Water Boring East Boring wall

AVILES ENGINEERING CORP.
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SUMMARY OF LABORATORY TEST DATA

PROJECT: [redacted] and Colorado River Locks

BORING NUMBER	DEPTH IN FEET	MOISTURE, %	DRY DENSITY, PCF	COMPRES-SION, TSF	STRAIN, %	TYPE FAILURE	LAT. PRESSURE	LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	SIEVE (NO. 200)	CONSOLI-DATION	SWELL, %
87-216													
1J	20'-22'	12.8						NP	NP		21.9		
2J	26'-28'	20.4											
3J	28'-30'	24.8									31.6		
4C	30'-32'	34.4											
5C	32'-34'	35.6	90.0	1.26	4.33	Bulge		76	32	44	99.3		
6C	34'-36'	25.5											
7J	36'-38'	20.5						34	16	18	57.8		
8C	40'-42'	26.6	98.8					53	23	30	56.5		
9C	42'-44'	25.7											
10C	44'-46'	22.9	105.8	1.88	4.33	45° S		52	20	32	79.1		
11C	46'-48'	18.3											
12C	48'-50'	19.6	111.6	1.20	7.00	Bulge		26	16	10	50.9		
13C	50'-52'	21.3											

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PROJECT ~~Brazos River Floodgates and~~ Colorado River Locks, Gulf Intracoastal Waterway

BORING 87-216

DATE 01-14-88 TYPE 3" Core - Hayhew 200 LOCATION See Plan

DEPTH IN FEET	SYMBOL	CORES	DESCRIPTION	BLOWS / FOOT	M.C., %	U.D.W., PCF	SHEAR STRENGTH, TSF (O – POCKET PENETROMETER; X – LABORATORY CONFINED; ● – LABORATORY UNCONFINED; 0.5 1.0 1.5 2.0 2.5)	LIQUID LIMIT	PLASTIC LIMIT
0			Water						
5									
10									
15									
20			Crushed Shell w/Clay Binding		13			NP	NP
25			Tan Fine Sand (SM) - w/Shell Fragments		20				
			Reddish Brown Clay - Very Stiff (CH)	27	25				
30			- w/Silt Pockets 30'-34'		34				
					36	90		76	32
			Gray & Tan w/Sand Pockets 34'-36'		26				
35			Reddish Brown Sandy Clay (CL)	28	21			34	16
40			Reddish Brown Clay - Stiff to Very Stiff (CH)		27	99		53	23
			- w/Shell Fragments 40'-44'		26				
			Gray w/Sand Pockets 42'-48'		23	106		52	20
45					18				
			Gray & Tan Snady Clay (CL)		20	112		26	16
50									

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PROJECT Brazos River Floodgates and Colorado River Locks, Gulf Intracoastal Waterway

