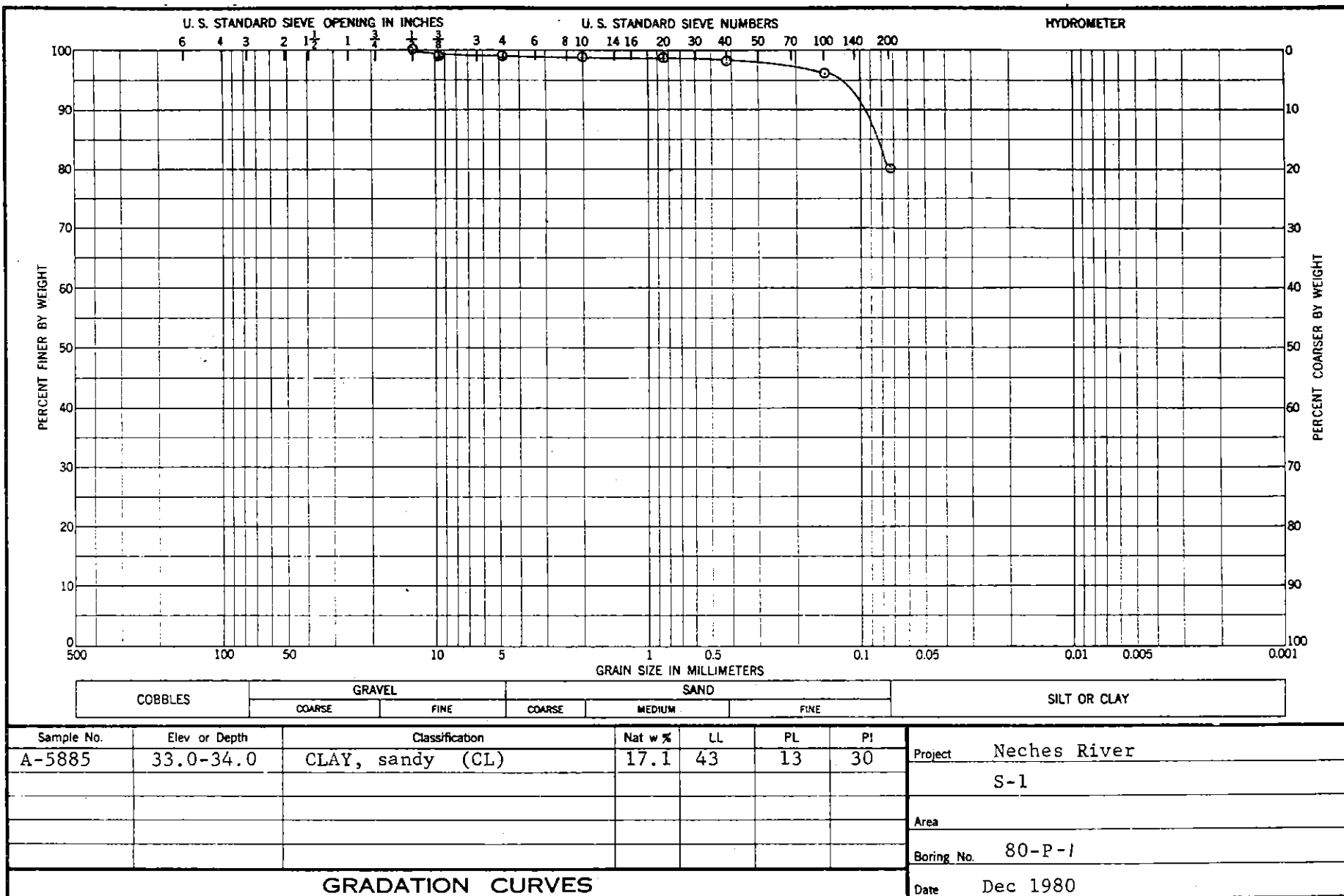


DRILLING LOG		DIVISION		INSTALLATION		Hole No.	
						SHEET 2 OF 2 SHEETS	
1. PROJECT <i>Naches Pk. Salt Water Barrier</i>				10. SIZE AND TYPE OF BIT			
2. LOCATION (Coordinates or Station) <i>St. Location 79-91 30' South</i>				11. DATUM FOR ELEVATION SHOWN (TBM or MSL)			
3. DRILLING AGENCY <i>U.S. CEC</i>				12. MANUFACTURER'S DESIGNATION OF DRILL			
4. HOLE NO. (As shown on drawing title and file number) <i>80-P1</i>				13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN		DISTURBED UNDISTURBED	
5. NAME OF DRILLER <i>Black</i>				14. TOTAL NUMBER CORE BOXES			
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.				15. ELEVATION GROUND WATER		16. DATE HOLE	
7. THICKNESS OF OVERBURDEN				17. ELEVATION TOP OF HOLE		STARTED COMPLETED	
8. DEPTH DRILLED INTO ROCK				18. TOTAL CORE RECOVERY FOR BORING		%	
9. TOTAL DEPTH OF HOLE				19. SIGNATURE OF INSPECTOR			

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	60.0		Fishtail 59.5 to 63.0 Same as above	59.5		
			63.0 to 64.5 GR. TAN SA. (2 CCH) w/ SA Pocket & seams STIFF	63.0		
	65.0		63.0 to 64.5 is a TRANSITIONAL CHANGE FROM GR. TAN CLAY (CA) TO GR. SA. SA.	7-C 64.5	1.50	Pushed 6" at 63.0 to 64.5 Sample 11 1/4" Long Note: Care should Be Exercised when Opening this sample
			64.5 to 72.0 GR. SA (SA)	64.5 8-J 72.0		Bottom of Hole @ 72.0

RESULTS OF TESTS OF FOUNDATION MATERIALTable 1-

<u>Boring No.</u>	<u>Field No.</u>	<u>SWD No.</u>	<u>Depth ft.</u>	<u>Mechanical Analysis</u>			<u>Atterberg Limits</u>			<u>Water Content %</u>	<u>Dry Density lb/cu ft</u>	<u>Test</u>		<u>Description</u>
				<u>Gr</u>	<u>Sp</u>	<u>Fa</u>	<u>LL</u>	<u>PL</u>	<u>PI</u>			<u>Type</u>	<u>Plate</u>	
80-P-1	S-1	A-5885	33.0- 34.0	1	19	80	43	13	30	17.1	116	Consol	3-6 CL	Yellow and light gray sandy CLAY, moist, hard
80-P-1	S-5	A-5886	53.5- 54.5	0	9	91	70	21	49	35.9	85	Consol	7-10 CH	Gray and red CLAY, moist, very stiff



