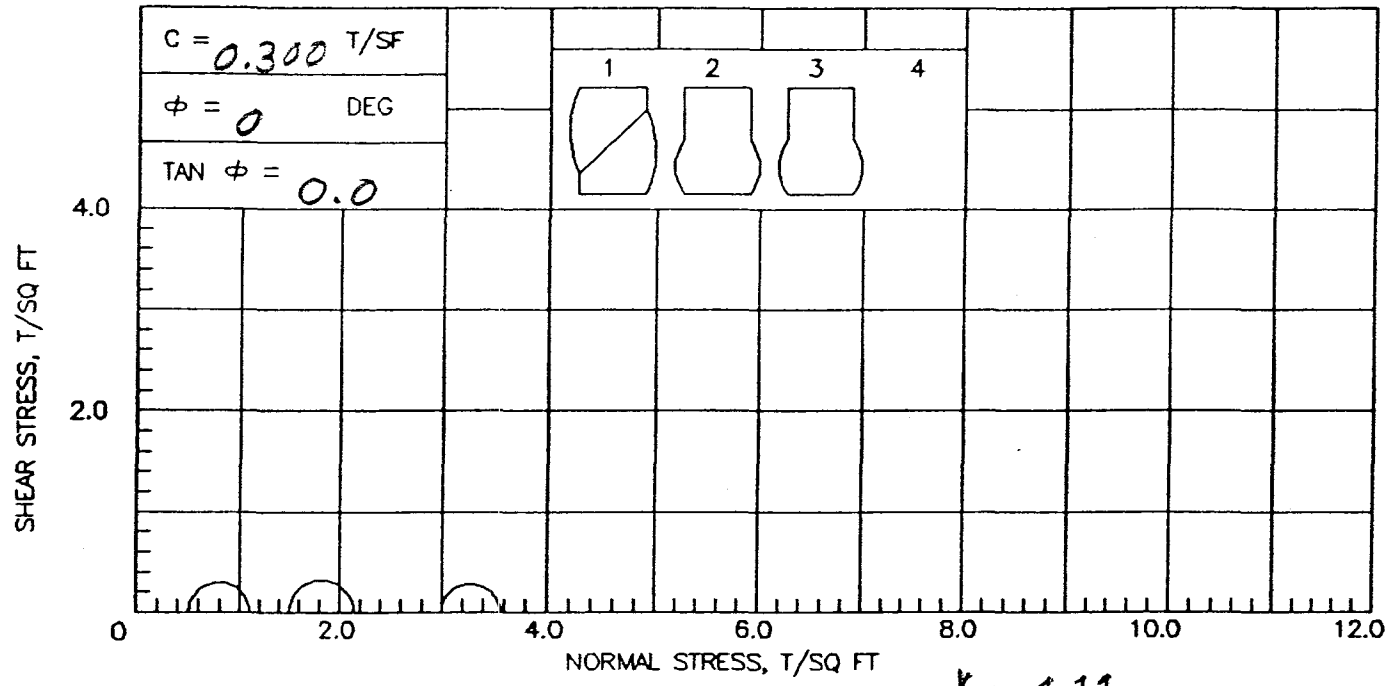
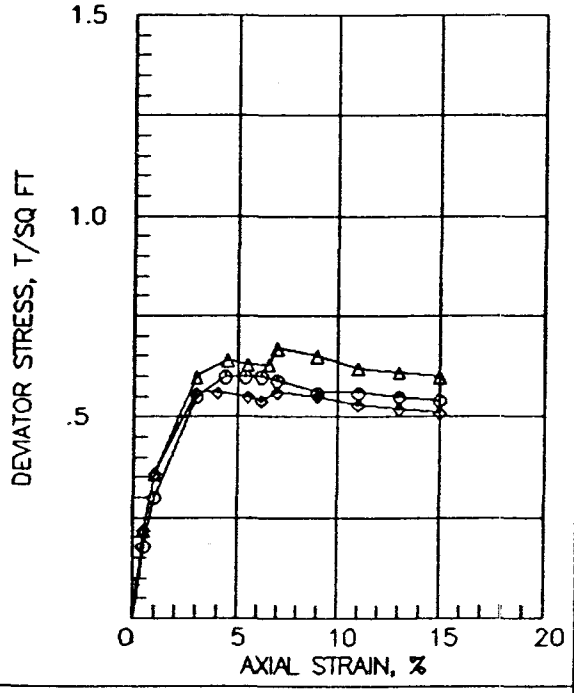


γ = 111



SPECIMEN NO.		○ 1	△ 2	◇ 3	4
INITIAL	WATER CONTENT, %	40.8	43.8	46.4	43.67
	DRY DENSITY, PCF	79.8	77.1	74.5	77.13
	SATURATION, %	99.0	99.7	99.3	99.33
	VOID RATIO	1.113	1.187	1.261	
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	.64	.56	.65
TIME TO FAILURE, MIN.		10	20	10	
STRAIN RATE INCR., %			6	6	
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 (CL), GRAY

LL 48	PL 19	PI 29	GS 2.70 (ESTIMATED)	UNDISTURBED SPECIMEN	Q TEST

REMARKS:

PROJECT INTRACOASTAL WATERWAY LOCKS, LA

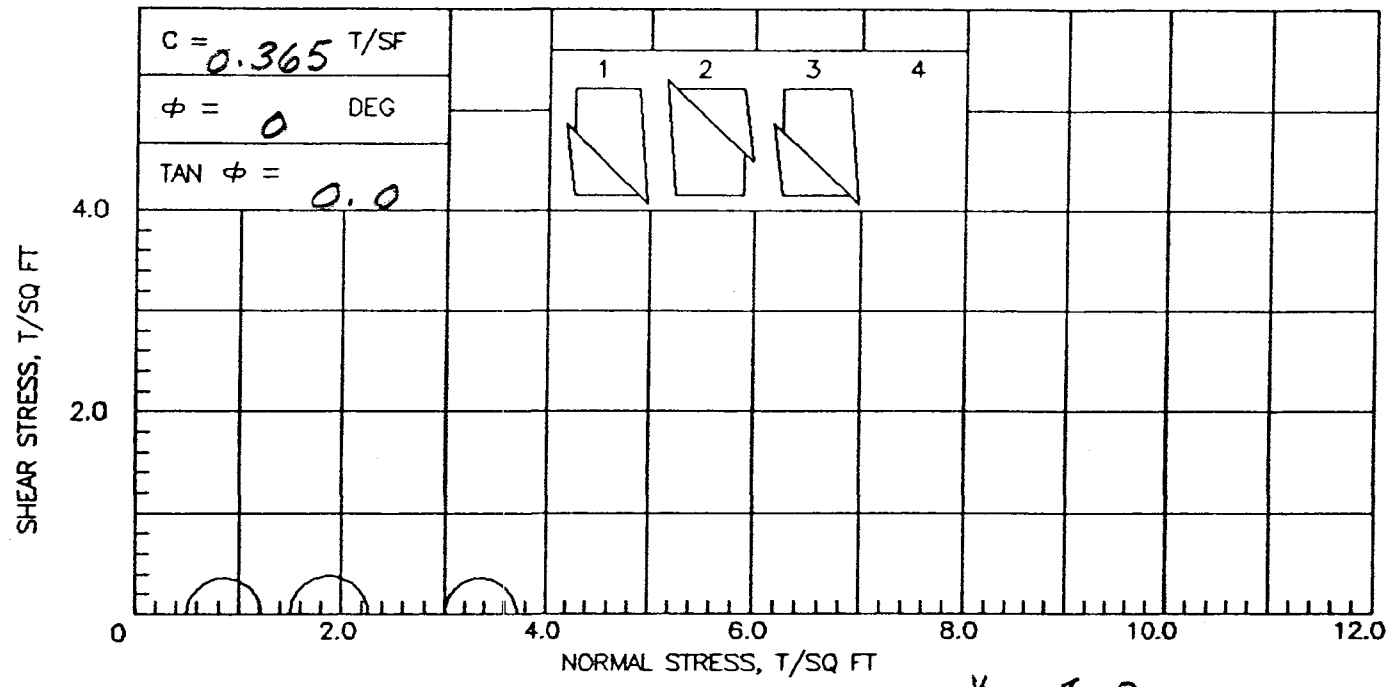
BAYOU SORREL LOCK

BORING NO. 5 BYSU | SAMPLE NO. 11C

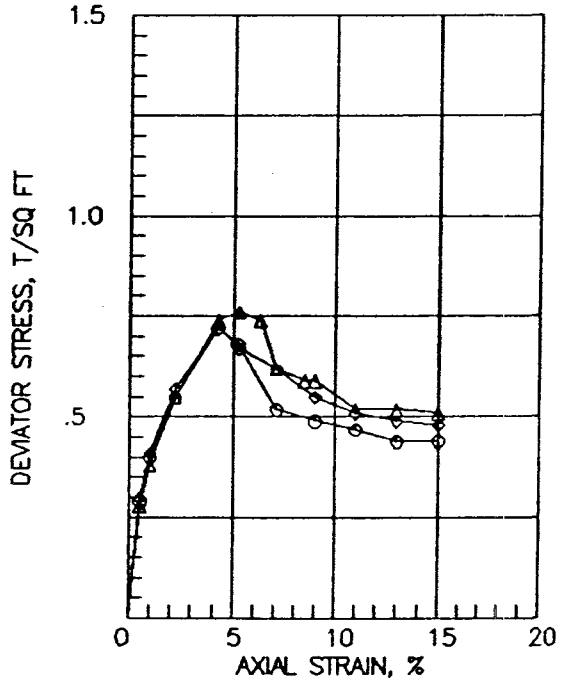
DEPTH/ELEV 41.3 / -33.3 | TECH. JH

LABORATORY USAE WES - STF/GL | DATE 02 AUG 94

TRIAXIAL COMPRESSION TEST REPORT



γ = 102



SPECIMEN NO.		○ 1	△ 2	◇ 3	4
INITIAL	WATER CONTENT, %	62.8	61.8	62.1	62.23
	DRY DENSITY, PCF	62.7	63.2	63.2	63.03
	SATURATION, %	100+	100+	100+	
	VOID RATIO	1.687	1.665	1.669	
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		.72	.76	.72	.73
TIME TO FAILURE, MIN.		10	18	13	
STRAIN RATE INCR., %			8	7	
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 23	PI 62	GS 2.70 (ESTIMATED)	UNDISTURBED SPECIMEN	Q TEST

REMARKS:

PROJECT INTRACOASTAL WATERWAY LOCKS, LA

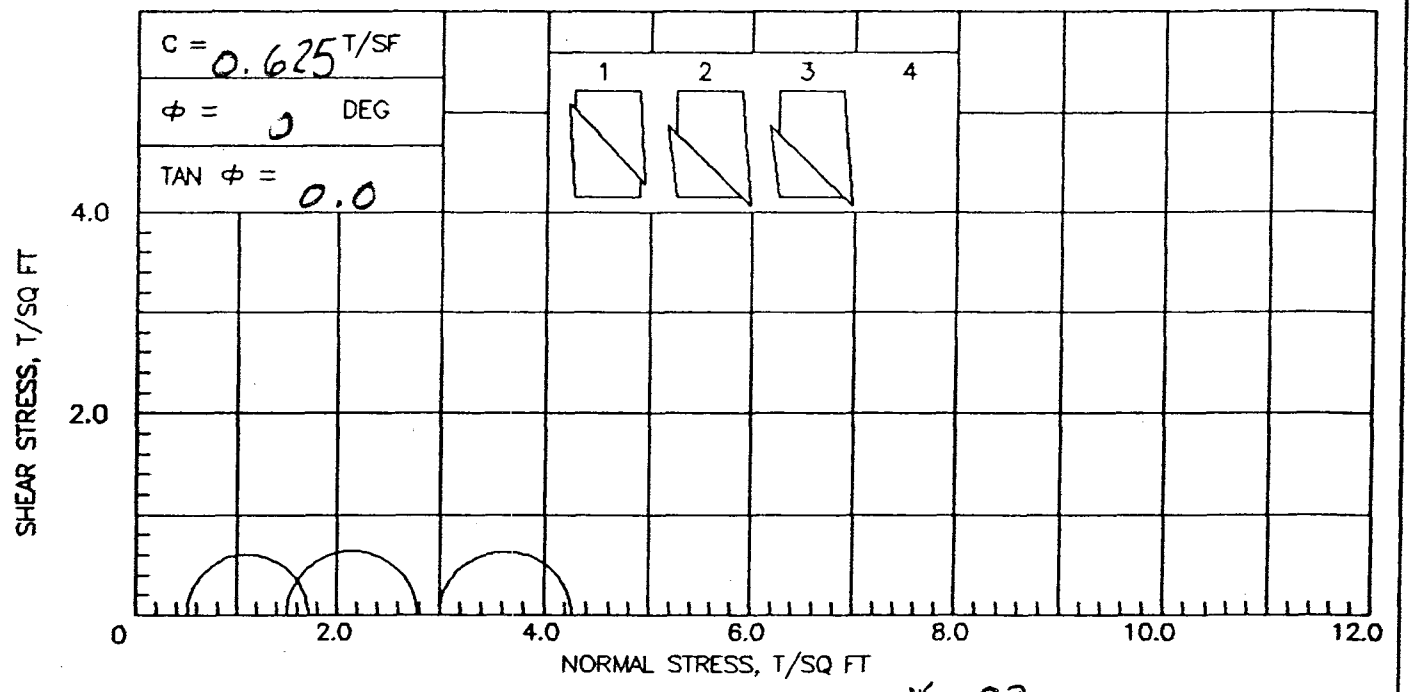
BAYOU SORREL LOCK

BORING NO. 5 BYSU | SAMPLE NO. 15B

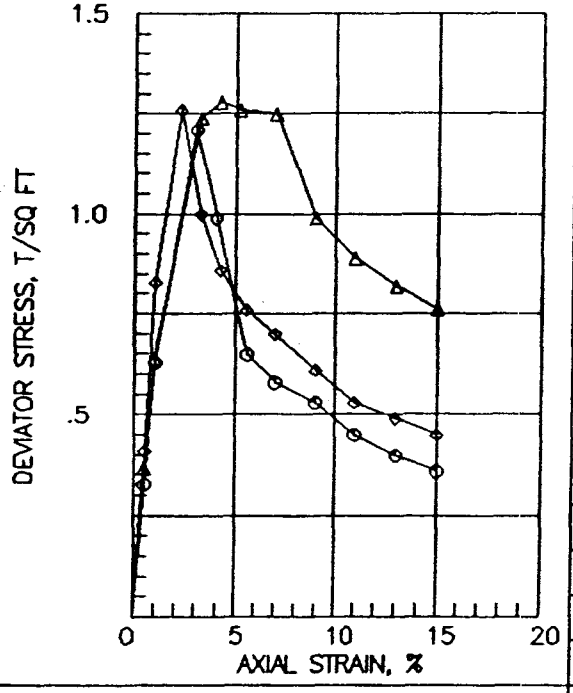
DEPTH/ELEV 55.8 / -47.8 | TECH. JH

LABORATORY USAE WES - STF/GL | DATE 03 AUG 94

TRIAXIAL COMPRESSION TEST REPORT



γ = 83



SPECIMEN NO.		○ 1	△ 2	◇ 3	4
INITIAL	WATER CONTENT, %	127.7	129.0	111.4	122.7
	DRY DENSITY, PCF	35.9	35.8	40.4	37.32
	SATURATION, %	93.3	93.8	94.8	93.92
	VOID RATIO	3.696	3.714	3.171	
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		1.21	1.28	1.26	1.25
TIME TO FAILURE, MIN.		6	17	10	
STRAIN RATE INCR., %			5		
INITIAL DIAMETER, IN.		1.36	1.37	1.36	
INITIAL HEIGHT, IN.		3.00	3.00	3.00	

CONTROLLED-STRAIN TEST

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

LL 192	PL 59	PI 133	GS 2.70 (ESTIMATED)	UNDISTURBED SPECIMEN	Q TEST

REMARKS:

PROJECT INTRACOASTAL WATERWAY LOCKS, LA

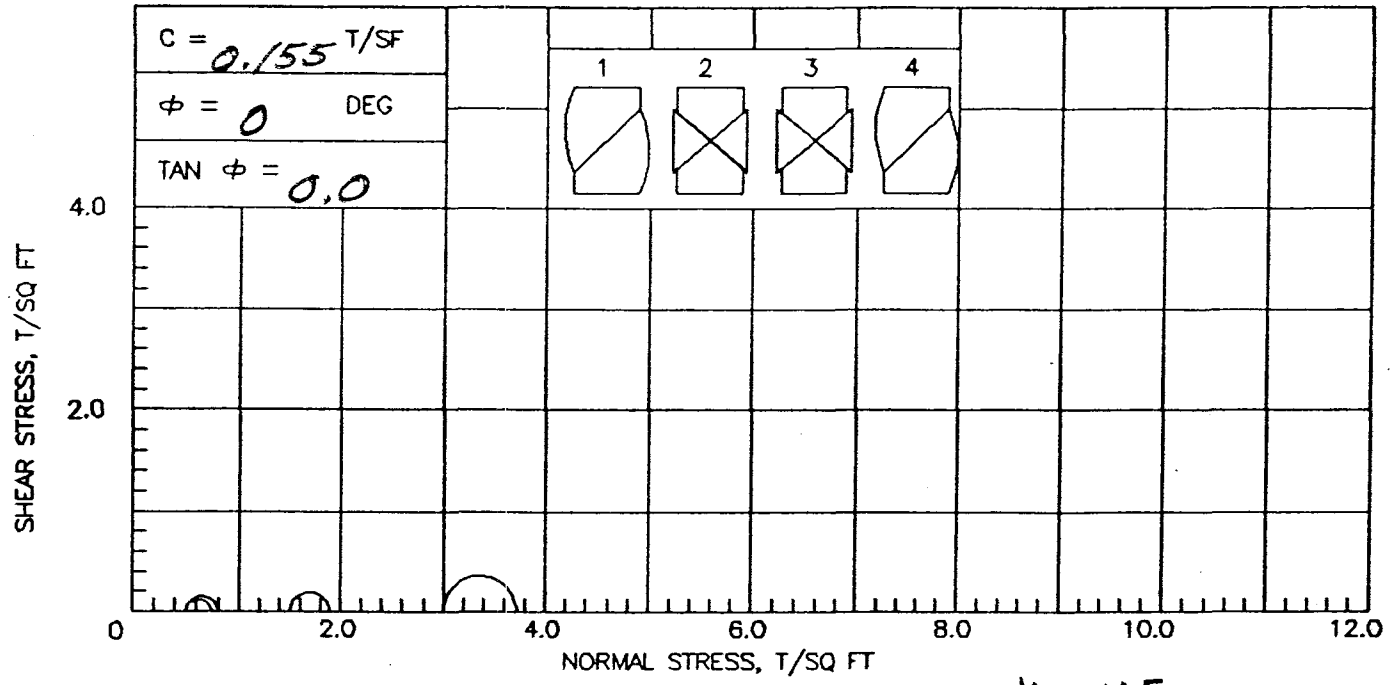
BAYOU SORREL LOCK

BORING NO. 5 BYSU — SAMPLE NO. 17C

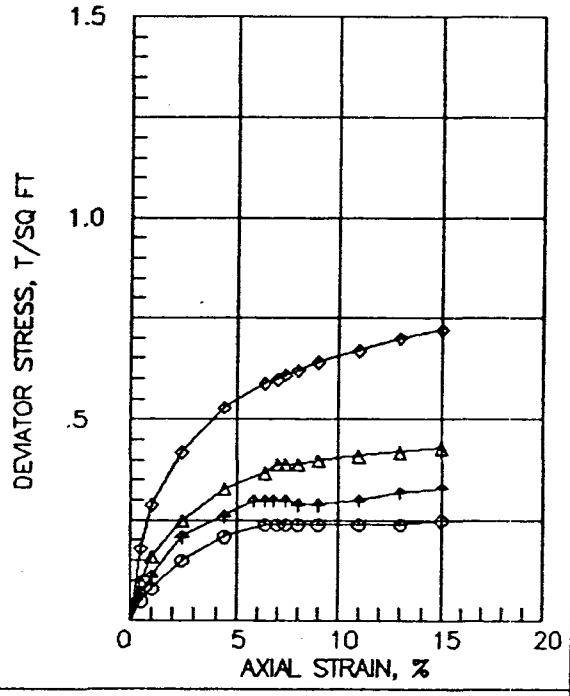
DEPTH/ELEV 64.9/-56.9 — TECH. JH

LABORATORY USAE WES - STF/GL — DATE 03 AUG 94

TRIAXIAL COMPRESSION TEST REPORT



γ = 115



	SPECIMEN NO.	○ 1	△ 2	◇ 3	↑ 4	
INITIAL	WATER CONTENT, %	41.3	33.3	~~29.3~~	35.1	36.56
	DRY DENSITY, PCF	78.5	86.4	~~89.6~~	83.7	82.86
	SATURATION, %	97.2	94.5	~~89.8~~	93.3	95.00
	VOID RATIO	1.148	.952	~~.882~~	1.014	
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		.24	.39	~~.72~~	.30	.31
TIME TO FAILURE, MIN.		14	24	~~51~~	20	
STRAIN RATE INCR., %						
INITIAL DIAMETER, IN.		1.37	1.37	1.37	1.39	
INITIAL HEIGHT, IN.		3.00	3.00	3.00	3.00	

