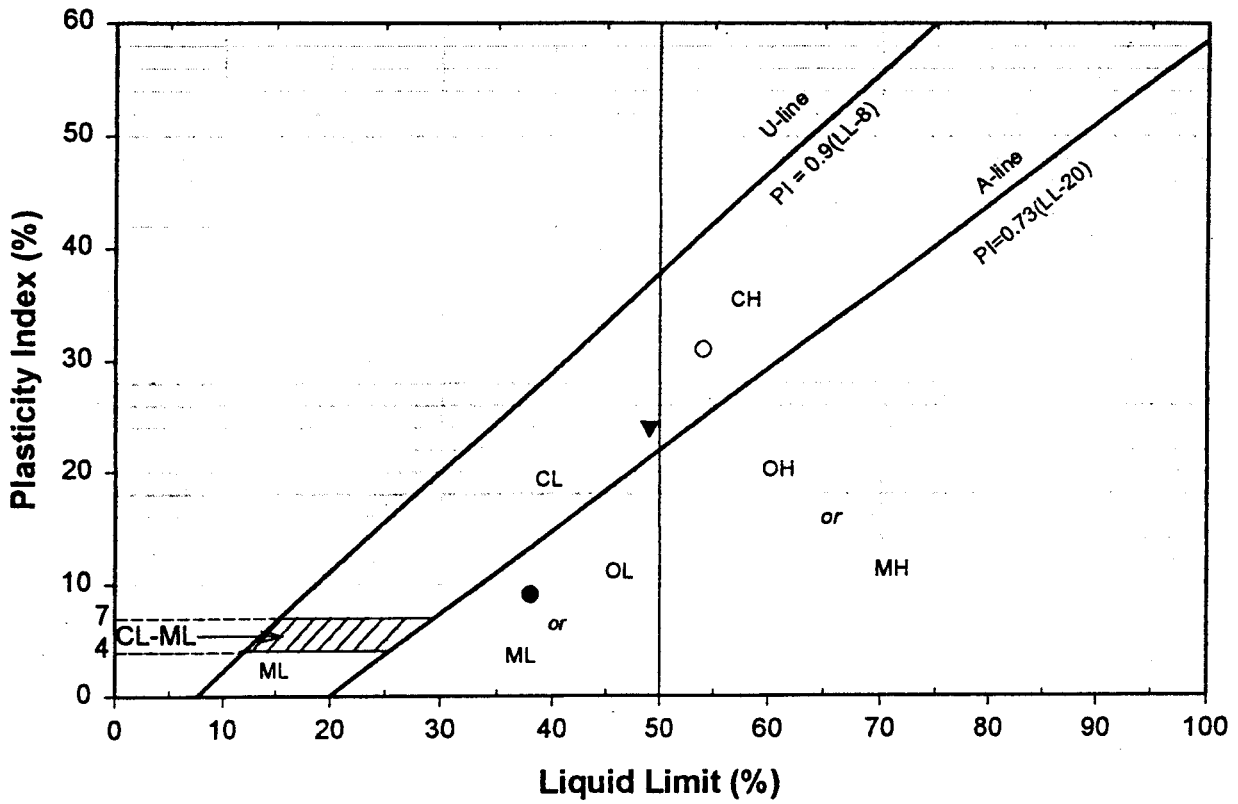
Appendix C - Laboratory Test Data

Plasticity Index (CTM 204)



● B600-1-1-II (depth = 2.0 m)

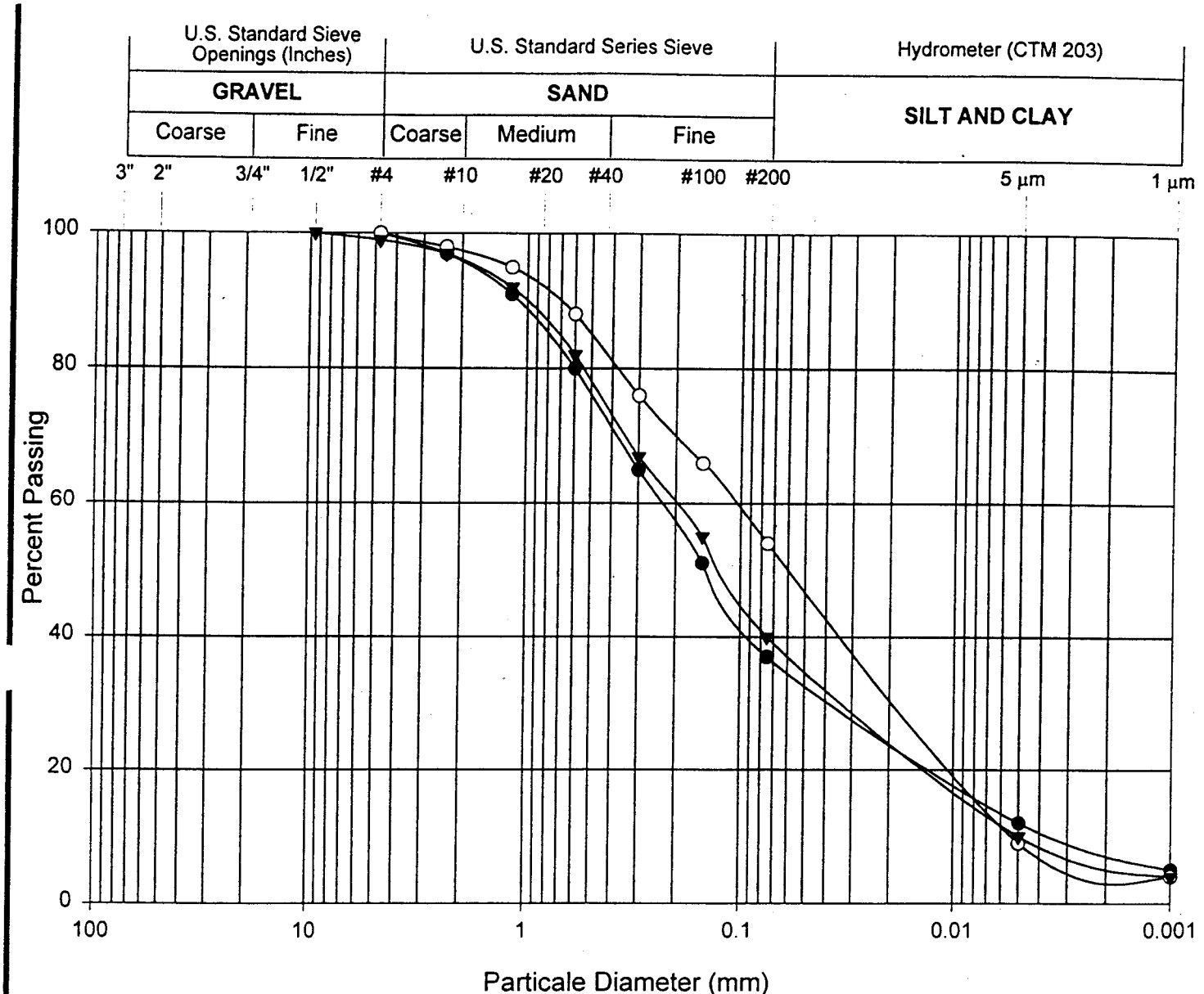
○ B600-2-1-IV (depth = 1.8 m)

▼ B600-5-1-II (depth = 2.0 m)

Caltrans

Phase I
EA 091801
11-SD-905 KP 18.3/19.5

Gradation Analysis Test Results*



California Test Method 203

B-600-1-1-IV (depth 1.5 m)
B-600-1-2-IV (depth 3.1 m)
B600-1-2-III (depth = 3.2m)

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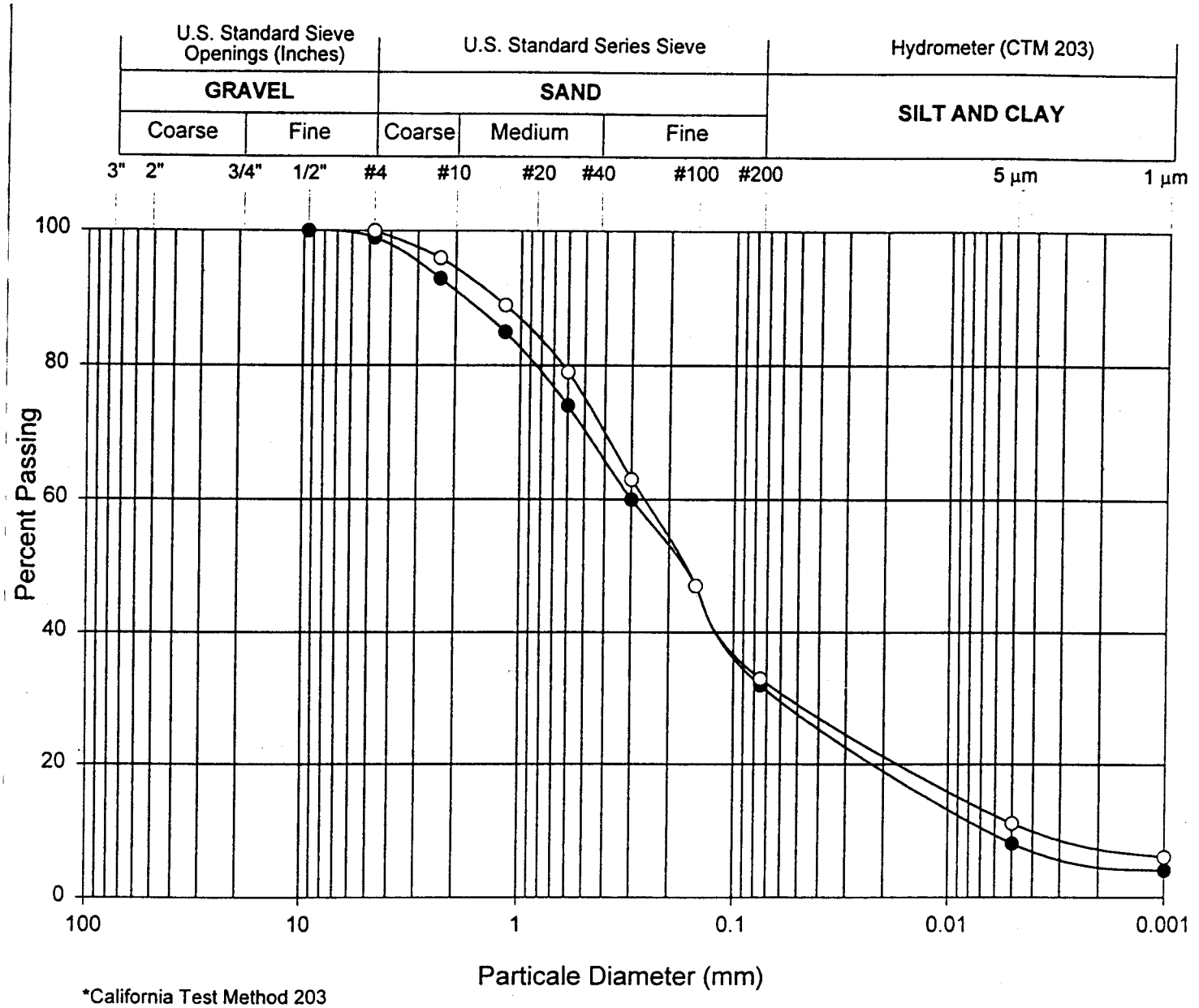
Phase I
EA: 091801
Dist. - Co. - Rte. - K.P: 11-SD-905 18.0/19.3

Gradation Analysis Test Results*



*California Test Method 203

B-600-2-1-II (depth 2.0 m)
B-600-2-2-III (depth 3.4 m)

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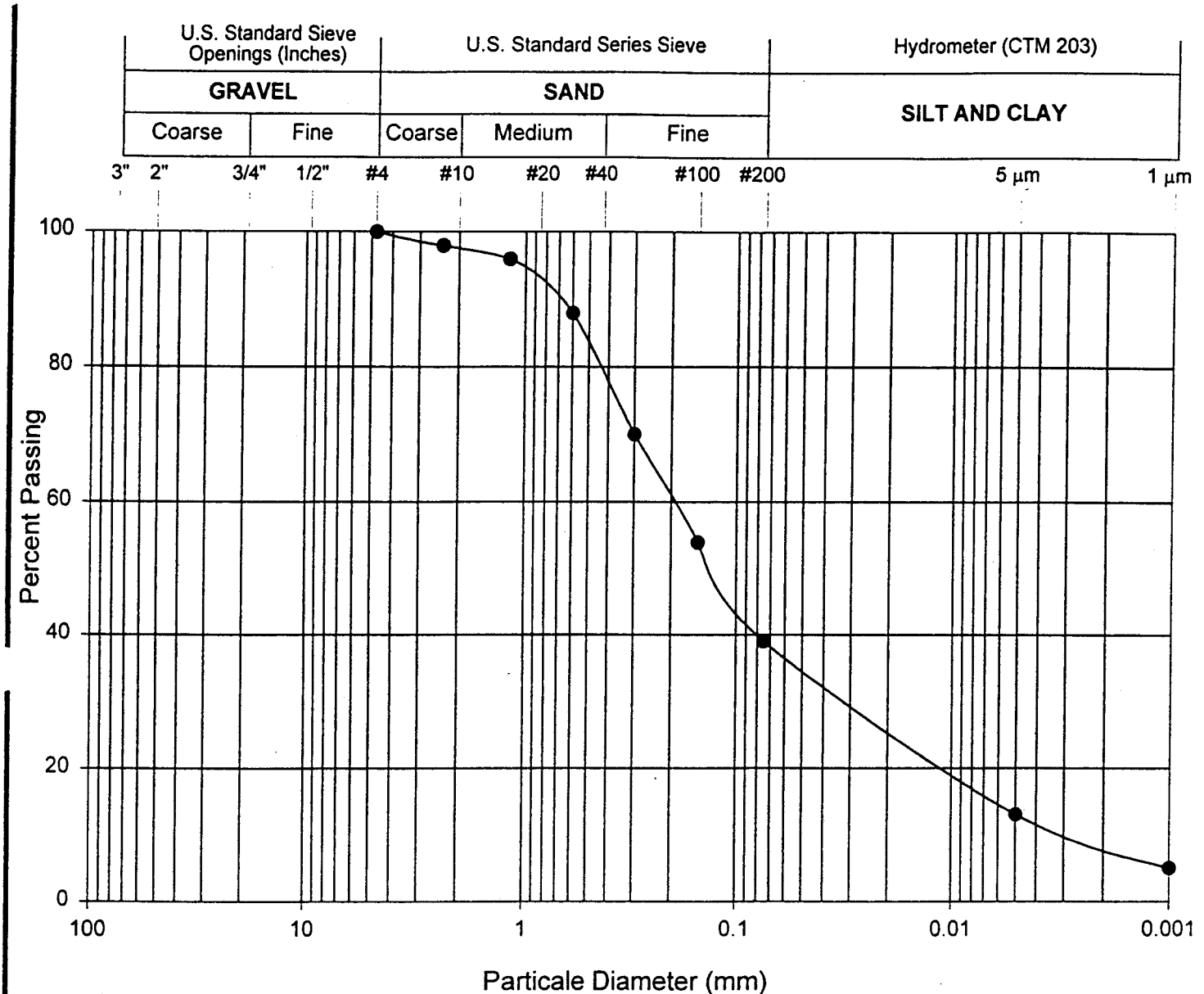
Phase I
EA: 091801
Dist. - Co. - Rte. - K.P: 11-SD-905 18.0/19.3

Gradation Analysis Test Results*



*California Test Method 203

—●— B-600-3-1-III (depth 1.9 m)

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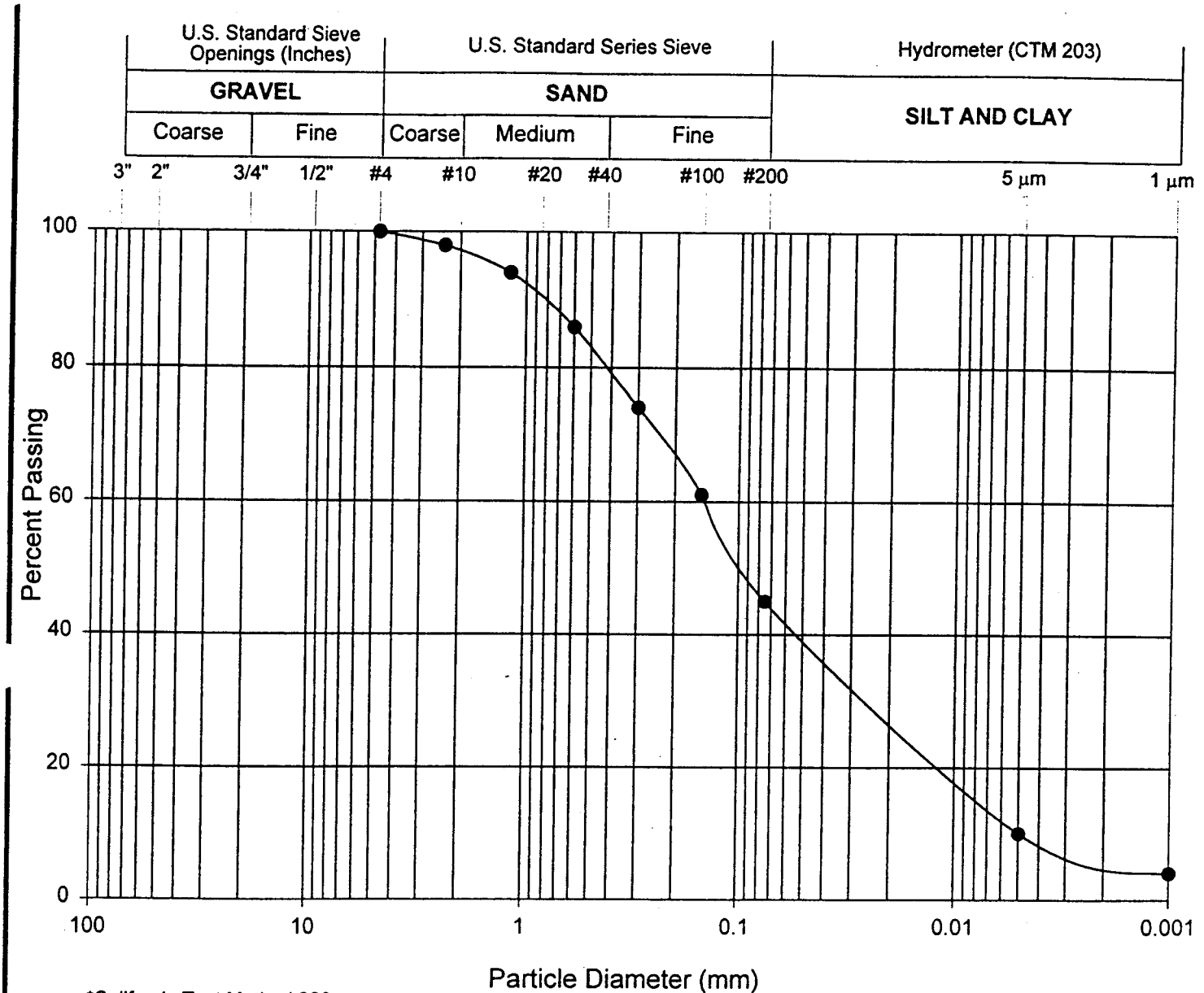
EA: 091801
Dist. - Co. - Rte. - K.P: 11-SD-905 18.0/19.3

Gradation Analysis Test Results*



*California Test Method 203

B-600-4-2-VIII (depth 2.2 m)

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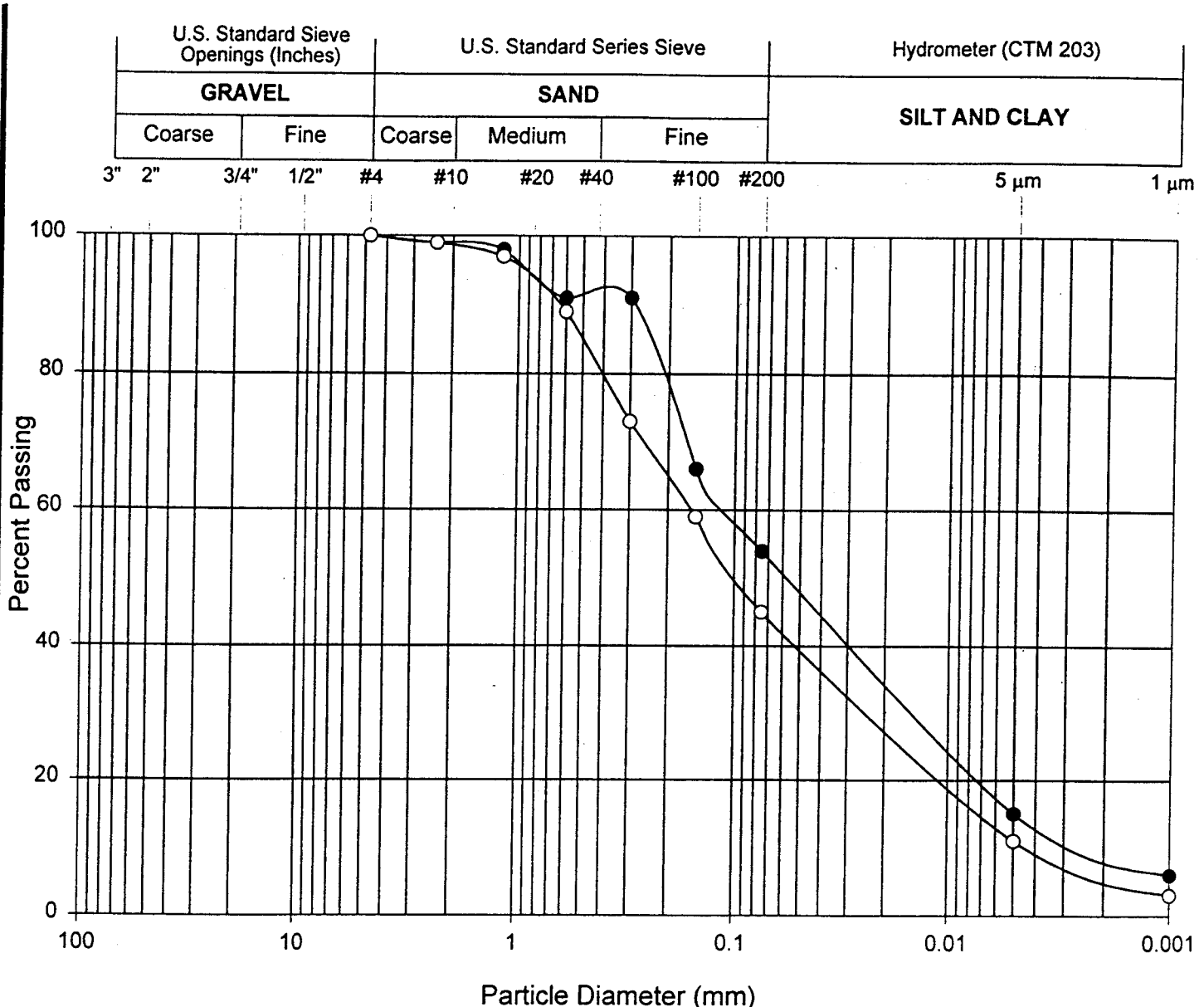
Engineering - South

