

# Consolidation Test Data Sheet

Consolidometer ID: 5

11/21/06

REVISED FORM FOR  
NCR NO. 25237-NCR-028  
2/12/2007

Schnabel Contract: 06120048

Project: Calvert Cliffs Nuclear Power Plant

Test Method: ASTM D2435 Method A

Test Condition: Inundated @ 4 tsf

Initial Height of Specimen ( $H_0$ ), in.: 0.7512

Boring No.: B-401

Height of Solids ( $H_s$ ), in.: 0.2201

Depth: 243.5-244.4 ft

Seating Press. (tsf): 0.05

Initial Dial Gauge Reading ( $D_0$ ), in.: 0.0000

Reviewed by: CJS

Pressure, P (tsf)	Time Readings Required	Date Load Applied	Time Load Applied	Load Applied By	A	B	C	D	Vertical Strain <sup>5</sup> , $\epsilon_i$ (%)	Void Ratio <sup>6</sup> , $e_i$
					Final <sup>1</sup> Dial Reading, $D_f$ $\times 10^{-4}$ in.	Apparatus Correction <sup>2</sup> , $D_{ci}$ $\times 10^{-4}$ in.	Cumulative Change in Height <sup>3</sup> , $\Delta H_i$ in.	Height of Voids <sup>4</sup> , $H_{vi}$ in.		
0.5		10/24/2006	9:20	DWC	19	12	0.0007	0.5304	0.09	2.410
1		10/25/2006	9:20	DWC	34	21	0.0013	0.5298	0.17	2.407
2		10/26/2006	9:20	DWC	61	33	0.0028	0.5283	0.37	2.400
4		10/27/2006	9:20	DWC	105	40	0.0065	0.5246	0.87	2.383
8		10/28/2006	9:20	CJS	167	50	0.0117	0.5194	1.56	2.360
4		10/30/2006	9:20	DWC	150	40	0.0110	0.5201	1.46	2.363
2		10/31/2006	9:20	DWC	127	33	0.0094	0.5217	1.25	2.370
4		11/1/2006	9:20	DWC	143	40	0.0103	0.5208	1.37	2.366
8		11/2/2006	9:20	DWC	175	50	0.0125	0.5186	1.66	2.356
16		11/3/2006	9:20	DWC	284	63	0.0221	0.5090	2.94	2.312
32		11/4/2006	9:20	CJS	1267	76	0.1191	0.4120	15.86	1.872
64		11/6/2006	9:20	DWC	2452	87	0.2365	0.2946	31.48	1.338
16		11/7/2006	9:20	DWC	2330	63	0.2267	0.3044	30.18	1.383
4		11/8/2006	9:20	DWC	2156	40	0.2116	0.3195	28.17	1.451
0.5		11/9/2006	9:20	DWC	1860	12	0.1848	0.3463	24.60	1.573

- Notes:
- 1 "Final" based on test method; 24 hrs for Method A, end of primary for Method B.
  - 2 Correction value, for the current pressure, from the consolidometer's calibration curve.
  - 3  $\Delta H = D_f - D_0 - D_{ci} = \text{Col. A} - D_0 - \text{Col. B}$
  - 4  $H_{vi} = (H_0 - H_i) - \Delta H$
  - 5  $\epsilon_i = (\Delta H / H_0) \times 100 = (\text{Col. C} / H_0) \times 100$
  - 6  $e_i = H_{vi} / H_s = \text{Col. D} / H_s$



# Load Time Readings

11/21/06

Project: Calvert Cliffs Nuclear Power Plant  
 Schnabel Contract: 06120048  
 Boring No.: B-401      Depth: 243.5-244.4 ft

Consol. ID: 5

Reviewed by: CJS

Elapsed Time (min.)	Dial Guage Readings (inches)					
	4 tsf Reload	32 tsf Load	X tsf Load	X tsf Load	X tsf Load	X tsf Load
	11/1/2006	11/4/2006	Date	Date	Date	Date
0.1	0.0139	0.0408				
0.25	0.0139	0.0454				
0.5	0.0140	0.0492				
1	0.0140	0.0539				
2	0.0140	0.0589				
4	0.0140	0.0650				
8	0.0140	0.0711				
15	0.0140	0.0776				
30	0.0140	0.0850				
60	0.0141	0.0925				
120	0.0142	0.1003				
240	0.0142	0.1080				
480	0.0143	0.1155				
720	0.0143	0.1197				
960	0.0143	0.1227				
1200	0.0143	0.1249				
1440	0.0143	0.1267				
1680		0.1283				
1920		0.1296				
2160		0.1308				
2400		0.1318				
2640		0.1328				
2880		0.1341				

