

# *Attachment E*

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## **Geotechnical Lab Reports**

**LABORATORY TEST REPORT**

August 25, 2004

Project No. 2004-221-01

Mr. Pat Foos  
Blasland, Bouck, & Lee, Inc.  
6723 Towpath Road  
Syracuse, NY 13214

RE: Soils Testing - GEHR Treatability 204.302

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Transmitted herein are the results of the soils testing performed for the above referenced project and verified on the Project Verification Form, submitted July 21, 2004. The testing was performed in general accordance with the ASTM methods listed on the enclosed data sheets. The remaining sample materials for this project will be retained for a minimum of 90 days as directed by the Geotechnics' Quality Program.

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**Disclaimer**

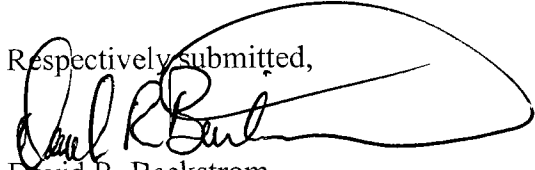
The test results are believed to be representative of the samples submitted but are indicative only of the specimens which were evaluated. Geotechnics has no direct knowledge of the origin of the samples, implies no position with regard to the disposition of the test results, i.e. pass/fail, and makes no claims as to the suitability of the material for its intended use.

The test data and all associated project information provided shall be held in strict confidence and disclosed to other parties only with authorization of the Client and Geotechnics. The test data submitted herein is considered integral with this report and is not to be reproduced except in whole and only with the authorization of the Client and Geotechnics.

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We are pleased to provide these testing services. Should you have any questions or if we may be of further assistance, please do not hesitate to contact our office.

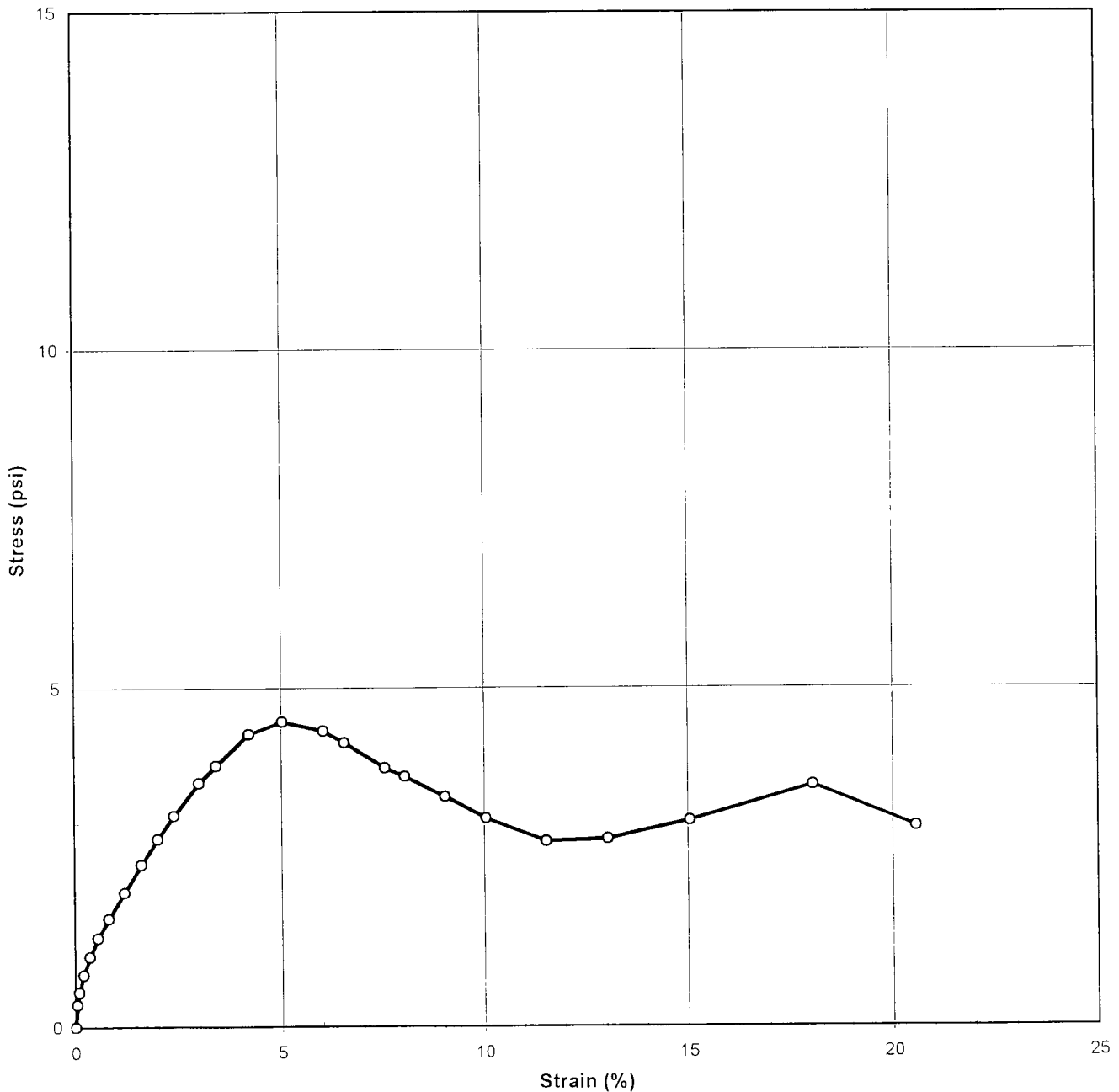
Respectively submitted,



David R. Backstrom  
Laboratory Director

**UNCONFINED COMPRESSIVE STRENGTH**  
ASTM D2166-00 (SOP S-30)

Client	BLASLAND, BOUCK, & LEE	Boring No	NA
Client Reference	GEHR TREATABILITY 204 302	Depth (ft.)	NA
Project No.	2004-221-01	Sample No	SS26
Lab ID	2004-221-01-01	Visual	BROWN STABILIZED SLUDGE



Tested By JCM

Date 07/28/04

Approved By DB

Date 8/6/04

**UNCONFINED COMPRESSIVE STRENGTH**  
ASTM D2166-00 (SOP S-30)



Client BLASLAND, BOUCK, & LEE  
 Client Reference GEHR TREATABILITY  
 Project No 2004-221-01  
 Lab ID 2004-221-01-01

Boring No. NA  
 Depth (ft.) NA  
 Sample No. SS26  
 Visual BROWN STABILIZED SLUDGE

INITIAL SAMPLE DIMENSIONS			
Length 1(in)	3.806	Top Dia. (in)	1.949
Length 2(in)	3.825	Mid. Dia. (in)	1.975
Length 3(in)	3.744	Bot. Dia. (in)	1.911
Avg.Length(in)	3.792	Area (in.^2)	2.971

WATER CONTENT AFTER TEST	
Tare No.	586
Wt. Tare + WS (gms)	387.67
Wt. Tare + DS.(gms)	292.05
Wt of Tare(gms)	82.50
% Moisture	45.63

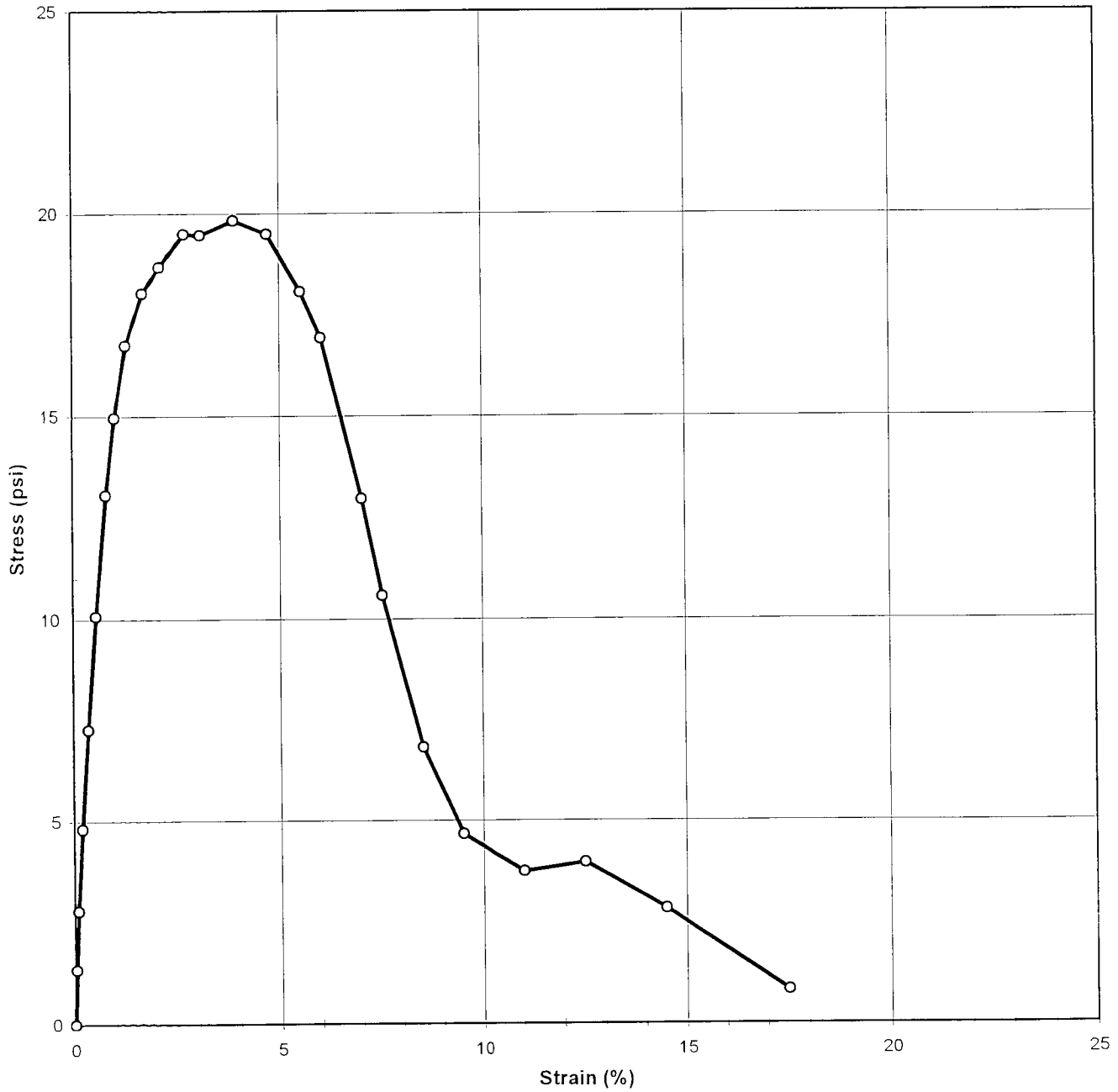
UNIT WEIGHT			
Wt. Tube & WS.(gms.)	305.8	Sample Volume(cc.)	184.6
Wt Of Tube(gms.)	0.0	Unit Wet Wt.(gms/cc)	1.66
Wt Of WS.(gms.)	305.75	Unit Wet Wt.(pcf.)	103.35
Diameter (in.)	1.95	Moisture Content, %	45.63
Length (in.)	3.79	Unit Dry Wt.(pcf.)	70.96
Length (cm.)	9.63		

DEFORMATION (in)	LOAD (lbs)	ELAPSED TIME (min.)	STRAIN (%)	STRESS (psi)
0.000	0.7	0.00	0.00	0.00
0.002	1.7	0.07	0.04	0.33
0.004	2.2	0.12	0.10	0.52
0.008	3.0	0.25	0.20	0.77
0.013	3.8	0.43	0.35	1.04
0.021	4.6	0.70	0.55	1.32
0.031	5.5	1.02	0.81	1.61
0.046	6.7	1.50	1.20	1.99
0.061	7.9	2.00	1.61	2.40
0.076	9.1	2.50	2.00	2.77
0.091	10.2	3.00	2.41	3.11
0.114	11.7	3.75	3.01	3.59
0.129	12.6	4.25	3.41	3.85
0.160	14.1	5.25	4.21	4.32
0.190	14.8	6.27	5.02	4.50
0.229	14.5	7.52	6.03	4.37
0.248	14.0	8.15	6.54	4.19
0.286	13.0	9.40	7.54	3.82
0.305	12.6	10.02	8.04	3.69
0.343	11.8	11.27	9.04	3.39
0.381	10.8	12.52	10.04	3.07
0.438	9.9	14.40	11.55	2.73
0.495	10.1	16.27	13.05	2.75
0.571	11.3	18.77	15.05	3.02
0.685	13.6	22.52	18.06	3.56
0.780	11.7	25.65	20.57	2.93

Tested By JCM Date 07/28/04 Input Checked By *JM* Date *8/6/04*

**UNCONFINED COMPRESSIVE STRENGTH**  
ASTM D2166-00 (SOP S-30)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Reference	GEHR TREATABILITY 204.302	Depth (ft.)	NA
Project No.	2004-221-01	Sample No.	SS29
Lab ID	2004-221-01-02	Visual	BROWN STABILIZED SLUDGE



Tested By JCM

Date 07/28/04 Approved By

DB

Date 8/6/04

**UNCONFINED COMPRESSIVE STRENGTH**  
ASTM D2166-00 (SOP S-30)



Client: BLASLAND, BOUCK, & LEE  
 Client Reference: GEHR TREATABILITY  
 Project No.: 2004-221-01  
 Lab ID: 2004-221-01-02

Boring No.: NA  
 Depth (ft.): NA  
 Sample No.: SS29  
 Visual: BROWN STABILIZED SLUDGE

INITIAL SAMPLE DIMENSIONS			
Length 1(in)	3.642	Top Dia. (in)	1.975
Length 2(in)	3.628	Mid. Dia. (in)	2.004
Length 3(in)	3.657	Bot Dia. (in)	2.005
Avg.Length(in)	3.642	Area (in ^2)	3.125

WATER CONTENT AFTER TEST	
Tare No	729
Wt. Tare + WS.(gms)	385.15
Wt. Tare + DS.(gms)	279.36
Wt of Tare(gms)	86.45
% Moisture	54.84

UNIT WEIGHT			
Wt Tube & WS.(gms.)	299.52	Sample Volume(cc.)	186.5
Wt Of Tube(gms.)	0.0	Unit Wet Wt.(gms/cc)	1.61
Wt. Of WS.(gms.)	299.52	Unit Wet Wt.(pcf.)	100.21
Diameter (in.)	1.99	Moisture Content, %	54.84
Length (in )	3.64	Unit Dry Wt (pcf.)	64.72
Length (cm.)	9.25		

DEFORMATION (in)	LOAD (lbs)	ELAPSED TIME (min.)	STRAIN (%)	STRESS (psi)
0.000	3.5	0.00	0.00	0.00
0.002	7.8	0.07	0.04	1.36
0.003	12.3	0.13	0.10	2.80
0.007	18.6	0.25	0.20	4.81
0.013	26.3	0.45	0.35	7.26
0.020	35.2	0.70	0.55	10.08
0.029	44.7	1.02	0.81	13.05
0.037	50.8	1.27	1.01	14.96
0.047	56.6	1.63	1.30	16.75
0.062	60.9	2.13	1.70	18.04
0.077	63.2	2.63	2.10	18.69
0.099	66.2	3.38	2.70	19.50
0.113	66.3	3.88	3.10	19.47
0.142	68.0	4.88	3.91	19.83
0.171	67.5	5.88	4.71	19.50
0.201	63.4	6.90	5.51	18.08
0.219	59.9	7.53	6.02	16.95
0.255	47.1	8.78	7.01	12.97
0.274	39.3	9.40	7.51	10.58
0.310	26.8	10.65	8.52	6.82
0.346	19.7	11.90	9.51	4.67
0.401	16.7	13.78	11.02	3.74
0.456	17.7	15.65	12.51	3.97
0.529	13.9	18.15	14.51	2.83
0.638	6.7	21.90	17.51	0.83

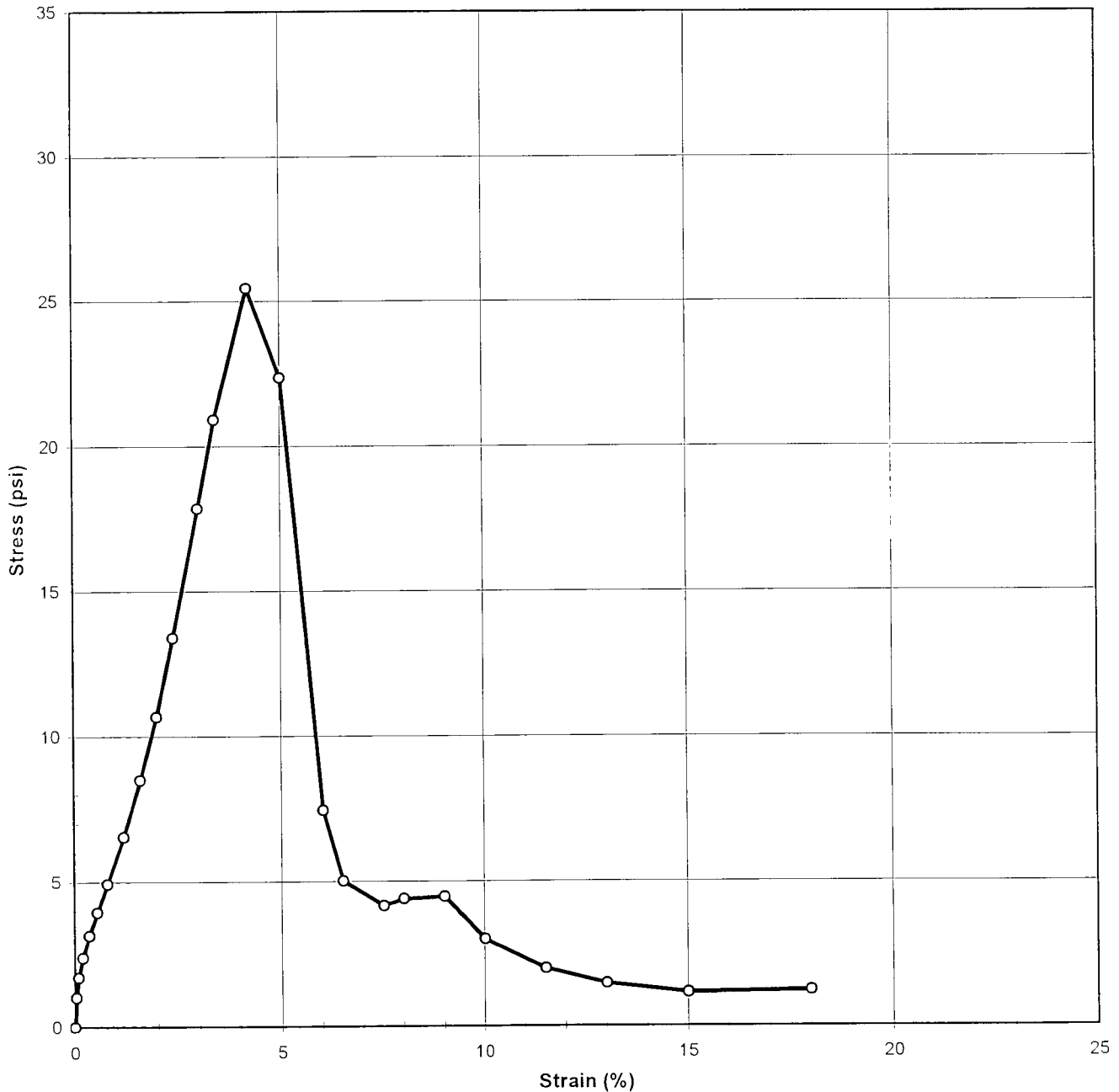
Tested By JCM

Date 07/28/04 Input Checked By *JM*

Date 8/6/04

**UNCONFINED COMPRESSIVE STRENGTH**  
ASTM D2166-00 (SOP S-30)

Client	BLASLAND, BOUCK, & LEE	Boring No	NA
Client Reference	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-01	Sample No.	SS09
Lab ID	2004-221-01-03	Visual	GRAY STABILIZED SLUDGE



Tested By JCM      Date 07/29/04      Approved By *DB*      Date *8/6/04*

**UNCONFINED COMPRESSIVE STRENGTH**  
ASTM D2166-00 (SOP S-30)



Client BLASLAND, BOUCK, & LEE  
 Client Reference GEHR TREATABILITY  
 Project No. 2004-221-01  
 Lab ID 2004-221-01-03

Boring No. NA  
 Depth (ft) NA  
 Sample No SS09  
 Visual GRAY STABILIZED SLUDGE

INITIAL SAMPLE DIMENSIONS			
Length 1(in)	3.982	Top Dia. (in)	1.977
Length 2(in)	3.905	Mid. Dia. (in)	1.975
Length 3(in)	4.010	Bot Dia. (in)	1.975
Avg Length(in)	3.966	Area (in ^2)	3.066

WATER CONTENT AFTER TEST	
Tare No.	728
Wt Tare + WS.(gms)	470.79
Wt. Tare + DS (gms)	406.90
Wt. of Tare(gms)	86.43
% Moisture	19.94

UNIT WEIGHT			
Wt Tube & WS (gms.)	385.6	Sample Volume(cc)	199.2
Wt Of Tube(gms.)	0.0	Unit Wet Wt.(gms/cc)	1.94
Wt Of WS.(gms.)	385.61	Unit Wet Wt.(pcf.)	120.78
Diameter (in.)	1.98	Moisture Content, %	19.94
Length (in.)	3.97	Unit Dry Wt (pcf.)	100.70
Length (cm)	10.07		

DEFORMATION (in)	LOAD (lbs)	ELAPSED TIME (min.)	STRAIN (%)	STRESS (psi)
0.000	2.9	0.00	0.00	0.00
0.002	6.1	0.07	0.04	1.03
0.004	8.1	0.12	0.10	1.70
0.008	10.2	0.25	0.20	2.39
0.014	12.6	0.43	0.35	3.15
0.022	15.1	0.70	0.55	3.95
0.032	18.1	1.02	0.81	4.93
0.048	23.2	1.50	1.20	6.53
0.064	29.4	2.00	1.61	8.50
0.079	36.3	2.50	2.00	10.67
0.095	45.0	3.00	2.41	13.40
0.119	59.4	3.75	3.01	17.86
0.135	69.3	4.27	3.41	20.91
0.167	84.4	5.27	4.21	25.45
0.199	75.0	6.27	5.01	22.35
0.239	27.2	7.52	6.02	7.44
0.259	19.4	8.15	6.52	5.01
0.298	16.6	9.40	7.52	4.14
0.318	17.6	10.02	8.02	4.40
0.358	17.9	11.27	9.02	4.46
0.397	13.1	12.52	10.02	3.00
0.457	9.8	14.40	11.52	1.98
0.516	8.0	16.27	13.01	1.45
0.595	7.0	18.77	15.02	1.14
0.714	7.5	22.52	18.01	1.23

Tested By JCM

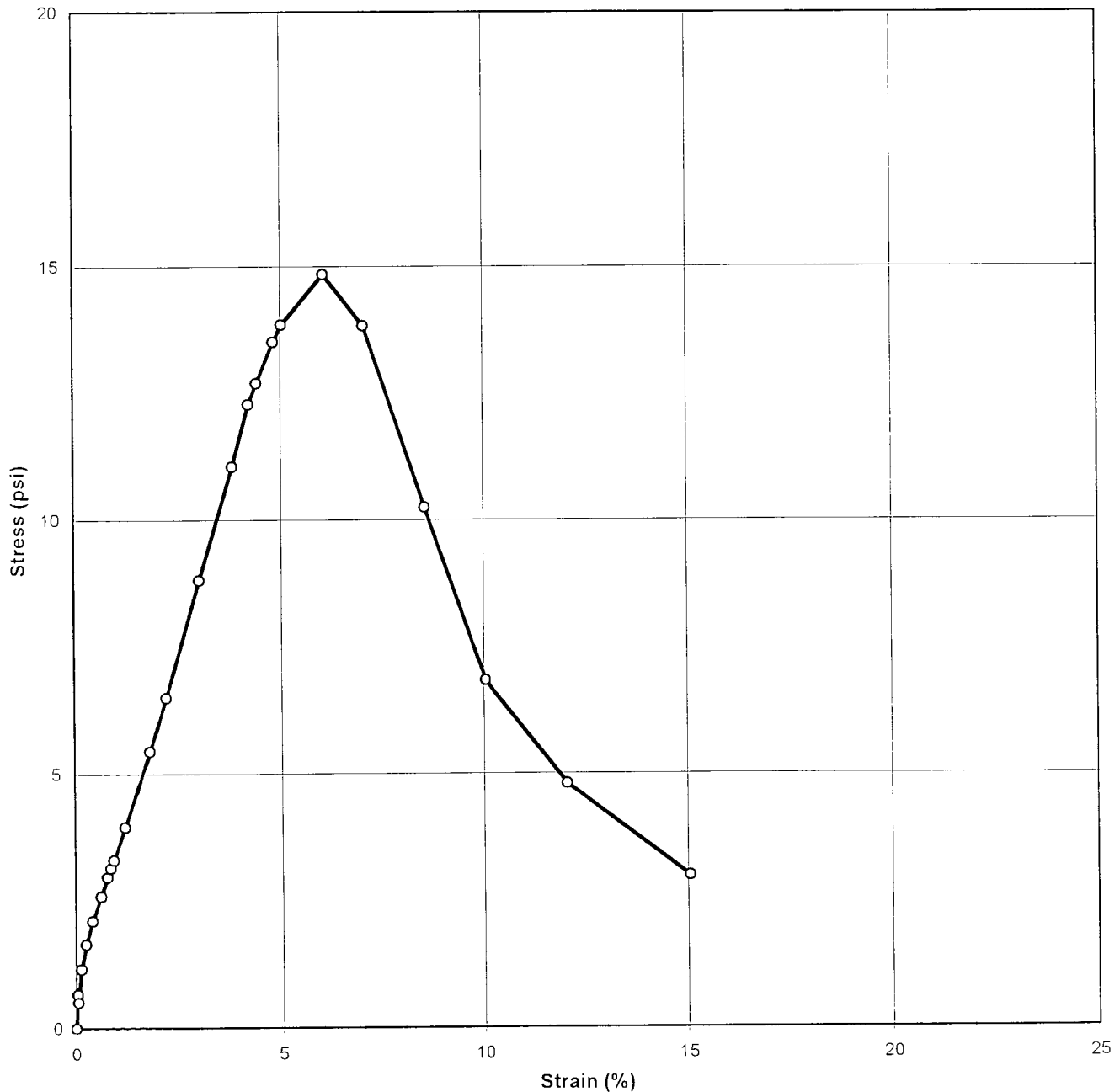
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Date *8/6/04*



**UNCONFINED COMPRESSIVE STRENGTH**  
ASTM D2166-00 (SOP S-30)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Reference	GEHR TREATABILITY 204.302	Depth (ft.)	NA
Project No.	2004-221-01	Sample No.	SS02
Lab ID	2004-221-01-04	Visual	GRAY STABILIZED SLUDGE



Tested By JCM

Date 07/28/04 Approved By DB

Date 8/6/04

**UNCONFINED COMPRESSIVE STRENGTH**  
ASTM D2166-00 (SOP S-30)



Client BLASLAND, BOUCK, & LEE  
 Client Reference GEHR TREATABILITY  
 Project No. 2004-221-01  
 Lab ID 2004-221-01-04

Boring No NA  
 Depth (ft.) NA  
 Sample No. SS02  
 Visual GRAY STABILIZED SLUDGE

INITIAL SAMPLE DIMENSIONS			
Length 1(in)	4.093	Top Dia. (in)	1.978
Length 2(in)	4.074	Mid. Dia. (in)	1.964
Length 3(in)	4.054	Bot Dia. (in)	1.965
Avg Length(in)	4.074	Area (in.^2)	3.045

WATER CONTENT AFTER TEST	
Tare No	1710
Wt. Tare + WS.(gms)	493.86
Wt. Tare + DS.(gms)	425.10
Wt. of Tare(gms)	82.52
% Moisture	20.07

UNIT WEIGHT			
Wt Tube & WS.(gms)	412.3	Sample Volume(cc.)	203.3
Wt Of Tube(gms.)	0.0	Unit Wet Wt.(gms/cc)	2.03
Wt. Of WS.(gms.)	412.27	Unit Wet Wt.(pcf.)	126.56
Diameter (in.)	1.97	Moisture Content, %	20.07
Length (in.)	4.07	Unit Dry Wt.(pcf.)	105.40
Length (cm.)	10.35		

DEFORMATION (in)	LOAD (lbs)	ELAPSED TIME (min.)	STRAIN (%)	STRESS (psi)
0.000	2.3	0.00	0.00	0.00
0.002	4.3	0.05	0.04	0.66
0.002	3.8	0.12	0.05	0.51
0.005	5.8	0.22	0.13	1.16
0.010	7.3	0.37	0.25	1.65
0.017	8.7	0.57	0.41	2.10
0.025	10.2	0.82	0.62	2.59
0.032	11.4	1.02	0.78	2.98
0.035	12.0	1.13	0.86	3.15
0.038	12.5	1.23	0.94	3.31
0.050	14.5	1.58	1.22	3.96
0.074	19.2	2.33	1.82	5.44
0.090	22.5	2.83	2.21	6.49
0.123	29.9	3.83	3.02	8.80
0.156	37.3	4.83	3.82	11.05
0.172	41.3	5.33	4.22	12.28
0.180	42.7	5.58	4.42	12.69
0.197	45.5	6.08	4.82	13.50
0.205	46.6	6.33	5.02	13.84
0.246	50.4	7.62	6.05	14.84
0.287	47.6	8.87	7.05	13.83
0.348	36.4	10.75	8.55	10.24
0.410	25.4	12.62	10.05	6.83
0.491	18.9	15.12	12.05	4.79
0.613	13.0	18.87	15.06	2.98

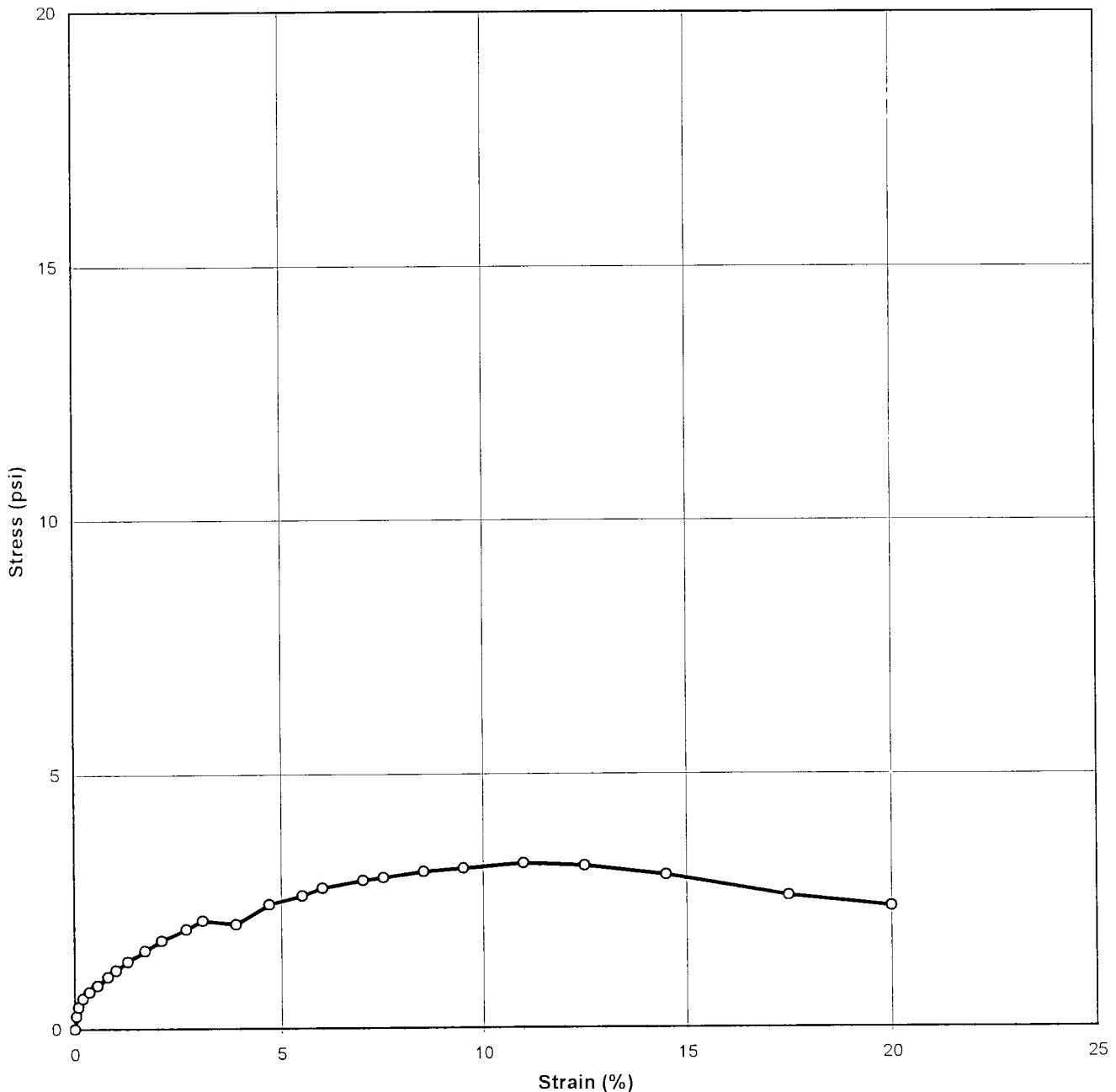
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Date 07/28/04 Input Checked By *JM*

Date 8/6/04

**UNCONFINED COMPRESSIVE STRENGTH**  
ASTM D2166-00 (SOP S-30)

Client	BLASLAND, BOUCK, & LEE	Boring No	NA
Client Reference	GEHR TREATABILITY 204.302	Depth (ft.)	NA
Project No.	2004-221-01	Sample No	SS14
Lab ID	2004-221-01-05	Visual	BROWN STABILIZED SLUDGE



Tested By JCM

Date 07/28/04

Approved By *DB*

Date *8/6/04*

**UNCONFINED COMPRESSIVE STRENGTH**  
ASTM D2166-00 (SOP S-30)



Client BLASLAND, BOUCK, & LEE  
 Client Reference GEHR TREATABILITY  
 Project No. 2004-221-01  
 Lab ID 2004-221-01-05

Boring No. NA  
 Depth (ft.) NA  
 Sample No SS14  
 Visual BROWN STABILIZED SLUDGE

INITIAL SAMPLE DIMENSIONS			
Length 1(in)	3.896	Top Dia. (in)	1.976
Length 2(in)	3.947	Mid. Dia. (in)	1.982
Length 3(in)	3.934	Bot. Dia (in)	1.957
Avg.Length(in)	3.926	Area (in.^2)	3.053

WATER CONTENT AFTER TEST	
Tare No.	575
Wt. Tare + WS (gms)	412.69
Wt. Tare + DS.(gms)	296.25
Wt. of Tare(gms)	82.83
% Moisture	54.56

UNIT WEIGHT			
Wt. Tube & WS.(gms.)	330.5	Sample Volume(cc)	196.4
Wt. Of Tube(gms)	0.0	Unit Wet Wt.(gms/cc)	1.68
Wt. Of WS.(gms)	330.51	Unit Wet Wt.(pcf)	105.00
Diameter (in.)	1.97	Moisture Content, %	54.56
Length (in.)	3.93	Unit Dry Wt.(pcf.)	67.94
Length (cm.)	9.97		

DEFORMATION (in)	LOAD (lbs)	ELAPSED TIME (min.)	STRAIN (%)	STRESS (psi)
0.000	2.0	0.00	0.00	0.00
0.002	2.8	0.07	0.05	0.25
0.004	3.3	0.13	0.10	0.44
0.008	3.8	0.25	0.20	0.60
0.014	4.2	0.45	0.35	0.73
0.022	4.6	0.70	0.55	0.86
0.032	5.1	1.02	0.81	1.02
0.039	5.5	1.27	1.01	1.15
0.051	6.1	1.63	1.30	1.32
0.067	6.8	2.13	1.70	1.54
0.083	7.4	2.63	2.10	1.74
0.106	8.1	3.38	2.71	1.96
0.122	8.7	3.88	3.10	2.12
0.153	8.5	4.88	3.90	2.06
0.185	9.8	5.88	4.71	2.44
0.216	10.4	6.90	5.51	2.62
0.236	10.9	7.53	6.02	2.76
0.275	11.6	8.78	7.01	2.91
0.295	11.8	9.40	7.51	2.97
0.334	12.3	10.65	8.51	3.08
0.373	12.6	11.90	9.51	3.15
0.432	13.1	13.78	11.01	3.23
0.491	13.1	15.65	12.51	3.18
0.570	12.7	18.15	14.51	3.00
0.687	11.6	21.90	17.50	2.60
0.785	11.1	25.03	20.00	2.38

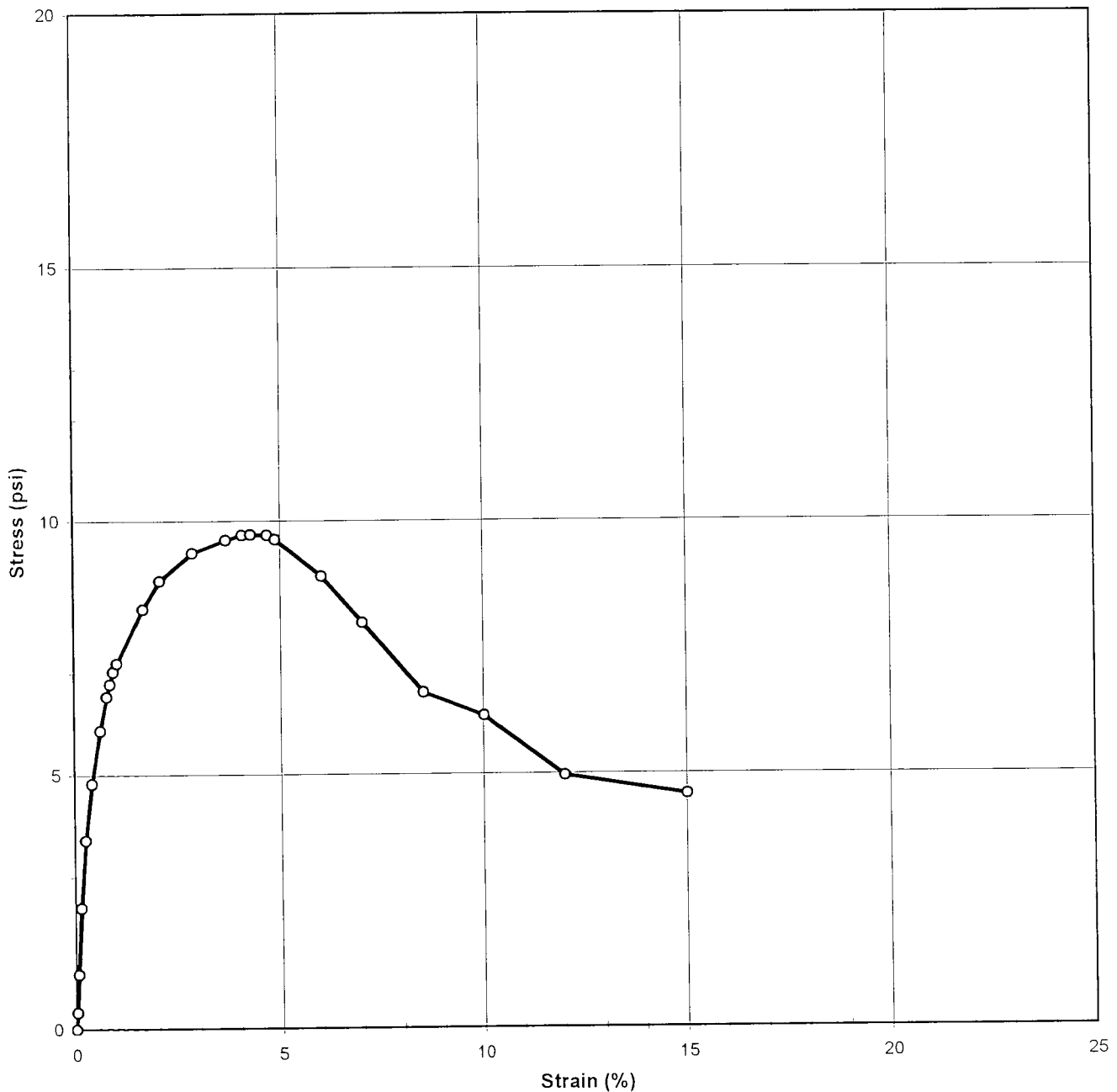
Tested By JCM

Date 07/28/04 Input Checked By *JM*

Date 8/6/04

**UNCONFINED COMPRESSIVE STRENGTH**  
ASTM D2166-00 (SOP S-30)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Reference	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-01	Sample No.	SS48
Lab ID	2004-221-01-06	Visual	DARK GRAY STABILIZED SLUDGE



Tested By JCM

Date 07/28/04 Approved By *DB*

Date *8/6/04*

**UNCONFINED COMPRESSIVE STRENGTH**  
ASTM D2166-00 (SOP S-30)



Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Reference	GEHR TREATABILITY	Depth (ft.)	NA
Project No	2004-221-01	Sample No	SS48
Lab ID	2004-221-01-06	Visual	DARK GRAY STABILIZED SLUDGE

INITIAL SAMPLE DIMENSIONS			
Length 1(in)	3.855	Top Dia. (in)	2.003
Length 2(in)	3.870	Mid. Dia. (in)	2.010
Length 3(in)	3.881	Bot. Dia. (in)	1.988
Avg Length(in)	3.869	Area (in. <sup>2</sup> )	3.143

WATER CONTENT AFTER TEST	
Tare No.	1711
Wt. Tare + WS (gms)	357.29
Wt. Tare + DS (gms)	234.77
Wt. of Tare(gms)	83.43
% Moisture	80.96

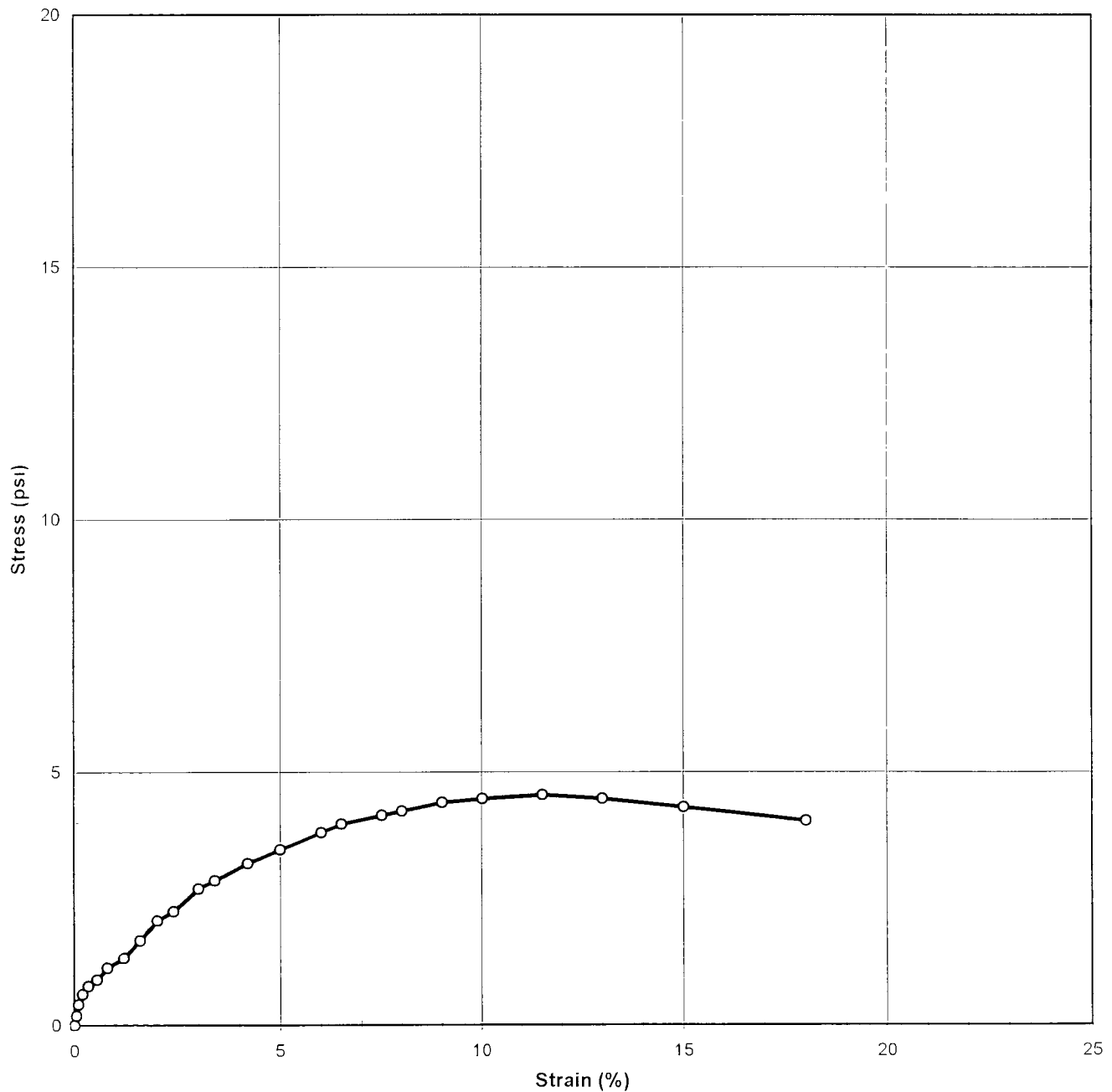
UNIT WEIGHT			
Wt. Tube & WS.(gms.)	277.8	Sample Volume(cc)	199.2
Wt. Of Tube(gms )	0.0	Unit Wet Wt.(gms/cc)	1.39
Wt. Of WS (gms )	277.75	Unit Wet Wt.(pcf.)	86.99
Diameter (in.)	2.00	Moisture Content, %	80.96
Length (in )	3.87	Unit Dry Wt (pcf.)	48.07
Length (cm.)	9.83		

DEFORMATION (in)	LOAD (lbs)	ELAPSED TIME (min.)	STRAIN (%)	STRESS (psi)
0.000	1.9	0.00	0.00	0.00
0.001	2.9	0.13	0.03	0.33
0.003	5.3	0.18	0.07	1.08
0.006	9.4	0.28	0.15	2.39
0.010	13.6	0.43	0.27	3.71
0.017	17.1	0.63	0.43	4.83
0.024	20.4	0.88	0.63	5.86
0.031	22.6	1.08	0.79	6.52
0.034	23.4	1.18	0.87	6.77
0.037	24.2	1.28	0.96	7.01
0.040	24.7	1.38	1.04	7.19
0.065	28.3	2.18	1.67	8.25
0.080	30.2	2.68	2.08	8.82
0.111	32.2	3.68	2.88	9.36
0.142	33.3	4.70	3.68	9.62
0.158	33.8	5.20	4.08	9.72
0.166	33.8	5.45	4.28	9.73
0.181	33.9	5.95	4.68	9.71
0.189	33.7	6.20	4.88	9.63
0.233	31.7	7.62	6.01	8.90
0.272	28.9	8.87	7.02	7.98
0.329	24.6	10.73	8.51	6.60
0.388	23.3	12.62	10.02	6.14
0.465	19.6	15.12	12.02	4.95
0.581	18.9	18.87	15.02	4.58

Tested By JCM Date 07/28/04 Input Checked By *ju* Date 8/6/04

**UNCONFINED COMPRESSIVE STRENGTH**  
ASTM D2166-00 (SOP S-30)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Reference	GEHR TREATABILITY 204 302	Depth (ft)	NA
Project No.	2004-221-01	Sample No	SS50
Lab ID	2004-221-01-07	Visual	BROWN STABILIZED SLUDGE



Tested By JCM

Date 07/28/04

Approved By *DB*

Date *8/6/04*

**UNCONFINED COMPRESSIVE STRENGTH**  
ASTM D2166-00 (SOP S-30)



Client BLASLAND, BOUCK, & LEE  
 Client Reference GEHR TREATABILITY  
 Project No 2004-221-01  
 Lab ID 2004-221-01-07

Boring No. NA  
 Depth (ft.) NA  
 Sample No. SS50  
 Visual BROWN STABILIZED SLUDGE

INITIAL SAMPLE DIMENSIONS			
Length 1(in)	3.779	Top Dia. (in)	1.927
Length 2(in)	3.794	Mid. Dia. (in)	1.897
Length 3(in)	3.787	Bot Dia. (in)	1.953
Avg Length(in)	3.787	Area (in.^2)	2.912

WATER CONTENT AFTER TEST	
Tare No	1691
Wt. Tare + WS (gms)	356.69
Wt. Tare + DS (gms)	228.85
Wt. of Tare(gms)	83.45
% Moisture	87.92

UNIT WEIGHT			
Wt Tube & WS.(gms.)	273.6	Sample Volume(cc.)	180.7
Wt Of Tube(gms.)	0.0	Unit Wet Wt.(gms/cc)	1.51
Wt Of WS.(gms )	273.56	Unit Wet Wt.(pcf )	94.46
Diameter (in )	1.93	Moisture Content, %	87.92
Length (in )	3.79	Unit Dry Wt (pcf.)	50.26
Length (cm.)	9.62		

DEFORMATION (in)	LOAD (lbs)	ELAPSED TIME (min.)	STRAIN (%)	STRESS (psi)
0.000	1.2	0.00	0.00	0.00
0.002	1.7	0.07	0.05	0.19
0.004	2.4	0.13	0.10	0.41
0.008	3.0	0.25	0.20	0.61
0.013	3.5	0.45	0.35	0.77
0.021	3.8	0.70	0.55	0.90
0.031	4.5	1.02	0.81	1.13
0.045	5.1	1.50	1.20	1.33
0.061	6.2	2.00	1.60	1.67
0.076	7.3	2.52	2.01	2.06
0.091	7.9	3.02	2.40	2.25
0.114	9.3	3.77	3.00	2.68
0.129	9.8	4.27	3.41	2.85
0.159	10.9	5.27	4.20	3.19
0.189	11.8	6.27	5.00	3.46
0.228	13.0	7.53	6.01	3.80
0.247	13.6	8.15	6.52	3.97
0.285	14.2	9.40	7.52	4.14
0.304	14.6	10.03	8.02	4.23
0.342	15.3	11.28	9.02	4.39
0.379	15.7	12.53	10.02	4.47
0.436	16.2	14.40	11.52	4.54
0.493	16.1	16.28	13.01	4.46
0.569	15.9	18.78	15.02	4.29
0.682	15.5	22.53	18.02	4.04

Tested By JCM

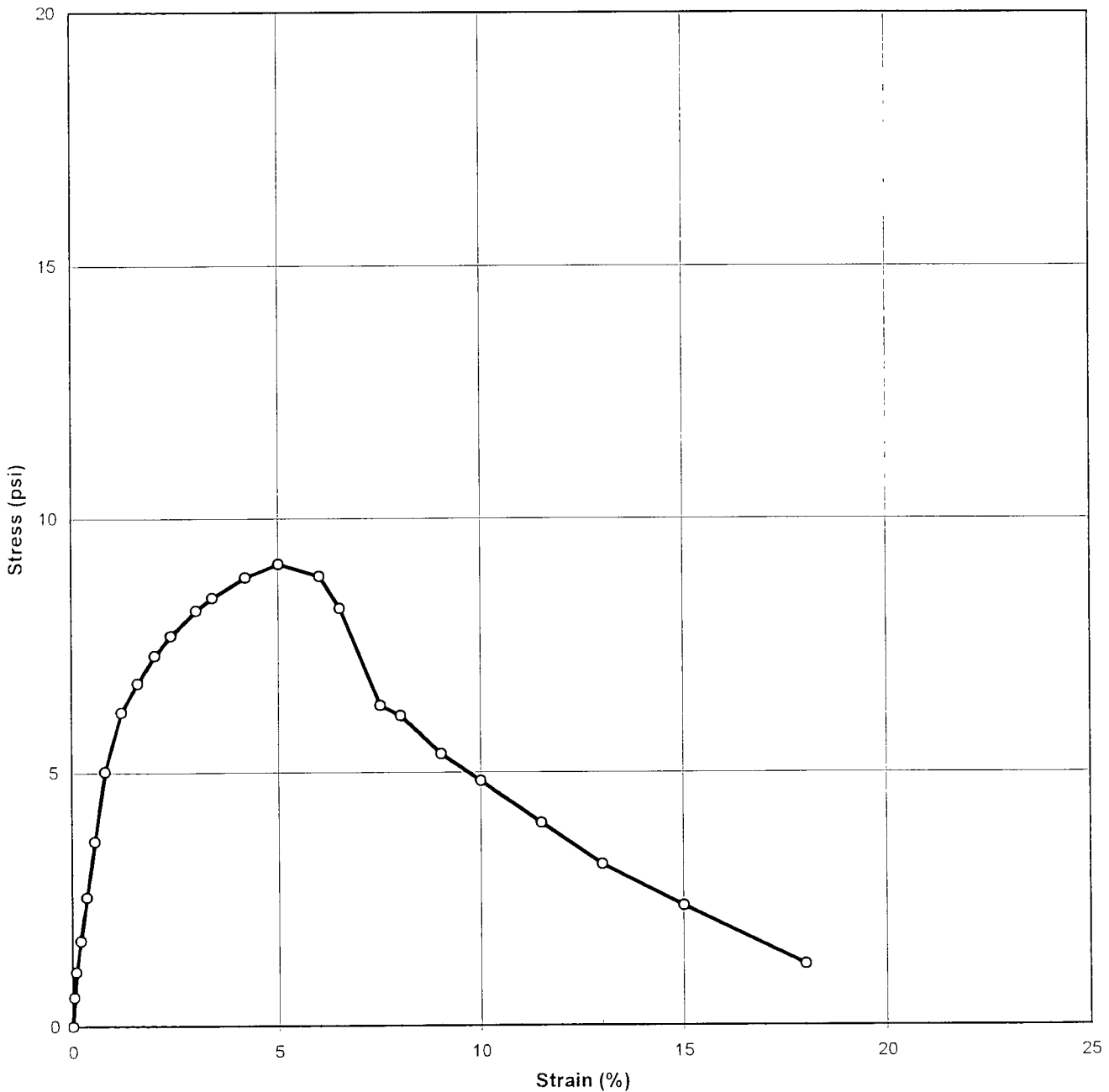
Date 07/28/04 Input Checked By *JM*

Date 8/6/04



**UNCONFINED COMPRESSIVE STRENGTH**  
ASTM D2166-00 (SOP S-30)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Reference	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-01	Sample No.	SS17
Lab ID	2004-221-01-08	Visual	BROWN STABILIZED SLUDGE



Tested By JCM

Date 07/28/04 Approved By

DB

Date

8/6/04

**UNCONFINED COMPRESSIVE STRENGTH**  
ASTM D2166-00 (SOP S-30)



Client: BLASLAND, BOUCK, & LEE  
 Client Reference: GEHR TREATABILITY  
 Project No.: 2004-221-01  
 Lab ID: 2004-221-01-08

Boring No.: NA  
 Depth (ft): NA  
 Sample No.: SS17  
 Visual: BROWN STABILIZED SLUDGE

INITIAL SAMPLE DIMENSIONS			
Length 1(in)	3.554	Top Dia. (in)	1.970
Length 2(in)	3.556	Mid. Dia. (in)	1.954
Length 3(in)	3.559	Bot. Dia. (in)	1.964
Avg.Length(in)	3.556	Area (in.^2)	3.025

WATER CONTENT AFTER TEST	
Tare No.	785
Wt Tare + WS.(gms)	368.34
Wt Tare + DS (gms)	261.99
Wt of Tare(gms)	85.46
% Moisture	60.24

UNIT WEIGHT			
Wt. Tube & WS (gms.)	283.6	Sample Volume(cc.)	176.3
Wt. Of Tube(gms )	0.0	Unit Wet Wt.(gms/cc)	1.61
Wt Of WS.(gms )	283.61	Unit Wet Wt.(pcf.)	100.37
Diameter (in.)	1.96	Moisture Content, %	60.24
Length (in )	3.56	Unit Dry Wt.(pcf.)	62.64
Length (cm.)	9.03		

DEFORMATION (in)	LOAD (lbs)	ELAPSED TIME (min.)	STRAIN (%)	STRESS (psi)
0.000	0.9	0.00	0.00	0.00
0.002	2.7	0.05	0.04	0.57
0.003	4.2	0.12	0.10	1.07
0.007	6.0	0.25	0.20	1.68
0.013	8.6	0.43	0.35	2.54
0.020	12.0	0.68	0.55	3.64
0.029	16.2	1.00	0.81	5.01
0.043	19.8	1.50	1.20	6.18
0.057	21.7	2.00	1.60	6.75
0.071	23.4	2.50	2.00	7.29
0.086	24.7	3.00	2.40	7.68
0.107	26.4	3.75	3.01	8.18
0.121	27.3	4.25	3.40	8.43
0.149	28.8	5.25	4.20	8.84
0.178	29.9	6.25	5.01	9.10
0.214	29.4	7.52	6.02	8.85
0.232	27.5	8.15	6.52	8.22
0.267	21.5	9.40	7.51	6.30
0.285	21.0	10.02	8.01	6.11
0.321	18.7	11.27	9.02	5.36
0.356	17.2	12.52	10.01	4.83
0.410	14.6	14.40	11.52	3.99
0.463	12.0	16.27	13.01	3.17
0.534	9.3	18.77	15.01	2.35
0.641	5.3	22.52	18.01	1.20

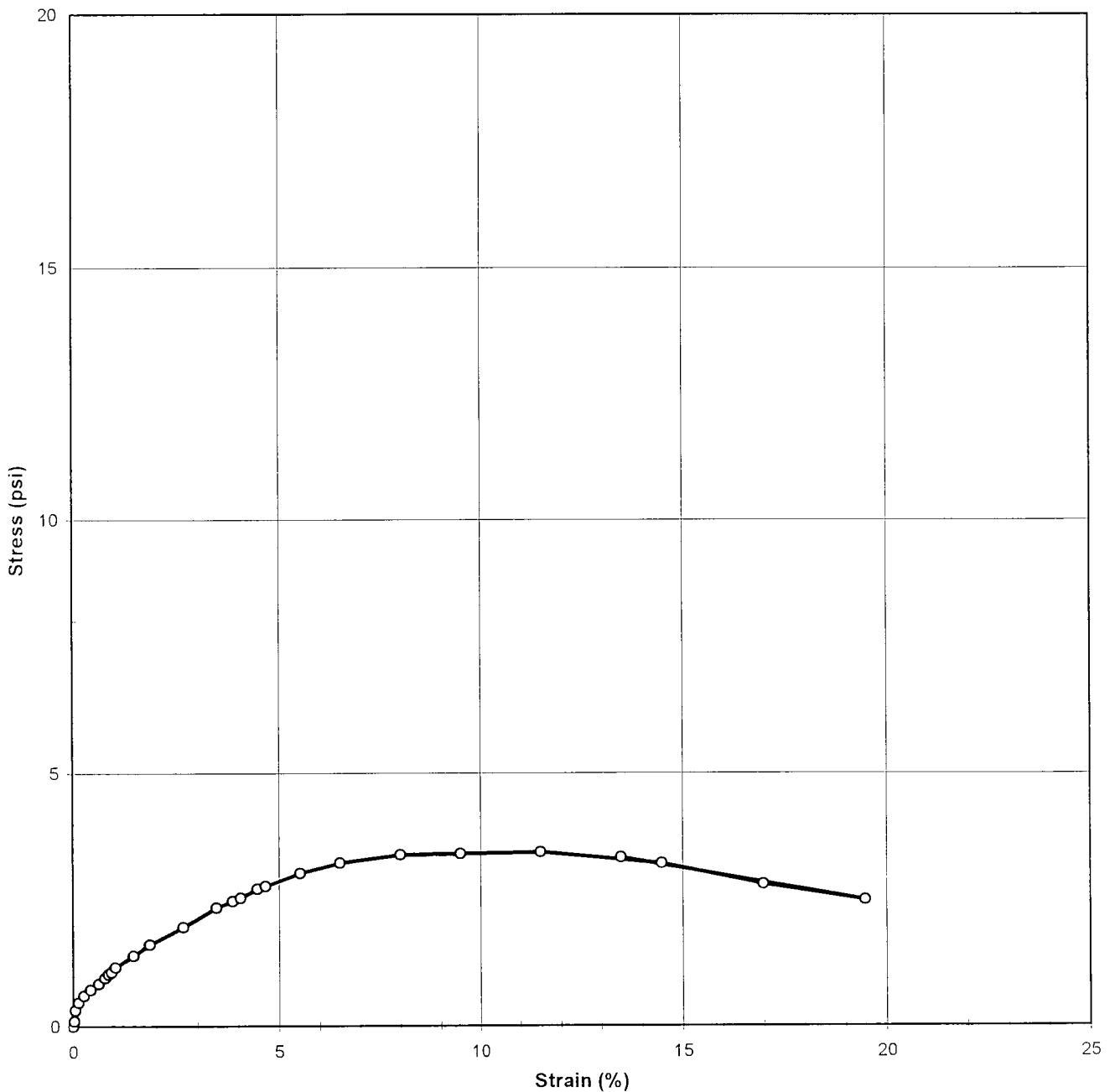
Tested By JCM

Date 07/28/04 Input Checked By *JM*

Date 8/6/04

**UNCONFINED COMPRESSIVE STRENGTH**  
ASTM D2166-00 (SOP S-30)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Reference	GEHR TREATABILITY 204.302	Depth (ft.)	NA
Project No.	2004-221-01	Sample No.	SS14-DUP
Lab ID	2004-221-01-09	Visual	GRAY STABILIZED SLUDGE



Tested By JCM

Date 07/28/04 Approved By

DB

Date 8/6/04

**UNCONFINED COMPRESSIVE STRENGTH**  
ASTM D2166-00 (SOP S-30)



Client: BLASLAND, BOUCK, & LEE  
 Client Reference: GEHR TREATABILITY  
 Project No.: 2004-221-01  
 Lab ID: 2004-221-01-09

Boring No.: NA  
 Depth (ft.): NA  
 Sample No.: SS14-DUP  
 Visual: GRAY STABILIZED SLUDGE

INITIAL SAMPLE DIMENSIONS			
Length 1(in)	3.734	Top Dia. (in)	1.962
Length 2(in)	3.706	Mid. Dia. (in)	1.984
Length 3(in)	3.689	Bot Dia. (in)	1.976
Avg Length(in)	3.710	Area (in ^2)	3.060

WATER CONTENT AFTER TEST	
Tare No	1724
Wt. Tare + WS (gms)	385.58
Wt Tare + DS (gms)	281.19
Wt. of Tare(gms)	82.94
% Moisture	52.66

UNIT WEIGHT			
Wt Tube & WS (gms.)	303.5	Sample Volume(cc)	186.0
Wt Of Tube(gms.)	0.0	Unit Wet Wt.(gms/cc)	1.63
Wt Of WS (gms.)	303.51	Unit Wet Wt.(pcf)	101.80
Diameter (in.)	1.97	Moisture Content, %	52.66
Length (in.)	3.71	Unit Dry Wt (pcf)	66.68
Length (cm.)	9.42		

DEFORMATION (in)	LOAD (lbs)	ELAPSED TIME (min.)	STRAIN (%)	STRESS (psi)
0.000	2.1	0.00	0.00	0.00
0.001	2.5	0.10	0.02	0.11
0.002	3.1	0.15	0.06	0.32
0.005	3.6	0.25	0.14	0.47
0.010	4.0	0.40	0.26	0.60
0.016	4.3	0.60	0.42	0.72
0.023	4.7	0.85	0.62	0.84
0.029	5.1	1.05	0.78	0.96
0.032	5.3	1.15	0.86	1.03
0.035	5.4	1.25	0.94	1.07
0.038	5.7	1.35	1.02	1.16
0.054	6.5	1.90	1.46	1.40
0.069	7.2	2.42	1.86	1.62
0.099	8.3	3.42	2.66	1.96
0.129	9.6	4.42	3.47	2.34
0.143	10.0	4.92	3.86	2.47
0.151	10.2	5.17	4.07	2.53
0.166	10.8	5.67	4.47	2.71
0.173	11.0	5.92	4.67	2.77
0.204	11.9	6.97	5.51	3.02
0.241	12.6	8.22	6.50	3.21
0.297	13.3	10.10	8.00	3.37
0.352	13.6	11.97	9.50	3.40
0.426	14.0	14.47	11.49	3.42
0.537	13.6	18.22	14.49	3.21
0.630	12.4	21.35	16.98	2.80
0.723	11.6	24.47	19.48	2.49
0.501	13.9	16.97	13.49	3.33

Tested By: JCM Date: 07/28/04 Input Checked By: *JM* Date: 8/6/04

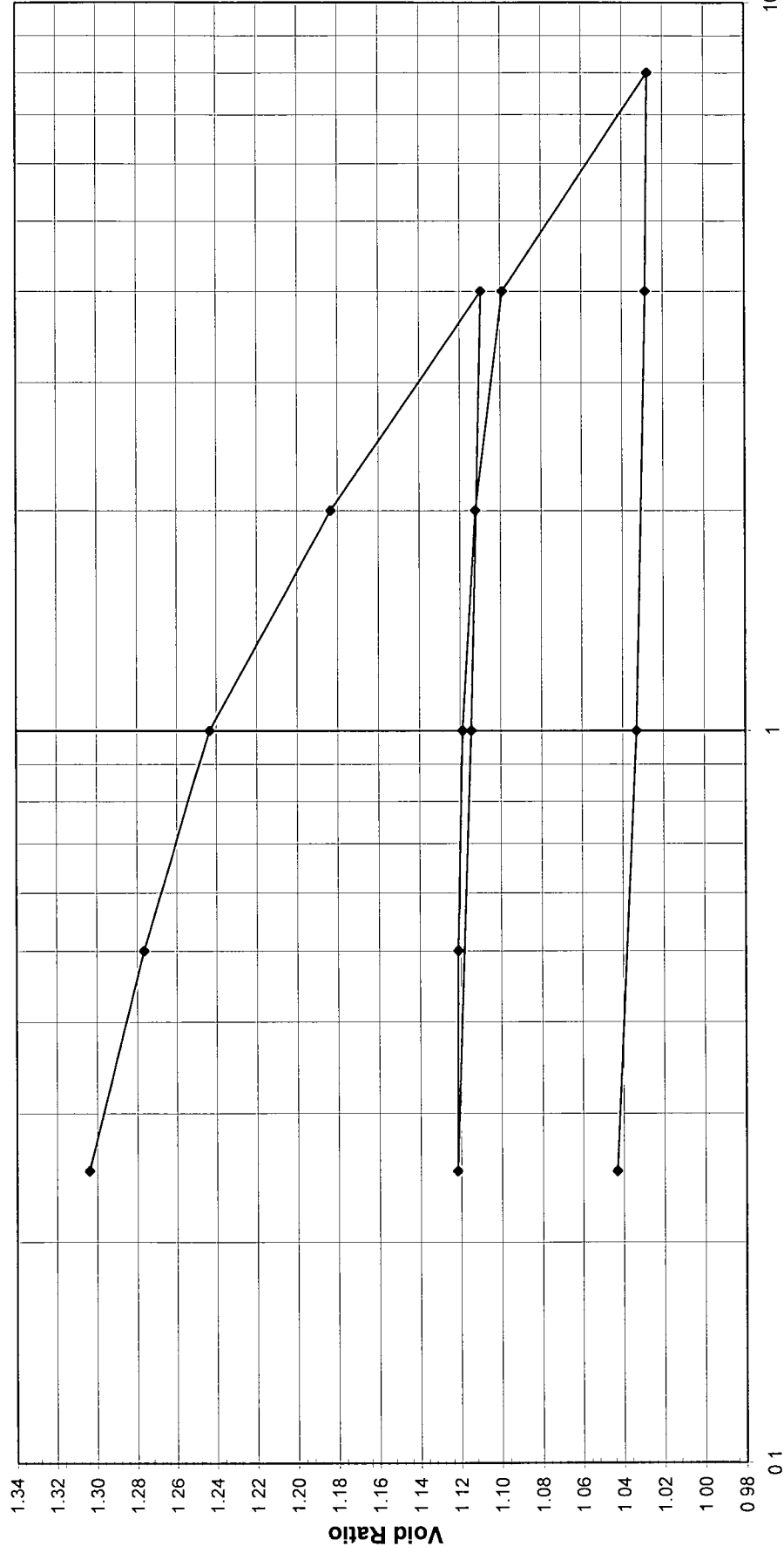


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 / AASHTO T216-03 (SOP-S24)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Reference	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-01	Sample No.	SS26
Lab ID	2004-221-01-01	Visual Description	BROWNISH GRAY STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Tested By TM Date 7/22/04 Approved By DB Date 7/24/04



# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 / AASHTO T216-03 (SOP-S24)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Reference	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-01	Sample No.	SS26
Lab ID	2004-221-01-01	Visual Description	BROWNISH GRAY STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED

**Consolidometer No.** 1  
**1 Division** = 0.0001 (in)

### Sample Properties

	Initial	Final
<i>Water Content</i>		
Tare Number	444	444
Wt. Tare & WS (gm)	258.74	193.03
Wt. Tare & DS (gm)	207.97	169.81
Wt. Water (gm)	50.77	23.22
Wt. Tare (gm)	99.86	99.86
Wt. DS (gm)	108.11	69.95
Water Content (%)	46.96	33.20

### Sample Parameters

Sample Diameter (in)	2.5	2.5
Sample Height (in)	0.75	0.650
Sample Volume (cc)	60.33	52.32
Wt. Wet Sample + Ring (gm)	177.98	168.46
Wt. of Ring (gm)	76.37	76.37
Wt. of Wet Sample (gm)	101.61	92.09
Wet Density (pcf)	105.10	109.83
Wet Density (g/cc)	1.68	1.76
Water Content (%)	46.96	33.20
Wt. of Dry Sample (gm)	69.14	69.14
Dry Density (pcf)	71.51	82.46
Dry Density (g/cc)	1.15	1.32
Void Ratio	1.3559	1.0433
Saturation (%)	93.51	85.91
Specific Gravity	2.70	Assumed

### Test Data Summary

Applied Pressure (tsf)	Final Dial Reading (div)	Machine Deflection (div)	Corrected Reading (div)	Height of Sample (mm)	Volume (cc)	Dry Density (g/cc)	Void Ratio
Seating	0	0	0	19.050	60.330	1.14604	1.35593
0.25	174.6	8.9	165.7	18.629	58.997	1.17194	1.30387
0.5	268.7	15.8	252.9	18.408	58.296	1.18603	1.27650
1	385.1	26.9	358.2	18.140	57.448	1.20353	1.24341
2	588.8	39.4	549.4	17.655	55.911	1.23663	1.18336
4	839.3	54.3	785.0	17.056	54.015	1.28001	1.10935
1	803.6	34.8	768.8	17.097	54.146	1.27693	1.11444
0.25	763.5	17.9	745.6	17.156	54.332	1.27256	1.12171
0.5	769.1	21.8	747.3	17.152	54.319	1.27286	1.12120
1	784.4	29.5	754.9	17.133	54.257	1.27431	1.11880
2	817.5	41.8	775.7	17.080	54.090	1.27824	1.11228
4	872.8	54.4	818.5	16.971	53.746	1.28643	1.09884
8	1115.6	69.8	1045.8	16.394	51.917	1.33174	1.02742
4	1105.1	63.0	1042.1	16.403	51.947	1.33098	1.02858
1	1067.5	40.1	1027.4	16.440	52.065	1.32796	1.03320
0.25	1018.9	23.5	995.4	16.522	52.323	1.32141	1.04327

Tested By TM Date 7/22/04 Input Checked By GL Date 7/29/04



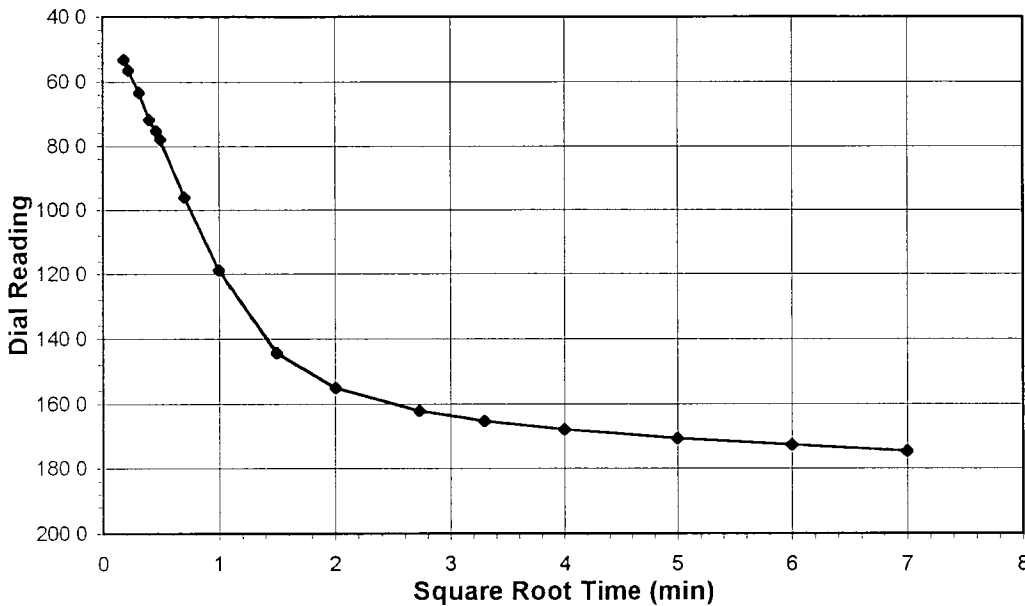
# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE  
 Client Project: GEHR TREATABILITY 204.302  
 Project No: 2004-221-01  
 Lab ID: 2004-221-01-01

Boring No.: NA  
 Depth (ft): NA  
 Sample No.: SS26  
 Visual Description: BROWNISH GRAY STABILIZED MATERIAL

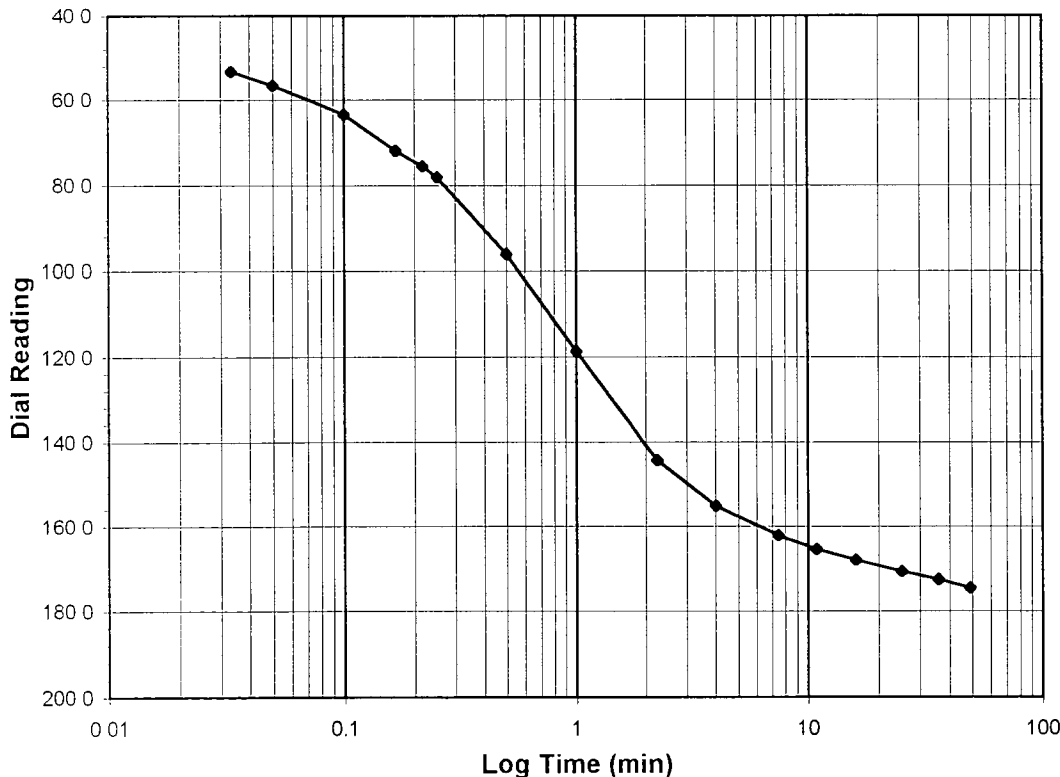
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf): 0-0.25  
 Final Reading (div): 174.6  
 Consolidometer No.: 1  
 1 Division (in): 0.0001

Start Date: 7/22/04  
 Start Time: 13:02:24

Elapsed Time (min)	Dial Reading (div)
Initial	0.0
0.03	53.3
0.05	56.6
0.10	63.4
0.17	71.9
0.22	75.4
0.25	78.0
0.50	96.1
1.00	118.8
2.25	144.4
4.02	155.2
7.45	162.2
10.90	165.4
16.00	168.0
25.00	170.7
36.00	172.6
49.00	174.6



Tested By: TM Date: 7/22/04 Checked By: C.U. Date: 7/29/04

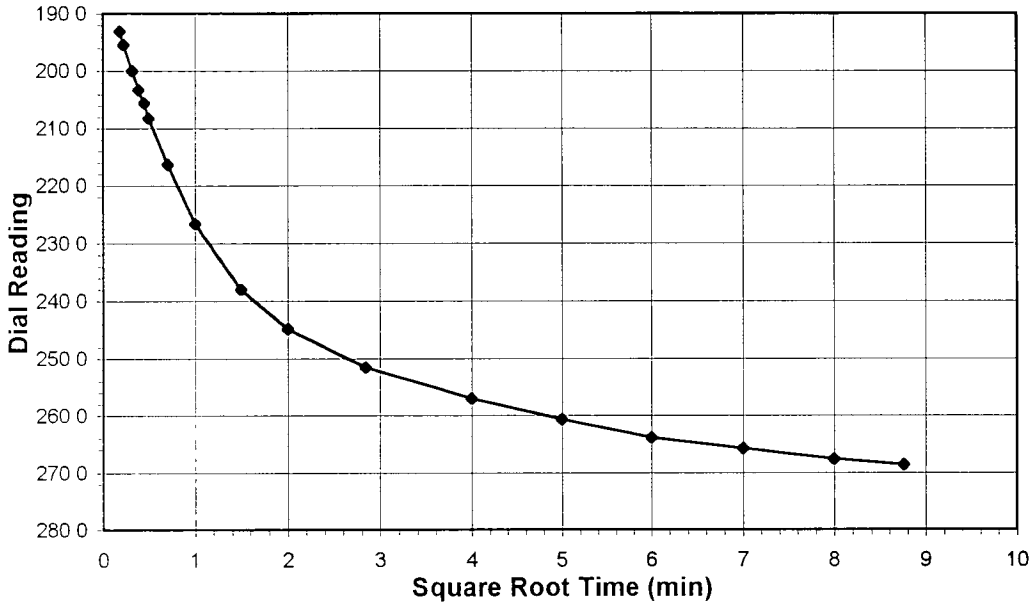


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

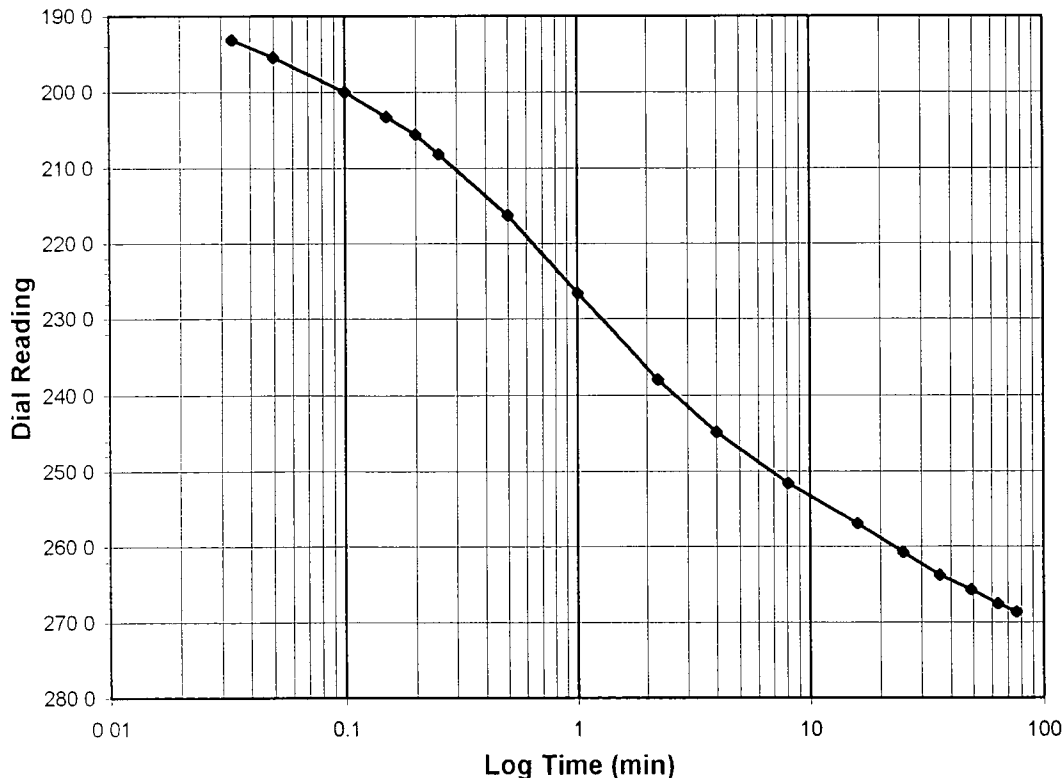
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-01	Sample No.	SS26
Lab ID	2004-221-01-01	Visual Description	BROWNISH GRAY STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.25-0.5
Final Reading (div)	268.7
Consolidometer No.	1
1 Division (in)	0.0001
Start Date	7/22/04
Start Time	14:20:22

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>174.6</b>
0.03	193.1
0.05	195.4
0.10	200.0
0.15	203.3
0.20	205.6
0.25	208.2
0.50	216.3
1.00	226.6
2.25	238.0
4.00	244.9
8.07	251.6
16.00	257.0
25.00	260.7
36.00	263.8
49.00	265.7
64.00	267.6
76.78	268.7



Tested By *TM* Date *7/22/04* Checked By *GU* Date *7/29/04*





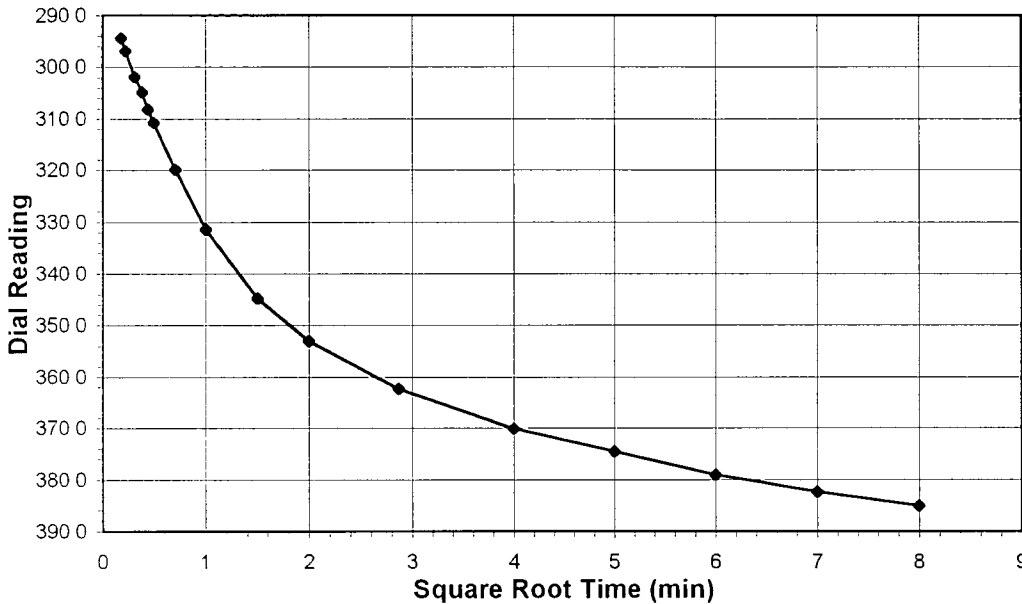
# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE  
 Client Project: GEHR TREATABILITY 204.302  
 Project No.: 2004-221-01  
 Lab ID: 2004-221-01-01

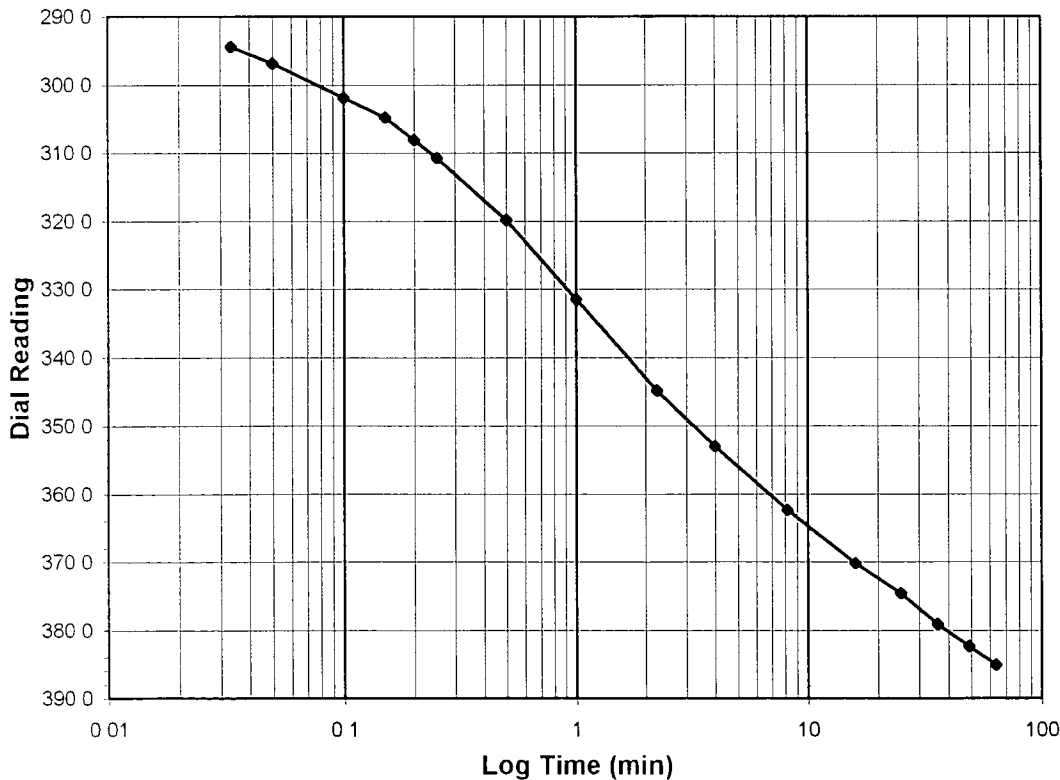
Boring No.: NA  
 Depth (ft): NA  
 Sample No.: SS26  
 Visual Description: BROWNISH GRAY STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf): 0.5-1.0  
 Final Reading (div): 385.1  
 Consolidometer No.: 1  
 1 Division (in): 0.0001  
 Start Date: 7/23/04  
 Start Time: 9:31:01

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>268.7</b>
0.03	294.4
0.05	296.9
0.10	301.9
0.15	304.9
0.20	308.1
0.25	310.8
0.50	319.9
1.00	331.5
2.25	344.8
4.00	353.0
8.22	362.4
16.00	370.2
25.00	374.6
36.00	379.1
49.00	382.4
64.00	385.1



Tested By: TM Date: 7/23/04 Checked By: GU Date: 7/29/04



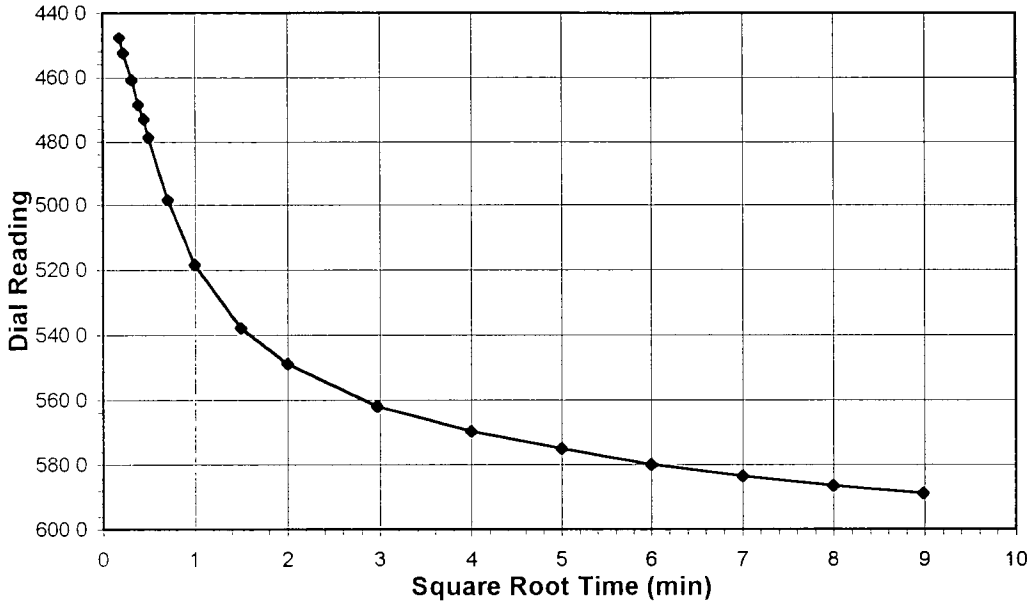
# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE  
 Client Project: GEHR TREATABILITY 204.302  
 Project No.: 2004-221-01  
 Lab ID: 2004-221-01-01

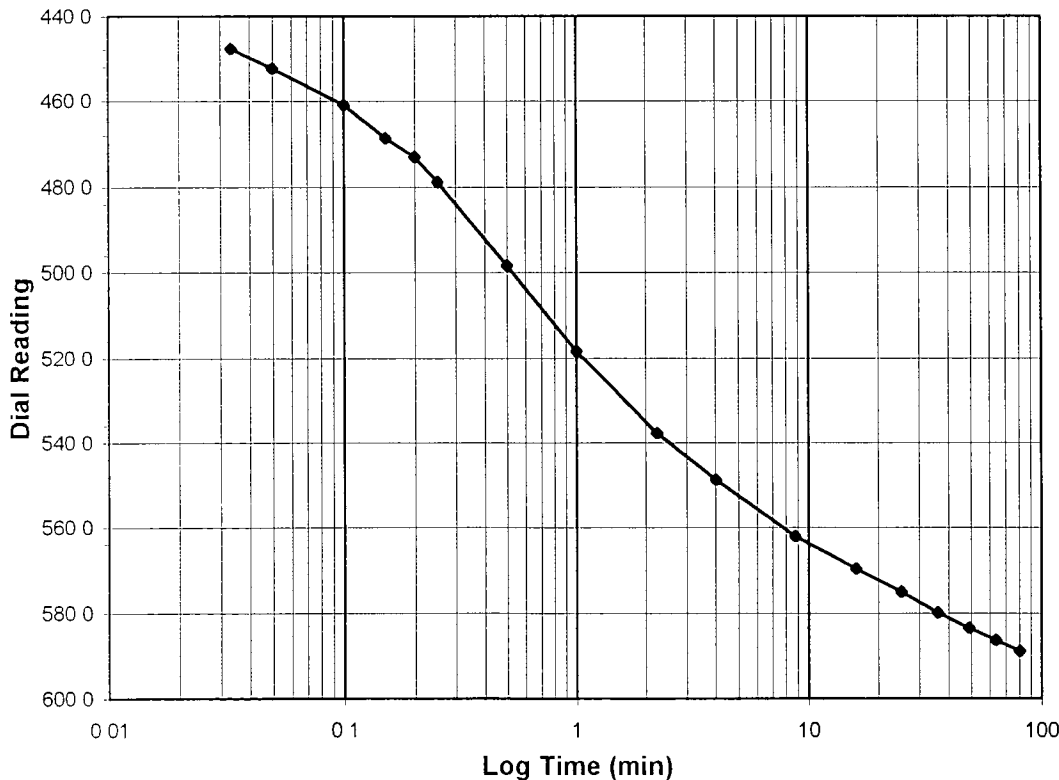
Boring No.: NA  
 Depth (ft): NA  
 Sample No.: SS26  
 Visual Description: BROWNISH GRAY STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf): 1.0-2.0  
 Final Reading (div): 588.8  
 Consolidometer No.: 1  
 1 Division (in): 0.0001  
 Start Date: 7/23/04  
 Start Time: 10:37:34

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>385.1</b>
0.03	447.7
0.05	452.4
0.10	460.9
0.15	468.5
0.20	473.0
0.25	478.7
0.50	498.3
1.00	518.4
2.25	537.8
4.02	548.8
8.81	562.1
16.00	569.6
25.00	575.0
36.00	579.9
49.00	583.5
64.00	586.4
80.66	588.8



Tested By: TM Date: 7/23/04 Checked By: GU Date: 7/29/04

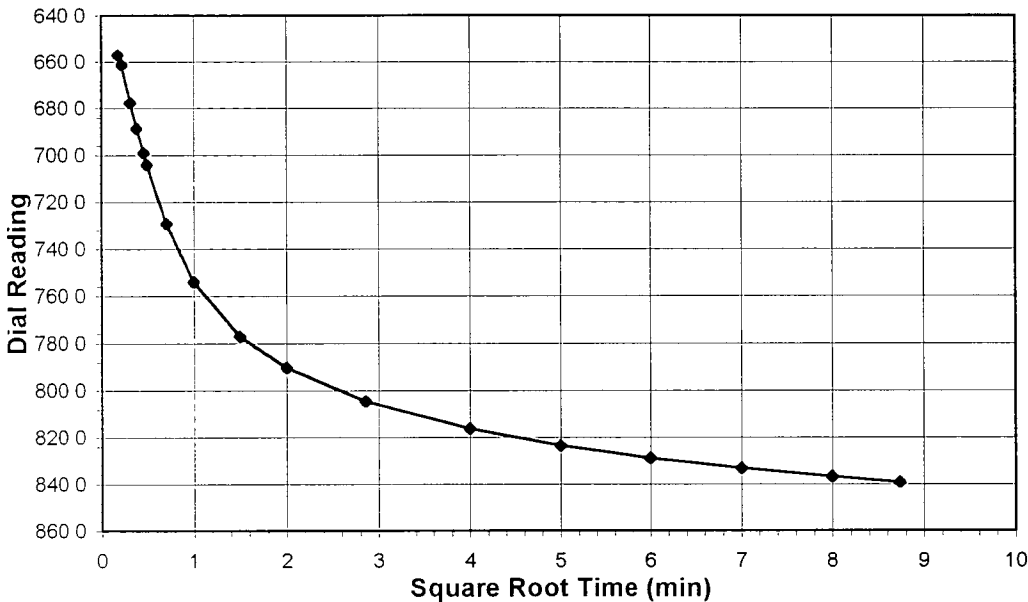
# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client **BLASLAND, BOUCK, & LEE**  
 Client Project **GEHR TREATABILITY 204.302**  
 Project No. **2004-221-01**  
 Lab ID **2004-221-01-01**

Boring No. **NA**  
 Depth (ft) **NA**  
 Sample No. **SS26**  
 Visual Description **BROWNISH GRAY  
 STABILIZED MATERIAL**

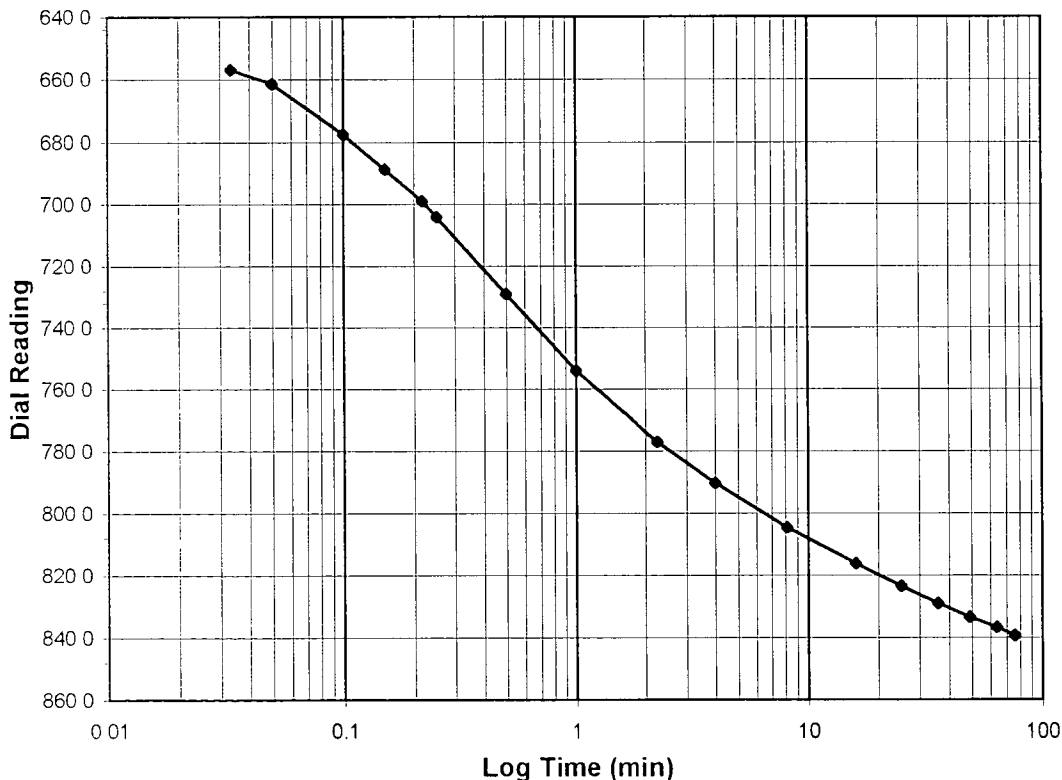
**Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED**



Test Load (tsf) **2.0-4.0**  
 Final Reading (div) **839.3**  
 Consolidometer No. **1**  
 1 Division (in) **0.0001**

Start Date **7/23/04**  
 Start Time **11:59:20**

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>588.8</b>
0.03	657.0
0.05	661.4
0.10	677.5
0.15	688.7
0.22	699.0
0.25	704.0
0.50	729.1
1.00	753.9
2.25	777.2
4.00	790.4
8.15	804.6
16.00	816.3
25.00	823.4
36.00	829.0
49.00	833.3
64.00	836.7
76.40	839.3



Tested By **TM** Date **7/23/04** Checked By **GU** Date **7/29/04**



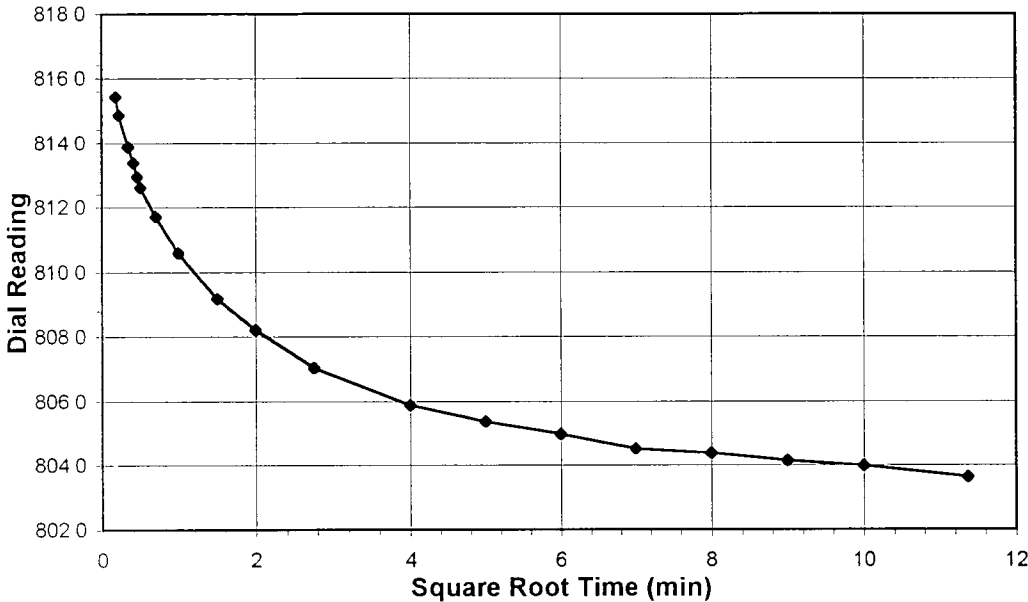
# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE  
 Client Project: GEHR TREATABILITY 204.302  
 Project No.: 2004-221-01  
 Lab ID: 2004-221-01-01

Boring No.: NA  
 Depth (ft): NA  
 Sample No.: SS26  
 Visual Description: BROWNISH GRAY STABILIZED MATERIAL

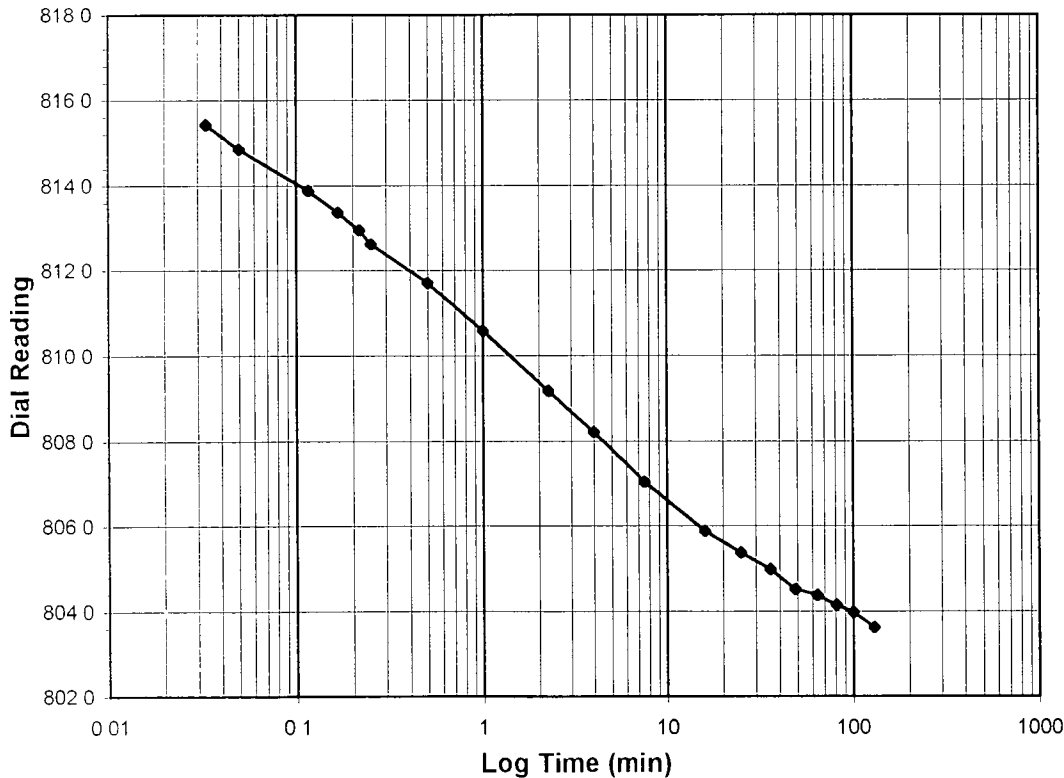
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf): 4.0-1.0  
 Final Reading (div): 803.6  
 Consolidometer No.: 1  
 1 Division (in): 0.0001

Start Date: 7/23/04  
 Start Time: 13:23:39

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>839.3</b>
0.03	815.4
0.05	814.9
0.12	813.9
0.17	813.4
0.22	813.0
0.25	812.6
0.50	811.7
1.00	810.6
2.25	809.2
4.00	808.2
7.58	807.0
16.00	805.9
25.00	805.4
36.00	805.0
49.00	804.5
64.00	804.4
81.00	804.2
100.00	804.0
129.33	803.6



Tested By: TM Date: 7/23/04 Checked By: GU Date: 7/29/04



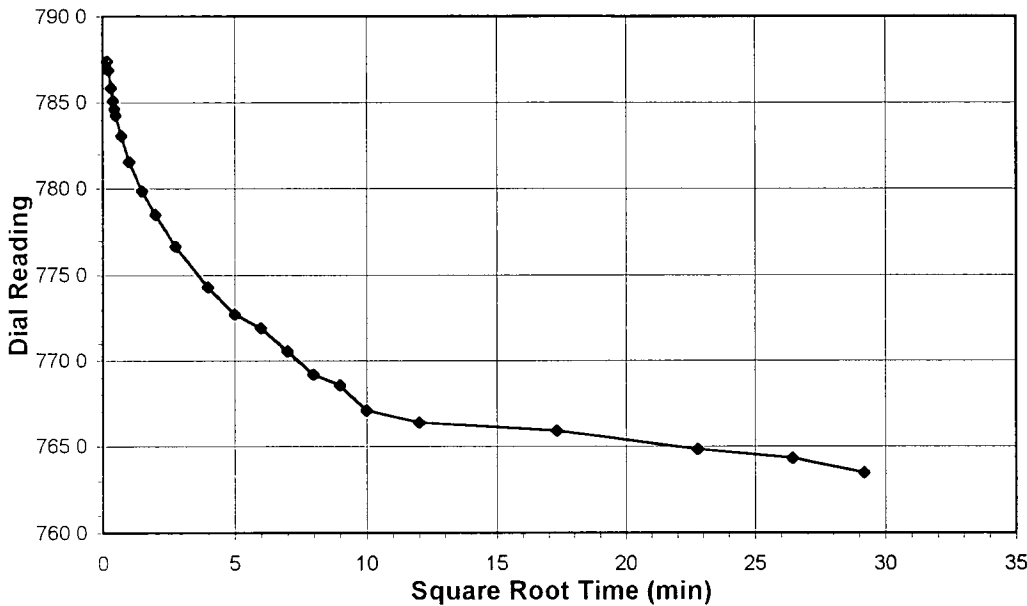
# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE  
 Client Project: GEHR TREATABILITY 204.302  
 Project No: 2004-221-01  
 Lab ID: 2004-221-01-01

Boring No.: NA  
 Depth (ft): NA  
 Sample No.: SS26  
 Visual Description: BROWNISH GRAY STABILIZED MATERIAL

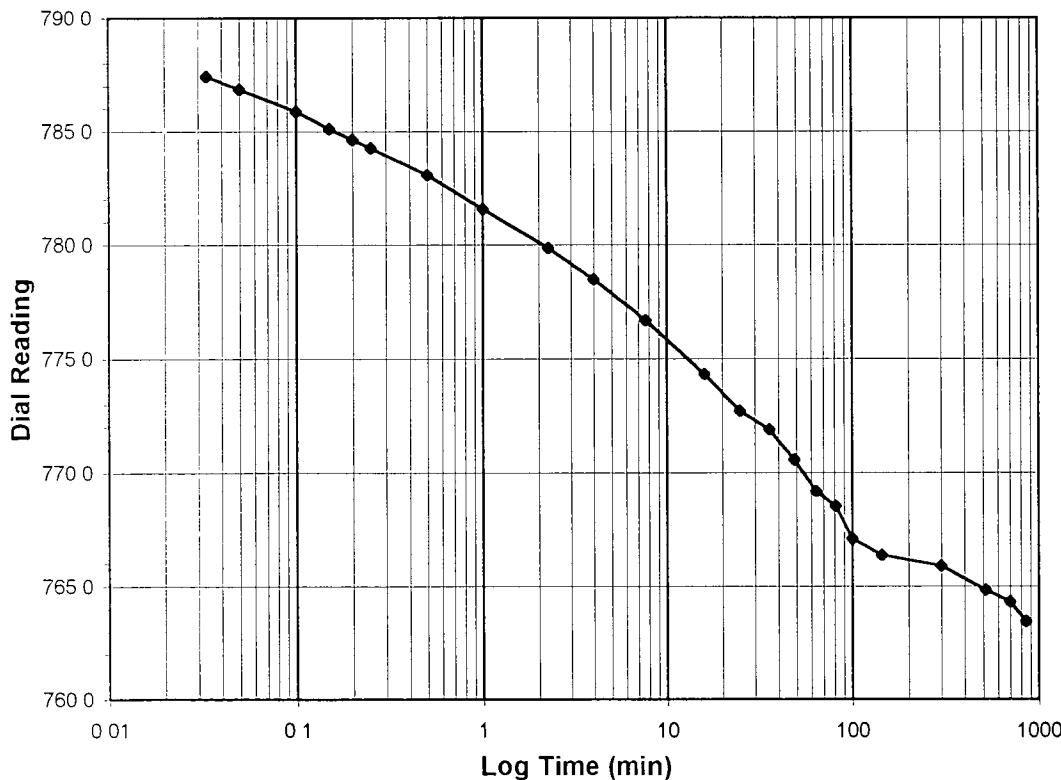
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf): 1.0-0.25  
 Final Reading (div): 763.5  
 Consolidometer No.: 1  
 1 Division (in): 0.0001

Start Date: 7/23/04  
 Start Time: 15:40:11

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>803.6</b>
0.03	787.4
0.05	786.9
0.10	785.9
0.15	785.1
0.20	784.6
0.25	784.2
0.50	783.1
1.00	781.6
2.27	779.9
4.00	778.5
7.68	776.7
16.00	774.3
25.00	772.7
36.00	771.9
49.00	770.6
64.00	769.2
81.00	768.5
100.00	767.1
144.00	766.4
300.00	765.9
520.02	764.8
700.00	764.3
851.63	763.5



Tested By: TM Date: 7/23/04 Checked By: GU Date: 2/29/14



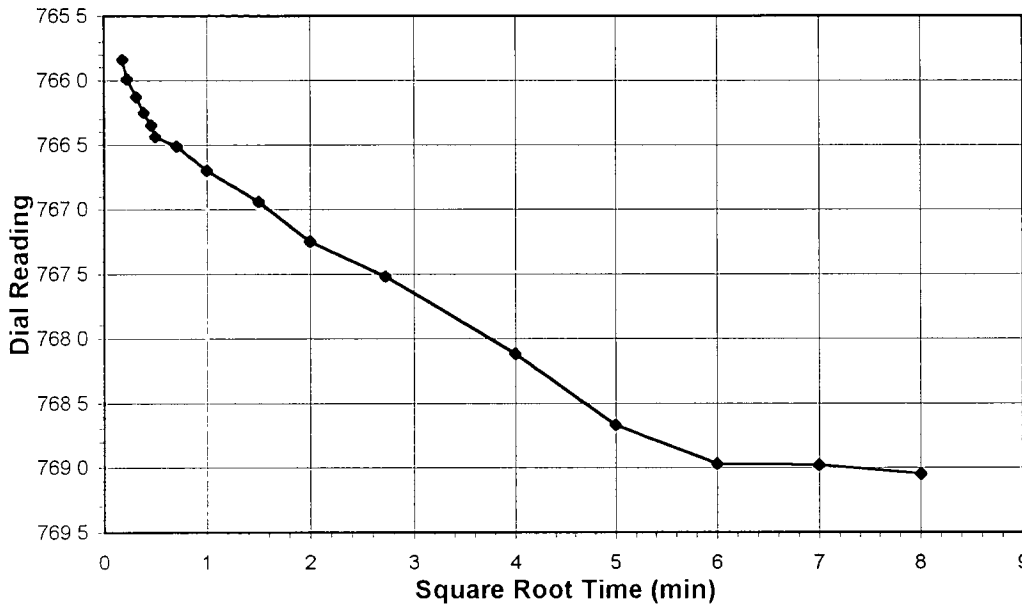
# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE  
 Client Project: GEHR TREATABILITY 204.302  
 Project No.: 2004-221-01  
 Lab ID: 2004-221-01-01

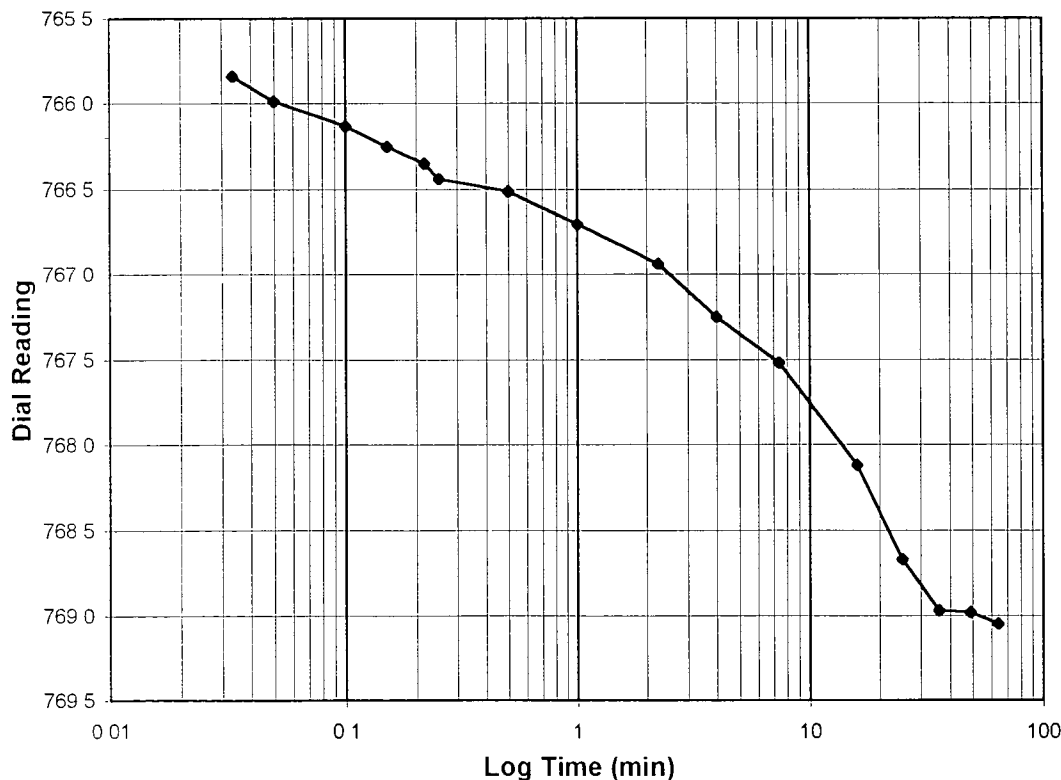
Boring No.: NA  
 Depth (ft): NA  
 Sample No.: SS26  
 Visual Description: BROWNISH GRAY STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf): 0.25-0.5  
 Final Reading (div): 769.1  
 Consolidometer No.: 1  
 1 Division (in): 0.0001  
 Start Date: 7/24/04  
 Start Time: 6:04:18

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>763.5</b>
0.03	765.8
0.05	766.0
0.10	766.1
0.15	766.3
0.22	766.4
0.25	766.4
0.50	766.5
1.00	766.7
2.25	766.9
4.00	767.3
7.42	767.5
16.00	768.1
25.00	768.7
36.00	769.0
49.00	769.0
64.10	769.1



Tested By: TM Date: 7/24/04 Checked By: GU Date: 7/29/04



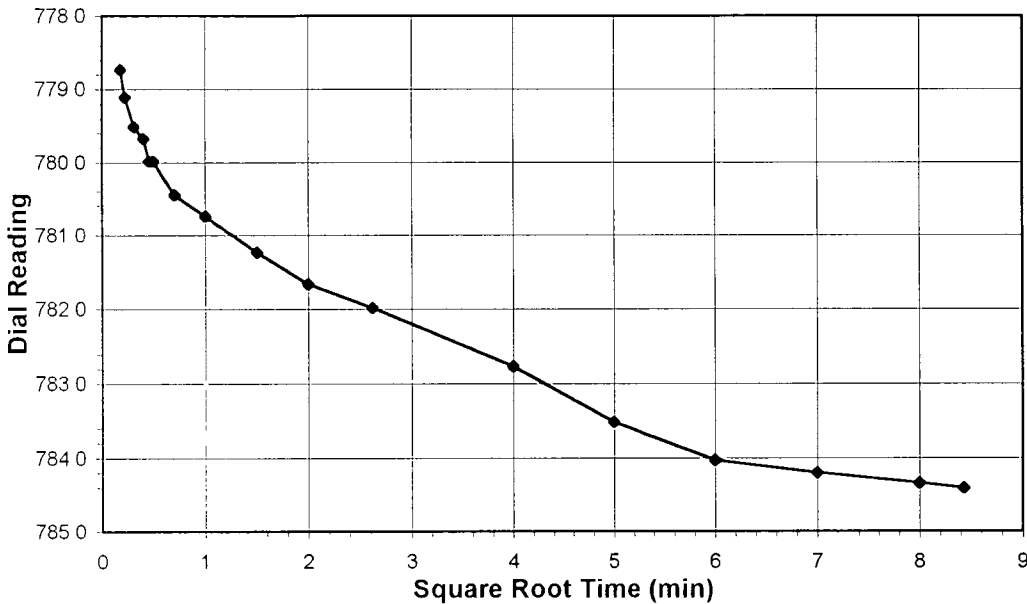
# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE  
 Client Project: GEHR TREATABILITY 204.302  
 Project No.: 2004-221-01  
 Lab ID: 2004-221-01-01

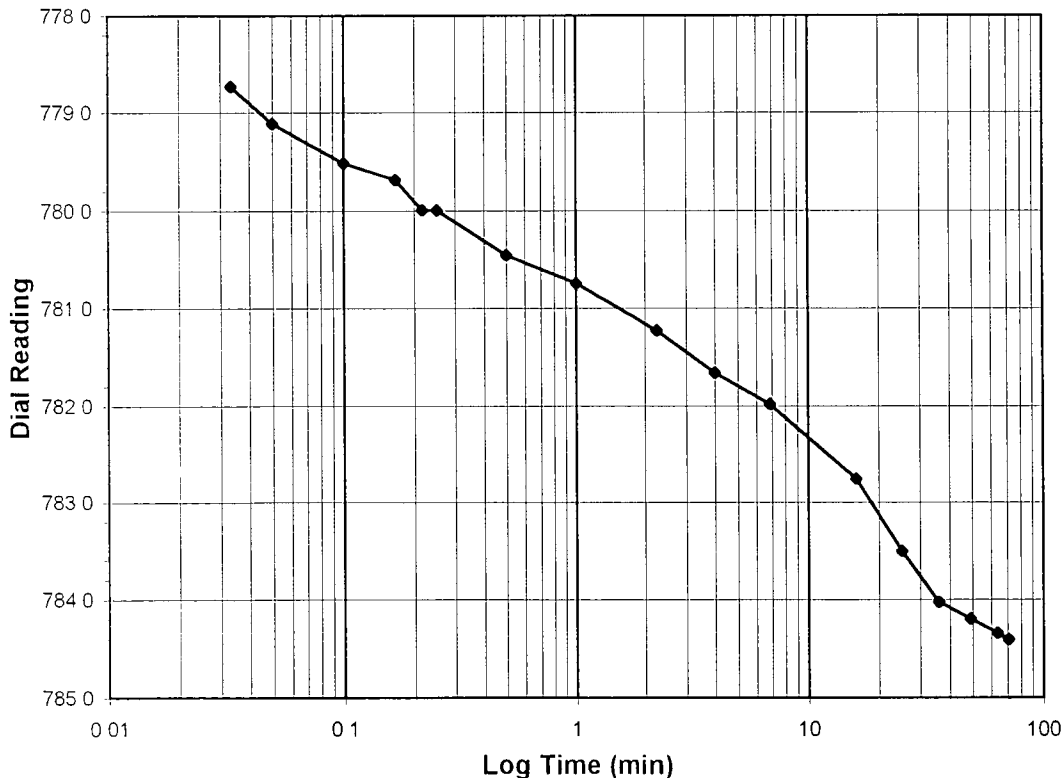
Boring No.: NA  
 Depth (ft): NA  
 Sample No.: SS26  
 Visual Description: BROWNISH GRAY STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf): 0.5-1.0  
 Final Reading (div): 784.4  
 Consolidometer No.: 1  
 1 Division (in): 0.0001  
 Start Date: 7/24/04  
 Start Time: 7:14:14

Elapsed Time (min)	Dial Reading (div)
Initial	769.1
0.03	778.7
0.05	779.1
0.10	779.5
0.17	779.7
0.22	780.0
0.25	780.0
0.50	780.5
1.00	780.7
2.25	781.2
4.00	781.7
6.87	782.0
16.00	782.8
25.00	783.5
36.00	784.0
49.00	784.2
64.00	784.3
71.08	784.4



Tested By: TM Date: 7/24/04 Checked By: GU Date: 7/29/04



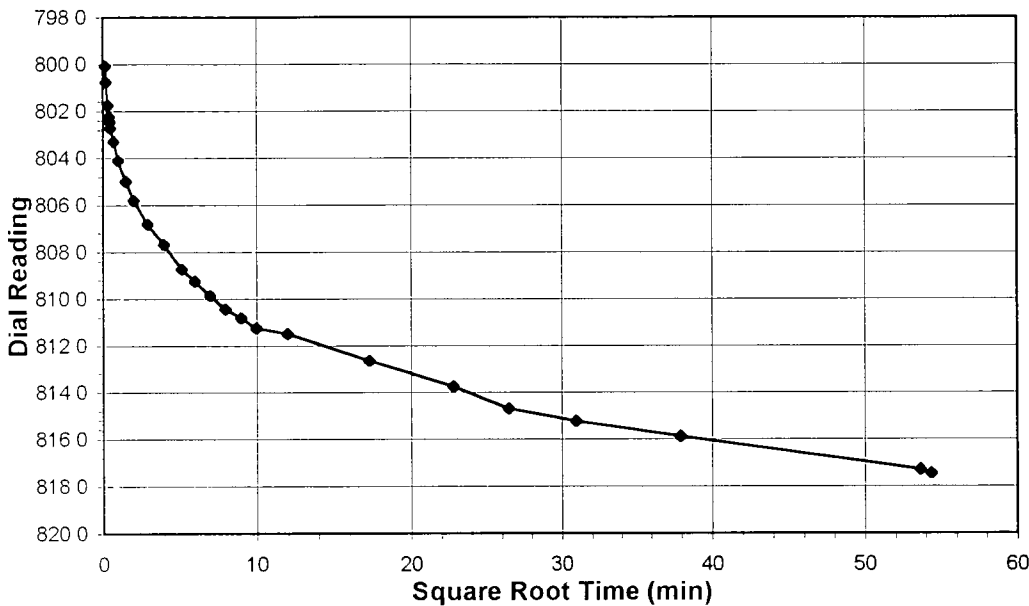
# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE  
 Client Project: GEHR TREATABILITY 204.302  
 Project No.: 2004-221-01  
 Lab ID: 2004-221-01-01

Boring No.: NA  
 Depth (ft): NA  
 Sample No.: SS26  
 Visual Description: BROWNISH GRAY STABILIZED MATERIAL

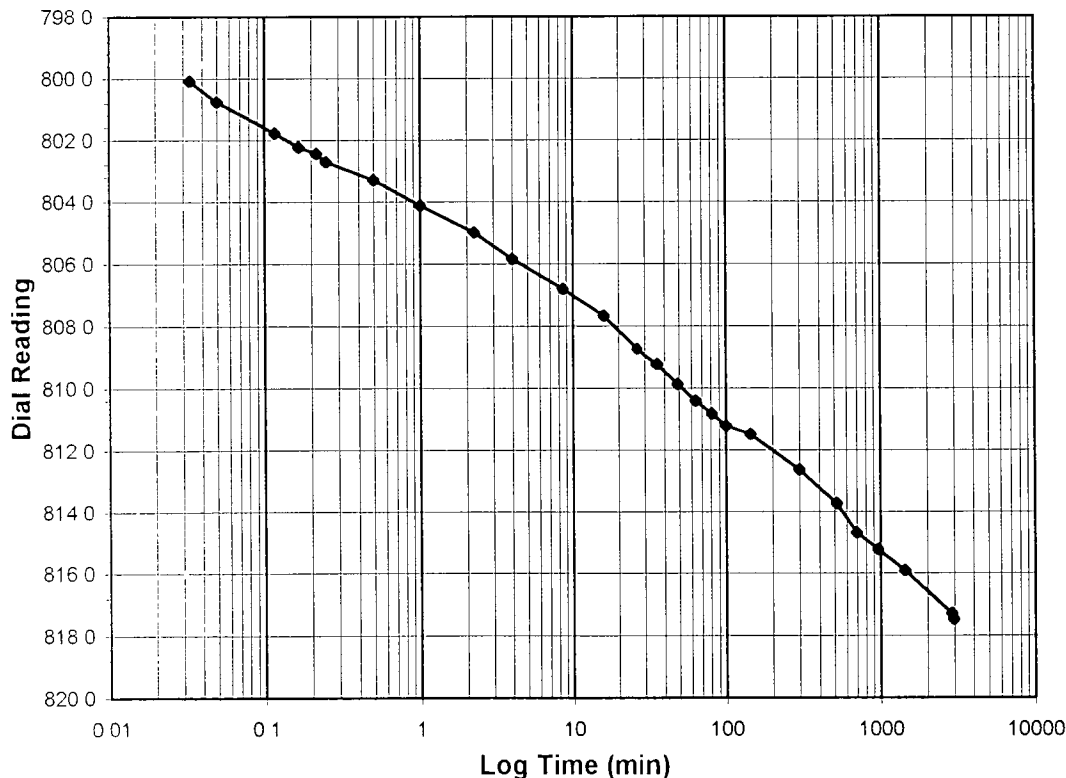
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf): 1.0-2.0  
 Final Reading (div): 817.5  
 Consolidometer No.: 1  
 1 Division (in): 0.0001

