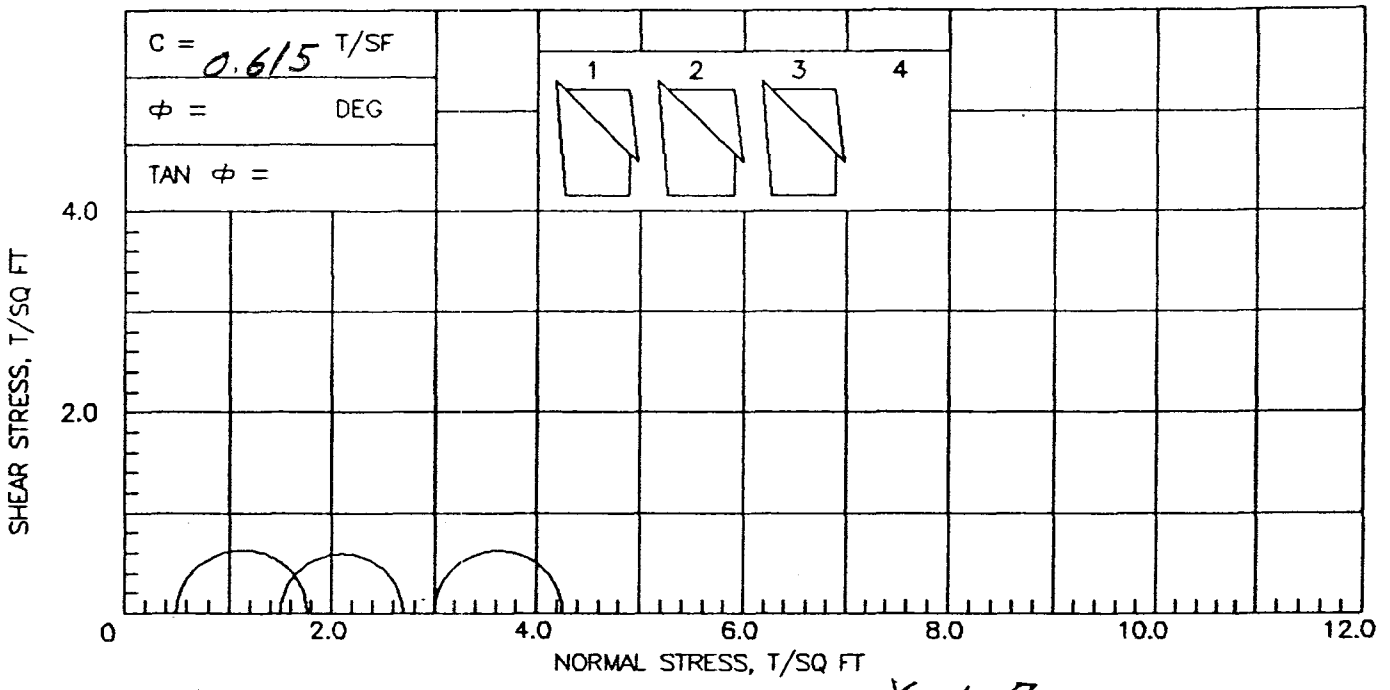

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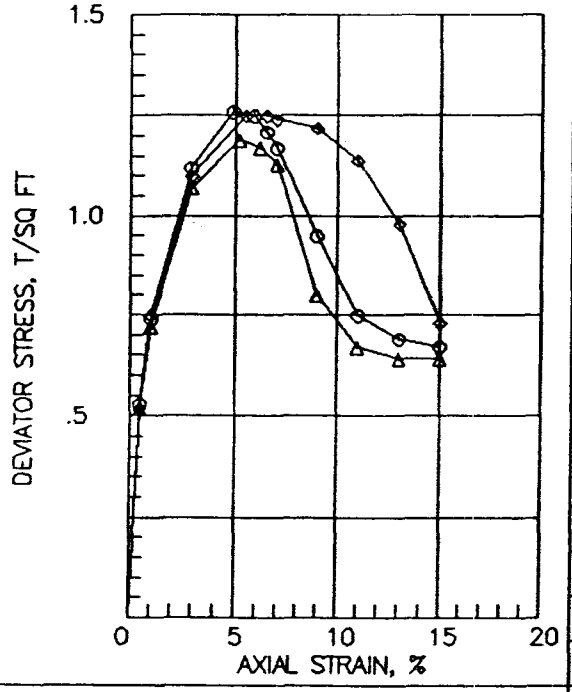


	SPECIMEN NO.	⊙ 1	△ 2	◇ 3	4
INITIAL	WATER CONTENT, %	51.7	52.5	51.8	52.00
	DRY DENSITY, PCF	70.5	70.1	70.3	70.30
	SATURATION, %	100+	100+	100+	100
	VOID RATIO	1.392	1.405	1.397	
BEFORE SHEAR	WATER CONTENT, %				
	DRY DENSITY, PCF				
	SATURATION, %				
	VOID RATIO				
	BACK PRESSURE, TSF				
CHAMBER PRESSURE, TSF		.50	1.50	3.00	
MAX. DEV. STRESS, TSF		1.26	1.19	1.25	1.23
TIME TO FAILURE, MIN.		11	12	17	
STRAIN RATE INCR., %					
INITIAL DIAMETER, IN.		1.36	1.36	1.36	
INITIAL HEIGHT, IN.		3.00	3.00	3.00	

CONTROLLED-STRAIN TEST

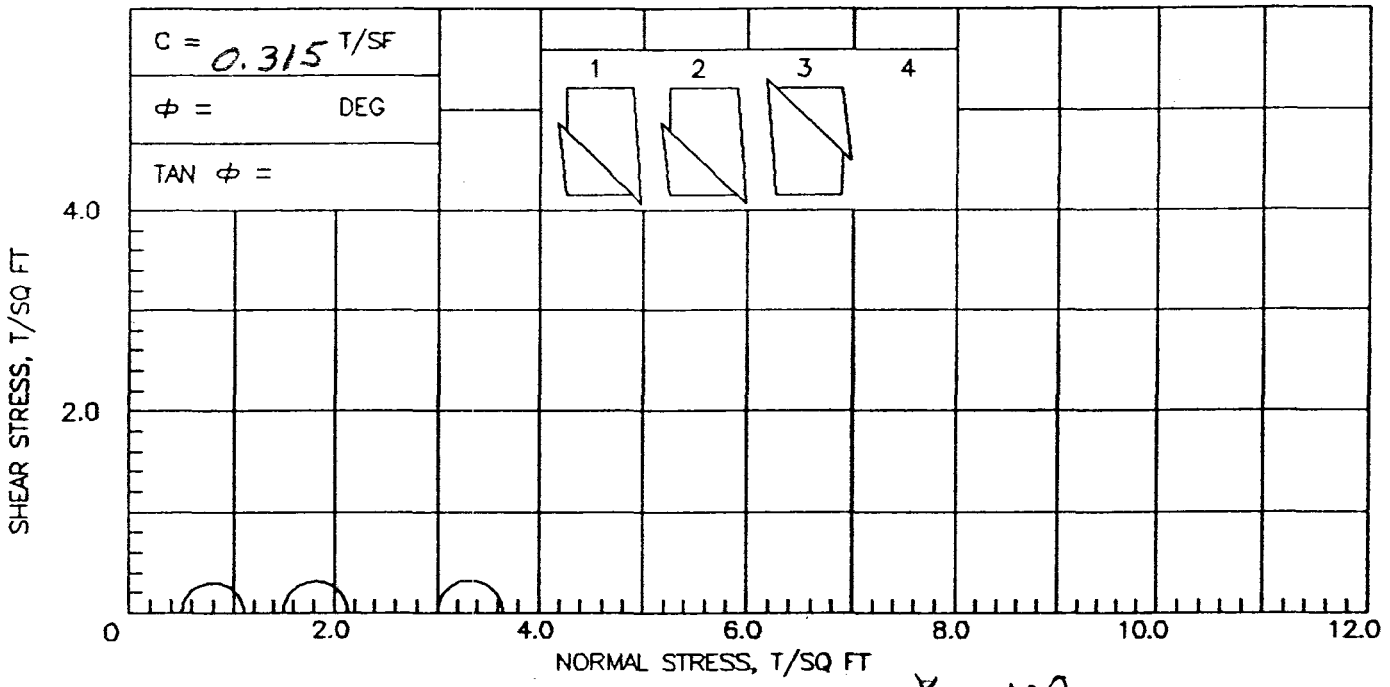
DESCRIPTION OF SPECIMENS: CLAY (CH), GRAY

LL 85	PL 24	PI 61	GS 2.70 (ESTIMATED)	UNDISTURBED SPECIMEN	Q TEST

REMARKS:

PROJECT	INTRACOASTAL WATERWAY LOCKS, LA
	BAYOU SORREL LOCK
BORING NO. 1 BYSU	SAMPLE NO. 29B
DEPTH/ELEV 112/-80.6	TECH. JH
LABORATORY USAE WES - STF/GL	DATE 05 JUL 94

TRIAXIAL COMPRESSION TEST REPORT



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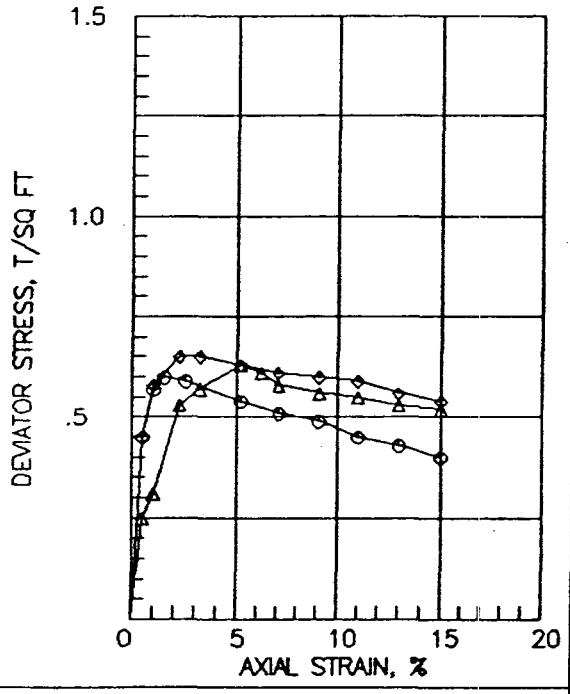


SPECIMEN NO.		○ 1	△ 2	◇ 3	4
INITIAL	WATER CONTENT, %	44.9	43.5	45.2	44.53
	DRY DENSITY, PCF	74.8	74.6	75.0	74.80
	SATURATION, %	96.8	93.3	97.9	96.00
	VOID RATIO	1.252	1.258	1.246	
BEFORE SHEAR	WATER CONTENT, %				
	DRY DENSITY, PCF				
	SATURATION, %				
	VOID RATIO				
	BACK PRESSURE, TSF				
CHAMBER PRESSURE, TSF		.50	1.50	3.00	
MAX. DEV. STRESS, TSF		.60	.63	.65	.63
TIME TO FAILURE, MIN.		3	28	14	
STRAIN RATE INCR., %				9	
INITIAL DIAMETER, IN.		1.36	1.36	1.36	
INITIAL HEIGHT, IN.		3.00	3.00	3.00	