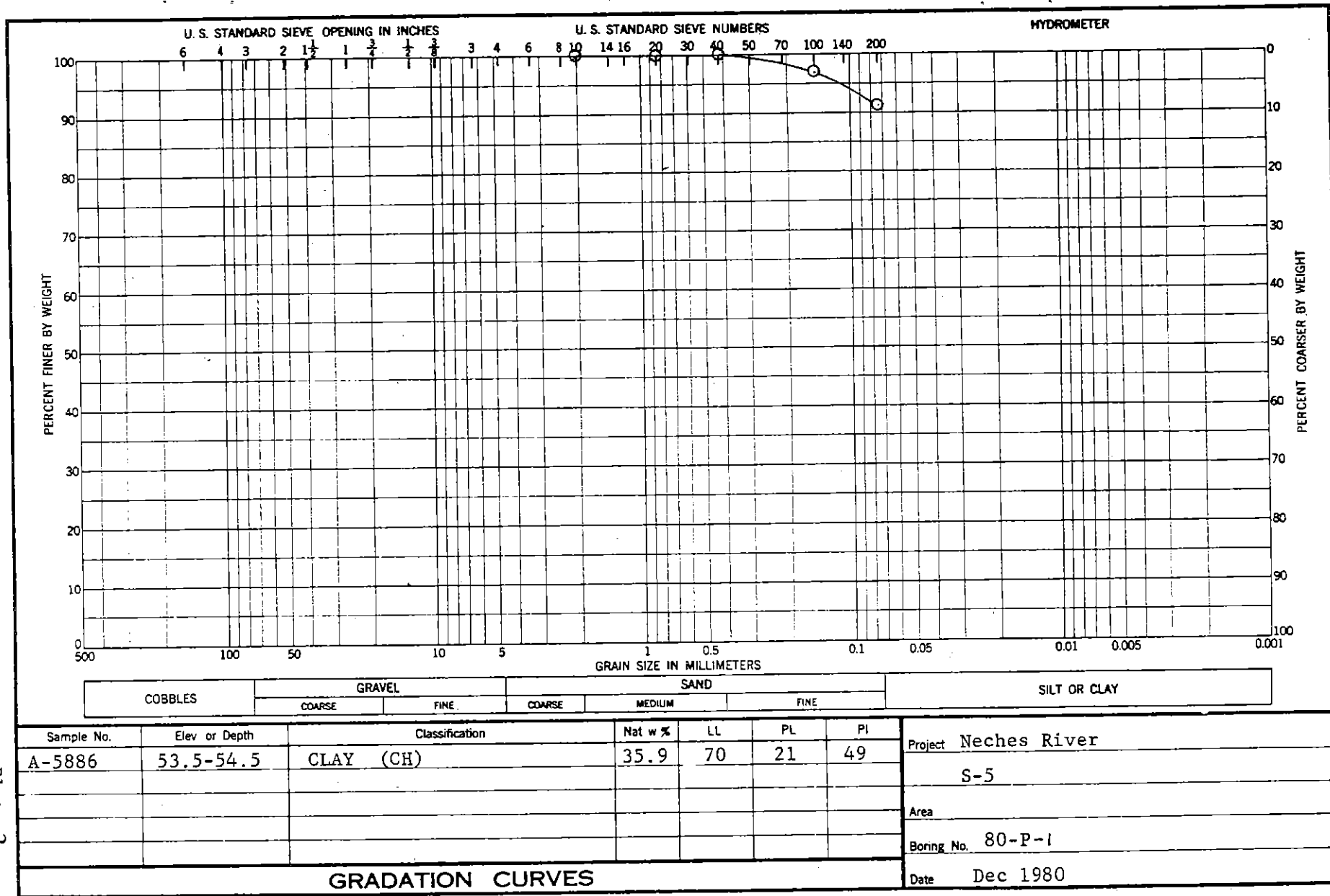
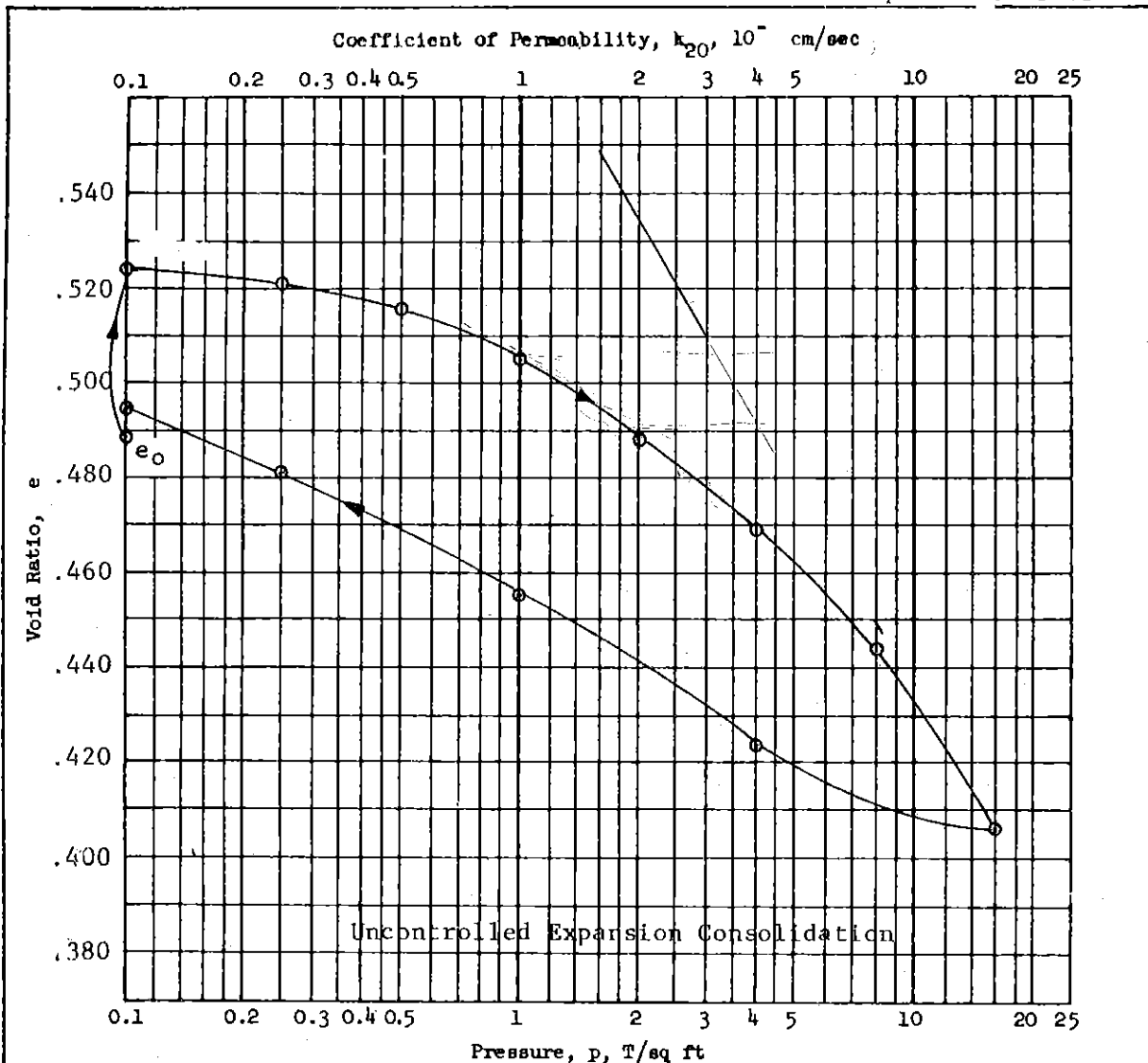
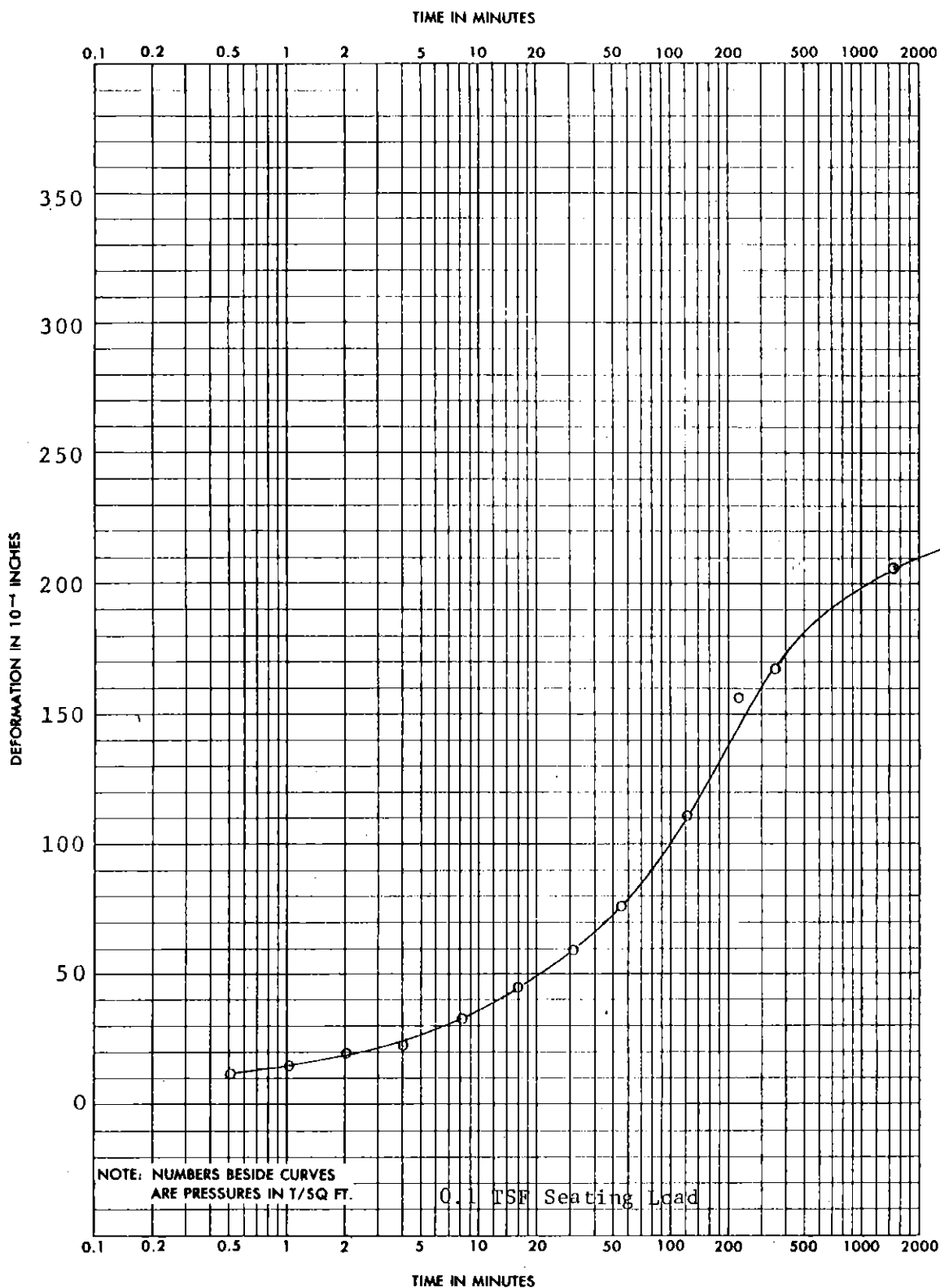


