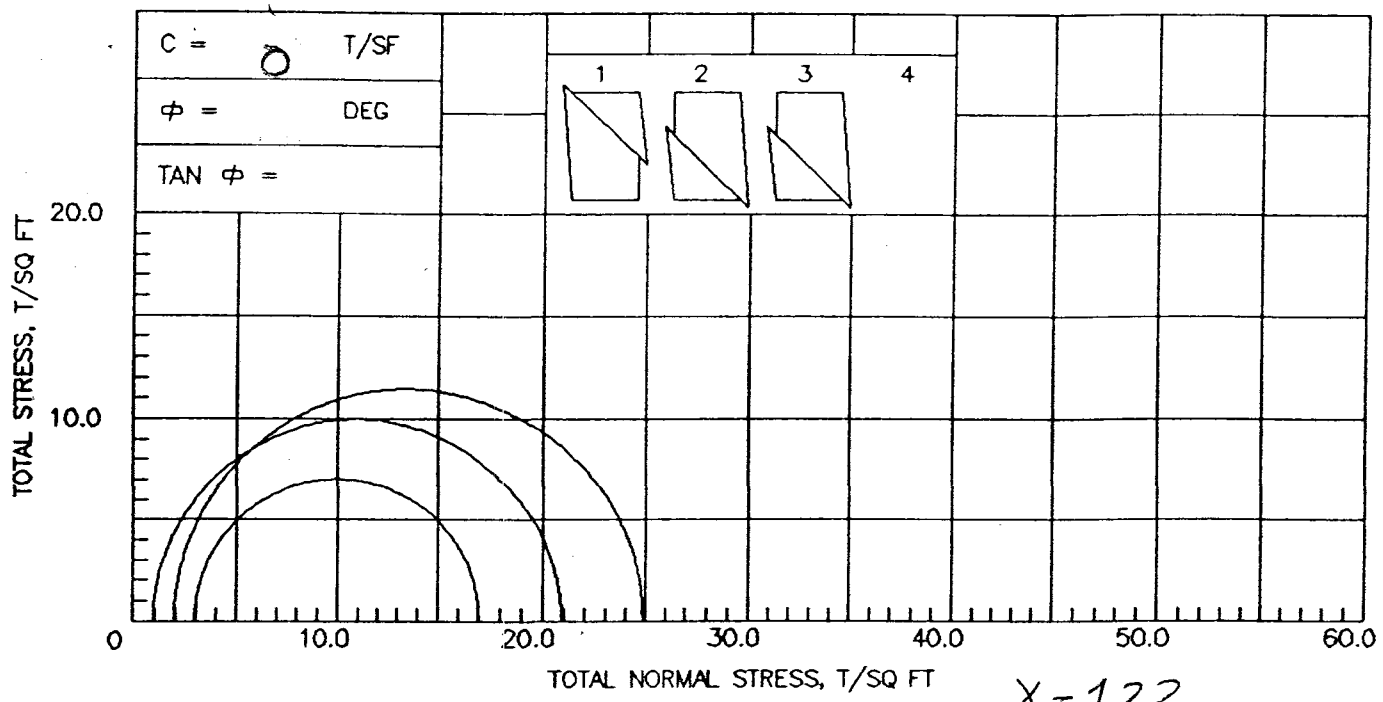

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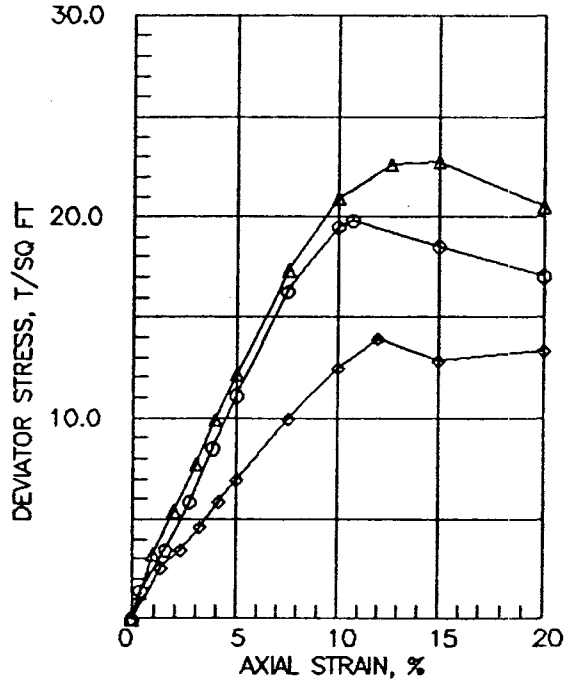


SPECIMEN NO.		⊙ 1	△ 2	◇ 3	4
INITIAL	WATER CONTENT, %	26.9	27.3	27.5	27.23
	DRY DENSITY, PCF	97.3	95.4	95.3	96.55
	SATURATION, %	100+	97.6	97.9	98.50
	VOID RATIO	.713	.748	.750	
BEFORE SHEAR	WATER CONTENT, %	29.3	29.0	30.2	
	DRY DENSITY, PCF	98.5	97.2	98.1	
	SATURATION, %	100+	100+	100+	
	VOID RATIO	.693	.715	.699	
	BACK PRESS., TSF	5.04	5.04	5.04	
MIN. PRIN. STRESS, TSF		1.00	2.00	3.00	
MAX. DEV. STRESS, TSF		19.84	22.78	13.96	
TIME TO FAILURE, MIN.		730	1027	825	
RATE OF STRAIN, %/MIN		.015	.015	.015	
INITIAL DIAMETER, IN.		1.37	1.37	1.37	
INITIAL HEIGHT, IN.		3.00	3.00	3.00	

CONTROLLED–STRAIN TEST

DESCRIPTION OF SPECIMENS: SILTY SAND (SM), GRAY

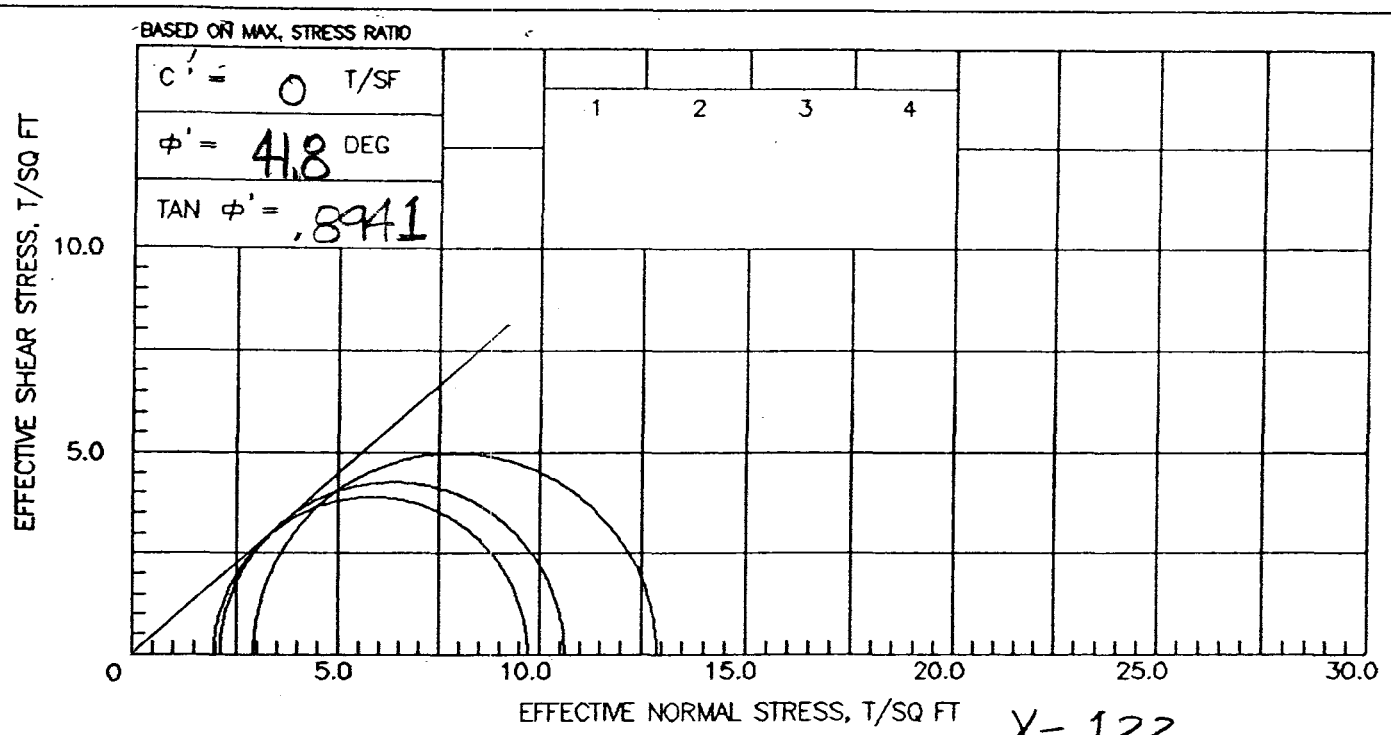
LL	PL	PI	GS 2.67 (ESTIMATED)	UNDISTURBED SPECIMEN	$\bar{R}$ TEST

REMARKS:

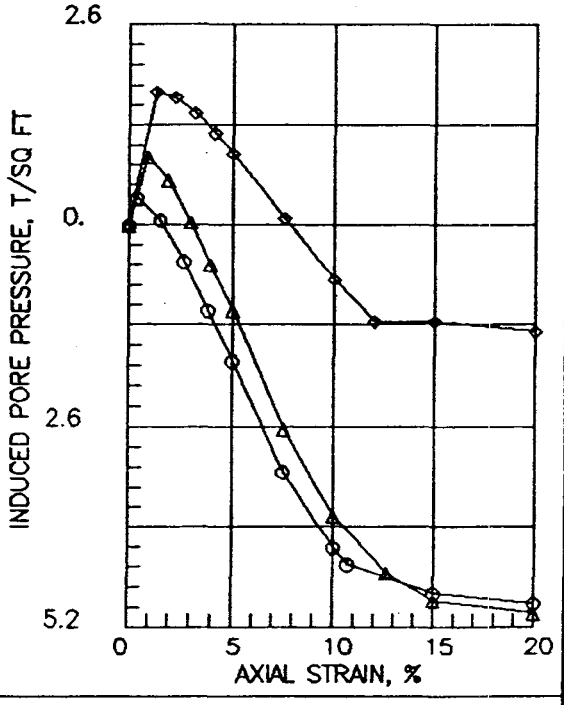
CASE I DESIGN SHEAR STRENGTH
c = 0, φ = φ' = 41.8° As per
MVD Letter 20 Dec 83
φ' from stress path

PROJECT	INTRACOASTAL WATERWAY LOCKS, LA
	BAYOU SORREL LOCK
BORING NO. 1 BYSU	SAMPLE NO. 15B
DEPTH/ELEV 56/–24.6	TECH. US
LABORATORY USAE WES – STF/GL	DATE 23 JUN 94

$\bar{R}$–TRIAXIAL COMPRESSION TEST REPORT



γ = 122



SPECIMEN NO.		⊙ 1	△ 2	◇ 3	4
INITIAL	WATER CONTENT, %	26.9	27.3	27.5	27.23
	DRY DENSITY, PCF	97.3	95.4	95.3	96.00
	SATURATION, %	100+	97.6	97.9	98.50
	VOID RATIO	.713	.748	.750	
BEFORE SHEAR	WATER CONTENT, %	29.3	29.0	30.2	
	DRY DENSITY, PCF	98.5	97.2	98.1	
	SATURATION, %	100+	100+	100+	
	VOID RATIO	.693	.715	.699	
	BACK PRESS., TSF	5.04	5.04	5.04	
@ σ_1'/σ_3' MAX	MIN PRIN EFF STRESS, TSF	2.11	1.96	2.91	
	DEV. STRESS, TSF	8.51	7.76	9.96	
	TIME TO FAILURE, MIN.	260	204	517	
RATE OF STRAIN, %/MIN		.015	.015	.015	
INITIAL DIAMETER, IN.		1.37	1.37	1.37	
INITIAL HEIGHT, IN.		3.00	3.00	3.00	