Phase I
EA: 091801
Dist. - Co. - Rte. - K.P: 11-SD-905 18.0/19.3

Gradation Analysis Test Results*



*California Test Method 203

—●— B-600-5-1-IV (depth 1.6 m)
—○— B-600-5-1-III (depth 1.9 m)

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Engineering - South

Phase I
EA: 091801
Dist. - Co. - Rte. - K.P: 11-SD-905 18.0/19.3

EA # 11-091801

Direct Shear # DS00044

Sample # 600-1-1-III

Moisture Content Results of Direct Shear Test Sample

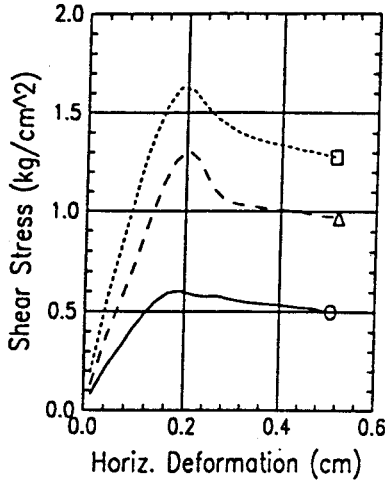
Before Test

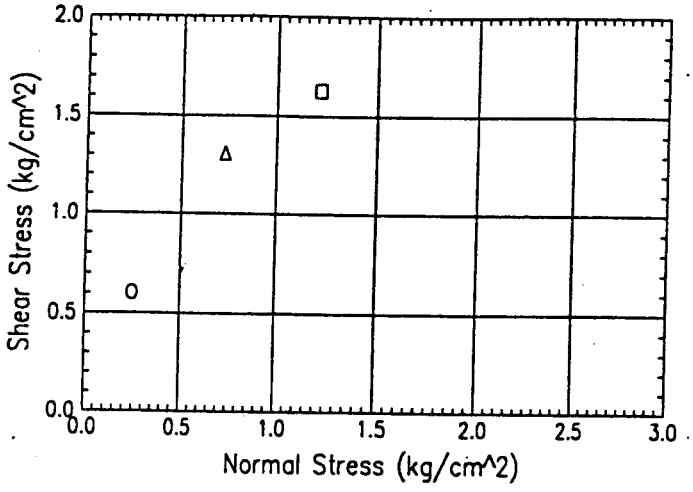
	A	B	C
Gross Wet wt. (gms	115.2	112.6	113.8
Ring Tare wt. (gms)	26.1	23.	24.1
Net Wet wt. (gms)	89.1	89.6	89.7
Moisture (gms)	21.6	21.5	21.9
Moisture Content (%	32.0	31.6	32.3
Trimmings + Can Tare (gms)	146.3	150.4	151.7

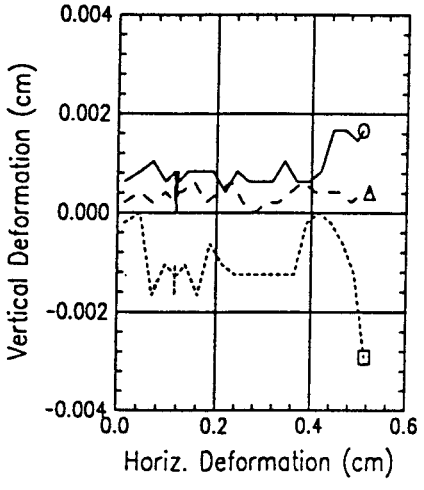
After Test

	A	B	C
Gross Wet wt. (gms)	146.5	150.7	152.0
Gross Dry wt. (gm	124.7	128.9	129.8
Can Tare (gms	57.2	60.8	62.
Moisture (gms	21.8	21.8	22.2
Net Dry wt. (gms	67.5	68.1	67.8
Moisture (%	32.3	32.0	32.7

	A	B	C
Wet trimmings + Can tare (gms)	146.3	150.4	151.7
Dry Trimmings Can Tare (gms)	124.7	128.9	129.8
Can Tare wt. (gms)	57.2	60.8	62.
Wet Specimen + Tare Before Test (gms)	146.3	150.4	151.7
Wet Specimen + Tare After Test (gms)	146.5	150.7	152.0
Dry Specimen + Tar After Test (gms)	124.7	128.9	129.8







Graph Symbol			O	Δ	□	
Test No.			DS00044	DS00044	DS00044	
Initial	Water content (%)	w_o	32.00	31.57	32.30	
	Void ratio	e_o	0.00	0.00	0.00	
	Saturation (%)	S_o	44.41	44.20	45.03	
	Dry density (gm/cm^3	γ_d	1.39	1.40	1.39	
Void ratio after consolidation		e_c	0.00	0.00	0.00	
Time for 50 percent consolidation		t_{50}				
Final	Water content (%)	w_f	32.30	32.01	32.74	
	Void Ratio	e_f	0.00	0.00	0.00	
	Saturation (%)	S_f	44.85	44.83	45.59	
Normal stress (kg/cm^2)		σ	0.24	0.73	1.22	
Maximum shear stress (kg/cm^2)		τ_{max}	0.60	1.31	1.63	
Actual time to failure (min)		t_f	20	20	19	
Rate of strain			0.004 in/min →	→		
Ultimate shear stress (kg/cm^2		τ_{ult}	0.50	0.97	1.28	

Strength Parameters

Type of Specimen	1.944				
Description	Moist soft lt. brn. calcareous sandy silt				
LL 0.0	PL 0.0	PI 0.0		G_s 0	
Remarks	---	Project	11-091801		
		Area	19.15 (cm^2)	Boring No.	600-1
		Depth	---	Sample No.	1-III
		Elevation	---	Date	06/28/00
		DIRECT SHEAR TEST REPORT			

EA # 11-091801

Direct Shear # DS00045

Sample # 600-3-1-IV

Moisture Content Results of Direct Shear Test Sample

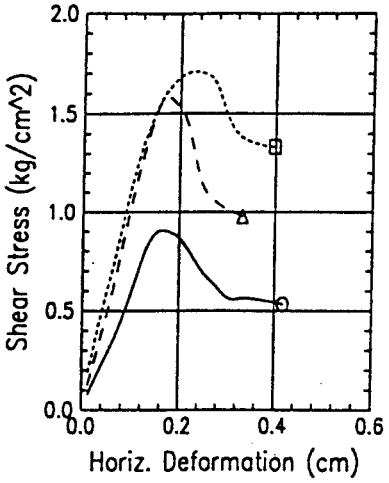
Before Test

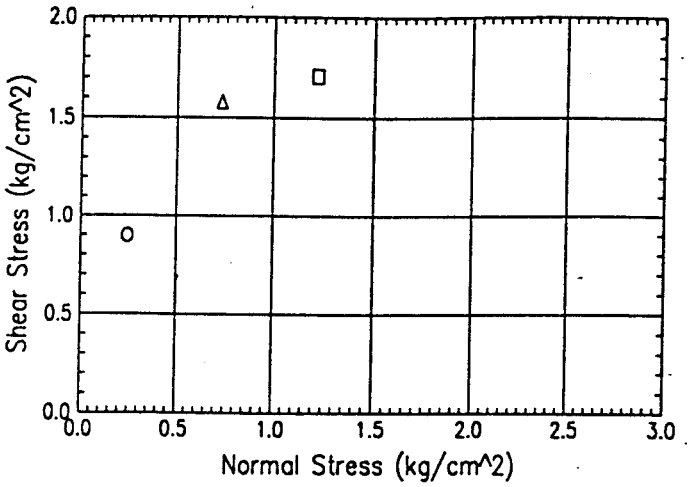
	A	B	C
Gross Wet wt. (gms	114.9	114.3	114.2
Ring Tare wt. (gms)	23.	24.1	26.1
Net Wet wt. (gms)	91.9	90.2	88.1
Moisture (gms)	21.0	21.2	25.2
Moisture Content (%	29.6	30.7	40.1
Trimmings + Can Tare (gms)	152.3	146.8	144.1

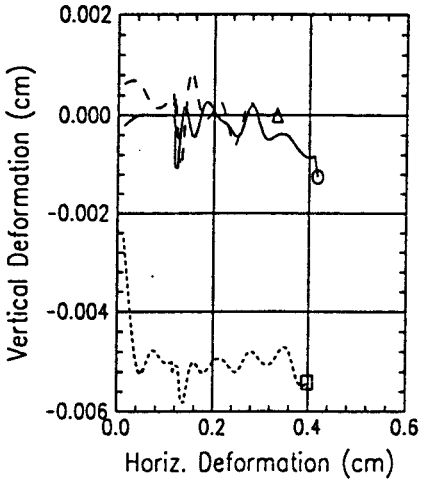
After Test

	A	B	C
ross Wet wt. (gms)	153.4	148.3	145.2
Gross Dry wt. (gm	131.3	125.6	118.9
Can Tare (gms	60.4	56.6	56.
Moisture (gms	22.1	22.7	26.3
Net Dry wt. (gms	70.9	69.0	62.9
Moisture (%	31.2	32.9	41.8

	A	B	C
Wet trimmings + Can tare (gms)	152.3	146.8	144.1
Dry Trimmings Can Tare (gms)	131.3	125.6	118.9
Can Tare wt. (gms)	60.4	56.6	56.
Wet Specimen + Tare Before Test (gms)	152.3	146.8	144.1
Wet Specimen + Tare After Test (gms)	153.4	148.3	145.2
Dry Specimen + Tar After Test (gms)	131.3	125.6	118.9







Graph Symbol			○	△	□	
Test No.			DS00045	DS00045	DS00045	
Initial	Water content (%)	w_o	29.62	30.72	40.06	
	Void ratio	e_o	0.00	0.00	0.00	
	Saturation (%)	S_o	43.18	43.59	51.81	
	Dry density (gm/cm³)	γ_d	1.46	1.42	1.29	
Void ratio after consolidation		e_c	0.00	0.00	0.00	
Time for 50 percent consolidation		t_{50}				
Final	Water content (%)	w_f	31.17	32.90	41.81	
	Void Ratio	e_f	0.00	0.00	0.00	
	Saturation (%)	S_f	45.41	46.67	53.96	
Normal stress (kg/cm²)		σ	0.24	0.73	1.22	
Maximum shear stress (kg/cm²)		τ_{max}	0.90	1.58	1.71	
Actual time to failure (min)		t_f	19	17	23	
Rate of strain			0.004 in/min →		→	
Ultimate shear stress (kg/cm²)		τ_{ult}	0.53	0.98	1.33	

Strength Parameters

Type of Specimen	1.944				
Description	Moist soft lt. brn. calcareous sandy silt				
LL 0.0	PL 0.0	PI 0.0		G_s	0
Remarks	---	Project	11-091801		
		Area	19.15 (cm²)	Boring No.	600-3
		Depth	---	Sample No.	1-IV
		Elevation	---	Date	06/29/00
		DIRECT SHEAR TEST REPORT			

EA # 11-091801

Direct Shear # 00046

Sample # 600-5-1-IV

Moisture Content Results of Direct Shear Test Sample

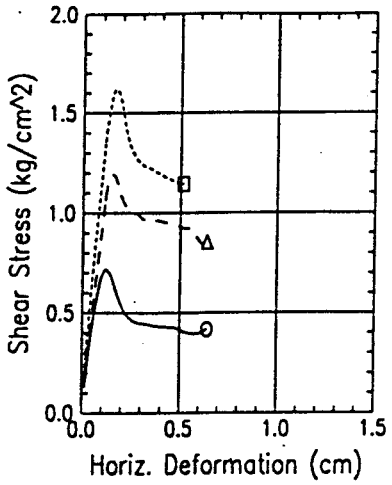
Before Test

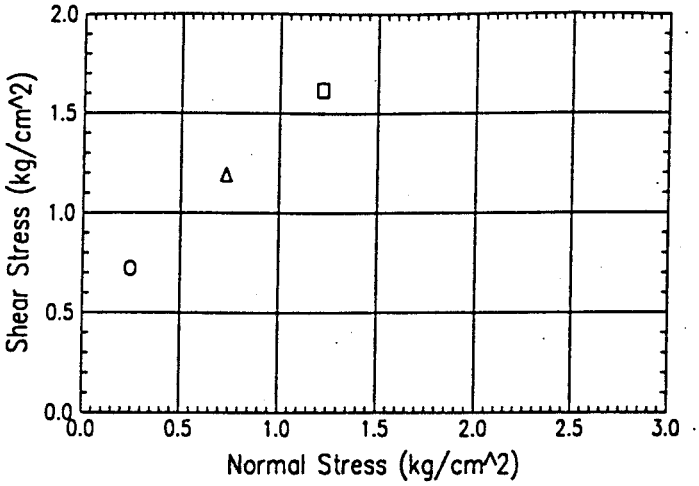
	A	B	C
Gross Wet wt. (gms)	116.9	117.3	115.6
Ring Tare wt. (gms)	24.6	24.2	23.
Net Wet wt. (gms)	92.3	93.1	92.6
Moisture (gms)	22.0	20.8	21.8
Moisture Content (%)	31.3	28.8	30.8
Trimmings + Can Tare (gms)	154.1	155.4	154.9

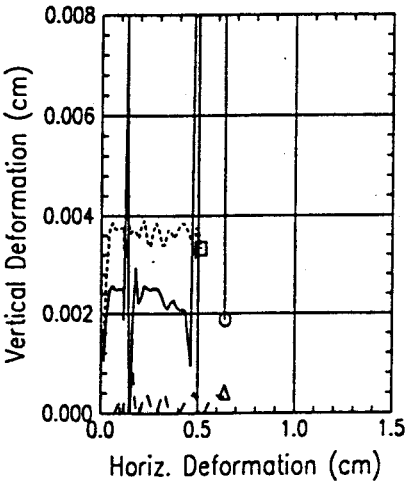
After Test

	A	B	C
Gross Wet wt. (gms)	155.1	156.7	155.9
Gross Dry wt. (gms)	132.1	134.6	133.1
Can Tare (gms)	61.8	62.3	62.3
Moisture (gms)	23.0	22.1	22.8
Net Dry wt. (gms)	70.3	72.3	70.8
Moisture (%)	32.7	30.6	32.2

	A	B	C
Wet trimmings + Can tare (gms)	154.1	155.4	154.9
Dry Trimmings + Can Tare (gms)	132.1	134.6	133.1
Can Tare wt. (gms)	61.8	62.3	62.3
Wet Specimen + Tare Before Test (gms)	154.1	155.4	154.9
Wet Specimen + Tare After Test (gms)	155.1	156.7	155.9
Dry Specimen + Tare After Test (gms)	132.1	134.6	133.1







Graph Symbol			○	△	□	
Test No.			DS00046	DS00046	DS00046	
Initial	Water content (%)	w_o	31.29	28.77	30.79	
	Void ratio	e_o	0.00	0.00	0.00	
	Saturation (%)	S_o	45.23	42.76	44.82	
	Dry density (gm/cm³)	γ_d	1.45	1.49	1.46	
Void ratio after consolidation		e_c	0.00	0.00	0.00	
Time for 50 percent consolidation		t_{50}				
Final	Water content (%)	w_f	32.72	30.57	32.20	
	Void Ratio	e_f	0.00	0.00	0.00	
	Saturation (%)	S_f	47.32	45.44	46.94	
Normal stress (kg/cm²)		σ	0.24	0.73	1.22	
Maximum shear stress (kg/cm²)		τ_{max}	0.72	1.19	1.62	
Actual time to failure (min)		t_f	12	16	17	
Rate of strain			0.004 in./min	0.004 in./min	0.004 in./min	
Ultimate shear stress (kg/cm²)		τ_{ult}	0.42	0.86	1.14	

Strength Parameters

Type of Specimen	1.944				
Description	Moist firm lt. brn. calcareous sandy silt				
LL 0.0	PL 0.0	PI 0.0		G_s	0
Remarks	---	Project	11-091801		
		Area	19.15 (cm²)	Boring No.	600-5
		Depth	---	Sample No.	1-IV
		Elevation	---	Date	07/13/00

DIRECT SHEAR TEST REPORT

ENGINEERING SERVICE CENTER

TRANSPORTATION LABORATORY
OFFICE OF GEOTECHNICAL SUPPORT
5900 Folsom Boulevard
Sacramento, CA 95819-4612

Date: 7/25/2000

To: Martin Skyrman

From: Soils Laboratory

RE: Test Results

Job No. 11-091801 905 Phase I GDR

Final test results.

STATE OF C, ORNIA - DEPARTMENT OF TRANSPORTATION
OFFICE OF GEOTECHNICAL SUPPORT - GEOTECHNICAL LABORATORY

DENSITY - WATER CONTENT

JOB NUMBER 11-091801 DATE 11-Jul-00 TEST BY LP CHECKED BY KS 7/13 gm 7/13

SAMPLE NO.	WET WT. +TARE (g)	DRY WT. +TARE (g)	WT. OF WATER (g)	TARE WT. (g)	WT. OF DRY SOIL (g)	% WATER	DIAM. SAMPLE (mm)	LENGTH SAMPLE (mm)	VOLUME (cm^3)	WET WT. + TARE (g)	TARE WT. (g)	WT. OF WET SOIL (g)	WET DENS (g/cm^3)	DRY DENS (g/cm^3)
600-1-2-III	189.8	163.2	26.6	62.4	100.8	26.4	49.5	101.5	195.3	474.9	94.0	380.9	1.95	1.54
600-1-3-III	188.0	160.1	27.9	62.2	97.9	28.5	49.0	101.5	191.4			372.3	1.95	1.51
600-1-3-I	222.6	186.4	36.2	62.2	124.2	29.1	49.1	102.0	193.1			381.2	1.97	1.53
600-1-4-II	208.0	171.2	36.8	65.0	106.2	34.7	49.1	102.0	193.1			359.7	1.86	1.38
600-2-1-IV	197.7	166.4	31.3	55.6	110.8	28.2	48.6	102.5	190.1			364.0	1.91	1.49
600-2-2-III	191.3	157.0	34.3	62.0	95.0	36.1	48.9	101.2	190.0			353.1	1.86	1.37
600-2-3-II	205.4	171.8	33.6	64.4	107.4	31.3	49.4	100.8	193.2			375.2	1.94	1.48
600-5-1-I	216.9	175.3	41.6	58.1	117.2	35.5	49.4	100.5	192.6			359.1	1.86	1.38

* Received fractured
** Disintegrated while preparing for testing
*** Received dessicated - results may not represent true soil conditions

STA. OF CALIFORNIA
DEPT OF TRANSPORTATION
SOILS LAB

E.A. 11-091801

Br. #

CLASSIFICATION TEST SUMMARY

LOCATION	% FINER THAN															ATT. LIMITS		Gs	IN-SITU		LAB. COMP	
Sample I.D.	1 1/2	1	3/4	1/2	3/8	4	8	16	30	50	100	200	5μ	2μ	1μ	LL	PI		γ_d	%m	γ_d	%m
600-1-1-IV						100	97	91	80	65	51	37	12	-	5			2.70		31.7		
600-1-1-III																		2.71		31.7		
600-1-1-II																38	9			30.0		
600-1-2-IV						100	98	95	88	76	66	54	9	-	4			2.73		27.0		
600-1-2-III					100	99	97	92	82	67	55	40	10	-	4					26.4		
600-1-3-III																				28.5		
600-1-3-I																				29.1		
600-1-4-II																				34.7		
600-2-1-IV																54	31			28.2		
600-2-1-II					100	99	93	85	74	60	47	32	8	-	4					27.4		
600-2-2-III						100	96	89	79	63	47	33	11	-	6					36.1		
600-2-3-II																				31.3		
600-3-1-IV																				35.5		
600-3-1-III						100	98	96	88	70	54	39	13	-	5			2.67		27.1		
600-3-1-II																				17.6		
600-4-2-VIII						100	98	94	86	74	61	45	10	-	4			2.70		30.6		
600-5-1-IV						100	99	98	91	91	66	54	15	-	6					30.4		
600-5-1-III						100	99	97	89	73	59	45	11	-	3			2.72		31.8		
600-5-1-II																49	24			32.4		
600-5-1-I																		2.74		35.5		

* Sample received fractured -- Not suitable for testing
** Sample disintegrated while preparing for testing -- Not suitable for testing
*** Sample received desiccated -- Test results may not represent the true soil conditions

CONSOLIDATION TEST DATA

't : PHASE I GDR
No.: 600-1
le No.: 600-1-1-II
No. : 00104-G1

Location : 11-SD-905
Tested by : GORDON
Test Date : 6/21/00
Sample Type: 1.944

Project No.: 11-091801
Checked by : HF 6/27 gjm 6/27
Depth : 6.5

Description : MOIST STIFF TAN & WHITE CLAY WITH SAND
:ks :