Plate 2



Type of Specimen		Undisturbed		Before Test		After Test	
Diam	4.44 in.	Ht	.88 in.	Water Content, w_o	17.6 %	w_f	18.7 %
Overburden Pressure, p_o		T/sq ft		Void Ratio, e_o	.488	e_f	.494
Preconsol. Pressure, p_c		T/sq ft		Saturation, S_o	97 %	S_f	101 %
Compression Index, C_c 0.15				Dry Density, γ_d	113.5 lb/ft ³		
Classification CLAY, sandy (CL)				k_{20} at $e_o =$ $\times 10^{-7}$ cm/sec			
LL	43	G_s	2.69	Project Neches River			
PL	13	D_{10}		S-1			
Remarks				Area			
				Boring No. 80-P-1		Sample No. A-5885	
				Depth El 33.0-34.0		Date Dec 1980	
				CONSOLIDATION TEST REPORT			



PROJECT Neches River

AREA S-1

BORING NO. 80-P-1

SAMPLE NO. A-5885

DEPTH
EL 33.0-34.0

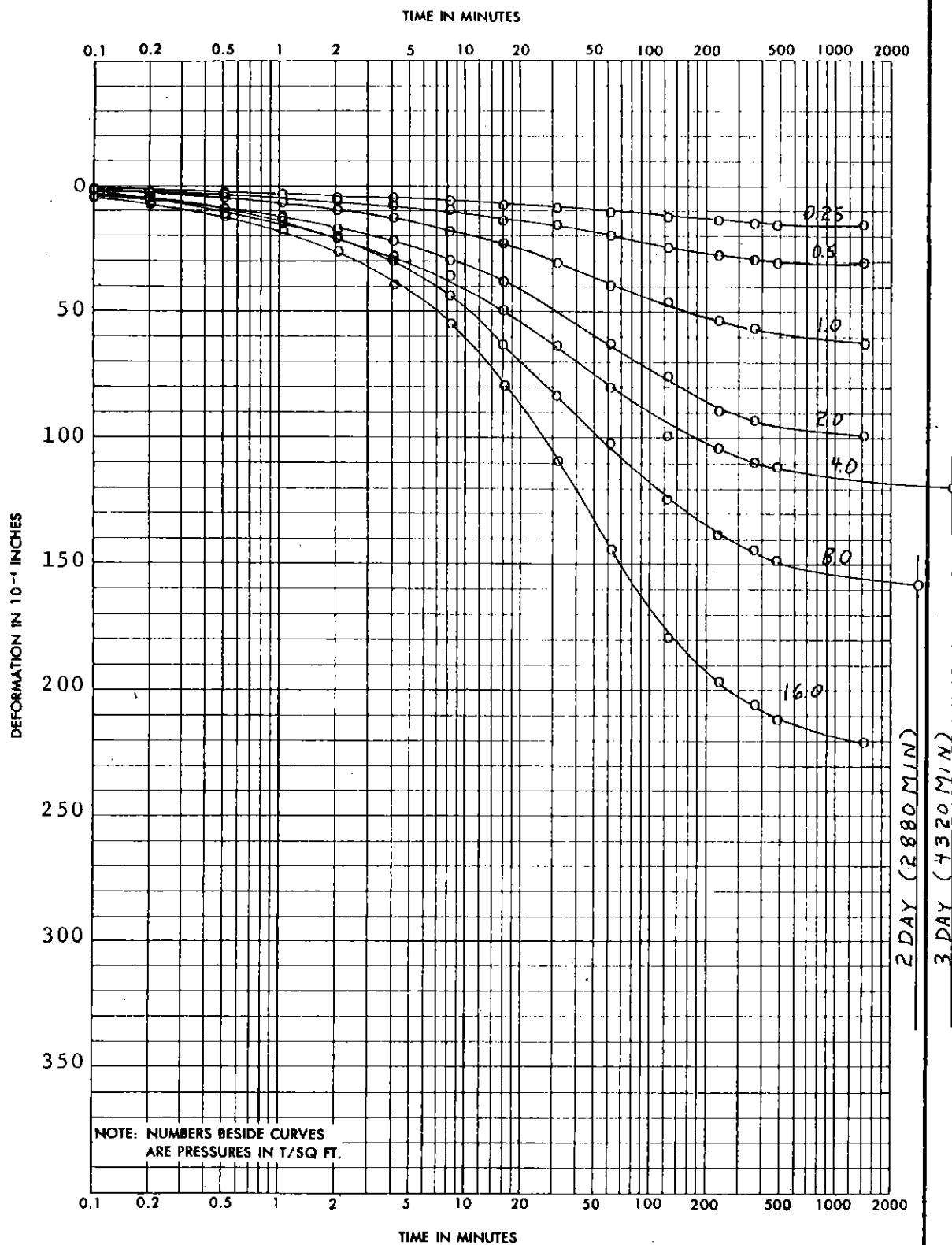
DATE Dec 1980

ENG FORM 2088
1 MAY 63

PREVIOUS EDITIONS
ARE OBSOLETE.

CONSOLIDATION TEST—TIME CURVES

(TRANSLUCENT)



