Job No. 0401-2906 Completion Date 5/17/90 Time ____ **Field Log of Boring** 90-70

Elevation ____ Location Disposal Area No. 5 Driller R. AGUILAR

Logger W. CUTSHALL

Lab. Tests	Soil Sample No.	Depth	Type	Depth (ft)	Sample	Blows	Penet.	Comments	Description of Material
									Fill: Intermixed loose sand and soft clay, brown
	1	3.5-5	J		X	1-3-2	—		
				5					
	2	5-7	Q				0.50		
	3	7-9	J				—		
	4	9-10.5	J	10	X	2-3-2	—		
									(14.0')
				15	X				clayey silt, very loose, gray
	5	14-15.5	J			1-1-1	—		
	6	19-20.5	J	20	X	1-1-2	—		- sandy clay layer below 20.5' (21.0')
	7	21-23	Q				2.25		clay, stiff, light brown
	8	23-25	Q				1.5	Bad Sample	· very stiff to 23'
				25					
	9	25-27	Q				1.95	Bad Sample	(27.0')
	10	27-29	J						· silty sand, dense, greenish gray
				30					
	11	32.5-34	J		X	6-14-18	—		- with sandstone parting at 33.5'
				35					
	12	37.5-39	J		X	14-22-26	—		
				40					(40.0')

Remarks: 1) STAKE ON PEAK OF MOUND OFFSET - 100' EAST NEAREST LEVEE & ≈ 5' LOWER ELEVATION

2) CASING SET TO 5' DEPTH.

Depth to Water 10.7' Caved at ____ Date ____ Time ____ ; ____

Boring Sealed? w/cuttings

Dry Auger ____ to ____ ft

Wet Rotary 0 to 40 ft

Water First Noticed ____ ft

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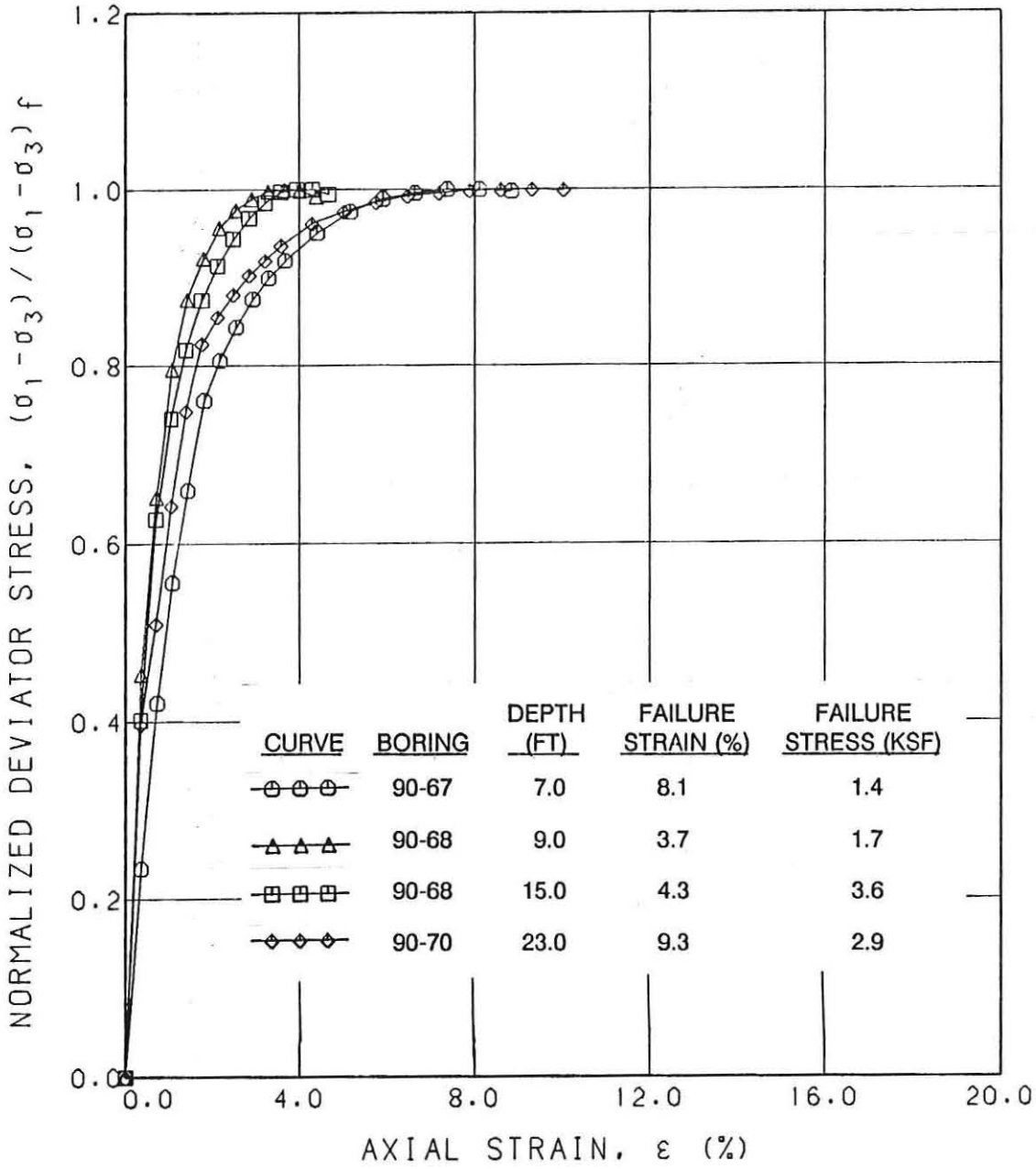
Form ONS-02.07(6/87)