APPLIED PRESSURE (kPa)	FINAL DISPLACEMENT (mm)	VOID RATIO	STRAIN AT END (%)	FITTING T50 TIME (min) SQ.RT.	LOG	COEFFICIENT OF CONSOLIDATION (m^2/s) SQ.RT.	LOG	AVE
11.97	0.03	0.917	0.17	0.7	0.0	4.07E-007	0.00E+000	4.07E-007
23.94	0.12	0.908	0.63	2.0	0.0	1.47E-007	0.00E+000	1.47E-007
47.88	0.26	0.893	1.39	1.1	0.0	2.68E-007	0.00E+000	2.68E-007
95.76	0.42	0.877	2.23	0.5	0.0	5.38E-007	0.00E+000	5.38E-007
191.52	0.65	0.854	3.42	0.6	0.0	4.58E-007	0.00E+000	4.58E-007
383.04	0.95	0.824	5.01	0.7	0.3	4.20E-007	9.11E-007	6.65E-007
766.08	1.36	0.783	7.15	0.5	0.0	5.18E-007	0.00E+000	5.18E-007
1532.17	1.93	0.726	10.13	0.8	0.0	3.28E-007	0.00E+000	3.28E-007
383.04	1.84	0.734	9.67	0.0	0.0	8.13E-006	0.00E+000	8.13E-006
95.76	1.73	0.746	9.08	0.1	0.0	3.15E-006	0.00E+000	3.15E-006
11.97	1.58	0.761	8.27	0.2	0.1	1.34E-006	3.44E-006	2.39E-006

CONSOLIDATION TEST DATA

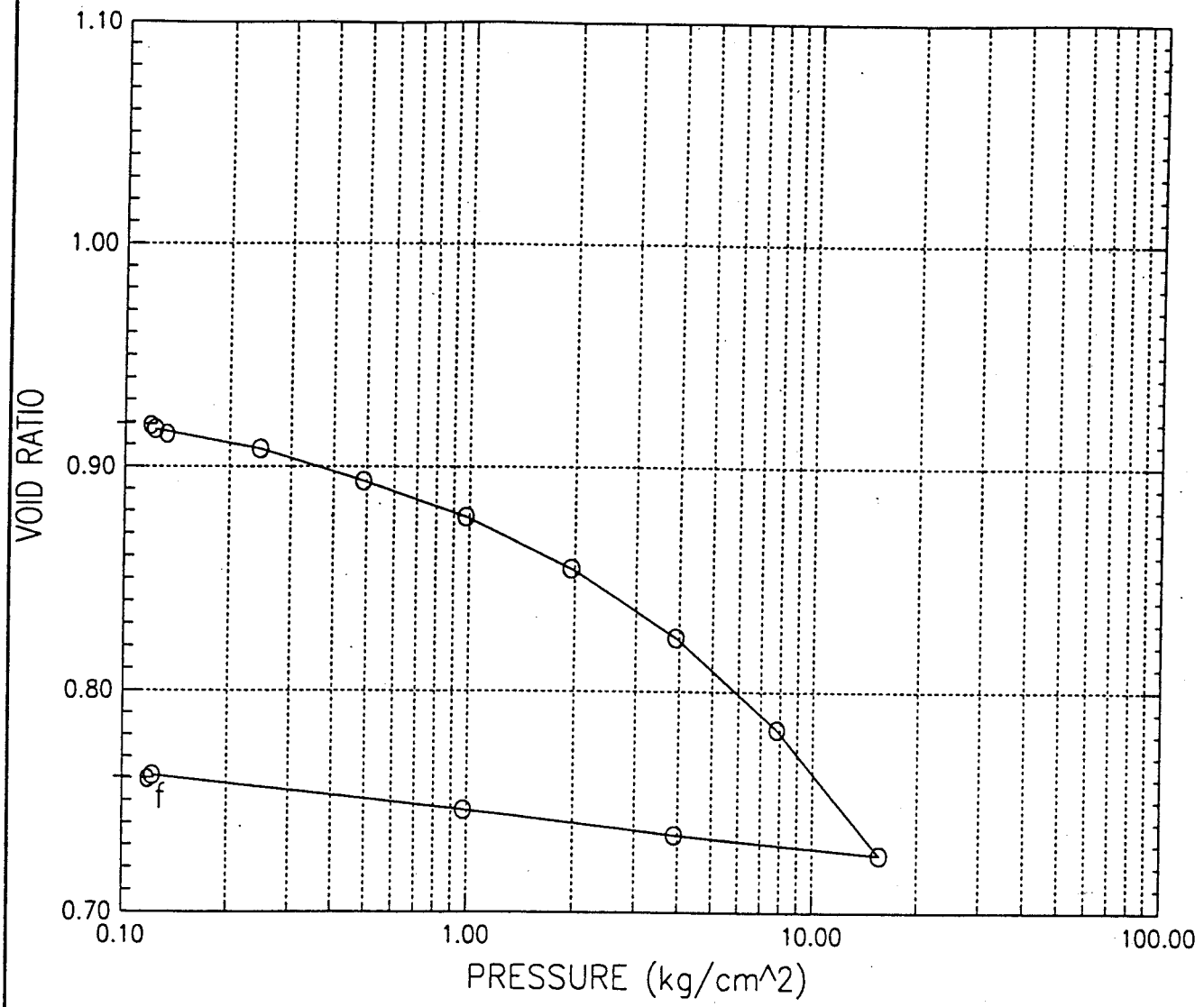
·t : PHASE I GDR	Location : 11-SD-905	Project No.: 11-091801
No.: 600-1	Tested by : GORDON	Checked by :
: No.: 600-1-1-II	Test Date : 6/21/00	Depth : 6.5
lo. : 00104-G1	Sample Type: 1.944	

)escription : MOIST STIFF TAN & WHITE CLAY WITH SAND

:s :

:ic Gravity : 2.70	Liquid Limit : 0	Initial Height : 19.05 (mm)
ıl Void Ratio : 0.92	Plastic Limit : 0	Sample Diameter : 49.38 (mm)
Void Ratio : 0.76	Plasticity Index : 0	

	BEFORE CONSOLIDATION		AFTER CONSOLIDATION	
	TRIMMINGS	SPECIMEN + RING	SPECIMEN + RING	TRIMMINGS
:NER NO.		RING	RING	
ITAINER + WET SOIL (gm)	92.30	92.30	91.00	91.00
ITAINER + DRY SOIL (gm)	75.50	75.50	75.50	75.50
ITAINER (gm)	24.30	24.30	24.30	24.30
' SOIL (gm)	51.20	51.20	51.20	51.20
CONTENT (%)	32.81	32.81	30.27	30.27
ıATIO	------	0.92	0.76	------
: OF SATURATION (%)	------	96.10	107.16	------
'NSITY (gm/mm^3)	------	0.0014	0.0015	------



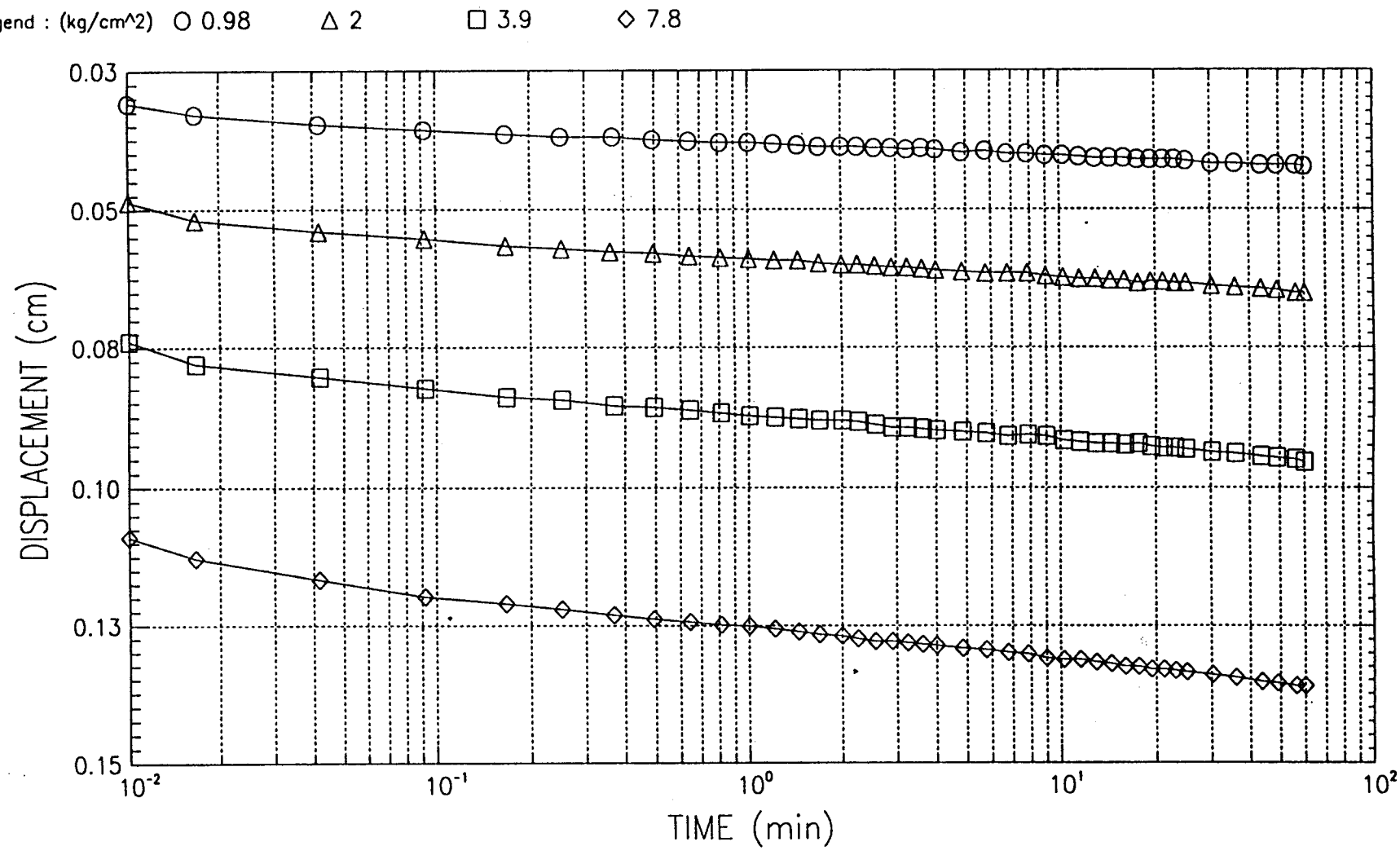
			BEFORE TEST	AFTER TEST
OVERBURDEN PRESSURE (kg/cm^2)	---	WATER CONTENT (%)	32.8	30.3
PRECONSOL. PRESSURE (kg/cm^2)	---	DRY DENSITY (gm/cm^3)	1.40	1.53
COMPRESSION INDEX	---	SATURATION (%)	96.10	107.16
TYPE SPECIMEN	1.944	VOID RATIO	0.92	0.76
DIA. (cm) 4.938	HT. (cm) 1.905	BACK PRESSURE (kg/cm^2)	---	---

CLASSIFICATION MOIST STIFF TAN & WHITE CLAY WITH SAND

LL ---	PL ---	PI ---	PROJECT PHASE I GDR
GS 2.695	D_{10} ---		Data File: C:\SOILTE~1\CONSOL~1\00104-g1.asc
REMARKS			BORING NO. 600-1 / SAMPLE NO. 600-1-1-II
			DEPTH 6.5 / DATE 6/21/00

CONSOLIDATION TEST REPORT

Mon 06-26-:0, 13:18:18



PROJECT	PHASE I GDR		CONSOLIDATION TEST TIME CURVES
Data File:	C:\SOILTE~1\CONSOL~1\00104-g1.asc		
BORING	600-1	SAMPLE NO. 600-1-1-II	
DEPTH	6.5	DATE 6/21/00	

CONSOLIDATION TEST DATA

Project: PHASE I GDR
Boring No.: 600-1
Sample No.: 600-1-2-IV
Test No.: 00100-G3

Location: 11-SD-905
Tested By: GR
Test Date: 6/16/00
Sample Type: 1.944

Project No.: 11-091801
Checked By: 4 6/16 gfm 6/17
Depth: 10.5'
Elevation: ---

Soil Description: MOIST STIFF WHITE & TAN CLAY WITH COARSE SAND
Remarks:

Specific Gravity: 2.73
Initial Void Ratio: 0.79
Final Void Ratio: 0.74

Liquid Limit: 0
Plastic Limit: 0
Plasticity Index: 0

Initial Height: 1.00 in
Specimen Diameter: 1.94 in

	Before Consolidation		After Consolidation	
	Trimmings	Specimen+Ring	Specimen+Ring	Trimmings
Container ID		RING		
Wt. Container + Wet Soil, gm	118	118	117.4	117.4
Wt. Container + Dry Soil, gm	97.7	97.7	97.7	97.7
Wt. Container, gm	23.6	23.6	23.6	23.6
Wt. Dry Soil, gm	74.1	74.1	74.1	74.1
Water Content, %	27.40	27.40	26.59	26.59
Void Ratio	---	0.79	0.74	---
Degree of Saturation, %	---	94.31	98.65	---
Dry Unit Weight, pcf	---	95.107	98.252	---

CONSOLIDATION TEST DATA

Project: PHASE I GDR
Boring No.: 600-1
Sample No.: 600-1-2-IV
Test No.: 00100-G3

Location: 11-SD-905
Tested By: GR
Test Date: 6/16/00
Sample Type: 1.944

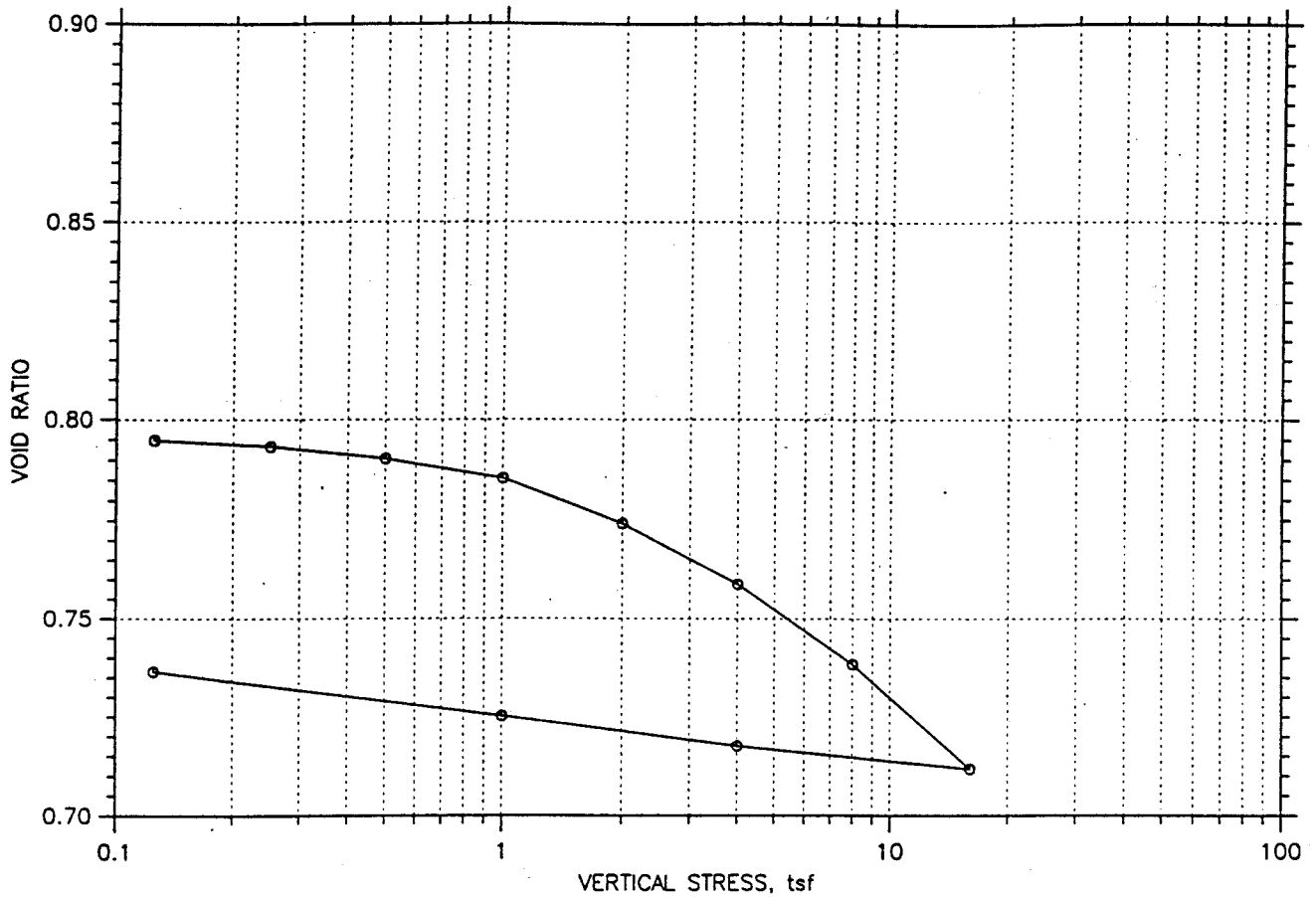
Project No.: 11-091801
Checked By:
Depth: 10.5'
Elevation: ---

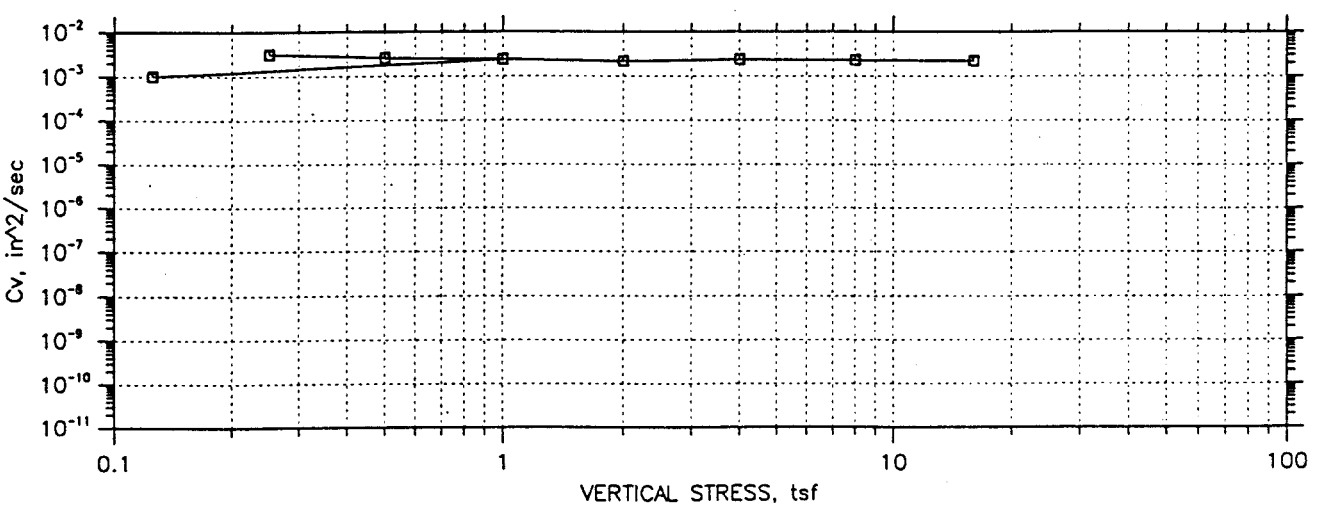
Soil Description: MOIST STIFF WHITE & TAN CLAY WITH COARSE SAND
Remarks:

	Applied Stress tsf	Final Displacement in	Void Ratio	Strain at End %	T50 Fitting Sq.Rt. min	T50 Fitting Log min	Coefficient of Consolidation Sq.Rt. in^2/sec	Coefficient of Consolidation Log in^2/sec	Coefficient of Consolidation Ave. in^2/sec
1	0.125	-0.0005432	0.795	-0.05	0.0	0.0	0.00e+000	0.00e+000	0.00e+000
2	0.25	0.0003031	0.793	0.03	0.3	0.0	3.11e-003	0.00e+000	3.11e-003
3	0.5	0.001968	0.790	0.20	0.3	0.0	2.57e-003	0.00e+000	2.57e-003
4	1	0.004733	0.785	0.47	0.3	0.0	2.42e-003	0.00e+000	2.42e-003
5	2	0.01103	0.774	1.10	0.4	0.0	2.18e-003	0.00e+000	2.18e-003
6	4	0.0196	0.759	1.96	0.3	0.0	2.37e-003	0.00e+000	2.37e-003
7	8	0.03098	0.738	3.10	0.3	0.0	2.28e-003	0.00e+000	2.28e-003
8	16	0.04582	0.712	4.58	0.3	0.0	2.20e-003	0.00e+000	2.20e-003
9	4	0.04257	0.718	4.26	0.0	0.0	0.00e+000	0.00e+000	0.00e+000
10	1	0.03835	0.725	3.84	0.3	0.0	2.37e-003	0.00e+000	2.37e-003
11	0.125	0.032	0.737	3.20	0.8	0.0	1.02e-003	0.00e+000	1.02e-003

