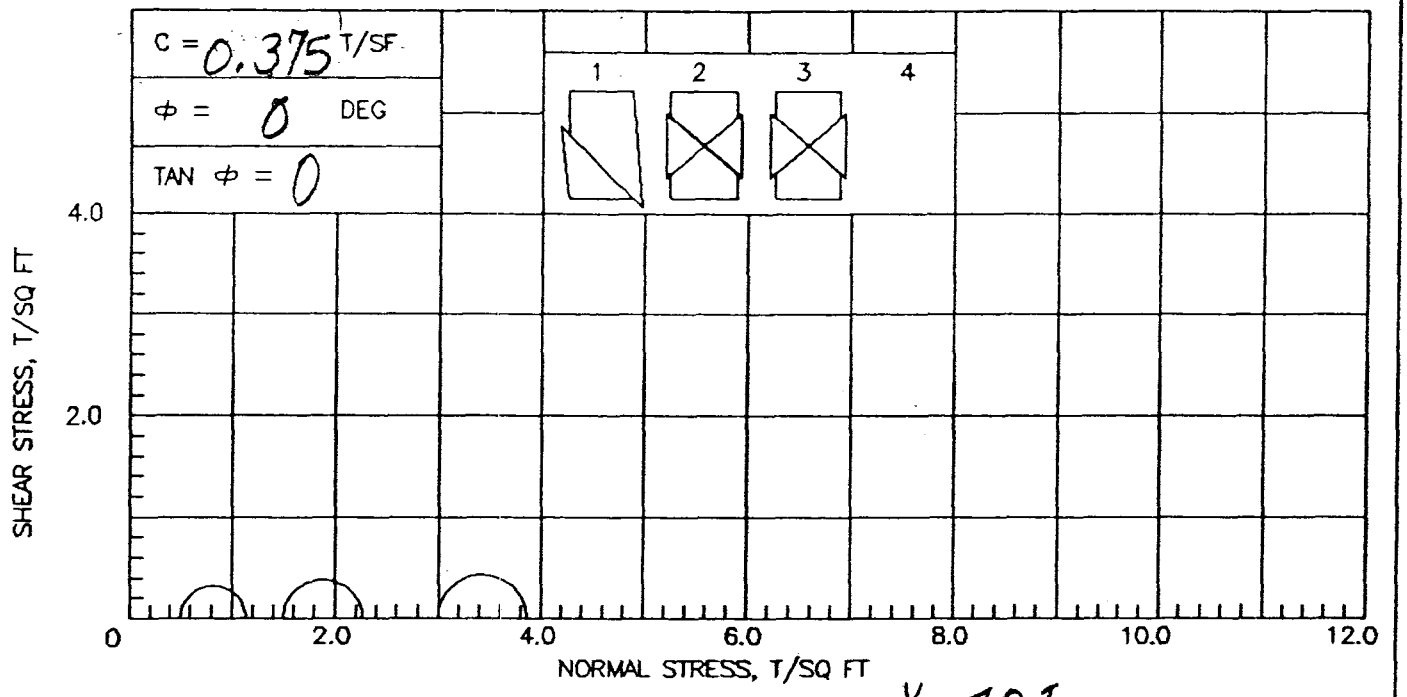

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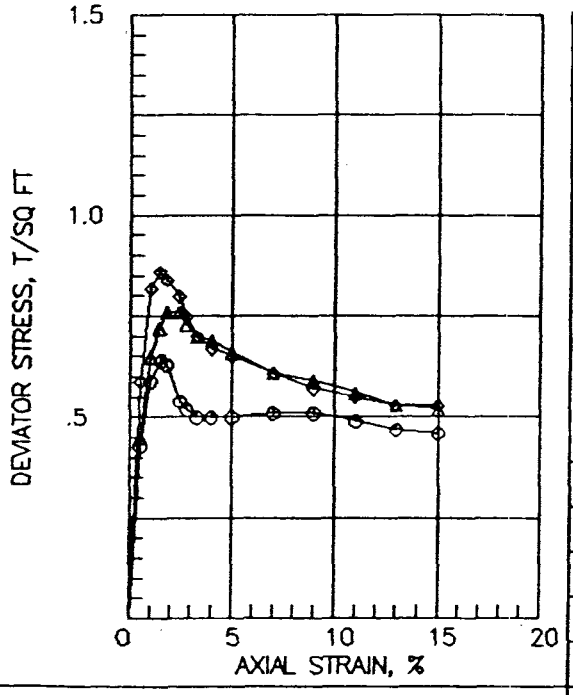


SPECIMEN NO.		○ 1	△ 2	◇ 3	4
INITIAL	WATER CONTENT, %	61.8	62.5	63.5	
	DRY DENSITY, PCF	61.7	61.5	61.0	
	SATURATION, %	96.3	96.9	97.2	
	VOID RATIO	1.733	1.743	1.764	
BEFORE SHEAR	WATER CONTENT, %				
	DRY DENSITY, PCF				
	SATURATION, %				
	VOID RATIO				
	BACK PRESSURE, TSF				
CHAMBER PRESSURE, TSF		.50	1.50	3.00	
MAX. DEV. STRESS, TSF		.64	.76	.86	.75
TIME TO FAILURE, MIN.		3	13	12	
STRAIN RATE INCR., %			3	4	
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 87	PL 26	PI 61	GS 2.70 (ESTIMATED)	UNDISTURBED SPECIMEN	Q TEST

REMARKS:

PROJECT INTRACOASTAL WATERWAY LOCKS, LA

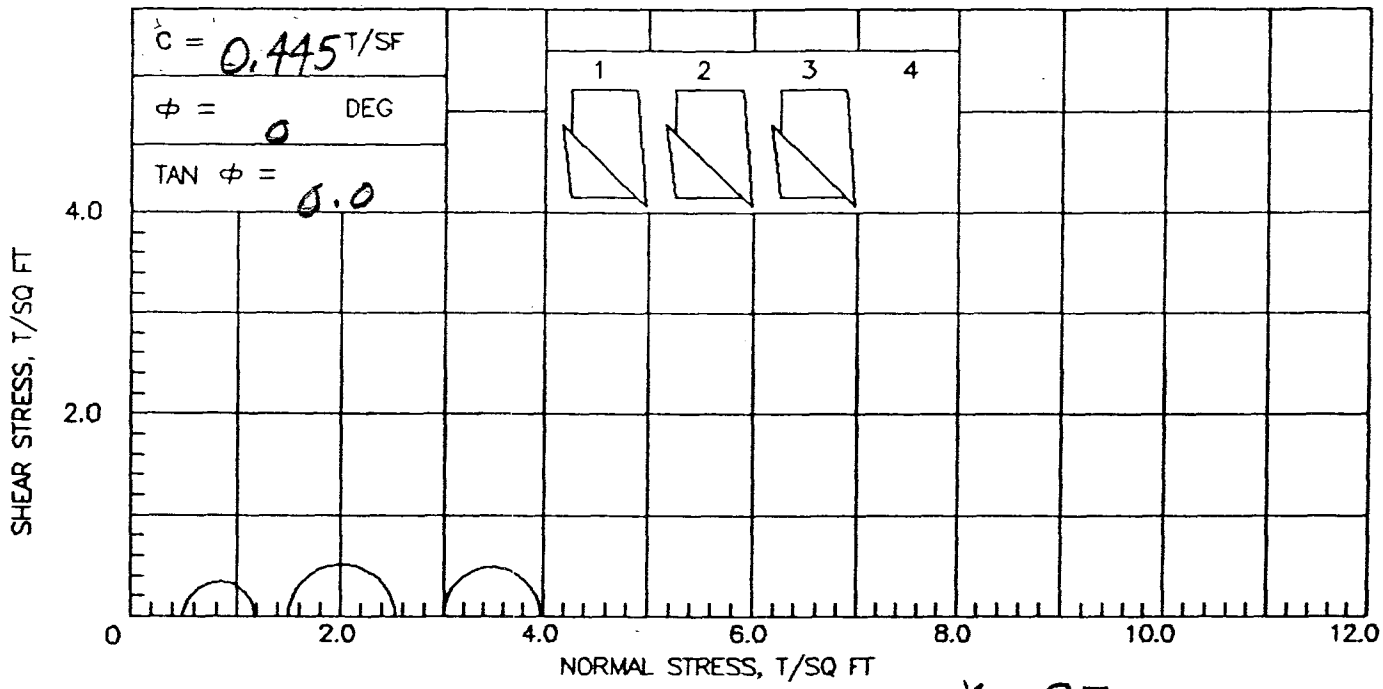
BAYOU SORREL LOCK

BORING NO. 7BYSU | SAMPLE NO. 13C

DEPTH/ELEV 49.4/-48.1 | TECH. JH

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

TRIAXIAL COMPRESSION TEST REPORT



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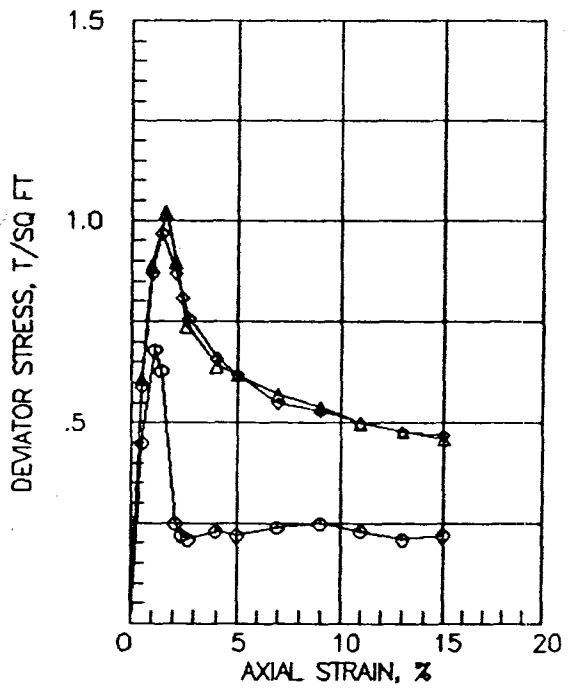


SPECIMEN NO.		○ 1	△ 2	◇ 3	4
INITIAL	WATER CONTENT, %	70.3	71.1	70.5	[illegible]
	DRY DENSITY, PCF	56.7	56.7	56.9	[illegible]
	SATURATION, %	96.2	97.2	97.0	[illegible]
	VOID RATIO	1.973	1.975	1.962	
BEFORE SHEAR	WATER CONTENT, %				
	DRY DENSITY, PCF				
	SATURATION, %				
	VOID RATIO				
	BACK PRESSURE, TSF				
CHAMBER PRESSURE, TSF		.50	1.50	3.00	
MAX. DEV. STRESS, TSF		.68	1.02	.97	.59
TIME TO FAILURE, MIN.		2	18	15	
STRAIN RATE INCR., %			2	4	
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; ORGANIC MATERIAL