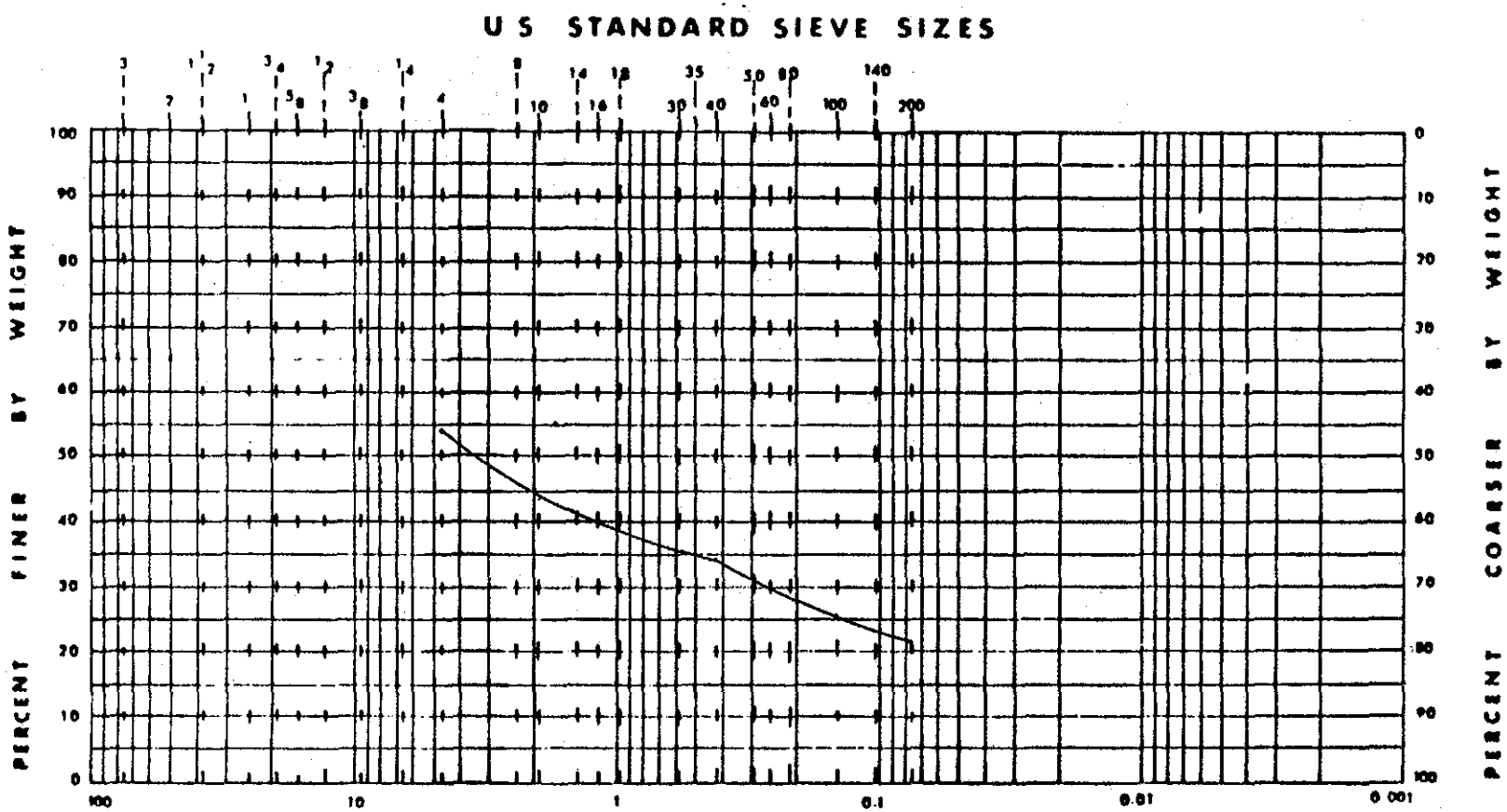
BORING 87-216

DATE 01-14-88 TYPE 3" Core - Mayhew 200 LOCATION See Plan

DEPTH IN FEET	SYMBOL	CORES	DESCRIPTION	BLOWS / FOOT	M.C., %	U.D.W., PCF	SHEAR STRENGTH, TSF (O – POCKET PENETROMETER; X – LABORATORY CONFINED; ● – LABORATORY UNCONFINED; 0.5 1.0 1.5 2.0 2.5)	LIQUID LIMIT	PLASTIC LIMIT
50			Gray & Tan Sandy Clay to Clayey Sand (CL) (SC)		21		O		
			Bottom @ 52'						
55									
10									
15									
20									
25									
30									
35									
40									
45									
50									

Brazos River Floodgates & Colorado River Locks

Boring No. 87-216 Sample 1J
Depth 20'-22'



GRAVEL		SAND			SILT OR CLAY
COARSE	FINE	COARSE	MEDIUM	FINE	

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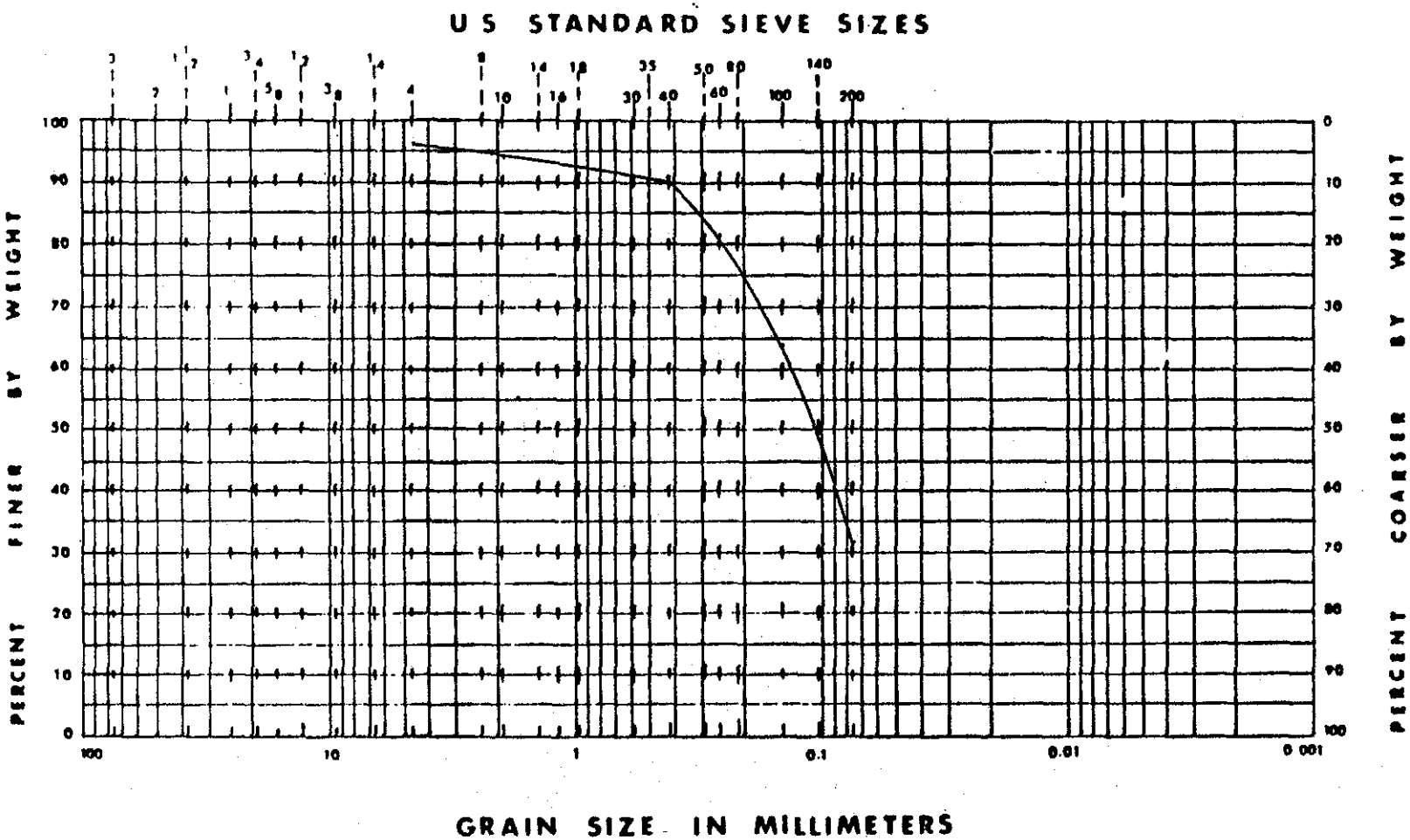
Brazos River Floodgates & Colorado River Locks