CONTROLLED-STRAIN TEST

DESCRIPTION OF SPECIMENS: SILTY SAND (SM), GRAY

LL	PL	PI	GS 2.67 (ESTIMATED)	UNDISTURBED SPECIMEN	$\bar{R}$ TEST

REMARKS:

PROJECT INTRACOASTAL WATERWAY LOCKS, LA

BAYOU SORREL LOCK

BORING NO. 1 BYSU | SAMPLE NO. 15B

DEPTH/ELEV 56/-24.6 | TECH. US

LABORATORY USAE WES - STF/GL | DATE 23 JUN 94

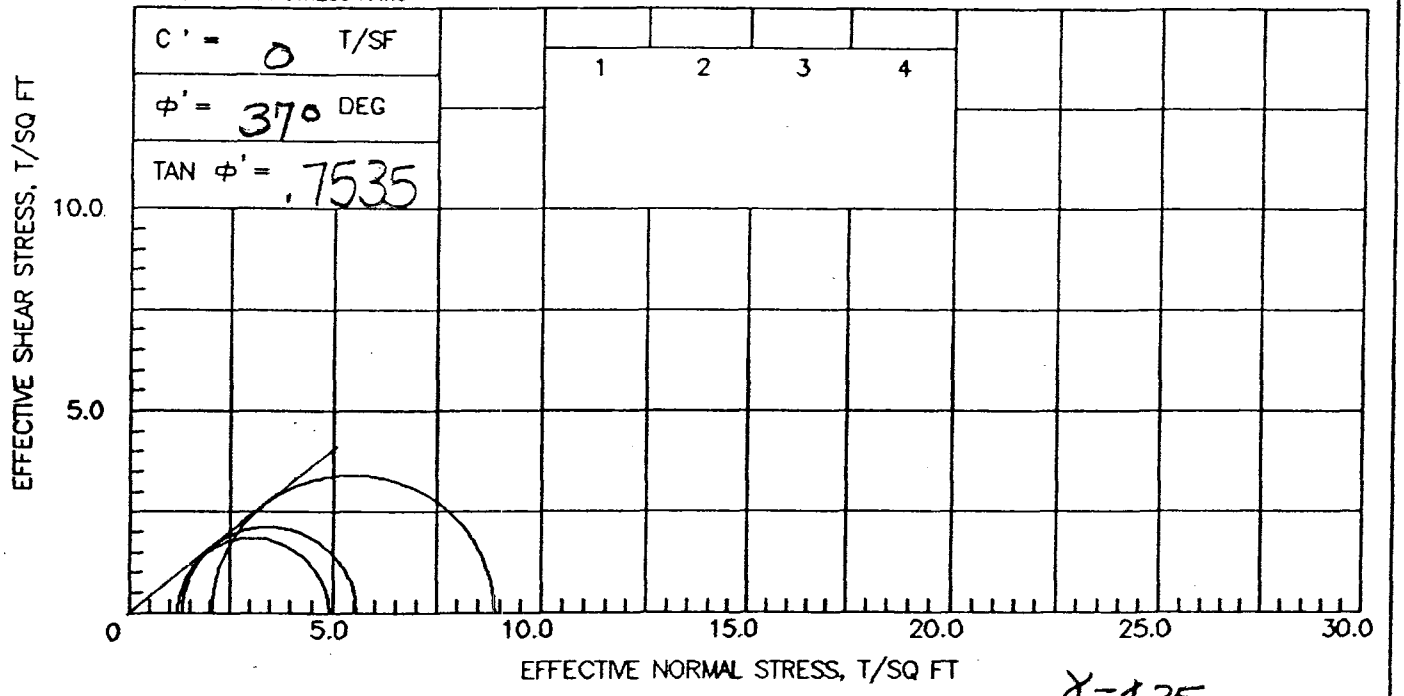
$\bar{R}$-TRIAXIAL COMPRESSION TEST REPORT

BASED ON MAX. STRESS RATIO

C ' = 0 T/SF

ϕ' = 37° DEG

TAN ϕ' = .7535



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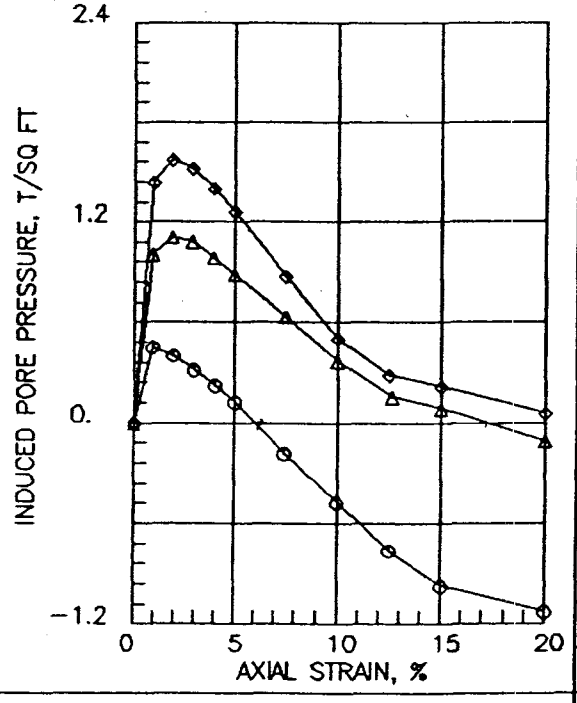


	SPECIMEN NO.	⊙ 1	△ 2	◇ 3	4
INITIAL	WATER CONTENT, %	31.6	32.1	31.3	31.66
	DRY DENSITY, PCF	95.1	94.6	94.5	94.73
	SATURATION, %	100+	100+	100+	100
	VOID RATIO	.759	.769	.771	
BEFORE SHEAR	WATER CONTENT, %	30.1	29.5	29.9	
	DRY DENSITY, PCF	97.0	98.2	98.5	
	SATURATION, %	100+	100+	100+	
	VOID RATIO	.725	.704	.698	
	BACK PRESS., TSF	4.32	4.32	4.32	
● σ_1'/σ_3' MAX	MIN PRIN EFF STRESS, TSF	1.19	1.31	2.05	
	DEV. STRESS, TSF	3.71	4.25	6.83	
	TIME TO FAILURE, MIN.	482	488	488	
RATE OF STRAIN, %/MIN		.016	.016	.016	
INITIAL DIAMETER, IN.		1.33	1.32	1.33	
INITIAL HEIGHT, IN.		3.00	3.00	3.00	

CONTROLLED-STRAIN TEST

DESCRIPTION OF SPECIMENS: SILT (ML), GRAY

LL	PL	PI	GS 2.68 (ESTIMATED)	UNDISTURBED SPECIMEN	$\bar{R}$ TEST

REMARKS:

CASE V DESIGN SHEAR STRENGTH
ϕ' from stress path

PROJECT INTRACOASTAL WATERWAY LOCKS, LA

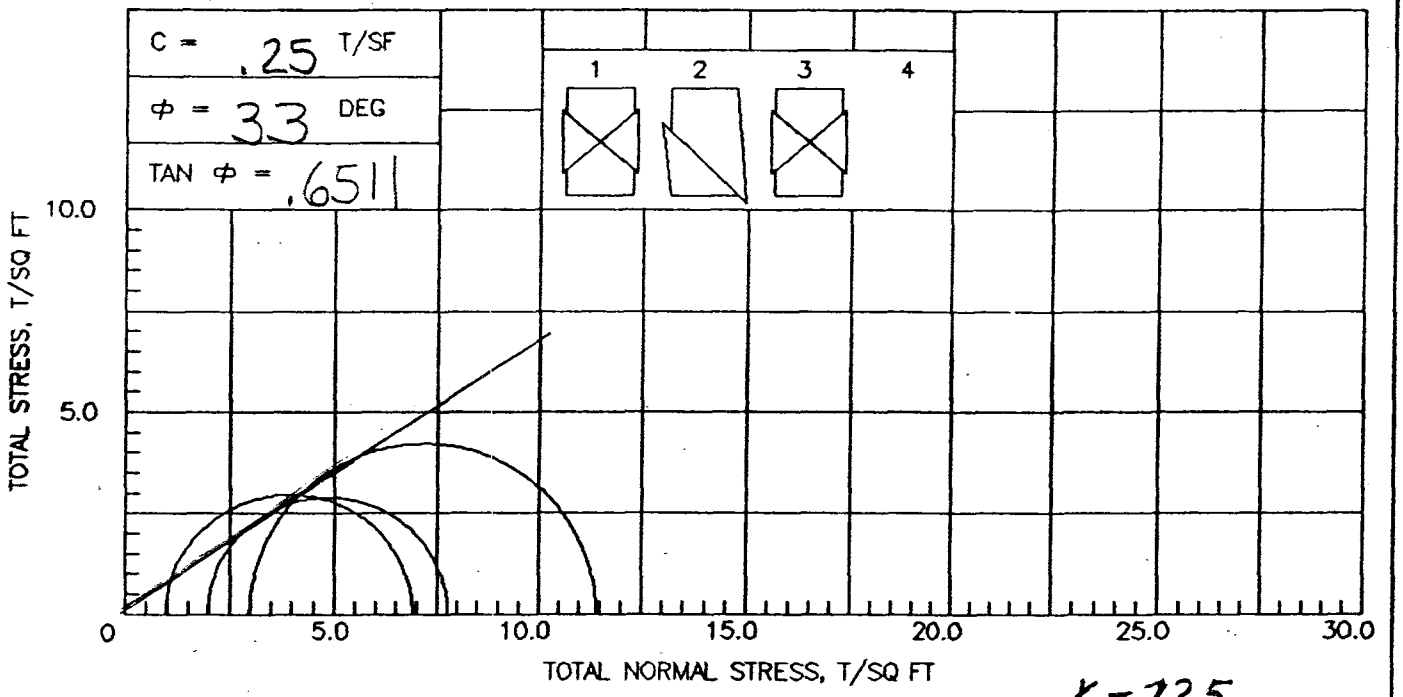
BAYOU SORREL LOCK

BORING NO. 2 BYSU | SAMPLE NO. 9C

DEPTH/ELEV 33.3/−16.6 | TECH. US

LABORATORY USAE WES – STF/GL | DATE 28 OCT 94

$\bar{R}$-TRIAXIAL COMPRESSION TEST REPORT



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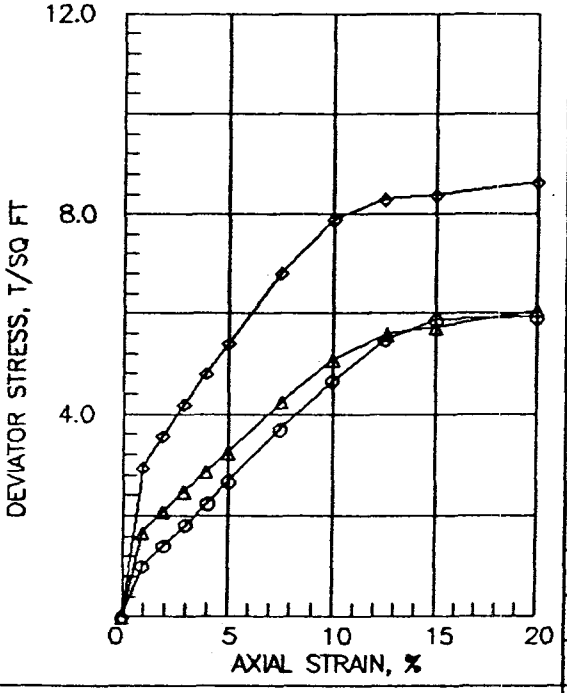