LL 110	PL 27	PI 83	GS 2.70 (ESTIMATED)	UNDISTURBED SPECIMEN	Q TEST

REMARKS:

PROJECT INTRACOASTAL WATERWAY LOCKS, LA

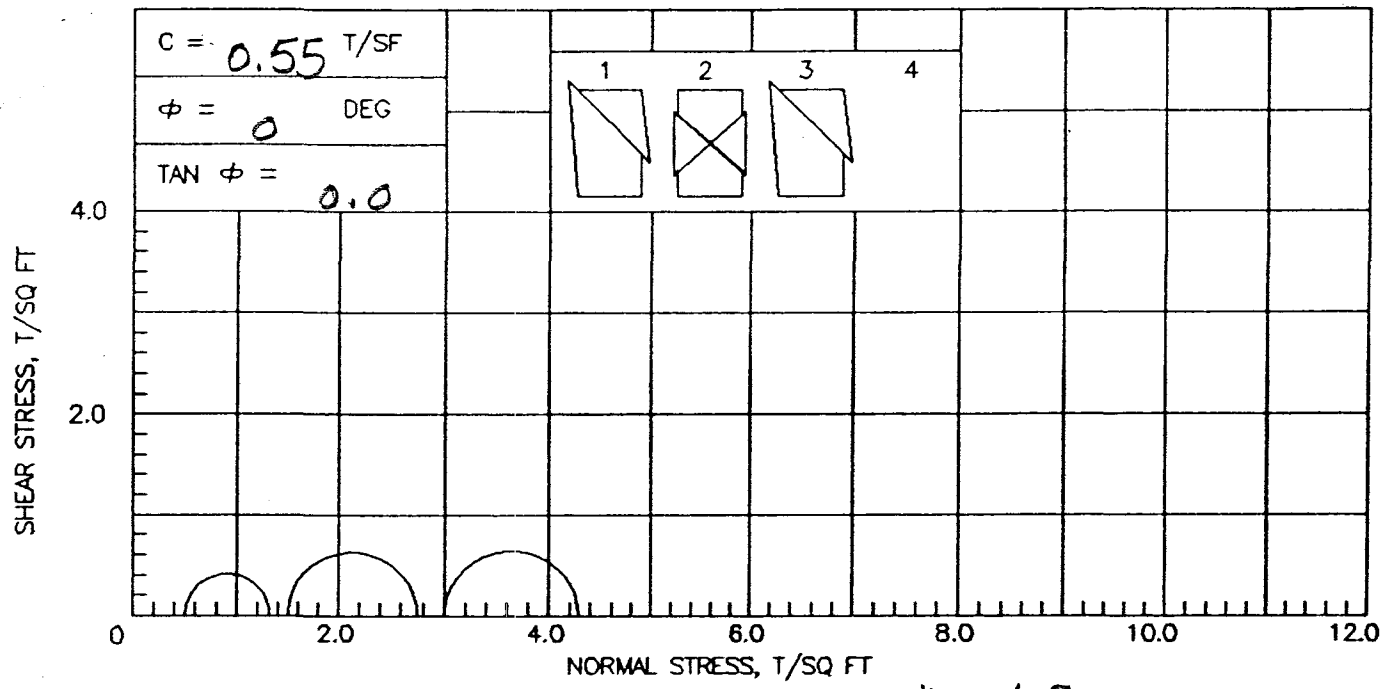
BAYOU SORREL LOCK

BORING NO. 7BYSU — SAMPLE NO. 15C

DEPTH/ELEV 56.7/-55.4 — TECH. JH

LABORATORY USAE WES - STF/GL — DATE 11 MAY 95

TRIAXIAL COMPRESSION TEST REPORT



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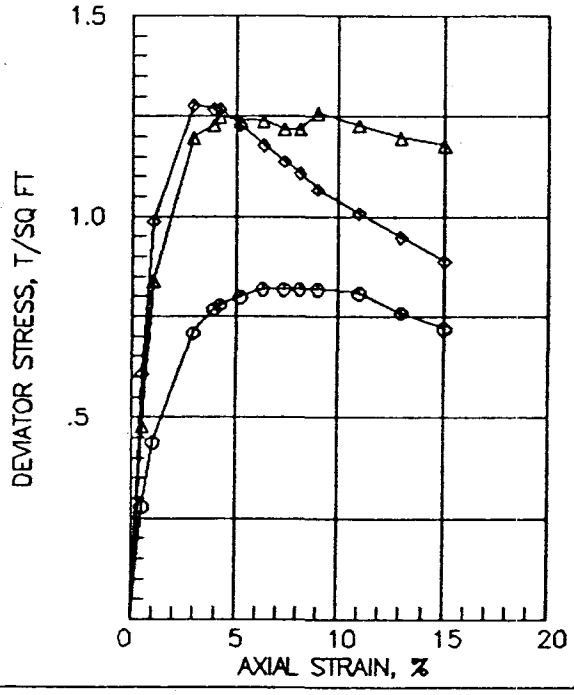


SPECIMEN NO.		○ 1	△ 2	◇ 3	4
INITIAL	WATER CONTENT, %	43.6	44.6	45.6	44.60
	DRY DENSITY, PCF	74.3	73.7	72.8	73.60
	SATURATION, %	92.8	93.7	93.4	93.35
	VOID RATIO	1.268	1.287	1.317	
BEFORE SHEAR	WATER CONTENT, %				
	DRY DENSITY, PCF				
	SATURATION, %				
	VOID RATIO				
	BACK PRESSURE, TSF				
CHAMBER PRESSURE, TSF		.50	1.50	3.00	
MAX. DEV. STRESS, TSF		.82	1.25	1.28	1.11
TIME TO FAILURE, MIN.		13	12	10	
STRAIN RATE INCR., %			8		
INITIAL DIAMETER, IN.		1.38	1.37	1.38	
INITIAL HEIGHT, IN.		3.00	3.00	3.00	

CONTROLLED-STRAIN TEST

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

LL 95	PL 25	PI 70	GS 2.70 (ESTIMATED)	UNDISTURBED SPECIMEN	Q TEST

REMARKS:

PROJECT INTRACOASTAL WATERWAY LOCKS, LA

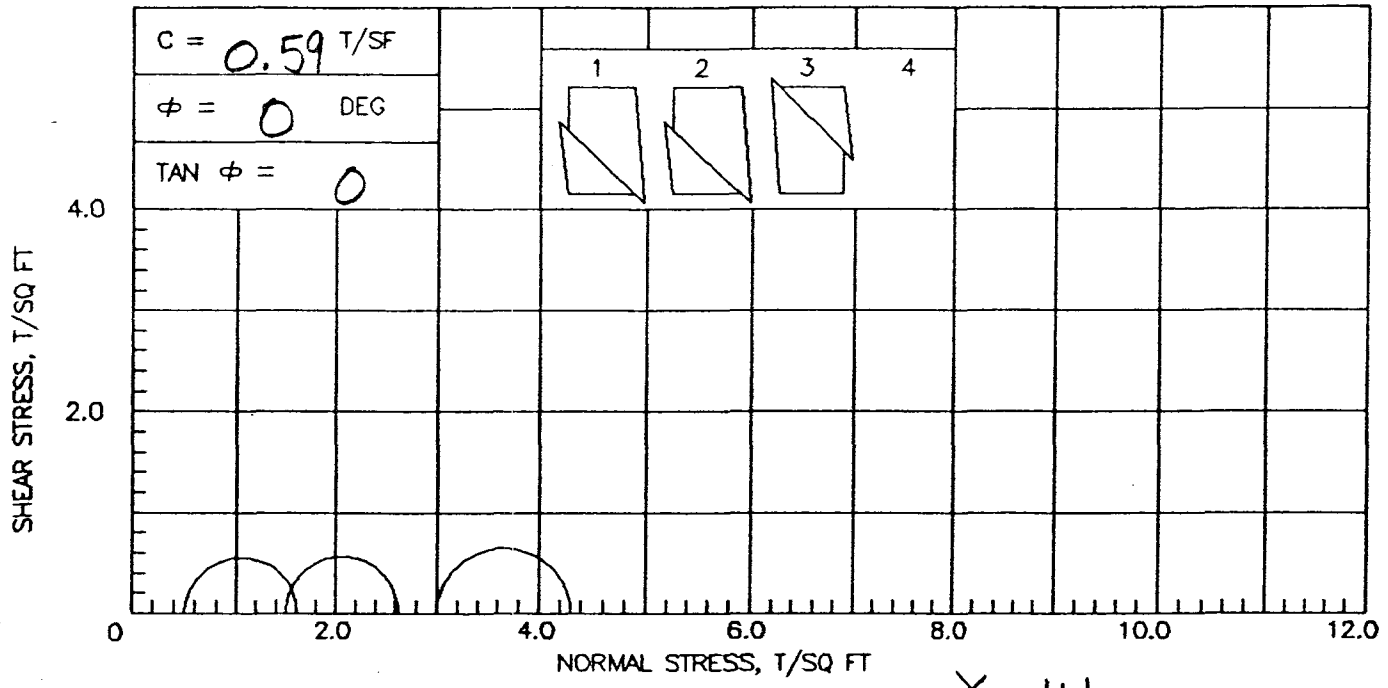
BAYOU SORREL LOCK

BORING NO. 7BYSU | SAMPLE NO. 17D

DEPTH/ELEV 65.8/-64.5 | TECH. JH

LABORATORY USAE WES - STF/GL | DATE 16 MAY 95

TRIAXIAL COMPRESSION TEST REPORT



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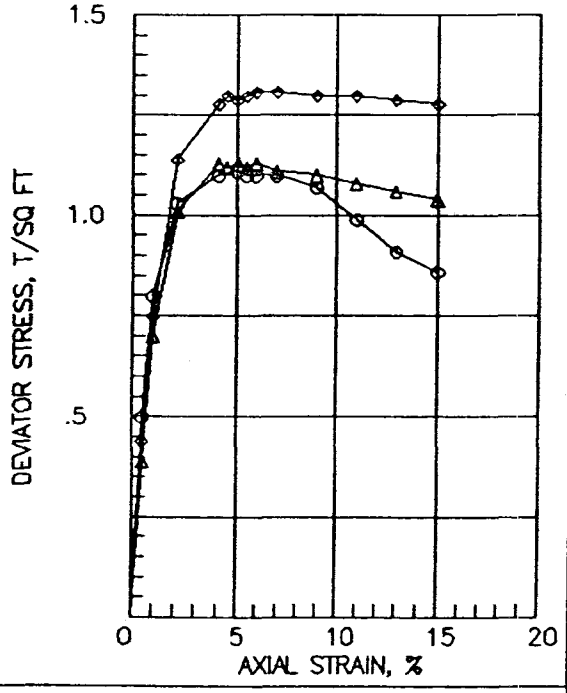