Boring No. 87-216 Sample 3J
Depth 28'-30'



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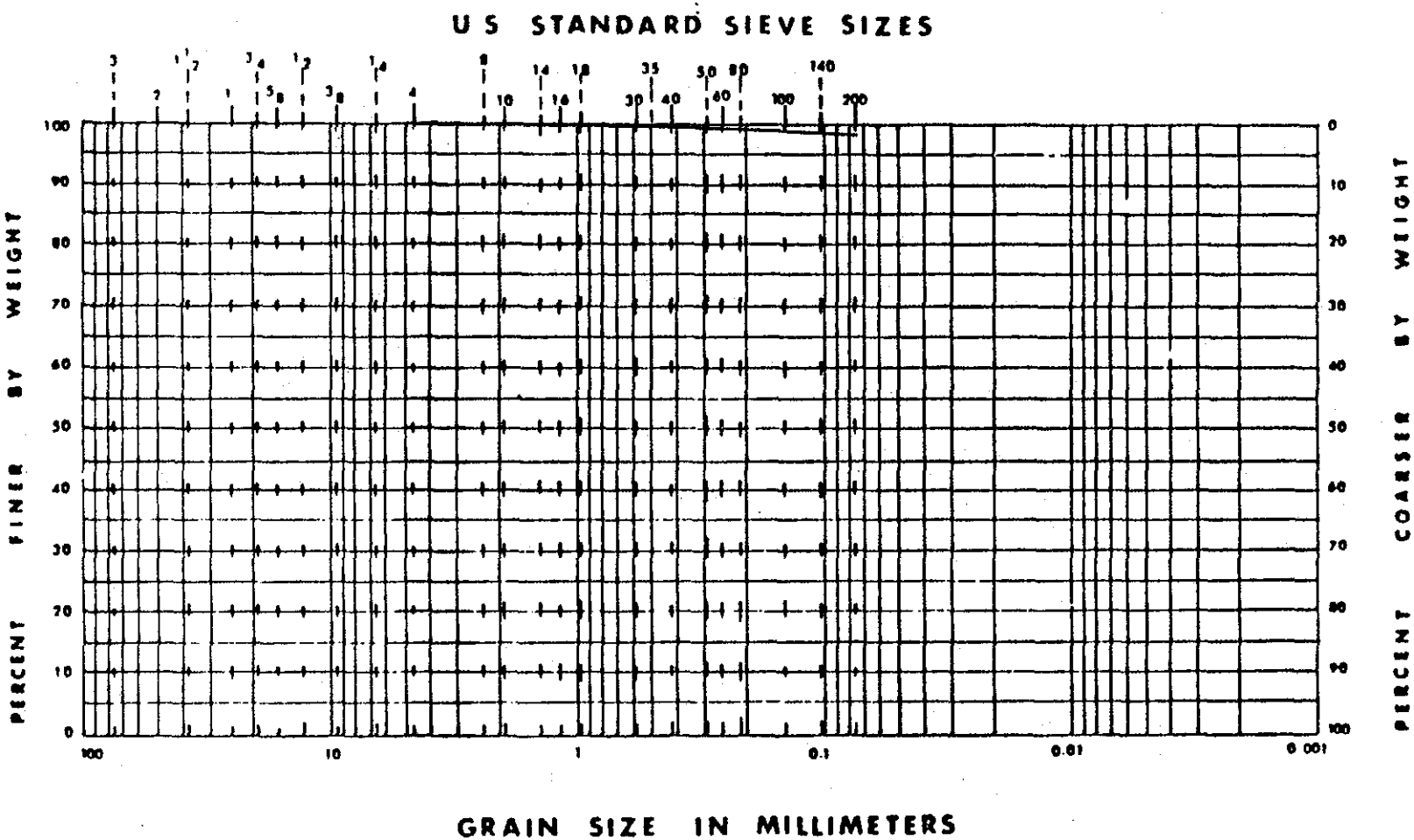
Brazos River Floodgates & Colorado River Locks

Boring No. 87-216 Sample 5C
Depth 32'-34'