Start Date: 7/24/04  
 Start Time: 8:30:18

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>784.4</b>
0.03	800.1
0.05	800.8
0.12	801.8
0.17	802.2
0.22	802.5
0.25	802.7
0.50	803.3
1.00	804.1
2.25	805.0
4.00	805.8
8.57	806.8
16.00	807.7
26.52	808.7
36.00	809.2
49.00	809.9
64.02	810.4
81.00	810.8
100.00	811.2
144.00	811.5
300.00	812.6
520.00	813.8
700.00	814.7
960.00	815.2
1440.00	815.9
2880.00	817.3
2953.88	817.5



Tested By: TM Date: 7/24/04 Checked By: GU Date: 7/29/04





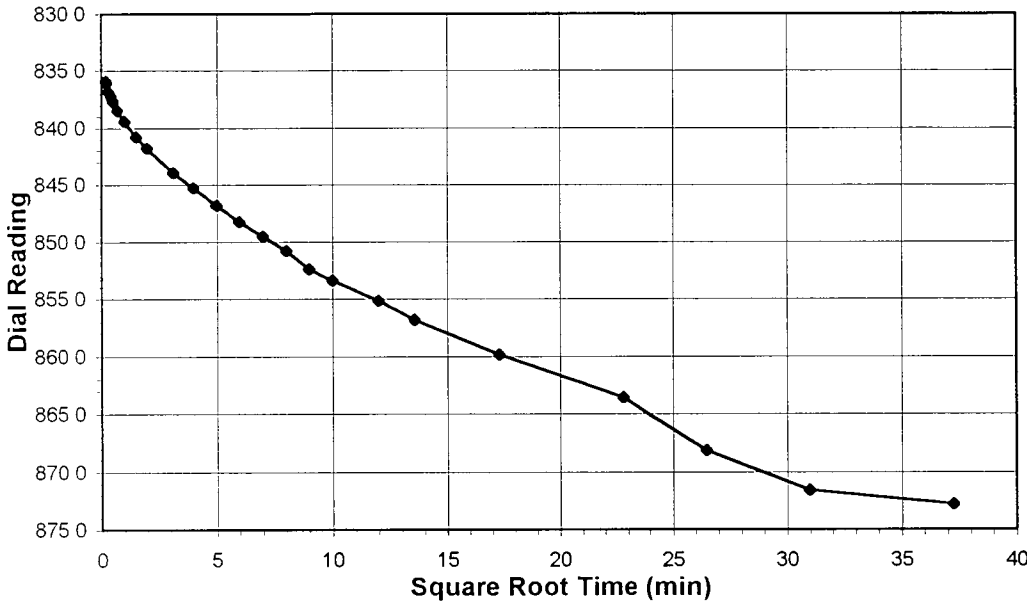
# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE  
 Client Project: GEHR TREATABILITY 204.302  
 Project No.: 2004-221-01  
 Lab ID: 2004-221-01-01

Boring No.: NA  
 Depth (ft): NA  
 Sample No.: SS26  
 Visual Description: BROWNISH GRAY STABILIZED MATERIAL

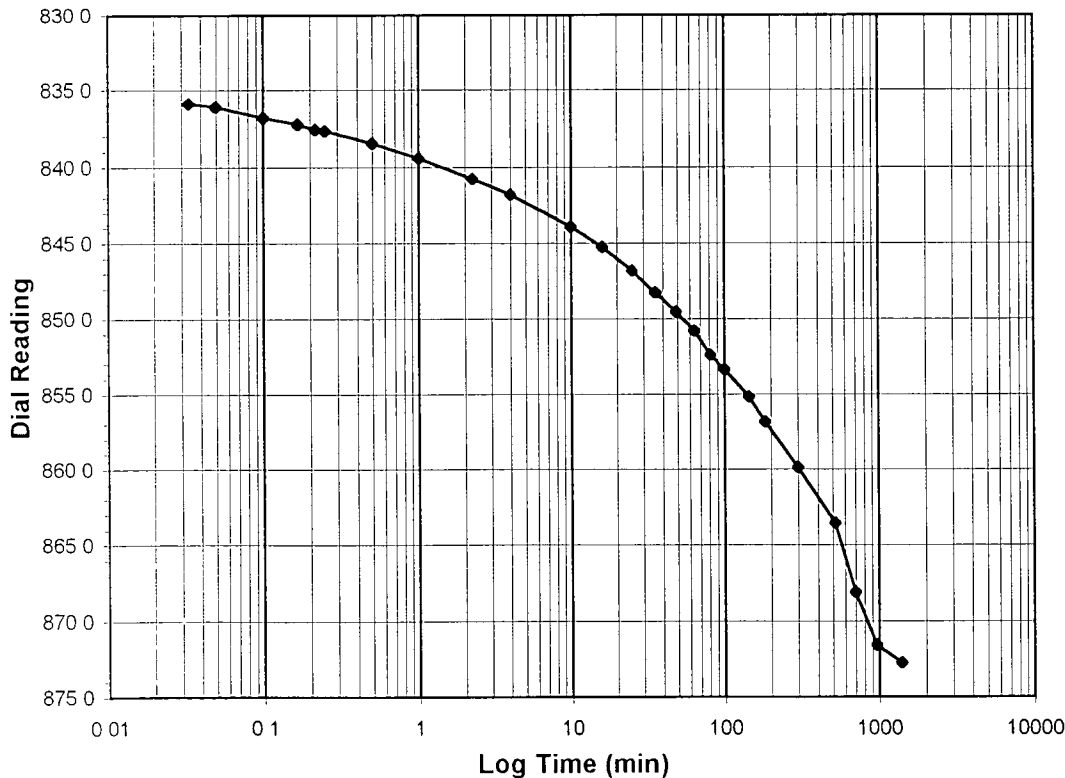
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 2.0-4.0  
 Final Reading (div) 872.8  
 Consolidometer No. 1  
 1 Division (in) 0.0001

Start Date 7/26/04  
 Start Time 10:10:20

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>817.5</b>
0.03	835.9
0.05	836.1
0.10	836.8
0.17	837.2
0.22	837.6
0.25	837.7
0.50	838.5
1.00	839.4
2.25	840.8
4.00	841.8
9.90	843.9
16.00	845.2
25.00	846.8
36.00	848.3
49.00	849.5
64.00	850.8
81.00	852.4
100.02	853.4
144.00	855.2
183.85	856.8
300.00	859.9
520.00	863.6
700.00	868.1
960.00	871.6
1388.42	872.8



Tested By TM Date 7/26/04 Checked By GU Date 7/29/04



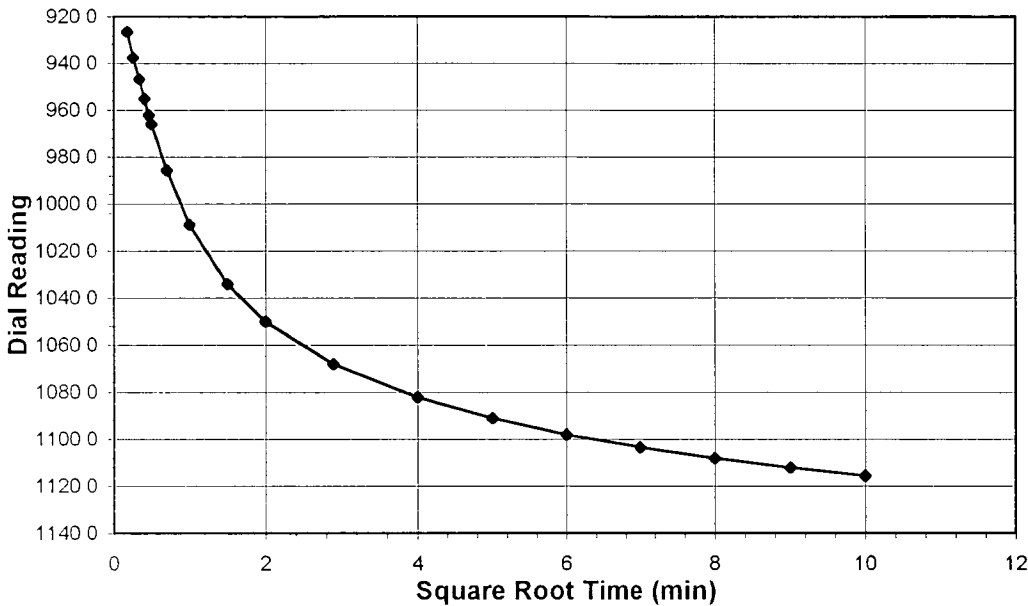
# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE  
 Client Project: GEHR TREATABILITY 204.302  
 Project No.: 2004-221-01  
 Lab ID: 2004-221-01-01

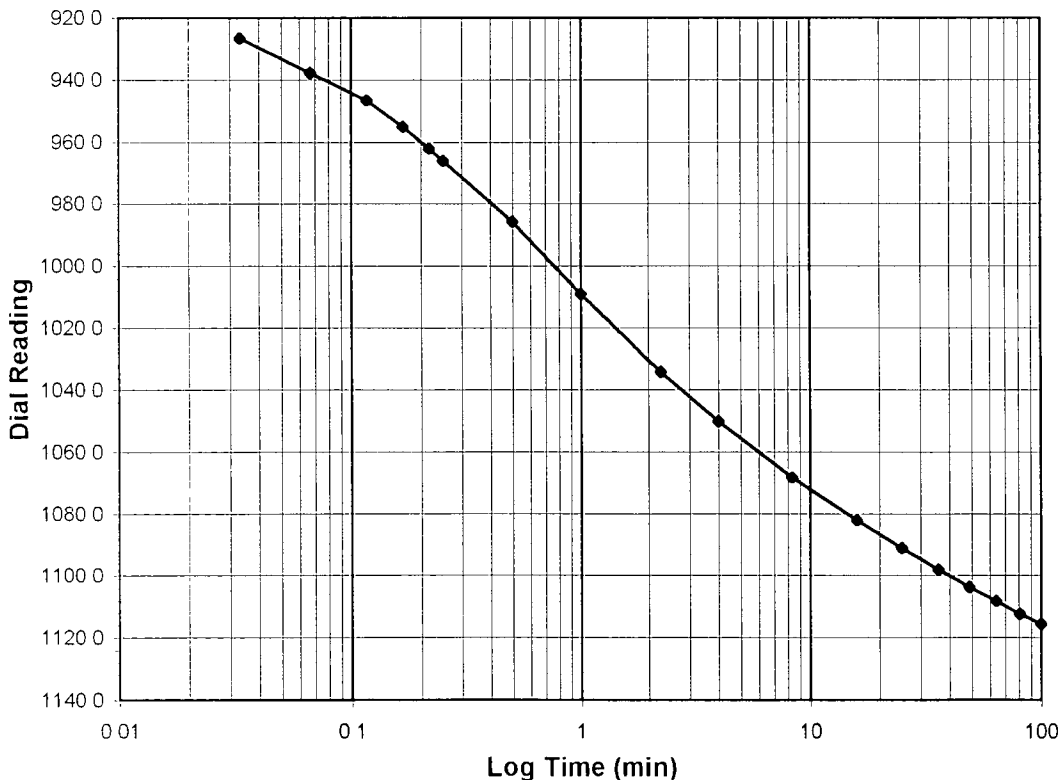
Boring No.: NA  
 Depth (ft): NA  
 Sample No.: SS26  
 Visual Description: BROWNISH GRAY STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf): 4.0-8.0  
 Final Reading (div): 1115.6  
 Consolidometer No.: 1  
 1 Division (in): 0.0001  
 Start Date: 7/27/04  
 Start Time: 9:28:53

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>872.8</b>
0.03	926.5
0.07	937.7
0.12	946.8
0.17	955.2
0.22	962.2
0.25	966.0
0.50	985.8
1.00	1009.0
2.25	1034.1
4.00	1050.1
8.38	1068.2
16.00	1082.2
25.00	1091.0
36.00	1098.0
49.00	1103.6
64.00	1108.2
81.00	1112.2
100.00	1115.6



Tested By: TM Date: 7/27/04 Checked By: GO Date: 7/29/04



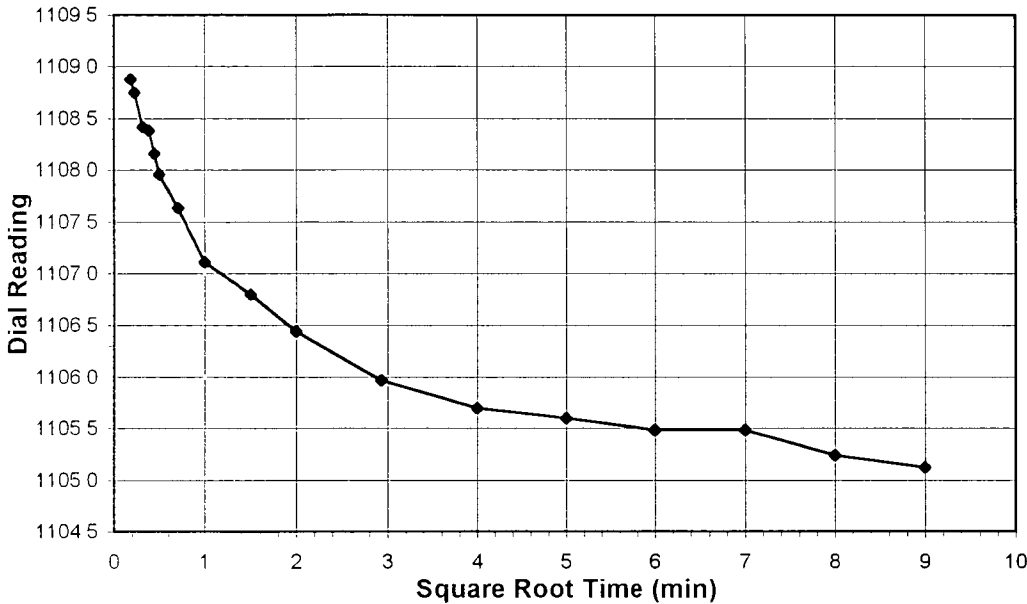
# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE  
 Client Project: GEHR TREATABILITY 204.302  
 Project No: 2004-221-01  
 Lab ID: 2004-221-01-01

Boring No.: NA  
 Depth (ft): NA  
 Sample No.: SS26  
 Visual Description: BROWNISH GRAY STABILIZED MATERIAL

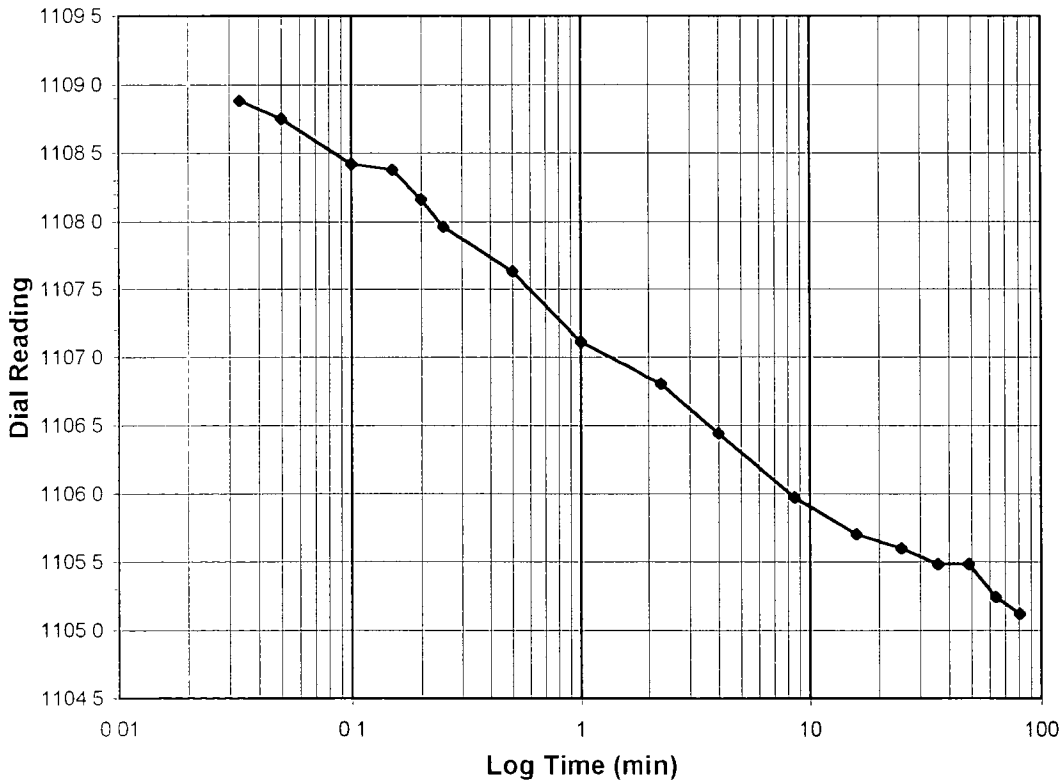
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf): 8.0-4.0  
 Final Reading (div): 1105.1  
 Consolidometer No.: 1  
 1 Division (in): 0.0001

Start Date: 7/27/04  
 Start Time: 11:34:13

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>1115.6</b>
0.03	1108.9
0.05	1108.8
0.10	1108.4
0.15	1108.4
0.20	1108.2
0.25	1108.0
0.50	1107.6
1.00	1107.1
2.25	1106.8
4.00	1106.4
8.57	1106.0
16.00	1105.7
25.00	1105.6
36.00	1105.5
49.00	1105.5
64.02	1105.2
81.00	1105.1



Tested By: TM Date: 7/27/04 Checked By: GU Date: 7/29/04



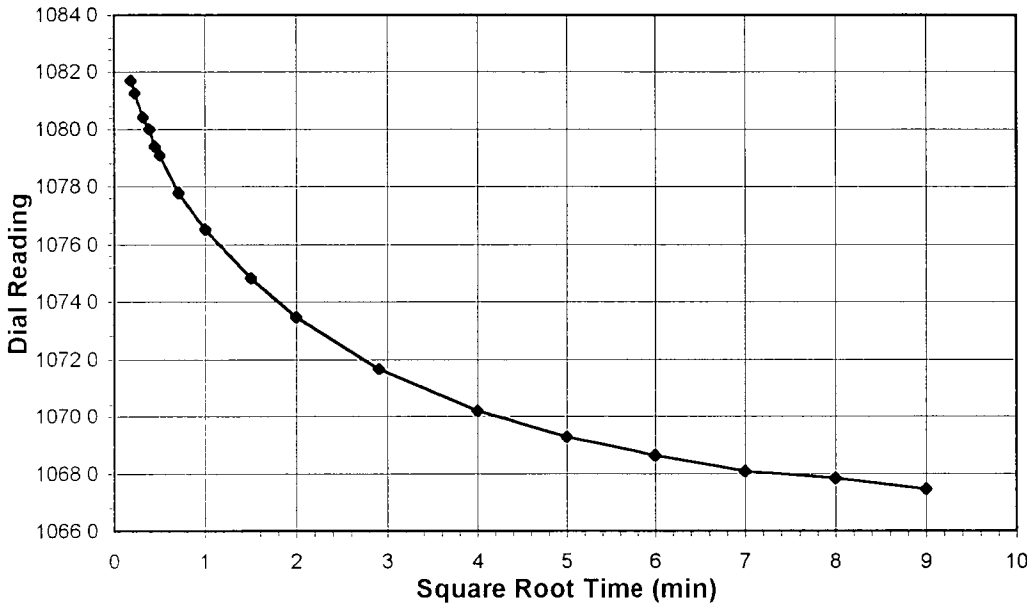
# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE  
 Client Project: GEHR TREATABILITY 204.302  
 Project No: 2004-221-01  
 Lab ID: 2004-221-01-01

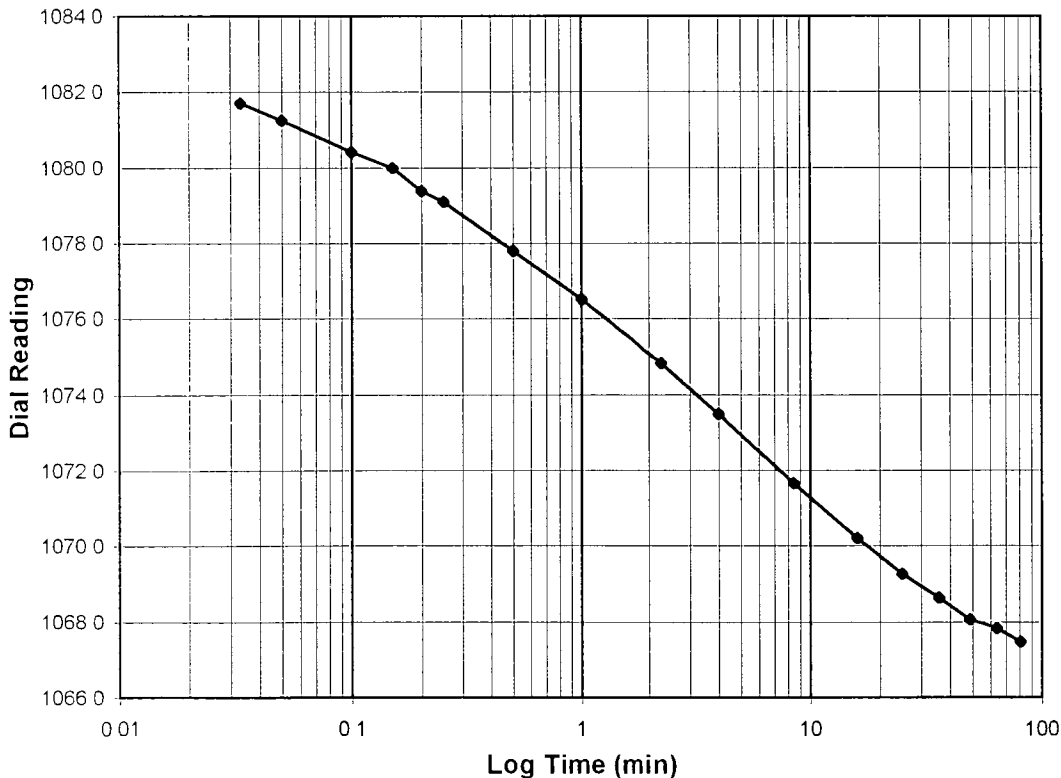
Boring No.: NA  
 Depth (ft): NA  
 Sample No.: SS26  
 Visual Description: BROWNISH GRAY STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf): 4.0-1.0  
 Final Reading (div): 1067.5  
 Consolidometer No.: 1  
 1 Division (in): 0.0001  
 Start Date: 7/27/04  
 Start Time: 13:08:42

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>1105.1</b>
0.03	1081.7
0.05	1081.3
0.10	1080.4
0.15	1080.0
0.20	1079.4
0.25	1079.1
0.50	1077.8
1.00	1076.5
2.25	1074.8
4.00	1073.5
8.45	1071.7
16.00	1070.2
25.00	1069.3
36.00	1068.6
49.00	1068.1
64.00	1067.8
81.00	1067.5



Tested By: TM Date: 7/27/04 Checked By: GU Date: 7/29/04

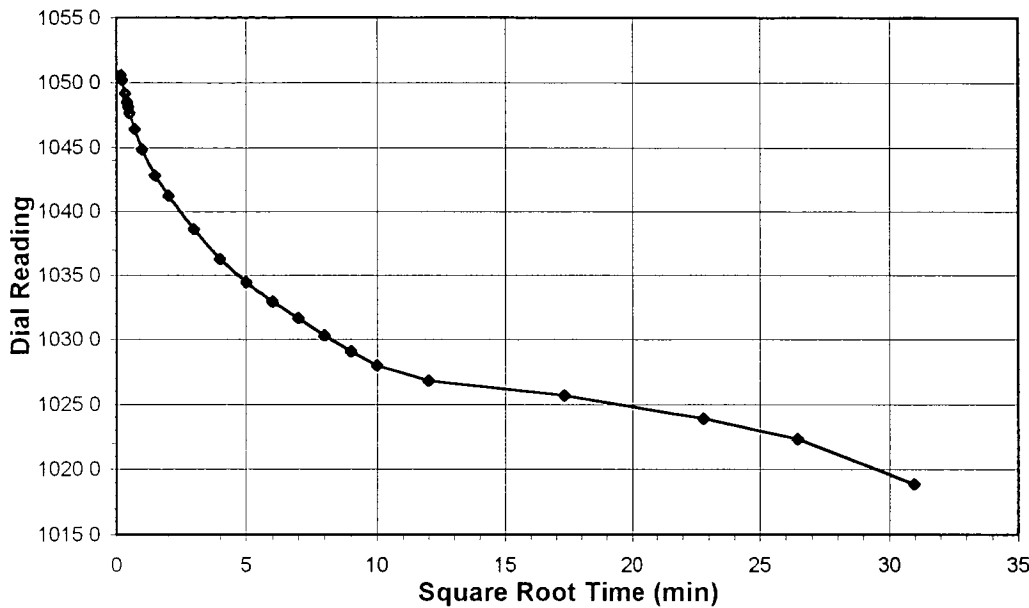
# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE  
 Client Project: GEHR TREATABILITY 204.302  
 Project No.: 2004-221-01  
 Lab ID: 2004-221-01-01

Boring No.: NA  
 Depth (ft): NA  
 Sample No.: SS26  
 Visual Description: BROWNISH GRAY STABILIZED MATERIAL

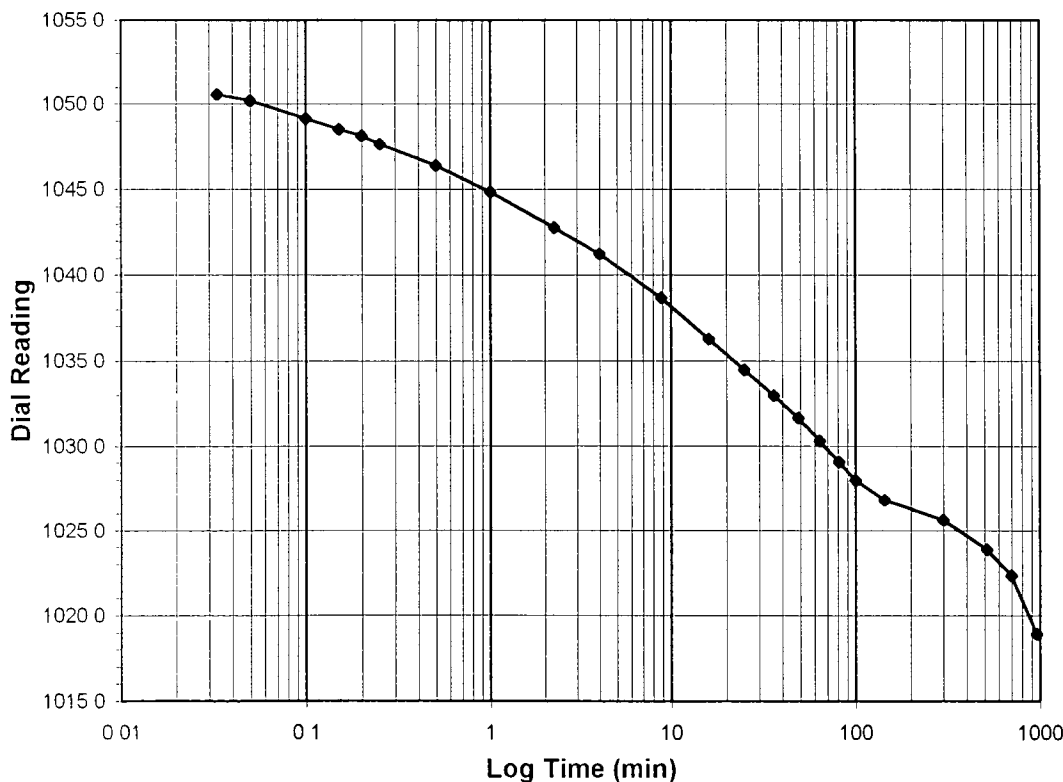
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf): 1.0-0.25  
 Final Reading (div): 1018.9  
 Consolidometer No.: 1  
 1 Division (in): 0.0001

Start Date: 7/27/04  
 Start Time: 14:40:59

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>1067.5</b>
0.03	1050.6
0.05	1050.2
0.10	1049.2
0.15	1048.5
0.20	1048.1
0.25	1047.7
0.50	1046.4
1.00	1044.9
2.25	1042.8
4.00	1041.2
8.83	1038.7
16.00	1036.3
25.00	1034.4
36.00	1033.0
49.00	1031.6
64.00	1030.3
81.00	1029.0
100.00	1028.0
144.00	1026.8
300.00	1025.6
520.00	1023.9
700.00	1022.3
960.00	1018.9



Tested By: TM Date: 7/27/04 Checked By: GO Date: 7/29/04

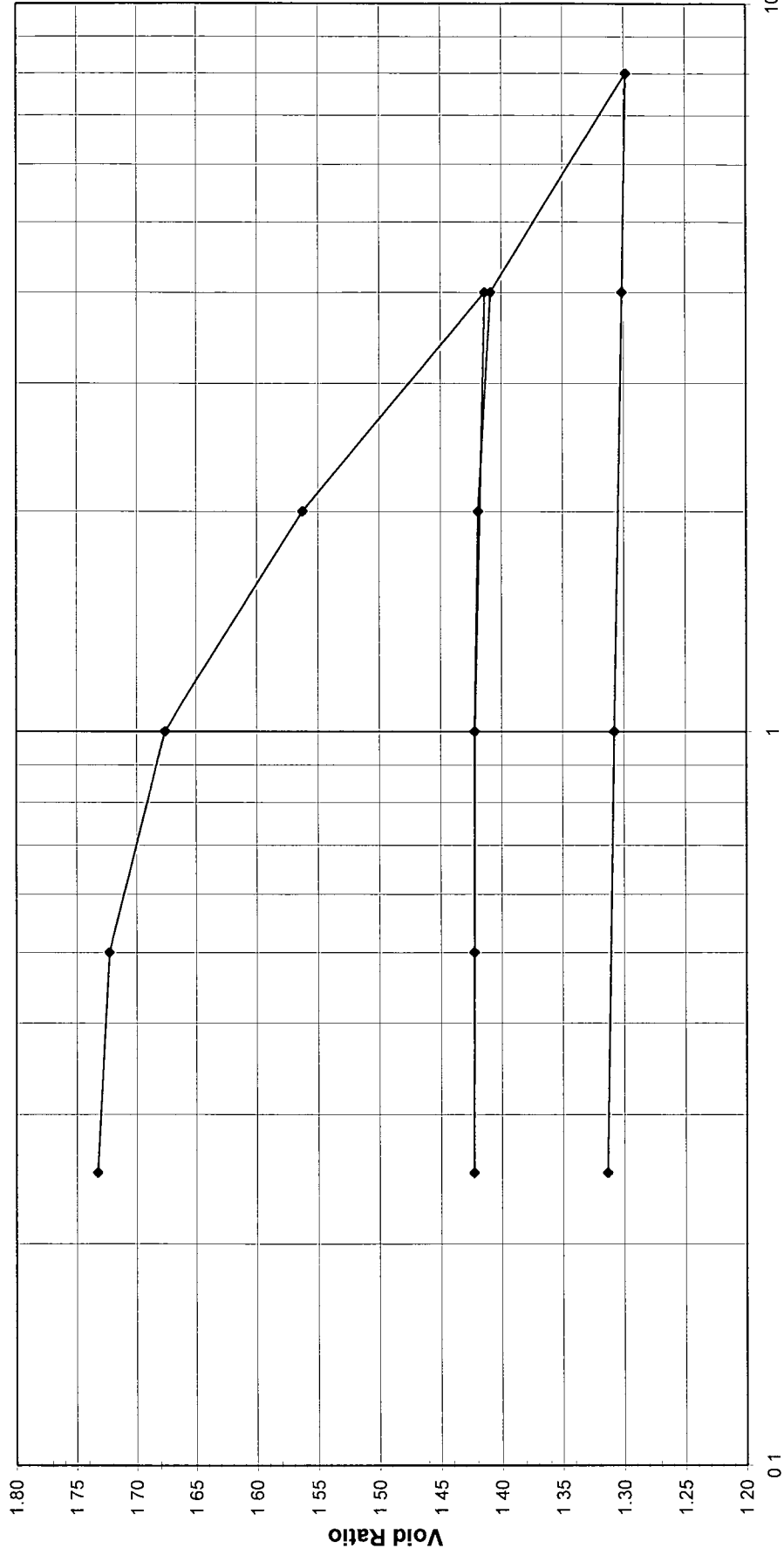


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 / AASHTO T216-03 (SOP-S24)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Reference	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-01	Sample No.	SS29
Lab ID	2004-221-01-02	Visual Description	BROWNISH GRAY STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Log P (tsf)

Tested By TM Date 7/22/04 Approved By DB Date 7/29/04



# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 / AASHTO T216-03 (SOP-S24)

Client	BLASLAND, BOUCK, & LEE	Boring No	NA
Client Reference	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-01	Sample No.	SS29
Lab ID	2004-221-01-02	Visual Description	BROWNISH GRAY STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED

**Consolidometer No.** 4  
**1 Division** = 0.0001 (in)

**Sample Properties**

	Initial	Final
<i>Water Content</i>		
Tare Number	40	40
Wt. Tare & WS (gm)	248.44	187.70
Wt. Tare & DS (gm)	193.57	160.44
Wt. Water (gm)	54.87	27.26
Wt. Tare (gm)	101.54	101.54
Wt. DS (gm)	92.03	58.90
Water Content (%)	59.62	46.28
<i>Sample Parameters</i>		
Sample Diameter (in)	2.5	2.5
Sample Height (in)	0.75	0.631
Sample Volume (cc)	60.33	50.76
Wt. Wet Sample + Ring (gm)	171.26	163.36
Wt. of Ring (gm)	76.70	76.70
Wt. of Wet Sample (gm)	94.56	86.66
Wet Density (pcf)	97.80	106.53
Wet Density (g/cc)	1.57	1.71
Water Content (%)	59.62	46.28
Wt. of Dry Sample (gm)	59.24	59.24
Dry Density (pcf)	61.27	72.82
Dry Density (g/cc)	0.98	1.17
Void Ratio	1.7497	1.3135
Saturation (%)	92.01	95.13
Specific Gravity	2.70	Assumed

**Test Data Summary**

Applied Pressure (tsf)	Final Dial Reading (div)	Machine Deflection (div)	Corrected Reading (div)	Height of Sample (mm)	Volume (cc)	Dry Density (g/cc)	Void Ratio
Seating	0	0	0	19.050	60.330	0.98194	1.74967
0.25	53.2	6.6	46.6	18.932	59.955	0.98807	1.73259
0.5	85.2	11.7	73.5	18.863	59.739	0.99165	1.72273
1	219.2	18.5	200.7	18.540	58.715	1.00893	1.67609
2	538.9	28.5	510.4	17.754	56.224	1.05364	1.56255
4	957.7	41.2	916.5	16.722	52.958	1.11863	1.41366
1	925.1	30.8	894.3	16.778	53.136	1.11487	1.42180
0.25	905.7	14.6	891.1	16.787	53.162	1.11433	1.42297
0.5	906.8	14.5	892.3	16.784	53.152	1.11454	1.42253
1	915.4	21.6	893.8	16.780	53.140	1.11479	1.42198
2	931.1	29.4	901.7	16.760	53.077	1.11612	1.41909
4	971.1	41.6	929.5	16.689	52.853	1.12085	1.40890
8	1284.5	53.3	1231.2	15.923	50.426	1.17479	1.29829
4	1273.7	51.3	1222.4	15.945	50.497	1.17314	1.30151
1	1241.9	36.7	1205.2	15.989	50.635	1.16994	1.30782
0.25	1209.3	19.7	1189.6	16.028	50.761	1.16704	1.31354

Tested By TM Date 7/22/04 Input Checked By CA Date 7/29/04

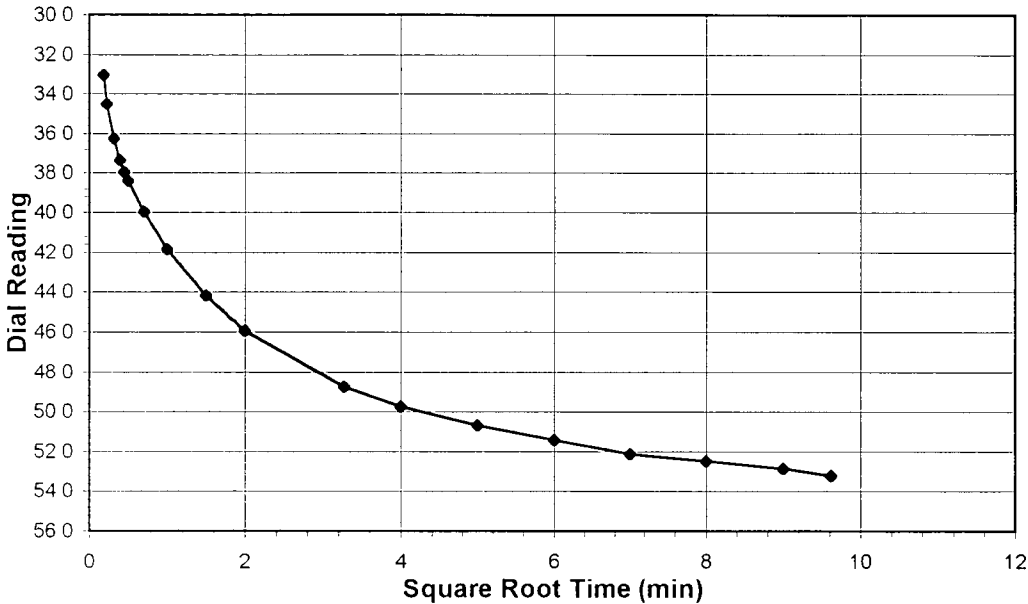


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-01	Sample No.	SS29
Lab ID	2004-221-01-02	Visual Description	BROWNISH GRAY STABILIZED MATERIAL

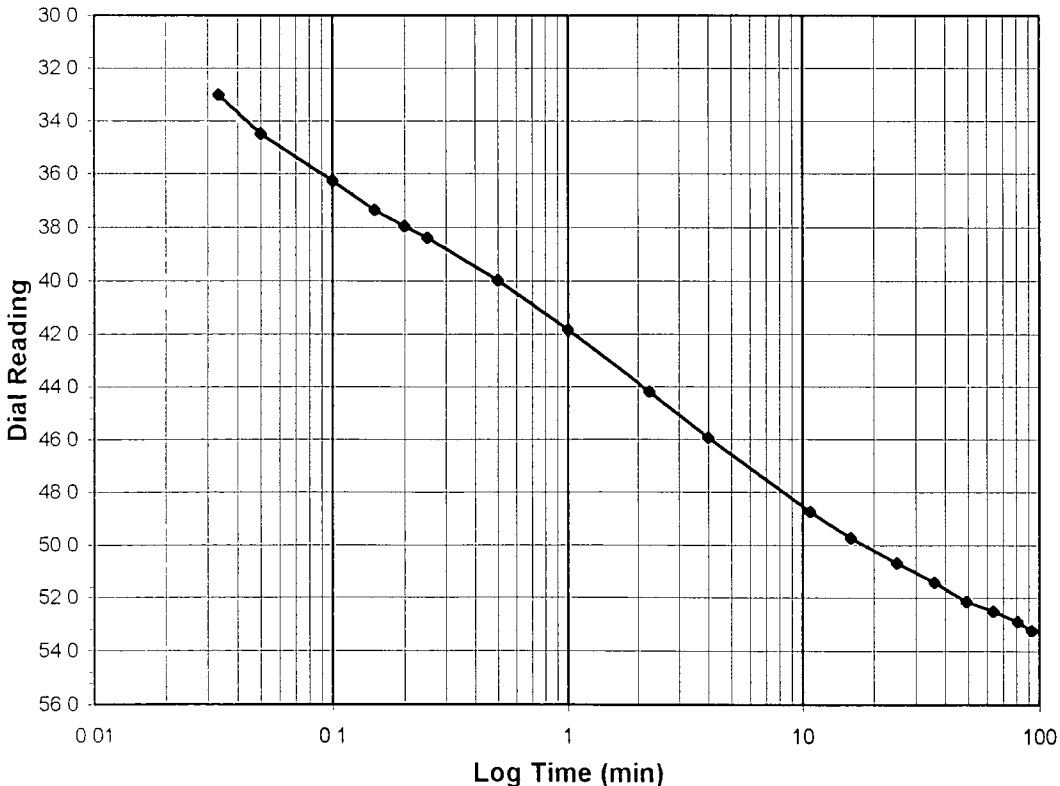
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0-0.25
Final Reading (div)	53.2
Consolidometer No.	4
1 Division (in)	0.0001

Start Date	7/22/04
Start Time	14:39:31

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	0.0
0.03	33.0
0.05	34.5
0.10	36.3
0.15	37.3
0.20	37.9
0.25	38.4
0.50	40.0
1.00	41.8
2.25	44.2
4.00	45.9
10.75	48.7
16.00	49.7
25.00	50.7
36.00	51.4
49.00	52.1
64.00	52.5
81.00	52.9
92.58	53.2



Tested By *TM* Date *7/22/04* Checked By *GU* Date *7/29/04*



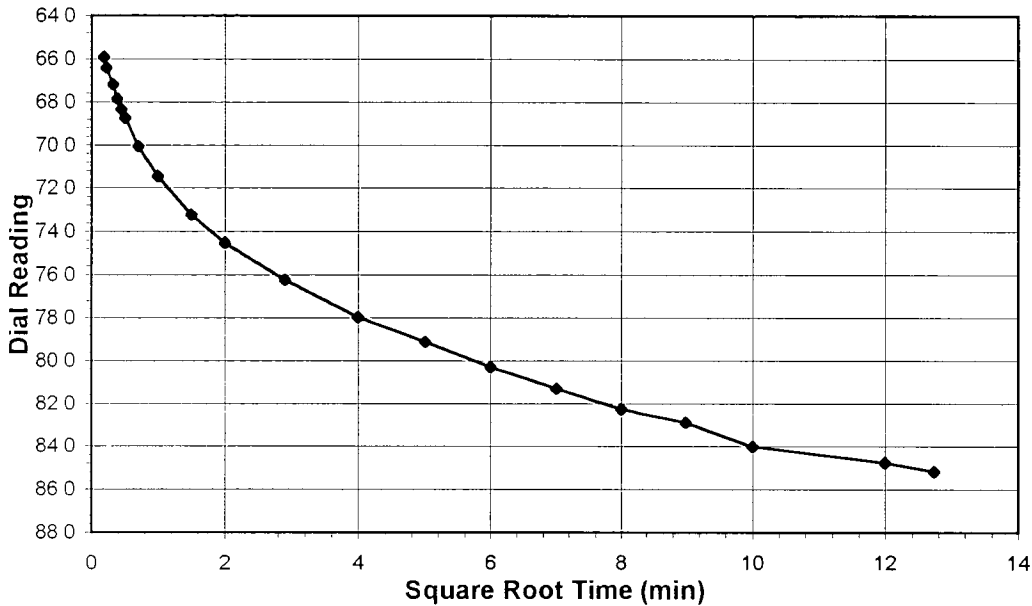


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

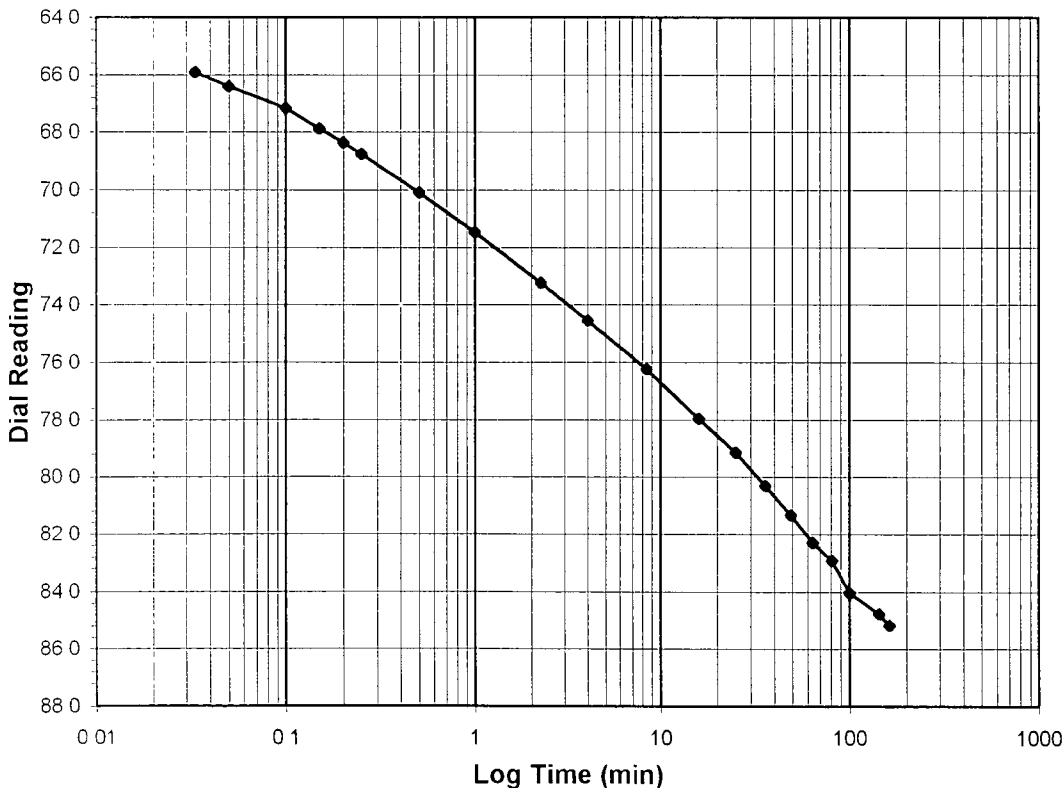
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-01	Sample No.	SS29
Lab ID	2004-221-01-02	Visual Description	BROWNISH GRAY STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.25-0.5
Final Reading (div)	85.2
Consolidometer No.	4
1 Division (in)	0.0001
Start Date	7/23/04
Start Time	9:30:47

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>53.2</b>
0.03	65.9
0.05	66.4
0.10	67.2
0.15	67.9
0.20	68.3
0.25	68.7
0.50	70.1
1.00	71.5
2.25	73.2
4.00	74.5
8.45	76.2
16.00	78.0
25.00	79.1
36.00	80.3
49.00	81.3
64.00	82.3
81.00	82.9
100.00	84.0
144.00	84.8
162.20	85.2



Tested By *TM* Date *7/23/04* Checked By *GU* Date *7/29/04*



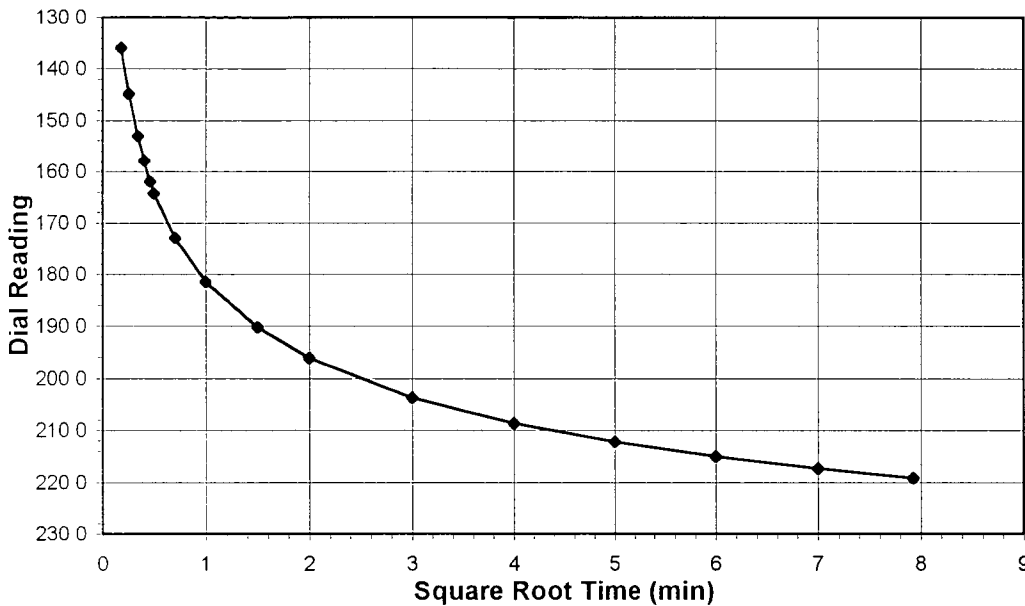
# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE  
 Client Project: GEHR TREATABILITY 204.302  
 Project No.: 2004-221-01  
 Lab ID: 2004-221-01-02

Boring No.: NA  
 Depth (ft): NA  
 Sample No.: SS29  
 Visual Description: BROWNISH GRAY STABILIZED MATERIAL

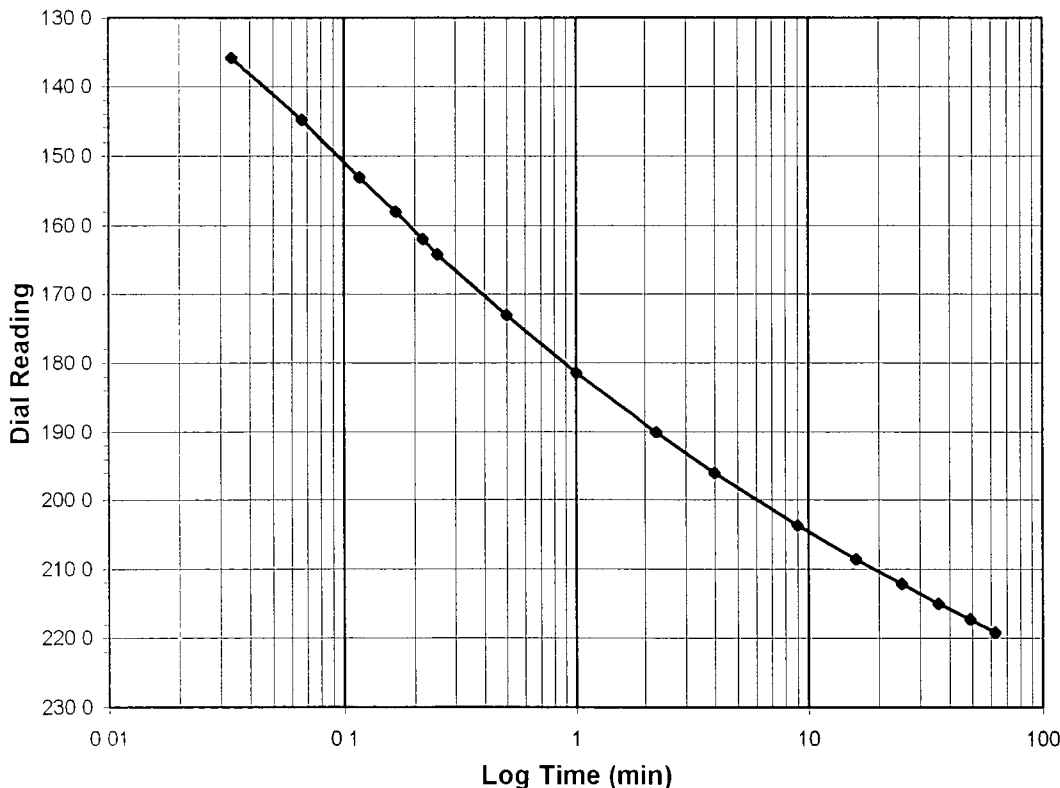
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf): 0.5-1.0  
 Final Reading (div): 219.2  
 Consolidometer No.: 4  
 1 Division (in): 0.0001

Start Date: 7/23/04  
 Start Time: 12:16:04

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>85.2</b>
0.03	135.9
0.07	144.8
0.12	153.1
0.17	157.9
0.22	162.0
0.25	164.2
0.50	173.1
1.00	181.5
2.25	190.2
4.00	196.1
8.98	203.7
16.00	208.6
25.00	212.2
36.00	215.1
49.00	217.3
62.82	219.2



Tested By: TM Date: 7/23/04 Checked By: (G) Date: 7/29/04

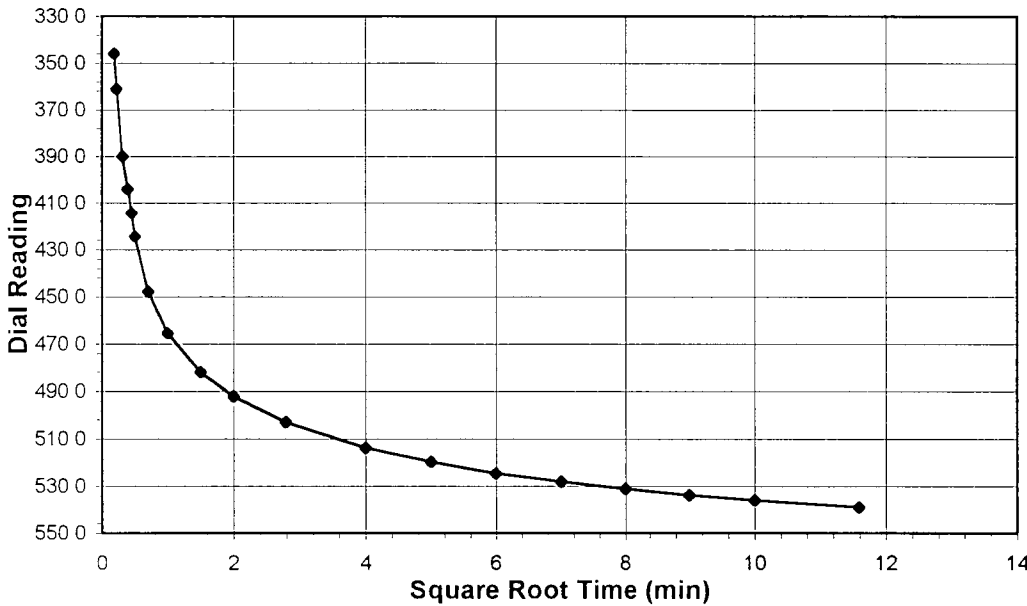


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-01	Sample No.	SS29
Lab ID	2004-221-01-02	Visual Description	BROWNISH GRAY STABILIZED MATERIAL

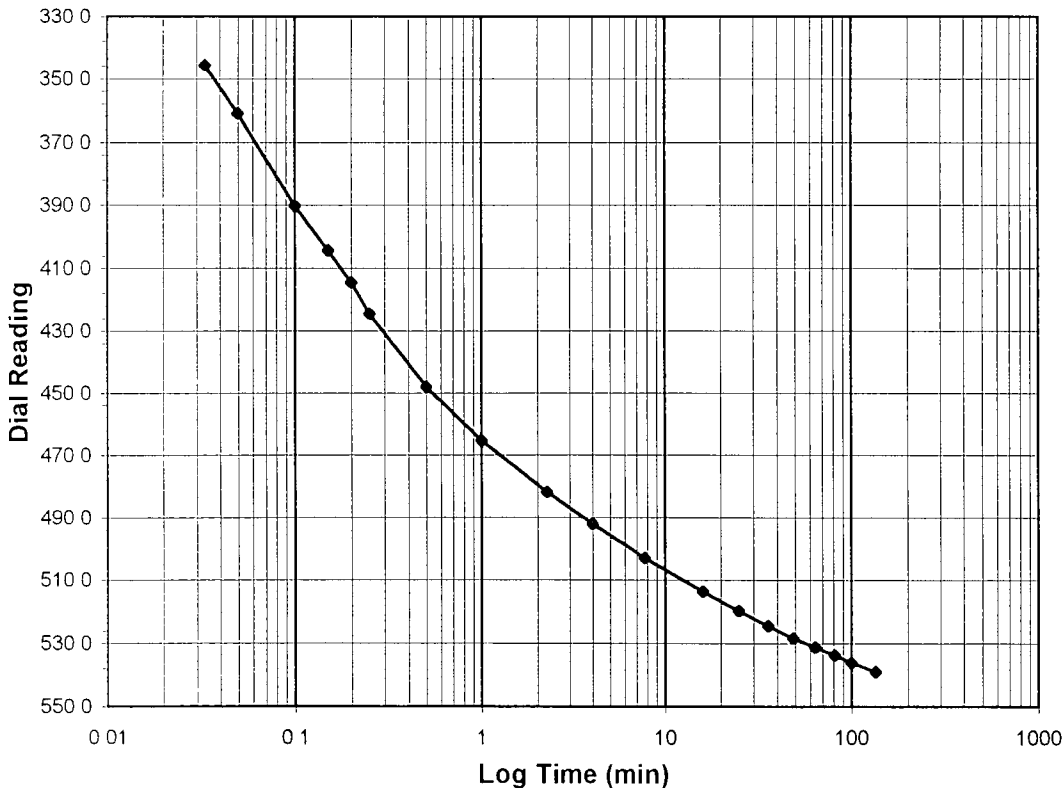
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



<b>Test Load (tsf)</b>	<b>1.0-2.0</b>
<b>Final Reading (div)</b>	<b>538.9</b>
Consolidometer No.	4
1 Division (in)	0.0001

Start Date	7/23/04
Start Time	13:23:27

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>219.2</b>
0.03	345.8
0.05	361.0
0.10	390.1
0.15	404.2
0.20	414.4
0.25	424.4
0.50	447.9
1.00	465.4
2.25	481.9
4.00	492.2
7.78	503.0
16.00	513.7
25.00	519.8
36.00	524.5
49.00	528.2
64.00	531.1
81.00	533.7
100.00	536.0
134.30	538.9



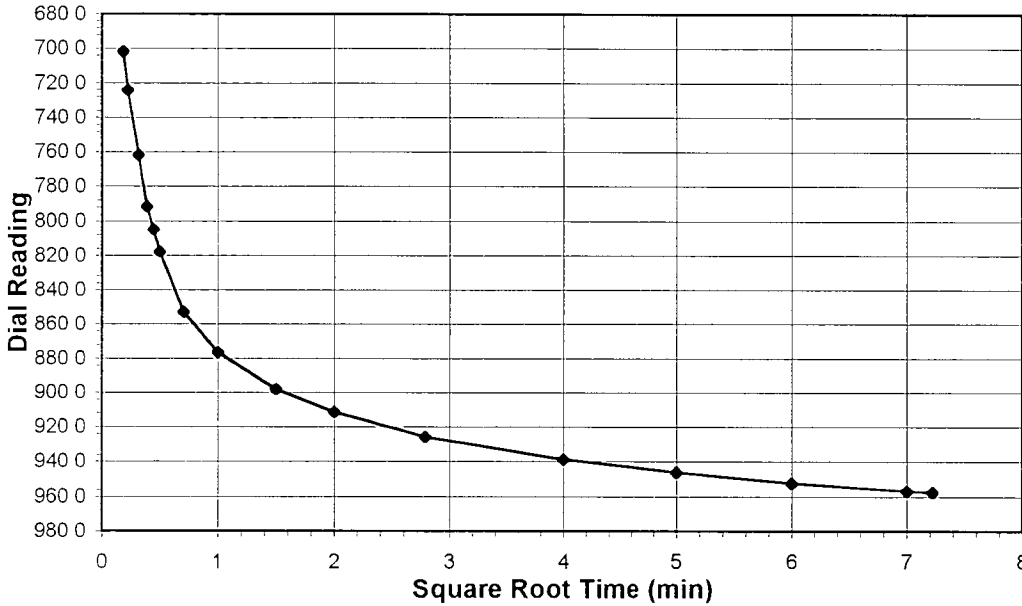
Tested By *TM* Date *7/23/04* Checked By *GU* Date *7/29/04*

# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-01	Sample No.	SS29
Lab ID	2004-221-01-02	Visual Description	BROWNISH GRAY STABILIZED MATERIAL

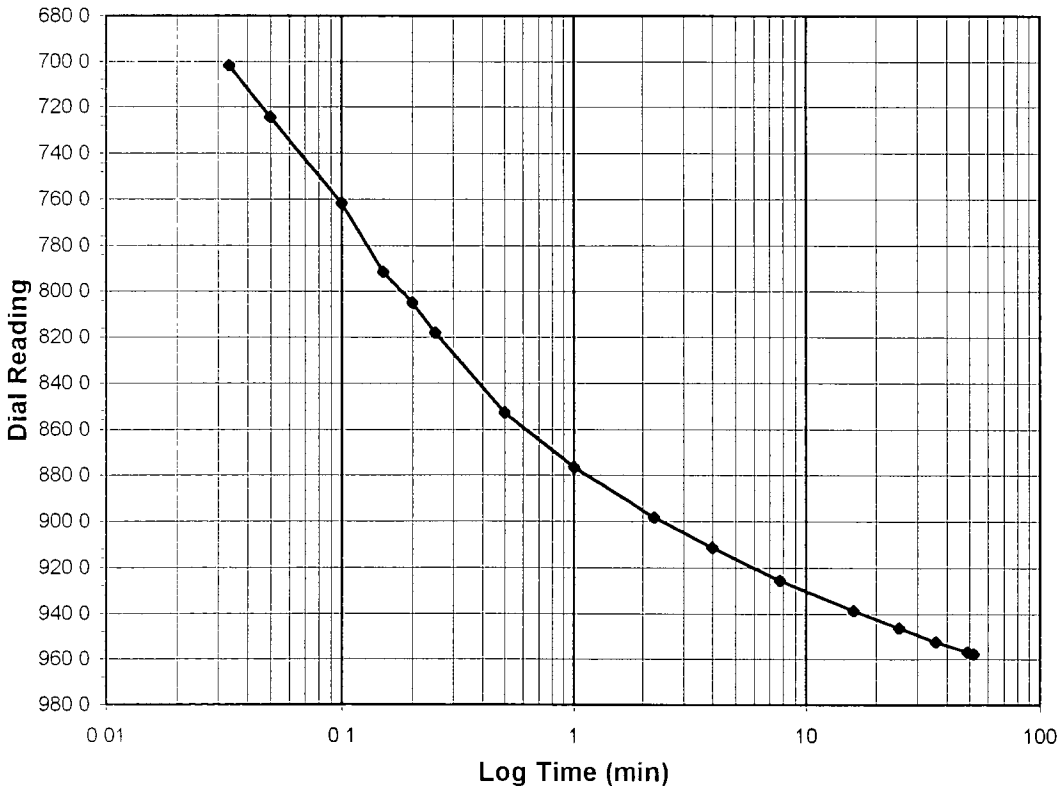
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



<b>Test Load</b>	(tsf)	<b>2.0-4.0</b>
<b>Final Reading</b>	(div)	<b>957.7</b>
Consolidometer No.		4
1 Division	(in)	0.0001

Start Date	7/23/04
Start Time	15:39:58

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>538.9</b>
0.03	701.9
0.05	724.2
0.10	761.7
0.15	791.6
0.20	804.9
0.25	818.0
0.50	852.8
1.00	876.6
2.25	898.2
4.00	911.3
7.77	925.7
16.00	938.7
25.00	946.2
36.00	952.4
49.00	956.8
52.12	957.7



Tested By TM Date 7/23/04 Checked By GU Date 7/29/04

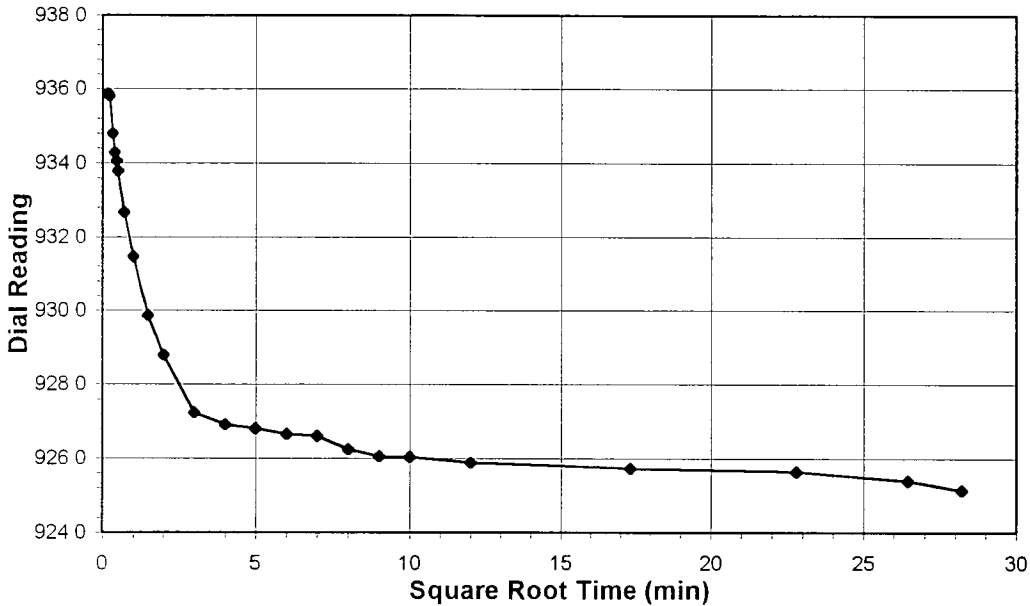


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-01	Sample No.	SS29
Lab ID	2004-221-01-02	Visual Description	BROWNISH GRAY STABILIZED MATERIAL

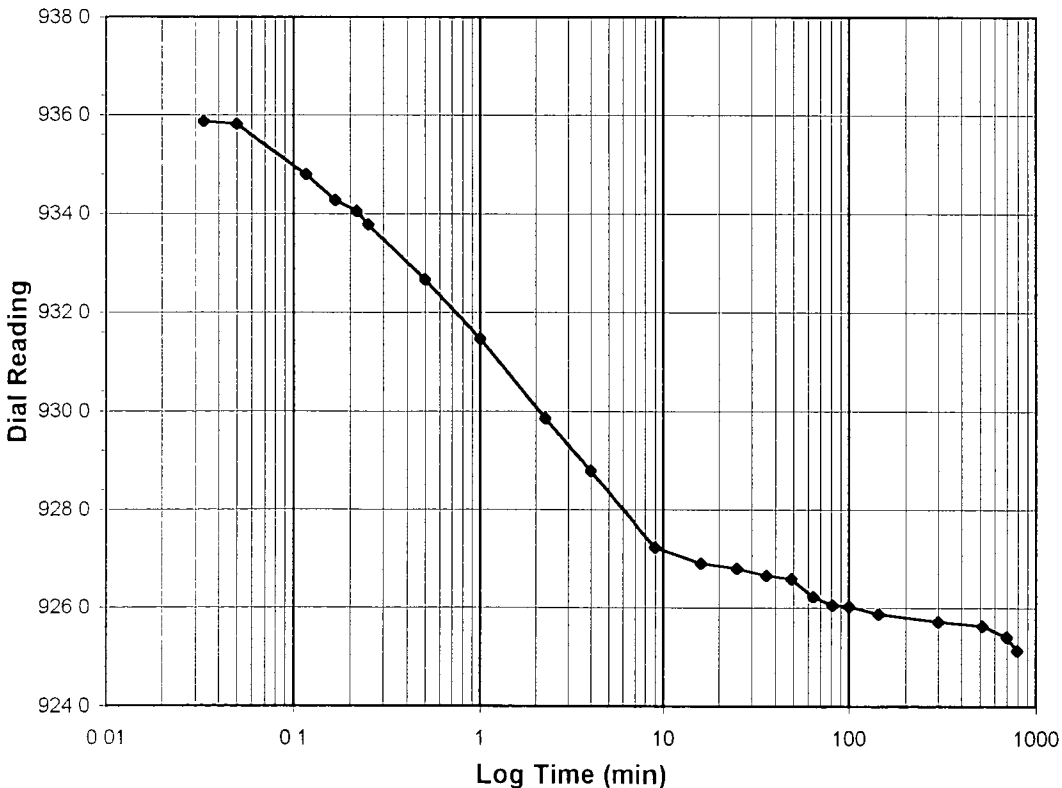
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	4.0-1.0
Final Reading (div)	925.1
Consolidometer No.	4
1 Division (in)	0.0001

Start Date	7/23/04
Start Time	16:36:12

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>957.7</b>
0.03	935.9
0.05	935.8
0.12	934.8
0.17	934.3
0.22	934.1
0.25	933.8
0.50	932.7
1.00	931.5
2.25	929.9
4.00	928.8
9.02	927.2
16.00	926.9
25.00	926.8
36.00	926.7
49.00	926.6
64.00	926.2
81.00	926.1
100.00	926.0
144.00	925.9
300.00	925.7
520.00	925.6
700.00	925.4
795.62	925.1



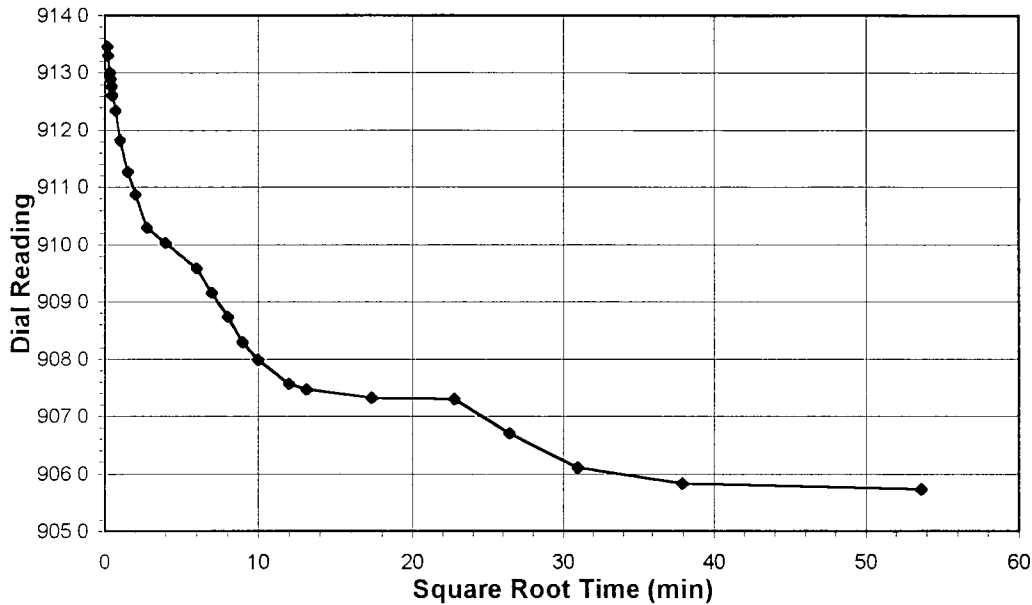
Tested By TM Date 7/23/04 Checked By GU Date 7/29/04



**ONE DIMENSIONAL CONSOLIDATION**  
ASTM D 2435-96 (SOP-S24A)

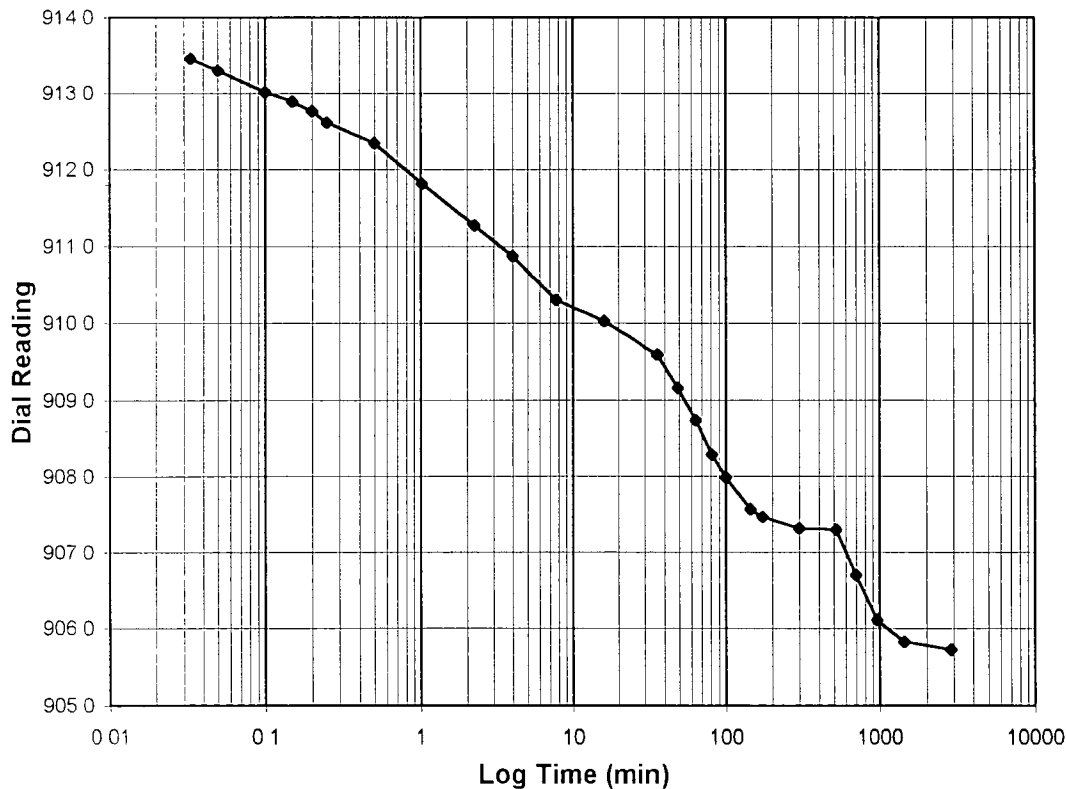
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-01	Sample No.	SS29
Lab ID	2004-221-01-02	Visual Description	BROWNISH GRAY STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	1.0-0.25
Final Reading (div)	905.7
Consolidometer No.	4
1 Division (in)	0.0001
Start Date	7/24/04
Start Time	6:03:59

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>925.1</b>
0.03	913.5
0.05	913.3
0.10	913.0
0.15	912.9
0.20	912.8
0.25	912.6
0.50	912.3
1.02	911.8
2.25	911.3
4.00	910.9
7.73	910.3
16.00	910.0
36.00	909.6
49.00	909.2
64.00	908.7
81.00	908.3
100.00	908.0
144.00	907.6
172.30	907.5
300.00	907.3
520.00	907.3
700.00	906.7
960.00	906.1
1440.00	905.8
2880.00	905.7



Tested By TM Date 7/24/04 Checked By GU Date 7/29/14

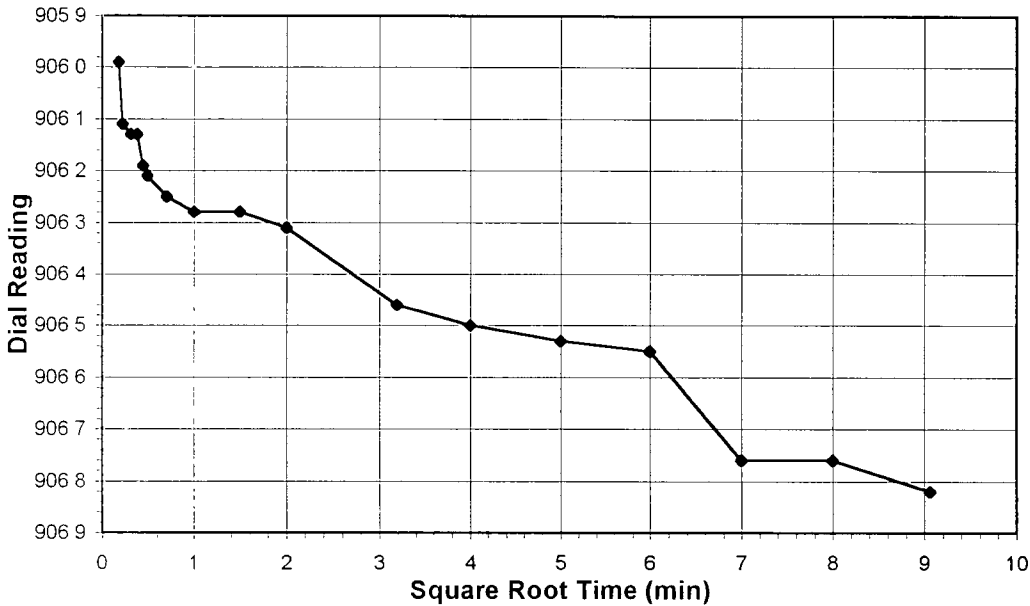


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-01	Sample No.	SS29
Lab ID	2004-221-01-02	Visual Description	BROWNISH GRAY STABILIZED MATERIAL

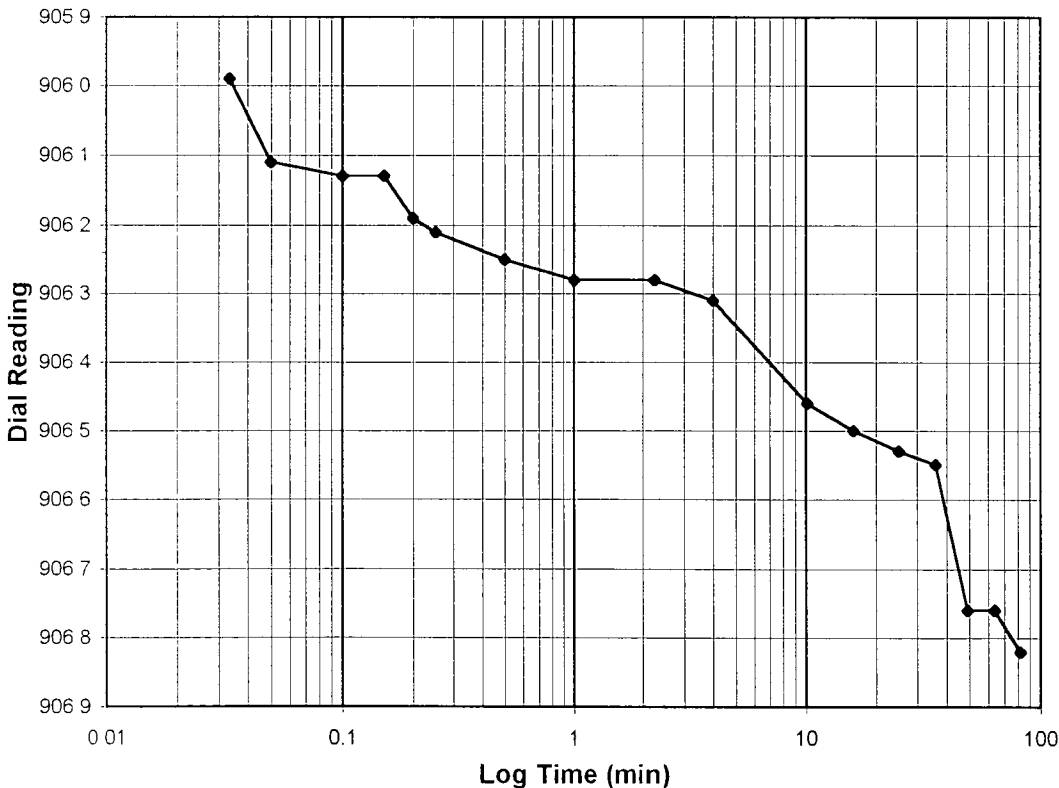
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.25-0.5
Final Reading (div)	906.8
Consolidometer No.	4
1 Division (in)	0.0001

Start Date	7/26/04
Start Time	10:10:03

Elapsed Time (min)	Dial Reading (div)
Initial	905.7
0.03	906.0
0.05	906.1
0.10	906.1
0.15	906.1
0.20	906.2
0.25	906.2
0.50	906.3
1.00	906.3
2.25	906.3
4.00	906.3
10.18	906.5
16.00	906.5
25.00	906.5
36.00	906.6
49.00	906.8
64.00	906.8
82.15	906.8



Tested By *TM* Date *7/26/04* Checked By *GU* Date *7/29/04*

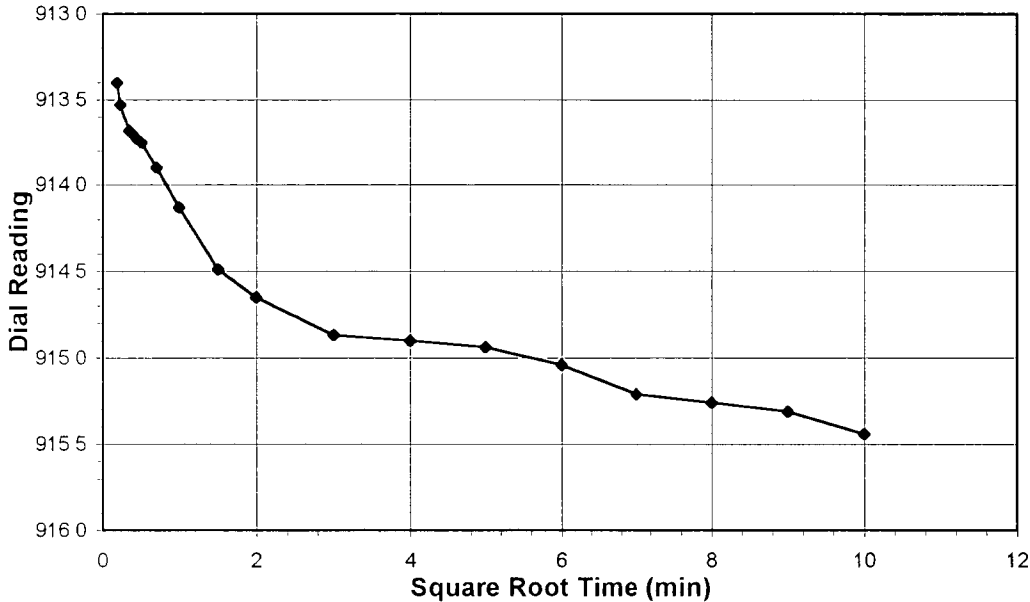


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

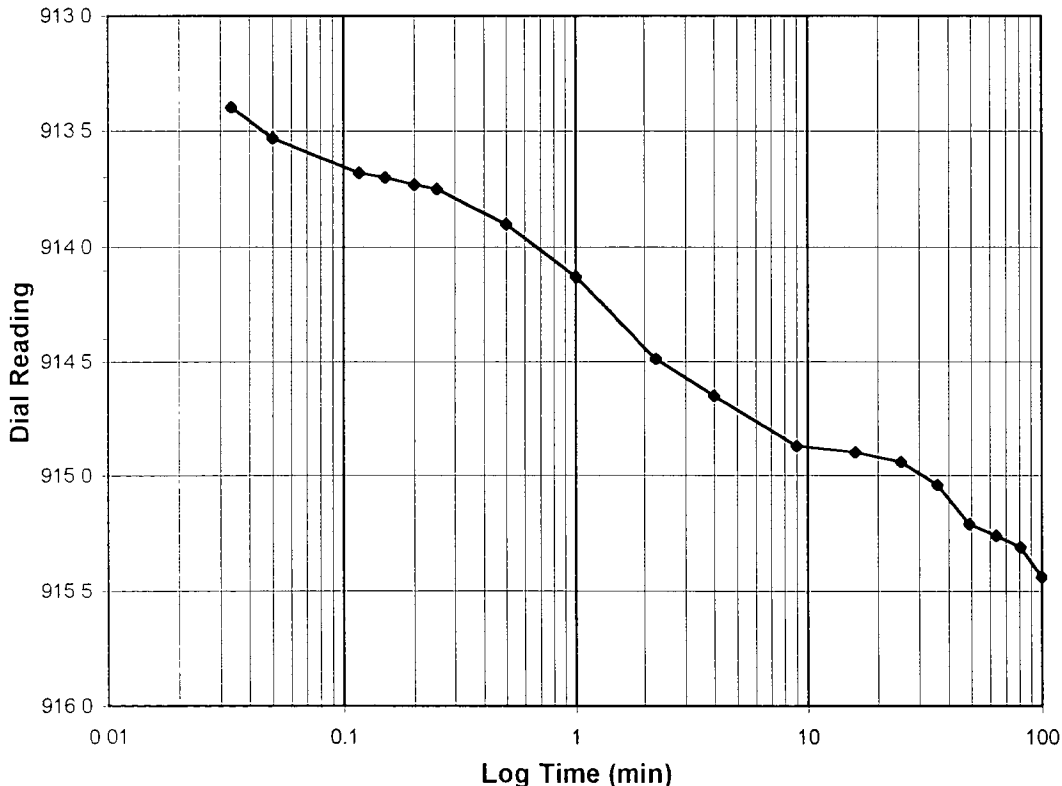
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-01	Sample No.	SS29
Lab ID	2004-221-01-02	Visual Description	BROWNISH GRAY STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.5-1.0
Final Reading (div)	915.4
Consolidometer No.	4
1 Division (in)	0.0001
Start Date	7/26/04
Start Time	11:34:48

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>906.8</b>
0.03	913.4
0.05	913.5
0.12	913.7
0.15	913.7
0.20	913.7
0.25	913.8
0.50	913.9
1.00	914.1
2.25	914.5
4.00	914.7
9.02	914.9
16.00	914.9
25.00	914.9
36.00	915.0
49.00	915.2
64.00	915.3
81.00	915.3
100.00	915.4



Tested By TM Date 7/26/04 Checked By GU Date 7/29/04



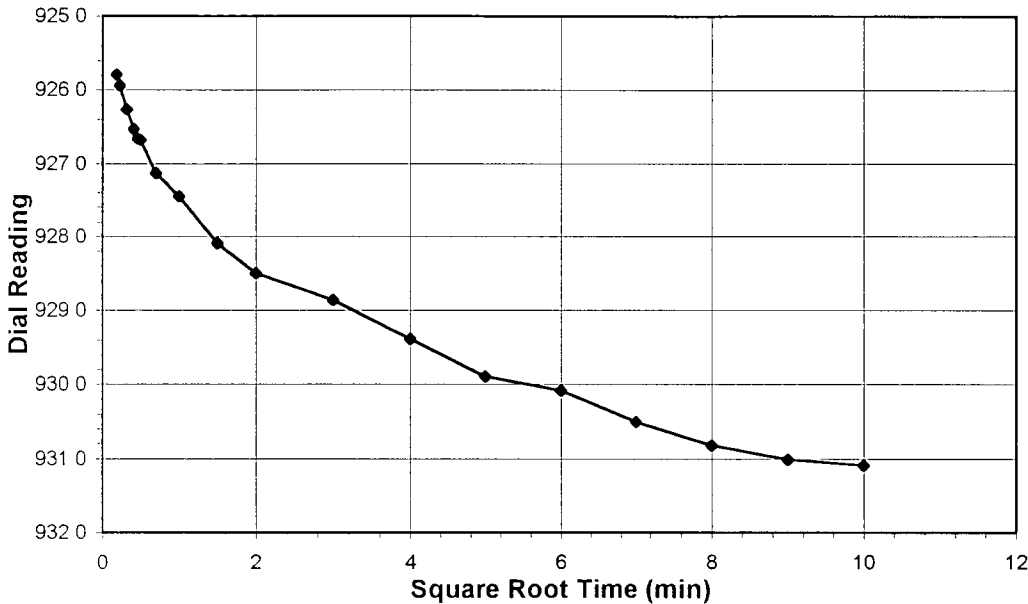


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

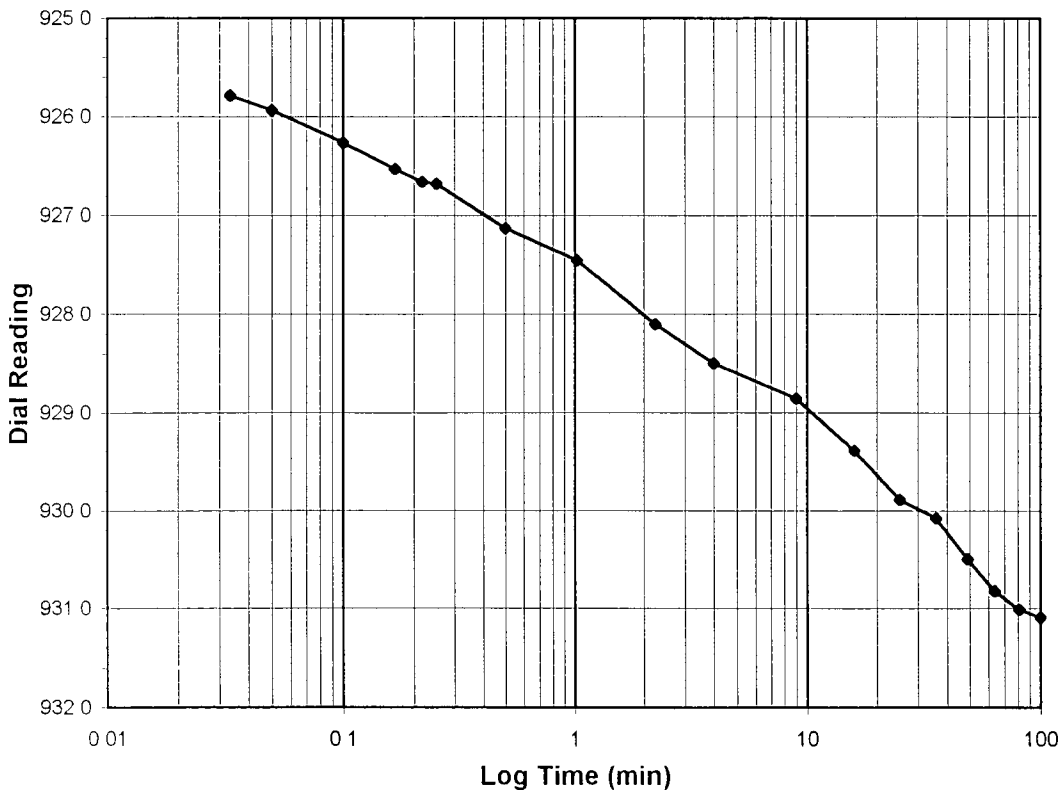
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-01	Sample No.	SS29
Lab ID	2004-221-01-02	Visual Description	BROWNISH GRAY STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	1.0-2.0
Final Reading (div)	931.1
Consolidometer No.	4
1 Division (in)	0.0001
Start Date	7/26/04
Start Time	13:23:36

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>915.4</b>
0.03	925.8
0.05	925.9
0.10	926.3
0.17	926.5
0.22	926.7
0.25	926.7
0.50	927.1
1.02	927.5
2.25	928.1
4.00	928.5
9.00	928.9
16.00	929.4
25.00	929.9
36.00	930.1
49.00	930.5
64.00	930.8
81.00	931.0
100.00	931.1



Tested By TM Date 7/26/04 Checked By GU Date 7/29/04

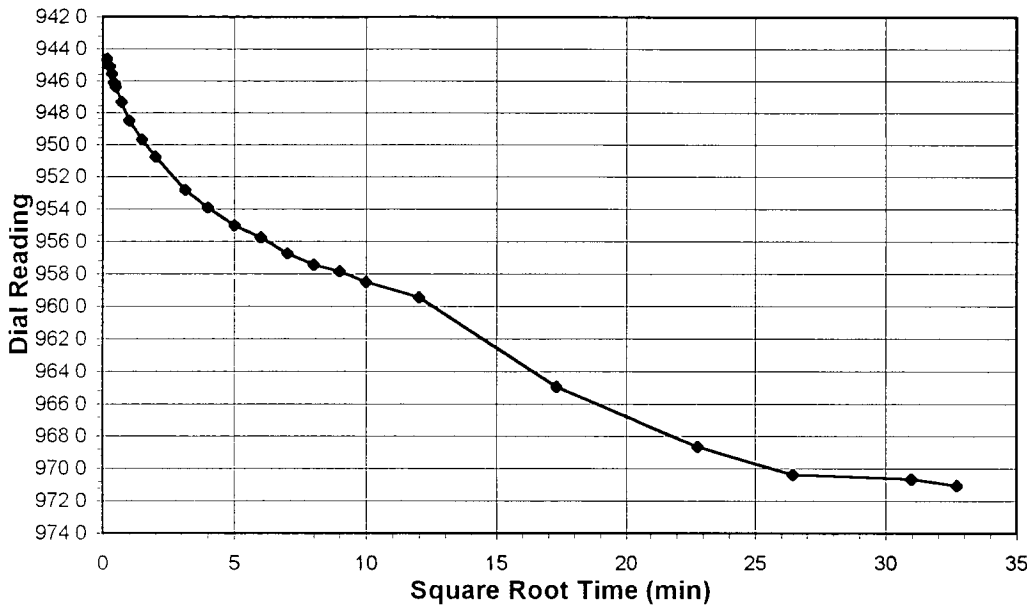


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-01	Sample No.	SS29
Lab ID	2004-221-01-02	Visual Description	BROWNISH GRAY STABILIZED MATERIAL

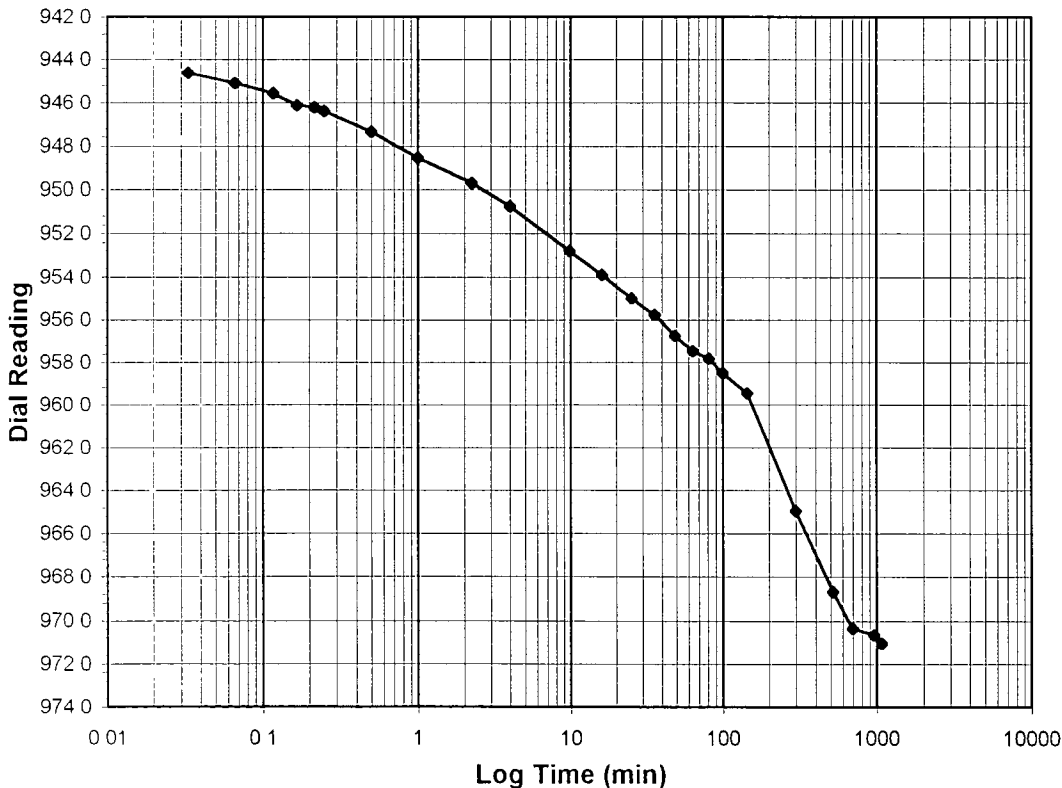
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	2.0-4.0
Final Reading (div)	971.1
Consolidometer No.	4
1 Division (in)	0.0001

Start Date	7/26/04
Start Time	15:27:43

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>931.1</b>
0.03	944.6
0.07	945.1
0.12	945.6
0.17	946.1
0.22	946.2
0.25	946.4
0.50	947.4
1.00	948.5
2.25	949.7
4.00	950.8
9.78	952.8
16.00	953.9
25.00	955.0
36.00	955.8
49.02	956.8
64.00	957.5
81.00	957.8
100.00	958.5
144.00	959.5
300.00	965.0
520.00	968.7
700.00	970.4
960.00	970.7
1071.03	971.1



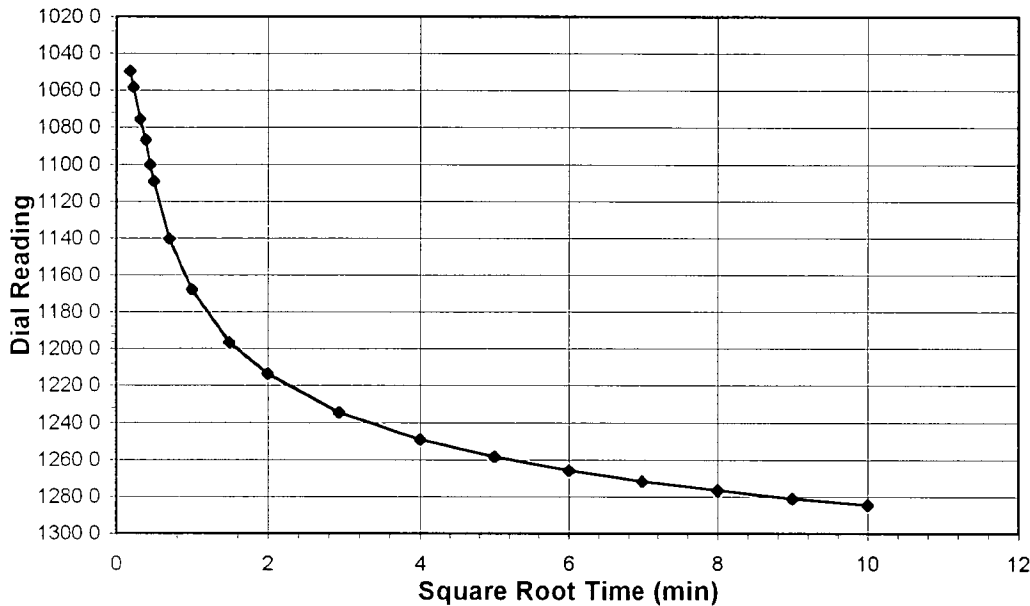
Tested By TM Date 7/26/04 Checked By GU Date 7/29/04

# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-01	Sample No.	SS29
Lab ID	2004-221-01-02	Visual Description	BROWNISH GRAY STABILIZED MATERIAL

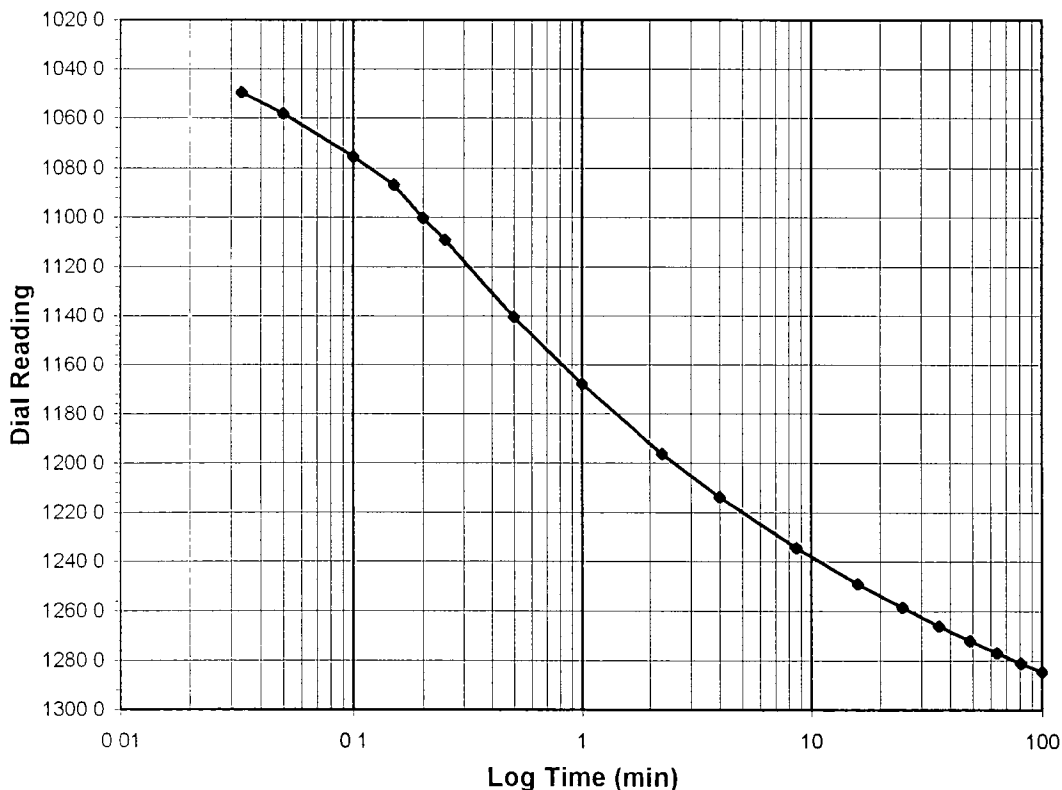
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	4.0-8.0
Final Reading (div)	1284.5
Consolidometer No.	4
1 Division (in)	0.0001

Start Date	7/27/04
Start Time	9:28:38

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>971.1</b>
0.03	1049.7
0.05	1058.2
0.10	1075.5
0.15	1086.8
0.20	1100.1
0.25	1109.0
0.50	1140.4
1.00	1167.9
2.25	1196.4
4.00	1213.8
8.63	1234.5
16.00	1249.1
25.00	1258.5
36.00	1265.9
49.00	1271.9
64.00	1276.8
81.00	1280.9
100.00	1284.5



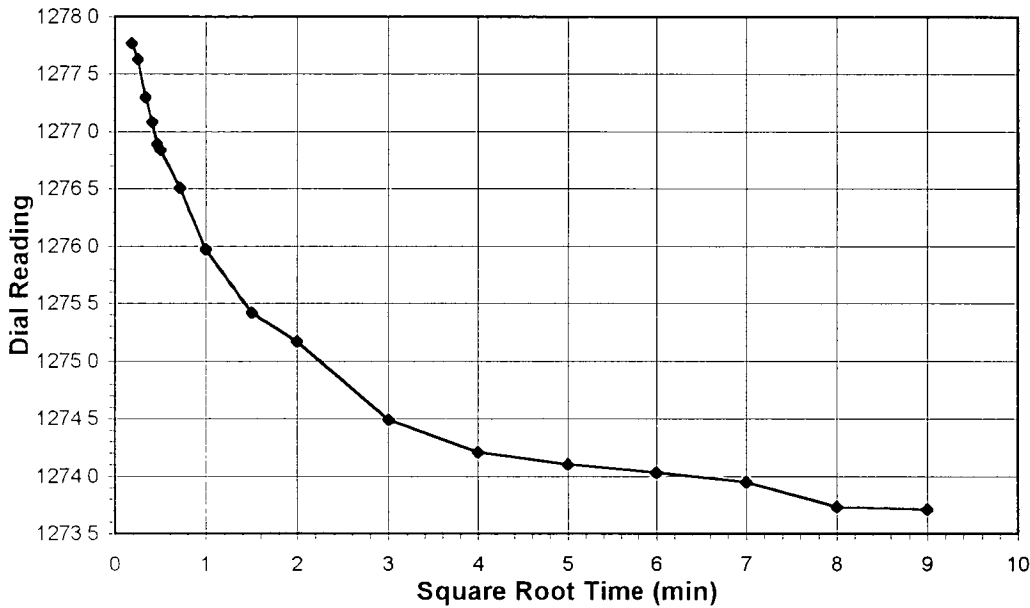
Tested By *TM* Date *7/27/04* Checked By *GU* Date *7/29/04*

# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

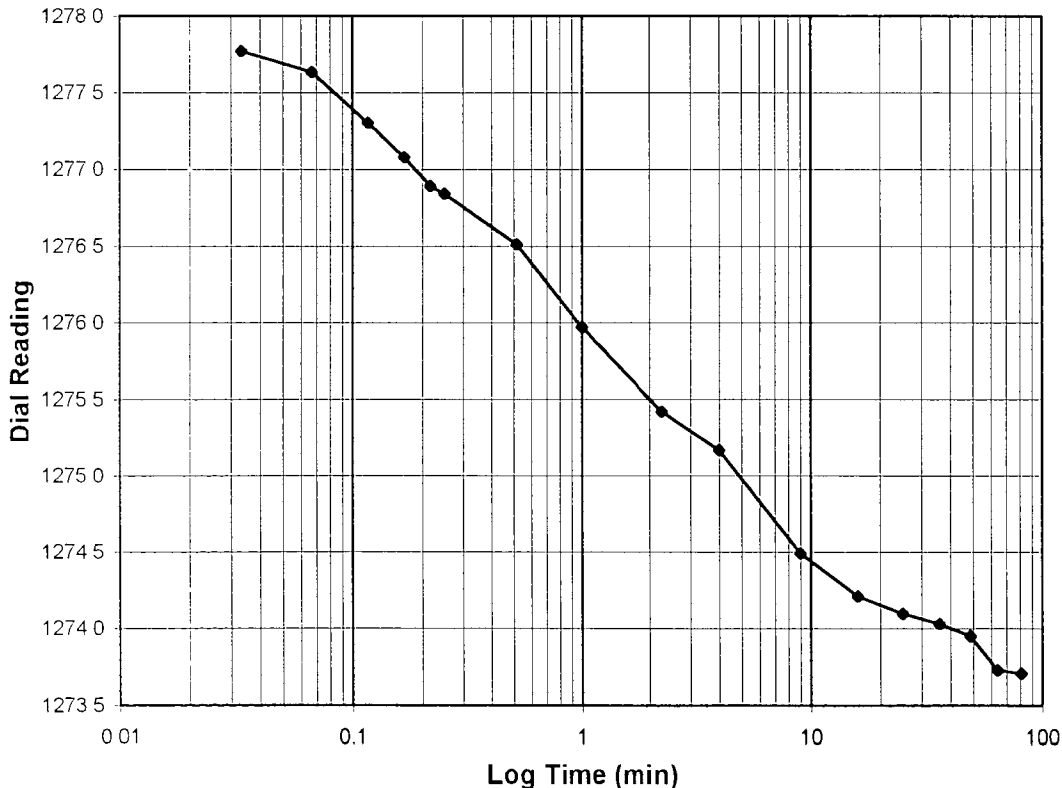
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-01	Sample No.	SS29
Lab ID	2004-221-01-02	Visual Description	BROWNISH GRAY STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



<b>Test Load (tsf)</b>	<b>8.0-4.0</b>
<b>Final Reading (div)</b>	<b>1273.7</b>
Consolidometer No.	4
1 Division (in)	0.0001
<b>Start Date</b>	<b>7/27/04</b>
<b>Start Time</b>	<b>11:33:56</b>

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>1284.5</b>
0.03	1277.8
0.07	1277.6
0.12	1277.3
0.17	1277.1
0.22	1276.9
0.25	1276.8
0.52	1276.5
1.00	1276.0
2.25	1275.4
4.00	1275.2
9.02	1274.5
16.00	1274.2
25.00	1274.1
36.00	1274.0
49.00	1274.0
64.00	1273.7
81.00	1273.7



Tested By **TM** Date **7/27/04** Checked By **GU** Date **7/29/04**

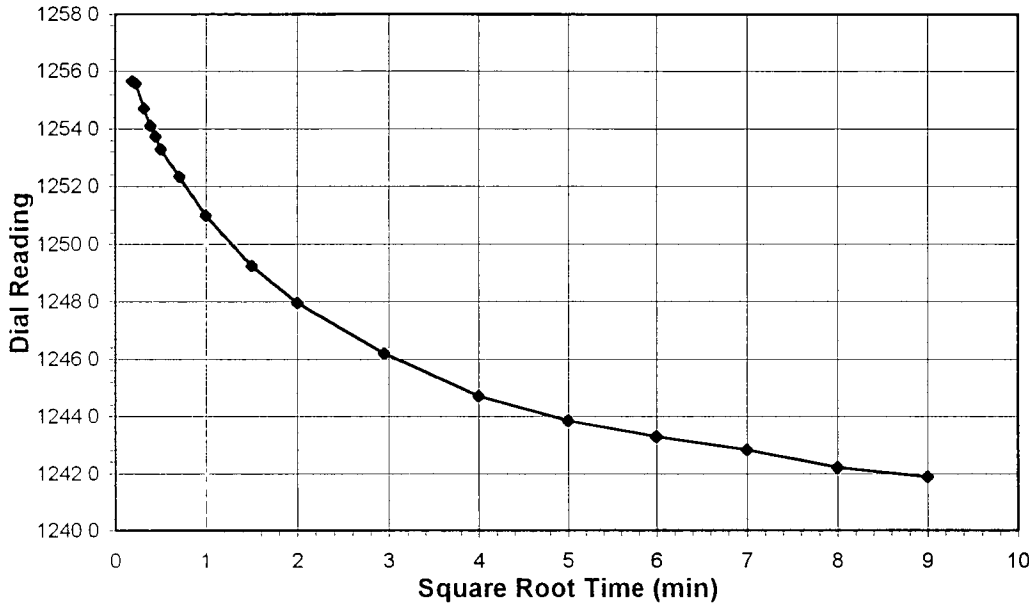


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

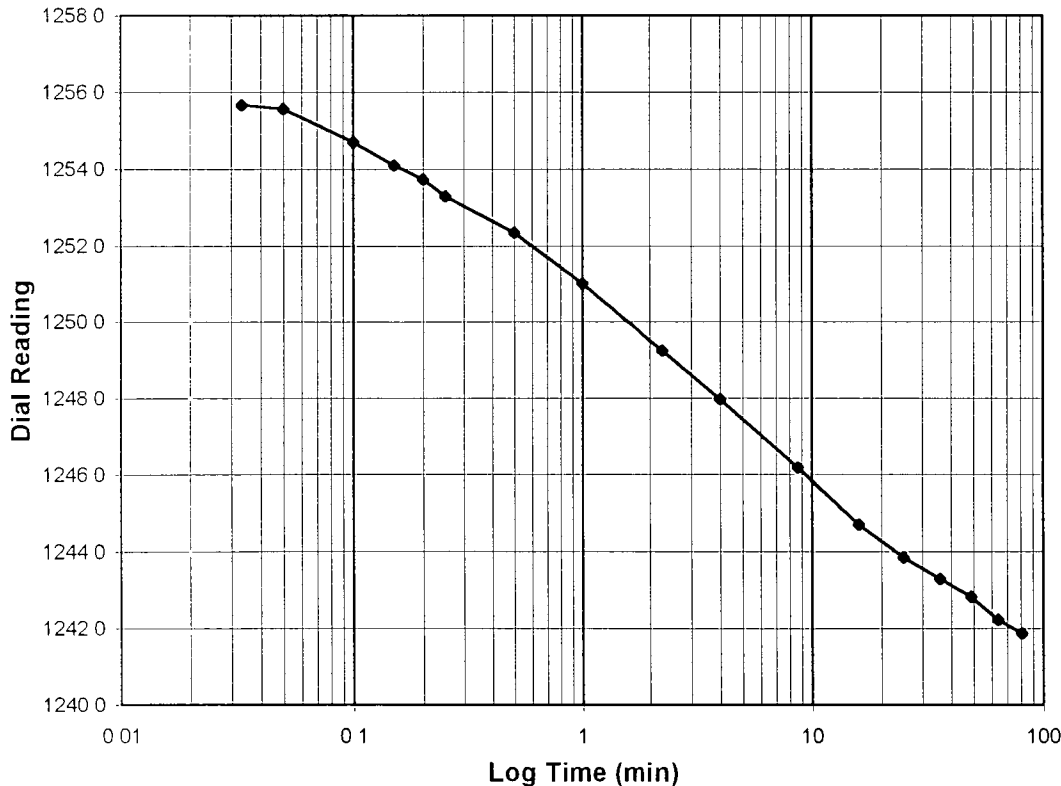
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-01	Sample No.	SS29
Lab ID	2004-221-01-02	Visual Description	BROWNISH GRAY STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	4.0-1.0
Final Reading (div)	1241.9
Consolidometer No.	4
1 Division (in)	0.0001
Start Date	7/27/04
Start Time	13:08:28

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>1273.7</b>
0.03	1255.7
0.05	1255.6
0.10	1254.7
0.15	1254.1
0.20	1253.7
0.25	1253.3
0.50	1252.3
1.00	1251.0
2.25	1249.2
4.00	1248.0
8.68	1246.2
16.00	1244.7
25.00	1243.9
36.00	1243.3
49.00	1242.8
64.02	1242.2
81.00	1241.9



Tested By *TM* Date *7/27/04* Checked By *GU* Date *7/29/04*



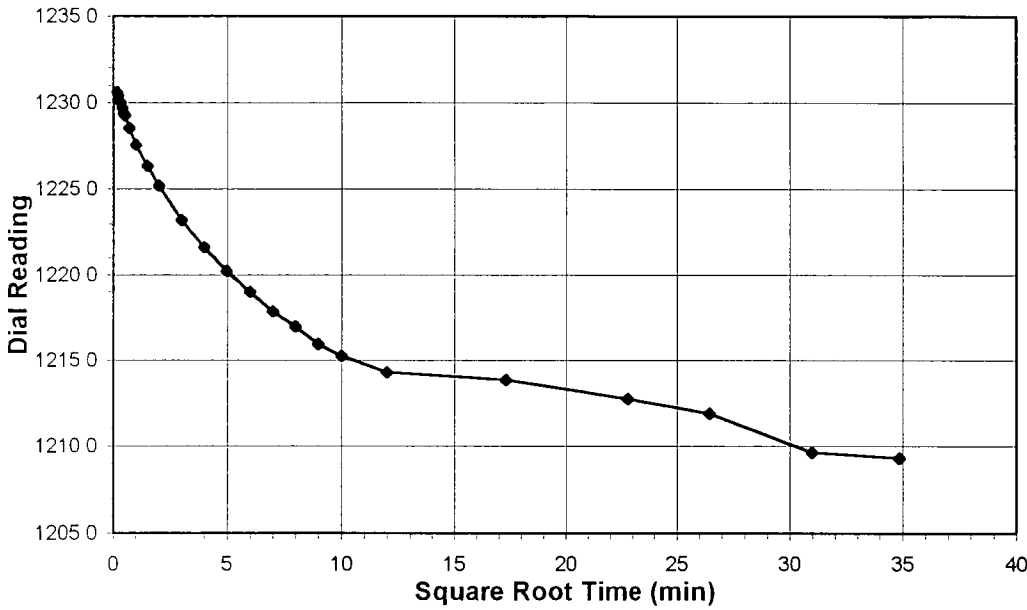
# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE  
 Client Project: GEHR TREATABILITY 204.302  
 Project No.: 2004-221-01  
 Lab ID: 2004-221-01-02

Boring No.: NA  
 Depth (ft): NA  
 Sample No.: SS29  
 Visual Description: BROWNISH GRAY STABILIZED MATERIAL

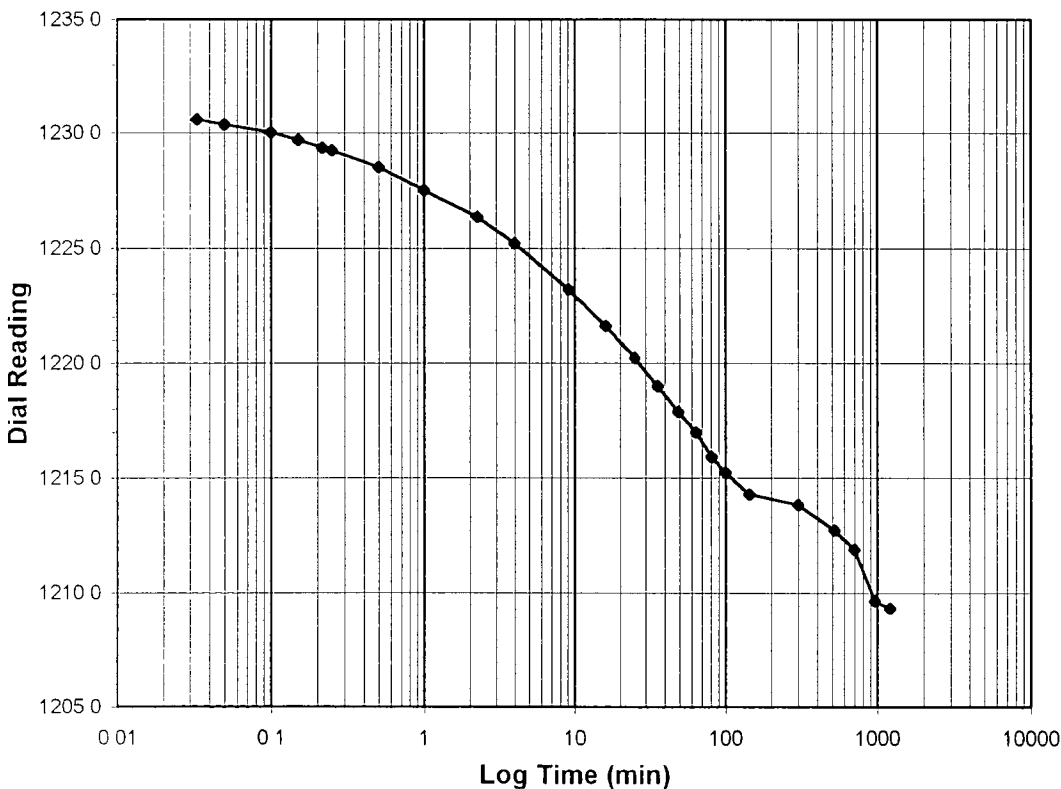
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf): 1.0-0.25  
 Final Reading (div): 1209.3  
 Consolidometer No.: 4  
 1 Division (in): 0.0001

Start Date: 7/27/04  
 Start Time: 14:40:45

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>1241.9</b>
0.03	1230.6
0.05	1230.4
0.10	1230.0
0.15	1229.7
0.22	1229.4
0.25	1229.3
0.50	1228.5
1.00	1227.5
2.25	1226.4
4.00	1225.2
9.04	1223.2
16.00	1221.6
25.00	1220.2
36.00	1219.0
49.00	1217.9
64.00	1217.0
81.00	1215.9
100.00	1215.2
144.00	1214.3
300.00	1213.8
520.00	1212.7
700.00	1211.9
960.00	1209.7
1215.68	1209.3



Tested By: TM Date: 7/27/04 Checked By: GU Date: 7/29/04

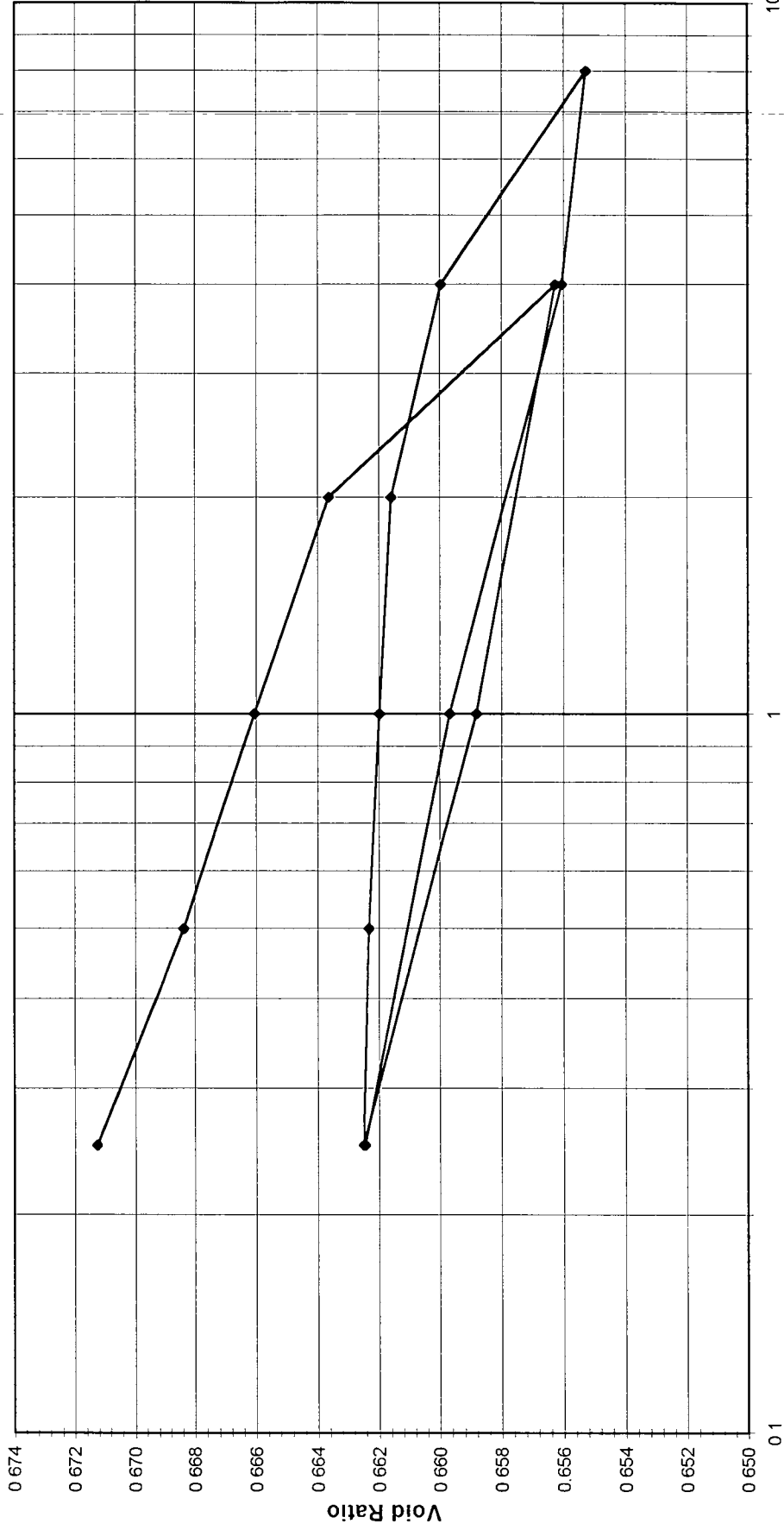


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 / AASHTO T216-03 (SOP-S24)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Reference	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-01	Sample No.	SS09
Lab ID	2004-221-01-03	Visual Description	BLACK STABILIZED MATERIAL WITH ROCK FRAGMENTS

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Log P (tsf)

Tested By TM Date 8/10/04 Approved By DB Date 8/23/04



# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 / AASHTO T216-03 (SOP-S24)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Reference	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-01	Sample No.	SS09
Lab ID	2004-221-01-03	Visual Description	BLACK STABILIZED MATERIAL WITH ROCK FRAGMENTS

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED

Consolidometer No. 4  
 1 Division = 0.0001 (in)

### Sample Properties

	Initial	Final
<i>Wafer Content</i>		
Tare Number	444	1399
Wt. Tare & WS (gm)	250.15	137.12
Wt. Tare & DS (gm)	225.13	117.47
Wt. Water (gm)	25.02	19.65
Wt. Tare (gm)	99.83	38.18
Wt. DS (gm)	125.30	79.29
Water Content (%)	19.97	24.78
<i>Sample Parameters</i>		
Sample Diameter (in)	2.5	2.5
Sample Height (in)	0.75	0.745
Sample Volume (cc)	60.33	59.89
Wt. Wet Sample + Ring (gm)	193.40	198.08
Wt. of Ring (gm)	76.70	76.70
Wt. of Wet Sample (gm)	116.70	121.38
Wet Density (pcf)	120.70	126.46
Wet Density (g/cc)	1.93	2.03
Water Content (%)	19.97	24.78
Wt. of Dry Sample (gm)	97.28	97.28
Dry Density (pcf)	100.61	101.34
Dry Density (g/cc)	1.61	1.62
Void Ratio	0.6745	0.6624
Saturation (%)	79.93	101.01
Specific Gravity	2.70	Assumed

