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_o), in.: 0.7512

Height of Solids (H_s), in.: 0.2201

Boring No.: *B-401*

Depth: *243.5-244.4 ft*

Seating Press. (tsf): 0.05

Initial Dial Gauge Reading (D_o), in.: 0.0000

Reviewed by: CJS

Pressure, P (tsf)	Time Readings Required	Date Load Applied	Time Load Applied	Load Applied By	A: Final[1] Dial Reading, D_{fi} x 10^{-4} in.	B: Apparatus Correction[2], D_{ci} x 10^{-4} in.	C: Cumulative Change in Height[3], ΔH_i in.	D: Height of Voids[4], H_{vi} in.	Vertical Strain[5], ε_i (%)	Void Ratio[6], e_i
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. $\Delta H = D_{fi} - D_o - D_{ci}$ = Col. A - D_o - Col. B
4. $H_{vi} = (H_o - H_s) - \Delta H$
5. $\varepsilon_i = (\Delta H / H_o) \times 100$ = (Col. C / H_o) x 100
6. $e_i = H_{vi} / Hs$ = Col. D / Hs

Consol 8/2006 Rev. 1

Schnabel
Schnabel Engineering

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 11/1/2006	32 tsf Load 11/4/2006	X tsf Load Date	X tsf Load Date	X tsf Load Date	X tsf Load 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				