GRAVEL		SAND			SILT OR CLAY
COARSE	FINE	COARSE	MEDIUM	FINE	

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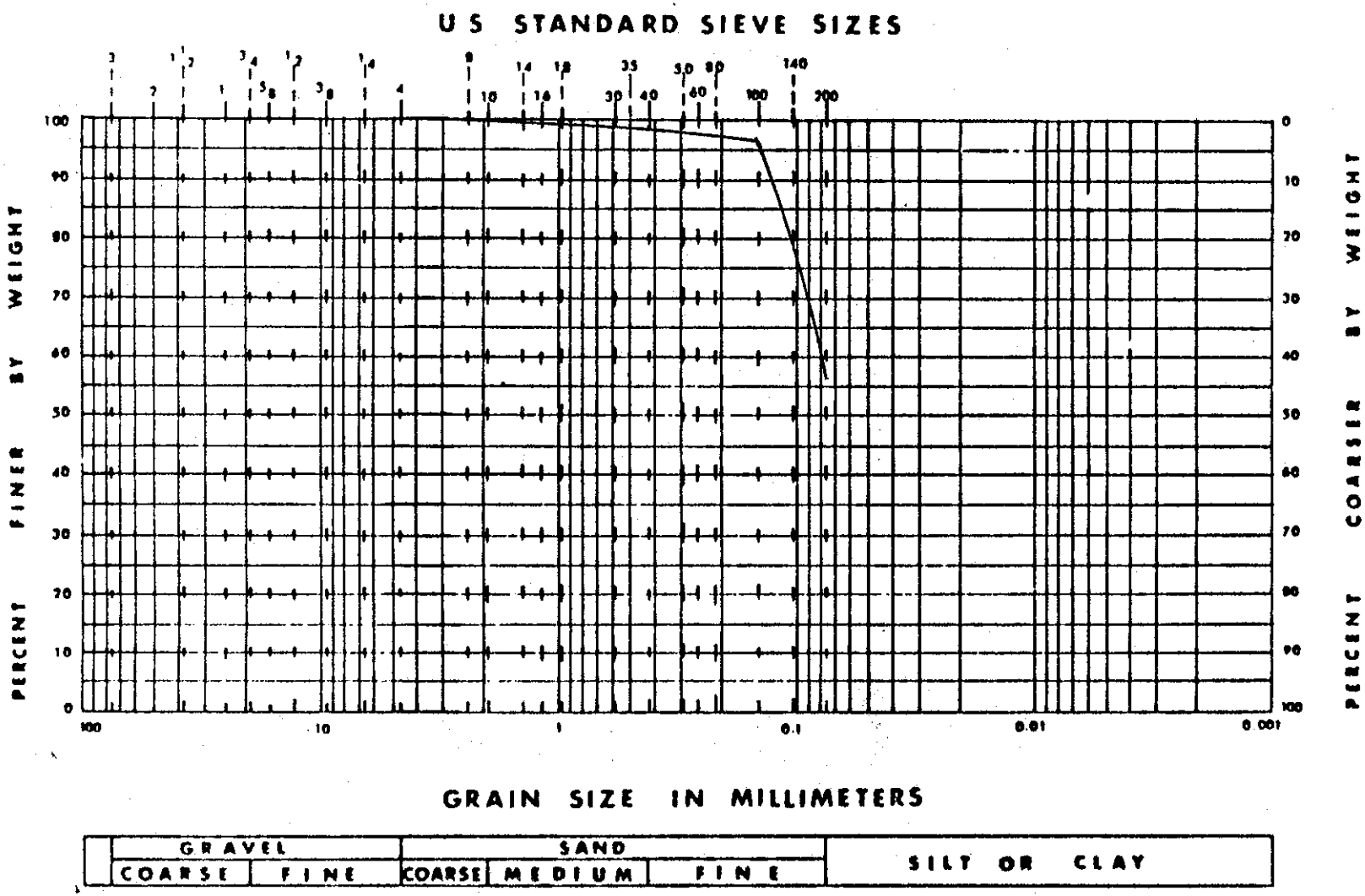
Brazos River Floodgates & Colorado River Locks

Boring No. 87-216 Sample 7J
Depth 36'-38'



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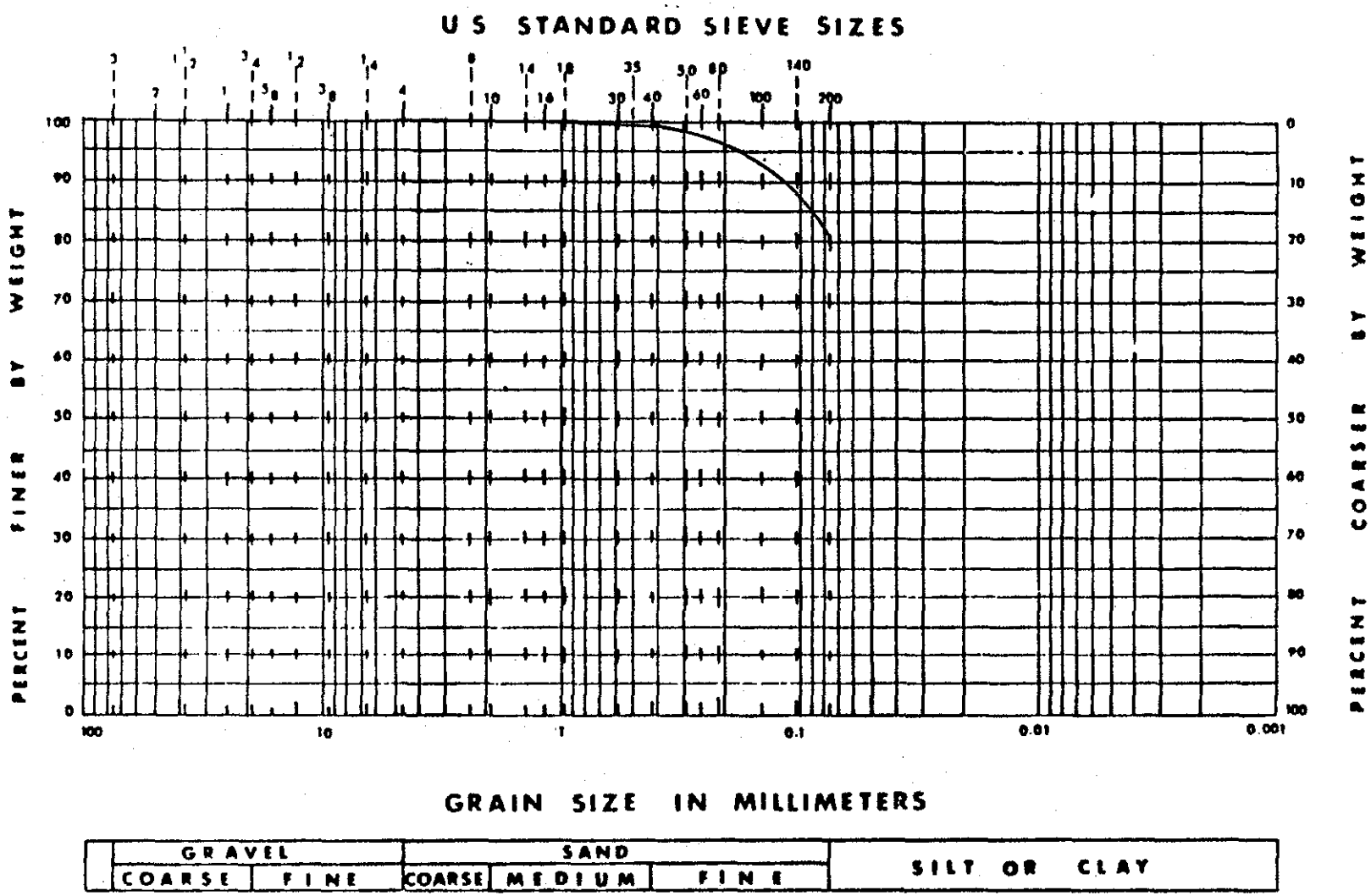
Brazos River Floodgates & Colorado River Locks