PROJECT Neches River

AREA S-1

BORING NO. 80-P-1

SAMPLE NO. A-5885

DEPTH
EL 33.0-34.0

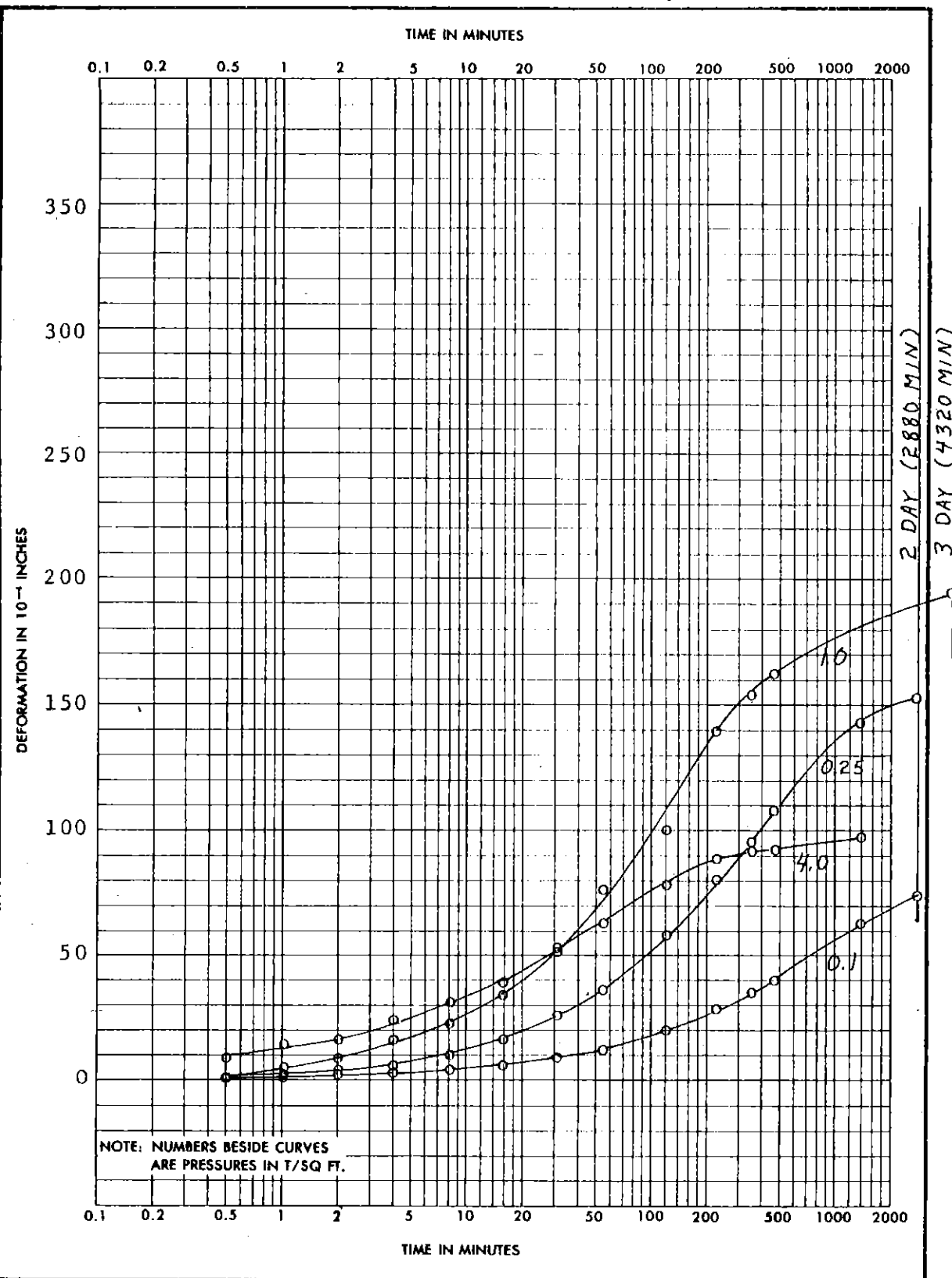
DATE Dec 1980

ENG FORM 2088
1 MAY 63

PREVIOUS EDITIONS
ARE OBSOLETE.

CONSOLIDATION TEST—TIME CURVES

(TRANSLUCENT)