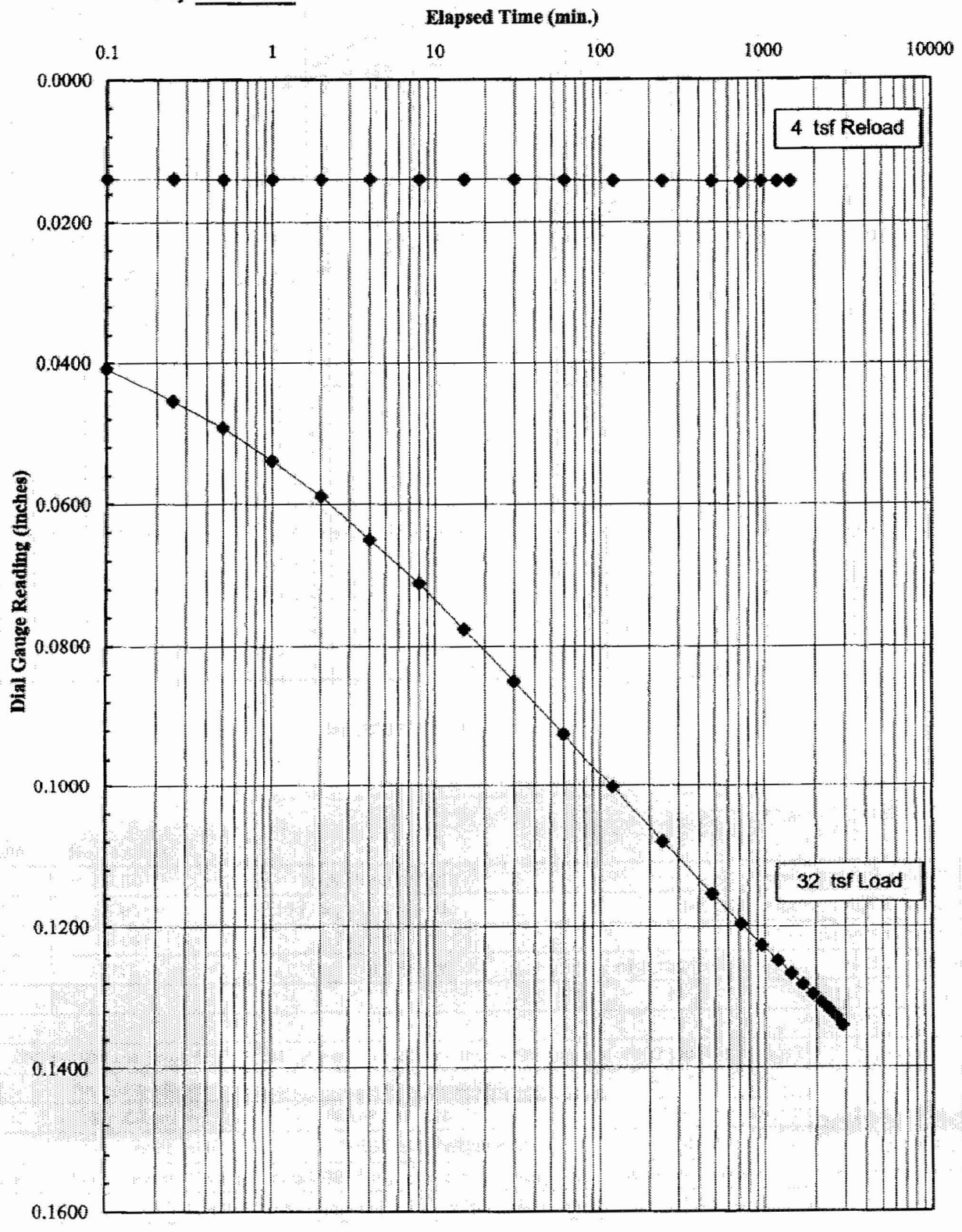


# Consolidation Time Curves

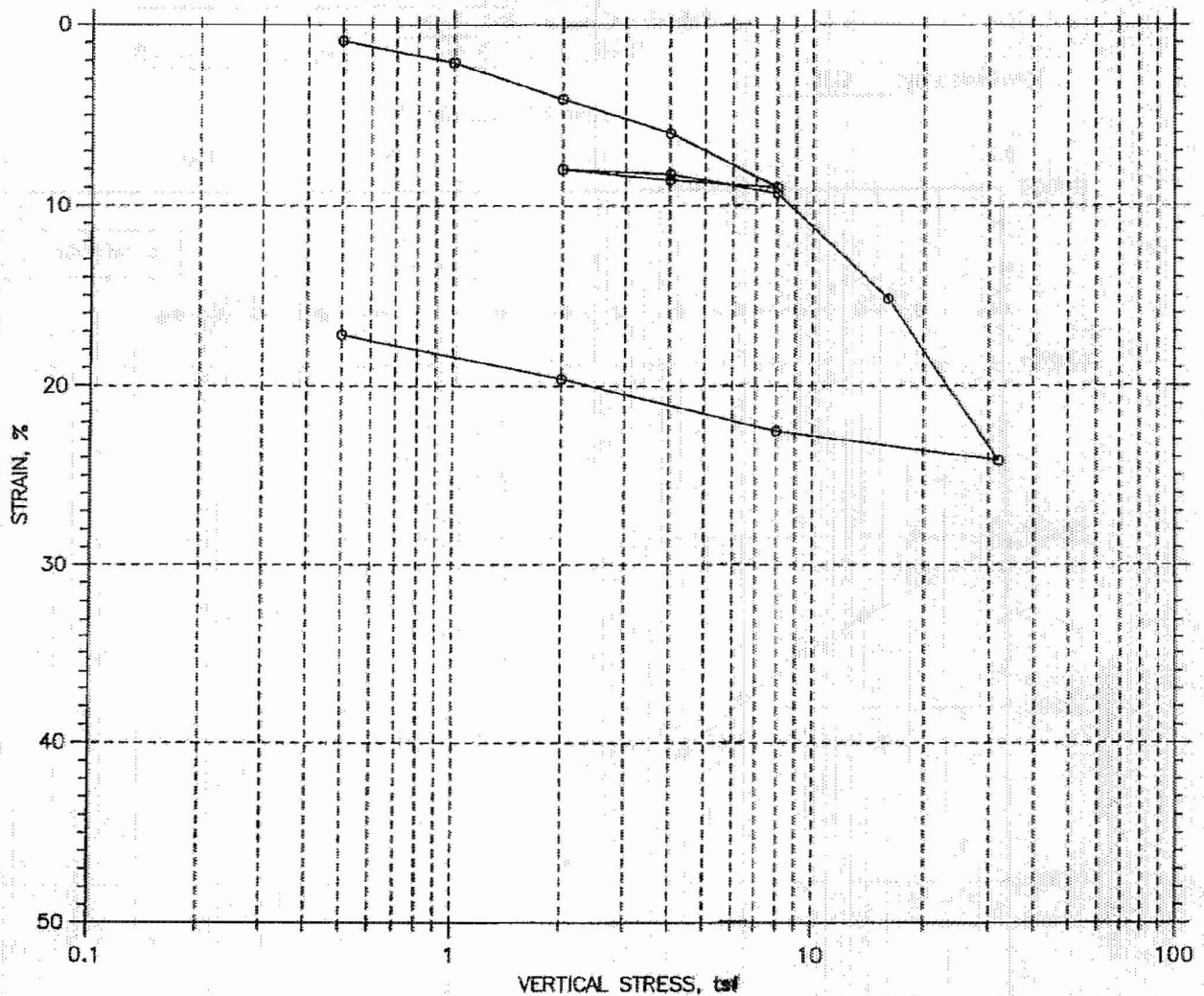
11/21/06

Project: Calvert Cliffs Nuclear Power Plant  
Schnabel Contract: 06120048  
Boring No.: B-401      Depth: 243.5-244.4 ft

Reviewed by: CJS



## CONSOLIDATION TEST DATA SUMMARY REPORT



				Before Test	After Test
Overburden Pressure: ---				38.93	29.19
Preconsolidation Pressure: 10.5 tsf				78.72	95.04
Compression Index: ---				90.94	99.99
Diameter: 2.5 in		Height: 1 in		1.17	0.80
LL: 63	PL: 19	Pi: 44	GS: 2.74		

<b>GeoTesting</b> express <small>a subsidiary of Geocomp Corporation</small>	Project: Calvert Cliffs Nuclear PP	Location: Calvert County, MD	Project No.: GTX-6880
	Boring No.: B-406	Tested By: njh	Checked By: jdt
	Sample No.: S-16	Test Date: 10/14/06	Depth: 63.5-65.5
	Test No.: C-50	Sample Type: tube	Elevation: ---
	Description: Moist, very dark gray organic clay (OH), 90% passing #200 sieve, inundated @ 0.5 tsf		
	Remarks: System G - Compression Ratio: 0.30, Recompression Ratio: 0.04		

CONSOLIDATION TEST DATA

Project: Calvert Cliffs Nuclear PP  
 Boring No.: B-406  
 Sample No.: S-16  
 Test No.: C-50

Location: Calvert County, MD  
 Tested By: njh  
 Test Date: 10/14/06  
 Sample Type: tube

Project No.: GTX-6880  
 Checked By: jdt  
 Depth: 63.5-65.5  
 Elevation: ---

Soil Description: Moist, very dark gray organic clay (OH), 90% passing #200 sieve, inundated @ 0.5 tsf  
 Remarks: System G - Compression Ratio: 0.30, Recompression Ratio: 0.04

Measured Specific Gravity: 2.74  
 Initial Void Ratio: 1.17  
 Final Void Ratio: 0.80

Liquid Limit: 63  
 Plastic Limit: 19  
 Plasticity Index: 44

Initial Height: 1.00 in  
 Specimen Diameter: 2.50 in

Container ID	Before Consolidation		After Consolidation	
	Trimings	Specimen+Ring	Specimen+Ring	Trimings
	lidle	RING		1093
Wt. Container + Wet Soil, gm	54.57	357.42	347.54	140.39
Wt. Container + Dry Soil, gm	42.28	317.93	317.93	110.51
Wt. Container, gm	8.13	216.5	216.5	8.14
Wt. Dry Soil, gm	34.15	101.43	101.43	102.37
Water Content, %	35.99	36.93	29.19	29.19
Void Ratio	---	1.17	0.80	---
Degree of Saturation, %	---	90.94	99.99	---
Dry Unit Weight, pcf	---	78.721	95.04	---

CONSOLIDATION TEST DATA

Project: Calvert Cliffs Nuclear PP  
 Boring No.: B-406  
 Sample No.: S-16  
 Test No.: C-50

Location: Calvert County, MD  
 Tested By: njh  
 Test Date: 10/14/06  
 Sample Type: tube

Project No.: GTX-6880  
 Checked By: jdt  
 Depth: 63.5-65.5  
 Elevation: ---

Soil Description: Moist, very dark gray organic clay (OH), 90% passing #200 sieve, inundated @ 0.5 tsf  
 Remarks: System G - Compression Ratio: 0.30, Recompression Ratio: 0.04

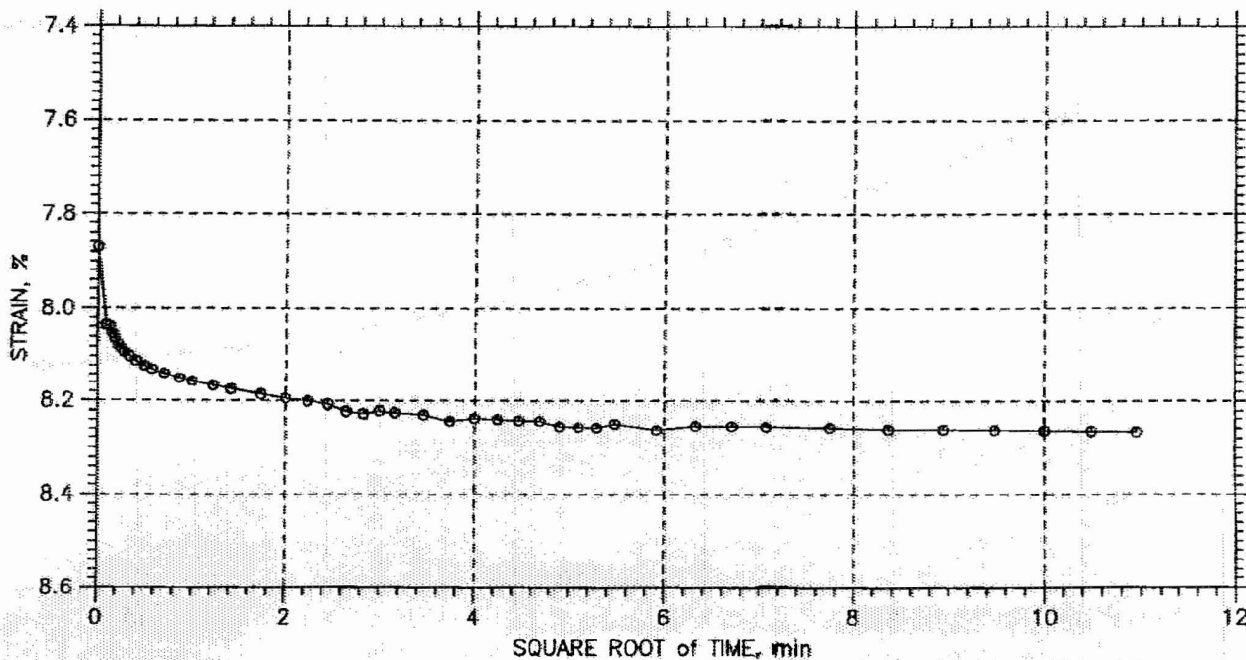
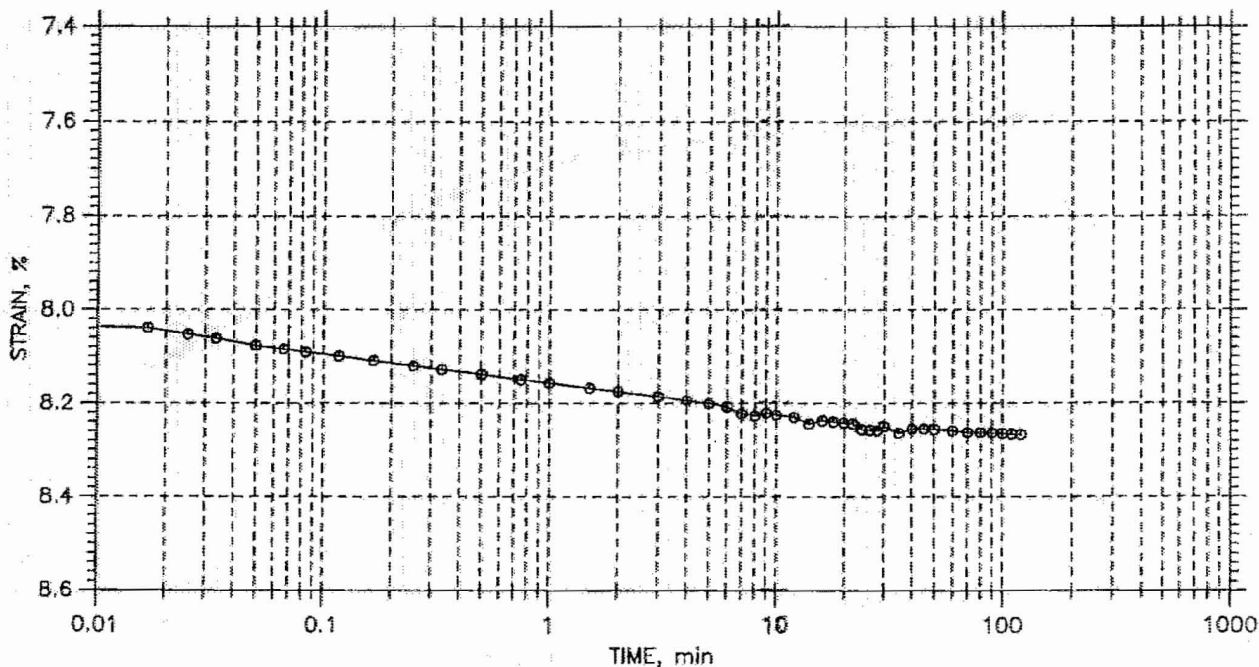
	Applied Stress tsf	Final Displacement in	Void Ratio	Strain at End %	T50 Fitting		Coefficient of Consolidation		
					Sq. Rt. min	Log min	Sq. Rt. in <sup>2</sup> /sec	Log in <sup>2</sup> /sec	Ave. in <sup>2</sup> /sec
1	0.5	0.008888	1.154	0.89	0.0	0.0	2.69e-002	0.00e+000	2.69e-002
2	1	0.02098	1.127	2.10	1.2	0.0	6.48e-004	0.00e+000	6.48e-004
3	2	0.04106	1.084	4.11	0.1	0.0	1.09e-002	2.54e-002	1.53e-002
4	4	0.05991	1.043	5.99	0.3	0.0	2.42e-003	0.00e+000	2.42e-003
5	8	0.08987	0.978	8.99	1.6	0.0	4.49e-004	0.00e+000	4.49e-004
6	4	0.08599	0.986	8.60	0.3	0.0	2.22e-003	0.00e+000	2.22e-003
7	2	0.08009	0.999	8.01	1.8	0.0	3.76e-004	0.00e+000	3.76e-004
8	4	0.08267	0.993	8.27	0.2	0.0	4.56e-003	0.00e+000	4.56e-003
9	8	0.09308	0.971	9.31	1.5	0.0	4.69e-004	0.00e+000	4.69e-004
10	16	0.1517	0.843	15.17	7.4	11.0	8.60e-005	5.74e-005	6.88e-005
11	32	0.2415	0.648	24.15	21.1	22.9	2.52e-005	2.32e-005	2.42e-005
12	8	0.2251	0.684	22.51	3.3	0.0	1.45e-004	0.00e+000	1.45e-004
13	2	0.1962	0.747	19.62	39.6	0.0	1.29e-005	0.00e+000	1.29e-005
14	0.5	0.1717	0.800	17.17	59.8	0.0	9.16e-006	0.00e+000	9.16e-006