Boring No. 87-216 Sample 8C
Depth 40'-42'



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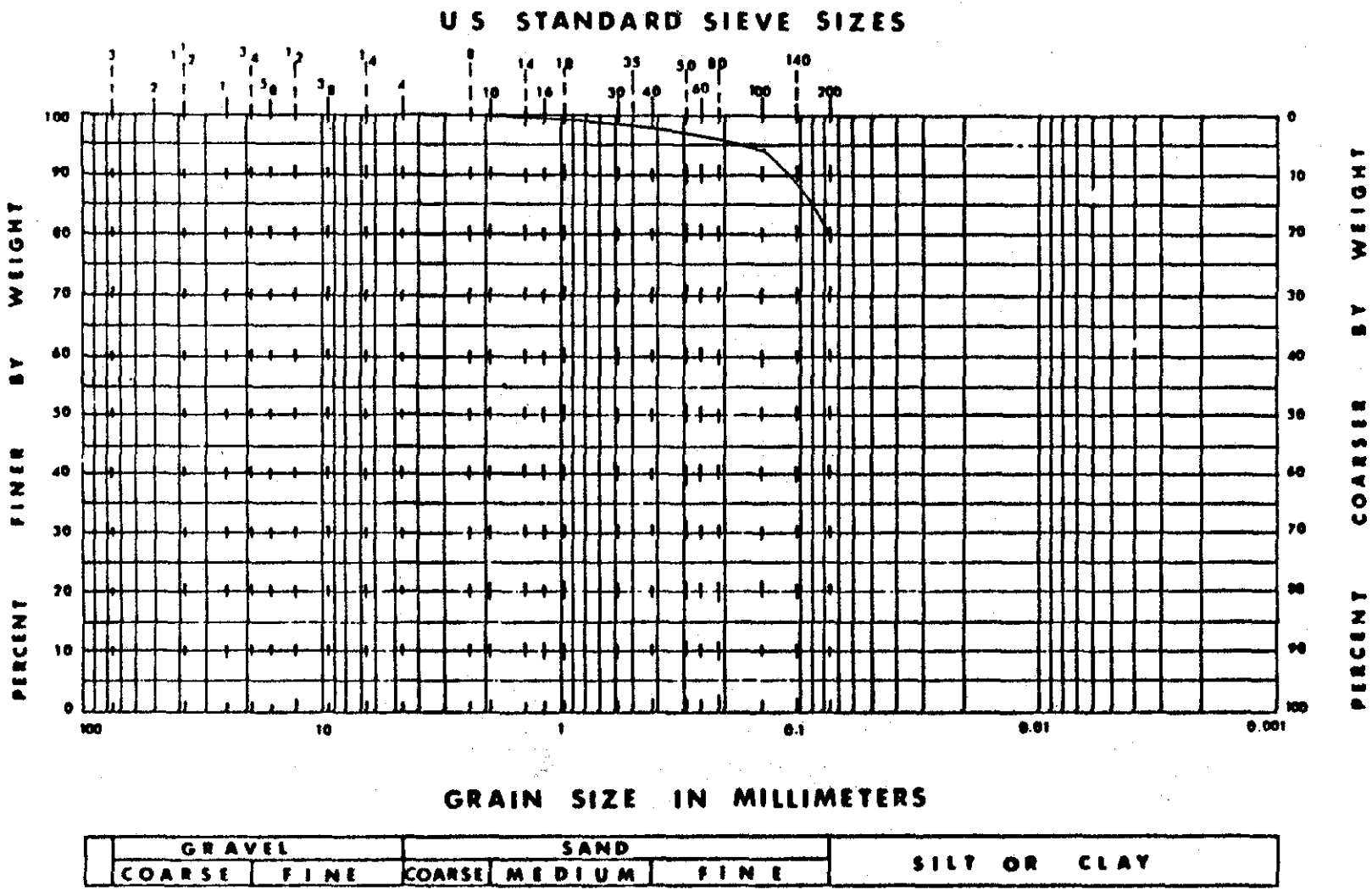
Brazos River Floodgates and Colorado River Locks