Schnabel Engineering

Consolidation Time Curves

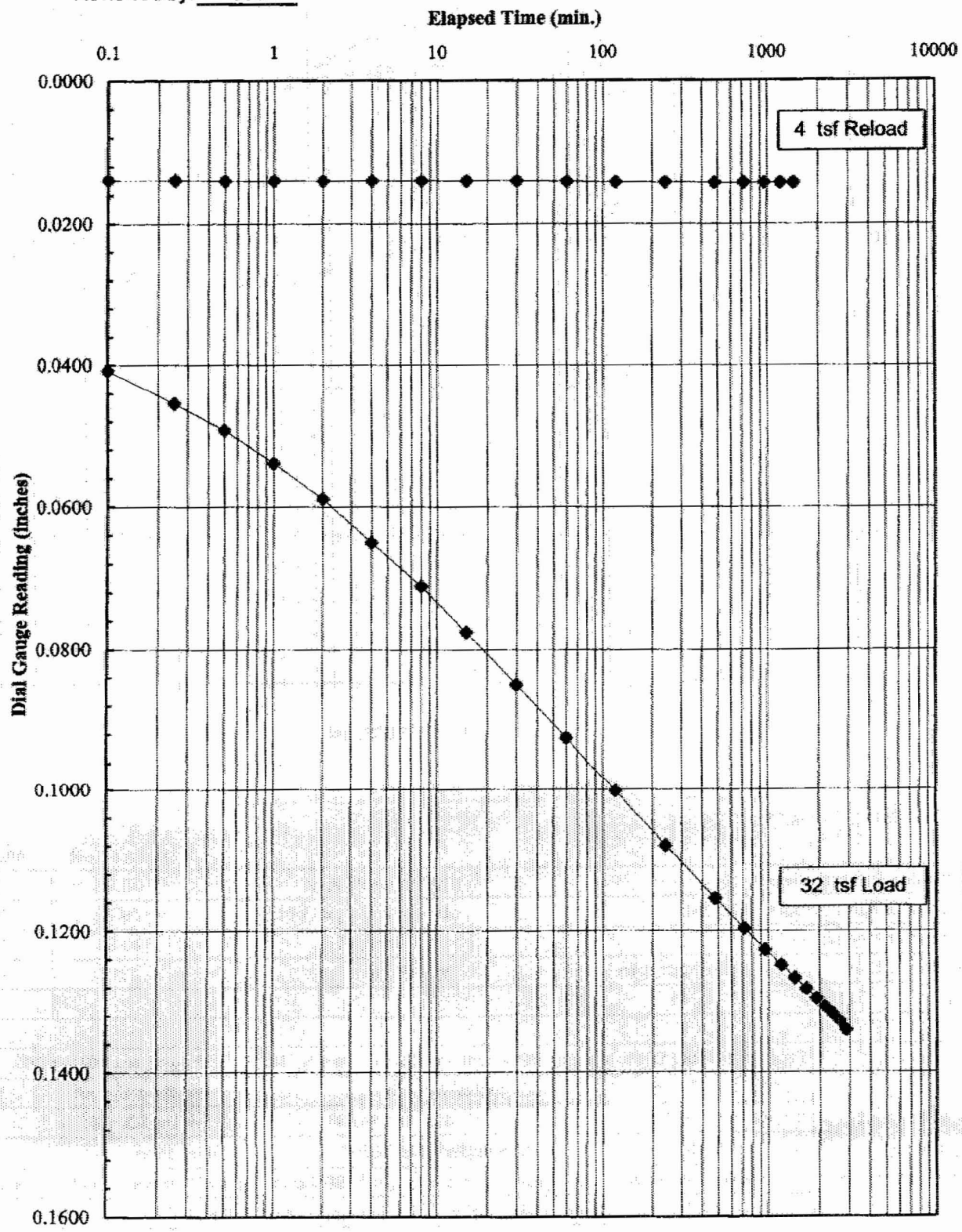
11/21/06

Project: Calvert Cliffs Nuclear Power Plant

Schnabel Contract: 06120048

Boring No.: B-401 Depth: 243.5-244.4 ft

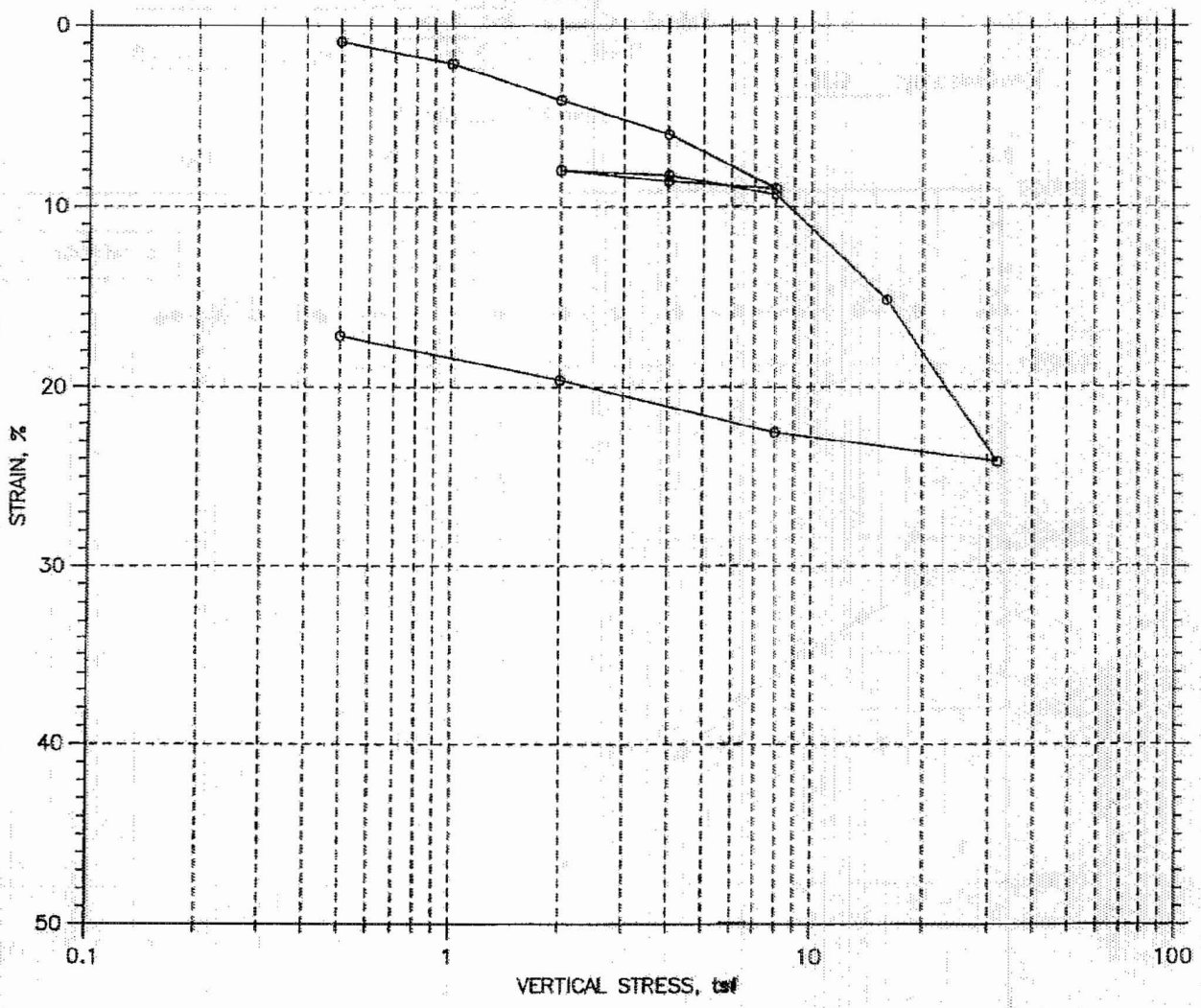
Reviewed by: CJS



Consol 8/2006 Rev. 1

CONSOLIDATION TEST DATA

SUMMARY REPORT



					Before Test	After Test
Overburden Pressure: ---				Water Content, %	38.93	29.19
Preconsolidation Pressure: 10.5 tsf				Dry Unit Weight, pcf	78.72	95.04
Compression Index: ---				Saturation, %	90.94	99.99
Diameter: 2.5 in		Height: 1 in		Void Ratio	1.17	0.80
LL: 63	PL: 19	PI: 44	GS: 2.74			

GeoTesting express a subsidiary of Geocomp Corporation	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		

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CONSOLIDATION TEST DATA

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: ---

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	Liquid Limit: 63	Initial Height: 1.00 in
Initial Void Ratio: 1.17	Plastic Limit: 19	Specimen Diameter: 2.50 in
Final Void Ratio: 0.80	Plasticity Index: 44	

	Before Consolidation		After Consolidation	
	Trimmings	Specimen+Ring	Specimen+Ring	Trimmings
Container ID	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

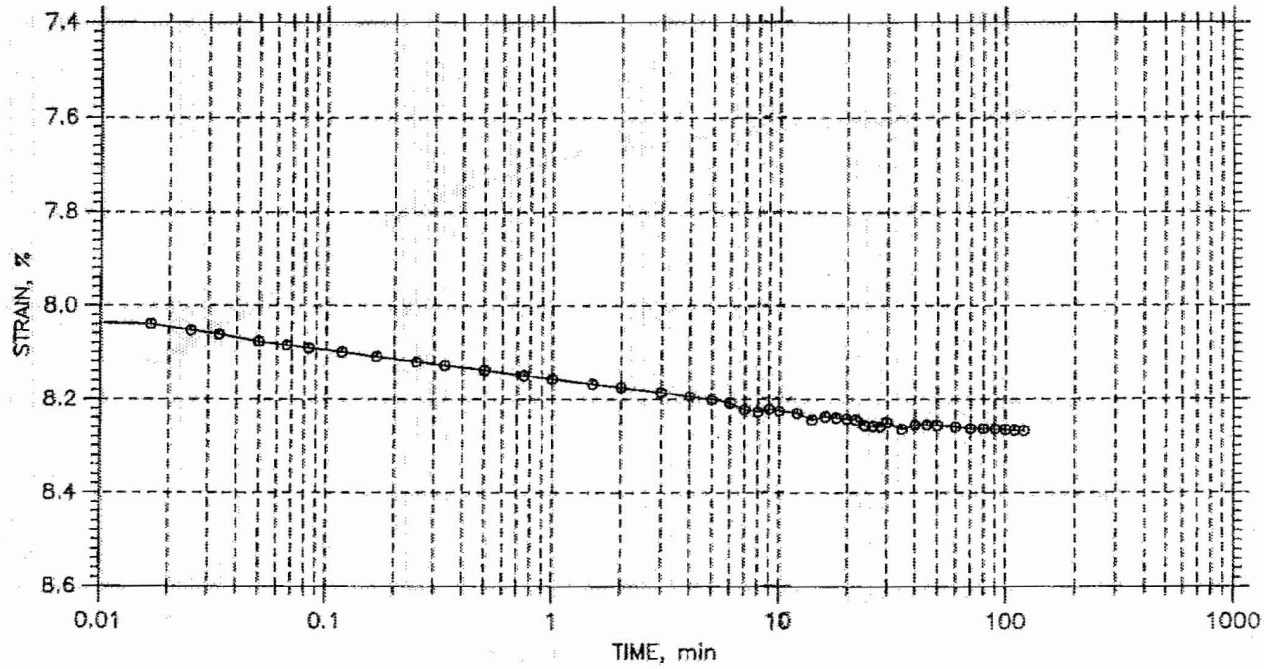
	Applied Stress tsf	Final Displacement in	Void Ratio	Strain at End %	T50 Fitting Sq.Rt. min	T50 Fitting Log min	Coefficient of Consolidation Sq.Rt. in^2/sec	Coefficient of Consolidation Log in^2/sec	Coefficient of Consolidation Ave. in^2/sec
1	0.5	0.008888	1.154	0.89	0.0	0.0	2.69e-002	0.00e+000	2.69e-002
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

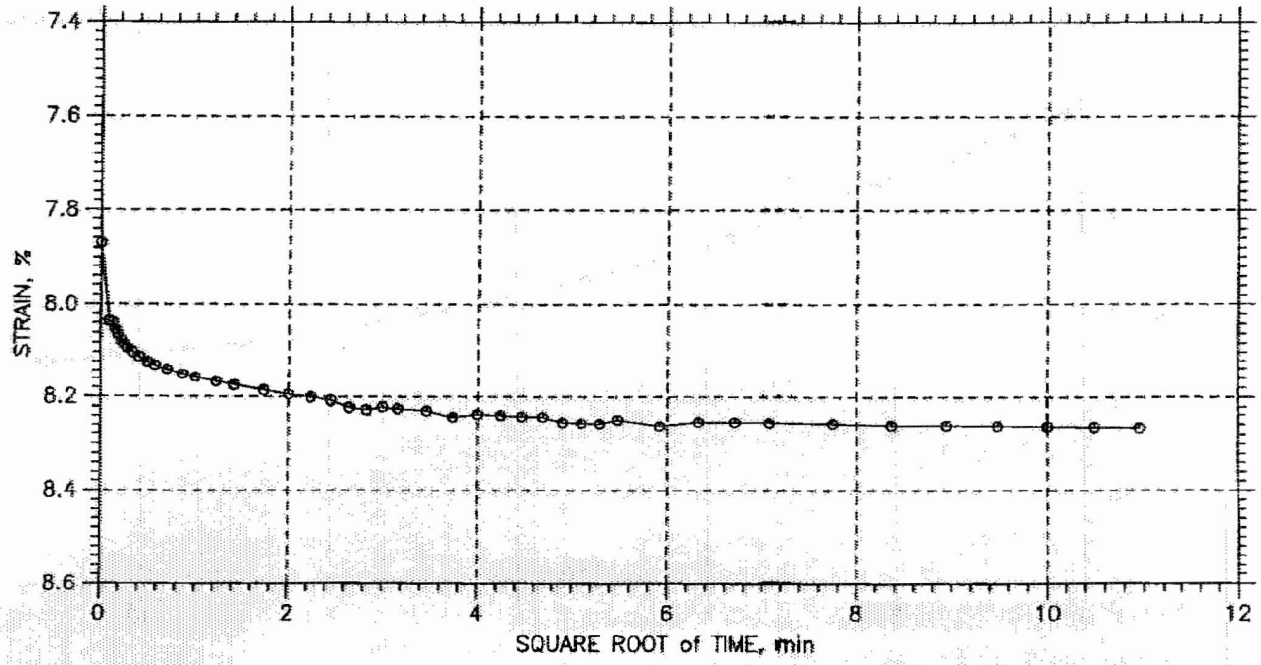
CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 8 of 14