PROJECT Neches River

AREA S-1

BORING NO. 80-P-1

SAMPLE NO. A-5885

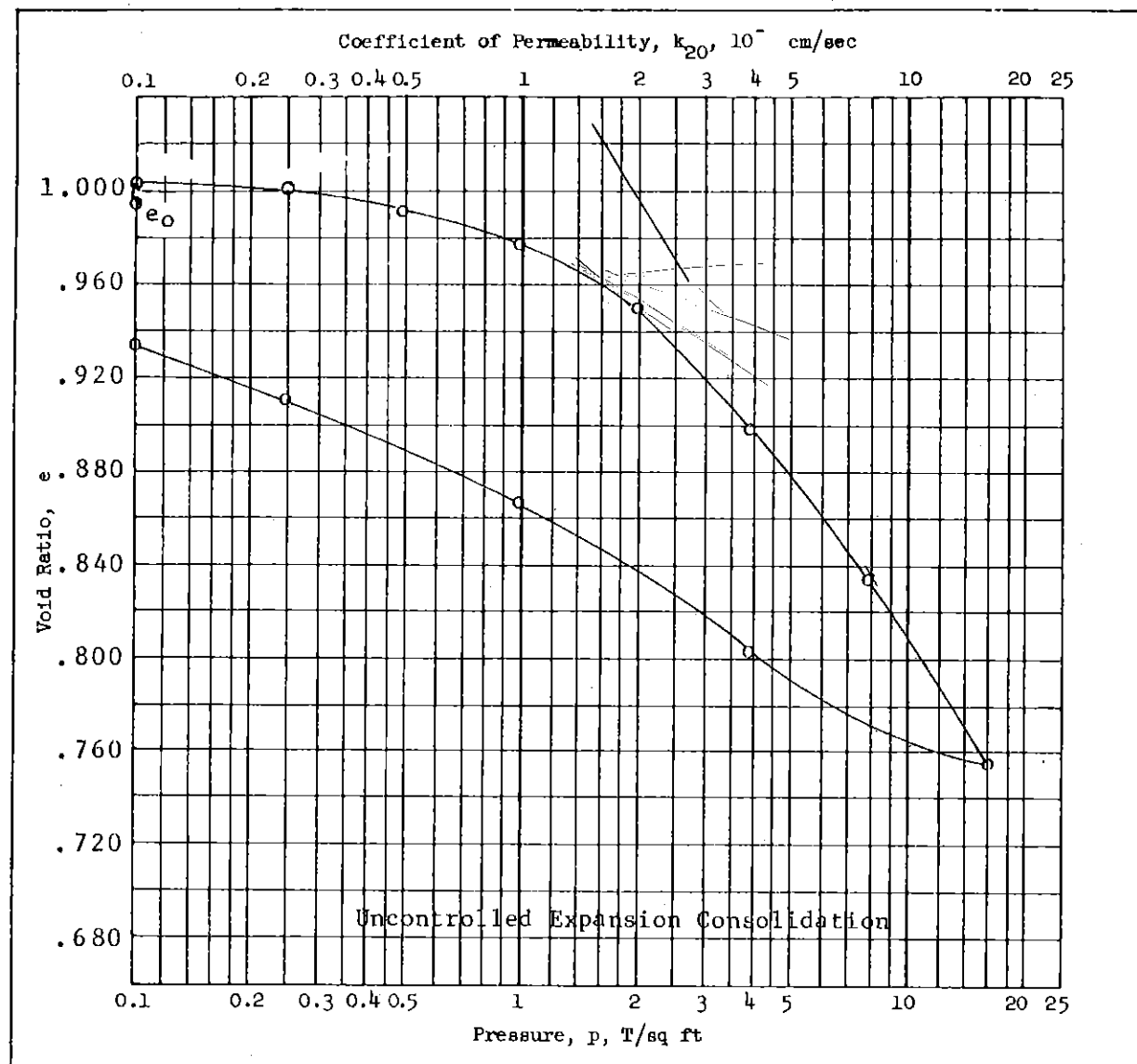
DEPTH
EL 33.0-34.0

DATE Dec 1980