# CONSOLIDATION TEST DATA

## TIME CURVES

Constant Load Step: 8 of 14

Stress: 4. tsf



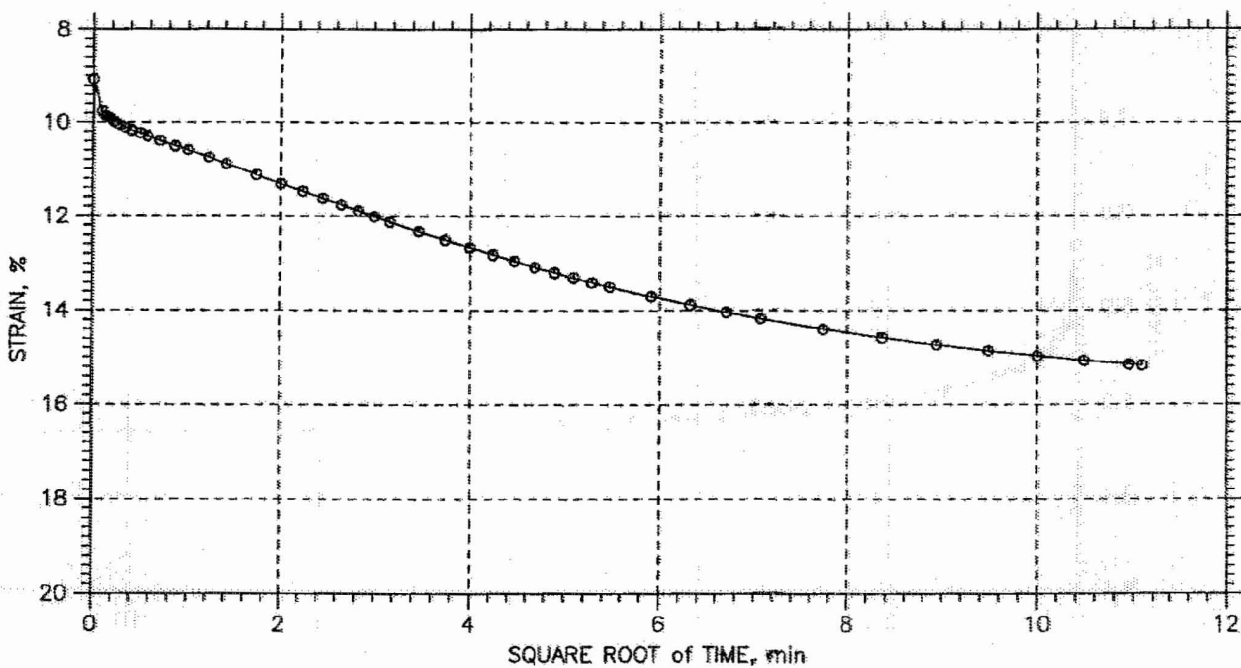
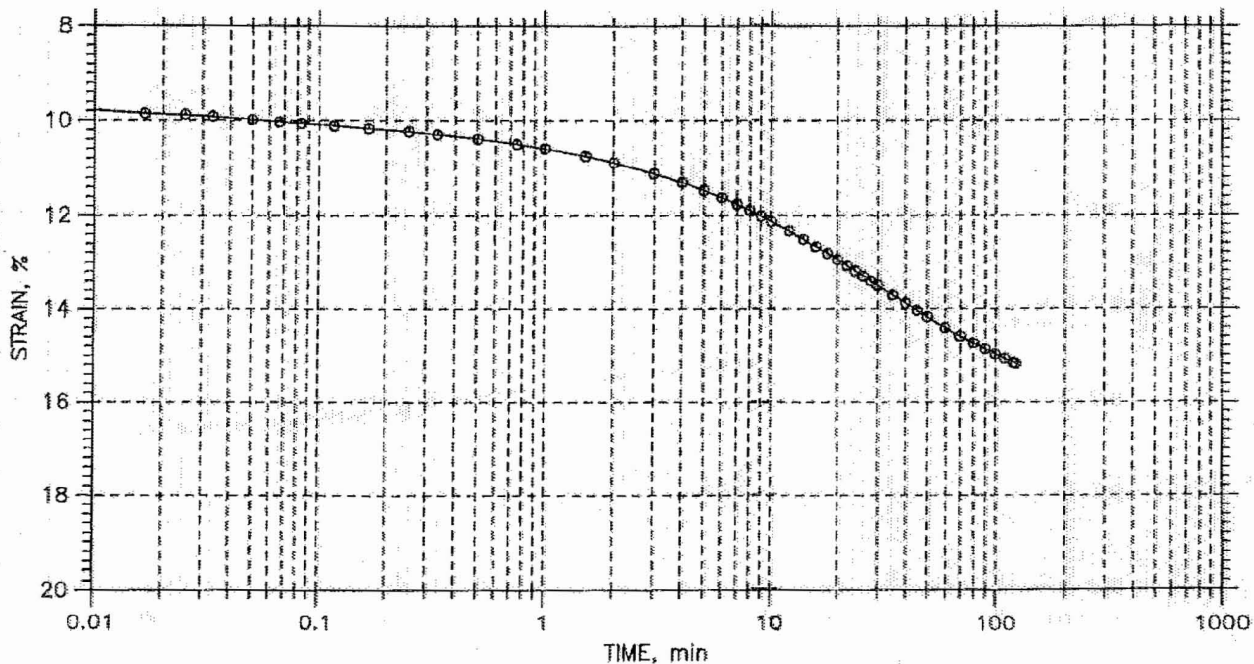
<b>GeoTesting</b> <b>express</b> <small>a subsidiary of Geocomp Corporation</small>	Project: Calvert Cliffs Nuclear PP	Location: Calvert County, MD	Project No.: GTX-6880
	Boring No.: B-406	Tested By: njh	Checked By: jdt
	Sample No.: S-16	Test Date: 10/14/66	Depth: 63.5-65.5
	Test No.: C-50	Sample Type: tube	Elevation: ---
	Description: Moist, very dark gray organic clay (OH), 90% passing #200 sieve, inundated @ 0.5 tsf		
Remarks: System G - Compression Ratio: 0.30, Recompression Ratio: 0.04			

