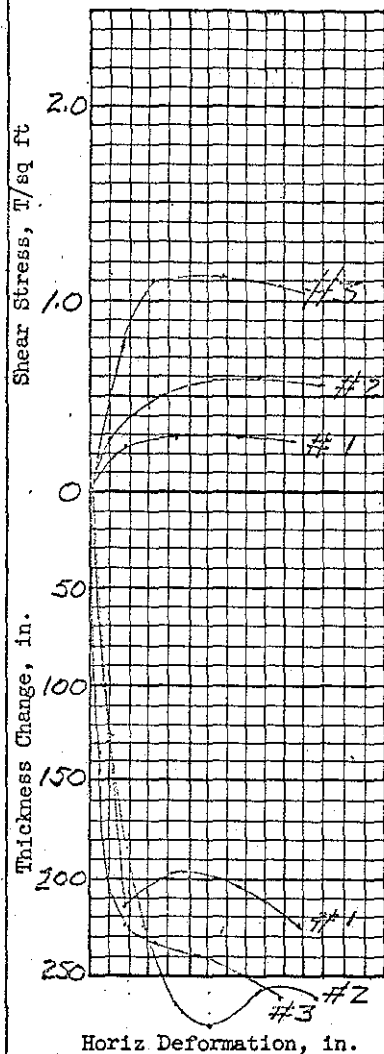


DRILLING LOG		DIVISION Southwestern		INSTALLATION Galv Dist, Eng Div		SHEET OF SHEETS	
1. PROJECT Neches River, Channel to Evadale				10. SIZE AND TYPE OF BIT			
2. LOCATION (Coordinates or Station)				11. DATUM FOR ELEVATION SHOWN (TBM or MSL)			
3. DRILLING AGENCY U. S. Army Corps of Engineers				12. MANUFACTURER'S DESIGNATION OF DRILL			
4. HOLE NO. (As shown on drawing title and file number)		3ST-23		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED 5 Jars	
5. NAME OF DRILLER Curtis				14. TOTAL NUMBER CORE BOXES			
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER			
7. THICKNESS OF OVERBURDEN				16. DATE HOLE		STARTED 3 Mar	
8. DEPTH DRILLED INTO ROCK				17. ELEVATION TOP OF HOLE		COMPLETED 3 Mar 1966	
9. TOTAL DEPTH OF HOLE 30.0				18. TOTAL CORE RECOVERY FOR BORING %			
				19. SIGNATURE OF INSPECTOR			

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV- ERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
0.0	3.0		Bank			
3.0	10.0		Water depth			
10.0	12.0		Gray sand, fine 10.0-10.5 no count 10.5-11.0 5 blows 11.0-11.5 5 blows			Jar 1
12.0	15.0		Same as above, washed			no sample
15.0	17.0		Gray sand, fine 15.0-15.5 no count 15.5-16.0 5 blows 16.0-16.5 9 blows 16.5-17.0 retain sample			Jar 2
17.0	20.0		Same as below			no sample
20.0	22.0		Gray sand 20.0-20.5 no count 20.5-21.0 8 blows 21.0-21.5 13 blows			Jar 3
22.0	26.0		Gray sand, washed sample			Jar 4
26.0	30.0		Gray sand, washed sample			Jar 5
			BOTTOMED			
			Water depth 7.0			



Shear Values

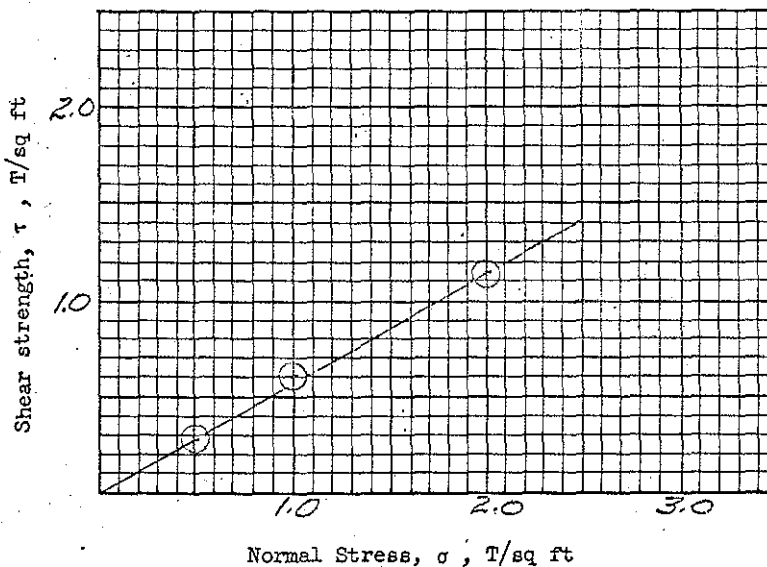
$\phi' = 29.50$
 $\tan \phi' = 0.565$
 $c' = 0.0$

Test Type (Check One)

☐ Controlled, stress

☒ Controlled, strain

Test No.		1	2	3	
Initial	Water content	w_o	%	%	%
	Void ratio	e_o			
	Saturation	S_o	%	%	%
	Dry density lb/cu ft	γ_d	110	109	108
Void ratio after consolidation		e_c			
Time for 50% consolidation, min		t_{50}			
Final	Water content	w_f	%	%	%
	Void ratio	e_f			
	Saturation	S_f	%	%	%
Actual time to failure, min.		t_f	200	420	400
Normal stress T/sq ft		σ	0.5	1.0	2.0
Maximum shear strength, T/sq ft		τ	0.28	0.60	1.13



Type of Specimen Remolded 3 in. Square 0.75 in. Thickness

Classification Gray sand (SP)

LL NP PL PI D₁₀

Remarks composite
sample from
holes 35T-18-20 & 23

Project NECHES RIVER
channel to Euadale
 Area

sample puddled
in shear ring

Boring No. 15-35 Sample No. DATE MAY 1966

DIRECT SHEAR TEST REPORT

28 Jan 1965

PROJECT: Neches River

LOCATION: Channel to Evadale

TEST DATA SUMMARY

BORING NO. 357-23

DATE DRILLED 3 Mar 1966

[illegible]

KEY:	CONSISTENCY -- COHESIVE SOILS						CONSISTENCY -- COHESIONLESS SOILS				
	VS	S	M	ST	VST	H	VL	L	M	D	VD
	Very Soft	Soft	Medium	Stiff	Very Stiff	Hard	Very Loose	Loose	Medium	Dense	Very Dense

(1) Tons/Sq.Ft. Unconfined Compressive Strength
(2) Split Barrel Sampler
(3) Acc. Wt. Rtd $\div$ Init. Wt. $\times$ 100 = % Rtd.

BORING NO. 357-23