CONTROLLED-STRAIN TEST

DESCRIPTION OF SPECIMENS: CLAY (CH), GRAY

LL 84	PL 23	PI 61	GS 2.70 (ESTIMATED)	UNDISTURBED SPECIMEN	Q TEST

REMARKS:

PROJECT INTRACOASTAL WATERWAY LOCKS, LA

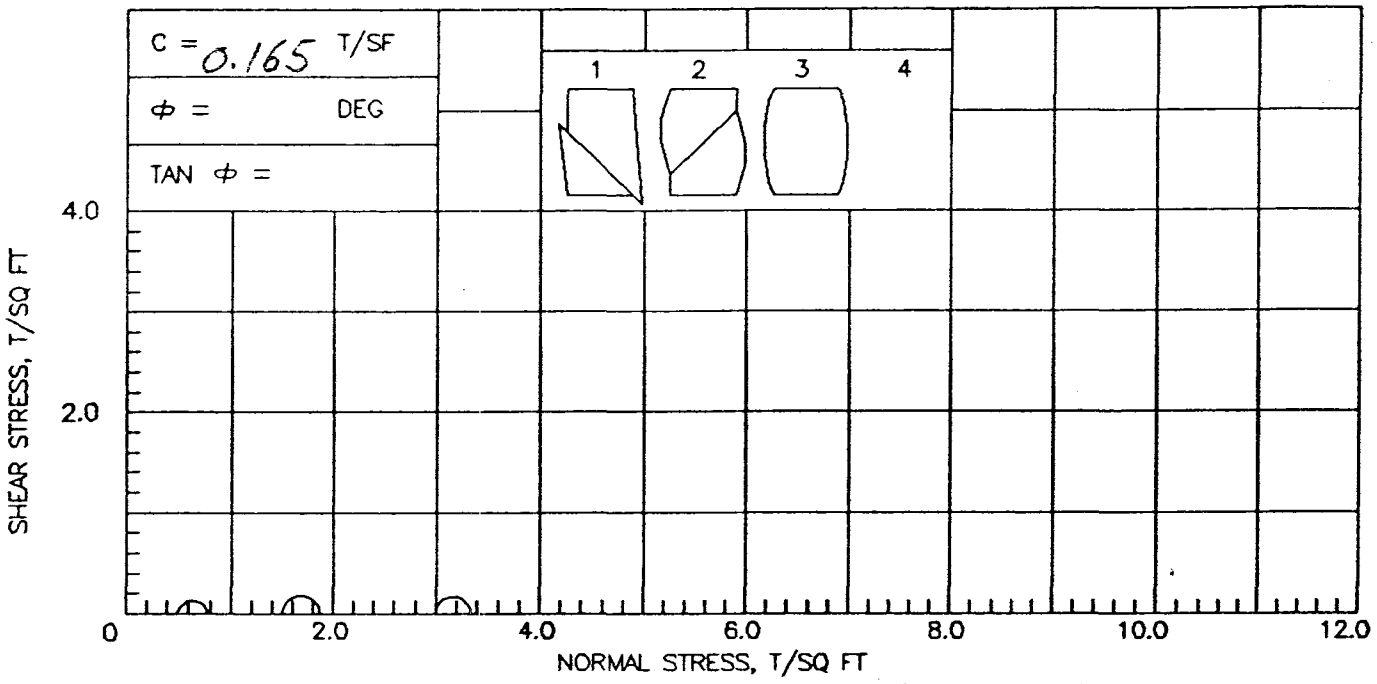
BAYOU SORREL LOCK

BORING NO. 2 BYSU | SAMPLE NO. 2D

DEPTH/ELEV 6.2/+10.5 | TECH. JH

LABORATORY USAE WES – STF/GL | DATE 06 JUL 94

TRIAXIAL COMPRESSION TEST REPORT



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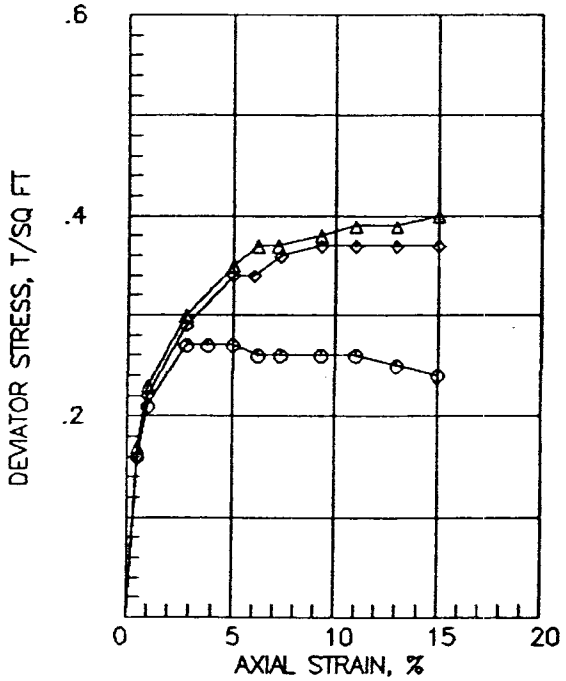


SPECIMEN NO.		○ 1	△ 2	◇ 3	4
INITIAL	WATER CONTENT, %	50.4	52.4	50.6	51.13
	DRY DENSITY, PCF	71.4	69.9	70.8	70.75
	SATURATION, %	100+	100+	99.0	100
	VOID RATIO	1.361	1.412	1.380	
BEFORE SHEAR	WATER CONTENT, %				
	DRY DENSITY, PCF				
	SATURATION, %				
	VOID RATIO				
	BACK PRESSURE, TSF				
CHAMBER PRESSURE, TSF		.50	1.50	3.00	
MAX. DEV. STRESS, TSF		.27	.37	.34	.33
TIME TO FAILURE, MIN.		6	34	16	
STRAIN RATE INCR., %			9		
INITIAL DIAMETER, IN.		1.36	1.36	1.36	
INITIAL HEIGHT, IN.		3.00	3.00	3.00	

CONTROLLED-STRAIN TEST

DESCRIPTION OF SPECIMENS: CLAY (CH), GRAY

LL 91	PL 26	PI 65	GS 2.70 (ESTIMATED)	UNDISTURBED SPECIMEN	Q TEST

REMARKS:

PROJECT INTRACOASTAL WATERWAY LOCKS, LA

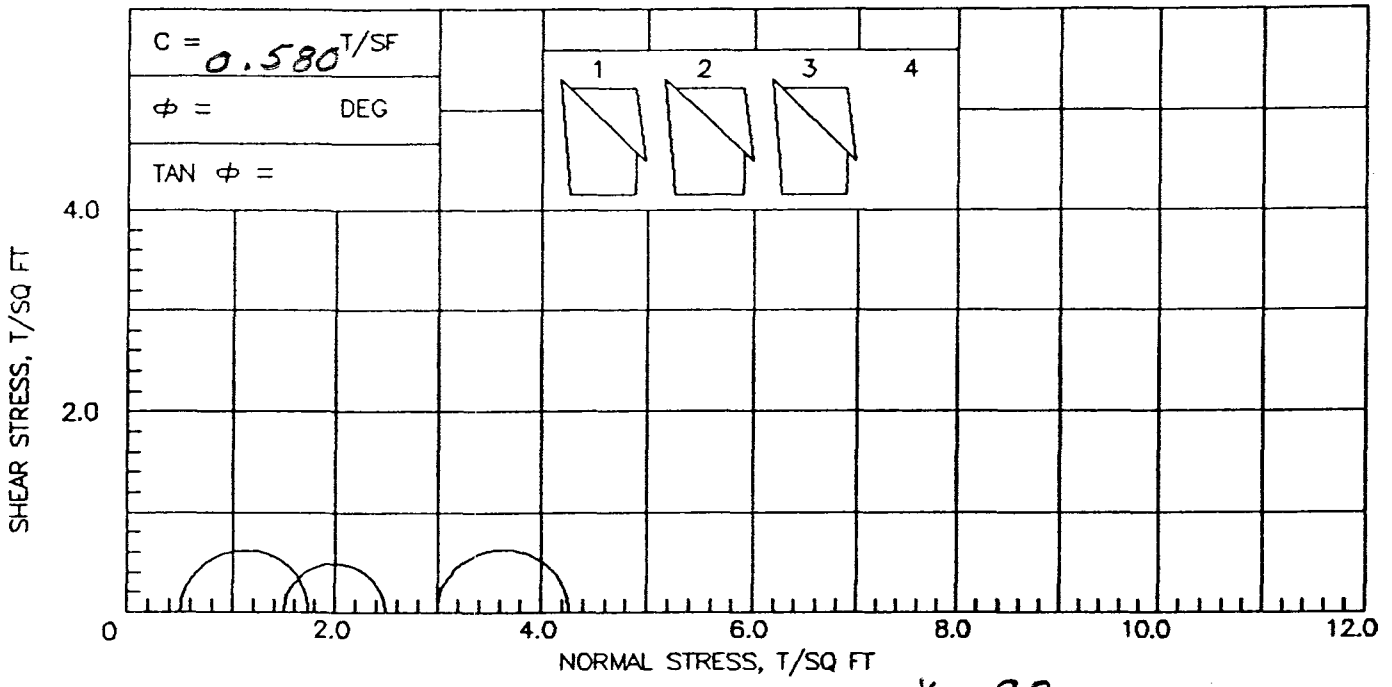
BAYOU SORREL LOCK

BORING NO. 2 BYSU | SAMPLE NO. 5B

DEPTH/ELEV 16.0/+0.7 | TECH. JH

LABORATORY USAE WES – STF/GL | DATE 15 JUL 94

TRIAXIAL COMPRESSION TEST REPORT



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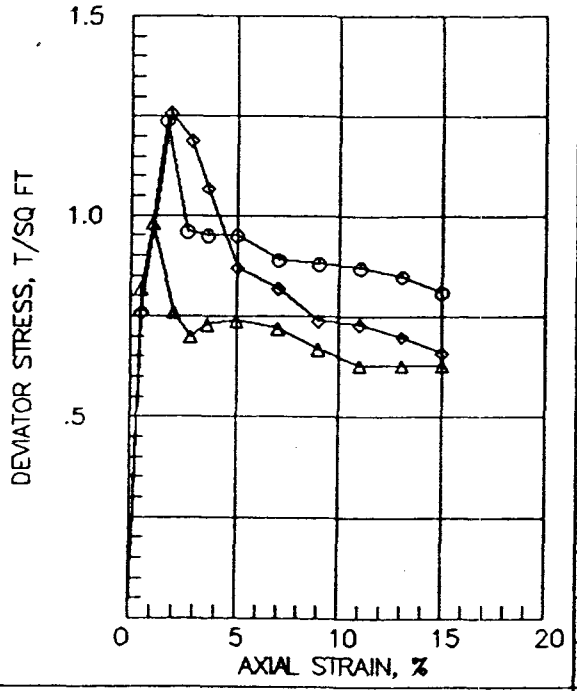