CONSOLIDATION TEST DATA

SUMMARY REPORT



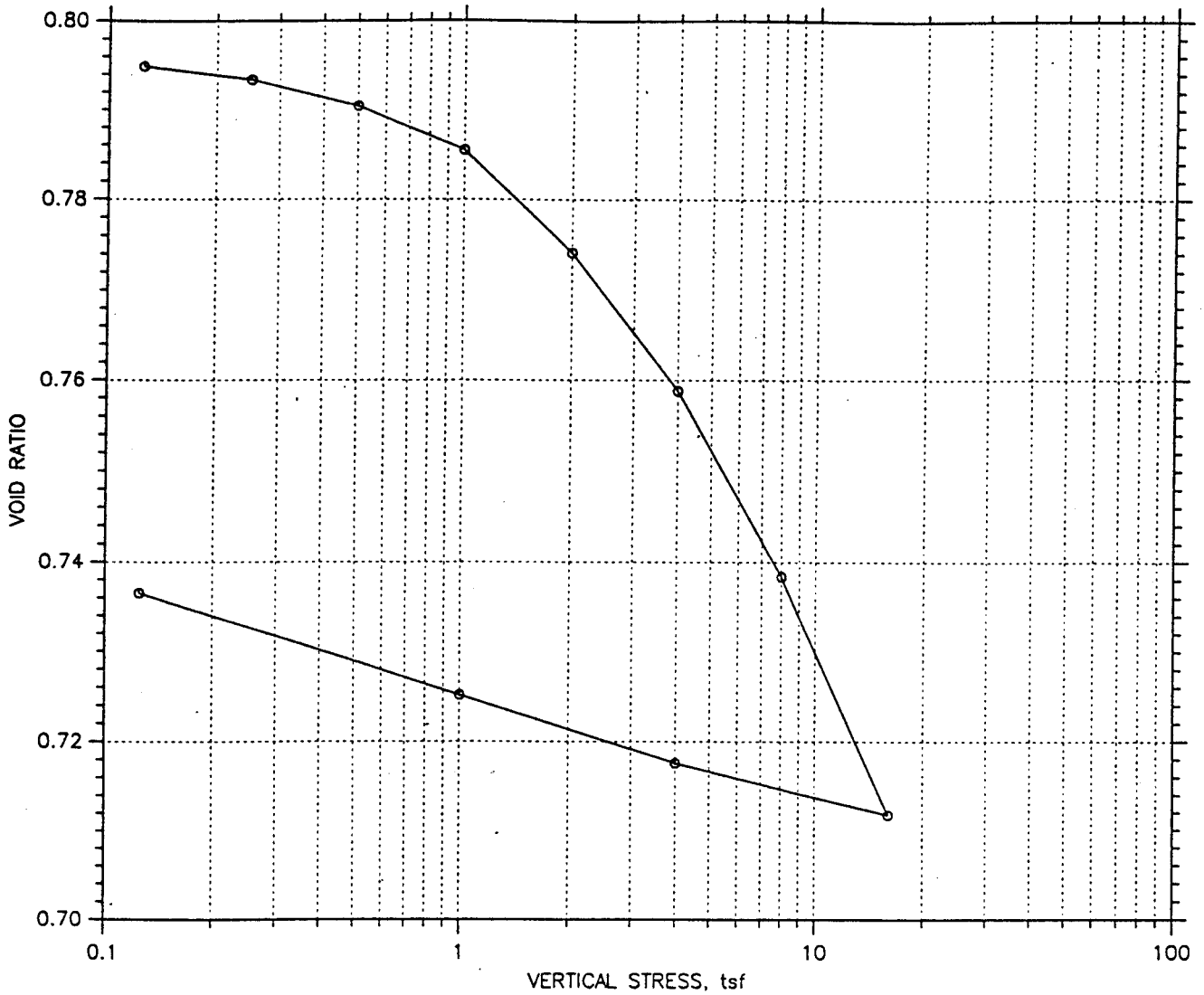


Project: PHASE I GDR	Location: 11-SD-905	Project No.: 11-091801
Boring No.: 600-1	Tested By: GR	Checked By:
Sample No.: 600-1-2-IV	Test Date: 6/16/00	Depth: 10.5'
Test No.: 00100-G3	Sample Type: 1.944	Elevation: ---
Description: MOIST STIFF WHITE & TAN CLAY WITH COARSE SAND		
Remarks:		

23-JUN-2000 14:12:01

CONSOLIDATION TEST DATA

SUMMARY REPORT



					Before Test	After Test
Overburden Pressure, tsf:				Water Content, %	27.40	26.59
Preconsolidation Pressure, tsf:				Dry Unit Weight, pcf	95.107	98.252
Compression Index:				Saturation, %	94.31	98.65
Diameter: 1.944 in		Height: 1 in		Void Ratio	0.79	0.74
LL: 0	PL: 0	PI: 0	GS: 2.73			

Project: PHASE I GDR	Location: 11-SD-905	Project No.: 11-091801
Boring No.: 600-1	Tested By: GR	Checked By:
Sample No.: 600-1-2-IV	Test Date: 6/16/00	Depth: 10.5'
Test No.: 00100-G3	Sample Type: 1.944	Elevation: ---
Description: MOIST STIFF WHITE & TAN CLAY WITH COARSE SAND		
Remarks:		

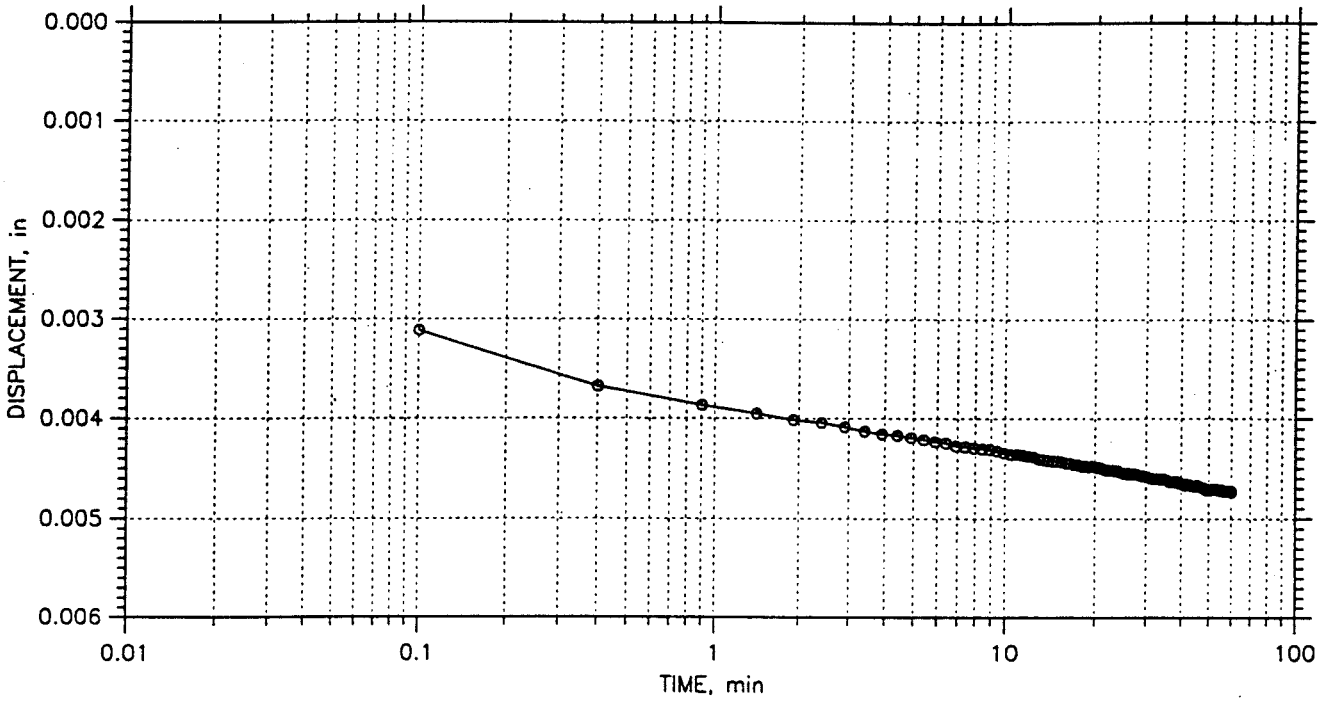
23-JUN-2000 14:12:01

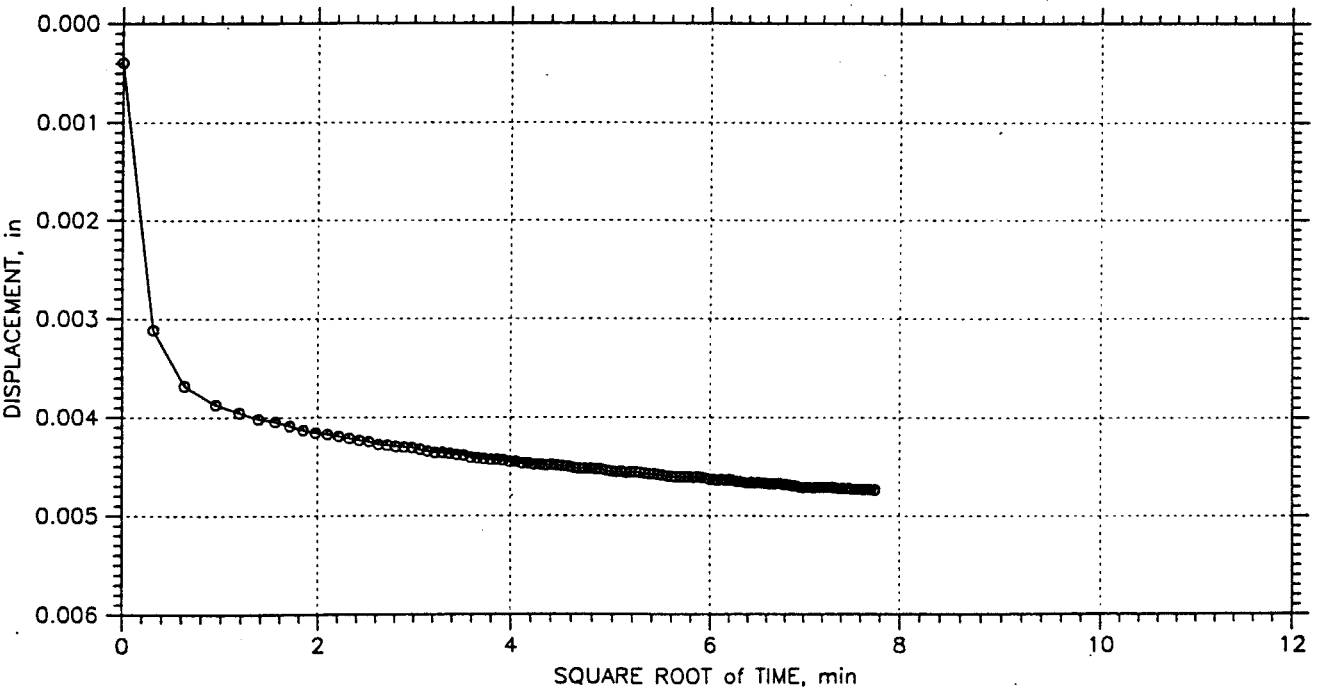
CONSOLIDATION TEST DATA

TIME CURVES

Step: 4 of 11

Stress: 1. tsf





Project: PHASE I GDR	Location: 11-SD-905	Project No.: 11-091801
Boring No.: 600-1	Tested By: GR	Checked By:
Sample No.: 600-1-2-IV	Test Date: 6/16/00	Depth: 10.5'
Test No.: 00100-G3	Sample Type: 1.944	Elevation: ---
Description: MOIST STIFF WHITE & TAN CLAY WITH COARSE SAND		
Remarks:		

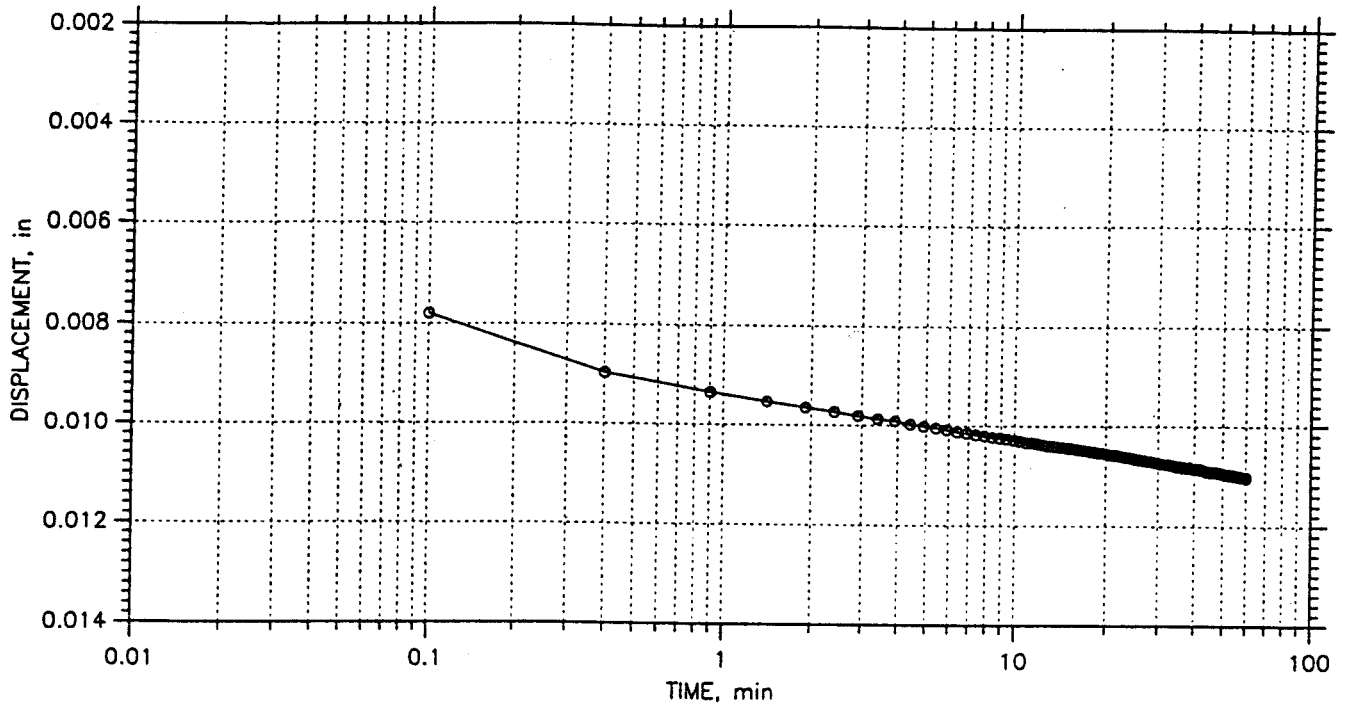
23-JUN-2000 14:12:23

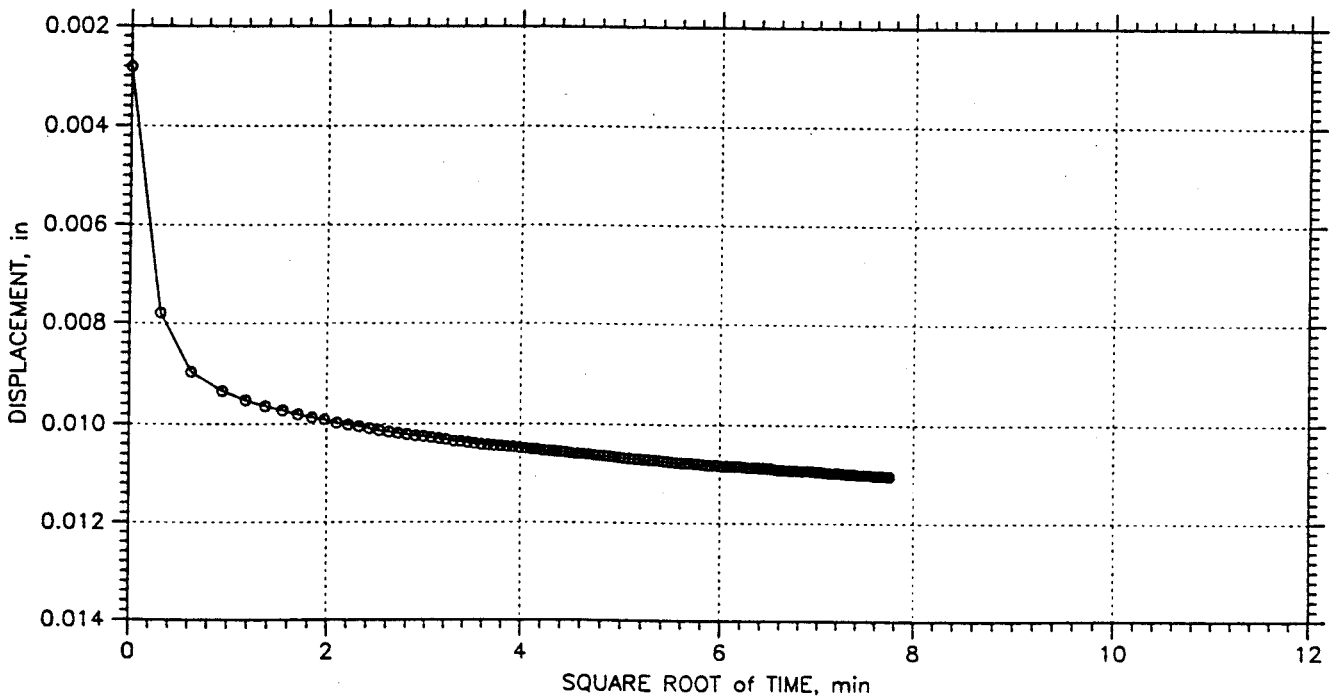
CONSOLIDATION TEST DATA

TIME CURVES

Step: 5 of 11

Stress: 2. tsf





Project: PHASE I GDR	Location: 11-SD-905	Project No.: 11-091801
Boring No.: 600-1	Tested By: GR	Checked By:
Sample No.: 600-1-2-IV	Test Date: 6/16/00	Depth: 10.5'
Test No.: 00100-G3	Sample Type: 1.944	Elevation: ---
Description: MOIST STIFF WHITE & TAN CLAY WITH COARSE SAND		
Remarks:		

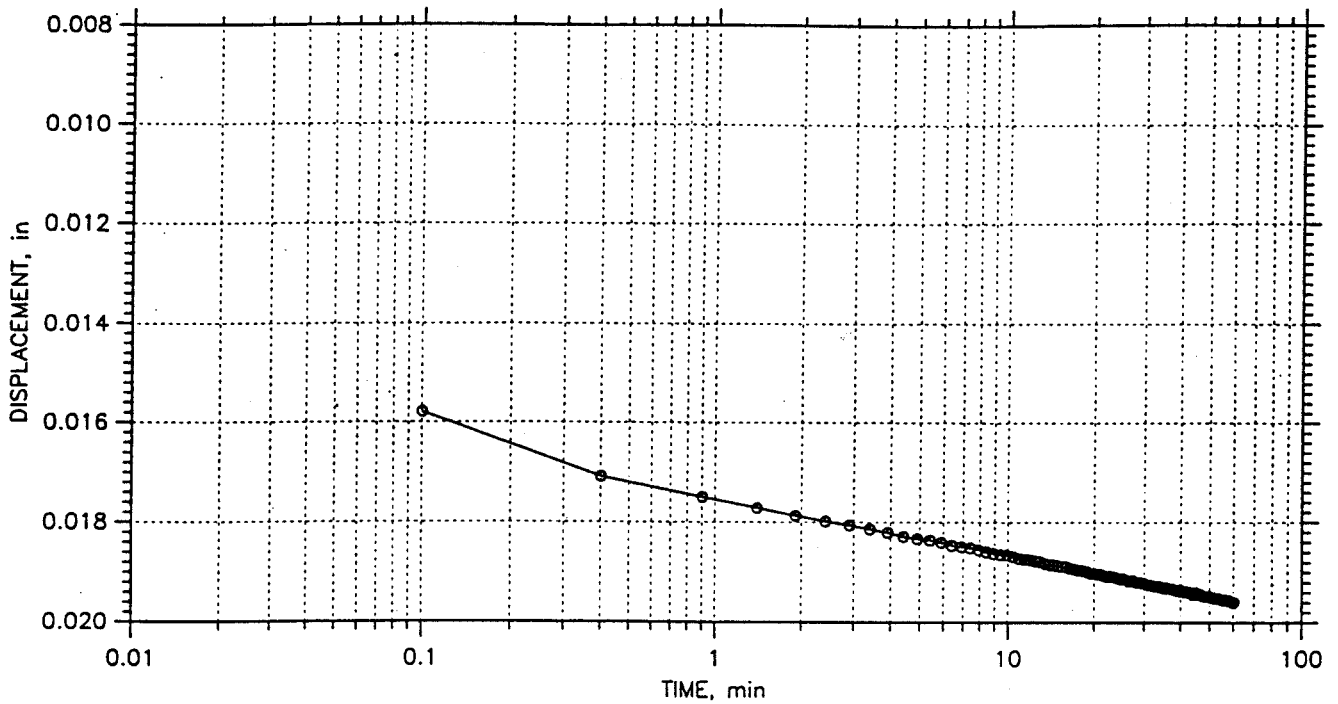
23-JUN-2000 14:12:24

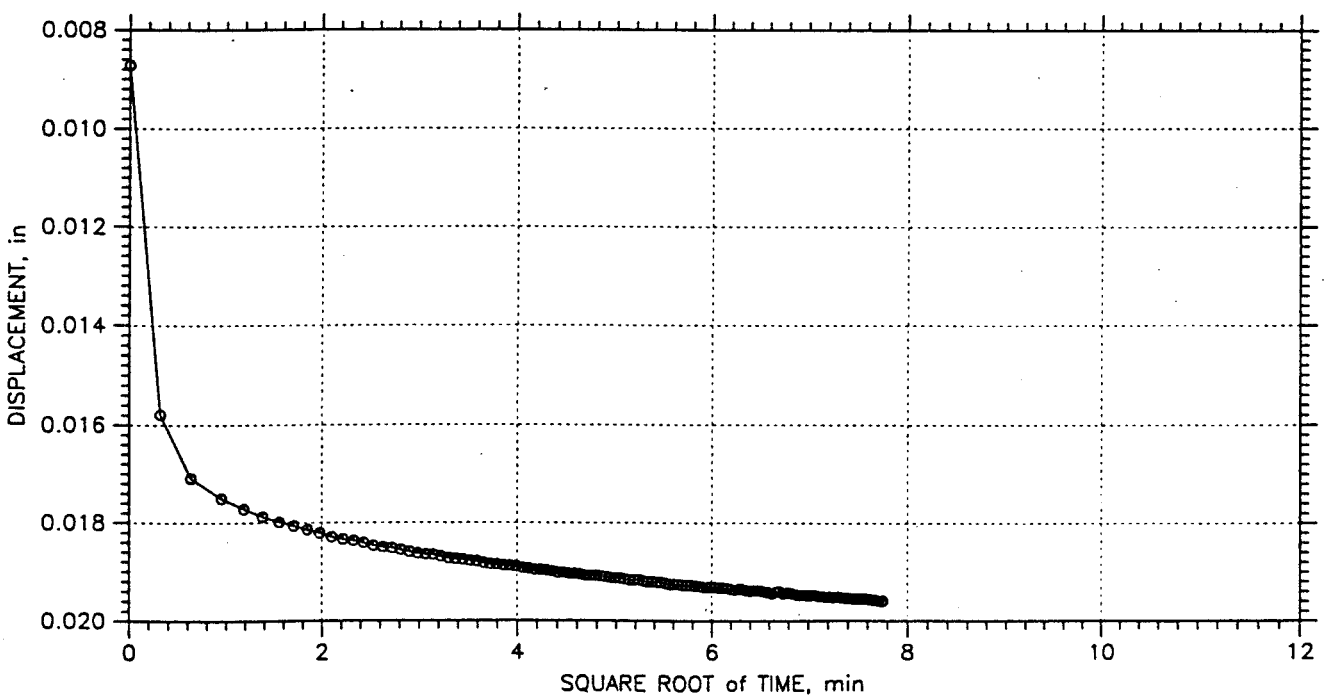
CONSOLIDATION TEST DATA

TIME CURVES

Step: 6 of 11

Stress: 4. tsf





Project: PHASE I GDR	Location: 11-SD-905	Project No.: 11-091801
Boring No.: 600-1	Tested By: GR	Checked By:
Sample No.: 600-1-2-IV	Test Date: 6/16/00	Depth: 10.5'
Test No.: 00100-G3	Sample Type: 1.944	Elevation: ---
Description: MOIST STIFF WHITE & TAN CLAY WITH COARSE SAND		
Remarks:		

