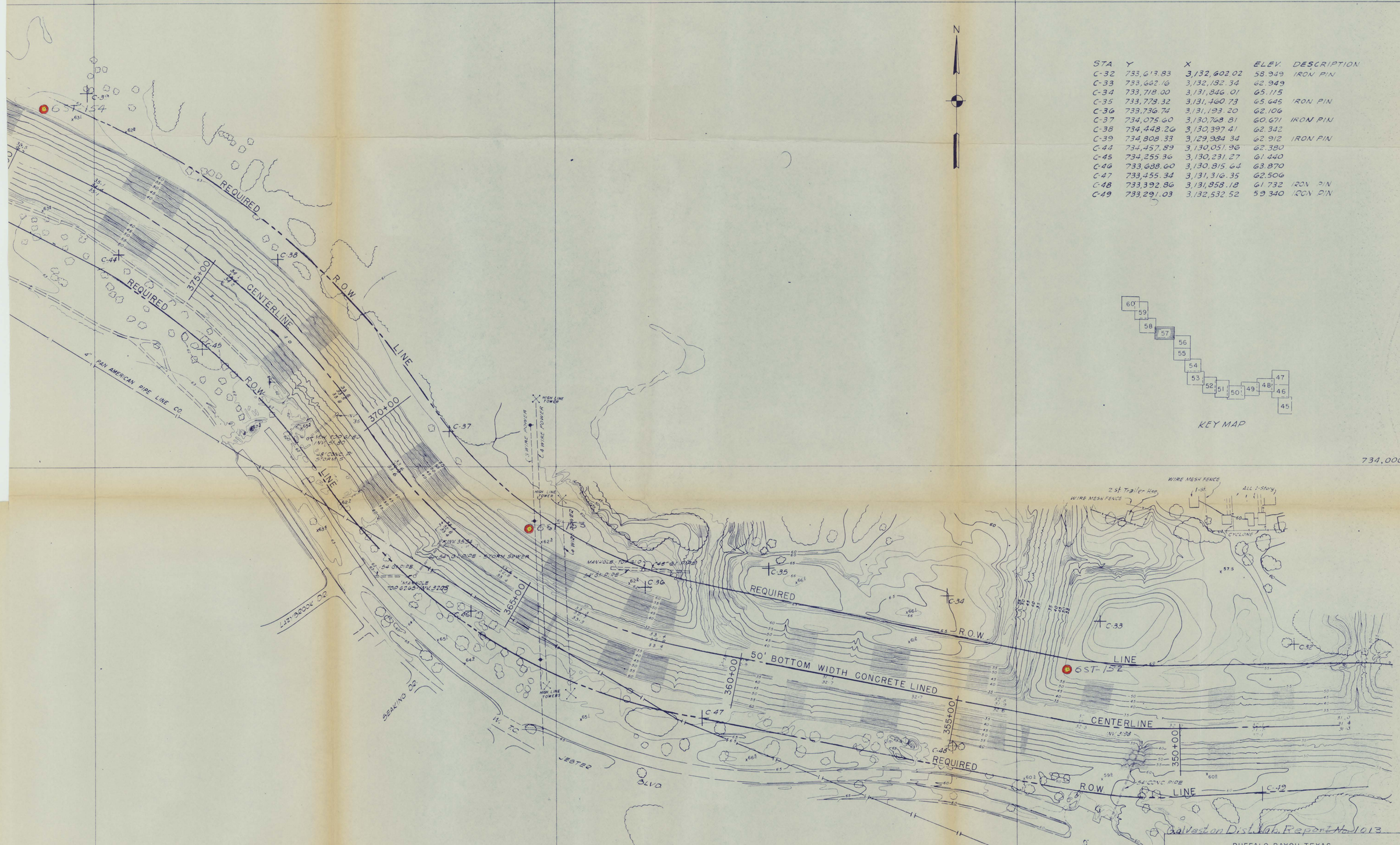
735,000

STA	Y	X	ELEV.	DESCRIPTION
C-32	733,613.83	3,132,602.02	58.949	IRON PIN
C-33	733,662.16	3,132,182.34	62.949	
C-34	733,718.00	3,131,846.01	65.115	
C-35	733,779.32	3,131,460.73	65.645	IRON PIN
C-36	733,736.74	3,131,193.20	62.106	
C-37	734,075.60	3,130,768.81	60.671	IRON PIN
C-38	734,448.26	3,130,397.41	62.342	
C-39	734,808.33	3,129,984.34	62.912	IRON PIN
C-44	734,457.89	3,130,051.96	62.380	
C-45	734,255.36	3,130,231.27	61.440	
C-46	733,688.60	3,130,815.64	63.870	
C-47	733,455.34	3,131,316.35	62.506	
C-48	733,392.86	3,131,858.18	61.732	IRON PIN
C-49	733,291.03	3,132,532.52	59.340	IRON PIN



Galveston Dist. Job Report No. 1013

BUFFALO BAYOU, TEXAS

WHITE OAK BAYOU PROPOSED ALIGNMENT

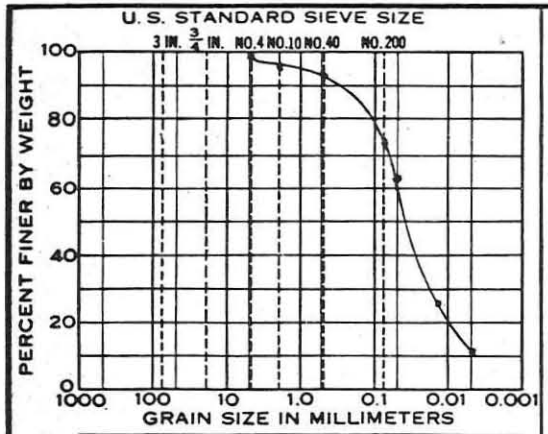
100 0 100'

U.S. ARMY ENGINEER DISTRICT, GALVESTON, TEXAS APRIL 1963

TO ACCOMPANY GENERAL DESIGN MEMORANDUM NO.1 BUFFALO AND WHITE OAK BAYOUS AND WHITE OAK BAYOU FEATURE DESIGN MEMORANDUM NO.2, MILE 1.07 TO YALE STREET DATED: APRIL 1963