### Test Data Summary

Applied Pressure (tsf)	Final Dial Reading (div)	Machine Deflection (div)	Corrected Reading (div)	Height of Sample (mm)	Volume (cc)	Dry Density (g/cc)	Void Ratio
Seating	0	0	0	19.050	60.330	1.61240	0.67452
0.25	21.2	6.6	14.6	19.013	60.212	1.61555	0.67126
0.5	39.3	11.7	27.6	18.980	60.108	1.61836	0.66836
1	56.4	18.5	37.9	18.954	60.025	1.62059	0.66606
2	77.3	28.5	48.8	18.926	59.937	1.62296	0.66363
4	123.0	41.2	81.8	18.842	59.672	1.63018	0.65626
1	101.2	30.8	70.4	18.871	59.764	1.62768	0.65880
0.25	68.5	14.6	53.9	18.913	59.896	1.62407	0.66249
0.5	70.2	15.5	54.7	18.911	59.890	1.62425	0.66231
1	77.8	21.6	56.2	18.907	59.878	1.62457	0.66197
2	87.3	29.4	57.9	18.903	59.864	1.62494	0.66159
4	106.8	41.6	65.2	18.884	59.805	1.62654	0.65997
8	139.5	53.3	86.2	18.831	59.636	1.63115	0.65528
4	130.0	47.3	82.7	18.840	59.665	1.63038	0.65606
1	103.2	36.7	66.5	18.881	59.795	1.62682	0.65967
0.25	72.7	18.6	54.1	18.913	59.895	1.62412	0.66244

Tested By TM Date 8/10/04 Input Checked By GL Date 8/23/04

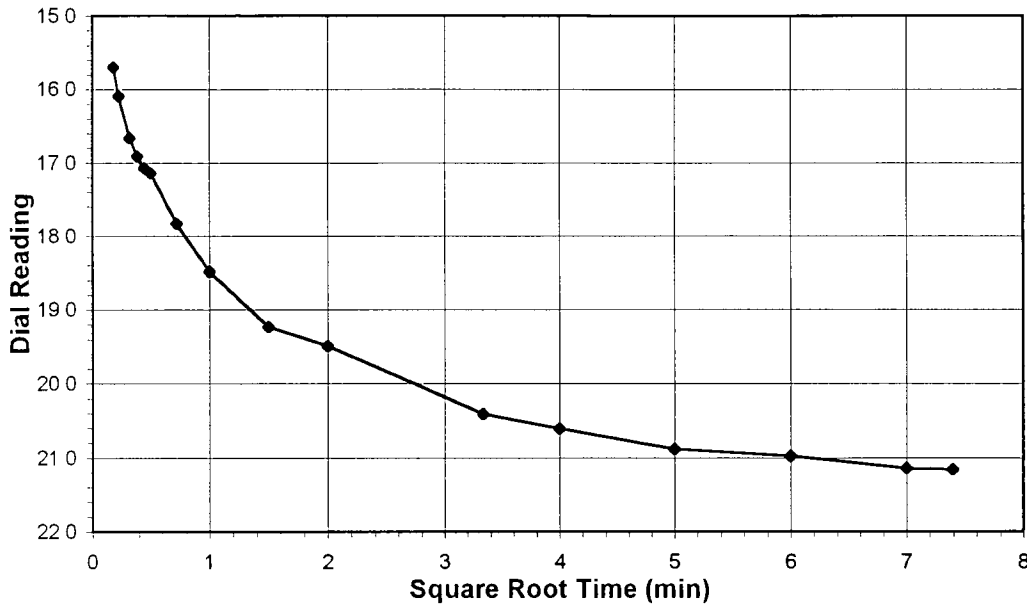




**ONE DIMENSIONAL CONSOLIDATION**  
ASTM D 2435-96 (SOP-S24A)

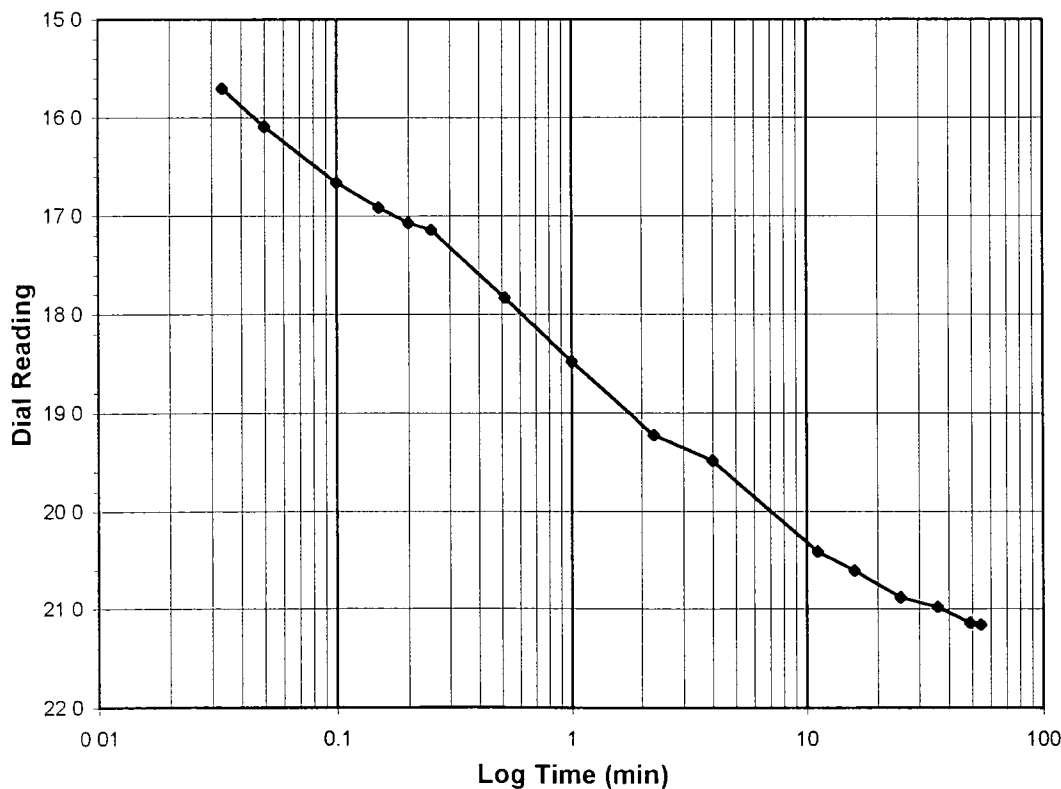
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-01	Sample No.	SS09
Lab ID	2004-221-01-03	Visual Description	BLACK STABILIZED MATERIAL WITH ROCK FRAGMENTS

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0-0.25
Final Reading (div)	21.2
Consolidometer No.	4
1 Division (in)	0.0001
Start Date	8/10/04
Start Time	15:09:46

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<i>0.0</i>
0.03	15.7
0.05	16.1
0.10	16.7
0.15	16.9
0.20	17.1
0.25	17.1
0.52	17.8
1.00	18.5
2.25	19.2
4.00	19.5
11.12	20.4
16.00	20.6
25.00	20.9
36.00	21.0
49.00	21.1
54.68	21.2



Tested By TM Date 8/10/04 Checked By GU Date 8/23/04

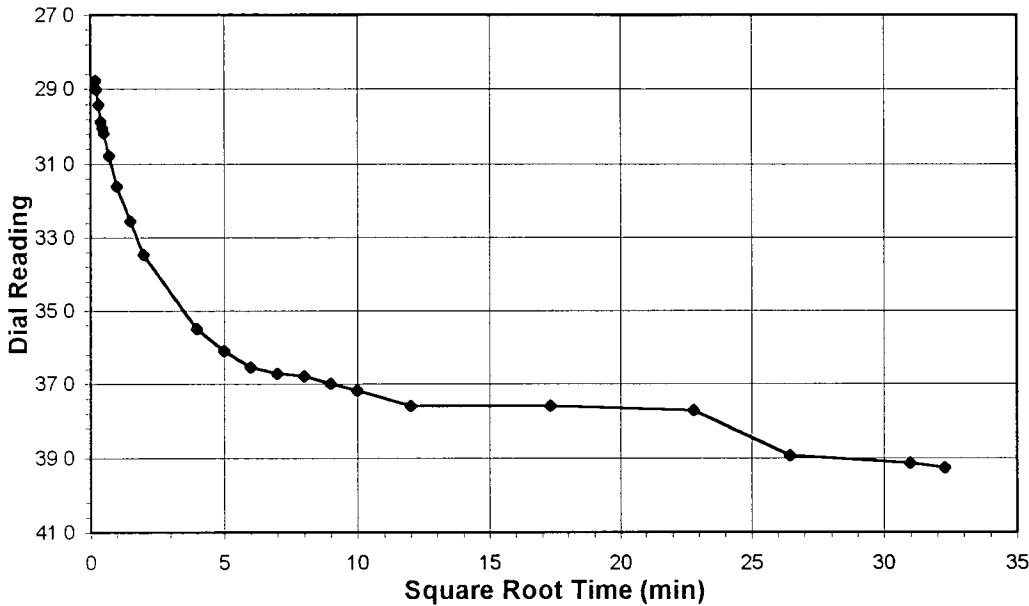


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-01	Sample No.	SS09
Lab ID	2004-221-01-03	Visual Description	BLACK STABILIZED MATERIAL WITH ROCK FRAGMENTS

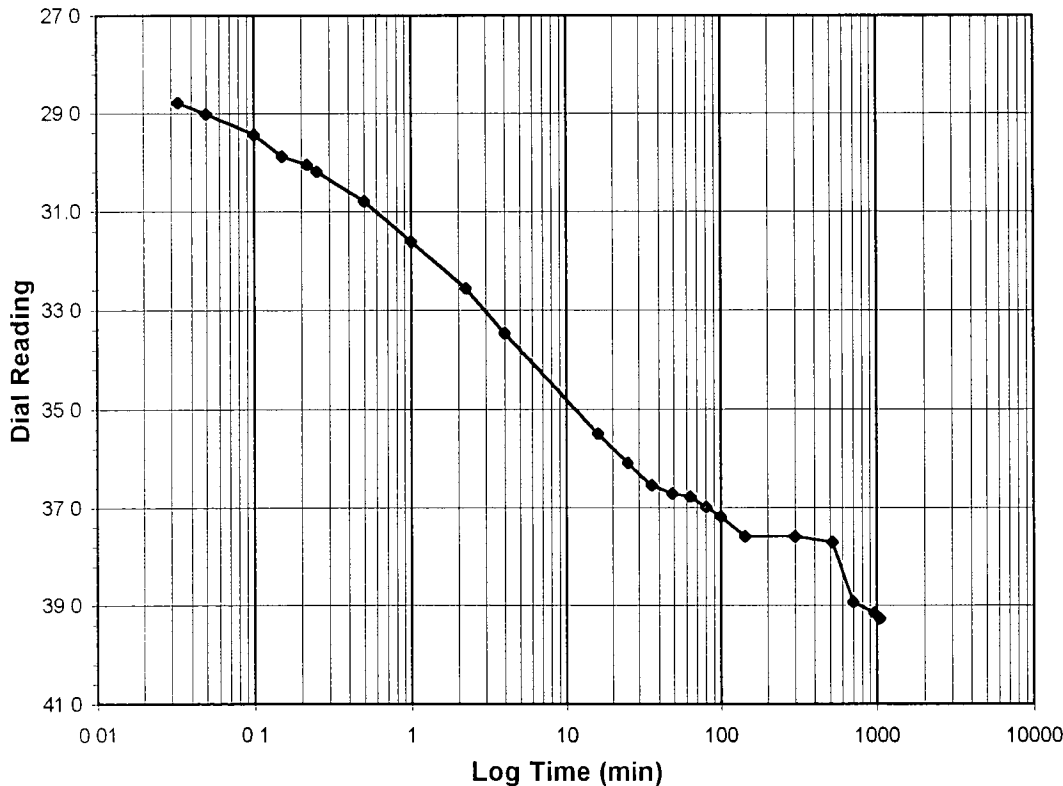
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.25-0.5
Final Reading (div)	39.3
Consolidometer No.	4
1 Division (in)	0.0001

Start Date	8/10/04
Start Time	16:08:44

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>21.2</b>
0.03	28.8
0.05	29.0
0.10	29.4
0.15	29.9
0.22	30.0
0.25	30.2
0.50	30.8
1.00	31.6
2.25	32.6
4.00	33.5
16.00	35.5
25.00	36.1
36.00	36.6
49.00	36.7
64.00	36.8
81.00	37.0
100.00	37.2
144.00	37.6
300.00	37.6
520.00	37.7
700.00	38.9
960.00	39.2
1042.47	39.3



Tested By *TM* Date *8/10/04* Checked By *GU* Date *8/23/04*

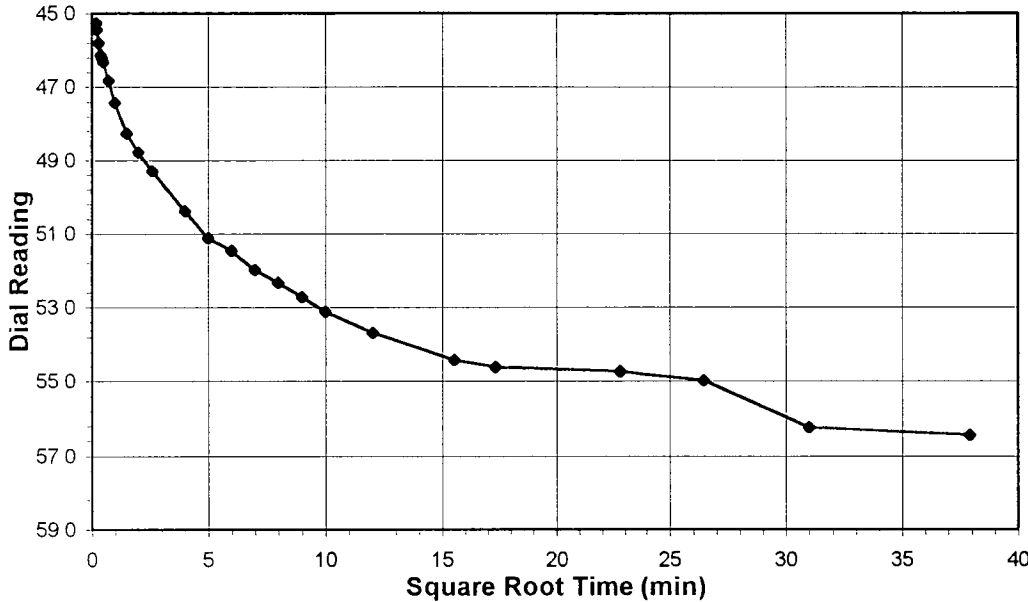


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-01	Sample No.	SS09
Lab ID	2004-221-01-03	Visual Description	BLACK STABILIZED MATERIAL WITH ROCK FRAGMENTS

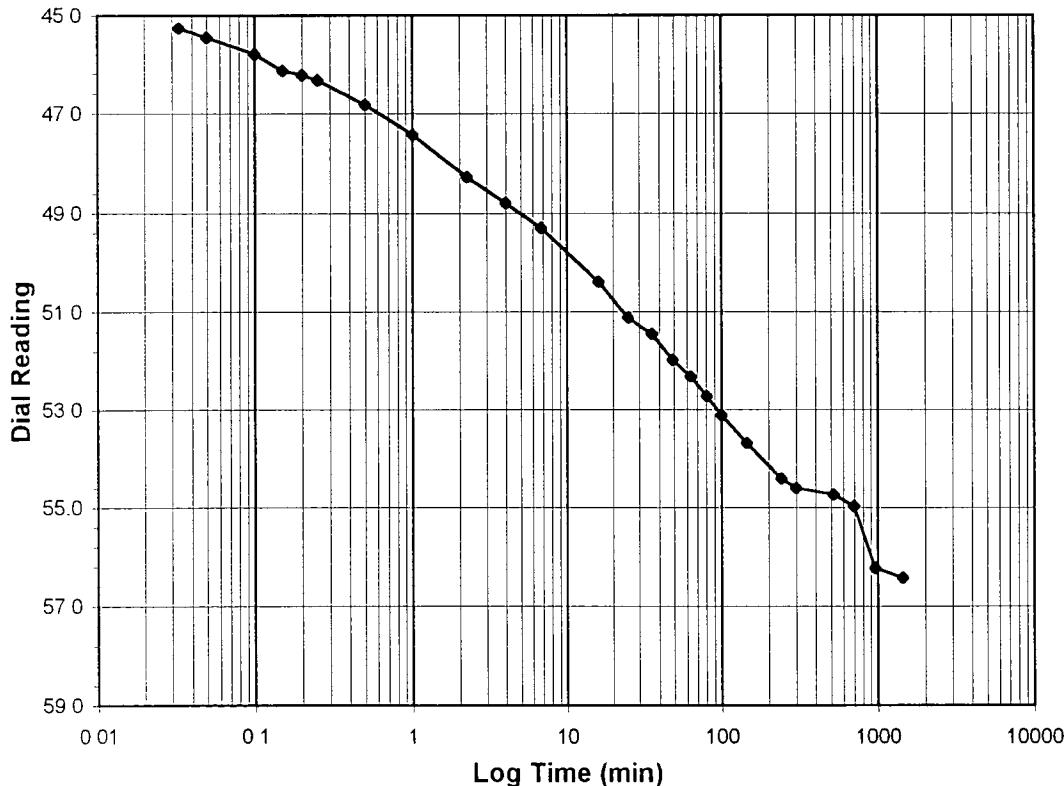
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.5-1.0
Final Reading (div)	56.4
Consolidometer No.	4
1 Division (in)	0.0001

Start Date	8/11/04
Start Time	9:43:47

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>39.3</b>
0.03	45.3
0.05	45.5
0.10	45.8
0.15	46.1
0.20	46.2
0.25	46.3
0.50	46.8
1.00	47.4
2.25	48.3
4.00	48.8
6.78	49.3
16.00	50.4
25.00	51.1
36.00	51.5
49.00	52.0
64.00	52.3
81.00	52.7
100.00	53.1
144.80	53.7
241.42	54.4
300.00	54.6
520.02	54.7
700.00	55.0
960.00	56.2
1439.37	56.4



Tested By TM Date 8/11/04 Checked By GU Date 8/23/04

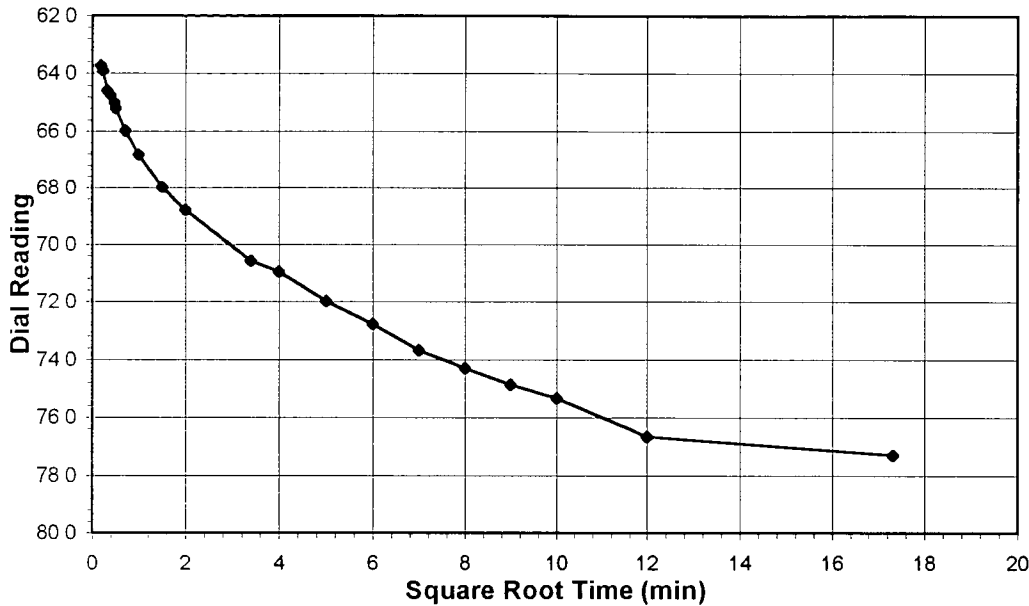


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

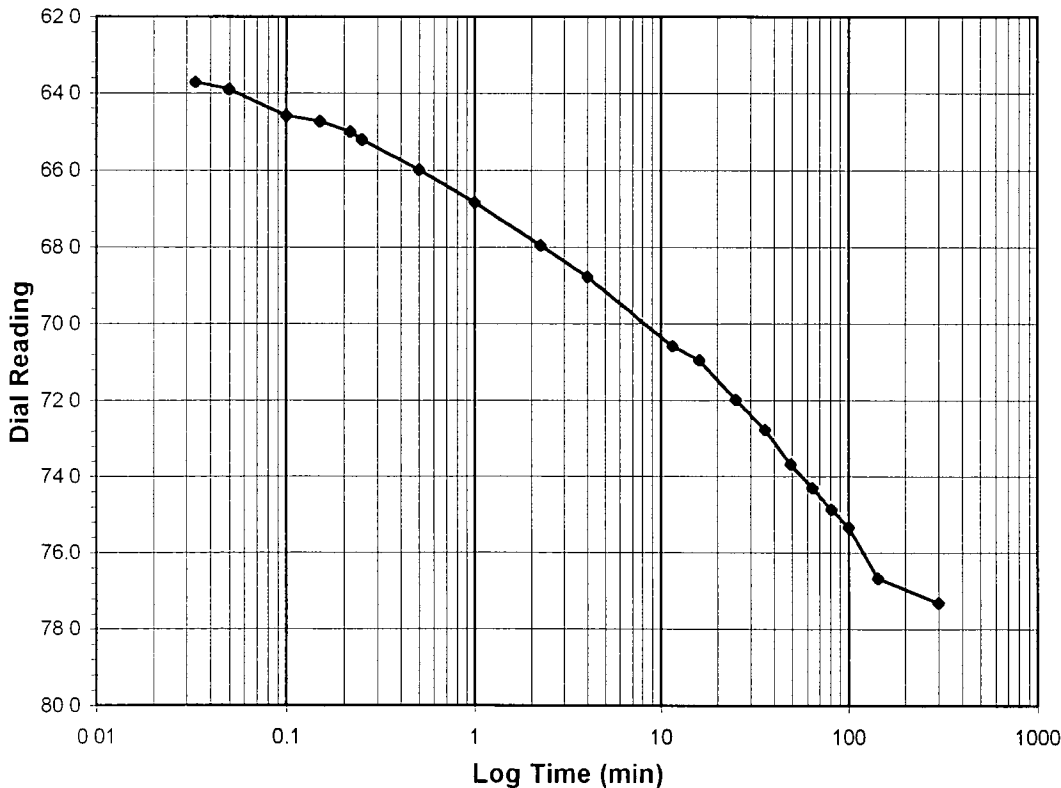
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-01	Sample No.	SS09
Lab ID	2004-221-01-03	Visual Description	BLACK STABILIZED MATERIAL WITH ROCK FRAGMENTS

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	1.0-2.0
Final Reading (div)	77.3
Consolidometer No.	4
1 Division (in)	0.0001
Start Date	8/12/04
Start Time	9:49:23

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	56.4
0.03	63.7
0.05	63.9
0.10	64.6
0.15	64.7
0.22	65.0
0.25	65.2
0.50	66.0
1.00	66.8
2.25	68.0
4.00	68.8
11.53	70.6
16.00	71.0
25.00	72.0
36.00	72.8
49.00	73.7
64.00	74.3
81.00	74.9
100.00	75.3
144.00	76.7
300.00	77.3



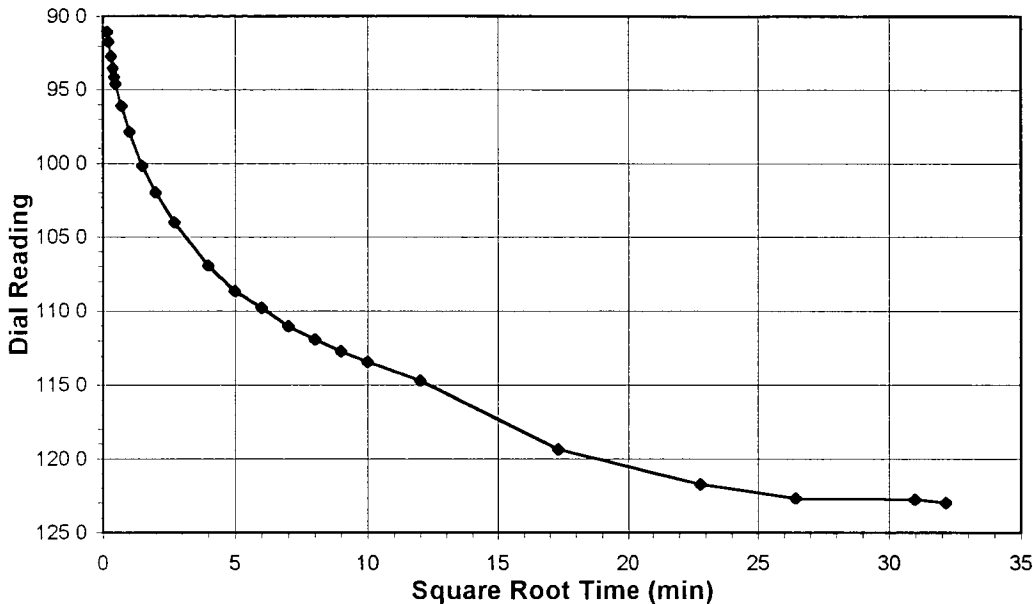
Tested By TM Date 8/12/04 Checked By GJ Date 8/23/04

# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-01	Sample No.	SS09
Lab ID	2004-221-01-03	Visual Description	BLACK STABILIZED MATERIAL WITH ROCK FRAGMENTS

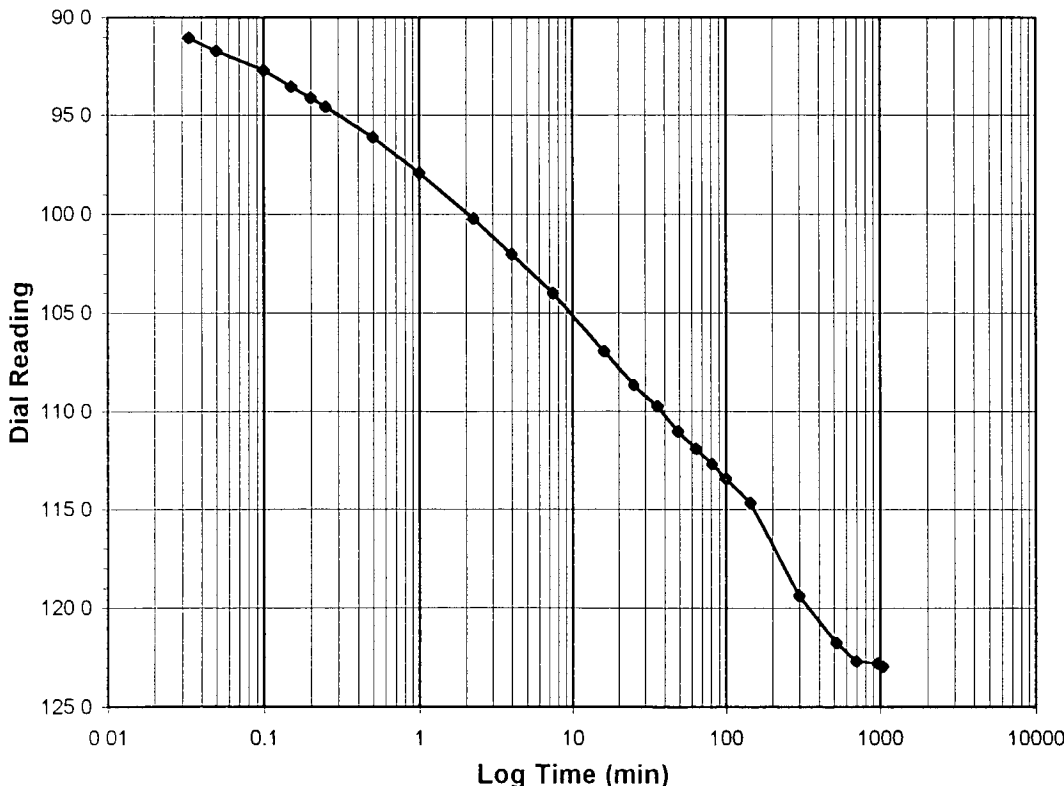
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	2.0-4.0
Final Reading (div)	123.0
Consolidometer No.	4
1 Division (in)	0.0001

Start Date	8/12/04
Start Time	16:14:29

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<i>77.3</i>
0.03	91.1
0.05	91.7
0.10	92.7
0.15	93.5
0.20	94.1
0.25	94.6
0.50	96.1
1.00	97.9
2.25	100.2
4.00	102.0
7.42	104.0
16.00	107.0
25.00	108.7
36.00	109.8
49.00	111.0
64.00	111.9
81.00	112.7
100.00	113.5
144.00	114.7
300.00	119.4
520.00	121.8
700.00	122.7
960.00	122.8
1033.42	123.0



Tested By TM Date 8/12/04 Checked By GU Date 8/23/04

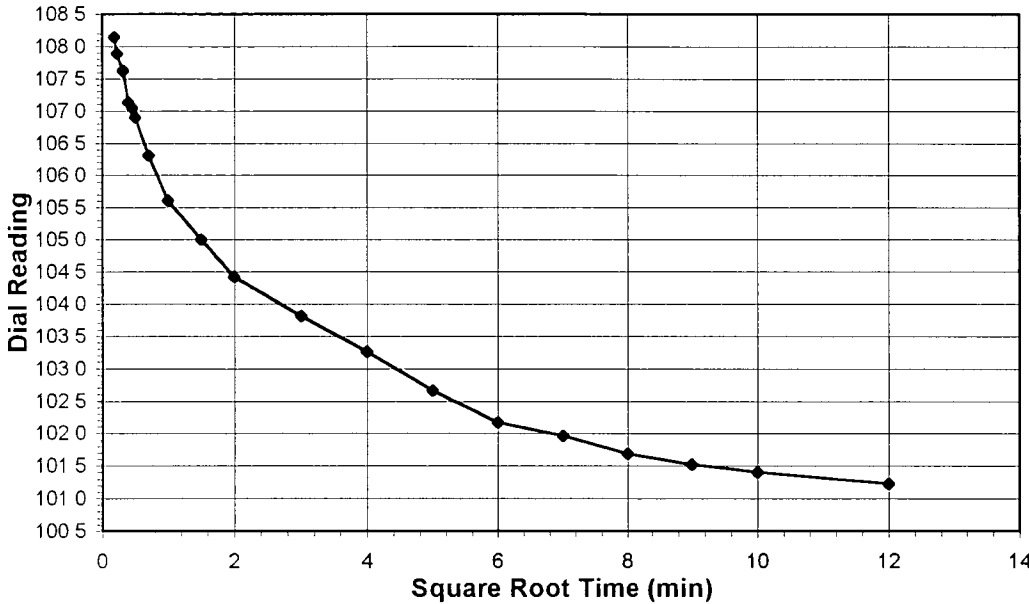


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

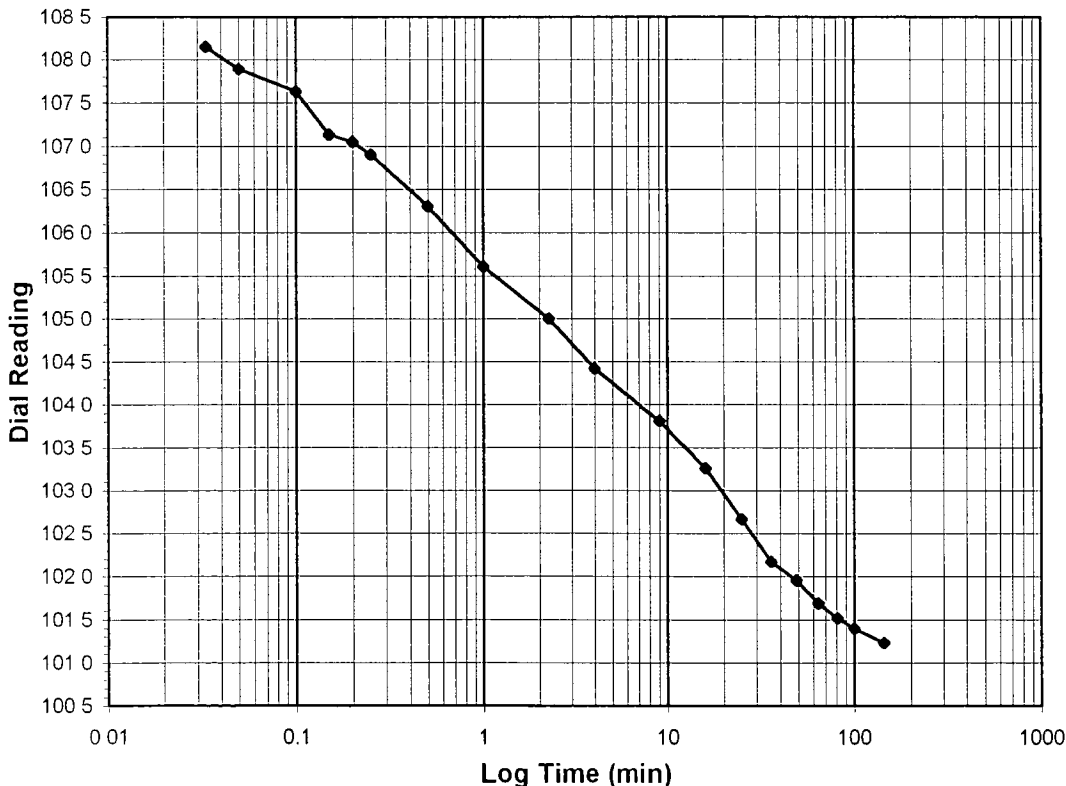
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-01	Sample No.	SS09
Lab ID	2004-221-01-03	Visual Description	BLACK STABILIZED MATERIAL WITH ROCK FRAGMENTS

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	4.0-1.0
Final Reading (div)	101.2
Consolidometer No.	4
1 Division (in)	0.0001
Start Date	8/13/04
Start Time	9:39:58

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>123.0</b>
0.03	108.2
0.05	107.9
0.10	107.6
0.15	107.1
0.20	107.1
0.25	106.9
0.50	106.3
1.00	105.6
2.25	105.0
4.00	104.4
9.02	103.8
16.00	103.3
25.00	102.7
36.00	102.2
49.02	102.0
64.00	101.7
81.00	101.5
100.00	101.4
144.02	101.2



Tested By *TM* Date *8/13/04* Checked By *GU* Date *8/23/04*

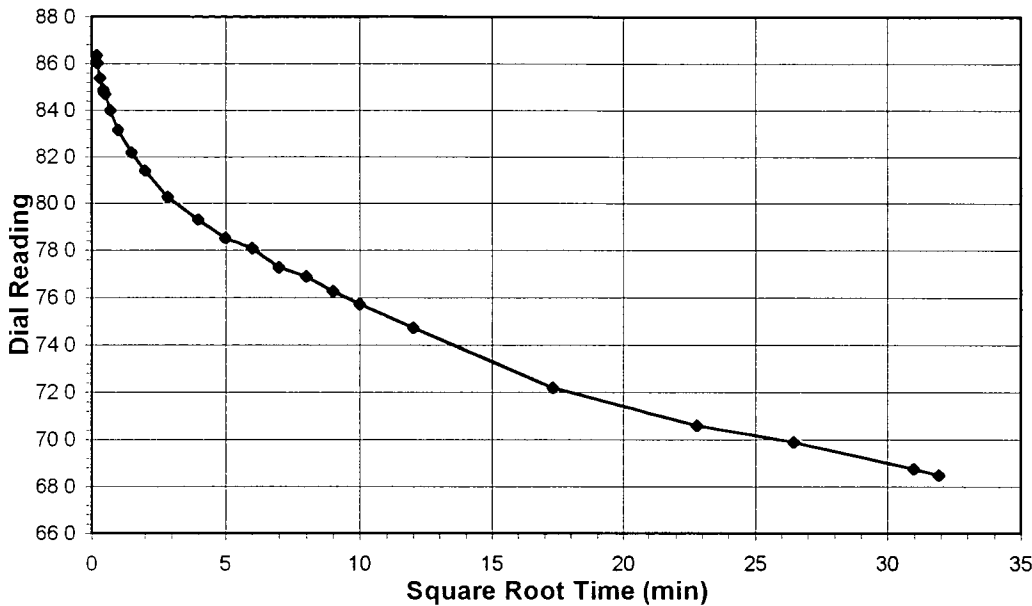


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-01	Sample No.	SS09
Lab ID	2004-221-01-03	Visual Description	BLACK STABILIZED MATERIAL WITH ROCK FRAGMENTS

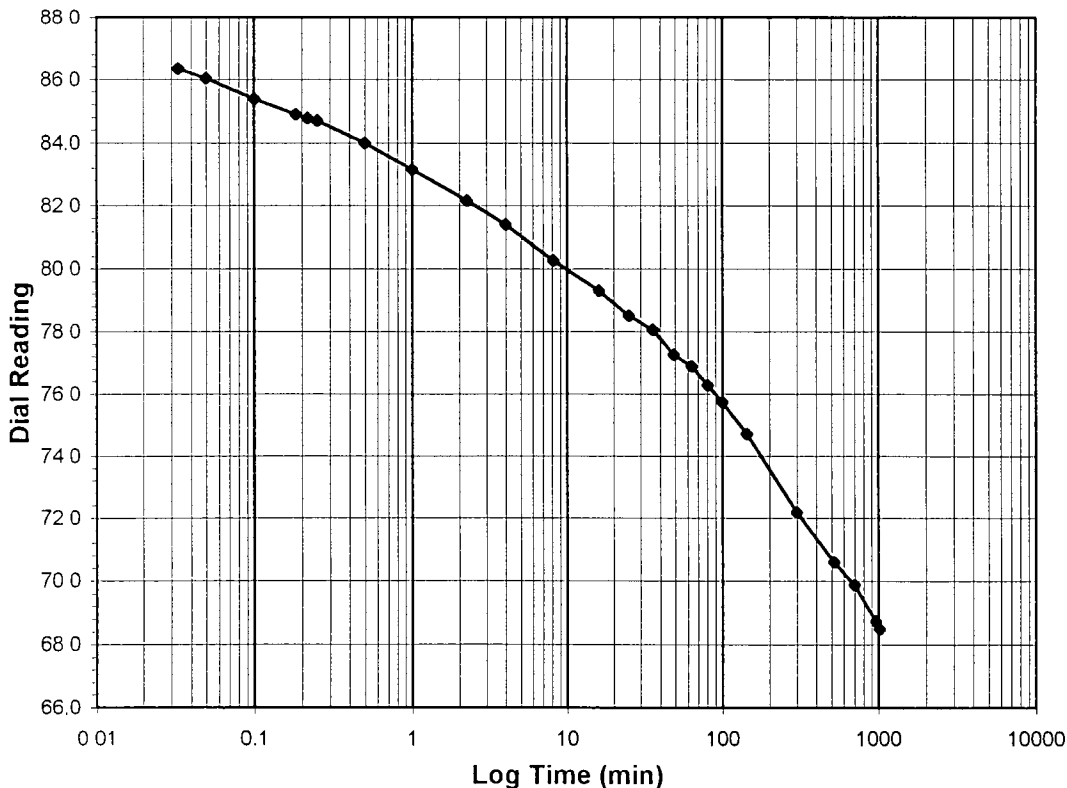
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	1.0-0.25
Final Reading (div)	68.5
Consolidometer No.	4
1 Division (in)	0.0001

Start Date	8/13/04
Start Time	12:29:22

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>101.2</b>
0.03	86.4
0.05	86.0
0.10	85.4
0.18	84.9
0.22	84.8
0.25	84.7
0.50	84.0
1.00	83.2
2.25	82.2
4.00	81.4
8.10	80.3
16.00	79.3
25.00	78.5
36.00	78.1
49.00	77.3
64.00	76.9
81.00	76.3
100.00	75.7
144.00	74.7
300.00	72.2
520.00	70.6
700.00	69.9
960.00	68.8
1018.88	68.5



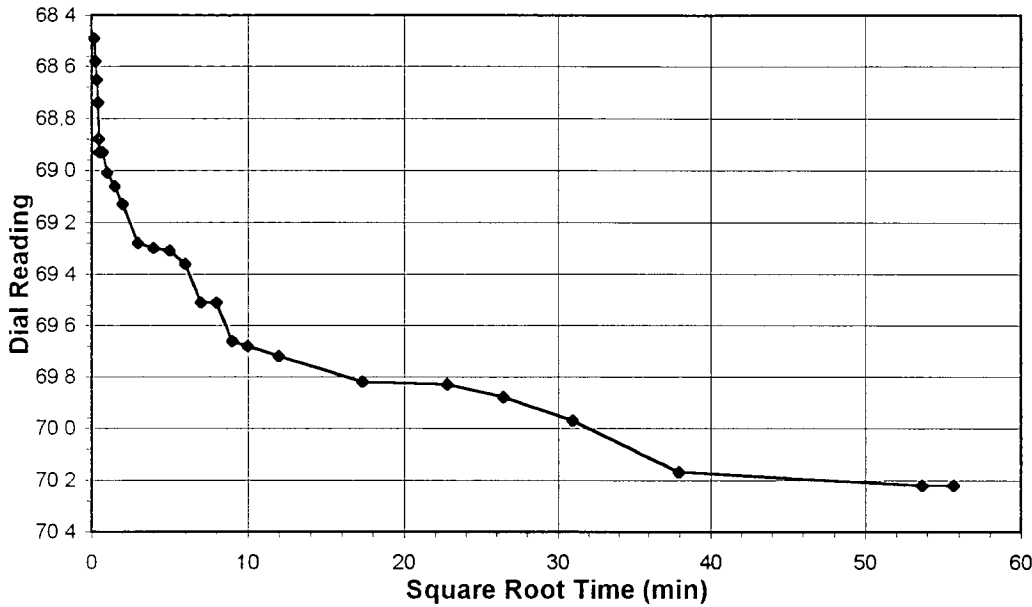
Tested By *TM* Date *8/13/04* Checked By *GU* Date *8/23/04*



**ONE DIMENSIONAL CONSOLIDATION**  
ASTM D 2435-96 (SOP-S24A)

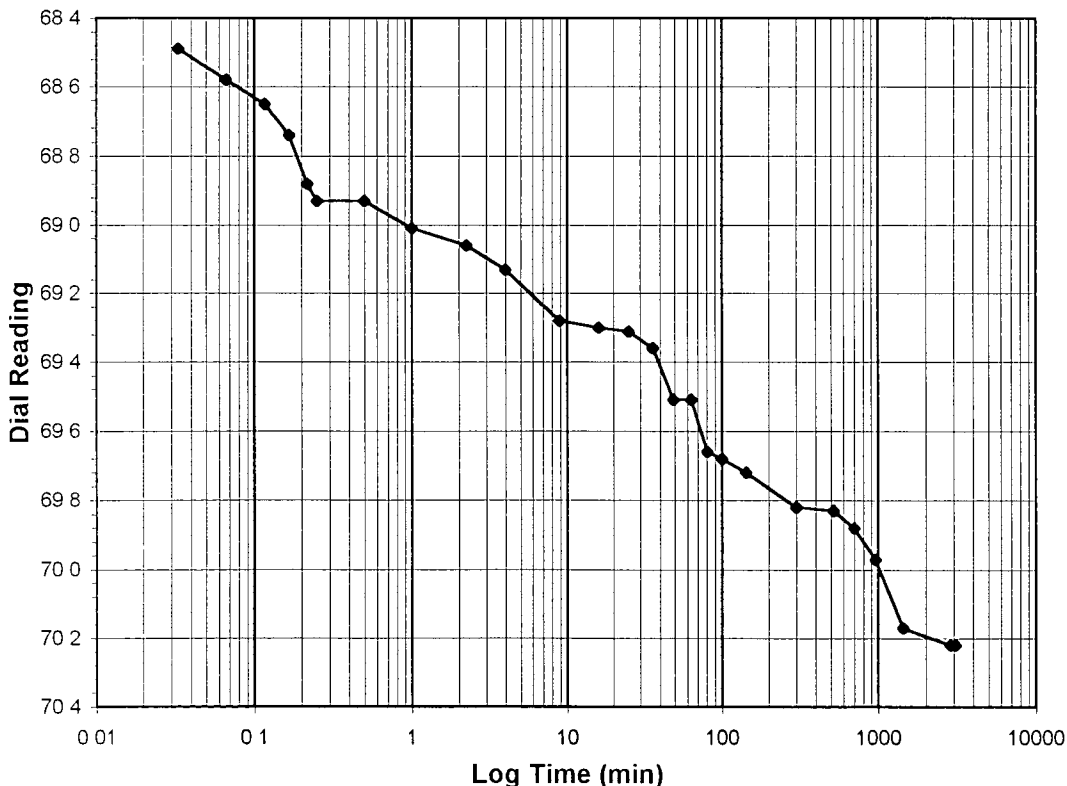
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-01	Sample No.	SS09
Lab ID	2004-221-01-03	Visual Description	BLACK STABILIZED MATERIAL WITH ROCK FRAGMENTS

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.25-0.5
Final Reading (div)	70.2
Consolidometer No.	4
1 Division (in)	0.0001
Start Date	8/14/04
Start Time	5:47:39

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>68.5</b>
0.03	68.5
0.07	68.6
0.12	68.7
0.17	68.7
0.22	68.9
0.25	68.9
0.50	68.9
1.00	69.0
2.25	69.1
4.00	69.1
8.93	69.3
16.00	69.3
25.00	69.3
36.00	69.4
49.00	69.5
64.00	69.5
81.00	69.7
100.00	69.7
144.00	69.7
300.00	69.8
520.00	69.8
700.00	69.9
960.00	70.0
1440.02	70.2
2880.00	70.2
3098.87	70.2



Tested By TM Date 8/14/04 Checked By GU Date 8/23/04



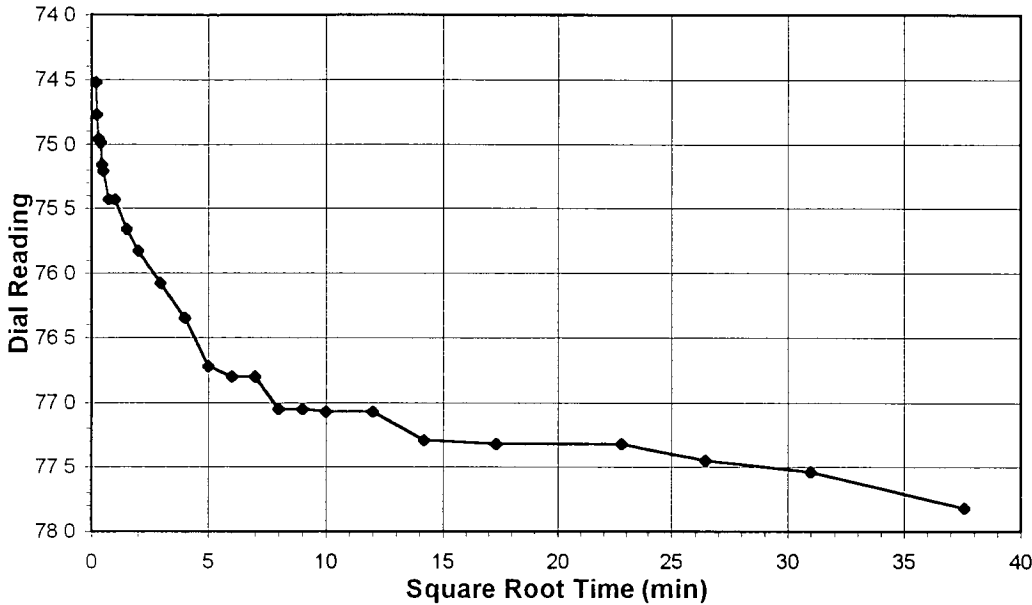


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-01	Sample No.	SS09
Lab ID	2004-221-01-03	Visual Description	BLACK STABILIZED MATERIAL WITH ROCK FRAGMENTS

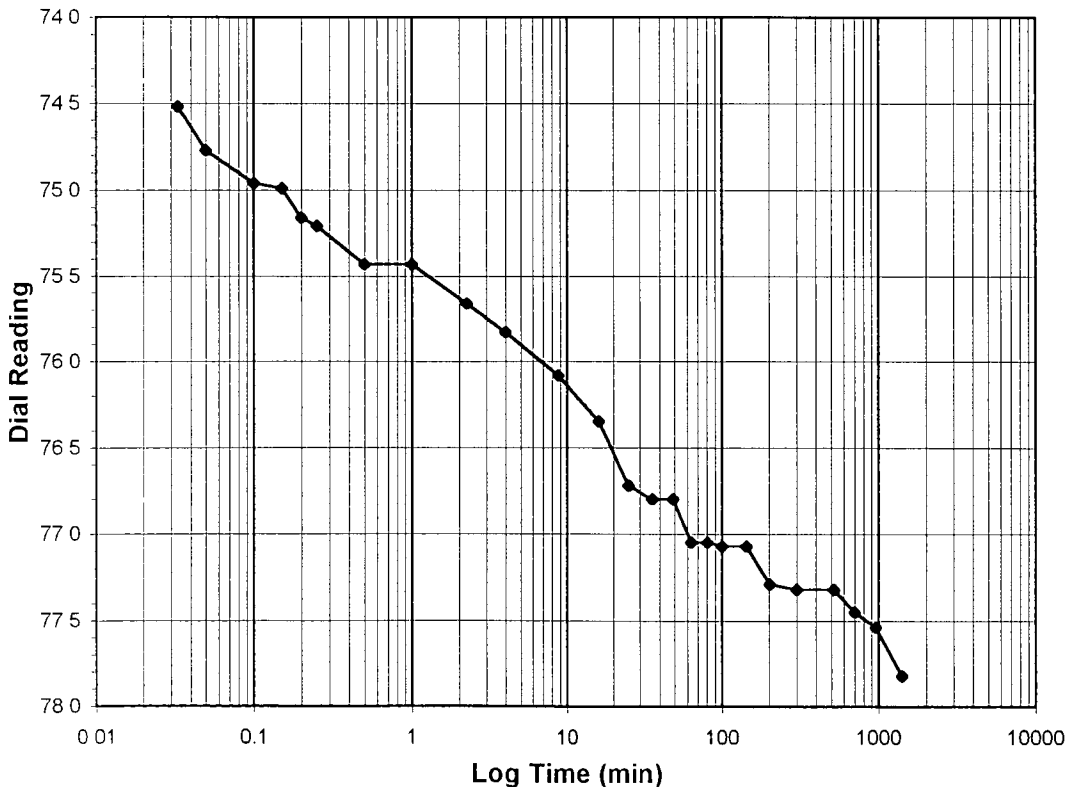
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.5-1.0
Final Reading (div)	77.8
Consolidometer No.	4
1 Division (in)	0.0001

Start Date	8/16/04
Start Time	9:38:08

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<i>70.2</i>
0.03	74.5
0.05	74.8
0.10	75.0
0.15	75.0
0.20	75.2
0.25	75.2
0.50	75.4
1.00	75.4
2.25	75.7
4.00	75.8
8.77	76.1
16.02	76.4
25.00	76.7
36.00	76.8
49.00	76.8
64.00	77.1
81.00	77.1
100.02	77.1
144.00	77.1
200.98	77.3
300.00	77.3
520.02	77.3
700.00	77.5
960.00	77.5
1414.16	77.8



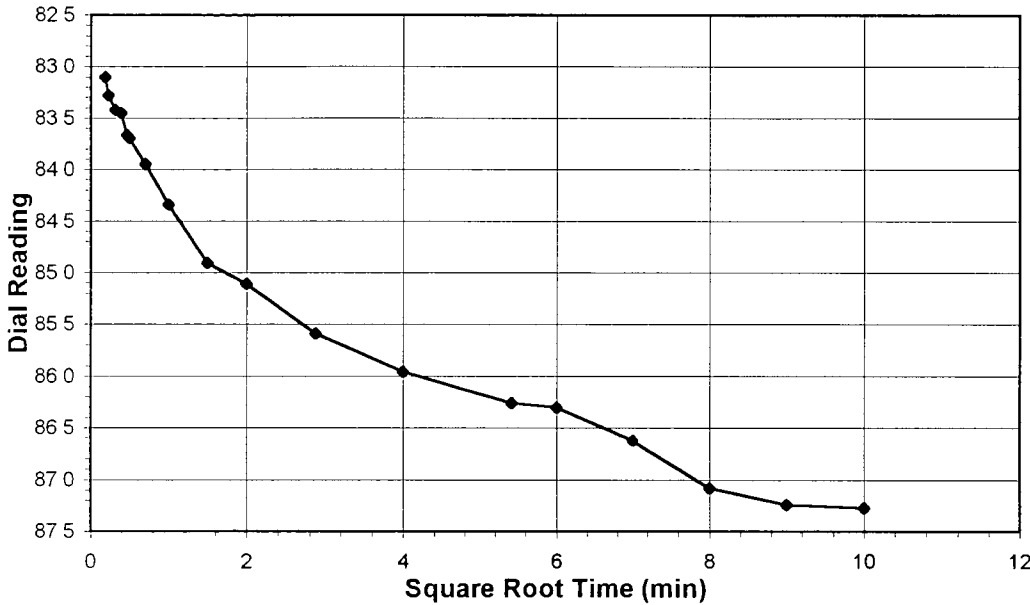
Tested By *TM* Date *8/16/04* Checked By *GU* Date *8/23/04*



**ONE DIMENSIONAL CONSOLIDATION**  
ASTM D 2435-96 (SOP-S24A)

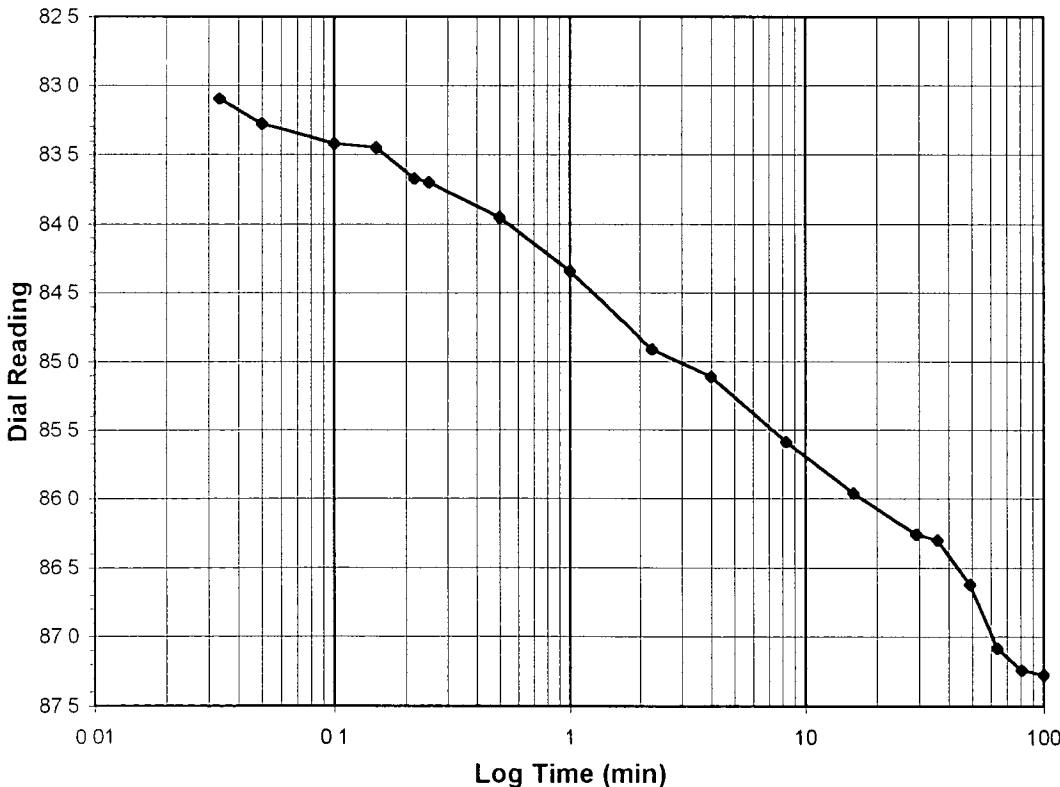
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-01	Sample No.	SS09
Lab ID	2004-221-01-03	Visual Description	BLACK STABILIZED MATERIAL WITH ROCK FRAGMENTS

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



<b>Test Load (tsf)</b>	<b>1.0-2.0</b>
<b>Final Reading (div)</b>	<b>87.3</b>
Consolidometer No.	4
1 Division (in)	0.0001
Start Date	8/17/04
Start Time	9:19:22

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<i>77.8</i>
0.03	83.1
0.05	83.3
0.10	83.4
0.15	83.5
0.22	83.7
0.25	83.7
0.50	84.0
1.00	84.3
2.25	84.9
4.00	85.1
8.30	85.6
16.00	86.0
29.30	86.3
36.00	86.3
49.00	86.6
64.00	87.1
81.00	87.2
100.00	87.3



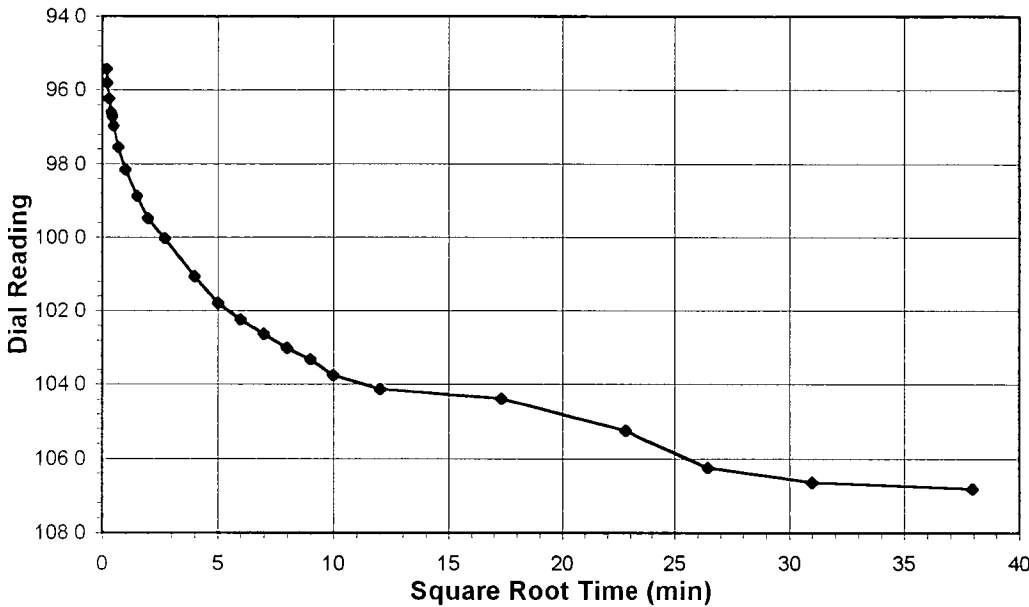
Tested By *TM* Date *8/17/04* Checked By *GU* Date *8/23/04*



**ONE DIMENSIONAL CONSOLIDATION**  
ASTM D 2435-96 (SOP-S24A)

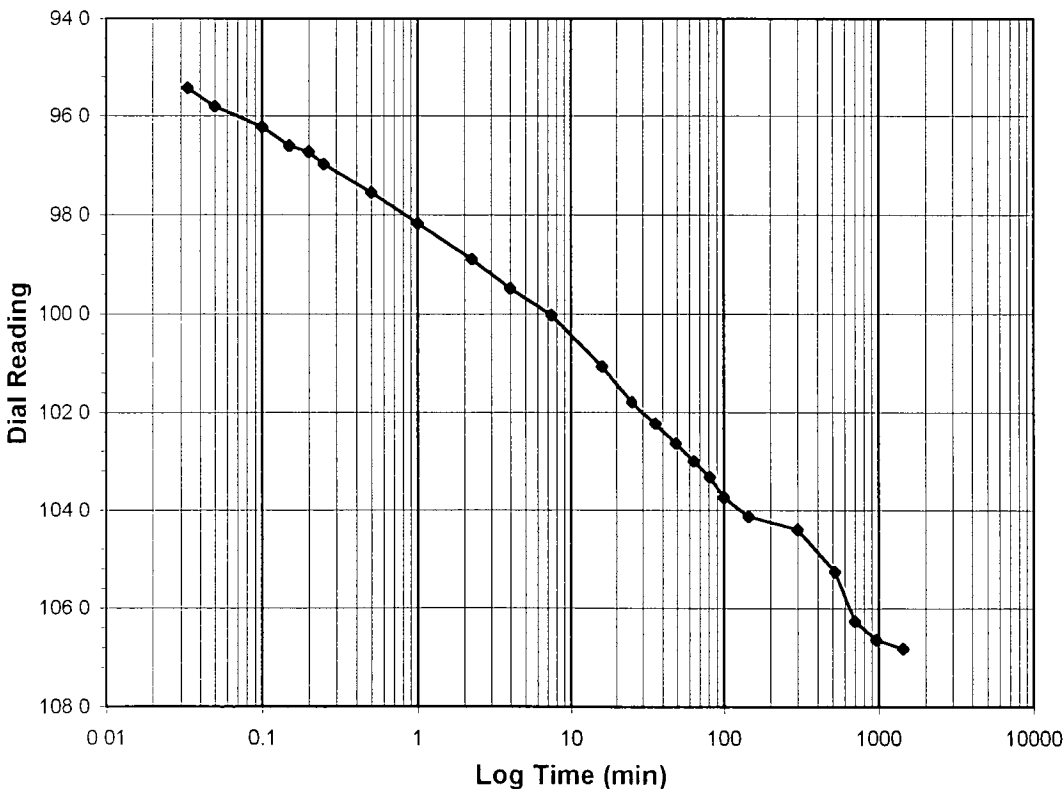
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-01	Sample No.	SS09
Lab ID	2004-221-01-03	Visual Description	BLACK STABILIZED MATERIAL WITH ROCK FRAGMENTS

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	2.0-4.0
Final Reading (div)	106.8
Consolidometer No.	4
1 Division (in)	0.0001
Start Date	8/17/04
Start Time	11:08:10

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>87.3</b>
0.03	95.4
0.05	95.8
0.10	96.2
0.15	96.6
0.20	96.7
0.25	97.0
0.50	97.5
1.00	98.2
2.25	98.9
4.00	99.5
7.43	100.0
16.00	101.1
25.00	101.8
36.00	102.2
49.00	102.6
64.00	103.0
81.00	103.3
100.02	103.8
144.00	104.1
300.00	104.4
520.00	105.3
700.00	106.3
960.00	106.6
1440.00	106.8



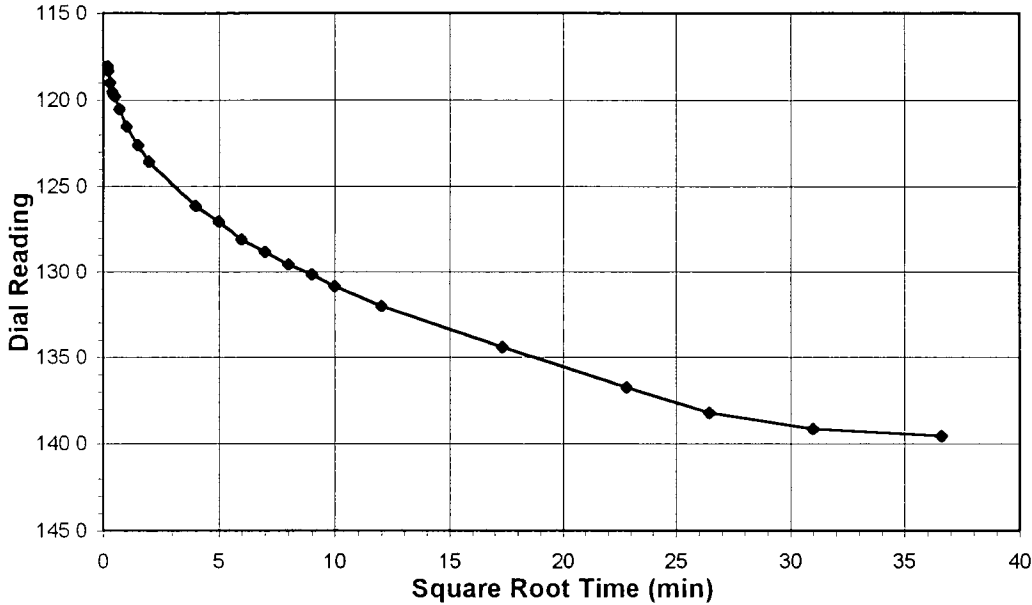
Tested By TM Date 8/17/04 Checked By GU Date 8/23/04

**ONE DIMENSIONAL CONSOLIDATION**  
ASTM D 2435-96 (SOP-S24A)



Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-01	Sample No.	SS09
Lab ID	2004-221-01-03	Visual Description	BLACK STABILIZED MATERIAL WITH ROCK FRAGMENTS

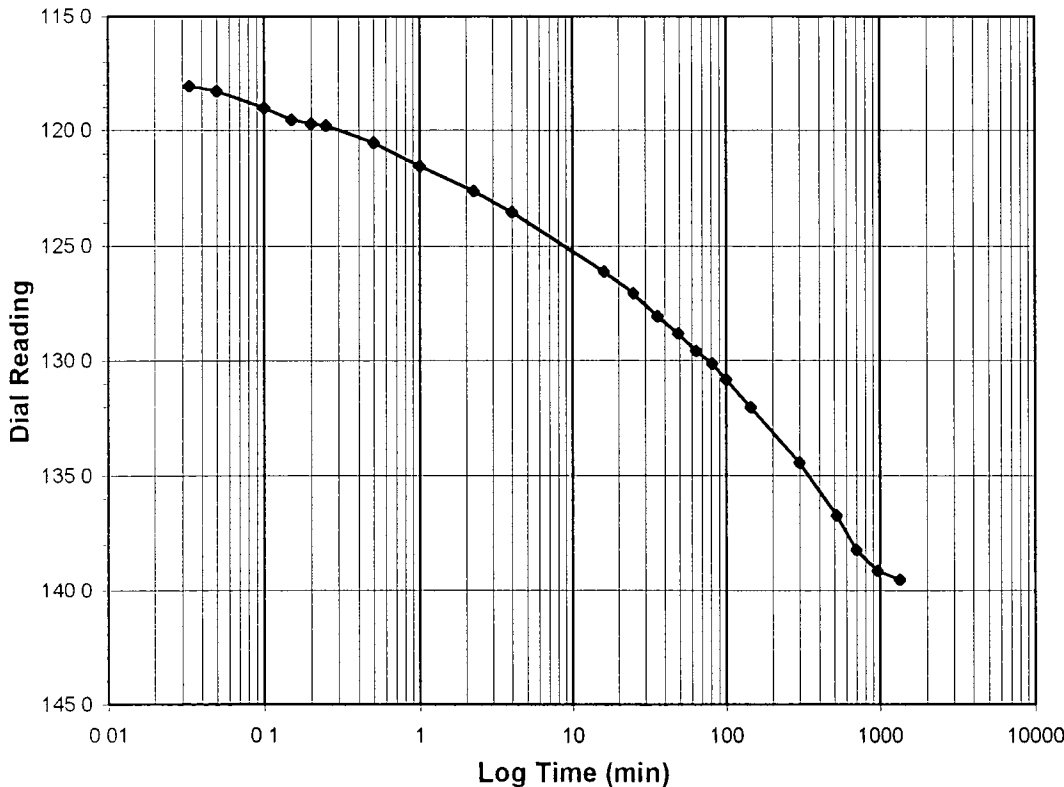
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



<b>Test Load (tsf)</b>	<b>4.0-8.0</b>
<b>Final Reading (div)</b>	<b>139.5</b>
Consolidometer No.	4
1 Division (in)	0.0001

Start Date	8/18/04
Start Time	11:25:40

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>106.8</b>
0.03	118.1
0.05	118.3
0.10	119.0
0.15	119.5
0.20	119.7
0.25	119.8
0.50	120.5
1.00	121.5
2.25	122.6
4.00	123.5
16.00	126.1
25.00	127.1
36.00	128.1
49.00	128.8
64.00	129.6
81.00	130.1
100.00	130.9
144.00	132.0
300.00	134.4
520.00	136.7
700.00	138.2
960.00	139.1
1340.50	139.5



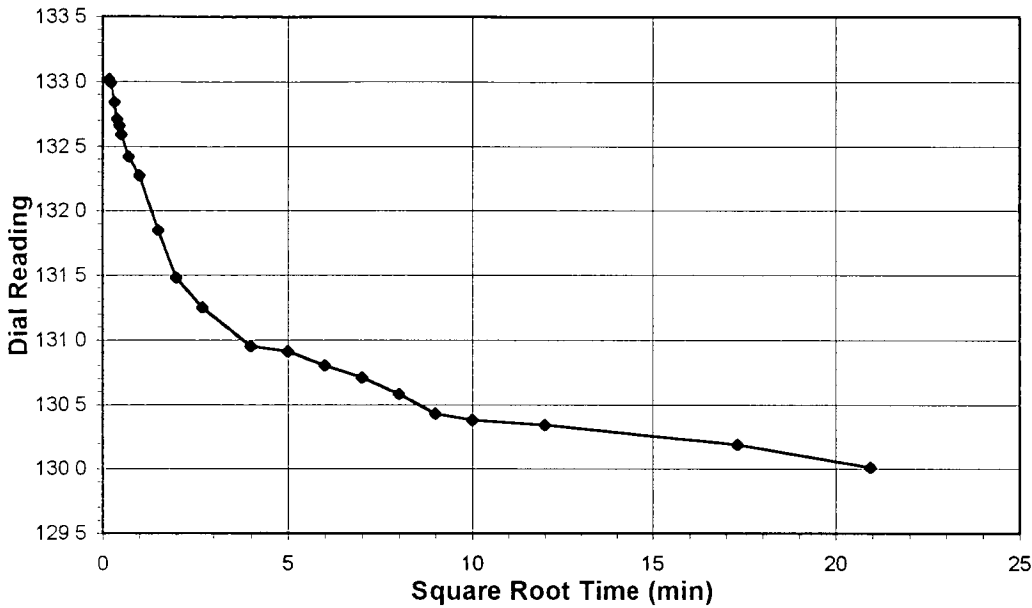
Tested By TM Date 8/18/04 Checked By GU Date 8/23/04



**ONE DIMENSIONAL CONSOLIDATION**  
ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-01	Sample No.	SS09
Lab ID	2004-221-01-03	Visual Description	BLACK STABILIZED MATERIAL WITH ROCK FRAGMENTS

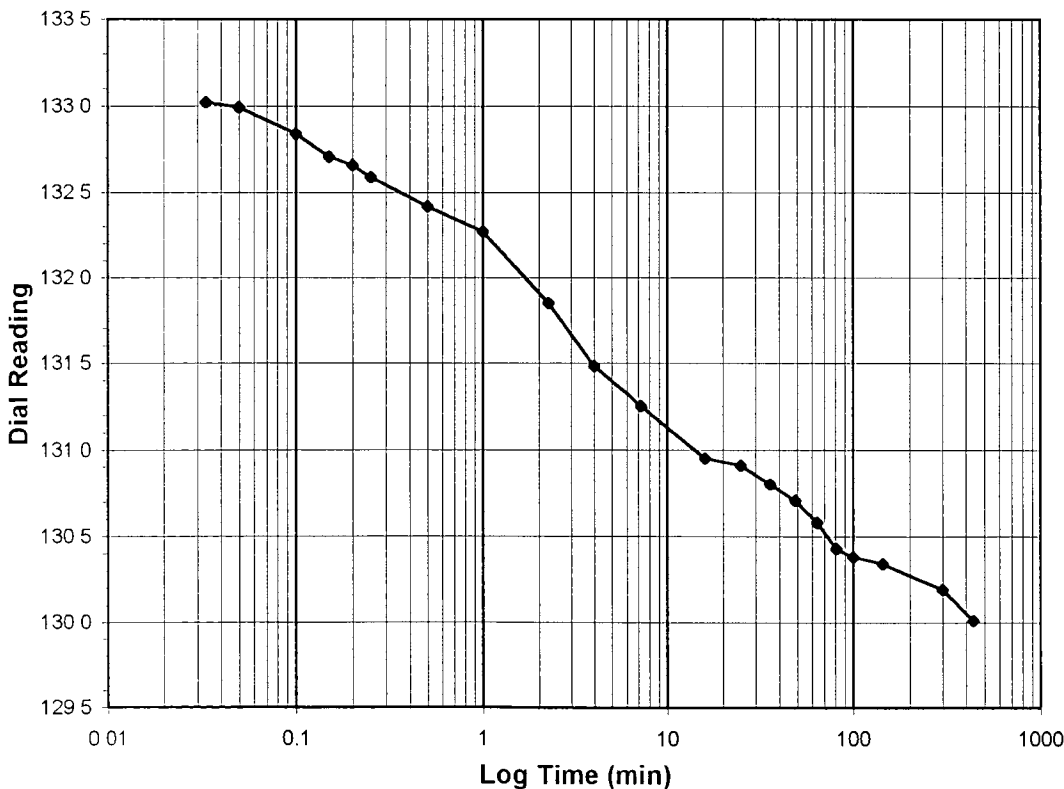
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	8.0-4.0
Final Reading (div)	130.0
Consolidometer No.	4
1 Division (in)	0.0001

Start Date	8/19/04
Start Time	10:13:40

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>139.5</b>
0.03	133.0
0.05	133.0
0.10	132.8
0.15	132.7
0.20	132.7
0.25	132.6
0.50	132.4
1.00	132.3
2.25	131.9
4.00	131.5
7.22	131.3
16.00	131.0
25.00	130.9
36.00	130.8
49.00	130.7
64.00	130.6
81.00	130.4
100.00	130.4
144.00	130.3
300.00	130.2
438.90	130.0



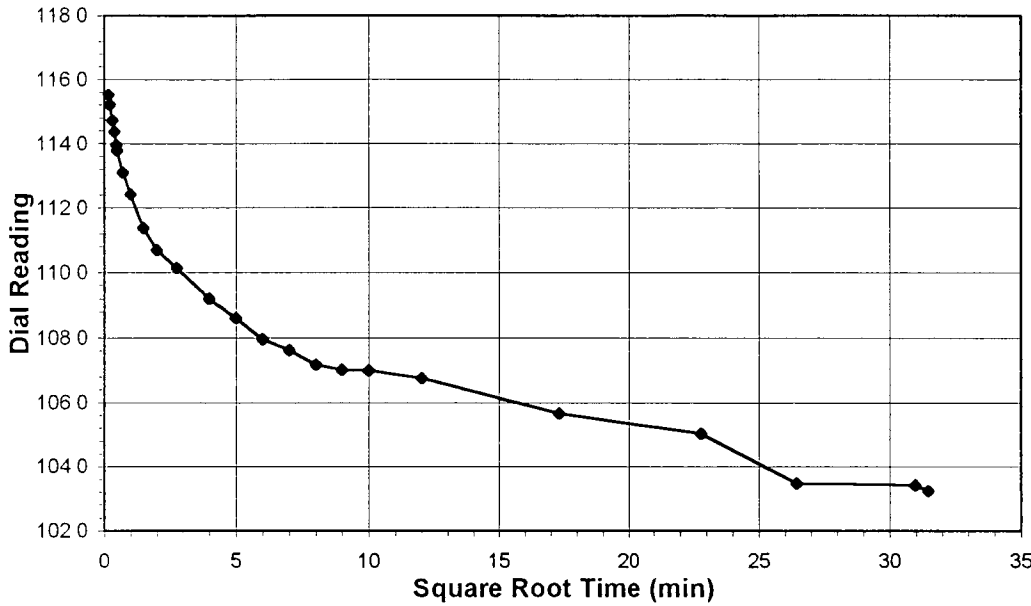
Tested By *TM* Date *8/19/04* Checked By *GU* Date *8/23/04*



**ONE DIMENSIONAL CONSOLIDATION**  
ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-01	Sample No.	SS09
Lab ID	2004-221-01-03	Visual Description	BLACK STABILIZED MATERIAL WITH ROCK FRAGMENTS

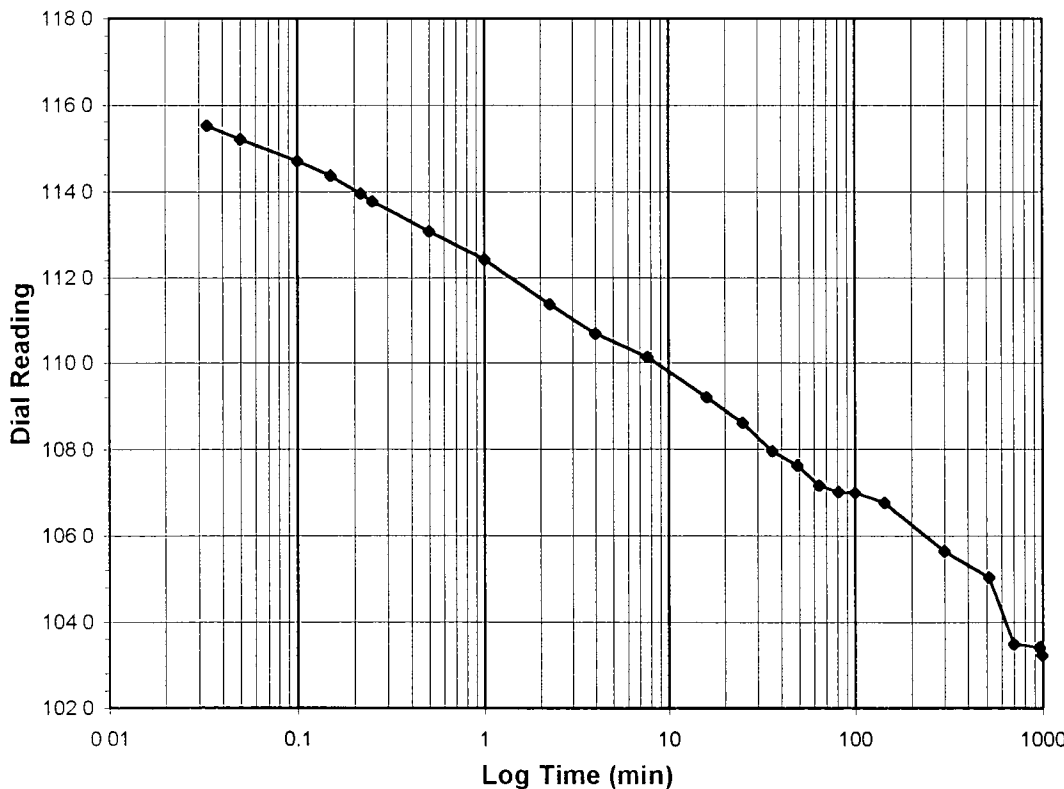
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	4.0-1.0
Final Reading (div)	103.2
Consolidometer No.	4
1 Division (in)	0.0001

Start Date	8/19/04
Start Time	17:34:22

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>130.0</b>
0.03	115.5
0.05	115.2
0.10	114.7
0.15	114.4
0.22	114.0
0.25	113.8
0.50	113.1
1.00	112.4
2.25	111.4
4.00	110.7
7.70	110.1
16.00	109.2
25.00	108.6
36.00	108.0
49.00	107.6
64.00	107.2
81.00	107.0
100.00	107.0
144.00	106.8
300.00	105.7
520.00	105.0
700.00	103.5
960.00	103.4
990.20	103.2



Tested By TM Date 8/19/04 Checked By GU Date 8/23/04

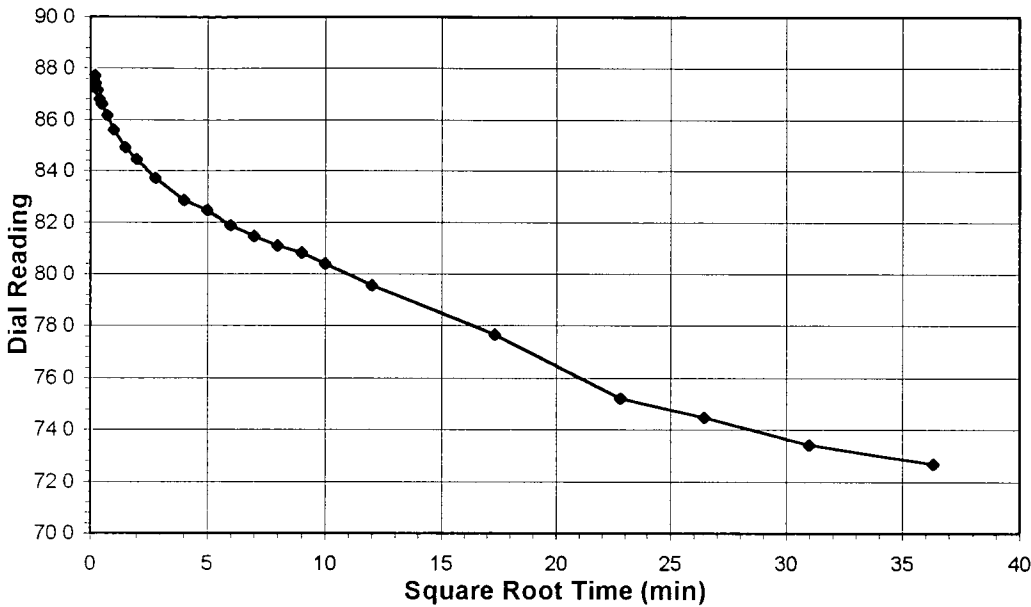


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-01	Sample No.	SS09
Lab ID	2004-221-01-03	Visual Description	BLACK STABILIZED MATERIAL WITH ROCK FRAGMENTS

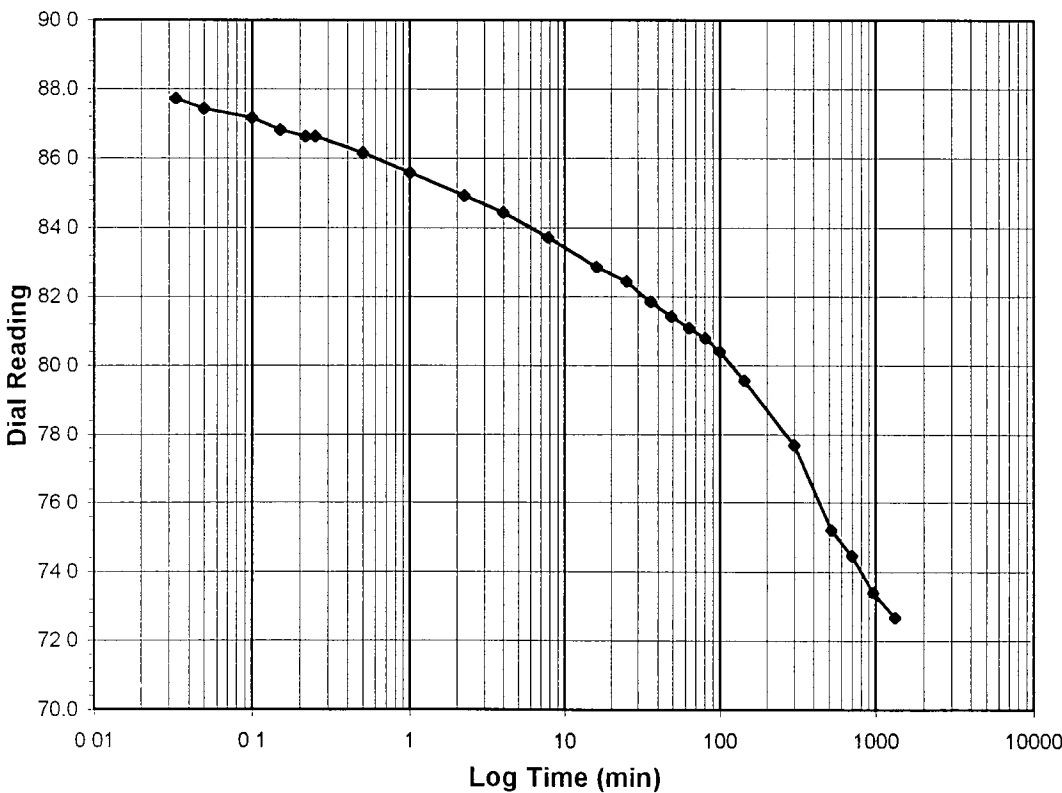
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	1.0-0.25
Final Reading (div)	72.7
Consolidometer No.	4
1 Division (in)	0.0001

Start Date	8/20/04
Start Time	10:23:25

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>103.2</b>
0.03	87.7
0.05	87.4
0.10	87.2
0.15	86.8
0.22	86.6
0.25	86.6
0.50	86.2
1.00	85.6
2.25	84.9
4.00	84.4
7.85	83.7
16.00	82.9
25.00	82.5
36.02	81.9
49.00	81.4
64.00	81.1
81.00	80.8
100.00	80.4
144.00	79.6
300.00	77.7
520.00	75.2
700.00	74.5
960.00	73.4
1318.73	72.7



Tested By **TM** Date **8/20/04** Checked By **GU** Date **8/23/04**

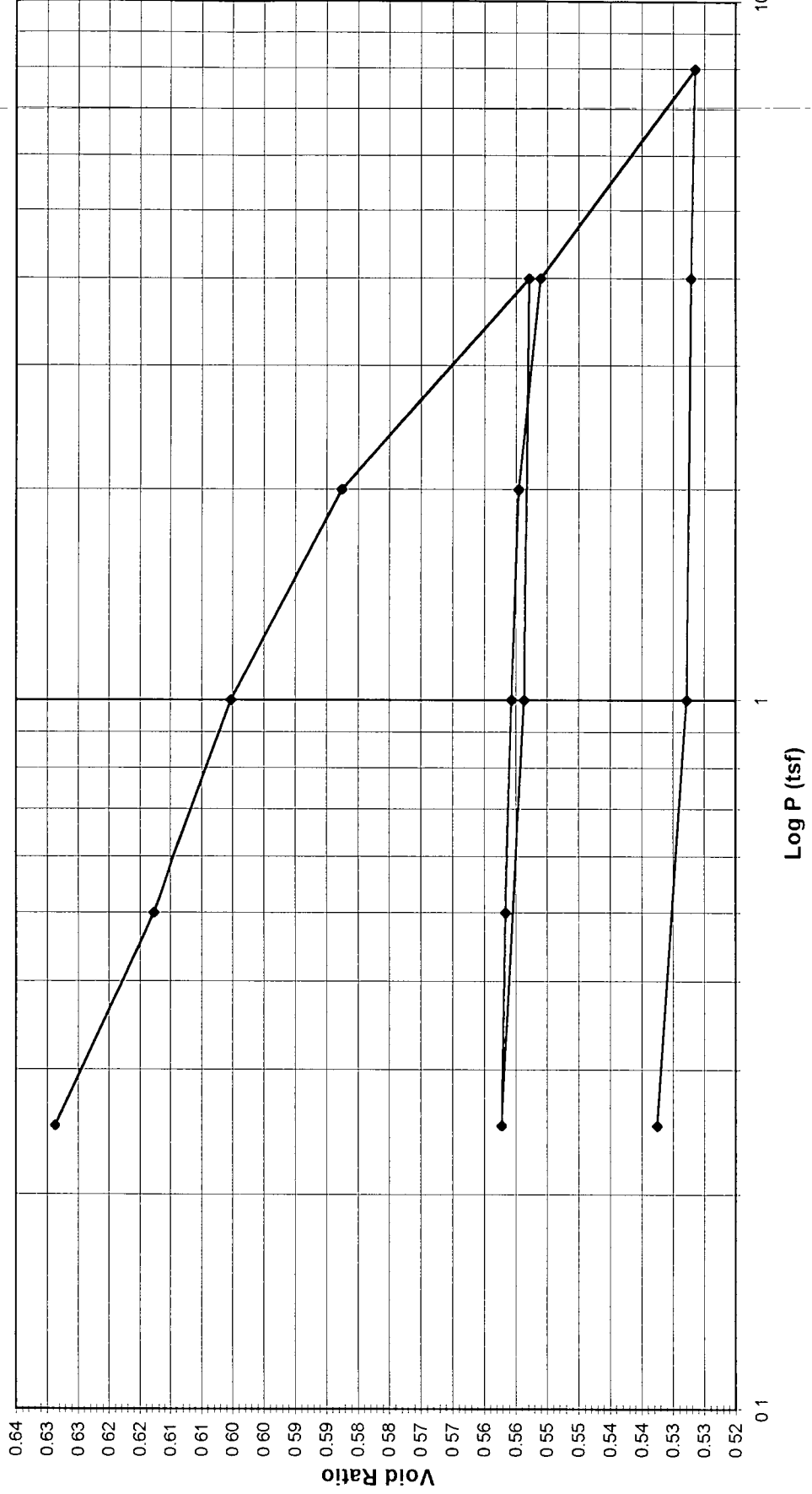


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 / AASHTO T216-03 (SOP-S24)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Reference	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-01	Sample No.	SS02
Lab ID	2004-221-01-04	Visual Description	GRAY STABILIZED MATERIAL WITH ROCK FRAGMENTS

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Tested By TM Date 7/23/04 Approved By DIS Date 7/29/04





# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 / AASHTO T216-03 (SOP-S24)

Client: BLASLAND, BOUCK, & LEE  
 Client Reference: GEHR TREATABILITY 204.302  
 Project No.: 2004-221-01  
 Lab ID: 2004-221-01-04

Boring No.: NA  
 Depth (ft): NA  
 Sample No.: SS02  
 Visual Description: GRAY STABILIZED MATERIAL WITH ROCK FRAGMENTS

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED

Consolidometer No. 3

1 Division = 0.0001 (in)

## Sample Properties

	Initial	Final
<i>Water Content</i>		
Tare Number	444	1399
Wt. Tare & WS (gm)	245.18	194.38
Wt. Tare & DS (gm)	219.64	169.99
Wt. Water (gm)	25.54	24.39
Wt. Tare (gm)	99.84	38.18
Wt. DS (gm)	119.80	131.81
Water Content (%)	21.32	18.50

## Sample Parameters

Sample Diameter (in)	2.5	2.5
Sample Height (in)	1	0.932
Sample Volume (cc)	80.44	74.99
Wt. of Wet Sample + Ring (gm)	306.26	302.54
Wt. of Ring (gm)	145.97	145.97
Wt. of Wet Sample (gm)	160.29	156.57
Wet Density (pcf)	124.34	130.28
Wet Density (g/cc)	1.99	2.09
Water Content (%)	21.32	18.50
Wt. of Dry Sample (gm)	132.12	132.12
Dry Density (pcf)	102.49	109.94
Dry Density (g/cc)	1.64	1.76
Void Ratio	0.6438	0.5325
Saturation (%)	89.40	93.82
Specific Gravity	2.70	Assumed

## Test Data Summary

Applied Pressure (tsf)	Final Dial Reading (div)	Machine Deflection (div)	Corrected Reading (div)	Height of Sample (mm)	Volume (cc)	Dry Density (g/cc)	Void Ratio
Seating	0	0	0	25.400	80.440	1.64251	0.64383
0.25	93.1	0.8	92.3	25.166	79.698	1.65780	0.62866
0.5	191.6	2.5	189.2	24.920	78.918	1.67417	0.61274
1	272.3	7.6	264.7	24.728	78.310	1.68717	0.60031
2	388.6	15.6	373.0	24.453	77.440	1.70614	0.58252
4	582.0	28.7	553.3	23.995	75.989	1.73872	0.55287
1	560.3	11.6	548.7	24.006	76.026	1.73786	0.55363
0.25	531.5	4.4	527.1	24.061	76.200	1.73390	0.55719
0.5	535.4	4.8	530.6	24.052	76.171	1.73455	0.55660
1	544.3	8.1	536.3	24.038	76.126	1.73558	0.55568
2	559.3	16.3	543.0	24.021	76.072	1.73682	0.55457
4	591.6	27.5	564.1	23.967	75.902	1.74070	0.55110
8	756.9	43.0	713.9	23.587	74.697	1.76879	0.52647
4	748.0	38.7	709.4	23.598	74.734	1.76791	0.52722
1	721.3	16.2	705.1	23.609	74.768	1.76711	0.52792
0.25	685.0	7.8	677.2	23.680	74.992	1.76182	0.53251

Tested By: TM Date: 7/23/04 Input Checked By: GJJ Date: 7/29/04

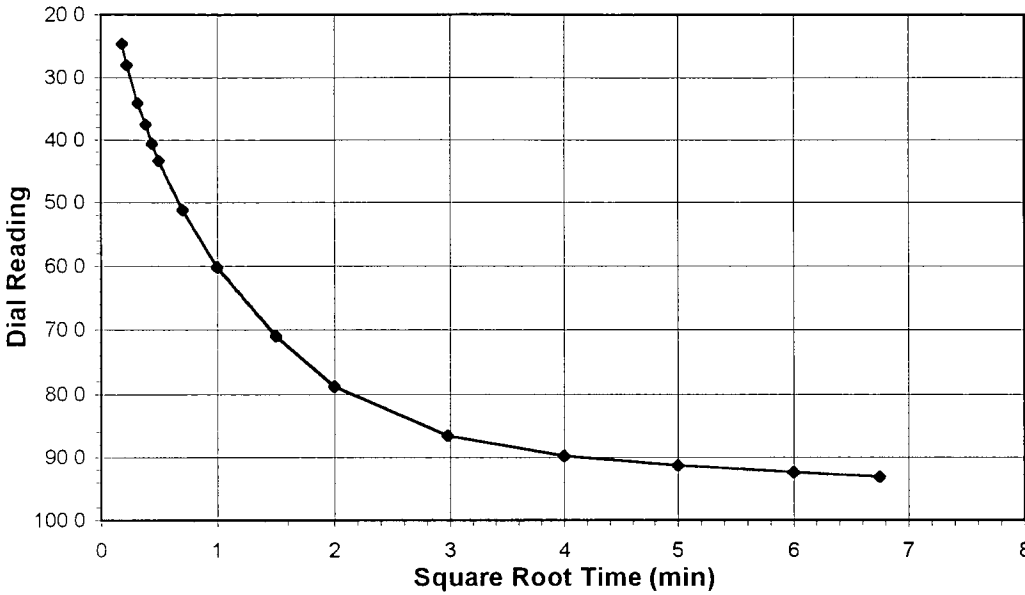


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

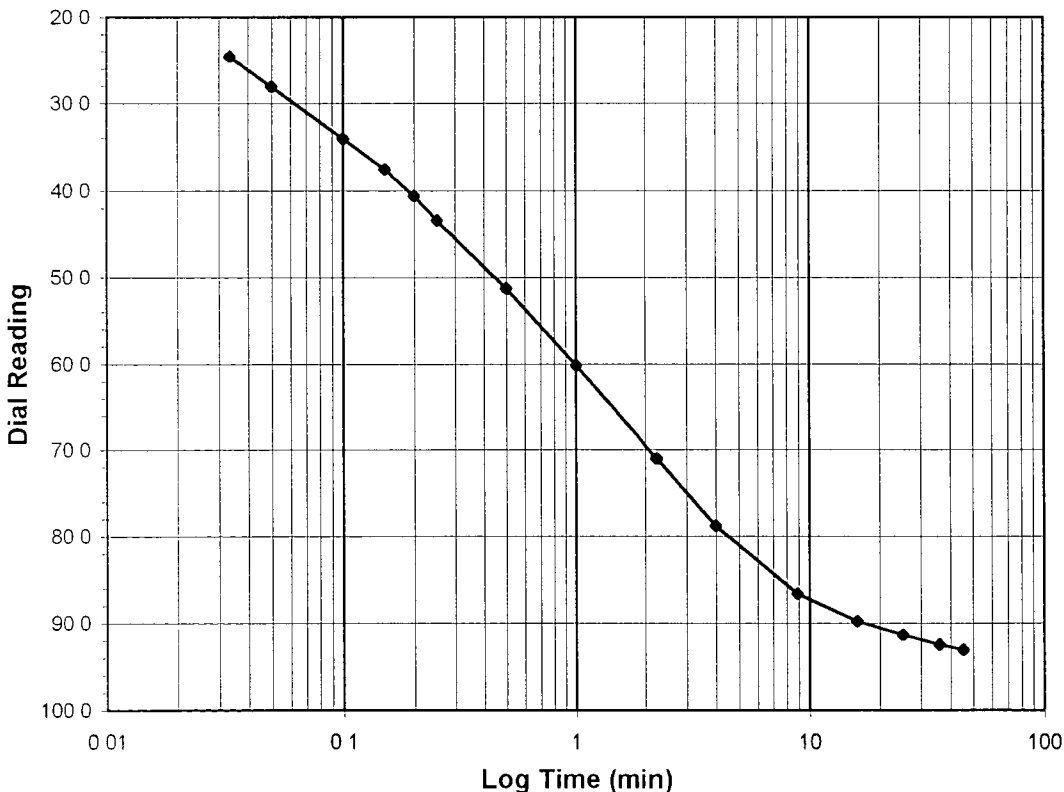
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-01	Sample No.	SS02
Lab ID	2004-221-01-04	Visual Description	GRAY STABILIZED MATERIAL WITH ROCK FRAGMENTS

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0-0.25
Final Reading (div)	93.1
Consolidometer No.	3
1 Division (in)	0.0001
Start Date	7/23/04
Start Time	12:55:28

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	0.0
0.03	24.6
0.05	28.0
0.10	34.1
0.15	37.5
0.20	40.6
0.25	43.4
0.50	51.2
1.00	60.2
2.25	71.1
4.00	78.8
8.87	86.6
16.00	89.8
25.00	91.3
36.00	92.4
45.52	93.1



Tested By *TM* Date *7/23/04* Checked By *GU* Date *7/29/04*

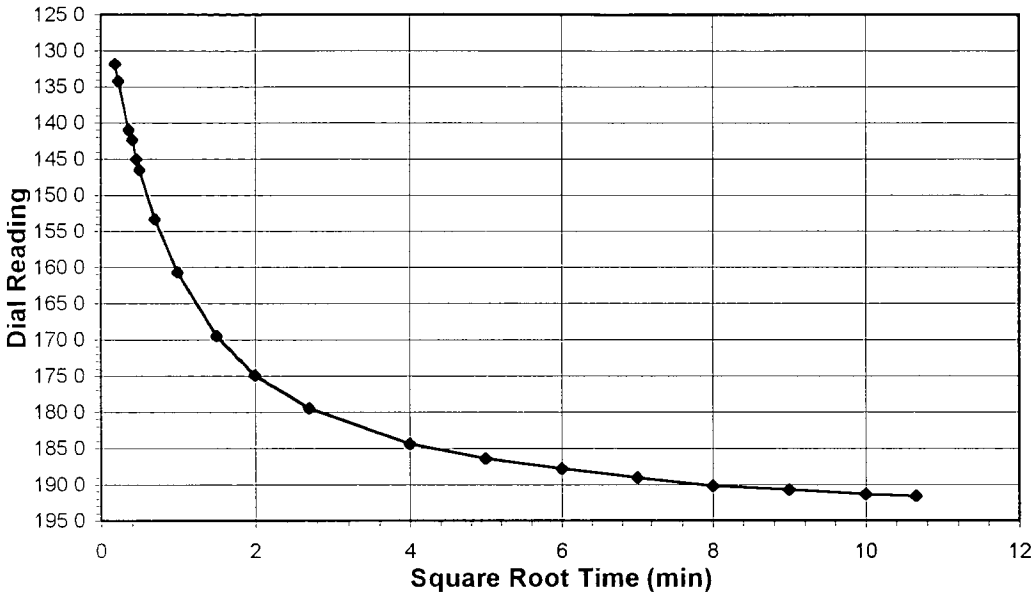


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

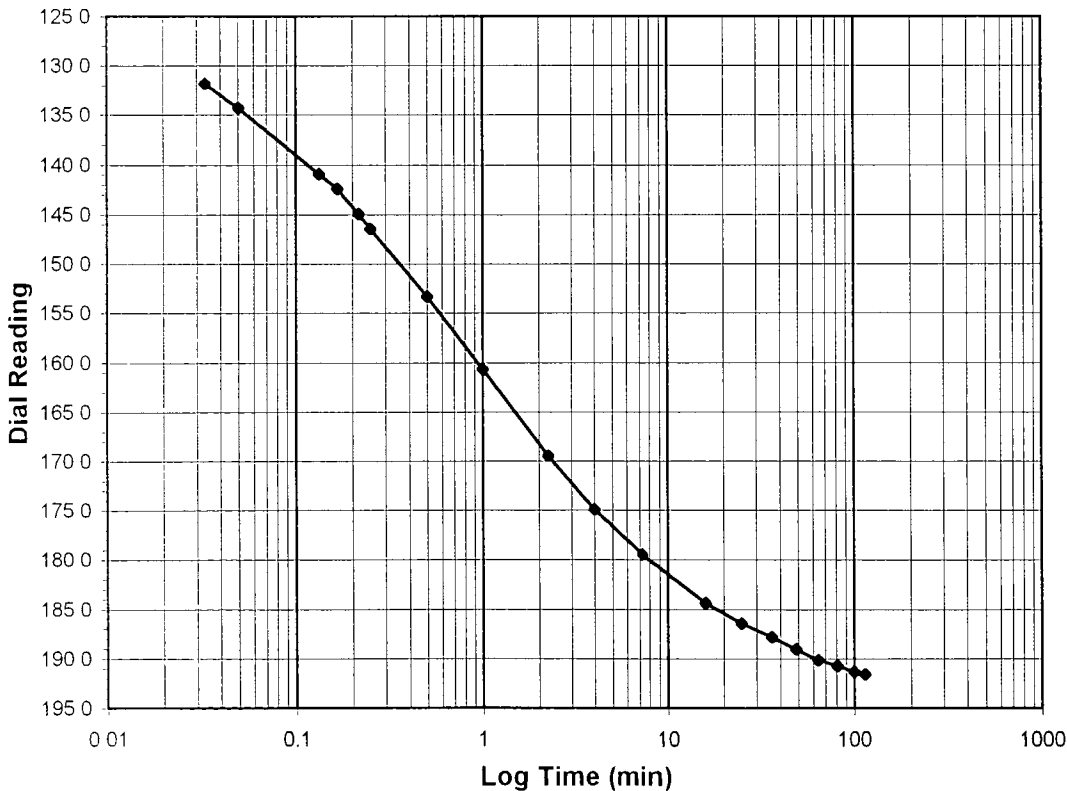
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-01	Sample No.	SS02
Lab ID	2004-221-01-04	Visual Description	GRAY STABILIZED MATERIAL WITH ROCK FRAGMENTS

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.25-0.5
Final Reading (div)	191.6
Consolidometer No.	3
1 Division (in)	0.0001
Start Date	7/23/04
Start Time	13:42:58

Elapsed Time (min)	Dial Reading (div)
Initial	93.1
0.03	131.8
0.05	134.3
0.13	140.9
0.17	142.4
0.22	145.0
0.25	146.5
0.50	153.3
1.00	160.7
2.25	169.5
4.00	174.9
7.27	179.5
16.00	184.4
25.00	186.4
36.02	187.8
49.00	189.1
64.00	190.1
81.00	190.7
100.00	191.3
113.63	191.6



Tested By TM Date 7/23/04 Checked By EU Date 7/29/04



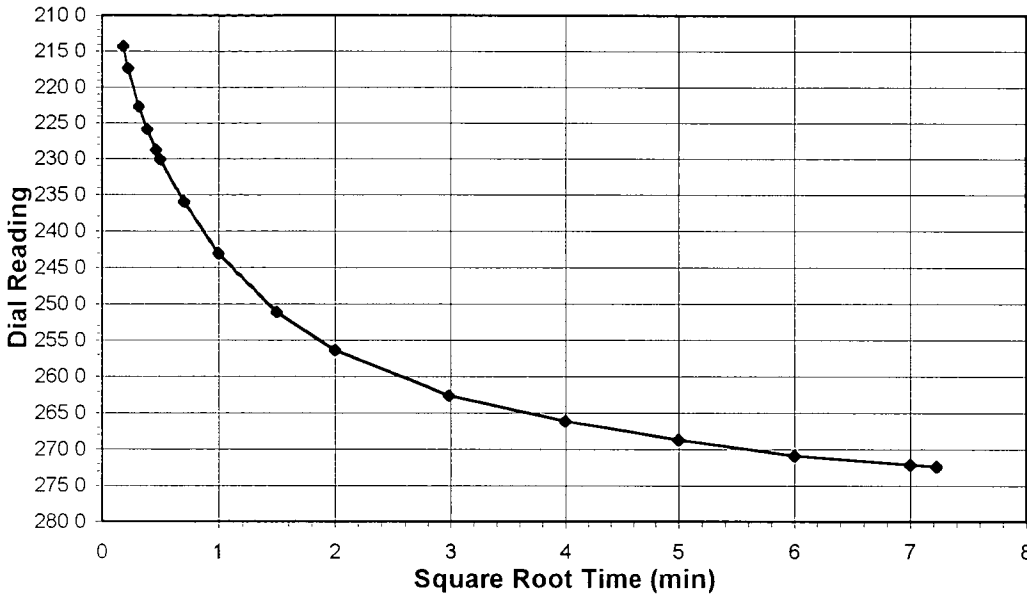
# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

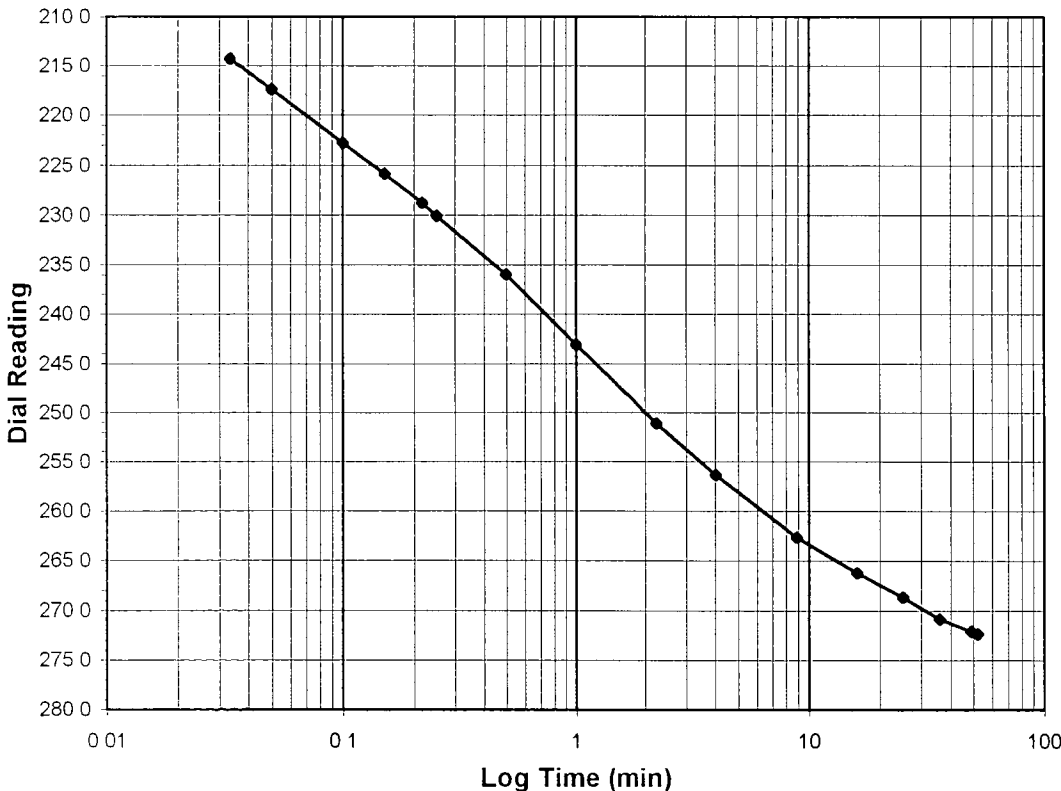
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-01	Sample No.	SS02
Lab ID	2004-221-01-04	Visual Description	GRAY STABILIZED MATERIAL WITH ROCK FRAGMENTS

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED

Test Load (tsf)	0.5-1.0
Final Reading (div)	272.3
Consolidometer No.	3
1 Division (in)	0.0001
Start Date	7/23/04
Start Time	15:39:51



Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>191.6</b>
0.03	214.3
0.05	217.4
0.10	222.7
0.15	225.9
0.22	228.8
0.25	230.1
0.50	235.9
1.00	243.1
2.25	251.1
4.02	256.4
8.88	262.7
16.00	266.2
25.00	268.7
36.00	270.9
49.00	272.1
52.23	272.3



Tested By TM Date 7/23/04 Checked By GU Date 7/29/04

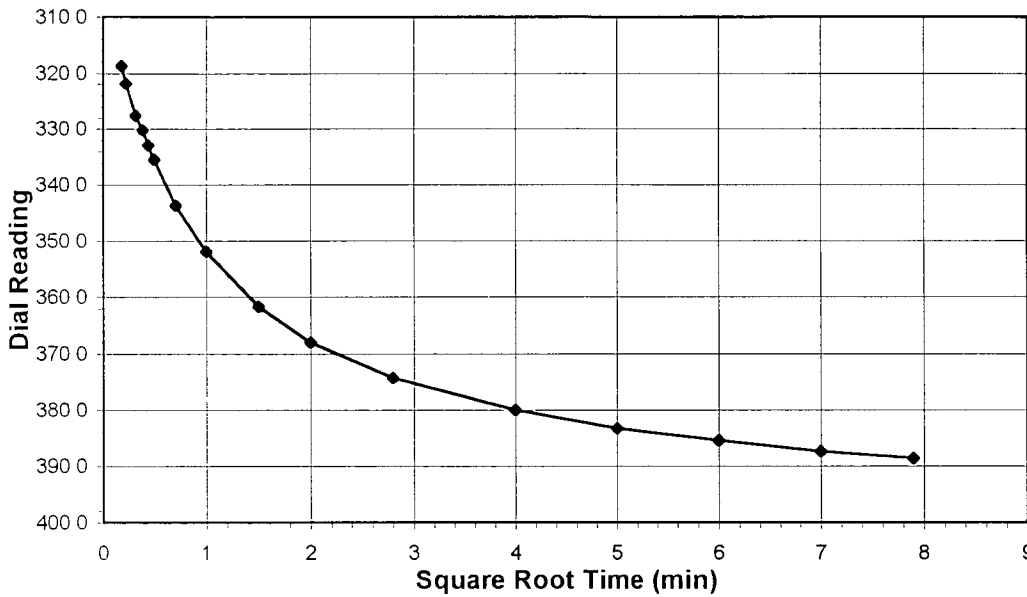


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

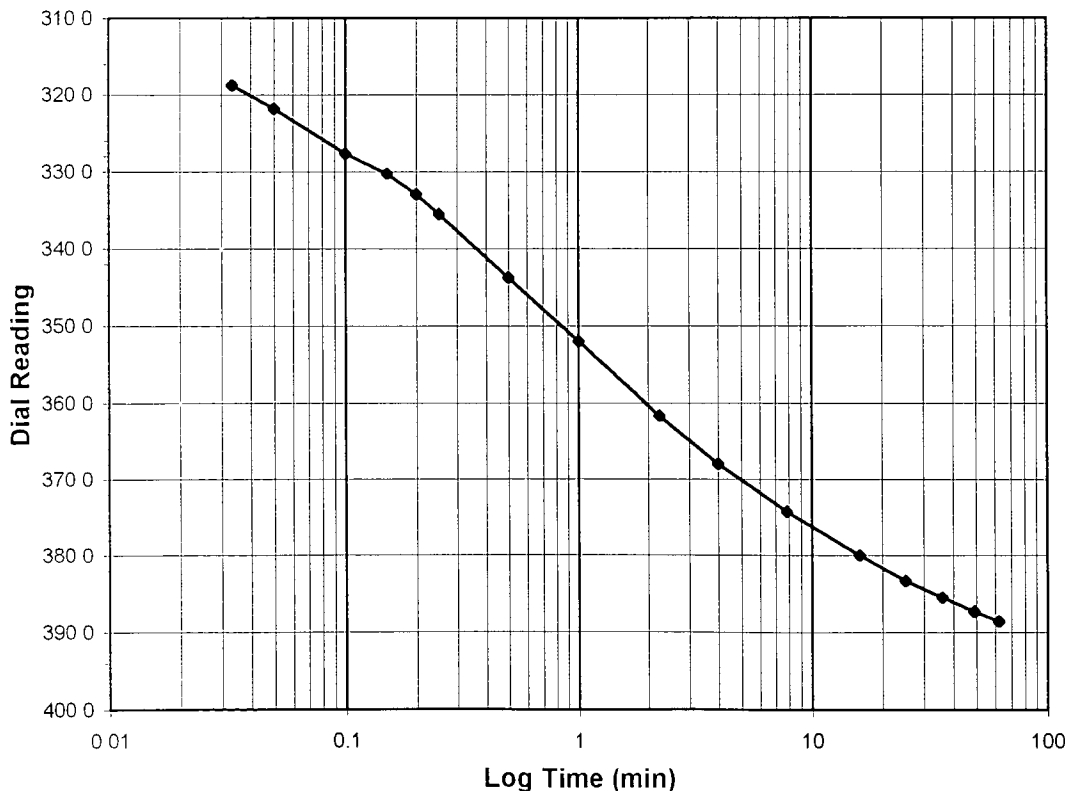
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-01	Sample No.	SS02
Lab ID	2004-221-01-04	Visual Description	GRAY STABILIZED MATERIAL WITH ROCK FRAGMENTS

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	1.0-2.0
Final Reading (div)	388.6
Consolidometer No.	3
1 Division (in)	0.0001
Start Date	7/24/04
Start Time	6:03:54

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>272.3</b>
0.03	318.7
0.05	321.8
0.10	327.6
0.15	330.2
0.20	332.9
0.25	335.4
0.50	343.7
1.00	351.9
2.25	361.7
4.00	368.0
7.82	374.3
16.02	380.0
25.00	383.3
36.00	385.5
49.00	387.4
62.43	388.6



Tested By TM Date 7/24/04 Checked By GU Date 7/29/04

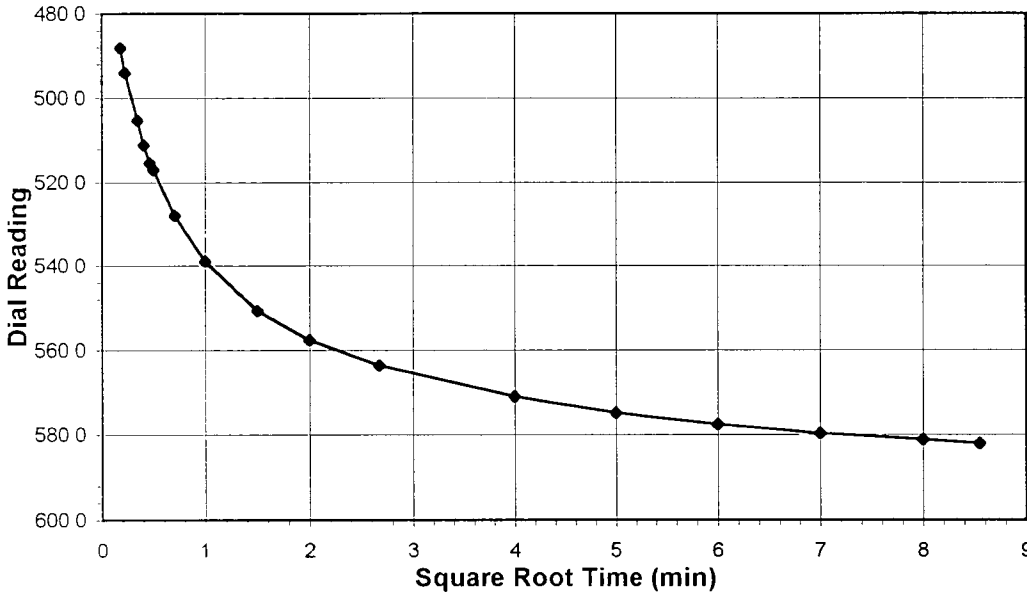


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-01	Sample No.	SS02
Lab ID	2004-221-01-04	Visual Description	GRAY STABILIZED MATERIAL WITH ROCK FRAGMENTS

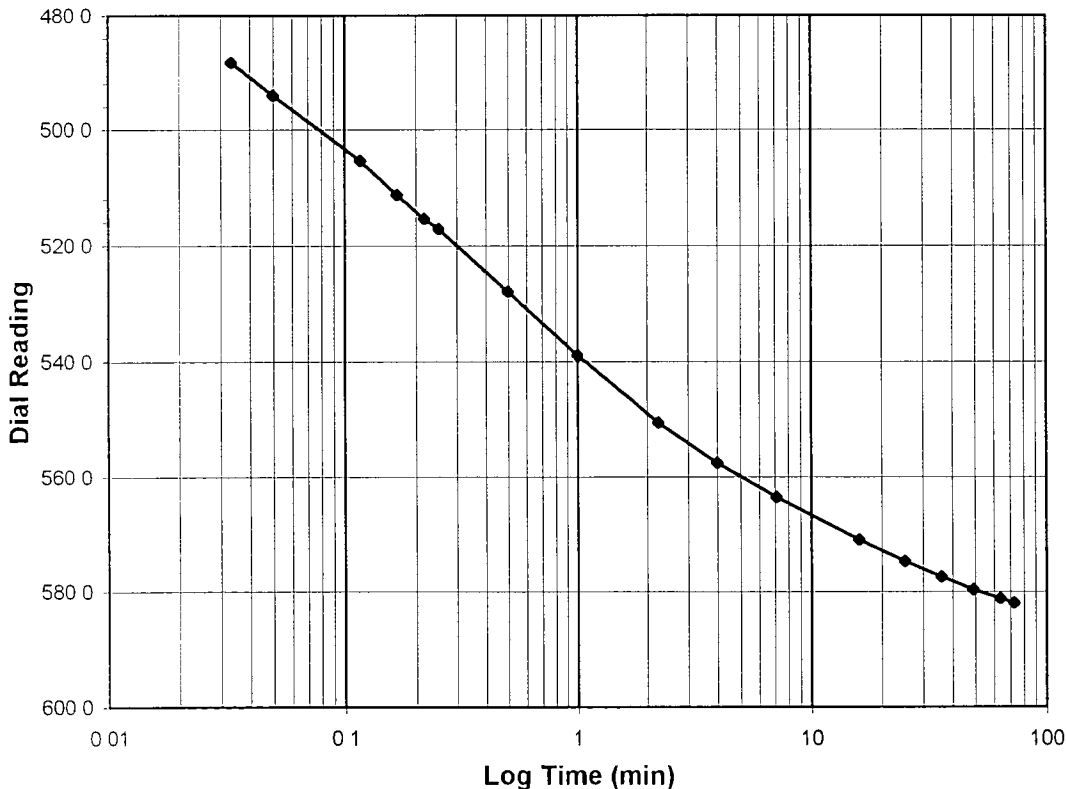
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	2.0-4.0
Final Reading (div)	582.0
Consolidometer No.	3
1 Division (in)	0.0001

Start Date	7/24/04
Start Time	7:13:58

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>388.6</b>
0.03	488.2
0.05	494.0
0.12	505.3
0.17	511.2
0.22	515.3
0.25	517.1
0.50	528.0
1.00	538.9
2.25	550.6
4.00	557.6
7.13	563.6
16.00	571.0
25.00	574.9
36.00	577.5
49.00	579.7
64.00	581.3
73.10	582.0



Tested By TM Date 7/24/04 Checked By GU Date 7/29/14



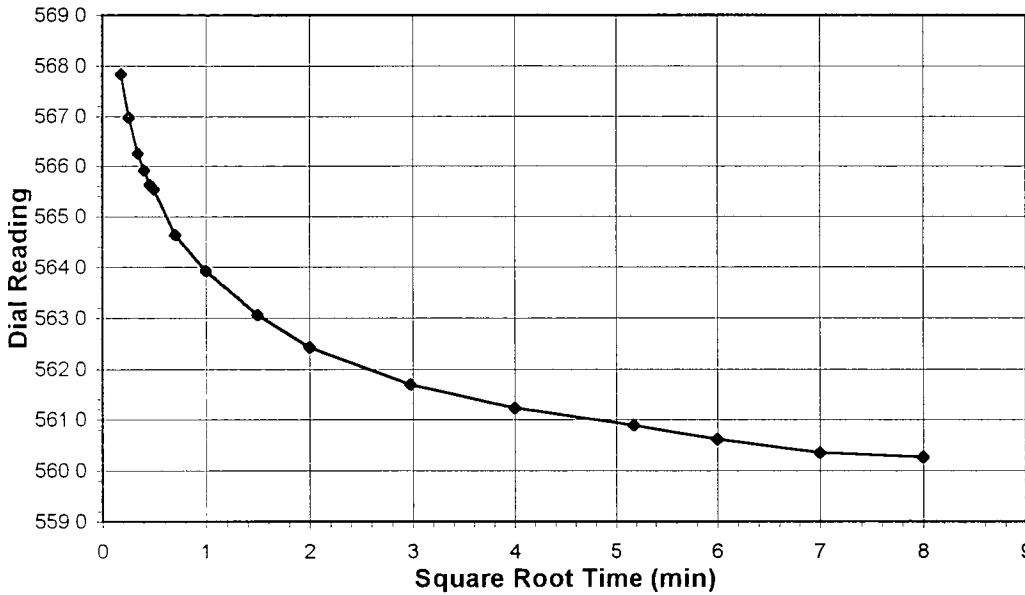
# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

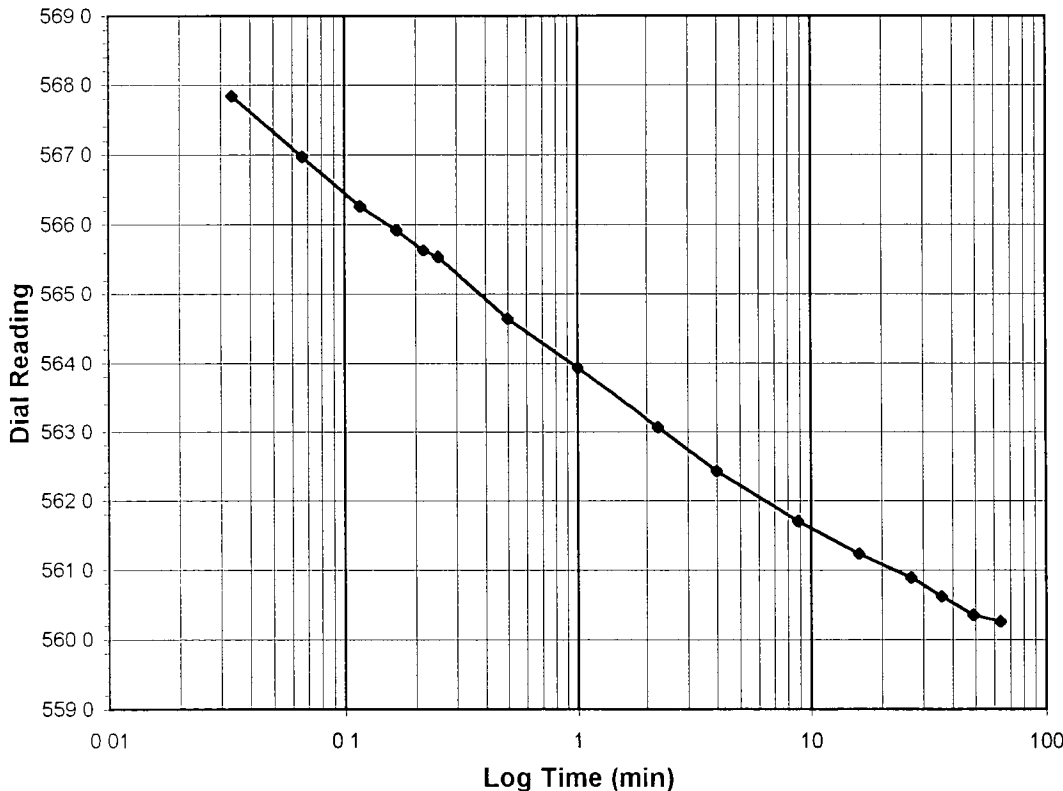
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-01	Sample No.	SS02
Lab ID	2004-221-01-04	Visual Description	GRAY STABILIZED MATERIAL WITH ROCK FRAGMENTS

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED

Test Load (tsf)	4.0-1.0
Final Reading (div)	560.3
Consolidometer No.	3
1 Division (in)	0.0001
Start Date	7/24/04
Start Time	8:30:02



Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>582.0</b>
0.03	567.8
0.07	567.0
0.12	566.3
0.17	565.9
0.22	565.6
0.25	565.5
0.50	564.6
1.00	563.9
2.25	563.1
4.00	562.4
8.83	561.7
16.00	561.2
26.78	560.9
36.00	560.6
49.00	560.4
64.00	560.3