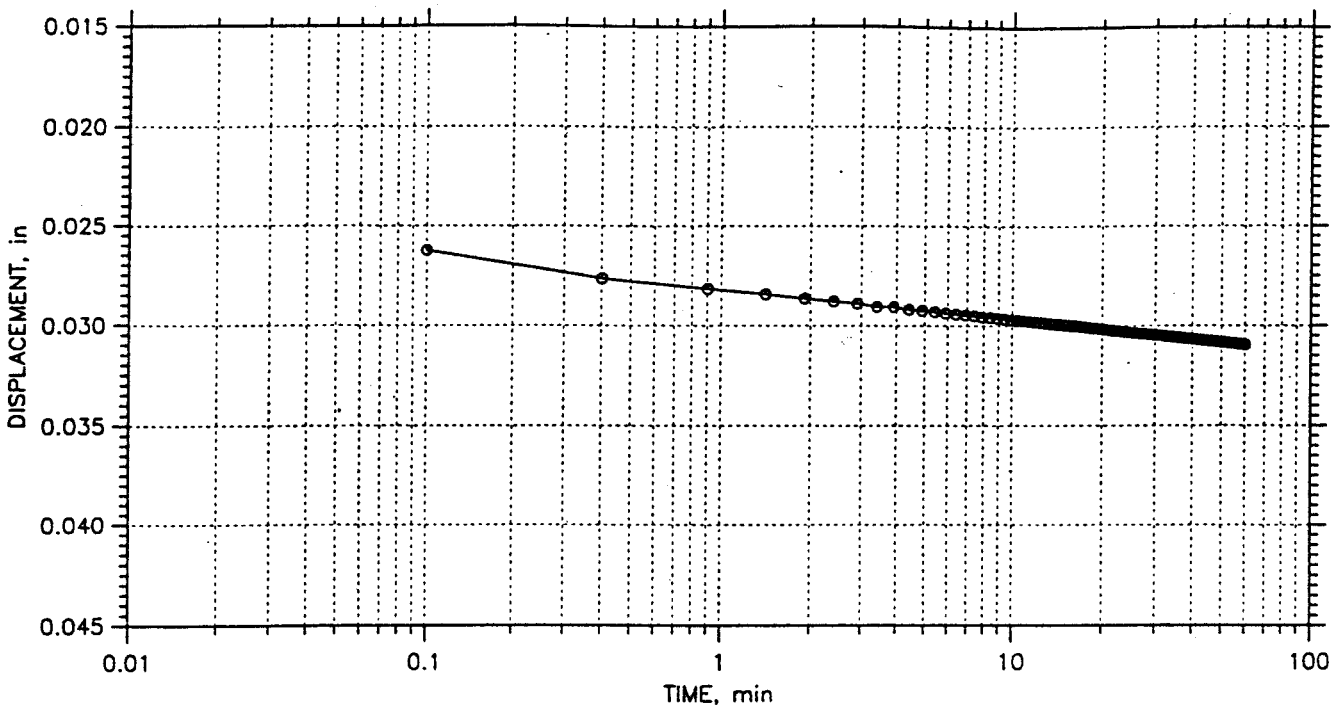
23-JUN-2000 14:12:26

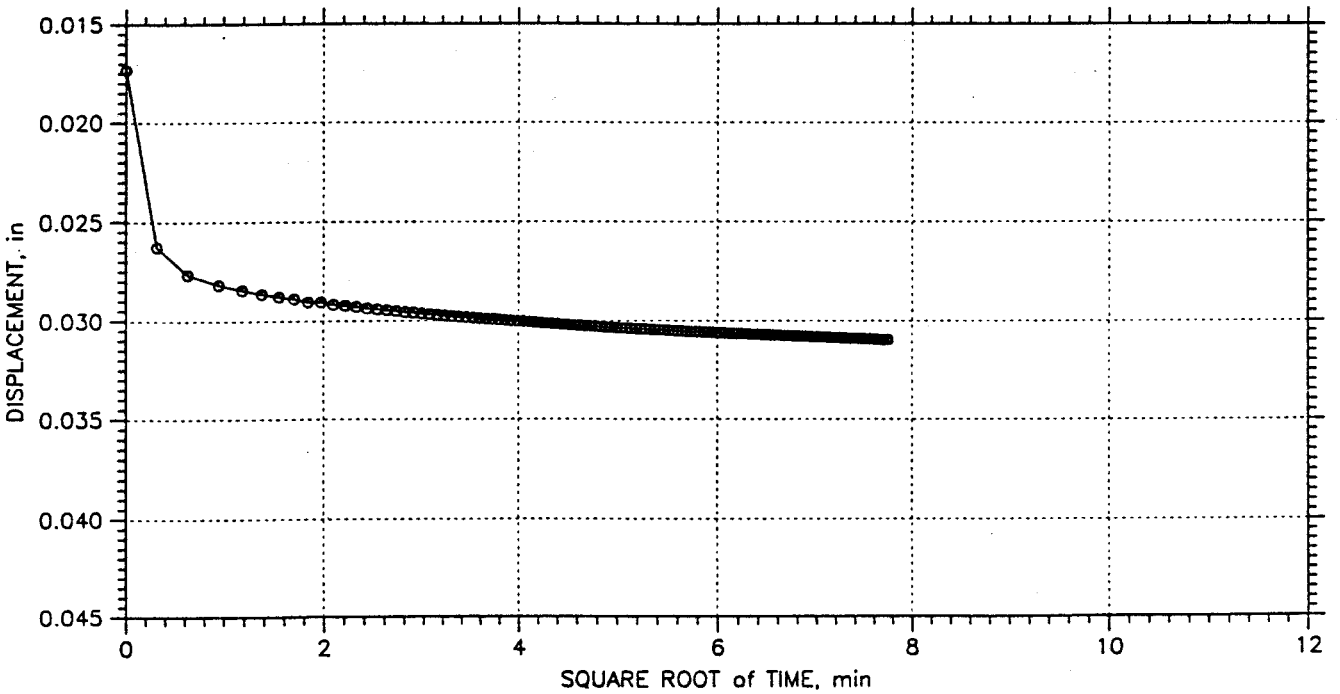
CONSOLIDATION TEST DATA

TIME CURVES

Step: 7 of 11

Stress: 8. tsf





Project: PHASE I GDR	Location: 11-SD-905	Project No.: 11-091801
Boring No.: 600-1	Tested By: GR	Checked By:
Sample No.: 600-1-2-IV	Test Date: 6/16/00	Depth: 10.5'
Test No.: 00100-G3	Sample Type: 1.944	Elevation: ---
Description: MOIST STIFF WHITE & TAN CLAY WITH COARSE SAND		
Remarks:		

23-JUN-2000 14:12:27

CONSOLIDATION TEST DATA

Project: PHASE I GDR
Boring No.: 600-3
Sample No.: 600-3-1-II
Test No.: 00105-G2

Location: 11-SD-905
Tested By: GR
Test Date: 6/21/00
Sample Type: 1.944

Project No.: 11-091801
Checked By: up 6/26 gfm 4-07
Depth: 6.5'
Elevation: ---

Soil Description: MOIST HARD TAN & WHITE CLAY WITH SAND
Remarks:

Specific Gravity: 2.67
Initial Void Ratio: 0.68
Final Void Ratio: 0.65

Liquid Limit: 0
Plastic Limit: 0
Plasticity Index: 0

Initial Height: 0.75 in
Specimen Diameter: 1.94 in

	Before Consolidation		After Consolidation	
	Trimmings	Specimen+Ring	Specimen+Ring	Trimmings
Container ID		RING		
Wt. Container + Wet Soil, gm	95.3	95.3	95.6	95.6
Wt. Container + Dry Soil, gm	81.3	81.3	81.3	81.3
Wt. Container, gm	23.5	23.5	23.5	23.5
Wt. Dry Soil, gm	57.8	57.8	57.8	57.8
Water Content, %	24.22	24.22	24.74	24.74
Void Ratio	---	0.68	0.65	---
Degree of Saturation, %	---	94.45	101.70	---
Dry Unit Weight, pcf	---	98.915	101.03	---

CONSOLIDATION TEST DATA

Project: PHASE I GDR
Boring No.: 600-3
Sample No.: 600-3-1-II
Test No.: 00105-G2

Location: 11-SD-905
Tested By: GR
Test Date: 6/21/00
Sample Type: 1.944

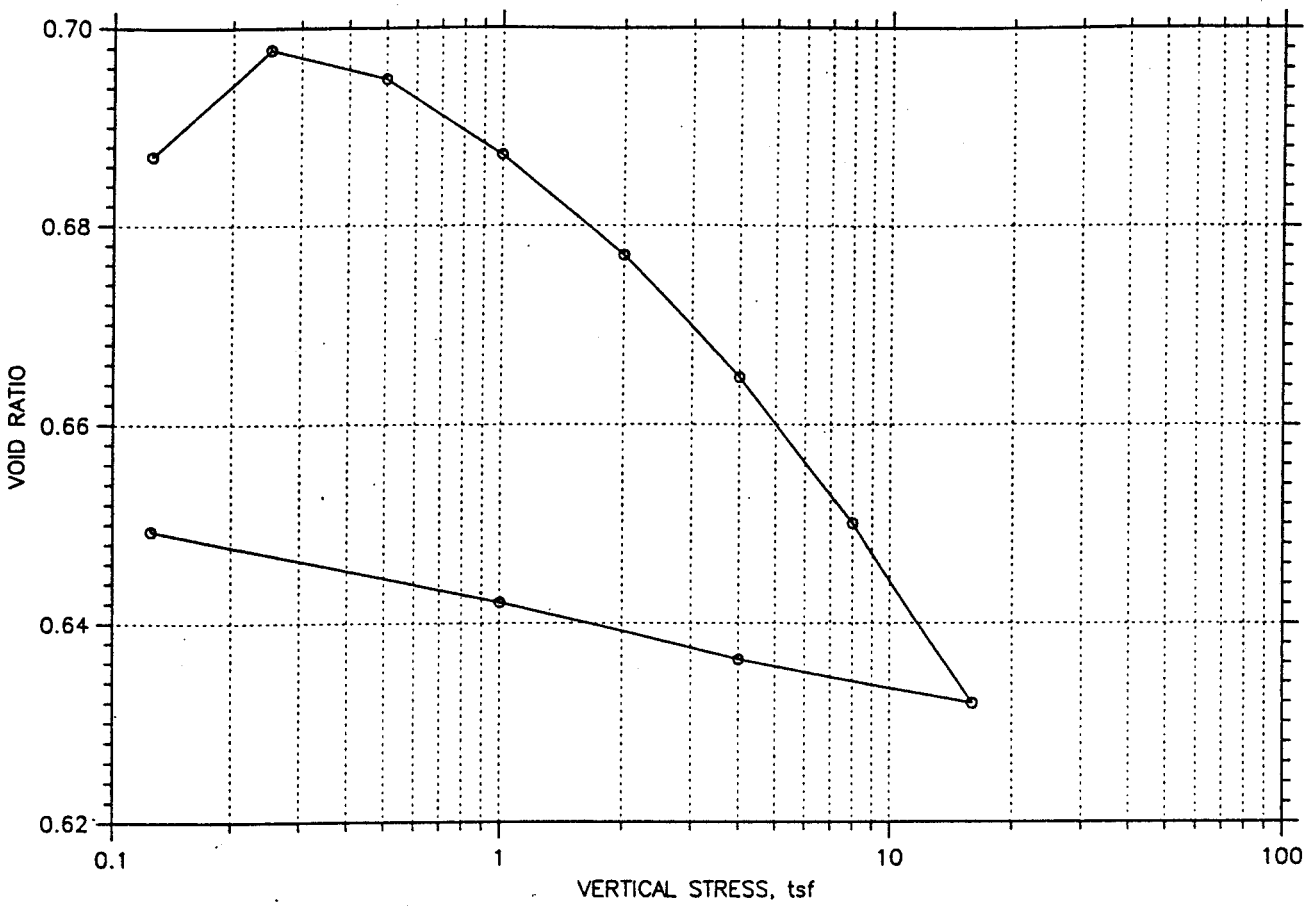
Project No.: 11-091801
Checked By:
Depth: 6.5'
Elevation: ---

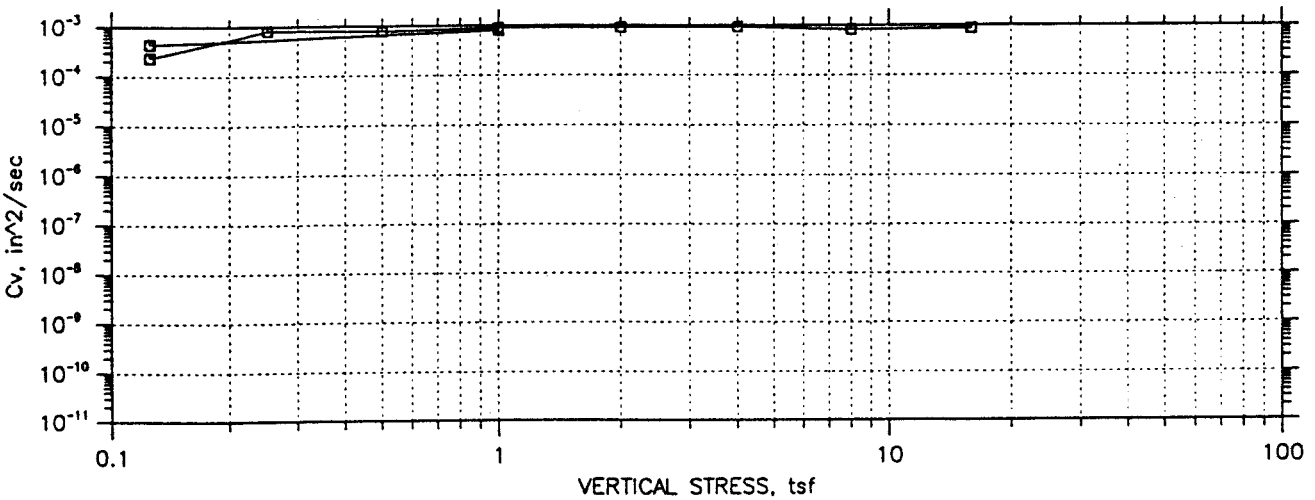
Soil Description: MOIST HARD TAN & WHITE CLAY WITH SAND
Remarks:

	Applied Stress tsf	Final Displacement in	Void Ratio	Strain at End %	T50 Fitting Sq.Rt. min	T50 Fitting Log min	Coefficient of Consolidation Sq.Rt. in^2/sec	Coefficient of Consolidation Log in^2/sec	Coefficient of Consolidation Ave. in^2/sec
1	0.125	-0.001141	0.687	-0.15	2.0	0.0	2.28e-004	0.00e+000	2.28e-004
2	0.25	-0.005938	0.698	-0.79	0.6	0.0	8.07e-004	0.00e+000	8.07e-004
3	0.5	-0.004639	0.695	-0.62	0.6	0.0	7.77e-004	0.00e+000	7.77e-004
4	1	-0.001226	0.687	-0.16	0.5	0.0	8.87e-004	0.00e+000	8.87e-004
5	2	0.003332	0.677	0.44	0.5	0.0	9.08e-004	0.00e+000	9.08e-004
6	4	0.008802	0.665	1.17	0.5	0.0	9.19e-004	0.00e+000	9.19e-004
7	8	0.01536	0.650	2.05	0.6	0.0	8.08e-004	0.00e+000	8.08e-004
8	16	0.02343	0.632	3.12	0.5	0.0	8.62e-004	0.00e+000	8.62e-004
9	4	0.02147	0.636	2.86	0.0	0.0	0.00e+000	0.00e+000	0.00e+000
10	1	0.01888	0.642	2.52	0.6	0.0	7.85e-004	0.00e+000	7.85e-004
11	0.125	0.01567	0.649	2.09	1.0	0.0	4.37e-004	0.00e+000	4.37e-004

CONSOLIDATION TEST DATA

SUMMARY REPORT

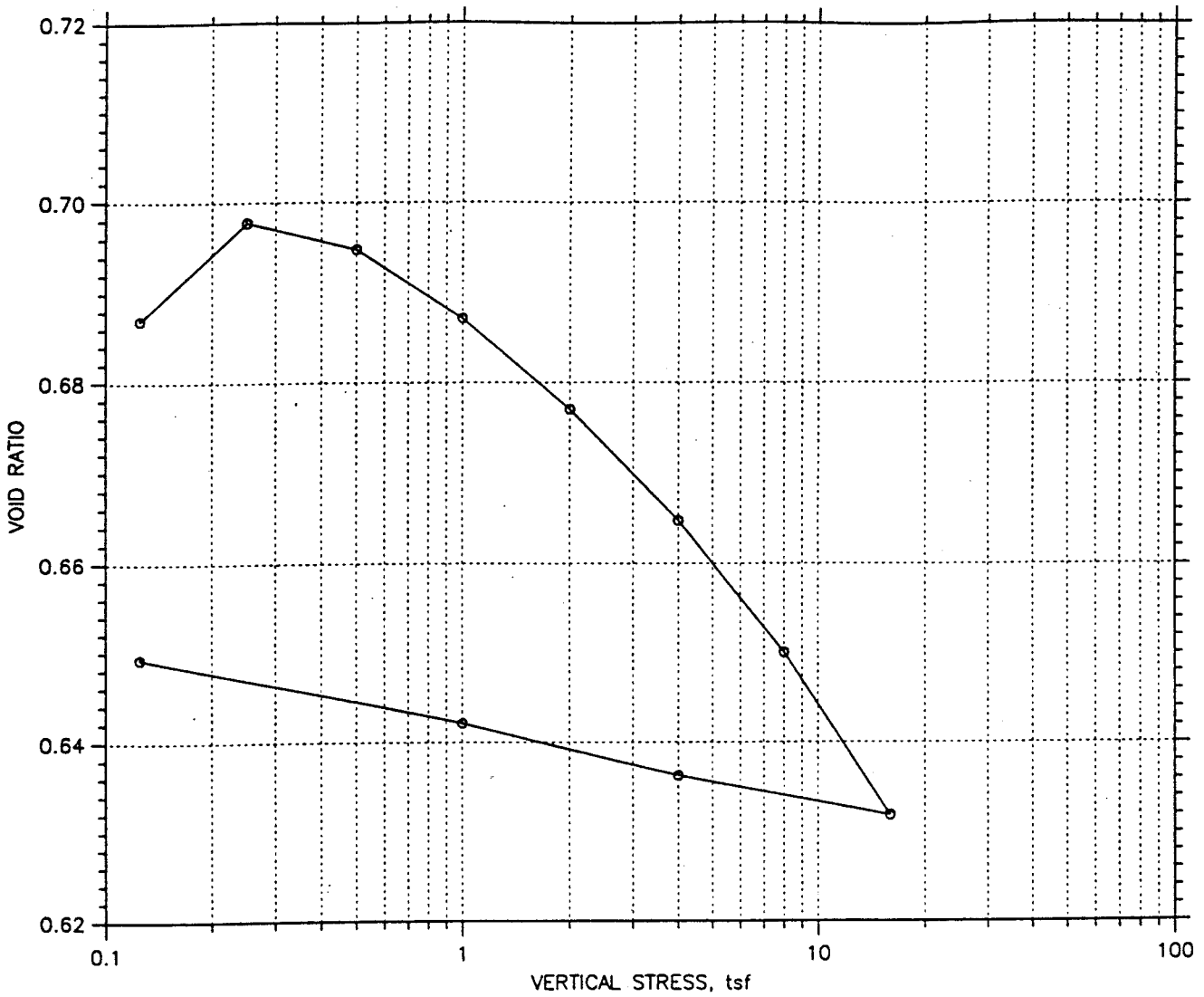




Project: PHASE I GDR	Location: 11-SD-905	Project No.: 11-091801
Boring No.: 600-3	Tested By: GR	Checked By:
Sample No.: 600-3-1-II	Test Date: 6/21/00	Depth: 6.5'
Test No.: 00105-G2	Sample Type: 1.944	Elevation: ---
Description: MOIST HARD TAN & WHITE CLAY WITH SAND.		
Remarks: During the initial load, the sample swelled when water was added. The next load wasn't applied in time.		

CONSOLIDATION TEST DATA

SUMMARY REPORT



					Before Test	After Test
Overburden Pressure, tsf:				Water Content, %	24.22	24.74
Preconsolidation Pressure, tsf:				Dry Unit Weight, pcf	98.915	101.03
Compression Index:				Saturation, %	94.45	101.70
Diameter: 1.944 in		Height: 0.75 in		Void Ratio	0.68	0.65
LL: 0	PL: 0	PI: 0	GS: 2.67			

Project: PHASE I GDR	Location: 11-SD-905	Project No.: 11-091801
Boring No.: 600-3	Tested By: GR	Checked By:
Sample No.: 600-3-1-II	Test Date: 6/21/00	Depth: 6.5'
Test No.: 00105-G2	Sample Type: 1.944	Elevation: ---
Description: MOIST HARD TAN & WHITE CLAY WITH SAND.		
Remarks: During the initial load, the sample swelled when water was added. The next load wasn't applied in time.		