# CONSOLIDATION TEST DATA

## TIME CURVES

Constant Load Step: 10 of 14

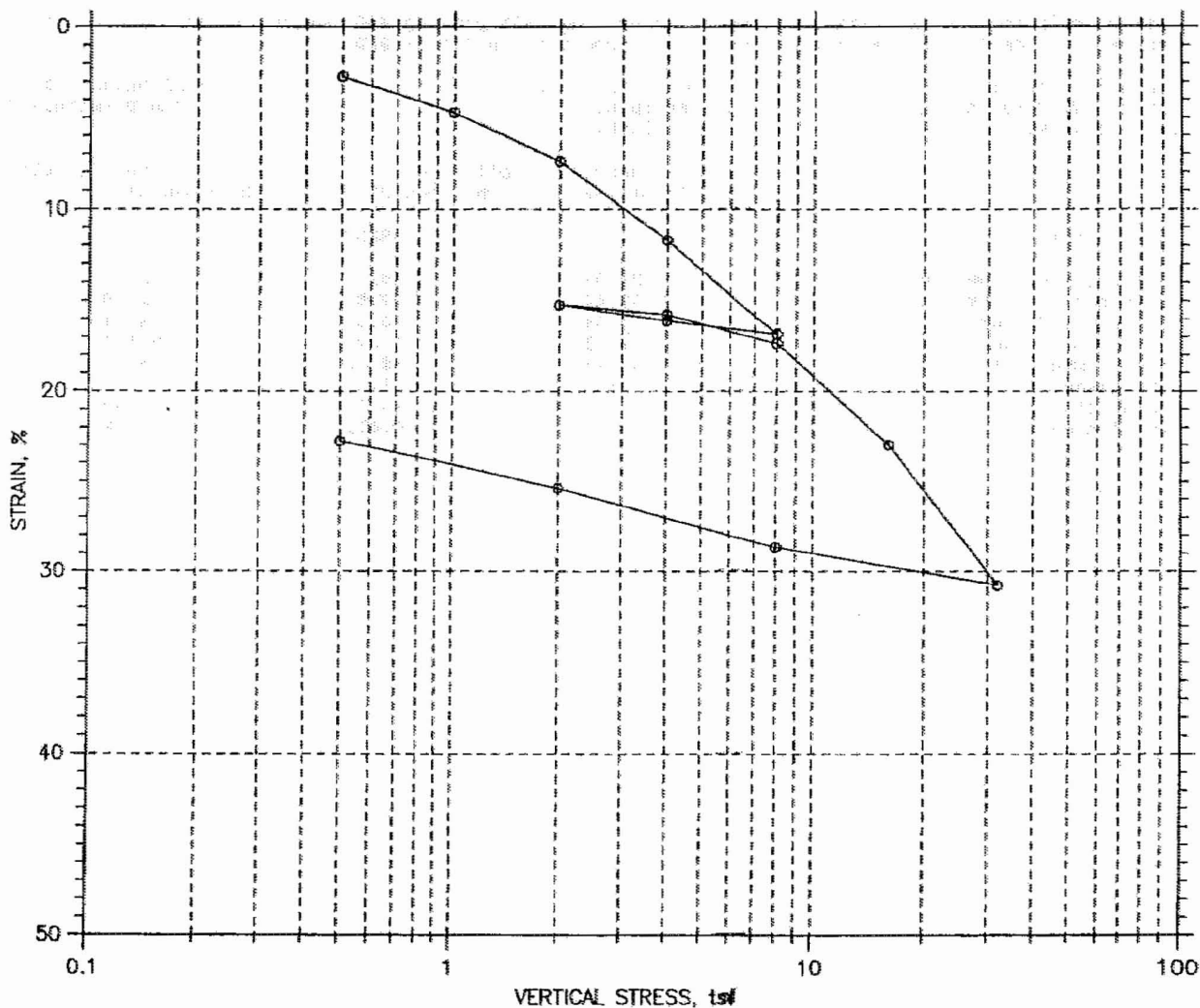
Stress: 16. tsf



<b>GeoTesting</b> <b>express</b> <small>a subsidiary of Geocomp Corporation</small>	Project: Calvert Cliffs Nuclear PP	Location: Calvert County, MD	Project No.: GTX-6880
	Boring No.: B-406	Tested By: njh	Checked By: jdt
	Sample No.: S-16	Test Date: 10/14/06	Depth: 63.5-65.5
	Test No.: C-50	Sample Type: tube	Elevation: ---
	Description: Moist, very dark gray organic clay (OH), 90% passing #200 sieve, inundated @ 0.5 tsf		
	Remarks: System G - Compression Ratio: 0.30, Recompression Ratio: 0.04		



## CONSOLIDATION TEST DATA SUMMARY REPORT



				Before Test	After Test
Overburden Pressure: ---				54.52	35.05
Preconsolidation Pressure: 4.9 tsf				66.49	86.1
Compression Index: ---				96.61	99.99
Diameter: 2.5 in		Height: 1 in		1.51	0.94
LL: 61	PL: 19	PI: 42	GS: 2.67		

<b>GeoTesting express</b> <small>a subsidiary of Geocomp Corporation</small>	Project: Calvert Cliffs Nuclear PP		Location: Calvert County, MD		Project No.: GTX-6880	
	Boring No.: B-411		Tested By: md		Checked By: jdt	
	Sample No.: S-8		Test Date: 10/17/06		Depth: 23.5-25.5	
	Test No.: C-51		Sample Type: tube		Elevation: ---	
	Description: Moist, dark gray organic clay (OH), 95% passing #200 sieve, inundated @ 0.5 tsf					
	Remarks: System C - Compression Ratio: 0.26, Recompression Ratio: 0.05					

CONSOLIDATION TEST DATA

Project: Calvert Cliffs Nuclear PP  
 Boring No.: B-411  
 Sample No.: S-8  
 Test No.: C-51

Location: Calvert County, MD  
 Tested By: md  
 Test Date: 10/17/06  
 Sample Type: tube

Project No.: GTX-6880  
 Checked By: jdt  
 Depth: 23.5-25.5  
 Elevation: ---

Soil Description: Moist, dark gray organic clay (OH), 95% passing #200 sieve, inundated @ 0.5 tsf  
 Remarks: System C - Compression Ratio: 0.26, Recompression Ratio: 0.05

Measured Specific Gravity: 2.67  
 Initial Void Ratio: 1.51  
 Final Void Ratio: 0.94

Liquid Limit: 61  
 Plastic Limit: 19  
 Plasticity Index: 42

Initial Height: 1.00 in  
 Specimen Diameter: 2.50 in

Container ID	Before Consolidation		After Consolidation	
	Trimmings	Specimen+Ring	Specimen+Ring	Trimmings
	956	RING		2316
Wt. Container + Wet Soil, gm	129.04	349.3	332.62	128.24
Wt. Container + Dry Soil, gm	87.42	302.59	302.59	97.05
Wt. Container, gm	8.04	216.91	216.91	8.07
Wt. Dry Soil, gm	79.38	85.678	85.678	88.98
Water Content, %	52.43	54.52	35.05	35.05
Void Ratio	---	1.51	0.94	---
Degree of Saturation, %	---	96.61	99.99	---
Dry Unit Weight, pcf	---	66.493	86.098	---

CONSOLIDATION TEST DATA

Project: Calvert Cliffs Nuclear PP  
 Boring No.: B-411  
 Sample No.: S-8  
 Test No.: C-51

Location: Calvert County, MD  
 Tested By: md  
 Test Date: 10/17/06  
 Sample Type: tube

Project No.: GTX-6880  
 Checked By: jdt  
 Depth: 23.5-25.5  
 Elevation: ---

Soil Description: Moist, dark gray organic clay (OH), 95% passing #200 sieve, inundated @ 0.5 tsf  
 Remarks: System C - Compression Ratio: 0.26, Recompression Ratio: 0.05