Tested By TM Date 7/24/04 Checked By GU Date 7/29/04

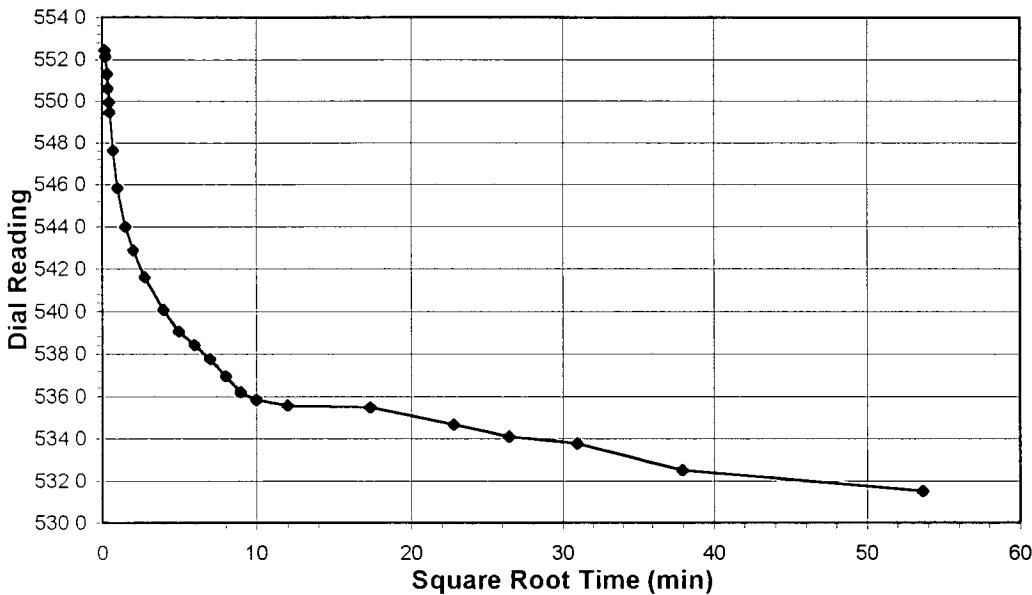


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

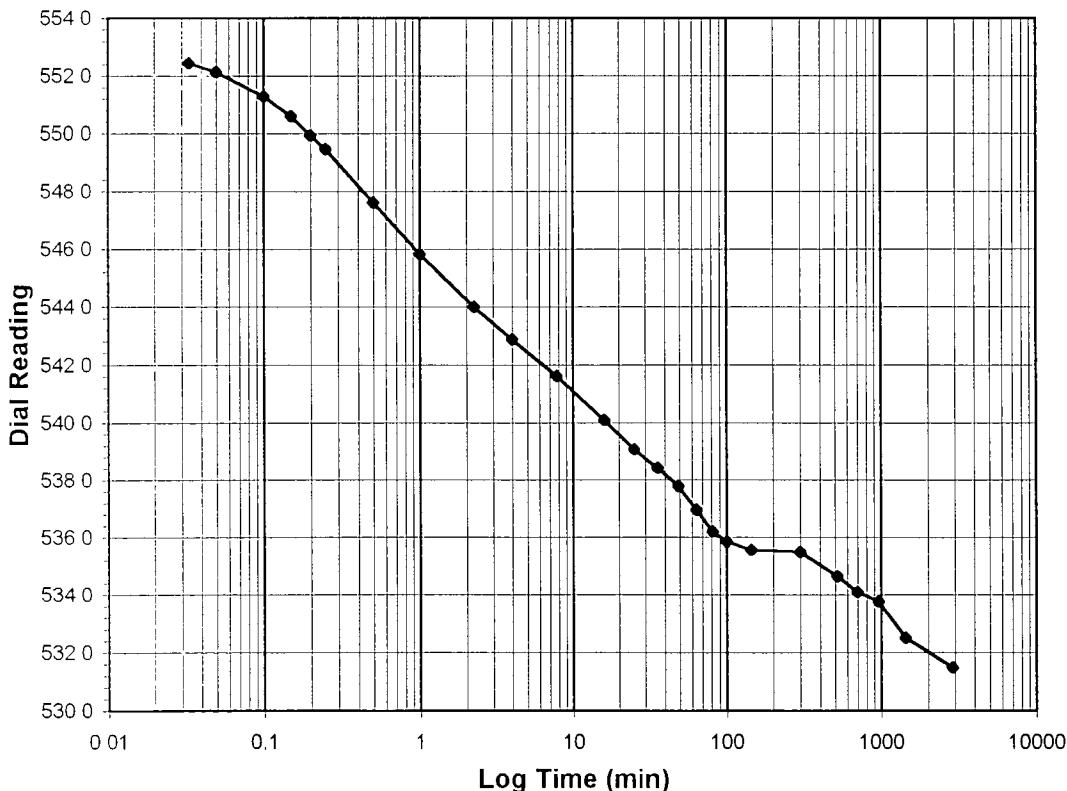
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-01	Sample No.	SS02
Lab ID	2004-221-01-04	Visual Description	GRAY STABILIZED MATERIAL WITH ROCK FRAGMENTS

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	1.0-0.25
Final Reading (div)	531.5
Consolidometer No.	3
1 Division (in)	0.0001
Start Date	7/24/04
Start Time	9:44:11

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>560.3</b>
0.03	552.5
0.05	552.1
0.10	551.3
0.15	550.6
0.20	549.9
0.25	549.5
0.50	547.6
1.00	545.8
2.25	544.0
4.00	542.9
7.77	541.6
16.00	540.1
25.00	539.1
36.00	538.4
49.00	537.8
64.00	536.9
81.00	536.2
100.00	535.8
144.00	535.6
300.00	535.5
520.00	534.7
700.00	534.1
960.00	533.8
1440.00	532.5
2880.00	531.5



Tested By TM Date 7/24/04 Checked By GU Date 7/29/14



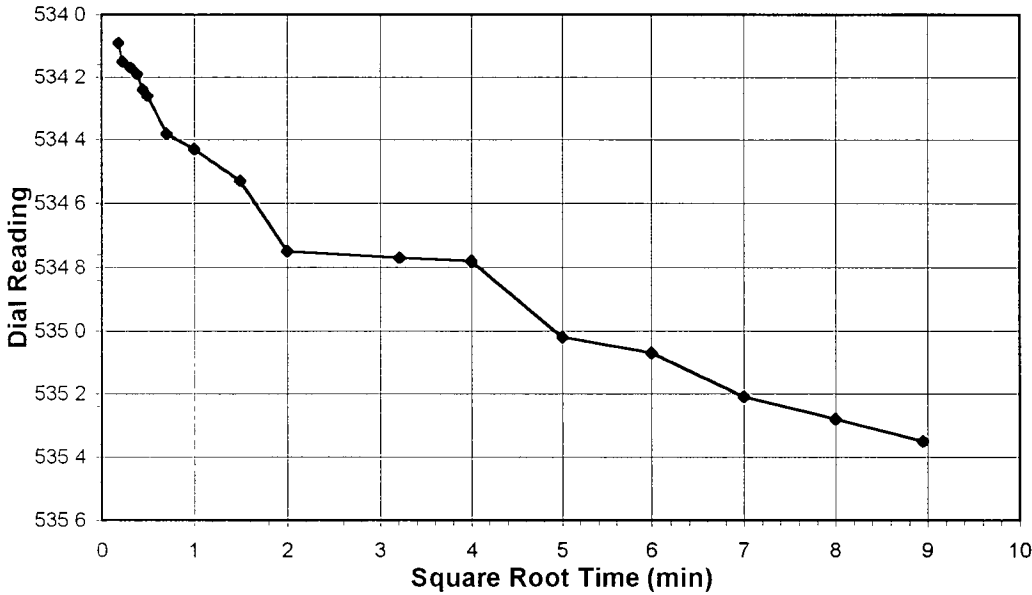


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

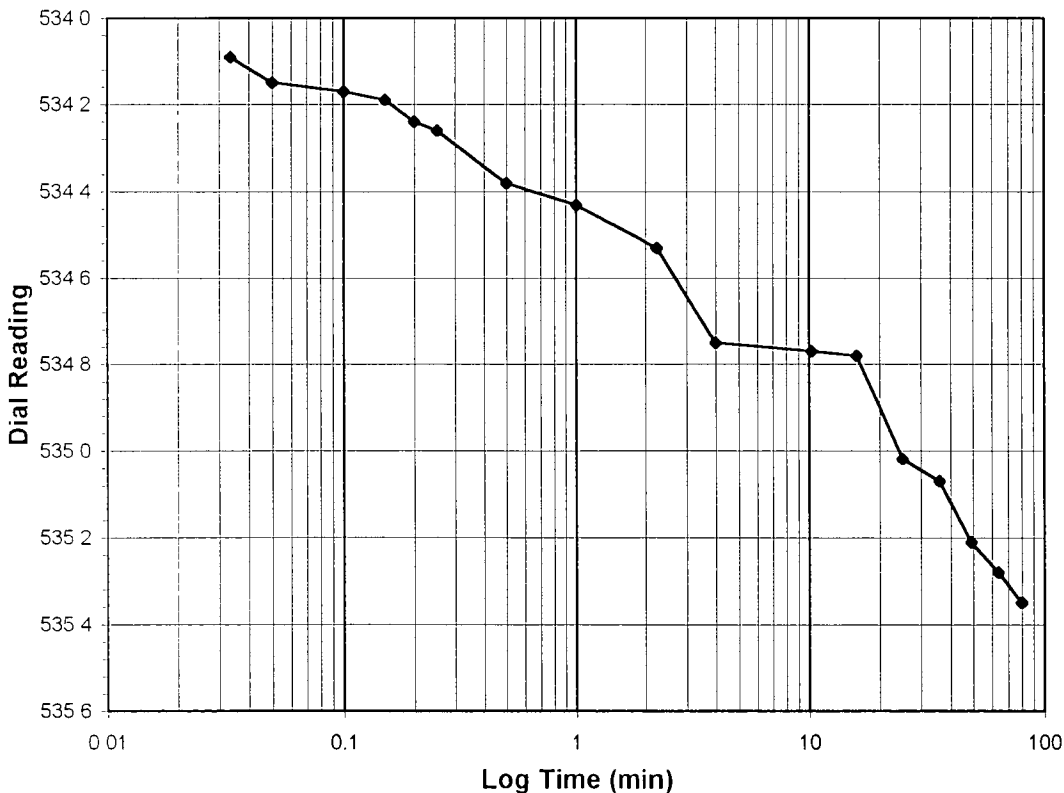
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-01	Sample No.	SS02
Lab ID	2004-221-01-04	Visual Description	GRAY STABILIZED MATERIAL WITH ROCK FRAGMENTS

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.25-0.5
Final Reading (div)	535.4
Consolidometer No.	3
1 Division (in)	0.0001
Start Date	7/26/04
Start Time	10:09:55

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>531.5</b>
0.03	534.1
0.05	534.2
0.10	534.2
0.15	534.2
0.20	534.2
0.25	534.3
0.50	534.4
1.00	534.4
2.25	534.5
4.00	534.8
10.32	534.8
16.00	534.8
25.00	535.0
36.00	535.1
49.00	535.2
64.00	535.3
80.05	535.4



Tested By *TM* Date *7/26/04* Checked By *GU* Date *7/29/04*

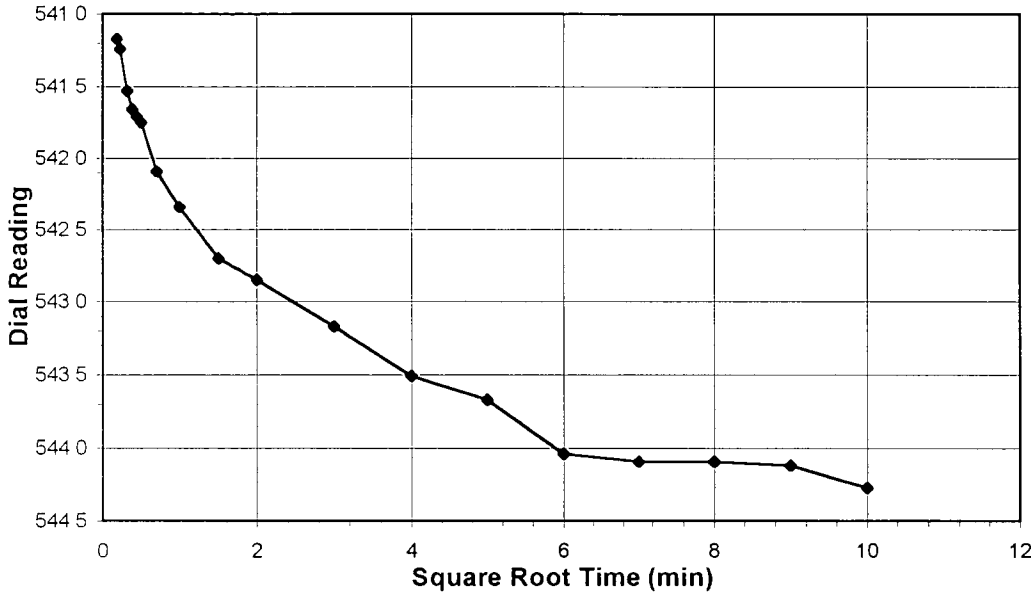


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

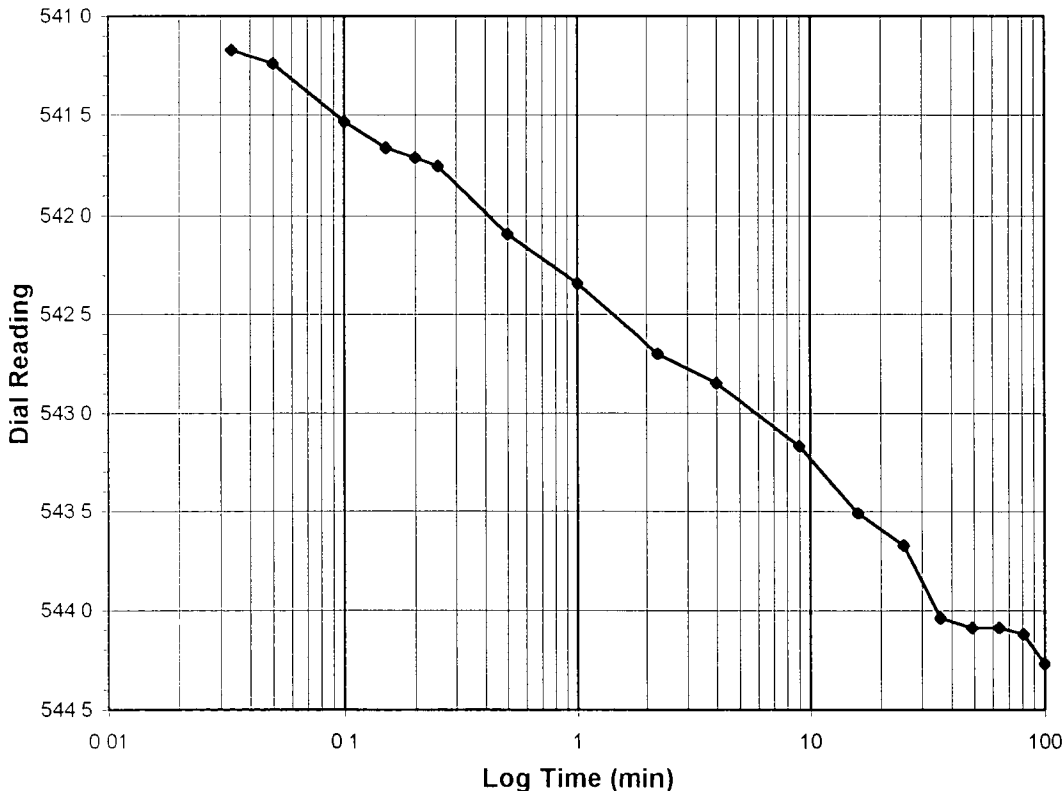
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-01	Sample No.	SS02
Lab ID	2004-221-01-04	Visual Description	GRAY STABILIZED MATERIAL WITH ROCK FRAGMENTS

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.5-1.0
Final Reading (div)	544.3
Consolidometer No.	3
1 Division (in)	0.0001
Start Date	7/26/04
Start Time	11:34:40

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>535.4</b>
0.03	541.2
0.05	541.2
0.10	541.5
0.15	541.7
0.20	541.7
0.25	541.8
0.50	542.1
1.00	542.3
2.25	542.7
4.00	542.9
8.98	543.2
16.00	543.5
25.00	543.7
36.02	544.0
49.00	544.1
64.00	544.1
81.00	544.1
100.00	544.3



Tested By *TM* Date *7/26/04* Checked By *GU* Date *7/29/04*

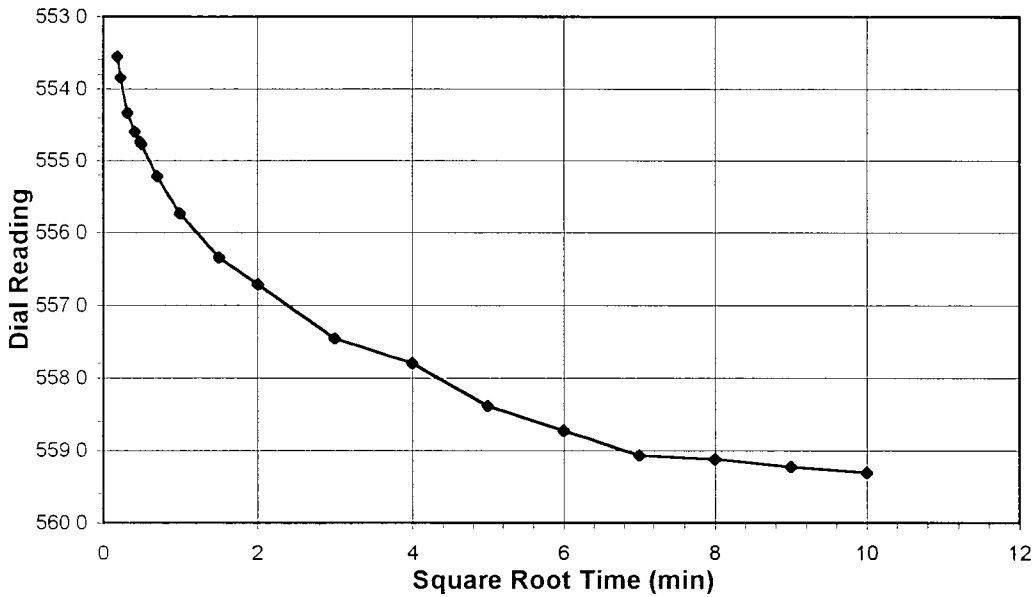


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

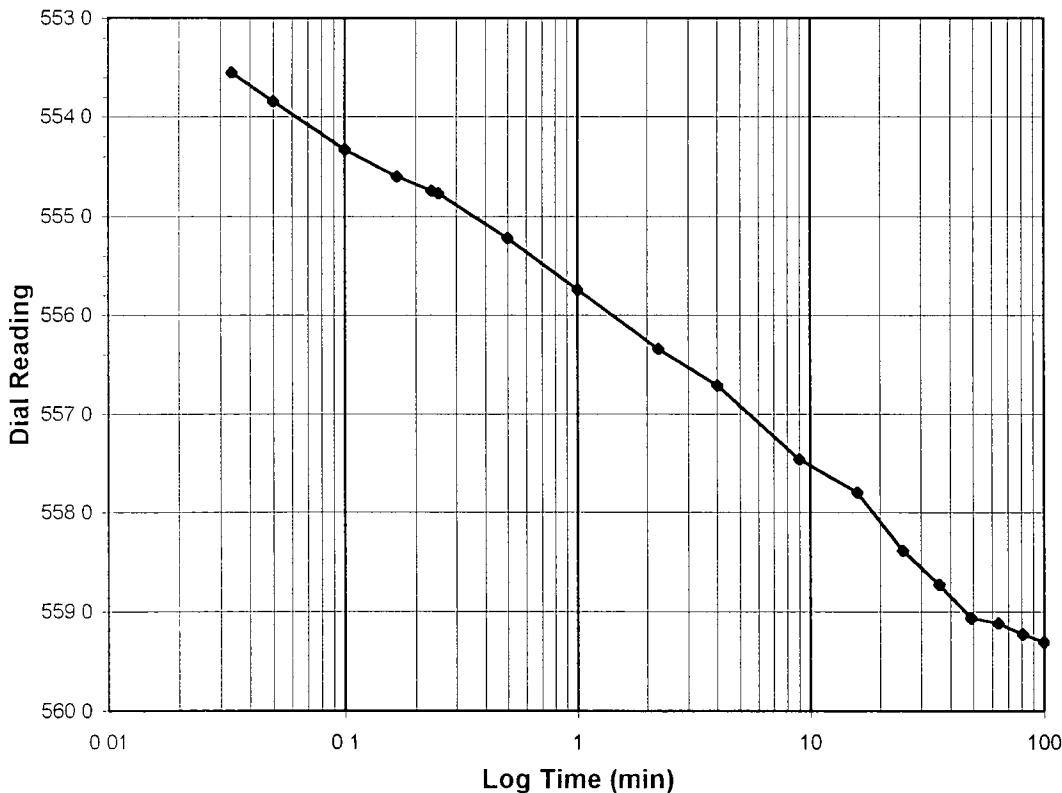
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-01	Sample No.	SS02
Lab ID	2004-221-01-04	Visual Description	GRAY STABILIZED MATERIAL WITH ROCK FRAGMENTS

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	1.0-2.0
Final Reading (div)	559.3
Consolidometer No.	3
1 Division (in)	0.0001
Start Date	7/26/04
Start Time	13:23:28

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>544.3</b>
0.03	553.6
0.05	553.8
0.10	554.3
0.17	554.6
0.23	554.7
0.25	554.8
0.50	555.2
1.00	555.7
2.25	556.3
4.02	556.7
8.98	557.5
16.00	557.8
25.00	558.4
36.00	558.7
49.02	559.1
64.00	559.1
81.02	559.2
100.00	559.3



Tested By *TM* Date *7/26/04* Checked By *GU* Date *7/29/14*

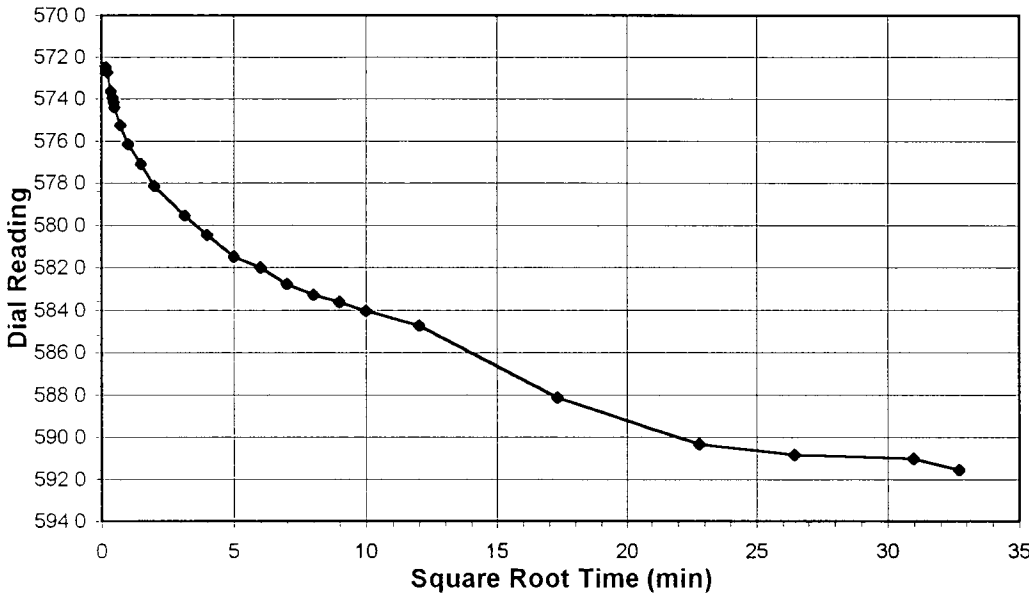


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

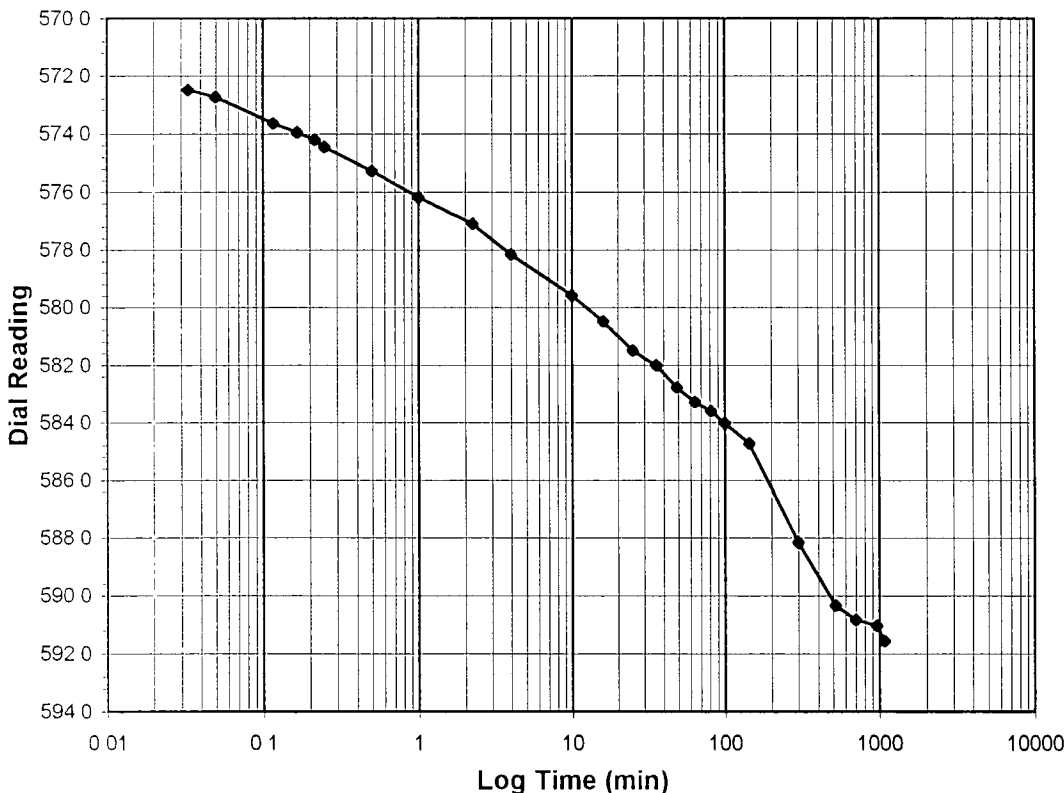
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-01	Sample No.	SS02
Lab ID	2004-221-01-04	Visual Description	GRAY STABILIZED MATERIAL WITH ROCK FRAGMENTS

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	2.0-4.0
Final Reading (div)	591.6
Consolidometer No.	3
1 Division (in)	0.0001
Start Date	7/26/04
Start Time	15:27:32

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>559.3</b>
0.03	572.5
0.05	572.7
0.12	573.6
0.17	574.0
0.22	574.2
0.25	574.4
0.50	575.3
1.00	576.2
2.25	577.1
4.00	578.2
9.97	579.6
16.00	580.5
25.00	581.5
36.00	582.0
49.00	582.8
64.00	583.3
81.00	583.6
100.00	584.0
144.00	584.7
300.00	588.2
520.00	590.3
700.00	590.8
960.00	591.0
1071.22	591.6



Tested By TM Date 7/26/04 Checked By C-U Date 7/29/04

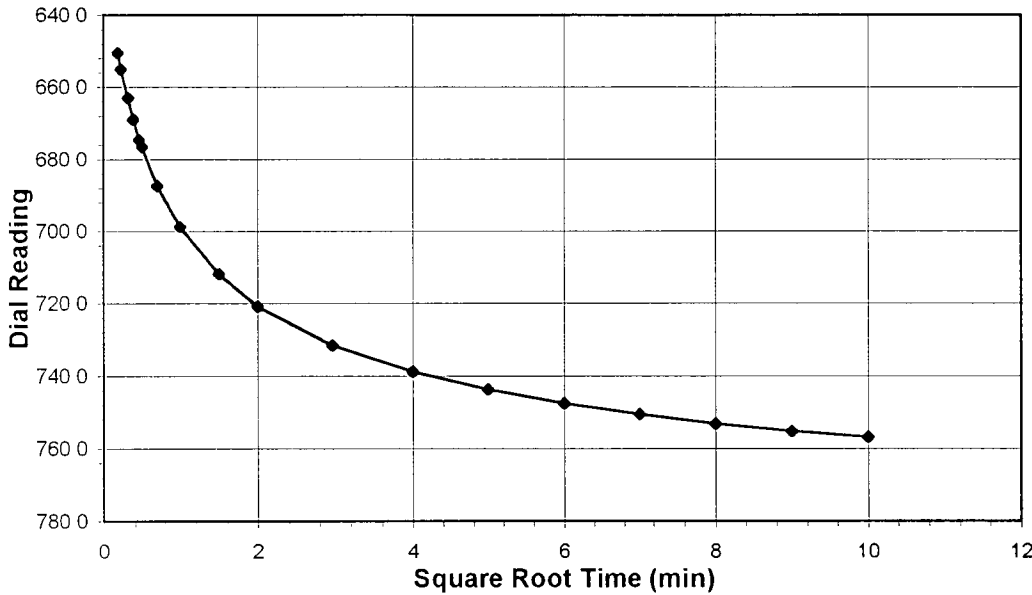


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

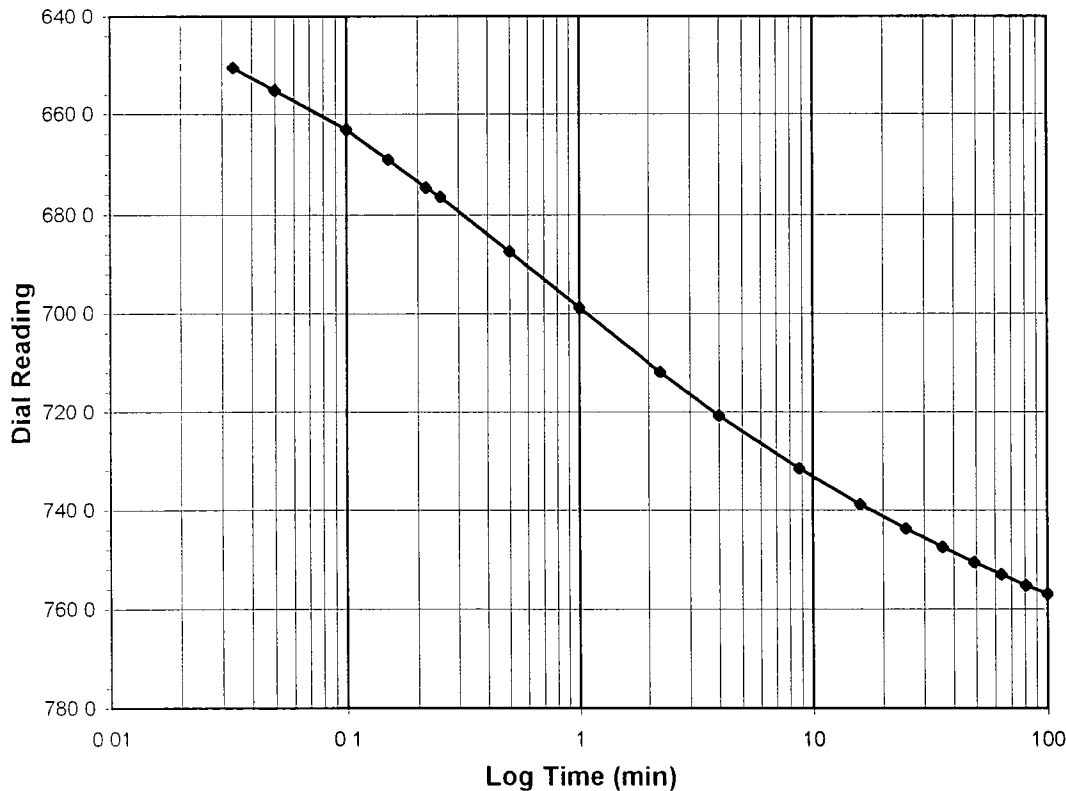
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-01	Sample No.	SS02
Lab ID	2004-221-01-04	Visual Description	GRAY STABILIZED MATERIAL WITH ROCK FRAGMENTS

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	4.0-8.0
Final Reading (div)	756.9
Consolidometer No.	3
1 Division (in)	0.0001
Start Date	7/27/04
Start Time	9:28:28

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>591.6</b>
0.03	650.5
0.05	655.1
0.10	663.0
0.15	669.0
0.22	674.6
0.25	676.4
0.50	687.3
1.00	698.7
2.25	711.9
4.00	720.9
8.80	731.6
16.00	738.8
25.00	743.7
36.00	747.5
49.00	750.6
64.00	753.1
81.00	755.3
100.00	756.9



Tested By TM Date 7/27/04 Checked By GU Date 7/29/04

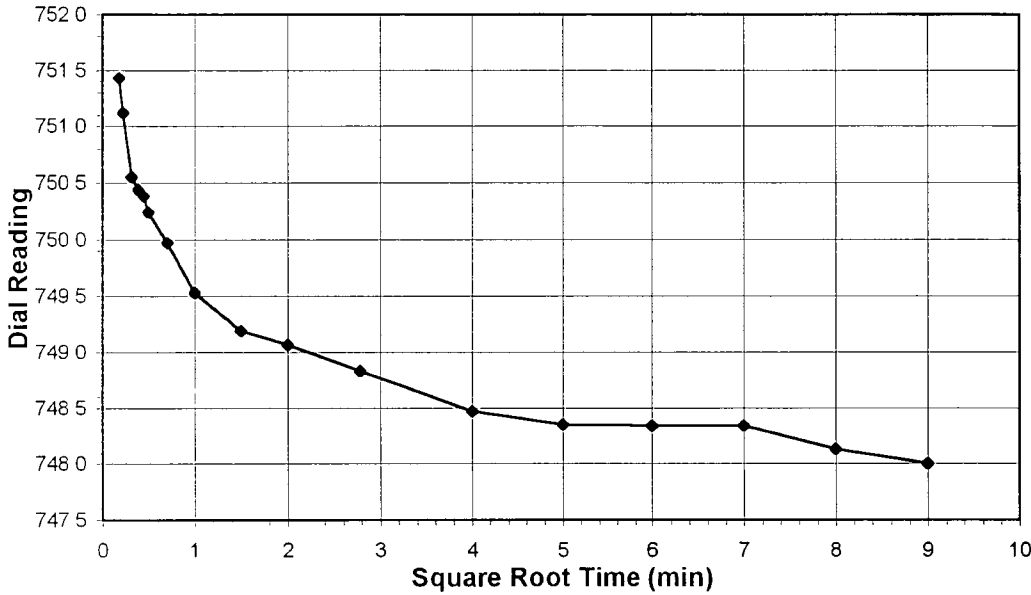


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

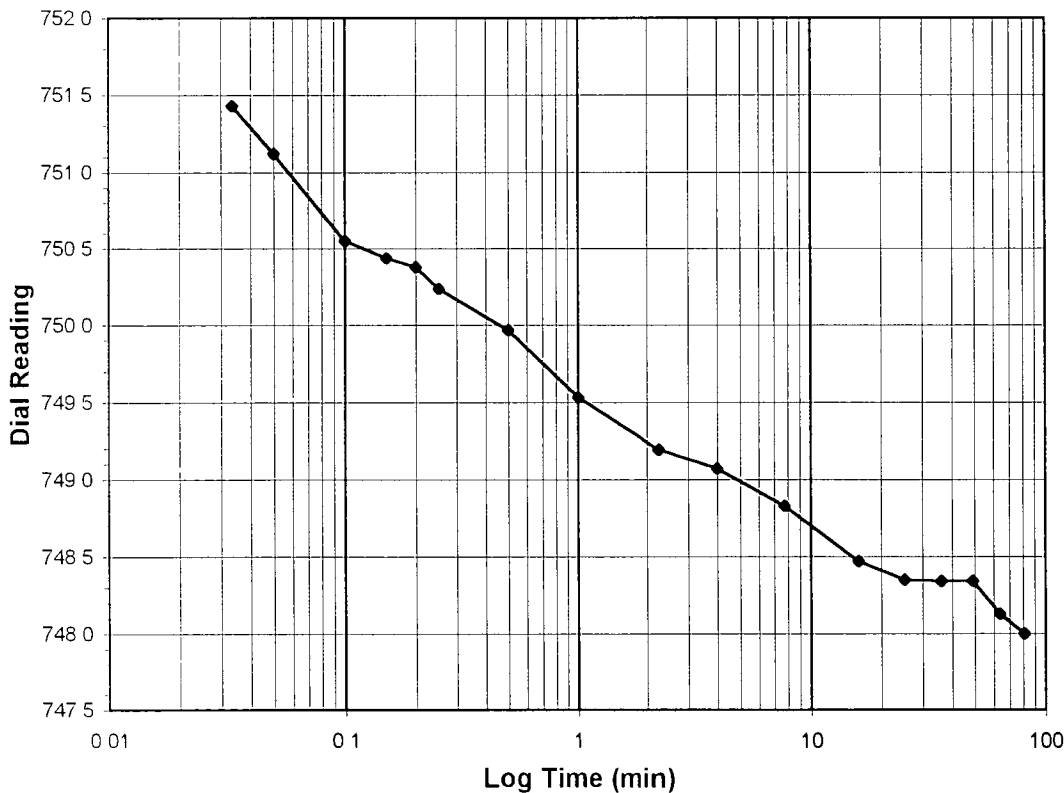
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-01	Sample No.	SS02
Lab ID	2004-221-01-04	Visual Description	GRAY STABILIZED MATERIAL WITH ROCK FRAGMENTS

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



<b>Test Load</b> (tsf)	<b>8.0-4.0</b>
<b>Final Reading</b> (div)	<b>748.0</b>
Consolidometer No.	3
1 Division (in)	0.0001
<b>Start Date</b>	<b>7/27/04</b>
<b>Start Time</b>	<b>11:33:51</b>

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>756.9</b>
0.03	751.4
0.05	751.1
0.10	750.6
0.15	750.4
0.20	750.4
0.25	750.2
0.50	750.0
1.00	749.5
2.25	749.2
4.00	749.1
7.77	748.8
16.00	748.5
25.00	748.4
36.00	748.3
49.00	748.3
64.02	748.1
81.00	748.0



Tested By **TM** Date **7/27/04** Checked By **GU** Date **7/29/04**

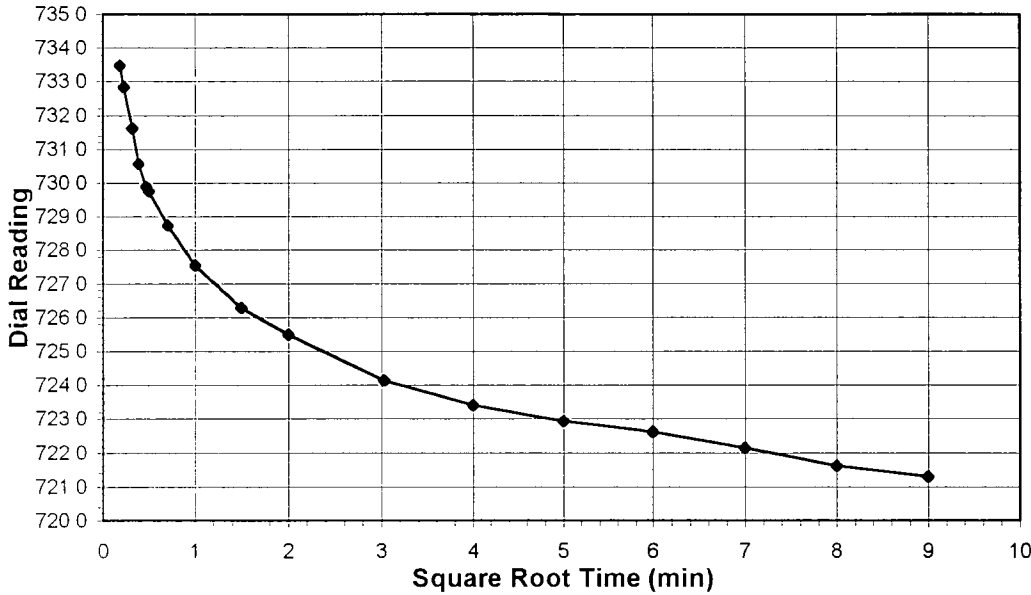


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-01	Sample No.	SS02
Lab ID	2004-221-01-04	Visual Description	GRAY STABILIZED MATERIAL WITH ROCK FRAGMENTS

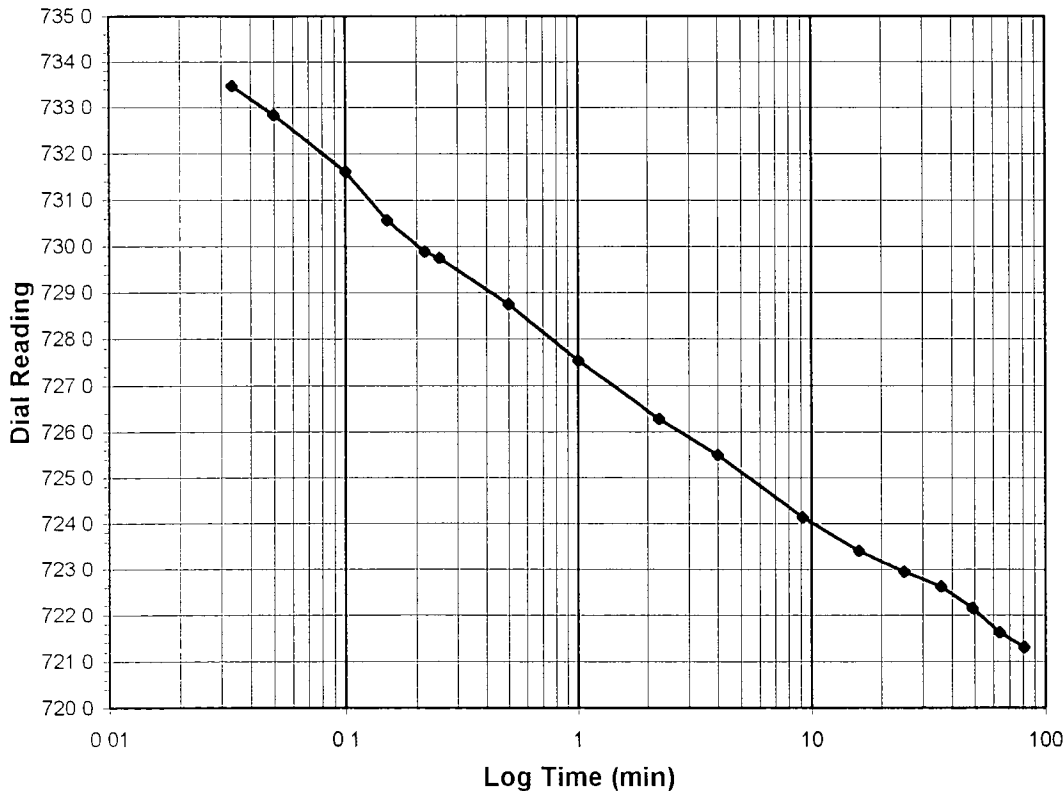
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	4.0-1.0
Final Reading (div)	721.3
Consolidometer No.	3
1 Division (in)	0.0001

Start Date	7/27/04
Start Time	13:07:57

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>748.0</b>
0.03	733.5
0.05	732.8
0.10	731.6
0.15	730.6
0.22	729.9
0.25	729.8
0.50	728.8
1.00	727.5
2.25	726.3
4.00	725.5
9.20	724.1
16.00	723.4
25.00	722.9
36.00	722.6
49.00	722.2
64.00	721.6
81.00	721.3



Tested By TM Date 7/27/04 Checked By C-U Date 7/29/04



# ONE DIMENSIONAL CONSOLIDATION

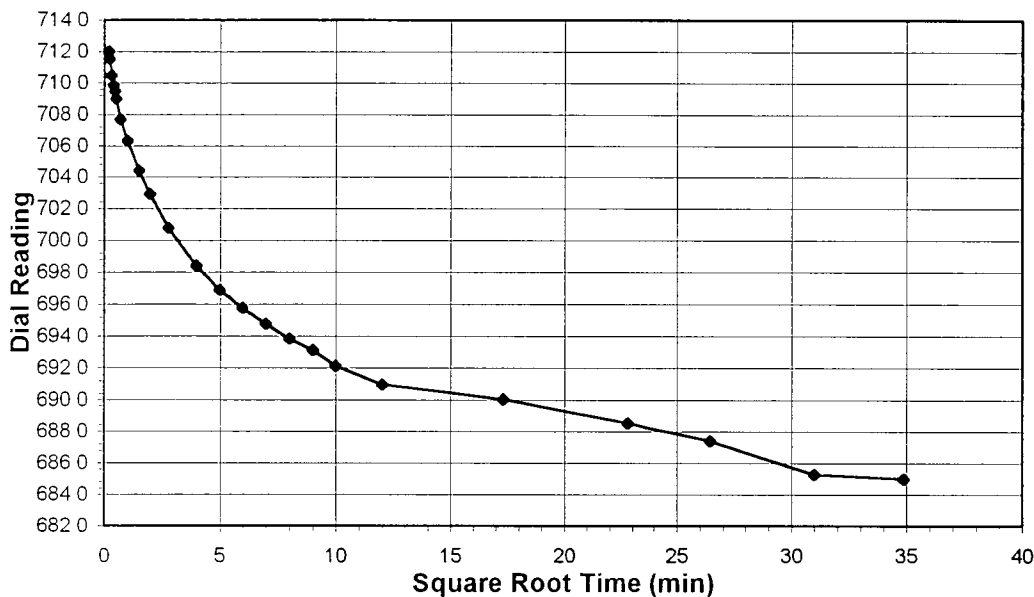
ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE  
 Client Project: GEHR TREATABILITY 204.302  
 Project No.: 2004-221-01  
 Lab ID: 2004-221-01-04

Boring No.:  
 Depth (ft):  
 Sample No.:  
 Visual Description:

NA  
 NA  
 SS02  
 GRAY STABILIZED MATERIAL WITH ROCK FRAGMENTS

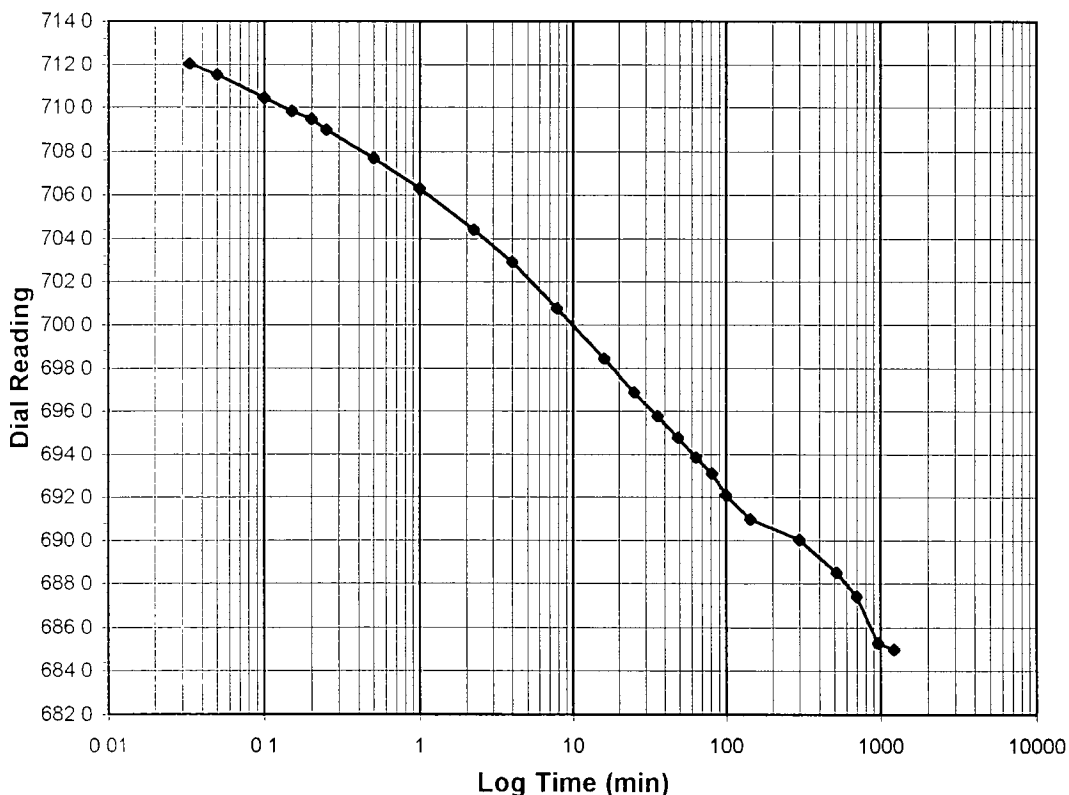
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf): 1.0-0.25  
 Final Reading (div): 685.0  
 Consolidometer No.: 3  
 1 Division (in): 0.0001

Start Date: 7/27/04  
 Start Time: 14:40:40

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>721.3</b>
0.03	712.0
0.05	711.5
0.10	710.5
0.15	709.8
0.20	709.5
0.25	709.0
0.50	707.7
1.00	706.3
2.25	704.4
4.00	702.9
7.86	700.8
16.00	698.4
25.00	696.9
36.00	695.8
49.00	694.8
64.00	693.8
81.00	693.1
100.00	692.1
144.00	691.0
300.00	690.0
520.00	688.5
700.00	687.4
960.00	685.3
1215.77	685.0



Tested By: TM Date: 7/27/04 Checked By: GU Date: 7/29/04



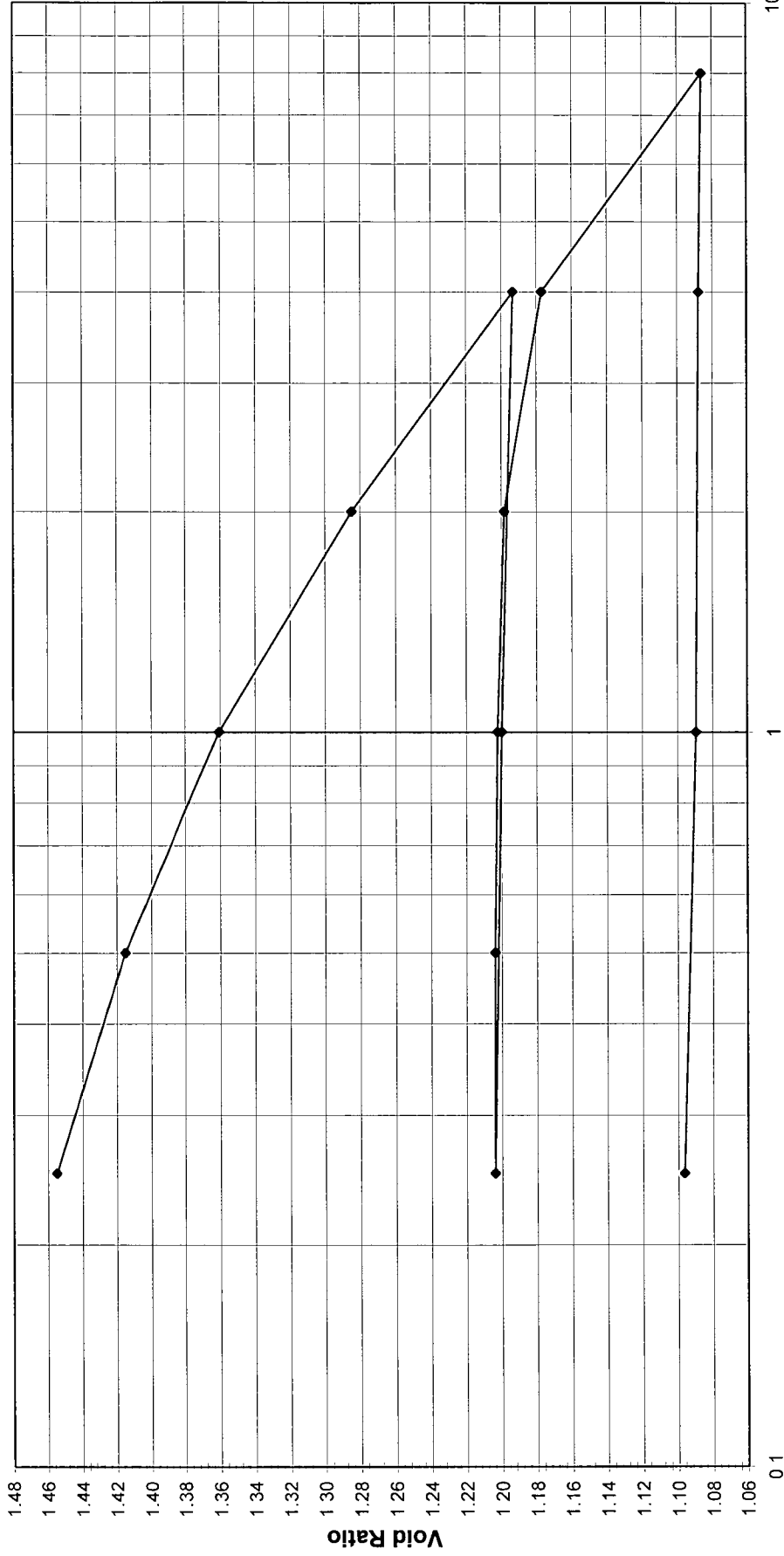


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 / AASHTO T216-03 (SOP-S24)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Reference	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-01	Sample No.	SS14
Lab ID	2004-221-01-05	Visual Description	BROWNISH GRAY STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Log P (tsf)

Tested By TM Date 7/30/04 Approved By DB Date 8/19/04



# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 / AASHTO T216-03 (SOP-S24)

Client	BLASLAND, BOUCK, & LEE	Boring No	NA
Client Reference	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-01	Sample No.	SS14
Lab ID	2004-221-01-05	Visual Description	BROWNISH GRAY STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED

**Consolidometer No.** 1

**1 Division** = 0.0001 (in)

## Sample Properties

<i>Water Content</i>			
Tare Number	444	40	
Wt. Tare & WS (gm)	212.66	189.07	
Wt. Tare & DS (gm)	172.60	165.37	
Wt. Water (gm)	40.06	23.70	
Wt. Tare (gm)	99.83	101.56	
Wt. DS (gm)	72.77	63.81	
Water Content (%)	55.05	37.14	

## Sample Parameters

Sample Diameter (in)	2.5	2.5	
Sample Height (in)	0.75	0.616	
Sample Volume (cc)	60.33	49.51	
Wt. Wet Sample + Ring (gm)	175.29	163.87	
Wt. of Ring (gm)	76.42	76.42	
Wt. of Wet Sample (gm)	98.87	87.45	
Wet Density (pcf)	102.26	110.21	
Wet Density (g/cc)	1.64	1.77	
Water Content (%)	55.05	37.14	
Wt. of Dry Sample (gm)	63.77	63.77	
Dry Density (pcf)	65.95	80.36	
Dry Density (g/cc)	1.06	1.29	
Void Ratio	1.5545	1.0965	
Saturation (%)	95.62	91.46	
Specific Gravity	2.70	Assumed	

## Test Data Summary

Applied Pressure (tsf)	Final Dial Reading (div)	Machine Deflection (div)	Corrected Reading (div)	Height of Sample (mm)	Volume (cc)	Dry Density (g/cc)	Void Ratio
Seating	0	0	0	19.050	60.330	1.05696	1.55449
0.25	301.5	8.9	292.6	18.307	57.976	1.09988	1.45481
0.5	424.6	15.8	408.8	18.012	57.042	1.11789	1.41526
1	596.1	26.9	569.2	17.604	55.751	1.14377	1.36061
2	831.1	39.4	791.7	17.039	53.962	1.18170	1.28484
4	1115.2	54.3	1060.9	16.355	51.796	1.23110	1.19315
1	1076.3	34.8	1041.5	16.405	51.952	1.22740	1.19976
0.25	1047.0	17.9	1029.1	16.436	52.052	1.22506	1.20397
0.5	1050.7	20.8	1029.9	16.434	52.046	1.22520	1.20372
1	1063.7	29.5	1034.2	16.423	52.011	1.22603	1.20224
2	1088.1	41.8	1046.3	16.392	51.914	1.22832	1.19813
4	1162.8	54.4	1108.5	16.235	51.414	1.24027	1.17695
8	1445.6	69.8	1375.8	15.555	49.263	1.29441	1.08589
4	1433.6	63.0	1370.6	15.569	49.305	1.29331	1.08766
1	1405.6	40.1	1365.5	15.582	49.346	1.29224	1.08940
0.25	1368.3	23.5	1344.8	15.634	49.513	1.28788	1.09646

Tested By TM Date 7/30/04 Input Checked By C.S. Date 8/7/04

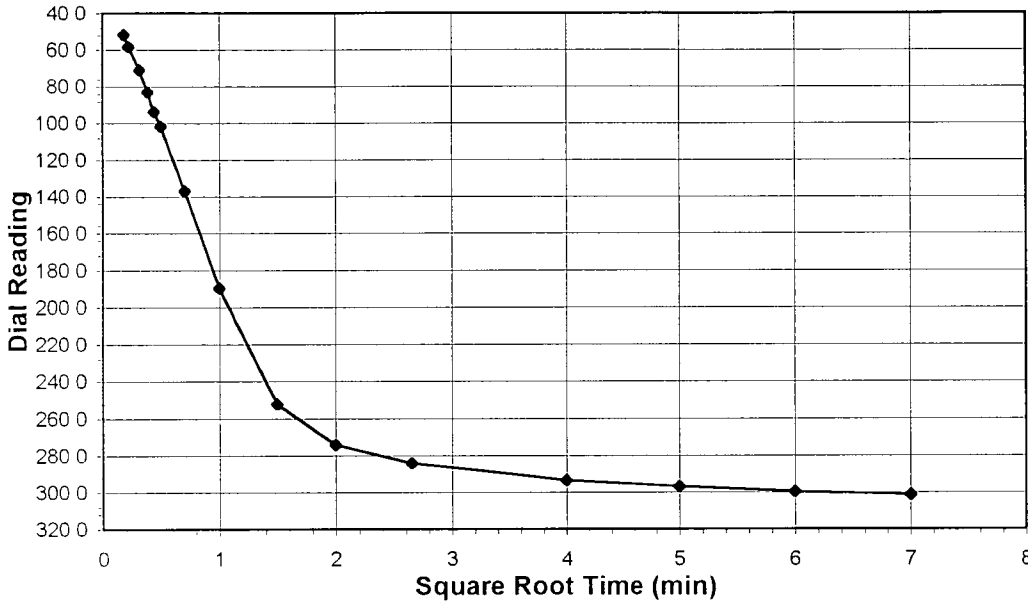


**ONE DIMENSIONAL CONSOLIDATION**  
ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE  
 Client Project: GEHR TREATABILITY 204.302  
 Project No: 2004-221-01  
 Lab ID: 2004-221-01-05

Boring No.: NA  
 Depth (ft): NA  
 Sample No.: SS14  
 Visual Description: BROWNISH GRAY STABILIZED MATERIAL

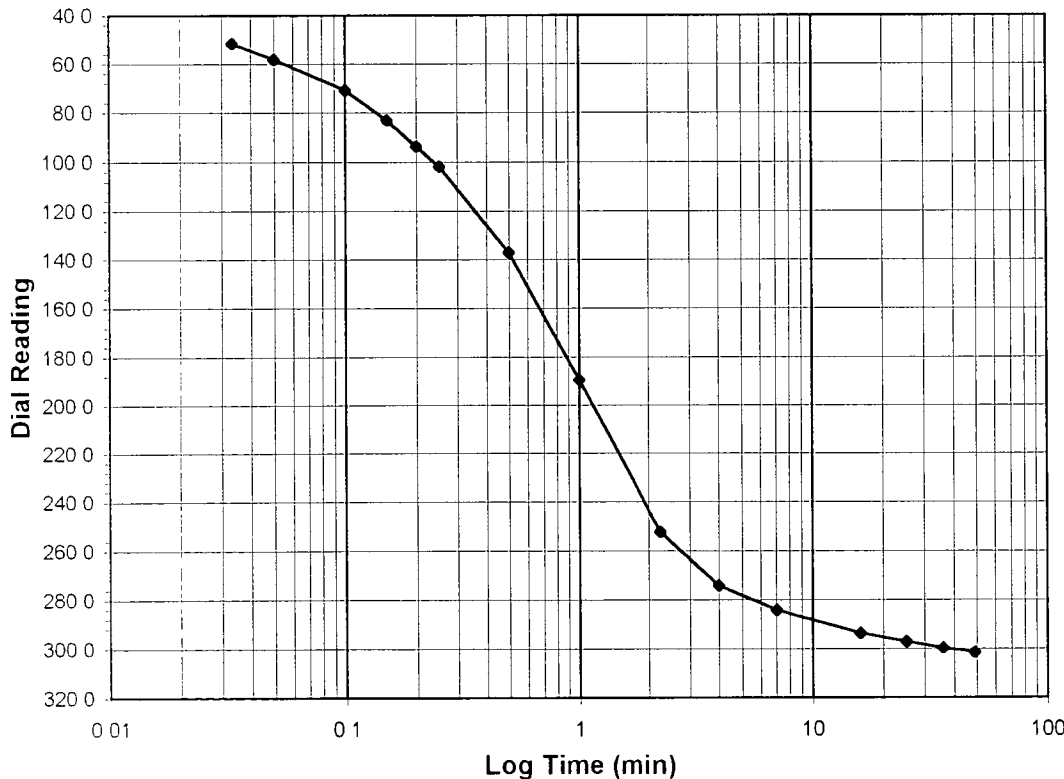
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf): 0-0.25  
 Final Reading (div): 301.5  
 Consolidometer No.: 1  
 1 Division (in): 0.0001

Start Date: 7/30/04  
 Start Time: 11:02:00

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>0.0</b>
0.03	51.7
0.05	58.2
0.10	70.9
0.15	83.0
0.20	93.6
0.25	101.7
0.50	137.0
1.00	189.6
2.25	252.3
4.00	274.3
7.03	284.3
16.00	293.6
25.00	297.0
36.00	299.6
49.02	301.5



Tested By: TM Date: 7/30/04 Checked By: GU Date: 8/9/04



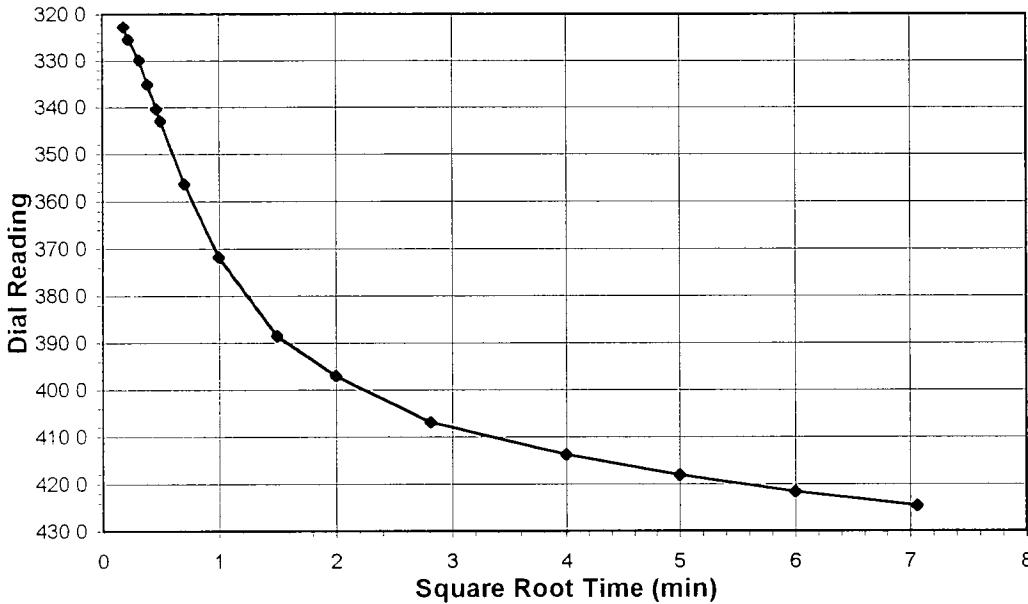
# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE  
 Client Project: GEHR TREATABILITY 204.302  
 Project No.: 2004-221-01  
 Lab ID: 2004-221-01-05

Boring No.: NA  
 Depth (ft): NA  
 Sample No.: SS14  
 Visual Description: BROWNISH GRAY STABILIZED MATERIAL

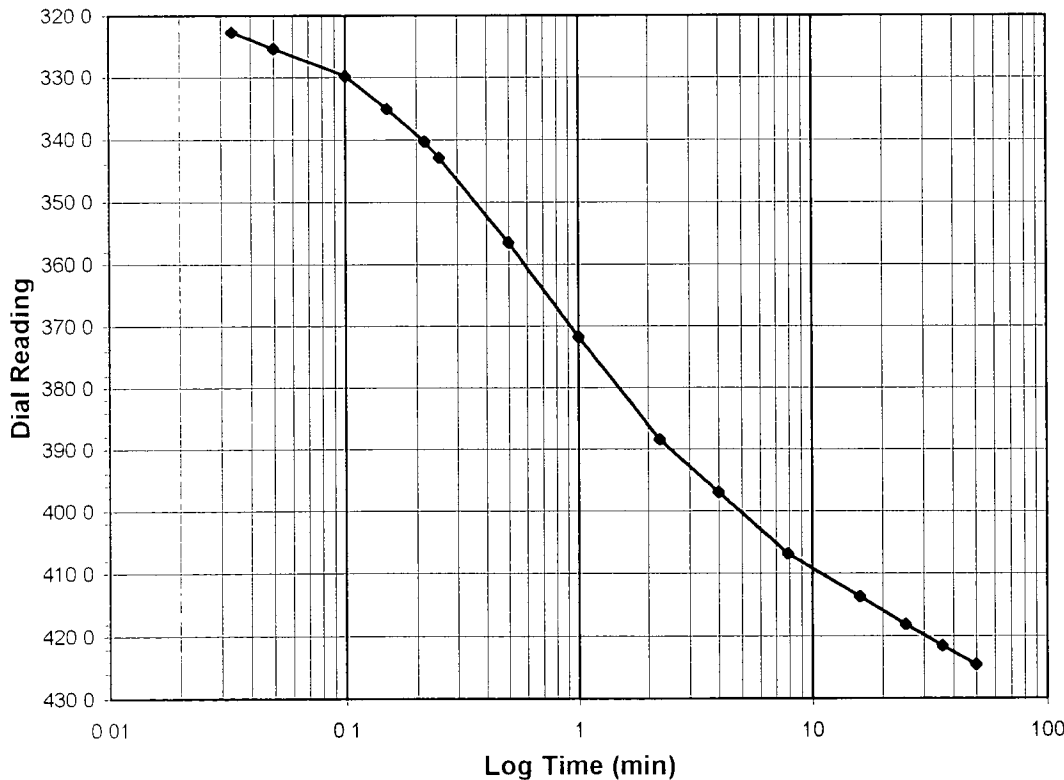
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf): 0.25-0.5  
 Final Reading (div): 424.6  
 Consolidometer No.: 1  
 1 Division (in): 0.0001

Start Date: 7/30/04  
 Start Time: 11:52:15

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>301.5</b>
0.03	322.7
0.05	325.4
0.10	329.8
0.15	335.2
0.22	340.4
0.25	342.9
0.50	356.4
1.00	371.8
2.25	388.5
4.00	397.1
7.89	406.9
16.00	413.7
25.02	418.2
36.00	421.6
49.80	424.6



Tested By: TM Date: 7/30/04 Checked By: GU Date: 8/9/04



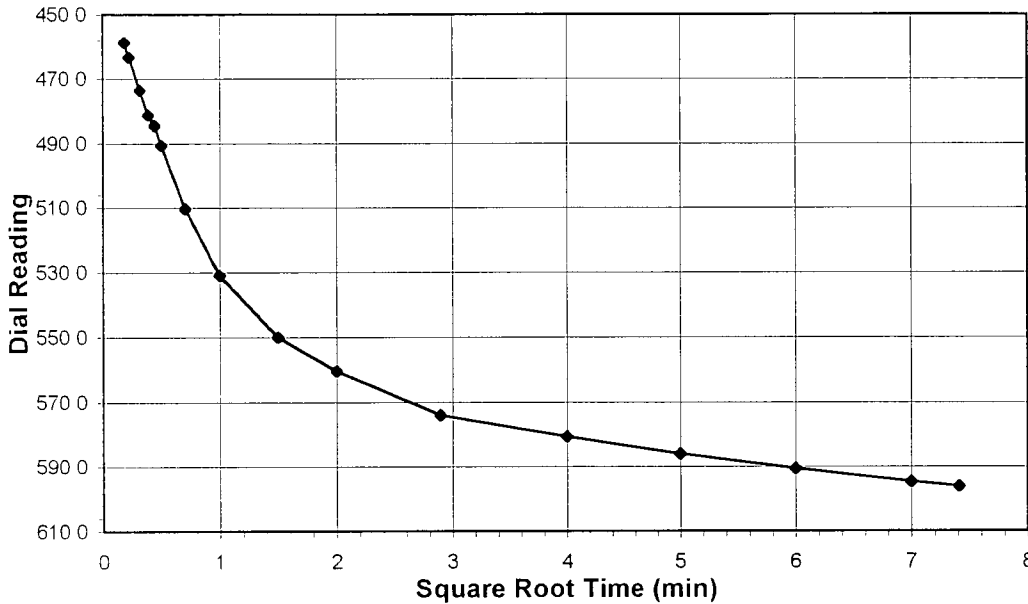
# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE  
 Client Project: GEHR TREATABILITY 204.302  
 Project No: 2004-221-01  
 Lab ID: 2004-221-01-05

Boring No.: NA  
 Depth (ft): NA  
 Sample No.: SS14  
 Visual Description: BROWNISH GRAY STABILIZED MATERIAL

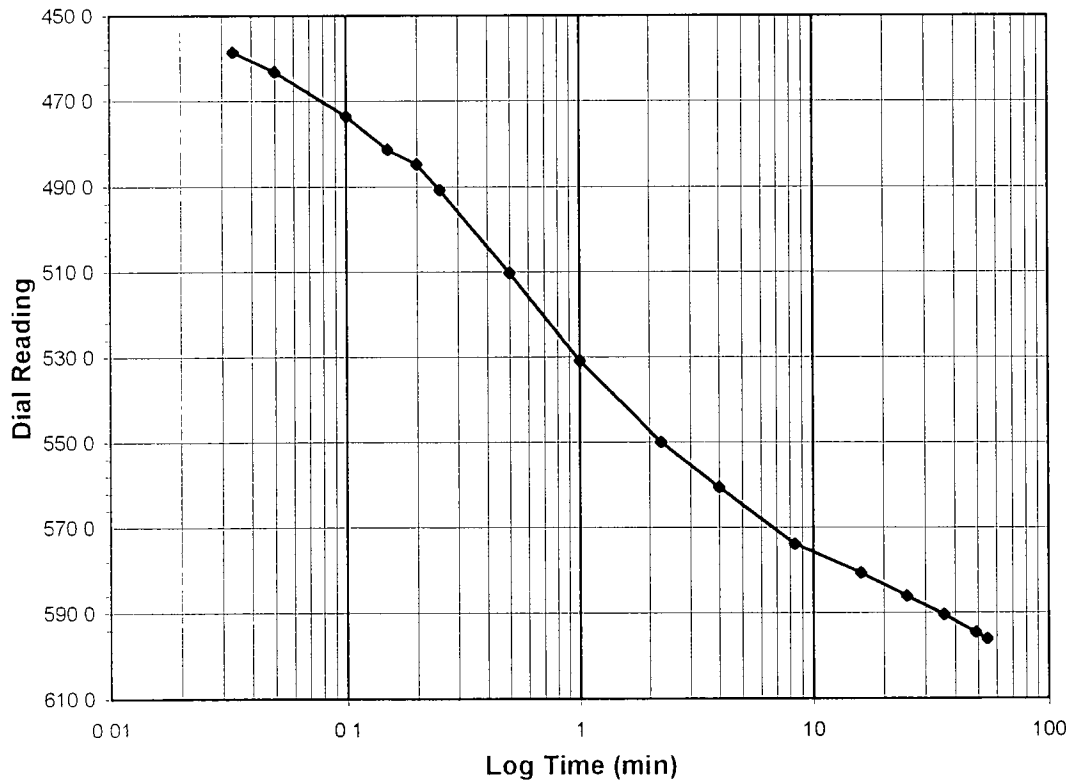
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf): 0.5-1.0  
 Final Reading (div): 596.1  
 Consolidometer No.: 1  
 1 Division (in): 0.0001

Start Date: 7/30/04  
 Start Time: 12:43:57

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>424.6</b>
0.03	458.6
0.05	463.3
0.10	473.5
0.15	481.3
0.20	484.7
0.25	490.7
0.50	510.3
1.00	531.0
2.25	550.0
4.00	560.5
8.38	574.0
16.00	580.7
25.00	586.1
36.00	590.5
49.00	594.6
54.88	596.1



Tested By: TM Date: 7/30/04 Checked By: GJ Date: 8/9/04



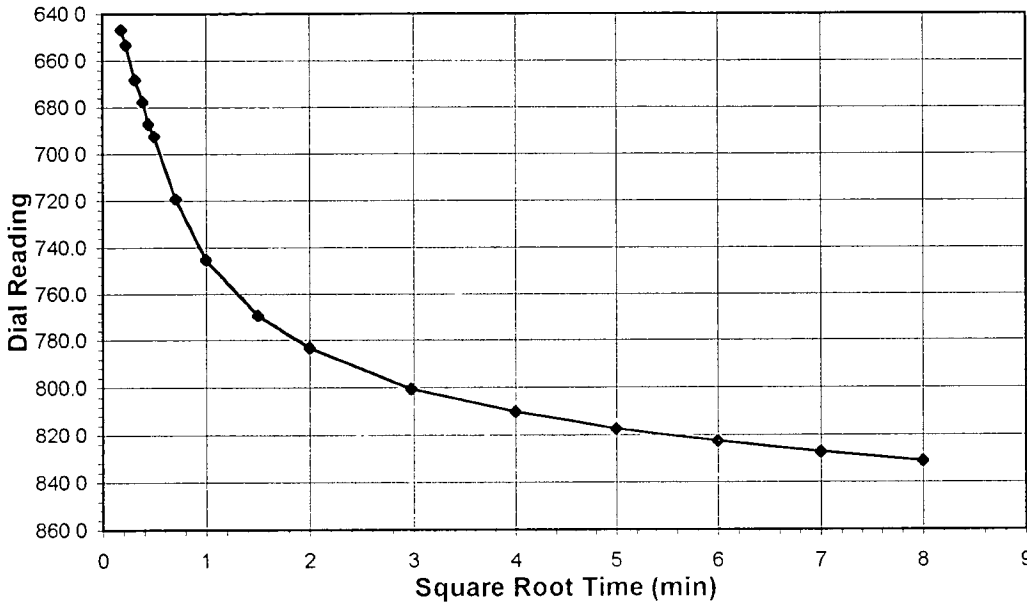
# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE  
 Client Project: GEHR TREATABILITY 204.302  
 Project No.: 2004-221-01  
 Lab ID: 2004-221-01-05

Boring No.: NA  
 Depth (ft): NA  
 Sample No.: SS14  
 Visual Description: BROWNISH GRAY STABILIZED MATERIAL

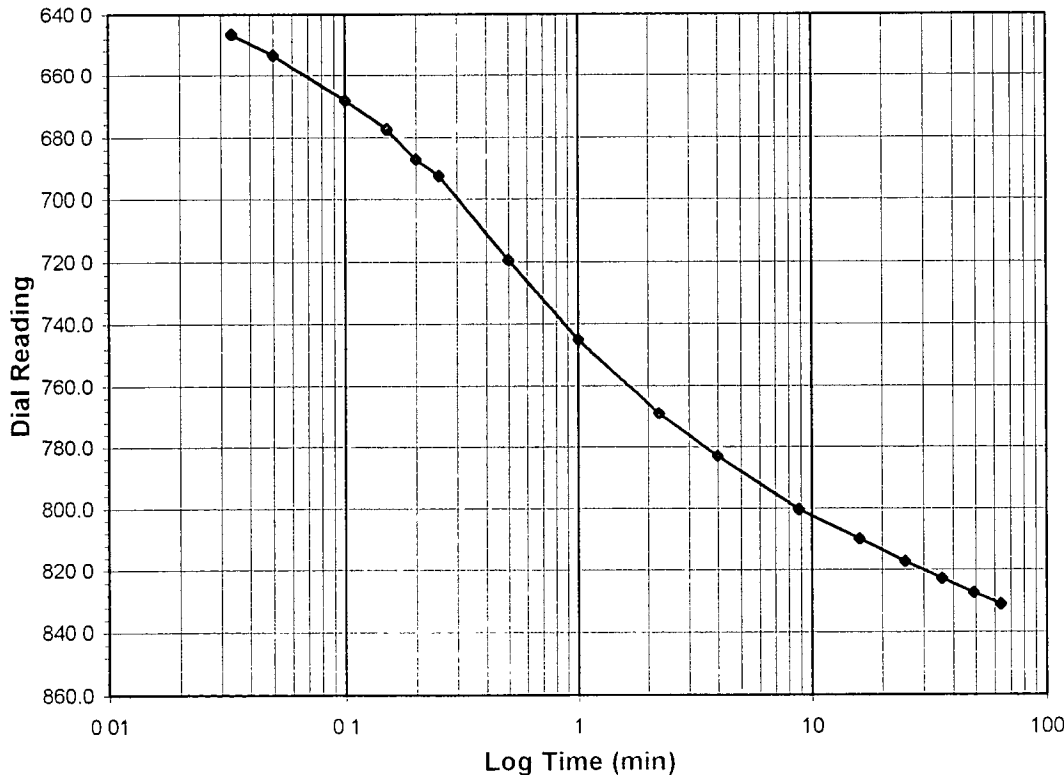
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf): 1.0-2.0  
 Final Reading (div): 831.1  
 Consolidometer No.: 1  
 1 Division (in): 0.0001

Start Date: 7/30/04  
 Start Time: 13:40:37

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>596.1</b>
0.03	646.7
0.05	653.4
0.10	668.2
0.15	677.6
0.20	687.0
0.25	692.5
0.50	719.2
1.00	745.2
2.25	769.2
4.00	783.1
8.83	800.5
16.00	810.1
25.00	817.3
36.00	822.8
49.00	827.4
64.00	831.1



Tested By: TM Date: 7/30/04 Checked By: GU Date: 8/9/04



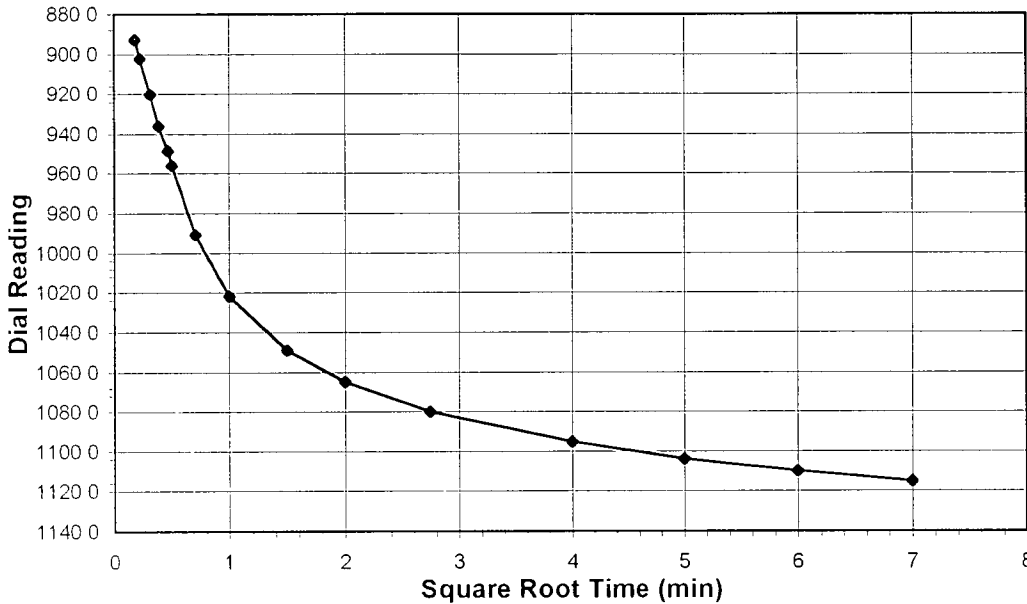
# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE  
 Client Project: GEHR TREATABILITY 204.302  
 Project No: 2004-221-01  
 Lab ID: 2004-221-01-05

Boring No.: NA  
 Depth (ft): NA  
 Sample No.: SS14  
 Visual Description: BROWNISH GRAY STABILIZED MATERIAL

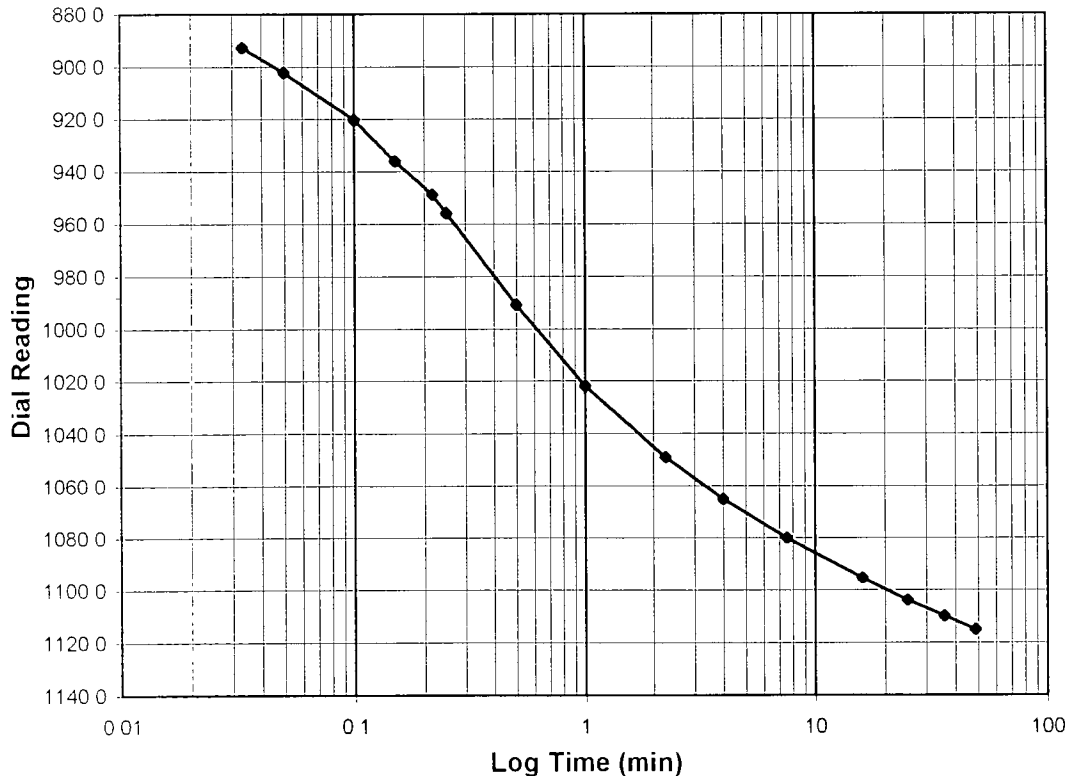
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf): 2.0-4.0  
 Final Reading (div): 1115.2  
 Consolidometer No.: 1  
 1 Division (in): 0.0001

Start Date: 7/30/04  
 Start Time: 14 52 43

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>831.1</b>
0.03	892.8
0.05	902.3
0.10	920.2
0.15	936.1
0.22	948.8
0.25	956.0
0.50	990.9
1.00	1021.9
2.25	1049.1
4.00	1065.0
7.53	1079.9
16.00	1095.4
25.00	1103.8
36.00	1110.0
49.00	1115.2



Tested By: TM Date: 7/30/04 Checked By: GU Date: 8/9/04



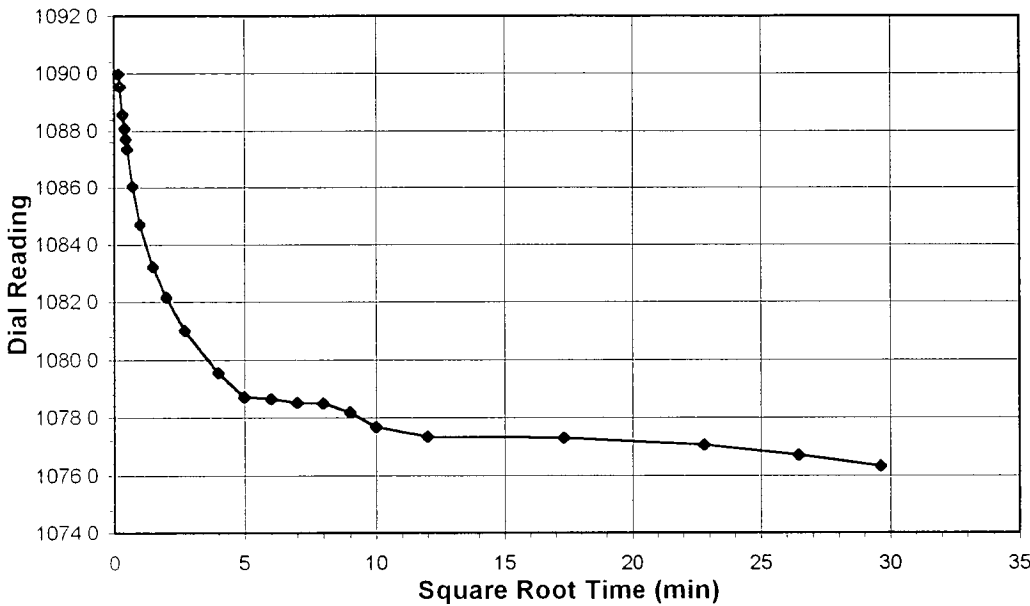
# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE  
 Client Project: GEHR TREATABILITY 204.302  
 Project No.: 2004-221-01  
 Lab ID: 2004-221-01-05

Boring No.: NA  
 Depth (ft): NA  
 Sample No.: SS14  
 Visual Description: BROWNISH GRAY STABILIZED MATERIAL

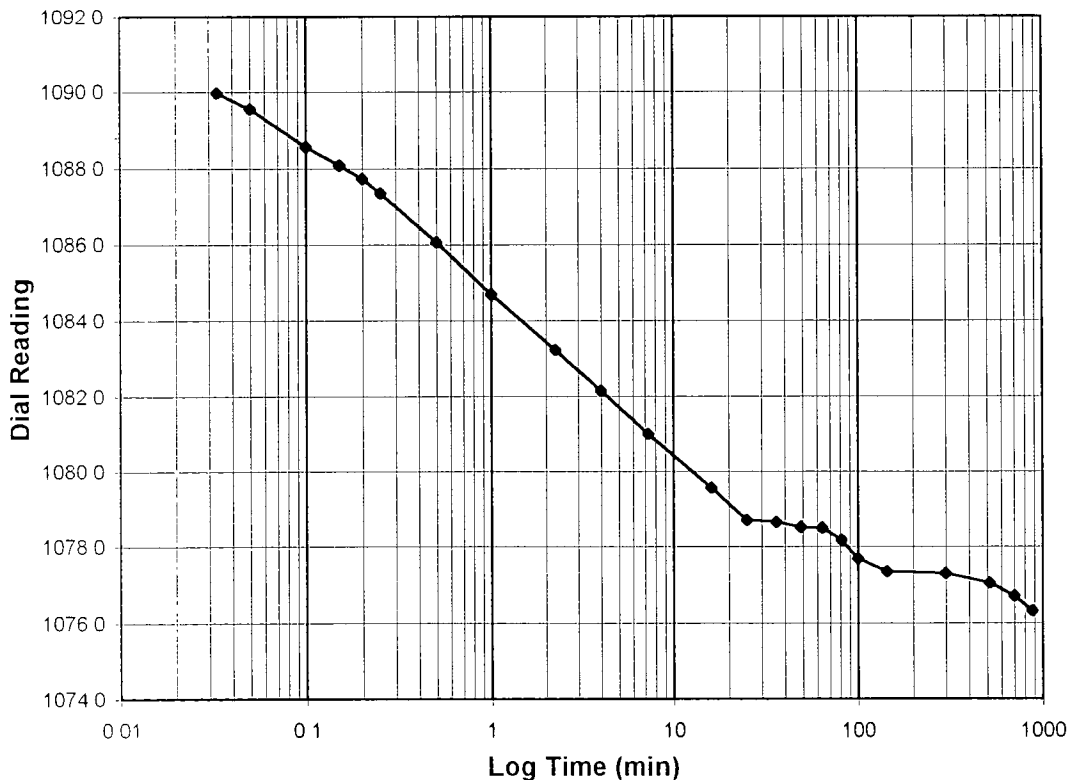
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf): 4.0-1.0  
 Final Reading (div): 1076.3  
 Consolidometer No.: 1  
 1 Division (in): 0.0001

Start Date: 7/30/04  
 Start Time: 15:46:49

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>1115.2</b>
0.03	1090.0
0.05	1089.6
0.10	1088.6
0.15	1088.1
0.20	1087.7
0.25	1087.4
0.50	1086.1
1.00	1084.7
2.25	1083.2
4.00	1082.2
7.32	1081.0
16.00	1079.6
25.00	1078.7
36.00	1078.6
49.00	1078.5
64.00	1078.5
81.00	1078.2
100.00	1077.7
144.02	1077.3
300.00	1077.3
520.00	1077.1
700.00	1076.7
878.60	1076.3



Tested By: TM Date: 7/30/04 Checked By: GU Date: 8/9/04





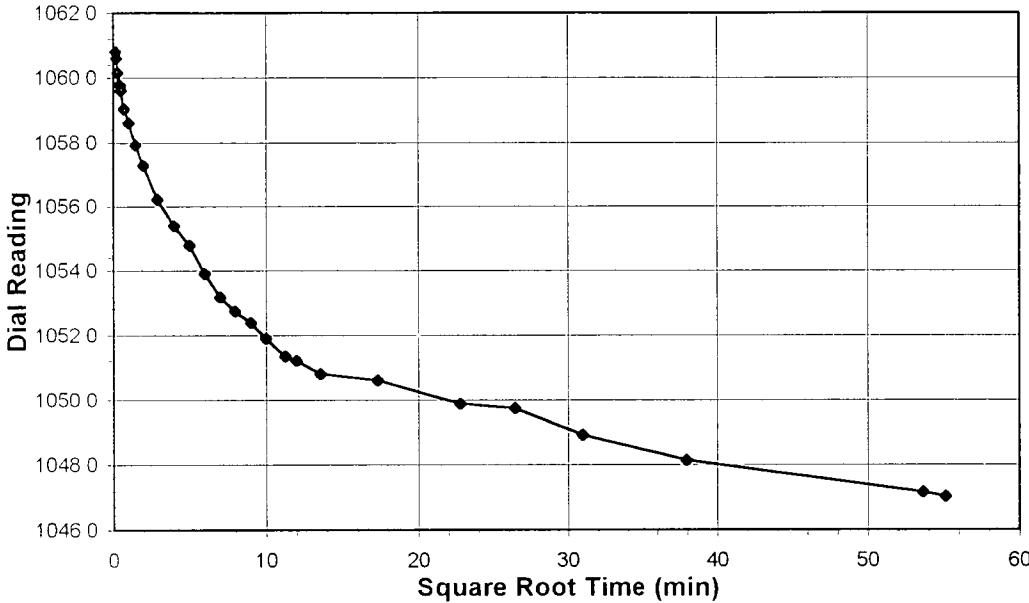
# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE  
 Client Project: GEHR TREATABILITY 204.302  
 Project No.: 2004-221-01  
 Lab ID: 2004-221-01-05

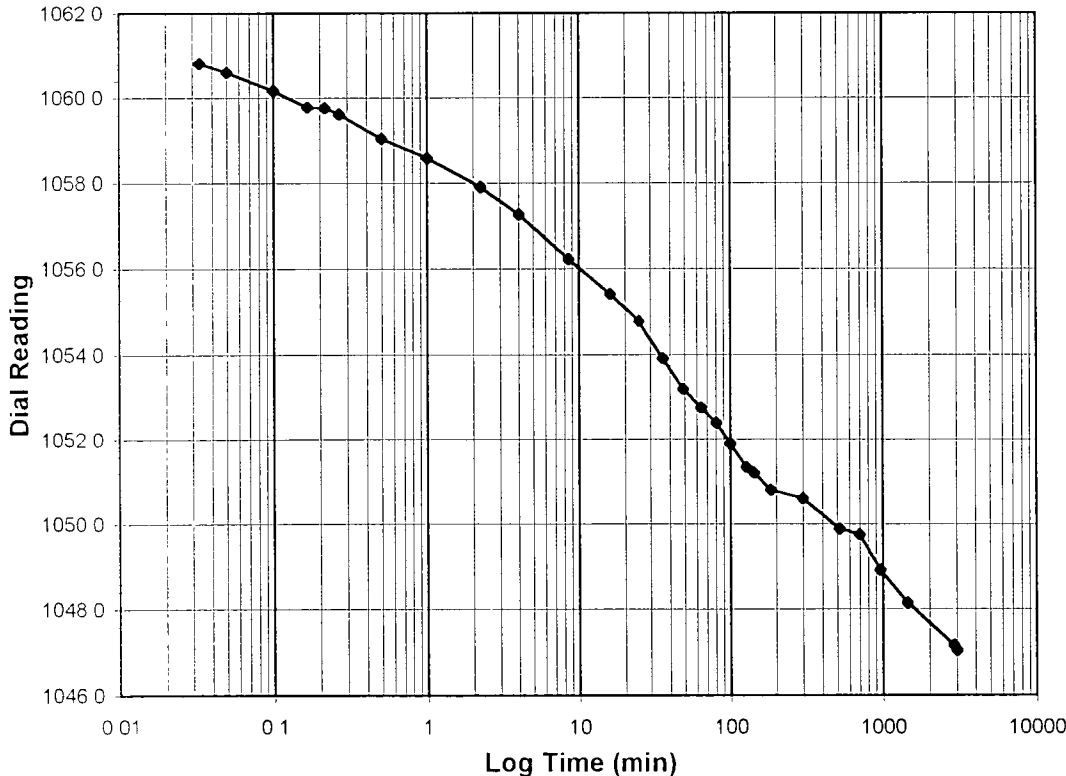
Boring No.: NA  
 Depth (ft): NA  
 Sample No.: SS14  
 Visual Description: BROWNISH GRAY STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf): 1.0-0.25  
 Final Reading (div): 1047.0  
 Consolidometer No.: 1  
 1 Division (in): 0.0001  
 Start Date: 7/31/04  
 Start Time: 6:38:36

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>1076.3</b>
0.03	1060.8
0.05	1060.6
0.10	1060.2
0.17	1059.8
0.22	1059.8
0.27	1059.6
0.50	1059.0
1.00	1058.6
2.25	1057.9
4.02	1057.3
8.57	1056.2
16.00	1055.4
25.00	1054.8
36.00	1053.9
49.00	1053.2
64.00	1052.8
81.00	1052.4
100.00	1051.9
127.48	1051.3
144.00	1051.2
184.80	1050.8
300.00	1050.6
520.00	1049.9
700.00	1049.7
960.00	1048.9
1440.00	1048.2
2880.00	1047.2
3041.33	1047.0



Tested By: TM Date: 7/31/04 Checked By: GU Date: 8/9/04



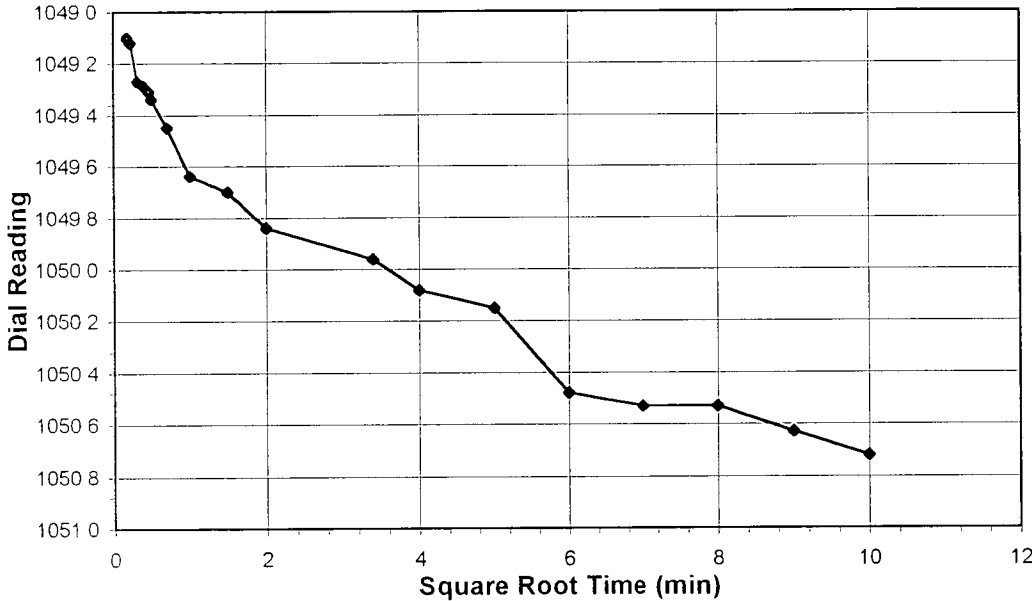
# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE  
 Client Project: GEHR TREATABILITY 204.302  
 Project No: 2004-221-01  
 Lab ID: 2004-221-01-05

Boring No.: NA  
 Depth (ft): NA  
 Sample No.: SS14  
 Visual Description: BROWNISH GRAY STABILIZED MATERIAL

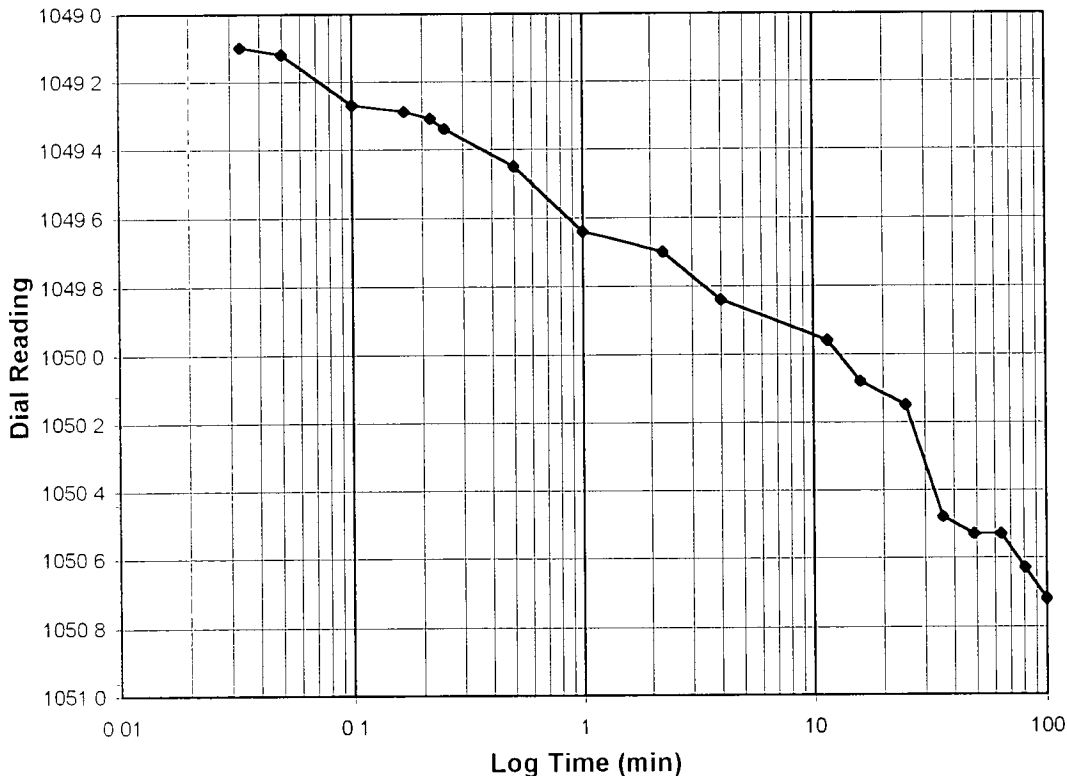
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf): 0.25-0.5  
 Final Reading (div): 1050.7  
 Consolidometer No.: 1  
 1 Division (in): 0.0001

Start Date: 8/2/04  
 Start Time: 9:31:31

Elapsed Time (min)	Dial Reading (div)
Initial	1047.0
0.03	1049.1
0.05	1049.1
0.10	1049.3
0.17	1049.3
0.22	1049.3
0.25	1049.3
0.50	1049.5
1.00	1049.6
2.25	1049.7
4.00	1049.8
11.52	1050.0
16.00	1050.1
25.00	1050.2
36.00	1050.5
49.00	1050.5
64.00	1050.5
81.00	1050.6
100.00	1050.7



Tested By: TM Date: 8/2/04 Checked By: GU Date: 8/9/04



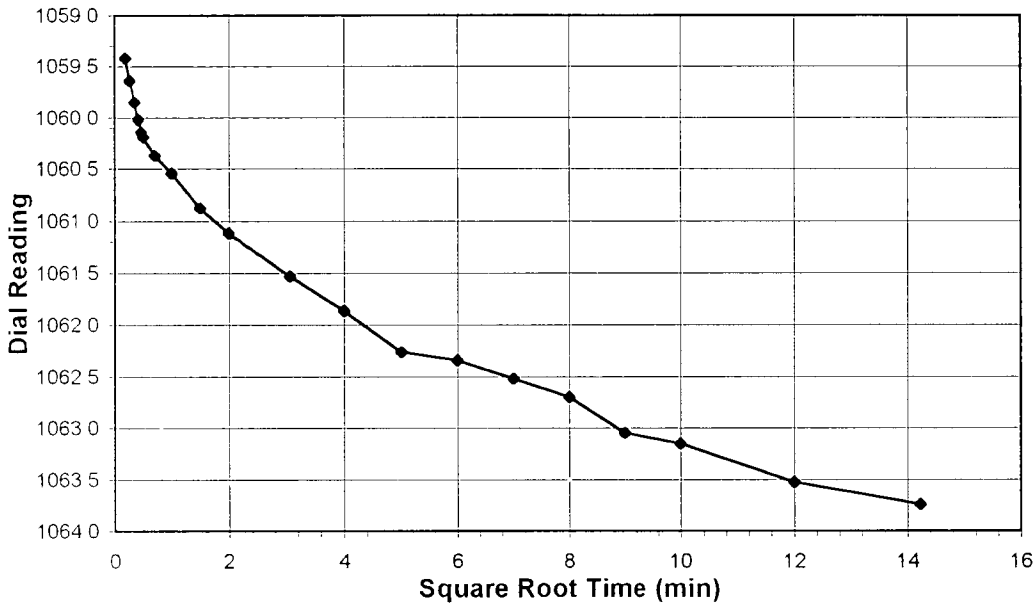
# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE  
 Client Project: GEHR TREATABILITY 204.302  
 Project No.: 2004-221-01  
 Lab ID: 2004-221-01-05

Boring No.: NA  
 Depth (ft): NA  
 Sample No.: SS14  
 Visual Description: BROWNISH GRAY STABILIZED MATERIAL

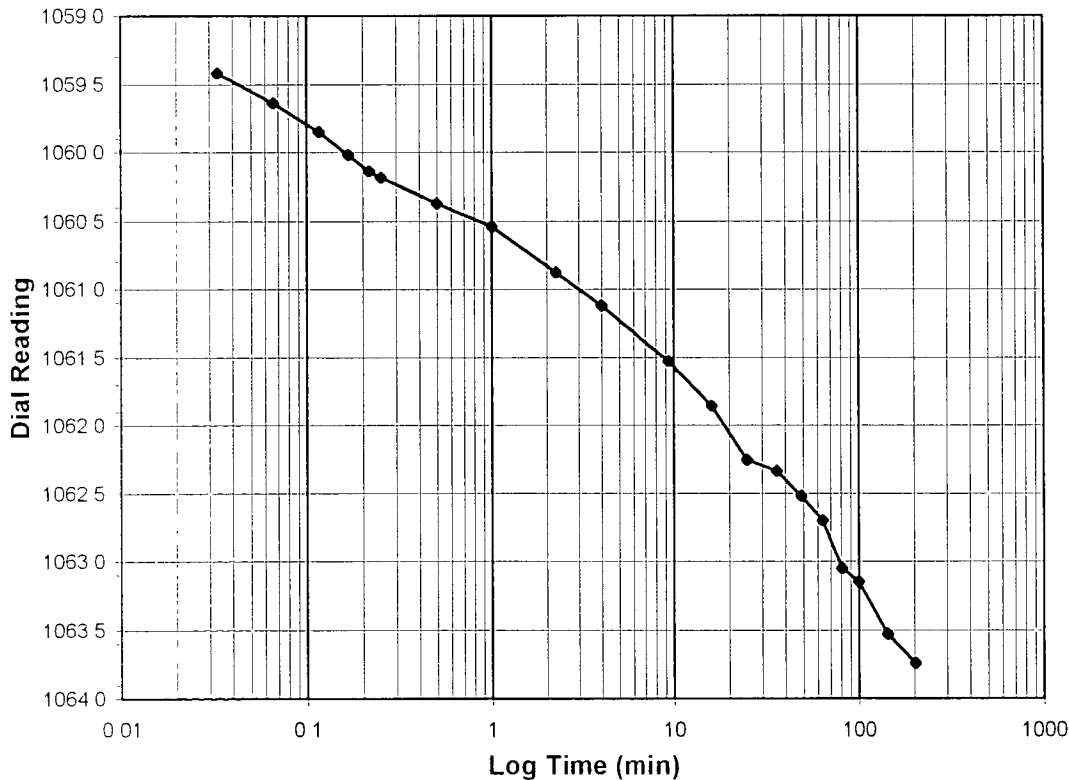
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf): 0.5-1.0  
 Final Reading (div): 1063.7  
 Consolidometer No.: 1  
 1 Division (in): 0.0001

Start Date: 8/2/04  
 Start Time: 11:38:41

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>1050.7</b>
0.03	1059.4
0.07	1059.6
0.12	1059.9
0.17	1060.0
0.22	1060.1
0.25	1060.2
0.50	1060.4
1.00	1060.5
2.25	1060.9
4.00	1061.1
9.37	1061.5
16.00	1061.9
25.00	1062.3
36.00	1062.3
49.00	1062.5
64.00	1062.7
81.00	1063.1
100.00	1063.2
144.00	1063.5
202.40	1063.7



Tested By: TM Date: 8/2/04 Checked By: GSU Date: 8/9/04



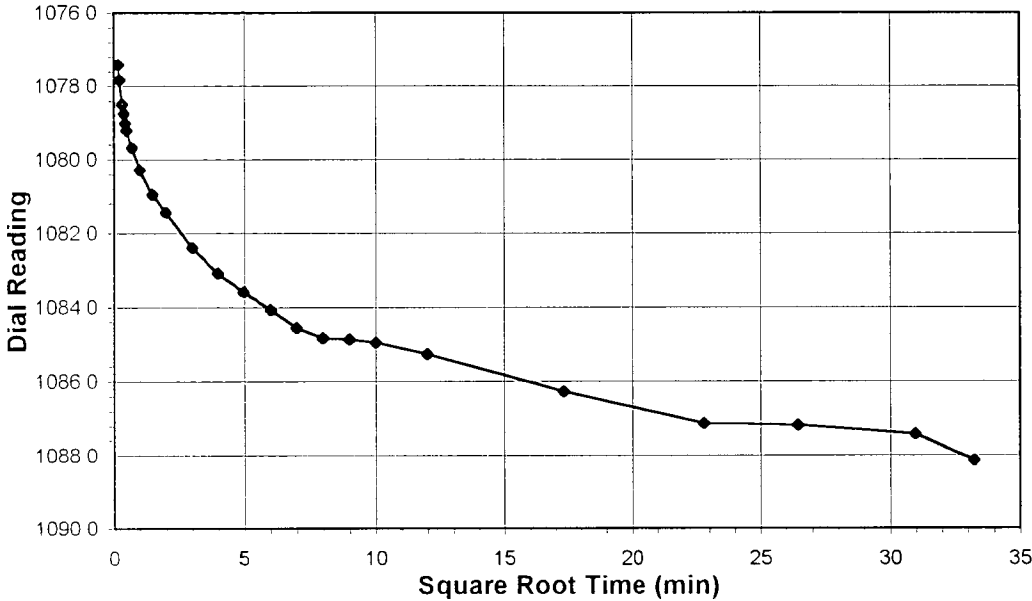
# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE  
 Client Project: GEHR TREATABILITY 204.302  
 Project No.: 2004-221-01  
 Lab ID: 2004-221-01-05

Boring No.: NA  
 Depth (ft): NA  
 Sample No.: SS14  
 Visual Description: BROWNISH GRAY STABILIZED MATERIAL

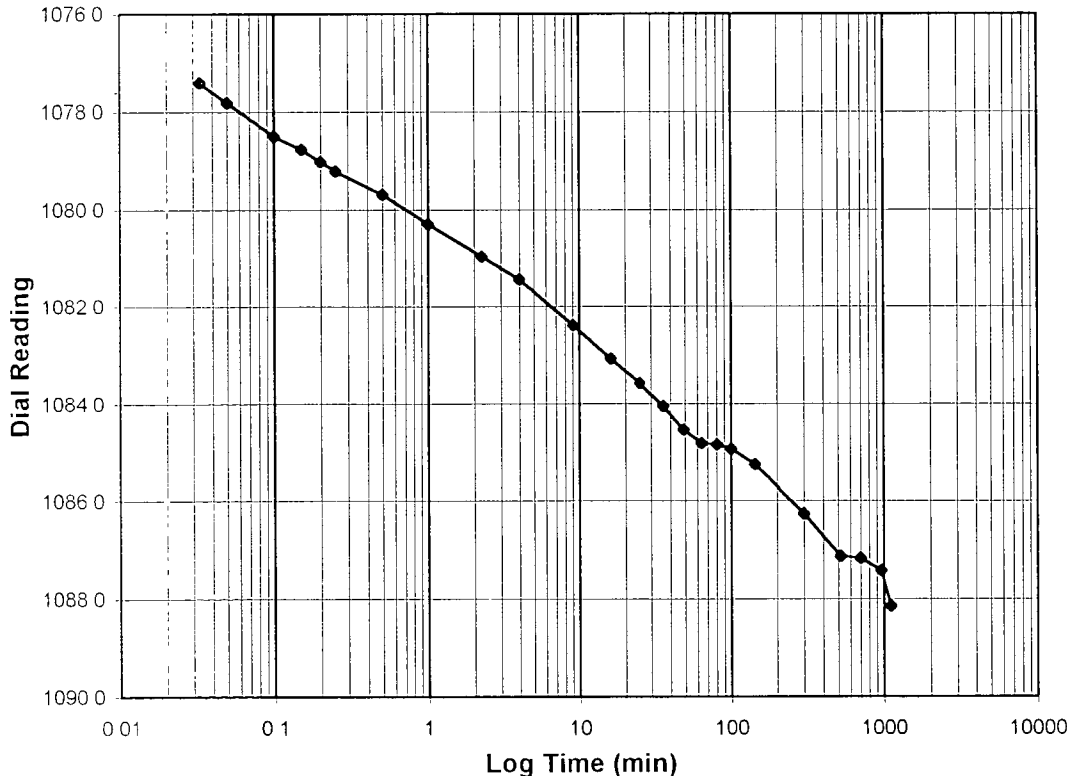
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf): 1.0-2.0  
 Final Reading (div): 1088.1  
 Consolidometer No.: 1  
 1 Division (in): 0.0001

Start Date: 8/2/04  
 Start Time: 15:06 29

Elapsed Time (min)	Dial Reading (div)
Initial	1063.7
0.03	1077.4
0.05	1077.8
0.10	1078.5
0.15	1078.8
0.20	1079.0
0.25	1079.2
0.50	1079.7
1.00	1080.3
2.25	1081.0
4.00	1081.4
9.11	1082.4
16.00	1083.1
25.00	1083.6
36.00	1084.1
49.00	1084.5
64.00	1084.8
81.00	1084.9
100.00	1084.9
144.00	1085.3
300.00	1086.3
520.00	1087.1
700.00	1087.2
960.00	1087.4
1105.25	1088.1



Tested By: TM Date: 8/2/04 Checked By: GU Date: 8/9/04



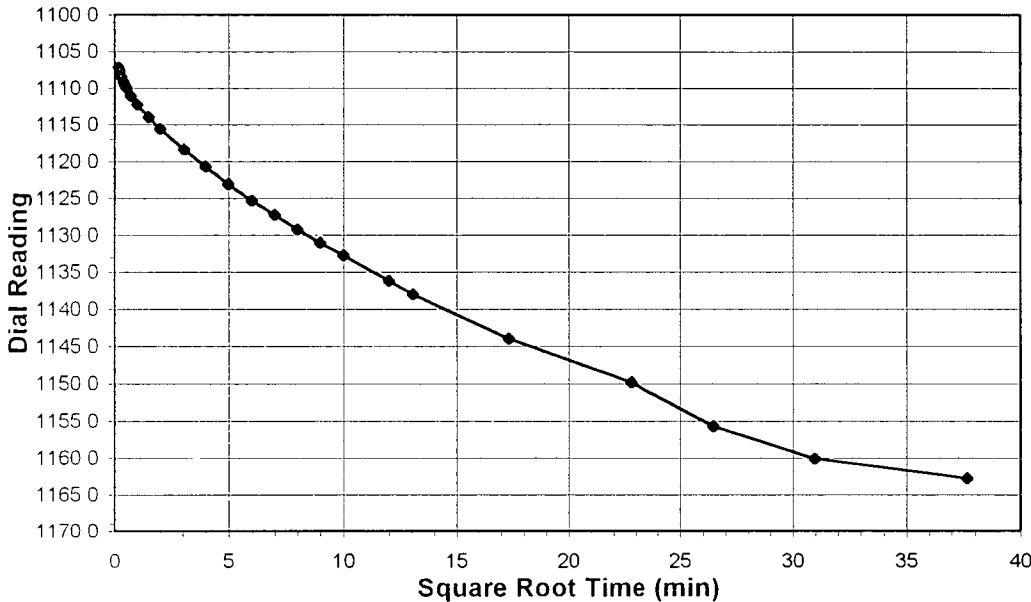
# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE  
 Client Project: GEHR TREATABILITY 204.302  
 Project No.: 2004-221-01  
 Lab ID: 2004-221-01-05

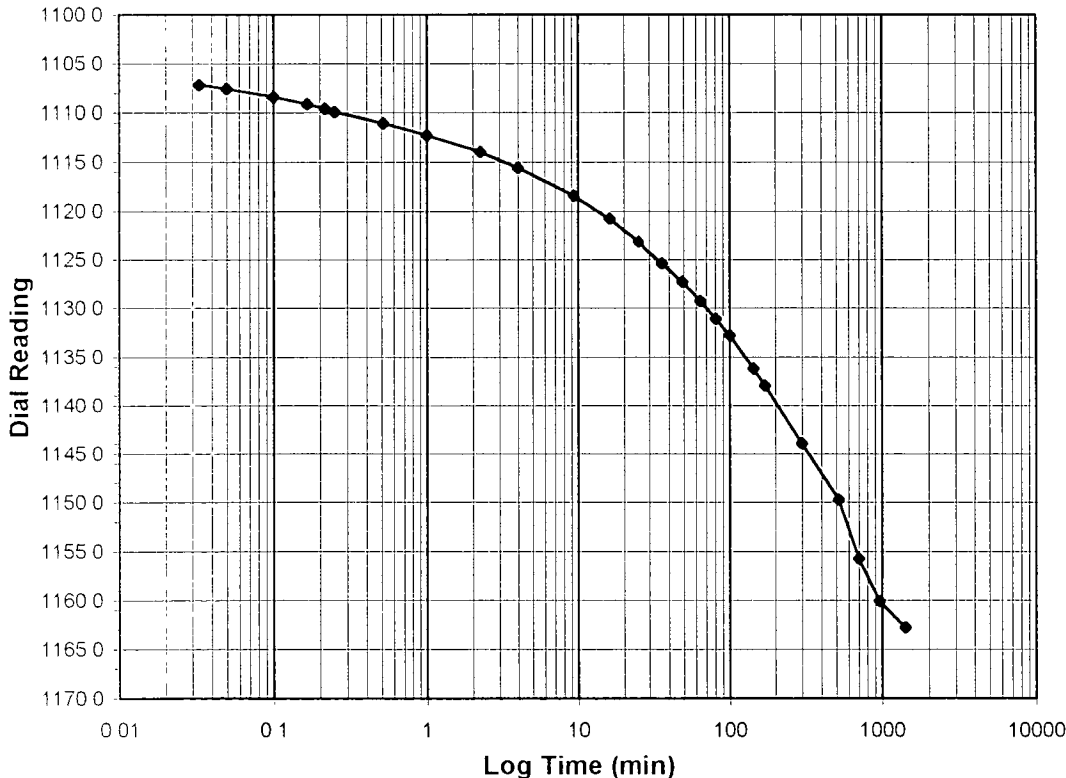
Boring No.: NA  
 Depth (ft): NA  
 Sample No.: SS14  
 Visual Description: BROWNISH GRAY STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 2.0-4.0  
 Final Reading (div) 1162.8  
 Consolidometer No. 1  
 1 Division (in) 0.0001  
 Start Date 8/3/04  
 Start Time 9:38:36

Elapsed Time (min)	Dial Reading (div)
Initial	1088.1
0.03	1107.2
0.05	1107.5
0.10	1108.4
0.17	1109.1
0.22	1109.6
0.25	1109.9
0.52	1111.0
1.00	1112.2
2.25	1114.0
4.00	1115.6
9.37	1118.4
16.00	1120.8
25.00	1123.1
36.00	1125.4
49.00	1127.3
64.02	1129.3
81.00	1131.1
100.00	1132.8
144.00	1136.2
170.15	1138.0
300.00	1144.0
520.00	1149.8
700.00	1155.7
960.00	1160.1
1418.27	1162.8



Tested By TM Date 8/3/04 Checked By GU Date 8/9/04

# ONE DIMENSIONAL CONSOLIDATION

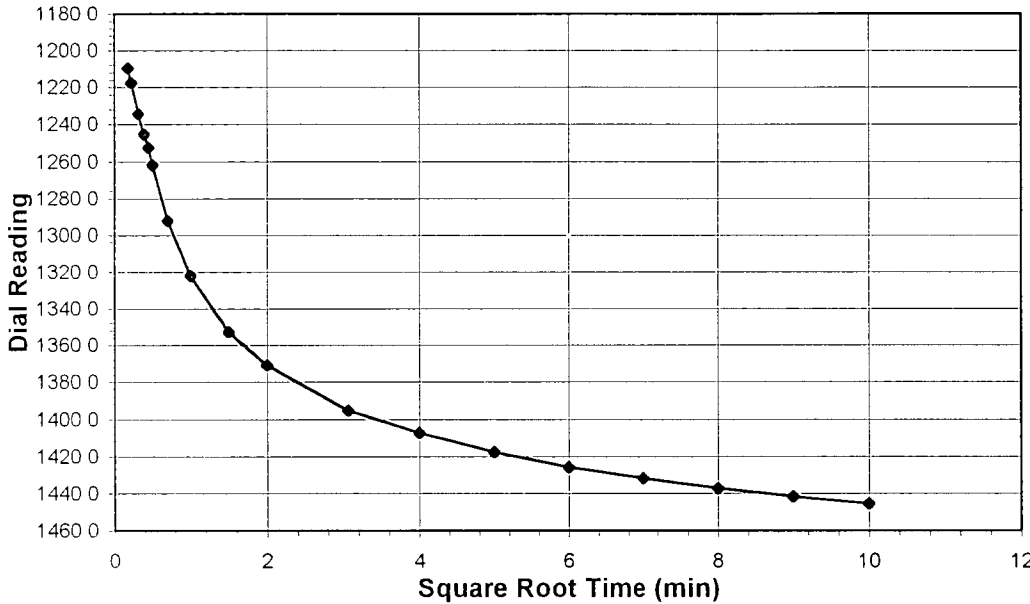
ASTM D 2435-96 (SOP-S24A)



Client: BLASLAND, BOUCK, & LEE  
 Client Project: GEHR TREATABILITY 204.302  
 Project No.: 2004-221-01  
 Lab ID: 2004-221-01-05

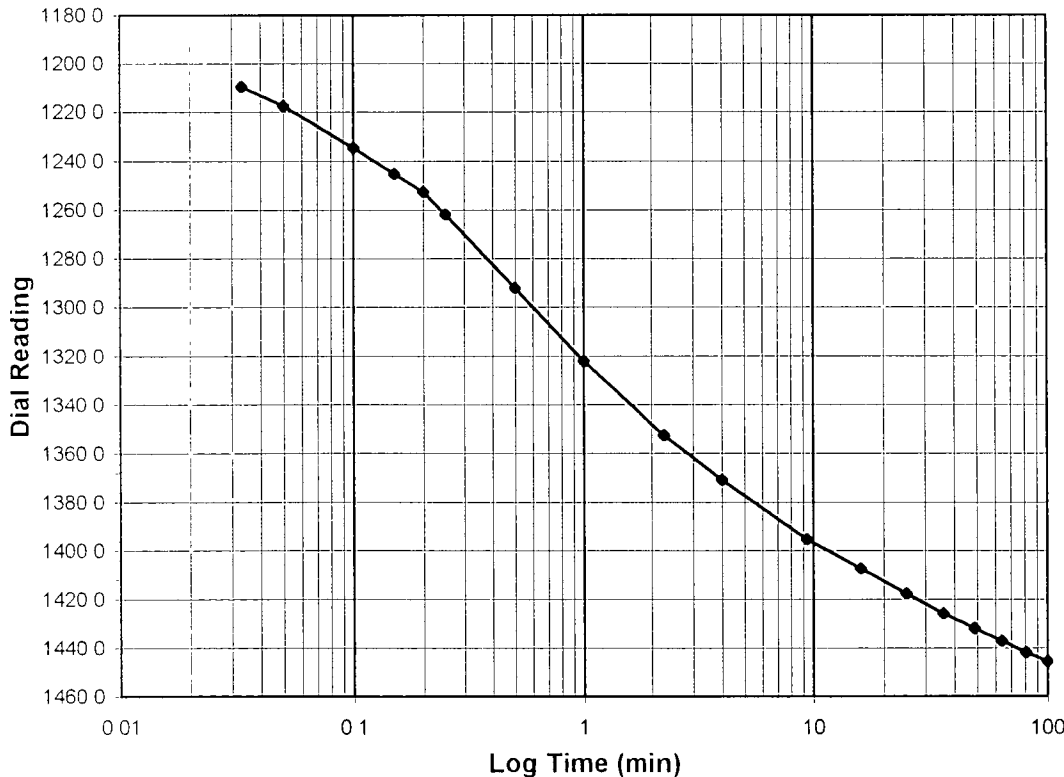
Boring No.: NA  
 Depth (ft): NA  
 Sample No.: SS14  
 Visual Description: BROWNISH GRAY STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf): 4.0-8.0  
 Final Reading (div): 1445.6  
 Consolidometer No.: 1  
 1 Division (in): 0.0001  
 Start Date: 8/4/04  
 Start Time: 9 25:51

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>1162.8</b>
0.03	1209.6
0.05	1217.5
0.10	1234.4
0.15	1245.2
0.20	1252.5
0.25	1261.8
0.50	1292.1
1.00	1322.2
2.25	1352.7
4.00	1370.9
9.37	1395.4
16.00	1407.5
25.00	1417.7
36.00	1425.8
49.00	1432.0
64.00	1437.3
81.00	1441.8
100.00	1445.6



Tested By: TM Date: 8/4/04 Checked By: GU Date: 8/9/04



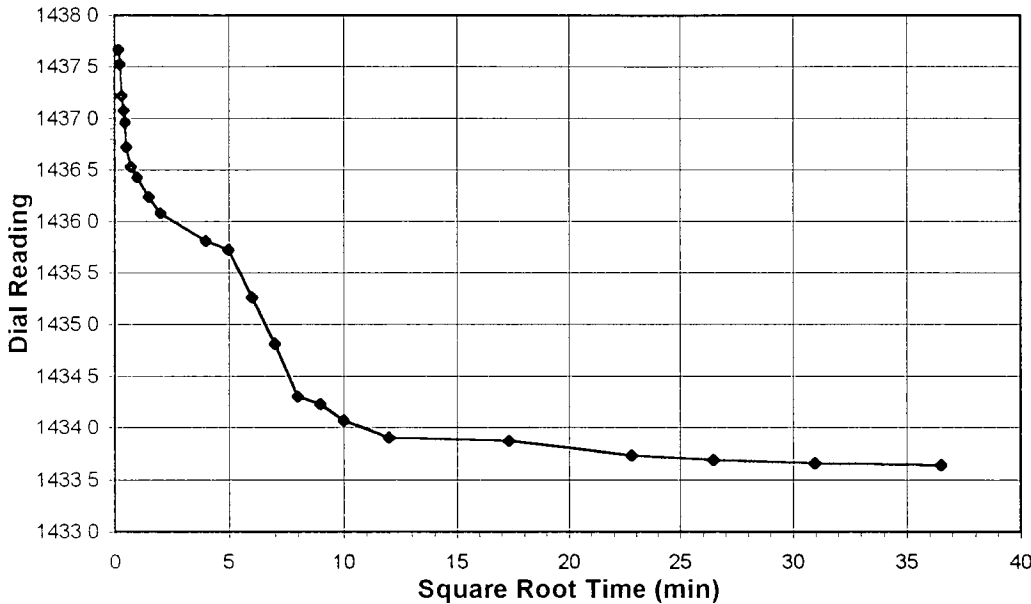
# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE  
 Client Project: GEHR TREATABILITY 204.302  
 Project No: 2004-221-01  
 Lab ID: 2004-221-01-05