SPECIMEN NO.		○ 1	△ 2	◇ 3	4
INITIAL	WATER CONTENT, %	72.2	74.2	71.0	72.47
	DRY DENSITY, PCF	57.2	56.2	57.8	57.67
	SATURATION, %	100+	100+	100+	100
	VOID RATIO	1.945	2.002	1.919	
BEFORE SHEAR	WATER CONTENT, %				
	DRY DENSITY, PCF				
	SATURATION, %				
	VOID RATIO				
	BACK PRESSURE, TSF				
CHAMBER PRESSURE, TSF		.50	1.50	3.00	
MAX. DEV. STRESS, TSF		1.24	.98	1.26	1.16
TIME TO FAILURE, MIN.		4	5	13	
STRAIN RATE INCR., %			3	2	
INITIAL DIAMETER, IN.		1.36	1.36	1.36	
INITIAL HEIGHT, IN.		3.00	3.00	3.00	

CONTROLLED-STRAIN TEST

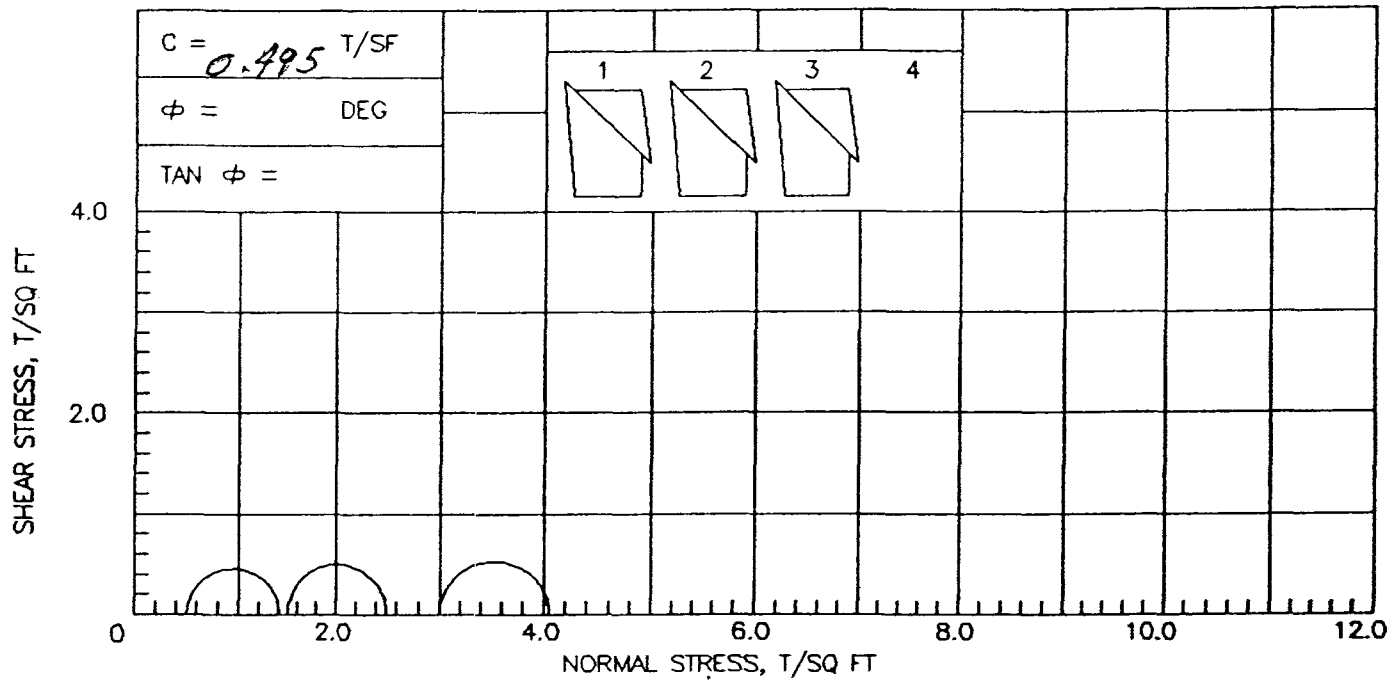
DESCRIPTION OF SPECIMENS: CLAY (CH), GRAY; ORGANIC MATERIAL

LL 130	PL 32	PI 98	GS 2.70 (ESTIMATED)	UNDISTURBED SPECIMEN	Q TEST

REMARKS:

PROJECT	INTRACOASTAL WATERWAY LOCKS, LA
	BAYOU SORREL LOCK
BORING NO. 2 BYSU	SAMPLE NO. 17B
DEPTH/ELEV 64.0/-47.3	TECH. JH
LABORATORY USAE WES - STF/GL	DATE 06 JUL 94

TRIAXIAL COMPRESSION TEST REPORT



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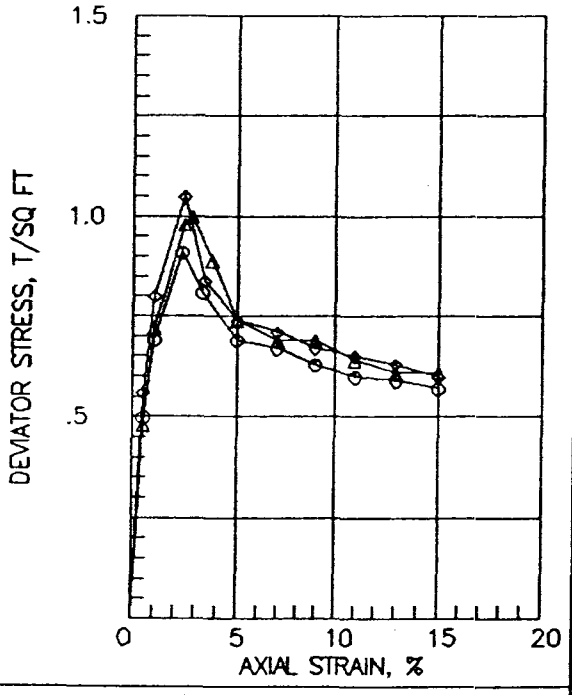


SPECIMEN NO.		○ 1	△ 2	◇ 3	4
INITIAL	WATER CONTENT, %	62.4	62.1	62.5	62.33
	DRY DENSITY, PCF	63.0	62.8	62.7	62.83
	SATURATION, %	100+	99.6	99.9	100
	VOID RATIO	1.677	1.683	1.688	
BEFORE SHEAR	WATER CONTENT, %				
	DRY DENSITY, PCF				
	SATURATION, %				
	VOID RATIO				
	BACK PRESSURE, TSF				
CHAMBER PRESSURE, TSF		.50	1.50	3.00	
MAX. DEV. STRESS, TSF		.91	1.00	1.05	0.77
TIME TO FAILURE, MIN.		5	15	13	
STRAIN RATE INCR., %			7	5	
INITIAL DIAMETER, IN.		1.36	1.36	1.36	
INITIAL HEIGHT, IN.		3.00	3.00	3.00	

CONTROLLED-STRAIN TEST

DESCRIPTION OF SPECIMENS: CLAY (CH), GRAY

LL 86	PL 23	PI 63	GS 2.70 (ESTIMATED)	UNDISTURBED SPECIMEN	Q TEST

REMARKS:

PROJECT INTRACOASTAL WATERWAY LOCKS, LA

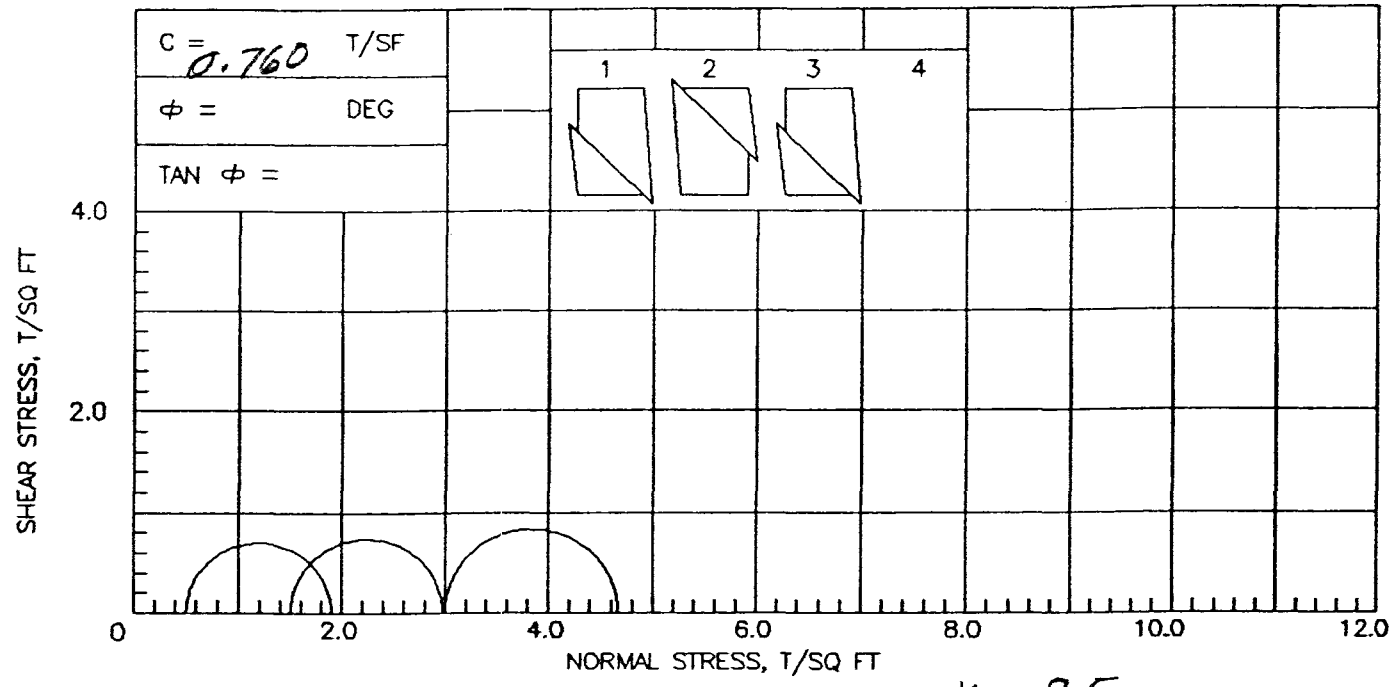
BAYOU SORREL LOCK

BORING NO. 2 BYSU | SAMPLE NO. 18C

DEPTH/ELEV 69.5/-52.8 | TECH. JH

LABORATORY USAE WES - STF/GL | DATE 07 JUL 94

TRIAXIAL COMPRESSION TEST REPORT



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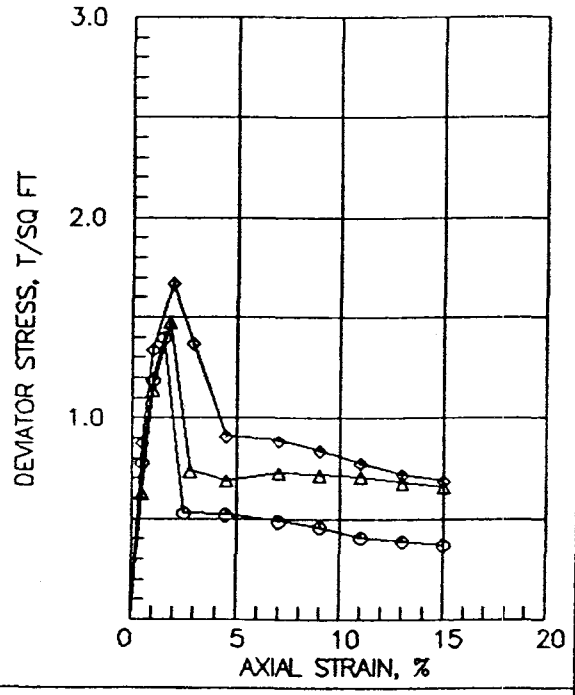