CONTROLLED-STRAIN TEST

DESCRIPTION OF SPECIMENS: CLAY (CL), GRAY; FRIABLE; CONCRETIONS

LL 48	PL 17	PI 31	GS 2.70 (ESTIMATED)	UNDISTURBED SPECIMEN	Q TEST

REMARKS:

PROJECT INTRACOASTAL WATERWAY LOCKS, LA

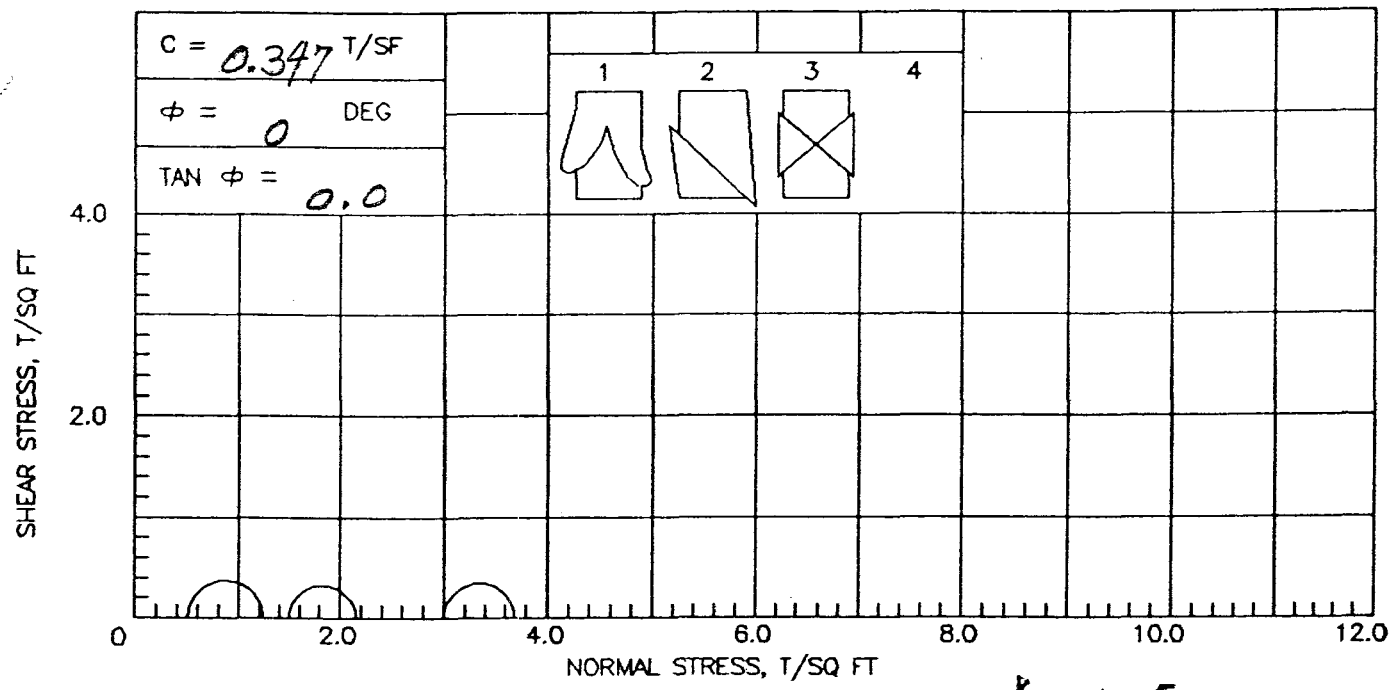
BAYOU SORREL LOCK

BORING NO. 6BYSU — SAMPLE NO. 2B

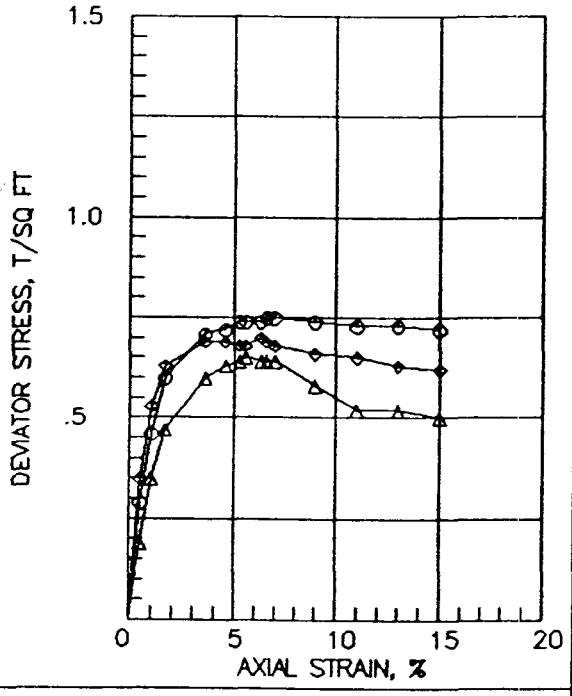
DEPTH/ELEV 5.0/-3.9 — TECH. JH

LABORATORY USAE WES - STF/GL — DATE 25 APR 95

TRIAXIAL COMPRESSION TEST REPORT



$\gamma = 105$



	SPECIMEN NO.	○ 1	△ 2	◇ 3	4
INITIAL	WATER CONTENT, %	48.5	49.8	51.9	50.07
	DRY DENSITY, PCF	69.5	66.9	67.7	68.03
	SATURATION, %	91.9	88.6	94.2	91.57
	VOID RATIO	1.426	1.519	1.488	
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		.74	.65	.69	.69
TIME TO FAILURE, MIN.		11	18	12	
STRAIN RATE INCR., %				5	
INITIAL DIAMETER, IN.		1.38	1.38	1.38	
INITIAL HEIGHT, IN.		3.00	3.00	3.00	

CONTROLLED-STRAIN TEST

DESCRIPTION OF SPECIMENS: CLAY (CH), GRAY; SLICKENSIDED; FRIABLE

LL 75	PL 23	PI 52	GS 2.70 (ESTIMATED)	UNDISTURBED SPECIMEN	Q TEST

REMARKS:

PROJECT INTRACOASTAL WATERWAY LOCKS, LA

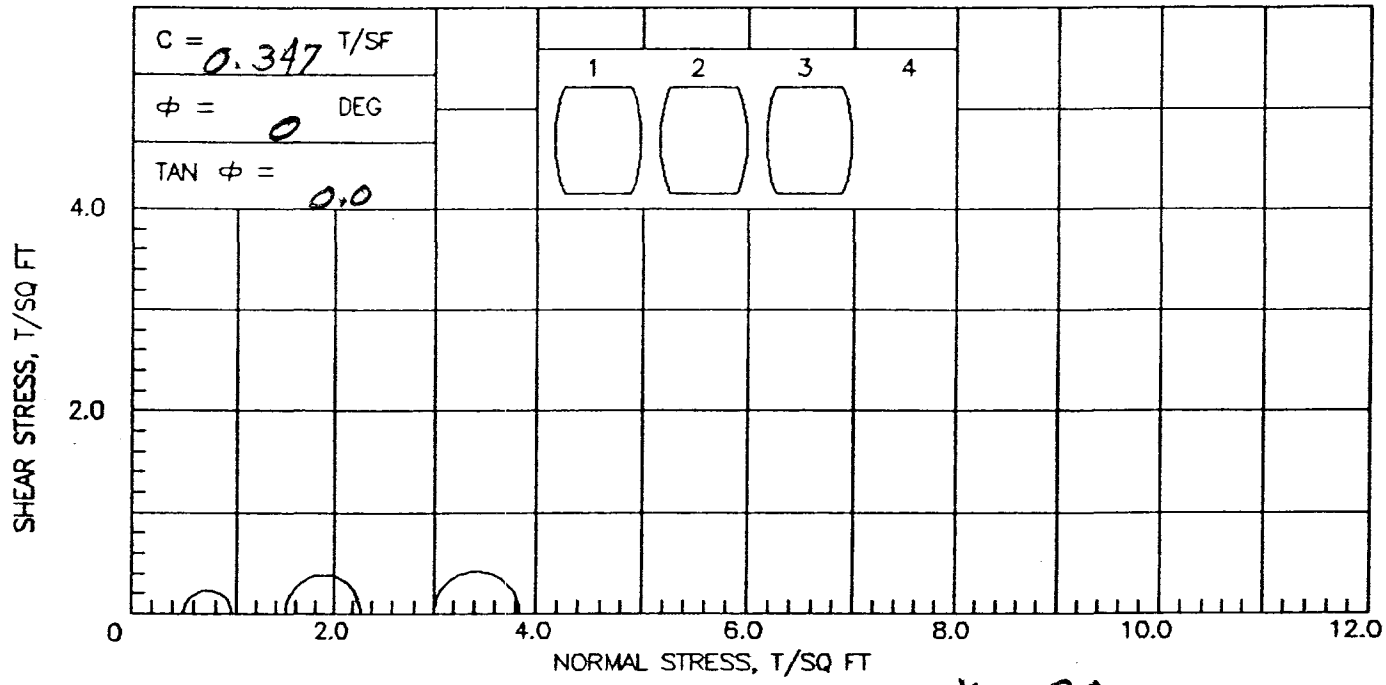
BAYOU SORREL LOCK

BORING NO. 6BYSU — SAMPLE NO. 5B

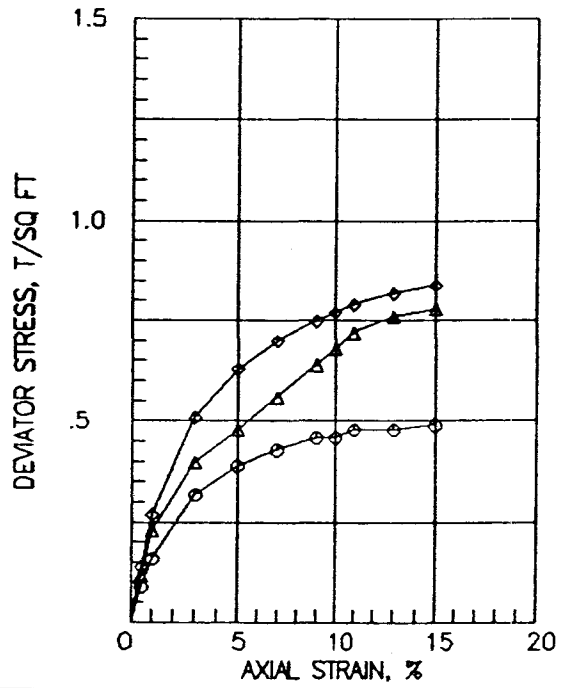
DEPTH/ELEV 16.5/-15.4 — TECH. JH

LABORATORY USAE WES - STF/GL — DATE 26 APR 95

TRIAXIAL COMPRESSION TEST REPORT



γ = 80



SPECIMEN NO.		○ 1	△ 2	◇ 3	4
INITIAL	WATER CONTENT, %	161.9	153.8	144.9	153.53
	DRY DENSITY, PCF	28.9	30.1	31.8	30.27
	SATURATION, %	93.0	92.9	93.8	93.23
	VOID RATIO	4.177	3.973	3.706	
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		.46	.78	.84	.69
TIME TO FAILURE, MIN.		19	32	32	
STRAIN RATE INCR., %					
INITIAL DIAMETER, IN.		1.37	1.38	1.38	
INITIAL HEIGHT, IN.		3.00	3.00	3.00	