Stress: 4. tsf





GeoTesting express a subsidiary of Geocomp Corporation	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		

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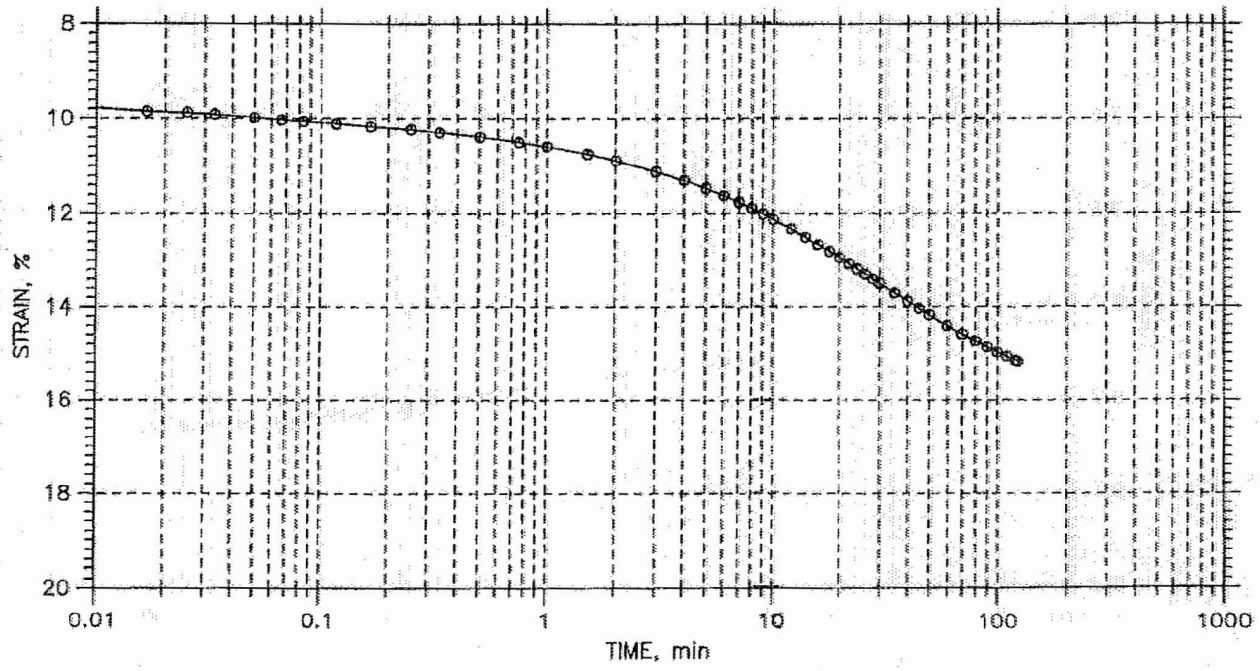
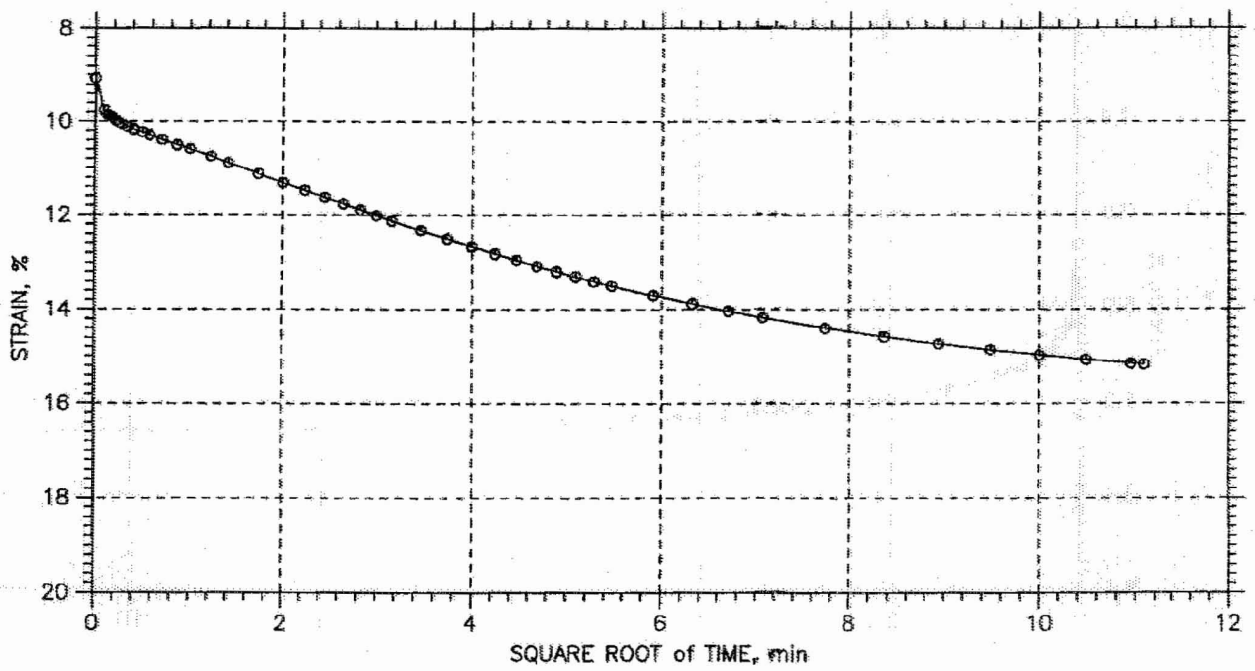
CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 10 of 14

Stress: 16. tsf





GeoTesting express a subsidiary of Geocomp Corporation	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		