SPECIMEN NO.		○ 1	△ 2	◇ 3	4
INITIAL	WATER CONTENT, %	78.2	81.7	79.0	79.63
	DRY DENSITY, PCF	53.6	51.8	52.9	52.77
	SATURATION, %	98.4	97.9	97.5	97.93
	VOID RATIO	2.146	2.254	2.189	
BEFORE SHEAR	WATER CONTENT, %				
	DRY DENSITY, PCF				
	SATURATION, %				
	VOID RATIO				
	BACK PRESSURE, TSF				
CHAMBER PRESSURE, TSF		.50	1.50	3.00	
MAX. DEV. STRESS, TSF		1.40	1.48	1.67	1.52
TIME TO FAILURE, MIN.		3	9	15	
STRAIN RATE INCR., %			2	4	
INITIAL DIAMETER, IN.		1.36	1.36	1.36	
INITIAL HEIGHT, IN.		3.00	3.00	3.00	

CONTROLLED-STRAIN TEST

DESCRIPTION OF SPECIMENS: CLAY (CH), GRAY; ORGANIC MATERIAL

LL 132	PL 36	PI 96	GS 2.70 (ESTIMATED)	UNDISTURBED SPECIMEN	Q TEST

REMARKS:

PROJECT INTRACOASTAL WATERWAY LOCKS, LA

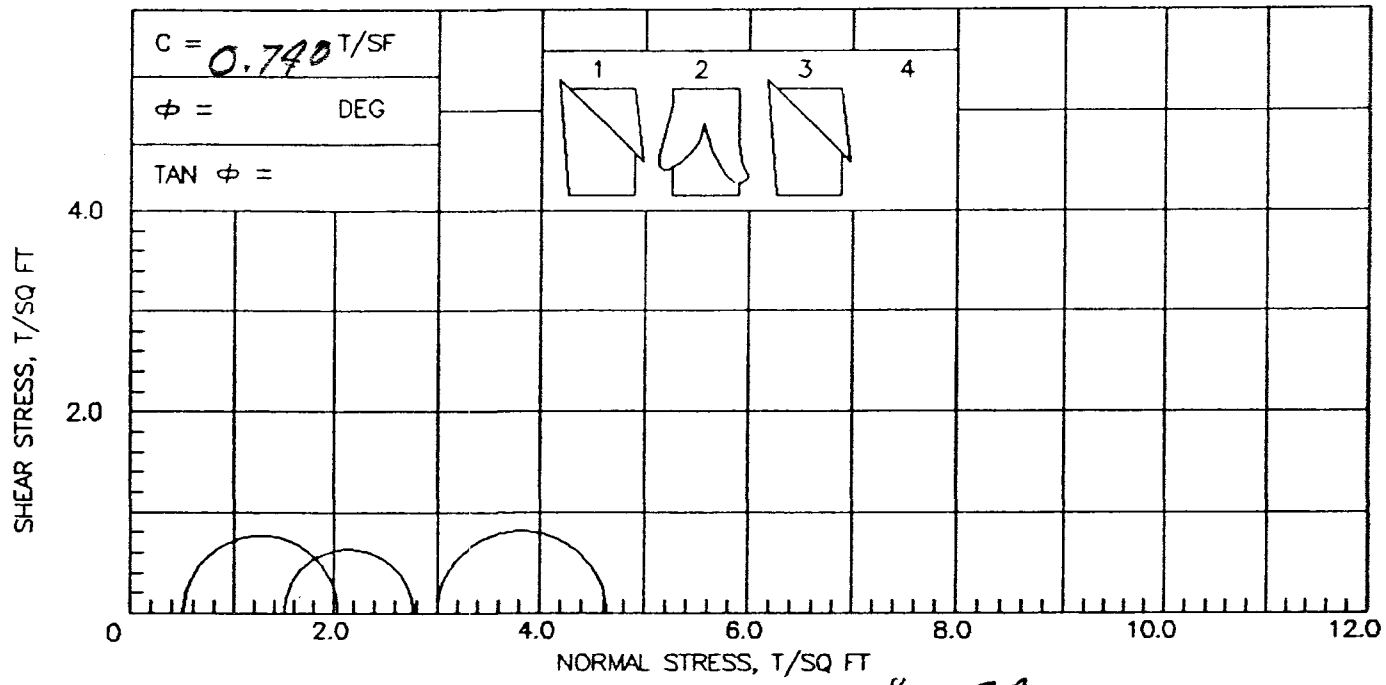
BAYOU SORREL LOCK

BORING NO. 2 BYSU | SAMPLE NO. 22B

DEPTH/ELEV 84.0/-67.3 | TECH. JH

LABORATORY USAE WES - STF/GL | DATE 08 JUL 94

TRIAXIAL COMPRESSION TEST REPORT



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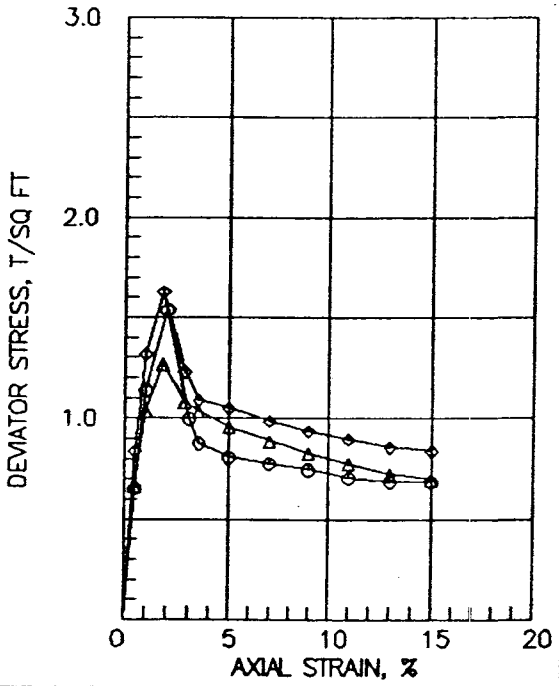


SPECIMEN NO.		○ 1	△ 2	◇ 3	4
INITIAL	WATER CONTENT, %	86.9	68.4	75.6	76.77
	DRY DENSITY, PCF	48.5	57.7	54.2	53.47
	SATURATION, %	94.8	96.1	96.7	95.27
	VOID RATIO	2.473	1.921	2.111	
BEFORE SHEAR	WATER CONTENT, %				
	DRY DENSITY, PCF				
	SATURATION, %				
	VOID RATIO				
	BACK PRESSURE, TSF				
CHAMBER PRESSURE, TSF		.50	1.50	3.00	
MAX. DEV. STRESS, TSF		1.54	1.27	1.63	1.83
TIME TO FAILURE, MIN.		5	10	15	
STRAIN RATE INCR., %			3	3	
INITIAL DIAMETER, IN.		1.36	1.36	1.36	
INITIAL HEIGHT, IN.		3.00	3.00	3.00	

CONTROLLED-STRAIN TEST

DESCRIPTION OF SPECIMENS: CLAY (CH), GRAY; ORGANIC MATERIAL

LL 130	PL 37	PI 93	GS 2.70 (ESTIMATED)	UNDISTURBED SPECIMEN	Q TEST

REMARKS:

PROJECT INTRACOASTAL WATERWAY LOCKS, LA

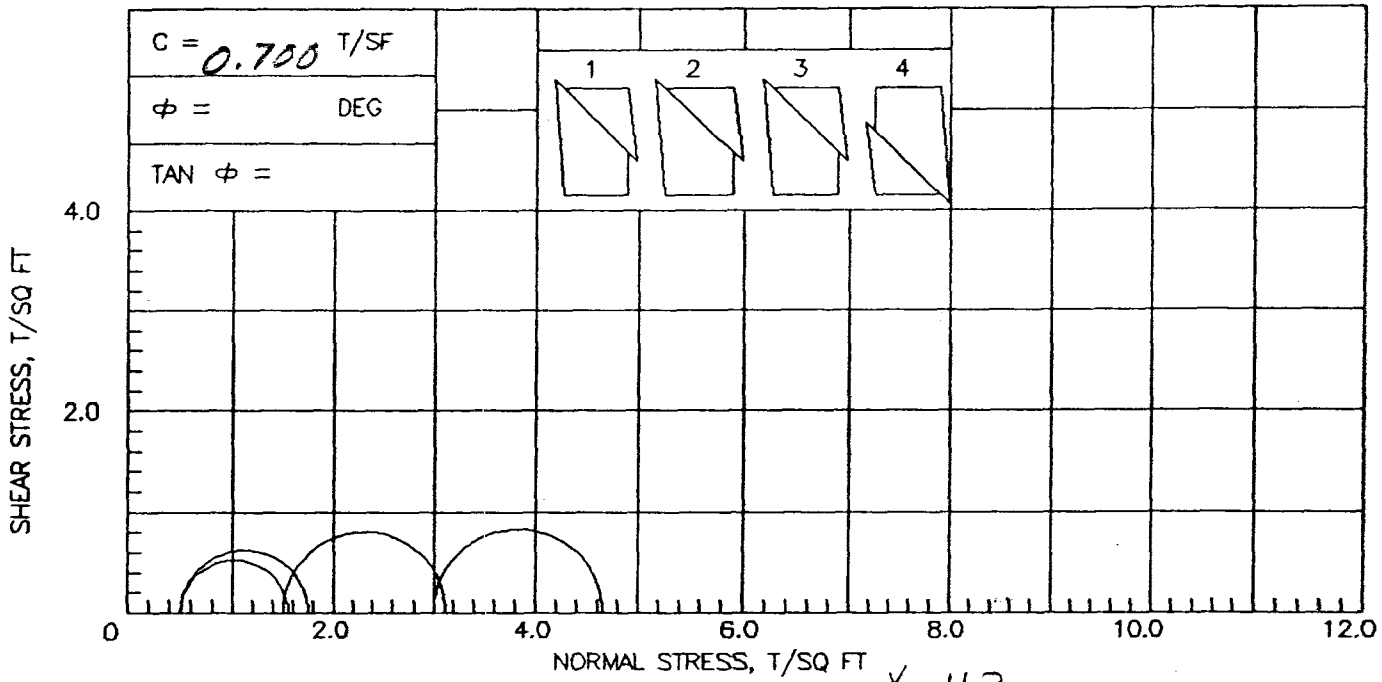
BAYOU SORREL LOCK

BORING NO. 2 BYSU | SAMPLE NO. 23B

DEPTH/ELEV 88.0/-71.3 | TECH. JH

LABORATORY USAE WES - STF/GL | DATE 08 JUL 94

TRIAXIAL COMPRESSION TEST REPORT



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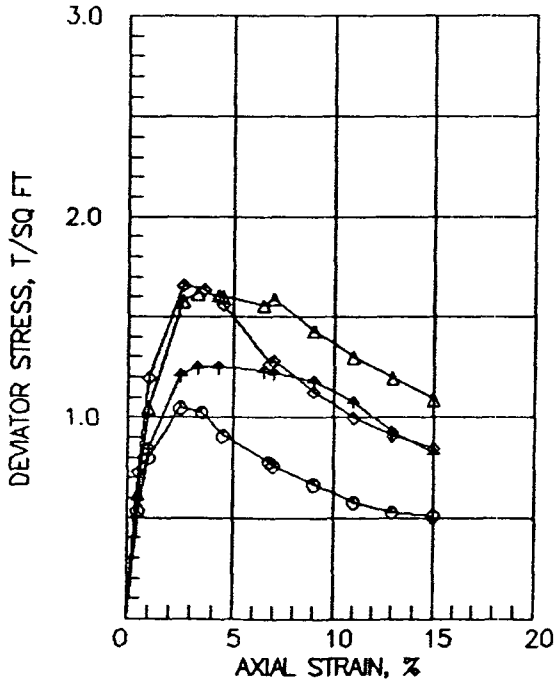