Boring No.: NA  
 Depth (ft): NA  
 Sample No.: SS14  
 Visual Description: BROWNISH GRAY STABILIZED MATERIAL

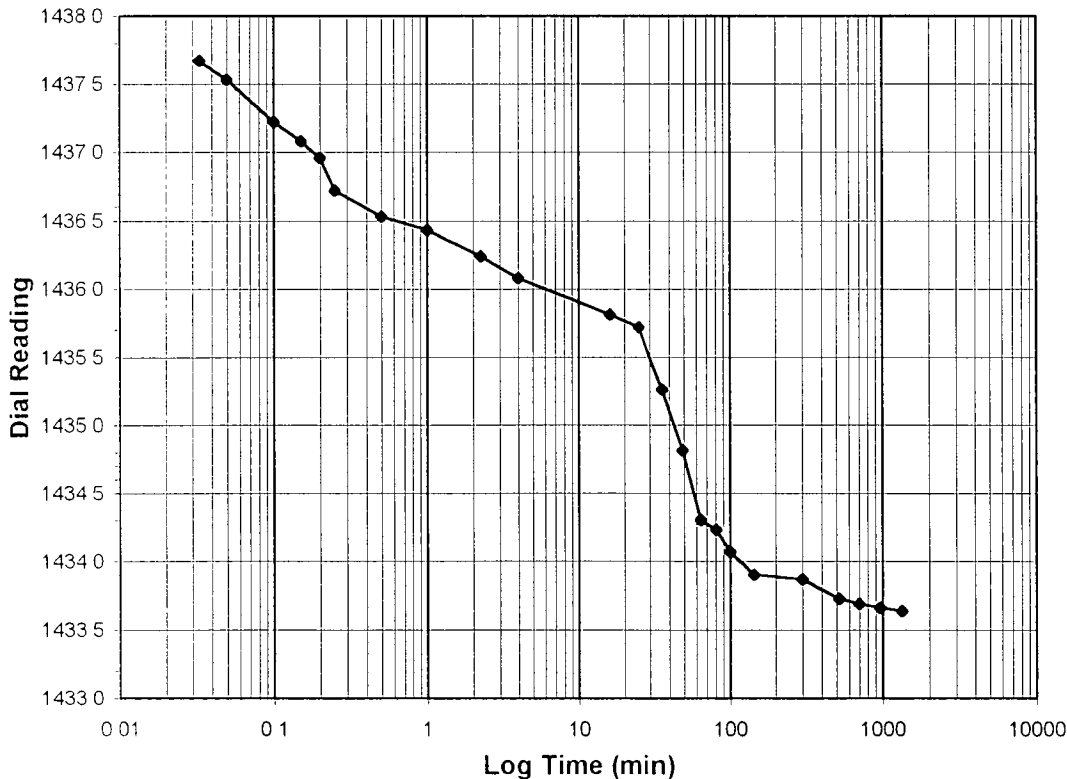
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf): 8.0-4.0  
 Final Reading (div): 1433.6  
 Consolidometer No.: 1  
 1 Division (in): 0.0001

Start Date: 8/4/04  
 Start Time: 11:30.08

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>1445.6</b>
0.03	1437.7
0.05	1437.5
0.10	1437.2
0.15	1437.1
0.20	1437.0
0.25	1436.7
0.50	1436.5
1.00	1436.4
2.25	1436.2
4.00	1436.1
16.00	1435.8
25.00	1435.7
36.00	1435.3
49.00	1434.8
64.00	1434.3
81.00	1434.2
100.00	1434.1
144.00	1433.9
300.00	1433.9
520.00	1433.7
700.00	1433.7
960.02	1433.7
1332.30	1433.6



Tested By: TM Date: 8/4/04 Checked By: GU Date: 8/9/04



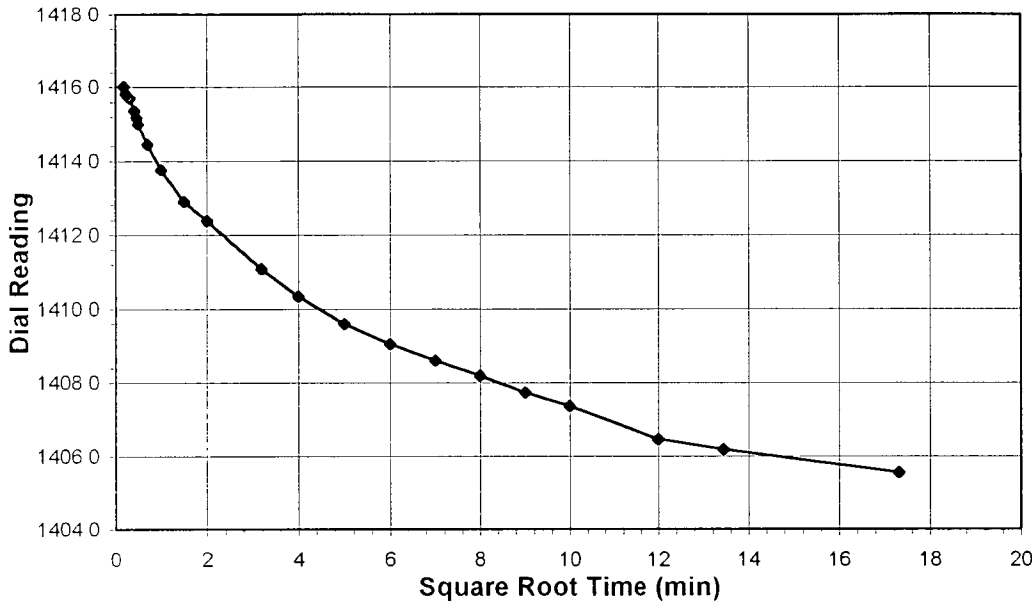
# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE  
 Client Project: GEHR TREATABILITY 204.302  
 Project No: 2004-221-01  
 Lab ID: 2004-221-01-05

Boring No.: NA  
 Depth (ft): NA  
 Sample No.: SS14  
 Visual Description: BROWNISH GRAY STABILIZED MATERIAL

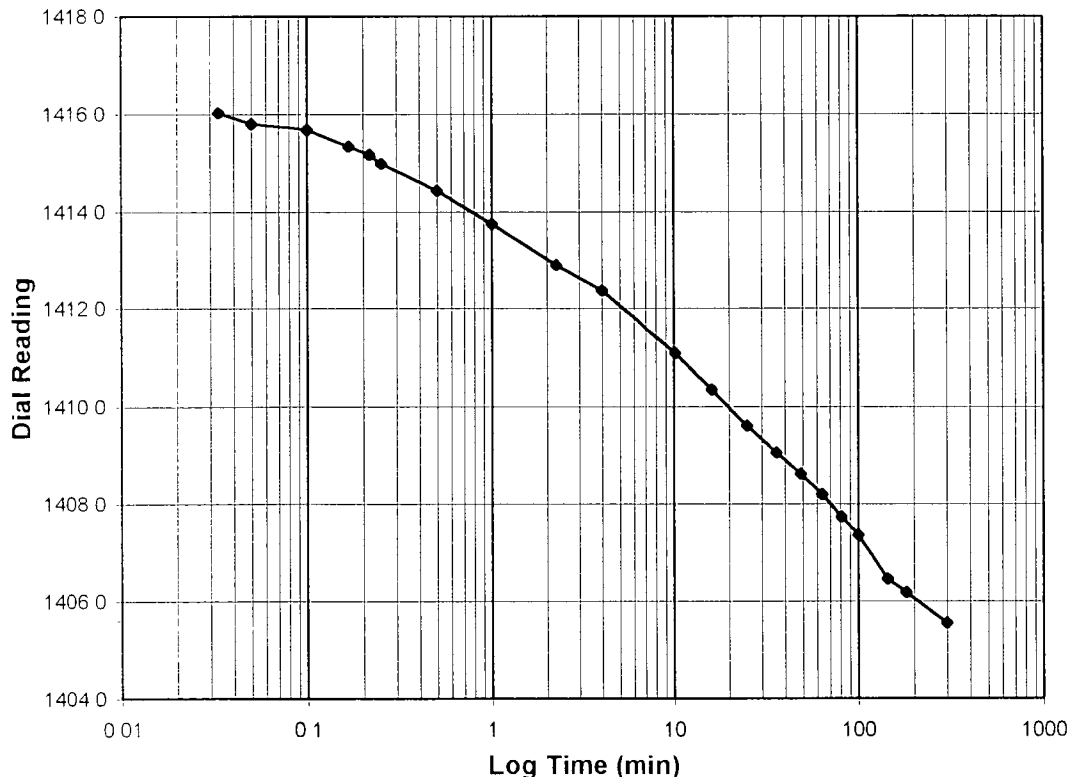
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf): 4.0-1.0  
 Final Reading (div): 1405.6  
 Consolidometer No.: 1  
 1 Division (in): 0.0001

Start Date: 8/5/04  
 Start Time: 9:49:16

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	1433.6
0.03	1416.0
0.05	1415.8
0.10	1415.7
0.17	1415.4
0.22	1415.2
0.25	1415.0
0.50	1414.4
1.00	1413.8
2.25	1412.9
4.00	1412.4
10.20	1411.1
16.00	1410.3
25.02	1409.6
36.00	1409.1
49.00	1408.6
64.00	1408.2
81.00	1407.7
100.00	1407.4
144.00	1406.5
180.67	1406.2
300.00	1405.6



Tested By: TM Date: 8/5/04 Checked By: GU Date: 8/9/04





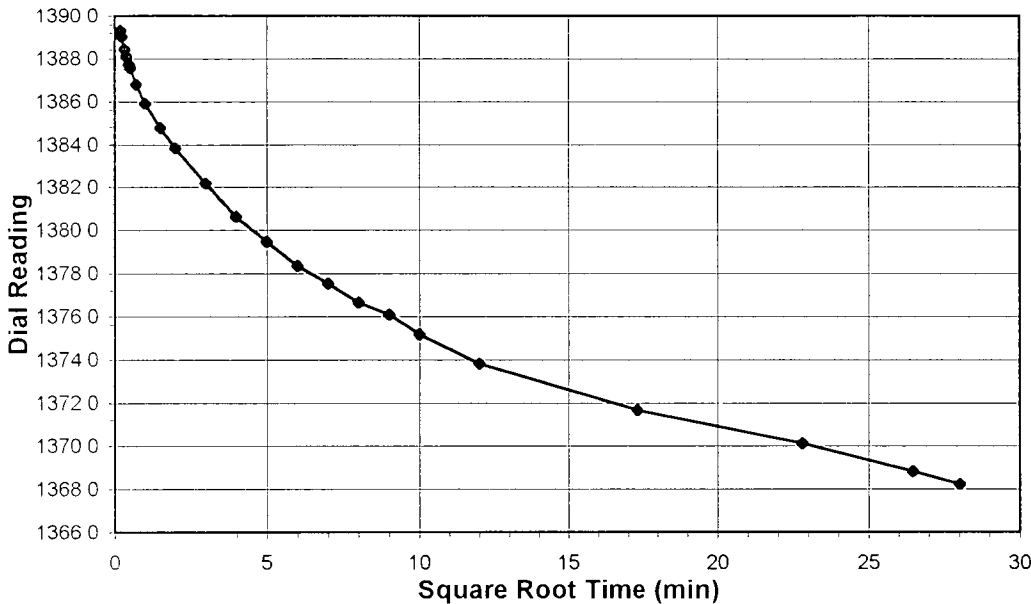
# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE  
 Client Project: GEHR TREATABILITY 204.302  
 Project No: 2004-221-01  
 Lab ID: 2004-221-01-05

Boring No.: NA  
 Depth (ft): NA  
 Sample No.: SS14  
 Visual Description: BROWNISH GRAY STABILIZED MATERIAL

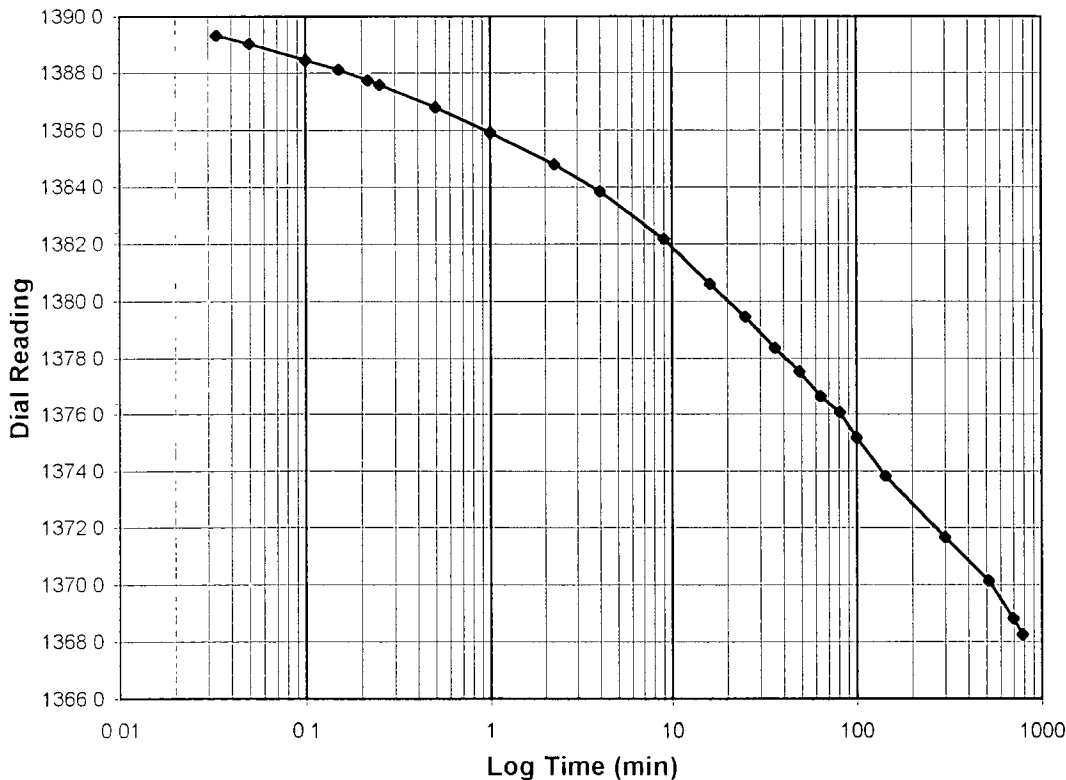
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf): 1.0-0.25  
 Final Reading (div): 1368.3  
 Consolidometer No.: 1  
 1 Division (in): 0.0001

Start Date: 8/5/04  
 Start Time: 16.01:46

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>1405.6</b>
0.03	1389.3
0.05	1389.0
0.10	1388.5
0.15	1388.1
0.22	1387.7
0.25	1387.6
0.50	1386.8
1.00	1385.9
2.25	1384.8
4.00	1383.8
9.02	1382.2
16.00	1380.6
25.00	1379.5
36.00	1378.3
49.00	1377.5
64.00	1376.6
81.00	1376.1
100.00	1375.2
144.00	1373.8
300.00	1371.7
520.00	1370.1
700.00	1368.8
785.25	1368.3



Tested By: TM Date: 8/5/04 Checked By: GU Date: 8/9/14

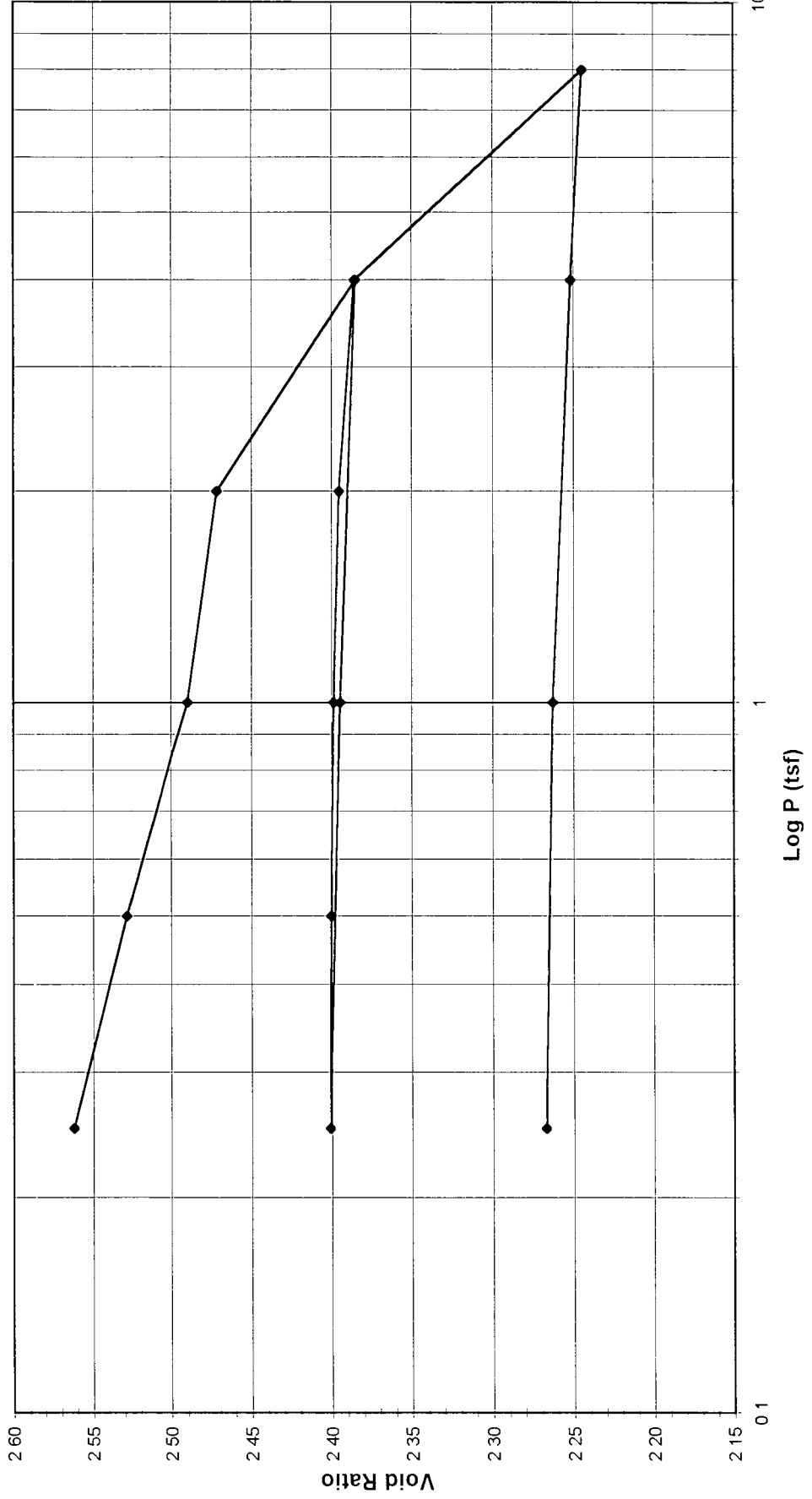


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 / AASHTO T216-03 (SOP-S24)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Reference	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-01	Sample No.	SS48
Lab ID	2004-221-01-06	Visual Description	BLACK STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED





# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 / AASHTO T216-03 (SOP-S24)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Reference	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-01	Sample No.	SS48
Lab ID	2004-221-01-06	Visual Description	BLACK STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED

Consolidometer No. 4  
 1 Division = 0.0001 (in)

### Sample Properties

	Initial	Final
<i>Water Content</i>		
Tare Number	1399	444
Wt. Tare & WS (gm)	175.00	179.43
Wt. Tare & DS (gm)	112.29	145.14
Wt. Water (gm)	62.71	34.29
Wt. Tare (gm)	38.19	99.84
Wt. DS (gm)	74.10	45.30
Water Content (%)	84.63	75.70
<i>Sample Parameters</i>		
Sample Diameter (in)	2.5	2.5
Sample Height (in)	0.75	0.681
Sample Volume (cc)	60.33	54.78
Wt. Wet Sample + Ring (gm)	160.29	156.25
Wt. of Ring (gm)	76.70	76.70
Wt. of Wet Sample (gm)	83.59	79.55
Wet Density (pcf)	86.46	90.61
Wet Density (g/cc)	1.39	1.45
Water Content (%)	84.63	75.70
Wt. of Dry Sample (gm)	45.27	45.27
Dry Density (pcf)	46.83	51.57
Dry Density (g/cc)	0.75	0.83
Void Ratio	2.5978	2.2670
Saturation (%)	87.96	90.15
Specific Gravity	2.70	Assumed

### Test Data Summary

Applied Pressure (tsf)	Final Dial Reading (div)	Machine Deflection (div)	Corrected Reading (div)	Height of Sample (mm)	Volume (cc)	Dry Density (g/cc)	Void Ratio
Seating	0	0	0	19.050	60.330	0.75045	2.59784
0.25	81.4	6.6	74.8	18.860	59.728	0.75801	2.56195
0.5	156.0	11.7	144.3	18.683	59.169	0.76517	2.52861
1	243.3	18.5	224.8	18.479	58.522	0.77364	2.49000
2	291.6	28.5	263.1	18.382	58.213	0.77773	2.47162
4	484.7	41.2	443.5	17.924	56.762	0.79762	2.38508
1	454.6	30.8	423.8	17.974	56.921	0.79540	2.39453
0.25	425.4	14.6	410.8	18.007	57.025	0.79394	2.40077
0.5	429.4	17.5	411.9	18.004	57.017	0.79406	2.40024
1	437.0	21.6	415.4	17.995	56.988	0.79445	2.39856
2	451.6	29.4	422.2	17.978	56.934	0.79522	2.39530
4	484.0	41.6	442.4	17.926	56.771	0.79749	2.38561
8	789.9	53.3	736.6	17.179	54.405	0.83218	2.24448
4	773.3	51.3	722.0	17.216	54.522	0.83039	2.25148
1	734.9	36.7	698.2	17.277	54.714	0.82748	2.26290
0.25	709.3	19.7	689.6	17.298	54.783	0.82644	2.26703

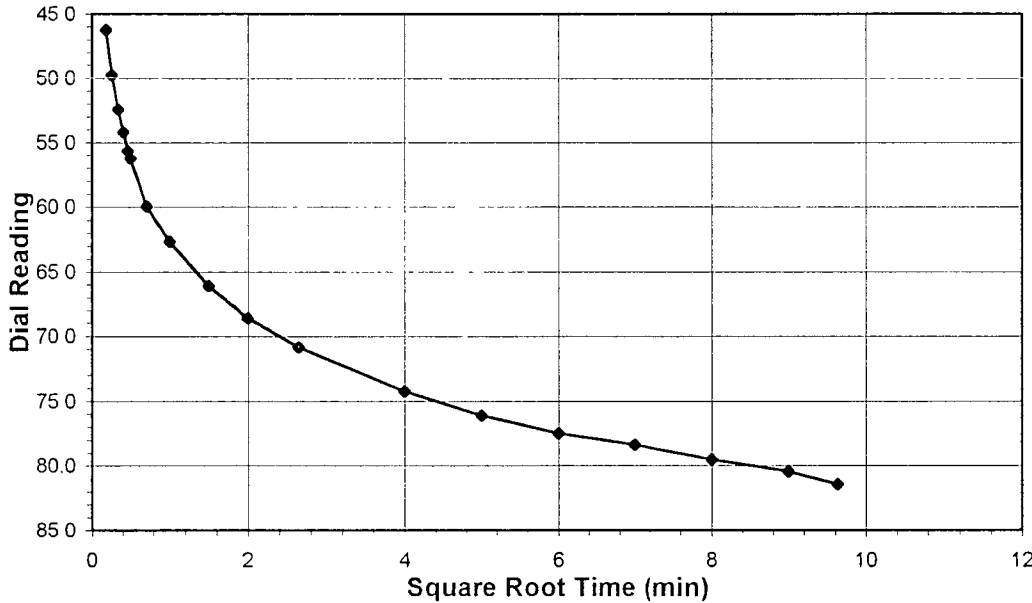
Tested By TM Date 7/30/04 Input Checked By GU Date 8/10/04



**ONE DIMENSIONAL CONSOLIDATION**  
ASTM D 2435-96 (SOP-S24A)

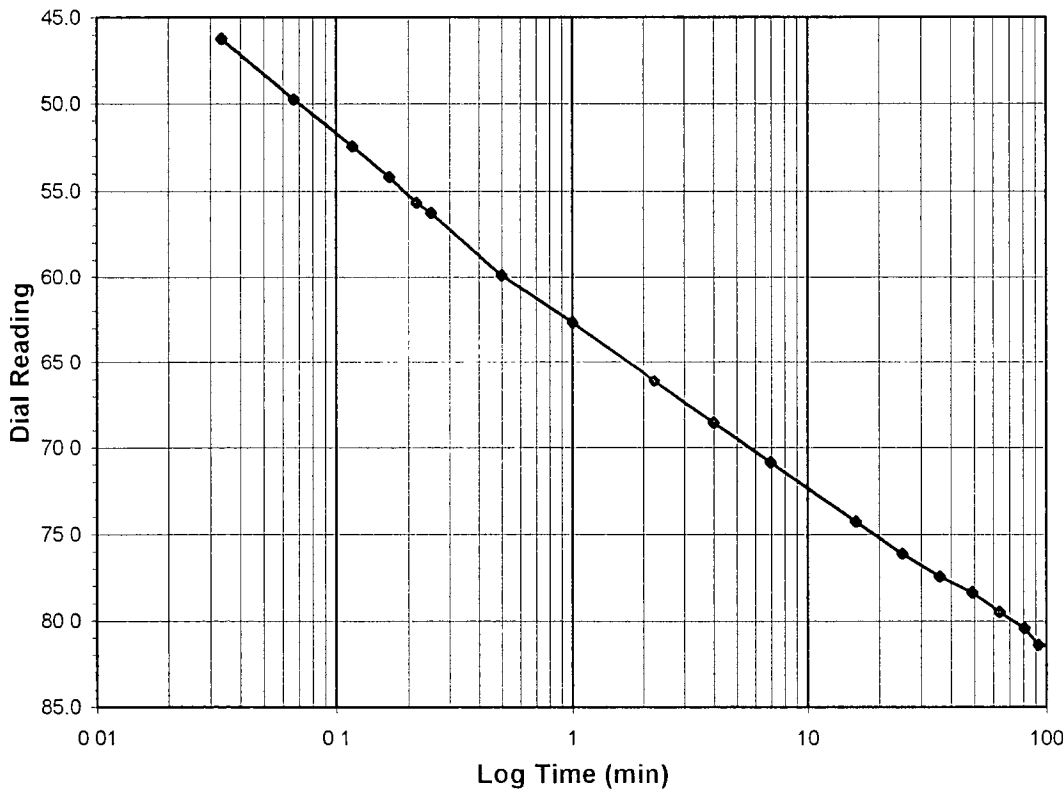
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-01	Sample No.	SS48
Lab ID	2004-221-01-06	Visual Description	BLACK STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0-0.25
Final Reading (div)	81.4
Consolidometer No.	4
1 Division (in)	0.0001
Start Date	7/30/04
Start Time	11:43:18

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<i>0.0</i>
0.03	46.2
0.07	49.8
0.12	52.4
0.17	54.2
0.22	55.7
0.25	56.3
0.50	59.9
1.00	62.7
2.25	66.1
4.00	68.6
6.98	70.9
16.00	74.2
25.00	76.1
36.00	77.5
49.00	78.4
64.00	79.5
81.00	80.4
92.90	81.4



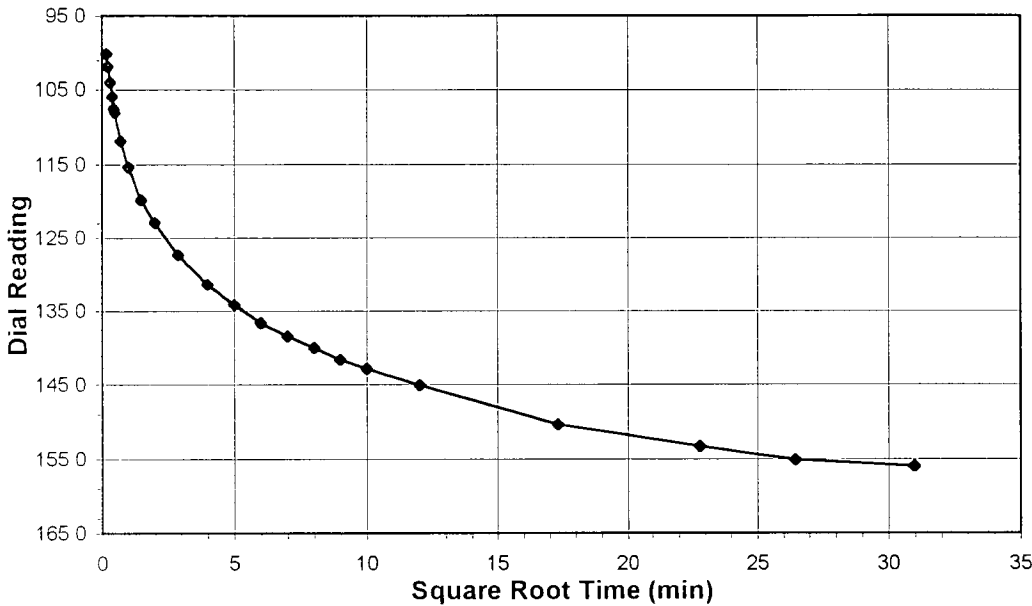
Tested By TM Date 7/30/04 Checked By GW Date 8/10/04



**ONE DIMENSIONAL CONSOLIDATION**  
ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-01	Sample No.	SS48
Lab ID	2004-221-01-06	Visual Description	BLACK STABILIZED MATERIAL

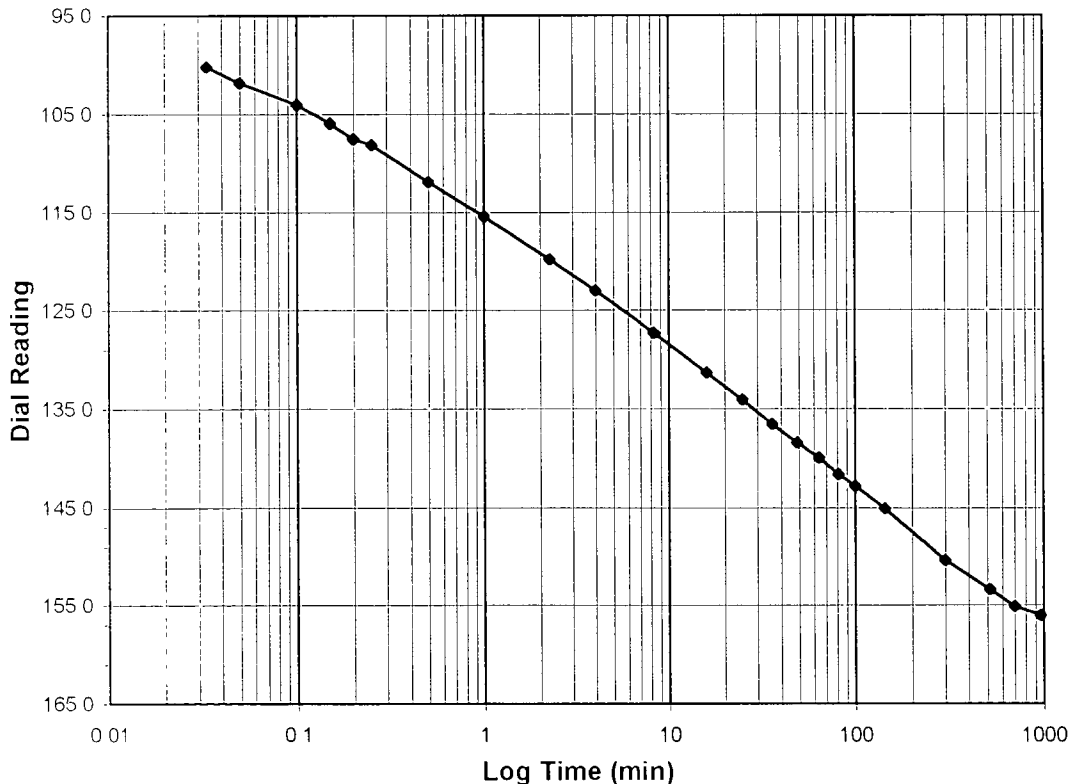
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



**Test Load (tsf)** 0.25-0.5  
**Final Reading (div)** 156.0  
 Consolidometer No. 4  
 1 Division (in) 0.0001

**Start Date** 7/30/04  
**Start Time** 13.19.52

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>81.4</b>
0.03	100.2
0.05	101.8
0.10	104.1
0.15	106.0
0.20	107.5
0.25	108.1
0.50	111.8
1.00	115.3
2.25	119.8
4.00	123.0
8.33	127.4
16.00	131.4
25.00	134.1
36.00	136.6
49.00	138.5
64.00	140.0
81.00	141.6
100.00	142.8
144.02	145.1
300.00	150.3
520.00	153.3
700.00	155.1
960.00	156.0



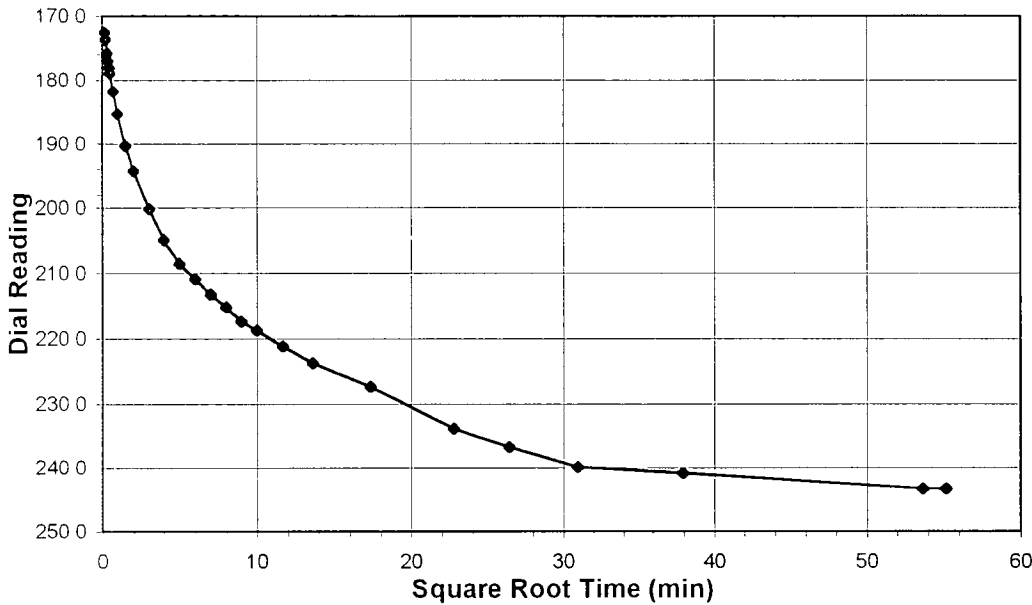
Tested By *TM* Date *7/30/04* Checked By *GU* Date *8/10/04*

**ONE DIMENSIONAL CONSOLIDATION**  
ASTM D 2435-96 (SOP-S24A)



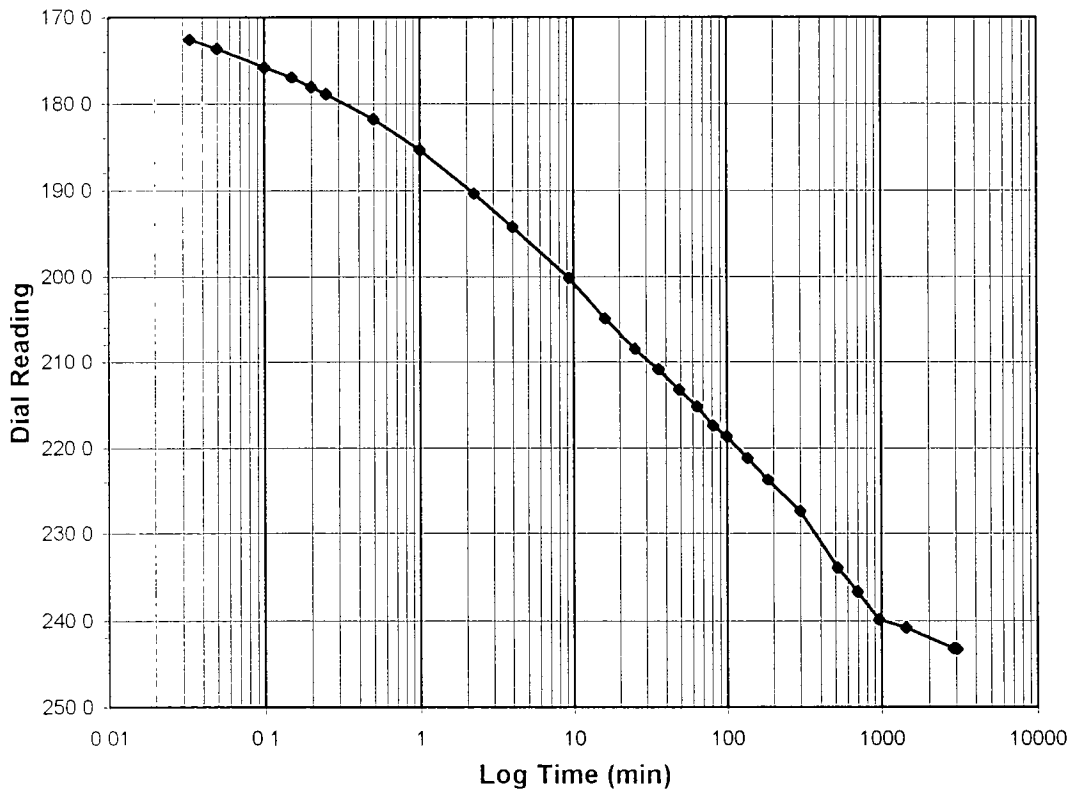
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204 302	Depth (ft)	NA
Project No.	2004-221-01	Sample No.	SS48
Lab ID	2004-221-01-06	Visual Description	BLACK STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



<b>Test Load (tsf)</b>	<b>0.5-1.0</b>
<b>Final Reading (div)</b>	<b>243.3</b>
Consolidometer No.	4
1 Division (in)	0.0001
Start Date	7/31/04
Start Time	6:37 55

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>156.0</b>
0.03	172.6
0.05	173.6
0.10	175.8
0.15	177.0
0.20	178.1
0.25	179.0
0.50	181.8
1.00	185.3
2.25	190.3
4.00	194.3
9.37	200.2
16.00	204.9
25.00	208.5
36.00	210.9
49.00	213.3
64.00	215.2
81.00	217.4
100.00	218.7
135.92	221.2
185.48	223.8
300.00	227.4
520.00	233.9
700.00	236.7
960.00	239.9
1440.00	240.8
2880.00	243.3
3042.02	243.3



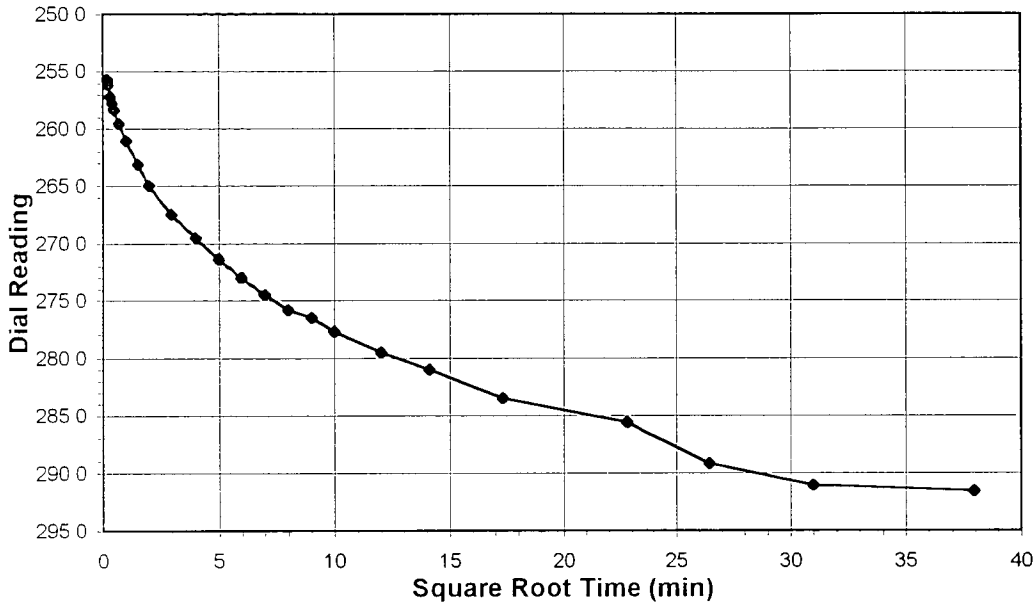
Tested By TM Date 7/31/04 Checked By GU Date 8/10/04



**ONE DIMENSIONAL CONSOLIDATION**  
ASTM D 2435-96 (SOP-S24A)

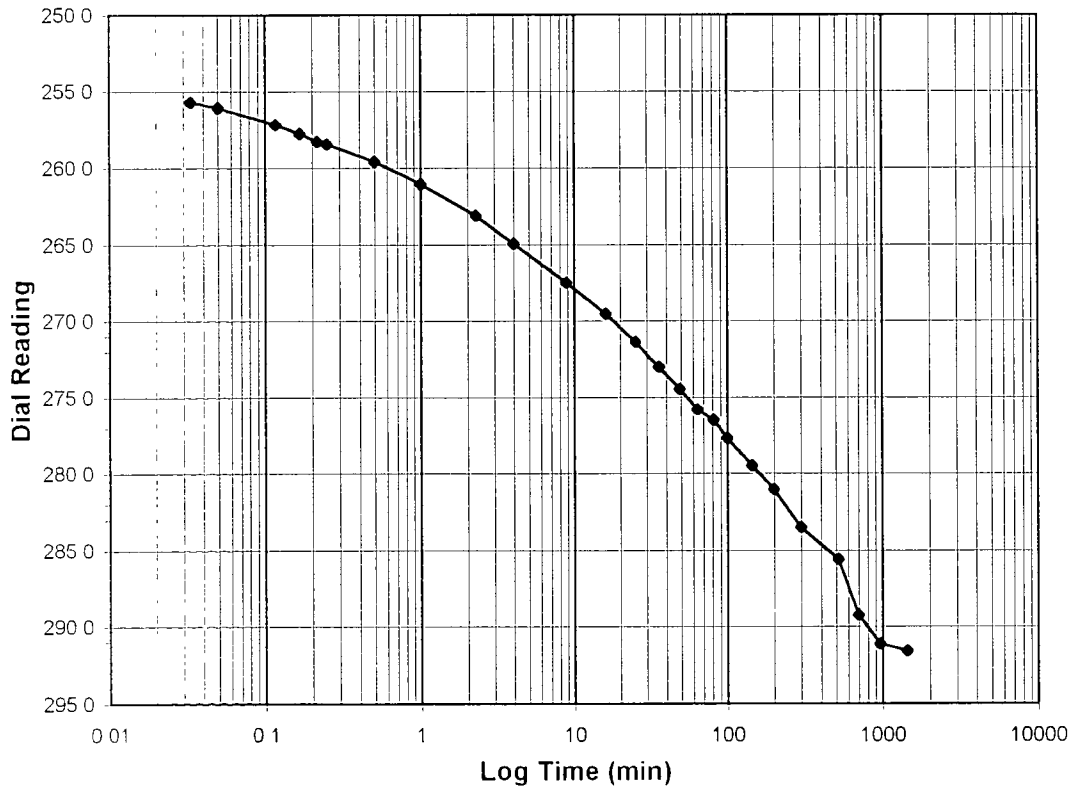
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-01	Sample No.	SS48
Lab ID	2004-221-01-06	Visual Description	BLACK STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	1.0-2.0
Final Reading (div)	291.6
Consolidometer No.	4
1 Division (in)	0.0001
Start Date	8/2/04
Start Time	9:31:18

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>243.3</b>
0.03	255.7
0.05	256.1
0.12	257.2
0.17	257.8
0.22	258.3
0.25	258.4
0.50	259.6
1.00	261.0
2.27	263.1
4.00	264.9
8.83	267.5
16.00	269.5
25.00	271.4
36.00	273.0
49.00	274.5
64.00	275.8
81.00	276.5
100.00	277.7
144.00	279.5
198.88	281.0
300.02	283.5
520.00	285.6
700.00	289.2
960.00	291.1
1440.00	291.6



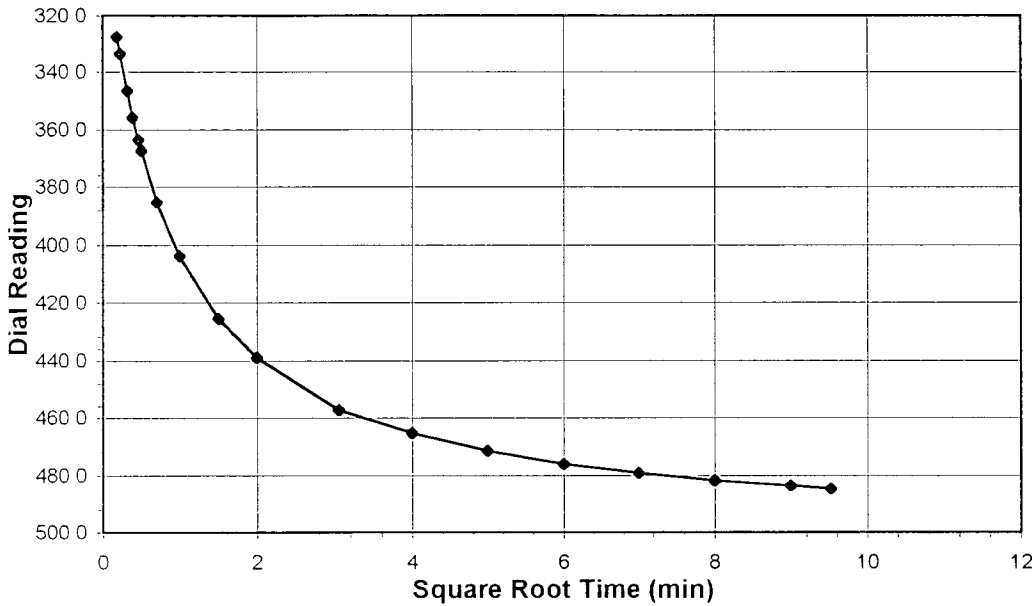
Tested By TM Date 8/2/04 Checked By GU Date 8/10/04



**ONE DIMENSIONAL CONSOLIDATION**  
ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-01	Sample No.	SS48
Lab ID	2004-221-01-06	Visual Description	BLACK STABILIZED MATERIAL

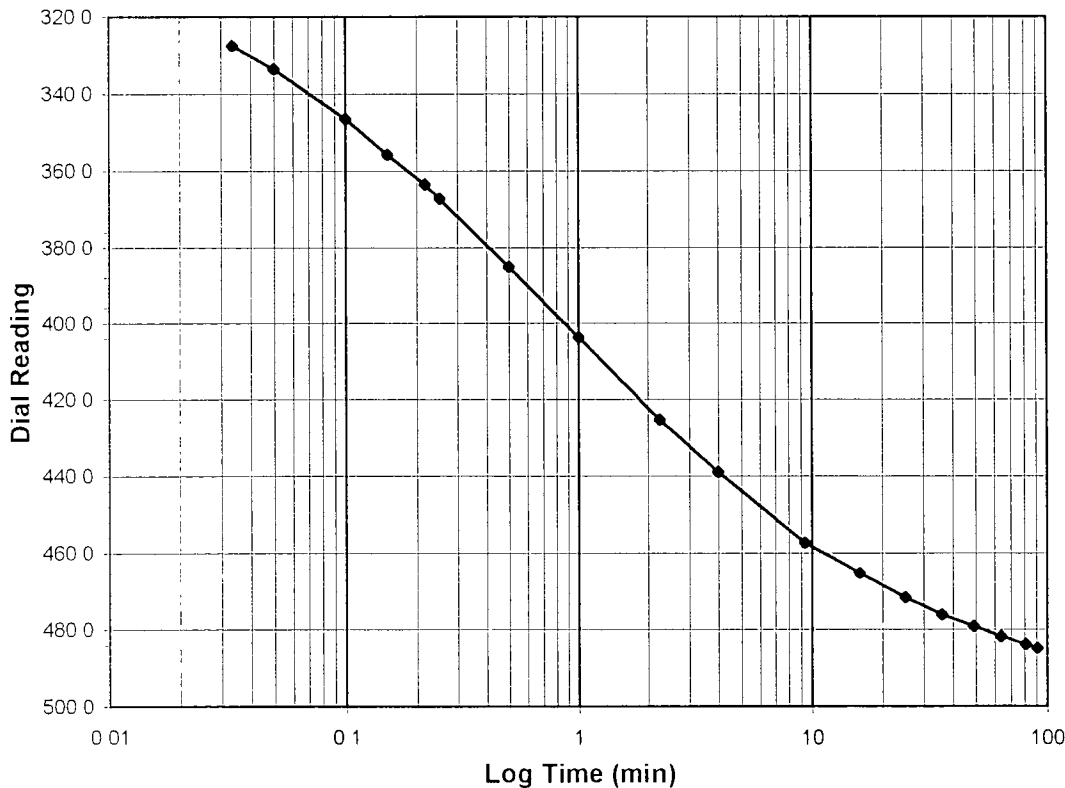
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



<b>Test Load</b>	(tsf)	<b>2.0-4.0</b>
<b>Final Reading</b>	(div)	<b>484.7</b>
Consolidometer No.		4
1 Division	(in)	0.0001

Start Date	8/3/04
Start Time	9.39:43

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>291.6</b>
0.03	327.6
0.05	333.5
0.10	346.6
0.15	355.9
0.22	363.5
0.25	367.2
0.50	385.1
1.00	403.7
2.25	425.4
4.00	438.9
9.37	457.3
16.00	465.3
25.00	471.6
36.00	476.1
49.00	479.2
64.00	481.8
81.02	483.7
90.72	484.7



Tested By TM Date 8/3/04 Checked By GU Date 8/10/04

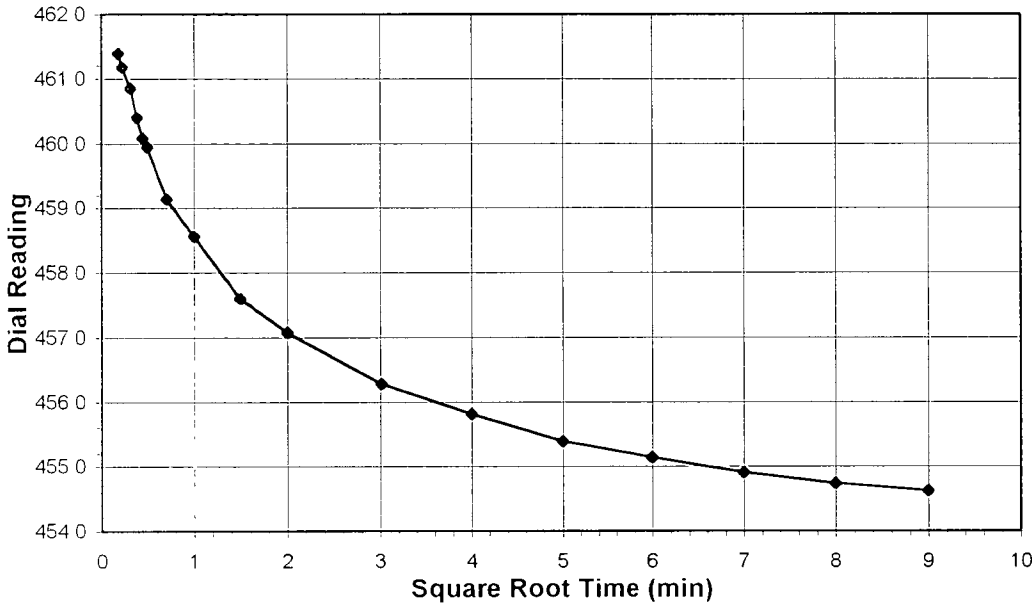




**ONE DIMENSIONAL CONSOLIDATION**  
ASTM D 2435-96 (SOP-S24A)

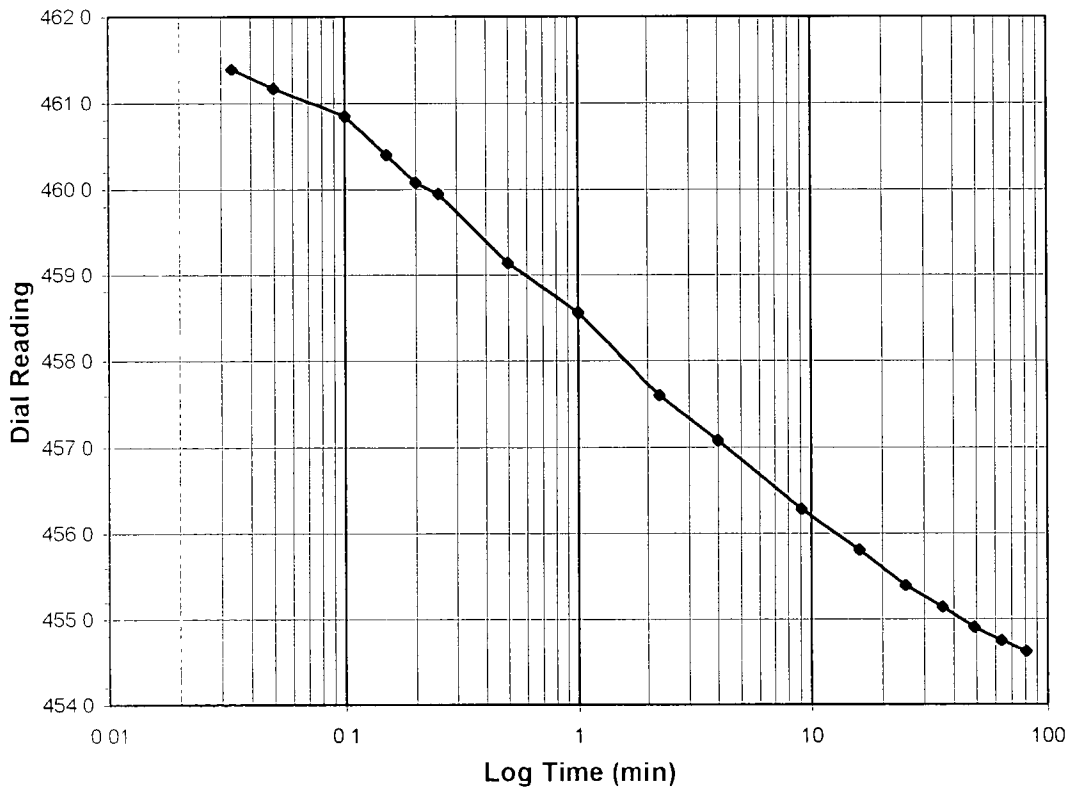
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-01	Sample No.	SS48
Lab ID	2004-221-01-06	Visual Description	BLACK STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



<b>Test Load (tsf)</b>	<b>4.0-1.0</b>
<b>Final Reading (div)</b>	<b>454.6</b>
Consolidometer No.	4
1 Division (in)	0.0001
Start Date	8/3/04
Start Time	11.12'04

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>484.7</b>
0.03	461.4
0.05	461.2
0.10	460.9
0.15	460.4
0.20	460.1
0.25	460.0
0.50	459.1
1.00	458.6
2.25	457.6
4.00	457.1
9.11	456.3
16.02	455.8
25.00	455.4
36.00	455.1
49.00	454.9
64.00	454.7
81.00	454.6



Tested By *TM* Date *8/3/04* Checked By *GU* Date *8/10/06*

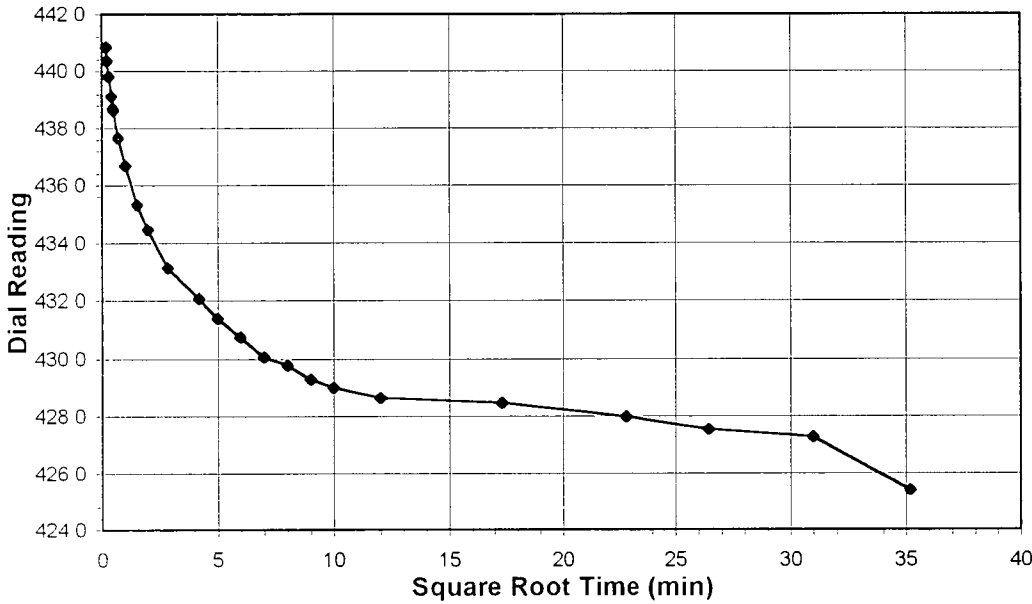


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204 302	Depth (ft)	NA
Project No.	2004-221-01	Sample No.	SS48
Lab ID	2004-221-01-06	Visual Description	BLACK STABILIZED MATERIAL

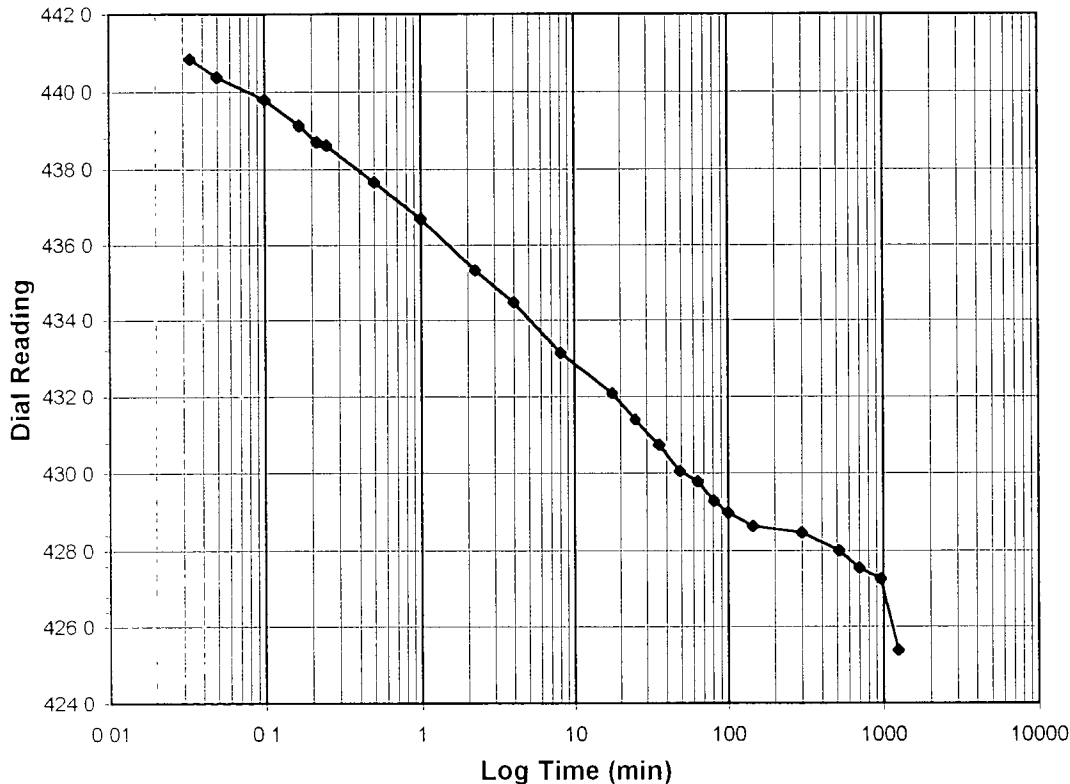
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	1.0-0.25
Final Reading (div)	425.4
Consolidometer No.	4
1 Division (in)	0.0001

Start Date	8/3/04
Start Time	12:38.01

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>454.6</b>
0.03	440.9
0.05	440.4
0.10	439.8
0.17	439.1
0.22	438.7
0.25	438.6
0.50	437.7
1.00	436.7
2.25	435.3
4.00	434.5
8.08	433.1
17.55	432.1
25.00	431.4
36.00	430.8
49.00	430.1
64.00	429.8
81.00	429.3
100.00	429.0
144.00	428.6
300.00	428.5
520.00	428.0
700.00	427.5
960.00	427.3
1238.85	425.4



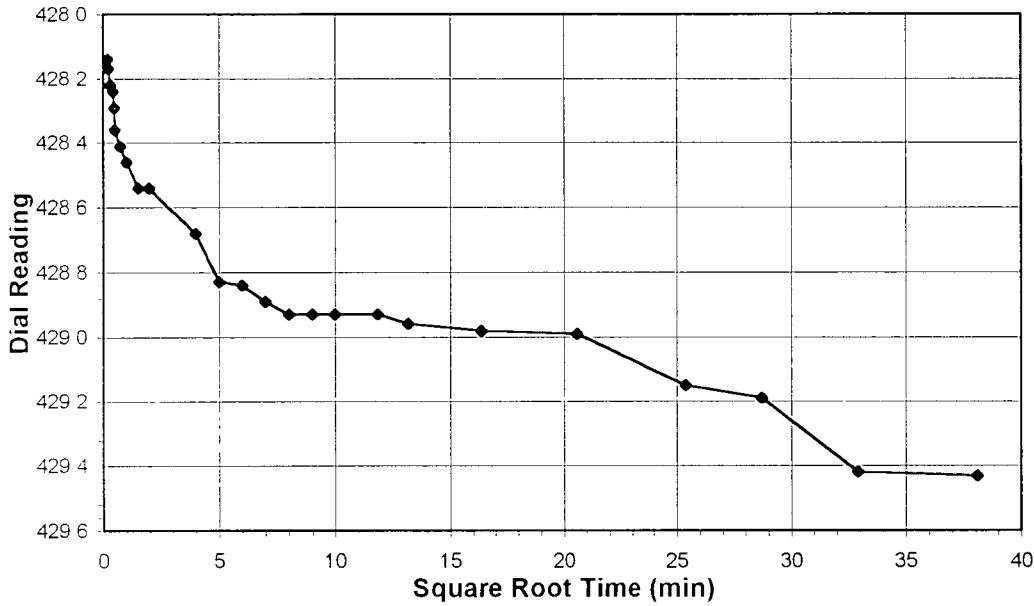
Tested By TM Date 8/3/04 Checked By GU Date 8/10/04



**ONE DIMENSIONAL CONSOLIDATION**  
ASTM D 2435-96 (SOP-S24A)

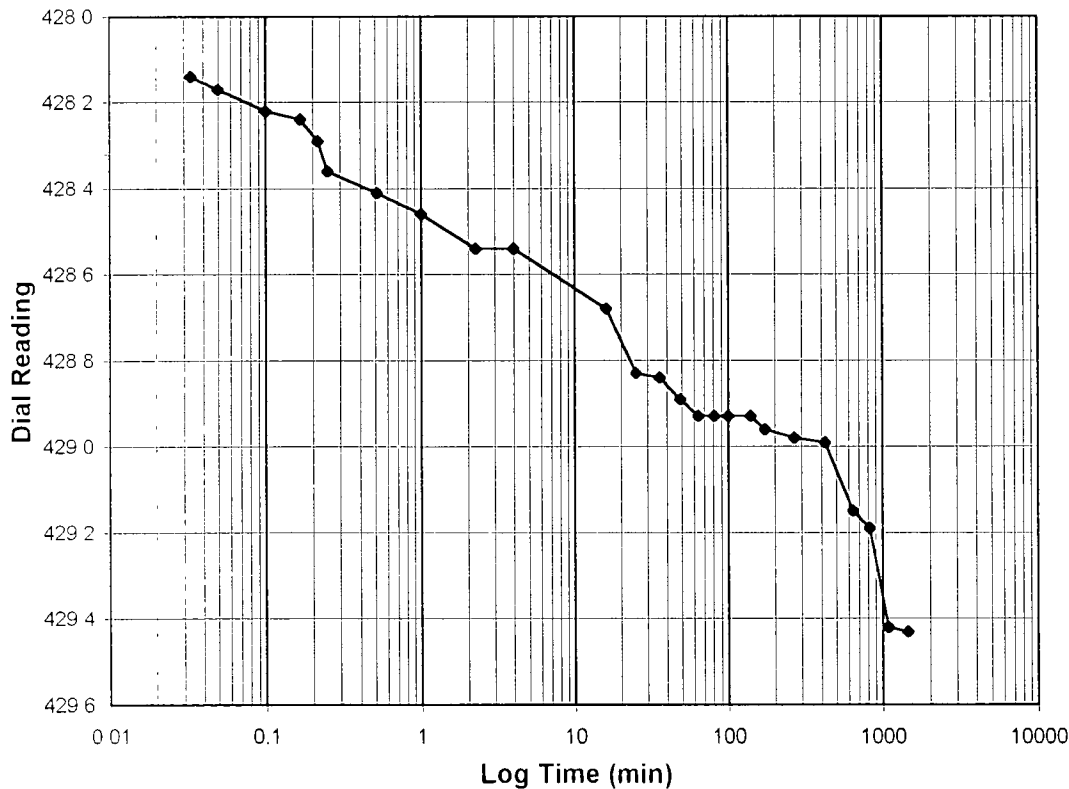
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-01	Sample No.	SS48
Lab ID	2004-221-01-06	Visual Description	BLACK STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



<b>Test Load</b>	(tsf)	<b>0.25-0.5</b>
<b>Final Reading</b>	(div)	<b>429.4</b>
Consolidometer No.		4
1 Division	(in)	0.0001
Start Date		8/4/04
Start Time		9 26.54

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>425.4</b>
0.03	428.1
0.05	428.2
0.10	428.2
0.17	428.2
0.22	428.3
0.25	428.4
0.52	428.4
1.00	428.5
2.25	428.5
4.00	428.5
16.00	428.7
25.00	428.8
36.00	428.8
49.00	428.9
64.00	428.9
81.00	428.9
100.00	428.9
140.00	428.9
173.00	429.0
268.00	429.0
424.00	429.0
644.00	429.2
824.00	429.2
1084.02	429.4
1450.43	429.4



Tested By *TM* Date *8/4/04* Checked By *GU* Date *8/10/04*

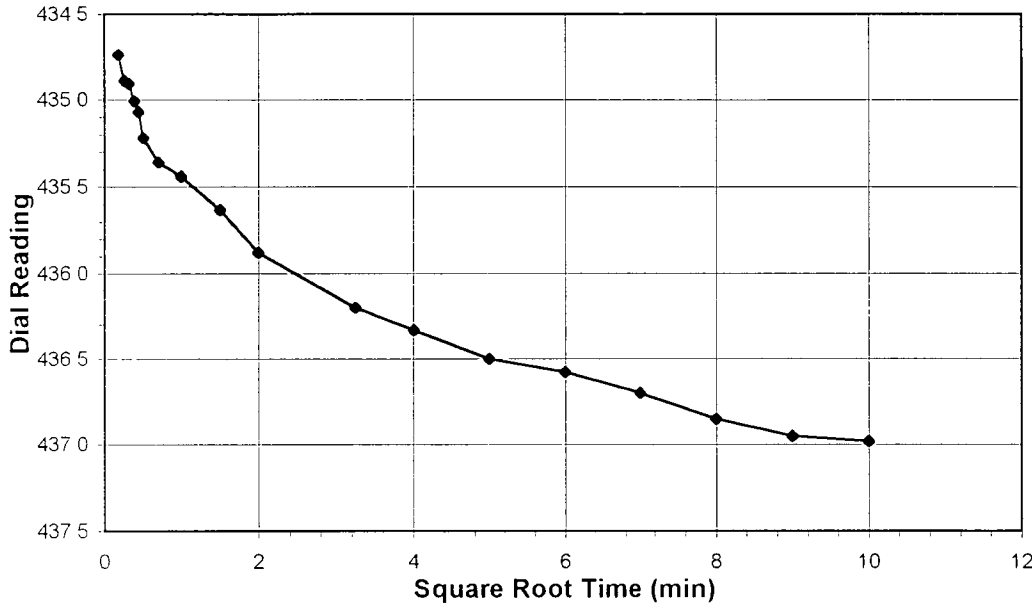


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-01	Sample No.	SS48
Lab ID	2004-221-01-06	Visual Description	BLACK STABILIZED MATERIAL

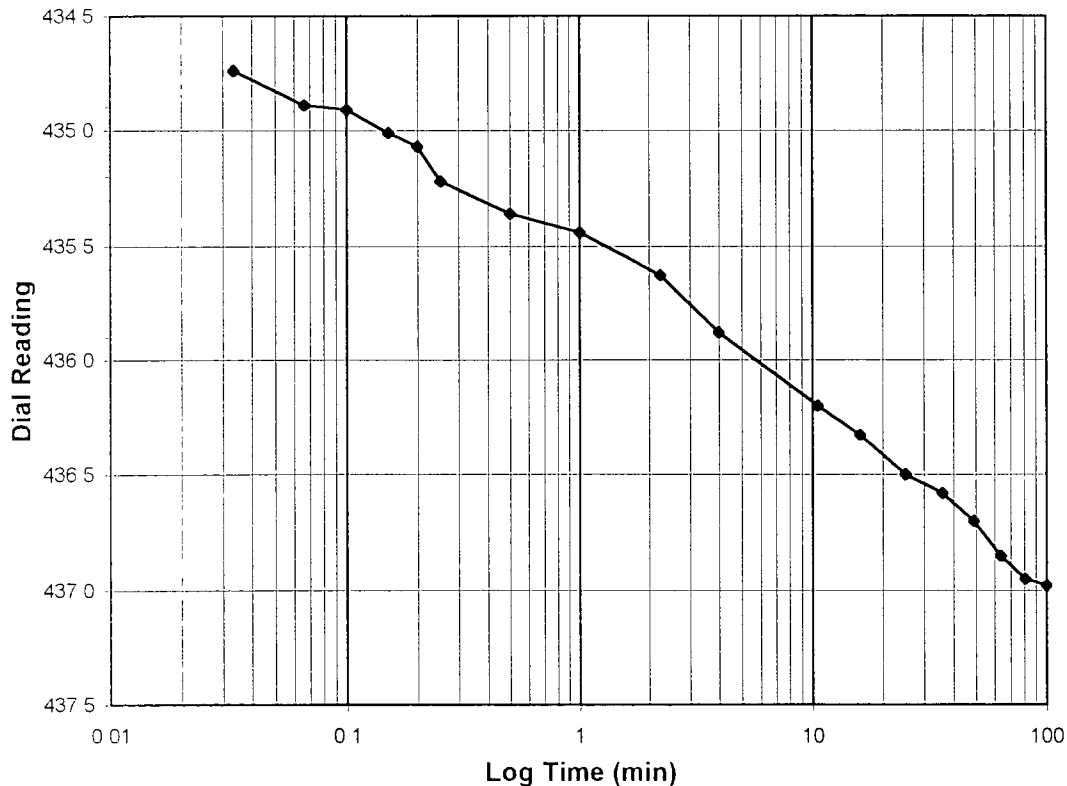
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.5-1.0
Final Reading (div)	437.0
Consolidometer No.	4
1 Division (in)	0.0001

Start Date	8/5/04
Start Time	9:48:54

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>429.4</b>
0.03	434.7
0.07	434.9
0.10	434.9
0.15	435.0
0.20	435.1
0.25	435.2
0.50	435.4
1.00	435.4
2.25	435.6
4.00	435.9
10.57	436.2
16.02	436.3
25.00	436.5
36.00	436.6
49.00	436.7
64.00	436.9
81.00	437.0
100.00	437.0



Tested By *TM* Date *8/5/04* Checked By *GU* Date *8/10/04*

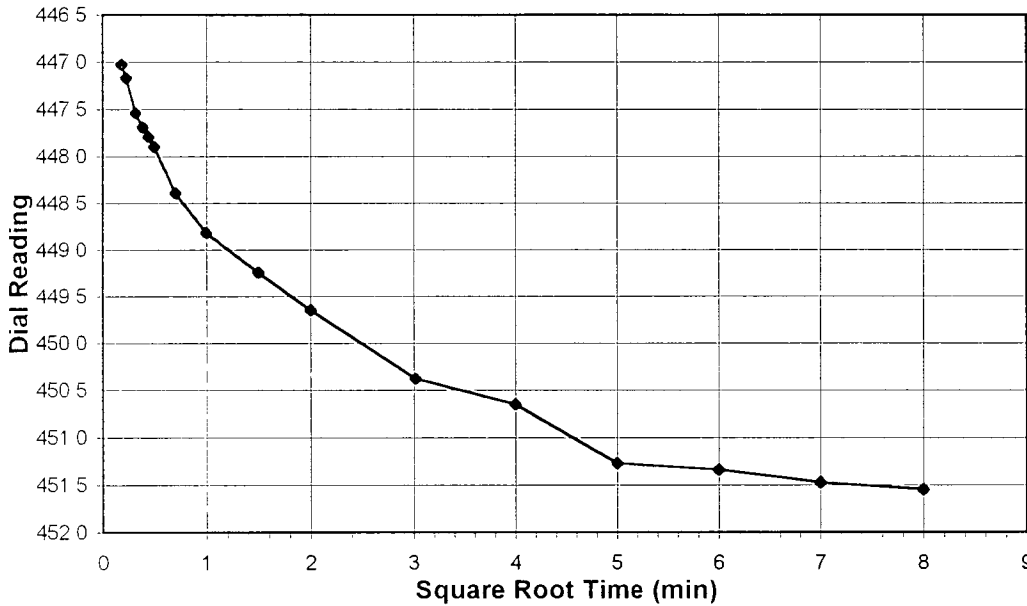


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-01	Sample No.	SS48
Lab ID	2004-221-01-06	Visual Description	BLACK STABILIZED MATERIAL

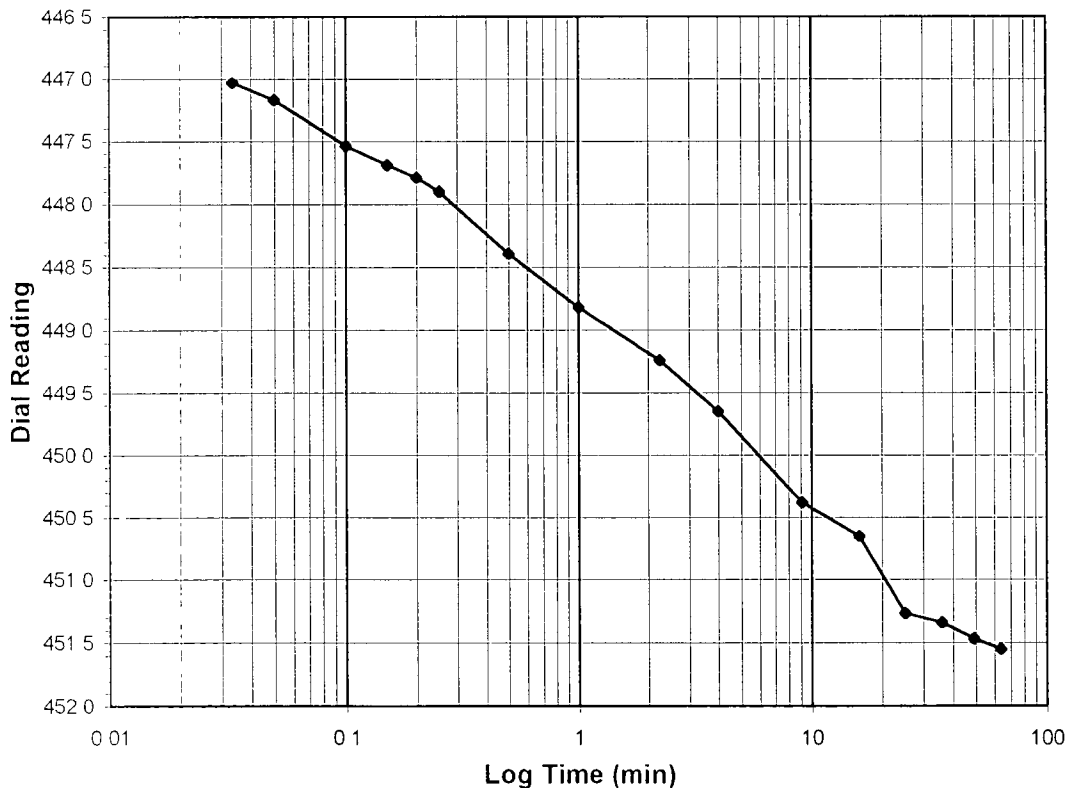
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	1.0-2.0
Final Reading (div)	451.6
Consolidometer No.	4
1 Division (in)	0.0001

Start Date	8/5/04
Start Time	11:36:22

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>437.0</b>
0.03	447.0
0.05	447.2
0.10	447.5
0.15	447.7
0.20	447.8
0.25	447.9
0.50	448.4
1.00	448.8
2.25	449.2
4.00	449.7
9.11	450.4
16.00	450.7
25.00	451.3
36.00	451.3
49.00	451.5
64.00	451.6



Tested By TM Date 8/5/04 Checked By GU Date 8/19/04

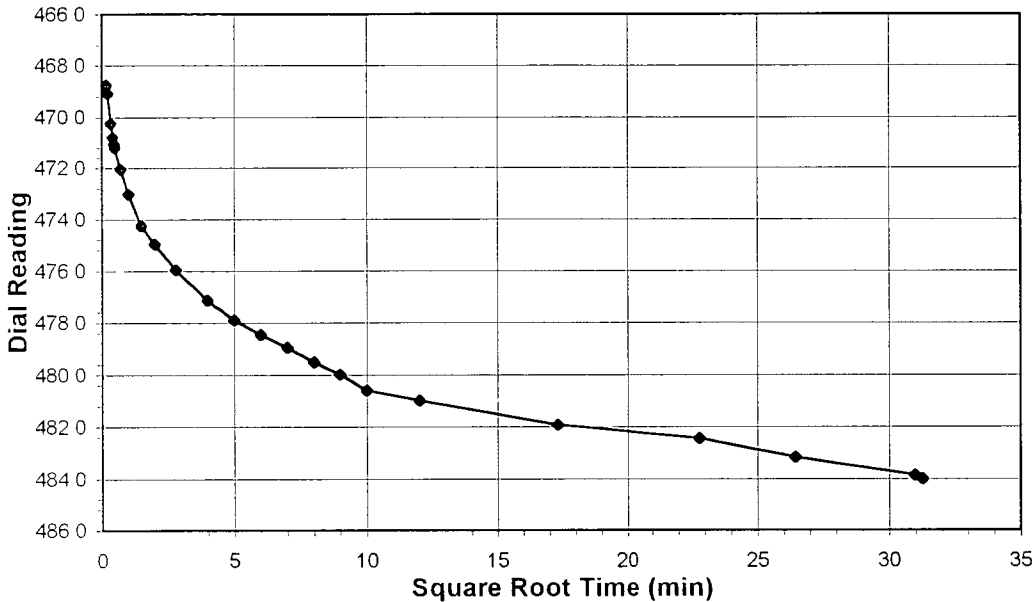


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-01	Sample No.	SS48
Lab ID	2004-221-01-06	Visual Description	BLACK STABILIZED MATERIAL

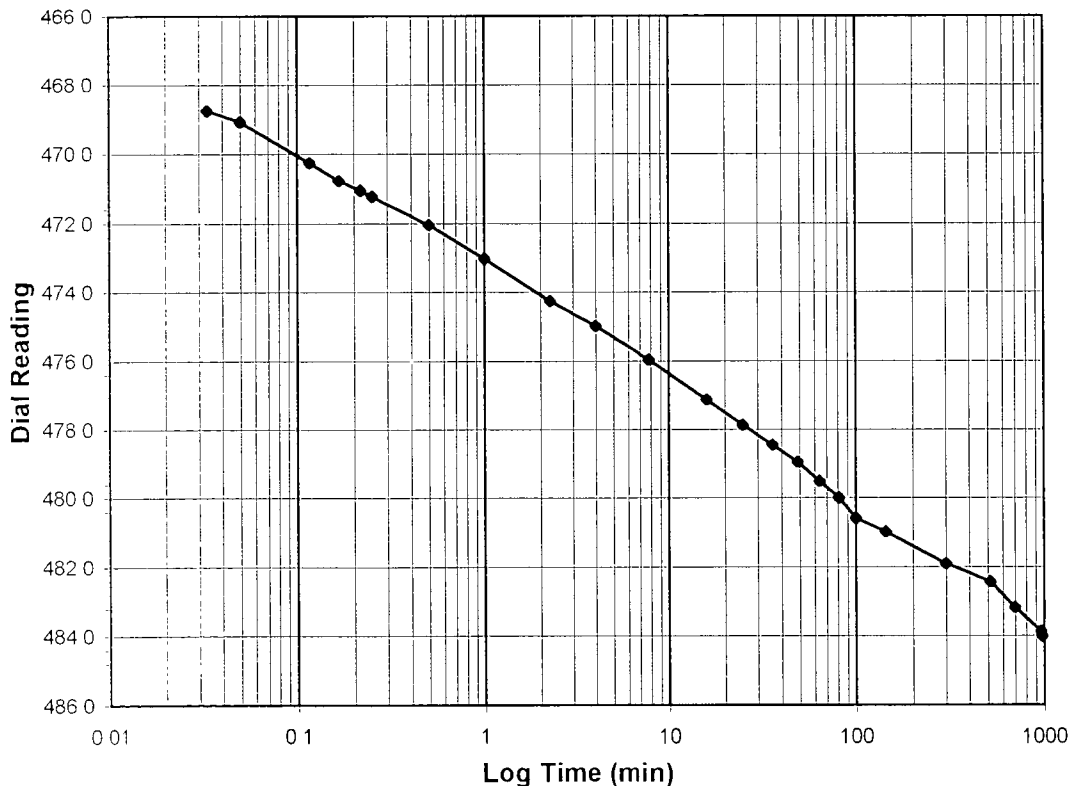
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	2.0-4.0
Final Reading (div)	484.0
Consolidometer No.	4
1 Division (in)	0.0001

Start Date	8/5/04
Start Time	12:49:19

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>451.6</b>
0.03	468.8
0.05	469.1
0.12	470.3
0.17	470.8
0.22	471.1
0.25	471.2
0.50	472.0
1.00	473.0
2.25	474.3
4.00	475.0
7.85	476.0
16.00	477.1
25.00	477.9
36.00	478.5
49.00	479.0
64.00	479.5
81.00	480.0
100.00	480.6
144.00	481.0
300.00	481.9
520.00	482.4
700.00	483.2
960.00	483.9
977.70	484.0



Tested By *TM* Date *8/5/04* Checked By *GU* Date *8/10/04*

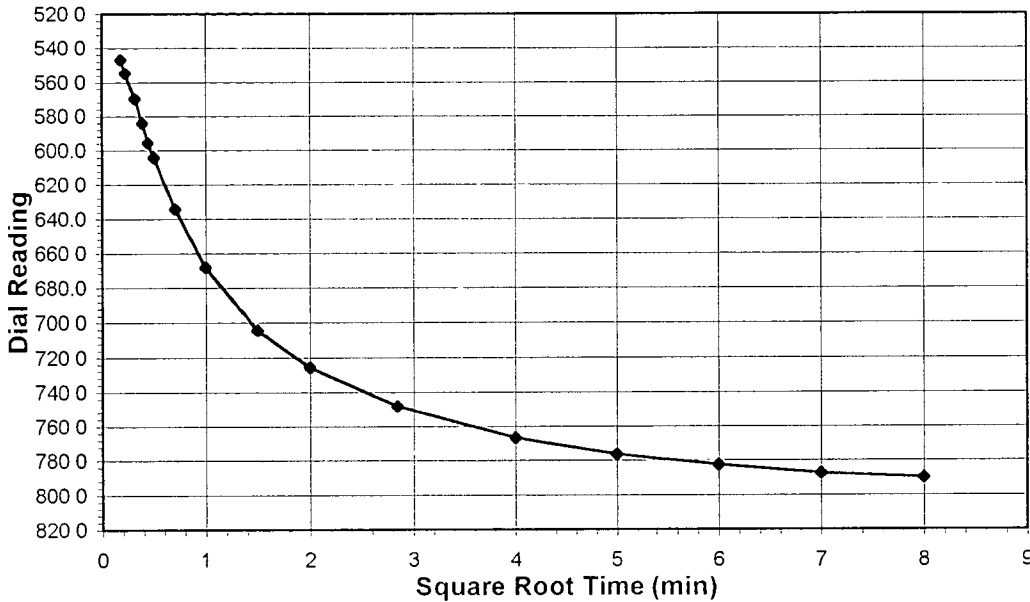


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-01	Sample No.	SS48
Lab ID	2004-221-01-06	Visual Description	BLACK STABILIZED MATERIAL

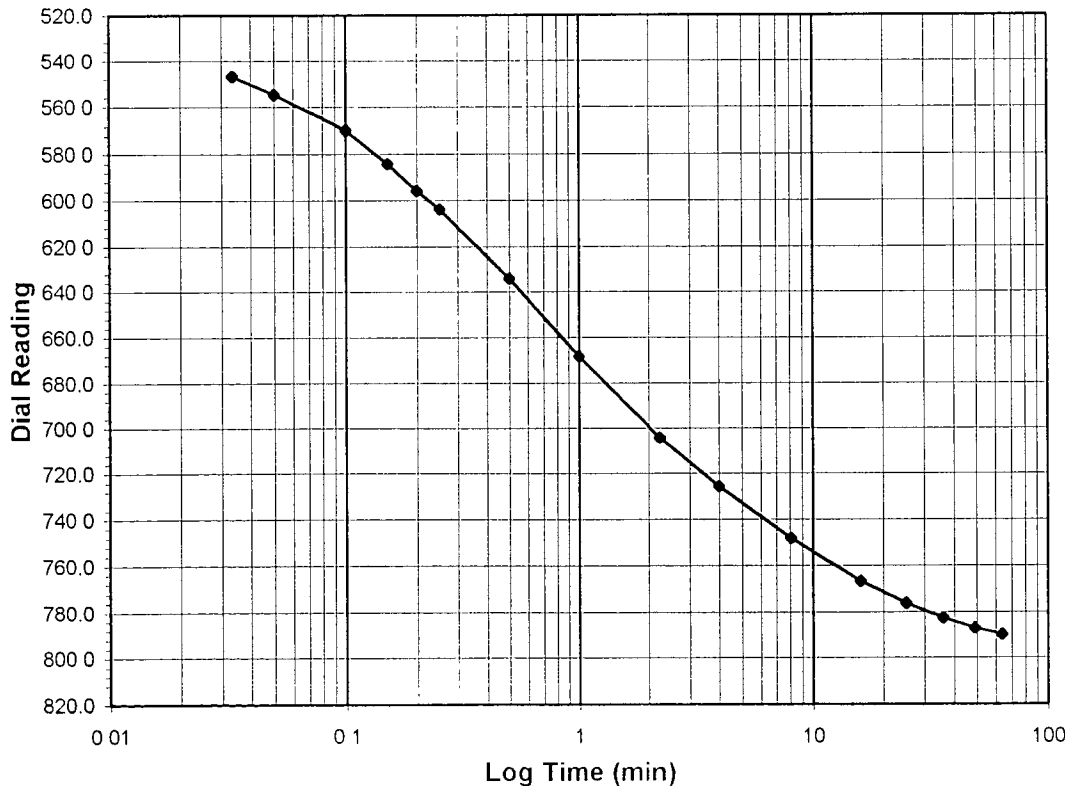
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	4.0-8.0
Final Reading (div)	789.9
Consolidometer No.	4
1 Division (in)	0.0001

Start Date	8/6/04
Start Time	5:22:05

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>484.0</b>
0.03	546.8
0.05	554.6
0.10	569.6
0.15	584.0
0.20	595.7
0.25	603.9
0.50	634.1
1.00	668.3
2.25	704.2
4.00	725.5
8.08	748.1
16.00	766.7
25.00	776.1
36.00	782.6
49.00	787.1
64.00	789.9



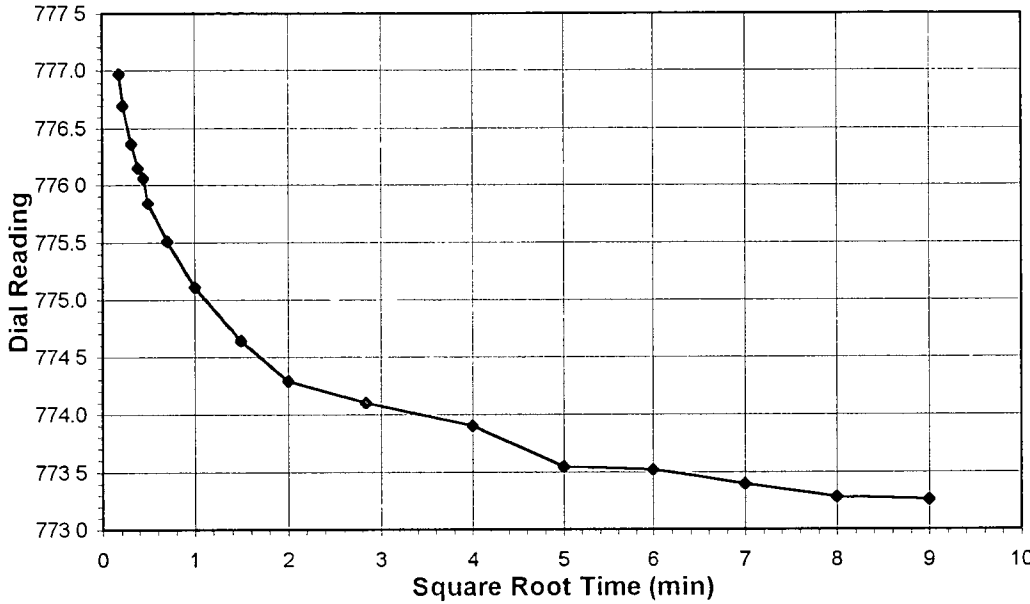
Tested By *TM* Date *8/6/04* Checked By *GU* Date *8/10/04*



**ONE DIMENSIONAL CONSOLIDATION**  
ASTM D 2435-96 (SOP-S24A)

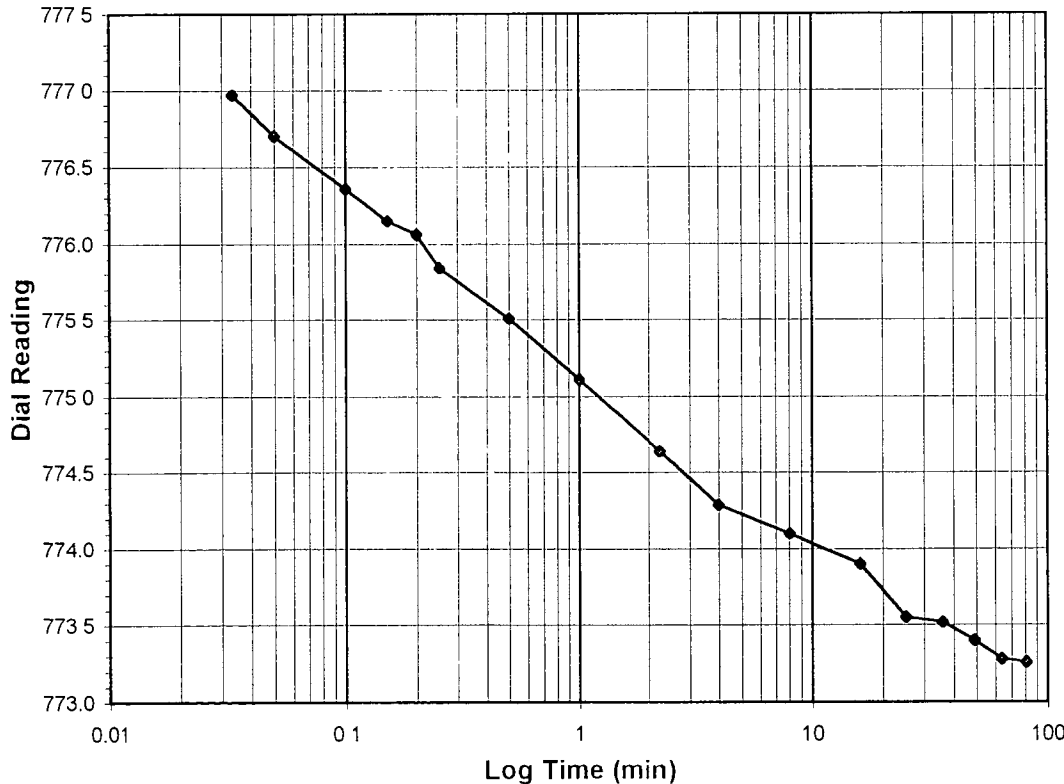
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-01	Sample No.	SS48
Lab ID	2004-221-01-06	Visual Description	BLACK STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	8.0-4.0
Final Reading (div)	773.3
Consolidometer No.	4
1 Division (in)	0.0001
Start Date	8/6/04
Start Time	6:33:26

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>789.9</b>
0.03	777.0
0.05	776.7
0.10	776.4
0.15	776.2
0.20	776.1
0.25	775.8
0.50	775.5
1.00	775.1
2.25	774.6
4.00	774.3
8.07	774.1
16.00	773.9
25.00	773.6
36.00	773.5
49.00	773.4
64.02	773.3
81.00	773.3



Tested By TM Date 8/6/04 Checked By GU Date 8/10/04



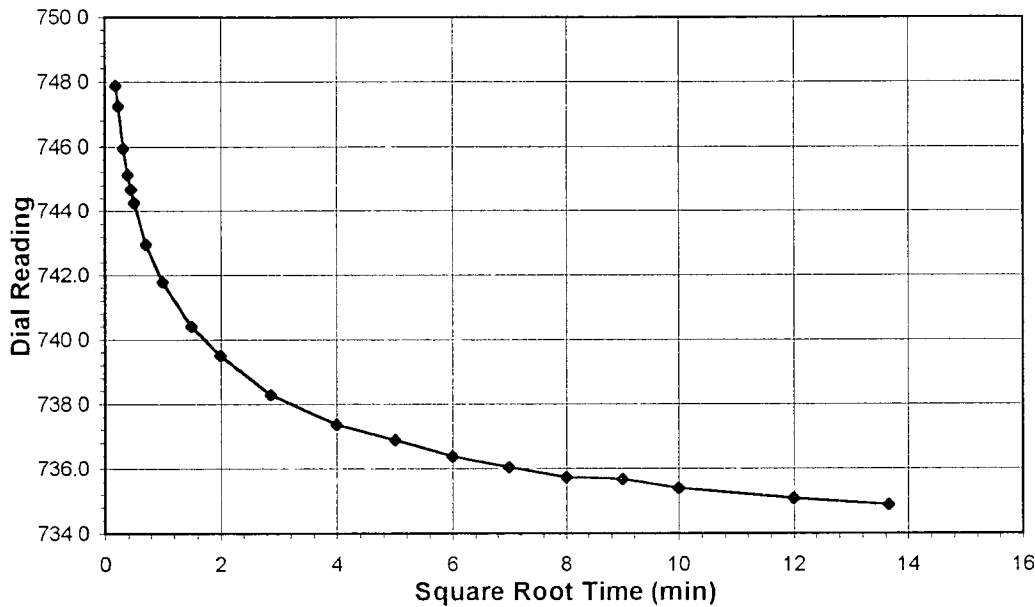


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

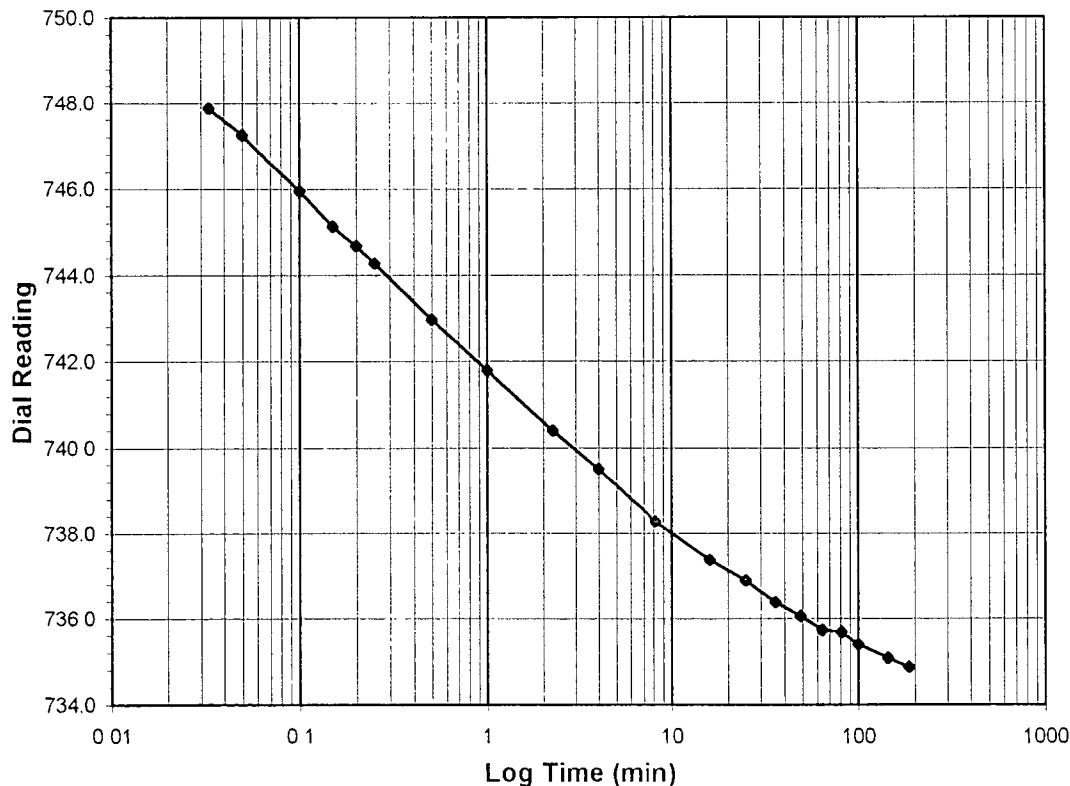
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-01	Sample No.	SS48
Lab ID	2004-221-01-06	Visual Description	BLACK STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	4.0-1.0
Final Reading (div)	734.9
Consolidometer No.	4
1 Division (in)	0.0001
Start Date	8/6/04
Start Time	8:07:25

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>773.3</b>
0.03	747.9
0.05	747.3
0.10	746.0
0.15	745.1
0.20	744.7
0.25	744.3
0.50	743.0
1.00	741.8
2.25	740.4
4.00	739.5
8.22	738.3
16.00	737.4
25.00	736.9
36.00	736.4
49.00	736.1
64.00	735.7
81.00	735.7
100.00	735.4
144.00	735.1
186.70	734.9



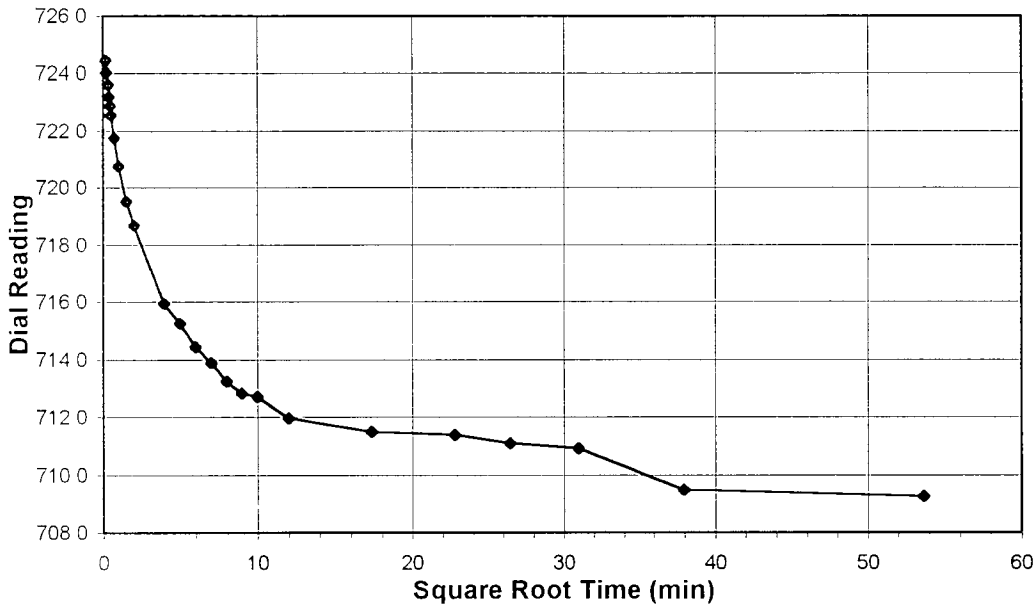
Tested By *TM* Date *8/6/04* Checked By *GU* Date *8/19/04*



**ONE DIMENSIONAL CONSOLIDATION**  
ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-01	Sample No.	SS48
Lab ID	2004-221-01-06	Visual Description	BLACK STABILIZED MATERIAL

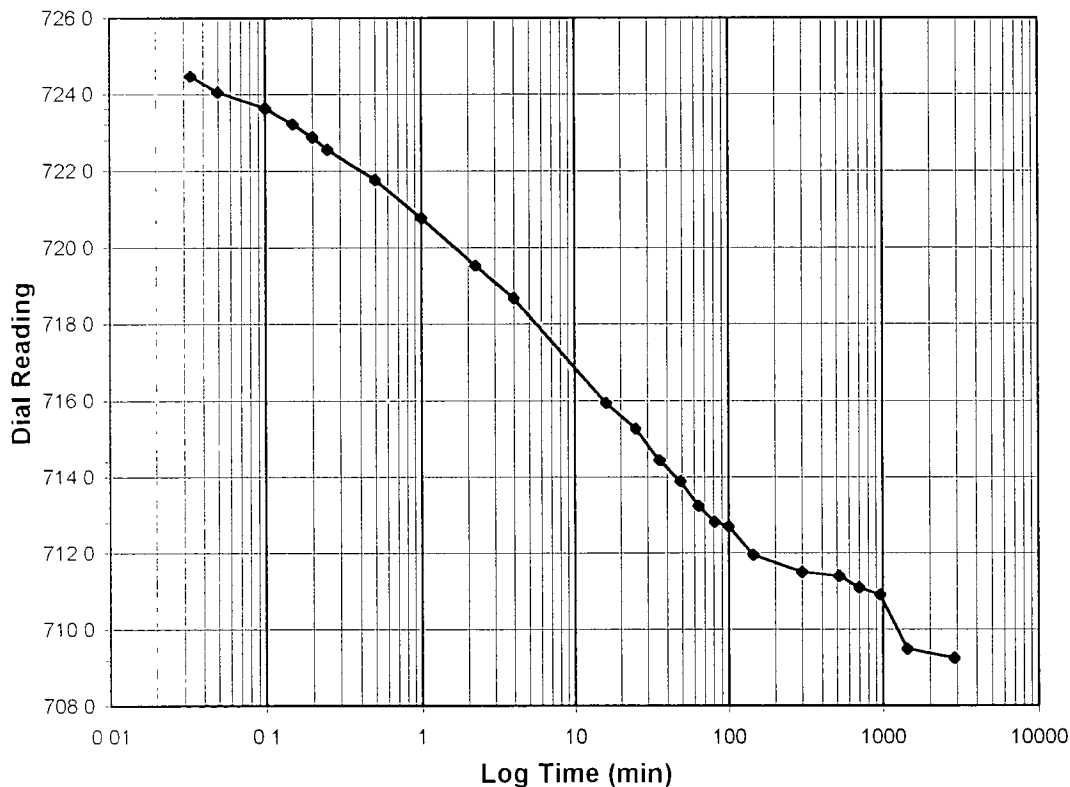
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	1.0-0.25
Final Reading (div)	709.3
Consolidometer No.	4
1 Division (in)	0.0001

Start Date	8/6/04
Start Time	11:48:15

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<i>734.9</i>
0.03	724.5
0.05	724.0
0.10	723.6
0.15	723.2
0.20	722.9
0.25	722.6
0.50	721.8
1.00	720.8
2.25	719.5
4.00	718.7
16.00	715.9
25.00	715.3
36.00	714.4
49.00	713.9
64.00	713.2
81.00	712.8
100.00	712.7
144.00	712.0
300.00	711.5
520.00	711.4
700.02	711.1
960.00	710.9
1440.00	709.5
2880.02	709.3



Tested By *TM* Date *8/6/04* Checked By *GU* Date *8/10/04*

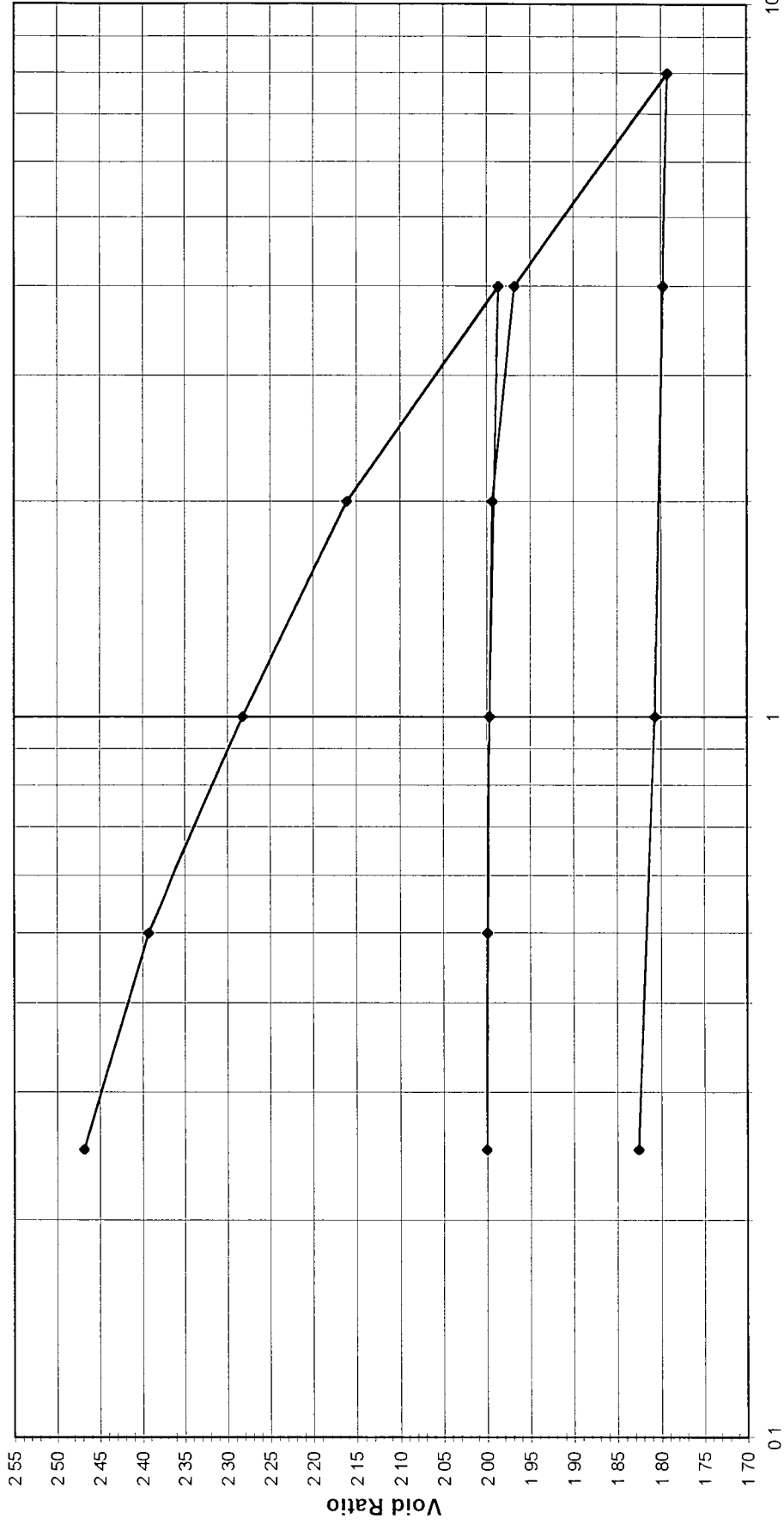


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 / AASHTO T216-03 (SOP-S24)

Client	BLASLAND, BOUCK, & LEE	Boring No	NA
Client Reference	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-01	Sample No.	SS50
Lab ID	2004-221-01-07	Visual Description	BROWNISH GRAY STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Log P (tsf)



**ONE DIMENSIONAL CONSOLIDATION**

ASTM D 2435-96 / AASHTO T216-03 (SOP-S24)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Reference	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-01	Sample No.	SS50
Lab ID	2004-221-01-07	Visual Description	BROWNISH GRAY STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED

**Consolidometer No.** 3

**1 Division** = 0.0001 (in)

**Sample Properties**

	Initial	Final
<i>Water Content</i>		
Tare Number	40	40
Wt. Tare & WS (gm)	255.06	199.77
Wt. Tare & DS (gm)	182.30	162.38
Wt. Water (gm)	72.76	37.39
Wt. Tare (gm)	101.54	101.54
Wt. DS (gm)	80.76	60.84
Water Content (%)	90.09	61.46
<i>Sample Parameters</i>		
Sample Diameter (in)	2.5	2.5
Sample Height (in)	1	0.787
Sample Volume (cc)	80.44	63.27
Wt. Wet Sample + Ring (gm)	260.87	243.56
Wt. of Ring (gm)	145.96	145.96
Wt. of Wet Sample (gm)	114.91	97.60
Wet Density (pcf)	89.14	96.25
Wet Density (g/cc)	1.43	1.54
Water Content (%)	90.09	61.46
Wt. of Dry Sample (gm)	60.45	60.45
Dry Density (pcf)	46.89	59.62
Dry Density (g/cc)	0.75	0.96
Void Ratio	2.5929	1.8261
Saturation (%)	93.82	90.87
Specific Gravity	2.70	Assumed

**Test Data Summary**

Applied Pressure (tsf)	Final Dial Reading (div)	Machine Deflection (div)	Corrected Reading (div)	Height of Sample (mm)	Volume (cc)	Dry Density (g/cc)	Void Ratio
Seating	0	0	0	25.400	80.440	0.75148	2.59290
0.25	346.5	0.8	345.7	24.522	77.659	0.77839	2.46871
0.5	559.6	2.5	557.2	23.985	75.958	0.79582	2.39273
1	872.8	7.6	865.2	23.202	73.480	0.82266	2.28203
2	1217.2	15.6	1201.6	22.348	70.774	0.85411	2.16119
4	1715.5	28.7	1686.8	21.115	66.871	0.90397	1.98684
1	1670.4	11.6	1658.8	21.187	67.096	0.90093	1.99691
0.25	1653.2	4.4	1648.8	21.212	67.177	0.89985	2.00051
0.5	1656.5	4.8	1651.7	21.205	67.153	0.90017	1.99945
1	1668.0	8.1	1660.0	21.184	67.087	0.90105	1.99650
2	1685.0	16.3	1668.7	21.161	67.017	0.90200	1.99335
4	1767.7	27.5	1740.2	20.980	66.442	0.90980	1.96767
8	2271.7	43.0	2228.7	19.739	62.512	0.96700	1.79214
4	2253.9	38.7	2215.3	19.773	62.620	0.96532	1.79699
1	2203.3	16.2	2187.1	19.845	62.846	0.96185	1.80709
0.25	2142.1	7.8	2134.3	19.979	63.271	0.95539	1.82606

Tested By TM Date 7/30/04 Input Checked By GU Date 8/10/04



# ONE DIMENSIONAL CONSOLIDATION

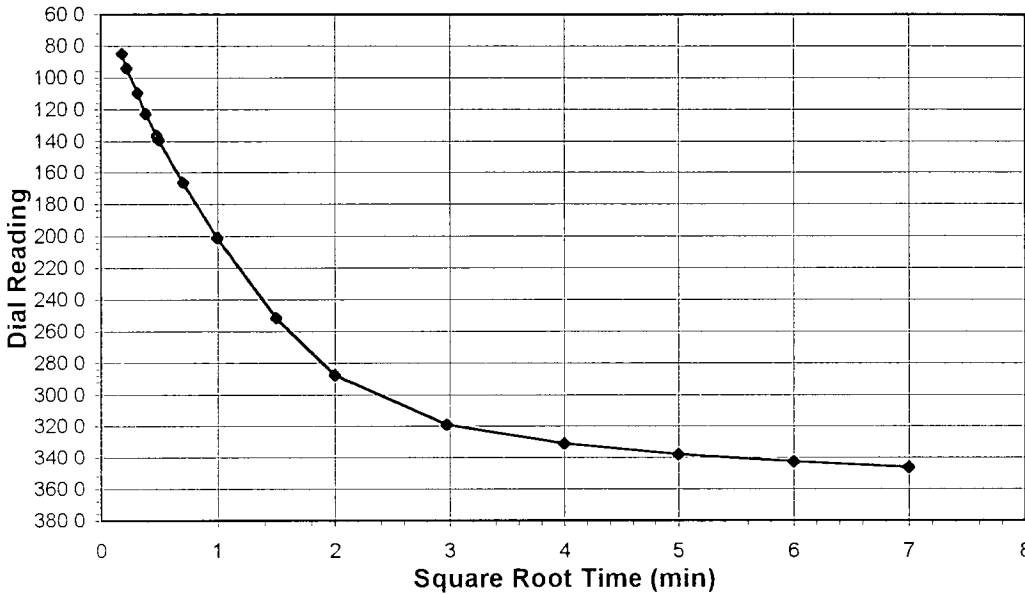
ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE  
 Client Project: GEHR TREATABILITY 204.302  
 Project No.: 2004-221-01  
 Lab ID: 2004-221-01-07

Boring No.:  
 Depth (ft):  
 Sample No.:  
 Visual Description:

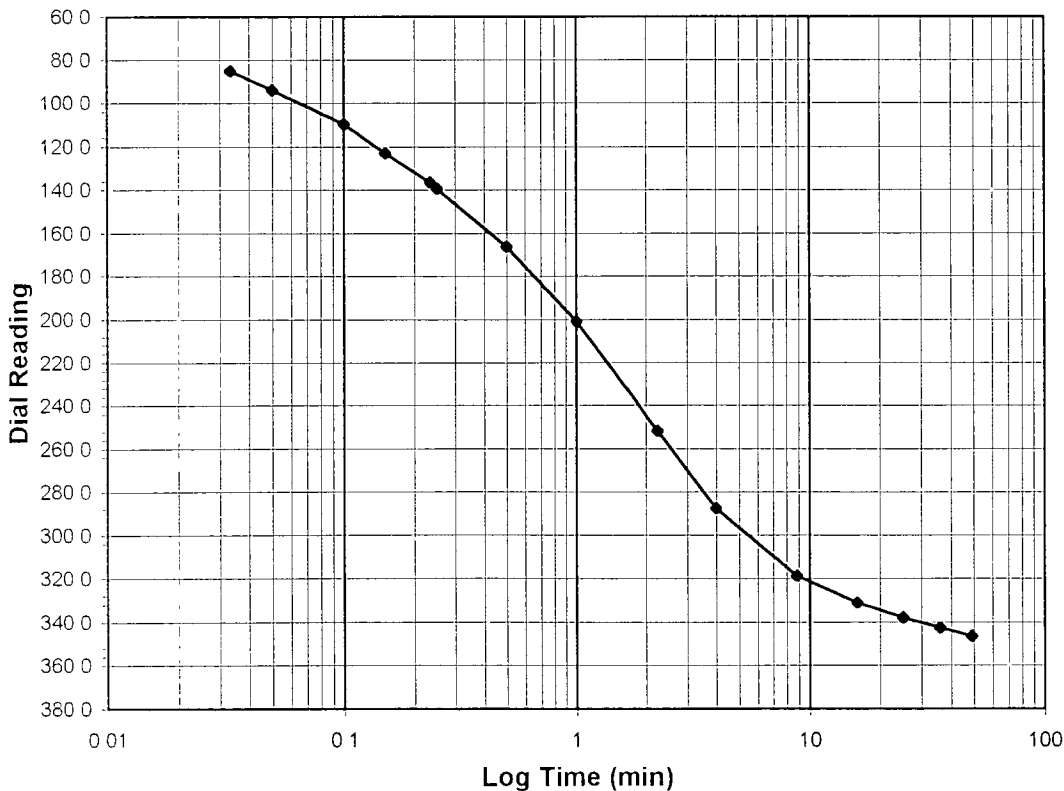
NA  
 NA  
 SS50  
 BROWNISH GRAY  
 STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf): 0-0.25  
 Final Reading (div): 346.5  
 Consolidometer No.: 3  
 1 Division (in): 0.0001  
 Start Date: 7/30/04  
 Start Time: 13.19.23

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<i>0.0</i>
0.03	85.1
0.05	94.2
0.10	109.8
0.15	122.9
0.23	136.4
0.25	139.2
0.50	166.4
1.00	201.0
2.25	251.7
4.00	287.7
8.82	318.9
16.00	331.1
25.00	338.0
36.00	342.8
49.00	346.5



Tested By: TM Date: 7/30/04 Checked By: GU Date: 8/10/04



# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

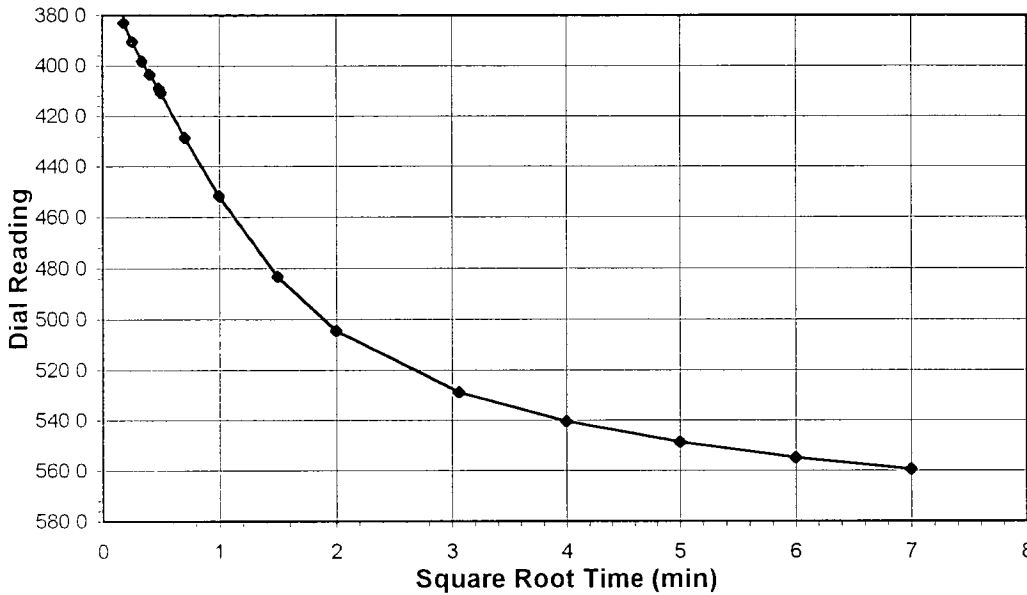
Client: BLASLAND, BOUCK, & LEE  
 Client Project: GEHR TREATABILITY 204.302  
 Project No.: 2004-221-01  
 Lab ID: 2004-221-01-07

Boring No.: NA  
 Depth (ft): NA  
 Sample No.: SS50  
 Visual Description: BROWNISH GRAY STABILIZED MATERIAL

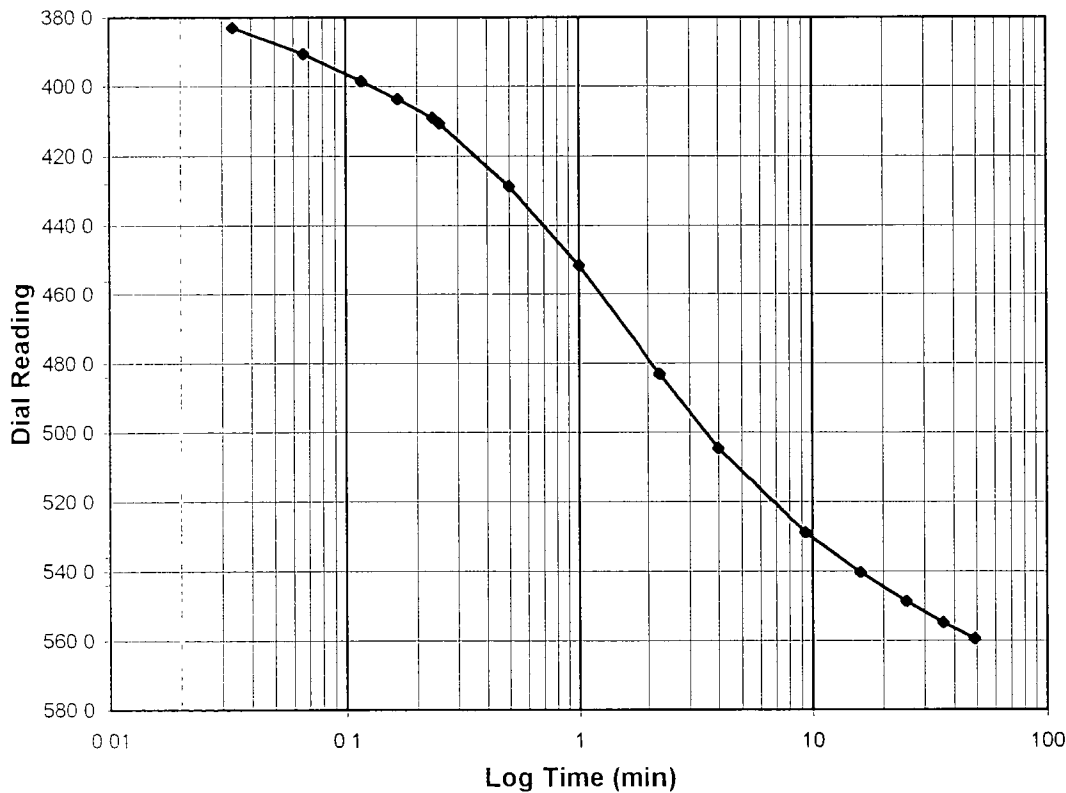
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED

Test Load (tsf): 0.25-0.5  
 Final Reading (div): 559.6  
 Consolidometer No.: 3  
 1 Division (in): 0.0001

Start Date: 7/30/04  
 Start Time: 14:12:01



Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>346.5</b>
0.03	382.9
0.07	390.6
0.12	398.4
0.17	403.7
0.23	409.1
0.25	410.7
0.50	428.6
1.00	451.6
2.25	483.3
4.00	504.7
9.37	529.0
16.00	540.3
25.00	548.7
36.00	554.9
49.00	559.6



Tested By: TM Date: 7/30/04 Checked By: GU Date: 8/10/04



# ONE DIMENSIONAL CONSOLIDATION

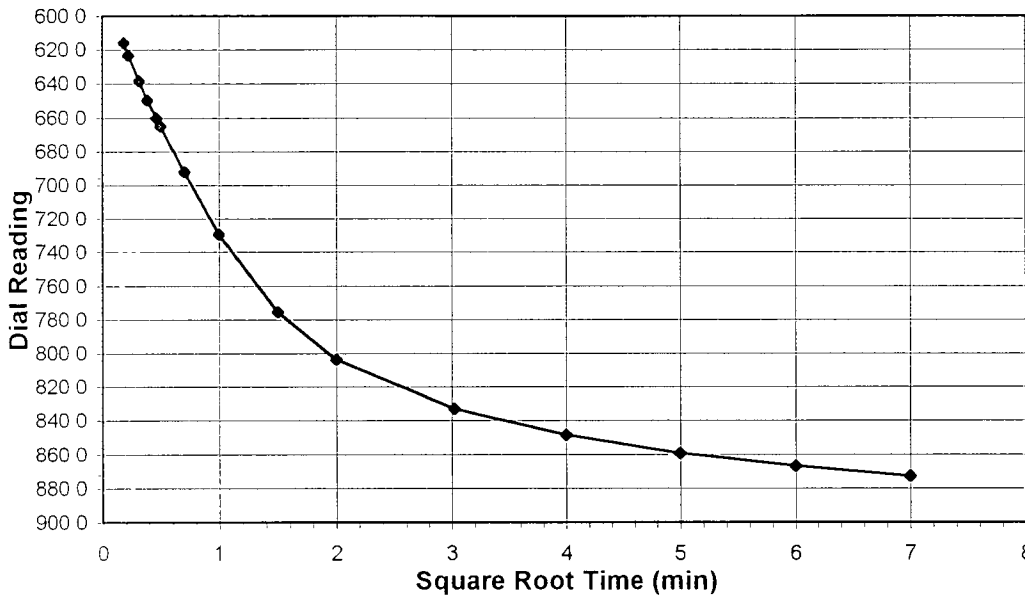
ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE  
 Client Project: GEHR TREATABILITY 204.302  
 Project No: 2004-221-01  
 Lab ID: 2004-221-01-07