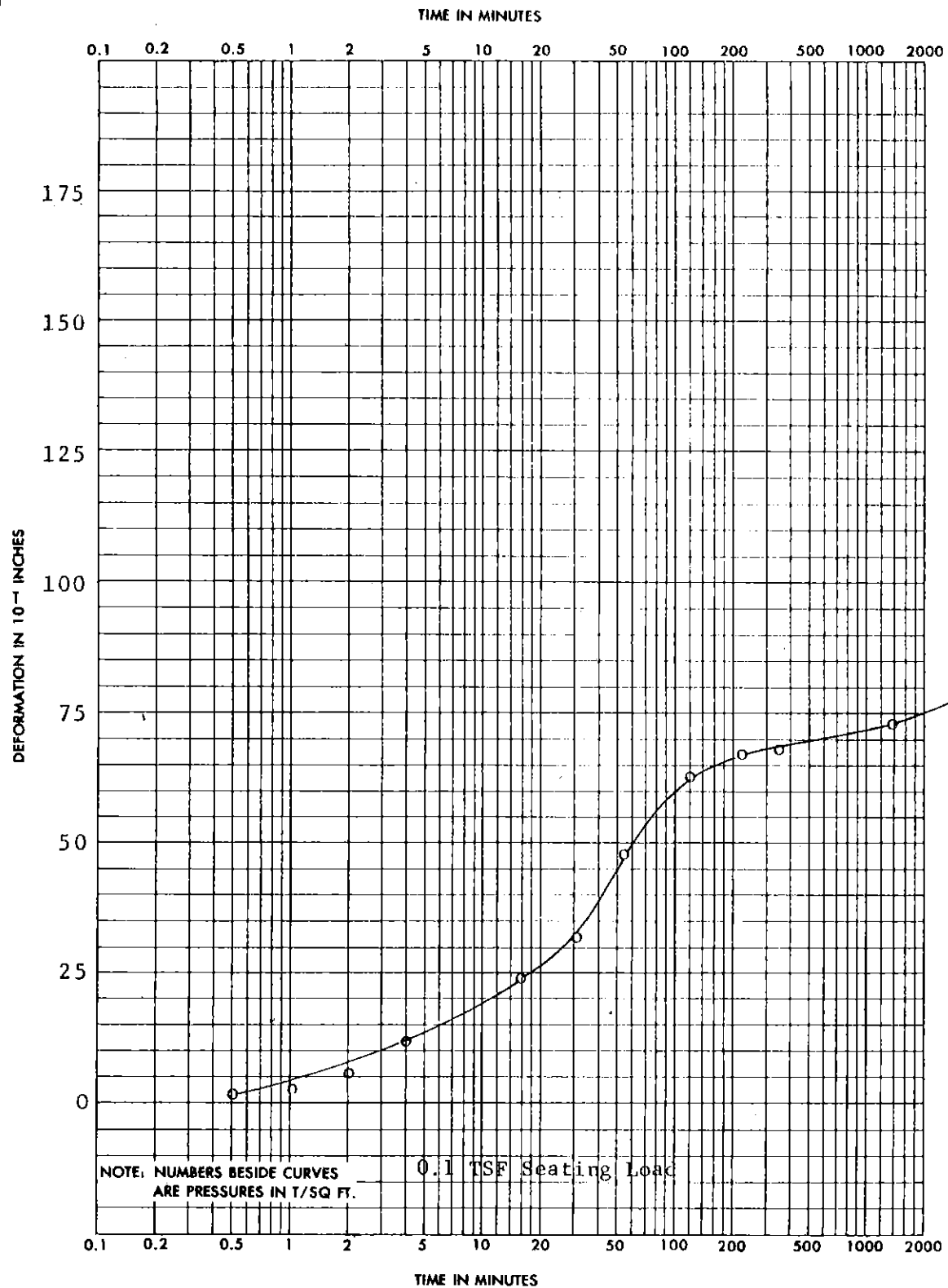
ENG FORM 2088
1 MAY 63PREVIOUS EDITIONS
ARE OBSOLETE.

CONSOLIDATION TEST—TIME CURVES

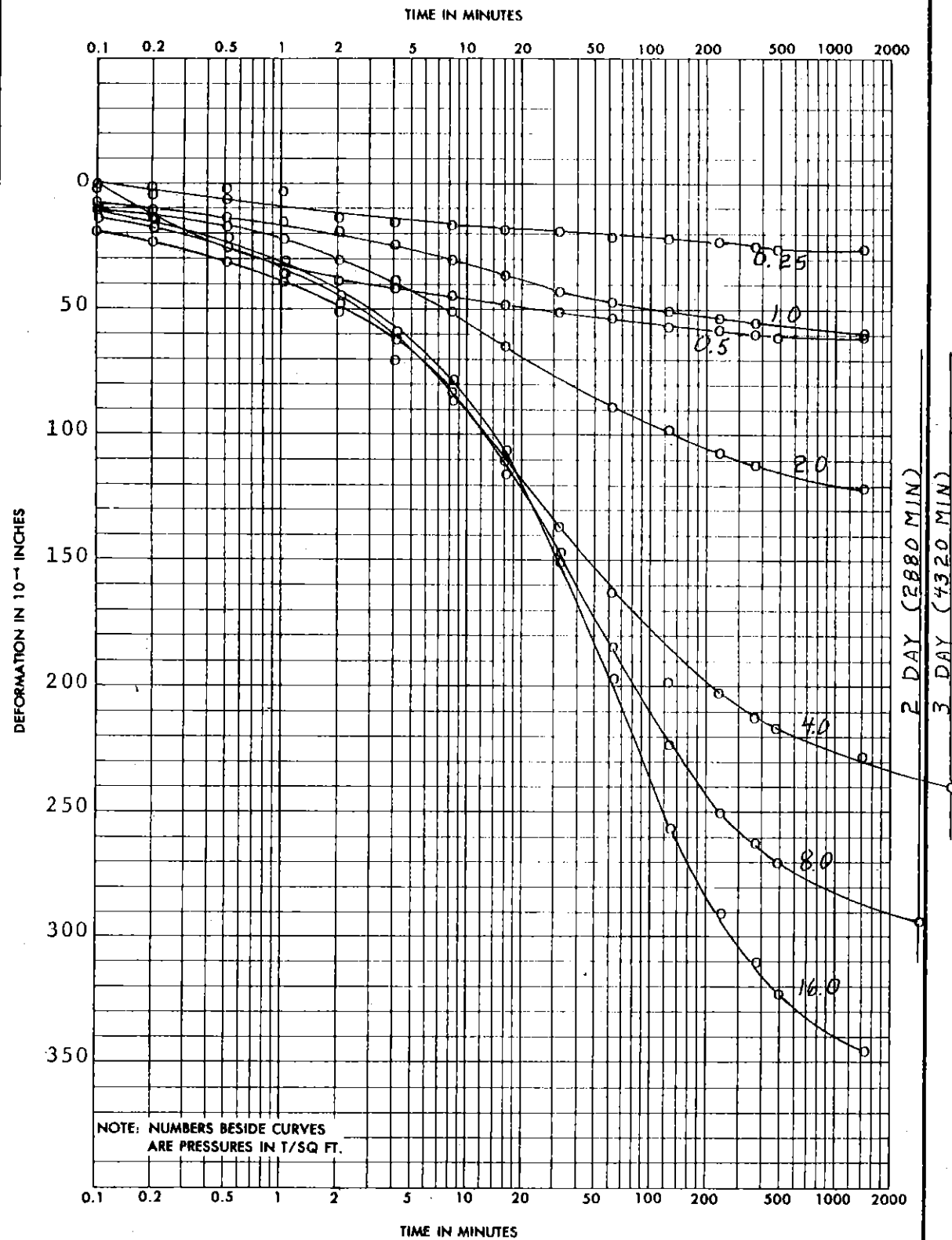
(TRANSLUCENT)