Boring No. 87-216 Sample 10C
Depth 44'-46'



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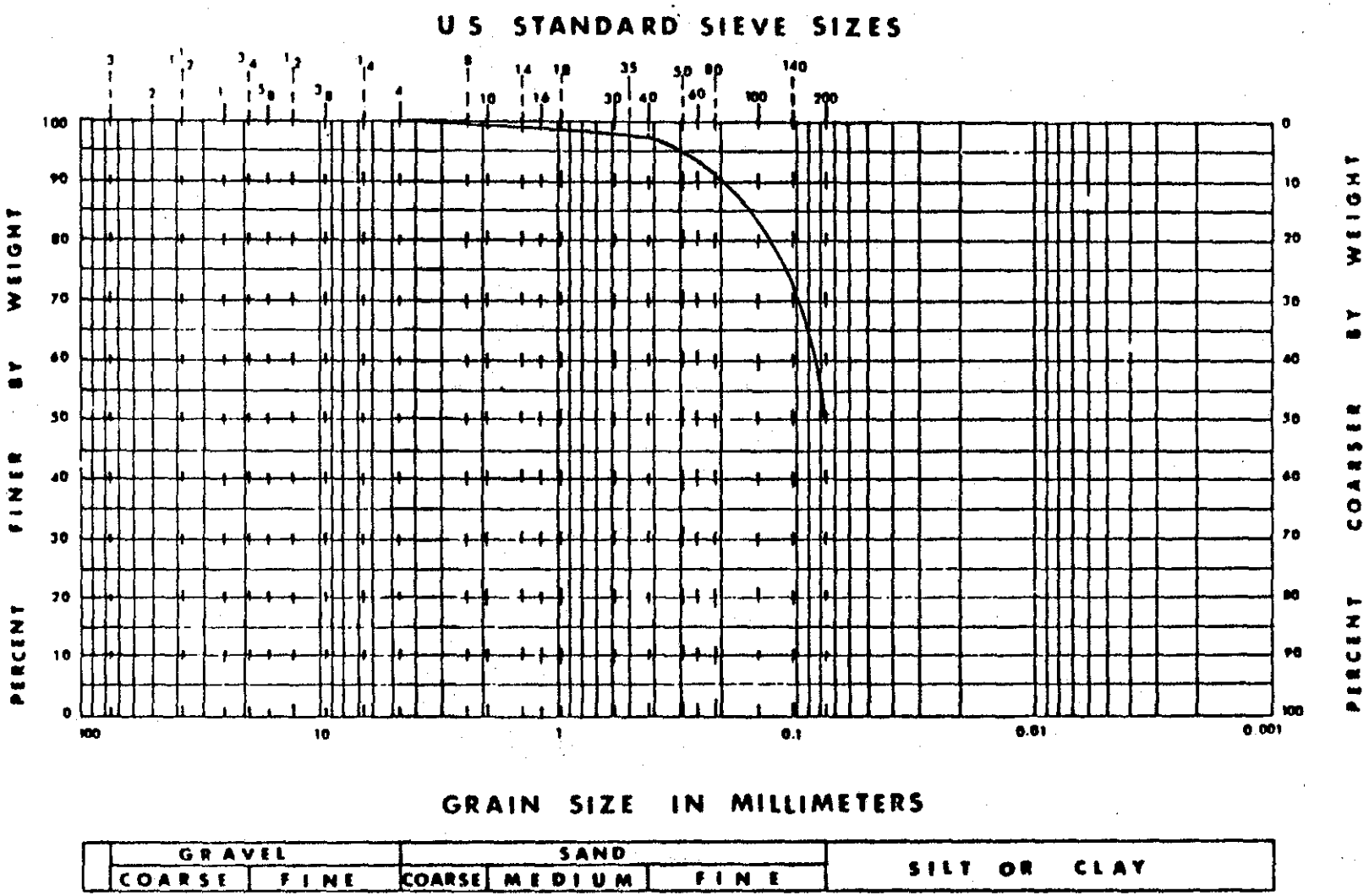
Brazos River Floodgates & Colorado River Locks

Boring No. 87-216 Sample 12C
Depth 48'-50'