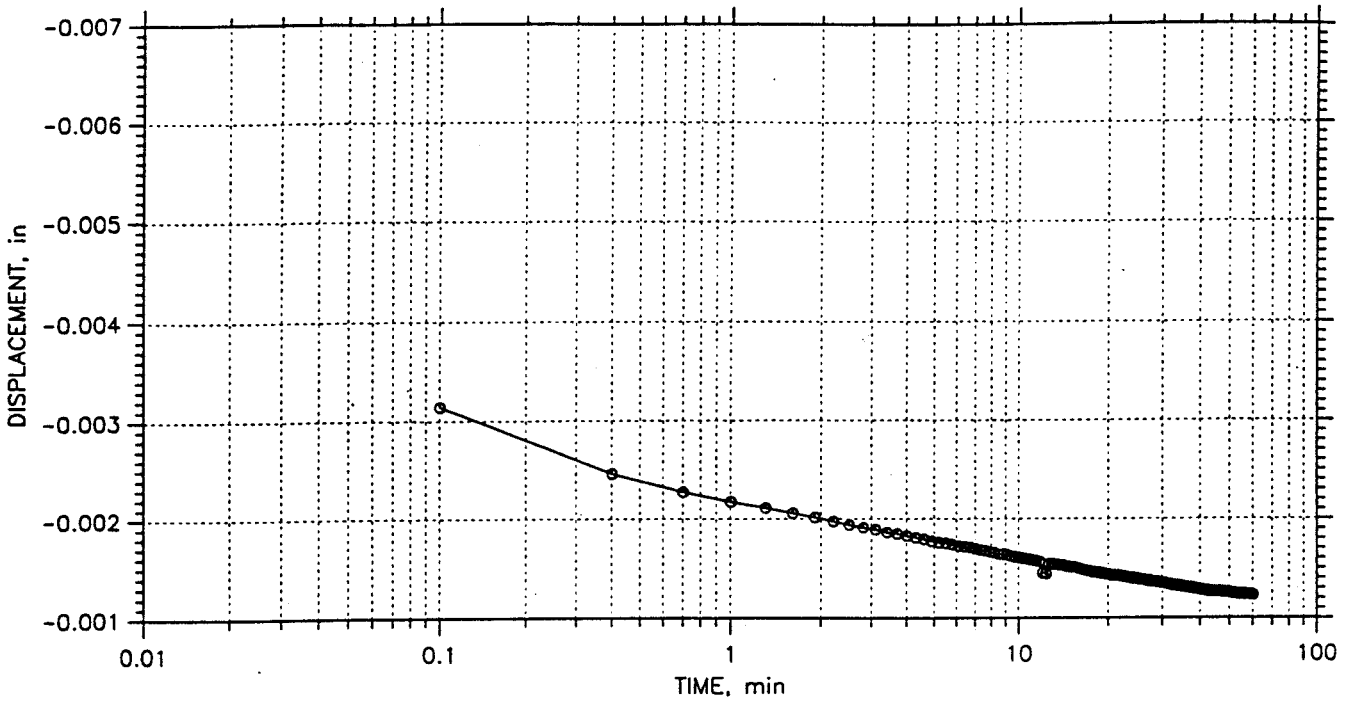
27-JUN-2000 13:20:33

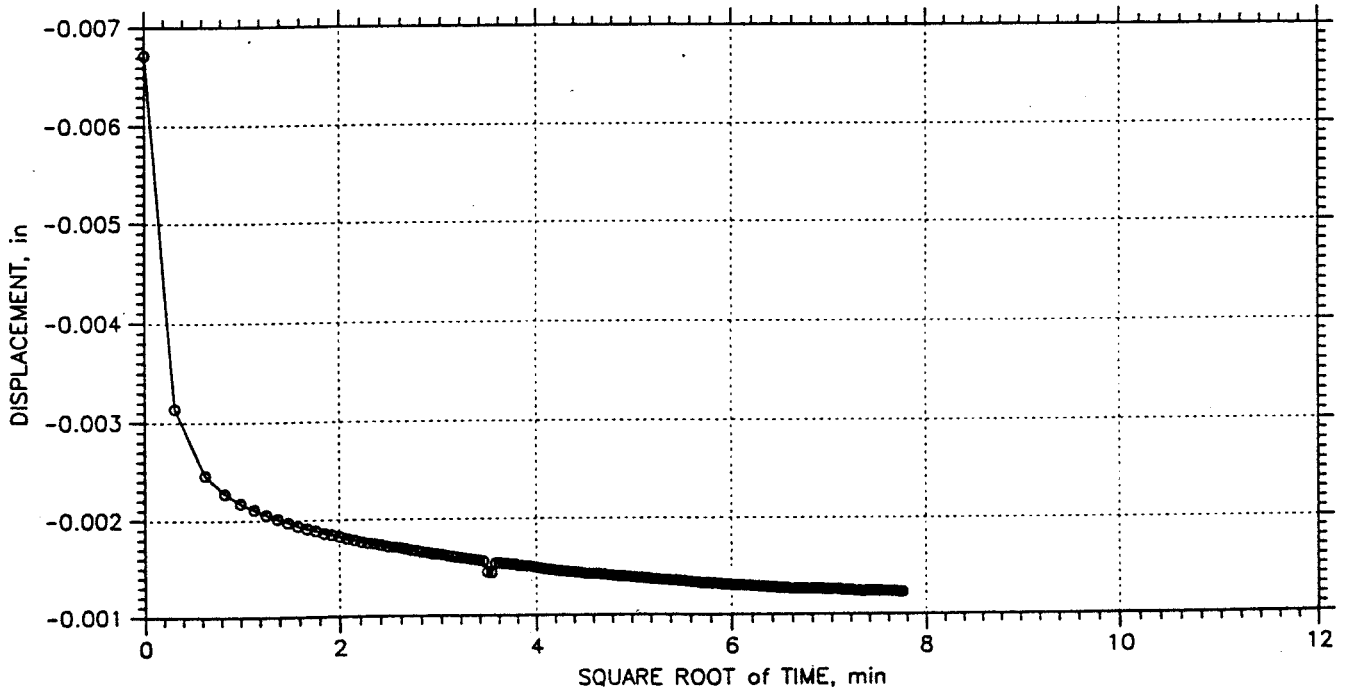
CONSOLIDATION TEST DATA

TIME CURVES

Step: 4 of 11

Stress: 1. tsf





Project: PHASE I GDR	Location: 11-SD-905	Project No.: 11-091801
Boring No.: 600-3	Tested By: GR	Checked By:
Sample No.: 600-3-1-II	Test Date: 6/21/00	Depth: 6.5'
Test No.: 00105-G2	Sample Type: 1.944	Elevation: ---
Description: MOIST HARD TAN & WHITE CLAY WITH SAND		
Remarks:		

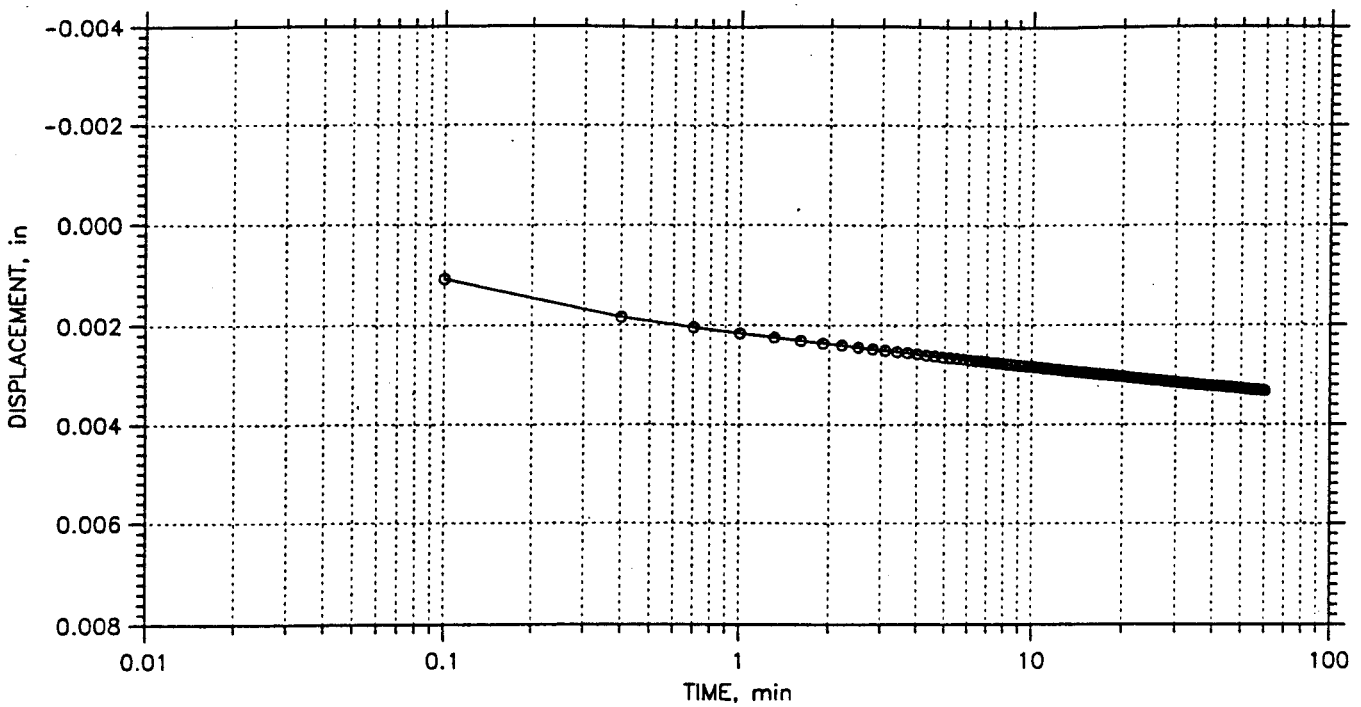
23-JUN-2000 14:25:35

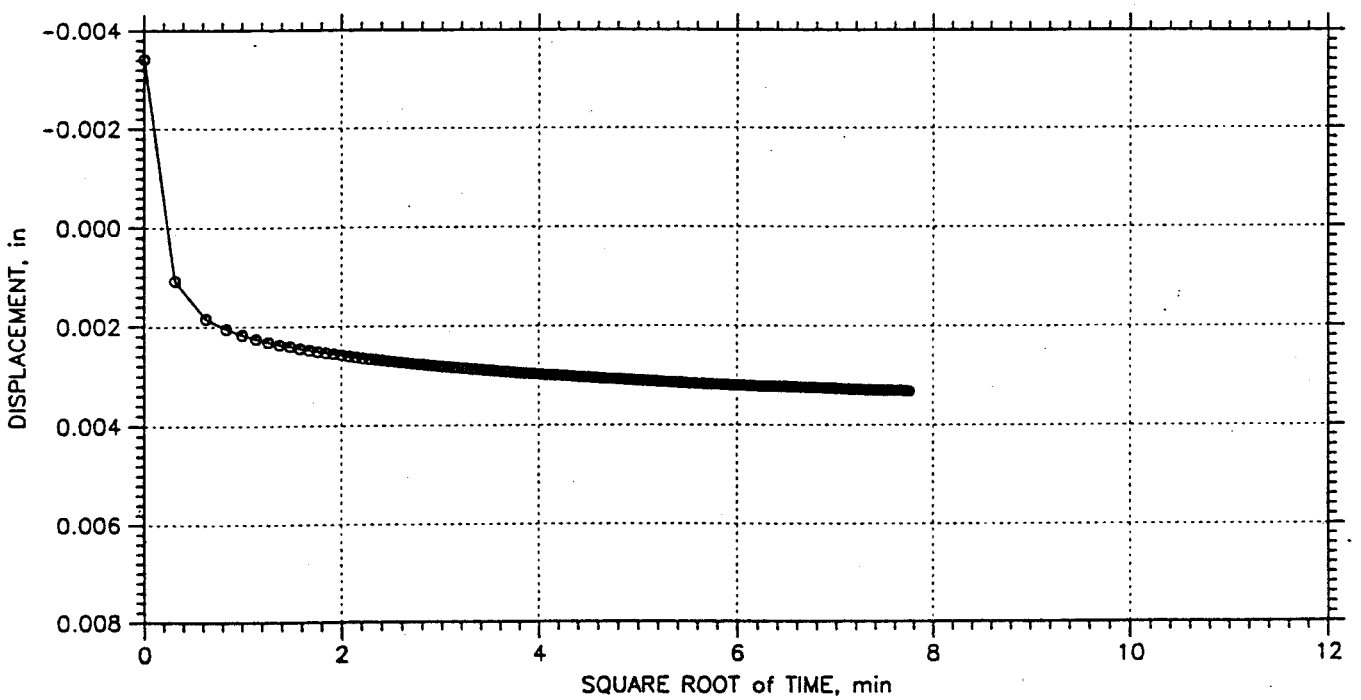
CONSOLIDATION TEST DATA

TIME CURVES

Step: 5 of 11

Stress: 2. tsf





Project: PHASE I GDR	Location: 11-SD-905	Project No.: 11-091801
Boring No.: 600-3	Tested By: GR	Checked By:
Sample No.: 600-3-1-II	Test Date: 6/21/00	Depth: 6.5'
Test No.: 00105-G2	Sample Type: 1.944	Elevation: ---
Description: MOIST HARD TAN & WHITE CLAY WITH SAND		
Remarks:		

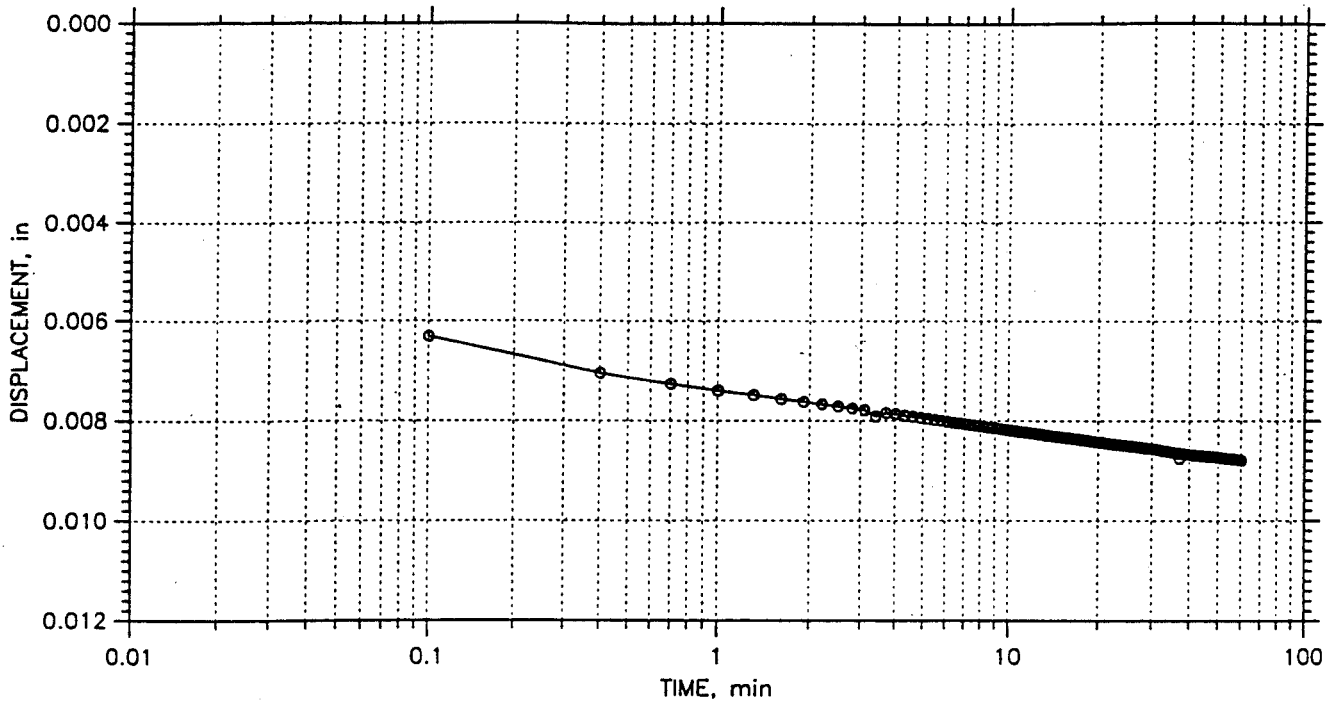
-JUN-2000 14:25:36

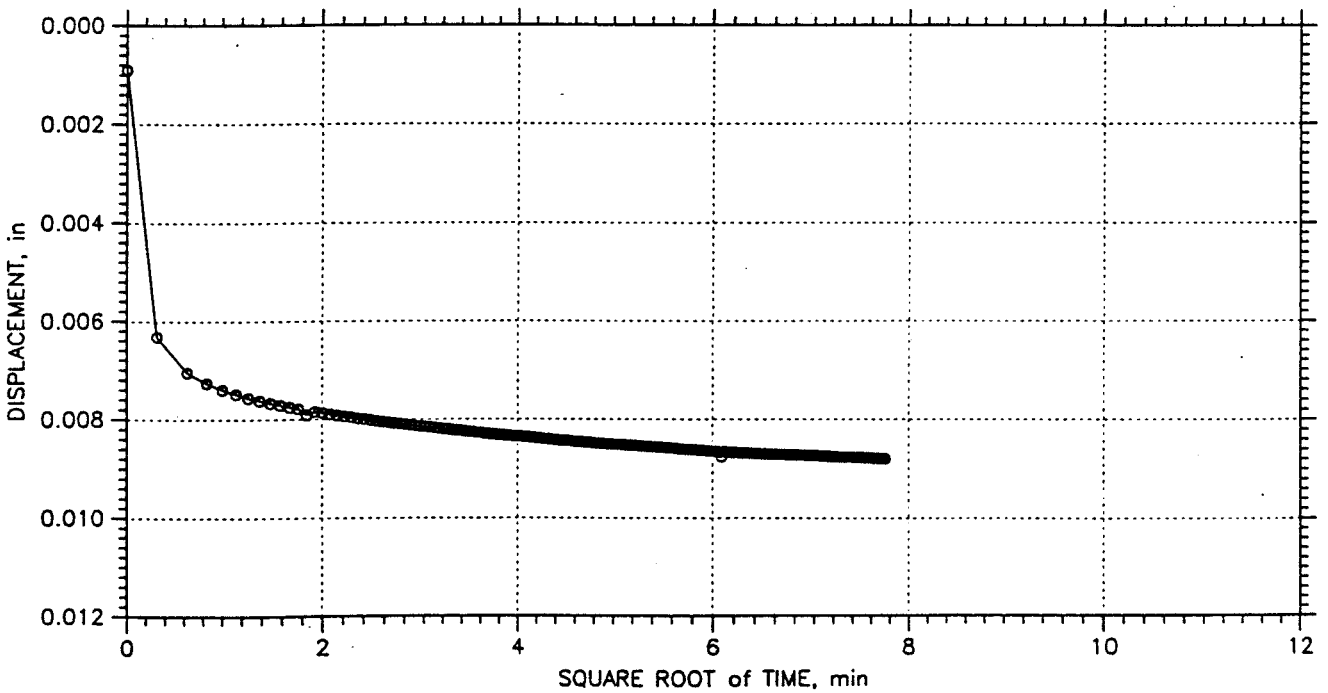
CONSOLIDATION TEST DATA

TIME CURVES

Step: 6 of 11

Stress: 4. tsf





Project: PHASE I GDR	Location: 11-SD-905	Project No.: 11-091801
Boring No.: 600-3	Tested By: GR	Checked By:
Sample No.: 600-3-1-II	Test Date: 6/21/00	Depth: 6.5'
Test No.: 00105-G2	Sample Type: 1.944	Elevation: ---
Description: MOIST HARD TAN & WHITE CLAY WITH SAND		
Remarks:		