SPECIMEN NO.		⊙ 1	△ 2	◇ 3	4
INITIAL	WATER CONTENT, %	31.6	32.1	31.3	31.66
	DRY DENSITY, PCF	95.1	94.6	94.5	94.73
	SATURATION, %	100+	100+	100+	100
	VOID RATIO	.759	.769	.771	
BEFORE SHEAR	WATER CONTENT, %	30.1	29.5	29.9	
	DRY DENSITY, PCF	97.0	98.2	98.5	
	SATURATION, %	100+	100+	100+	
	VOID RATIO	.725	.704	.698	
	BACK PRESS., TSF	4.32	4.32	4.32	
MIN. PRIN. STRESS, TSF		1.00	2.00	3.00	
MAX. DEV. STRESS, TSF		5.87	5.73	8.39	
TIME TO FAILURE, MIN.		966	972	972	
RATE OF STRAIN, %/MIN		.016	.016	.016	
INITIAL DIAMETER, IN.		1.33	1.32	1.33	
INITIAL HEIGHT, IN.		3.00	3.00	3.00	

CONTROLLED-STRAIN TEST

DESCRIPTION OF SPECIMENS: SILT (ML), GRAY

LL	PL	PI	GS 2.68 (ESTIMATED)	UNDISTURBED SPECIMEN	$\bar{R}$ TEST

REMARKS:

CASE V (Design Shear Strengths)

PROJECT INTRACOASTAL WATERWAY LOCKS, LA

BAYOU SORREL LOCK

BORING NO. 2 BYSU | SAMPLE NO. 9C

DEPTH/ELEV 33.3/-16.6 | TECH. US

LABORATORY USAE WES - STF/GL | DATE 28 OCT 94

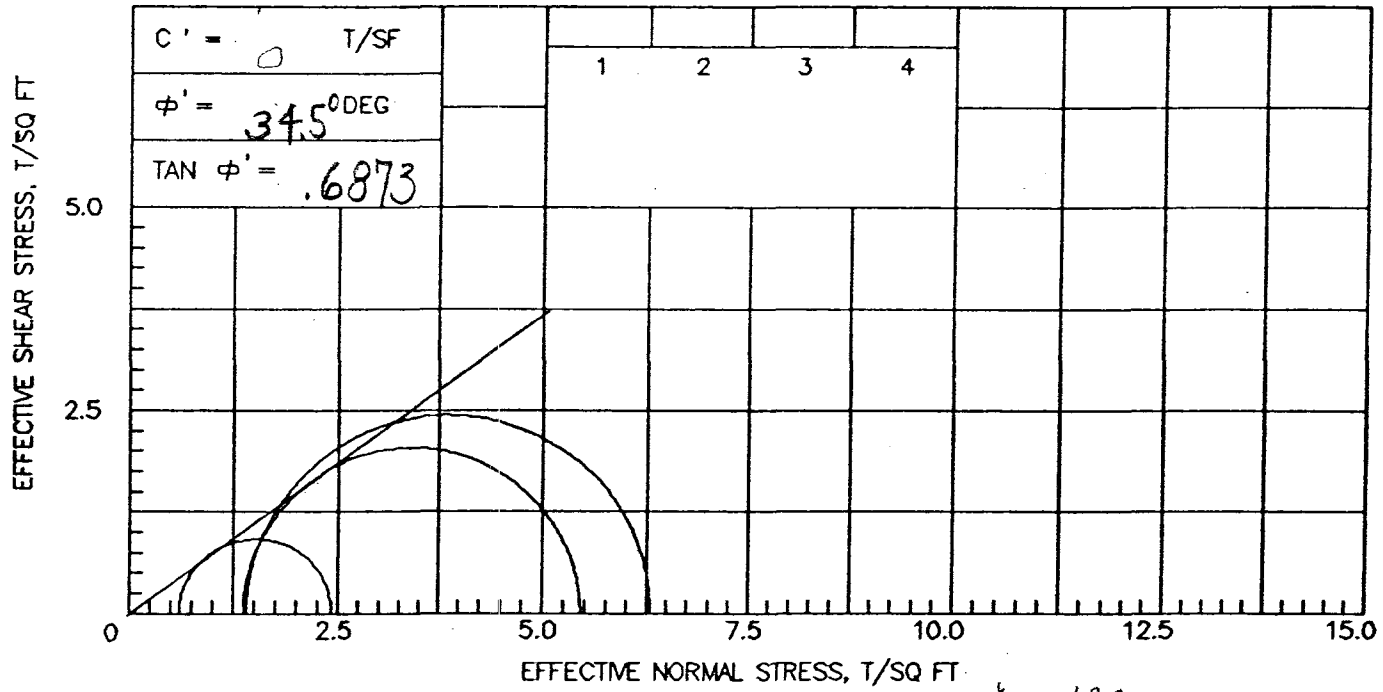
$\bar{R}$-TRIAXIAL COMPRESSION TEST REPORT

BASED ON MAX. STRESS RATIO

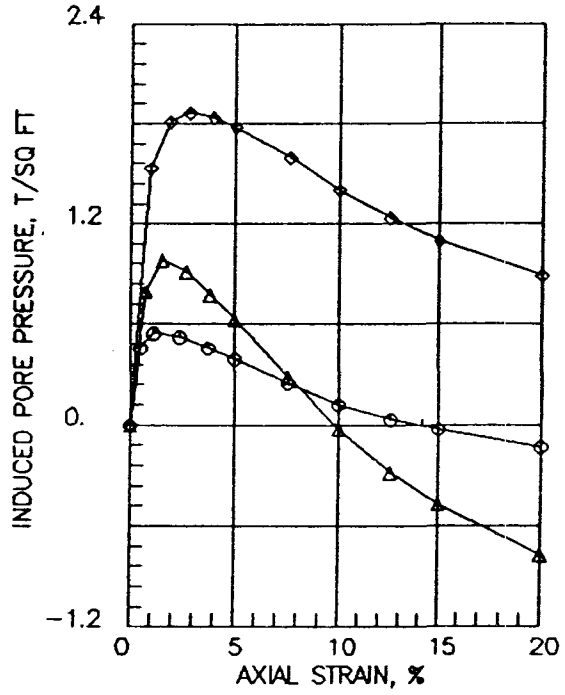
C ' = 0 T/SF

φ' = 34.5 DEG

TAN φ' = .6873



γ = 120



	SPECIMEN NO.	⊙ 1	△ 2	◇ 3	4
INITIAL	WATER CONTENT, %	34.8	29.3	34.8	32.99
	DRY DENSITY, PCF	88.3	95.1	88.4	90.66
	SATURATION, %	100+	100+	100+	100
	VOID RATIO	.902	.766	.900	
BEFORE SHEAR	WATER CONTENT, %	33.4	28.0	31.9	
	DRY DENSITY, PCF	90.4	97.6	93.4	
	SATURATION, %	100+	100+	100+	
	VOID RATIO	.857	.721	.797	
	BACK PRESS., TSF	4.32	4.32	4.32	
@ r_1'/r_3' MAX	MIN PRIN EFF STRESS, TSF	.60	1.37	1.40	
	DEV. STRESS, TSF	1.83	4.08	4.89	
	TIME TO FAILURE, MIN.	322	322	494	
RATE OF STRAIN, %/MIN		.016	.016	.016	
INITIAL DIAMETER, IN.		1.35	1.36	1.35	
INITIAL HEIGHT, IN.		3.00	3.00	3.00	

CONTROLLED-STRAIN TEST

DESCRIPTION OF SPECIMENS: SILTY CLAY (CL), GRAY

LL	PL	PI	GS 2.69 (ESTIMATED)	UNDISTURBED SPECIMEN	$\bar{R}$ TEST

REMARKS:

CASE V DESIGN SHEAR STRENGTHS

PROJECT INTRACOASTAL WATERWAY LOCKS, LA

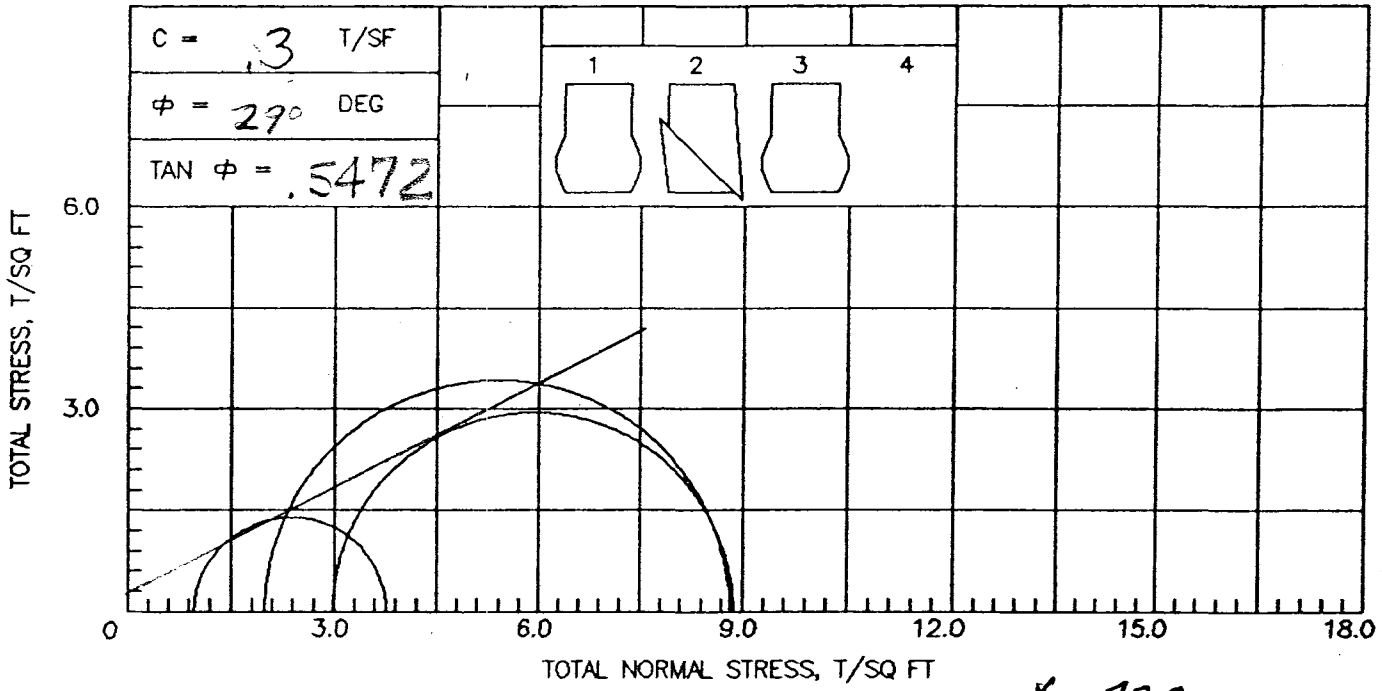
BAYOU SORREL LOCK

BORING NO. 3 BYSU | SAMPLE NO. 12C

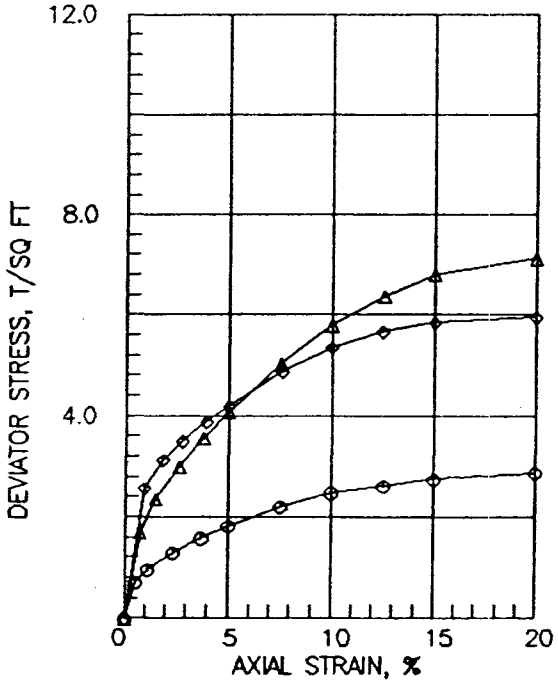
DEPTH/ELEV 45.1/-21.0 | TECH. US

LABORATORY USAE WES - STF/GL | DATE 30 JUN 94

$\bar{R}$-TRIAXIAL COMPRESSION TEST REPORT



γ = 120



SPECIMEN NO.		⊙ 1	△ 2	◇ 3	4
INITIAL	WATER CONTENT, %	34.8	29.3	34.8	32.97
	DRY DENSITY, PCF	88.3	95.1	88.4	90.60
	SATURATION, %	100+	100+	100+	100
	VOID RATIO	.902	.766	.900	
BEFORE SHEAR	WATER CONTENT, %	33.4	28.0	31.9	
	DRY DENSITY, PCF	90.4	97.6	93.4	
	SATURATION, %	100+	100+	100+	
	VOID RATIO	.857	.721	.797	
	BACK PRESS., TSF	4.32	4.32	4.32	
MIN. PRIN. STRESS, TSF		1.00	2.00	3.00	
MAX. DEV. STRESS, TSF		2.76	6.81	5.86	
TIME TO FAILURE, MIN.		967	967	978	
RATE OF STRAIN, %/MIN		.016	.016	.016	
INITIAL DIAMETER, IN.		1.35	1.36	1.35	
INITIAL HEIGHT, IN.		3.00	3.00	3.00	

CONTROLLED-STRAIN TEST

DESCRIPTION OF SPECIMENS: SILTY CLAY (CL), GRAY

LL	PL	PI	GS 2.69 (ESTIMATED)	UNDISTURBED SPECIMEN	$\bar{R}$ TEST

REMARKS:

CASE V Design Shear Strengths Silts.

PROJECT INTRACOASTAL WATERWAY LOCKS, LA

BAYOU SORREL LOCK

BORING NO. 3 BYSU | SAMPLE NO. 12C

DEPTH/ELEV 45.1/-21.0 | TECH. US

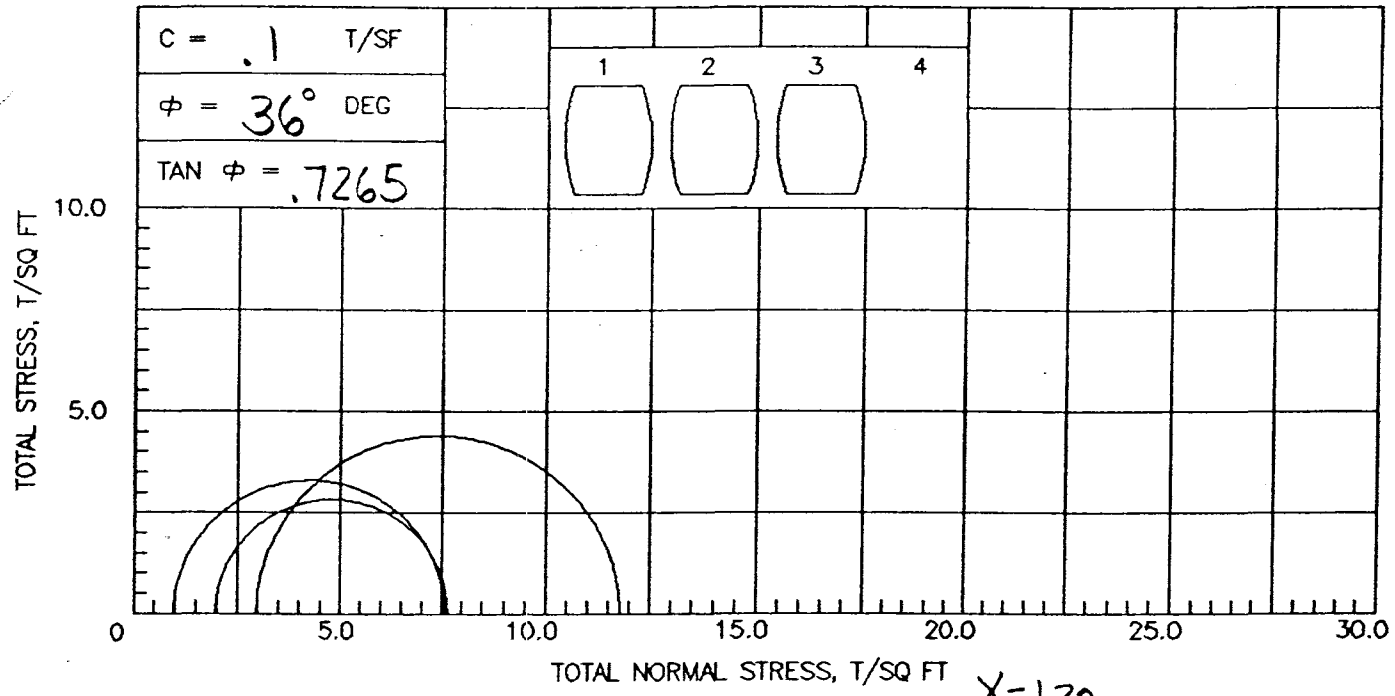
LABORATORY USAE WES - STF/GL | DATE 30 JUN 94

$\bar{R}$-TRIAXIAL COMPRESSION TEST REPORT

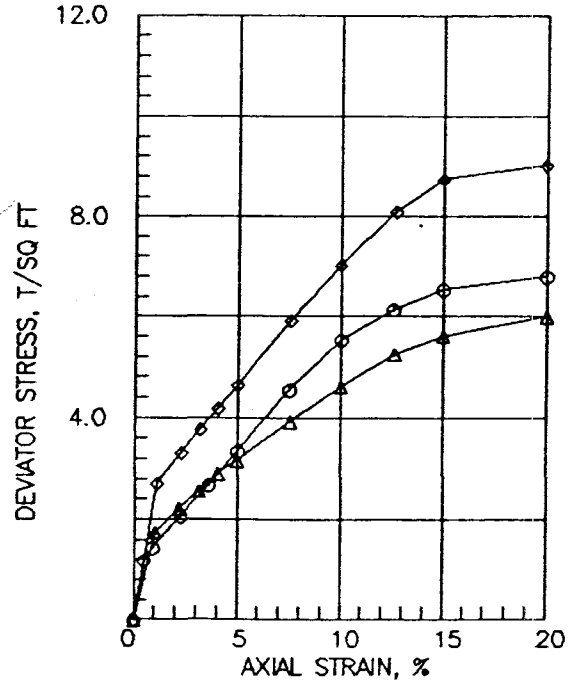
C = .1 T/SF

ϕ = 36° DEG

TAN ϕ = .7265



γ=120



SPECIMEN NO.		⊙ 1	△ 2	◇ 3	4
INITIAL	WATER CONTENT, %	35.2	34.1	33.8	34.36
	DRY DENSITY, PCF	88.5	89.5	90.9	89.63
	SATURATION, %	100+	100+	100+	100
	VOID RATIO	.891	.869	.840	
BEFORE SHEAR	WATER CONTENT, %	30.5	31.7	30.7	
	DRY DENSITY, PCF	90.5	92.5	94.2	
	SATURATION, %	96.3	100+	100+	
	VOID RATIO	.848	.809	.776	
	BACK PRESS., TSF	5.04	5.04	5.04	
MIN. PRIN. STRESS, TSF		1.00	2.00	3.00	
MAX. DEV. STRESS, TSF		6.54	5.61	8.75	
TIME TO FAILURE, MIN.		974	980	983	
RATE OF STRAIN, %/MIN		.016	.016	.016	
INITIAL DIAMETER, IN.		1.33	1.33	1.33	
INITIAL HEIGHT, IN.		3.00	3.00	3.00	

CONTROLLED-STRAIN TEST

DESCRIPTION OF SPECIMENS: SILT (ML), GRAY

LL	PL	PI	GS 2.68 (ESTIMATED)	UNDISTURBED SPECIMEN	$\bar{R}$ TEST

REMARKS: CASEY DESIGN SHEAR STRENGTH

PROJECT INTRACOASTAL WATERWAY LOCKS, LA

BAYOU SORREL LOCK

BORING NO. 4 BYSU | SAMPLE NO. 11C

DEPTH/ELEV 41.0/-29.3 | TECH. US

LABORATORY USAE WES - STF/GL | DATE 30 JUN 94

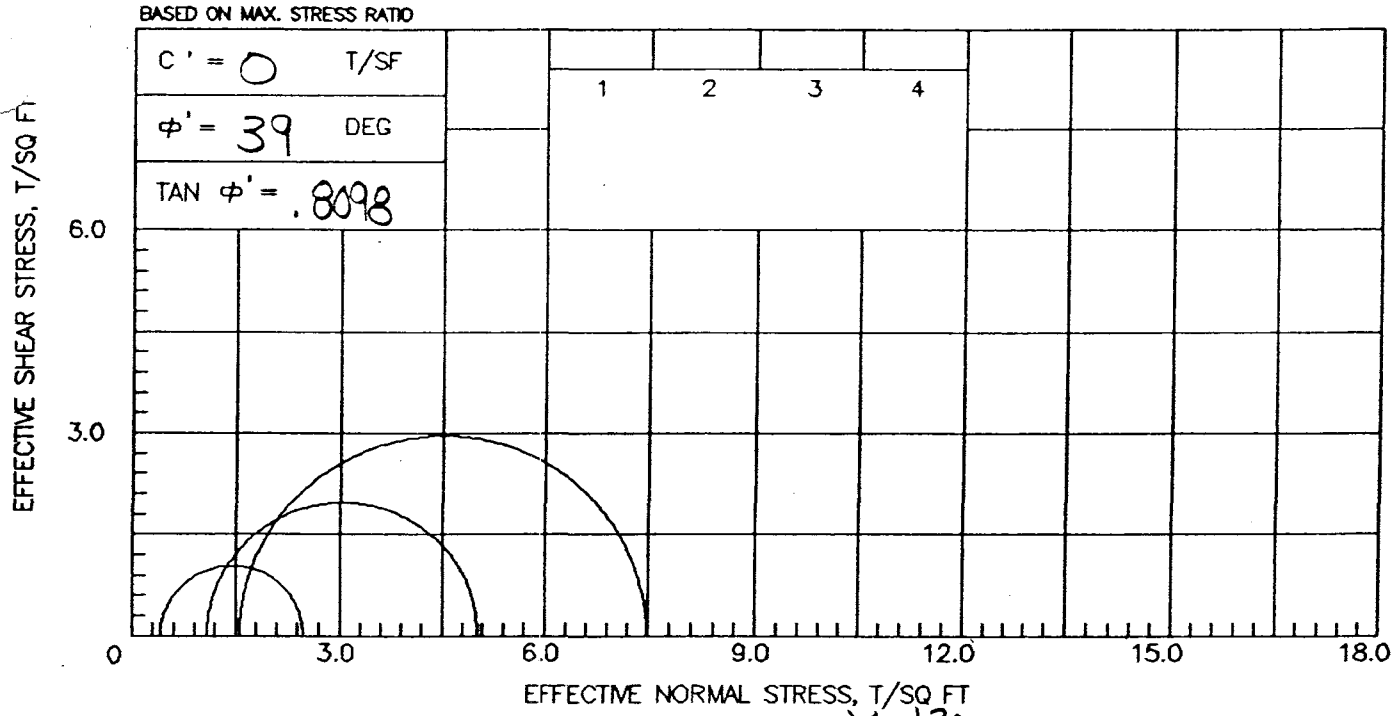
$\bar{R}$-TRIAXIAL COMPRESSION TEST REPORT