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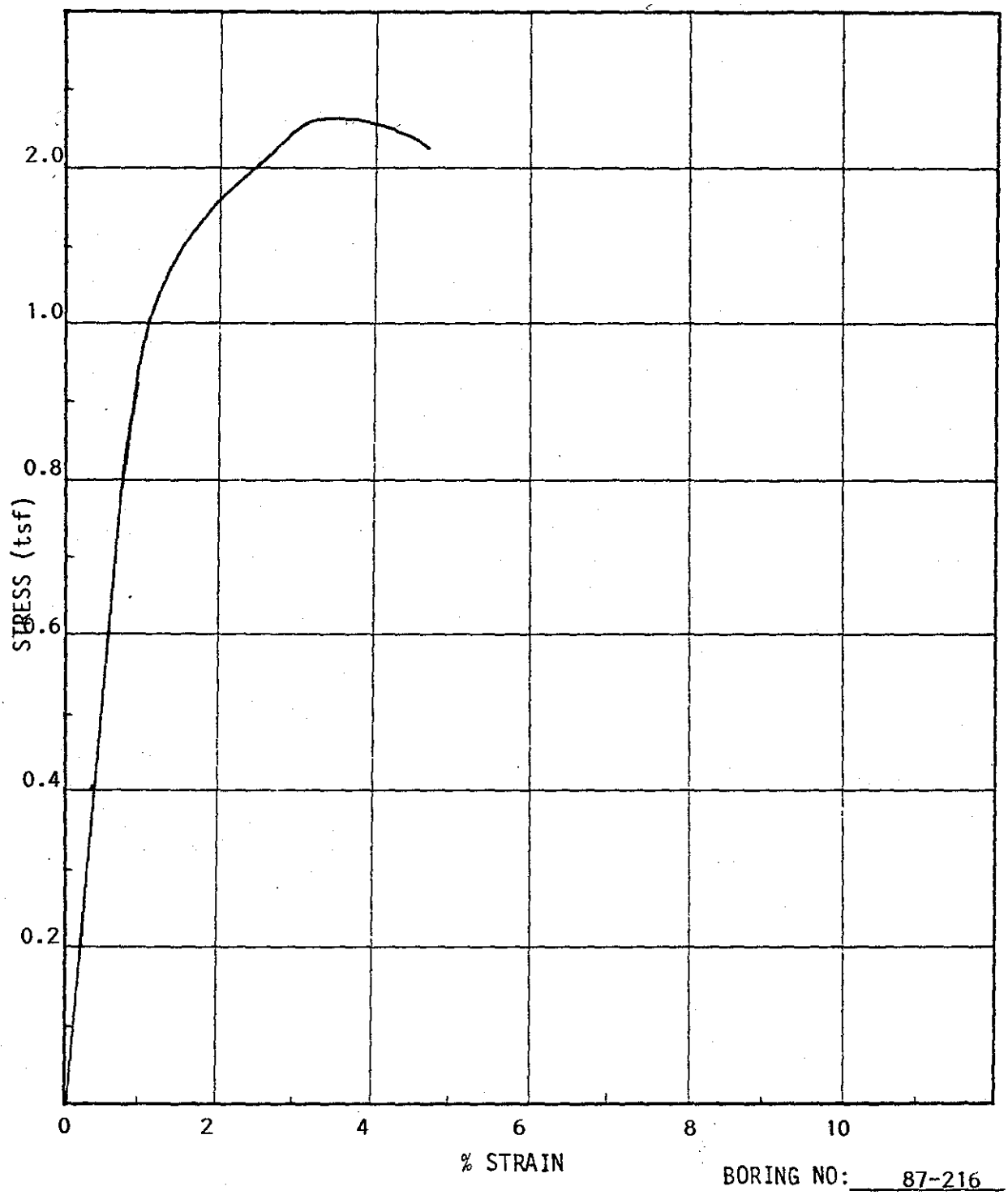
UNCONFINED COMPRESSION TEST



BORING NO: 87-216

SAMPLE DEPTH: 32'-34'

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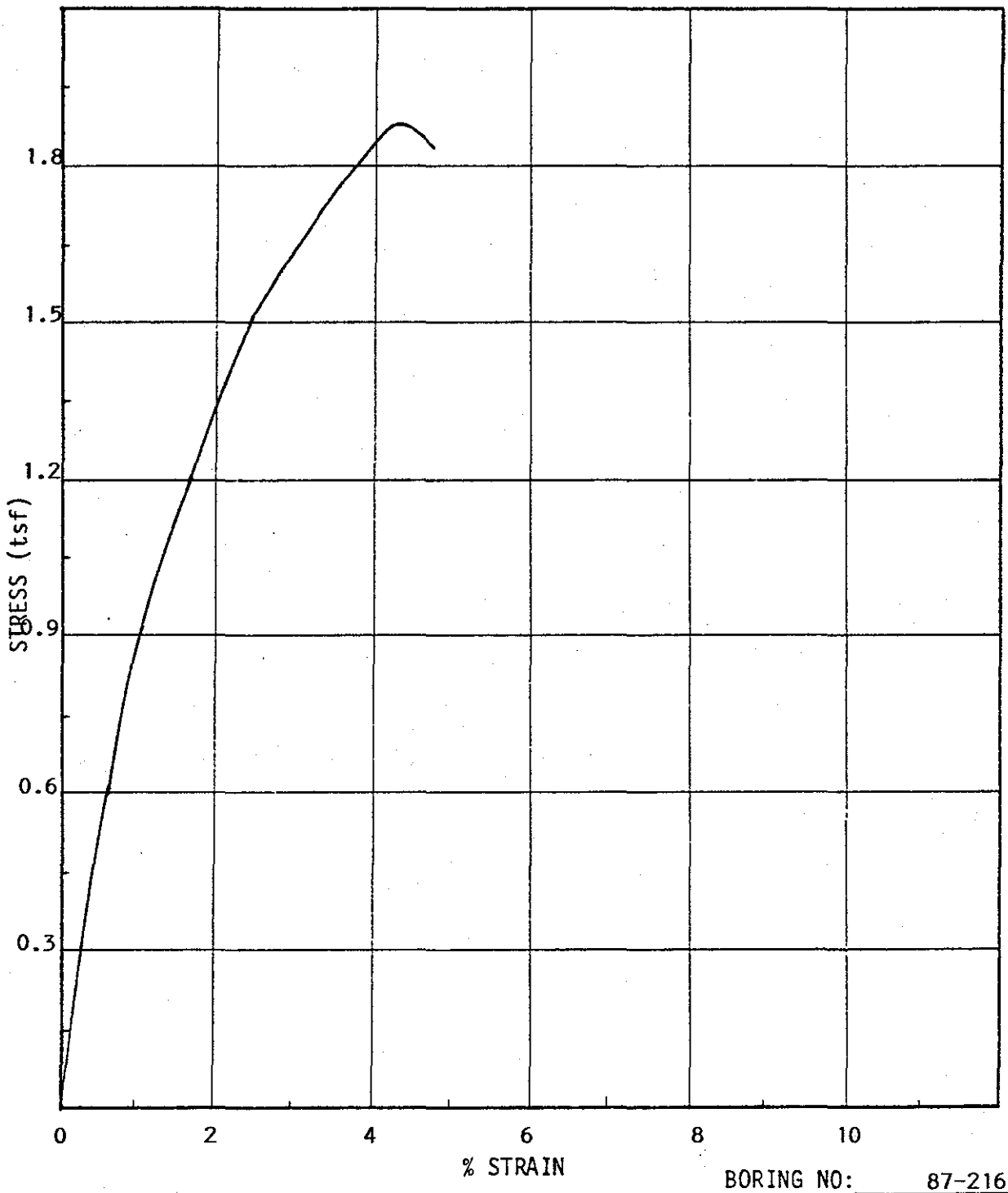
UNCONFINED COMPRESSION TEST