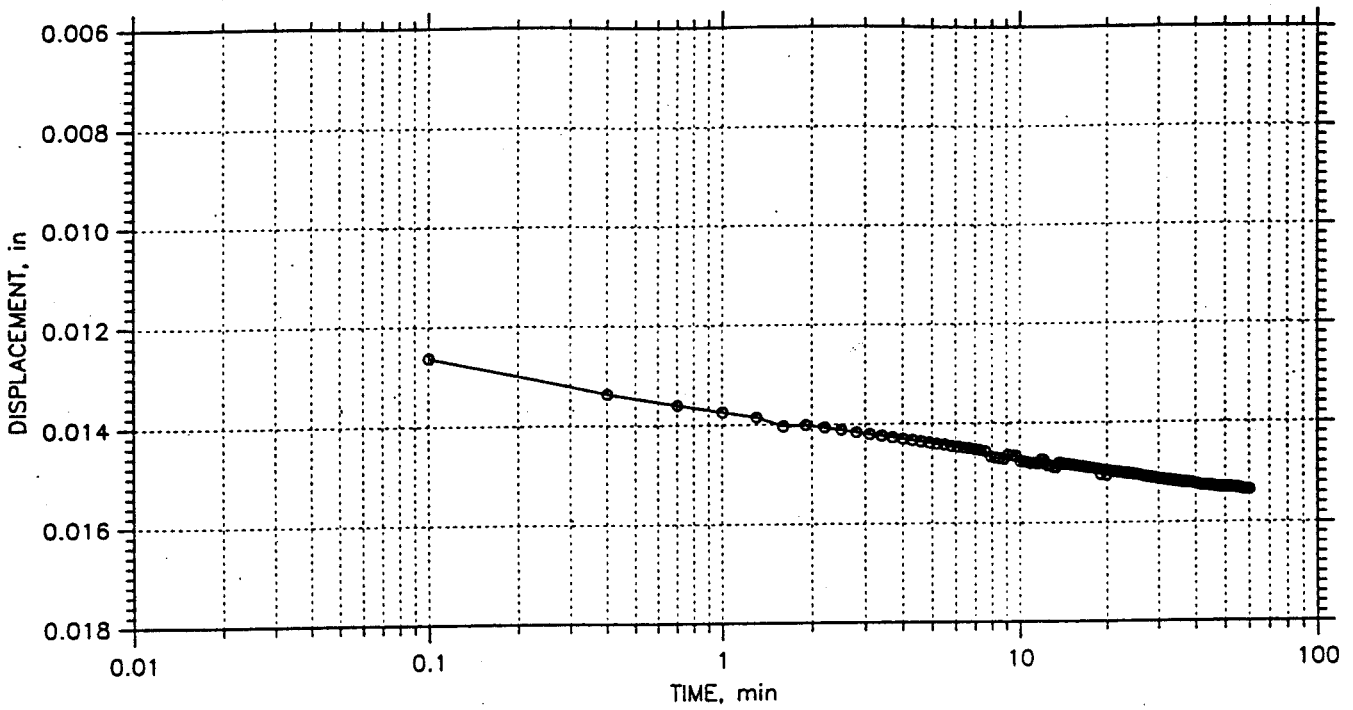
23-JUN-2000 14:25:38

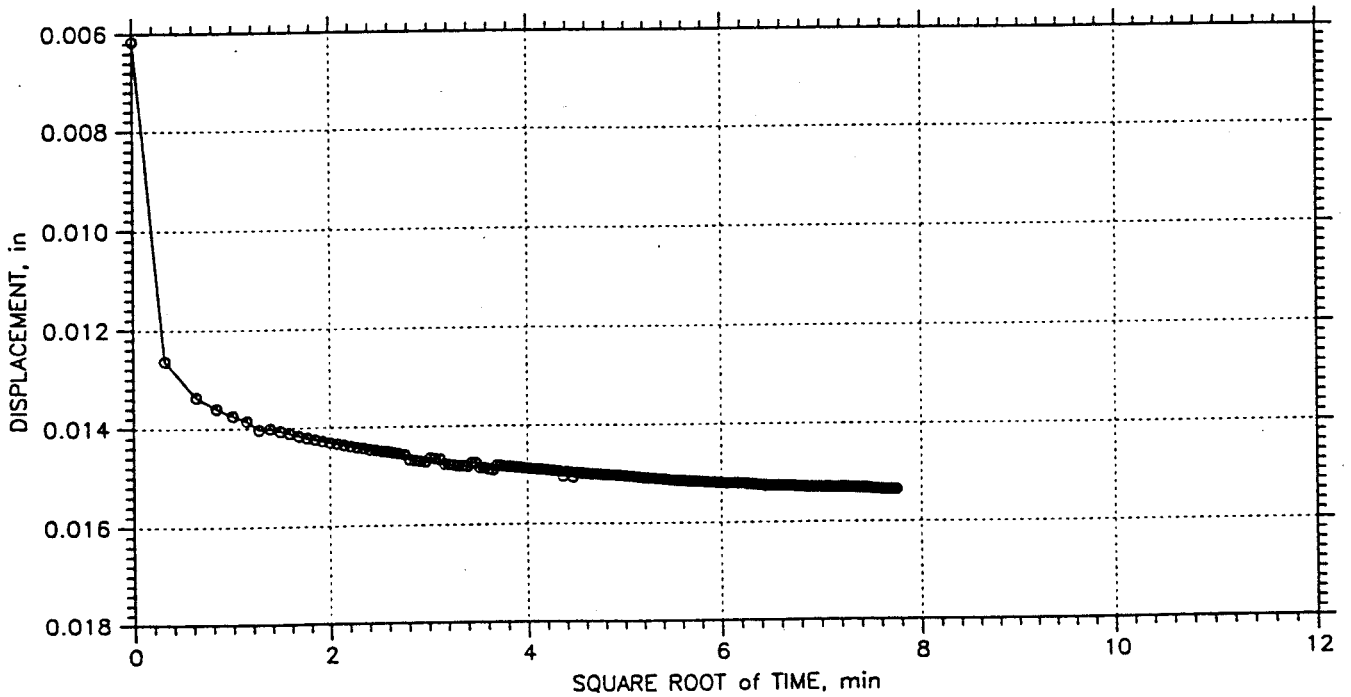
CONSOLIDATION TEST DATA

TIME CURVES

Step: 7 of 11

Stress: 8. tsf





Project: PHASE I GDR	Location: 11-SD-905	Project No.: 11-091801
Boring No.: 600-3	Tested By: GR	Checked By:
Sample No.: 600-3-1-II	Test Date: 6/21/00	Depth: 6.5'
Test No.: 00105-G2	Sample Type: 1.944	Elevation: ---
Description: MOIST HARD TAN & WHITE CLAY WITH SAND		
Remarks:		

CONSOLIDATION TEST DATA

Project: PHASE I GDR
Boring No.: 600-5
Sample No.: 600-5-1-II
Test No.: 00106-G3

Location: 11-SD-905
Tested By: GR
Test Date: 6/21/00
Sample Type: 1.944

Project No.: 11-091801
Checked By: LP 6/18 gjm 6/29
Depth: 6.5'
Elevation: ---

Soil Description: MOIST STIFF WHITE & TAN CLAY WITH SAND
Remarks:

Specific Gravity: 2.72
Initial Void Ratio: 0.96
Final Void Ratio: 0.83

Liquid Limit: 0
Plastic Limit: 0
Plasticity Index: 0

Initial Height: 0.75 in
Specimen Diameter: 1.94 in

	Before Consolidation		After Consolidation	
	Trimmings	Specimen+Ring	Specimen+Ring	Trimmings
Container ID		RING		
Wt. Container + Wet Soil, gm	91.4	91.4	91.1	91.1
Wt. Container + Dry Soil, gm	74.7	74.7	74.7	74.7
Wt. Container, gm	24	24	24	24
Wt. Dry Soil, gm	50.7	50.7	50.7	50.7
Water Content, %	32.94	32.94	32.35	32.35
Void Ratio	---	0.96	0.83	---
Degree of Saturation, %	---	93.47	105.81	---
Dry Unit Weight, pcf	---	86.765	92.785	---

CONSOLIDATION TEST DATA

Project: PHASE I GDR
Boring No.: 600-5
Sample No.: 600-5-1-II
Test No.: 00106-G3

Location: 11-SD-905
Tested By: GR
Test Date: 6/21/00
Sample Type: 1.944

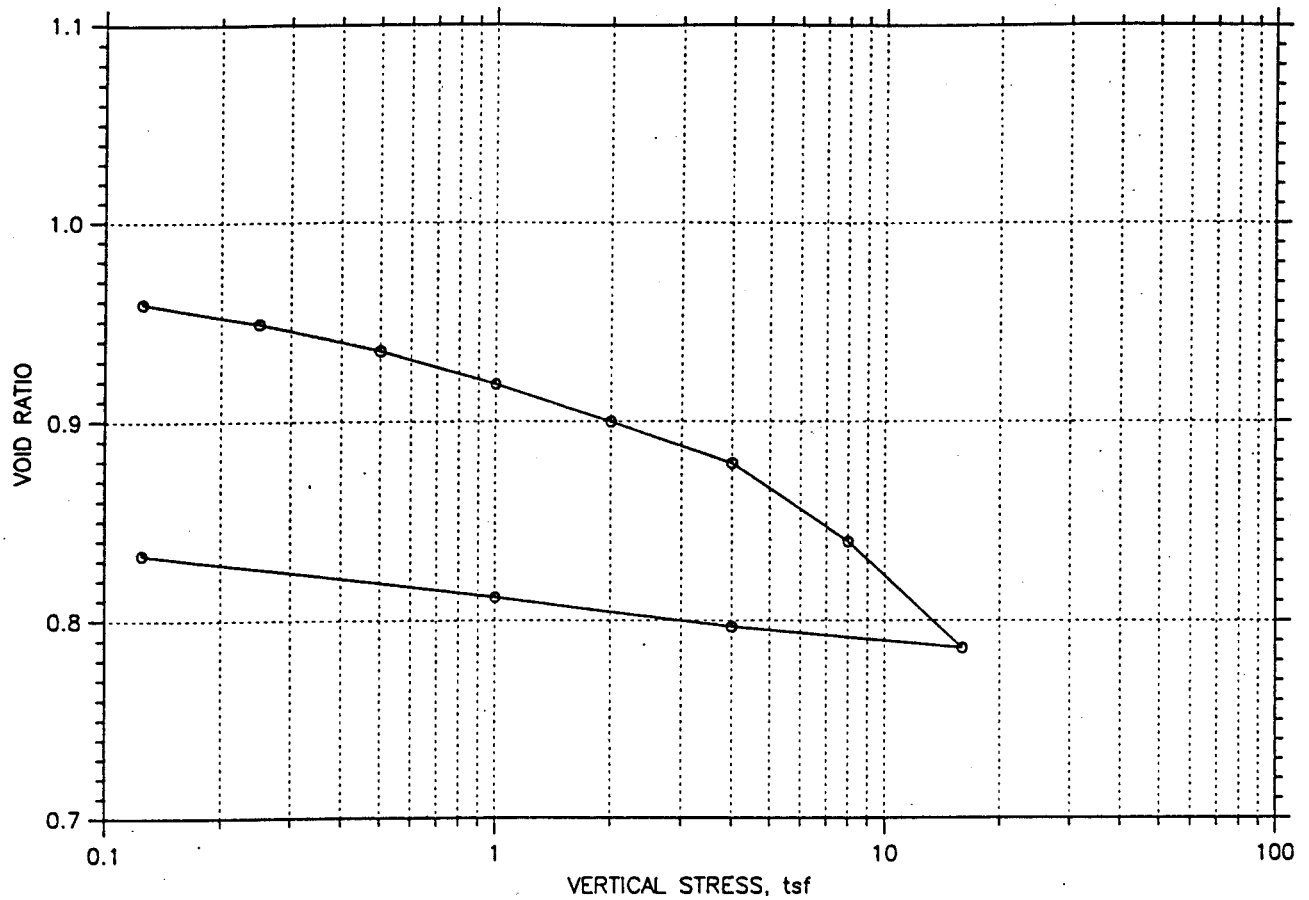
Project No.: 11-091801
Checked By:
Depth: 6.5'
Elevation: ---

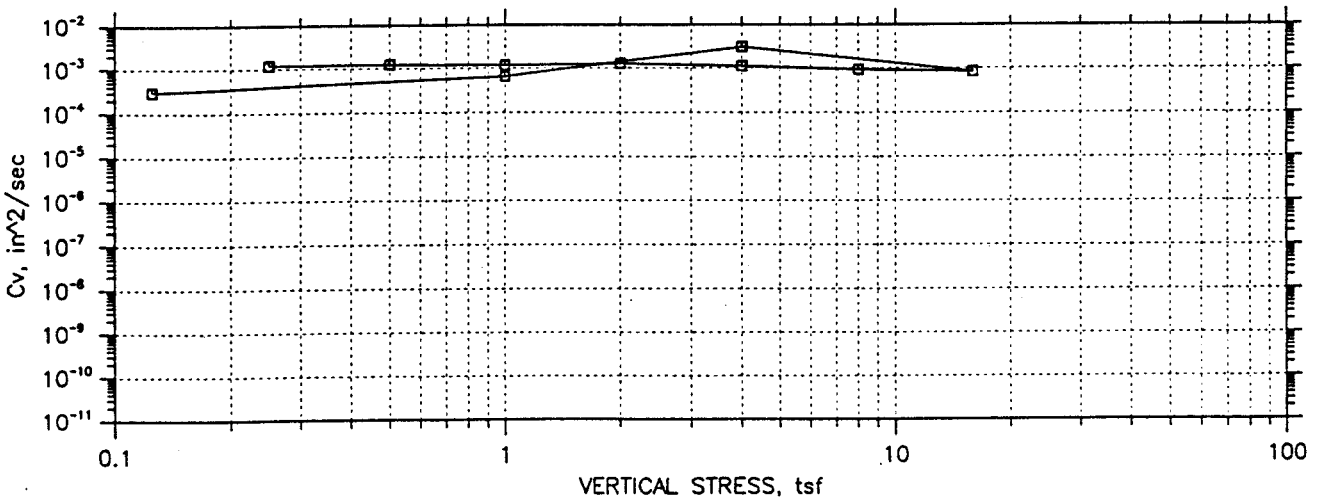
Soil Description: MOIST STIFF WHITE & TAN CLAY WITH SAND
Remarks:

	Applied Stress tsf	Final Displacement in	Void Ratio	Strain at End %	T50 Fitting Sq.Rt. min	T50 Fitting Log min	Coefficient of Consolidation Sq.Rt. in^2/sec	Coefficient of Consolidation Log in^2/sec	Coefficient of Consolidation Ave. in^2/sec
1	0.125	0.0004731	0.959	0.06	0.0	0.0	0.00e+000	0.00e+000	0.00e+000
2	0.25	0.004263	0.949	0.57	0.4	0.0	1.18e-003	0.00e+000	1.18e-003
3	0.5	0.009467	0.935	1.26	0.4	0.0	1.23e-003	0.00e+000	1.23e-003
4	1	0.01577	0.919	2.10	0.4	0.0	1.17e-003	0.00e+000	1.17e-003
5	2	0.02304	0.900	3.07	0.3	0.0	1.26e-003	0.00e+000	1.26e-003
6	4	0.03111	0.879	4.15	0.4	0.0	1.10e-003	0.00e+000	1.10e-003
7	8	0.04613	0.839	6.15	0.5	0.0	9.18e-004	0.00e+000	9.18e-004
8	16	0.06655	0.786	8.87	0.5	0.0	8.25e-004	0.00e+000	8.25e-004
9	4	0.06248	0.797	8.33	0.1	0.0	3.08e-003	0.00e+000	3.08e-003
10	1	0.05685	0.811	7.58	0.6	0.0	6.43e-004	0.00e+000	6.43e-004
11	0.125	0.04866	0.833	6.49	1.3	0.0	3.03e-004	0.00e+000	3.03e-004

CONSOLIDATION TEST DATA

SUMMARY REPORT





Project: PHASE I GDR	Location: 11-SD-905	Project No.: 11-091801
Boring No.: 600-5	Tested By: GR	Checked By:
Sample No.: 600-5-1-II	Test Date: 6/21/00	Depth: 6.5'
Test No.: 00106-G3	Sample Type: 1.944	Elevation: ---
Description: MOIST STIFF WHITE & TAN CLAY WITH SAND		
Remarks:		

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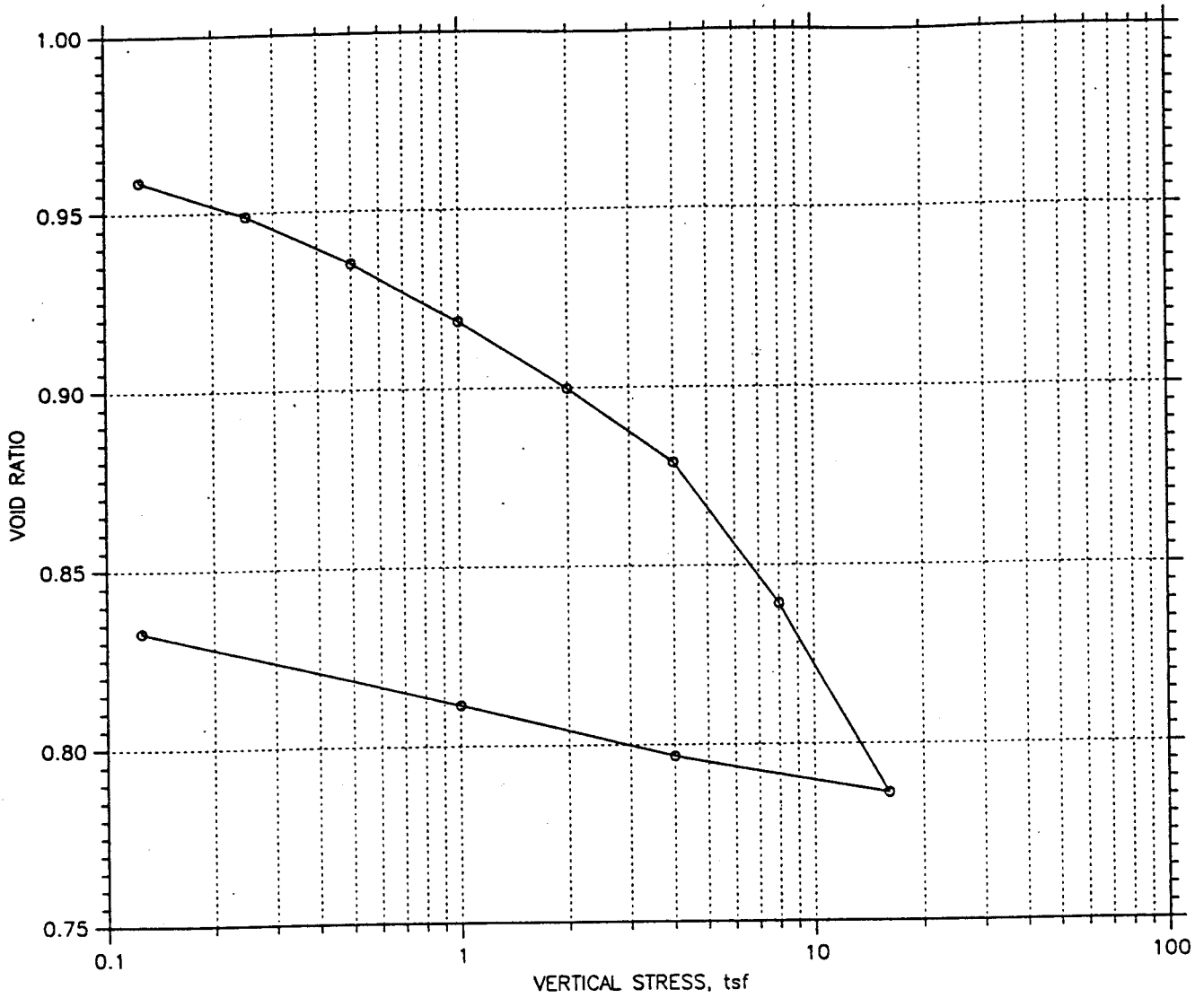
CONSOLIDATION TEST DATA

SUMMARY REPORT



					Before Test	After Test
Overburden Pressure, tsf:				Water Content, %	32.94	32.35
Preconsolidation Pressure, tsf:				Dry Unit Weight, pcf	86.765	92.785
Compression Index:				Saturation, %	93.47	105.81
Diameter: 1.944 in		Height: 0.75 in		Void Ratio	0.96	0.83
LL: 0	PL: 0	PI: 0	GS: 2.72			

Project: PHASE I GDR	Location: 11-SD-905	Project No.: 11-091801
Boring No.: 600-5	Tested By: GR	Checked By:
Sample No.: 600-5-1-II	Test Date: 6/21/00	Depth: 6.5'
Test No.: 00106-G3	Sample Type: 1.944	Elevation: ---
Description: MOIST STIFF WHITE & TAN CLAY WITH SAND		
Remarks:		

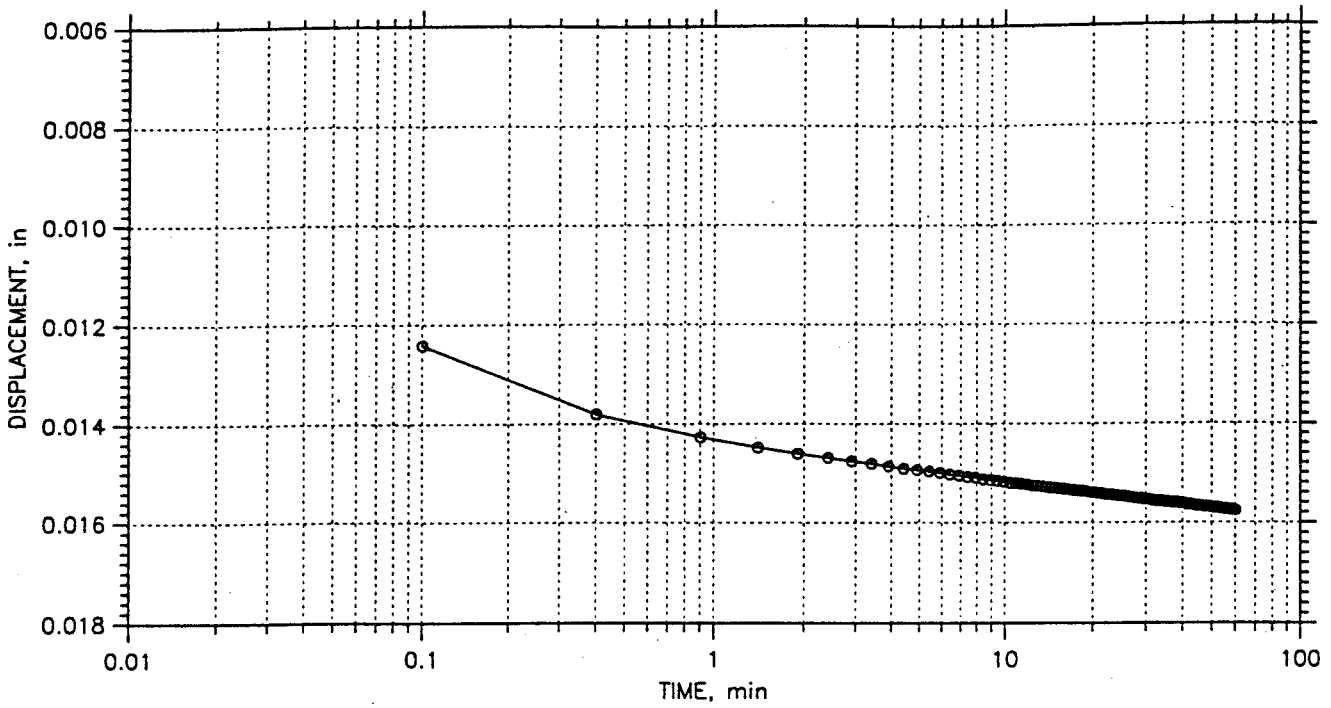
27-JUN-2000 14:16:42

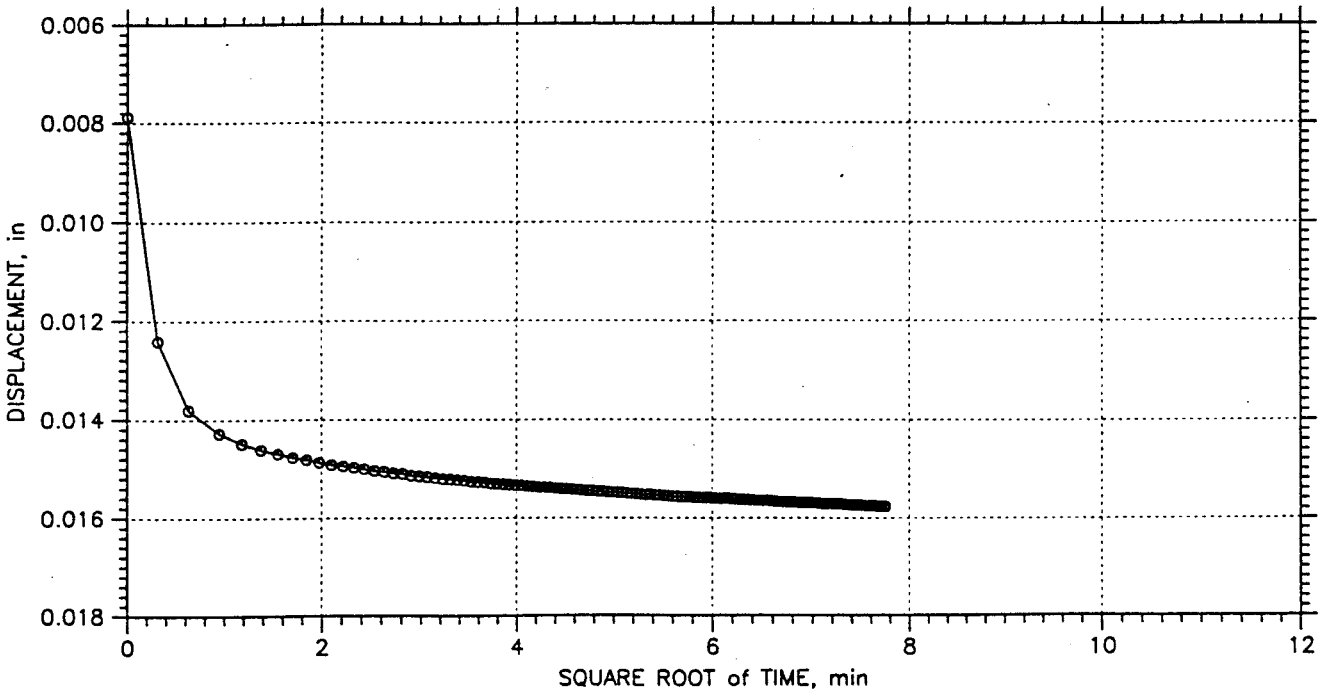
CONSOLIDATION TEST DATA

TIME CURVES

Step: 4 of 11

Stress: 1. tsf





Project: PHASE I GDR	Location: 11-SD-905	Project No.: 11-091801
Boring No.: 600-5	Tested By: GR	Checked By:
Sample No.: 600-5-1-II	Test Date: 6/21/00	Depth: 6.5'
Test No.: 00106-G3	Sample Type: 1.944	Elevation: ---
Description: MOIST STIFF WHITE & TAN CLAY WITH SAND		
Remarks:		