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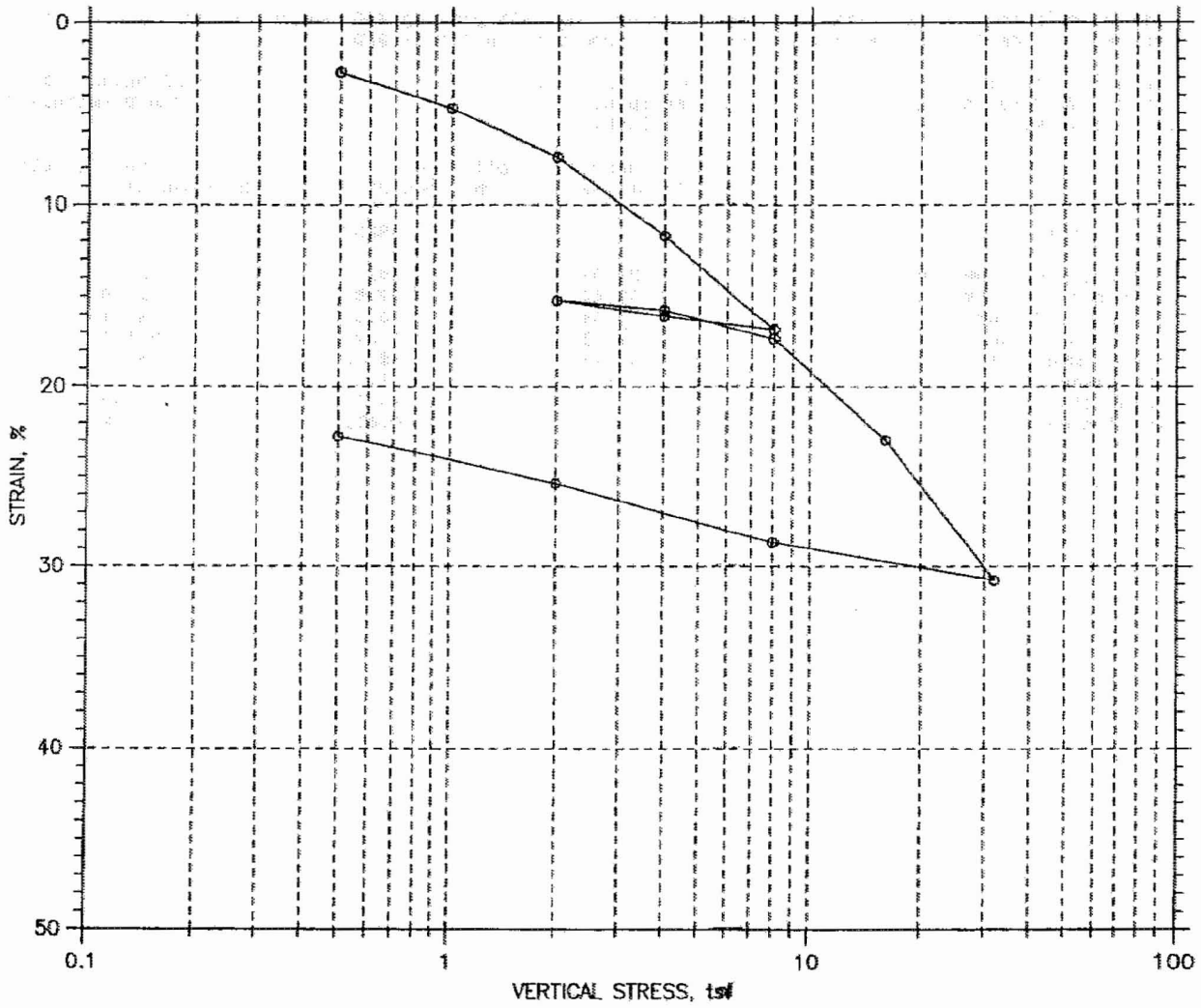
CONSOLIDATION TEST DATA
SUMMARY REPORT



					Before Test	After Test
Overburden Pressure: ---				Water Content, %	54.52	35.05
Preconsolidation Pressure: 4.9 tsf				Dry Unit Weight, pcf	66.49	86.1
Compression Index: ---				Saturation, %	96.61	99.99
Diameter: 2.5 in		Height: 1 in		Void Ratio	1.51	0.94
LL: 61	PL: 19	PI: 42	GS: 2.67			

GeoTesting express a subsidiary of Geocomp Corporation	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		

Thu, 09-NOV-2006 19:04:38

CONSOLIDATION TEST DATA

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: ---

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	Liquid Limit: 61	Initial Height: 1.00 in
Initial Void Ratio: 1.51	Plastic Limit: 19	Specimen Diameter: 2.50 in
Final Void Ratio: 0.94	Plasticity Index: 42	

	Before Consolidation		After Consolidation	
	Trimmings	Specimen+Ring	Specimen+Ring	Trimmings
Container ID	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

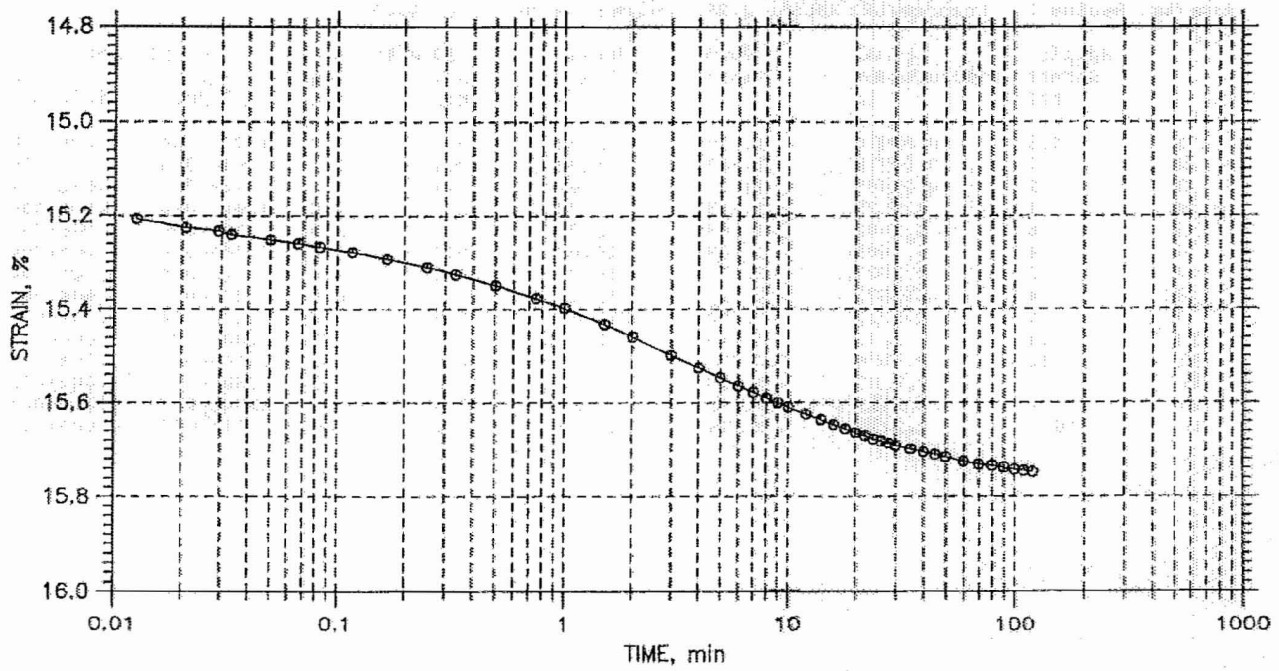
	Applied Stress tsf	Final Displacement in	Void Ratio	Strain at End %	T50 Fitting Sq.Rt. min	T50 Fitting Log min	Coefficient of Consolidation Sq.Rt. in^2/sec	Coefficient of Consolidation Log in^2/sec	Coefficient of Consolidation Ave. in^2/sec
1	0.5	0.02716	1.439	2.72	2.0	0.0	4.00e-004	0.00e+000	4.00e-004
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