BORING NO: 87-216

SAMPLE DEPTH: 44'-46'

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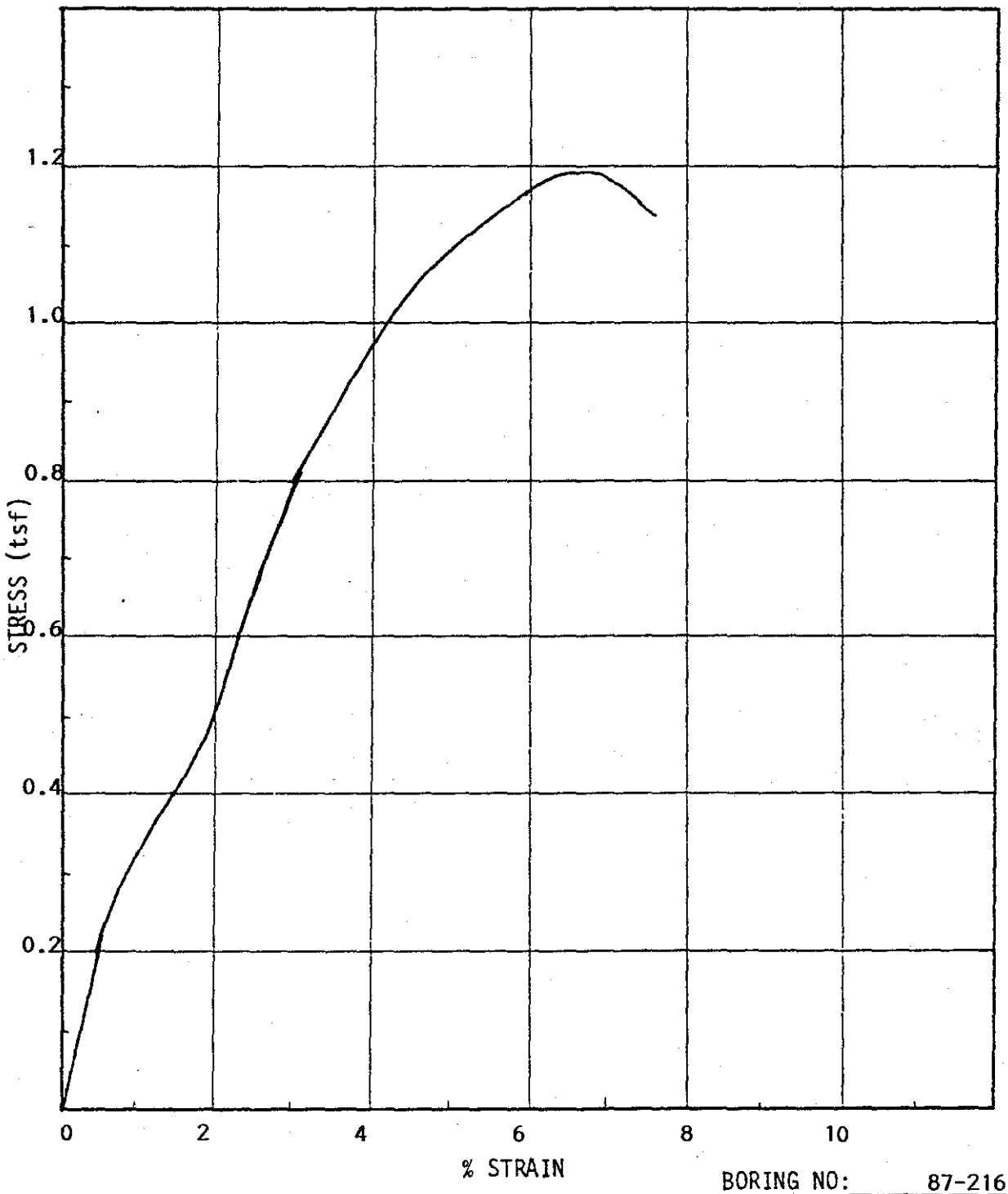
UNCONFINED COMPRESSION TEST



BORING NO: 87-216

SAMPLE DEPTH: 48'-50'