

0800

BORING LOG FIELD DATA

Project COLORADO RIVER Location IMPROVEMENT BASIN Date 30 OCTOBER 1976
 Drill Rig FALLING 1500 Inspector LANGFORD Operator BLAKE Surface elev 2.3 MHT 0800
 Levee District GALVESTON Job No. _____ Boring No. 76-187

SAMPLE NUMBER	DATE TAKEN 1976	STRATUM		DRIVE		SAMPLE		TYPE OF SAMPLER	CONTAINER	POCKET PENETROMETER VALUE	CLASSIFICATION AND REMARKS
		FROM	TO	FROM	TO	FROM	TO				
	30 OCT.	0.0	8.5								WATER DEPTH 0800
1		8.5		8.5	12.5	8.5	12.5	3' MOBILE	JAR		GRAY VERY FINE, FINE SAND WITH SHELL
				12.5							
			21.0	12.5	21.0			SHELBY TUBE			WASHED AWAY
2		21.0		21.0	23.0	22.5	23.5	UNC	TUBE	0.0	GRAY SANDY CLAY WITH SHELL, VERY SOFT.
			24.0								
3		24.0		23.0	25.0	23.0	25.0	OV	JAR	0.0	BROWN SANDY CLAY WITH SHELL, VERY SOFT.
			25.0								
4		25.0		25.0	27.5	26.5	27.5	UNC	TUBE	0.0	GRAY SANDY CLAY WITH SHELL, VERY SOFT.
			32.1	27.5	30.0						WASHED AWAY
5		32.1		30.0	32.5	32.1	32.5		JAR	0.75	GREEN CLAY WITH SHELL MATERIAL, MEDIUM.
				32.5	35.0						WITH SAND POCKETS
				35.0	40.0						USED FOR ENVIRONMENTAL
											WASHED AWAY
6			42.5	40.0	42.5	41.5	42.5	UNC	TUBE	0.75	WITH SAND POCKETS AND WEATHERED CALCAREOUS GRAVEL, MEDIUM.

WES FORM NO. 819
REV NOV 1971

PREVIOUS EDITION IS OBSOLETE

TOTAL DEPTH 42.5'
1045

Sheet 1 of 1 Sheets

[illegible]

UNCONFINED COMPRESSION TEST

DATE

1564

1-22-77

PROJECT

Colorado River

EXCAVATION NUMBER

76-187

SAMPLE NUMBER

C-4 265 (275)

PROVING RING DIAL NUMBER

PROVING RING NUMBER

CALIBRATION CURVE NUMBER

PROVING RING CONSTANT, K_r

VERTICAL DIAL NUMBER

XXXXXXXXXXXXXXX

RATE OF LOAD APPLICATION

0.040

FORMULAS

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

INITIAL MEASUREMENTS ON SAMPLE

AVERAGE AREA, A_0

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

HEIGHT, L_0 (in.)

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 (in./in.)	CORRECTED AREA, A (sq. ft.)	UNIT STRESS (lb./sq. ft.)
	4		025				
	9		050		1.25	3.03	124
	14		075				
	19		100		2.50	3.06	259
	23		125				
	26		150		3.75	3.11	349
	28		175				
	31		200		5.00	3.15	411
	33		225				
	35		250		6.25	3.19	458
	36		275				
	38		300		7.50	3.23	491
	39		325				
	40		350		8.75	3.28	509
	41		375				
	42		400		10.00	3.32	528
	43		425				
	44		450		11.25	3.37	545
	44		475				
	44		500		12.50	3.42	537
	45		525				
	45		550		13.75	3.47	542

WATER CONTENT (%)

S. W. in Cyl #3 452 33%

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

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

Pen - 0.00 With shell FRAG.

Color - BROWN

Dish - 332

W. W. - 356

D. W. - 268

TECHNICIAN (Signature)

COMPUTED BY (Signature)

CHECKED BY (Signature)



UNCONFINED COMPRESSION TEST

1564

DATE

1-22-77

PROJECT

Colorado River

EXCAVATION NUMBER

76-187

SAMPLE NUMBER

C-6 (425)

PROVING RING DIAL NUMBER

PROVING RING NUMBER

CALIBRATION CURVE NUMBER

PROVING RING CONSTANT, K_p

VERTICAL DIAL NUMBER

XXXXXXXXXXXX

RATE OF LOAD APPLICATION

Cyl # 3

0° 40

FORMULAS

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

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

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

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

INITIAL MEASUREMENTS ON SAMPLE

AVERAGE AREA, A_0

	DIAMETER, D (in.)	CIRCUMFERENCE, C (in.)	AREA (sq. in.)	SQ. IN.	SQ. FT.
TOP					
CENTER				HEIGHT, L_0 (in.)	
BOTTOM					

ELAPSED TIME (min.)	PROVING RING DIAL READING (0.0001 in.)	LOAD, P (lb.) (Ring Dial $\times K_p$, or from calibration curve)	VERTICAL DIAL READING (in.)	VERTICAL DIAL DIFFERENCE, ΔL (in.)	UNIT STRAIN, E (in./in.)	CORRECTED AREA, A (sq. ft.)	UNIT STRESS (lb./sq. ft.)
	13		025		0.63	3.01	180
	31		050				
	51		075		1.87	3.05	628
	64		100				
	66 ✓		125 ✓		3.13	3.09	832
	58		150				
	48		175		4.38	3.13	640
	40		200				
	32		225		5.63	3.17	422
			250				
			275				
			300				
			325				
			350				
			375				
			400				
			425				
			450				
			475				
			500				

WATER CONTENT (%)

3. W. in Cyl # 3 483 18%

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

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

Pen - 1.25
 Color - GRAY
 Dish - 185
 W. W. - 389
 D. W. - 330

Sample Contains Cal. Nods.
 Remolded where larger NODS.
 Removed

TECHNICIAN (Signature)

COMPUTED BY (Signature)

CHECKED BY (Signature)

DD FORM 1213

GPO 931154