Boring No.: NA  
 Depth (ft): NA  
 Sample No.: SS50  
 Visual Description: BROWNISH GRAY STABILIZED MATERIAL

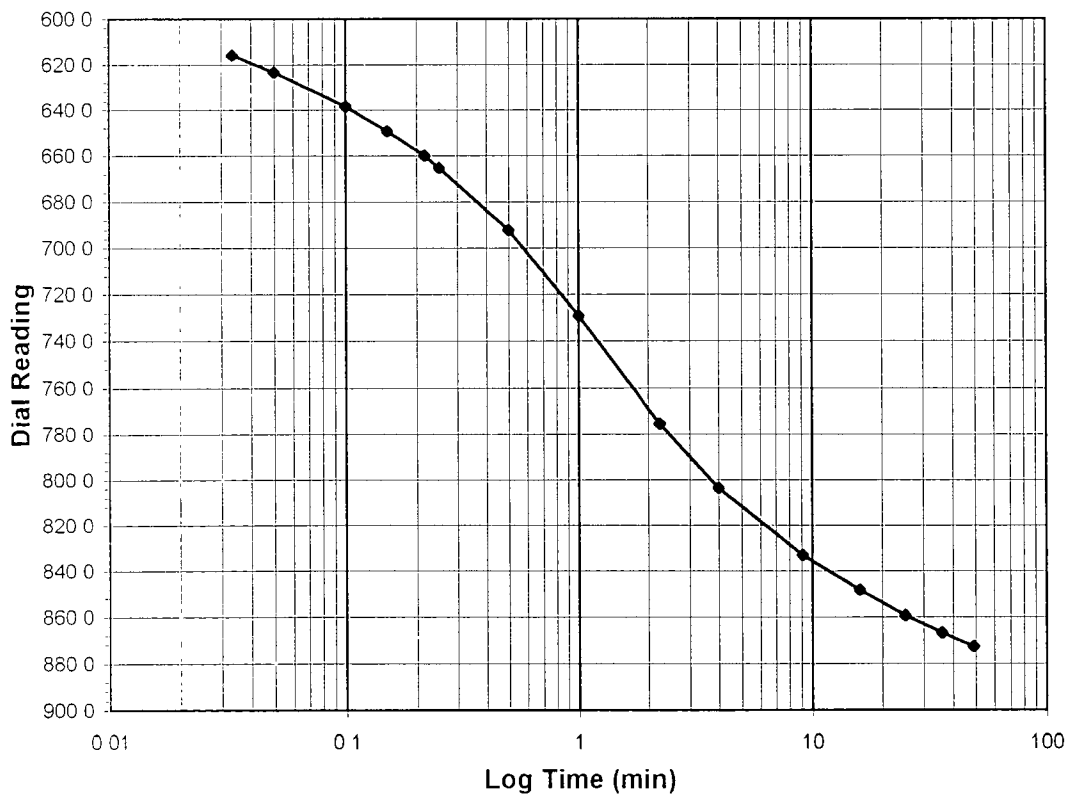
NA  
 NA  
 SS50  
 BROWNISH GRAY  
 STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 0.5-1.0  
 Final Reading (div) 872.8  
 Consolidometer No. 3  
 1 Division (in) 0.0001  
 Start Date 7/30/04  
 Start Time 15:05:23

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>559.6</b>
0.03	615.8
0.05	623.3
0.10	638.3
0.15	649.5
0.22	660.0
0.25	665.2
0.50	692.1
1.00	729.2
2.25	775.5
4.00	803.8
9.11	833.0
16.00	848.5
25.00	859.4
36.02	867.0
49.00	872.8



Tested By TM Date 7/30/04 Checked By GU Date 8/10/04



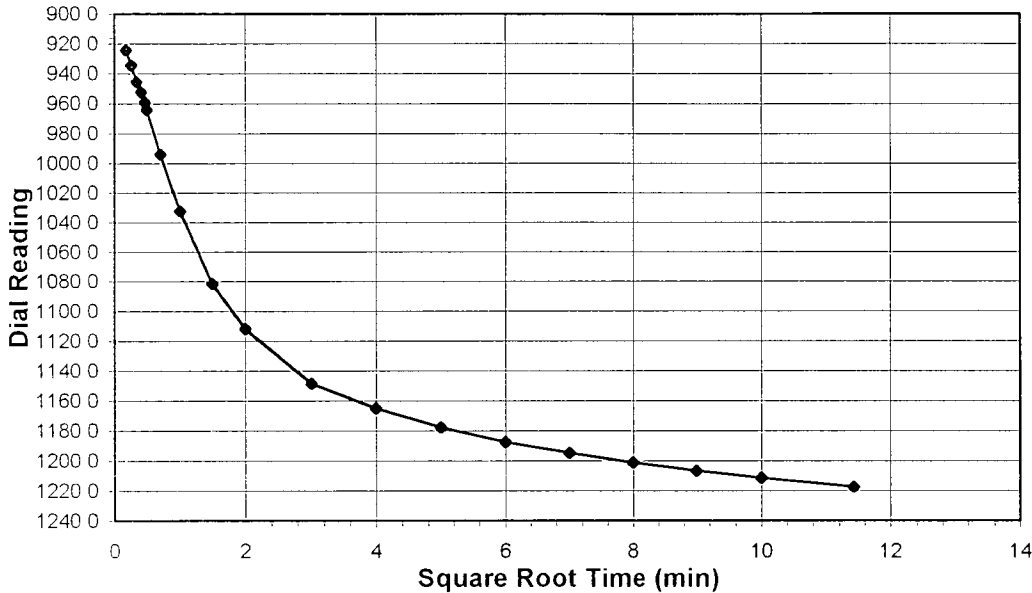
# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE  
 Client Project: GEHR TREATABILITY 204.302  
 Project No: 2004-221-01  
 Lab ID: 2004-221-01-07

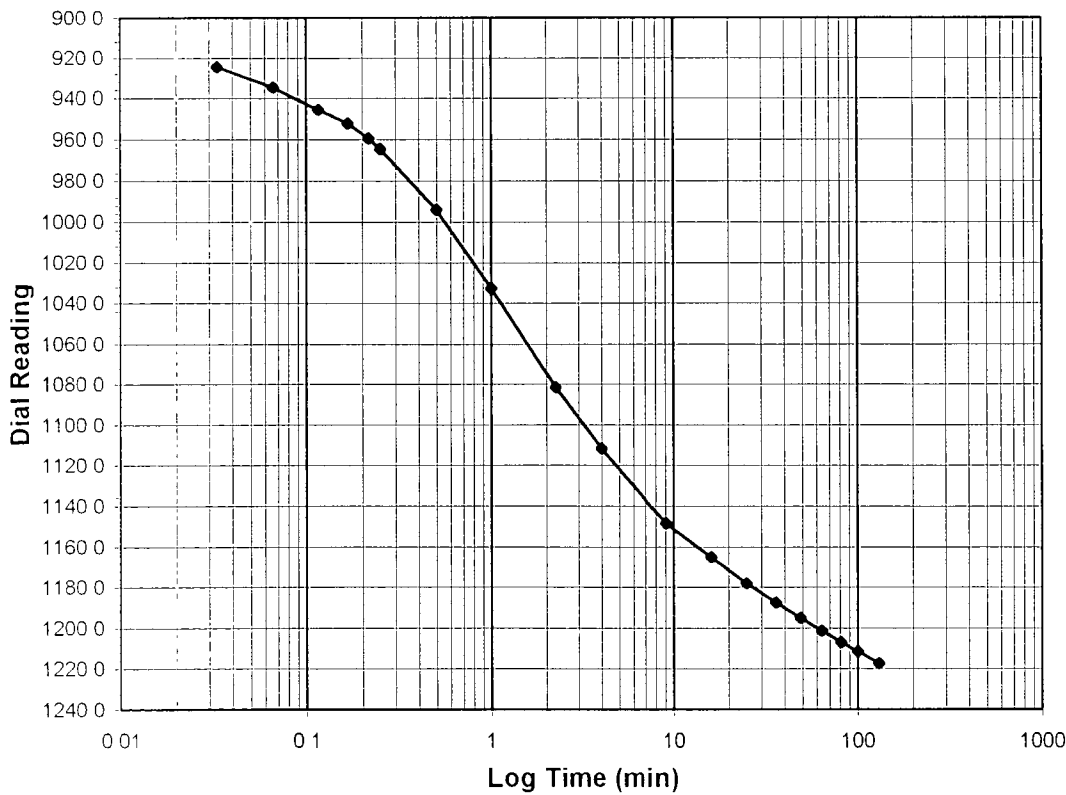
Boring No.: NA  
 Depth (ft): NA  
 Sample No.: SS50  
 Visual Description: BROWNISH GRAY STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf): 1.0-2.0  
 Final Reading (div): 1217.2  
 Consolidometer No.: 3  
 1 Division (in): 0.0001  
 Start Date: 7/31/04  
 Start Time: 6:40:08

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>872.8</b>
0.03	924.5
0.07	934.5
0.12	945.7
0.17	952.3
0.22	959.4
0.25	964.5
0.50	994.1
1.00	1032.6
2.25	1081.6
4.00	1111.8
9.11	1148.4
16.00	1165.0
25.00	1178.0
36.02	1187.4
49.00	1195.0
64.00	1201.4
81.00	1206.9
100.00	1211.3
130.65	1217.2



Tested By: TM Date: 7/31/04 Checked By: GU Date: 8/10/04





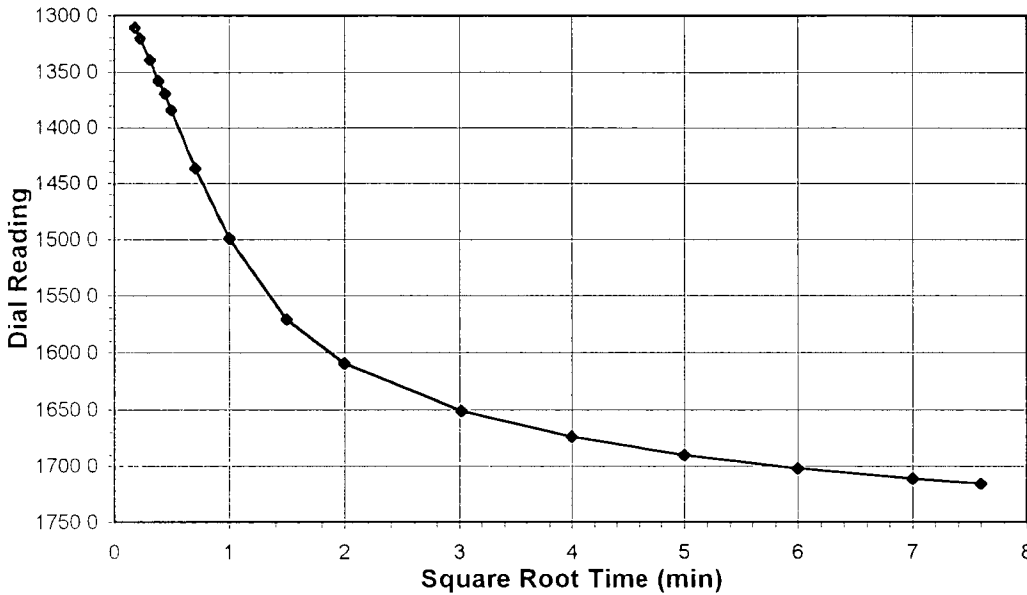
# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE  
 Client Project: GEHR TREATABILITY 204.302  
 Project No: 2004-221-01  
 Lab ID: 2004-221-01-07

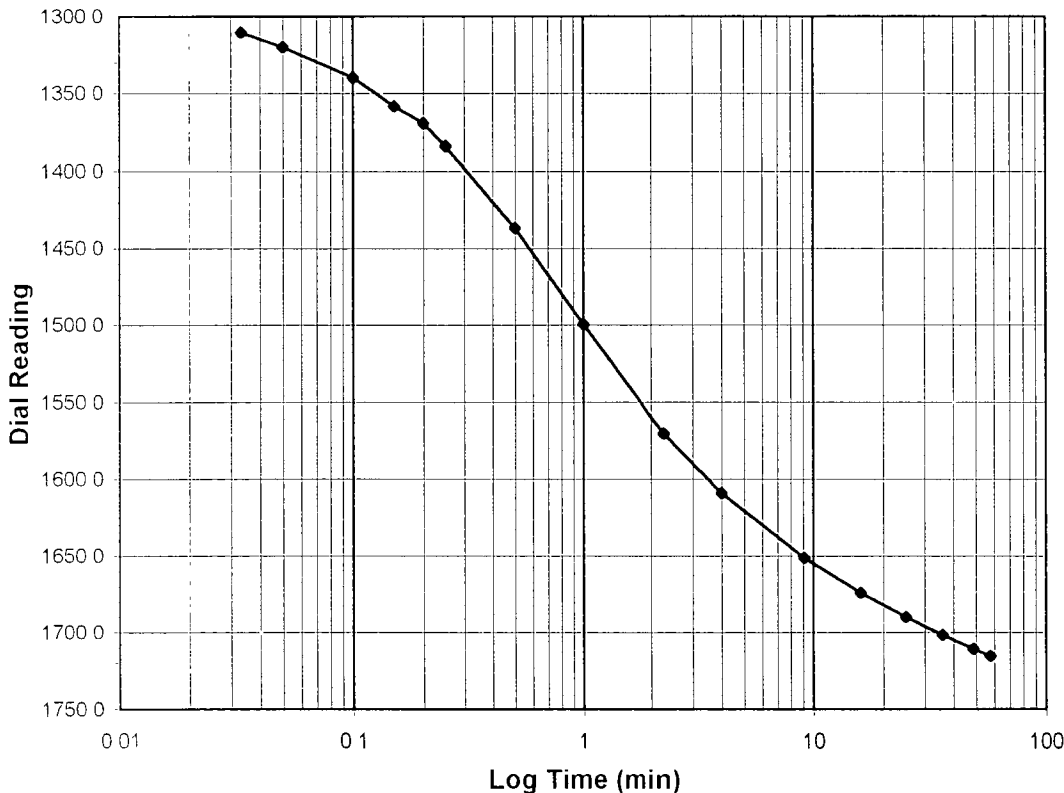
Boring No.: NA  
 Depth (ft): NA  
 Sample No.: SS50  
 Visual Description: BROWNISH GRAY STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf): 2.0-4.0  
 Final Reading (div): 1715.5  
 Consolidometer No.: 3  
 1 Division (in): 0.0001  
 Start Date: 7/31/04  
 Start Time: 8:58:28

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>1217.2</b>
0.03	1310.6
0.05	1320.2
0.10	1339.6
0.15	1358.4
0.20	1369.3
0.25	1383.9
0.50	1436.4
1.00	1499.3
2.25	1570.5
4.00	1609.5
9.13	1651.5
16.00	1674.1
25.00	1690.2
36.00	1701.8
49.00	1710.8
57.80	1715.5



Tested By: TM Date: 7/31/04 Checked By: GU Date: 8/10/04



# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE  
 Client Project: GEHR TREATABILITY 204.302  
 Project No.: 2004-221-01  
 Lab ID: 2004-221-01-07

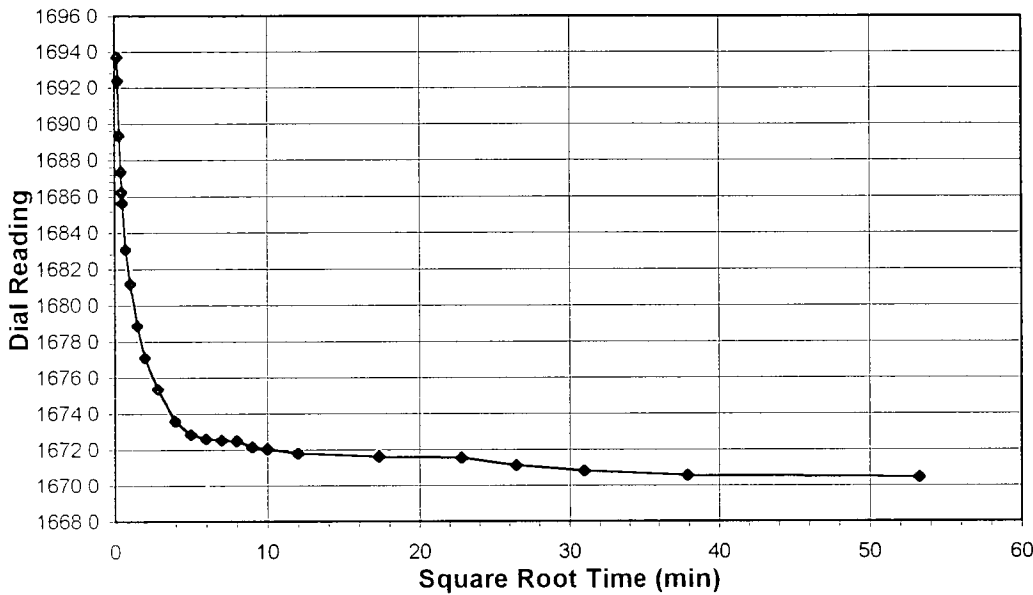
Boring No.:  
 Depth (ft):  
 Sample No.:  
 Visual Description:

NA  
 NA  
 SS50  
 BROWNISH GRAY  
 STABILIZED MATERIAL

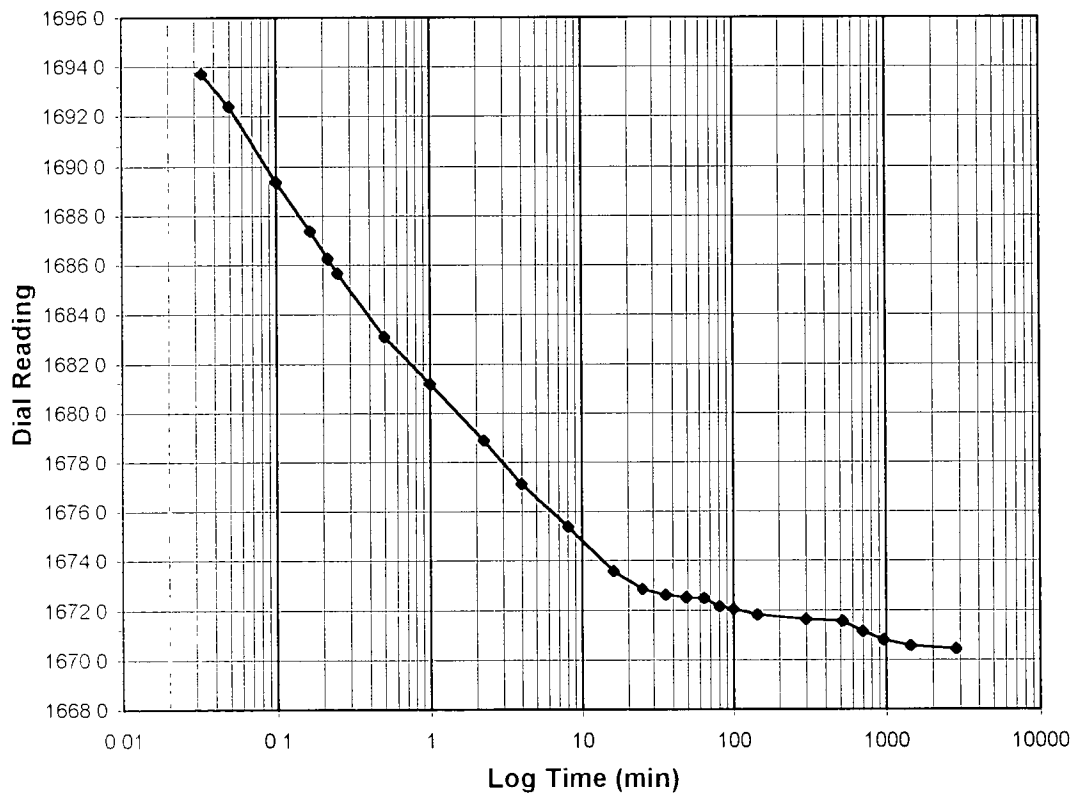
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED

Test Load (tsf) 4.0-1.0  
 Final Reading (div) 1670.4  
 Consolidometer No. 3  
 1 Division (in) 0.0001

Start Date 7/31/04  
 Start Time 10:00:04



Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>1715.5</b>
0.03	1693.7
0.05	1692.4
0.10	1689.4
0.17	1687.4
0.22	1686.3
0.25	1685.7
0.50	1683.1
1.00	1681.2
2.25	1678.9
4.00	1677.1
8.07	1675.4
16.00	1673.6
25.00	1672.9
36.00	1672.6
49.00	1672.5
64.00	1672.5
81.00	1672.1
100.00	1672.0
144.00	1671.8
300.00	1671.6
520.00	1671.6
700.00	1671.1
960.00	1670.8
1440.00	1670.6
2839.87	1670.4



Tested By TM Date 7/31/04 Checked By GU Date 8/10/04



# ONE DIMENSIONAL CONSOLIDATION

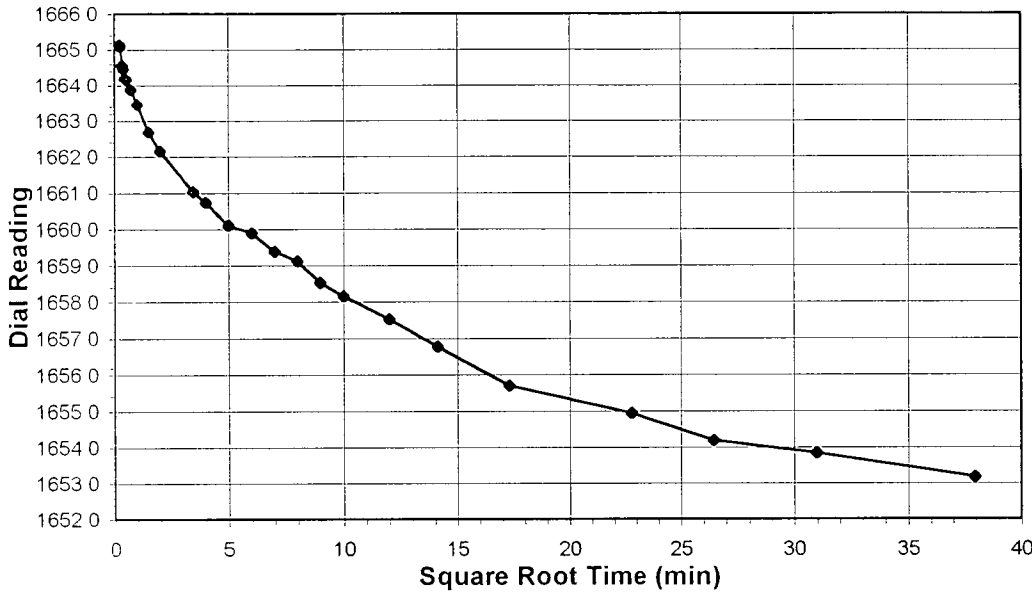
ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE  
 Client Project: GEHR TREATABILITY 204.302  
 Project No.: 2004-221-01  
 Lab ID: 2004-221-01-07

Boring No.: NA  
 Depth (ft): NA  
 Sample No.: SS50  
 Visual Description: BROWNISH GRAY STABILIZED MATERIAL

NA  
 NA  
 SS50  
 BROWNISH GRAY  
 STABILIZED MATERIAL

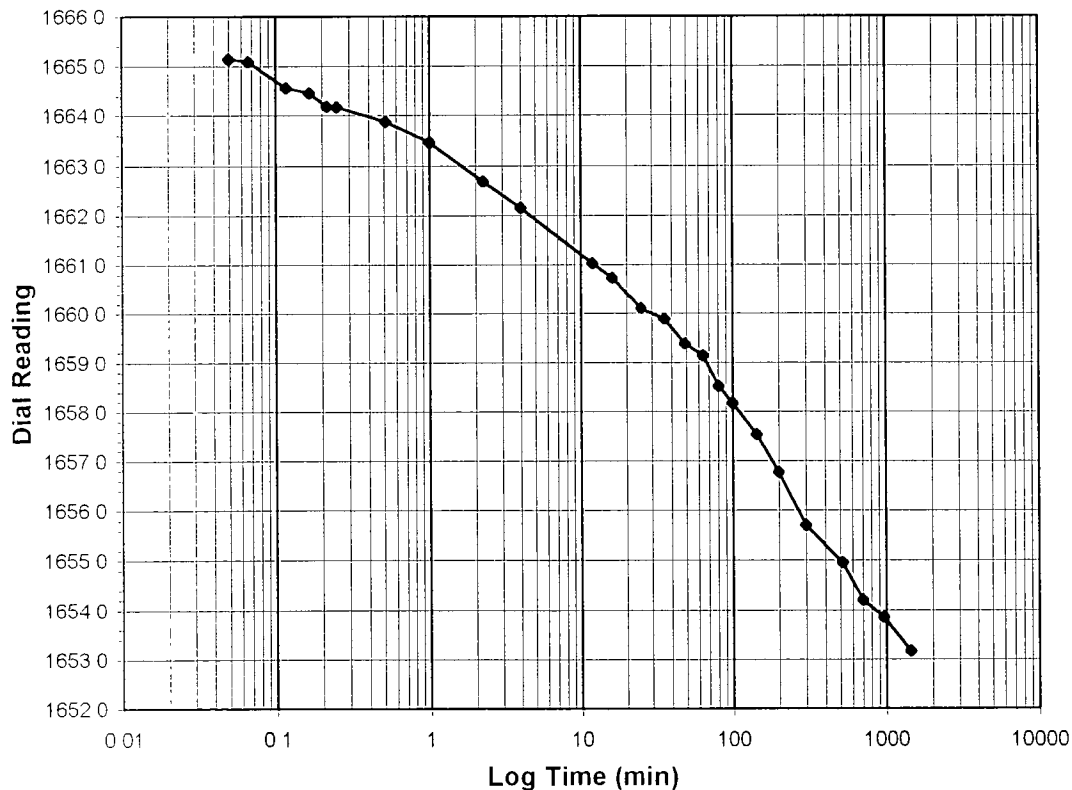
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf): 1.0-0.25  
 Final Reading (div): 1653.2  
 Consolidometer No.: 3  
 1 Division (in): 0.0001

Start Date: 8/2/04  
 Start Time: 9:31 10

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>1670.4</b>
0.05	1665.1
0.07	1665.1
0.12	1664.6
0.17	1664.5
0.22	1664.2
0.25	1664.2
0.52	1663.9
1.00	1663.5
2.25	1662.7
4.00	1662.2
11.87	1661.0
16.00	1660.7
25.00	1660.1
36.00	1659.9
49.00	1659.4
64.00	1659.1
81.00	1658.5
100.00	1658.2
144.00	1657.5
199.02	1656.8
300.00	1655.7
520.02	1655.0
700.00	1654.2
960.02	1653.9
1440.00	1653.2



Tested By: TM Date: 8/2/04 Checked By: GU Date: 8/10/04



# ONE DIMENSIONAL CONSOLIDATION

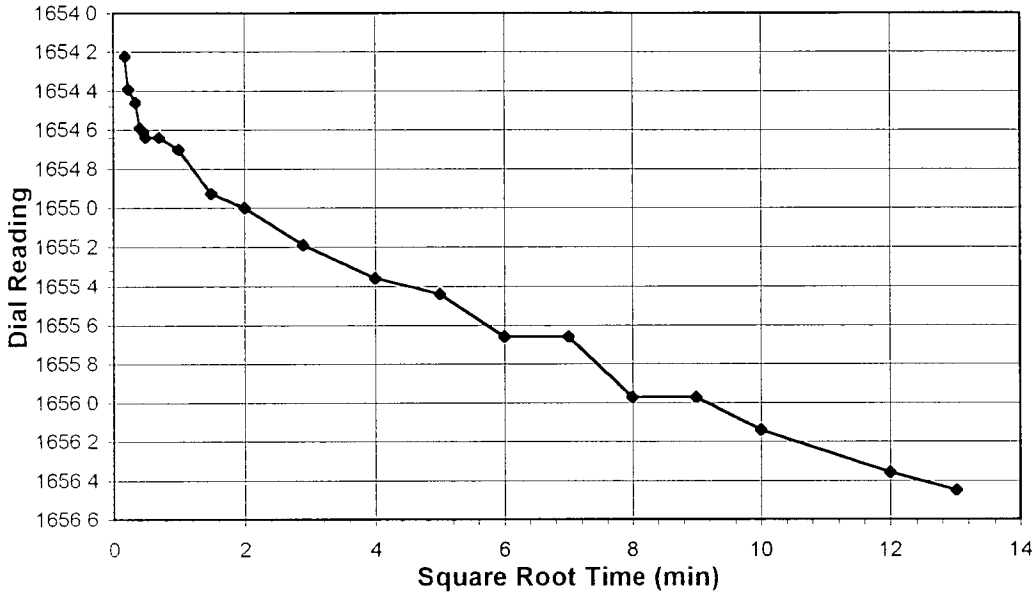
ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE  
 Client Project: GEHR TREATABILITY 204.302  
 Project No: 2004-221-01  
 Lab ID: 2004-221-01-07

Boring No.:  
 Depth (ft):  
 Sample No.:  
 Visual Description:

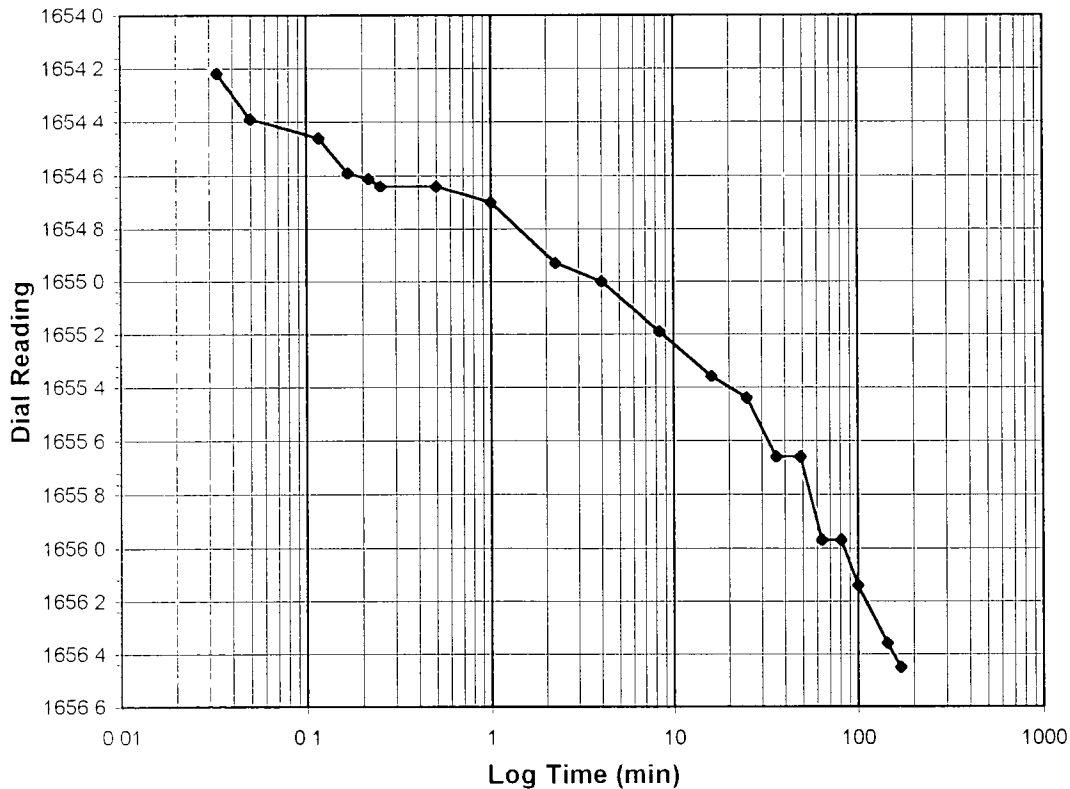
NA  
 NA  
 SS50  
 BROWNISH GRAY  
 STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf): 0.25-0.5  
 Final Reading (div): 1656.5  
 Consolidometer No: 3  
 1 Division (in): 0.0001  
 Start Date: 8/3/04  
 Start Time: 9:39:22

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>1653.2</b>
0.03	1654.2
0.05	1654.4
0.12	1654.5
0.17	1654.6
0.22	1654.6
0.25	1654.6
0.50	1654.6
1.00	1654.7
2.25	1654.9
4.00	1655.0
8.38	1655.2
16.00	1655.4
25.00	1655.4
36.00	1655.7
49.00	1655.7
64.00	1656.0
81.00	1656.0
100.00	1656.1
144.00	1656.4
169.38	1656.5



Tested By: TM Date: 8/3/04 Checked By: GU Date: 8/10/04



# ONE DIMENSIONAL CONSOLIDATION

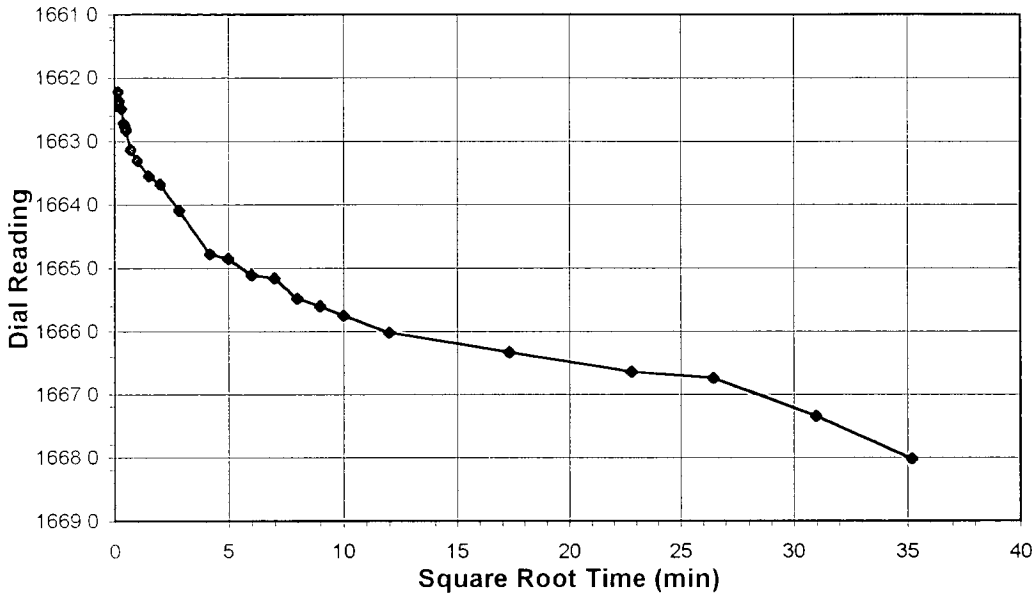
ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE  
 Client Project: GEHR TREATABILITY 204.302  
 Project No: 2004-221-01  
 Lab ID: 2004-221-01-07

Boring No.: NA  
 Depth (ft): NA  
 Sample No.: SS50  
 Visual Description: BROWNISH GRAY STABILIZED MATERIAL

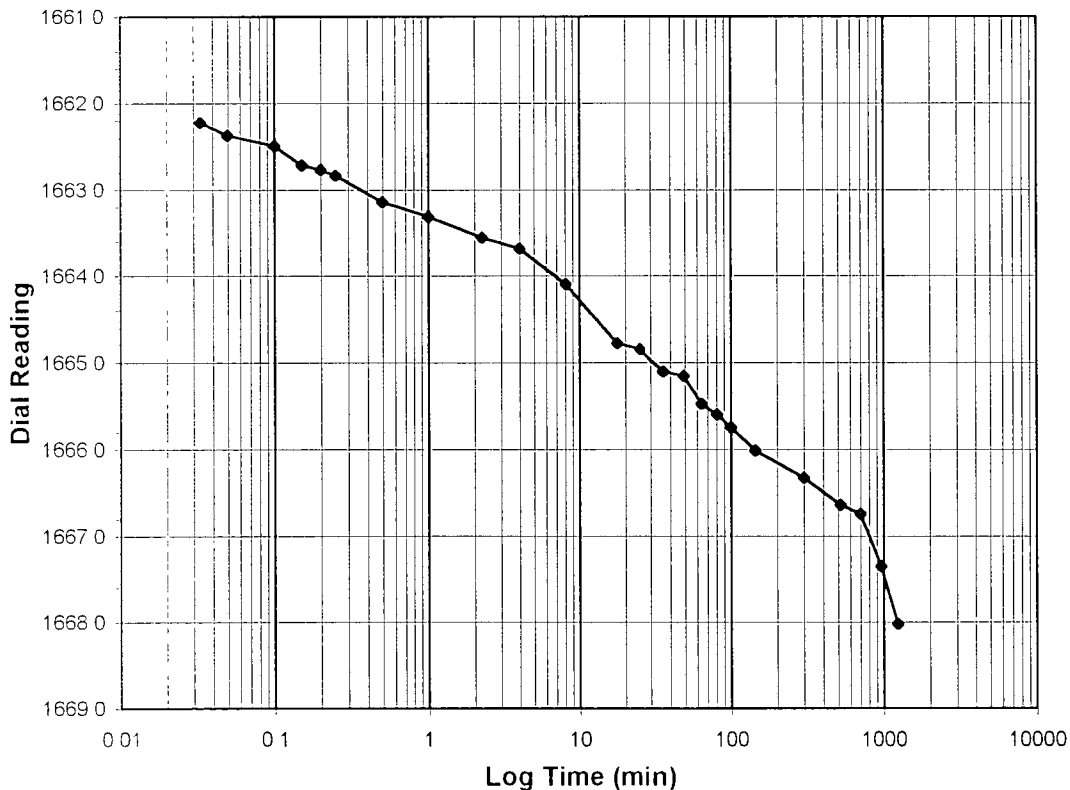
Test Load (tsf): 0.5-1.0  
 Final Reading (div): 1668.0  
 Consolidometer No.: 3  
 1 Division (in): 0.0001

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Start Date: 8/3/04  
 Start Time: 12:37:55

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>1656.5</b>
0.03	1662.2
0.05	1662.4
0.10	1662.5
0.15	1662.7
0.20	1662.8
0.25	1662.8
0.50	1663.1
1.00	1663.3
2.25	1663.6
4.00	1663.7
8.07	1664.1
17.65	1664.8
25.00	1664.9
36.00	1665.1
49.00	1665.2
64.00	1665.5
81.00	1665.6
100.00	1665.8
144.00	1666.0
300.00	1666.3
520.00	1666.6
700.00	1666.7
960.00	1667.4
1238.95	1668.0



Tested By: TM Date: 8/3/04 Checked By: GO Date: 5/10/14

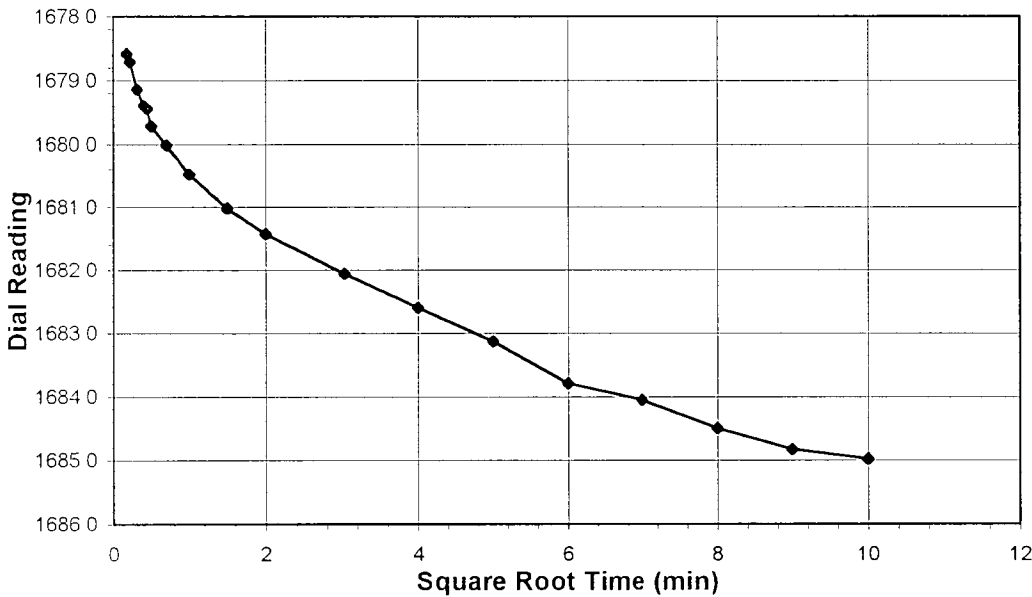


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

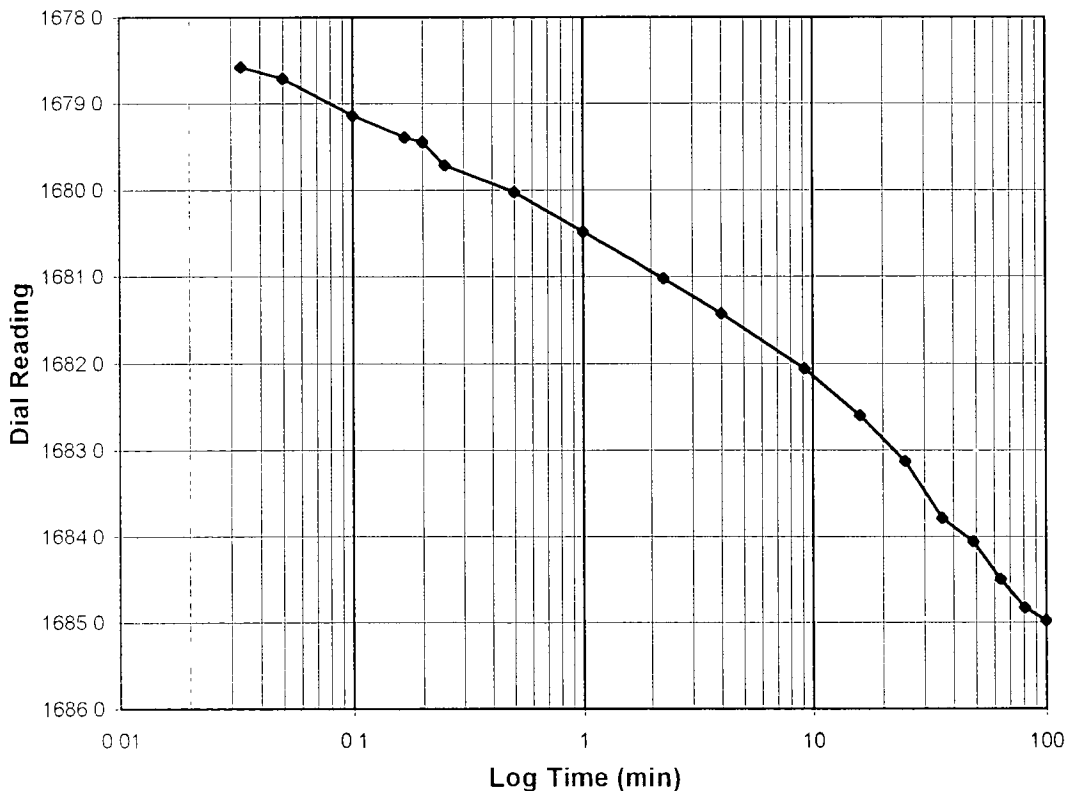
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-01	Sample No.	SS50
Lab ID	2004-221-01-07	Visual Description	BROWNISH GRAY STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	1.0-2.0
Final Reading (div)	1685.0
Consolidometer No.	3
1 Division (in)	0.0001
Start Date	8/4/04
Start Time	9:26.47

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>1688.0</b>
0.03	1678.6
0.05	1678.7
0.10	1679.1
0.17	1679.4
0.20	1679.4
0.25	1679.7
0.50	1680.0
1.00	1680.5
2.25	1681.0
4.00	1681.4
9.18	1682.1
16.00	1682.6
25.00	1683.1
36.00	1683.8
49.00	1684.1
64.00	1684.5
81.02	1684.8
100.00	1685.0



Tested By *TM* Date *8/4/04* Checked By *GO* Date *8/10/04*



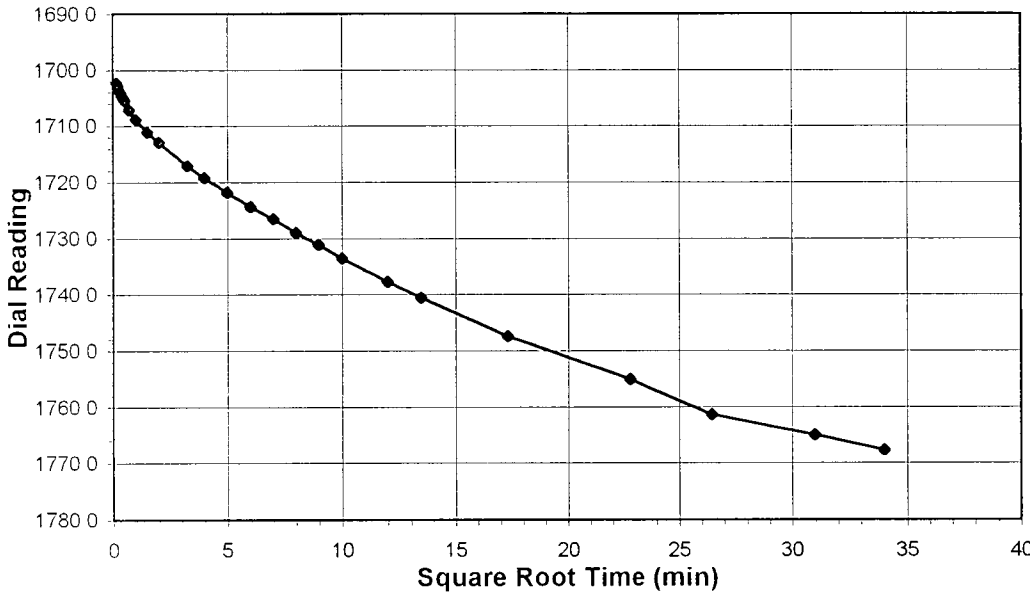
# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE  
 Client Project: GEHR TREATABILITY 204.302  
 Project No: 2004-221-01  
 Lab ID: 2004-221-01-07

Boring No.: NA  
 Depth (ft): NA  
 Sample No.: SS50  
 Visual Description: BROWNISH GRAY STABILIZED MATERIAL

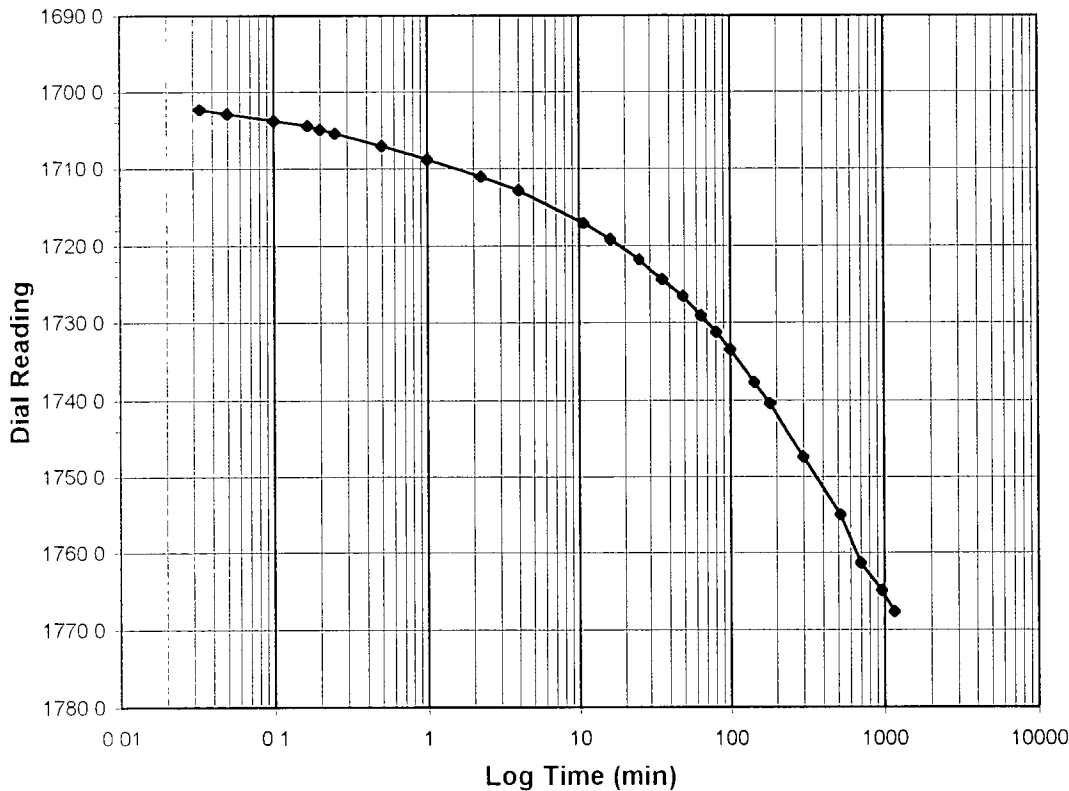
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf): 2.0-4.0  
 Final Reading (div): 1767.7  
 Consolidometer No.: 3  
 1 Division (in): 0.0001

Start Date: 8/5/04  
 Start Time: 9:48:48

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>1685.0</b>
0.03	1702.3
0.05	1702.9
0.10	1703.8
0.17	1704.5
0.20	1705.0
0.25	1705.5
0.50	1707.1
1.00	1708.8
2.25	1711.1
4.00	1712.8
10.67	1717.1
16.00	1719.2
25.00	1721.8
36.00	1724.4
49.00	1726.6
64.00	1729.0
81.00	1731.2
100.00	1733.5
144.00	1737.7
181.13	1740.5
300.00	1747.5
520.00	1755.1
700.00	1761.4
960.00	1765.0
1158.22	1767.7



Tested By: TM Date: 8/5/04 Checked By: GU Date: 8/10/04



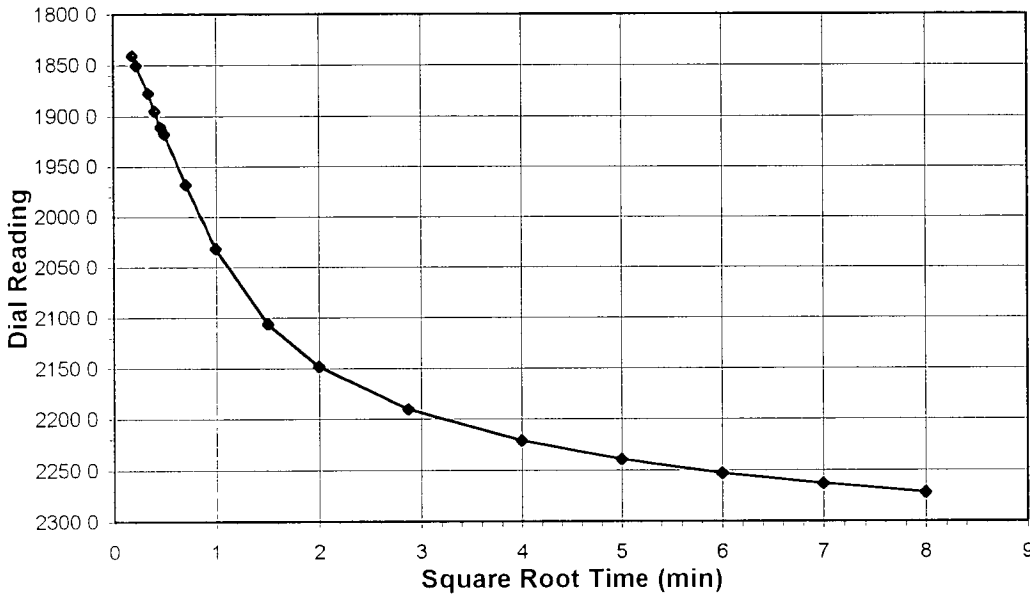
# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client **BLASLAND, BOUCK, & LEE**  
 Client Project **GEHR TREATABILITY 204.302**  
 Project No **2004-221-01**  
 Lab ID **2004-221-01-07**

Boring No. **NA**  
 Depth (ft) **NA**  
 Sample No. **SS50**  
 Visual Description **BROWNISH GRAY STABILIZED MATERIAL**

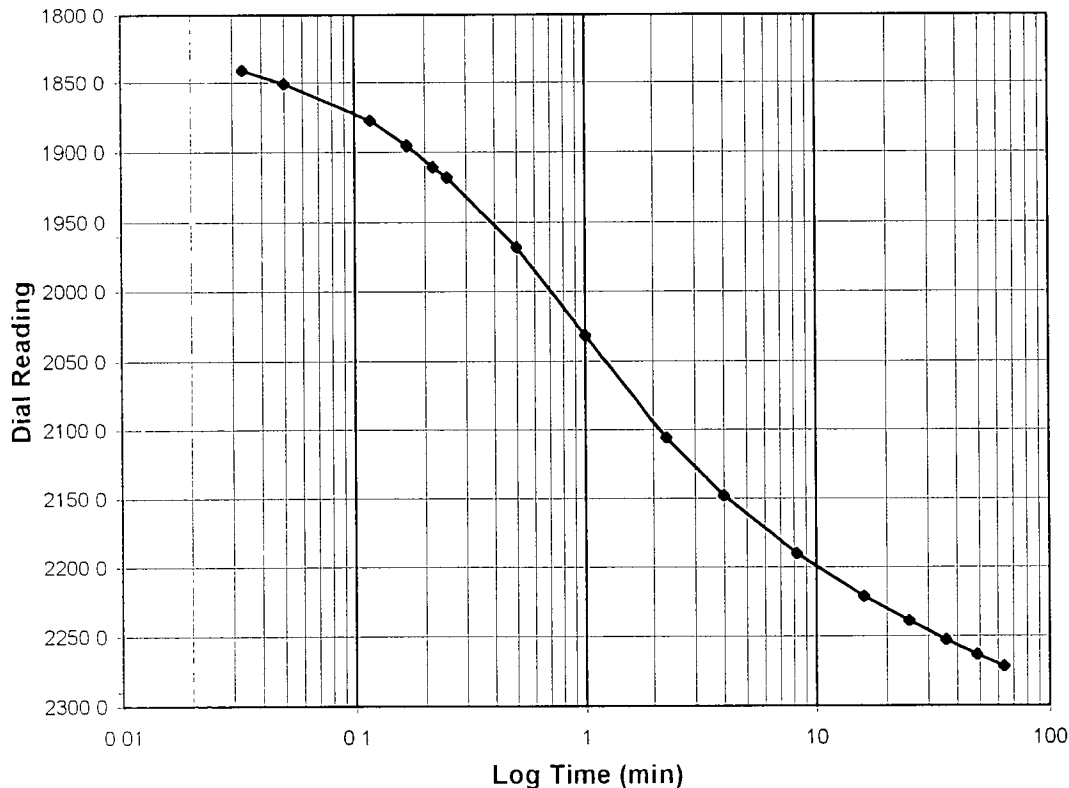
**Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED**



Test Load (tsf) **4.0-8.0**  
 Final Reading (div) **2271.7**  
 Consolidometer No. **3**  
 1 Division (in) **0.0001**

Start Date **8/6/04**  
 Start Time **5:21.55**

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>1767.7</b>
0.03	1840.9
0.05	1850.9
0.12	1877.7
0.17	1895.5
0.22	1910.7
0.25	1917.7
0.50	1968.0
1.00	2031.6
2.27	2106.3
4.00	2148.2
8.25	2190.2
16.00	2221.3
25.00	2239.1
36.00	2252.7
49.00	2263.3
64.00	2271.7



Tested By **TM** Date **8/6/04** Checked By **GU** Date **8/10/04**





# ONE DIMENSIONAL CONSOLIDATION

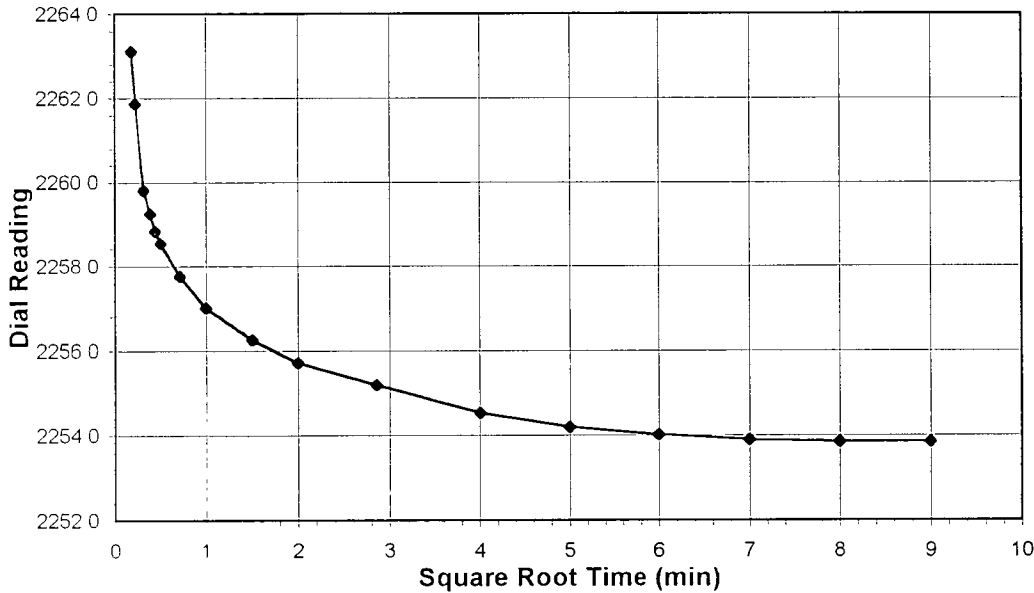
ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE  
 Client Project: GEHR TREATABILITY 204.302  
 Project No: 2004-221-01  
 Lab ID: 2004-221-01-07

Boring No.:  
 Depth (ft):  
 Sample No.:  
 Visual Description:

NA  
 NA  
 SS50  
 BROWNISH GRAY  
 STABILIZED MATERIAL

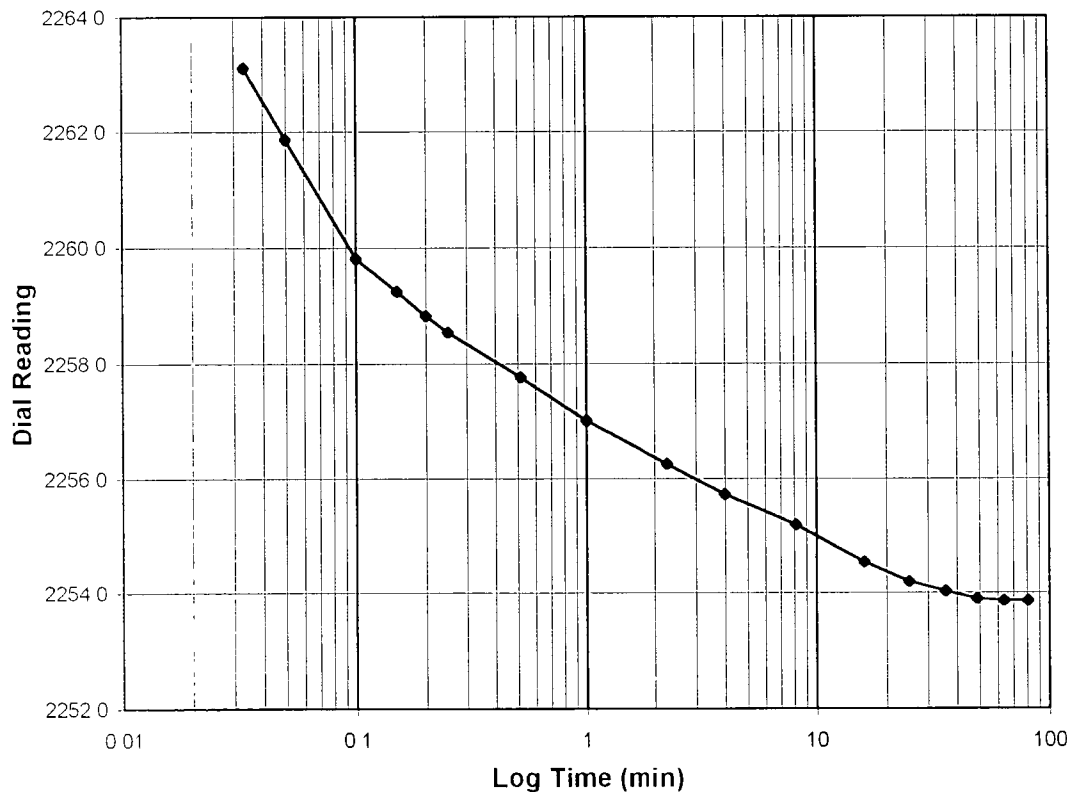
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf): 8.0-4.0  
 Final Reading (div): 2253.9  
 Consolidometer No.: 3  
 1 Division (in): 0.0001

Start Date: 8/6/04  
 Start Time: 6:33:20

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<i>2271.7</i>
0.03	2263.1
0.05	2261.9
0.10	2259.8
0.15	2259.3
0.20	2258.8
0.25	2258.5
0.52	2257.8
1.00	2257.0
2.25	2256.3
4.00	2255.7
8.17	2255.2
16.02	2254.5
25.00	2254.2
36.00	2254.0
49.00	2253.9
64.00	2253.9
81.00	2253.9



Tested By: TM Date: 8/6/04 Checked By: GU Date: 8/10/04



# ONE DIMENSIONAL CONSOLIDATION

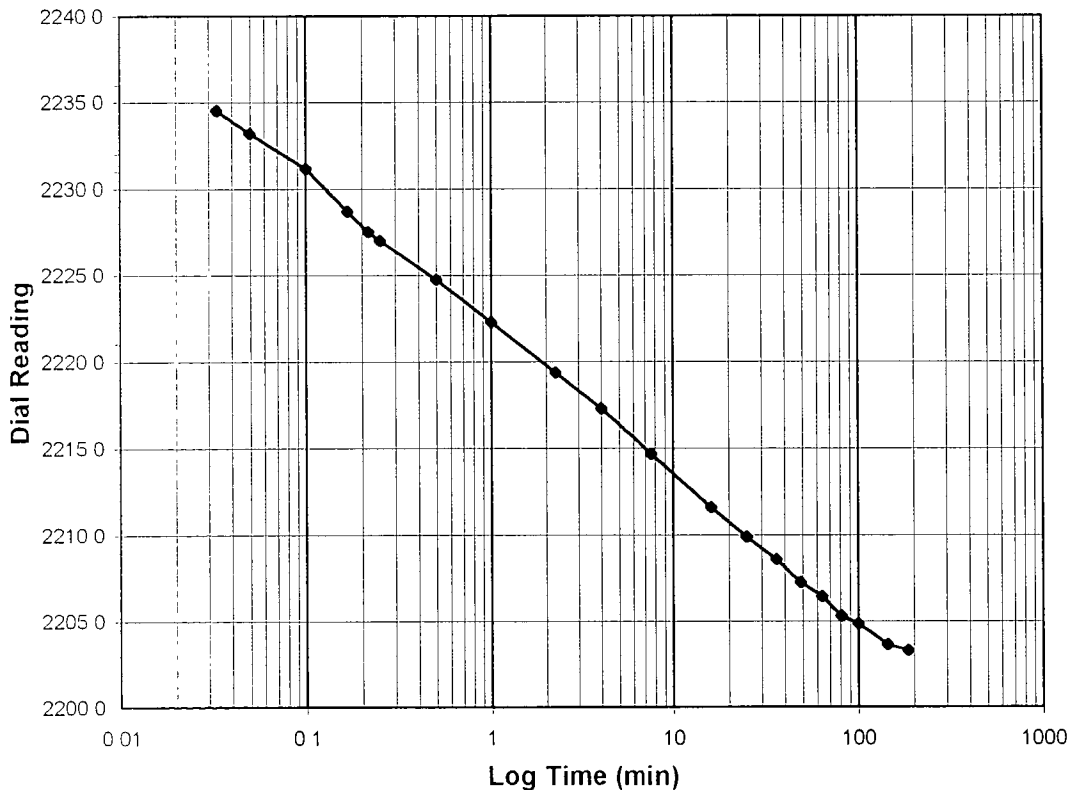
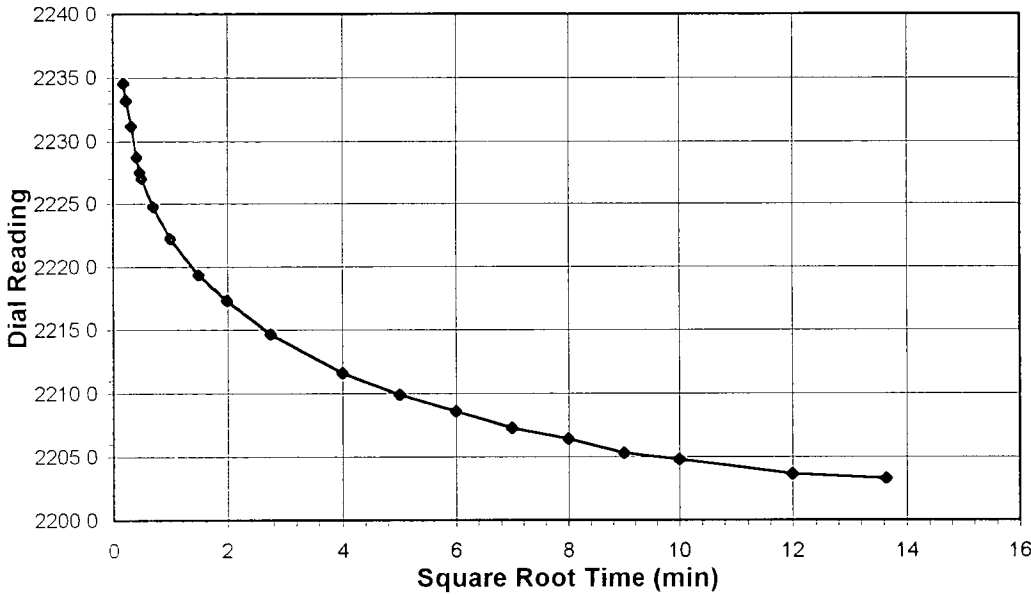
ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-01	Sample No.	SS50
Lab ID	2004-221-01-07	Visual Description	BROWNISH GRAY STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED

Test Load (tsf)	4.0-1.0
Final Reading (div)	2203.3
Consolidometer No.	3
1 Division (in)	0.0001
Start Date	8/6/04
Start Time	8:08:01

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>2253.9</b>
0.03	2234.5
0.05	2233.2
0.10	2231.2
0.17	2228.7
0.22	2227.5
0.25	2227.0
0.50	2224.8
1.00	2222.3
2.25	2219.3
4.00	2217.3
7.62	2214.7
16.00	2211.6
25.00	2209.9
36.00	2208.6
49.00	2207.3
64.00	2206.4
81.00	2205.3
100.00	2204.8
144.00	2203.6
186.10	2203.3



Tested By TM Date 8/6/04 Checked By GU Date 8/10/04



# ONE DIMENSIONAL CONSOLIDATION

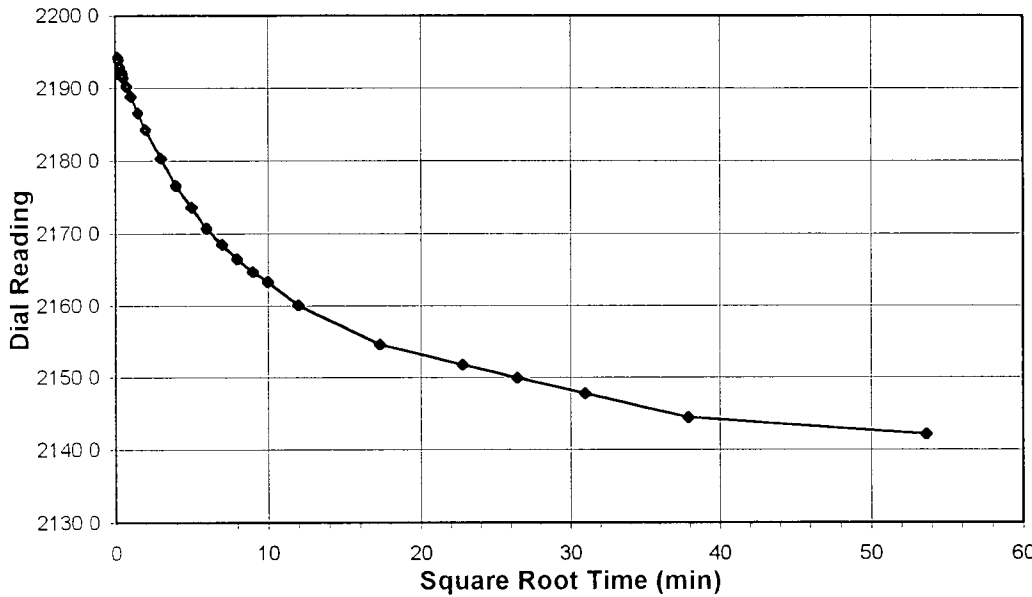
ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE  
 Client Project: GEHR TREATABILITY 204.302  
 Project No.: 2004-221-01  
 Lab ID: 2004-221-01-07

Boring No.:  
 Depth (ft):  
 Sample No.:  
 Visual Description:

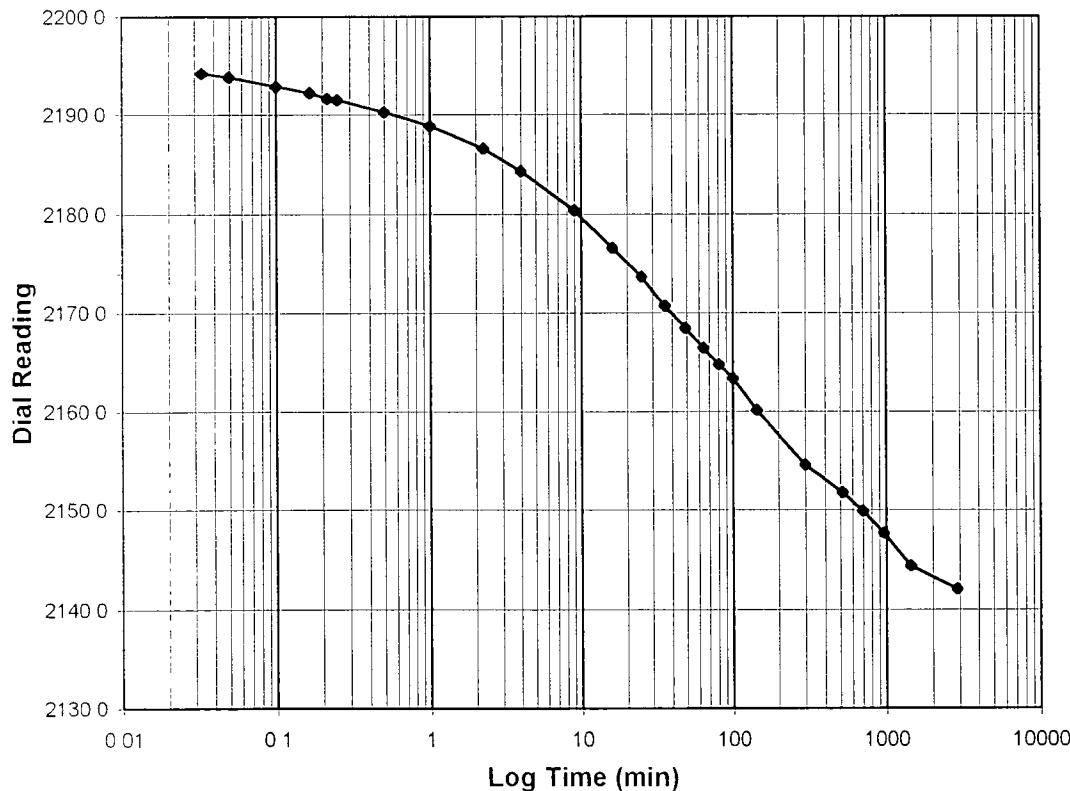
NA  
 NA  
 SS50  
 BROWNISH GRAY  
 STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 1.0-0.25  
 Final Reading (div) 2142.1  
 Consolidometer No. 3  
 1 Division (in) 0.0001  
 Start Date 8/6/04  
 Start Time 11:48:51

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>2203.3</b>
0.03	2194.2
0.05	2193.8
0.10	2192.9
0.17	2192.2
0.22	2191.7
0.25	2191.5
0.50	2190.3
1.00	2188.9
2.25	2186.6
4.00	2184.3
9.02	2180.4
16.00	2176.6
25.02	2173.6
36.00	2170.7
49.00	2168.5
64.00	2166.5
81.00	2164.8
100.00	2163.3
144.00	2160.1
300.00	2154.5
520.00	2151.8
700.00	2149.9
960.00	2147.7
1440.00	2144.4
2880.00	2142.1



Tested By TM Date 8/6/04 Checked By GU Date 8/10/04

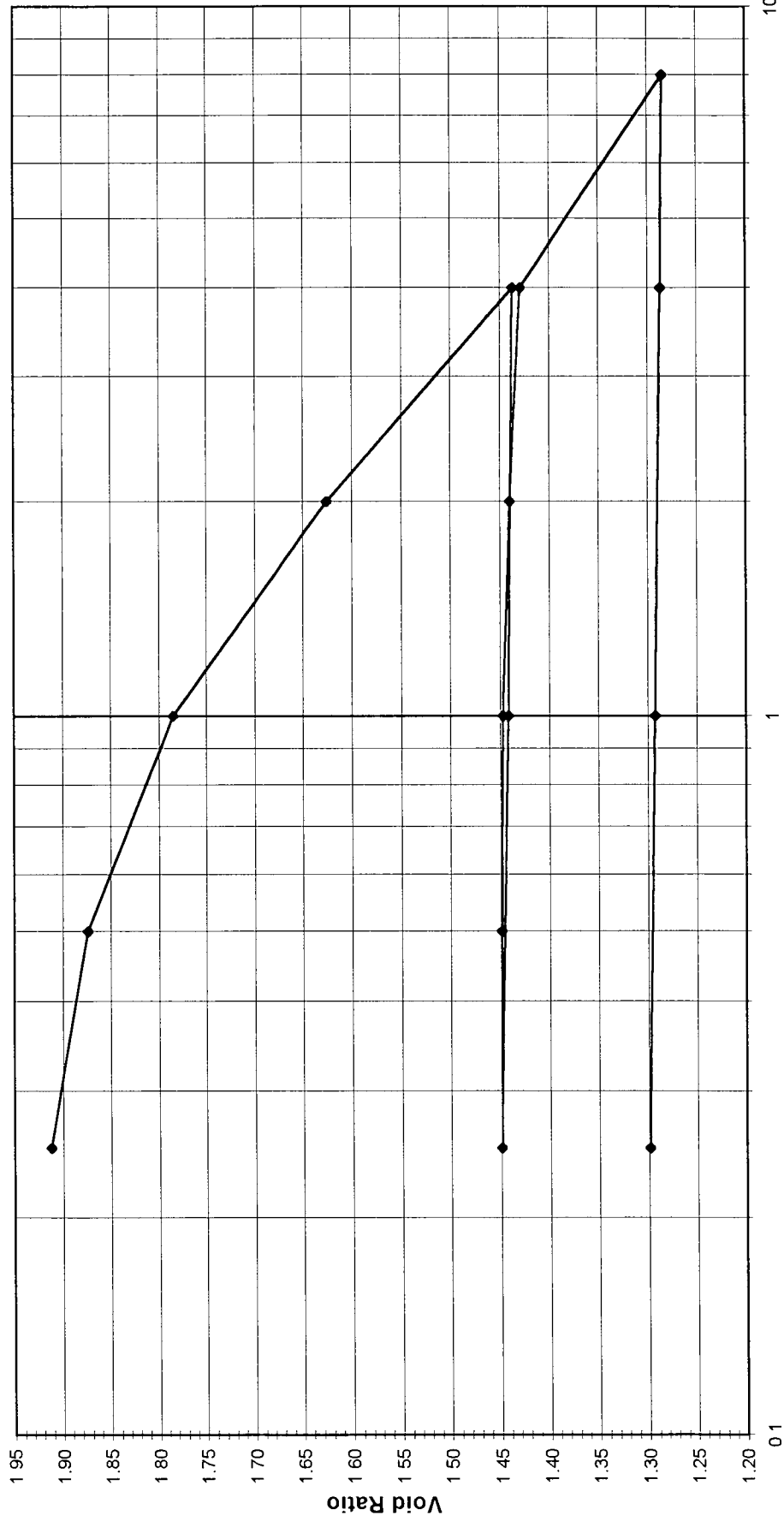


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 / AASHTO T216-03 (SOP-S24)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Reference	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-01	Sample No.	SS17
Lab ID	2004-221-01-08	Visual Description	BROWNISH GRAY STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Log P (tsf)

Tested By TM Date 8/3/04 Approved By DB Date 8/13/04



**ONE DIMENSIONAL CONSOLIDATION**

ASTM D 2435-96 / AASHTO T216-03 (SOP-S24)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Reference	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-01	Sample No.	SS17
Lab ID	2004-221-01-08	Visual Description	BROWNISH GRAY STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED

**Consolidometer No.** 2

**1 Division** = 0.0001 (in)

**Sample Properties**

	<u>Initial</u>	<u>Final</u>
<i>Water Content</i>		
Tare Number	40	1399
Wt. Tare & WS (gm)	286.68	144.72
Wt. Tare & DS (gm)	211.88	111.20
Wt. Water (gm)	74.80	33.52
Wt. Tare (gm)	101.54	38.18
Wt. DS (gm)	110.34	73.02
Water Content (%)	67.79	45.91

*Sample Parameters*

Sample Diameter (in)	2.5	2.5
Sample Height (in)	1	0.777
Sample Volume (cc)	80.44	62.47
Wt. Wet Sample + Ring (gm)	267.90	251.84
Wt. of Ring (gm)	144.80	144.80
Wt. of Wet Sample (gm)	123.10	107.04
Wet Density (pcf)	95.49	106.92
Wet Density (g/cc)	1.53	1.71
Water Content (%)	67.79	45.91
Wt. of Dry Sample (gm)	73.37	73.37
Dry Density (pcf)	56.91	73.28
Dry Density (g/cc)	0.91	1.17
Void Ratio	1.9604	1.2990
Saturation (%)	93.37	95.41
Specific Gravity	2.70	Assumed

**Test Data Summary**

Applied Pressure (tsf)	Final Reading (div)	Machine Deflection (div)	Corrected Reading (div)	Height of Sample (mm)	Volume (cc)	Dry Density (g/cc)	Void Ratio
Seating	0	0	0	25.400	80.440	0.91205	1.96036
0.25	163.4	0.1	163.3	24.985	79.126	0.92719	1.91201
0.5	293.2	1.6	291.6	24.659	78.094	0.93944	1.87404
1	601.7	8.6	593.1	23.893	75.669	0.96956	1.78477
2	1154.5	22.8	1131.7	22.525	71.336	1.02845	1.62532
4	1805.0	37.5	1767.5	20.911	66.222	1.10787	1.43712
1	1769.5	17.4	1752.1	20.950	66.346	1.10580	1.44166
0.25	1727.9	1.8	1726.1	21.016	66.555	1.10232	1.44938
0.5	1732.5	4.0	1728.5	21.010	66.536	1.10264	1.44867
1	1745.6	12.3	1733.3	20.997	66.497	1.10328	1.44724
2	1783.2	24.3	1758.9	20.932	66.291	1.10671	1.43965
4	1831.8	38.2	1793.6	20.844	66.012	1.11139	1.42940
8	2335.5	53.2	2282.3	19.603	62.081	1.18177	1.28471
4	2320.4	46.4	2274.0	19.624	62.148	1.18049	1.28718
1	2280.2	24.6	2255.6	19.671	62.296	1.17769	1.29262
0.25	2237.4	3.4	2234.0	19.726	62.470	1.17441	1.29902

Tested By TM Date 8/3/04 Input Checked By CS Date 8/13/04

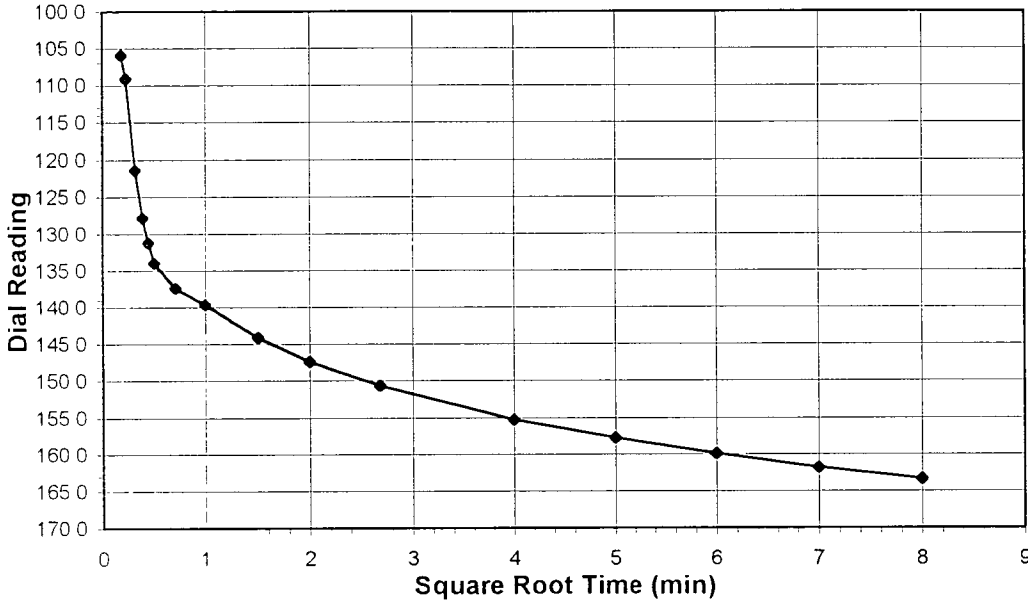


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-90 (SOP-S24A)

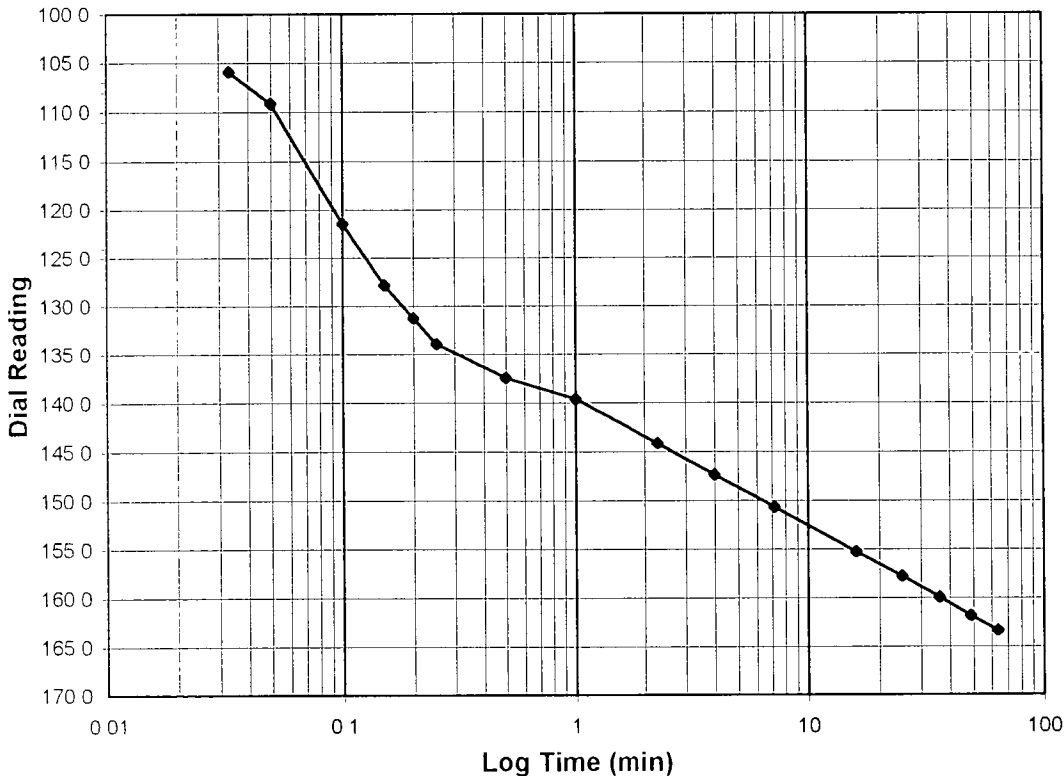
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-01	Sample No.	SS17
Lab ID	2004-221-01-08	Visual Description	BROWNISH GRAY STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0-0.25
Final Reading (div)	163.4
Consolidometer No.	2
1 Division (in)	0.0001
Start Date	8/3/04
Start Time	12.25:13

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<i>0.0</i>
0.03	105.9
0.05	109.2
0.10	121.4
0.15	127.8
0.20	131.3
0.25	134.0
0.50	137.4
1.00	139.6
2.27	144.1
4.00	147.4
7.18	150.7
16.00	155.3
25.00	157.8
36.00	160.0
49.00	161.9
64.00	163.4



Tested By *TM* Date *8/3/04* Checked By *GO* Date *8/13/04*

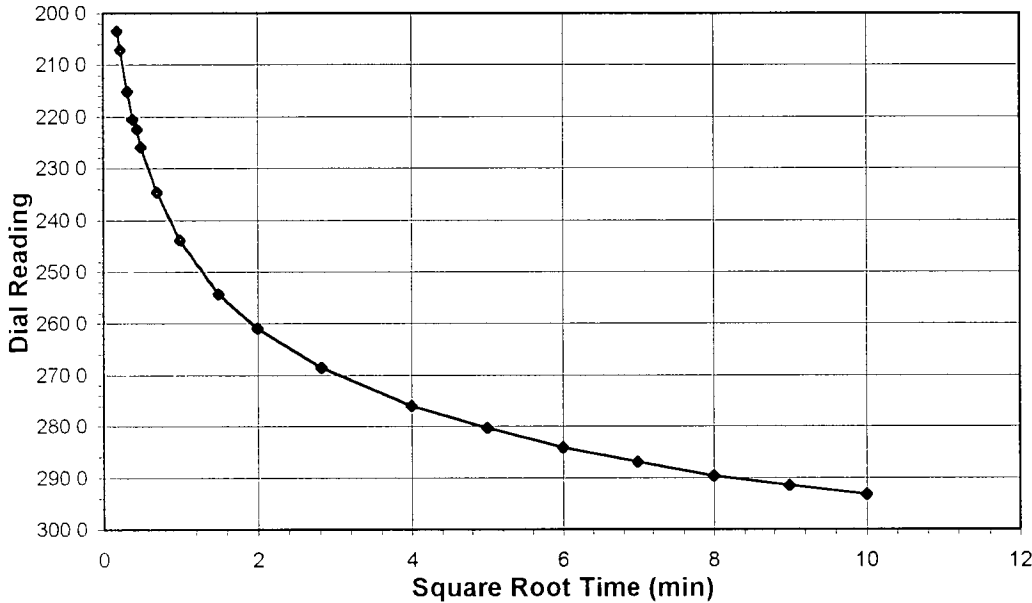


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-90 (SOP-S24A)

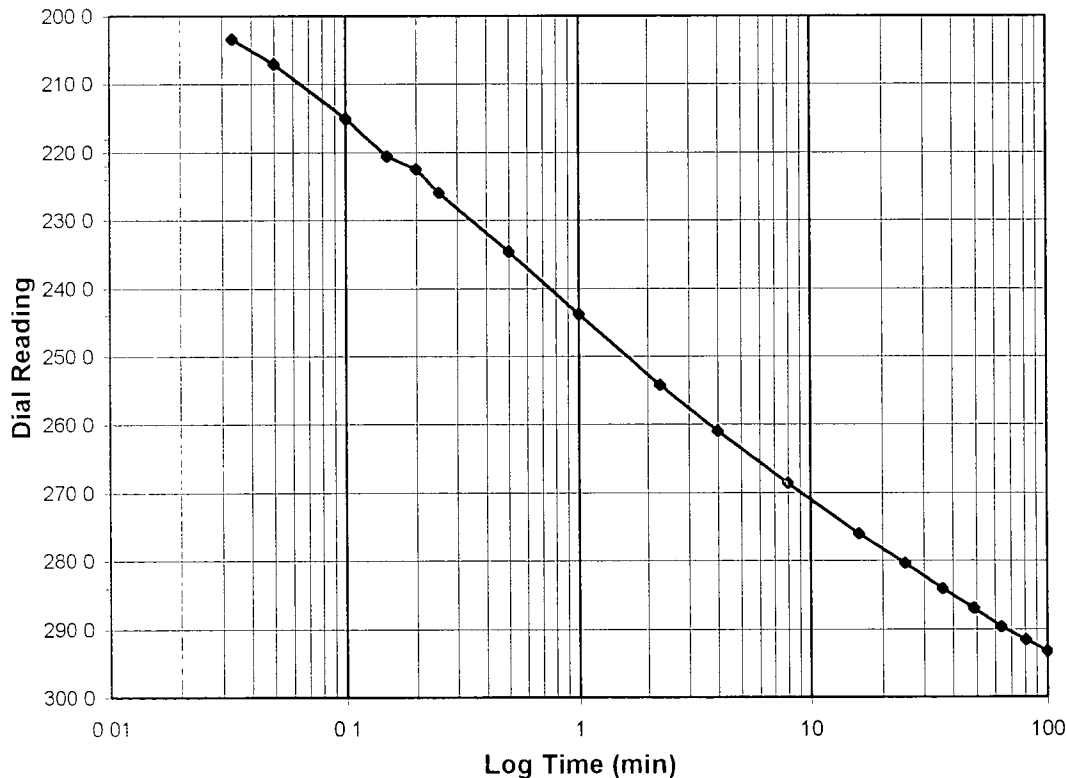
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-01	Sample No.	SS17
Lab ID	2004-221-01-08	Visual Description	BROWNISH GRAY STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.25-0.5
Final Reading (div)	293.2
Consolidometer No.	2
1 Division (in)	0.0001
Start Date	8/4/04
Start Time	9:26:45

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>163.4</b>
0.03	203.4
0.05	207.1
0.10	215.1
0.15	220.6
0.20	222.5
0.25	226.0
0.50	234.6
1.00	243.8
2.25	254.2
4.00	261.0
7.98	268.6
16.00	276.0
25.00	280.4
36.00	284.2
49.00	287.0
64.00	289.6
81.00	291.5
100.00	293.2



Tested By *TM* Date *8/4/04* Checked By *GU* Date *8/13/04*

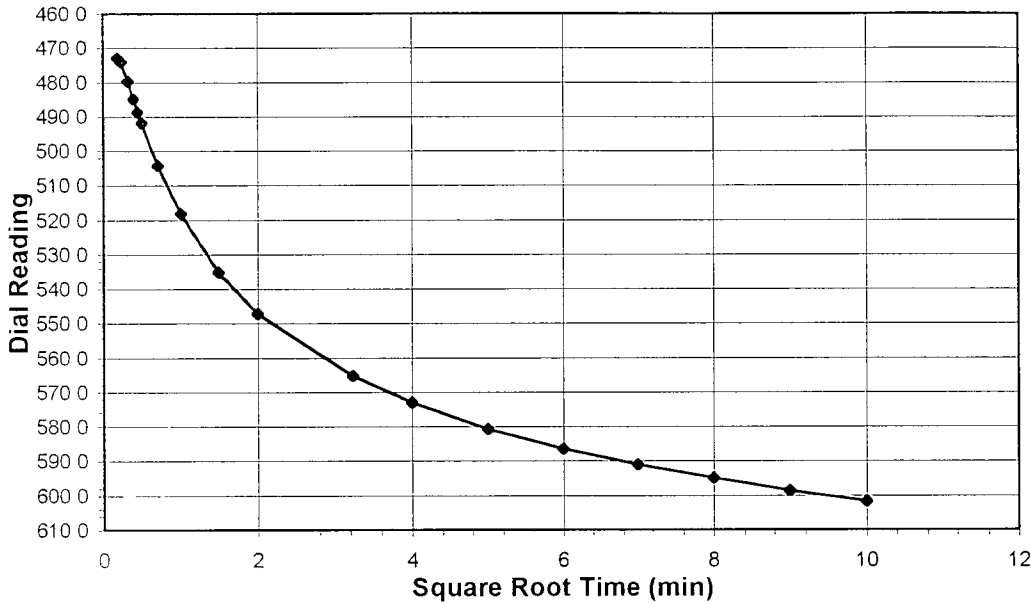


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-90 (SOP-S24A)

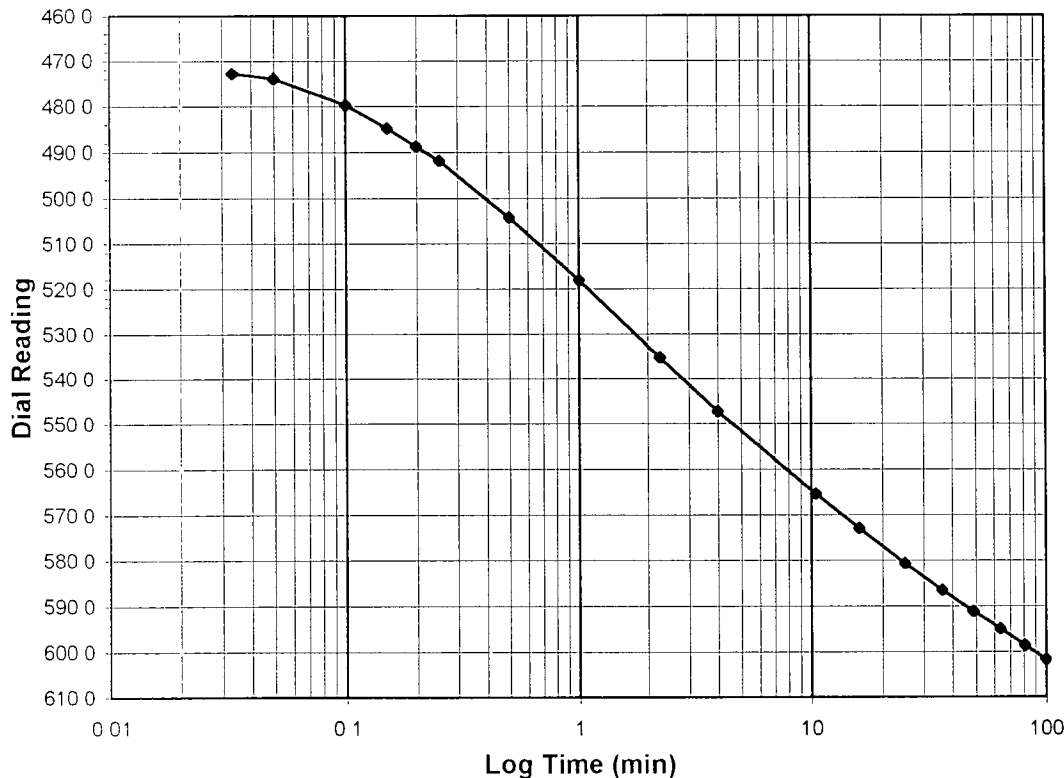
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-01	Sample No.	SS17
Lab ID	2004-221-01-08	Visual Description	BROWNISH GRAY STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.5-1.0
Final Reading (div)	601.7
Consolidometer No.	2
1 Division (in)	0.0001
Start Date	8/5/04
Start Time	9:49:02

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<i>293.2</i>
0.03	472.9
0.05	474.0
0.10	479.8
0.15	484.8
0.20	488.8
0.25	491.9
0.50	504.2
1.00	518.1
2.25	535.3
4.00	547.3
10.43	565.3
16.00	573.0
25.00	580.6
36.00	586.4
49.00	591.1
64.00	595.0
81.00	598.6
100.00	601.7



Tested By TM Date 8/5/04 Checked By GU Date 8/13/04



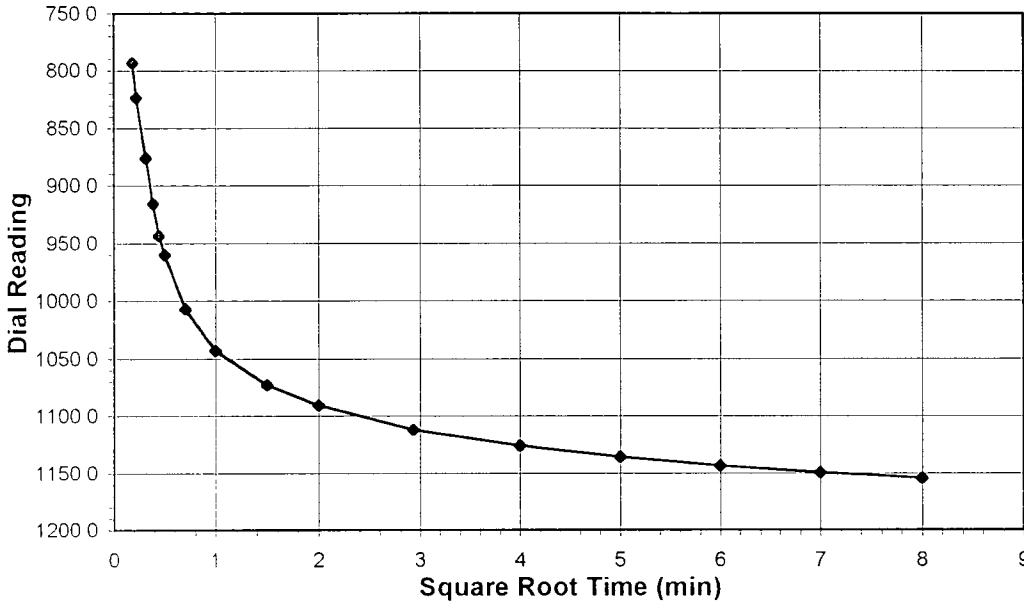


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-90 (SOP-S24A)

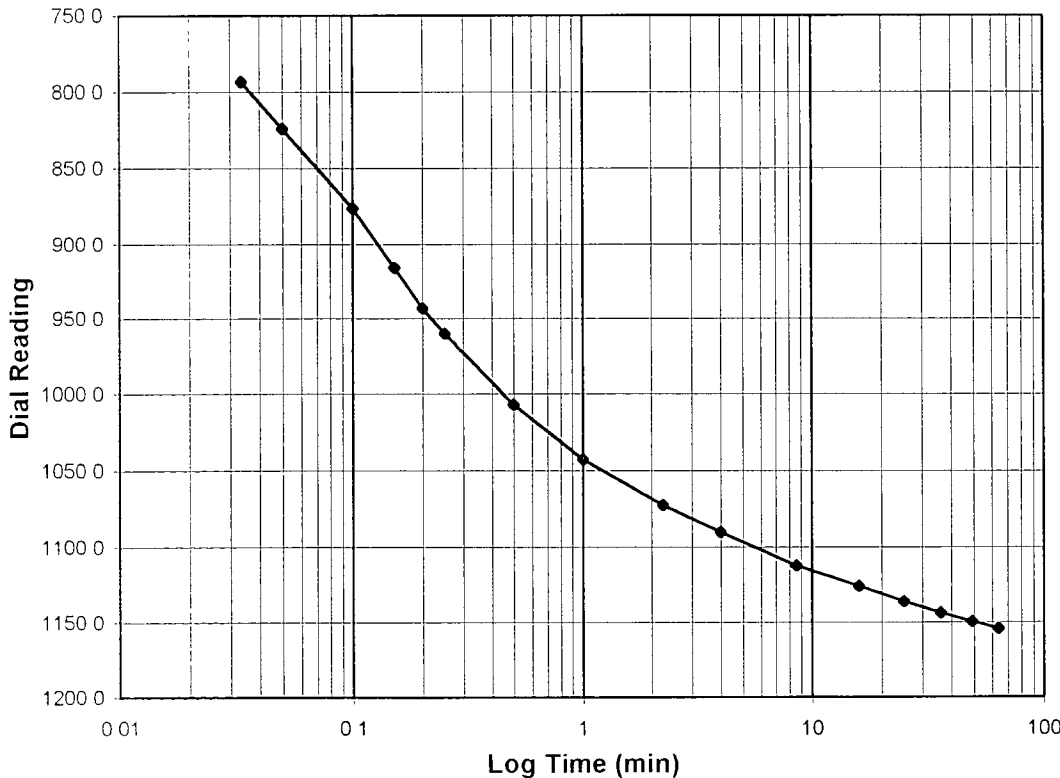
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-01	Sample No.	SS17
Lab ID	2004-221-01-08	Visual Description	BROWNISH GRAY STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	1.0-2.0
Final Reading (div)	1154.5
Consolidometer No.	2
1 Division (in)	0.0001
Start Date	8/5/04
Start Time	11:36:11

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>601.7</b>
0.03	793.3
0.05	823.7
0.10	876.0
0.15	916.0
0.20	943.4
0.25	960.3
0.50	1007.1
1.00	1042.9
2.25	1072.9
4.00	1090.5
8.57	1112.3
16.00	1126.0
25.00	1136.1
36.00	1143.6
49.00	1149.6
64.00	1154.5



Tested By TM Date 8/5/04 Checked By GU Date 8/13/04



# ONE DIMENSIONAL CONSOLIDATION

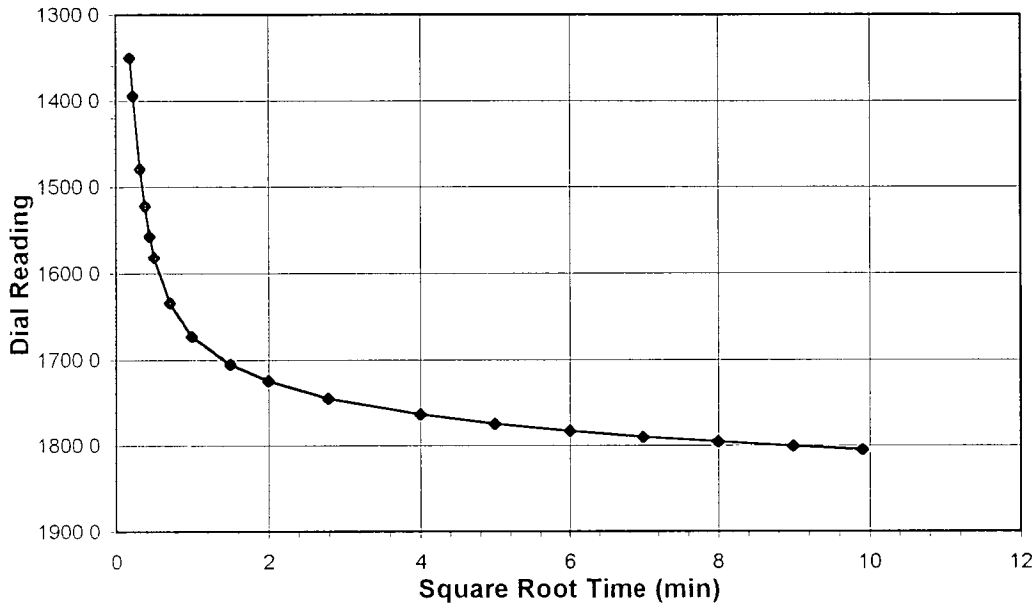
ASTM D 2435-90 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE  
 Client Project: GEHR TREATABILITY 204.302  
 Project No.: 2004-221-01  
 Lab ID: 2004-221-01-08

Boring No.:  
 Depth (ft):  
 Sample No.:  
 Visual Description:

NA  
 NA  
 SS17  
 BROWNISH GRAY  
 STABILIZED MATERIAL

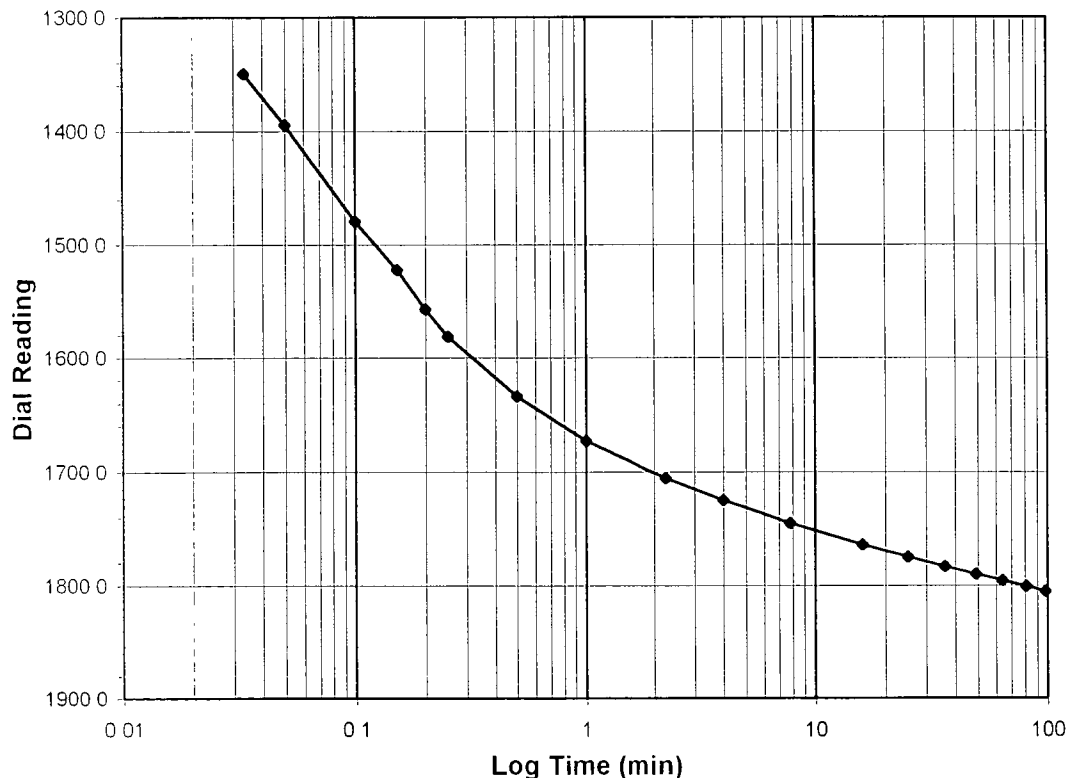
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf): 2.0-4.0  
 Final Reading (div): 1805.0  
 Consolidometer No.: 2  
 1 Division (in): 0.0001

Start Date: 8/5/04  
 Start Time: 12.49:23

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>1154.5</b>
0.03	1349.8
0.05	1394.3
0.10	1479.4
0.15	1522.1
0.20	1557.2
0.25	1581.4
0.50	1633.8
1.00	1672.8
2.25	1705.6
4.00	1724.9
7.78	1744.9
16.00	1763.9
25.00	1774.8
36.00	1783.1
49.00	1790.1
64.00	1795.7
81.02	1800.7
98.18	1805.0



Tested By: TM Date: 8/5/04 Checked By: G.U Date: 8/13/04

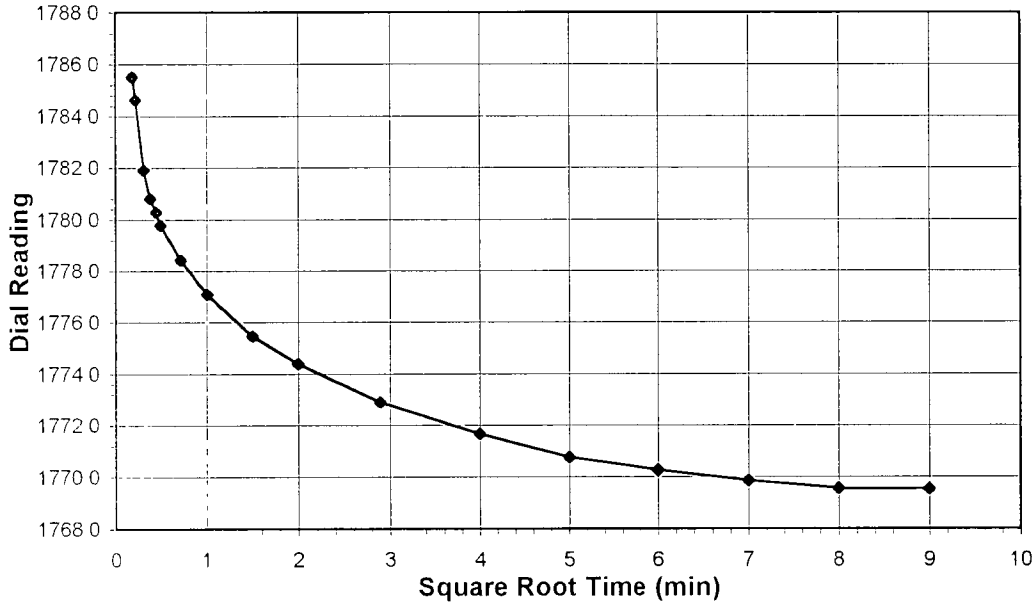


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-90 (SOP-S24A)

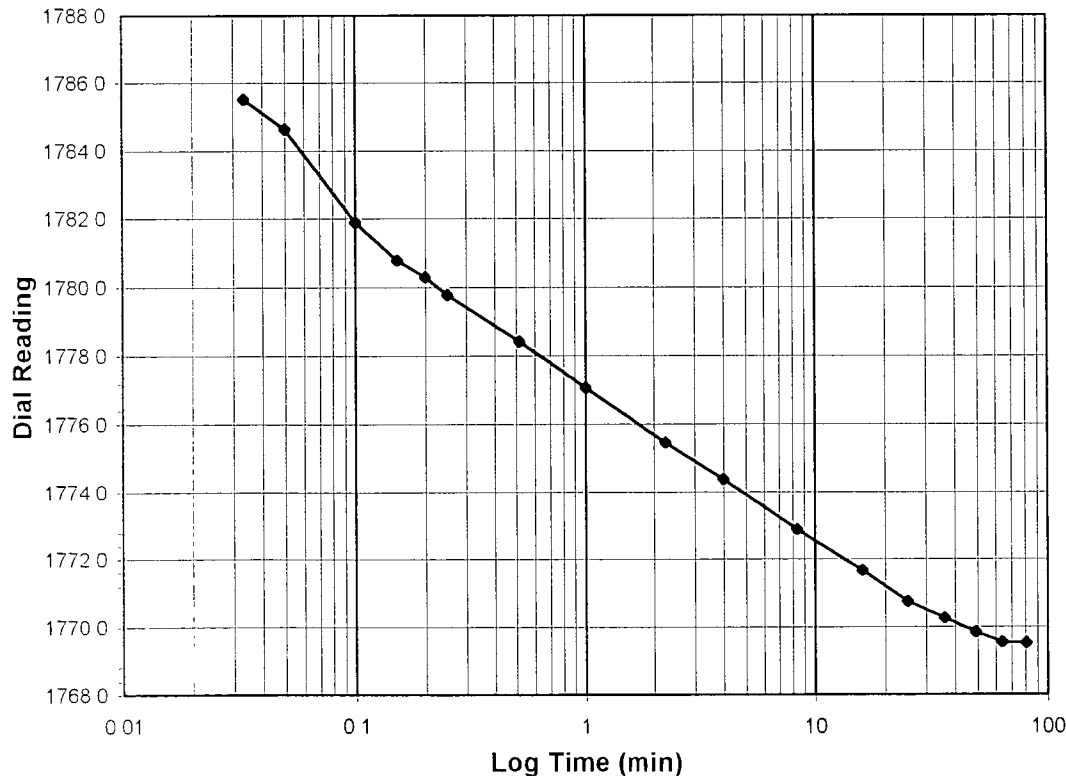
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-01	Sample No.	SS17
Lab ID	2004-221-01-08	Visual Description	BROWNISH GRAY STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	4.0-1.0
Final Reading (div)	1769.5
Consolidometer No.	2
1 Division (in)	0.0001
Start Date	8/5/04
Start Time	14:29:17

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>1805.0</b>
0.03	1785.5
0.05	1784.6
0.10	1781.9
0.15	1780.8
0.20	1780.3
0.25	1779.8
0.52	1778.4
1.00	1777.1
2.25	1775.5
4.00	1774.4
8.38	1772.9
16.00	1771.7
25.00	1770.7
36.00	1770.3
49.00	1769.9
64.00	1769.5
81.00	1769.5



Tested By *TM* Date *8/5/04* Checked By *GU* Date *8/13/04*

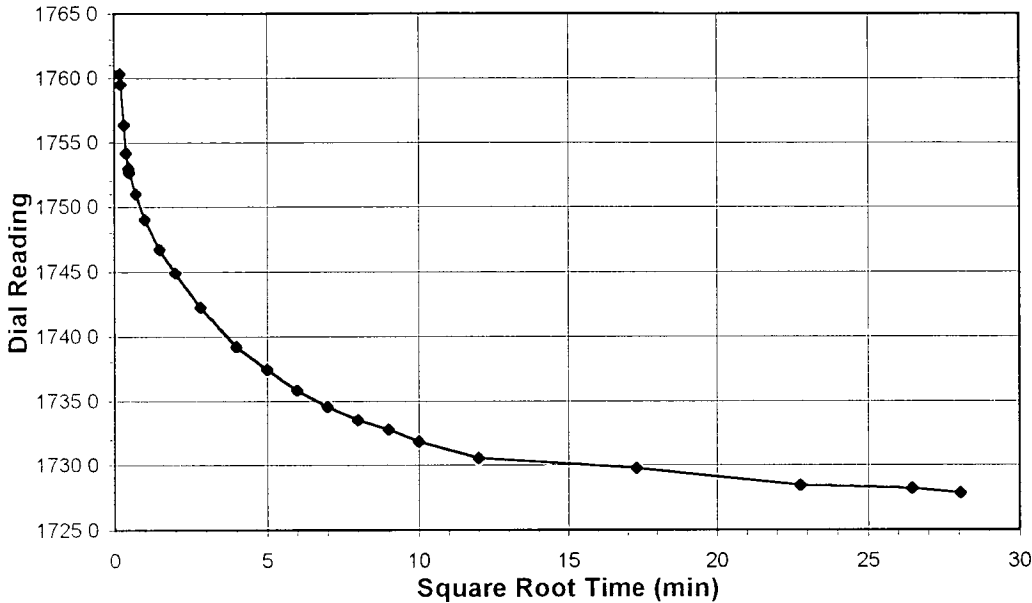


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-90 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-01	Sample No.	SS17
Lab ID	2004-221-01-08	Visual Description	BROWNISH GRAY STABILIZED MATERIAL

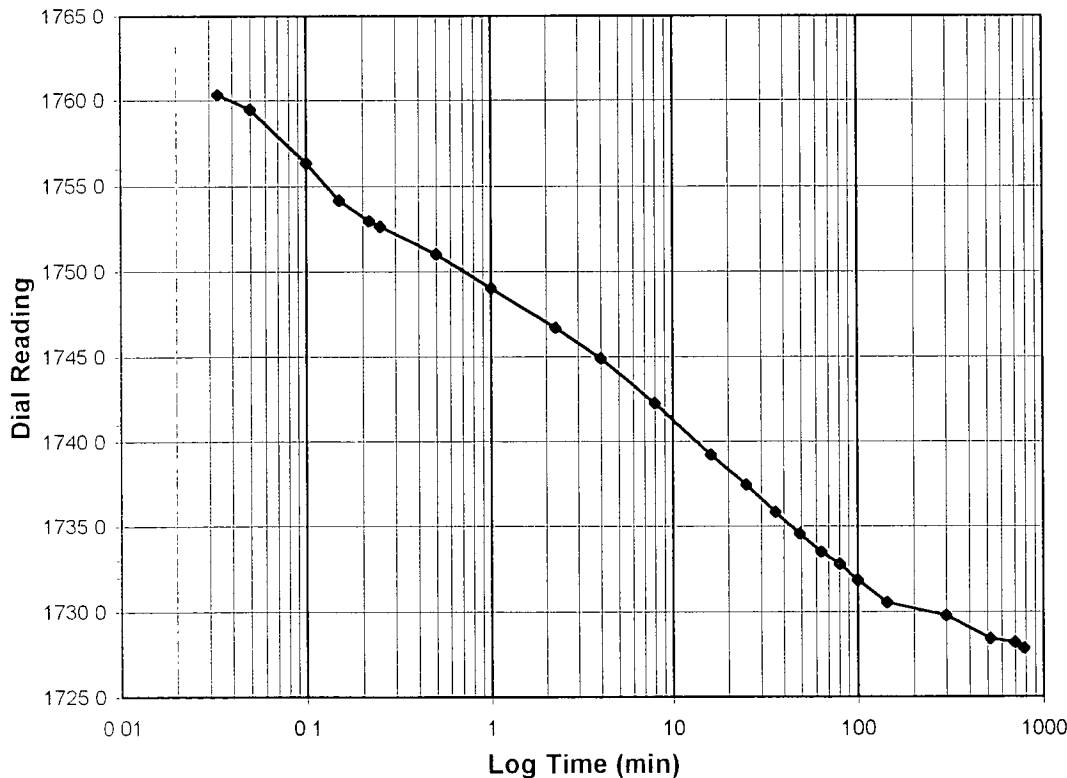
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	1.0-0.25
Final Reading (div)	1727.9
Consolidometer No.	2
1 Division (in)	0.0001

Start Date	8/5/04
Start Time	15:59:45

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>1769.5</b>
0.03	1760.4
0.05	1759.5
0.10	1756.4
0.15	1754.2
0.22	1753.0
0.25	1752.6
0.50	1751.0
1.00	1749.0
2.25	1746.7
4.00	1744.9
7.98	1742.3
16.00	1739.2
25.00	1737.4
36.00	1735.8
49.00	1734.5
64.00	1733.5
81.00	1732.8
100.00	1731.9
144.00	1730.5
300.00	1729.8
520.00	1728.4
700.00	1728.2
787.27	1727.9



Tested By *TM* Date *8/5/04* Checked By *GU* Date *8/13/04*

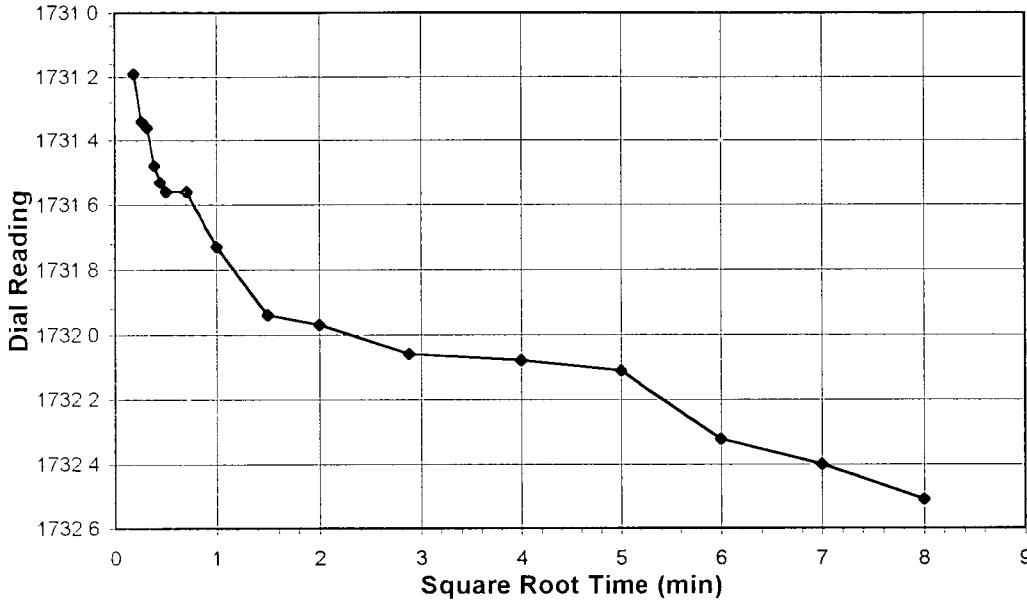


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-90 (SOP-S24A)

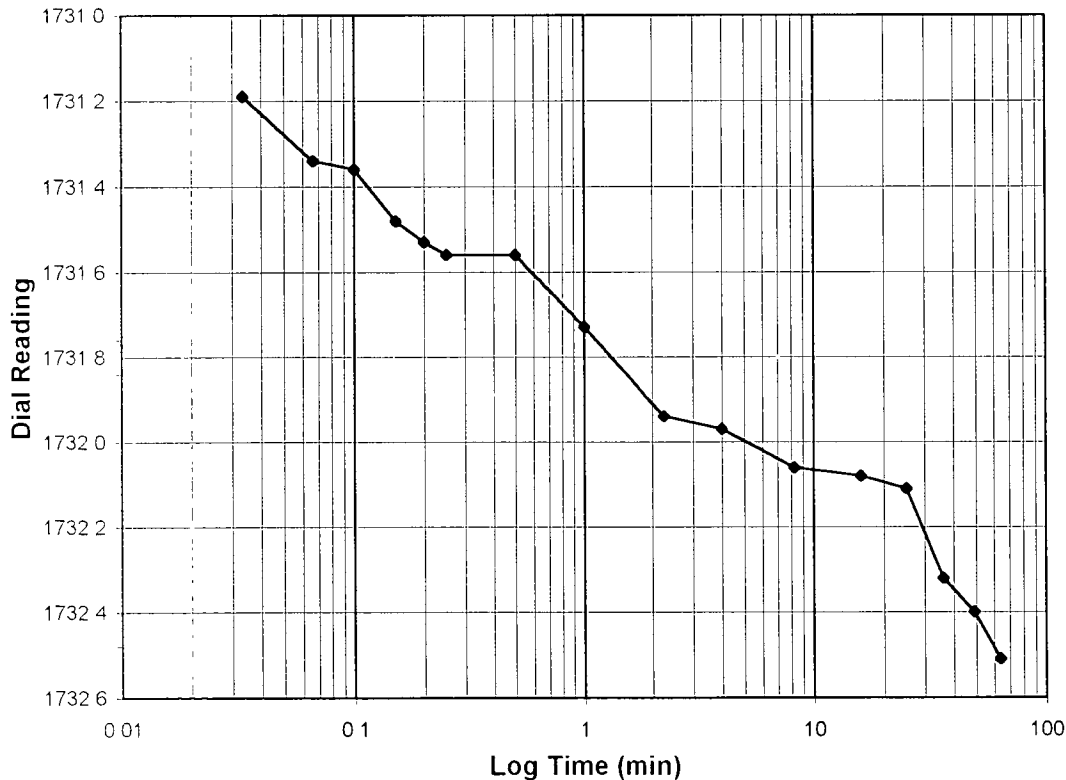
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-01	Sample No.	SS17
Lab ID	2004-221-01-08	Visual Description	BROWNISH GRAY STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.25-0.5
Final Reading (div)	1732.5
Consolidometer No.	2
1 Division (in)	0.0001
Start Date	8/6/04
Start Time	5.21.53

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>1727.9</b>
0.03	1731.2
0.07	1731.3
0.10	1731.4
0.15	1731.5
0.20	1731.5
0.25	1731.6
0.50	1731.6
1.00	1731.7
2.25	1731.9
4.00	1732.0
8.28	1732.1
16.00	1732.1
25.00	1732.1
36.00	1732.3
49.00	1732.4
64.00	1732.5