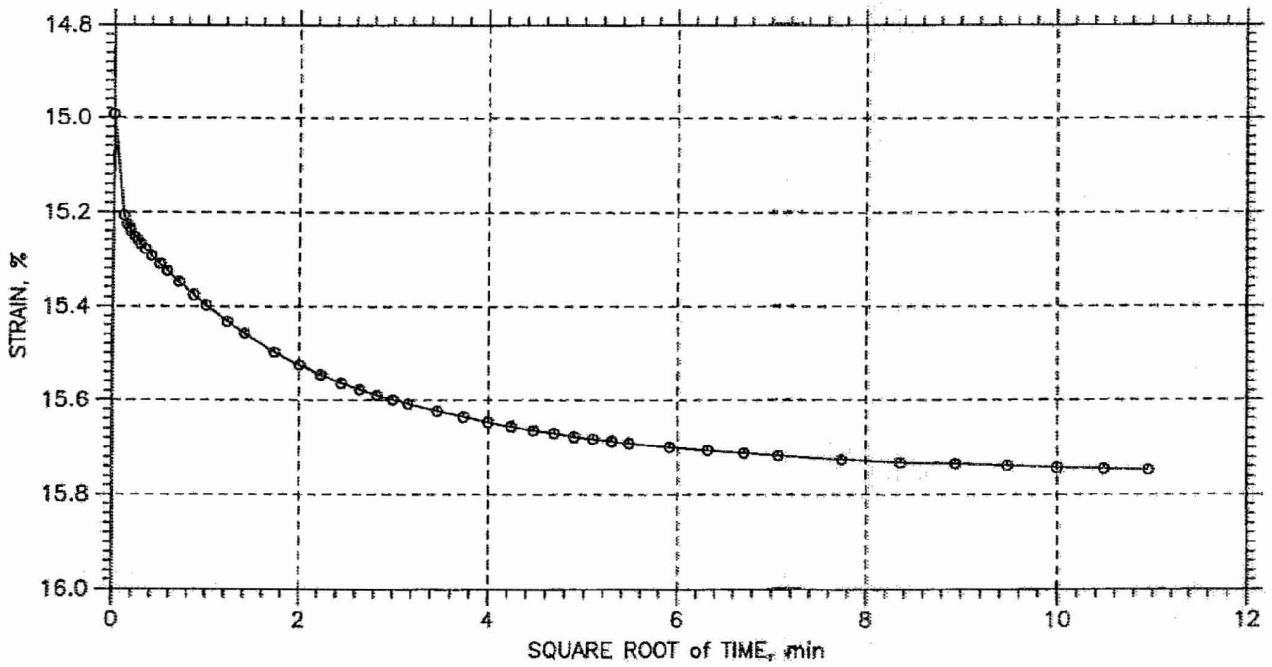
CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 8 of 14

Stress: 4. tsf





GeoTesting express a subsidiary of Geocomp Corporation	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		

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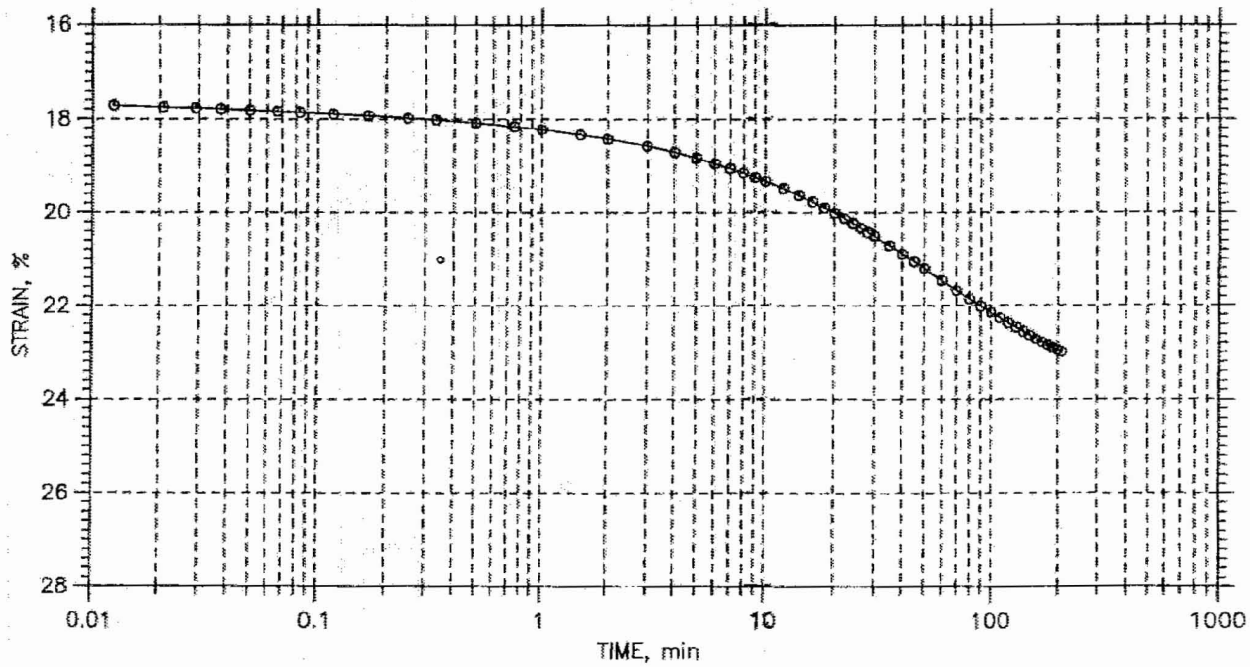
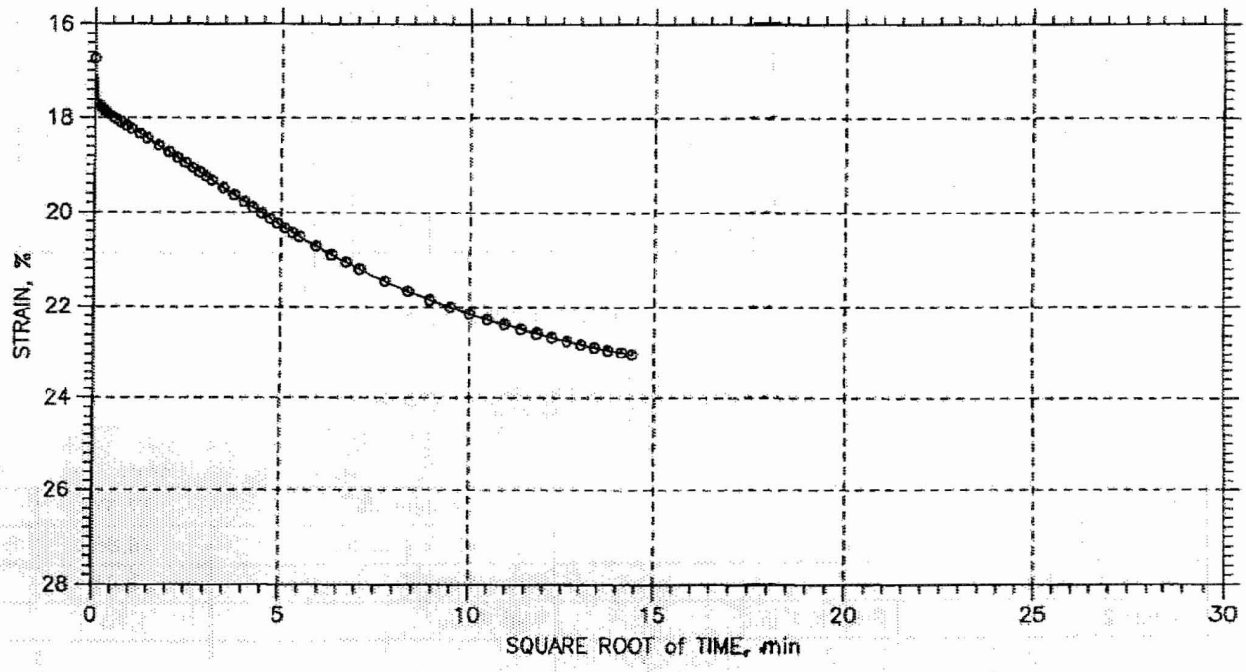
CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 10 of 14