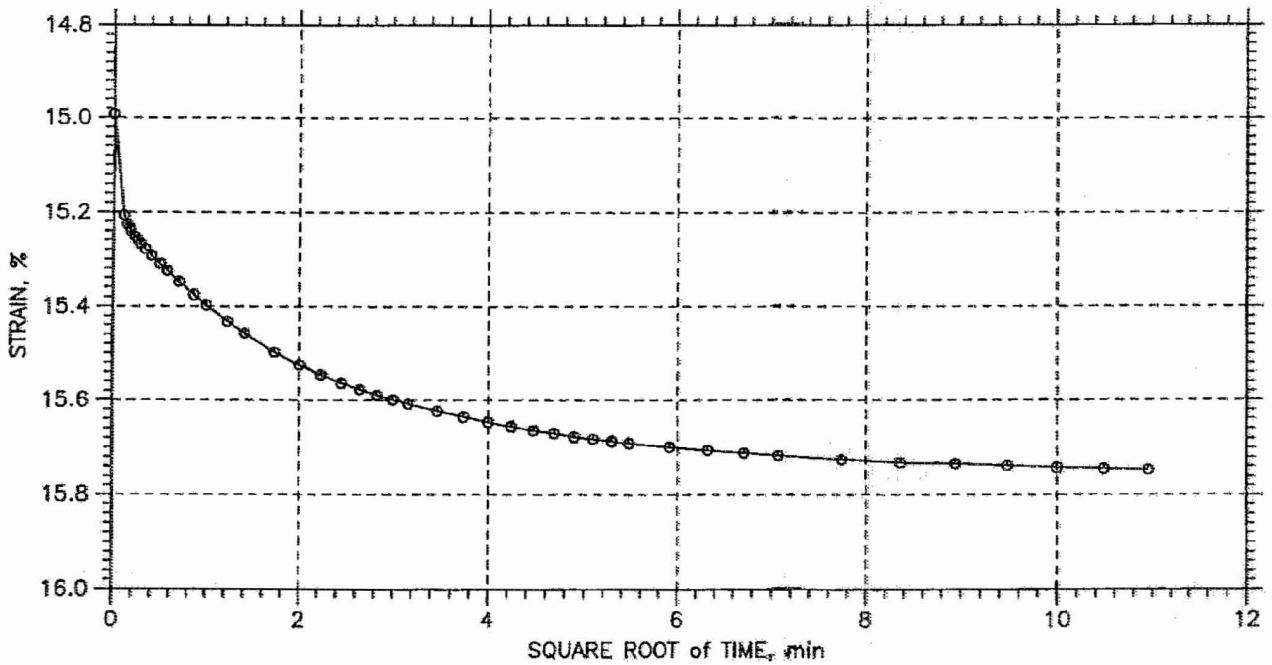
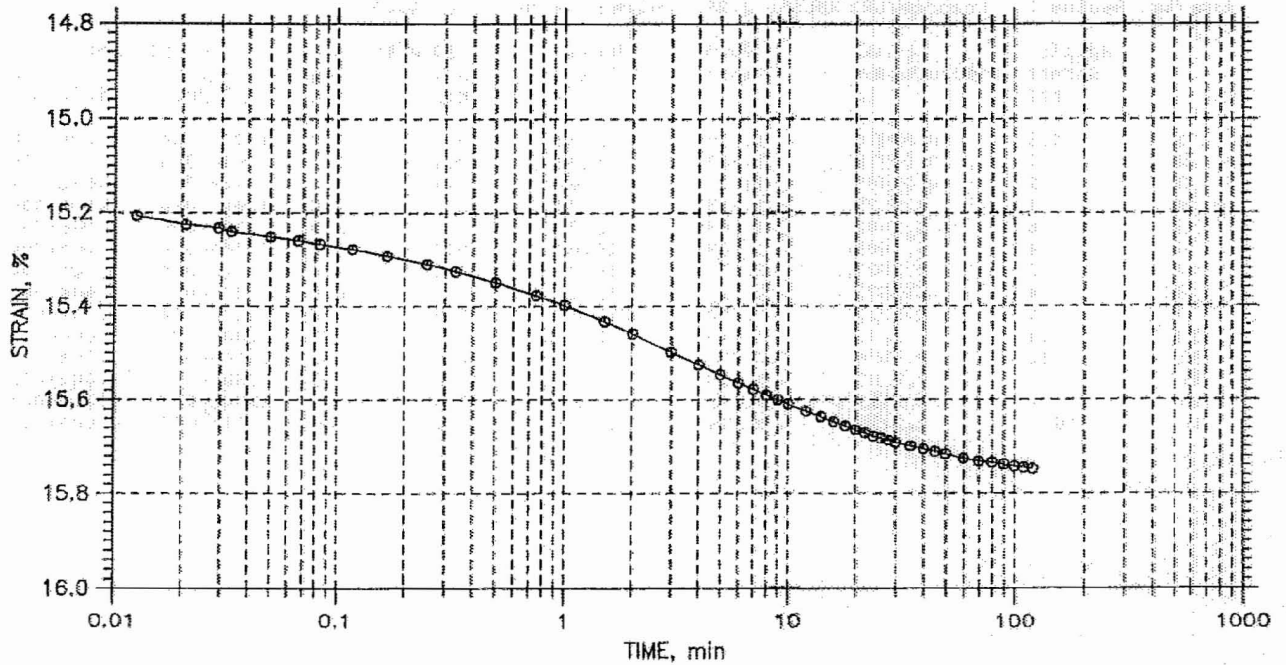
	Applied Stress tsf	Final Displacement in	Void Ratio	Strain at End %	T50 Fitting		Coefficient of Consolidation		
					Sq.Rt. min	Log min	Sq.Rt. in <sup>2</sup> /sec	Log in <sup>2</sup> /sec	Ave. in <sup>2</sup> /sec
1	0.5	0.02716	1.439	2.72	2.0	0.0	4.00e-004	0.00e+000	4.00e-004
2	1	0.04719	1.388	4.72	2.1	2.3	3.64e-004	3.37e-004	3.50e-004
3	2	0.07409	1.321	7.41	1.1	1.2	6.72e-004	5.84e-004	6.25e-004
4	4	0.1172	1.213	11.72	1.7	0.0	3.91e-004	0.00e+000	3.91e-004
5	8	0.1681	1.085	16.81	3.0	3.0	2.00e-004	2.04e-004	2.02e-004
6	4	0.1609	1.103	16.09	0.9	0.0	6.24e-004	0.00e+000	6.24e-004
7	2	0.1523	1.125	15.23	4.1	0.0	1.41e-004	0.00e+000	1.41e-004
8	4	0.1575	1.112	15.75	0.9	0.9	6.37e-004	6.64e-004	6.50e-004
9	8	0.1733	1.072	17.33	2.6	0.0	2.18e-004	0.00e+000	2.18e-004
10	16	0.2299	0.930	22.99	18.7	0.0	2.80e-005	0.00e+000	2.80e-005
11	32	0.3076	0.736	30.76	42.1	0.0	1.04e-005	0.00e+000	1.04e-005
12	8	0.2867	0.788	28.67	5.6	0.0	7.30e-005	0.00e+000	7.30e-005
13	2	0.2539	0.870	25.39	51.3	0.0	8.54e-006	0.00e+000	8.54e-006
14	0.5	0.2277	0.936	22.77	62.0	0.0	7.64e-006	0.00e+000	7.64e-006

# CONSOLIDATION TEST DATA

## TIME CURVES

Constant Load Step: 8 of 14

Stress: 4. tsf



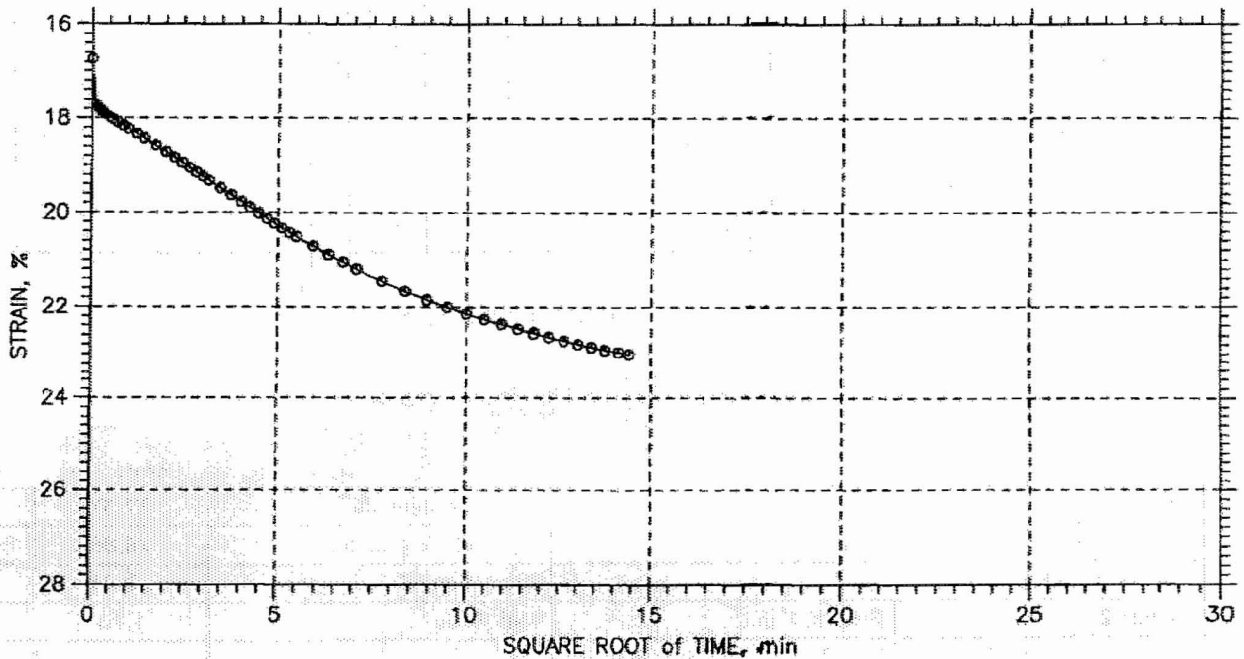
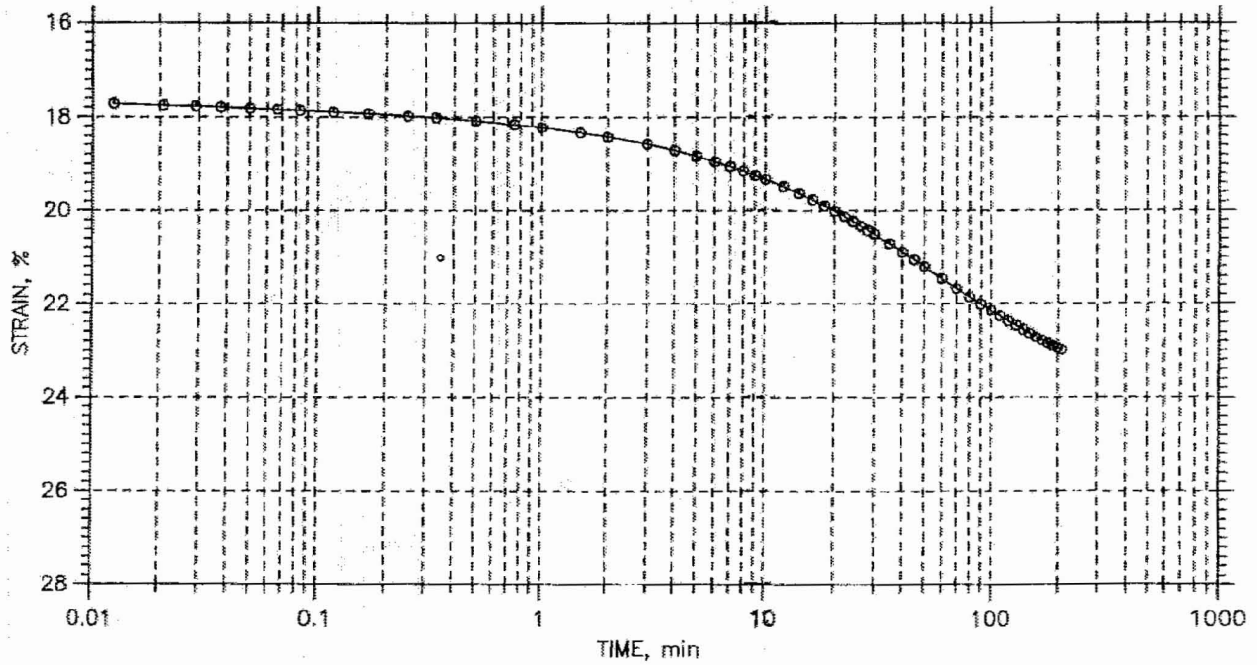
<b>GeoTesting</b> <b>express</b> <small>a subsidiary of Geocomp Corporation</small>	Project: Calvert Cliffs Nuclear PP	Location: Calvert County, MD	Project No.: GTX-6880
	Boring No.: B-411	Tested By: md	Checked By: jdt
	Sample No.: S-8	Test Date: 10/17/06	Depth: 23.5-25.5
	Test No.: C-51	Sample Type: tube	Elevation: ---
	Description: Moist, dark gray organic clay (OH), 95% passing #200 sieve, inundated @ 0.5 tsf		
	Remarks: System C - Compression Ratio: 0.26, Recompression Ratio: 0.05		