Tested By *TM* Date *8/6/04* Checked By *GU* Date *8/13/04*

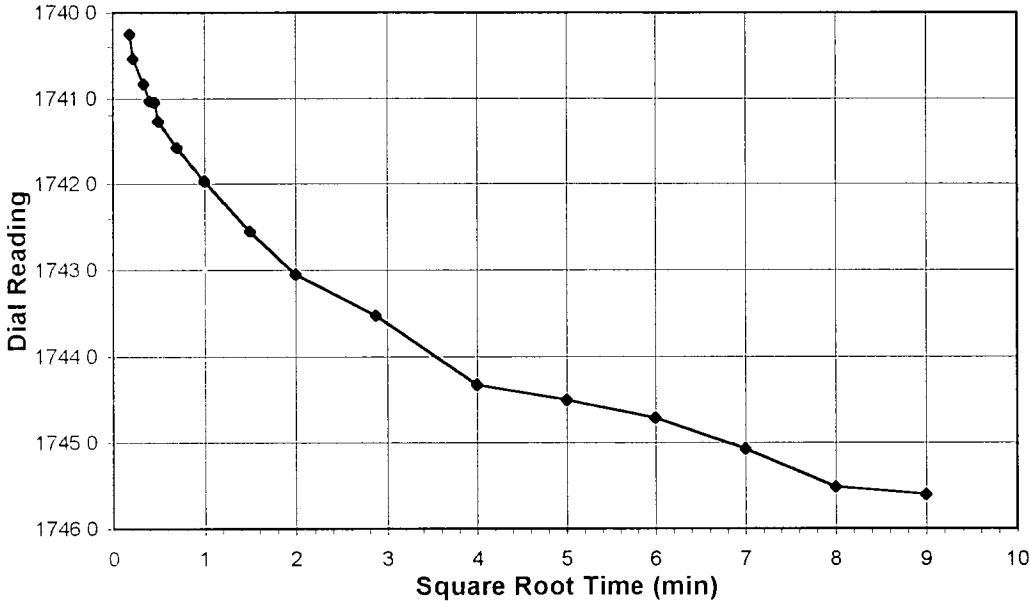


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-90 (SOP-S24A)

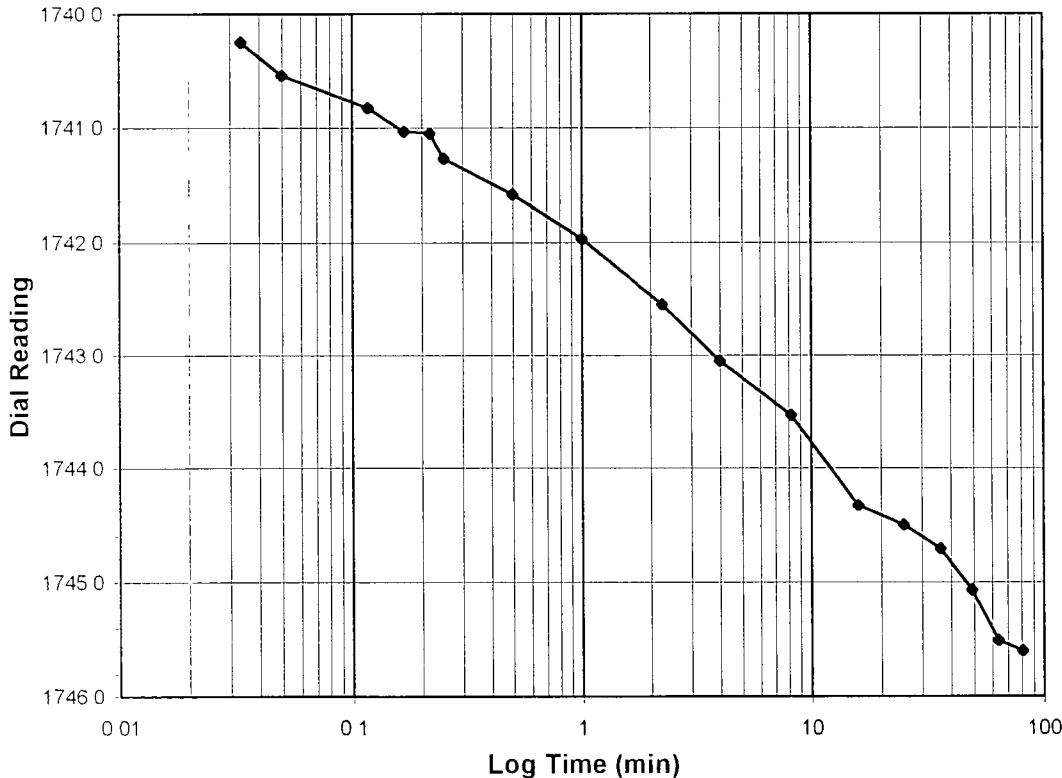
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-01	Sample No.	SS17
Lab ID	2004-221-01-08	Visual Description	BROWNISH GRAY STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.5-1.0
Final Reading (div)	1745.6
Consolidometer No.	2
1 Division (in)	0.0001
Start Date	8/6/04
Start Time	6:33:16

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>1732.5</b>
0.03	1740.3
0.05	1740.5
0.12	1740.8
0.17	1741.0
0.22	1741.1
0.25	1741.3
0.50	1741.6
1.00	1742.0
2.25	1742.6
4.00	1743.1
8.23	1743.5
16.00	1744.3
25.00	1744.5
36.00	1744.7
49.00	1745.1
64.00	1745.5
81.00	1745.6



Tested By *TM* Date *8/6/04* Checked By *GU* Date *8/13/04*

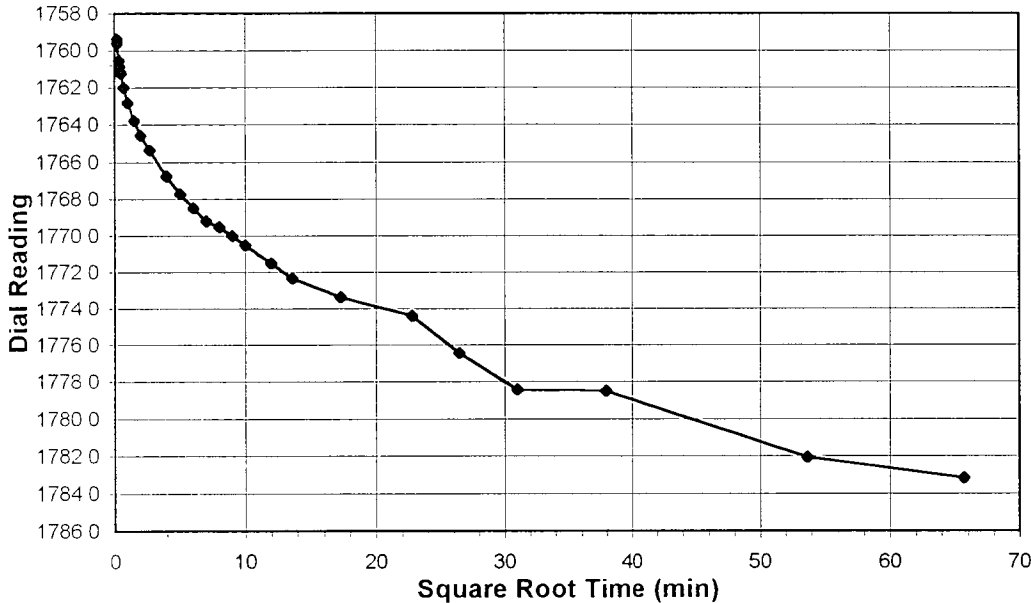


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-90 (SOP-S24A)

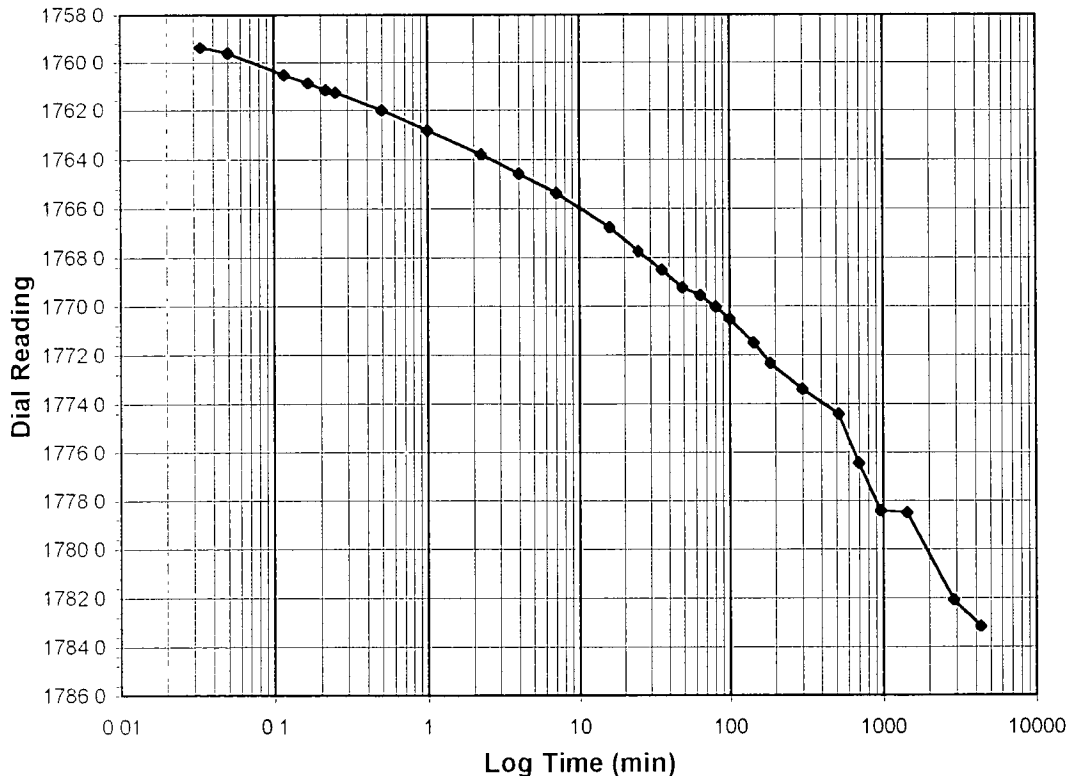
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-01	Sample No.	SS17
Lab ID	2004-221-01-08	Visual Description	BROWNISH GRAY STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	1.0-2.0
Final Reading (div)	1783.2
Consolidometer No.	2
1 Division (in)	0.0001
Start Date	8/6/04
Start Time	8:08:31

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>1745.6</b>
0.03	1759.4
0.05	1759.6
0.12	1760.5
0.17	1760.9
0.22	1761.2
0.25	1761.3
0.50	1762.0
1.00	1762.8
2.25	1763.8
4.00	1764.6
7.12	1765.4
16.00	1766.8
25.00	1767.7
36.00	1768.5
49.00	1769.2
64.00	1769.5
81.00	1770.0
100.00	1770.5
144.00	1771.5
185.60	1772.4
300.00	1773.4
520.00	1774.4
700.00	1776.5
960.00	1778.4
1440.02	1778.5
2880.00	1782.1
4320.00	1783.2



Tested By *TM* Date *8/6/04* Checked By *GU* Date *8/13/04*



# ONE DIMENSIONAL CONSOLIDATION

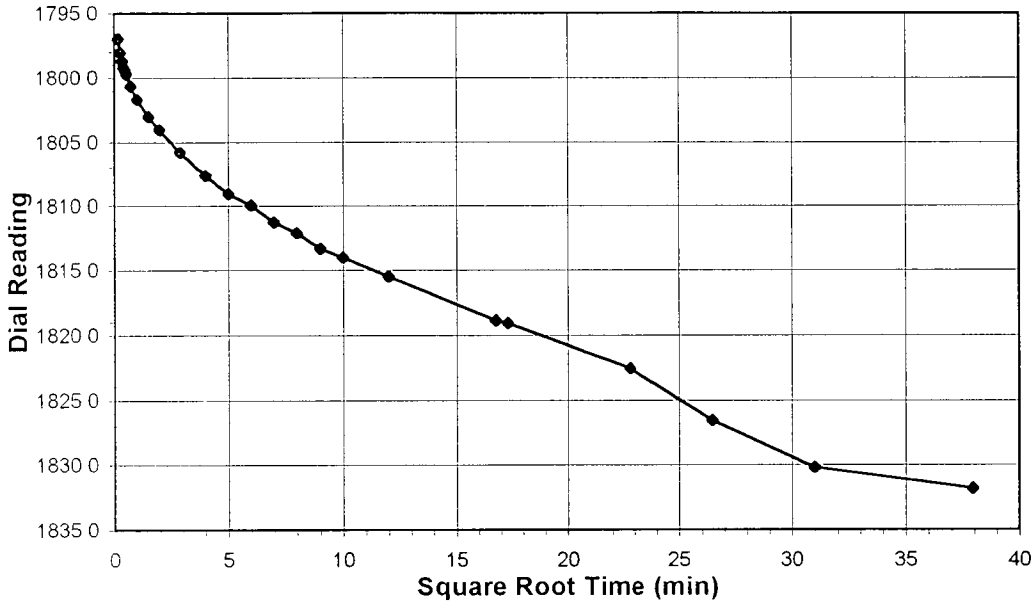
ASTM D 2435-90 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE  
 Client Project: GEHR TREATABILITY 204.302  
 Project No: 2004-221-01  
 Lab ID: 2004-221-01-08

Boring No.:  
 Depth (ft):  
 Sample No.:  
 Visual Description:

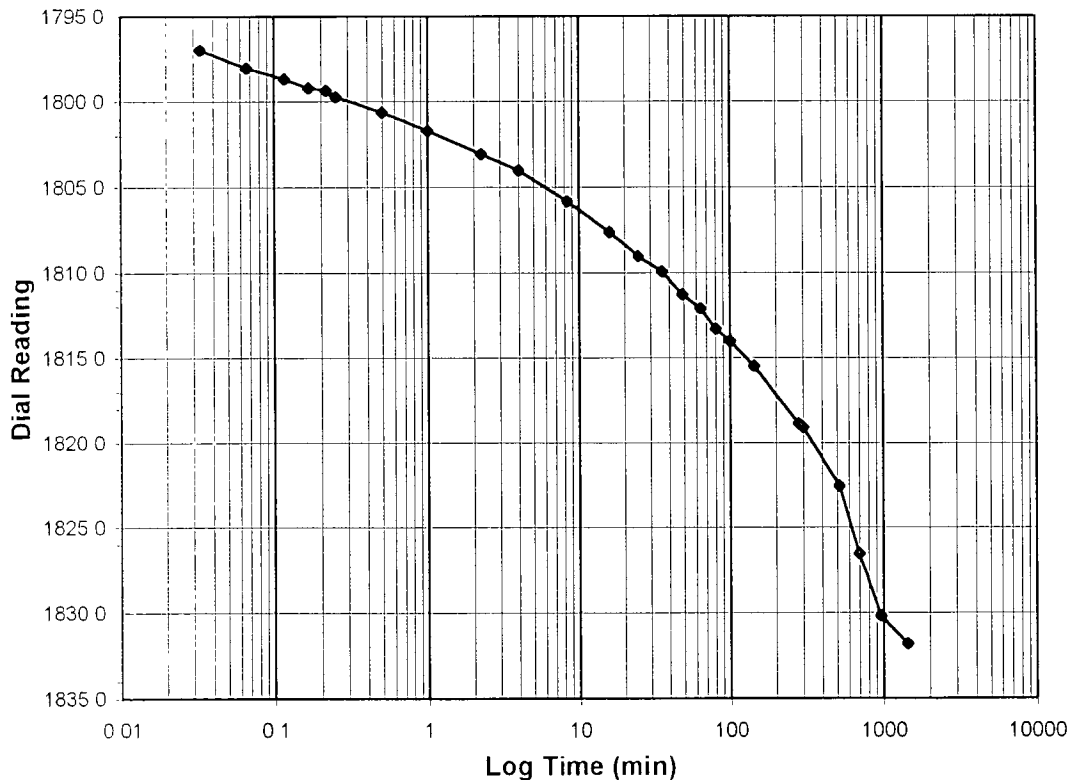
NA  
 NA  
 SS17  
 BROWNISH GRAY  
 STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf): 2.0-4.0  
 Final Reading (div): 1831.8  
 Consolidometer No.: 2  
 1 Division (in): 0.0001  
 Start Date: 8/9/04  
 Start Time: 9:32:55

Elapsed Time (min)	Dial Reading (div)
Initial	1783.2
0.03	1797.0
0.07	1798.0
0.12	1798.7
0.17	1799.2
0.22	1799.4
0.25	1799.7
0.50	1800.6
1.00	1801.7
2.25	1803.0
4.00	1804.0
8.45	1805.8
16.00	1807.6
25.00	1809.0
36.00	1809.9
49.00	1811.3
64.00	1812.1
81.00	1813.3
100.00	1814.0
144.00	1815.5
281.63	1818.9
300.00	1819.1
520.00	1822.6
700.00	1826.5
960.00	1830.2
1440.00	1831.8



Tested By: TM Date: 8/9/04 Checked By: GU Date: 8/13/04



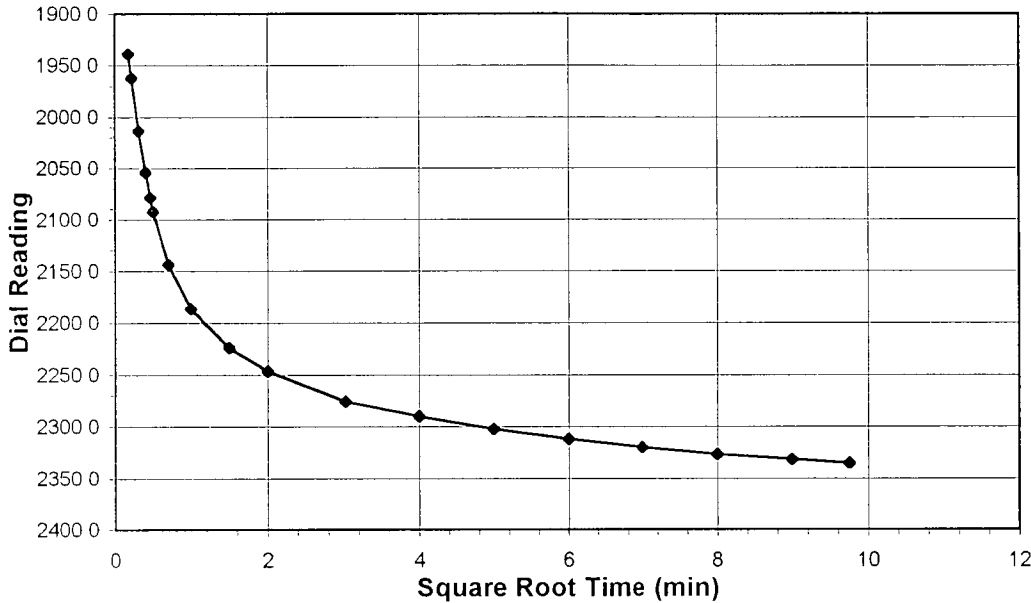


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-90 (SOP-S24A)

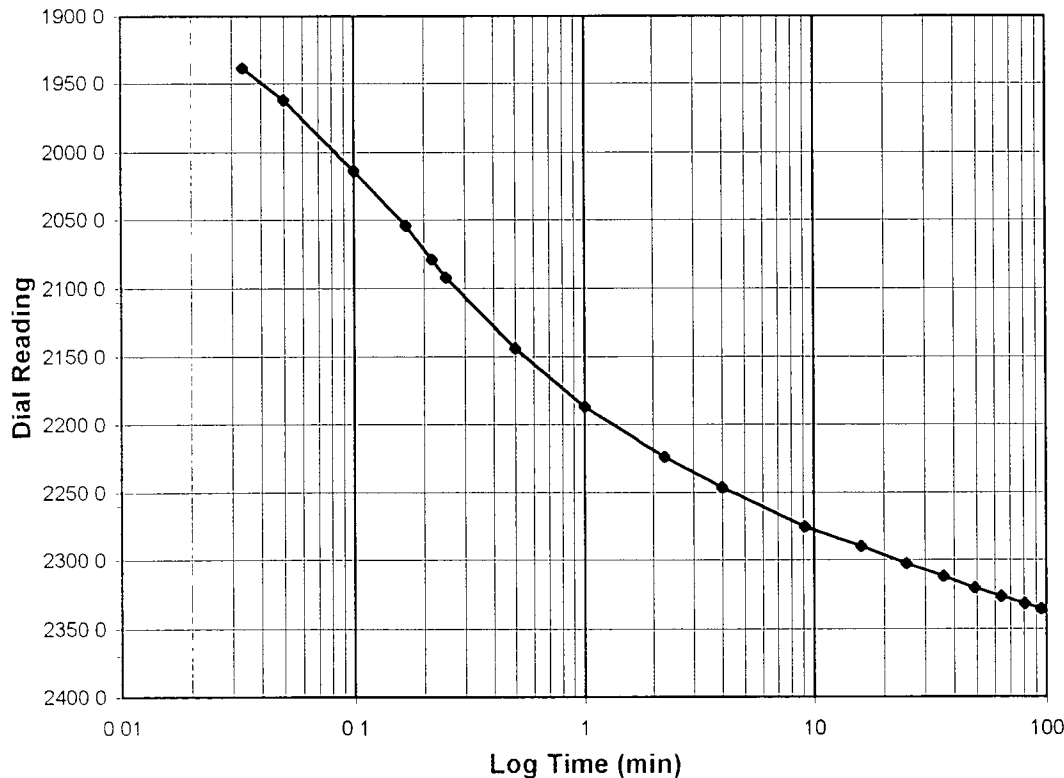
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-01	Sample No.	SS17
Lab ID	2004-221-01-08	Visual Description	BROWNISH GRAY STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	4.0-8.0
Final Reading (div)	2335.5
Consolidometer No.	2
1 Division (in)	0.0001
Start Date	8/10/04
Start Time	10:08:35

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>1831.8</b>
0.03	1938.6
0.05	1961.9
0.10	2013.5
0.17	2053.9
0.22	2079.0
0.25	2092.2
0.50	2143.8
1.00	2186.5
2.25	2224.0
4.00	2246.2
9.18	2275.6
16.00	2290.2
25.00	2302.5
36.00	2312.3
49.00	2320.4
64.00	2326.8
81.00	2332.0
95.15	2335.5



Tested By TM Date 8/10/04 Checked By GU Date 8/13/04

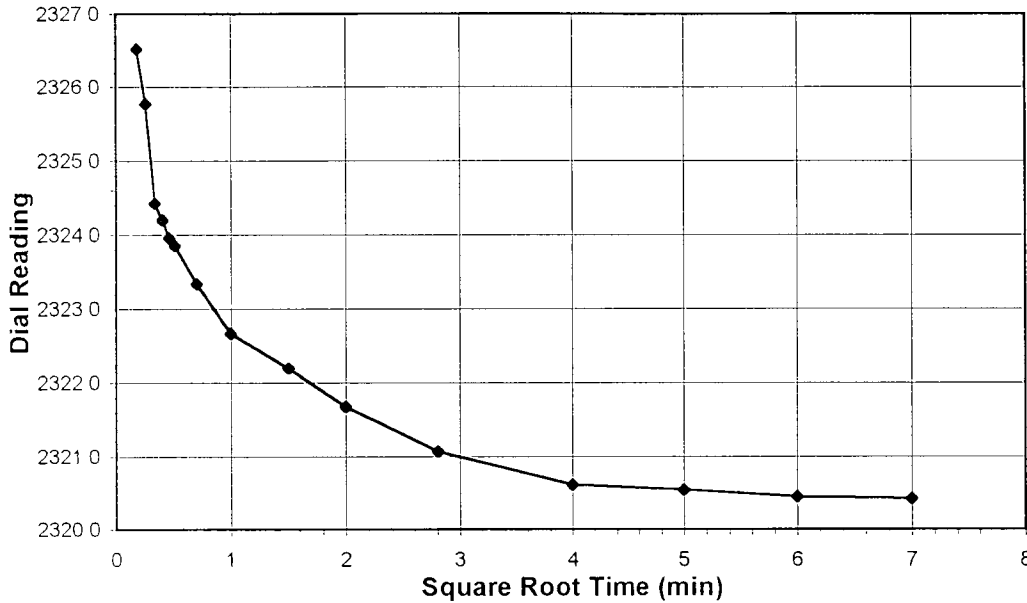


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-90 (SOP-S24A)

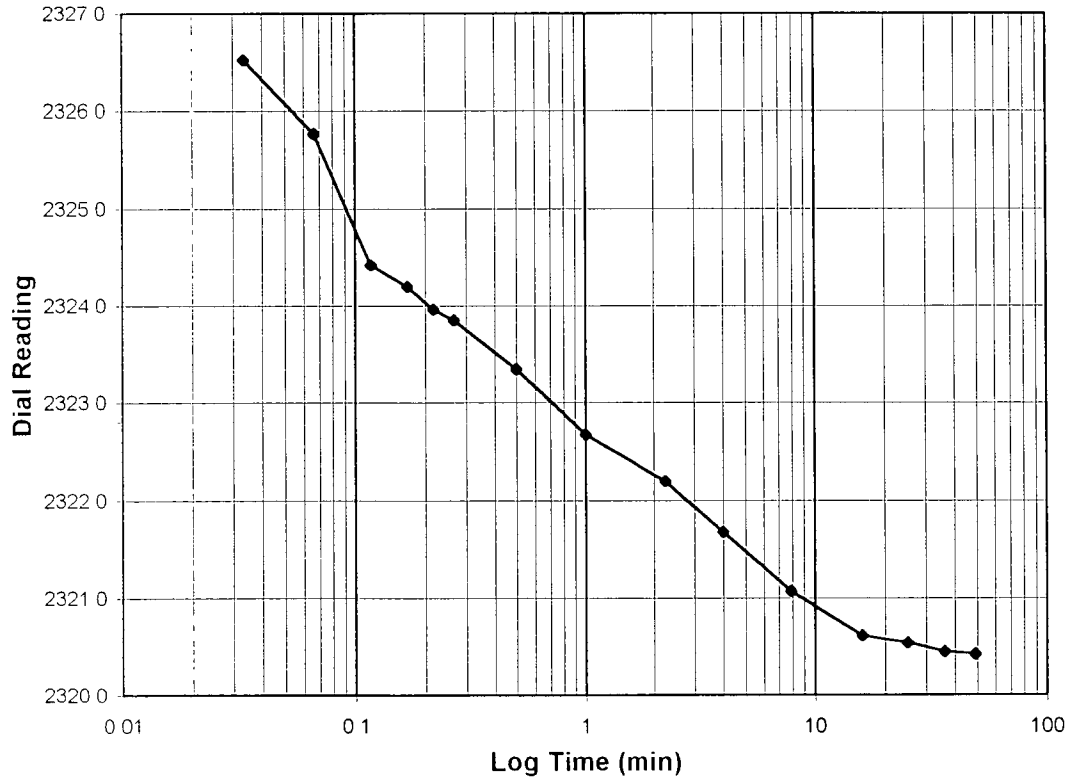
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-01	Sample No.	SS17
Lab ID	2004-221-01-08	Visual Description	BROWNISH GRAY STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	8.0-4.0
Final Reading (div)	2320.4
Consolidometer No.	2
1 Division (in)	0.0001
Start Date	8/10/04
Start Time	11:45:46

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>2335.5</b>
0.03	2326.5
0.07	2325.8
0.12	2324.4
0.17	2324.2
0.22	2324.0
0.27	2323.9
0.50	2323.3
1.00	2322.7
2.25	2322.2
4.00	2321.7
7.89	2321.1
16.00	2320.6
25.00	2320.5
36.00	2320.5
49.00	2320.4



Tested By TM Date 8/10/04 Checked By GU Date 8/13/04

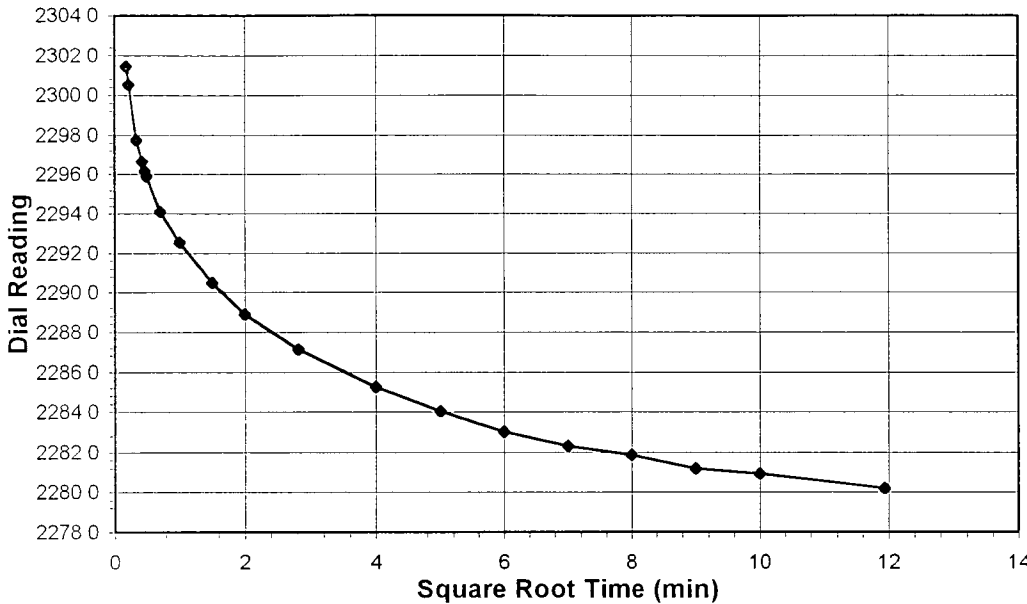


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-90 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-01	Sample No.	SS17
Lab ID	2004-221-01-08	Visual Description	BROWNISH GRAY STABILIZED MATERIAL

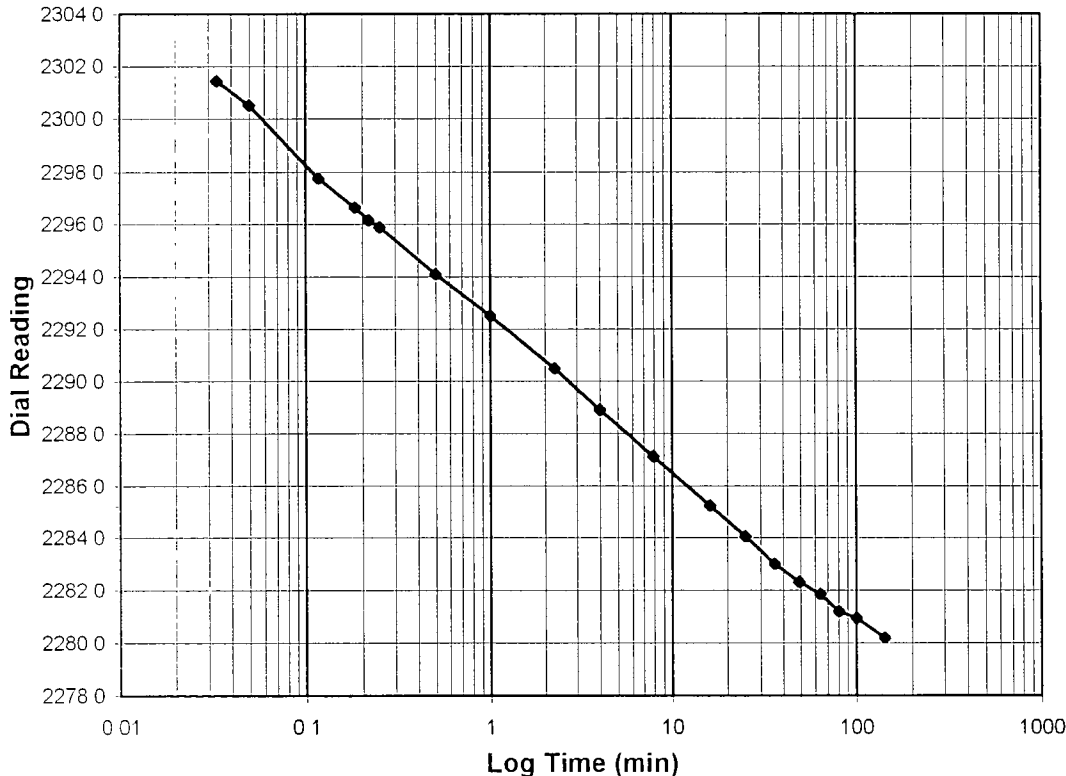
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	4.0-1.0
Final Reading (div)	2280.2
Consolidometer No.	2
1 Division (in)	0.0001

Start Date	8/10/04
Start Time	13:07:55

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>2320.4</b>
0.03	2301.4
0.05	2300.5
0.12	2297.8
0.18	2296.6
0.22	2296.2
0.25	2295.9
0.50	2294.1
1.00	2292.5
2.25	2290.5
4.00	2288.9
7.93	2287.1
16.00	2285.2
25.00	2284.1
36.00	2283.0
49.00	2282.3
64.00	2281.9
81.00	2281.2
100.00	2281.0
142.57	2280.2



Tested By TM Date 8/10/04 Checked By GU Date 8/13/04

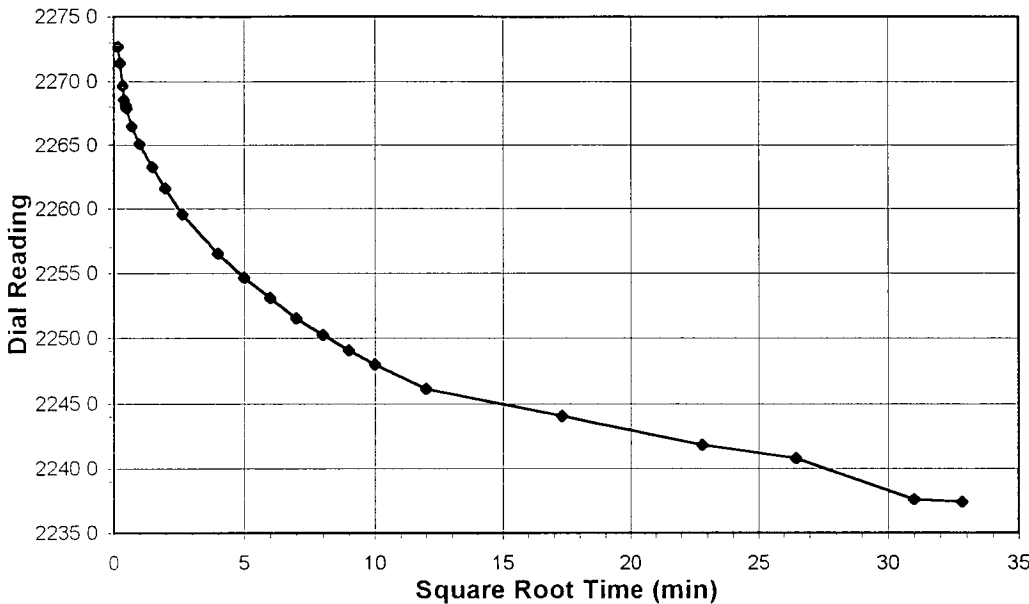


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-90 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-01	Sample No.	SS17
Lab ID	2004-221-01-08	Visual Description	BROWNISH GRAY STABILIZED MATERIAL

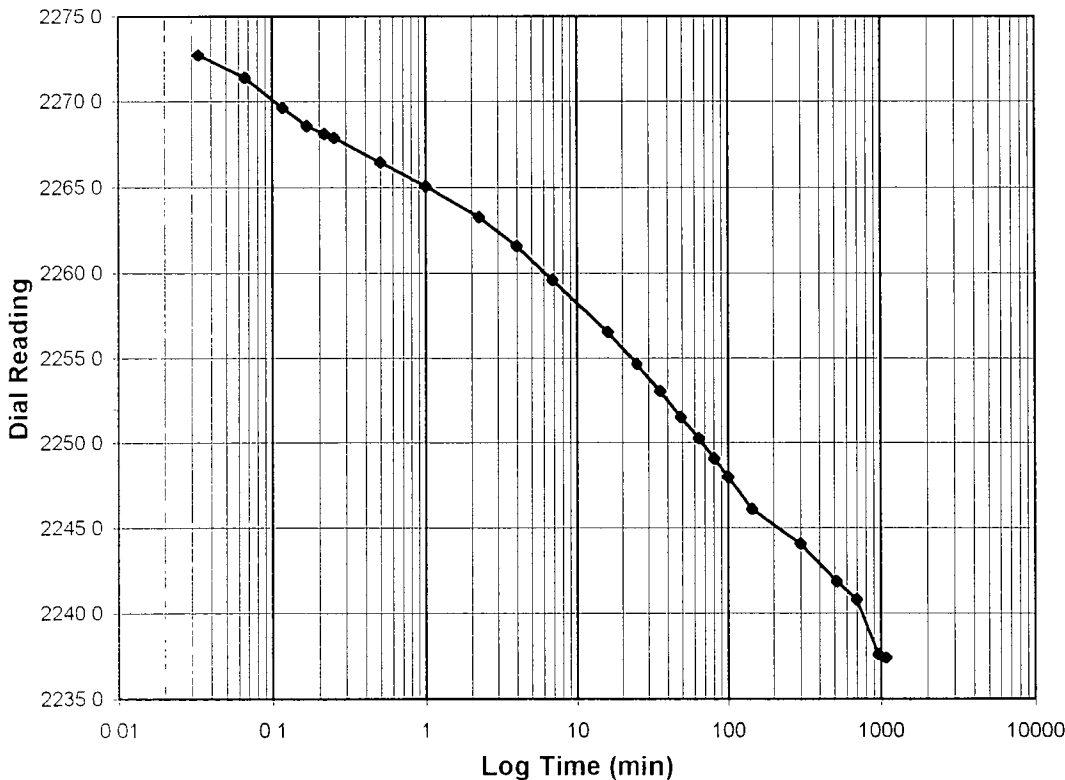
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	1.0-0.25
Final Reading (div)	2237.4
Consolidometer No.	2
1 Division (in)	0.0001

Start Date	8/10/04
Start Time	15:32:31

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>2280.2</b>
0.03	2272.7
0.07	2271.4
0.12	2269.6
0.17	2268.6
0.22	2268.1
0.25	2267.9
0.50	2266.5
1.00	2265.1
2.25	2263.3
4.00	2261.6
6.89	2259.6
16.00	2256.5
25.00	2254.7
36.00	2253.1
49.00	2251.5
64.00	2250.3
81.00	2249.1
100.00	2248.0
144.00	2246.1
300.00	2244.1
520.00	2241.8
700.00	2240.8
960.00	2237.6
1078.68	2237.4



Tested By TM Date 8/10/04 Checked By GO Date 8/13/04

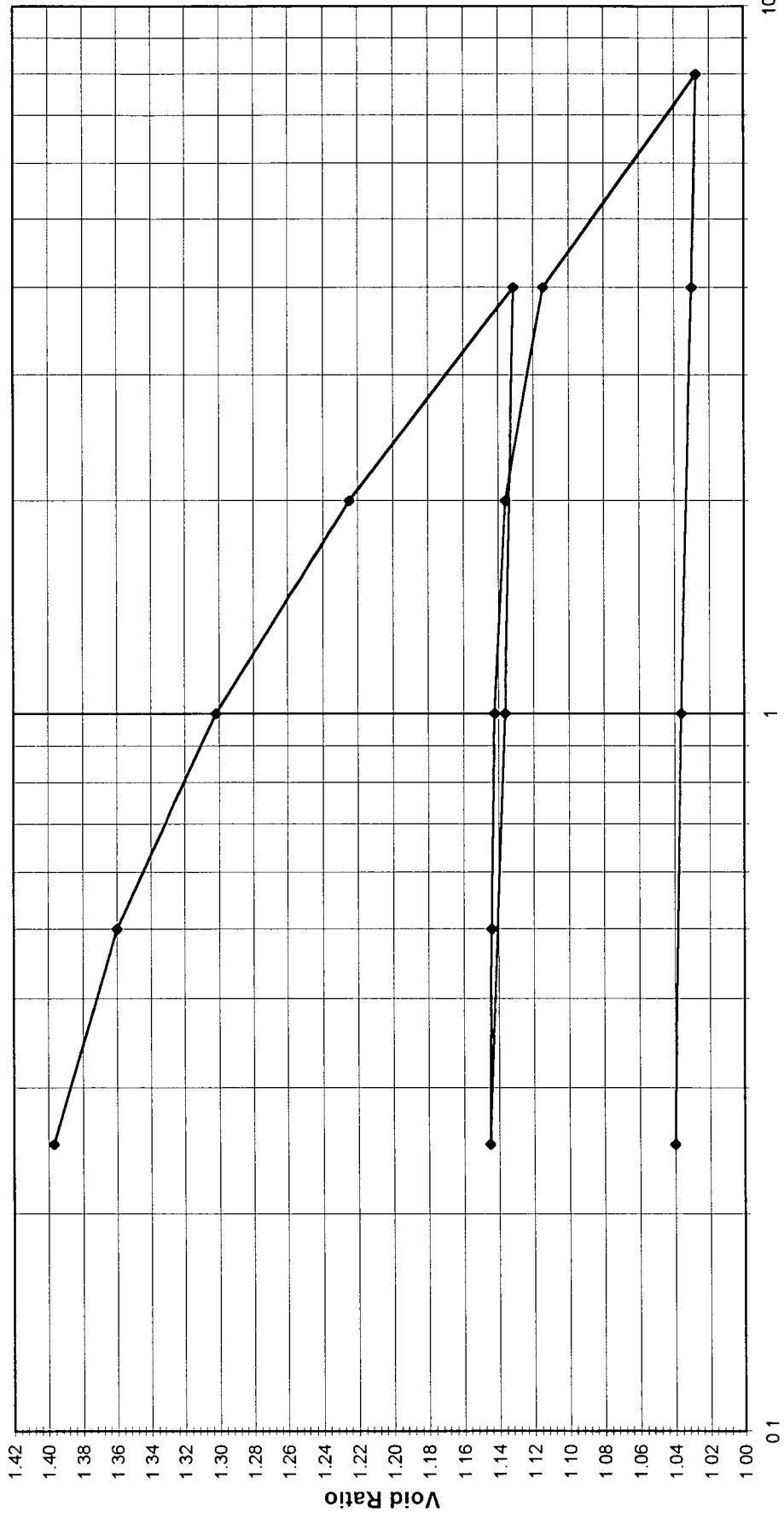


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 / AASHTO T216-03 (SOP-S24)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Reference	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-01	Sample No.	SS14-DUP
Lab ID	2004-221-01-09	Visual Description	BROWNISH GRAY STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Log P (tsf)

Tested By TM Date 8/9/04 Approved By DB Date 8/17/04



**ONE DIMENSIONAL CONSOLIDATION**

ASTM D 2435-96 / AASHTO T216-03 (SOP-S24)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Reference	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-01	Sample No.	SS14-DUP
Lab ID	2004-221-01-09	Visual Description	BROWNISH GRAY STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED

Consolidometer No. 1

1 Division = 0.0001 (in)

Sample Properties

	Initial	Final
<i>Water Content</i>		
Tare Number	282	1399
Wt. Tare & WS (gm)	162.53	126.36
Wt. Tare & DS (gm)	107.93	102.74
Wt. Water (gm)	54.60	23.62
Wt. Tare (gm)	8.13	38.17
Wt. DS (gm)	99.80	64.57
Water Content (%)	54.71	36.58

*Sample Parameters*

Sample Diameter (in)	2.5	2.5
Sample Height (in)	0.75	0.609
Sample Volume (cc)	60.33	49.00
Wt. Wet Sample + Ring (gm)	176.69	164.93
Wt. of Ring (gm)	76.36	76.36
Wt. of Wet Sample (gm)	100.33	88.57
Wet Density (pcf)	103.77	112.80
Wet Density (g/cc)	1.66	1.81
Water Content (%)	54.71	36.58
Wt. of Dry Sample (gm)	64.85	64.85
Dry Density (pcf)	67.08	82.59
Dry Density (g/cc)	1.07	1.32
Void Ratio	1.5118	1.0400
Saturation (%)	97.71	94.97
Specific Gravity	2.70	Assumed

Test Data Summary

Applied Pressure (tsf)	Final Reading (div)	Machine Deflection (div)	Corrected Reading (div)	Height of Sample (mm)	Volume (cc)	Dry Density (g/cc)	Void Ratio
Seating	0	0	0	19.050	60.330	1.07493	1.51178
0.25	351.4	8.9	342.5	18.180	57.574	1.12638	1.39706
0.5	469.1	15.8	453.3	17.899	56.684	1.14408	1.35998
1	654.1	26.9	627.2	17.457	55.285	1.17303	1.30172
2	897.1	39.4	857.7	16.871	53.431	1.21373	1.22454
4	1190.5	54.3	1136.2	16.164	51.190	1.26685	1.13127
1	1155.8	34.8	1121.0	16.203	51.313	1.26383	1.13636
0.25	1113.3	17.9	1095.4	16.268	51.518	1.25879	1.14492
0.5	1120.0	21.8	1098.2	16.261	51.496	1.25933	1.14400
1	1133.3	29.5	1103.8	16.246	51.451	1.26044	1.14211
2	1164.3	41.8	1122.5	16.199	51.301	1.26412	1.13587
4	1240.7	54.4	1186.4	16.037	50.787	1.27692	1.11447
8	1515.8	69.8	1446.0	15.377	48.698	1.33168	1.02751
4	1501.6	63.0	1438.6	15.396	48.758	1.33006	1.02999
1	1459.3	40.1	1419.2	15.445	48.914	1.32582	1.03648
0.25	1432.3	23.5	1408.8	15.472	48.998	1.32354	1.03998

Tested By TM Date 8/9/04 Input Checked By GO Date 8/17/04



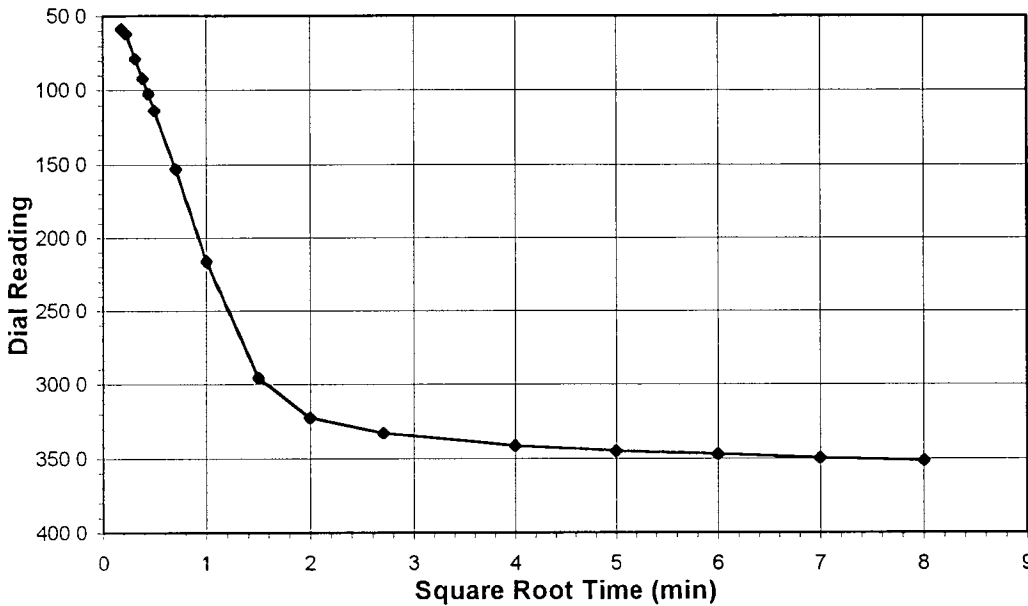
# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE  
 Client Project: GEHR TREATABILITY 204.302  
 Project No.: 2004-221-01  
 Lab ID: 2004-221-01-09

Boring No.: NA  
 Depth (ft): NA  
 Sample No.: SS14-DUP  
 Visual Description: BROWNISH GRAY STABILIZED MATERIAL

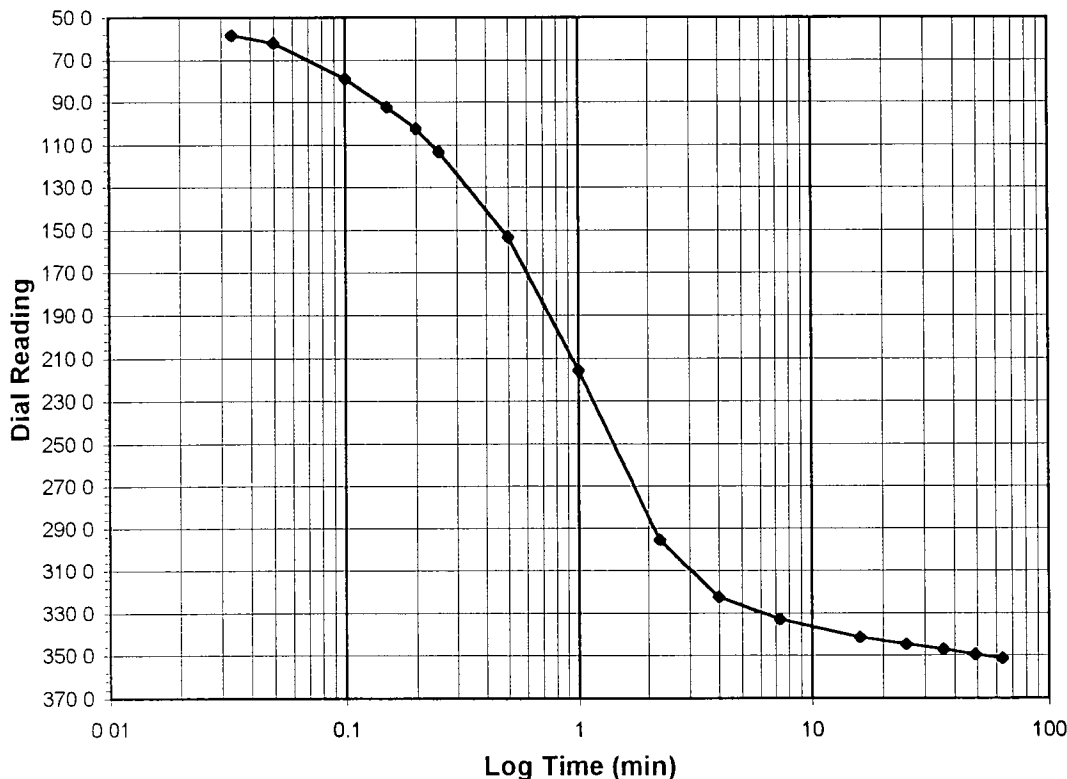
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf): 0-0.25  
 Final Reading (div): 351.4  
 Consolidometer No.: 1  
 1 Division (in): 0.0001

Start Date: 8/9/04  
 Start Time: 14:09:07

Elapsed Time (min)	Dial Reading (div)
Initial	0.0
0.03	58.4
0.05	61.9
0.10	78.8
0.15	92.3
0.20	102.5
0.25	113.5
0.50	153.3
1.00	216.0
2.25	295.6
4.00	322.4
7.33	333.1
16.00	341.4
25.00	344.9
36.00	347.3
49.02	349.6
64.02	351.4



Tested By: TM Date: 8/9/04 Checked By: GU Date: 8/17/04



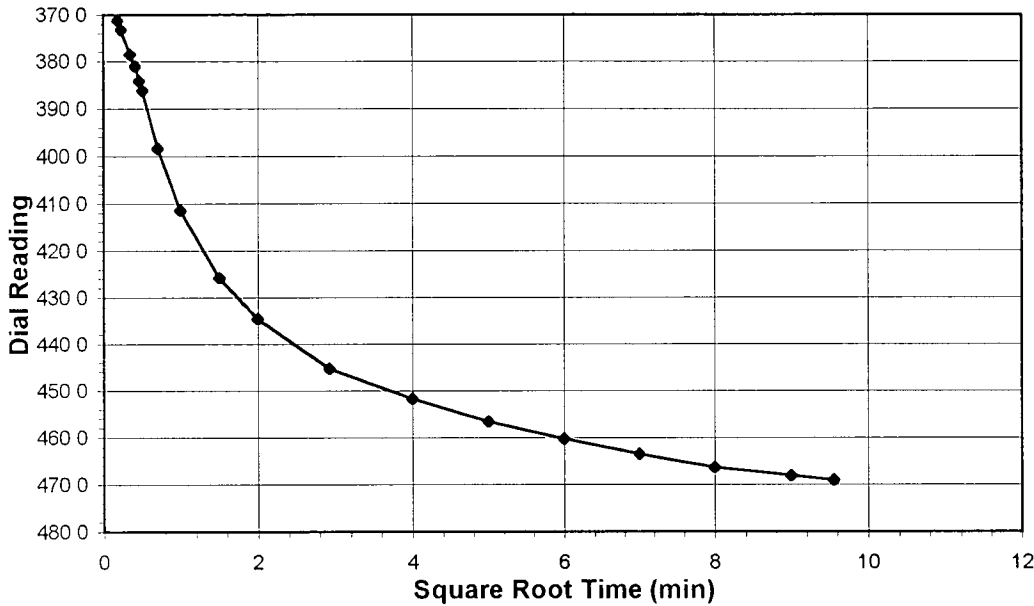
# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE  
 Client Project: GEHR TREATABILITY 204.302  
 Project No.: 2004-221-01  
 Lab ID: 2004-221-01-09

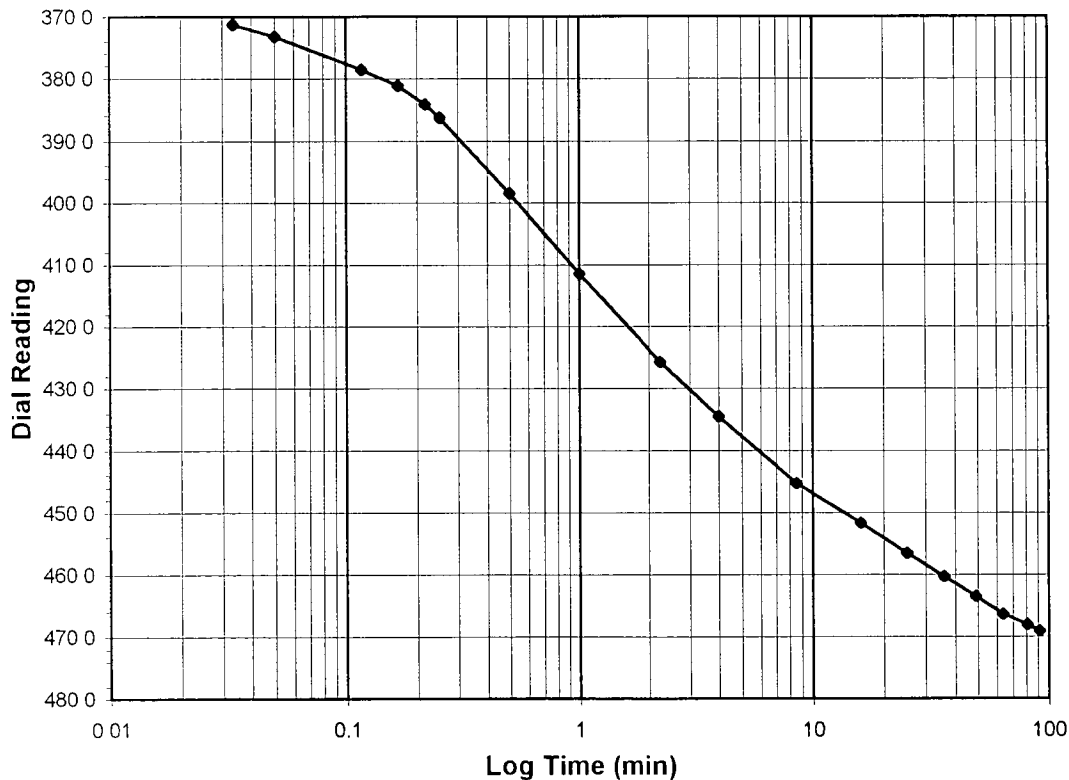
Boring No.: NA  
 Depth (ft): NA  
 Sample No.: SS14-DUP  
 Visual Description: BROWNISH GRAY STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf): 0.25-0.5  
 Final Reading (div): 469.1  
 Consolidometer No.: 1  
 1 Division (in): 0.0001  
 Start Date: 8/10/04  
 Start Time: 10:08:49

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	351.4
0.03	371.3
0.05	373.2
0.12	378.6
0.17	381.1
0.22	384.2
0.25	386.3
0.50	398.4
1.00	411.5
2.25	425.8
4.00	434.5
8.57	445.3
16.00	451.7
25.00	456.6
36.00	460.2
49.00	463.5
64.00	466.4
81.00	468.1
91.35	469.1



Tested By: TM Date: 8/10/04 Checked By: GU Date: 8/17/04





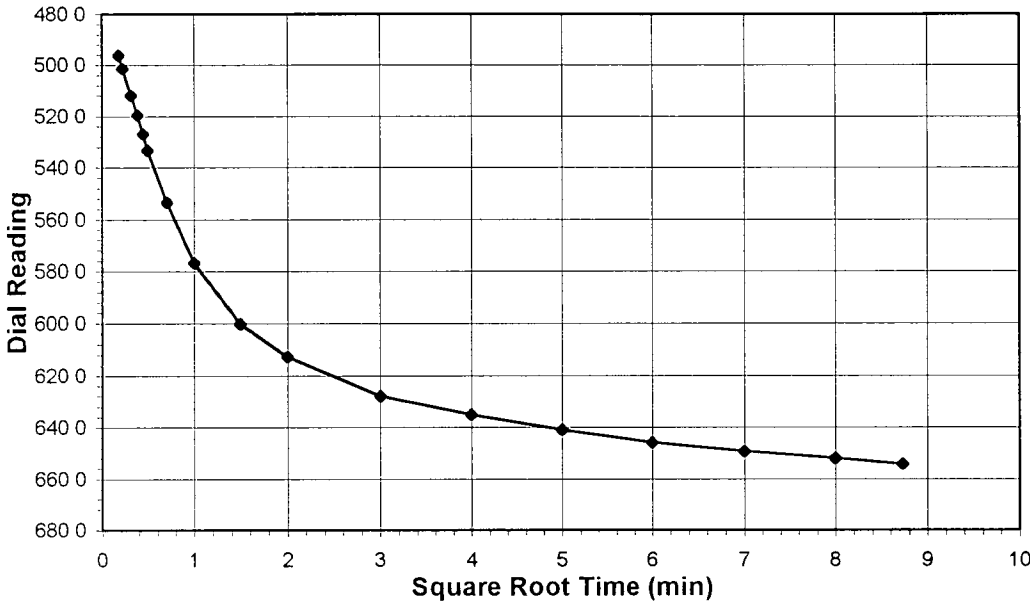
# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE  
 Client Project: GEHR TREATABILITY 204.302  
 Project No.: 2004-221-01  
 Lab ID: 2004-221-01-09

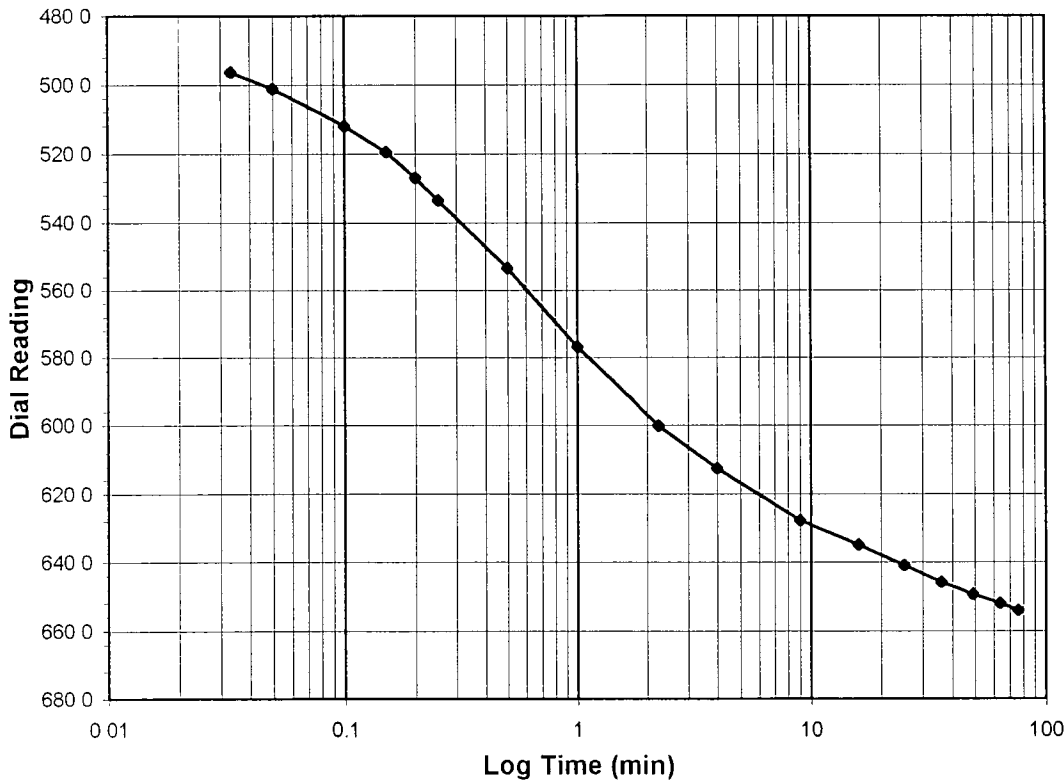
Boring No.: NA  
 Depth (ft): NA  
 Sample No.: SS14-DUP  
 Visual Description: BROWNISH GRAY STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf): 0.5-1.0  
 Final Reading (div): 654.1  
 Consolidometer No.: 1  
 1 Division (in): 0.0001  
 Start Date: 8/10/04  
 Start Time: 11:46:01

Elapsed Time (min)	Dial Reading (div)
Initial	469.1
0.03	496.3
0.05	501.3
0.10	511.9
0.15	519.5
0.20	527.0
0.25	533.4
0.50	553.5
1.00	576.9
2.25	600.1
4.00	612.7
9.02	627.8
16.00	635.0
25.00	641.0
36.00	645.9
49.00	649.4
64.00	652.1
76.27	654.1



Tested By: TM Date: 8/10/04 Checked By: GU Date: 8/17/04



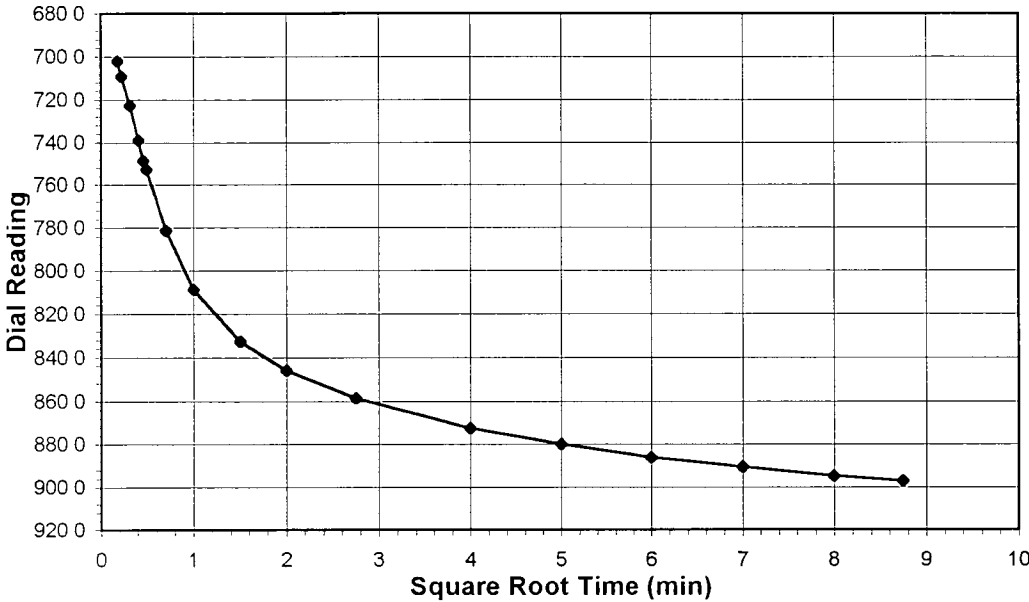
# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE  
 Client Project: GEHR TREATABILITY 204.302  
 Project No: 2004-221-01  
 Lab ID: 2004-221-01-09

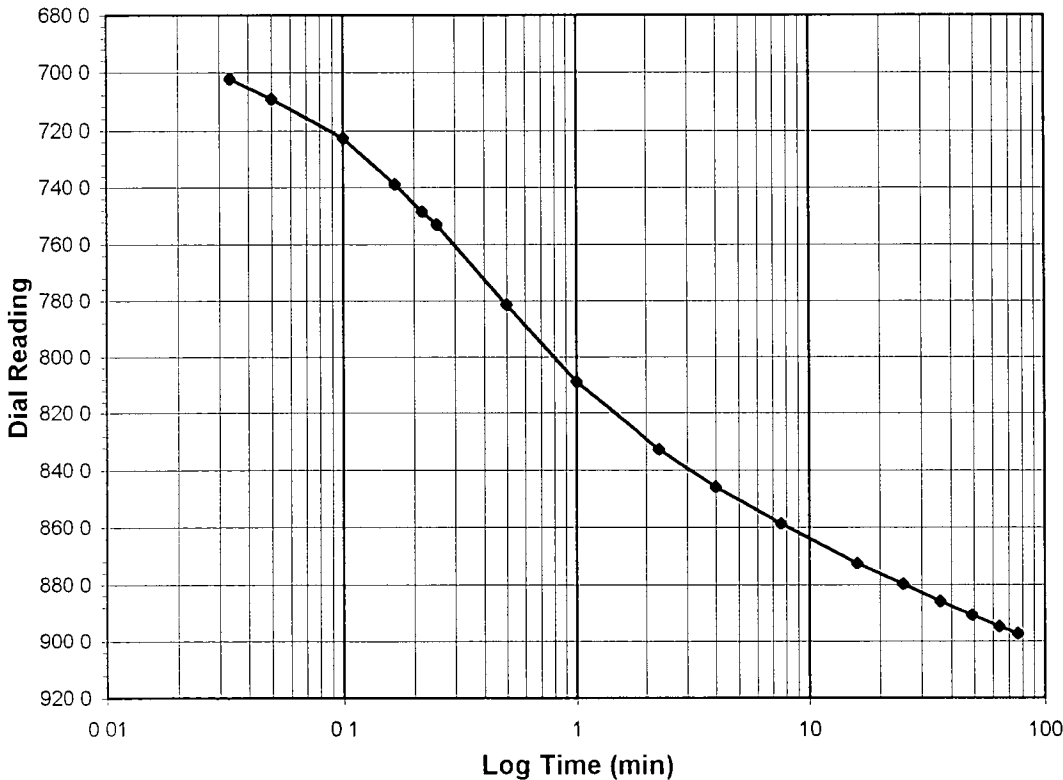
Boring No.: NA  
 Depth (ft): NA  
 Sample No.: SS14-DUP  
 Visual Description: BROWNISH GRAY STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf): 1.0-2.0  
 Final Reading (div): 897.1  
 Consolidometer No.: 1  
 1 Division (in): 0.0001  
 Start Date: 8/10/04  
 Start Time: 13:08:11

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>654.1</b>
0.03	702.2
0.05	709.2
0.10	722.6
0.17	738.9
0.22	748.6
0.25	752.9
0.50	781.5
1.00	809.0
2.27	832.8
4.00	846.0
7.58	858.7
16.00	872.7
25.00	879.9
36.00	886.0
49.00	890.7
64.00	894.7
76.47	897.1



Tested By: TM Date: 8/10/04 Checked By: GU Date: 8/17/04



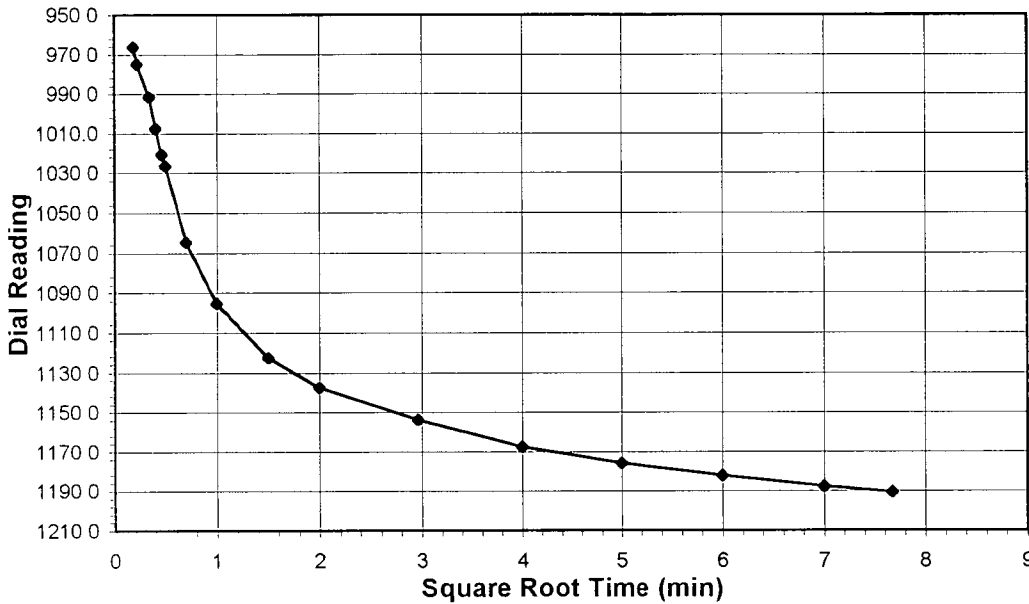
# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE  
 Client Project: GEHR TREATABILITY 204.302  
 Project No.: 2004-221-01  
 Lab ID: 2004-221-01-09

Boring No.: NA  
 Depth (ft): NA  
 Sample No.: SS14-DUP  
 Visual Description: BROWNISH GRAY STABILIZED MATERIAL

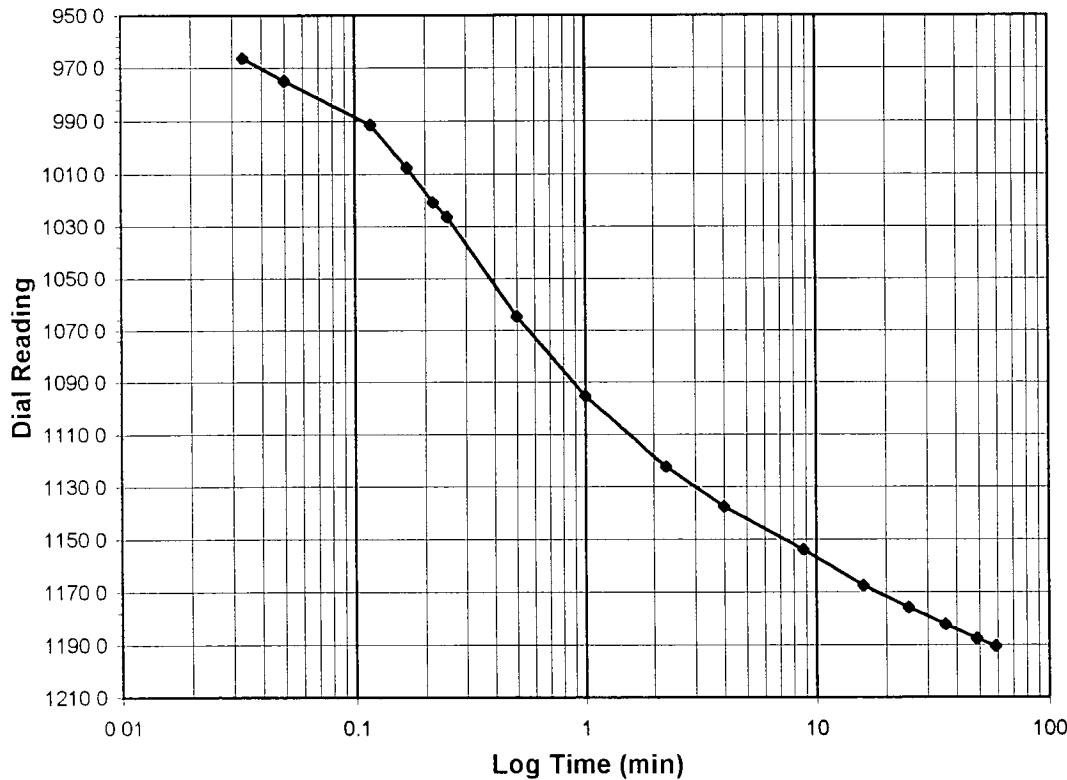
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf): 2.0-4.0  
 Final Reading (div): 1190.5  
 Consolidometer No.: 1  
 1 Division (in): 0.0001

Start Date: 8/10/04  
 Start Time: 14:29:08

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>897.1</b>
0.03	966.4
0.05	974.9
0.12	991.5
0.17	1007.5
0.22	1020.7
0.25	1026.5
0.50	1064.7
1.00	1095.2
2.25	1122.4
4.00	1137.4
8.78	1153.8
16.00	1167.5
25.00	1175.9
36.00	1182.3
49.00	1187.5
58.93	1190.5



Tested By: TM Date: 8/10/04 Checked By: GU Date: 8/17-04



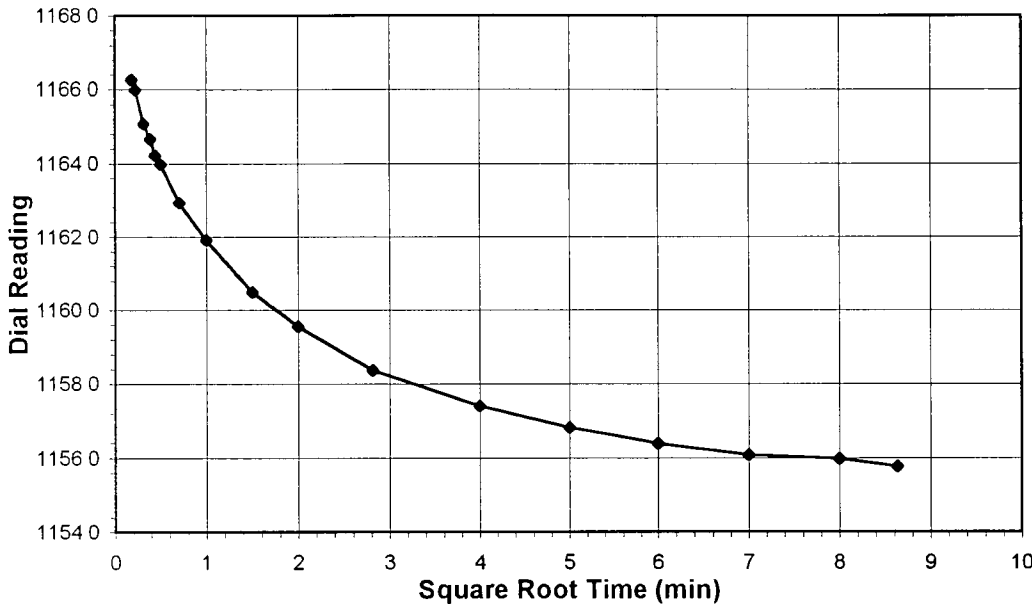
# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE  
 Client Project: GEHR TREATABILITY 204.302  
 Project No.: 2004-221-01  
 Lab ID: 2004-221-01-09

Boring No.: NA  
 Depth (ft): NA  
 Sample No.: SS14-DUP  
 Visual Description: BROWNISH GRAY STABILIZED MATERIAL

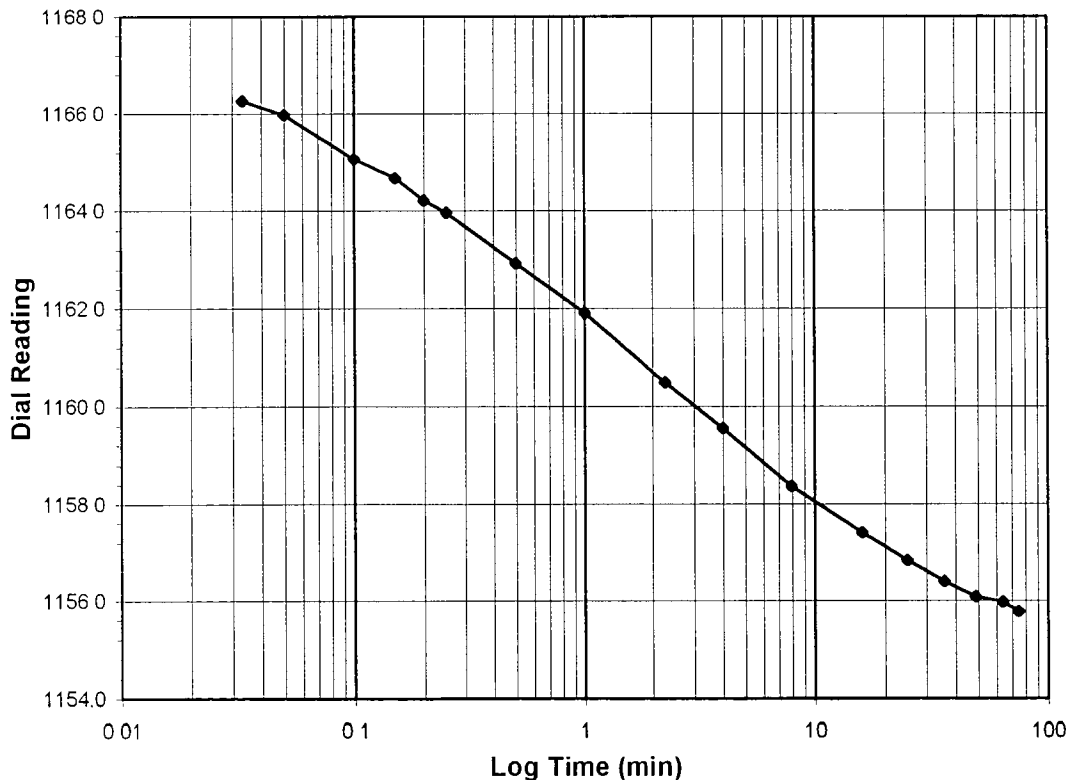
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf): 4.0-1.0  
 Final Reading (div): 1155.8  
 Consolidometer No.: 1  
 1 Division (in): 0.0001

Start Date: 8/10/04  
 Start Time: 15:32:45

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	1190.5
0.03	1166.3
0.05	1166.0
0.10	1165.1
0.15	1164.7
0.20	1164.2
0.25	1164.0
0.50	1162.9
1.00	1161.9
2.25	1160.5
4.00	1159.6
7.93	1158.4
16.00	1157.4
25.00	1156.8
36.00	1156.4
49.00	1156.1
64.00	1156.0
74.58	1155.8



Tested By: TM Date: 8/10/04 Checked By: GU Date: 8/17/04



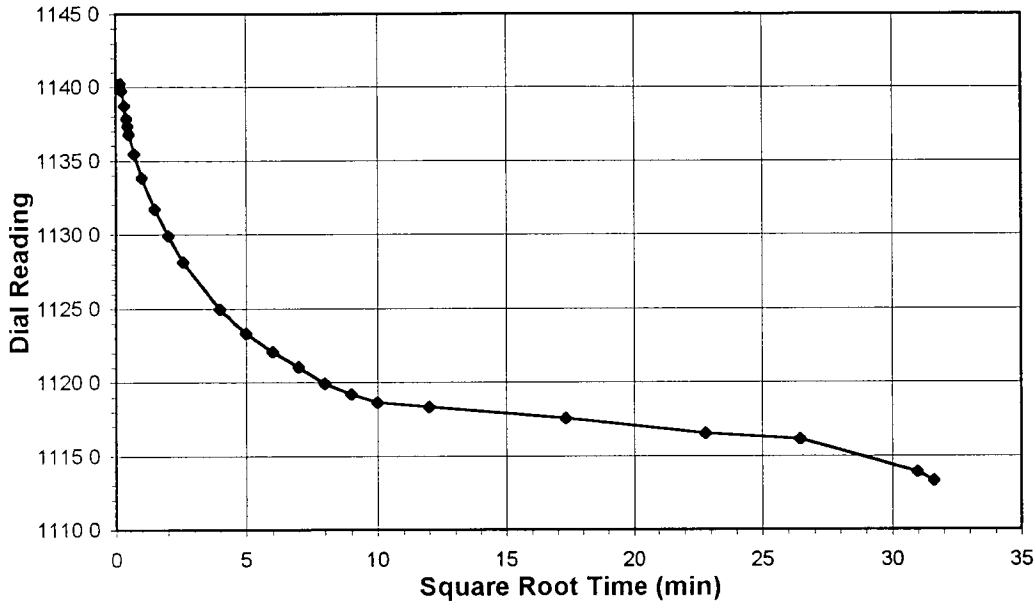
# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE  
 Client Project: GEHR TREATABILITY 204.302  
 Project No.: 2004-221-01  
 Lab ID: 2004-221-01-09

Boring No.: NA  
 Depth (ft): NA  
 Sample No.: SS14-DUP  
 Visual Description: BROWNISH GRAY STABILIZED MATERIAL

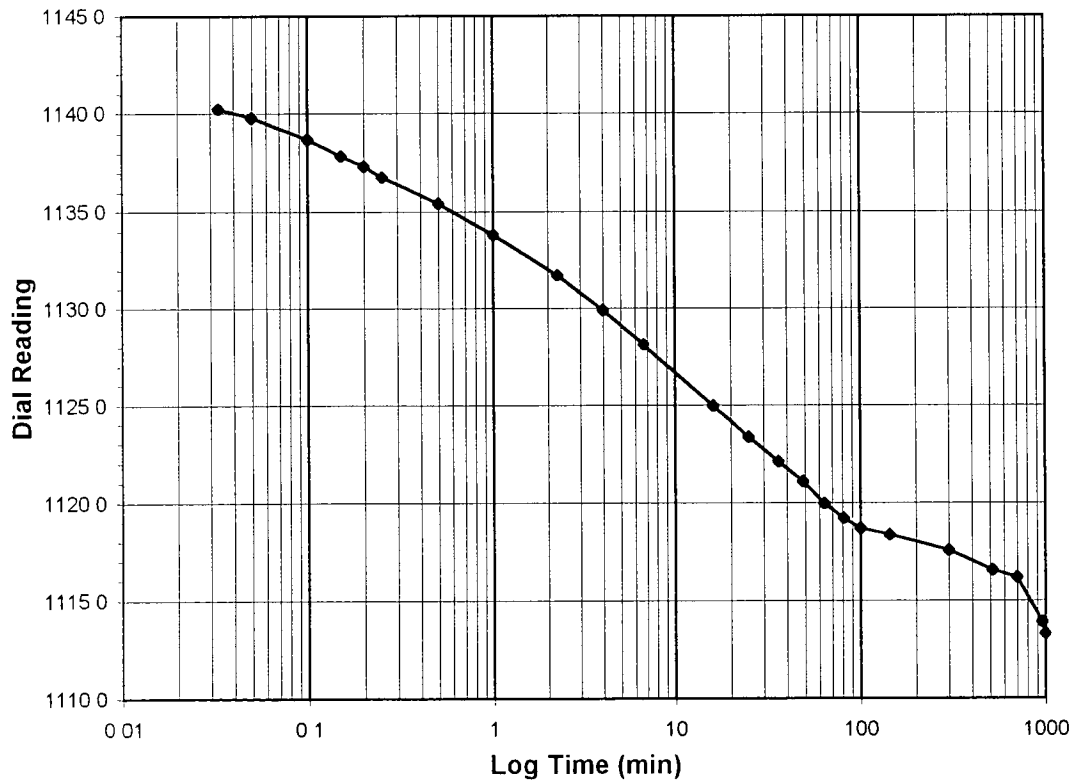
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf): 1.0-0.25  
 Final Reading (div): 1113.3  
 Consolidometer No.: 1  
 1 Division (in): 0.0001

Start Date: 8/10/04  
 Start Time: 16:51:17

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	1155.8
0.03	1140.2
0.05	1139.8
0.10	1138.7
0.15	1137.9
0.20	1137.4
0.25	1136.8
0.50	1135.4
1.00	1133.8
2.25	1131.7
4.00	1129.9
6.70	1128.1
16.00	1125.0
25.00	1123.3
36.02	1122.1
49.02	1121.1
64.00	1120.0
81.00	1119.2
100.00	1118.7
144.02	1118.4
300.00	1117.6
520.00	1116.5
700.00	1116.2
960.00	1113.9
999.92	1113.3



Tested By: TM Date: 8/10/04 Checked By: GD Date: 8/17/04



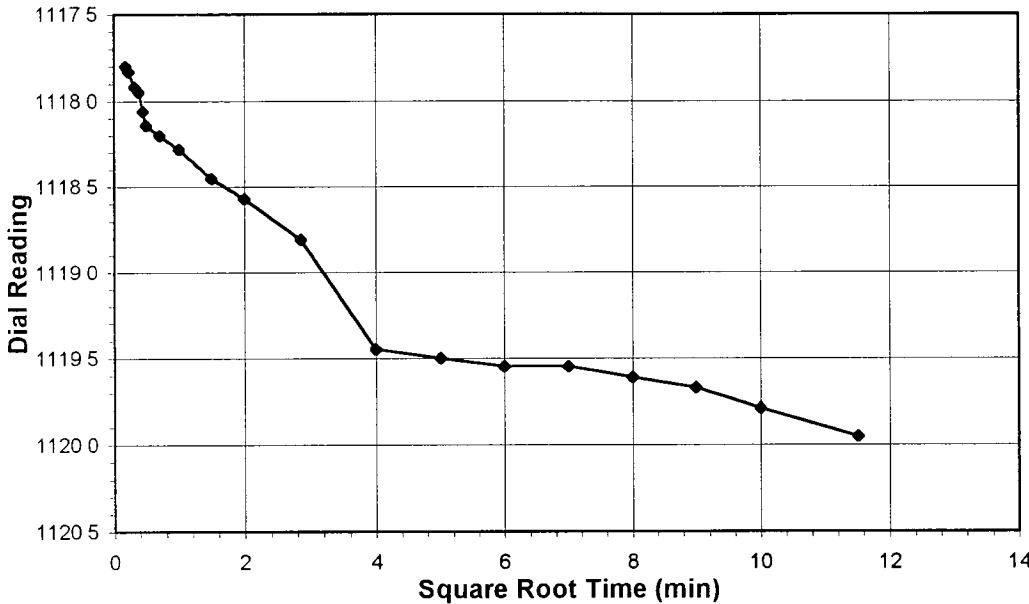
# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE  
 Client Project: GEHR TREATABILITY 204.302  
 Project No.: 2004-221-01  
 Lab ID: 2004-221-01-09

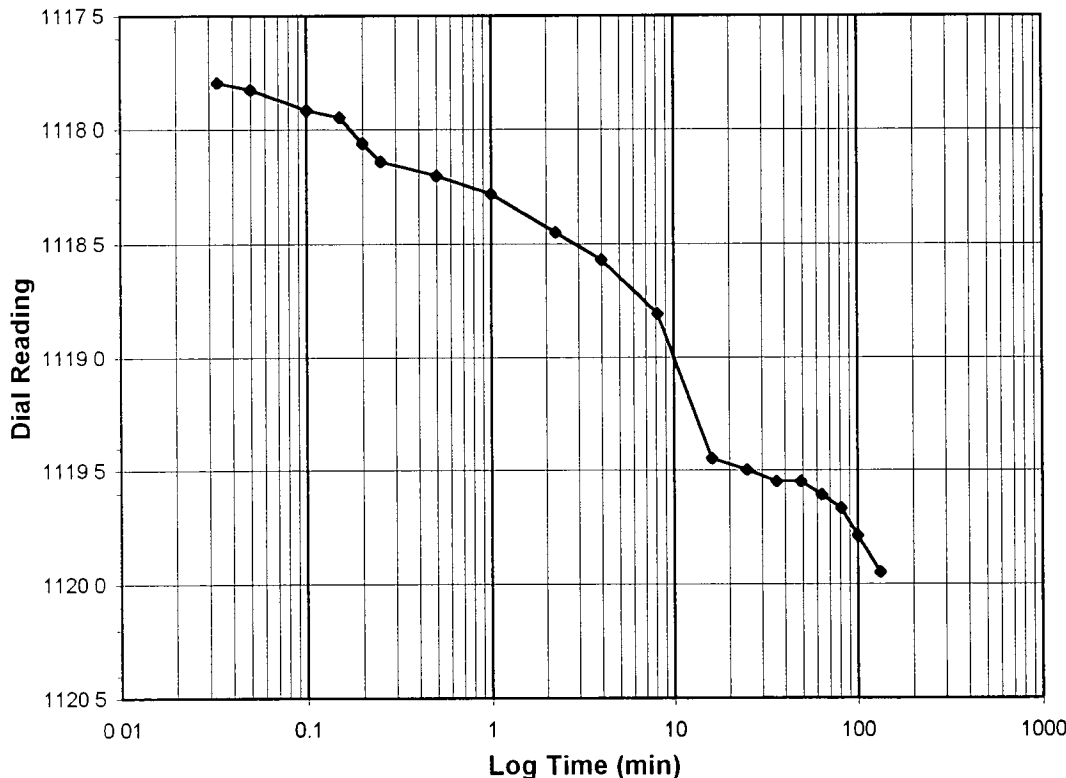
Boring No.: NA  
 Depth (ft): NA  
 Sample No.: SS14-DUP  
 Visual Description: BROWNISH GRAY STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf): 0.25-0.5  
 Final Reading (div): 1120.0  
 Consolidometer No.: 1  
 1 Division (in): 0.0001  
 Start Date: 8/11/04  
 Start Time: 9:43:23

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>1113.3</b>
0.03	1117.8
0.05	1117.8
0.10	1117.9
0.15	1118.0
0.20	1118.1
0.25	1118.1
0.50	1118.2
1.00	1118.3
2.25	1118.5
4.00	1118.6
8.18	1118.8
16.00	1119.5
25.00	1119.5
36.00	1119.6
49.00	1119.6
64.00	1119.6
81.00	1119.7
100.00	1119.8
132.60	1120.0



Tested By: TM Date: 8/11/04 Checked By: GO Date: 8/17/04



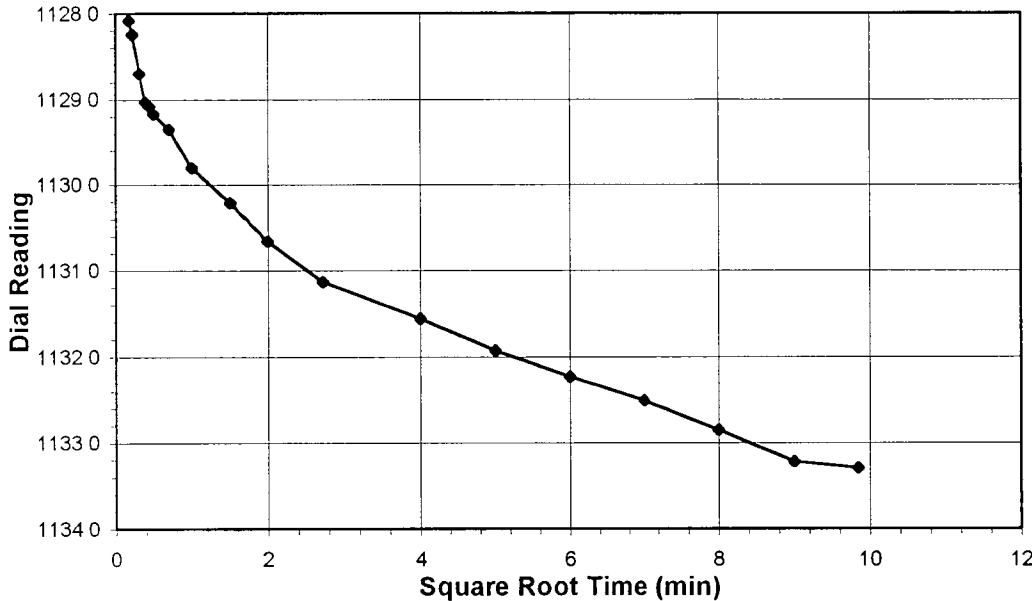
# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE  
 Client Project: GEHR TREATABILITY 204.302  
 Project No.: 2004-221-01  
 Lab ID: 2004-221-01-09

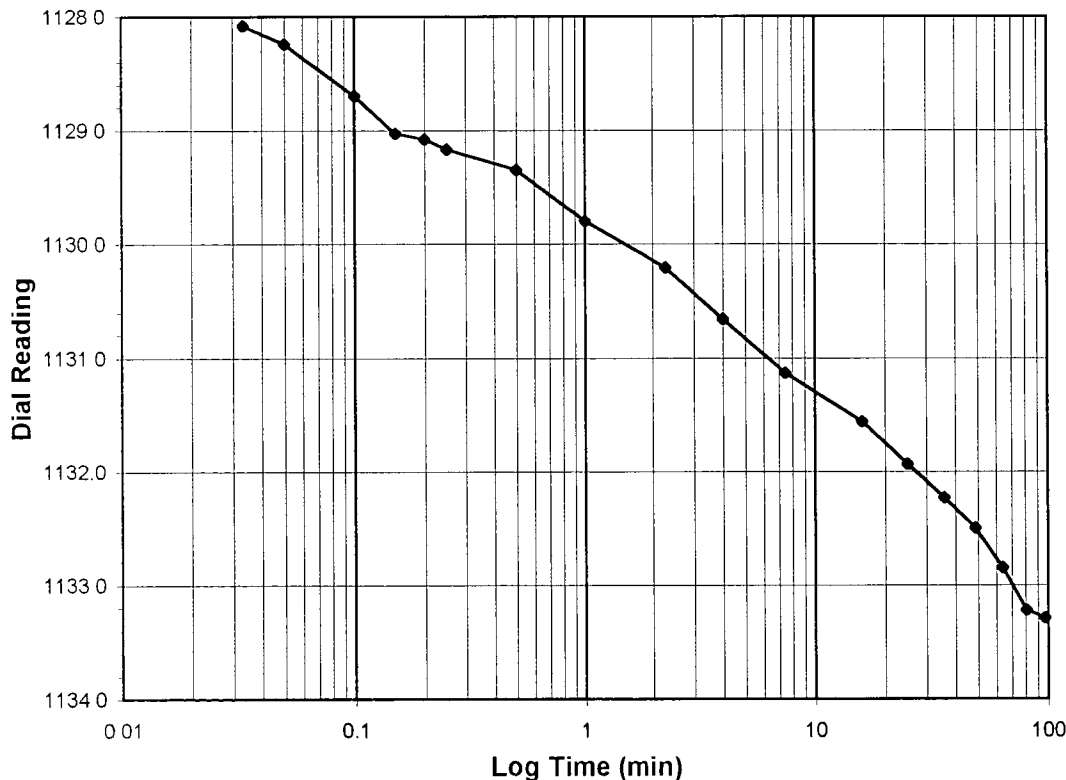
Boring No.: NA  
 Depth (ft): NA  
 Sample No.: SS14-DUP  
 Visual Description: BROWNISH GRAY STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf): 0.5-1.0  
 Final Reading (div): 1133.3  
 Consolidometer No.: 1  
 1 Division (in): 0.0001  
 Start Date: 8/11/04  
 Start Time: 12:08:25

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>1120.0</b>
0.03	1128.1
0.05	1128.2
0.10	1128.7
0.15	1129.0
0.20	1129.1
0.25	1129.2
0.50	1129.4
1.00	1129.8
2.27	1130.2
4.00	1130.7
7.43	1131.1
16.00	1131.6
25.00	1131.9
36.00	1132.2
49.00	1132.5
64.02	1132.9
81.00	1133.2
97.03	1133.3



Tested By: TM Date: 8/11/04 Checked By: GU Date: 8/17/04



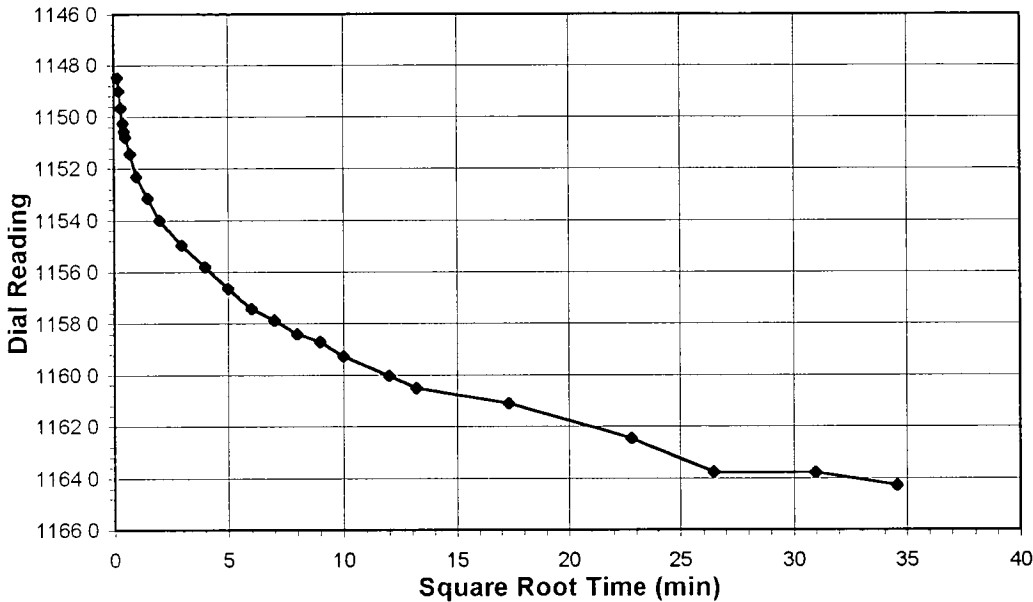
# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE  
 Client Project: GEHR TREATABILITY 204.302  
 Project No: 2004-221-01  
 Lab ID: 2004-221-01-09

Boring No.: NA  
 Depth (ft): NA  
 Sample No.: SS14-DUP  
 Visual Description: BROWNISH GRAY STABILIZED MATERIAL

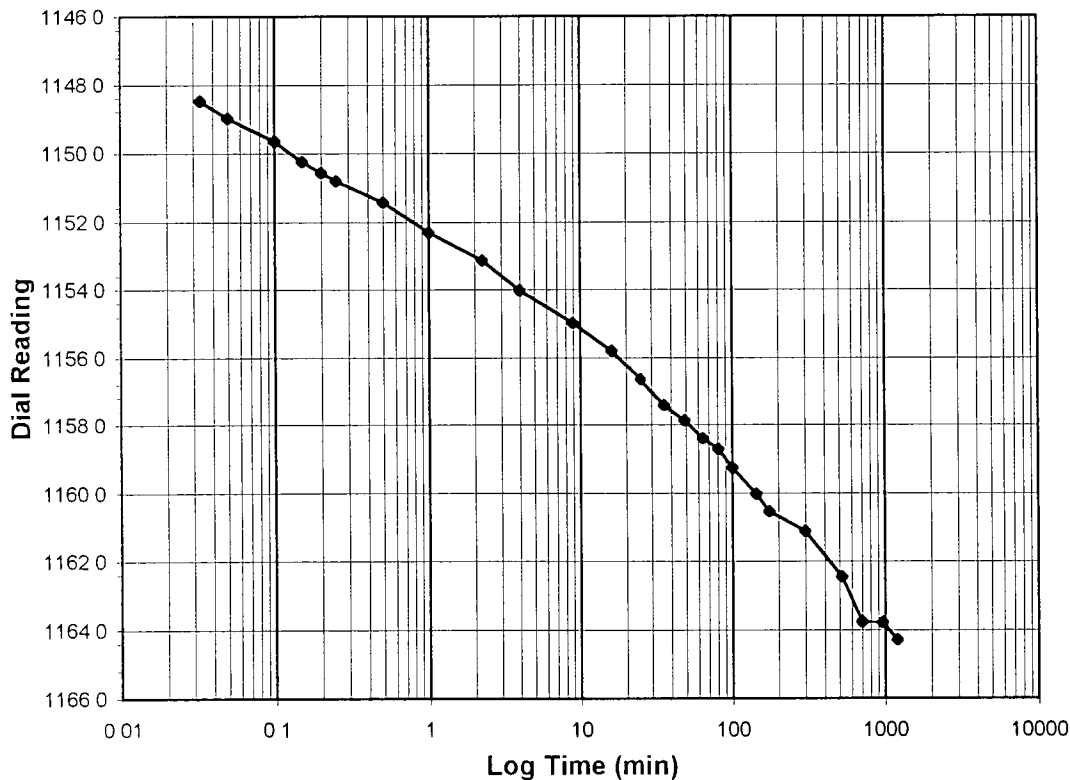
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf): 1.0-2.0  
 Final Reading (div): 1164.3  
 Consolidometer No.: 1  
 1 Division (in): 0.0001

Start Date: 8/11/04  
 Start Time: 13:47:58

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>1133.3</b>
0.03	1148.5
0.05	1149.0
0.10	1149.7
0.15	1150.3
0.20	1150.6
0.25	1150.8
0.50	1151.4
1.00	1152.3
2.25	1153.1
4.00	1154.0
8.86	1155.0
16.00	1155.8
25.00	1156.6
36.00	1157.4
49.00	1157.9
64.00	1158.4
81.00	1158.7
100.00	1159.3
144.00	1160.0
174.32	1160.5
300.00	1161.1
520.00	1162.5
700.00	1163.8
960.00	1163.8
1195.00	1164.3



Tested By: TM Date: 8/11/04 Checked By: GU Date: 8/17/04





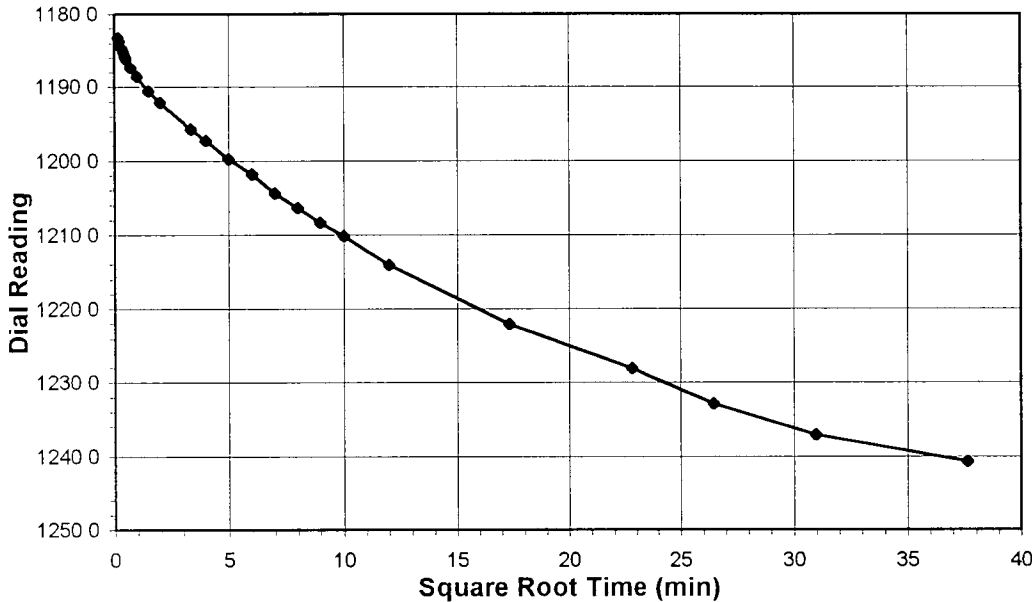
# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE  
 Client Project: GEHR TREATABILITY 204.302  
 Project No.: 2004-221-01  
 Lab ID: 2004-221-01-09

Boring No.: NA  
 Depth (ft): NA  
 Sample No.: SS14-DUP  
 Visual Description: BROWNISH GRAY STABILIZED MATERIAL

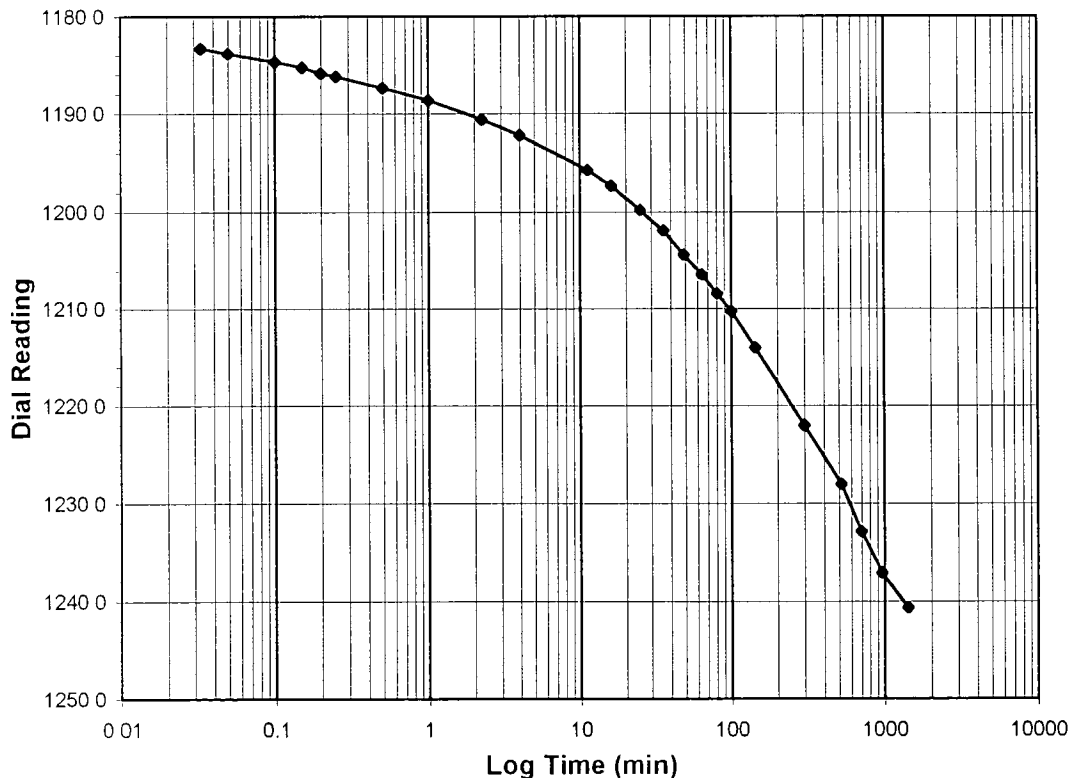
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf): 2.0-4.0  
 Final Reading (div): 1240.7  
 Consolidometer No.: 1  
 1 Division (in): 0.0001

Start Date: 8/12/04  
 Start Time: 9:49:44

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>1164.3</b>
0.03	1183.3
0.05	1183.8
0.10	1184.7
0.15	1185.2
0.20	1185.8
0.25	1186.2
0.50	1187.4
1.00	1188.6
2.25	1190.6
4.00	1192.2
11.18	1195.7
16.00	1197.3
25.00	1199.8
36.00	1201.9
49.00	1204.4
64.02	1206.4
81.00	1208.4
100.00	1210.2
144.00	1214.0
300.00	1222.0
520.00	1228.1
700.02	1232.9
960.00	1237.1
1418.17	1240.7



Tested By: TM Date: 8/12/04 Checked By: GU Date: 8/17/04



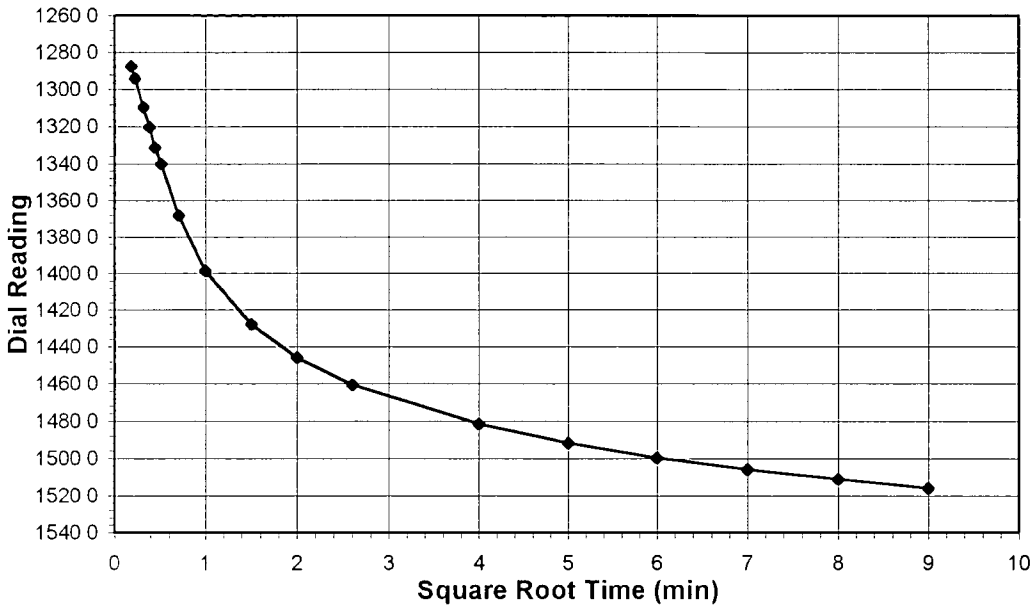
# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE  
 Client Project: GEHR TREATABILITY 204.302  
 Project No.: 2004-221-01  
 Lab ID: 2004-221-01-09

Boring No.: NA  
 Depth (ft): NA  
 Sample No.: SS14-DUP  
 Visual Description: BROWNISH GRAY STABILIZED MATERIAL

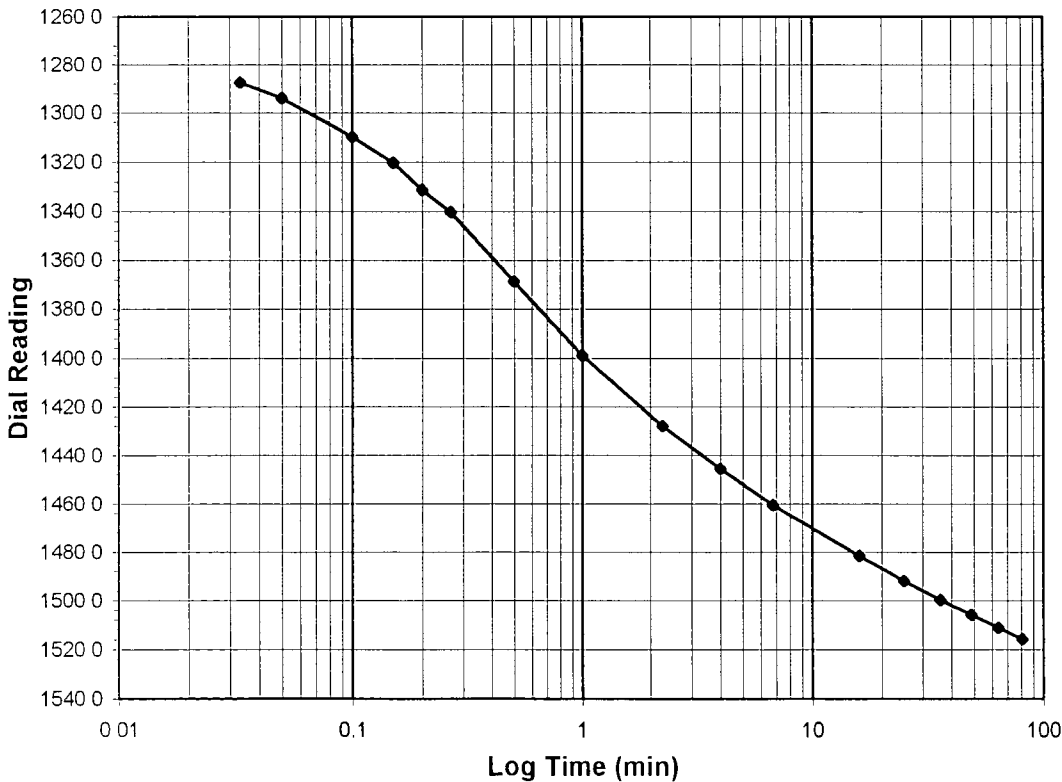
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf): 4.0-8.0  
 Final Reading (div): 1515.8  
 Consolidometer No.: 1  
 1 Division (in): 0.0001

Start Date: 8/13/04  
 Start Time: 9:40:23

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>1240.7</b>
0.03	1287.5
0.05	1294.0
0.10	1309.7
0.15	1320.2
0.20	1331.1
0.27	1340.2
0.50	1368.5
1.00	1398.8
2.25	1427.9
4.00	1445.7
6.78	1460.6
16.00	1481.7
25.00	1491.9
36.00	1499.7
49.00	1505.9
64.02	1511.2
81.00	1515.8



Tested By: TM Date: 8/13/04 Checked By: GU Date: 8/17/04



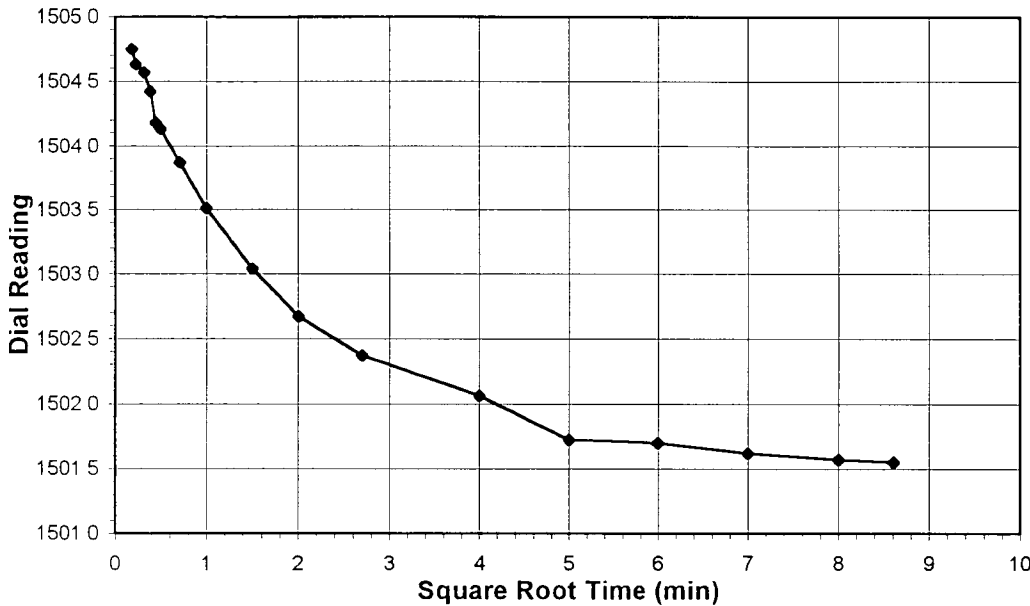
# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE  
 Client Project: GEHR TREATABILITY 204.302  
 Project No: 2004-221-01  
 Lab ID: 2004-221-01-09

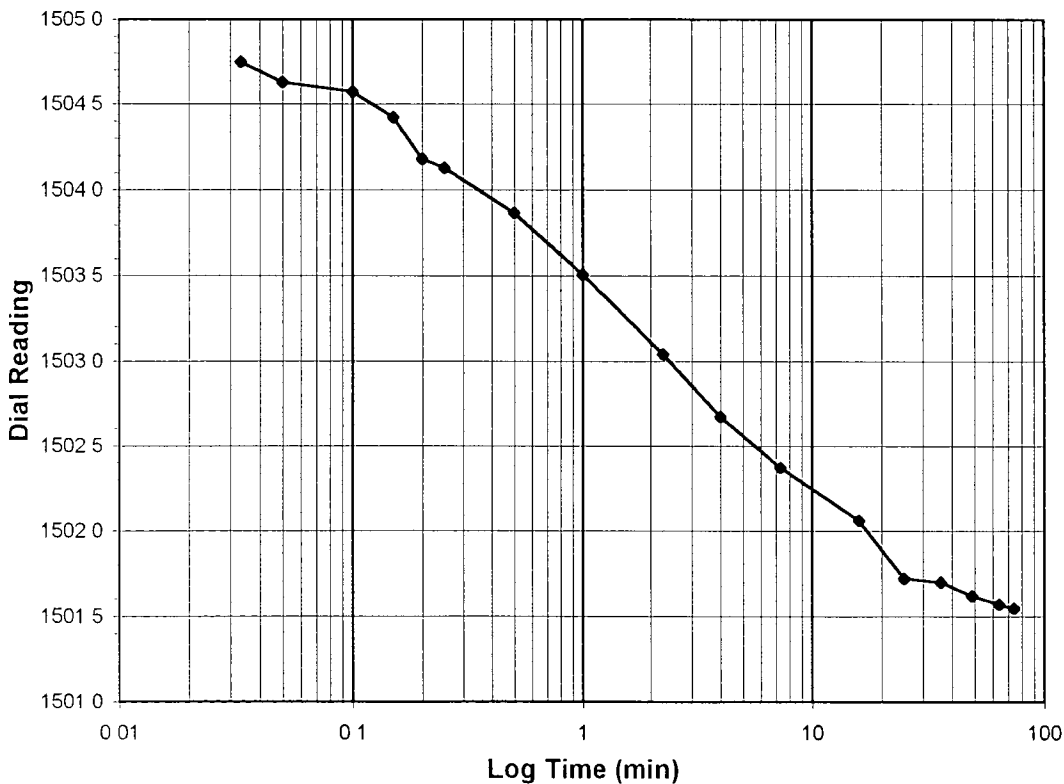
Boring No.: NA  
 Depth (ft): NA  
 Sample No.: SS14-DUP  
 Visual Description: BROWNISH GRAY STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf): 8.0-4.0  
 Final Reading (div): 1501.6  
 Consolidometer No.: 1  
 1 Division (in): 0.0001  
 Start Date: 8/13/04  
 Start Time: 11:08:46

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>1515.8</b>
0.03	1504.8
0.05	1504.6
0.10	1504.6
0.15	1504.4
0.20	1504.2
0.25	1504.1
0.50	1503.9
1.00	1503.5
2.25	1503.0
4.02	1502.7
7.32	1502.4
16.00	1502.1
25.00	1501.7
36.00	1501.7
49.00	1501.6
64.00	1501.6
74.12	1501.6



Tested By: TM Date: 8/13/04 Checked By: G.U Date: 8/17/04



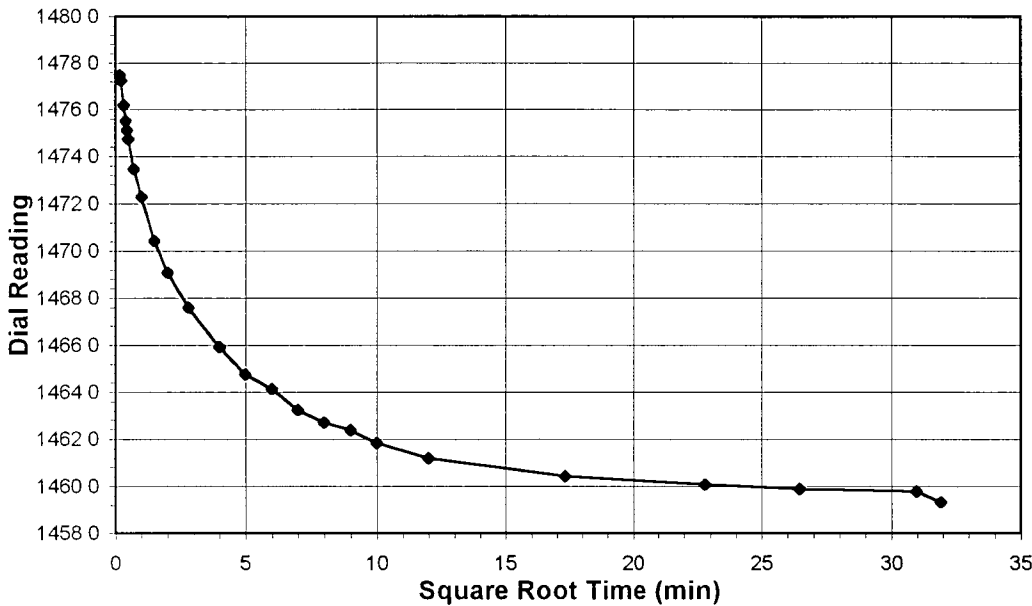
# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE  
 Client Project: GEHR TREATABILITY 204.302  
 Project No.: 2004-221-01  
 Lab ID: 2004-221-01-09

Boring No.: NA  
 Depth (ft): NA  
 Sample No.: SS14-DUP  
 Visual Description: BROWNISH GRAY STABILIZED MATERIAL

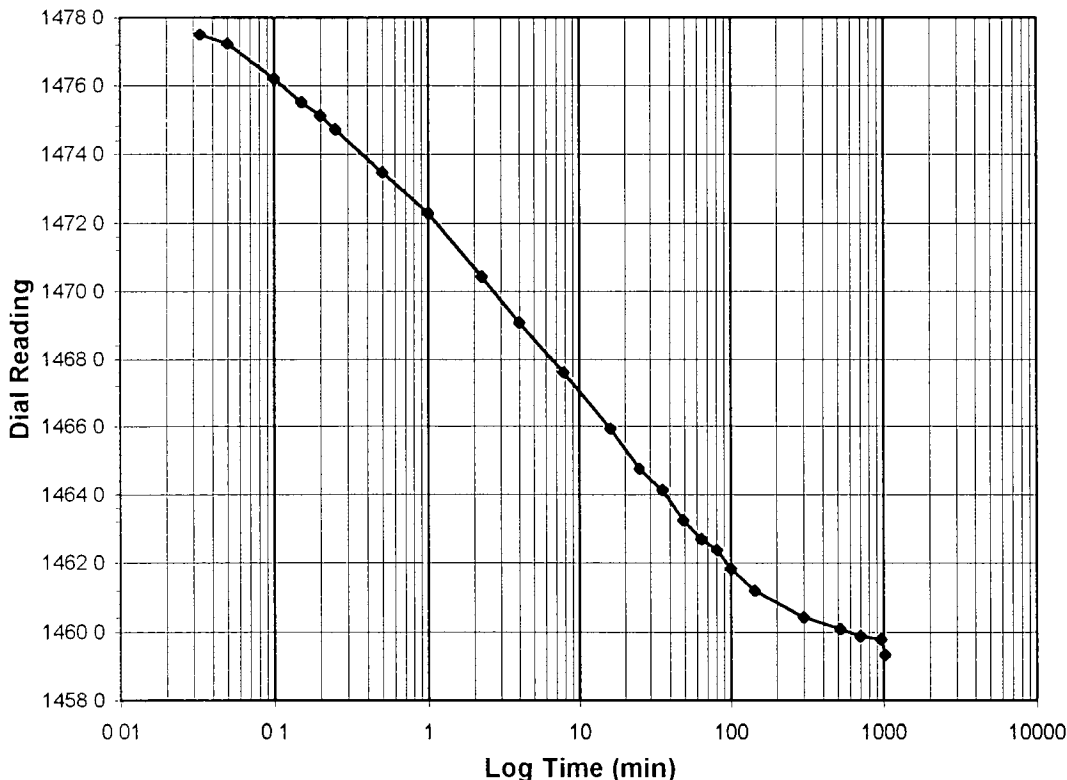
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf): 4.0-1.0  
 Final Reading (div): 1459.3  
 Consolidometer No.: 1  
 1 Division (in): 0.0001

Start Date: 8/13/04  
 Start Time: 12:29:39

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>1501.6</b>
0.03	1477.5
0.05	1477.2
0.10	1476.2
0.15	1475.5
0.20	1475.1
0.25	1474.7
0.50	1473.5
1.00	1472.3
2.25	1470.4
4.00	1469.1
7.82	1467.6
16.00	1466.9
25.00	1466.8
36.00	1466.1
49.00	1463.2
64.00	1462.7
81.00	1462.4
100.00	1461.8
144.00	1461.2
300.00	1460.4
520.00	1460.1
700.00	1459.9
960.00	1459.8
1018.60	1459.3



Tested By: TM Date: 8/13/04 Checked By: GU Date: 8/17/04

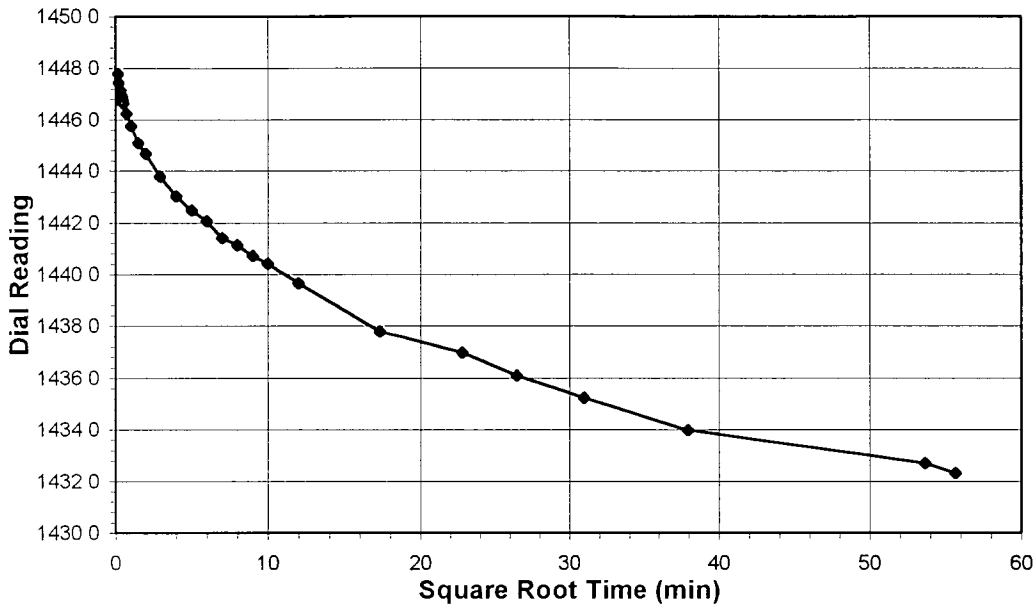


**ONE DIMENSIONAL CONSOLIDATION**  
ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE  
 Client Project: GEHR TREATABILITY 204.302  
 Project No.: 2004-221-01  
 Lab ID: 2004-221-01-09

Boring No.: NA  
 Depth (ft): NA  
 Sample No.: SS14-DUP  
 Visual Description: BROWNISH GRAY STABILIZED MATERIAL

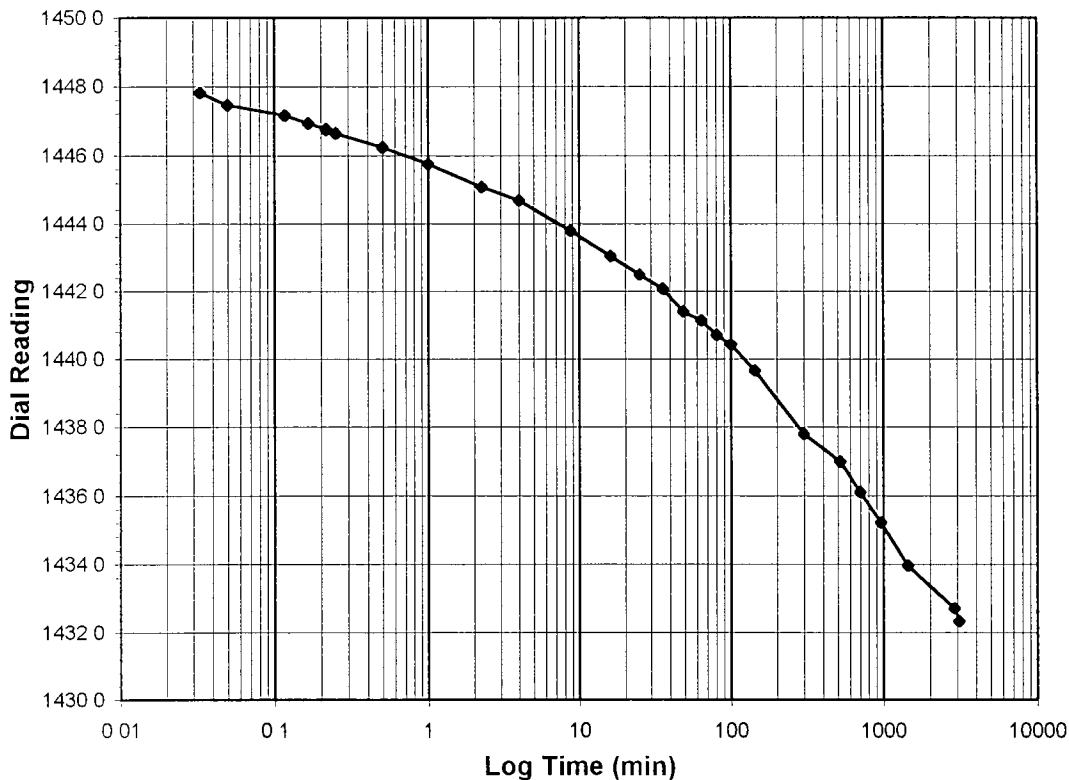
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf): 1.0-0.25  
 Final Reading (div): 1432.3  
 Consolidometer No.: 1  
 1 Division (in): 0.0001

Start Date: 8/14/04  
 Start Time: 5:47:52

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>1459.3</b>
0.03	1447.8
0.05	1447.5
0.12	1447.1
0.17	1446.9
0.22	1446.8
0.25	1446.6
0.50	1446.3
1.00	1445.8
2.25	1445.1
4.00	1444.7
8.72	1443.8
16.00	1443.0
25.00	1442.5
36.00	1442.1
49.00	1441.4
64.00	1441.1
81.00	1440.7
100.00	1440.4
144.00	1439.7
300.00	1437.8
520.00	1437.0
700.00	1436.1
960.00	1435.2
1440.00	1434.0
2880.00	1432.7
3098.65	1432.3



Tested By: TM Date: 8/14/04 Checked By: G.U Date: 8/17/04

**LABORATORY TEST REPORT**

September 24, 2004

Project No. 2004-221-02

Mr. Pat Foos  
Blasland, Bouck, & Lee, Inc.  
6723 Towpath Road  
Syracuse, NY 13214

RE: Soils Testing - GEHR Treatability 204.302

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Transmitted herein are the results of the soils testing performed for the above referenced project and verified on the Project Verification Form, submitted August 27, 2004. The testing was performed in general accordance with the ASTM methods listed on the enclosed data sheets. The remaining sample materials for this project will be retained for a minimum of 90 days as directed by the Geotechnics' Quality Program.