SPECIMEN NO.		○ 1	△ 2	◇ 3	+ 4	
INITIAL	WATER CONTENT, %	40.2	39.7	38.0	39.5	39.35
	DRY DENSITY, PCF	80.5	81.2	82.2	80.8	81.17
	SATURATION, %	99.2	99.7	97.8	98.1	98.95
	VOID RATIO	1.095	1.076	1.050	1.087	
BEFORE SHEAR	WATER CONTENT, %					
	DRY DENSITY, PCF					
	SATURATION, %					
	VOID RATIO					
	BACK PRESSURE, TSF					
CHAMBER PRESSURE, TSF		.50	1.50	3.00	.50	
MAX. DEV. STRESS, TSF		1.05	1.62	1.66	1.25	1.40
TIME TO FAILURE, MIN.		6	18	15	18	
STRAIN RATE INCR., %			6	6		
INITIAL DIAMETER, IN.		1.36	1.36	1.36	1.36	
INITIAL HEIGHT, IN.		3.00	3.00	3.00	3.00	

CONTROLLED-STRAIN TEST

DESCRIPTION OF SPECIMENS: CLAY (CH), GRAY

LL	PL	PI	GS 2.70 (ESTIMATED)	UNDISTURBED SPECIMEN	Q TEST

REMARKS:

PROJECT INTRACOASTAL WATERWAY LOCKS, LA

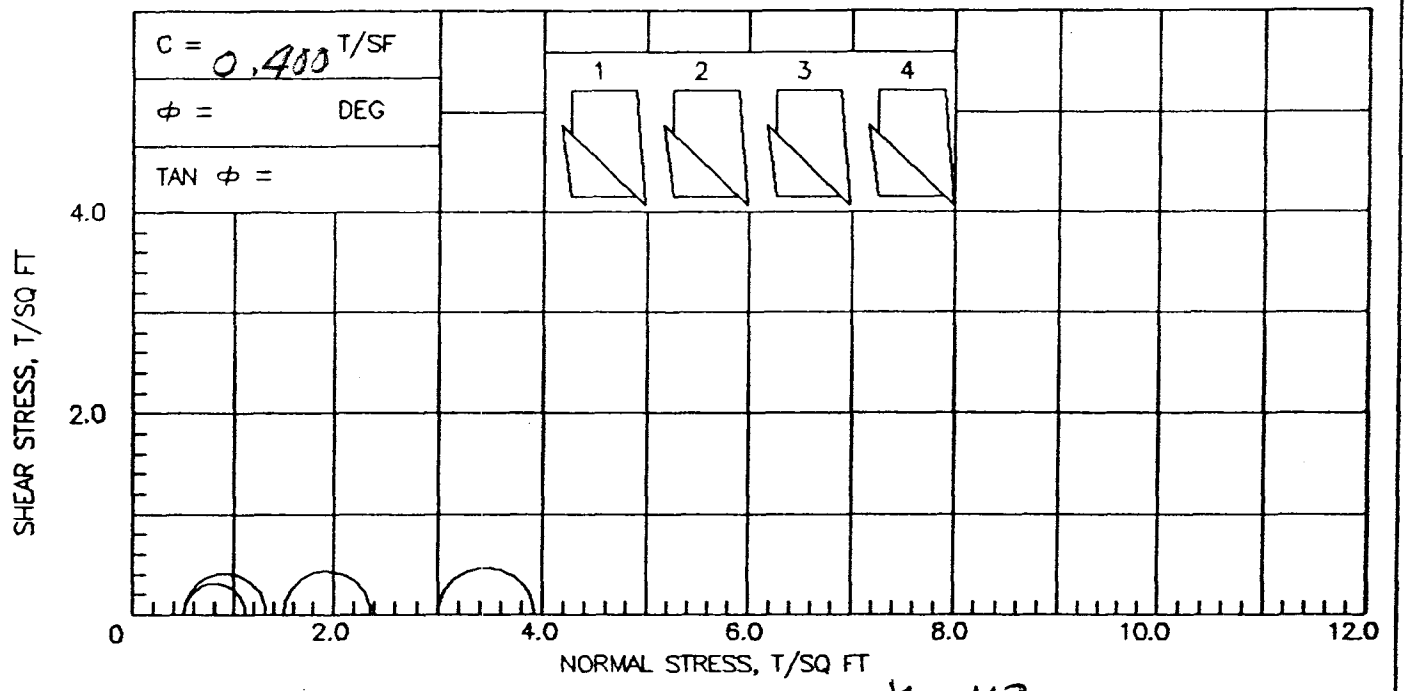
BAYOU SORREL LOCK

BORING NO. 2 BYSU | SAMPLE NO. 26B

DEPTH/ELEV 100.5/-83.8 | TECH. JH

LABORATORY USAE WES - STF/GL | DATE 12 JUL 94

TRIAXIAL COMPRESSION TEST REPORT



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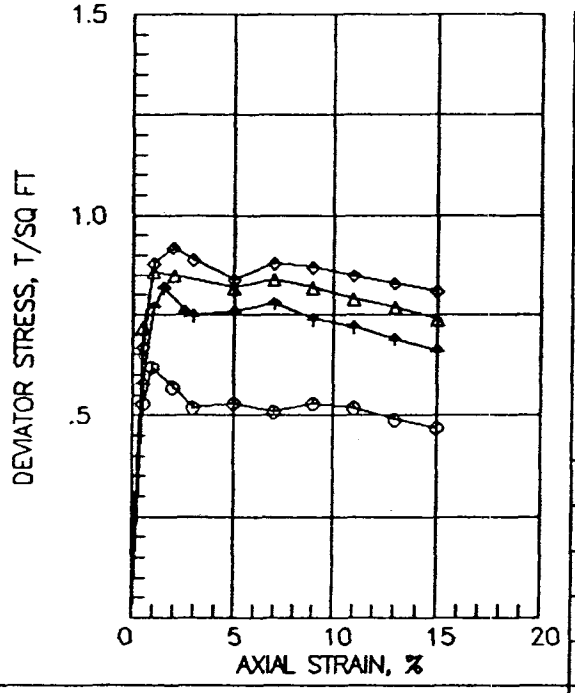


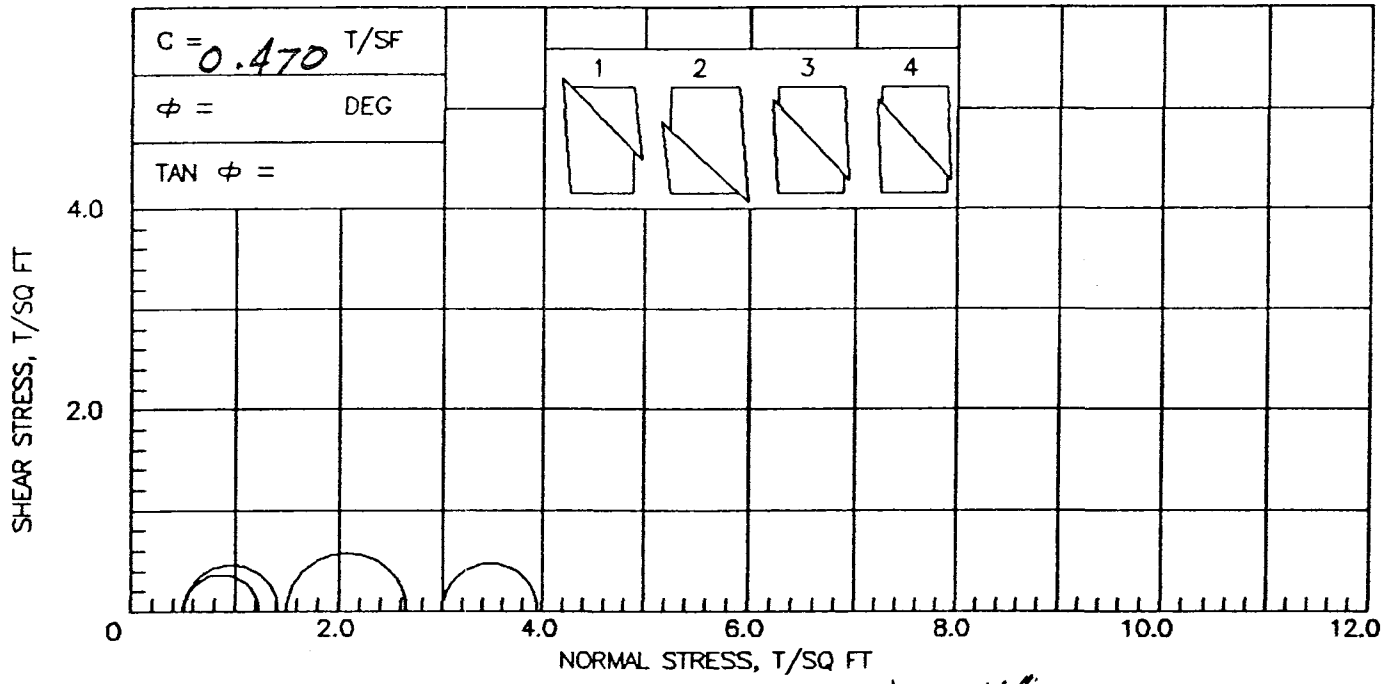
SPECIMEN NO.		○ 1	△ 2	◇ 3	+ 4	
INITIAL	WATER CONTENT, %	39.0	39.5	38.9	39.0	39.10
	DRY DENSITY, PCF	81.7	80.8	81.9	81.6	81.50
	SATURATION, %	99.1	98.3	99.3	98.8	98.80
	VOID RATIO	1.062	1.086	1.058	1.065	
BEFORE SHEAR	WATER CONTENT, %					
	DRY DENSITY, PCF					
	SATURATION, %					
	VOID RATIO					
	BACK PRESSURE, TSF					
CHAMBER PRESSURE, TSF		.50	1.50	3.00	.50	
MAX. DEV. STRESS, TSF		.62	.86	.92	.82	.80
TIME TO FAILURE, MIN.		2	5	16	13	
STRAIN RATE INCR., %			5	5	3	
INITIAL DIAMETER, IN.		1.36	1.36	1.36	1.36	
INITIAL HEIGHT, IN.		3.00	3.00	3.00	3.00	