CONTROLLED-STRAIN TEST

DESCRIPTION OF SPECIMENS: ORGANIC CLAY (OH), BLACK

LL 190	PL 86	PI 104	GS 2.40 (ESTIMATED)	UNDISTURBED SPECIMEN	Q TEST

REMARKS:

PROJECT INTRACOASTAL WATERWAY LOCKS, LA

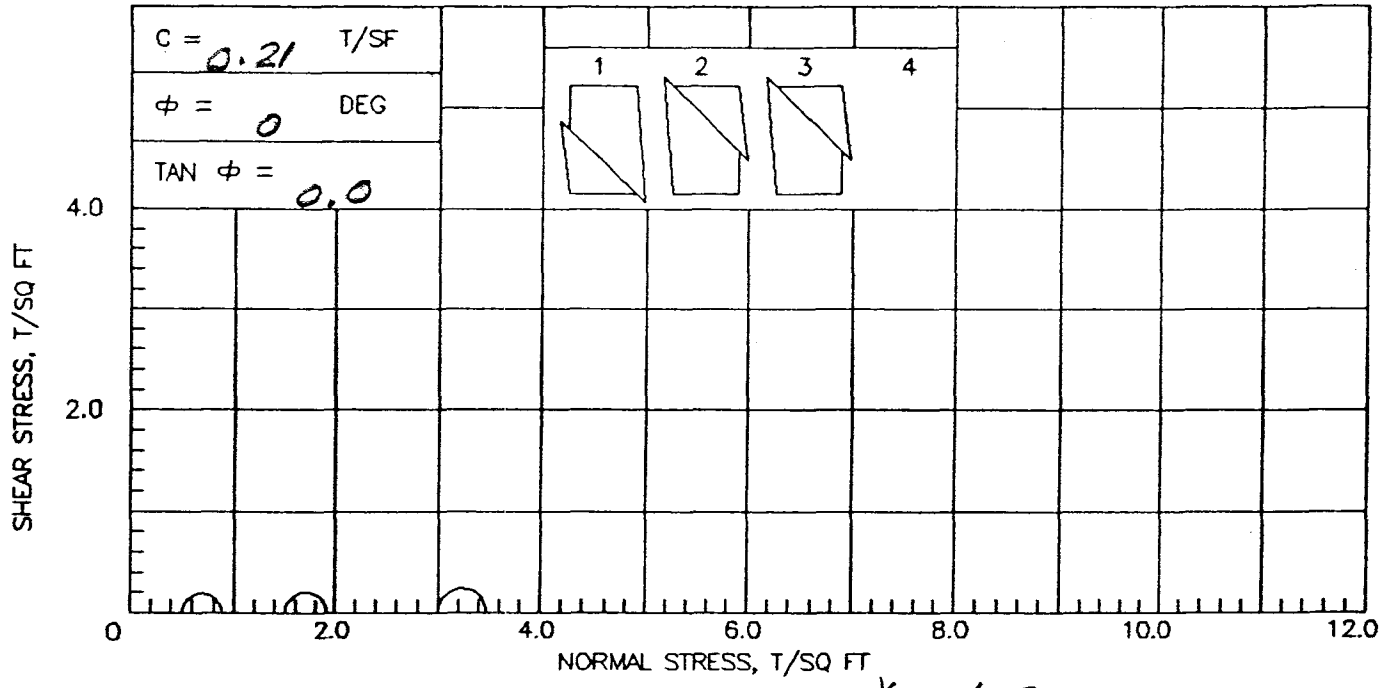
BAYOU SORREL LOCK

BORING NO. 6BYSU | SAMPLE NO. 6C

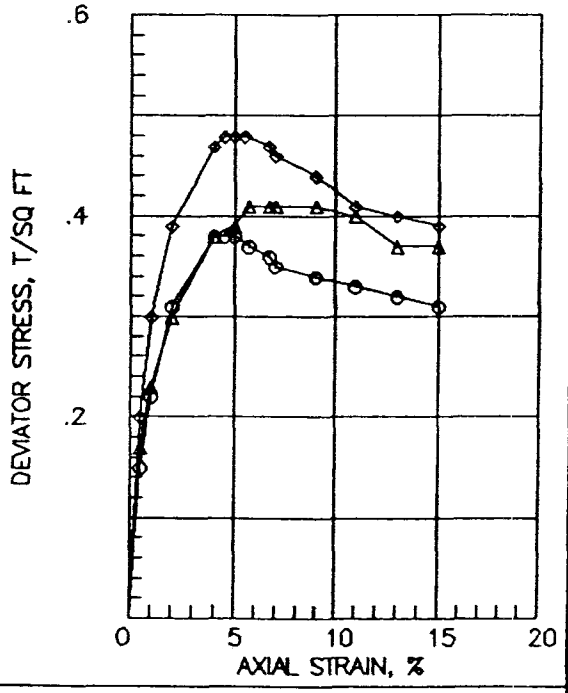
DEPTH/ELEV 21.3/-20.2 | TECH. JH

LABORATORY USAE WES - STF/GL | DATE 26 APR 95

TRIAXIAL COMPRESSION TEST REPORT



$\gamma = 102$



SPECIMEN NO.		○ 1	△ 2	◇ 3	4
INITIAL	WATER CONTENT, %	61.4	60.8	62.3	61.50
	DRY DENSITY, PCF	63.0	63.3	62.5	62.93
	SATURATION, %	99.0	98.7	99.0	93.70
	VOID RATIO	1.674	1.662	1.698	
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		.38	.41	.48	.42
TIME TO FAILURE, MIN.		9	29	23	
STRAIN RATE INCR., %					
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 82	PL 22	PI 60	GS 2.70 (ESTIMATED)	UNDISTURBED SPECIMEN	Q TEST

REMARKS:

PROJECT INTRACOASTAL WATERWAY LOCKS, LA

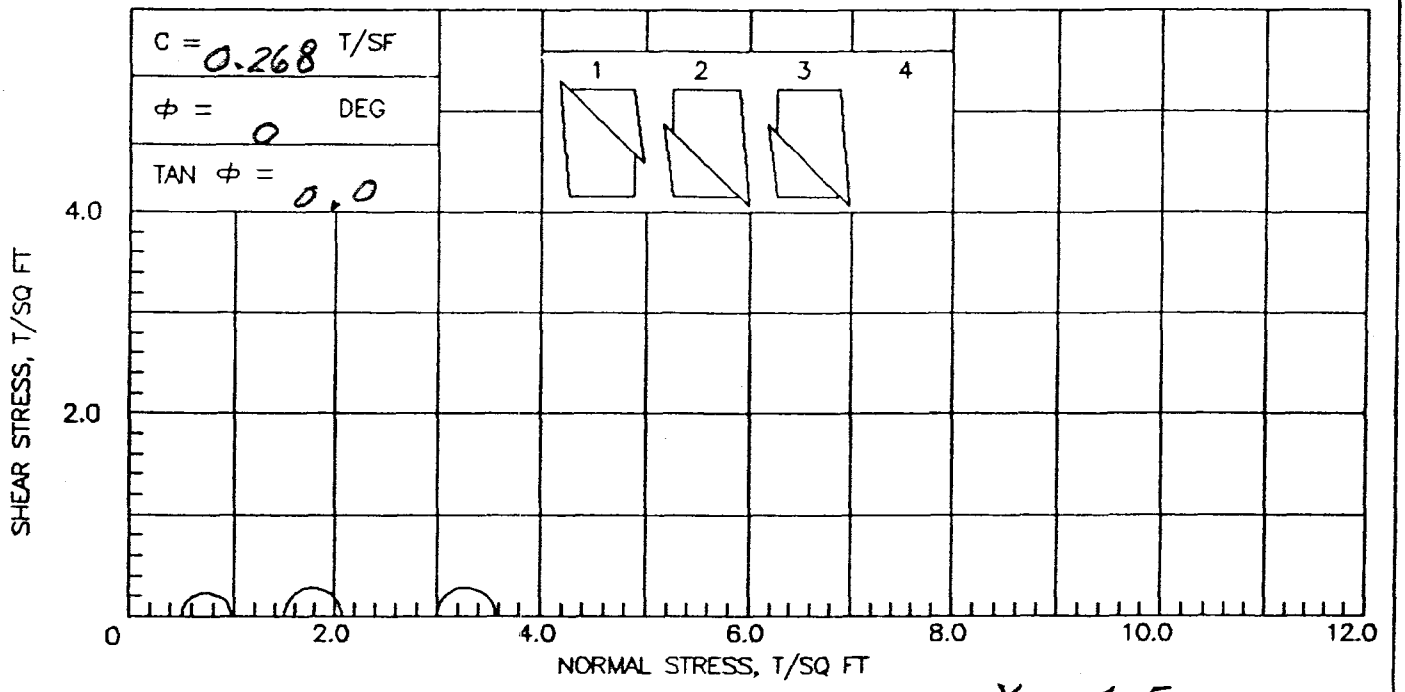
BAYOU SORREL LOCK

BORING NO. 6BYSU | SAMPLE NO. 8D

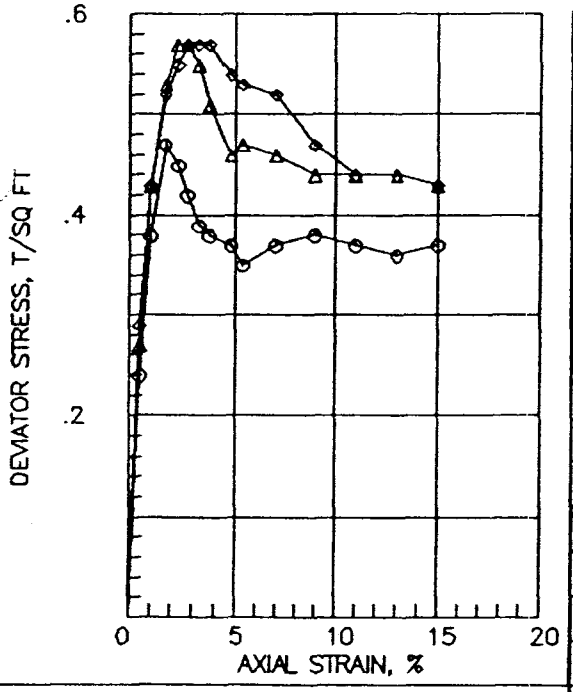
DEPTH/ELEV 29.8/-28.7 | TECH. JH

LABORATORY USAE WES - STF/GL | DATE 01 MAY 95

TRIAXIAL COMPRESSION TEST REPORT



γ = 105



SPECIMEN NO.		○ 1	△ 2	◇ 3	4
INITIAL	WATER CONTENT, %	53.6	54.3	54.2	54.03
	DRY DENSITY, PCF	67.9	67.4	67.8	67.79
	SATURATION, %	97.5	97.7	98.4	97.87
	VOID RATIO	1.484	1.502	1.487	
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		.47	.57	.57	.54
TIME TO FAILURE, MIN.		4	14	16	
STRAIN RATE INCR., %			4	5	
INITIAL DIAMETER, IN.		1.38	1.37	1.37	
INITIAL HEIGHT, IN.		3.00	3.00	3.00	

CONTROLLED-STRAIN TEST

DESCRIPTION OF SPECIMENS: CLAY (CH), GRAY

LL 66	PL 22	PI 44	GS 2.70 (ESTIMATED)	UNDISTURBED SPECIMEN	Q TEST

REMARKS:

PROJECT INTRACOASTAL WATERWAY LOCKS, LA

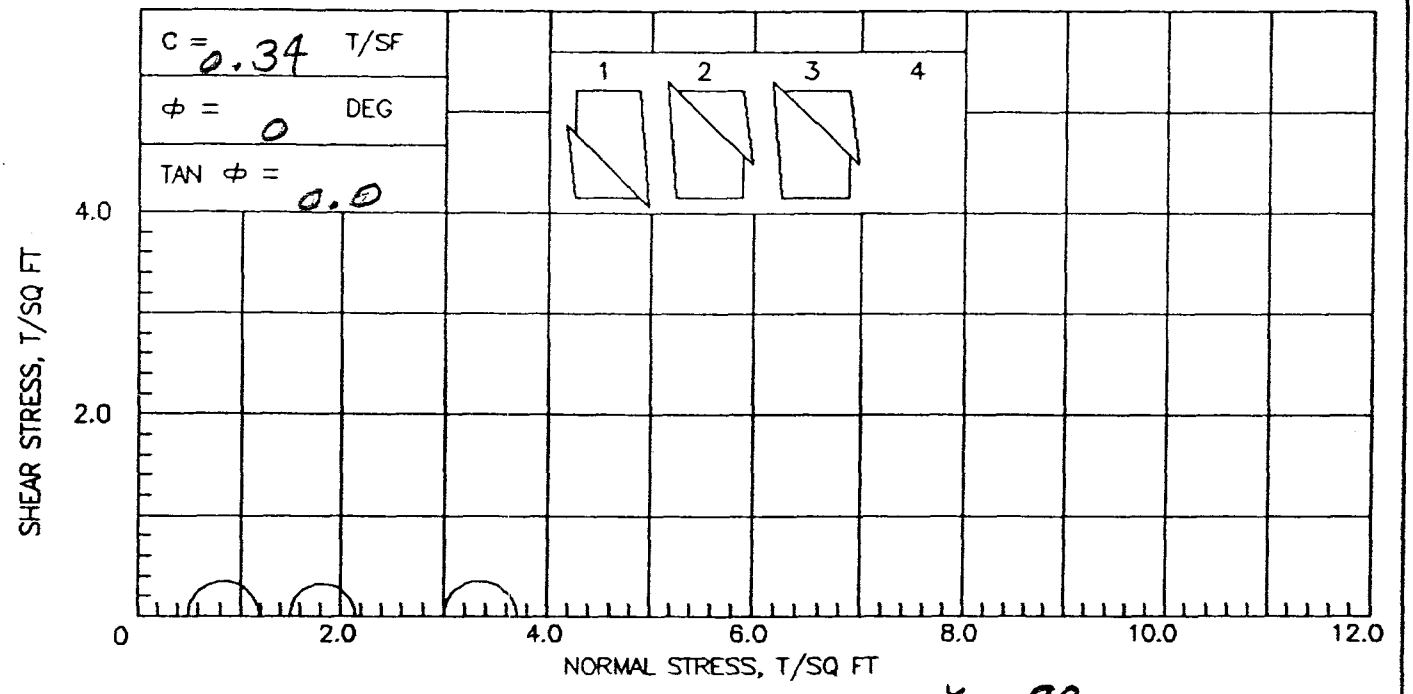
BAYOU SORREL LOCK

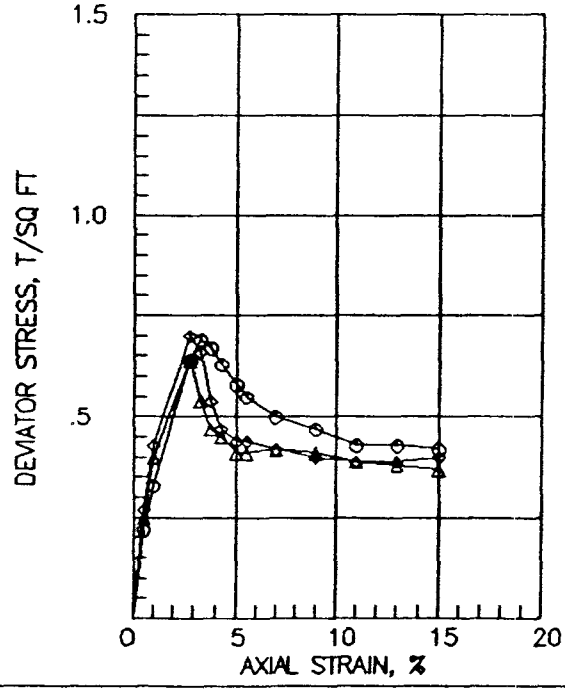
BORING NO. 6BYSU — SAMPLE NO. 10C

DEPTH/ELEV 37.0/-35.9 — TECH. JH

LABORATORY USAE WES - STF/GL — DATE 01 MAY 95

TRIAXIAL COMPRESSION TEST REPORT





$\gamma = 98$

SPECIMEN NO.		○ 1	△ 2	◇ 3	4
INITIAL	WATER CONTENT, %	71.0	71.7	74.4	72.37
	DRY DENSITY, PCF	56.8	56.4	54.2	55.80
	SATURATION, %	97.4	97.4	95.2	96.67
	VOID RATIO	1.970	1.988	2.110	
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		.69	.64	.70	.63
TIME TO FAILURE, MIN.		7	14	14	
STRAIN RATE INCR., %			5	5	
INITIAL DIAMETER, IN.		1.38	1.38	1.38	
INITIAL HEIGHT, IN.		3.00	3.00	3.00	

CONTROLLED-STRAIN TEST

DESCRIPTION OF SPECIMENS: CLAY (CH), GRAY

LL 98	PL 26	PI 72	GS 2.70 (ESTIMATED)	UNDISTURBED SPECIMEN	Q TEST

REMARKS:

PROJECT INTRACOASTAL WATERWAY LOCKS, LA

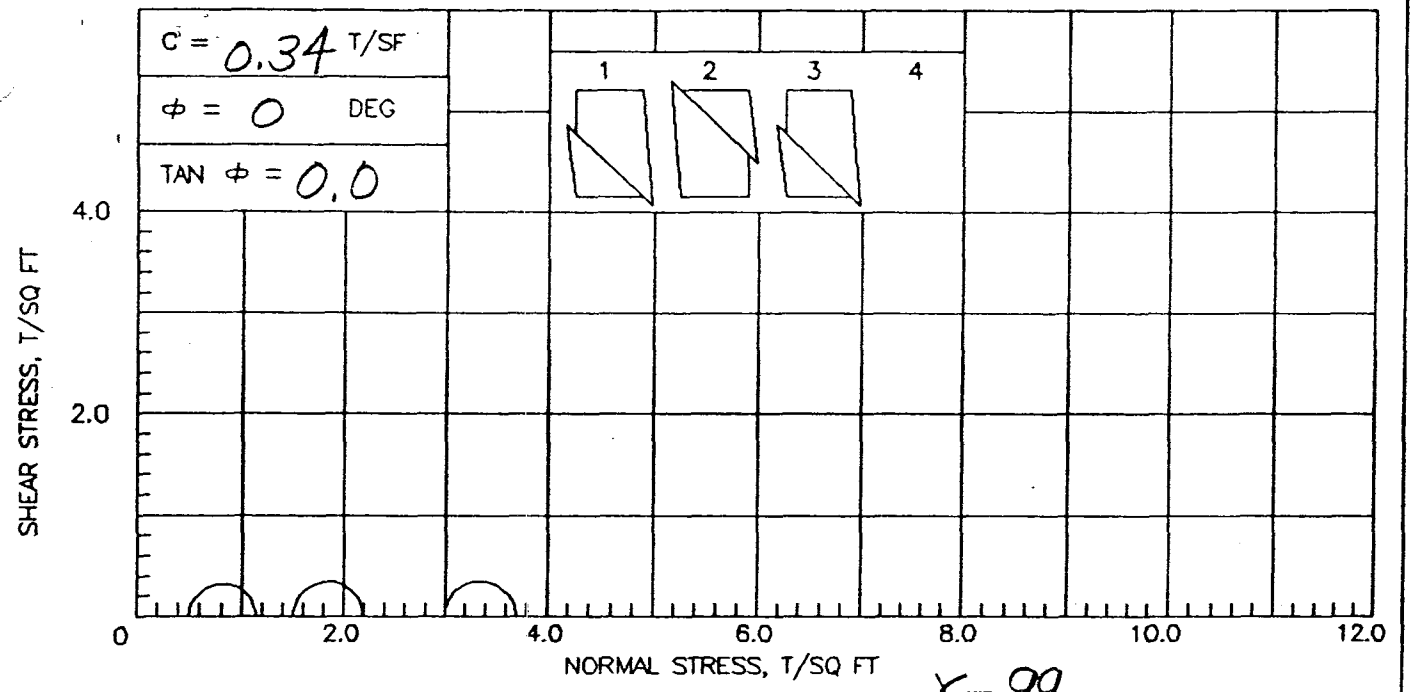
BAYOU SORREL LOCK

BORING NO. 6BYSU | SAMPLE NO. 12B

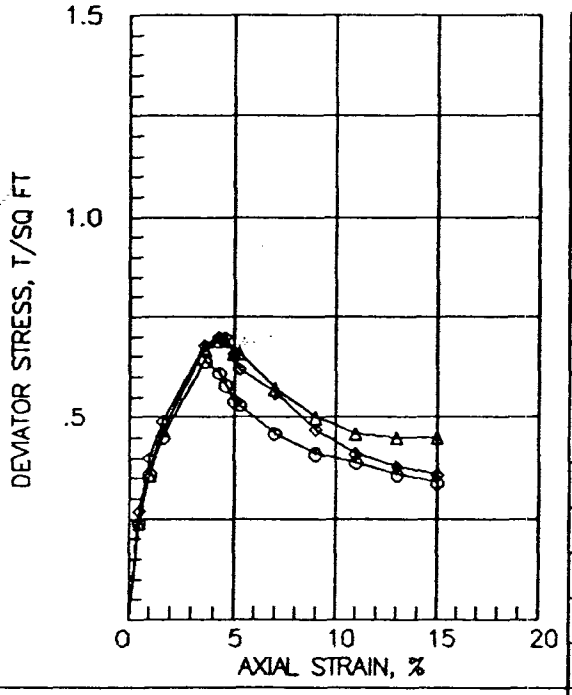
DEPTH/ELEV 44.0/-42.9 | TECH. JH

LABORATORY USAE WES - STF/GL | DATE 03 MAY 95

TRIAXIAL COMPRESSION TEST REPORT



γ = 99



SPECIMEN NO.		○ 1	△ 2	◇ 3	4
INITIAL	WATER CONTENT, %	65.5	65.6	66.3	65.86
	DRY DENSITY, PCF	60.0	60.2	59.6	59.93
	SATURATION, %	97.8	98.2	97.8	97.93
	VOID RATIO	1.810	1.802	1.830	
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		.64	.69	.70	.63
TIME TO FAILURE, MIN.		8	20	26	
STRAIN RATE INCR., %			5		
INITIAL DIAMETER, IN.		1.37	1.38	1.37	
INITIAL HEIGHT, IN.		3.00	3.00	3.00	

CONTROLLED-STRAIN TEST

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

LL 91	PL 24	PI 67	GS 2.70 (ESTIMATED)	UNDISTURBED SPECIMEN	Q TEST

REMARKS:

PROJECT INTRACOASTAL WATERWAY LOCKS, LA

BAYOU SORREL LOCK

BORING NO. 6BYSU — SAMPLE NO. 13B

DEPTH/ELEV 48.5/-47.4 — TECH. JH

LABORATORY USAE WES - STF/GL — DATE 05 MAY 95

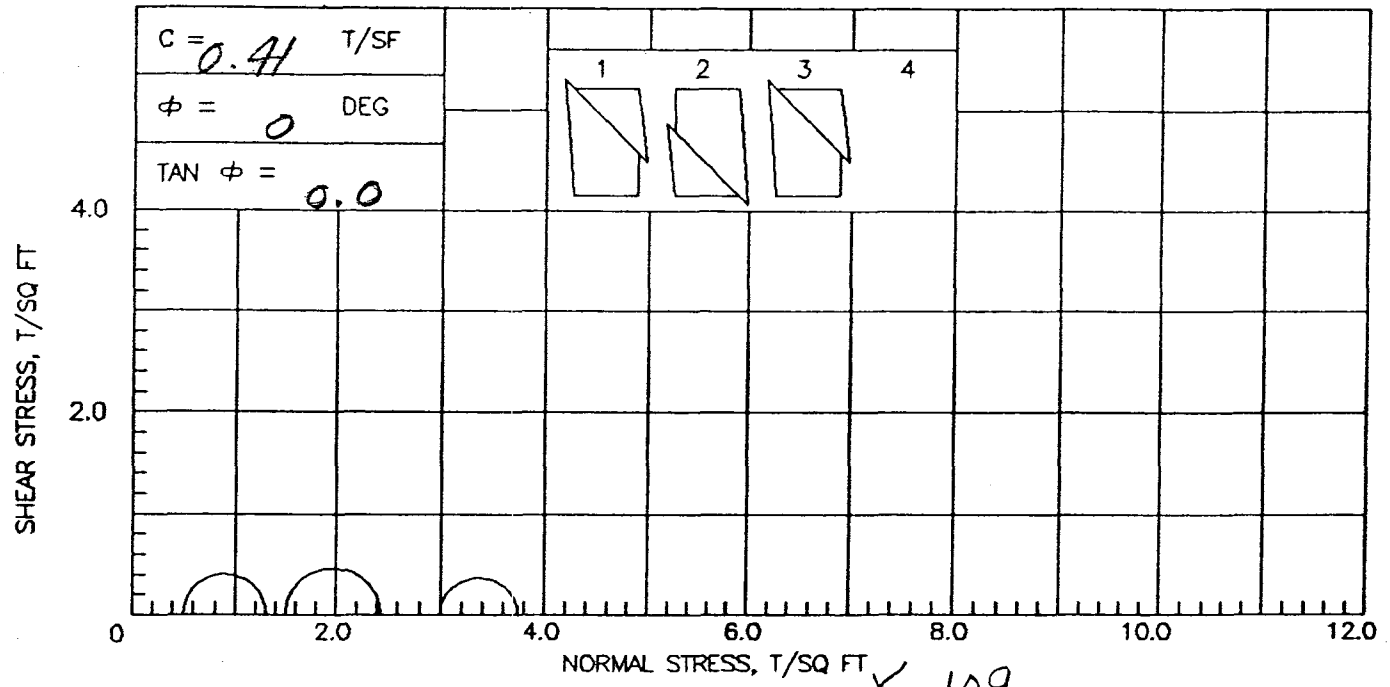
TRIAXIAL COMPRESSION TEST REPORT

1

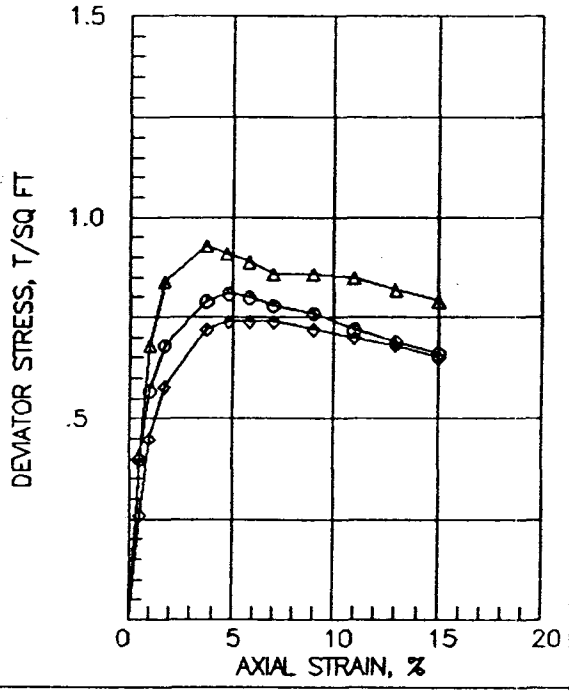
C = 0.41 T/SF

Φ = 0 DEG

TAN Φ = 0.0



γ = 109



SPECIMEN NO.		○ 1	△ 2	◇ 3	4
INITIAL	WATER CONTENT, %	41.1	42.3	47.9	43.77
	DRY DENSITY, PCF	78.2	77.3	71.3	75.65
	SATURATION, %	96.1	96.6	94.7	95.80
	VOID RATIO	1.154	1.182	1.365	
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		.81	.93	.74	.83
TIME TO FAILURE, MIN.		10	17	31	
STRAIN RATE INCR., %			7		
INITIAL DIAMETER, IN.		1.38	1.38	1.38	
INITIAL HEIGHT, IN.		3.00	3.00	3.00	

CONTROLLED-STRAIN TEST

DESCRIPTION OF SPECIMENS: CLAY (CH), GRAY

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

REMARKS:

PROJECT INTRACOASTAL WATERWAY LOCKS, LA

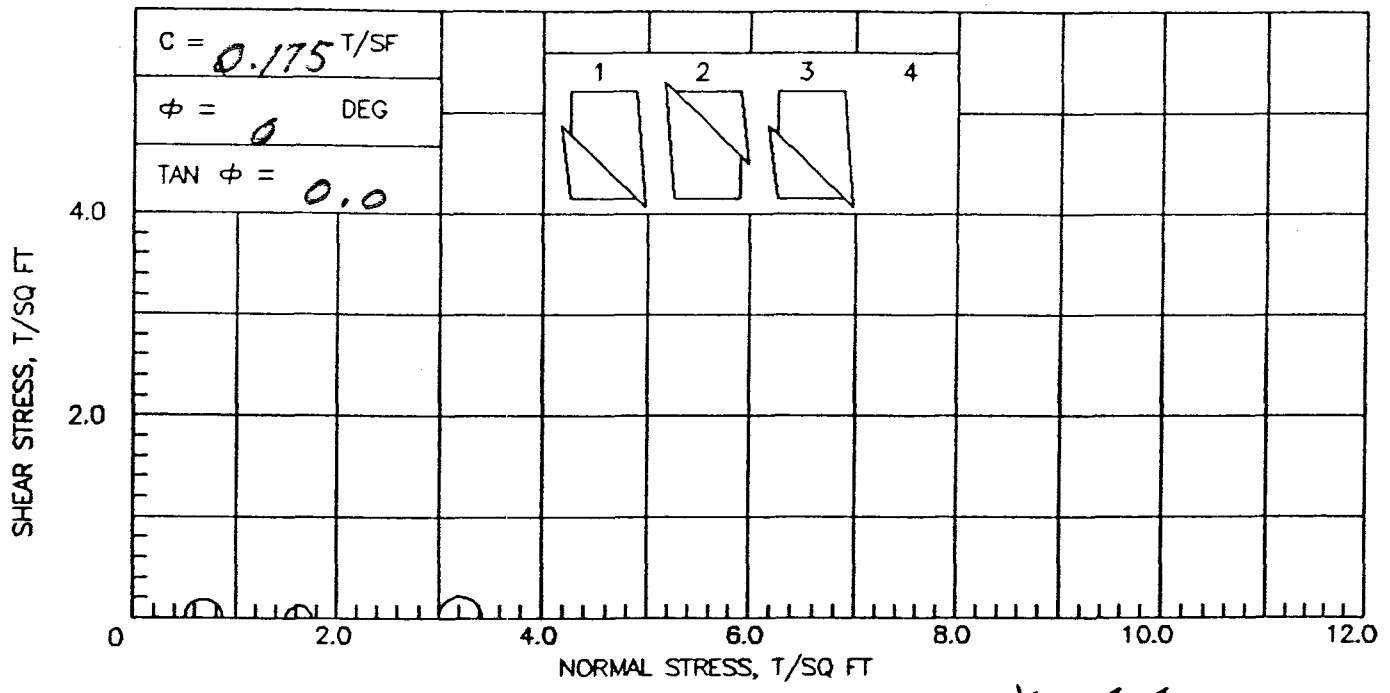
BAYOU SORREL LOCK

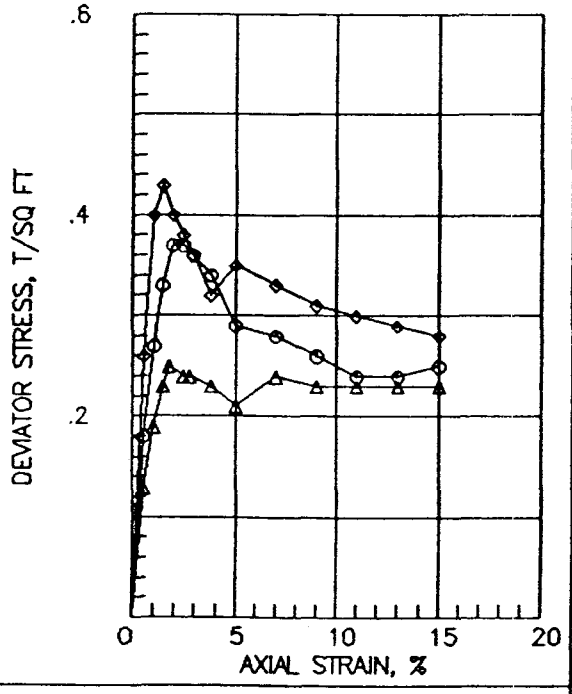
BORING NO. 6BYSU | SAMPLE NO. 15D

DEPTH/ELEV 57.4/-56.3 | TECH. JH

LABORATORY USAE WES - STF/GL | DATE 08 MAY 95

TRIAXIAL COMPRESSION TEST REPORT





γ = 101

SPECIMEN NO.		○ 1	△ 2	◇ 3	4
INITIAL	WATER CONTENT, %	62.5	65.2	61.1	62.93
	DRY DENSITY, PCF	61.9	59.7	62.3	61.30
	SATURATION, %	98.0	96.6	96.8	97.13
	VOID RATIO	1.724	1.823	1.705	
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		.37	.25	.43	.35
TIME TO FAILURE, MIN.		4	10	8	
STRAIN RATE INCR., %			5	3	
INITIAL DIAMETER, IN.		1.38	1.38	1.38	
INITIAL HEIGHT, IN.		3.00	3.00	3.00	

CONTROLLED-STRAIN TEST

DESCRIPTION OF SPECIMENS: CLAY (CH), GRAY

LL 91	PL 25	PI 66	GS 2.70 (ESTIMATED)	UNDISTURBED SPECIMEN	Q TEST

REMARKS:

PROJECT INTRACOASTAL WATERWAY LOCKS, LA

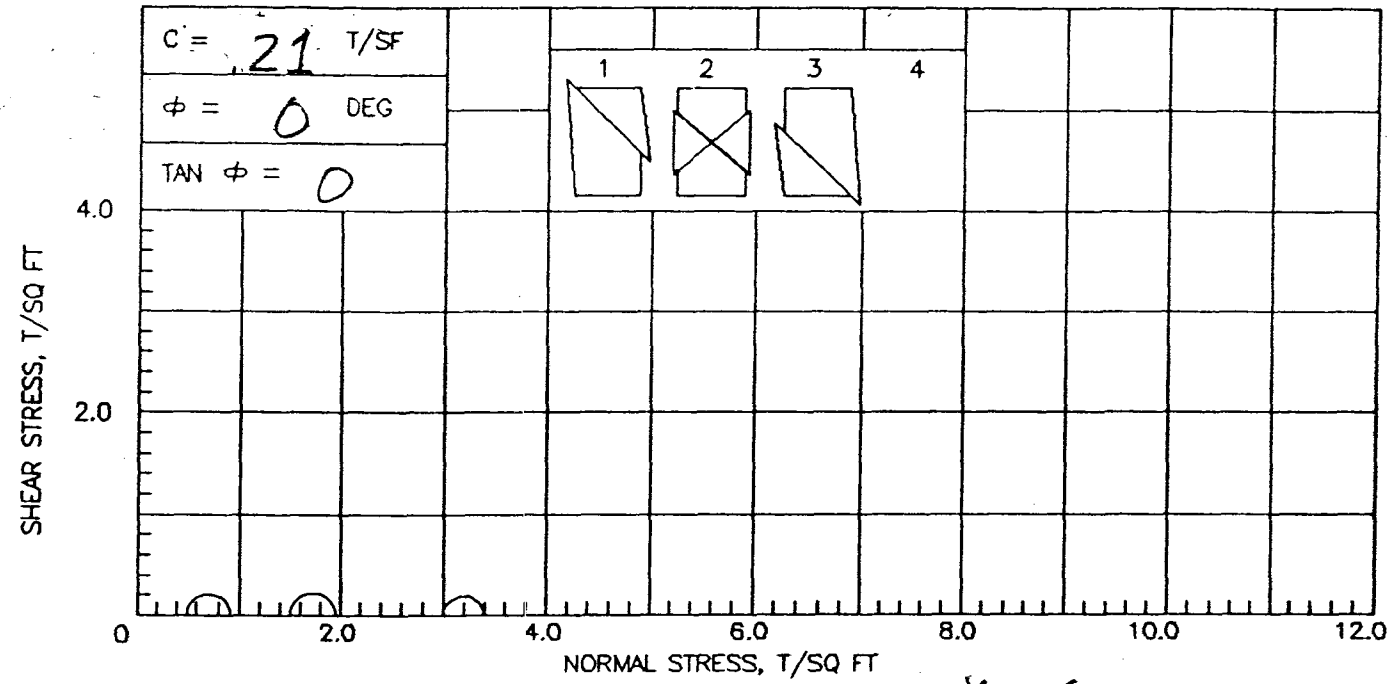
BAYOU SORREL LOCK

BORING NO. 7BYSU | SAMPLE NO. 6C

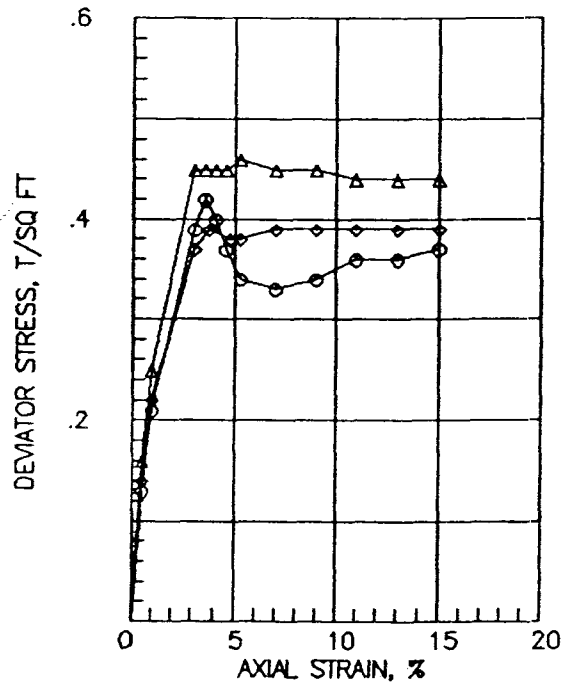
DEPTH/ELEV 21.0/-19.7 | TECH. JH

LABORATORY USAE WES - STF/GL | DATE 08 MAY 95

TRIAXIAL COMPRESSION TEST REPORT



γ = 107



	SPECIMEN NO.	○ 1	△ 2	◇ 3	4
INITIAL	WATER CONTENT, %	48.5	48.5	50.2	49.07
	DRY DENSITY, PCF	71.6	71.6	70.6	71.27
	SATURATION, %	96.8	96.9	97.6	92.10
	VOID RATIO	1.354	1.353	1.389	
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		.42	.45	.39	.42
TIME TO FAILURE, MIN.		8	13	15	
STRAIN RATE INCR., %			5	5	
INITIAL DIAMETER, IN.		1.37	1.38	1.38	
INITIAL HEIGHT, IN.		3.00	3.00	3.00	

CONTROLLED-STRAIN TEST

DESCRIPTION OF SPECIMENS: CLAY (CH), GRAY

LL 63	PL 20	PI 43	GS 2.70 (ESTIMATED)	UNDISTURBED SPECIMEN	Q TEST

REMARKS:

PROJECT INTRACOASTAL WATERWAY LOCKS, LA

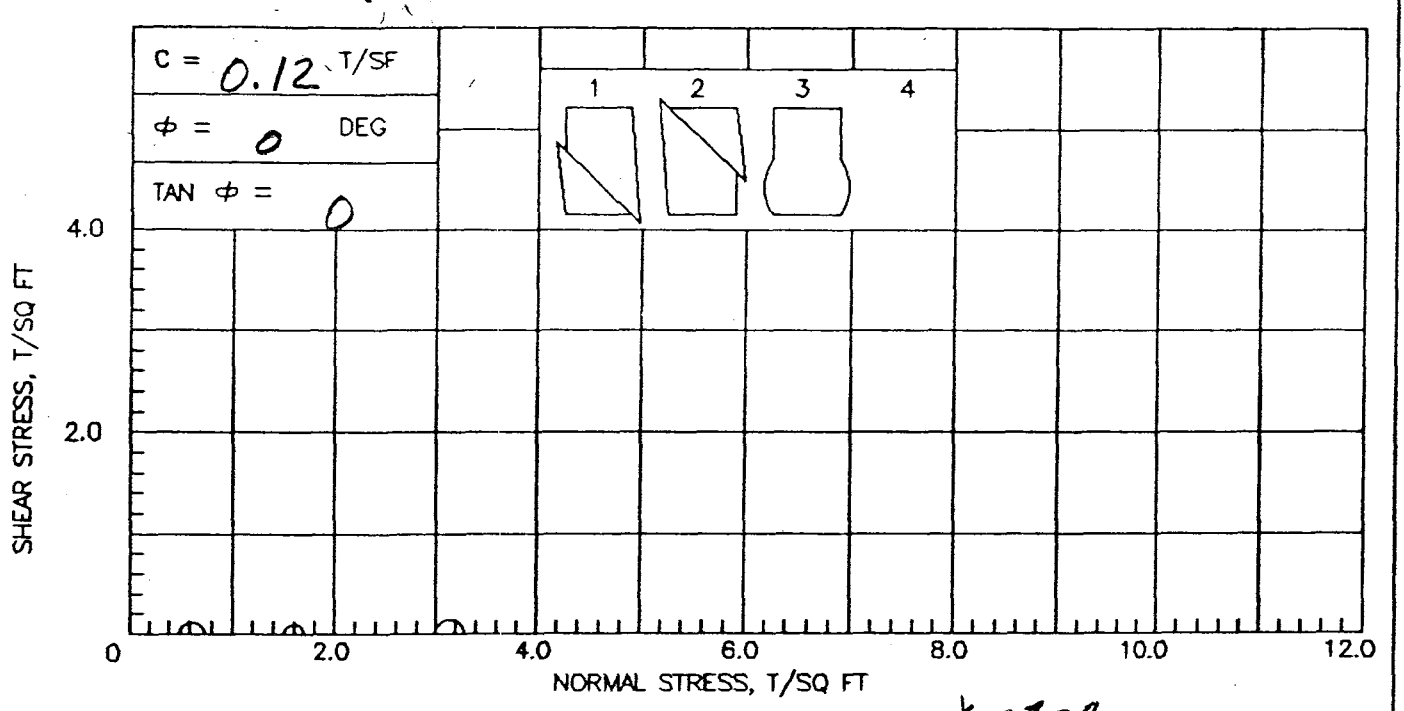
BAYOU SORREL LOCK

BORING NO. 7BYSU — SAMPLE NO. 8B

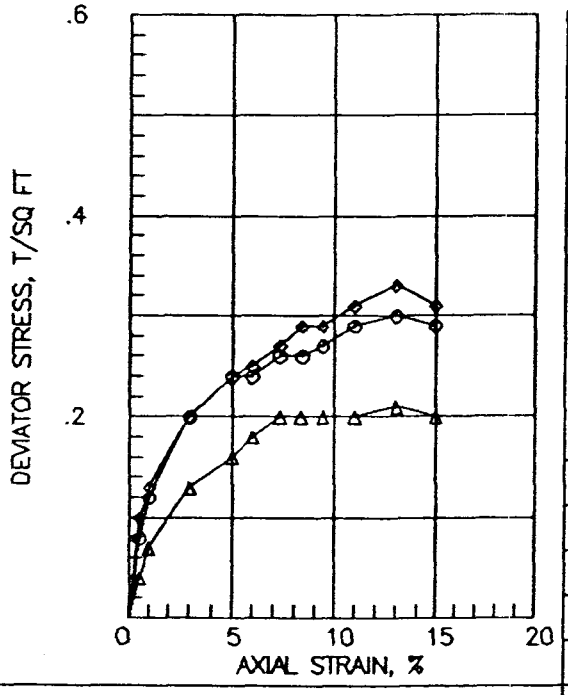
DEPTH/ELEV 28.5/-27.2 — TECH. JH

LABORATORY USAE WES - STF/GL — DATE 09 MAY 95

TRIAXIAL COMPRESSION TEST REPORT



γ = 104



	SPECIMEN NO.	○ 1	△ 2	◇ 3	4
INITIAL	WATER CONTENT, %	57.5	56.2	56.2	56.63
	DRY DENSITY, PCF	65.5	65.5	65.0	65.33
	SATURATION, %	98.8	96.5	95.4	98.91
	VOID RATIO	1.572	1.572	1.591	
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		.24	.20	.29	.24
TIME TO FAILURE, MIN.		11	18	32	
STRAIN RATE INCR., %					
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 71	PL 21	PI 50	GS 2.70 (ESTIMATED)	UNDISTURBED SPECIMEN	Q TEST

REMARKS:

PROJECT INTRACOASTAL WATERWAY LOCKS, LA

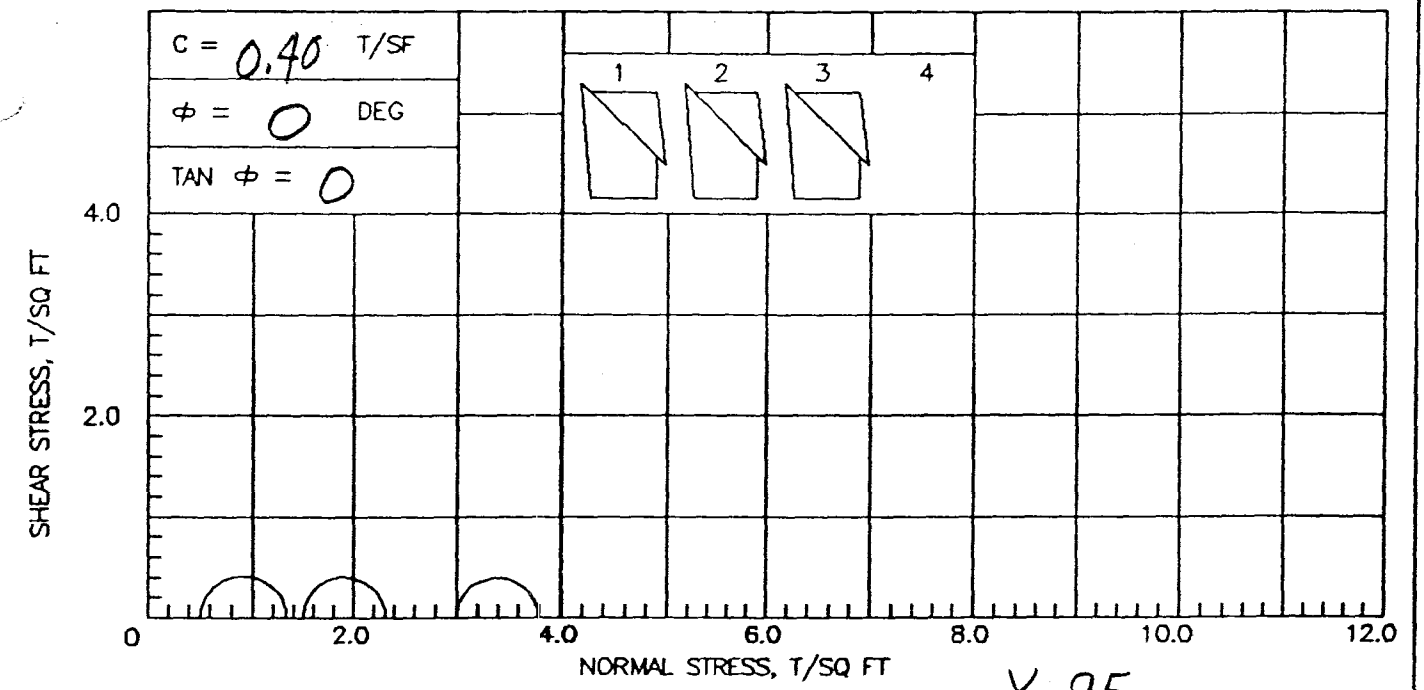
BAYOU SORREL LOCK

BORING NO. 7BYSU | SAMPLE NO. 11B

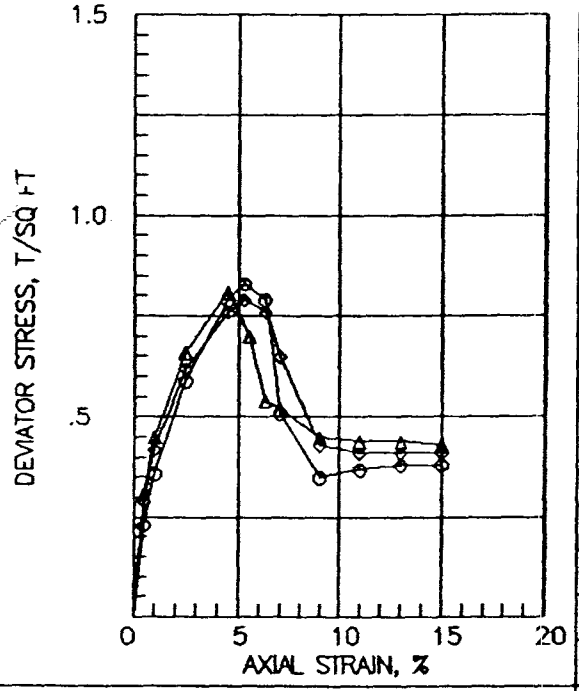
DEPTH/ELEV 40.0/-38.7 | TECH. JH

LABORATORY USAE WES - STF/GL | DATE 09 MAY 95

TRIAXIAL COMPRESSION TEST REPORT



γ=95



SPECIMEN NO.		○ 1	△ 2	◇ 3	4
INITIAL	WATER CONTENT, %	79.2	78.5	79.0	[illegible]
	DRY DENSITY, PCF	51.8	52.3	52.3	52.13
	SATURATION, %	94.9	95.3	96.0	[illegible]
	VOID RATIO	2.252	2.225	2.223	
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		.83	.81	.79	.81
TIME TO FAILURE, MIN.		11	12	19	
STRAIN RATE INCR., %			6	6	
INITIAL DIAMETER, IN.		1.39	1.38	1.38	
INITIAL HEIGHT, IN.		3.00	3.00	3.00	

CONTROLLED-STRAIN TEST

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

LL 122	PL 30	PI 92	GS 2.70 (ESTIMATED)	UNDISTURBED SPECIMEN	Q TEST

REMARKS:

PROJECT INTRACOASTAL WATERWAY LOCKS, LA

BAYOU SORREL LOCK

BORING NO. 7BYSU | SAMPLE NO. 12B

DEPTH/ELEV 43.5/-42.2 | TECH. JH

LABORATORY USAE WES - STF/GL | DATE 10 MAY 95

TRIAXIAL COMPRESSION TEST REPORT