# CONSOLIDATION TEST DATA

## TIME CURVES

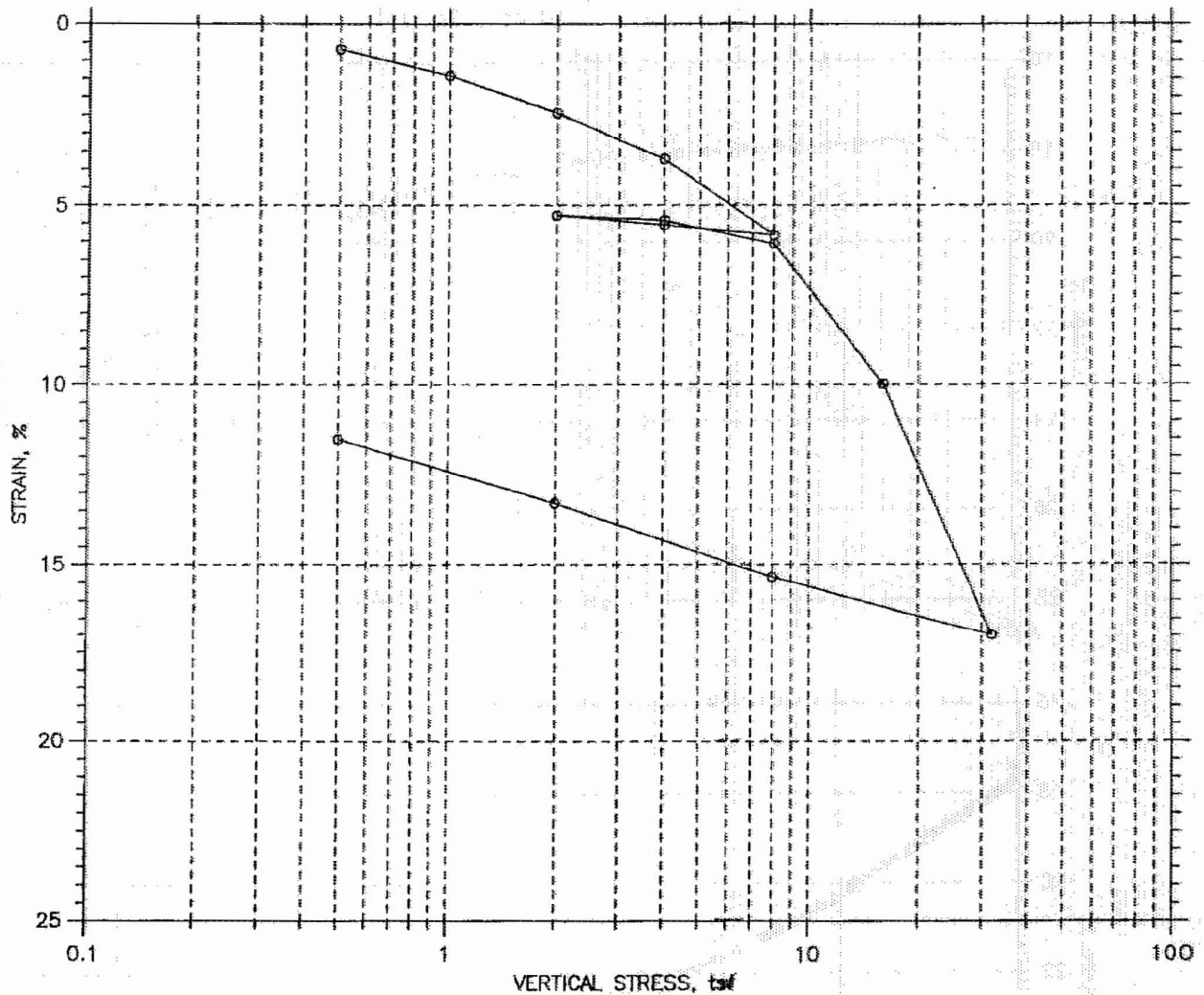
Constant Load Step: 10 of 14

Stress: 16. tsf



<b>GeoTesting</b> <b>express</b> <small>a subsidiary of Geocomp Corporation</small>	Project: Calvert Cliffs Nuclear PP	Location: Calvert County, MD	Project No.: GTX-6880
	Boring No.: B-411	Tested By: md	Checked By: jdt
	Sample No.: S-8	Test Date: 10/17/06	Depth: 23.5-25.5
	Test No.: C-51	Sample Type: tube	Elevation: ---
	Description: Moist, dark gray organic clay (OH), 95% passing #200 sieve, inundated @ 0.5 tsf		
	Remarks: System C - Compression Ratio: 0.26, Recompression Ratio: 0.05		

## CONSOLIDATION TEST DATA SUMMARY REPORT



				Before Test	After Test
Overburden Pressure: ---				37.37	32.51
Preconsolidation Pressure: 10.5 tsf				79.89	90.29
Compression Index: ---				90.01	100.00
Diameter: 2.5 in		Height: 1 in		1.13	0.89
LL: 59	PL: 16	PI: 43	GS: 2.73		

<b>GeoTesting express</b> <small>a subsidiary of Geosomo Corporation</small>	Project: Calvert Cliffs Nuclear PP		Location: Calvert County, MD		Project No.: GTX-6880	
	Boring No.: B-413		Tested By: md		Checked By: jdt	
	Sample No.: S-17		Test Date: 09/27/88		Depth: 73-75	
	Test No.: C-31		Sample Type: tube		Elevation: ---	
	Description: Moist, dark greenish gray clay (CH), 98% passing #200 sieve, inundated @ 0.5 tsf					
	Remarks: System C - Compression Ratio: 0.24, Recompression Ratio: 0.03					

CONSOLIDATION TEST DATA

Project: Calvert Cliffs Nuclear PP  
 Boring No.: B-413  
 Sample No.: S-17  
 Test No.: C-31

Location: Calvert County, MD  
 Tested By: md  
 Test Date: 09/27/06  
 Sample Type: tube

Project No.: GTX-6880  
 Checked By: jdt  
 Depth: 73-75  
 Elevation: ---

Soil Description: Moist, dark greenish gray clay (CH), 98% passing #200 sieve, inundated @ 0.5 tsf  
 Remarks: System C - Compression Ratio: 0.24, Recompression Ratio: 0.03

Measured Specific Gravity: 2.73  
 Initial Void Ratio: 1.13  
 Final Void Ratio: 0.89

Liquid Limit: 59  
 Plastic Limit: 16  
 Plasticity Index: 43

Initial Height: 1.00 in  
 Specimen Diameter: 2.50 in

Container ID	Before Consolidation		After Consolidation	
	Trimmings	Specimen+Ring	Specimen+Ring	Trimmings
Tube-4-4		RING		chase
Wt. Container + Wet Soil, gm	146.83	355.31	353.31	146.91
Wt. Container + Dry Soil, gm	111.76	319.84	319.84	112.91
Wt. Container, gm	8	216.91	216.91	8.33
Wt. Dry Soil, gm	103.76	102.93	102.93	104.58
Water Content, %	33.80	37.37	32.51	32.51
Void Ratio	---	1.13	0.89	---
Degree of Saturation, %	---	95.81	100.00	---
Dry Unit Weight, pcf	---	79.886	90.29	---

CONSOLIDATION TEST DATA

Project: Calvert Cliffs Nuclear PP  
 Boring No.: B-413  
 Sample No.: S-17  
 Test No.: C-31

Location: Calvert County, MD  
 Tested By: md  
 Test Date: 09/27/06  
 Sample Type: tube

Project No.: GTX-6880  
 Checked By: jdt  
 Depth: 73-75  
 Elevation: ---

Soil Description: Moist, dark greenish gray clay (CH), 98% passing #200 sieve, inundated @ 0.5 tsf  
 Remarks: System C - Compression Ratio: 0.24, Recompression Ratio: 0.03