FILE: HSC 402-133

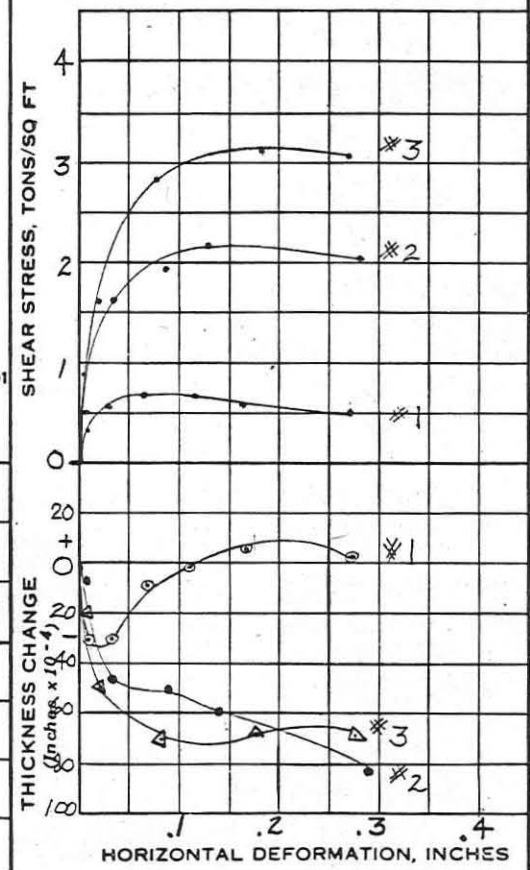
Sheet 2 of 7 PLATE 57

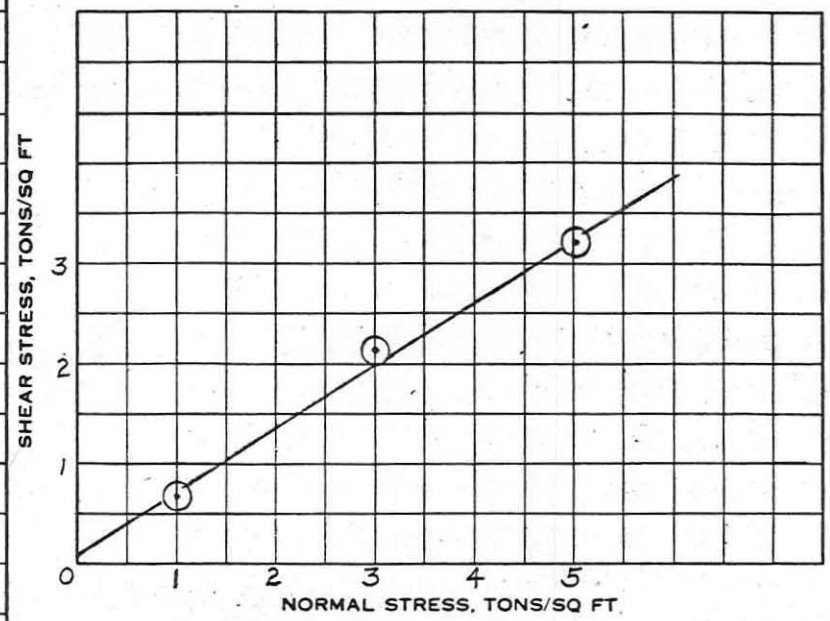


Classification: Red-Gray sandy silt (ML)

LL L.S. = 0	G
PL	D_{10}

Test No.	1	2	3
Initial Water Content, W_0 %	23	23	23
Dry Density Lbs/Cu Ft	101.3	98.5	101.1
Void Ratio, e_0			
Saturation, S_0 %			
Duration of Test (min)	140	190	275
WC after Test, W_F %	23.4	23	21.7
Normal Stress, σ T/Sq Ft	1	3	5
Max. Shear Stress, τ T/Sq Ft	.66	2.15	3.20





Remarks:

Type of Test	Type of Specimen
Strain - Control Rate .001 in/min.	undisturbed
✓ Consolidated	3 in. square
Drained	.75 in. thickness

SHEAR VALUES	Ø	TAN Ø	C, T/SQ FT
Maximum	32.4°	.635	.10
Ultimate			

Project: WHITE OAK

Area:

Boring No. 6ST-154 | Sample No. 64-5935

Elev or Depth 20° - 22° | Date July 64

DIRECT SHEAR TEST REPORT

Plate No. 1 DLP 1013

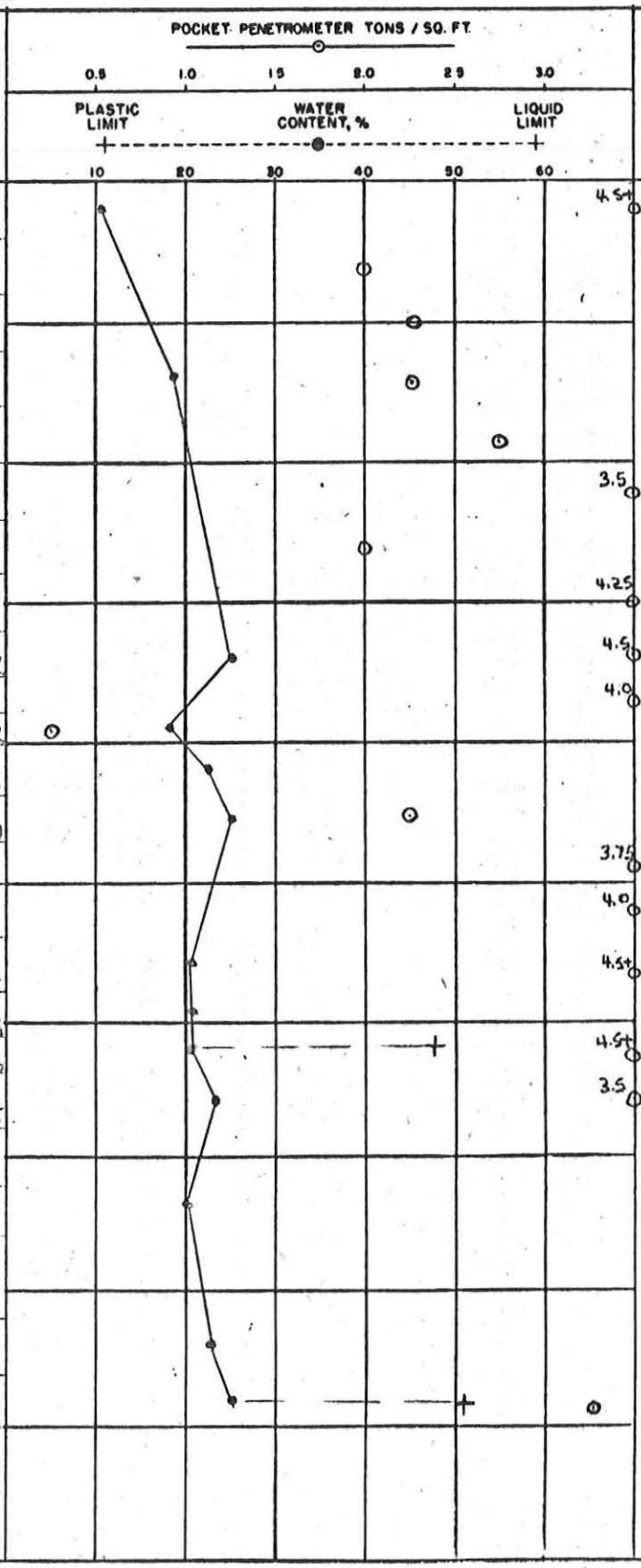
ENG FORM 1 FEB 58 2092 (TRANSLUCENT) (EM 1110-2-1803)

White Oak BAYOU LOG OF BORING NO. 6ST-154

TYPE: 6 in. Shelby LOCATION:

SURF. EL:

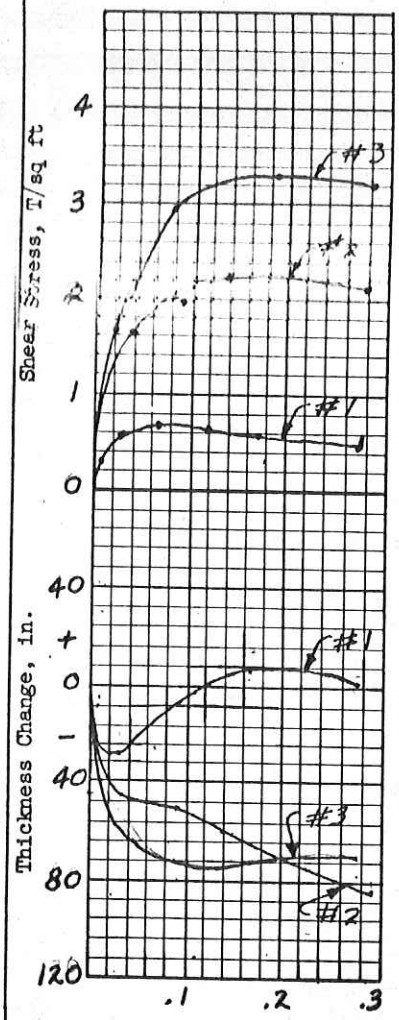
DEPTH FT.	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL	BLOWS PER FT.	UNIT DRY WT. LBS./CU.FT.
	CL		Gray & tan clay		
			L.S.:8.0 0-16-84		116
			V/stiff-hard		
5			Sandy from 0.0-10.0'		
			L.S.:8.0 2-16-82		111
10			Calcareous Nodules from 0'-2' & 6'-19'		
15			L.S.:3.0 1-1-98		102
20			L.S.:5.0 0-11-89		102
	ML		Red silt		
			L.S.:0.0 0-4-96		103
	CL		Red-Gray clay		
			L.S.:5.0 0-0-100		100
25			V/stiff-hard		
			Sandstone Layers from 23'-25'		
			L.S.:12.0 0-0-100		104
30	ML		Red silt, w/sandstone Nod		
			L.S.:0.0 2-10-88		103
	CL		Red Clay, hard-v/stiff		
			L.S.:14.0 1-3-96		106
			w/sandstone Layers		
			L.S.:12.0 0-0-100		105
35			No recovery D.C. Believed to be Red silt w/thin clay layers		
	SM		Red silty sand		
			L.S.:0.0 6-55-39	27	
40			Sandstone Nodules Dense		
	ML		Red sandy silt medium		
			L.S.:0.0 0-15-75	16	
	CH		Red clay, v/stiff		
45			L.S.:14.0 0-0-100		101
50					