Stress: 16. tsf





GeoTesting express a subsidiary of Geocomp Corporation	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		

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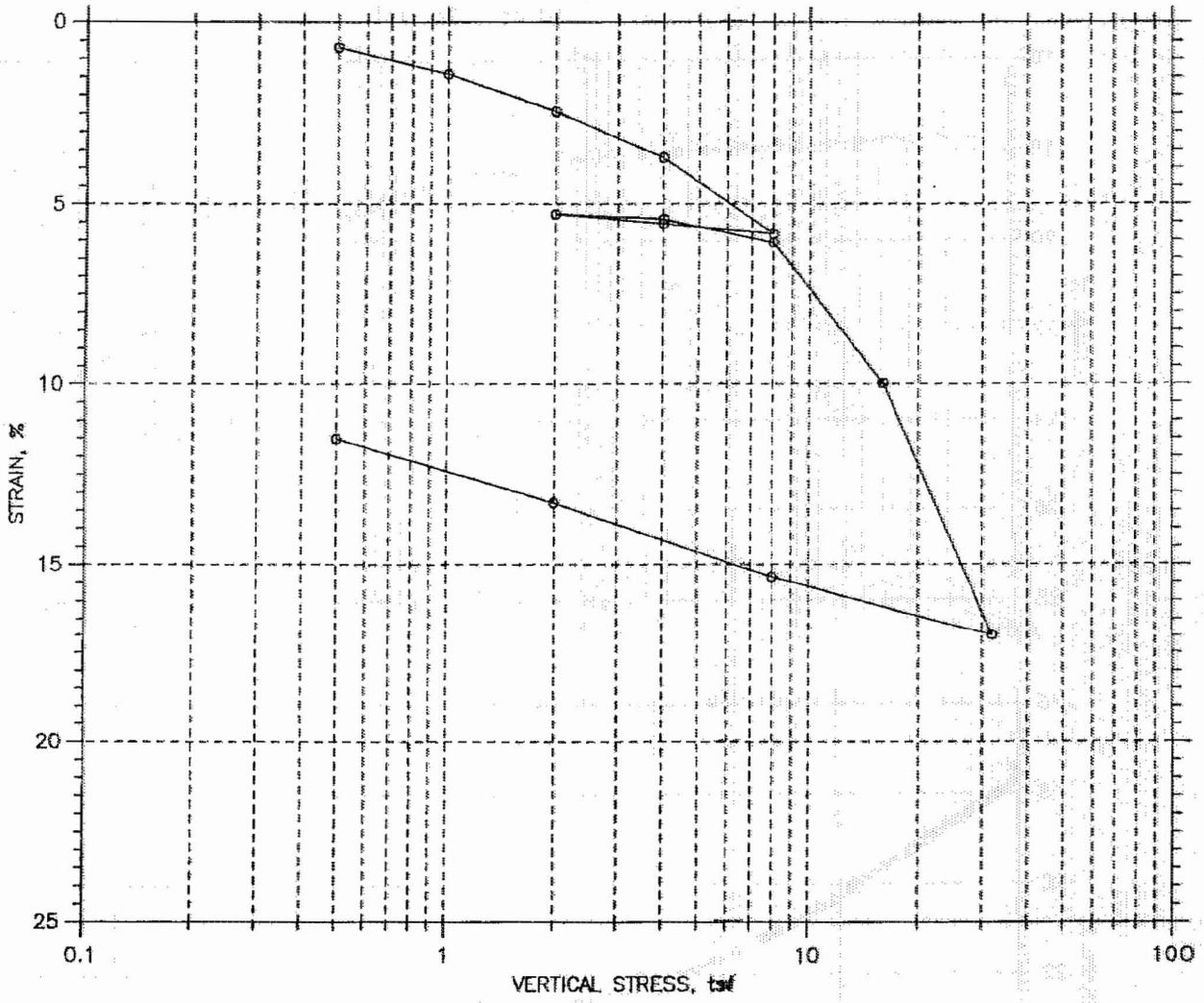
CONSOLIDATION TEST DATA

SUMMARY REPORT



				Before Test	After Test
Overburden Pressure: ---				Water Content, %	37.37	32.51
Preconsolidation Pressure: 10.5 tsf				Dry Unit Weight, pcf	79.89	90.29
Compression Index: ---				Saturation, %	90.01	100.00
Diameter: 2.5 in		Height: 1 in		Void Ratio	1.13	0.89
LL: 59	PL: 16	PI: 43	GS: 2.73			

GeoTesting express a subsidiary of Geocomp Corporation	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		

Fri, 10-NOV-2006 14:49:58

CONSOLIDATION TEST DATA

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: ---

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	Liquid Limit: 59	Initial Height: 1.00 in
Initial Void Ratio: 1.13	Plastic Limit: 16	Specimen Diameter: 2.50 in
Final Void Ratio: 0.89	Plasticity Index: 43	

	Before Consolidation		After Consolidation	
	Trimmings	Specimen+Ring	Specimen+Ring	Trimmings
Container ID	Tube-4-4	RING		chase
Wt. Container + Wet Soil, gm	146.83	358.31	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, %	---	90.01	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

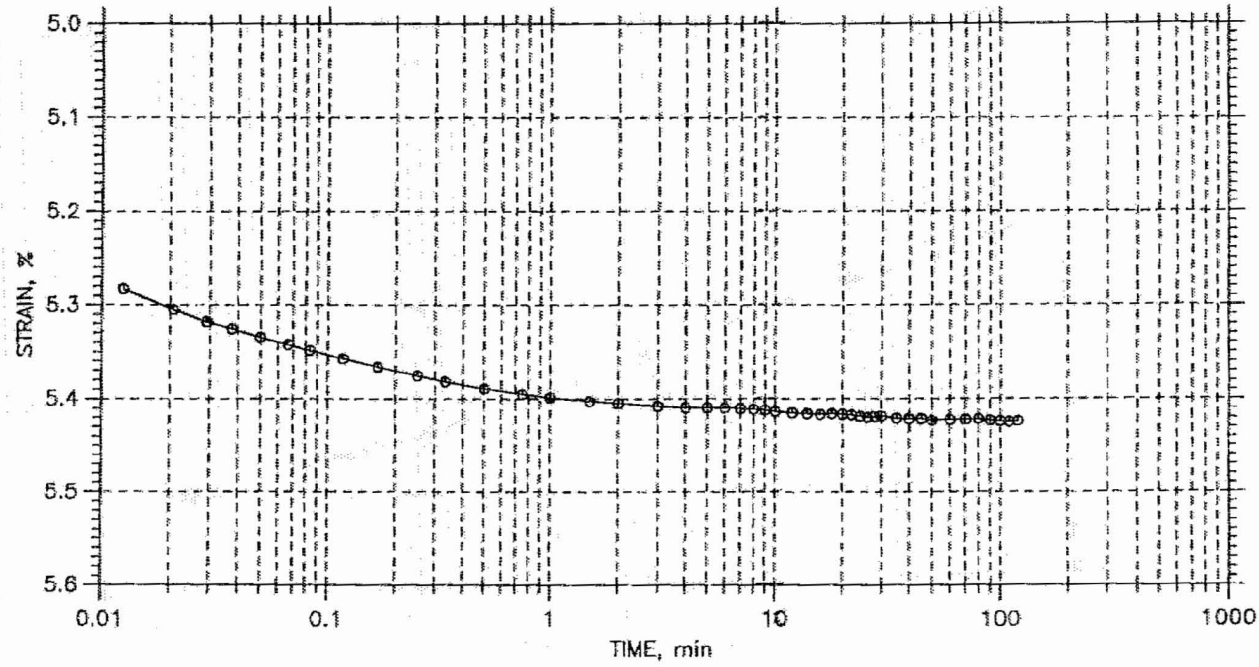
	Applied Stress tsf	Final Displacement in	Void Ratio	Strain at End %	T50 Fitting Sq.Rt. min	T50 Fitting Log min	Coefficient of Consolidation Sq.Rt. in^2/sec	Coefficient of Consolidation Log in^2/sec	Coefficient of Consolidation Ave. in^2/sec
1	0.5	0.006919	1.119	0.69	0.0	0.0	3.81e-002	0.00e+000	3.81e-002
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	0.0	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