	Applied Stress tsf	Final Displacement in	Void Ratio	Strain at End %	T50 Fitting		Coefficient of Consolidation		
					Sq. Rt. min	Log min	Sq. Rt. in <sup>2</sup> /sec	Log in <sup>2</sup> /sec	Ave. in <sup>2</sup> /sec
1	0.5	0.006919	1.119	0.69	0.0	0.0	3.81e-002	0.00e+000	3.81e-002
2	1	0.0143	1.103	1.43	0.1	0.0	8.10e-003	3.90e-002	1.34e-002
3	2	0.02449	1.081	2.45	0.1	0.0	1.51e-002	4.38e-002	2.25e-002
4	4	0.0372	1.054	3.72	0.0	0.0	3.27e-002	4.73e-002	3.87e-002
5	8	0.05819	1.009	5.82	0.0	0.0	2.06e-002	5.01e-002	2.92e-002
6	4	0.05549	1.015	5.55	0.0	0.0	1.02e-001	0.00e+000	1.02e-001
7	2	0.05281	1.021	5.28	0.0	0.0	2.04e-002	2.01e+000	4.03e-002
8	4	0.05424	1.018	5.42	0.0	0.0	8.78e-002	0.00e+000	8.78e-002
9	8	0.06062	1.004	6.06	0.0	0.0	3.12e-002	0.00e+000	3.12e-002
10	16	0.09985	0.920	9.99	0.2	0.1	3.32e-003	1.08e-002	5.08e-003
11	32	0.1697	0.771	16.97	3.1	0.8	1.97e-004	0.00e+000	1.97e-004
12	8	0.1535	0.806	15.35	0.2	0.0	2.62e-003	4.64e-002	4.95e-003
13	2	0.1329	0.850	13.29	4.8	0.0	1.27e-004	0.00e+000	1.27e-004
14	0.5	0.1152	0.888	11.52	13.4	0.0	4.72e-005	0.00e+000	4.72e-005

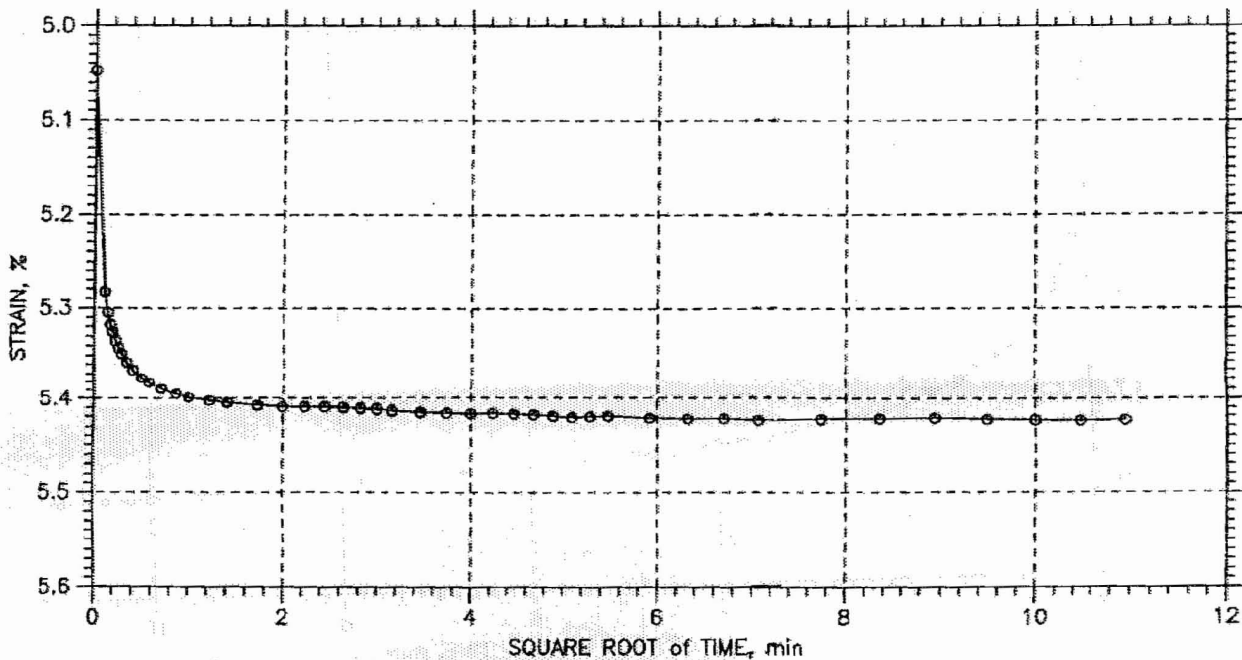
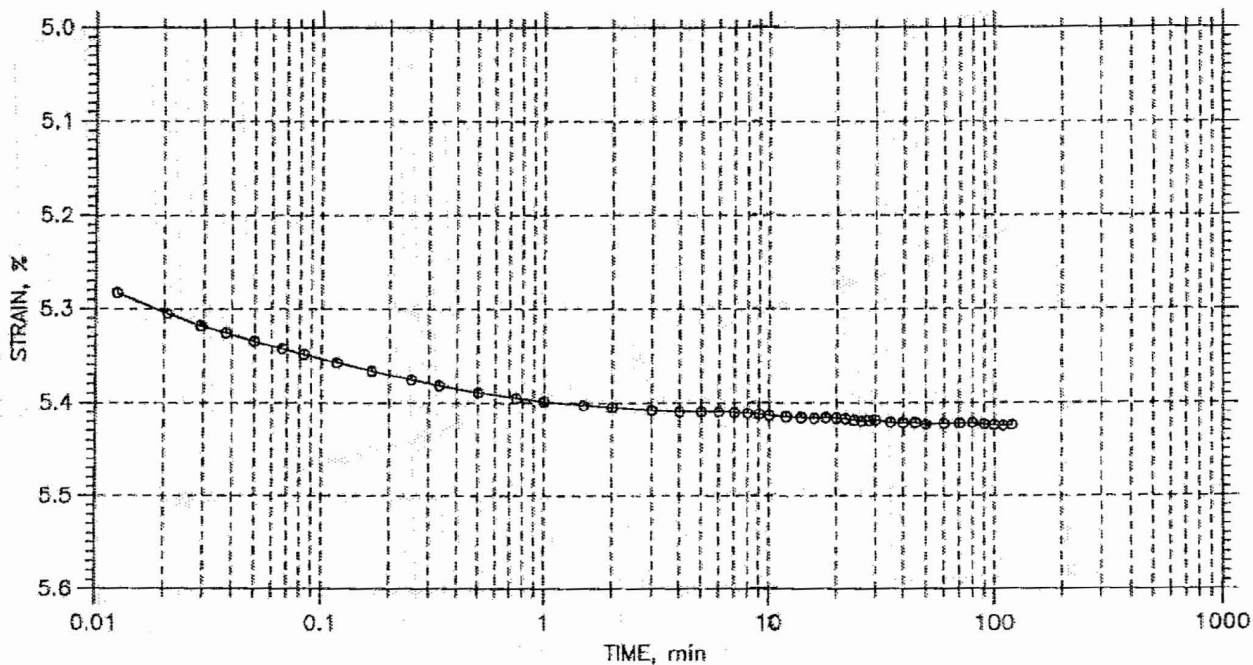



# CONSOLIDATION TEST DATA

## TIME CURVES

Constant Load Step: 8 of 14

Stress: 4. tsf



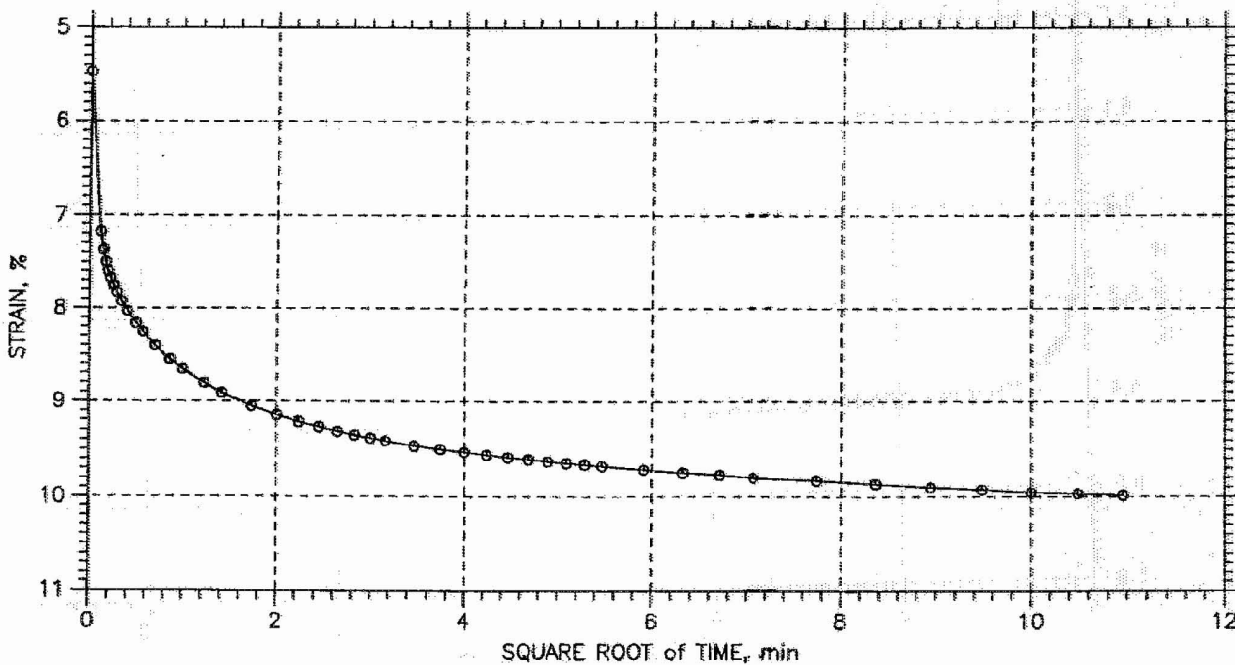
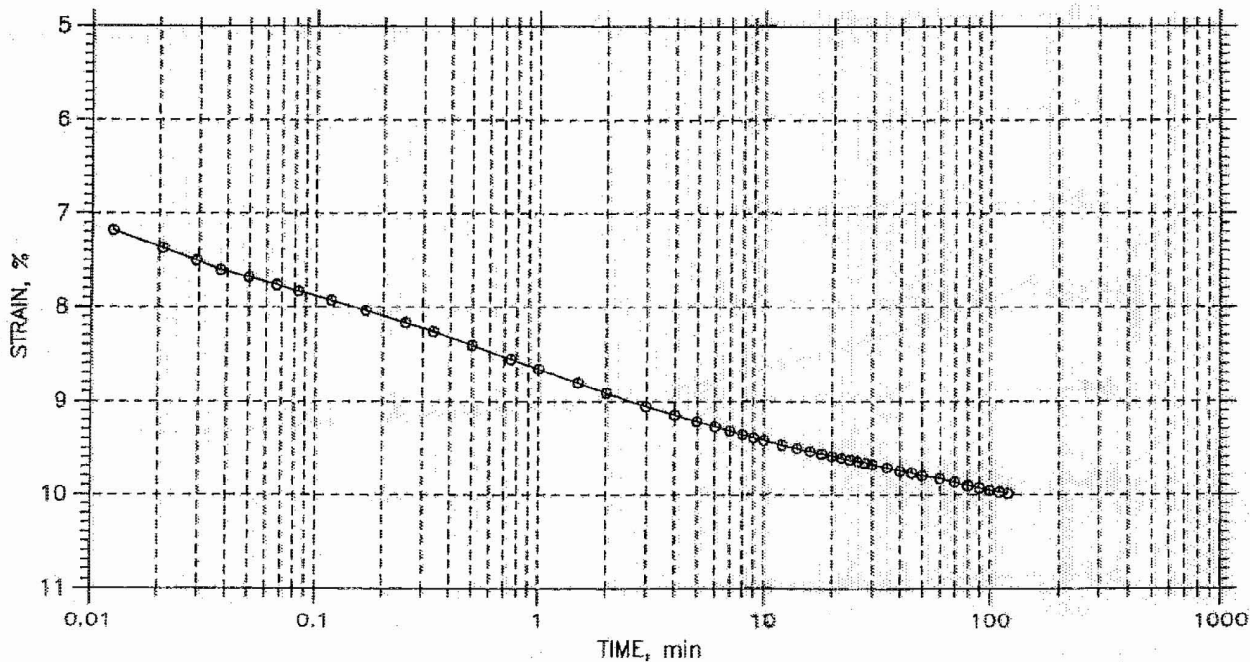
 <small>a subsidiary of Geocomp Corporation</small>	Project: Calvert Cliffs Nuclear PP	Location: Calvert County, MD	Project No.: GTX-6880
	Boring No.: B-413	Tested By: md	Checked By: jdt
	Sample No.: S-17	Test Date: 09/27/08	Depth: 73-75
	Test No.: C-31	Sample Type: tube	Elevation: ---
	Description: Moist, dark greenish gray clay (CH), 98% passing #200 sieve, inundated @ 0.5 tsf		
	Remarks: System C - Compression Ratio: 0.24, Recompression Ratio: 0.03		