SUMMARY OF TEST RESULTS
Galveston District, Corps of Engineers
Delivery Order No. 0016
Brazos Island Harbor
Brownsville Ship Channel

Boring Number	Sample Number	Sample Depth (ft)	Visual Classification	USCS	MC (%)	UDW (pcf)	LL	PL	PI	Gradation, % Passing Sieve No. 4	10	40	200	UNC Su (ksf)	TV Su (ksf)
90-70	1J	3.5-5	Gray and tan SANDY CLAY w/ cl sms & calc nods	CL	30										
90-70	2Q	5-7	ML ~~Firm~~ SANDY CLAY w/ calc deps and sa pckts & sms	CL	27										
90-70	3J	7-9	Stiff brown CLAY w/ sand pockets	CH	18										
90-70	4J	9-10.5	Red CLAY with free water and sand	CH	65										
90-70	5J	14-15.5	Brown CLAY with shell fragments	CH	42		52				100	97	83		
90-70	6J	19-20.5	Brown CLAY with silt pockets	CH	35										
90-70	7Q	21-23	Stiff brown CLAY w/ ferrous stains	CH	36	86	60					100	99	1.4	
90-70	8Q	23-25	Firm brown CLAY with ferrous stain	CH	39										
90-70	9Q	25-27	Stiff brown CLAY	CH	38										
90-70	10J	27-29	Gray CLAYEY SAND w/ cl partings & seams	SC	23						100	78	34		
90-70	11J	32.5-34	Tan and greenish gray SANDY CLAY w/sa pockets	CL											
90-70	12J	37.5-39	Greenish gray SANDY CLAY w/ calc deposits	CL											
90-71	1Q	3-5	Stiff brown CLAY w/ fe stain & shell frag	CH	37		69								
90-71	2J	7.5-9	Brown fine SILTY SAND w/ clay pockets	SM											
90-71	3J	12.5-14	Brown fine SANDY SILT w/ clay pockets V/loose	ML	24						100	96	53 47%		
90-71	4J	17.5-19	Brown fine SAND Med Den	SP											
90-71	5J	20.5-24	Brown fine SAND w/ clay pockets Dense	SP	23						100	47	15		
90-71	6J	27.5-29	Gray SANDY CLAY w/ sa seams & calc deposits ? V/D	~~CL~~ SP											

PLATE 4



STRESS-STRAIN CURVES
UNCONFINED COMPRESSION TEST