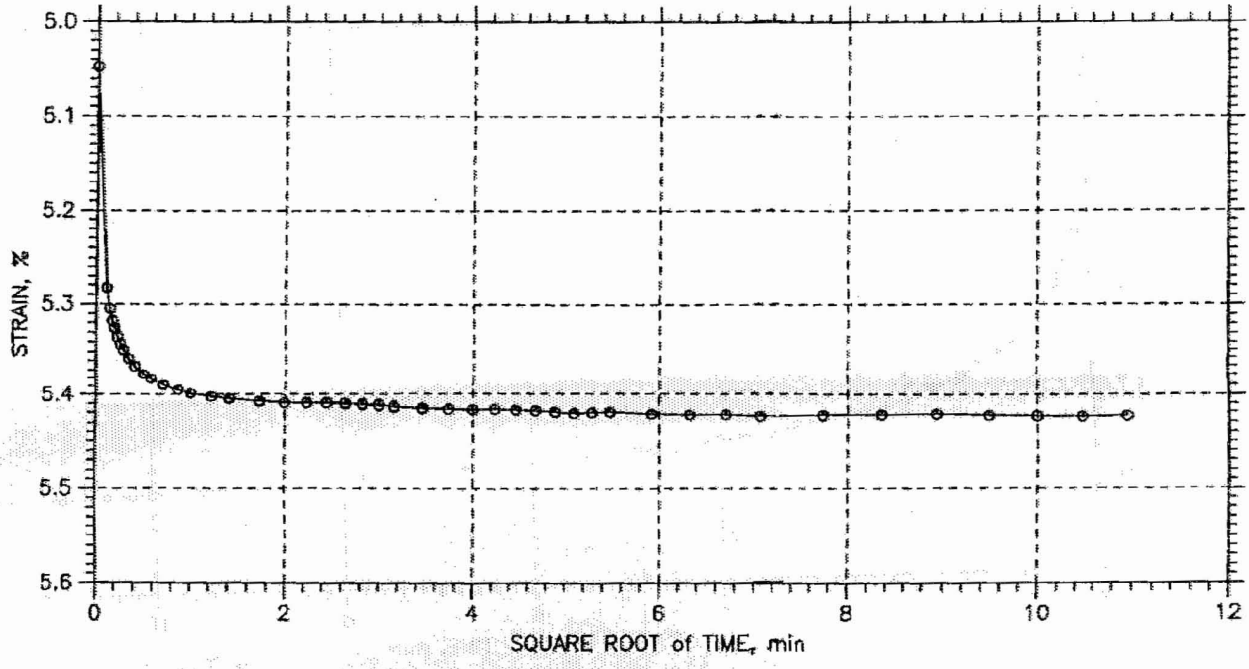
CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 8 of 14

Stress: 4. tsf





GeoTesting express a subsidiary of Geocomp Corporation	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		

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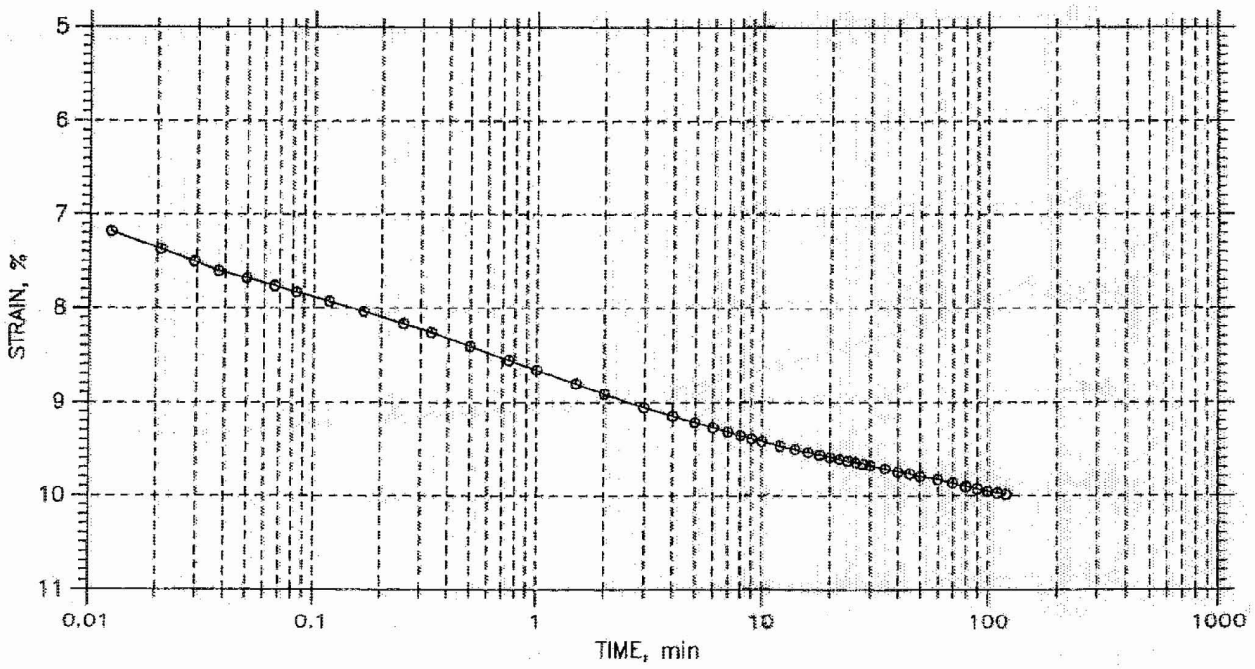
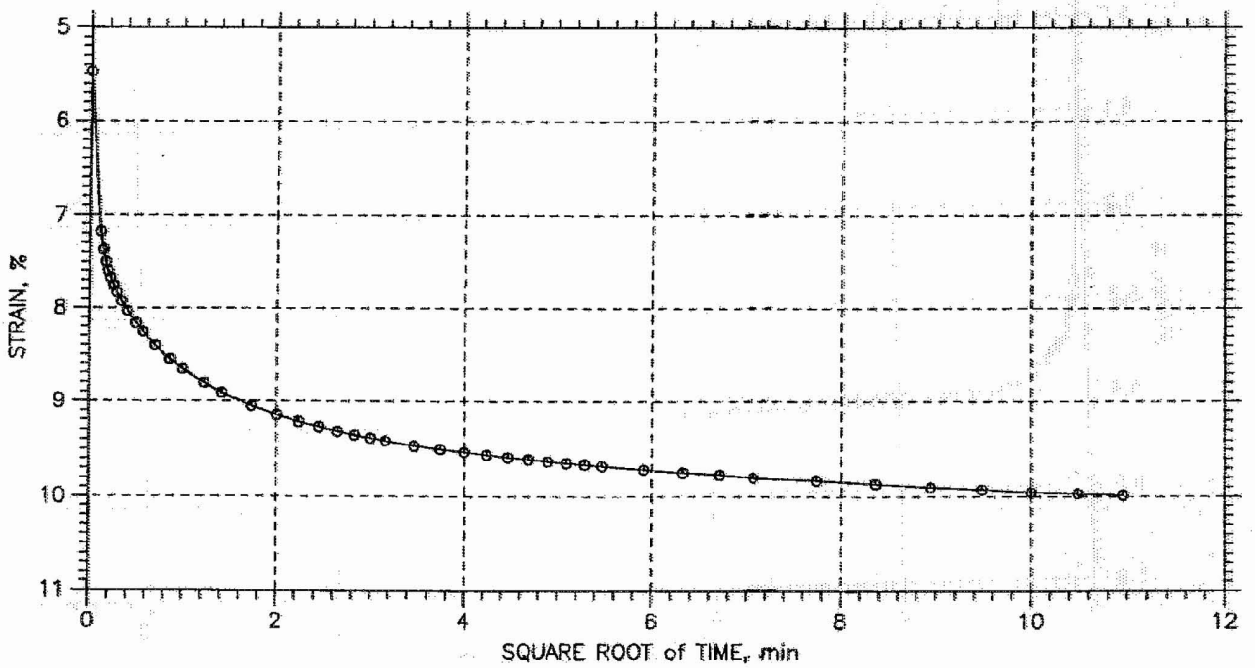
CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 10 of 14

