBE	1.00	GREEN, GRAY CLAY WITH SAND POCKETS AND TRACE SHELL, STIFF.
				32.5	35.0						WASHED AWAY
6				35.0	37.5	36.5	37.5		TUBE	3.50	VERY STIFF.
				37.5	40.0						WASHED AWAY
7				40.0	42.5	41.5	42.5		TUBE	2.25	
				42.5	45.0						WASHED AWAY
8				45.0	47.5	46.5	47.5		TUBE	0.0	WITH LARGER SAND POCKETS, AND CALCAREOUS MATERIAL, VERY SOFT.
				47.5	50.0						WASHED AWAY
9		50.5	52.5	50.0	52.5	51.5	52.5		TUBE	0.0	WITH LARGER SAND POCKETS.
											TOTAL DEPTH 52.5
											1030 HOURS

GDLR-155

UNCONFINED COMPRESSION TEST			DATE 4-21-77
PROJECT Colo River		EXCAVATION NUMBER 76-190	SAMPLE NUMBER C-3 (21.5) 12.5
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 0.040	
FORMULAS $\text{Area} = \frac{\pi D^2}{4} = \frac{C^2}{4K_r}$ $\text{Corrected Area, } A = \frac{A_0 (\text{sq. ft.})}{1 - E}$ $\text{Unit Strain, } E = \frac{\Delta L}{L_0}$ $\text{Unit Stress} = \frac{P (\text{lb.})}{A (\text{sq. ft.})}$			

INITIAL MEASUREMENTS ON SAMPLE						AVERAGE AREA, A ₀	
TOP	DIAMETER, D (in.)	CIRCUMFERENCE, C (in.)	AREA (sq. in.)		SQ. IN.	SQ. FT.	
CENTER					HEIGHT, L ₀ (in.)		
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, B (in./in.) %	CORRECTED AREA, A (sq. in.) sq IN	* UNIT STRESS (lb./sq. ft.)
	17		025	025			
	30		050	050	1.25	3.03	413
	40		075	075			
	47		100	100	2.50	3.06	641
	53		125	125			
	57		150	150	3.75	3.11	765
	60		175	175			
	62		200	200	5.00	3.15	822
	63		225	225			
	64 ✓		250 ✓	250	6.25	3.19	838
	64		275	275	6.88	3.21	833
	64		300	300	7.50	3.23	827
	64		325	325	8.13	3.25	822
			350	350			
			375	375			
			400	400			
			425	425			
			450	450			
			475	475			
			500	500			

WATER CONTENT (%) W.W. in Cyl # 3 4.50 33.90	UNCONFINED COMPRESSIVE STRENGTH, q _u (lb./sq. ft.) FAILURE STRESS
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REMARKS AND CALCULATIONS (Use reverse side, if more space is needed)

Pen - **0.50**
 Color - **Gray** sample contained many shell
 Dish - **410** Fragments, voids where
 W.W. - **356** shell removed
 D.W. - **267**

TECHNICIAN (Signature) R. Watts	COMPUTED BY (Signature)	CHECKED BY (Signature)
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GDLR

UNCONFINED COMPRESSION TEST

DATE

4-21-77

PROJECT

EXCAVATION NUMBER

77-190

SAMPLE NUMBER

C-5

(31.5
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

0.040

FORMULAS

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

INITIAL MEASUREMENTS ON SAMPLE

AVERAGE AREA, A₀

	DIAMETER, D (in.)	CIRCUMFERENCE, C (in.)	AREA (sq. in.)	sq. in.	sq. ft.
TOP					
CENTER					
BOTTOM					

HEIGHT, L₀ (in.)

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.)
	29		025	025	1.25	3.03	841
	61		050	050	1.25	3.03	841
	86		075	075	1.25	3.03	841
	102		100	100	2.50	3.06	1392
	110		125	125	2.50	3.06	1392
	112		150	150	3.75	3.11	1504
	106		175	175	4.38	3.13	1414
	101		200	200	5.00	3.15	1339
	95		225	225	5.63	3.17	1251
	88		250	250	6.25	3.19	1152
			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

22.70

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

FAILURE SKETCH

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

Pen - 1.25
Color - Gray
Dish - 82
W.W. - 383
D.W. - 314



TECHNICIAN (Signature)

COMPUTED BY (Signature)

CHECKED BY (Signature)

DD FORM 1213

AUG 57

GPO 93115 n