BASED ON MAX. STRESS RATIO

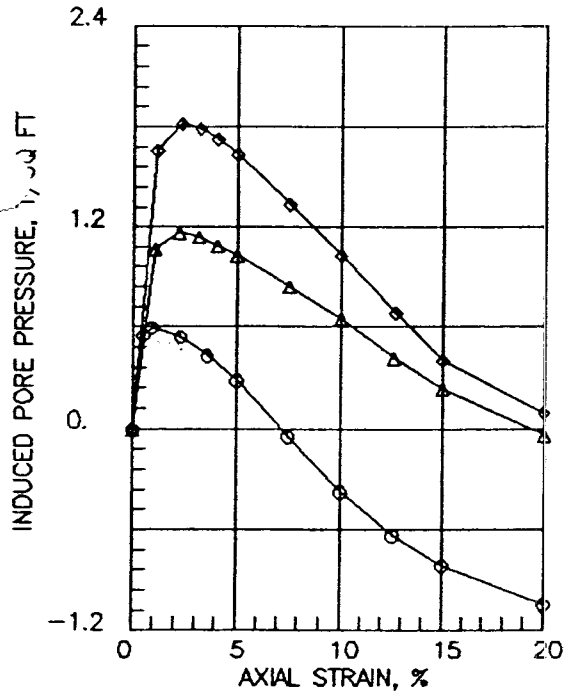
C ' = 0 T/SF

φ' = 39 DEG

TAN φ' = .8098



γ = 120



SPECIMEN NO.		⊙ 1	△ 2	◇ 3	4
INITIAL	WATER CONTENT, %	35.2	34.1	33.8	
	DRY DENSITY, PCF	88.5	89.5	90.9	
	SATURATION, %	100+	100+	100+	
	VOID RATIO	.891	.869	.840	
BEFORE SHEAR	WATER CONTENT, %	30.5	31.7	30.7	
	DRY DENSITY, PCF	90.5	92.5	94.2	
	SATURATION, %	96.3	100+	100+	
	VOID RATIO	.848	.809	.776	
	BACK PRESS., TSF	5.04	5.04	5.04	
● σ_1'/σ_3' MAX	MIN PRIN EFF STRESS, TSF	.41	1.09	1.55	
	DEV. STRESS, TSF	2.07	3.93	5.92	
	TIME TO FAILURE, MIN.	148	492	495	
RATE OF STRAIN, %/MIN		.016	.016	.016	
INITIAL DIAMETER, IN.		1.33	1.33	1.33	
INITIAL HEIGHT, IN.		3.00	3.00	3.00	

CONTROLLED-STRAIN TEST

DESCRIPTION OF SPECIMENS: SILT (ML), GRAY

LL	PL	PI	GS 2.68 (ESTIMATED)	UNDISTURBED SPECIMEN	$\bar{R}$ TEST

REMARKS: CASE V DESIGN SHEAR STRENGTHS

PROJECT INTRACOASTAL WATERWAY LOCKS, LA

BAYOU SORREL LOCK

BORING NO. 4 BYSU | SAMPLE NO. 11C

DEPTH/ELEV 41.0/−29.3 | TECH. US

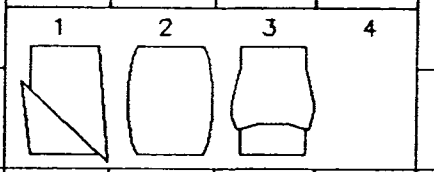
LABORATORY USAE WES – STF/GL | DATE 30 JUN 94

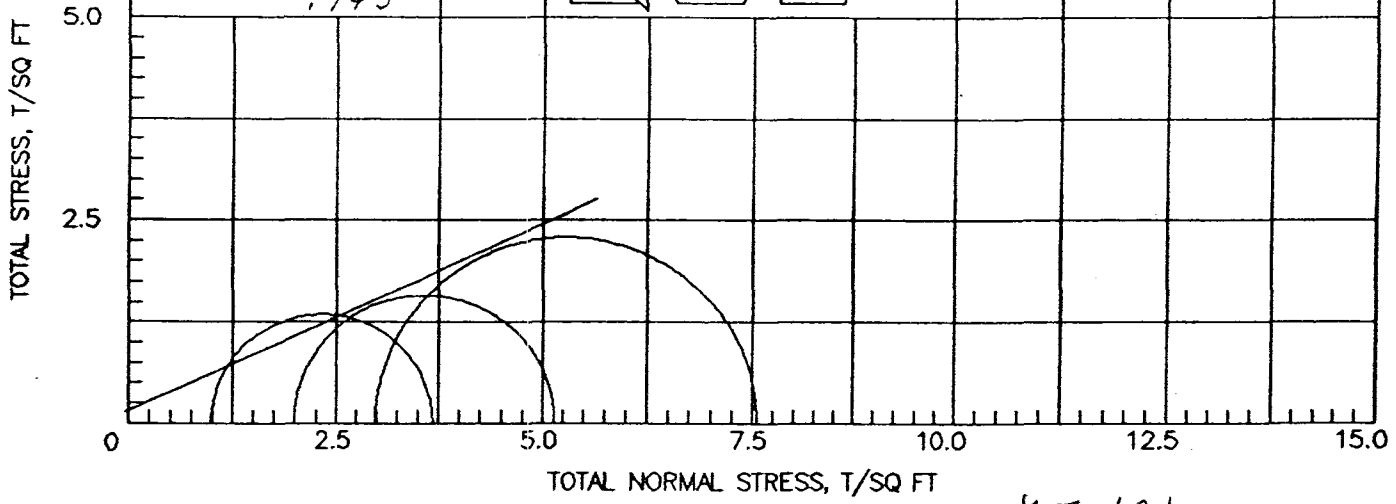
$\bar{R}$–TRIAXIAL COMPRESSION TEST REPORT

C = .1 T/SF

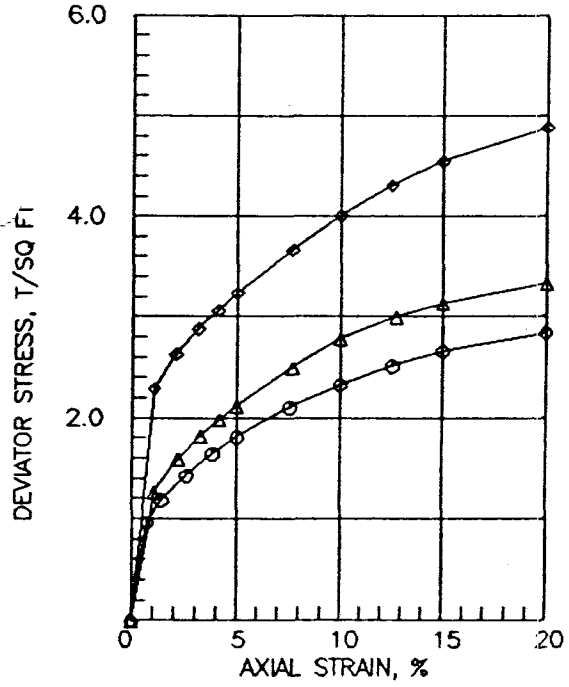
Φ = 24° DEG

TAN Φ = .445





γ = 121



SPECIMEN NO.		⊙ 1	△ 2	◇ 3	4
INITIAL	WATER CONTENT, %	35.4	36.7	35.0	35.70
	DRY DENSITY, PCF	89.6	88.7	90.8	89.70
	SATURATION, %	100+	100+	100+	100
	VOID RATIO	.874	.894	.849	
BEFORE SHEAR	WATER CONTENT, %	32.3	31.6	28.9	
	DRY DENSITY, PCF	91.7	94.2	95.4	
	SATURATION, %	100+	100+	100+	
	VOID RATIO	.831	.783	.760	
	BACK PRESS., TSF	4.32	4.32	4.32	
MIN. PRIN. STRESS, TSF		1.00	2.00	3.00	
MAX. DEV. STRESS, TSF		2.67	3.14	4.55	
TIME TO FAILURE, MIN.		961	975	975	
RATE OF STRAIN, %/MIN		.016	.016	.016	
INITIAL DIAMETER, IN.		1.34	1.34	1.33	
INITIAL HEIGHT, IN.		3.00	3.00	3.00	

CONTROLLED-STRAIN TEST

DESCRIPTION OF SPECIMENS: CLAYEY SILT (ML), GRAY

LL	PL	PI	GS 2.69 (ESTIMATED)	UNDISTURBED SPECIMEN	$\bar{R}$ TEST

REMARKS:

CASE II DESIGN SHEAR STRENGTH

PROJECT INTRACOASTAL WATERWAY LOCKS, LA

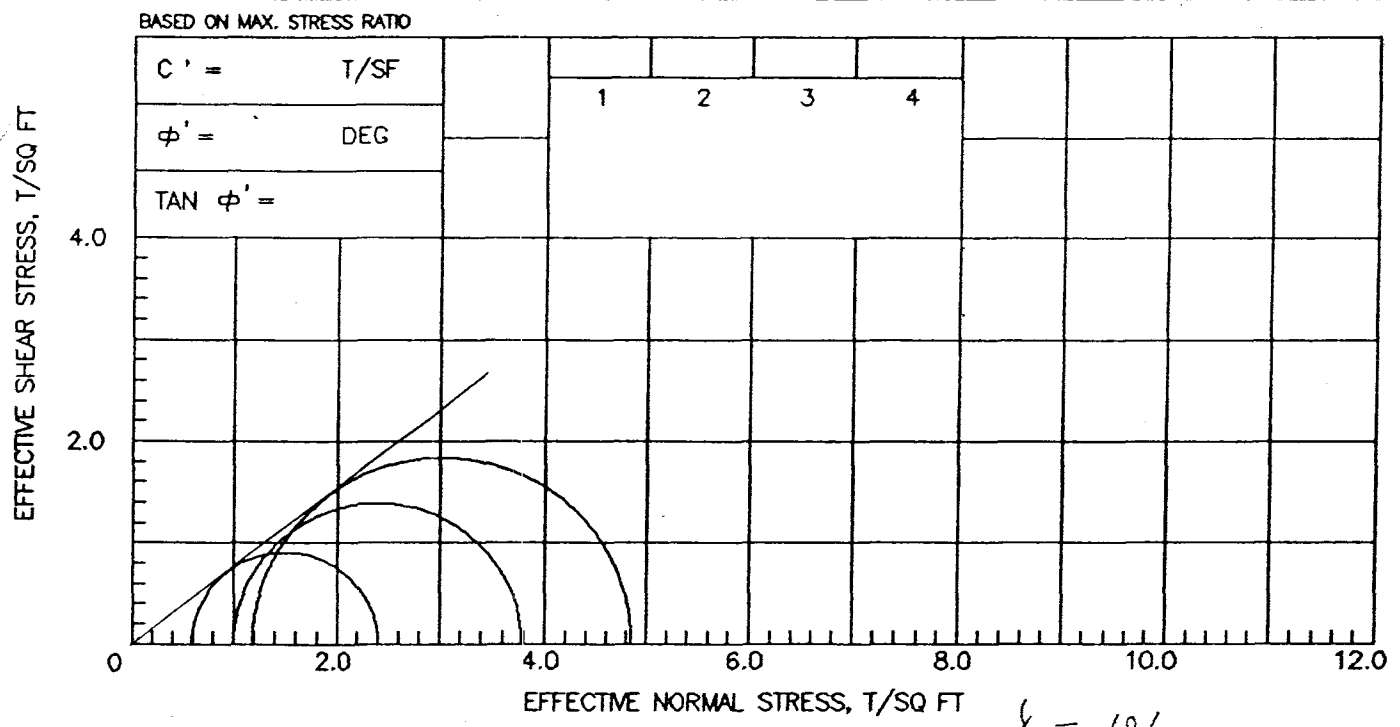
BAYOU SORREL LOCK

BORING NO. 5 BYSU | SAMPLE NO. 7C

DEPTH/ELEV 25.0 / -17.0 | TECH. US

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

$\bar{R}$-TRIAXIAL COMPRESSION TEST REPORT



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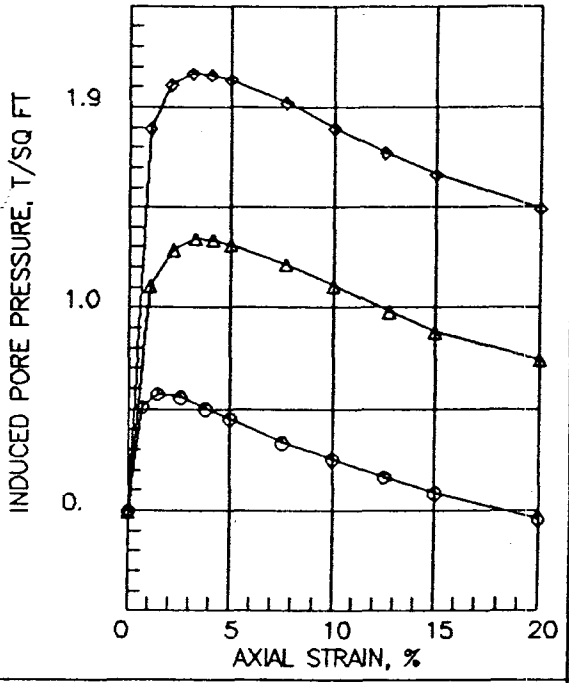


SPECIMEN NO.		⊙ 1	△ 2	◇ 3	4
INITIAL	WATER CONTENT, %	35.4	36.7	35.0	35.70
	DRY DENSITY, PCF	89.6	88.7	90.8	89.70
	SATURATION, %	100+	100+	100+	100
	VOID RATIO	.874	.894	.849	
BEFORE SHEAR	WATER CONTENT, %	32.3	31.6	28.9	
	DRY DENSITY, PCF	91.7	94.2	95.4	
	SATURATION, %	100+	100+	100+	
	VOID RATIO	.831	.783	.760	
	BACK PRESS., TSF	4.32	4.32	4.32	
@ σ_1'/σ_3' MAX	MIN PRIN EFF STRESS, TSF	.59	1.00	1.18	
	DEV. STRESS, TSF	1.81	2.78	3.67	
	TIME TO FAILURE, MIN.	319	651	496	
RATE OF STRAIN, %/MIN		.016	.016	.016	
INITIAL DIAMETER, IN.		1.34	1.34	1.33	
INITIAL HEIGHT, IN.		3.00	3.00	3.00	

CONTROLLED-STRAIN TEST

DESCRIPTION OF SPECIMENS: CLAYEY SILT (ML), GRAY

LL	PL	PI	GS 2.69 (ESTIMATED)	UNDISTURBED SPECIMEN	$\bar{R}$ TEST

REMARKS:

CASE II DESIGN SHEAR STRENGTHS

PROJECT INTRACOASTAL WATERWAY LOCKS, LA

BAYOU SORREL LOCK

BORING NO. 5 BYSU | SAMPLE NO. 7C

DEPTH/ELEV 25.0 / -17.0 | TECH. US

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

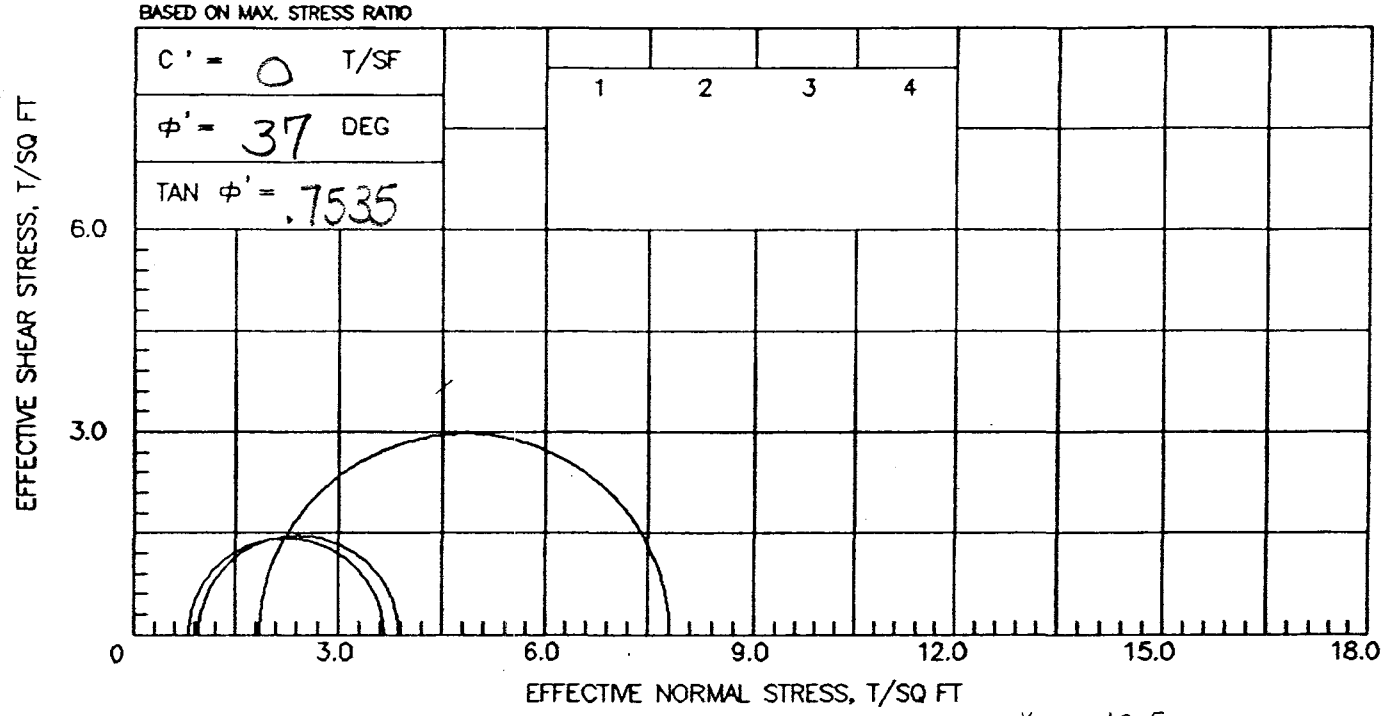
$\bar{R}$-TRIAXIAL COMPRESSION TEST REPORT

BASED ON MAX. STRESS RATIO

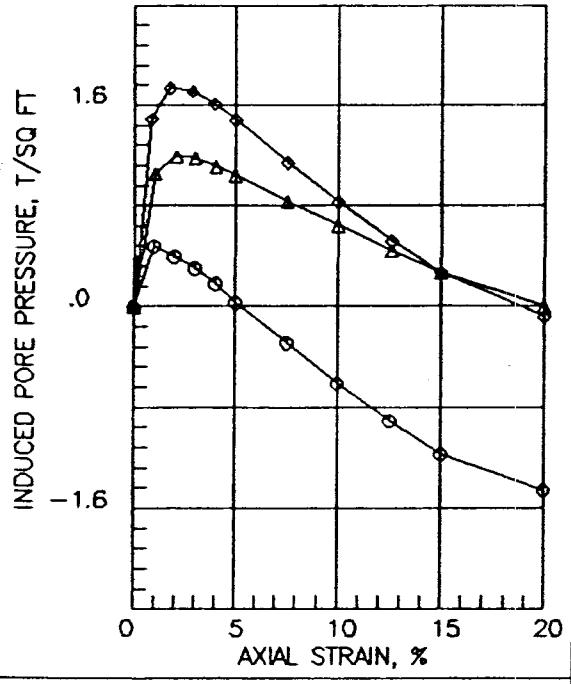
C ' = 0 T/SF

φ' = 37 DEG

TAN φ' = .7535



γ = 125



SPECIMEN NO.		○ 1	△ 2	◇ 3	4
INITIAL	WATER CONTENT, %	26.8	28.4	26.3	27.17
	DRY DENSITY, PCF	98.7	97.0	99.0	98.23
	SATURATION, %	100+	100+	100+	100
	VOID RATIO	.696	.726	.689	
BEFORE SHEAR	WATER CONTENT, %	26.0	26.3	25.4	
	DRY DENSITY, PCF	99.7	99.1	104.0	
	SATURATION, %	100+	100+	100+	
	VOID RATIO	.678	.688	.609	
	BACK PRESS., TSF	4.32	4.32	4.32	
@ σ_1'/σ_3' MAX	MIN PRIN EFF STRESS, TSF	.81	.96	1.86	
	DEV. STRESS, TSF	2.84	2.92	5.95	
	TIME TO FAILURE, MIN.	259	324	490	
RATE OF STRAIN, %/MIN		.016	.016	.016	
INITIAL DIAMETER, IN.		1.34	1.33	1.33	
INITIAL HEIGHT, IN.		3.00	3.00	3.00	

CONTROLLED-STRAIN TEST

DESCRIPTION OF SPECIMENS: SILT (ML), GRAY

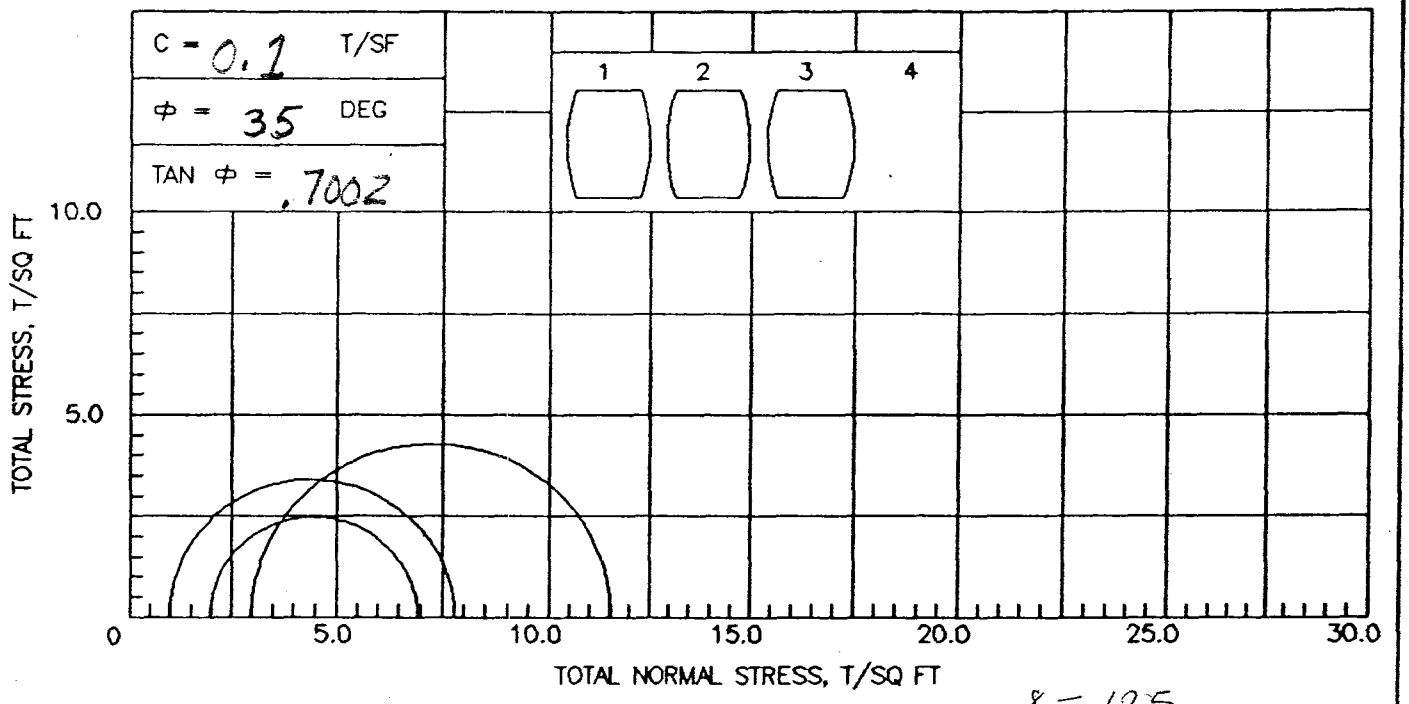
LL	PL	PI	GS 2.68 (ESTIMATED)	UNDISTURBED SPECIMEN	$\bar{R}$ TEST