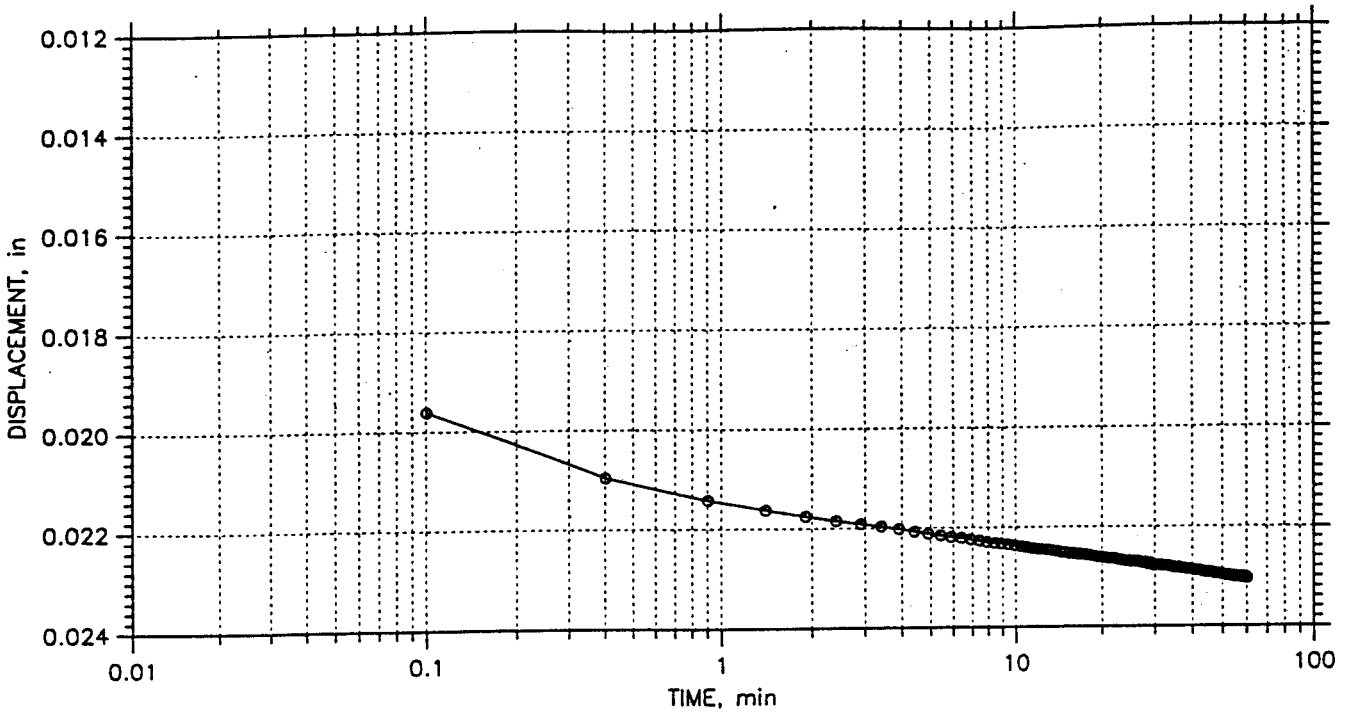
27-JUN-2000 14:17:04

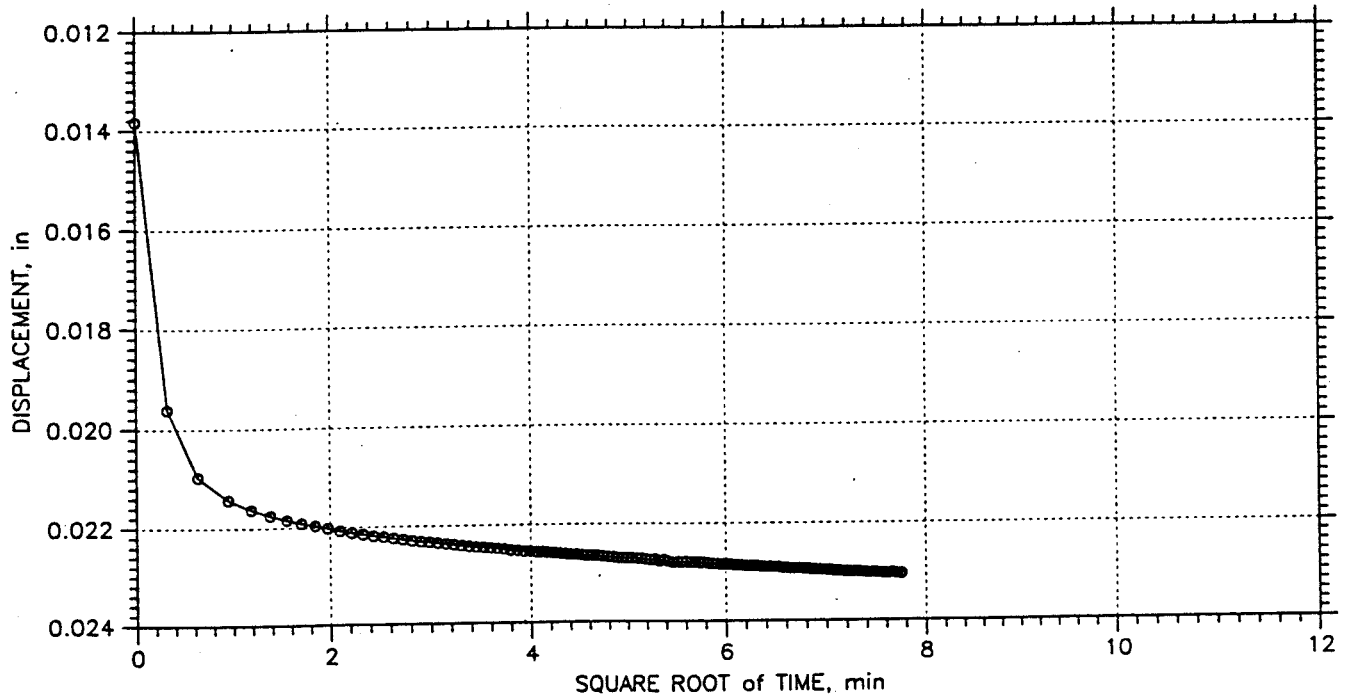
CONSOLIDATION TEST DATA

TIME CURVES

Step: 5 of 11

Stress: 2. tsf





Project: PHASE I GDR	Location: 11-SD-905	Project No.: 11-091801
Boring No.: 600-5	Tested By: GR	Checked By:
Sample No.: 600-5-1-II	Test Date: 6/21/00	Depth: 6.5'
Test No.: 00106-G3	Sample Type: 1.944	Elevation: ---
Description: MOIST STIFF WHITE & TAN CLAY WITH SAND		
Remarks:		

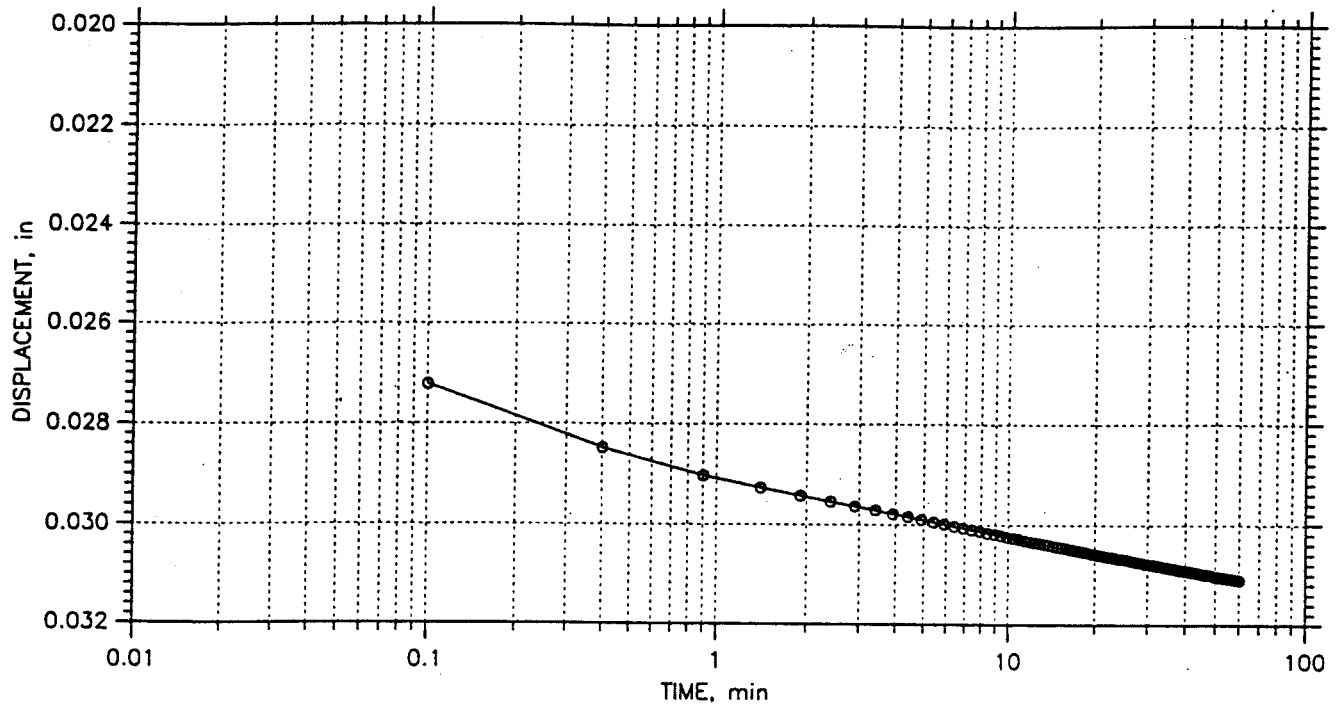
27-JUN-2000 14:17:06

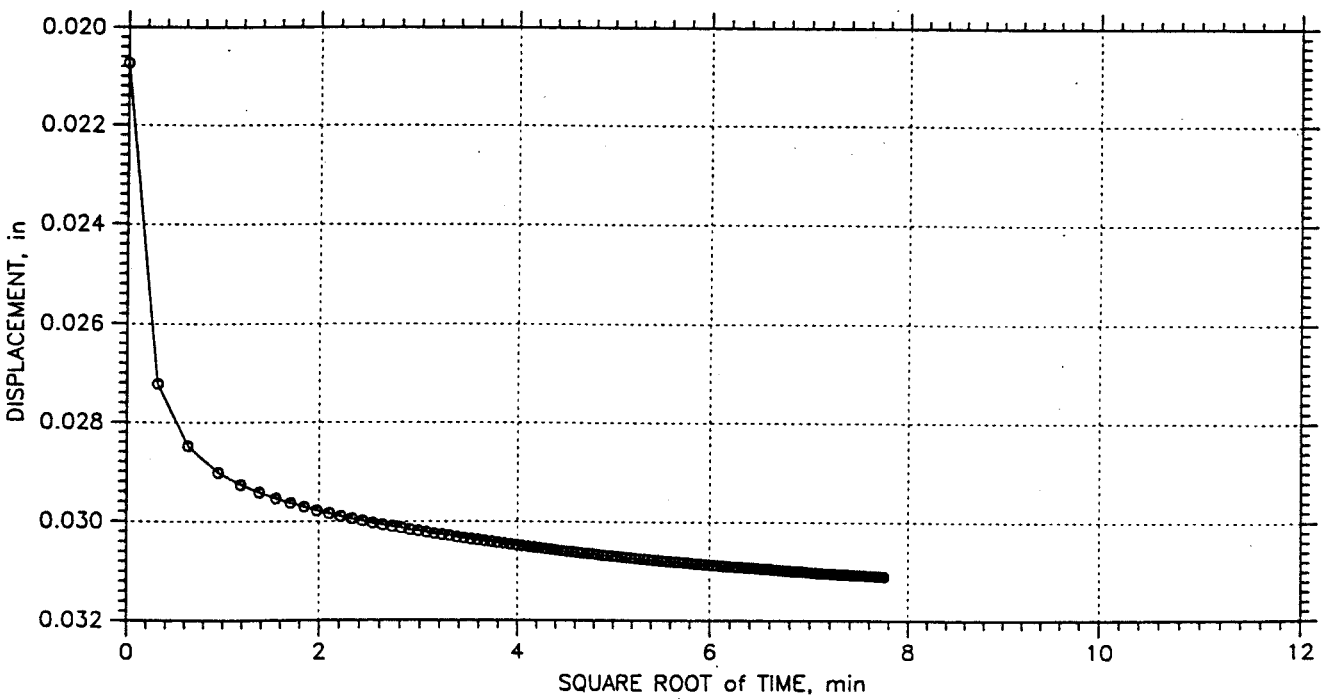
CONSOLIDATION TEST DATA

TIME CURVES

Step: 6 of 11

Stress: 4. tsf





Project: PHASE I GDR	Location: 11-SD-905	Project No.: 11-091801
Boring No.: 600-5	Tested By: GR	Checked By:
Sample No.: 600-5-1-II	Test Date: 6/21/00	Depth: 6.5'
Test No.: 00106-G3	Sample Type: 1.944	Elevation: ---
Description: MOIST STIFF WHITE & TAN CLAY WITH SAND		
Remarks:		

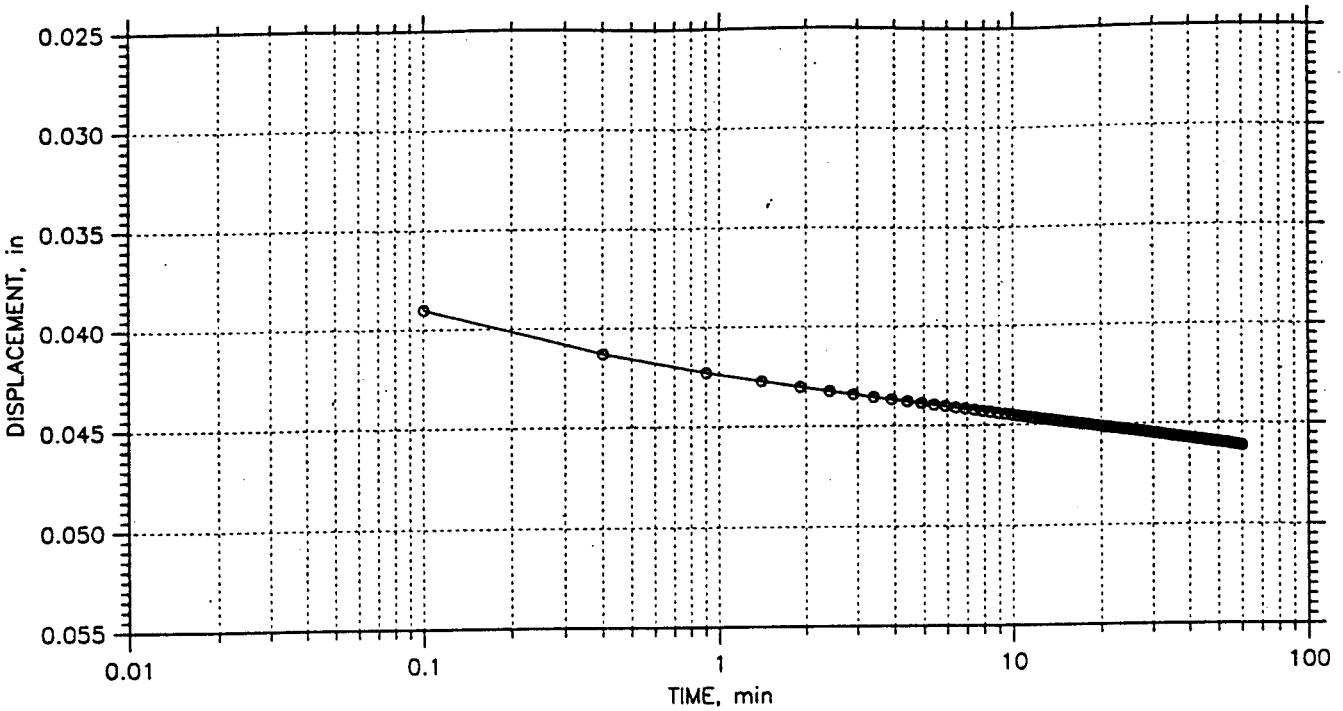
27-JUN-2000 14:17:07

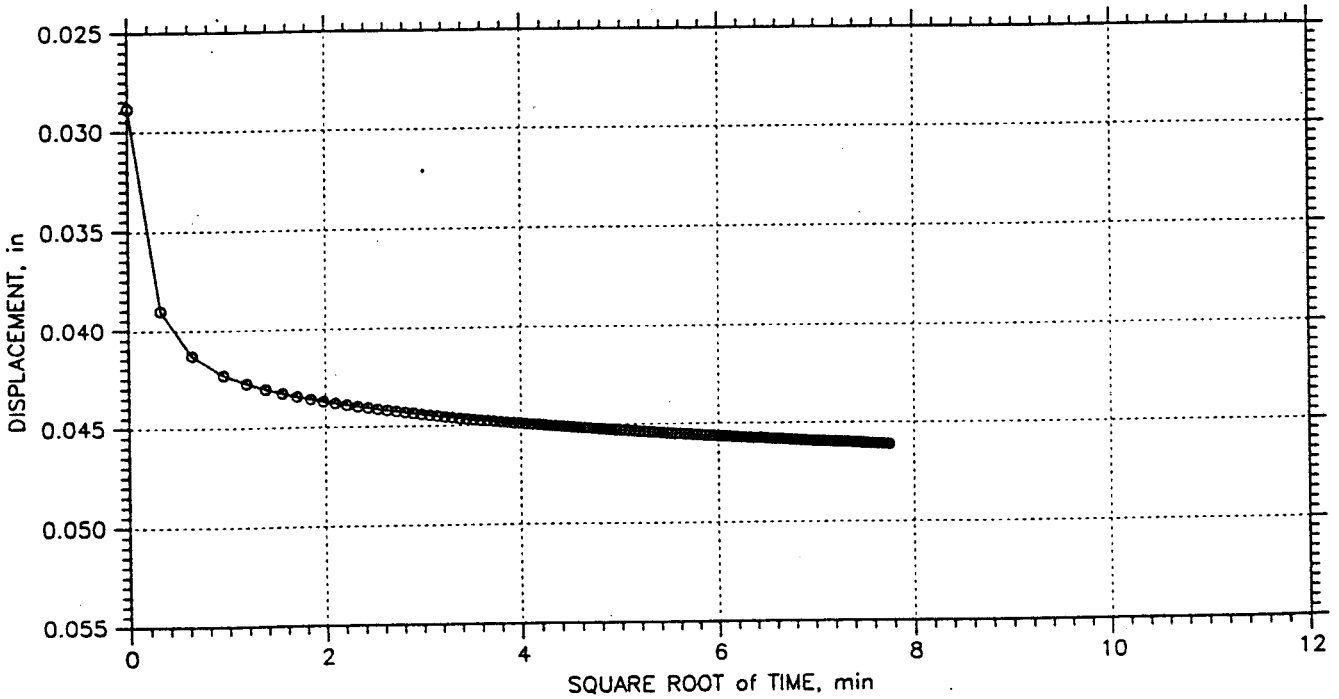
CONSOLIDATION TEST DATA

TIME CURVES

Step: 7 of 11

Stress: 8. tsf





Project: PHASE I GDR	Location: 11-SD-905	Project No.: 11-091801
Boring No.: 600-5	Tested By: GR	Checked By:
Sample No.: 600-5-1-II	Test Date: 6/21/00	Depth: 6.5'
Test No.: 00106-G3	Sample Type: 1.944	Elevation: ---
Description: MOIST STIFF WHITE & TAN CLAY WITH SAND		
Remarks:		