SPECIMEN NO.		○ 1	△ 2	◇ 3	4
INITIAL	WATER CONTENT, %	40.2	40.2	40.6	43.33
	DRY DENSITY, PCF	78.4	77.7	77.2	77.77
	SATURATION, %	94.4	92.8	92.6	93.27
	VOID RATIO	1.149	1.169	1.183	
BEFORE SHEAR	WATER CONTENT, %				
	DRY DENSITY, PCF				
	SATURATION, %				
	VOID RATIO				
	BACK PRESSURE, TSF				
CHAMBER PRESSURE, TSF		.50	1.50	3.00	
MAX. DEV. STRESS, TSF		1.11	1.13	1.30	[illegible]
TIME TO FAILURE, MIN.		11	13	14	
STRAIN RATE INCR., %					
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 76	PL 21	PI 55	GS 2.70 (ESTIMATED)	UNDISTURBED SPECIMEN	Q TEST

REMARKS:

PROJECT INTRACOASTAL WATERWAY LOCKS, LA

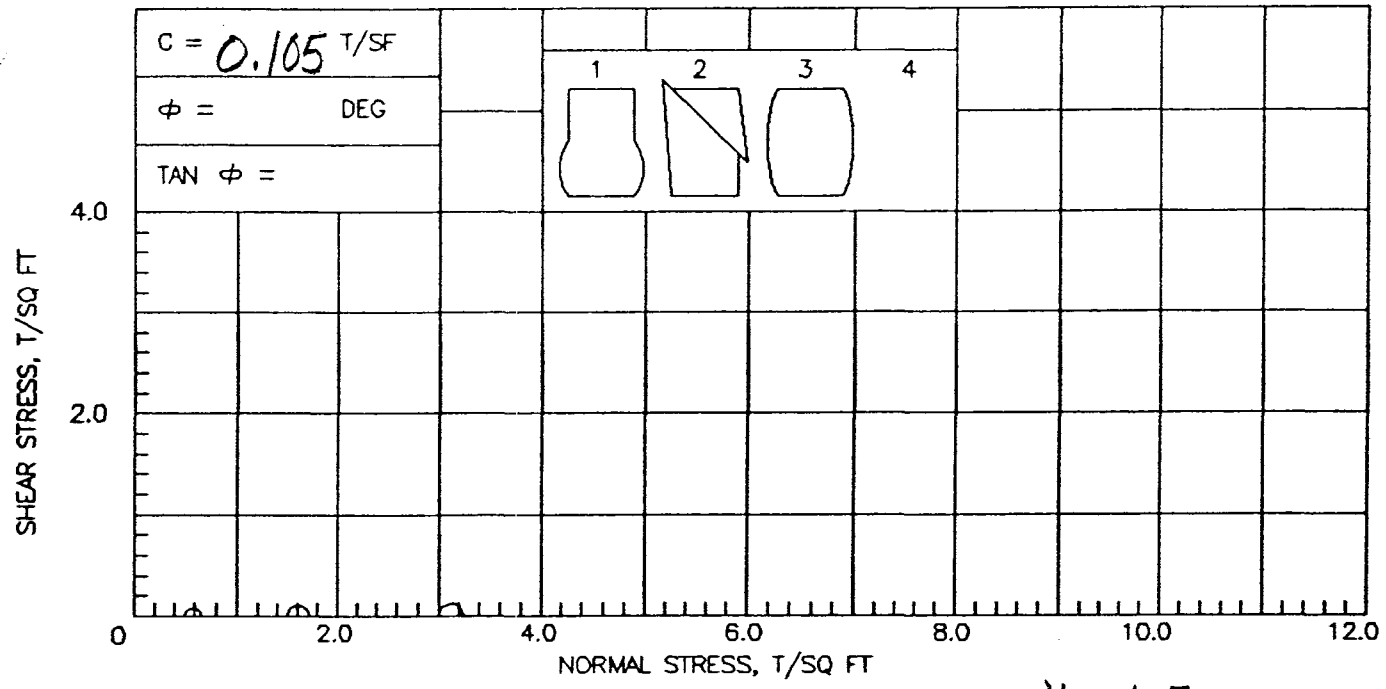
BAYOU SORREL LOCK

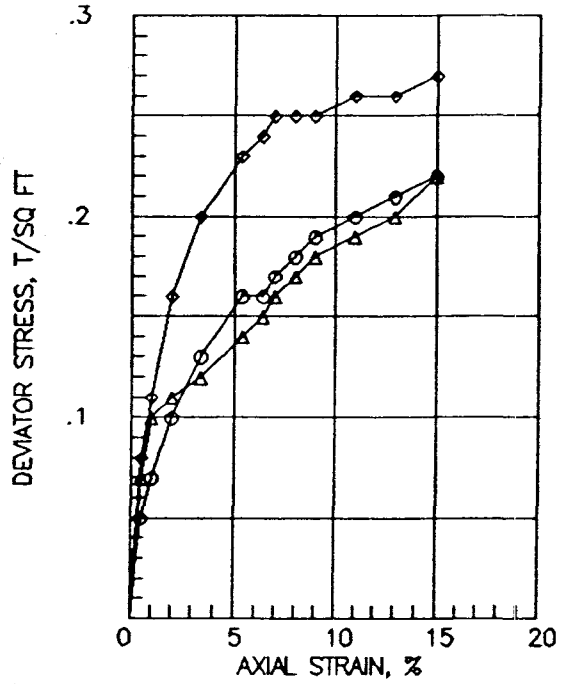
BORING NO. 7BYSU | SAMPLE NO. 19D

DEPTH/ELEV 73.8/-72.5 | TECH. JH

LABORATORY USAE WES - STF/GL | DATE 17 MAY 95

TRIAXIAL COMPRESSION TEST REPORT





γ = 107

SPECIMEN NO.		○ 1	△ 2	◇ 3	4
INITIAL	WATER CONTENT, %	49.5	52.4	46.9	49.60
	DRY DENSITY, PCF	71.3	68.8	72.6	70.90
	SATURATION, %	98.0	97.6	95.9	97.17
	VOID RATIO	1.364	1.450	1.321	
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		.16	.22	.25	.21
TIME TO FAILURE, MIN.		12	55	35	
STRAIN RATE INCR., %					
INITIAL DIAMETER, IN.		1.37	1.36	1.36	
INITIAL HEIGHT, IN.		3.00	3.00	3.00	

CONTROLLED-STRAIN TEST

DESCRIPTION OF SPECIMENS: CLAY (CH), BROWN; SILT LENSES

LL 55	PL 18	PI 37	GS 2.70 (ESTIMATED)	UNDISTURBED SPECIMEN	Q TEST

REMARKS:

PROJECT INTRACOASTAL WATERWAY LOCKS, LA

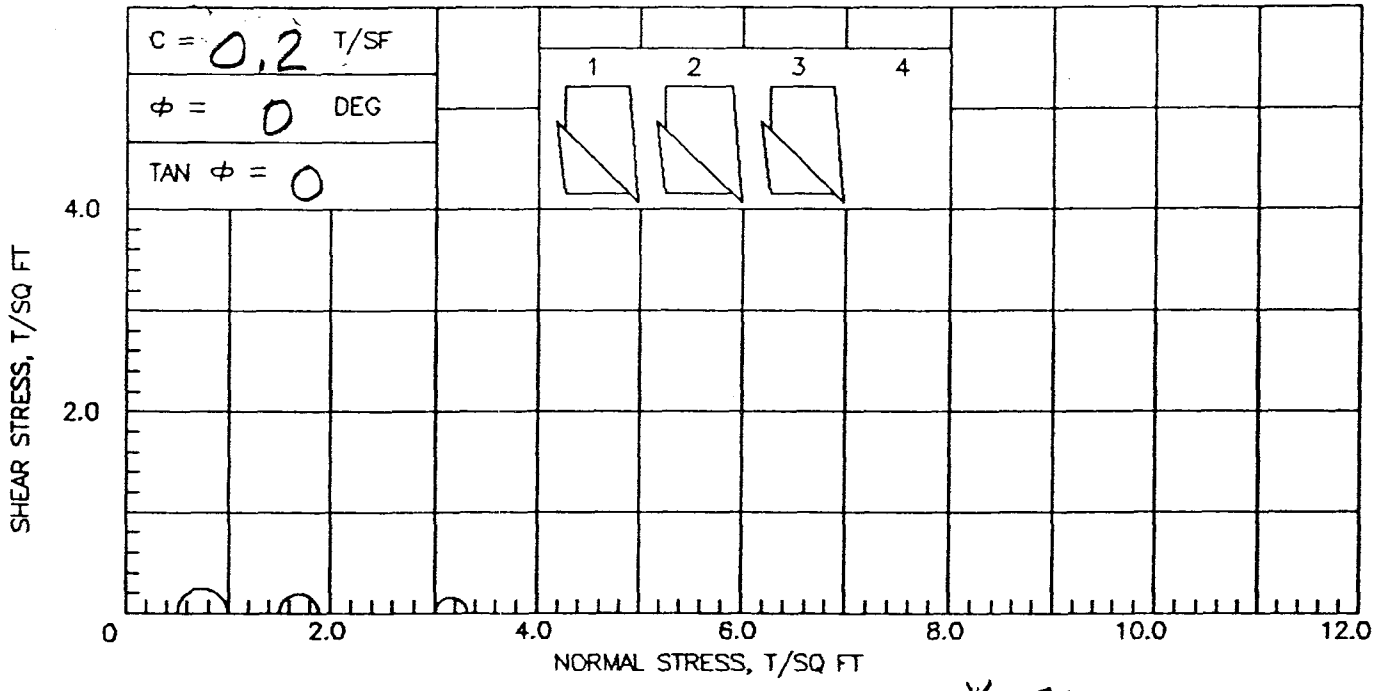
BAYOU SORREL LOCK

BORING NO. 8BYSU — SAMPLE NO. 6B

DEPTH/ELEV 20.0/-14.0 — TECH. JH

LABORATORY USAE WES - STF/GL — DATE 18 MAY 95

TRIAXIAL COMPRESSION TEST REPORT



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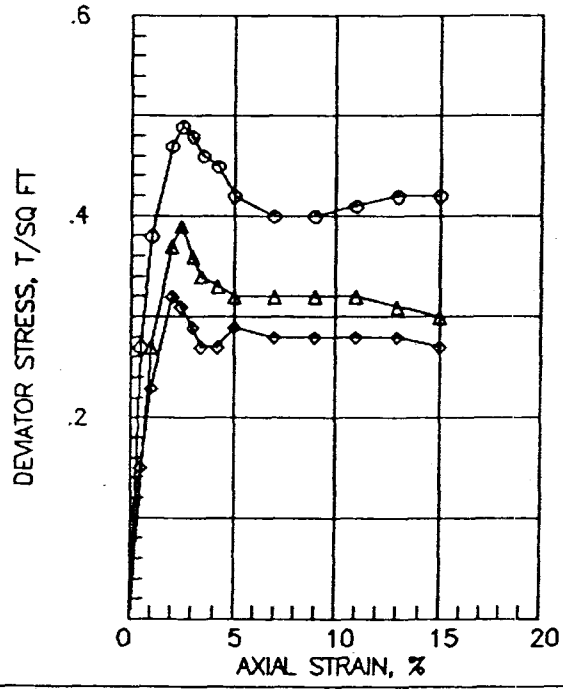