Type of Specimen Undisturbed		Before Test		After Test	
Diam 4.44 in.	Ht .88 in.	Water Content, w_o	34.9 %	w_f	34.2 %
Overburden Pressure, p_o T/sq ft		Void Ratio, e_o	.994	e_f	.930
Preconsol. Pressure, p_c T/sq ft		Saturation, S_o	96 %	S_f	101 %
Compression Index, C_c 0.27		Dry Density, γ_d	86.0 lb/ft ³		
Classification CLAY (CH)		k_{20} at $e_o =$ $\times 10^{-7}$ cm/sec			
LL 70	G_s 2.75	Project Neches River			
PL 21	D_{10}	S-5			
Remarks		Area			
		Boring No. 80-P-1		Sample No. A-5886	
		Depth 53.5-54.5		Date Dec 1980	
		CONSOLIDATION TEST REPORT			



PROJECT Neches River			
AREA S-5			
BORING NO. 80-P-1	SAMPLE NO. A-5886	DEPTH EL 53.5-54.5	DATE Dec 1980
ENG FORM 2088 1 MAY 63		PREVIOUS EDITIONS ARE OBSOLETE. CONSOLIDATION TEST—TIME CURVES (TRANSLUCENT)	



PROJECT Neches River

AREA S-5

BORING NO. 80-P-1

SAMPLE NO. A-5886

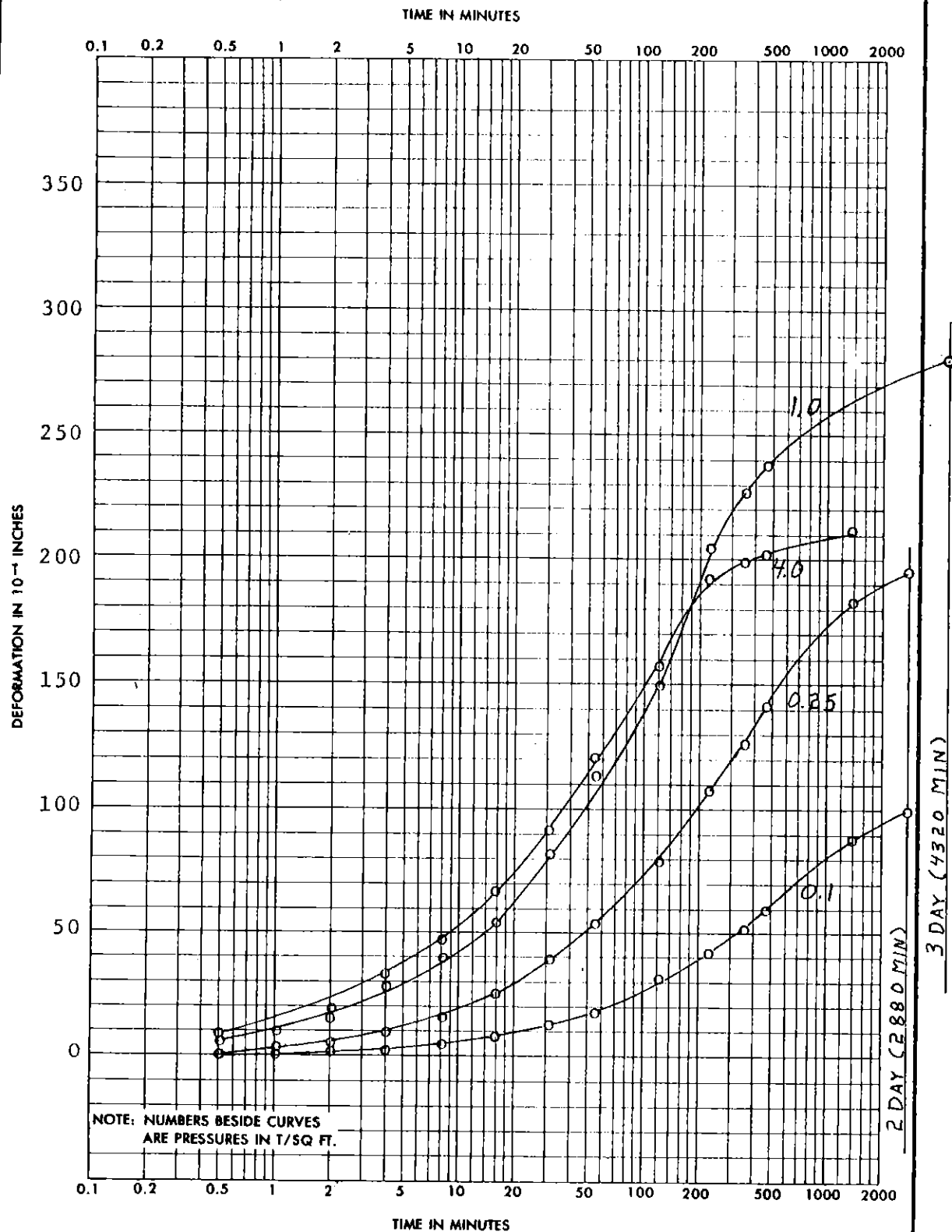
DEPTH
EL 53.5-54.5

DATE Dec 1980

ENG FORM 2088
1 MAY 63PREVIOUS EDITIONS
ARE OBSOLETE.