CONTROLLED-STRAIN TEST

DESCRIPTION OF SPECIMENS: CLAY (CH), GRAY; 1/8" ROOT

LL 75	PL 21	PI 54	GS 2.70 (ESTIMATED)	UNDISTURBED SPECIMEN	Q TEST

REMARKS:	PROJECT INTRACOASTAL WATERWAY LOCKS, LA	
	BAYOU SORREL LOCK	
	BORING NO. 3 BYSU	SAMPLE NO. 4C
	DEPTH/ELEV 13.1/+11.0	TECH. JH
	LABORATORY USAE WES - STF/GL	DATE 12 JUL 94
	TRIAXIAL COMPRESSION TEST REPORT	



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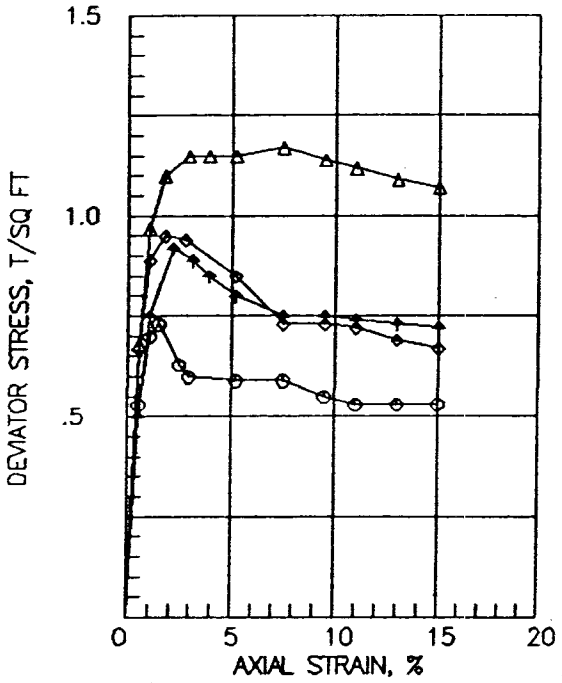


	SPECIMEN NO.	○ 1	△ 2	◇ 3	+ 4	
INITIAL	WATER CONTENT, %	38.7	34.4	41.4	36.2	37.6
	DRY DENSITY, PCF	81.5	86.0	79.0	84.3	82.7
	SATURATION, %	98.0	96.7	98.5	97.7	97.7
	VOID RATIO	1.067	.959	1.134	1.000	
BEFORE SHEAR	WATER CONTENT, %					
	DRY DENSITY, PCF					
	SATURATION, %					
	VOID RATIO					
	BACK PRESSURE, TSF					
CHAMBER PRESSURE, TSF		.50	1.50	3.00	.50	
MAX. DEV. STRESS, TSF		.73	1.15	.95	.92	0.9
TIME TO FAILURE, MIN.		3	16	15	12	
STRAIN RATE INCR., %			5	9		
INITIAL DIAMETER, IN.		1.36	1.36	1.36	1.36	
INITIAL HEIGHT, IN.		3.00	3.00	3.00	3.00	

CONTROLLED-STRAIN TEST

DESCRIPTION OF SPECIMENS: CLAY (CH), GRAY

LL 72	PL 20	PI 52	GS 2.70 (ESTIMATED)	UNDISTURBED SPECIMEN	Q TEST

REMARKS:

PROJECT INTRACOASTAL WATERWAY LOCKS, LA

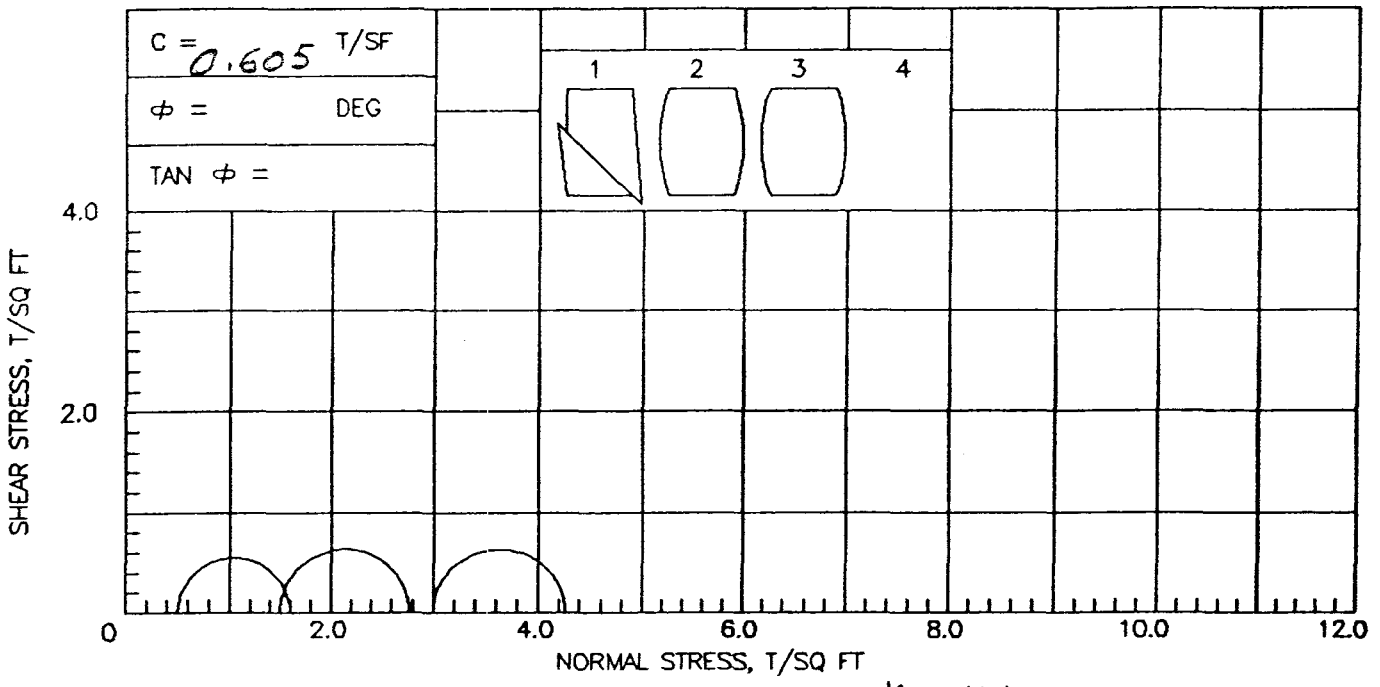
BAYOU SORREL LOCK

BORING NO. 3 BYSU | SAMPLE NO. 5D

DEPTH/ELEV 17.7/+6.4 | TECH. JH

LABORATORY USAE WES - STF/GL | DATE 13 JUL 94

TRIAXIAL COMPRESSION TEST REPORT



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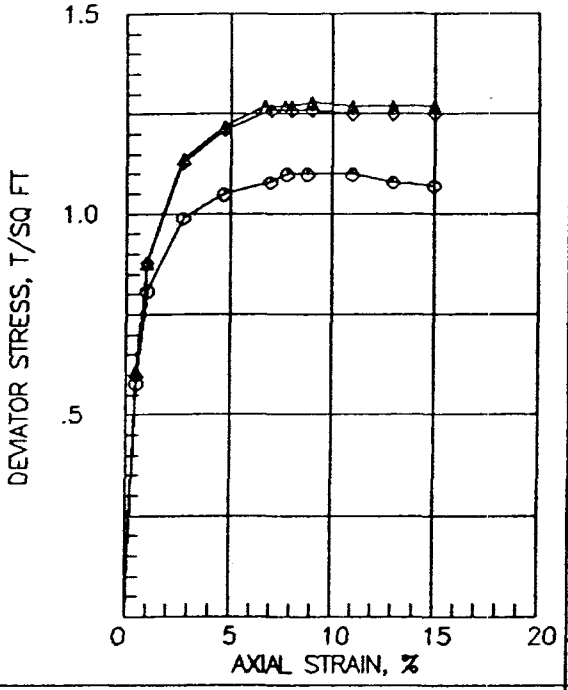


SPECIMEN NO.		○ 1	△ 2	◇ 3	4
INITIAL	WATER CONTENT, %	31.3	30.6	31.2	31.03
	DRY DENSITY, PCF	90.8	91.3	90.7	90.93
	SATURATION, %	98.6	97.6	98.1	98.10
	VOID RATIO	.856	.847	.858	
BEFORE SHEAR	WATER CONTENT, %				
	DRY DENSITY, PCF				
	SATURATION, %				
	VOID RATIO				
	BACK PRESSURE, TSF				
CHAMBER PRESSURE, TSF		.50	1.50	3.00	
MAX. DEV. STRESS, TSF		1.10	1.27	1.26	1.21
TIME TO FAILURE, MIN.		18	15	16	
STRAIN RATE INCR., %					
INITIAL DIAMETER, IN.		1.36	1.36	1.36	
INITIAL HEIGHT, IN.		3.00	3.00	3.00	

CONTROLLED-STRAIN TEST

DESCRIPTION OF SPECIMENS: CLAY (CH), GRAY

LL 68	PL 22	PI 46	GS 2.70 (ESTIMATED)	UNDISTURBED SPECIMEN	Q TEST

REMARKS:

PROJECT INTRACOASTAL WATERWAY LOCKS, LA

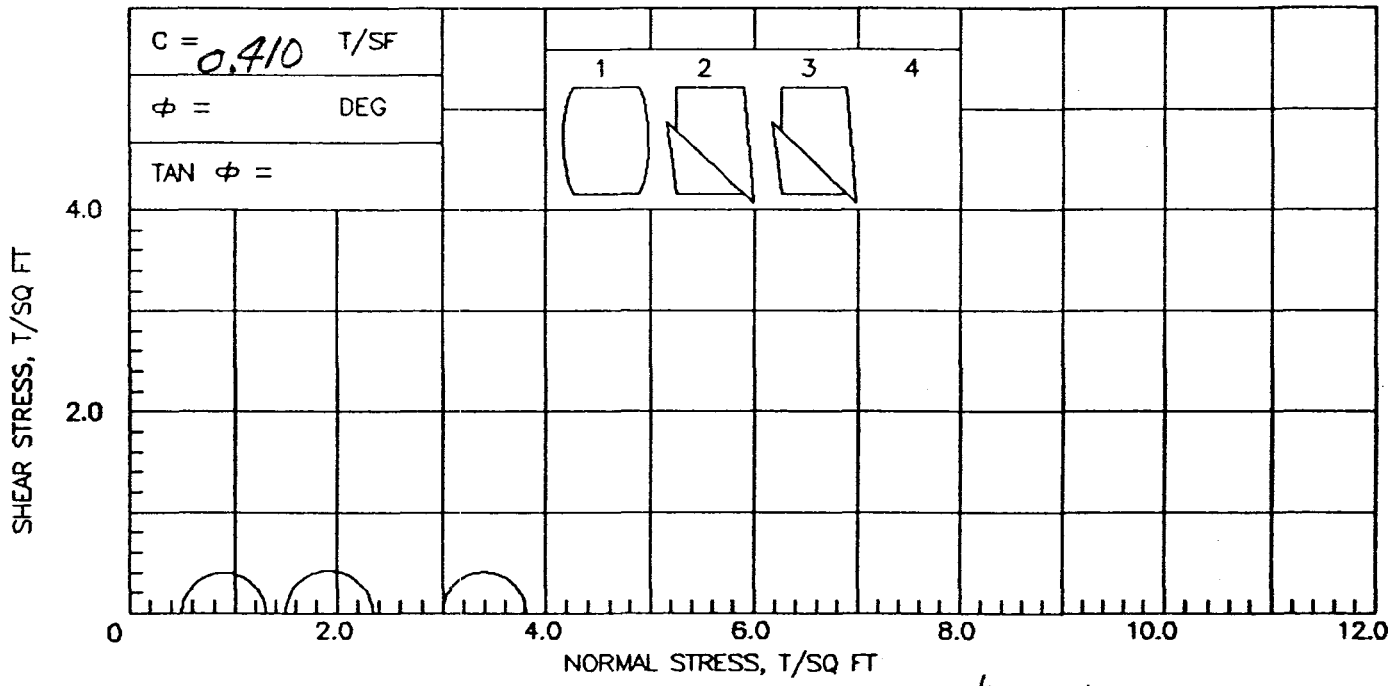
BAYOU SORREL LOCK

BORING NO. 3 BYSU | SAMPLE NO. 6C

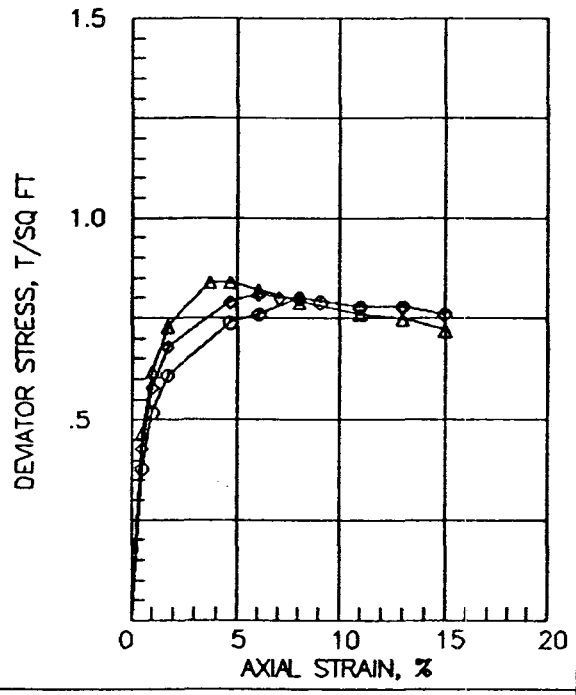
DEPTH/ELEV 21.1/+3.0 | TECH. JH

LABORATORY USAE WES – STF/GL | DATE 13 JUL 94

TRIAXIAL COMPRESSION TEST REPORT



$\phi = 110$



	SPECIMEN NO.	○ 1	△ 2	◇ 3	4
INITIAL	WATER CONTENT, %	45.0	44.0	45.3	44.77
	DRY DENSITY, PCF	76.2	76.7	75.5	76.13
	SATURATION, %	100+	99.1	99.3	100
	VOID RATIO	1.211	1.198	1.232	
BEFORE SHEAR	WATER CONTENT, %				
	DRY DENSITY, PCF				
	SATURATION, %				
	VOID RATIO				
	BACK PRESSURE, TSF				
CHAMBER PRESSURE, TSF		.50	1.50	3.00	
MAX. DEV. STRESS, TSF		.80	.84	.81	0.82
TIME TO FAILURE, MIN.		19	8	33	
STRAIN RATE INCR., %					
INITIAL DIAMETER, IN.		1.36	1.36	1.37	
INITIAL HEIGHT, IN.		3.00	3.00	3.00	

CONTROLLED-STRAIN TEST

DESCRIPTION OF SPECIMENS: CLAY (CH), GRAY

LL 93	PL 23	PI 70	GS 2.70 (ESTIMATED)	UNDISTURBED SPECIMEN	Q TEST

REMARKS:

PROJECT INTRACOASTAL WATERWAY LOCKS, LA

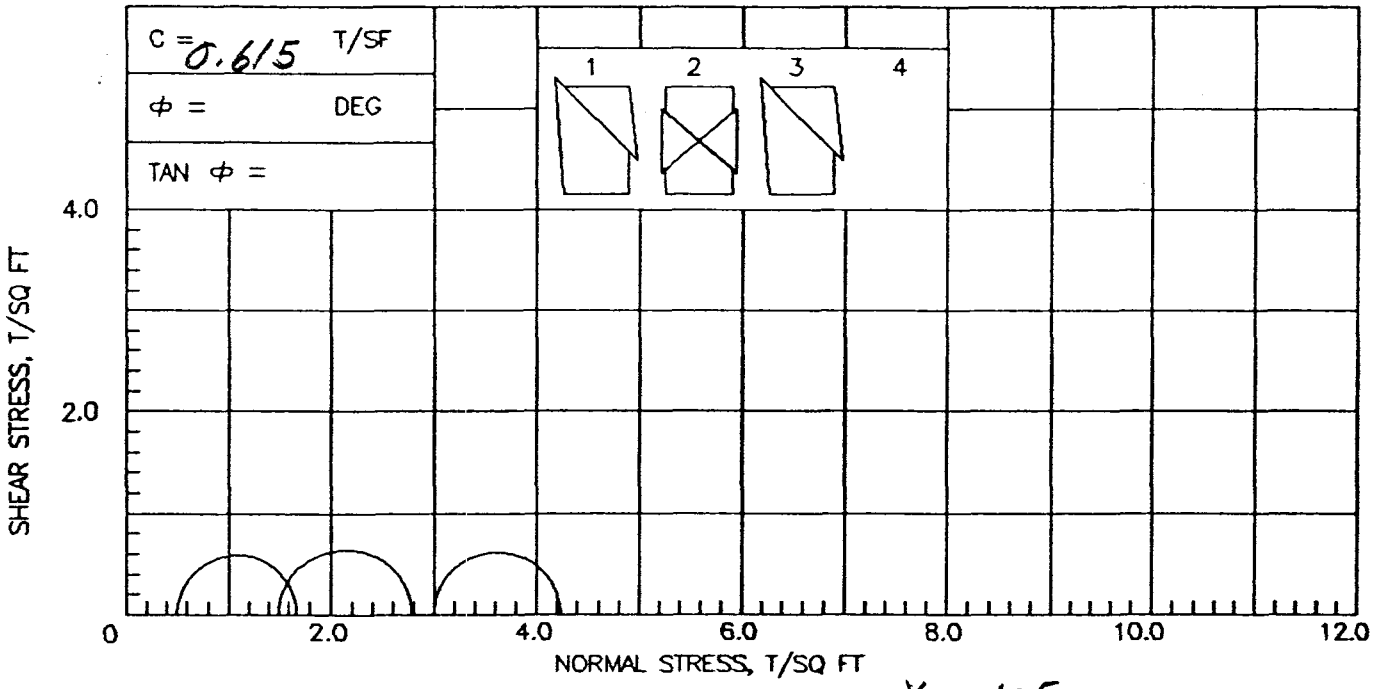
BAYOU SORREL LOCK

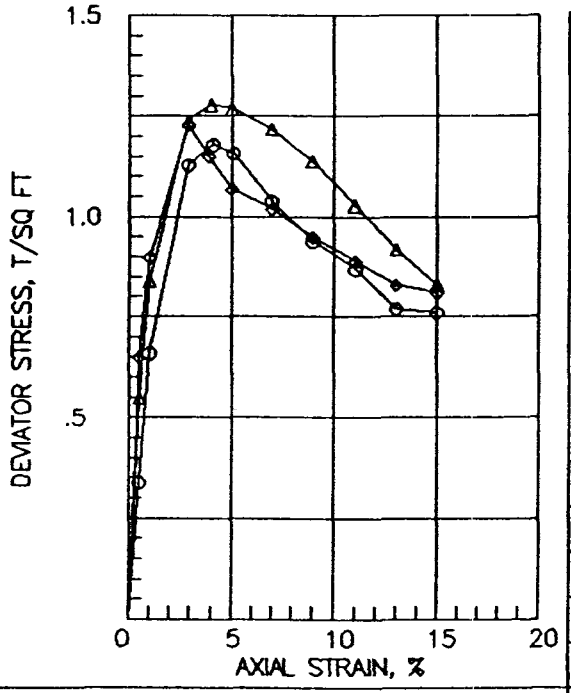
BORING NO. 3 BYSU | SAMPLE NO. 10B

DEPTH/ELEV 36.1/-12.0 | TECH. JH

LABORATORY USAE WES - STF/GL | DATE 14 JUL 94

TRIAXIAL COMPRESSION TEST REPORT





γ = 105

SPECIMEN NO.		○ 1	△ 2	◇ 3	4
INITIAL	WATER CONTENT, %	54.3	54.5	54.8	54.53
	DRY DENSITY, PCF	67.9	67.9	67.6	67.80
	SATURATION, %	99.0	99.1	99.2	99.00
	VOID RATIO	1.481	1.484	1.493	
BEFORE SHEAR	WATER CONTENT, %				
	DRY DENSITY, PCF				
	SATURATION, %				
	VOID RATIO				
	BACK PRESSURE, TSF				
CHAMBER PRESSURE, TSF		.50	1.50	3.00	
MAX. DEV. STRESS, TSF		1.18	1.28	1.23	1.23
TIME TO FAILURE, MIN.		9	22	16	
STRAIN RATE INCR., %				5	
INITIAL DIAMETER, IN.		1.36	1.36	1.36	
INITIAL HEIGHT, IN.		3.00	3.00	3.00	

CONTROLLED-STRAIN TEST

DESCRIPTION OF SPECIMENS: CLAY (CH), GRAY; FRACTURED

LL 88	PL 25	PI 63	GS 2.70 (ESTIMATED)	UNDISTURBED SPECIMEN	Q TEST

REMARKS:

PROJECT INTRACOASTAL WATERWAY LOCKS, LA

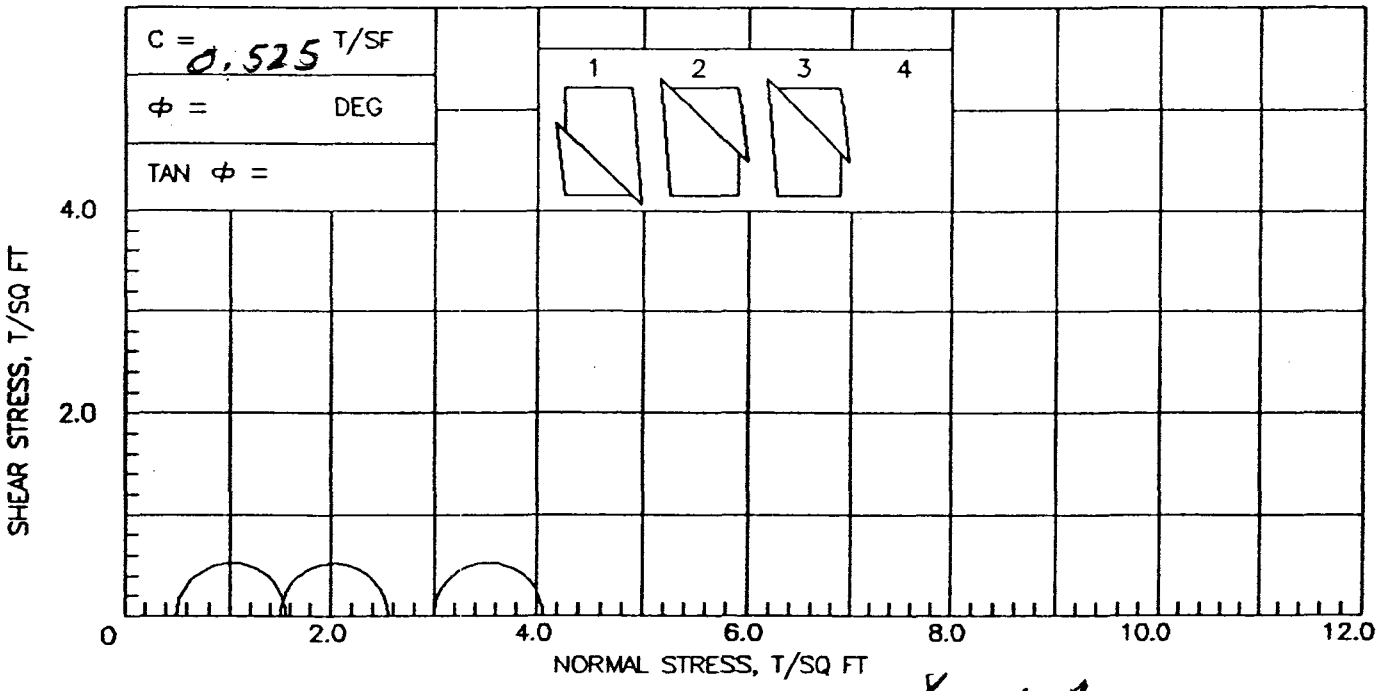
BAYOU SORREL LOCK

BORING NO. 3 BYSU | SAMPLE NO. 19B

DEPTH/ELEV 71.5/-47.4 | TECH. JH

LABORATORY USAE WES - STF/GL | DATE 15 JUL 94

TRIAXIAL COMPRESSION TEST REPORT



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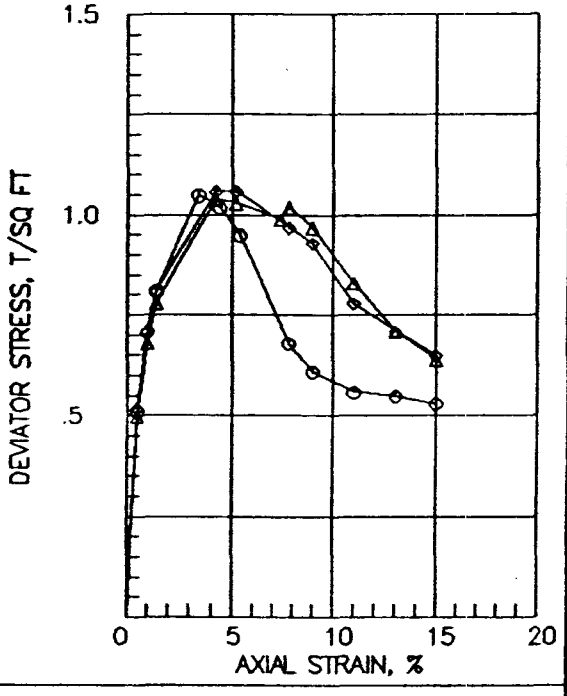


SPECIMEN NO.		○ 1	△ 2	◇ 3	4
INITIAL	WATER CONTENT, %	55.2	55.3	54.7	55.67
	DRY DENSITY, PCF	66.9	66.8	67.0	66.90
	SATURATION, %	98.0	97.9	97.4	97.77
	VOID RATIO	1.521	1.524	1.515	
BEFORE SHEAR	WATER CONTENT, %				
	DRY DENSITY, PCF				
	SATURATION, %				
	VOID RATIO				
	BACK PRESSURE, TSF				
CHAMBER PRESSURE, TSF		.50	1.50	3.00	
MAX. DEV. STRESS, TSF		1.05	1.04	1.06	1.05
TIME TO FAILURE, MIN.		8	23	23	
STRAIN RATE INCR., %			7	7	
INITIAL DIAMETER, IN.		1.37	1.37	1.37	
INITIAL HEIGHT, IN.		3.00	3.00	3.00	

CONTROLLED-STRAIN TEST

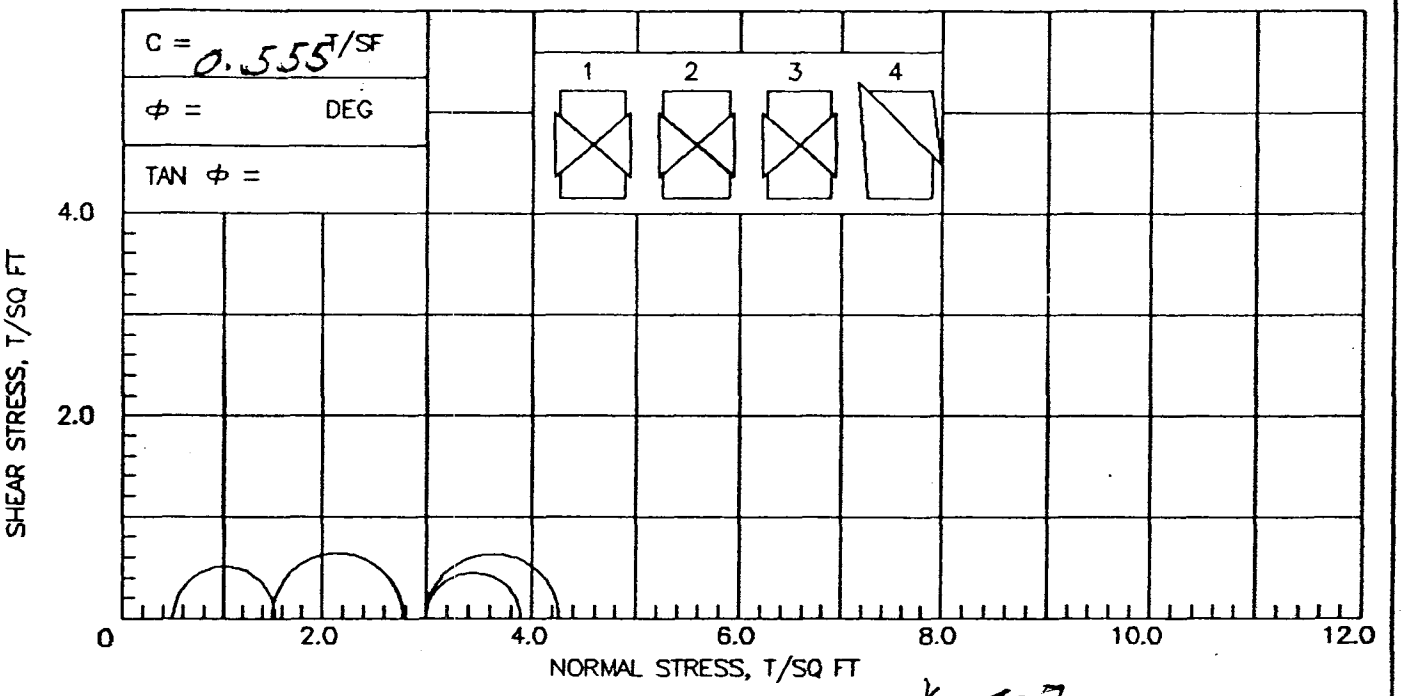
DESCRIPTION OF SPECIMENS: CLAY (CH), GRAY

LL 93	PL 24	PI 69	GS 2.70 (ESTIMATED)	UNDISTURBED SPECIMEN	Q TEST

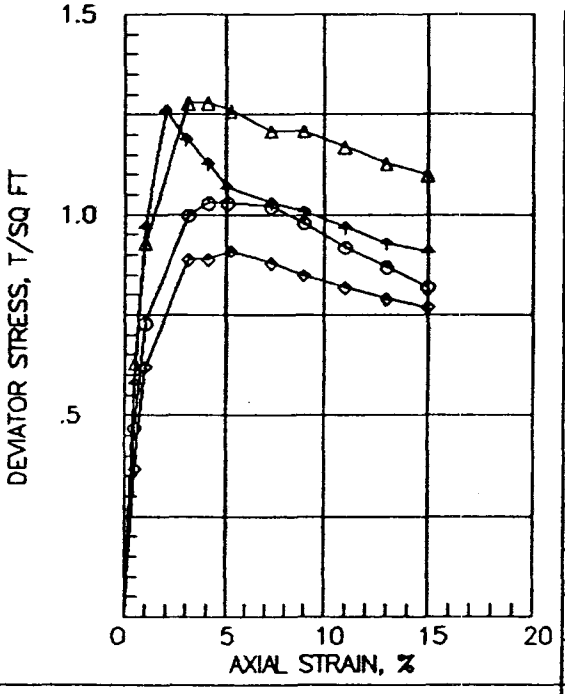
REMARKS:

PROJECT	INTRACOASTAL WATERWAY LOCKS, LA
	BAYOU SORREL LOCK
BORING NO. 3 BYSU	SAMPLE NO. 21B
DEPTH/ELEV 80.1/-56.0	TECH. JH
LABORATORY USAE WES - STF/GL	DATE 18 JUL 94

TRIAXIAL COMPRESSION TEST REPORT



γ=107



	SPECIMEN NO.	○ 1	△ 2	◇ 3	+ 4	
INITIAL	WATER CONTENT, %	48.6	47.8	54.0	48.9	49.8
	DRY DENSITY, PCF	71.6	72.7	67.6	72.9	71.2
	SATURATION, %	97.0	97.9	97.4	100+	98.0
	VOID RATIO	1.353	1.320	1.495	1.313	
BEFORE SHEAR	WATER CONTENT, %					
	DRY DENSITY, PCF					
	SATURATION, %					
	VOID RATIO					
	BACK PRESSURE, TSF					
CHAMBER PRESSURE, TSF		.50	1.50	3.00	3.00	
MAX. DEV. STRESS, TSF		1.03	1.28	.89	1.26	
TIME TO FAILURE, MIN.		9	9	17	11	
STRAIN RATE INCR., %			7	4		
INITIAL DIAMETER, IN.		1.37	1.37	1.37	1.36	
INITIAL HEIGHT, IN.		3.00	3.00	3.00	3.00	

CONTROLLED-STRAIN TEST

DESCRIPTION OF SPECIMENS: CLAY (CH), GRAY

LL 88	PL 26	PI 62	GS 2.70 (ESTIMATED)	UNDISTURBED SPECIMEN	Q TEST

REMARKS:

PROJECT INTRACOASTAL WATERWAY LOCKS, LA

BAYOU SORREL LOCK

BORING NO. 3 BYSU | SAMPLE NO. 29B

DEPTH/ELEV 112.1/-88.0 | TECH. JH

LABORATORY USAE WES - STF/GL | DATE 18 JUL 94

TRIAXIAL COMPRESSION TEST REPORT