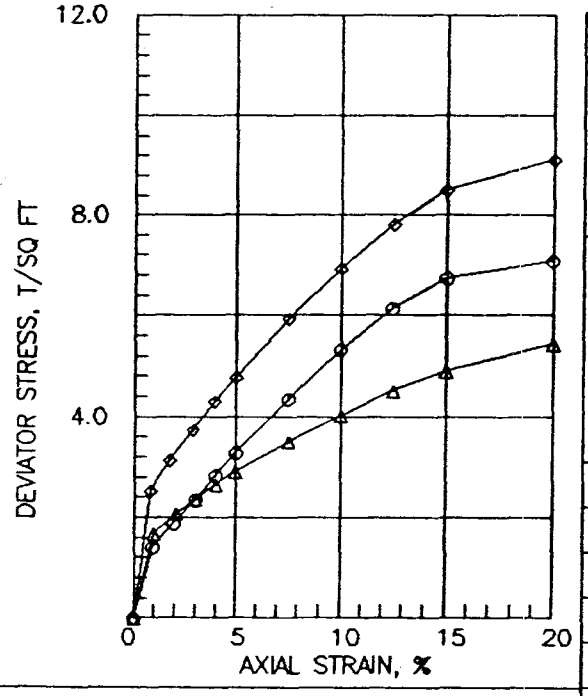
REMARKS:

CASE V DESIGN SHEAR STRENGTHS

PROJECT	INTRACOASTAL WATERWAY LOCKS, LA
	BAYOU SORREL LOCK
BORING NO. 5 BYSU	SAMPLE NO. 22B
DEPTH/ELEV 84.0 / −76.0	TECH. US
LABORATORY USAE WES – STF/GL	DATE 08 JUL 94

$\bar{R}$-TRIAXIAL COMPRESSION TEST REPORT





δ = 125

SPECIMEN NO.		◇ 1	△ 2	◇ 3	4
INITIAL	WATER CONTENT, %	26.8	28.4	26.3	27.17
	DRY DENSITY, PCF	98.7	97.0	99.0	98.23
	SATURATION, %	100+	100+	100+	100
	VOID RATIO	.696	.726	.689	
BEFORE SHEAR	WATER CONTENT, %	26.0	26.3	25.4	
	DRY DENSITY, PCF	99.7	99.1	104.0	
	SATURATION, %	100+	100+	100+	
	VOID RATIO	.678	.688	.609	
	BACK PRESS., TSF	4.32	4.32	4.32	
MIN. PRIN. STRESS, TSF		1.00	2.00	3.00	
MAX. DEV. STRESS, TSF		6.75	4.91	8.50	
TIME TO FAILURE, MIN.		970	973	973	
RATE OF STRAIN, %/MIN		.016	.016	.016	
INITIAL DIAMETER, IN.		1.34	1.33	1.33	
INITIAL HEIGHT, IN.		3.00	3.00	3.00	

CONTROLLED-STRAIN TEST

DESCRIPTION OF SPECIMENS: SILT (ML), GRAY

LL	PL	PI	GS 2.68 (ESTIMATED)	UNDISTURBED SPECIMEN	$\bar{R}$ TEST

REMARKS:

CASE V DESIGN SHEARSTRENGTH

PROJECT INTRACOASTAL WATERWAY LOCKS, LA

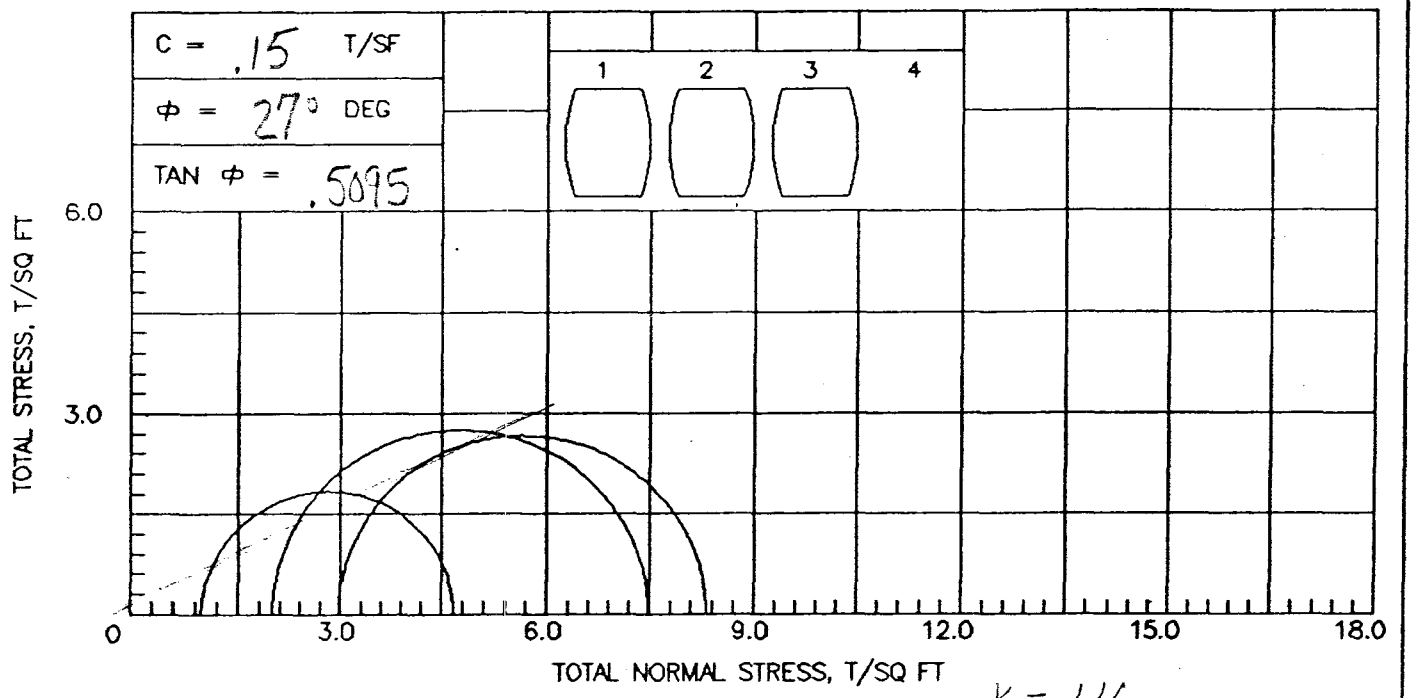
BAYOU SORREL LOCK

BORING NO. 5 BYSU | SAMPLE NO. 22B

DEPTH/ELEV 84.0 / -76.0 | TECH. US

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

$\bar{R}$-TRIAXIAL COMPRESSION TEST REPORT



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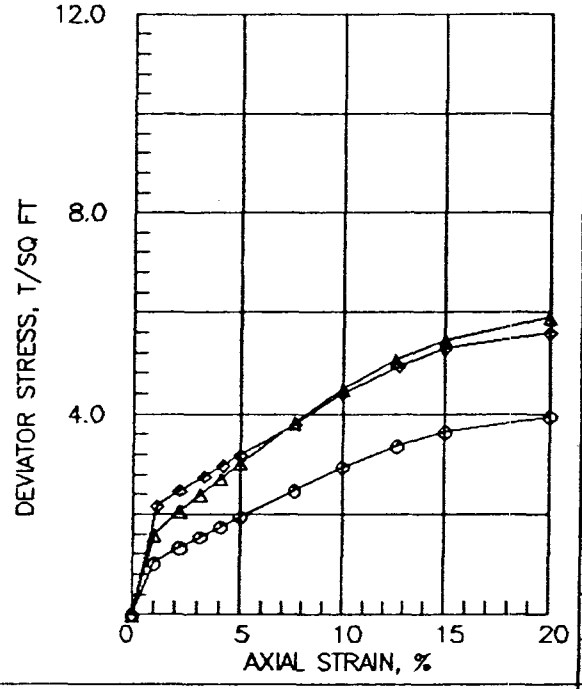


SPECIMEN NO.		⊙ 1	△ 2	◇ 3	4
INITIAL	WATER CONTENT, %	35.7	33.6	33.3	34.20
	DRY DENSITY, PCF	85.2	86.0	84.5	85.23
	SATURATION, %	99.6	95.6	91.5	95.57
	VOID RATIO	.957	.938	.973	
BEFORE SHEAR	WATER CONTENT, %	33.4	31.5	31.3	
	DRY DENSITY, PCF	88.1	88.2	88.9	
	SATURATION, %	99.9	94.4	95.4	
	VOID RATIO	.893	.890	.875	
	BACK PRESS., TSF	5.04	5.04	5.04	
MIN. PRIN. STRESS, TSF		1.00	2.00	3.00	
MAX. DEV. STRESS, TSF		3.65	5.46	5.30	
TIME TO FAILURE, MIN.		972	969	978	
RATE OF STRAIN, %/MIN		.016	.016	.016	
INITIAL DIAMETER, IN.		1.37	1.37	1.36	
INITIAL HEIGHT, IN.		3.00	3.00	3.00	

CONTROLLED-STRAIN TEST

DESCRIPTION OF SPECIMENS: SILTY SAND (SM), GRAY

LL	PL	PI	GS 2.67 (ESTIMATED)	UNDISTURBED SPECIMEN	$\bar{R}$ TEST

REMARKS:

CASEIV DESIGN SHEAR STRENGTH

PROJECT INTRACOASTAL WATERWAY LOCKS, LA

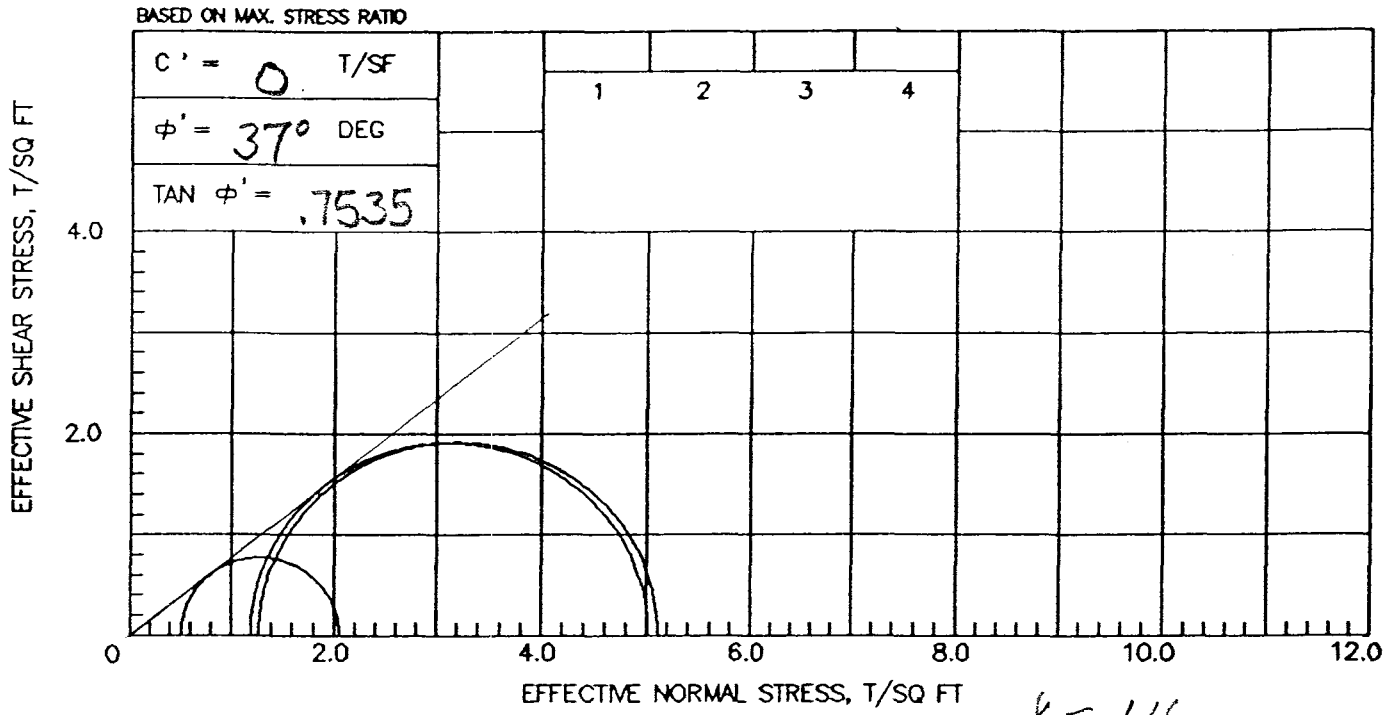
BAYOU SORREL LOCK

BORING NO. 6BYSU | SAMPLE NO. 18B

DEPTH/ELEV 68.0/-66.9 | TECH. US

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

$\bar{R}$-TRIAXIAL COMPRESSION TEST REPORT



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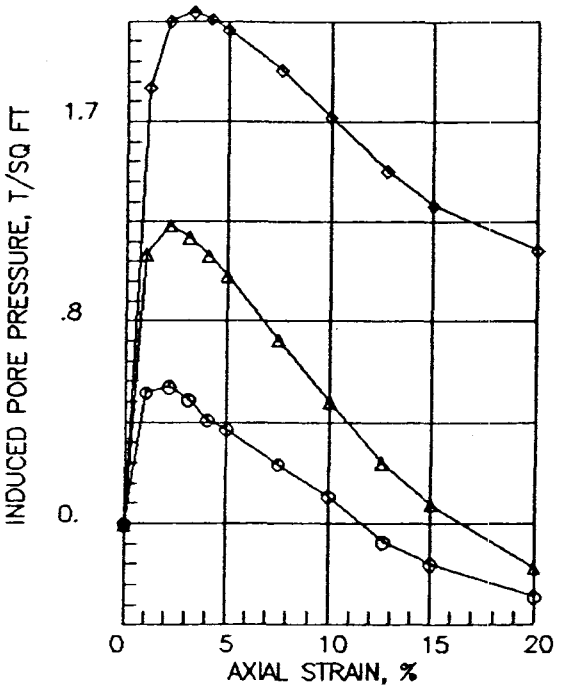


SPECIMEN NO.		⊙ 1	△ 2	◇ 3	4
INITIAL	WATER CONTENT, %	35.7	33.6	33.3	34.20
	DRY DENSITY, PCF	85.2	86.0	84.5	85.23
	SATURATION, %	99.6	95.6	91.5	95.57
	VOID RATIO	.957	.938	.973	
BEFORE SHEAR	WATER CONTENT, %	33.4	31.5	31.3	
	DRY DENSITY, PCF	88.1	88.2	88.9	
	SATURATION, %	99.9	94.4	95.4	
	VOID RATIO	.893	.890	.875	
	BACK PRESS., TSF	5.04	5.04	5.04	
● σ'1/σ'3 MAX	MIN PRIN EFF STRESS, TSF	.51	1.27	1.19	
	DEV. STRESS, TSF	1.54	3.83	3.82	
	TIME TO FAILURE, MIN.	201	485	496	
RATE OF STRAIN, %/MIN		.016	.016	.016	
INITIAL DIAMETER, IN.		1.37	1.37	1.36	
INITIAL HEIGHT, IN.		3.00	3.00	3.00	

CONTROLLED-STRAIN TEST

DESCRIPTION OF SPECIMENS: SILTY SAND (SM), GRAY

LL	PL	PI	GS 2.67 (ESTIMATED)	UNDISTURBED SPECIMEN	$\bar{R}$ TEST

REMARKS:

CASE IV DESIGN SHEAR STRENGTH

PROJECT INTRACOASTAL WATERWAY LOCKS, LA

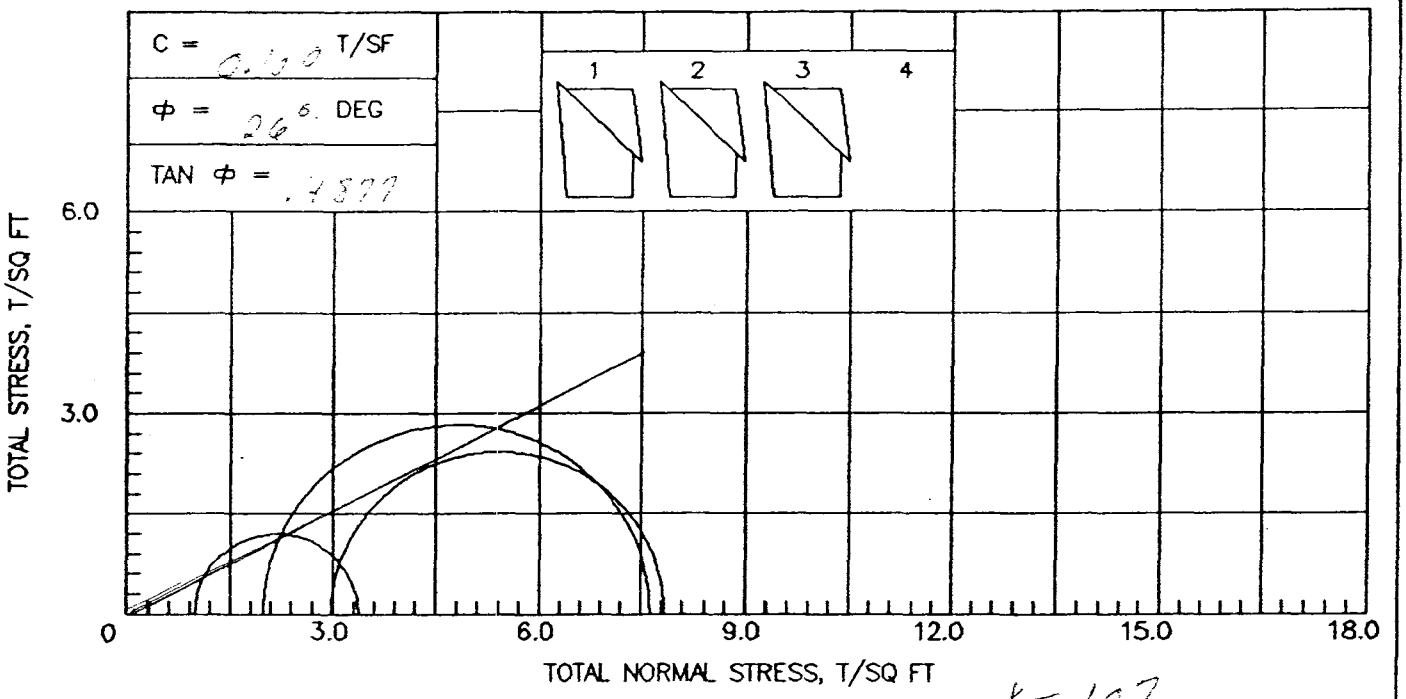
BAYOU SORREL LOCK

BORING NO. 6BYSU SAMPLE NO. 18B

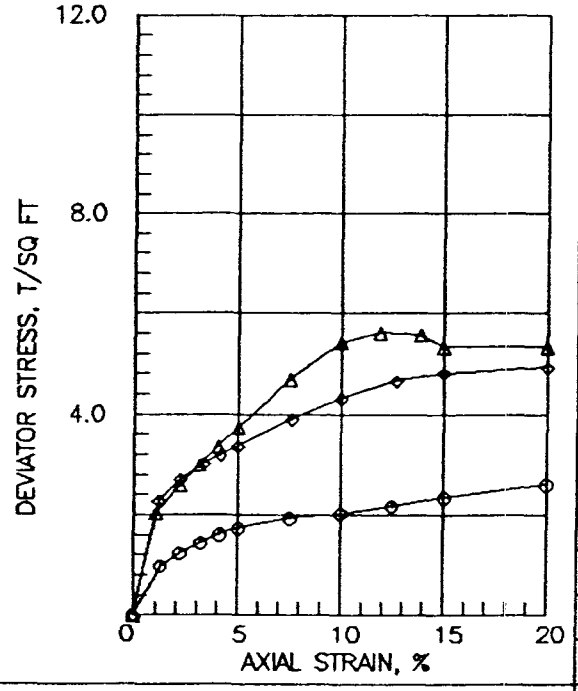
DEPTH/ELEV 68.0/-66.9 TECH. US

LABORATORY USAE WES - STF/GL DATE 26 APR 95

$\bar{R}$-TRIAXIAL COMPRESSION TEST REPORT



δ = 107



SPECIMEN NO.		⊙ 1	△ 2	◇ 3	4
INITIAL	WATER CONTENT, %	30.5	29.5	31.1	30.3
	DRY DENSITY, PCF	90.3	93.1	90.9	91.43
	SATURATION, %	96.0	99.3	99.0	98.13
	VOID RATIO	.852	.797	.841	
BEFORE SHEAR	WATER CONTENT, %	29.6	27.7	27.6	
	DRY DENSITY, PCF	91.7	96.0	95.6	
	SATURATION, %	96.3	100+	98.8	
	VOID RATIO	.824	.742	.750	
	BACK PRESS., TSF	4.32	4.32	4.32	
MIN. PRIN. STRESS, TSF		1.00	2.00	3.00	
MAX. DEV. STRESS, TSF		2.36	5.62	4.82	
TIME TO FAILURE, MIN.		956	759	965	
RATE OF STRAIN, %/MIN		.016	.016	.016	
INITIAL DIAMETER, IN.		1.36	1.36	1.36	
INITIAL HEIGHT, IN.		3.00	3.00	3.00	

CONTROLLED–STRAIN TEST

DESCRIPTION OF SPECIMENS: SILT (ML), GRAY

LL	PL	PI	GS 2.68 (ESTIMATED)	UNDISTURBED SPECIMEN	$\bar{R}$ TEST

REMARKS:

CASE IV DESIGN SHEAR STRENGTH

PROJECT INTRACOASTAL WATERWAY LOCKS, LA

BAYOU SORREL LOCK

BORING NO. 6BYSU | SAMPLE NO. 21C

DEPTH/ELEV 80.7/–79.6 | TECH. US

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

$\bar{R}$–TRIAXIAL COMPRESSION TEST REPORT