	SPECIMEN NO.	○ 1	△ 2	◇ 3	4
INITIAL	WATER CONTENT, %	68.7	64.9	63.7	65.77
	DRY DENSITY, PCF	58.3	60.5	61.3	60.03
	SATURATION, %	98.0	98.0	98.3	98.10
	VOID RATIO	1.893	1.788	1.751	
BEFORE SHEAR	WATER CONTENT, %				
	DRY DENSITY, PCF				
	SATURATION, %				
	VOID RATIO				
	BACK PRESSURE, TSF				
CHAMBER PRESSURE, TSF		.50	1.50	3.00	
MAX. DEV. STRESS, TSF		.49	.39	.32	[illegible]
TIME TO FAILURE, MIN.		5	9	12	
STRAIN RATE INCR., %			4	4	
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 86	PL 23	PI 63	GS 2.70 (ESTIMATED)	UNDISTURBED SPECIMEN	Q TEST

REMARKS:

PROJECT INTRACOASTAL WATERWAY LOCKS, LA

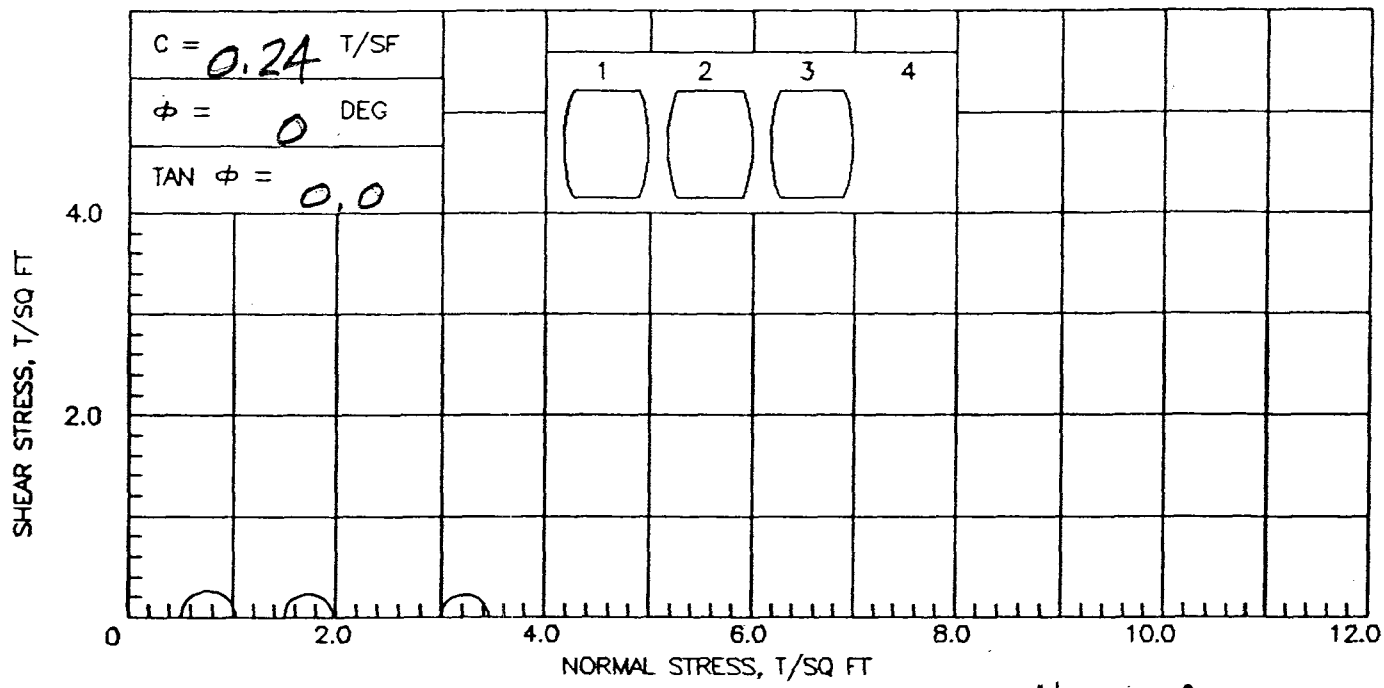
BAYOU SORREL LOCK

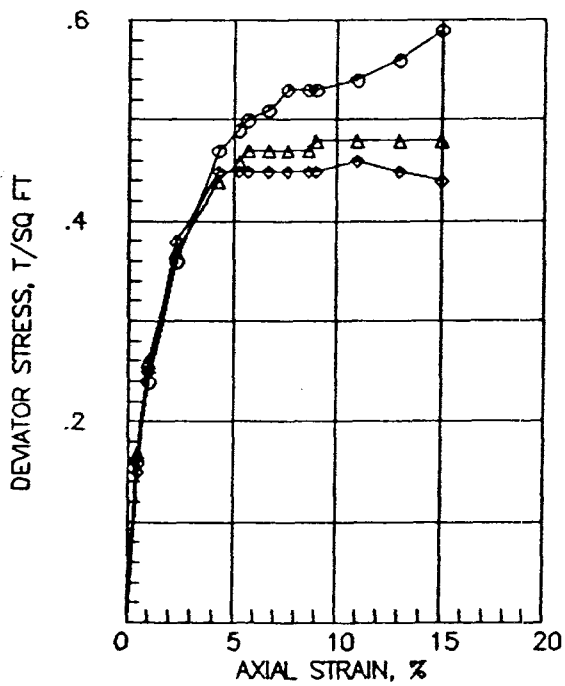
BORING NO. 8BYSU — SAMPLE NO. 9B

DEPTH/ELEV 32.5/-26.5 — TECH. US

LABORATORY USAE WES - STF/GL — DATE 15 MAY 95

TRIAXIAL COMPRESSION TEST REPORT





γ = 108

SPECIMEN NO.		○ 1	△ 2	◇ 3	4
INITIAL	WATER CONTENT, %	45.0	48.3	49.3	47.53
	DRY DENSITY, PCF	74.4	72.1	71.2	72.57
	SATURATION, %	96.2	97.6	97.3	97.03
	VOID RATIO	1.264	1.336	1.368	
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		.53	.47	.45	.48
TIME TO FAILURE, MIN.		15	13	16	
STRAIN RATE INCR., %					
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 55	PL 21	PI 34	GS 2.70 (ESTIMATED)	UNDISTURBED SPECIMEN	Q TEST

REMARKS:

PROJECT INTRACOASTAL WATERWAY LOCKS, LA

BAYOU SORREL LOCK

BORING NO. 8BYSU | SAMPLE NO. 10C

DEPTH/ELEV 36.6/-30.6 | TECH. US

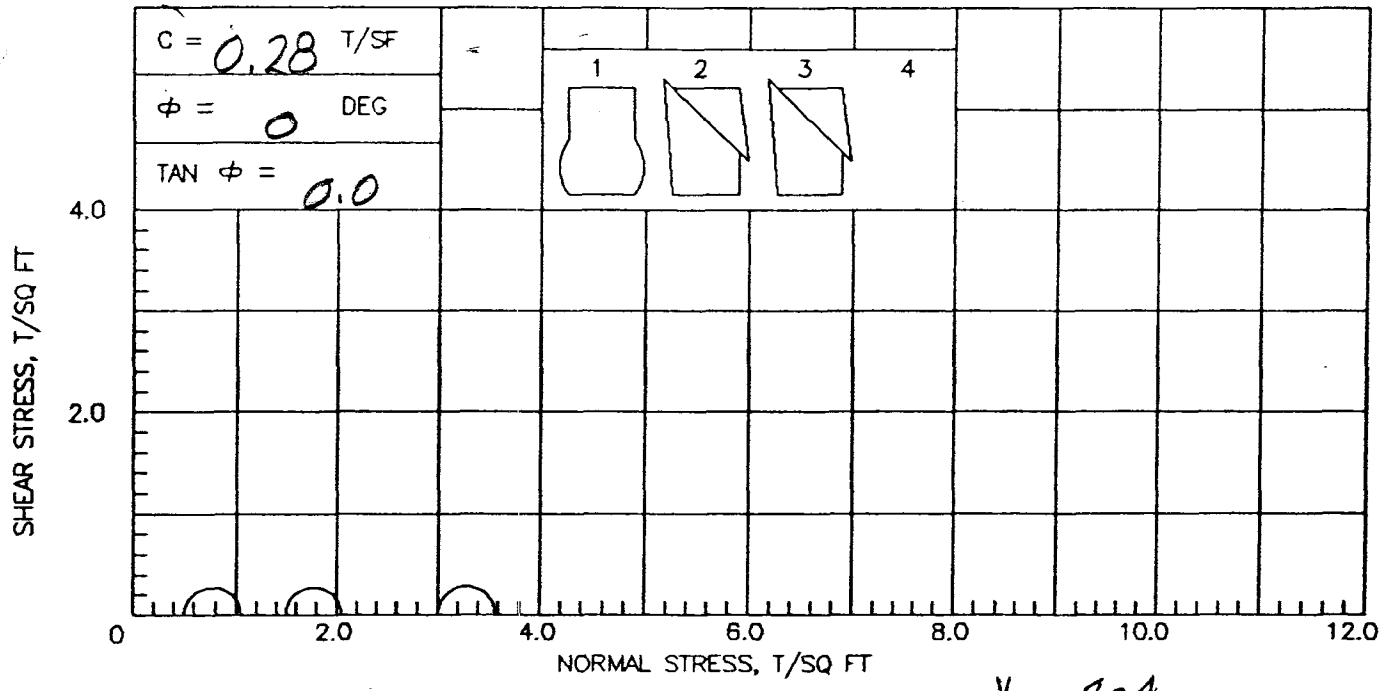
LABORATORY USAE WES - STF/GL | DATE 16 MAY 95