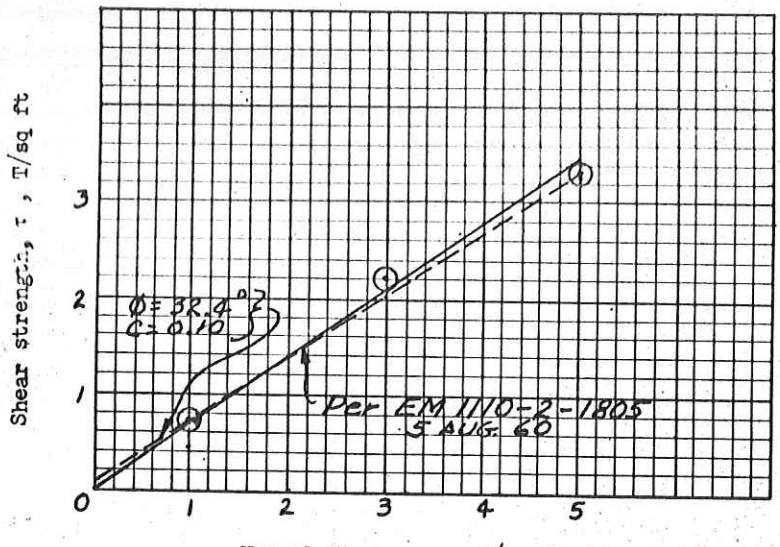


COMPLETION DEPTH 45.0 Ft.
DATE 12 June 1964

DEPTH TO WATER IN BORING 30.0 ft.
DATE

SWN 266(C)
22 AUG 62





Test No.			1	2	3	
Initial	Water content	w_o	23 %	23 %	23 %	%
	Void ratio	e_o				
	Saturation	S_o	%	%	%	%
	Dry density lb/cu ft	γ_d	101.3	98.5	101.1	
Void ratio after consolidation		e_c				
Time for 50% consolidation, min		t_{50}				
Final	Water content	w_f	23.4%	23 %	21.7%	%
	Void ratio	e_f				
	Saturation	S_f	%	%	%	%
Actual time to failure, min.		t_f	140	190	275	
Normal stress T/sq ft		σ	1	3	5	
Maximum shear strength, T/sq ft		τ	.66	2.15	3.20	

Shear Values

ϕ' = 34.6°

tan ϕ' = 0.690

c' = 0.0

Test Type (Check One) ☐ Controlled, stress ☑ Controlled, strain

Type of Specimen *undisturbed* 3 in. Square .75 in. Thickness

Classification *Red-Gray Sandy SiH (ML)*

LL PL PI D_{10} *L.5 = 0*

Remarks *RATE OF STRAIN .001 IN/min.*

Project WHITE OAK

Area

Boring No. *65T-154* Sample No. *64-5935*

Depth El *20' - 22'* Date *July 64*

DIRECT SHEAR TEST REPORT

ENG FORM 1 MAY 63 2092 PREVIOUS EDITIONS ARE OBSOLETE. (TRANSLUCENT) C 3437

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PLATE 28

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