Stress: 16. tsf





GeoTesting express a subsidiary of Geocomp Corporation	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		

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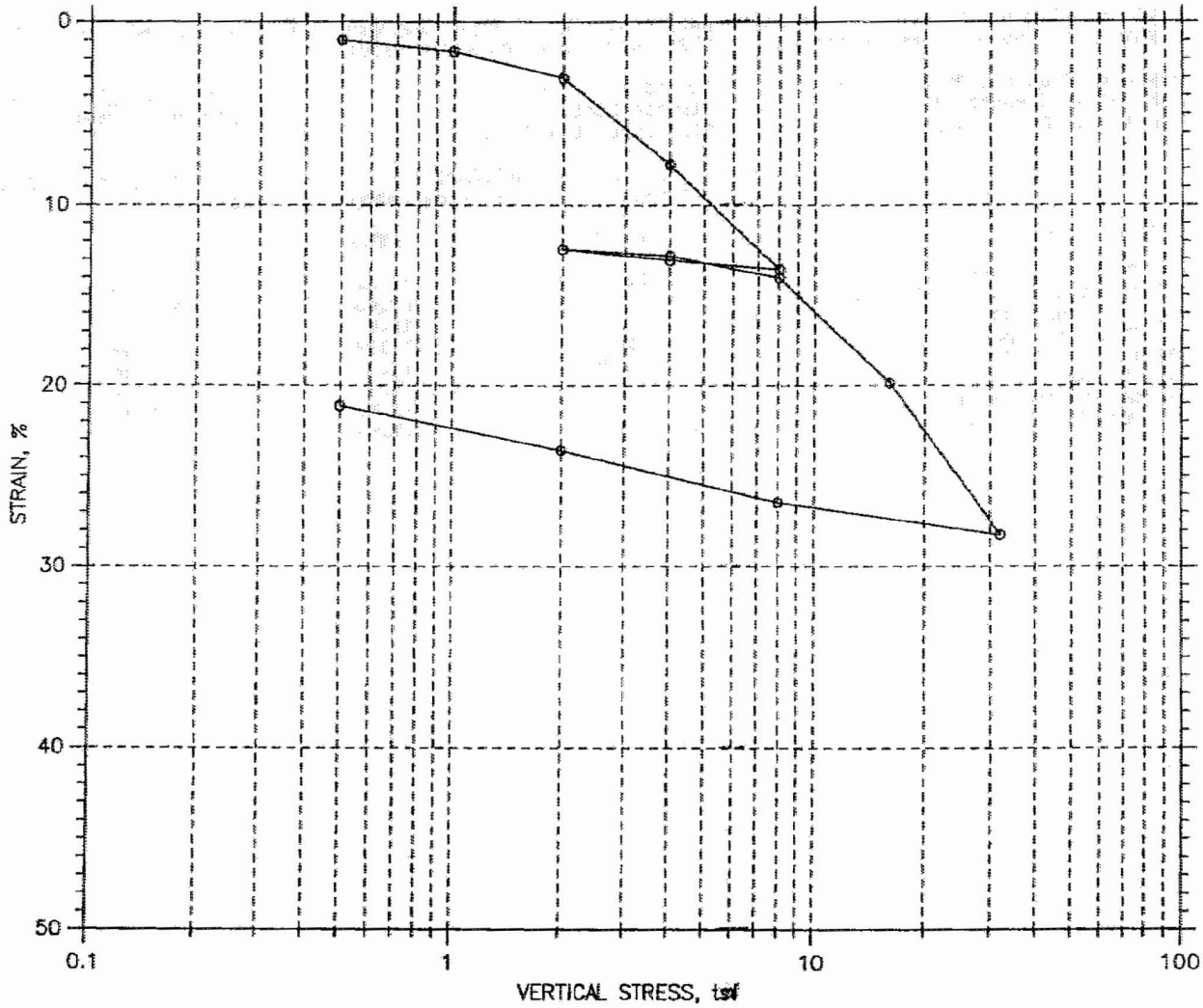
CONSOLIDATION TEST DATA
SUMMARY REPORT



					Before Test	After Test
Overburden Pressure: ---				Water Content, %	41.44	32.84
Preconsolidation Pressure: 4 tsf				Dry Unit Weight, pcf	71.55	90.72
Compression Index: ---				Saturation, %	80.82	99.99
Diameter: 2.5 in		Height: 1 in		Void Ratio	1.43	0.91
LL: 51	PL: 15	PI: 36	GS: 2.78			

GeoTesting express a subsidiary of Geocomp Corporation	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: 09/26/06	Depth: 68-70
	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		

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CONSOLIDATION TEST DATA

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: 09/26/06	Depth: 68-70
Test No.: C-30	Sample Type: tube	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	Liquid Limit: 51	Initial Height: 1.00 in
Initial Void Ratio: 1.43	Plastic Limit: 15	Specimen Diameter: 2.50 in
Final Void Ratio: 0.91	Plasticity Index: 36	

	Before Consolidation		After Consolidation	
	Trimmings	Specimen+Ring	Specimen+Ring	Trimmings
Container ID	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	41.44	32.84	32.84
Void Ratio	---	1.43	0.91	---
Degree of Saturation, %	---	80.82	99.99	---
Dry Unit Weight, pcf	---	71.55	90.72	---