TRIAXIAL COMPRESSION TEST REPORT

C = 0.28 T/SF

ϕ = 0 DEG

TAN ϕ = 0.0



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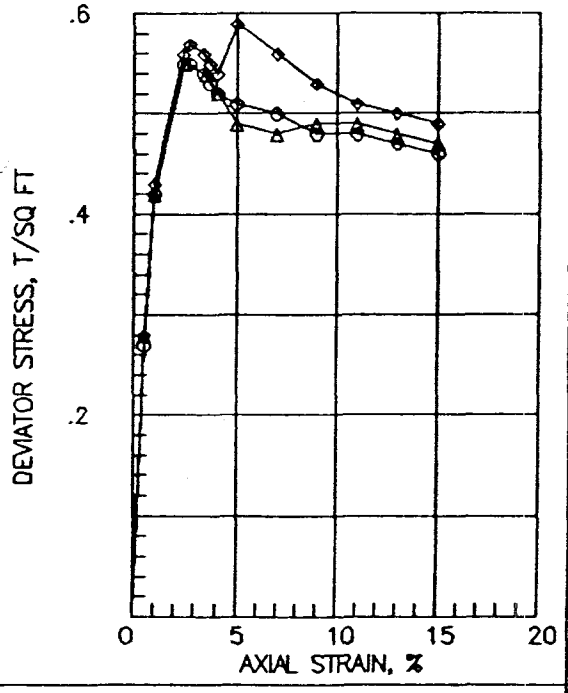


SPECIMEN NO.		○ 1	△ 2	◇ 3	4
INITIAL	WATER CONTENT, %	58.2	53.2	54.8	55.40
	DRY DENSITY, PCF	64.9	68.2	67.0	66.70
	SATURATION, %	98.3	97.5	97.7	97.83
	VOID RATIO	1.598	1.472	1.516	
BEFORE SHEAR	WATER CONTENT, %				
	DRY DENSITY, PCF				
	SATURATION, %				
	VOID RATIO				
	BACK PRESSURE, TSF				
CHAMBER PRESSURE, TSF		.50	1.50	3.00	
MAX. DEV. STRESS, TSF		.55	.55	.57	.56
TIME TO FAILURE, MIN.		5	12	14	
STRAIN RATE INCR., %			7	4	
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 77	PL 23	PI 54	GS 2.70 (ESTIMATED)	UNDISTURBED SPECIMEN	Q TEST

REMARKS:

PROJECT INTRACOASTAL WATERWAY LOCKS, LA

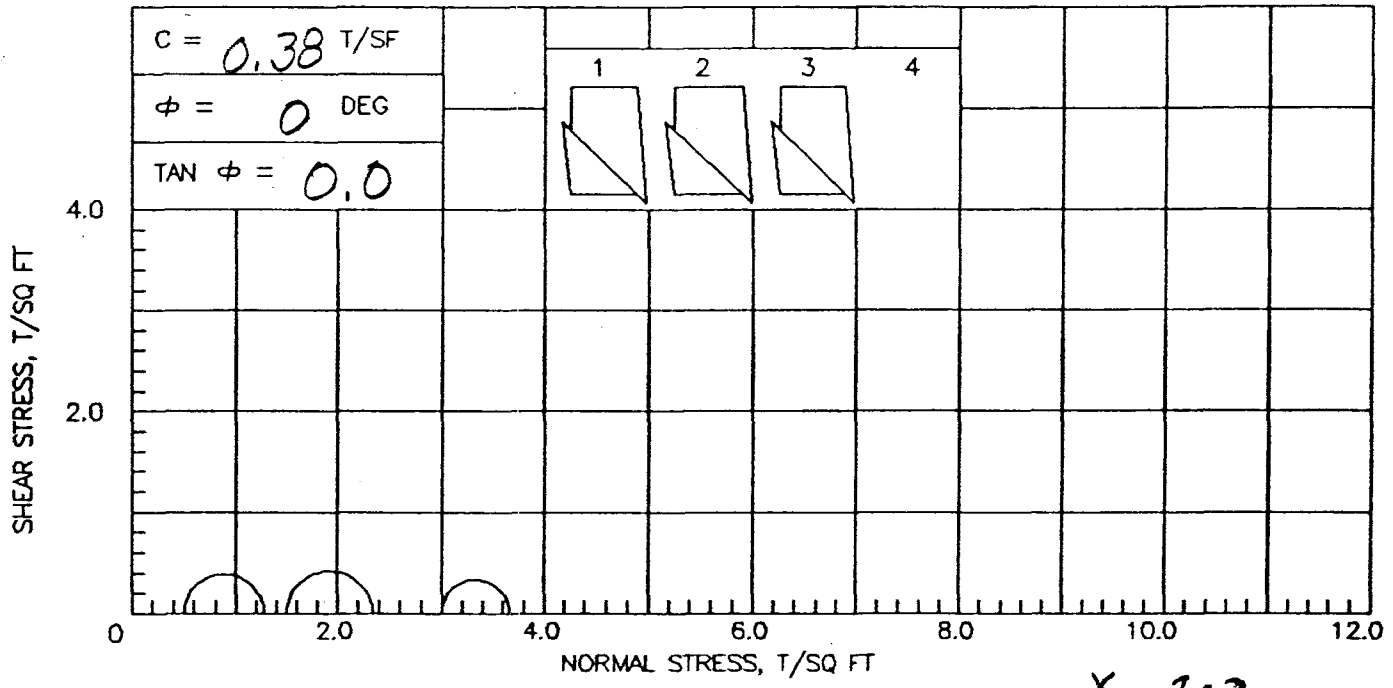
BAYOU SORREL LOCK

BORING NO. 8BYSU | SAMPLE NO. 13C

DEPTH/ELEV 48.5/-42.5 | TECH. JH

LABORATORY USAE WES - STF/GL | DATE 19 MAY 95

TRIAXIAL COMPRESSION TEST REPORT



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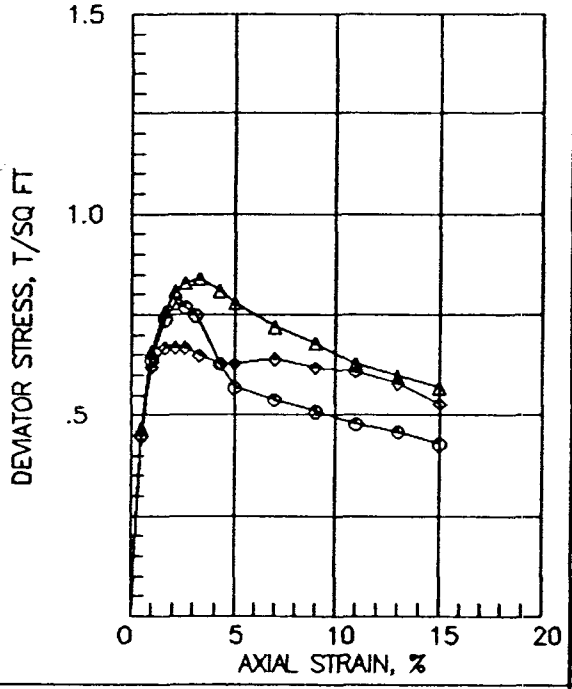


SPECIMEN NO.		○ 1	△ 2	◇ 3	4
INITIAL	WATER CONTENT, %	58.6	57.5	58.1	58.07
	DRY DENSITY, PCF	63.9	64.8	64.3	64.33
	SATURATION, %	96.7	97.0	96.6	96.77
	VOID RATIO	1.636	1.601	1.622	
BEFORE SHEAR	WATER CONTENT, %				
	DRY DENSITY, PCF				
	SATURATION, %				
	VOID RATIO				
	BACK PRESSURE, TSF				
CHAMBER PRESSURE, TSF		.50	1.50	3.00	
MAX. DEV. STRESS, TSF		.78	.84	.67	.76
TIME TO FAILURE, MIN.		5	18	9	
STRAIN RATE INCR., %					
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 85	PL 23	PI 62	GS 2.70 (ESTIMATED)	UNDISTURBED SPECIMEN	Q TEST

REMARKS:

PROJECT INTRACOASTAL WATERWAY LOCKS, LA

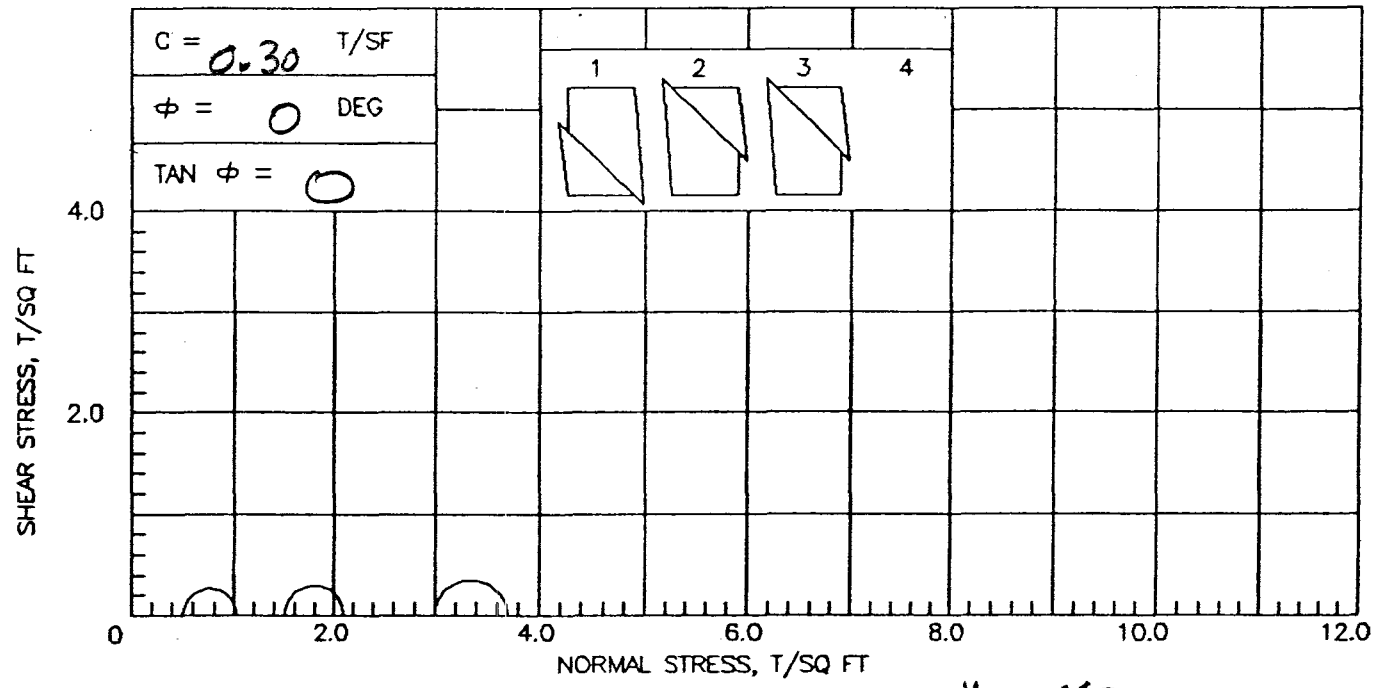
BAYOU SORREL LOCK

BORING NO. 88YSU — SAMPLE NO. 16C

DEPTH/ELEV 60.5/-54.5 — TECH. JH

LABORATORY USAE WES - STF/GL — DATE 19 MAY 95

TRIAXIAL COMPRESSION TEST REPORT



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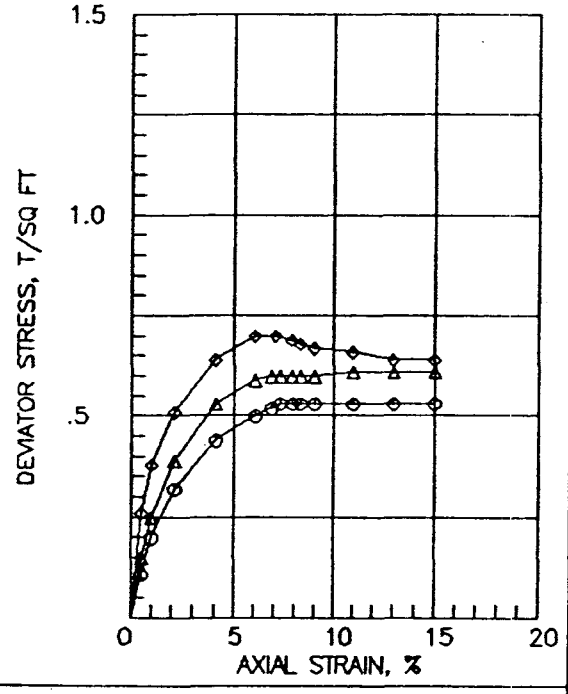


SPECIMEN NO.		○ 1	△ 2	◇ 3	4
INITIAL	WATER CONTENT, %	40.8	40.1	39.3	40.07
	DRY DENSITY, PCF	78.1	79.5	79.9	79.17
	SATURATION, %	95.3	96.6	95.7	95.87
	VOID RATIO	1.158	1.121	1.109	
BEFORE SHEAR	WATER CONTENT, %				
	DRY DENSITY, PCF				
	SATURATION, %				
	VOID RATIO				
	BACK PRESSURE, TSF				
CHAMBER PRESSURE, TSF		.50	1.50	3.00	
MAX. DEV. STRESS, TSF		.53	.60	.70	
TIME TO FAILURE, MIN.		15	14	13	
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; SILT SEAMS

LL 56	PL 19	PI 37	GS 2.70 (ESTIMATED)	UNDISTURBED SPECIMEN	Q TEST

REMARKS:

PROJECT INTRACOASTAL WATERWAY LOCKS, LA

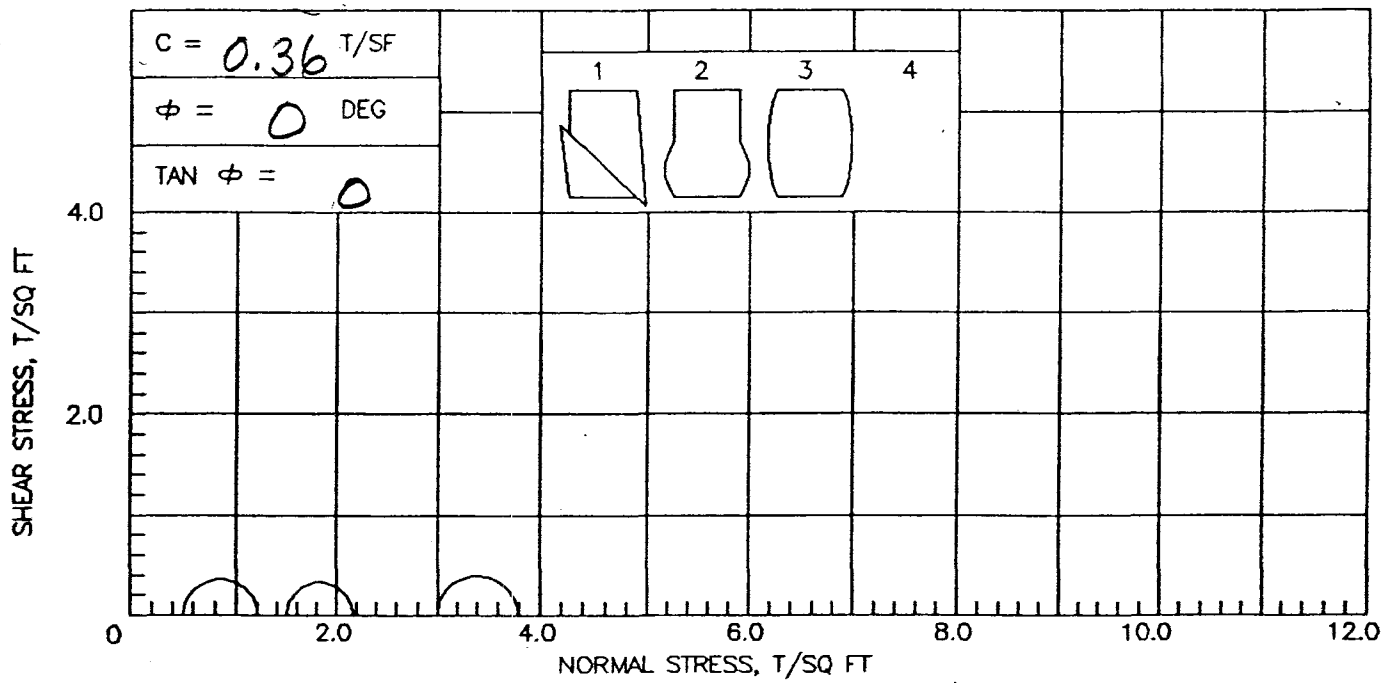
BAYOU SORREL LOCK

BORING NO. 88YSU — SAMPLE NO. 18C

DEPTH/ELEV 68.9/-62.9 — TECH. JH

LABORATORY USAE WES - STF/GL — DATE 23 MAY 95

TRIAXIAL COMPRESSION TEST REPORT



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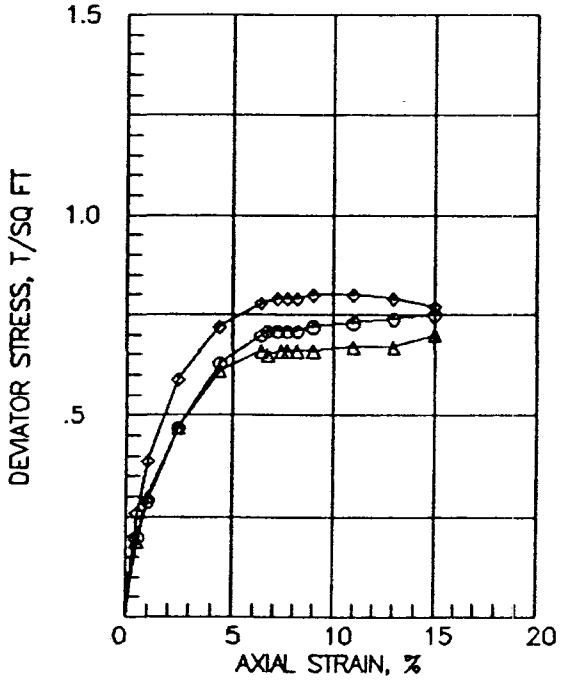


SPECIMEN NO.		○ 1	△ 2	◇ 3	4
INITIAL	WATER CONTENT, %	40.8	44.0	42.0	42.27
	DRY DENSITY, PCF	77.0	74.7	77.1	76.27
	SATURATION, %	92.8	94.5	95.5	94.27
	VOID RATIO	1.188	1.255	1.187	
BEFORE SHEAR	WATER CONTENT, %				
	DRY DENSITY, PCF				
	SATURATION, %				
	VOID RATIO				
	BACK PRESSURE, TSF				
CHAMBER PRESSURE, TSF		.50	1.50	3.00	
MAX. DEV. STRESS, TSF		.71	.66	.79	.72
TIME TO FAILURE, MIN.		13	28	31	
STRAIN RATE INCR., %					
INITIAL DIAMETER, IN.		1.38	1.38	1.37	
INITIAL HEIGHT, IN.		3.00	3.00	3.00	

CONTROLLED-STRAIN TEST

DESCRIPTION OF SPECIMENS: CLAY (CH), GRAY; SILT SEAMS

LL 56	PL 19	PI 37	GS 2.70 (ESTIMATED)	UNDISTURBED SPECIMEN	Q TEST

REMARKS:

PROJECT INTRACOASTAL WATERWAY LOCKS, LA

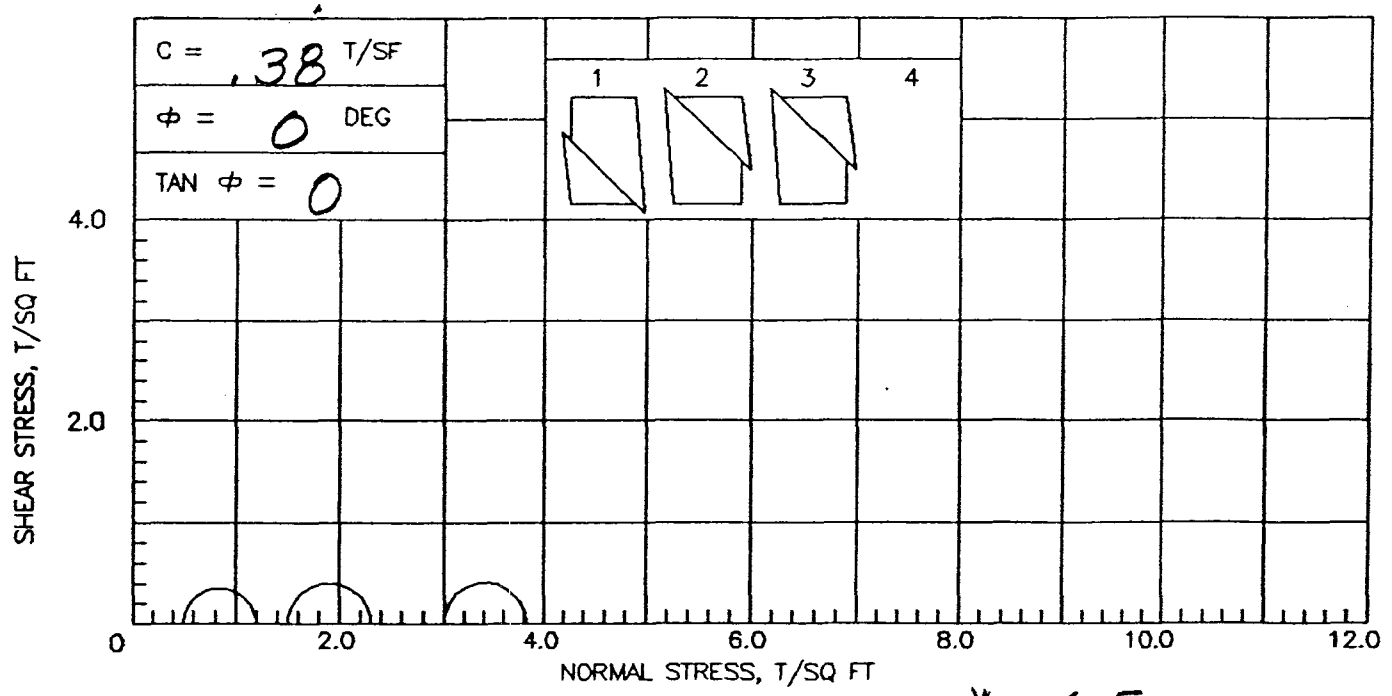
BAYOU SORREL LOCK

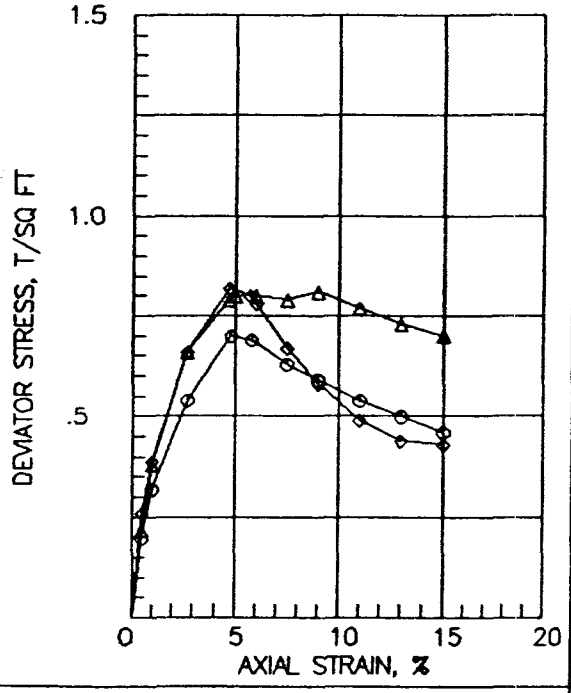
BORING NO. 8BYSU — SAMPLE NO. 19B

DEPTH/ELEV 72.4/-66.4 — TECH. GM

LABORATORY USAE WES - STF/GL — DATE 19 MAY 95

TRIAXIAL COMPRESSION TEST REPORT





$\gamma = 105$

SPECIMEN NO.		○ 1	△ 2	◇ 3	4
INITIAL	WATER CONTENT, %	53.4	52.1	53.5	53.00
	DRY DENSITY, PCF	67.3	68.0	67.4	67.57
	SATURATION, %	95.8	95.1	96.3	95.73
	VOID RATIO	1.506	1.479	1.501	
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		.70	.80	.82	.77
TIME TO FAILURE, MIN.		11	22	23	
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; WOOD PARTICLES

LL 83	PL 23	PI 60	GS 2.70 (ESTIMATED)	UNDISTURBED SPECIMEN	Q TEST

REMARKS:

PROJECT INTRACOASTAL WATERWAY LOCKS, LA

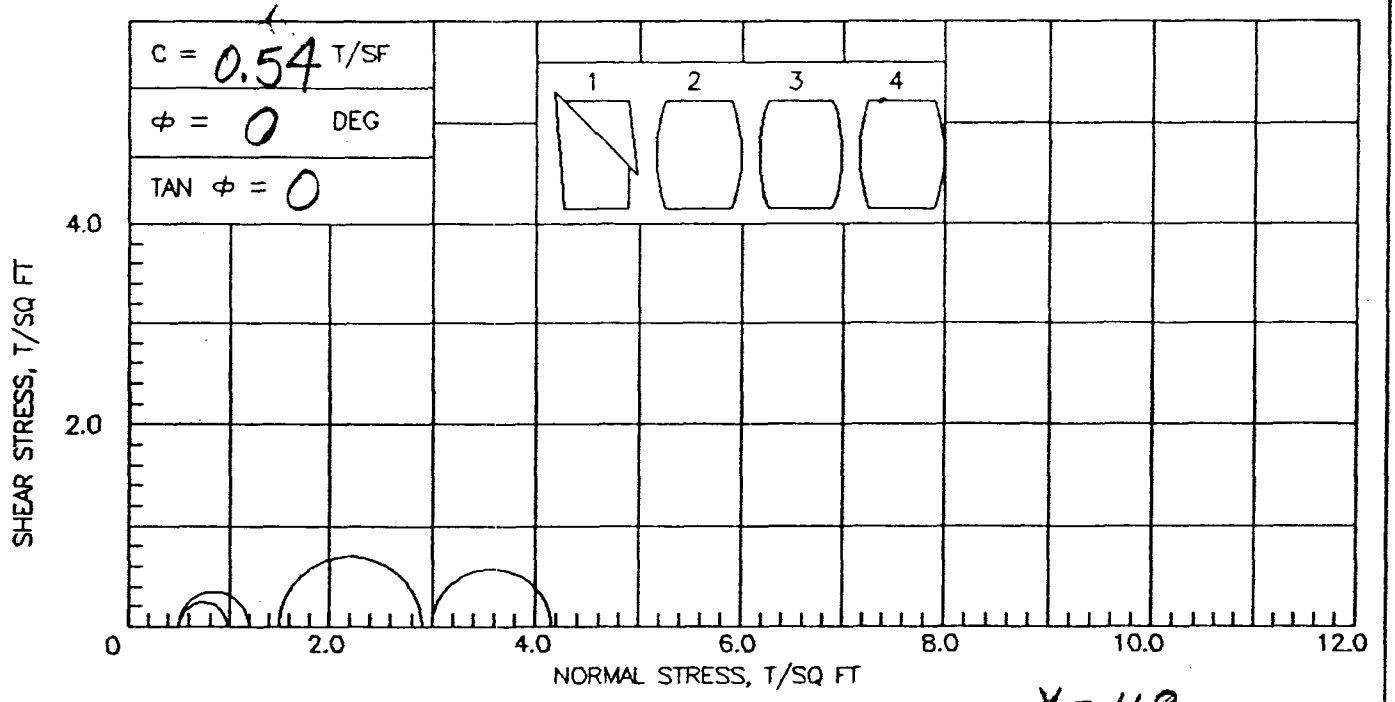
BAYOU SORREL LOCK

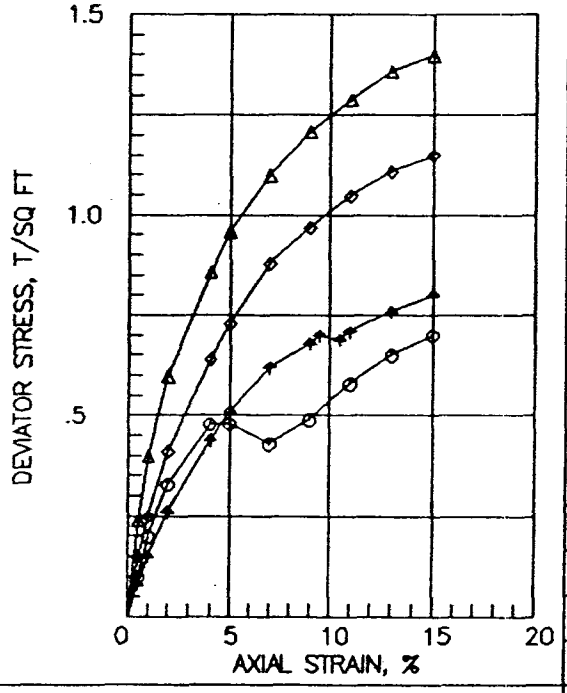
BORING NO. 8BYSU | SAMPLE NO. 21B

DEPTH/ELEV 80.5/-74.5 | TECH. JH

LABORATORY USAE WES - STF/GL | DATE 22 MAY 95

TRIAXIAL COMPRESSION TEST REPORT





γ = 118

	SPECIMEN NO.	○ 1	△ 2	◇ 3	+ 4	
INITIAL	WATER CONTENT, %	28.8	29.0	29.1	29.1	29.06
	DRY DENSITY, PCF	90.7	90.6	90.6	90.0	90.40
	SATURATION, %	91.1	91.4	91.8	90.4	91.20
	VOID RATIO	.851	.853	.854	.865	
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	.48	1.40	1.15	.70	1.08
	TIME TO FAILURE, MIN.	9	60	32	30	
	STRAIN RATE INCR., %					
	INITIAL DIAMETER, IN.	1.36	1.37	1.36	1.38	
	INITIAL HEIGHT, IN.	3.00	3.00	3.00	3.00	

CONTROLLED-STRAIN TEST

DESCRIPTION OF SPECIMENS: SILTY CLAY (CL), GRAY; WOOD PARTICLES

LL 33	PL 22	PI 11	GS 2.69 (ESTIMATED)	UNDISTURBED SPECIMEN	Q TEST

REMARKS:

PROJECT INTRACOASTAL WATERWAY LOCKS, LA

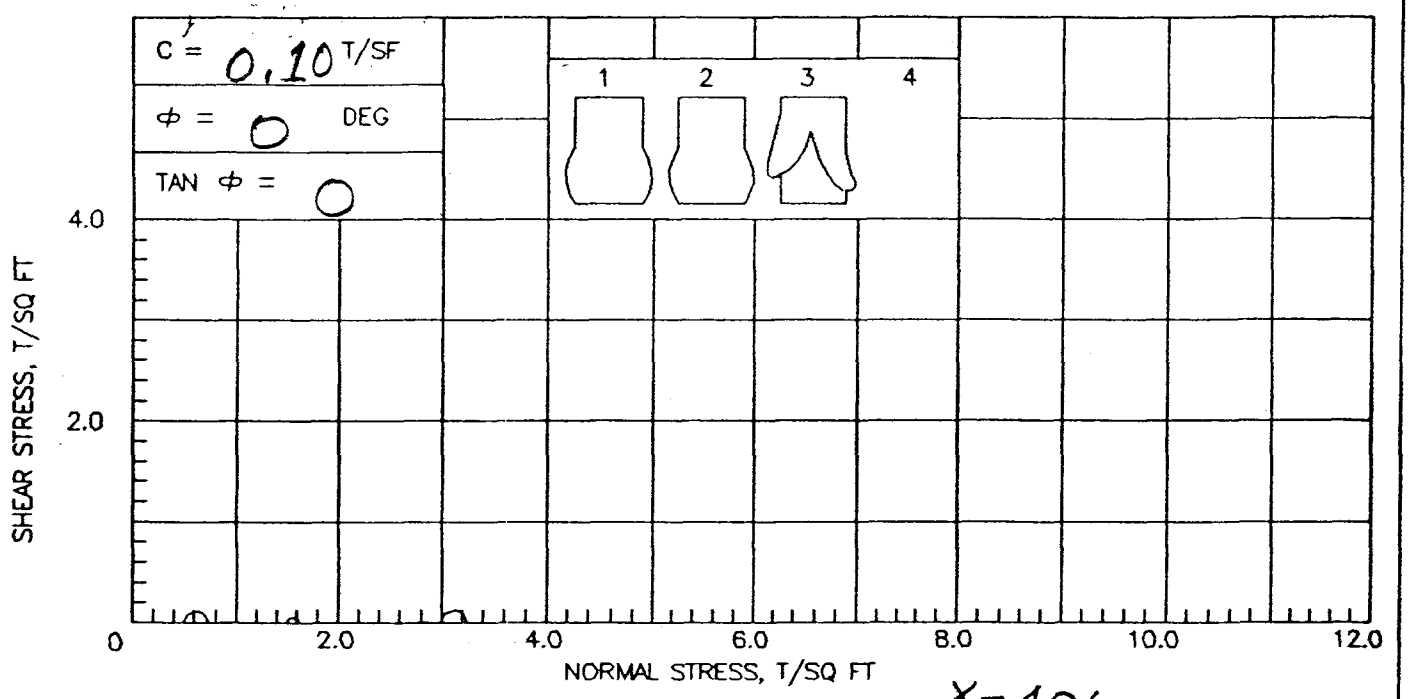
BAYOU SORREL LOCK

BORING NO. 8BYSU | SAMPLE NO. 28C

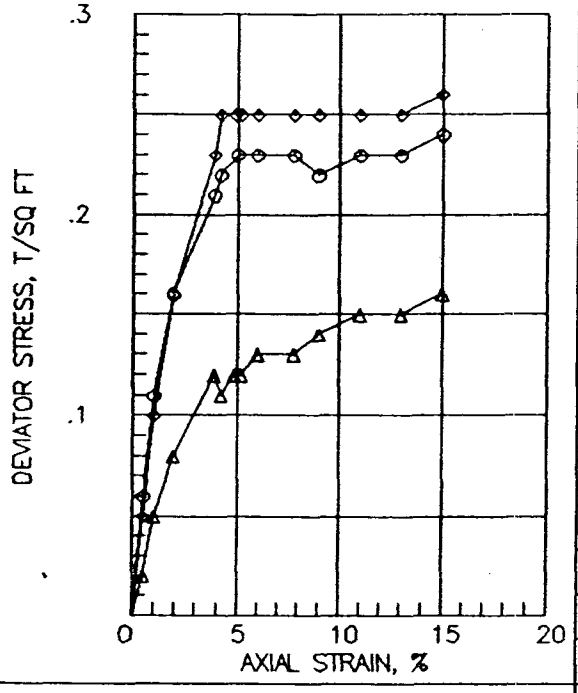
DEPTH/ELEV 109.0/-103.0 | TECH. JH

LABORATORY USAE WES - STF/GL | DATE 22 MAY 95

TRIAXIAL COMPRESSION TEST REPORT



$\gamma = 106$



SPECIMEN NO.		⊙ 1	△ 2	◇ 3	4
INITIAL	WATER CONTENT, %	49.0	56.5	45.8	50.43
	DRY DENSITY, PCF	70.9	64.6	73.3	69.60
	SATURATION, %	96.0	94.7	95.3	93.33
	VOID RATIO	1.376	1.609	1.299	
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		.23	.12	.25	.20
TIME TO FAILURE, MIN.		11	15	20	
STRAIN RATE INCR., %			7		
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 54	PL 21	PI 33	GS 2.70 (ESTIMATED)	UNDISTURBED SPECIMEN	Q TEST

REMARKS:

PROJECT INTRACOASTAL WATERWAY LOCKS, LA

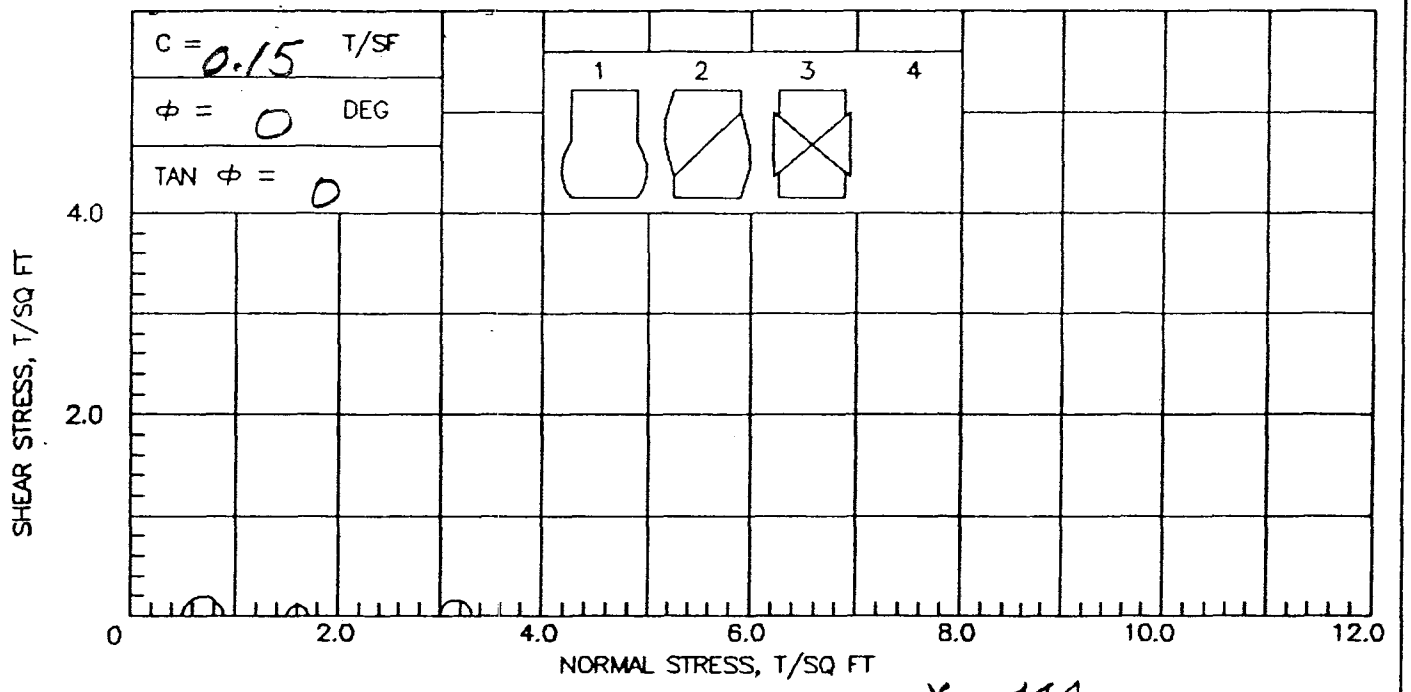
BAYOU SORREL LOCK

BORING NO. 9BYSU | SAMPLE NO. 4C

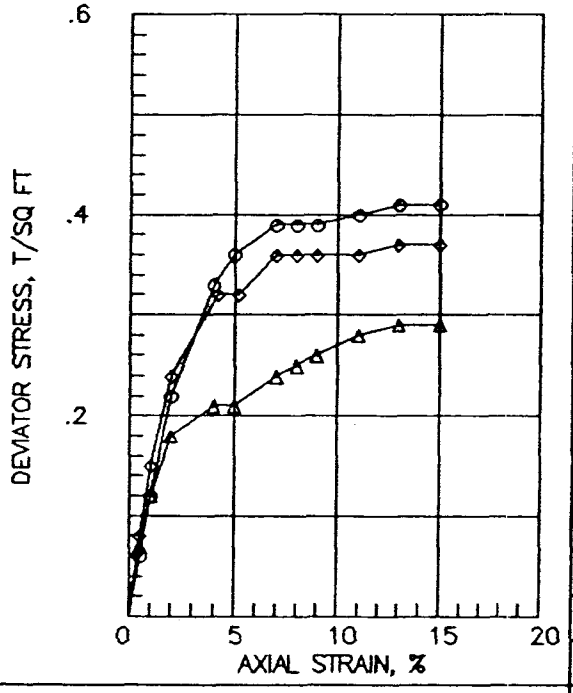
DEPTH/ELEV 13.0/-8.1 | TECH. JH

LABORATORY USAE WES - STF/GL | DATE 23 MAY 95

TRIAXIAL COMPRESSION TEST REPORT



γ = 114



	SPECIMEN NO.	○ 1	△ 2	◇ 3	4
INITIAL	WATER CONTENT, %	36.0	38.3	38.4	37.57
	DRY DENSITY, PCF	84.3	81.7	81.2	82.40
	SATURATION, %	97.2	97.3	96.4	96.99
	VOID RATIO	1.000	1.062	1.075	
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		.39	.21	.32	.31
TIME TO FAILURE, MIN.		15	13	21	
STRAIN RATE INCR., %			5	6	
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 (CL), GRAY

LL 42	PL 18	PI 24	GS 2.70 (ESTIMATED)	UNDISTURBED SPECIMEN	Q TEST

REMARKS:

PROJECT INTRACOASTAL WATERWAY LOCKS, LA

BAYOU SORREL LOCK

BORING NO. 9BYSU | SAMPLE NO. 6D

DEPTH/ELEV 21.8/-16.9 | TECH. JH

LABORATORY USAE WES - STF/GL | DATE 24 MAY 95

TRIAXIAL COMPRESSION TEST REPORT