CONSOLIDATION TEST—TIME CURVES

(TRANSLUCENT)



PROJECT Neches River			
AREA S-5			
BORING NO. 80-P-1	SAMPLE NO. A-5886	DEPTH EL 53.5-54.5	DATE Dec 1980
ENG FORM 2088 1 MAY 63		PREVIOUS EDITIONS ARE OBSOLETE.	
CONSOLIDATION TEST—TIME CURVES (TRANSLUCENT)			

FAILURE SKETCHES

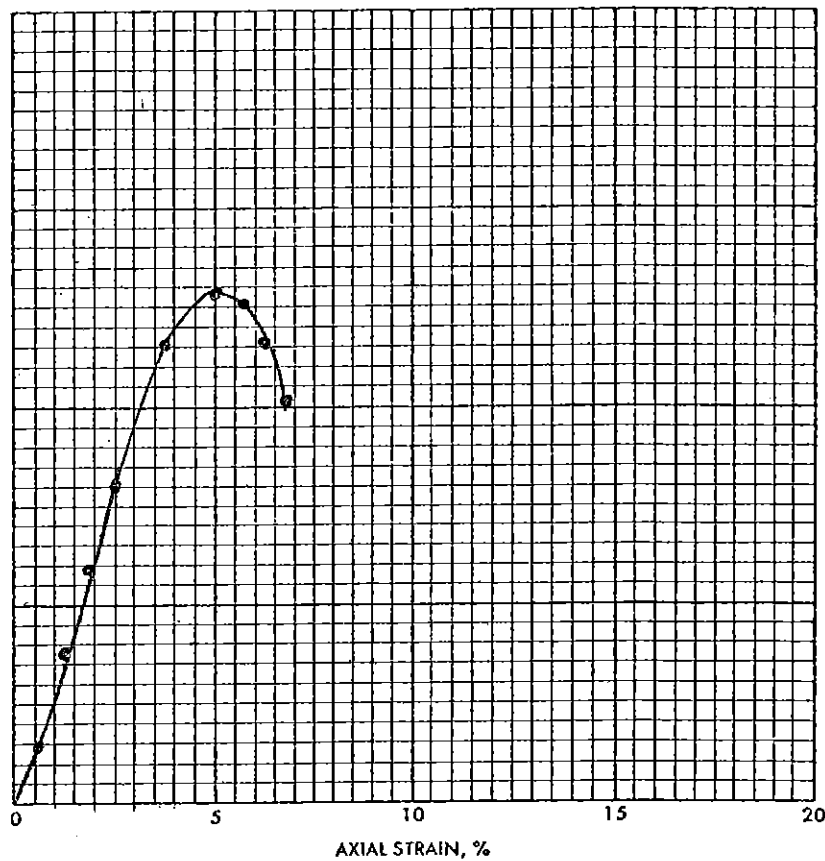
4000

3000

2000

1000

COMPRESSIVE STRESS, T/SQ FT



AXIAL STRAIN, %

☐ CONTROLLED STRESS

☐ CONTROLLED STRAIN

TEST NO.

TYPE OF SPECIMEN

INITIAL	WATER CONTENT	w_o	%	%	%	%
	VOID RATIO	e_o				
	SATURATION	S_o	%	%	%	%
	DRY DENSITY, LB/CU FT	γ_d				
TIME TO FAILURE, MIN		t_f				
UNCONFINED COMPRESSIVE STRENGTH, T/SQ FT		q_u				
UNDRAINED SHEAR STRENGTH, T/SQ FT		s_u				
SENSITIVITY RATIO		S_t				
INITIAL SPECIMEN DIAMETER, IN		D_o				
INITIAL SPECIMEN HEIGHT, IN.		H_o				

CLASSIFICATION

LL	PL	PI	G.
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REMARKS

• 80-PI, S-2, 38.0-39.0

PROJECT

NECHES RIVER

AREA

BORING NO.

SAMPLE NO.

DEPTH
EL

DATE

UNCONFINED COMPRESSION TEST REPORT

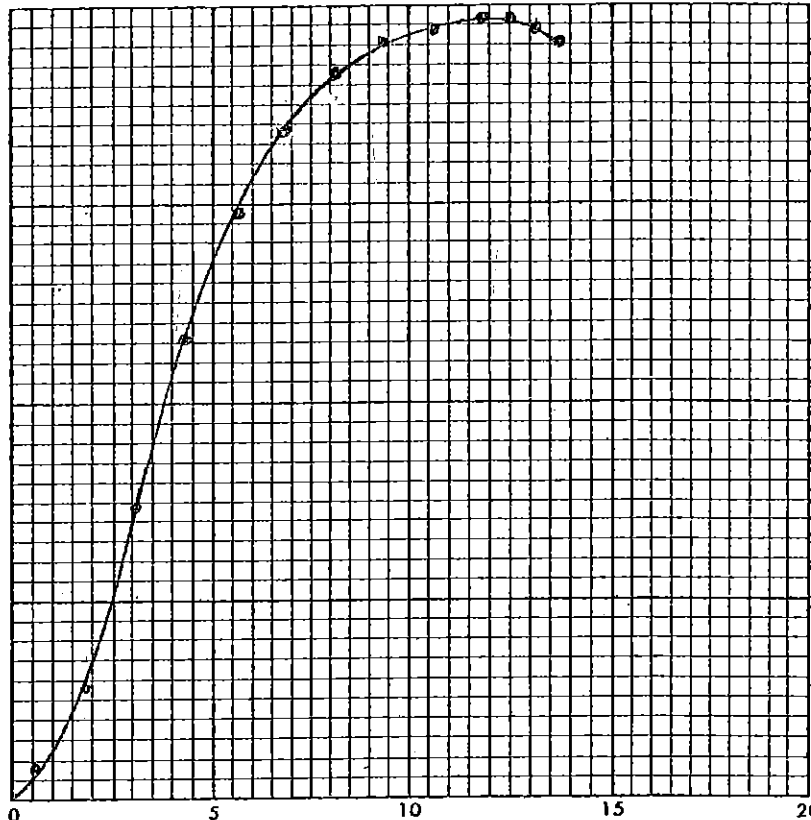
FAILURE SKETCHES 6000

4500

3000

1500

COMPRESSIVE STRESS, T/SQ FT



AXIAL STRAIN, %

☐ CONTROLLED STRESS

☐ CONTROLLED STRAIN

TEST NO.

TYPE OF SPECIMEN

INITIAL	WATER CONTENT	w_o	%	%	%	%
	VOID RATIO	e_o				
	SATURATION	S_o	%	%	%	%
	DRY DENSITY, LB/CU FT	γ_d				

TIME TO FAILURE, MIN

UNCONFINED COMPRESSIVE STRENGTH, T/SQ FT

UNDRAINED SHEAR STRENGTH, T/SQ FT

SENSITIVITY RATIO

INITIAL SPECIMEN DIAMETER, IN

INITIAL SPECIMEN HEIGHT, IN.

CLASSIFICATION

LL PL PI G_s

REMARKS

• 80-PI, S-6, 58.5-59.5

PROJECT *NECHES RIVER*

AREA

BORING NO.

SAMPLE NO.

DEPTH
EL

DATE

UNCONFINED COMPRESSION TEST REPORT