# CONSOLIDATION TEST DATA

## TIME CURVES

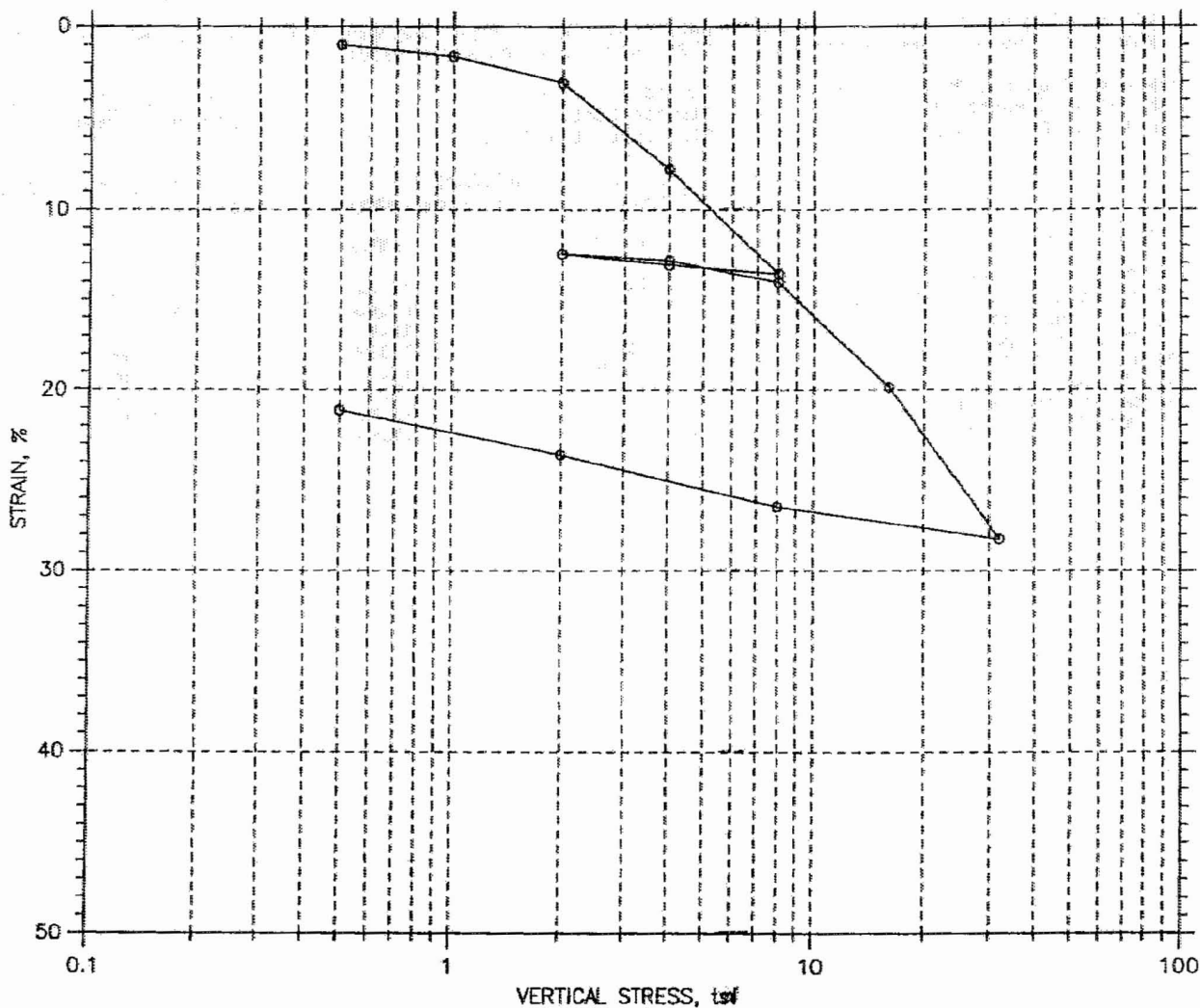
Constant Load Step: 10 of 14

Stress: 16. tsf



<b>GeoTesting</b> <b>express</b> <small>a subsidiary of Geocomp Corporation</small>	Project: Calvert Cliffs Nuclear PP	Location: Calvert County, MD	Project No.: GTX-6880
	Boring No.: B-413	Tested By: md	Checked By: jdt
	Sample No.: S-17	Test Date: 09/27/06	Depth: 73-75
	Test No.: C-31	Sample Type: tube	Elevation: ---
	Description: Moist, dark greenish gray clay (CH), 98% passing #200 sieve, inundated @ 0.5 tsf		
	Remarks: System C - Compression Ratio: 0.24, Recompression Ratio: 0.03		

## CONSOLIDATION TEST DATA SUMMARY REPORT



				Before Test	After Test
Overburden Pressure: ---				41.44	32.84
Preconsolidation Pressure: 4 tsf				71.55	90.72
Compression Index: ---				80.82	99.99
Diameter: 2.5 in		Height: 1 in		1.43	0.91
LL: 51	PL: 15	PI: 36	GS: 2.78		

<b>GeoTesting express</b> <small>a subsidiary of Geocomp Corporation</small>	Project: Calvert Cliffs Nuclear PP	Location: Calvert County, MD	Project No.: GTX-6880
	Boring No.: B-414	Tested By: md	Checked By: jdt
	Sample No.: S-17	Test Date: 09/26/66	Depth: 66-70
	Test No.: C-30	Sample Type: tube	Elevation: ---
	Description: Moist, dark greenish gray clay (CH), 97% passing #200 sieve, inundated @ 0.5 tsf		
	Remarks: System G - Compression Ratio: 0.28, Recompression Ratio: 0.04		

CONSOLIDATION TEST DATA

Project: Calvert Cliffs Nuclear PP  
 Boring No.: B-414  
 Sample No.: S-17  
 Test No.: C-30

Location: Calvert County, MD  
 Tested By: md  
 Test Date: 09/26/06  
 Sample Type: tube

Project No.: GTX-6880  
 Checked By: jdt  
 Depth: 68-70  
 Elevation: ---

Soil Description: Moist, dark greenish gray clay (CH), 97% passing #200 sieve, inundated @ 0.5 tsf  
 Remarks: System G - Compression Ratio: 0.28, Recompression Ratio: 0.04

Measured Specific Gravity: 2.78  
 Initial Void Ratio: 1.43  
 Final Void Ratio: 0.91

Liquid Limit: 51  
 Plastic Limit: 15  
 Plasticity Index: 36

Initial Height: 1.00 in  
 Specimen Diameter: 2.50 in

Container ID	Before Consolidation		After Consolidation	
	Trimming	Specimen+Ring	Specimen+Ring	Trimming
	B-107	RING		2020
Wt. Container + Wet Soil, gm	122.75	346.86	338.93	133.08
Wt. Container + Dry Soil, gm	91.73	308.65	308.65	102.2
Wt. Container, gm	8.09	216.46	216.46	8.17
Wt. Dry Soil, gm	83.64	92.193	92.193	94.03
Water Content, %	37.09	41.84	32.84	32.84
Void Ratio	---	1.43	0.91	---
Degree of Saturation, %	---	80.82	99.99	---
Dry Unit Weight, pcf	---	71.85	90.72	---