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**Disclaimer**

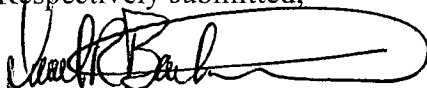
The test results are believed to be representative of the samples submitted but are indicative only of the specimens which were evaluated. Geotechnics has no direct knowledge of the origin of the samples, implies no position with regard to the disposition of the test results, i.e. pass/fail, and makes no claims as to the suitability of the material for its intended use.

The test data and all associated project information provided shall be held in strict confidence and disclosed to other parties only with authorization of the Client and Geotechnics. The test data submitted herein is considered integral with this report and is not to be reproduced except in whole and only with the authorization of the Client and Geotechnics.

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We are pleased to provide these testing services. Should you have any questions or if we may be of further assistance, please do not hesitate to contact our office.

Respectively submitted,



David R. Backstrom  
Laboratory Director

**UNCONFINED COMPRESSIVE STRENGTH**  
ASTM D2166-00 (SOP S-30)



Client BLASLAND, BOUCK, AND LEE  
 Client Reference GEHR TREATABILITY 204.302  
 Project No. 2004-221-02  
 Lab ID 2004-221-02-01

Boring No. NA  
 Depth (ft.) NA  
 Sample No. SS-52  
 Visual BROWN STABILIZED SLUDGE

INITIAL SAMPLE DIMENSIONS			
Length 1(in)	3.773	Top Dia. (in)	2.022
Length 2(in)	3.684	Mid. Dia. (in)	2.000
Length 3(in)	3.751	Bot. Dia. (in)	2.015
Avg.Length(in)	3.736	Area (in.^2)	3.180

WATER CONTENT AFTER TEST	
Tare No.	662
Wt. Tare + WS (gms)	191.28
Wt. Tare + DS.(gms)	176.23
Wt. of Tare(gms)	97.43
% Moisture	19.10

UNIT WEIGHT			
Wt. Tube & WS.(gms.)	357.6	Sample Volume(cc)	194.7
Wt. Of Tube(gms.)	0.0	Unit Wet Wt.(gms/cc)	1.84
Wt. Of WS.(gms.)	357.55	Unit Wet Wt.(pcf.)	114.58
Diameter (in.)	2.01	Moisture Content, %	19.10
Length (in.)	3.74	Unit Dry Wt.(pcf.)	96.21
Length (cm.)	9.49		

DEFORMATION (in)	LOAD (lbs)	ELAPSED TIME (min.)	STRAIN (%)	STRESS (psi)
0.000	0.9	0.00	0.00	0.00
0.002	2.3	0.05	0.04	0.46
0.004	4.3	0.12	0.10	1.08
0.007	9.3	0.25	0.20	2.65
0.013	18.3	0.43	0.35	5.48
0.020	34.1	0.68	0.55	10.40
0.030	56.8	1.00	0.80	17.46
0.037	63.0	1.27	1.00	19.34
0.048	80.2	1.63	1.29	24.63
0.063	100.0	2.13	1.69	30.64
0.078	106.0	2.63	2.09	32.38
0.100	113.9	3.38	2.68	34.59
0.115	116.7	3.88	3.07	35.31
0.145	109.4	4.88	3.87	32.81
0.174	96.8	5.88	4.66	28.76
0.204	91.3	6.90	5.47	26.87
0.223	86.4	7.52	5.96	25.30
0.260	73.5	8.77	6.95	21.26
0.278	58.8	9.40	7.45	16.87

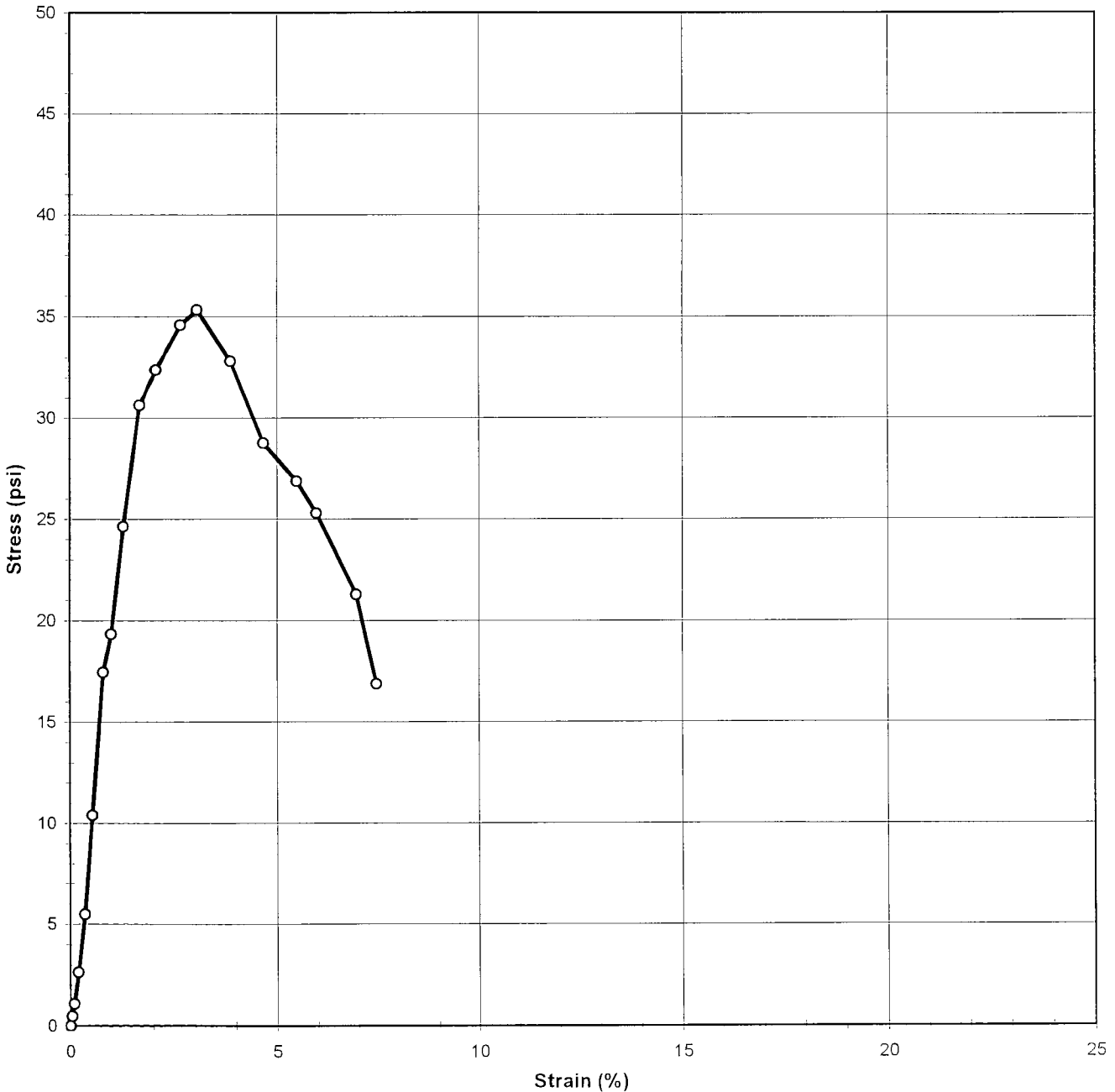
Tested By JCM

Date 09/17/04 Input Checked By *ABC*

Date *9-21-04*

**UNCONFINED COMPRESSIVE STRENGTH**  
ASTM D2166-00 (SOP S-30)

Client	BLASLAND, BOUCK, AND LEE	Boring No	NA
Client Reference	GEHR TREATABILITY 204.302	Depth (ft.)	NA
Project No	2004-221-02	Sample No.	SS-52
Lab ID	2004-221-02-01	Visual	BROWN STABILIZED SLUDGE



Tested By JCM

Date 09/17/04

Approved By *DB*

Date *9/21/04*



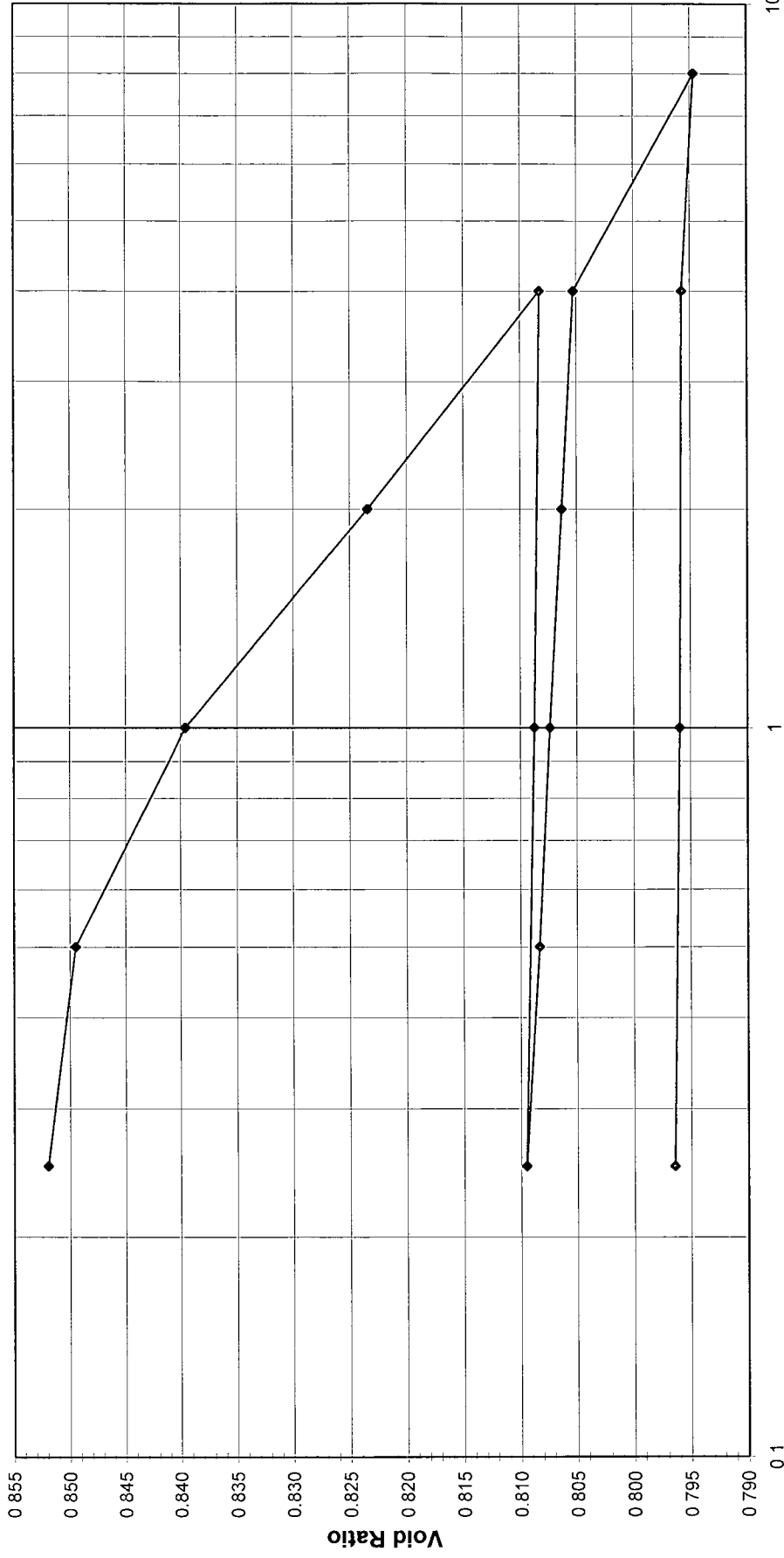


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 / AASHTO T216-03 (SOP-S24)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Reference	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-02	Sample No.	SS-52
Lab ID	2004-221-02-01	Visual Description	BLACK STABILIZED MATERIAL WITH

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Log P (tsf)

Tested By TM Date 9/1/04 Approved By DB Date 9/14/04



# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 / AASHTO T216-03 (SOP-S24)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Reference	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-02	Sample No.	SS-52
Lab ID	2004-221-02-01	Visual Description	BLACK STABILIZED MATERIAL WITH ROCK FRAGMENTS AND GRAVEL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED

**Consolidometer No.** 1

**1 Division** = 0.0001 (in)

## Sample Properties

	Initial	Final
<i>Water Content</i>		
Tare Number	284	1399
Wt. Tare & WS (gm)	132.87	151.60
Wt. Tare & DS (gm)	102.21	127.83
Wt. Water (gm)	30.66	23.77
Wt. Tare (gm)	8.15	38.19
Wt. DS (gm)	94.06	89.64
Water Content (%)	32.60	26.52

## Sample Parameters

Sample Diameter (in)	2.5	2.5
Sample Height (in)	0.75	0.722
Sample Volume (cc)	60.33	58.09
Wt. Wet Sample + Ring (gm)	192.09	186.78
Wt. of Ring (gm)	76.32	76.32
Wt. of Wet Sample (gm)	115.77	110.46
Wet Density (pcf)	1.92	1.90
Wet Density (g/cc)	32.60	26.52
Water Content (%)	87.31	87.31
Wt. of Dry Sample (gm)	90.31	93.78
Dry Density (pcf)	1.45	1.50
Dry Density (g/cc)	0.8657	0.7965
Void Ratio	101.67	89.89
Saturation (%)	2.70	Assumed
Specific Gravity		

## Test Data Summary

Applied Pressure (tsf)	Final Dial Reading (div)	Machine Deflection (div)	Corrected Reading (div)	Height of Sample (mm)	Volume (cc)	Dry Density (g/cc)	Void Ratio
Seating	0	0	0	19.050	60.330	1.44721	0.86565
0.25	63.9	8.9	55.0	18.910	59.887	1.45791	0.85196
0.5	80.9	15.8	65.1	18.885	59.807	1.45988	0.84947
1	131.8	26.9	104.9	18.784	59.486	1.46775	0.83956
2	209.2	39.4	169.8	18.619	58.964	1.48073	0.82342
4	285.0	54.3	230.7	18.464	58.474	1.49314	0.80827
1	265.6	36.8	228.8	18.469	58.489	1.49275	0.80874
0.25	254.0	28.3	225.7	18.477	58.514	1.49212	0.80951
0.5	257.3	26.8	230.5	18.465	58.476	1.49310	0.80832
1	261.9	27.5	234.4	18.455	58.444	1.49390	0.80735
2	269.5	30.8	238.7	18.444	58.410	1.49479	0.80628
4	283.2	40.4	242.8	18.433	58.377	1.49563	0.80526
8	355.2	69.8	285.4	18.325	58.034	1.50446	0.79466
4	344.0	63.0	281.0	18.336	58.070	1.50355	0.79575
1	324.4	44.1	280.3	18.338	58.075	1.50340	0.79593
0.25	314.6	36.4	278.2	18.343	58.092	1.50296	0.79645

Tested By TM Date 9/1/04 Input Checked By GU Date 9/14/04

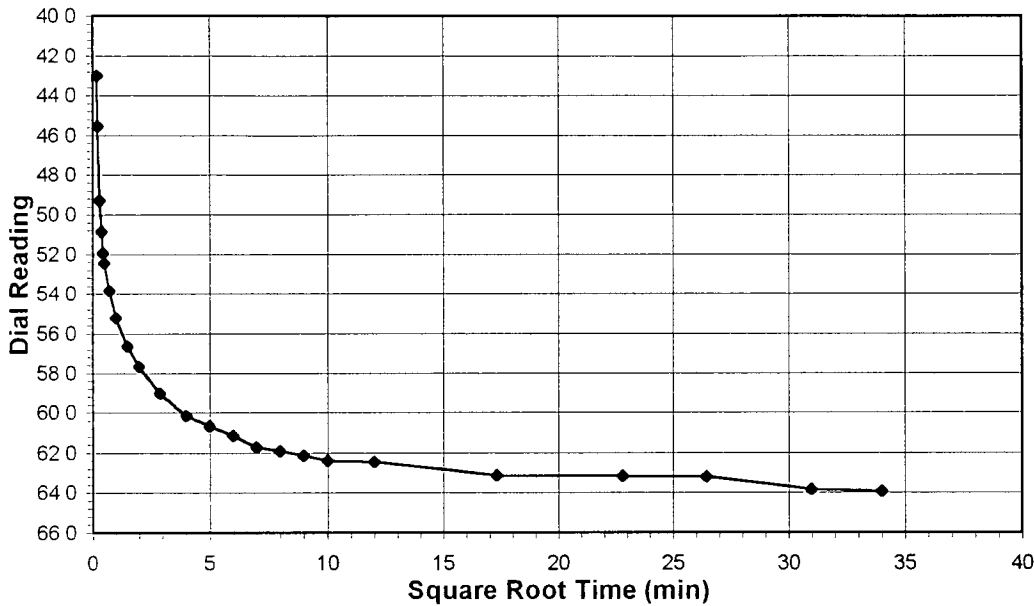


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-02	Sample No.	SS-52
Lab ID	2004-221-02-01	Visual Description	BLACK STABILIZED MATERIAL WITH ROCK FRAGMENTS AND GRAVEL

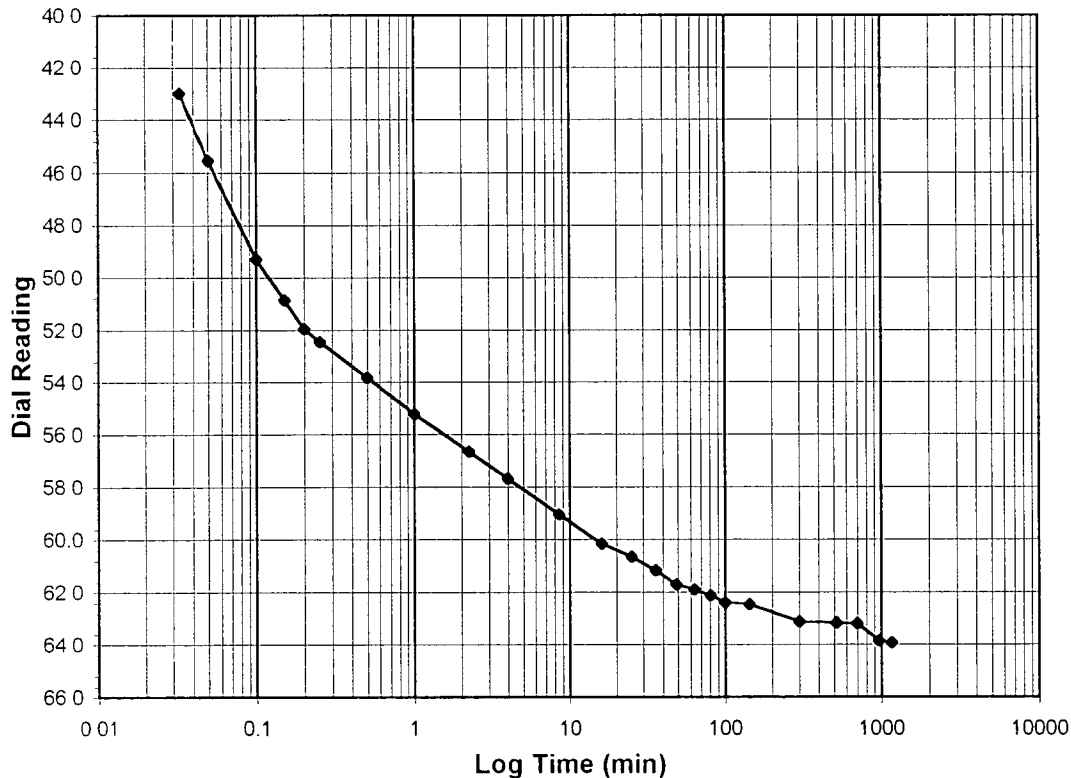
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0-0.25
Final Reading (div)	63.9
Consolidometer No.	1
1 Division (in)	0.0001

Start Date	9/1/04
Start Time	14:08:30

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<i>0.0</i>
0.03	43.0
0.05	45.5
0.10	49.3
0.15	50.9
0.20	52.0
0.25	52.5
0.50	53.8
1.00	55.2
2.25	56.7
4.00	57.7
8.50	59.0
16.00	60.2
25.00	60.7
36.00	61.2
49.00	61.7
64.00	61.9
81.00	62.1
100.00	62.4
144.00	62.5
300.00	63.1
520.00	63.2
700.00	63.2
960.00	63.8
1156.00	63.9



Tested By *TM* Date *9/1/04* Checked By *GU* Date *9/14/04*

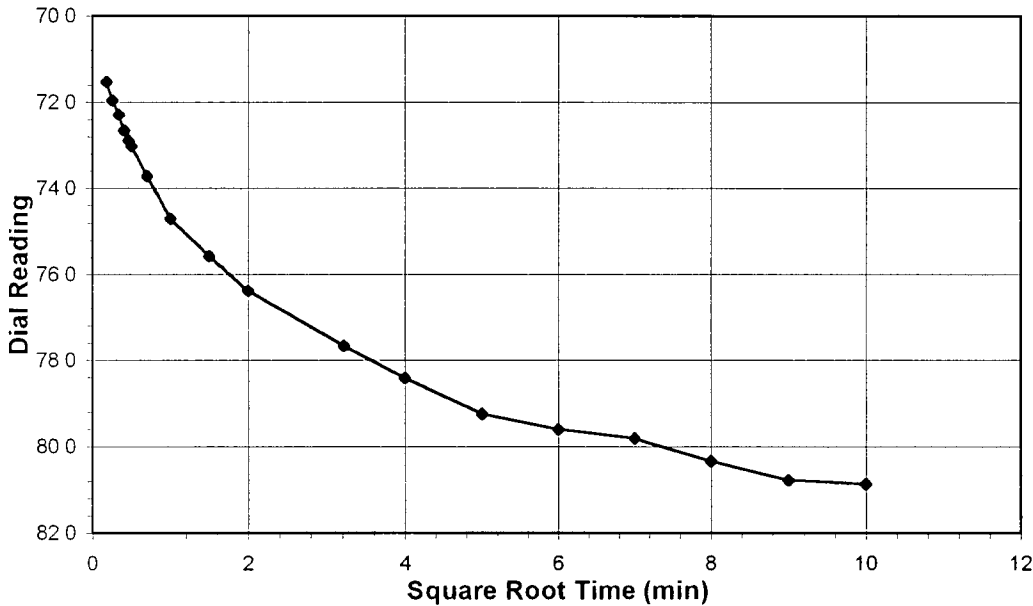


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-02	Sample No.	SS-52
Lab ID	2004-221-02-01	Visual Description	BLACK STABILIZED MATERIAL WITH ROCK FRAGMENTS AND GRAVEL

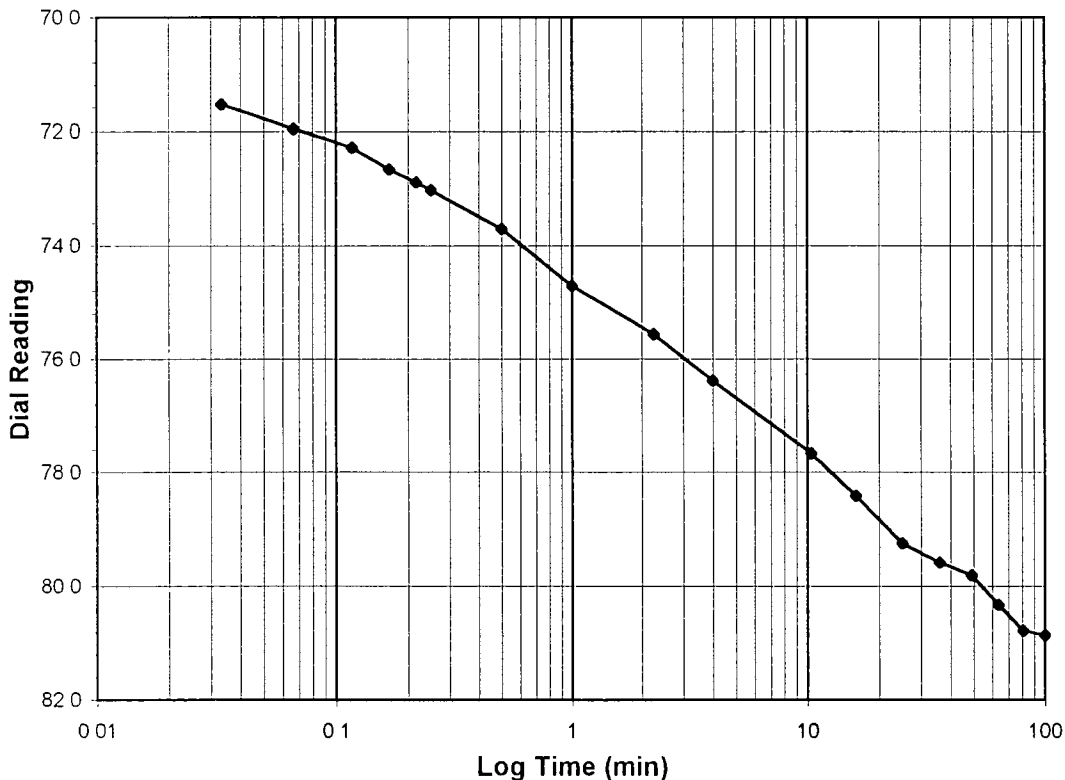
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.25-0.5
Final Reading (div)	80.9
Consolidometer No.	1
1 Division (in)	0.0001

Start Date	9/2/04
Start Time	9:47:05

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	63.9
0.03	71.5
0.07	72.0
0.12	72.3
0.17	72.7
0.22	72.9
0.25	73.0
0.50	73.7
1.00	74.7
2.25	75.6
4.00	76.4
10.38	77.7
16.00	78.4
25.00	79.3
36.00	79.6
49.00	79.8
64.00	80.3
81.00	80.8
100.00	80.9



Tested By TM Date 9/2/04 Checked By GU Date 9/14/04

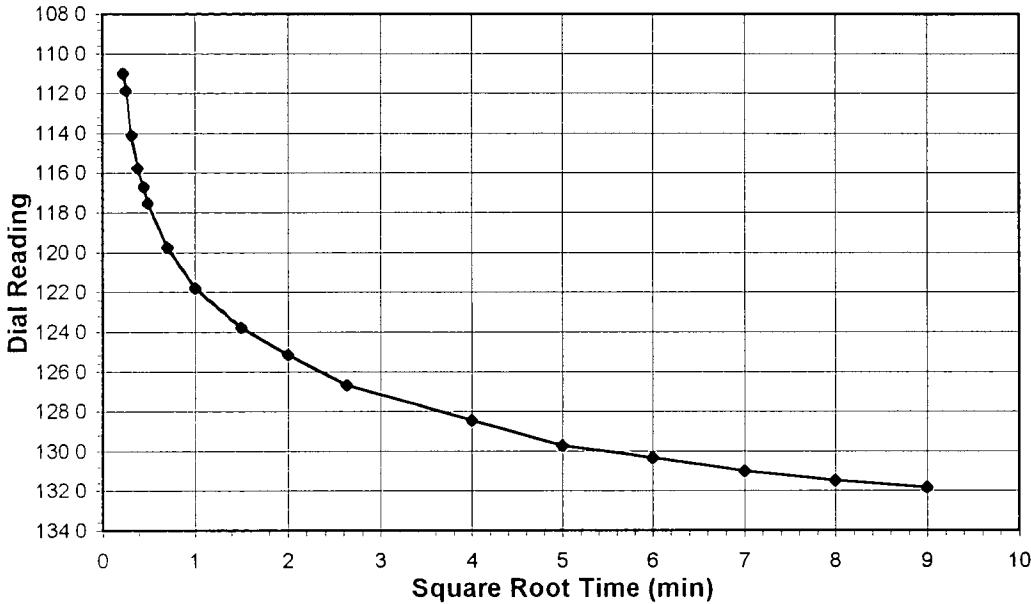


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

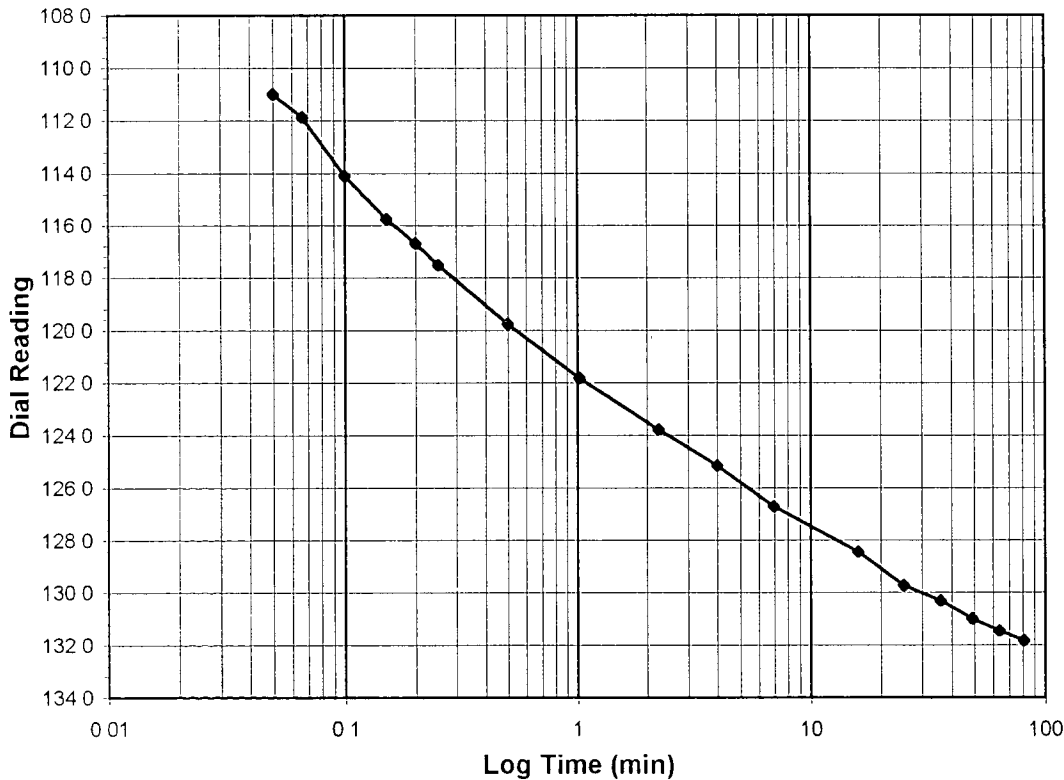
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-02	Sample No.	SS-52
Lab ID	2004-221-02-01	Visual Description	BLACK STABILIZED MATERIAL WITH ROCK FRAGMENTS AND GRAVEL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.5-1.0
Final Reading (div)	131.8
Consolidometer No.	1
1 Division (in)	0.0001
Start Date	9/2/04
Start Time	11:45:52

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>80.9</b>
0.05	111.0
0.07	111.9
0.10	114.1
0.15	115.8
0.20	116.7
0.25	117.5
0.50	119.8
1.02	121.8
2.25	123.8
4.00	125.1
6.93	126.7
16.00	128.4
25.00	129.7
36.00	130.3
49.00	131.0
64.00	131.5
81.00	131.8



Tested By TM Date 9/2/04 Checked By GU Date 9/14/04

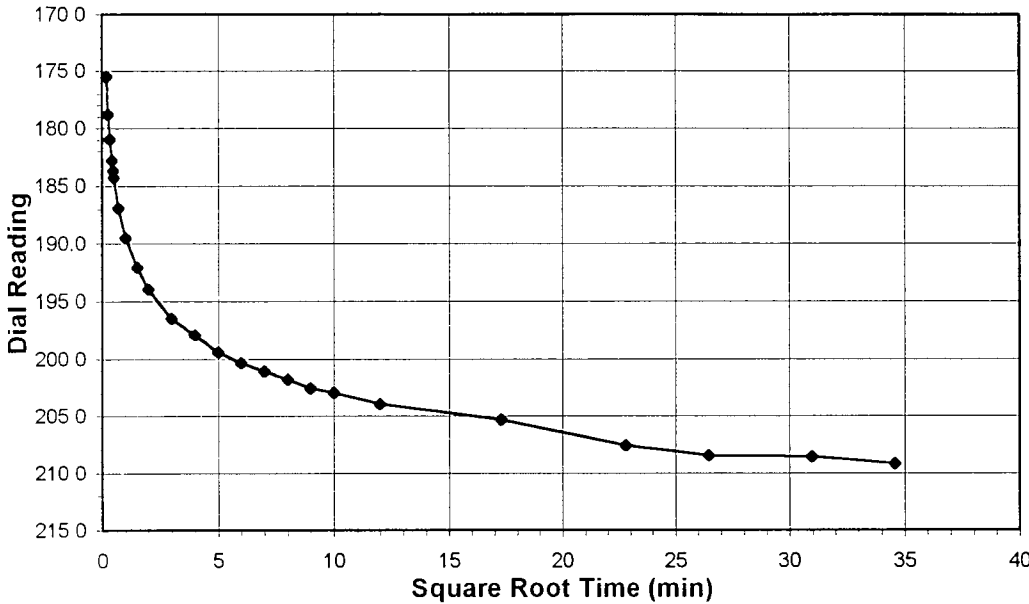


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-02	Sample No.	SS-52
Lab ID	2004-221-02-01	Visual Description	BLACK STABILIZED MATERIAL WITH ROCK FRAGMENTS AND GRAVEL

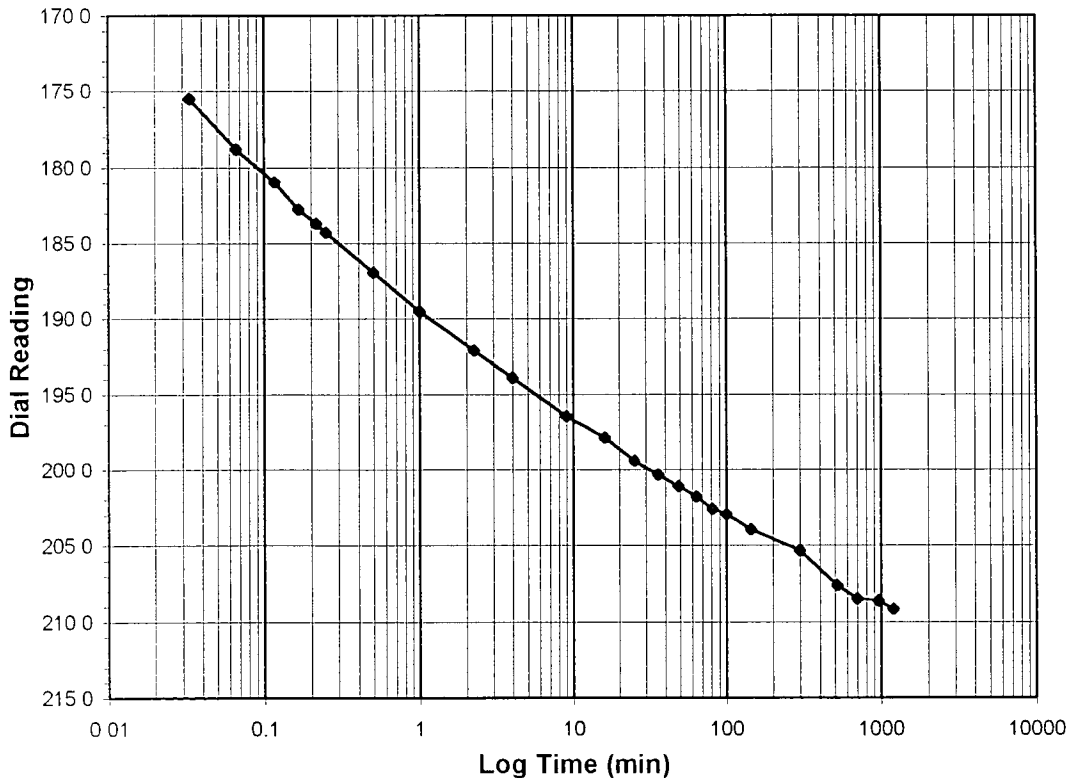
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



<b>Test Load</b>	(tsf)	1.0-2.0
<b>Final Reading</b>	(div)	209.2
Consolidometer No.		1
1 Division	(in)	0.0001

Start Date	9/2/04
Start Time	13:20:23

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>131.8</b>
0.03	175.5
0.07	178.8
0.12	181.0
0.17	182.8
0.22	183.7
0.25	184.3
0.50	186.9
1.00	189.5
2.25	192.1
4.00	193.9
9.02	196.5
16.00	197.9
25.00	199.4
36.00	200.3
49.00	201.1
64.00	201.8
81.00	202.6
100.00	202.9
144.00	203.9
300.00	205.3
520.00	207.6
700.00	208.5
960.00	208.6
1197.62	209.2



Tested By TM Date 9/2/04 Checked By GU Date 9/14/04

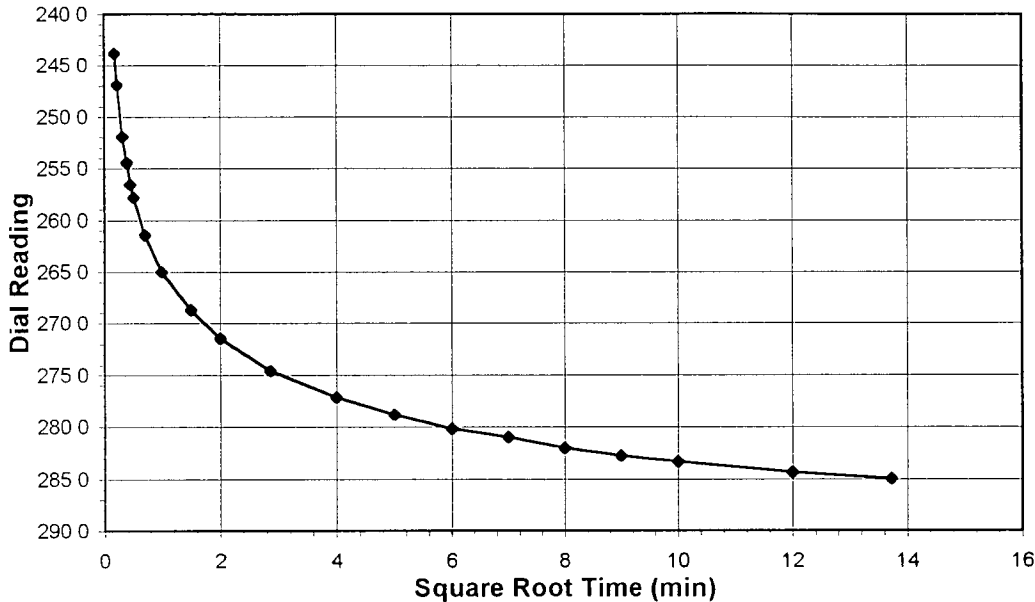


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-02	Sample No.	SS-52
Lab ID	2004-221-02-01	Visual Description	BLACK STABILIZED MATERIAL WITH ROCK FRAGMENTS AND GRAVEL

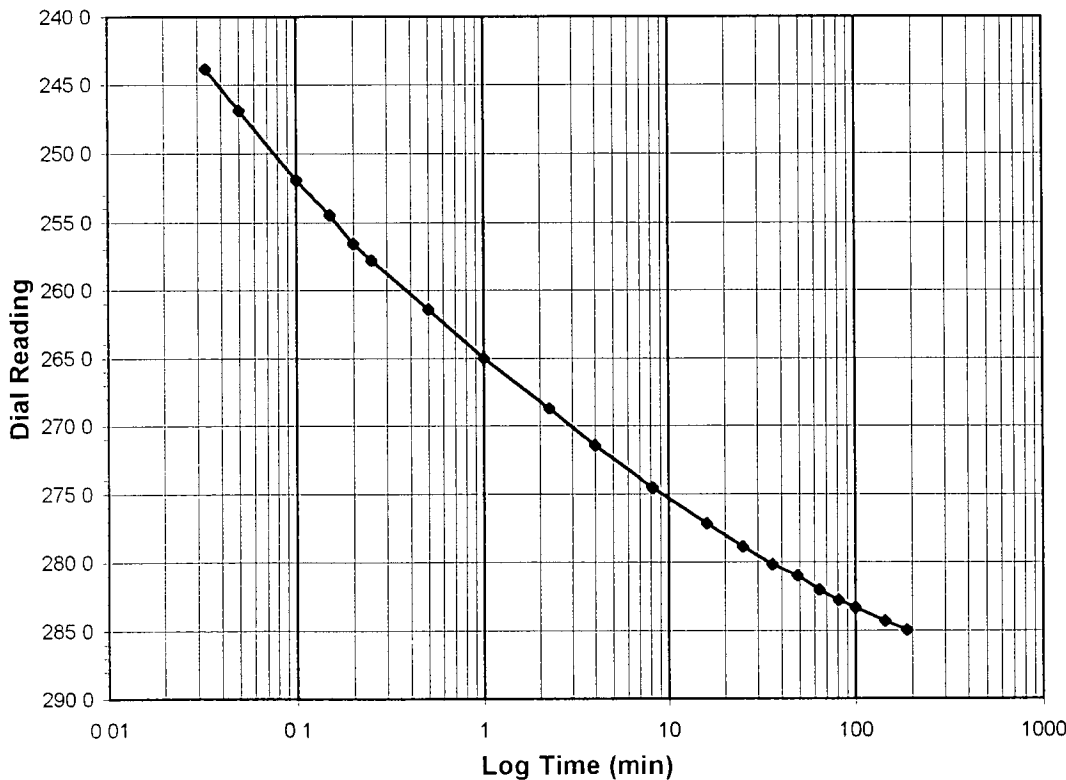
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



<b>Test Load</b>	(tsf)	2.0-4.0
<b>Final Reading</b>	(div)	285.0
Consolidometer No.		1
1 Division	(in)	0.0001

Start Date	9/3/04
Start Time	9:31:16

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>209.2</b>
0.03	243.8
0.05	246.9
0.10	251.9
0.15	254.5
0.20	256.6
0.25	257.8
0.50	261.4
1.00	265.0
2.25	268.7
4.00	271.5
8.23	274.6
16.00	277.2
25.00	278.9
36.00	280.2
49.00	281.0
64.00	282.0
81.00	282.8
100.00	283.3
144.00	284.3
188.30	285.0



Tested By *TM* Date *9/3/04* Checked By *GU* Date *9/14/04*

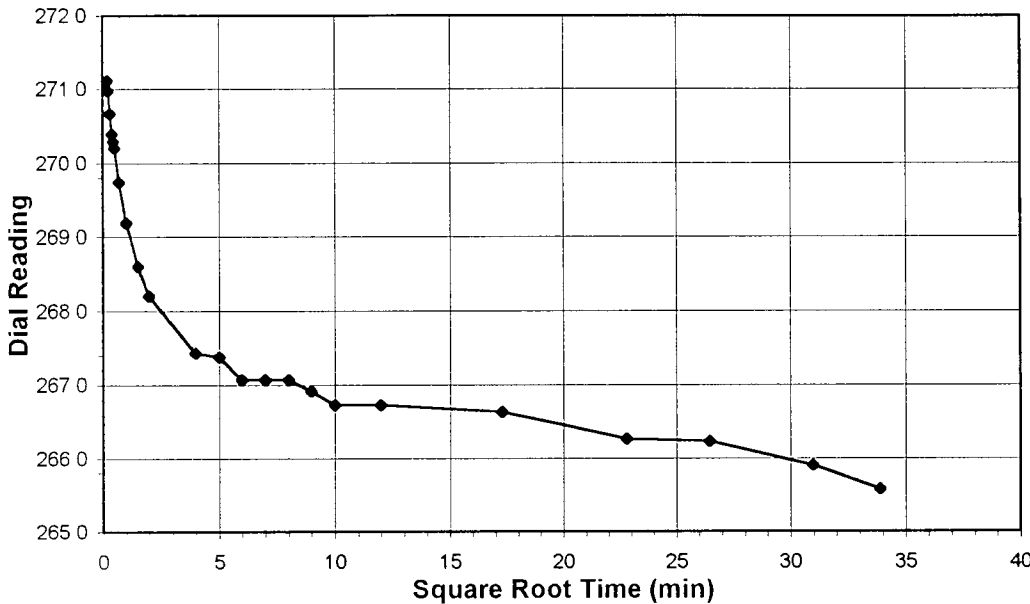


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-02	Sample No.	SS-52
Lab ID	2004-221-02-01	Visual Description	BLACK STABILIZED MATERIAL WITH ROCK FRAGMENTS AND GRAVEL

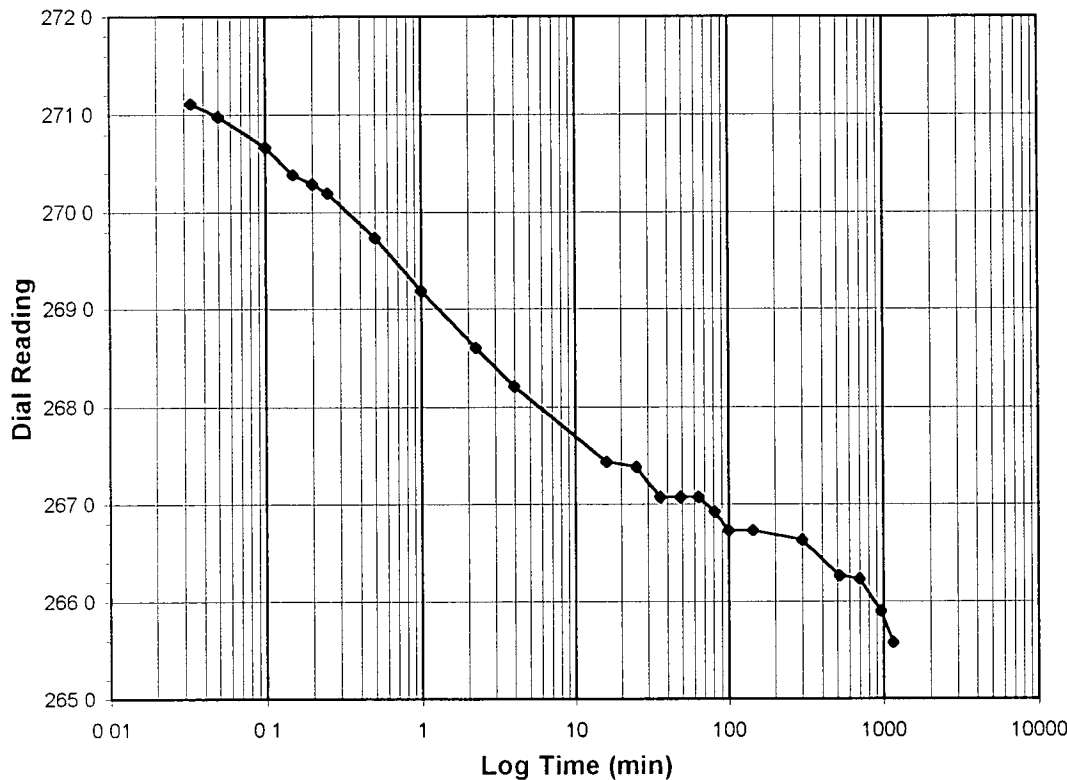
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



<b>Test Load</b>	(tsf)	<b>4.0-1.0</b>
<b>Final Reading</b>	(div)	<b>265.6</b>
Consolidometer No.		1
1 Division	(in)	0.0001

<b>Start Date</b>	9/3/04
<b>Start Time</b>	12:44:30

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>285.0</b>
0.03	271.1
0.05	271.0
0.10	270.7
0.15	270.4
0.20	270.3
0.25	270.2
0.50	269.7
1.00	269.2
2.25	268.6
4.00	268.2
16.00	267.4
25.00	267.4
36.00	267.1
49.00	267.1
64.02	267.1
81.00	266.9
100.02	266.7
144.00	266.7
300.00	266.6
520.00	266.3
700.00	266.2
960.00	265.9
1148.43	265.6



Tested By TM Date 9/3/04 Checked By GO Date 9/14/04



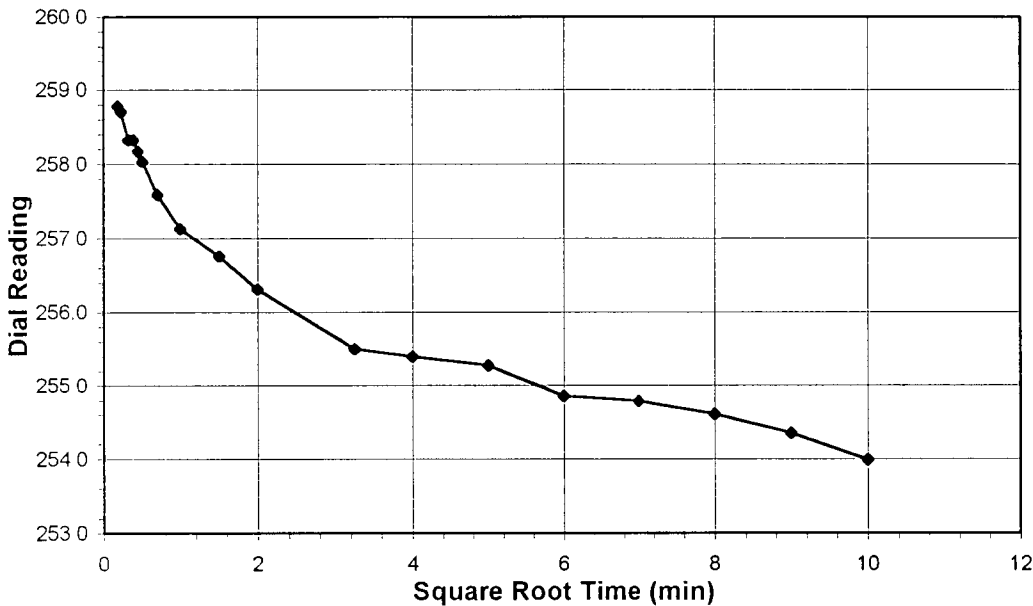


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-02	Sample No.	SS-52
Lab ID	2004-221-02-01	Visual Description	BLACK STABILIZED MATERIAL WITH ROCK FRAGMENTS AND GRAVEL

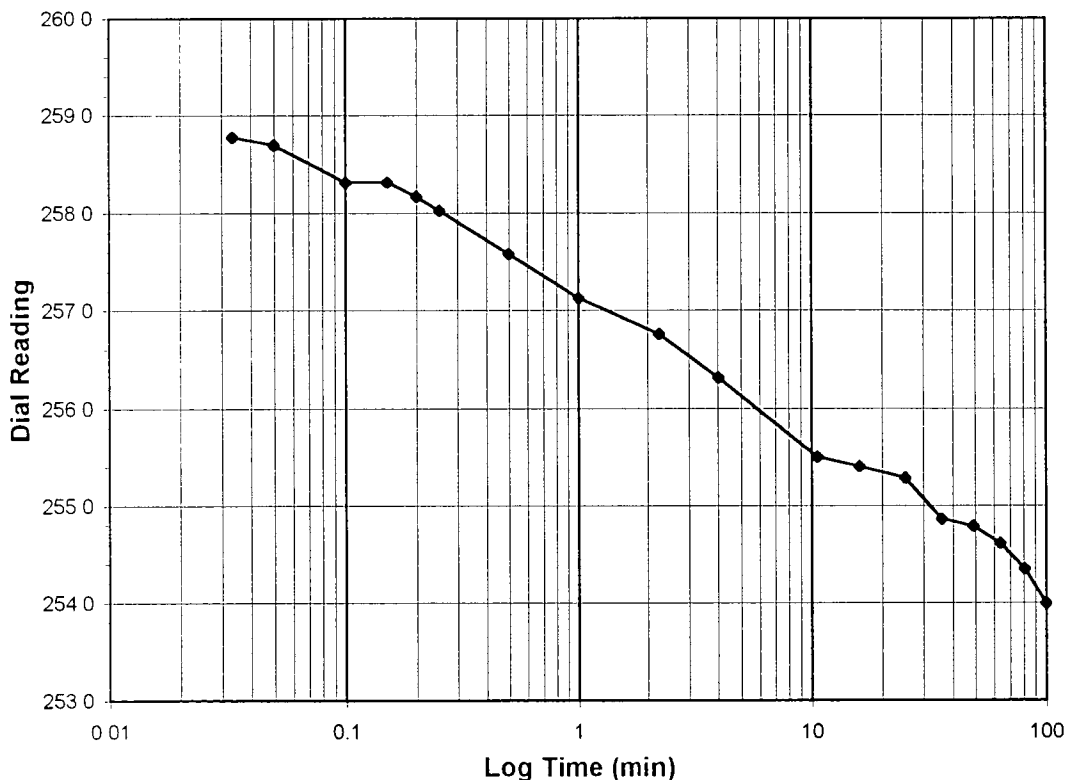
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



<b>Test Load</b> (tsf)	1.0-0.25
<b>Final Reading</b> (div)	254.0
Consolidometer No.	1
1 Division (in)	0.0001

Start Date	9/4/04
Start Time	8:01:19

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>265.6</b>
0.03	258.8
0.05	258.7
0.10	258.3
0.15	258.3
0.20	258.2
0.25	258.0
0.50	257.6
1.00	257.1
2.25	256.8
4.02	256.3
10.60	255.5
16.02	255.4
25.00	255.3
36.00	254.9
49.00	254.8
64.00	254.6
81.00	254.4
100.00	254.0



Tested By *TM* Date *9/4/04* Checked By *GO* Date *9/14/04*

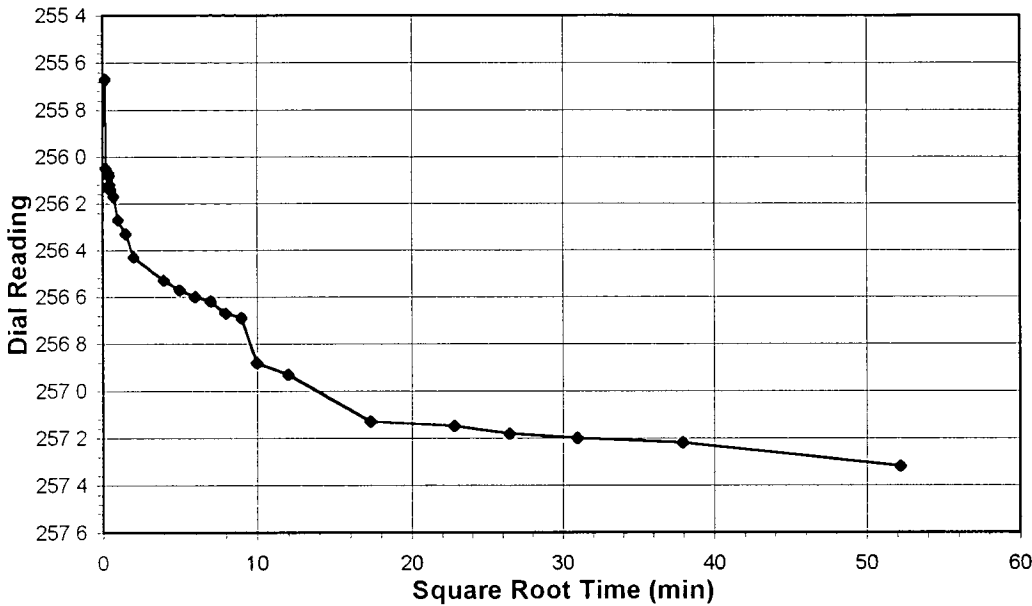


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-02	Sample No.	SS-52
Lab ID	2004-221-02-01	Visual Description	BLACK STABILIZED MATERIAL WITH ROCK FRAGMENTS AND GRAVEL

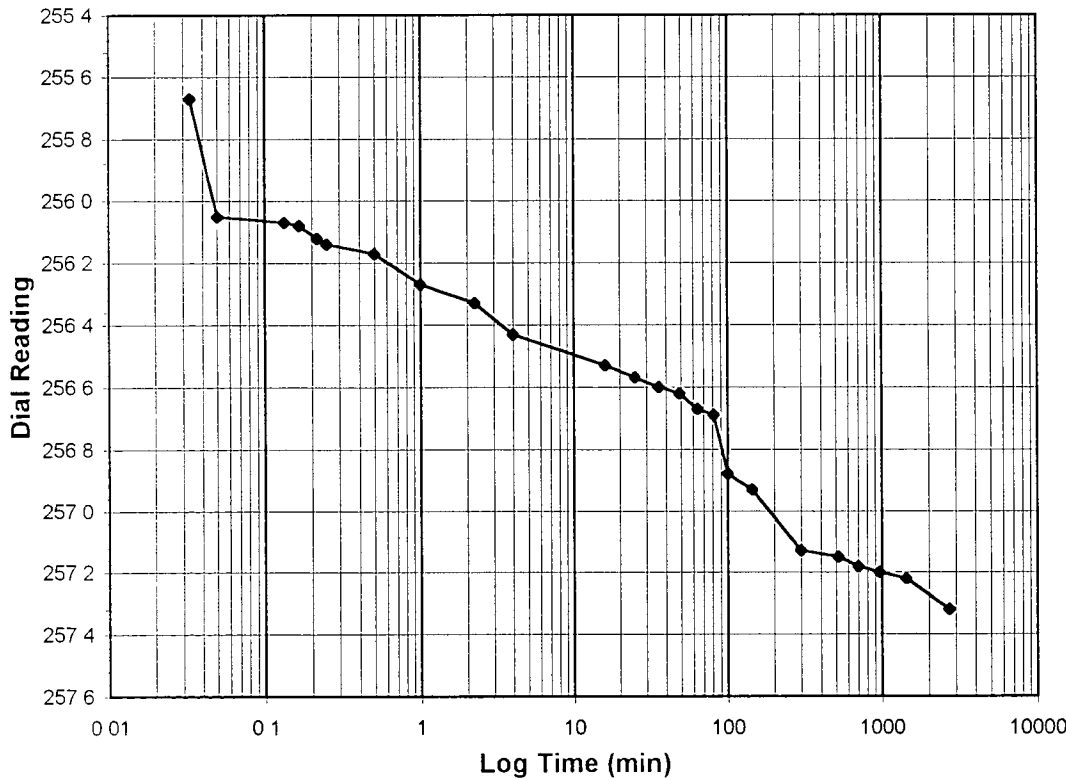
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.25-0.5
Final Reading (div)	257.3
Consolidometer No.	1
1 Division (in)	0.0001

Start Date	9/4/04
Start Time	10:04:28

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>254.0</b>
0.03	255.7
0.05	256.1
0.13	256.1
0.17	256.1
0.22	256.1
0.25	256.1
0.50	256.2
1.00	256.3
2.25	256.3
4.00	256.4
16.00	256.5
25.00	256.6
36.00	256.6
49.00	256.6
64.00	256.7
81.00	256.7
100.00	256.9
144.02	256.9
300.00	257.1
520.00	257.2
700.00	257.2
960.00	257.2
1440.00	257.2
2728.73	257.3



Tested By TM Date 9/4/04 Checked By GO Date 9/14/04

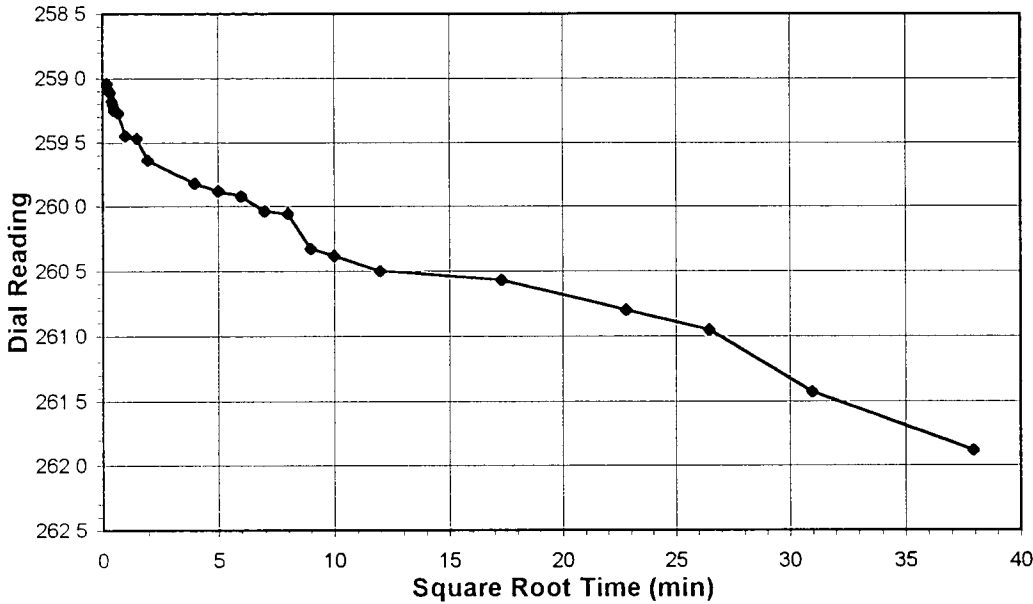


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

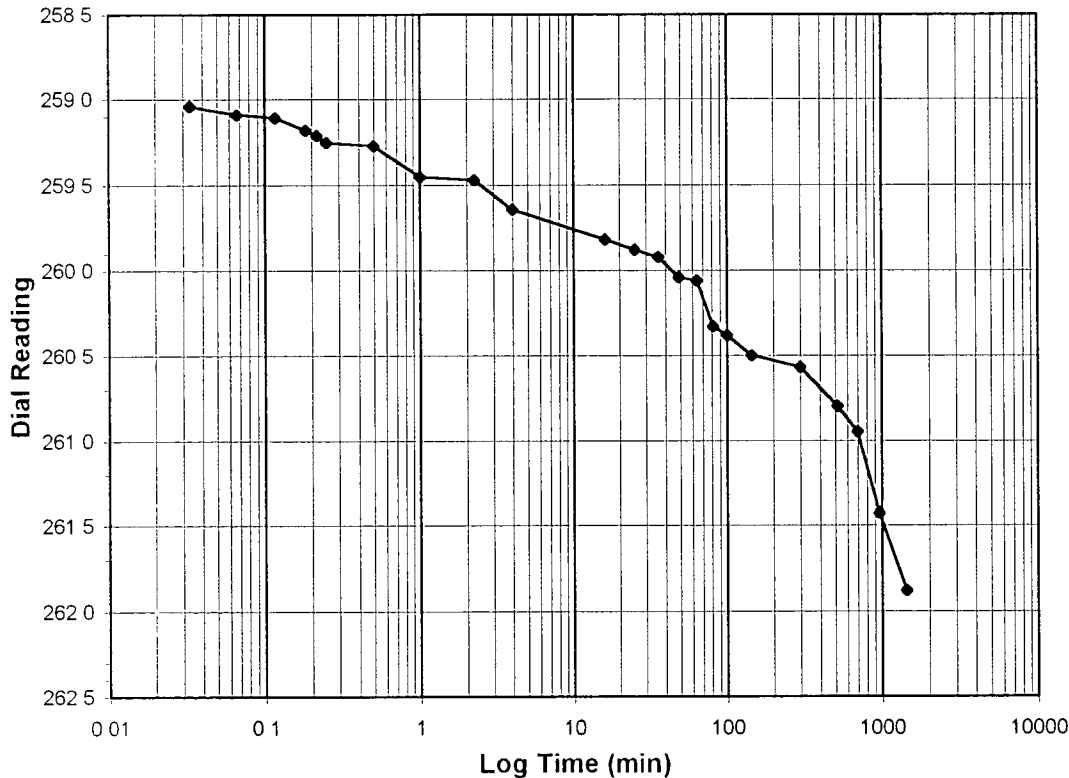
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-02	Sample No.	SS-52
Lab ID	2004-221-02-01	Visual Description	BLACK STABILIZED MATERIAL WITH ROCK FRAGMENTS AND GRAVEL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.5-1.0
Final Reading (div)	261.9
Consolidometer No.	1
1 Division (in)	0.0001
Start Date	9/6/04
Start Time	7:41:19

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>257.3</b>
0.03	259.0
0.07	259.1
0.12	259.1
0.18	259.2
0.22	259.2
0.25	259.3
0.50	259.3
1.00	259.5
2.25	259.5
4.00	259.6
16.00	259.8
25.00	259.9
36.00	259.9
49.00	260.0
64.00	260.1
81.00	260.3
100.00	260.4
144.00	260.5
300.00	260.6
520.00	260.8
700.00	261.0
960.00	261.4
1440.00	261.9



Tested By TM Date 9/6/04 Checked By GU Date 9/14/04

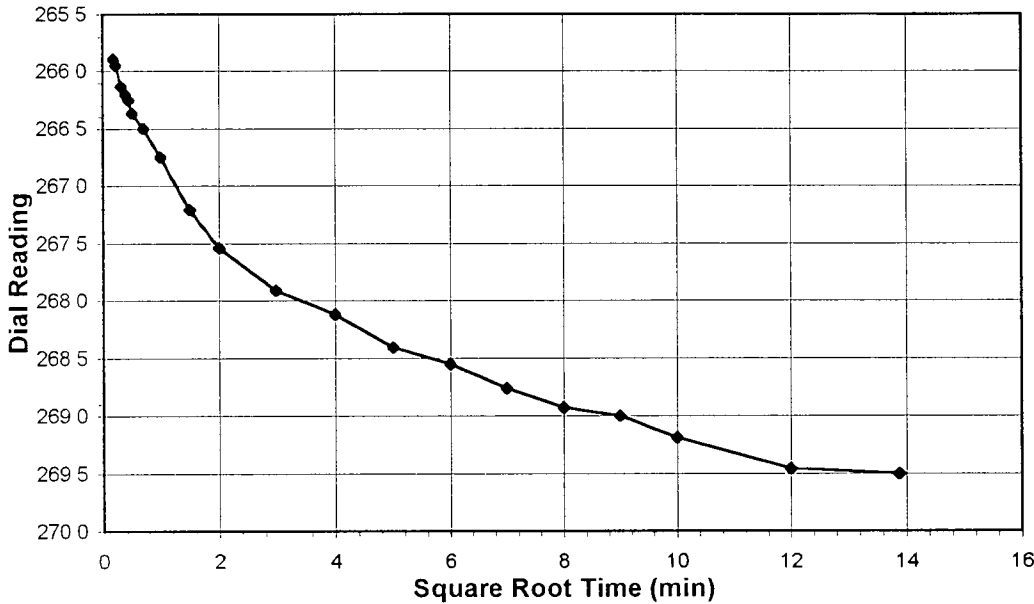


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-02	Sample No.	SS-52
Lab ID	2004-221-02-01	Visual Description	BLACK STABILIZED MATERIAL WITH ROCK FRAGMENTS AND GRAVEL

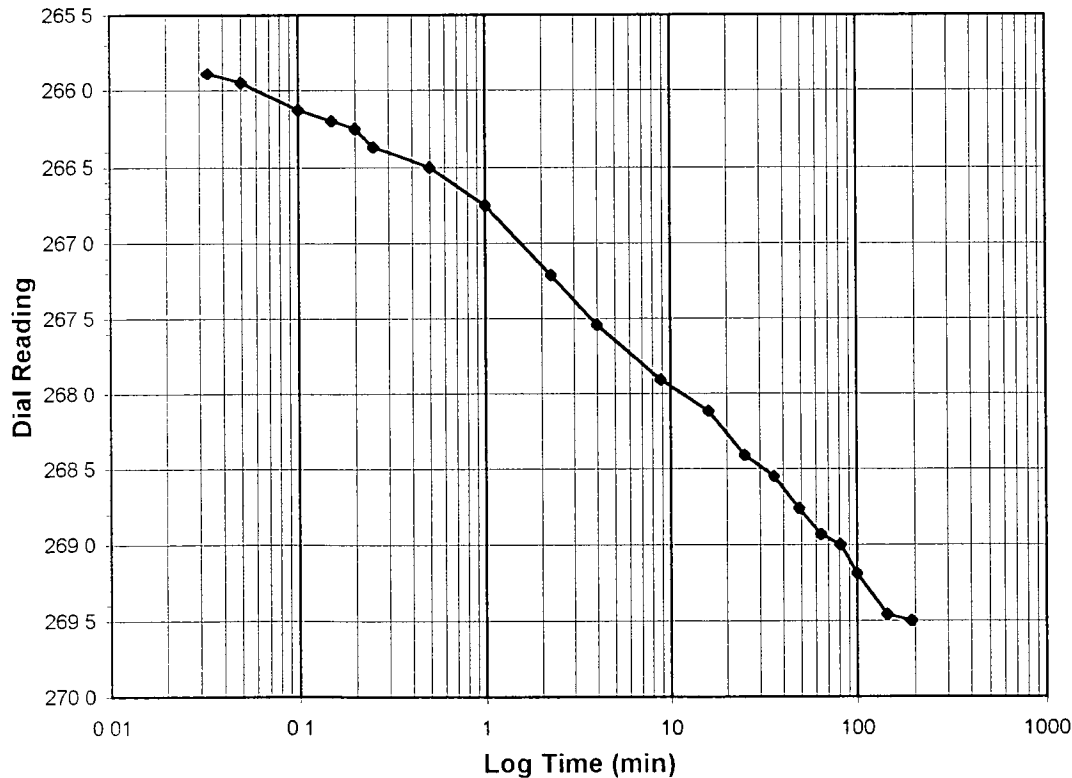
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



<b>Test Load</b>	(tsf)	<b>1.0-2.0</b>
<b>Final Reading</b>	(div)	<b>269.5</b>
Consolidometer No.		1
1 Division	(in)	0.0001

Start Date	9/7/04
Start Time	8:32:33

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>261.9</b>
0.03	265.9
0.05	266.0
0.10	266.1
0.15	266.2
0.20	266.3
0.25	266.4
0.50	266.5
1.00	266.8
2.25	267.2
4.00	267.5
8.87	267.9
16.00	268.1
25.00	268.4
36.00	268.6
49.00	268.8
64.00	268.9
81.00	269.0
100.00	269.2
144.00	269.5
192.75	269.5



Tested By *TM* Date *9/7/04* Checked By *GO* Date *9/14/04*

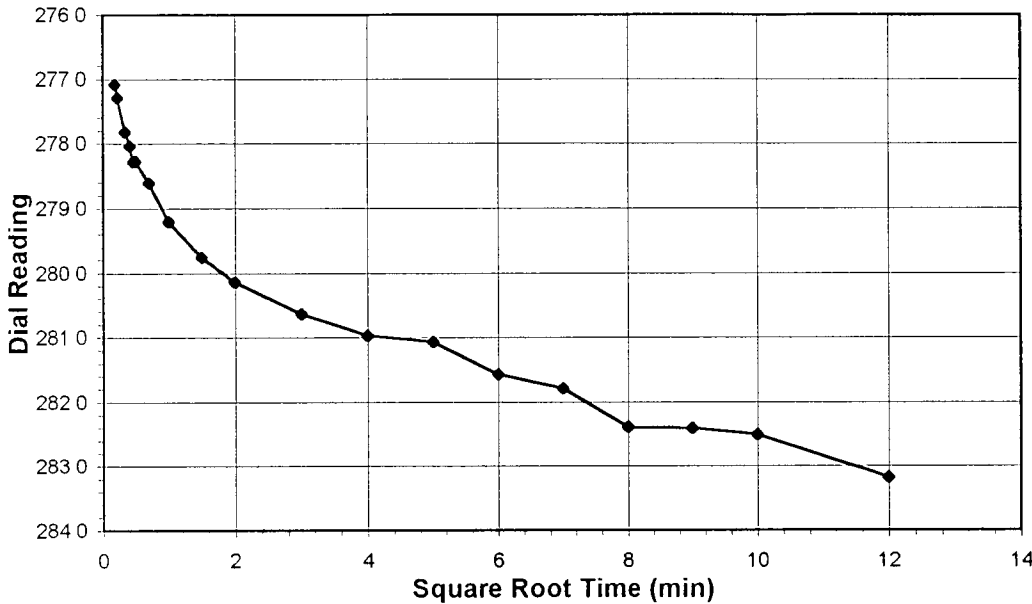


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-02	Sample No.	SS-52
Lab ID	2004-221-02-01	Visual Description	BLACK STABILIZED MATERIAL WITH ROCK FRAGMENTS AND GRAVEL

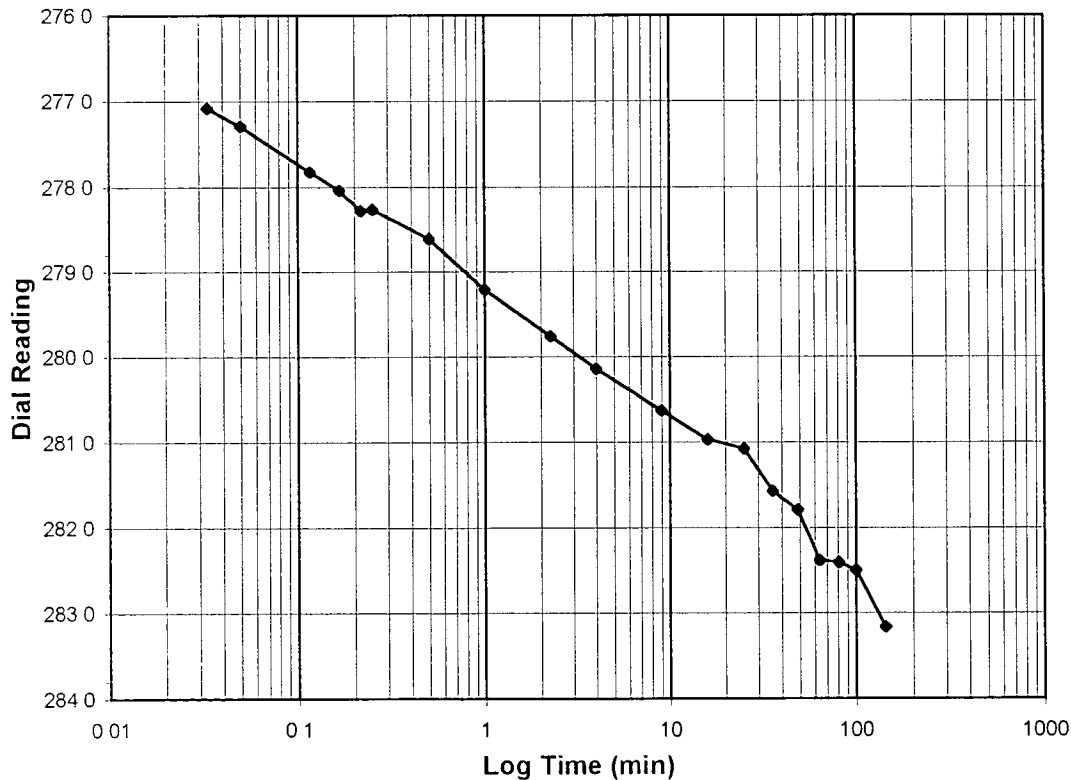
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



<b>Test Load</b>	(tsf)	<b>2.0-4.0</b>
<b>Final Reading</b>	(div)	<b>283.2</b>
Consolidometer No.		1
1 Division	(in)	0.0001

Start Date	9/7/04
Start Time	11:51:22

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>269.5</b>
0.03	277.1
0.05	277.3
0.12	277.8
0.17	278.0
0.22	278.3
0.25	278.3
0.50	278.6
1.00	279.2
2.25	279.8
4.00	280.1
9.02	280.6
16.00	281.0
25.02	281.1
36.00	281.6
49.00	281.8
64.00	282.4
81.00	282.4
100.00	282.5
144.00	283.2



Tested By TM Date 9/7/04 Checked By GU Date 9/14/04

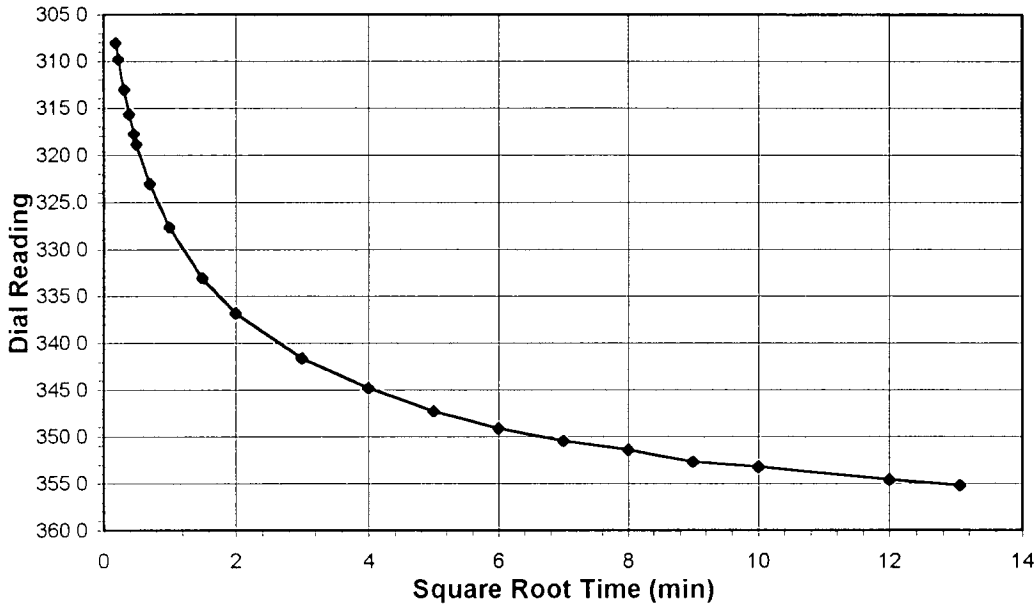


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-02	Sample No.	SS-52
Lab ID	2004-221-02-01	Visual Description	BLACK STABILIZED MATERIAL WITH ROCK FRAGMENTS AND GRAVEL

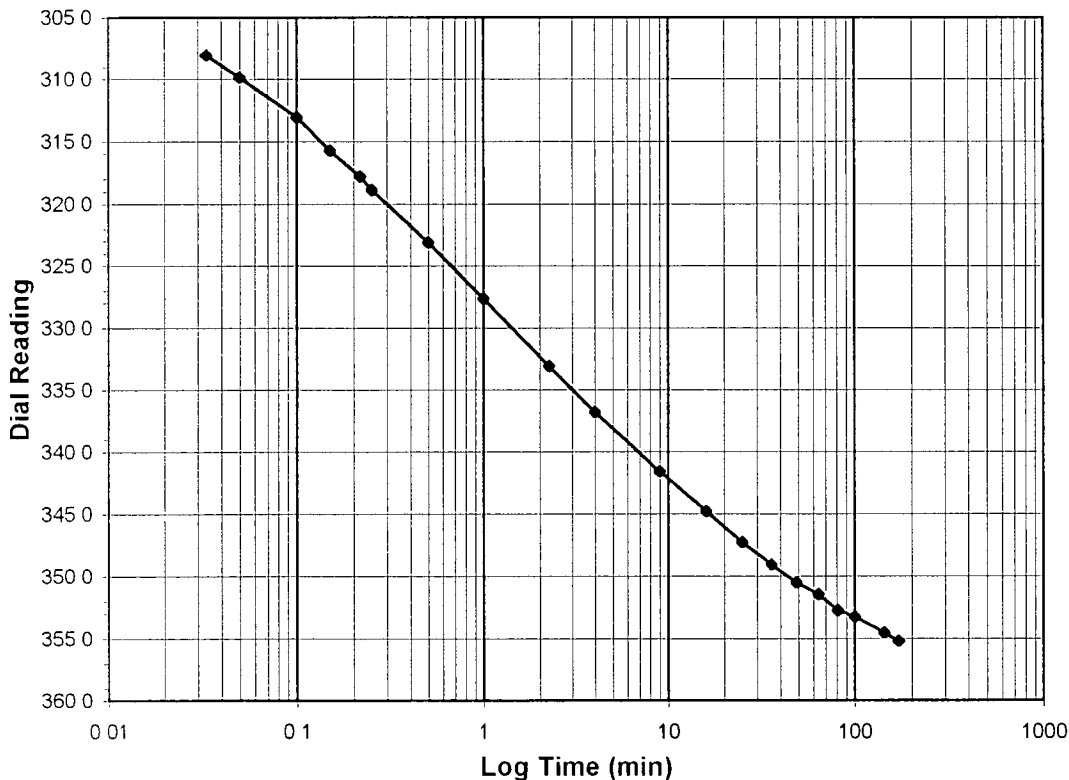
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 4.0-8.0  
 Final Reading (div) 355.2  
 Consolidometer No. 1  
 1 Division (in) 0.0001

Start Date 9/8/04  
 Start Time 10:03:31

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>283.2</b>
0.03	308.1
0.05	309.8
0.10	313.0
0.15	315.7
0.22	317.8
0.25	318.9
0.50	323.1
1.00	327.7
2.25	333.1
4.00	336.8
9.02	341.6
16.00	344.8
25.00	347.3
36.00	349.1
49.00	350.5
64.00	351.4
81.00	352.7
100.00	353.2
144.00	354.6
170.47	355.2



Tested By TM Date 9/8/04 Checked By GU Date 9/14/04

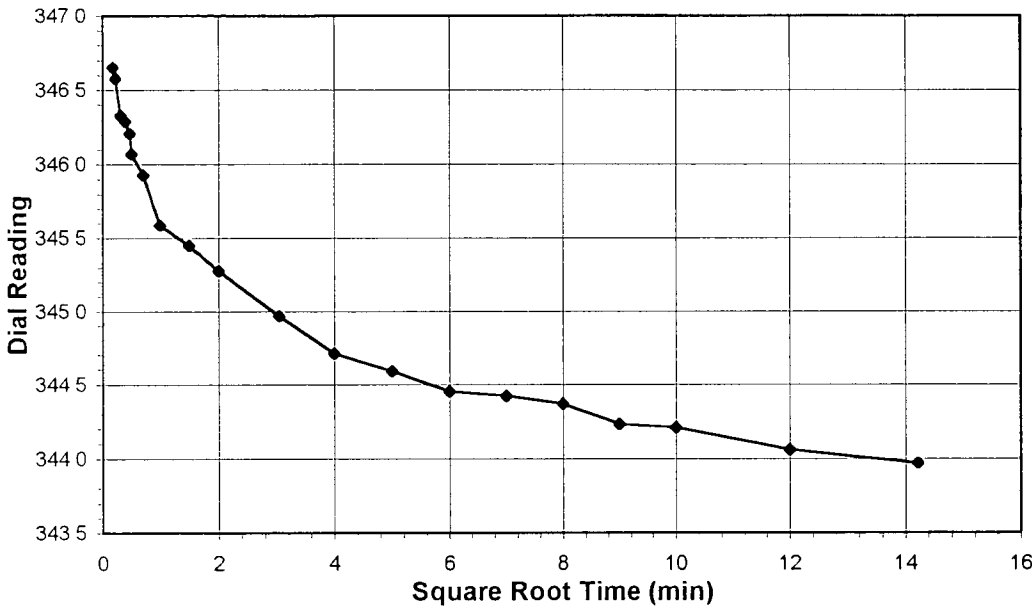


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-02	Sample No.	SS-52
Lab ID	2004-221-02-01	Visual Description	BLACK STABILIZED MATERIAL WITH ROCK FRAGMENTS AND GRAVEL

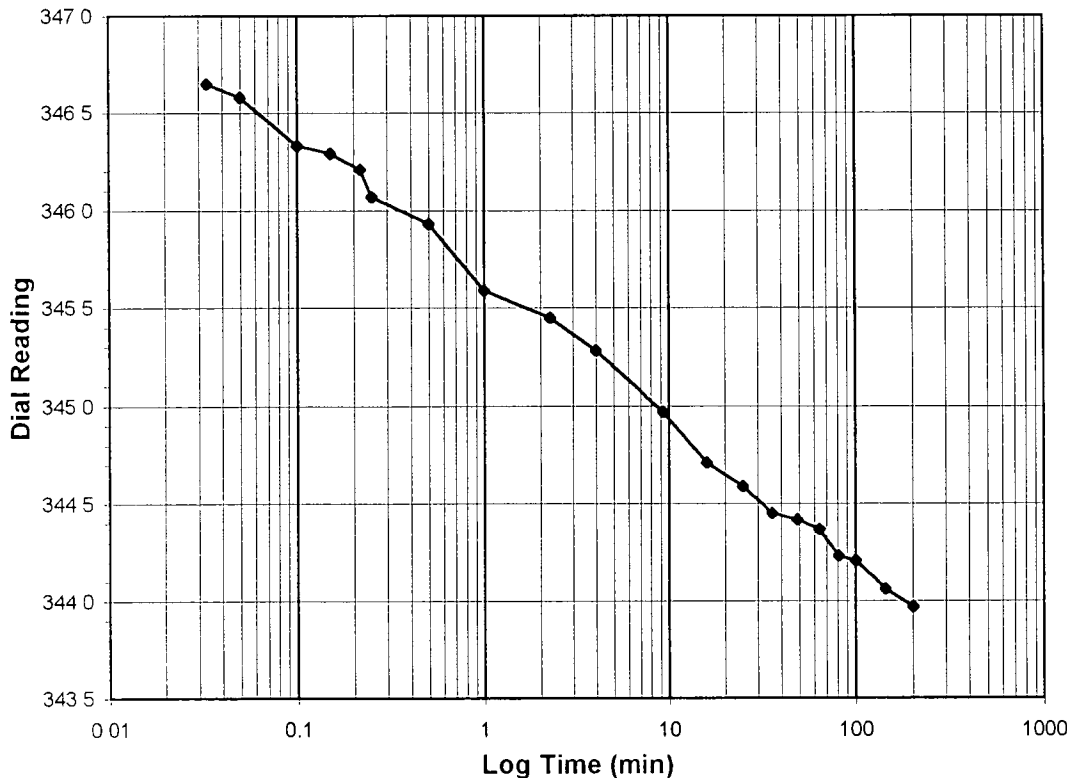
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 8.0-4.0  
 Final Reading (div) 344.0  
 Consolidometer No. 1  
 1 Division (in) 0.0001

Start Date 9/8/04  
 Start Time 12:56:42

Elapsed Time (min)	Dial Reading (div)
Initial	355.2
0.03	346.7
0.05	346.6
0.10	346.3
0.15	346.3
0.22	346.2
0.25	346.1
0.50	345.9
1.00	345.6
2.25	345.5
4.00	345.3
9.30	345.0
16.00	344.7
25.00	344.6
36.00	344.5
49.00	344.4
64.00	344.4
81.00	344.2
100.00	344.2
144.02	344.1
202.07	344.0



Tested By TM Date 9/8/04 Checked By GU Date 9/14/04

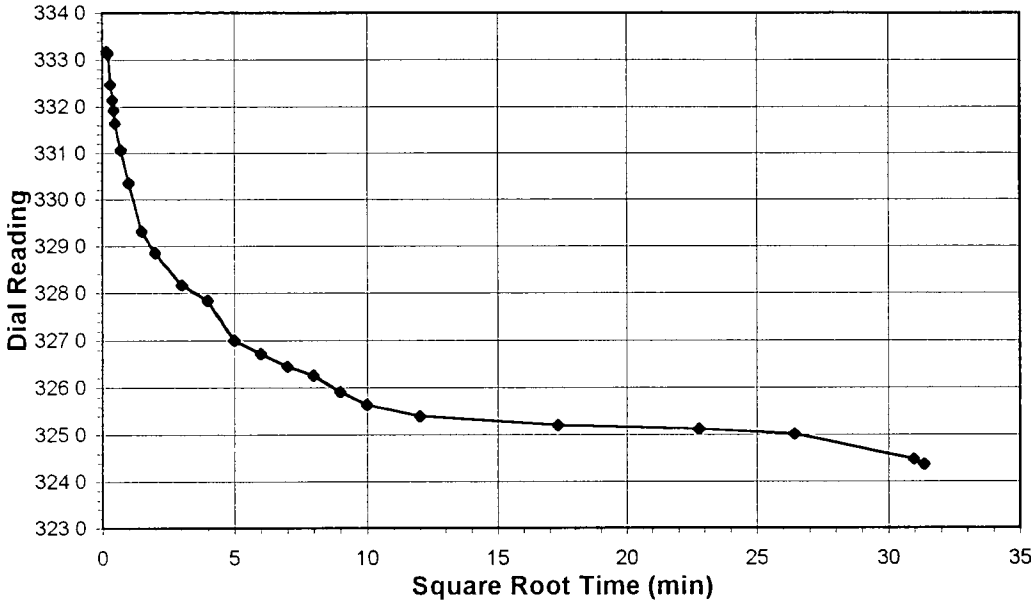


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-02	Sample No.	SS-52
Lab ID	2004-221-02-01	Visual Description	BLACK STABILIZED MATERIAL WITH ROCK FRAGMENTS AND GRAVEL

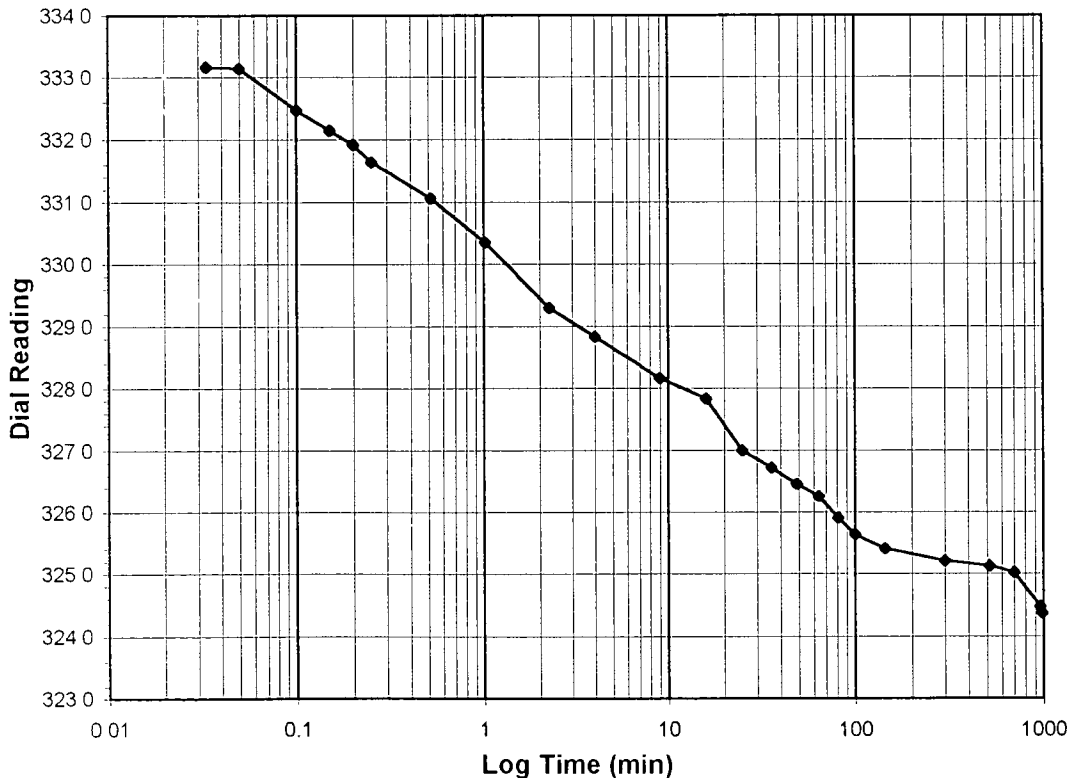
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	4.0-1.0
Final Reading (div)	324.4
Consolidometer No.	1
1 Division (in)	0.0001

Start Date	9/8/04
Start Time	16:23:57

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>344.0</b>
0.03	333.2
0.05	333.1
0.10	332.5
0.15	332.1
0.20	331.9
0.25	331.6
0.52	331.1
1.02	330.4
2.25	329.3
4.00	328.8
9.02	328.2
16.00	327.8
25.00	327.0
36.00	326.7
49.00	326.5
64.00	326.3
81.00	325.9
100.00	325.6
144.00	325.4
300.00	325.2
520.00	325.1
700.00	325.0
960.00	324.5
984.98	324.4



Tested By TM Date 9/8/04 Checked By GU Date 9/14/04

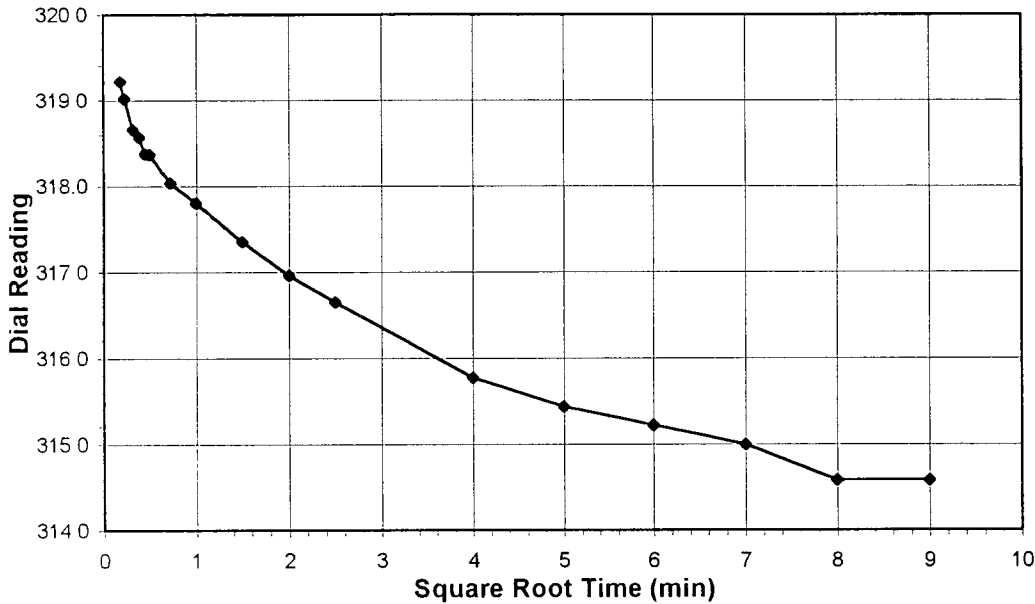




**ONE DIMENSIONAL CONSOLIDATION**  
ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-02	Sample No.	SS-52
Lab ID	2004-221-02-01	Visual Description	BLACK STABILIZED MATERIAL WITH ROCK FRAGMENTS AND GRAVEL

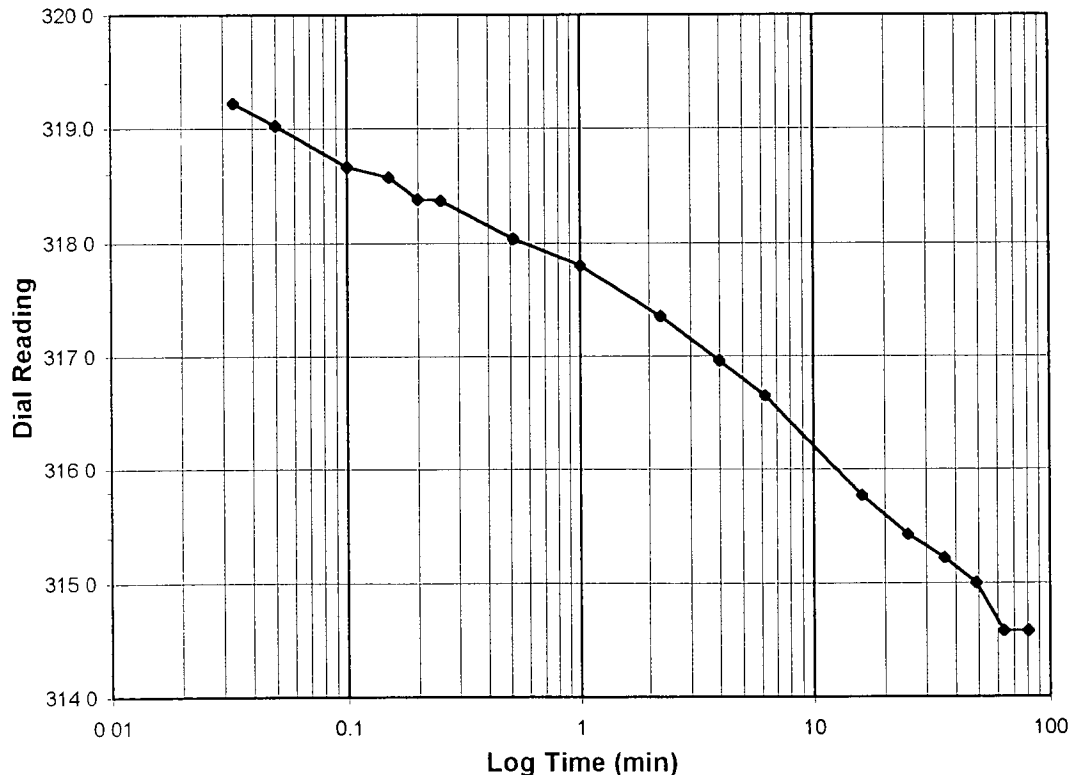
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



<b>Test Load</b>	(tsf)	<b>1.0-0.25</b>
<b>Final Reading</b>	(div)	<b>314.6</b>
Consolidometer No.		1
1 Division	(in)	0.0001

Start Date	9/9/04
Start Time	8:52:44

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>324.4</b>
0.03	319.2
0.05	319.0
0.10	318.7
0.15	318.6
0.20	318.4
0.25	318.4
0.52	318.0
1.00	317.8
2.25	317.4
4.00	317.0
6.23	316.7
16.00	315.8
25.00	315.4
36.00	315.2
49.00	315.0
64.00	314.6
81.00	314.6



Tested By TM Date 9/9/04 Checked By GU Date 9/14/04

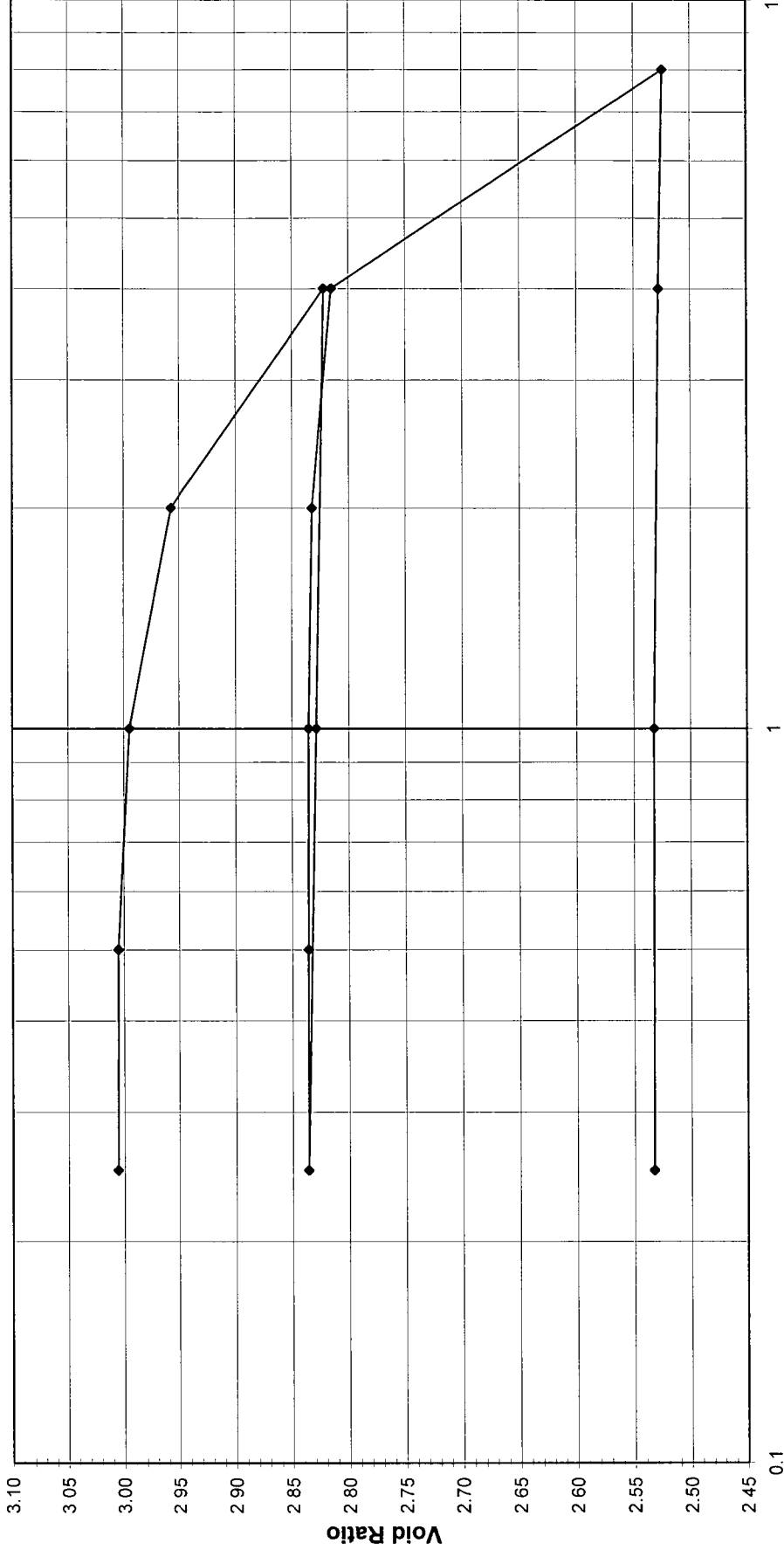


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 / AASHTO T216-03 (SOP-S24)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Reference	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-02	Sample No.	SS-58
Lab ID	2004-221-02-02	Visual Description	BROWN STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Tested By TM Date 9/14/04 Approved By DB Date 9/23/04



# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 / AASHTO T216-03 (SOP-S24)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Reference	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-02	Sample No.	SS-58
Lab ID	2004-221-02-02	Visual Description	BROWN STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED

**Consolidometer No.** 1

**1 Division** = 0.0001 (in)

## Sample Properties

	Initial	Final
<i>Water Content</i>		
Tare Number	2324	40
Wt. Tare & WS (gm)	94.82	175.20
Wt. Tare & DS (gm)	50.09	140.37
Wt. Water (gm)	44.73	34.83
Wt. Tare (gm)	7.87	101.55
Wt. DS (gm)	42.22	38.82
Water Content (%)	105.95	89.72

## Sample Parameters

Sample Diameter (in)	2.5	2.5
Sample Height (in)	0.75	0.660
Sample Volume (cc)	60.33	53.11
Wt. Wet Sample + Ring (gm)	159.95	153.37
Wt. of Ring (gm)	76.36	76.36
Wt. of Wet Sample (gm)	83.59	77.01
Wet Density (pcf)	86.46	90.47
Wet Density (g/cc)	1.39	1.45
Water Content (%)	105.95	89.72
Wt. of Dry Sample (gm)	40.59	40.59
Dry Density (pcf)	41.98	47.69
Dry Density (g/cc)	0.67	0.76
Void Ratio	3.0132	2.5330
Saturation (%)	94.93	95.64
Specific Gravity	2.70	Assumed

## Test Data Summary

Applied Pressure (tsf)	Final Reading (div)	Machine Deflection (div)	Corrected Reading (div)	Height of Sample (mm)	Volume (cc)	Dry Density (g/cc)	Void Ratio
Seating	0	0	0	19.050	60.330	0.67278	3.01322
0.25	23.4	8.9	14.5	19.013	60.213	0.67408	3.00544
0.5	31.5	15.8	15.7	19.010	60.204	0.67418	3.00484
1	61.1	26.9	34.2	18.963	60.055	0.67586	2.99491
2	143.6	39.4	104.2	18.785	59.492	0.68225	2.95747
4	412.6	54.3	358.3	18.140	57.448	0.70653	2.82151
1	380.3	34.8	345.5	18.173	57.551	0.70526	2.82836
0.25	348.7	17.9	330.8	18.210	57.669	0.70382	2.83620
0.5	353.2	21.8	331.4	18.208	57.664	0.70387	2.83591
1	362.0	29.5	332.5	18.205	57.655	0.70399	2.83530
2	380.1	41.8	338.3	18.191	57.609	0.70455	2.83222
4	425.0	54.4	370.7	18.109	57.348	0.70775	2.81489
8	983.4	69.8	913.6	16.729	52.981	0.76610	2.52436
4	969.8	63.0	906.8	16.747	53.036	0.76531	2.52800
1	939.2	40.1	899.1	16.766	53.097	0.76442	2.53211
0.25	921.0	23.5	897.5	16.770	53.111	0.76422	2.53299

Tested By TM Date 9/14/04 Input Checked By C-U Date 9/23/04

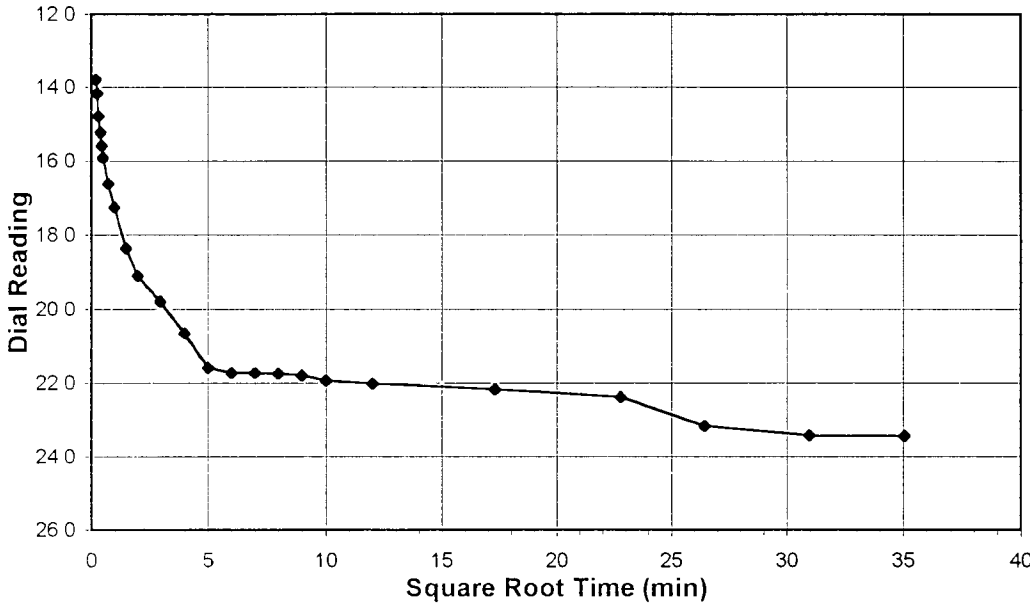


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-02	Sample No.	SS-58
Lab ID	2004-221-02-02	Visual Description	BROWN STABILIZED MATERIAL

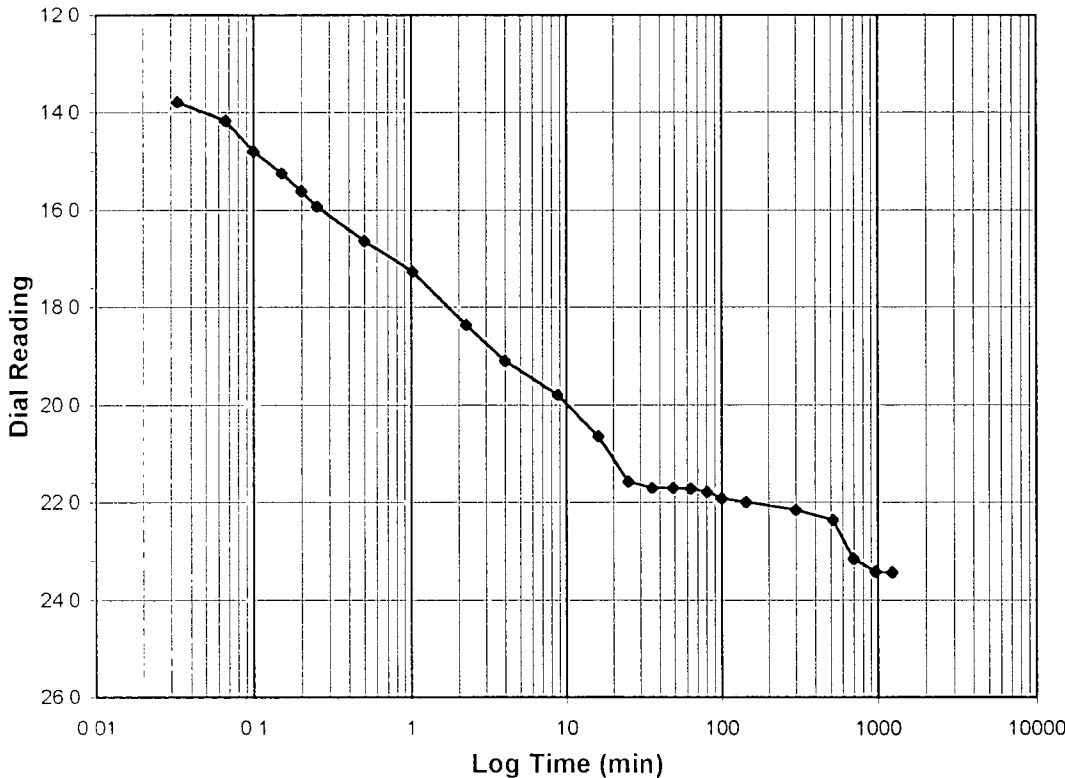
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0-0.25
Final Reading (div)	23.4
Consolidometer No.	1
1 Division (in)	0.0001

Start Date	9/14/04
Start Time	13:16:36

Elapsed Time (min)	Dial Reading (div)
Initial	0.0
0.03	13.8
0.07	14.2
0.10	14.8
0.15	15.2
0.20	15.6
0.25	15.9
0.50	16.6
1.02	17.3
2.25	18.4
4.02	19.1
8.78	19.8
16.00	20.7
25.00	21.6
36.00	21.7
49.00	21.7
64.00	21.7
81.00	21.8
100.00	21.9
144.00	22.0
300.00	22.2
520.00	22.4
700.00	23.2
960.00	23.4
1228.10	23.4



Tested By *TM* Date *9/14/04* Checked By *GU* Date *9/23/04*

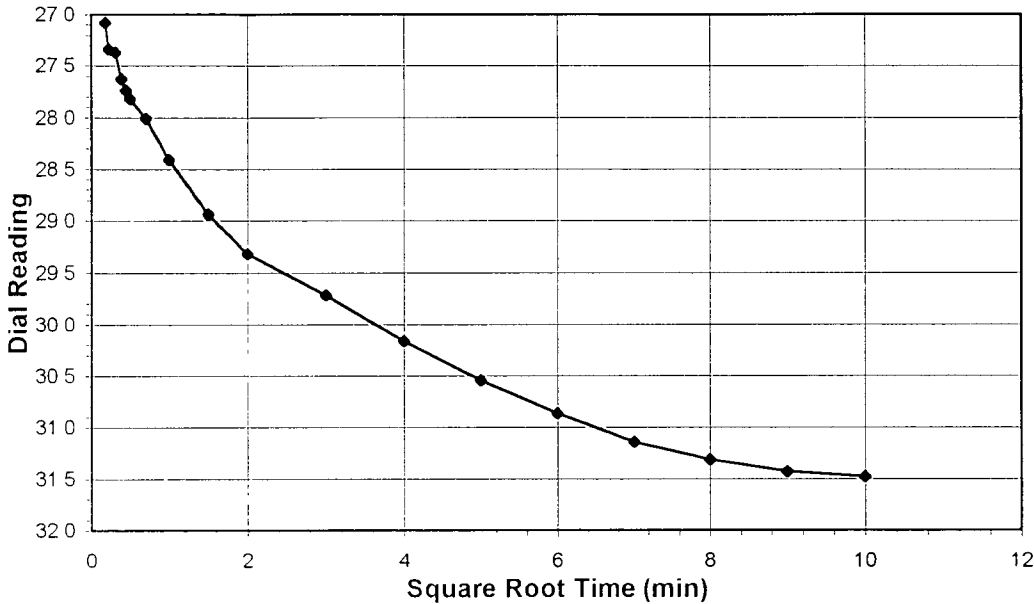


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-02	Sample No.	SS-58
Lab ID	2004-221-02-02	Visual Description	BROWN STABILIZED MATERIAL

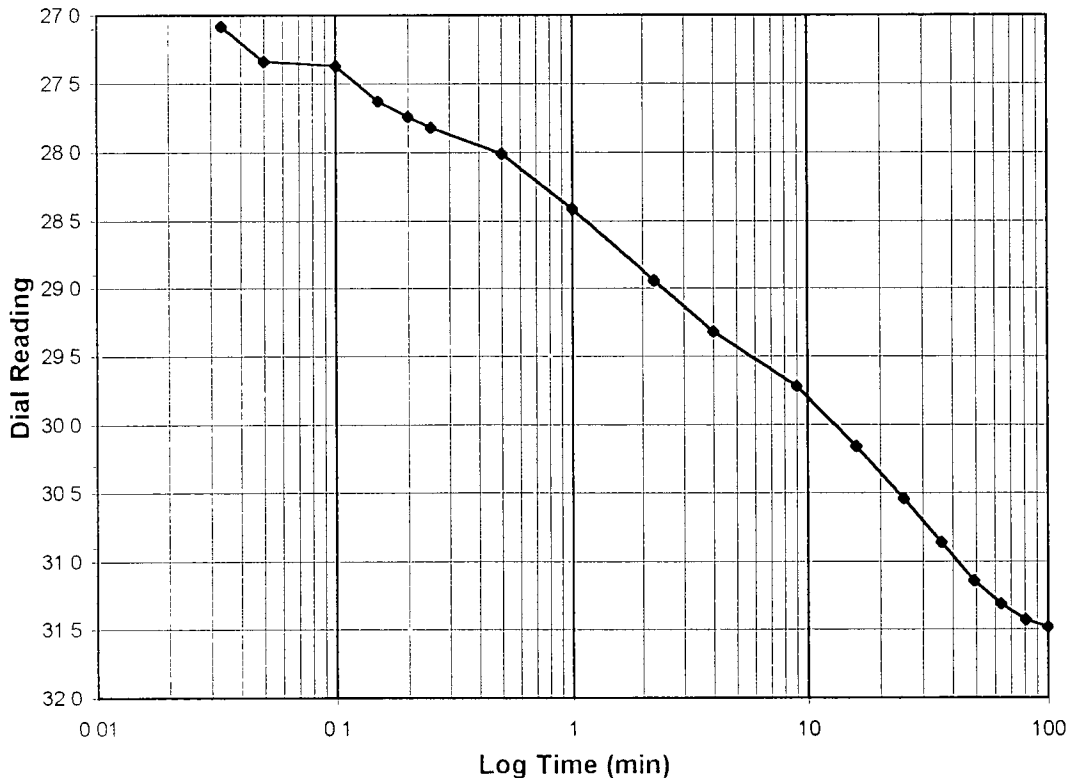
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.25-0.5
Final Reading (div)	31.5
Consolidometer No.	1
1 Division (in)	0.0001

Start Date	9/15/04
Start Time	10:02:26

Elapsed Time (min)	Dial Reading (div)
Initial	23.4
0.03	27.1
0.05	27.3
0.10	27.4
0.15	27.6
0.20	27.7
0.25	27.8
0.50	28.0
1.00	28.4
2.25	28.9
4.00	29.3
9.02	29.7
16.00	30.2
25.02	30.5
36.00	30.9
49.00	31.1
64.00	31.3
81.00	31.4
100.00	31.5



Tested By TM Date 9/15/04 Checked By GU Date 9/23/04

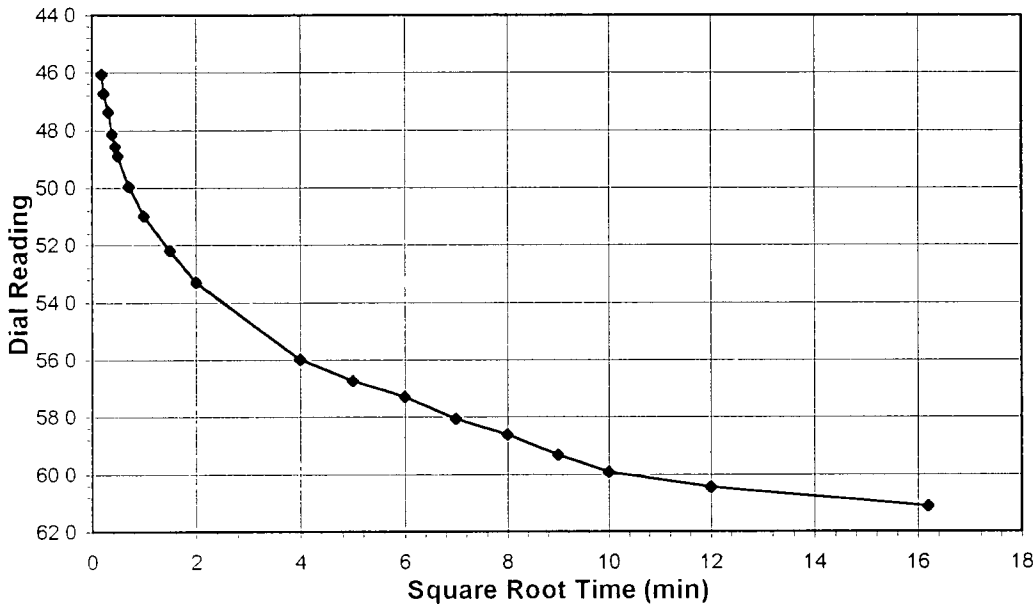


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-02	Sample No.	SS-58
Lab ID	2004-221-02-02	Visual Description	BROWN STABILIZED MATERIAL

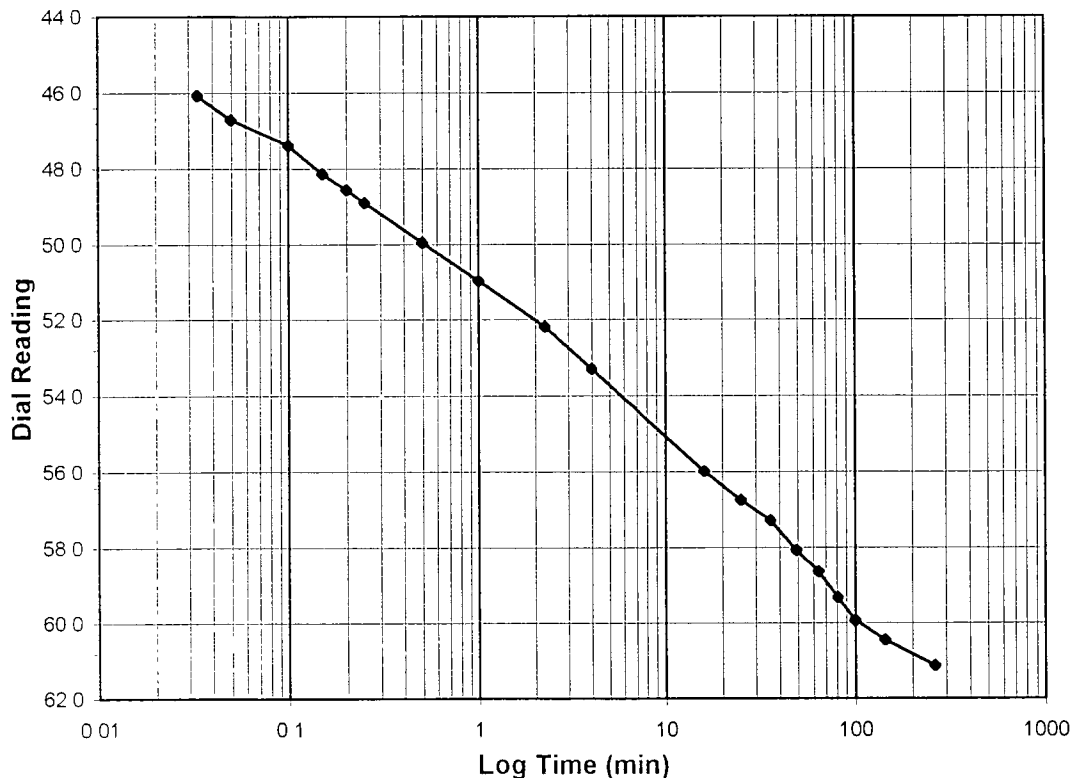
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.5-1.0
Final Reading (div)	61.1
Consolidometer No.	1
1 Division (in)	0.0001

Start Date	9/15/04
Start Time	11:56:22

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>31.5</b>
0.03	46.1
0.05	46.7
0.10	47.4
0.15	48.1
0.20	48.6
0.25	48.9
0.50	50.0
1.00	51.0
2.25	52.2
4.02	53.3
16.00	56.0
25.00	56.7
36.00	57.3
49.00	58.1
64.00	58.6
81.00	59.3
100.00	59.9
144.00	60.4
262.45	61.1



Tested By *TM* Date *9/15/04* Checked By *GU* Date *9/23/04*

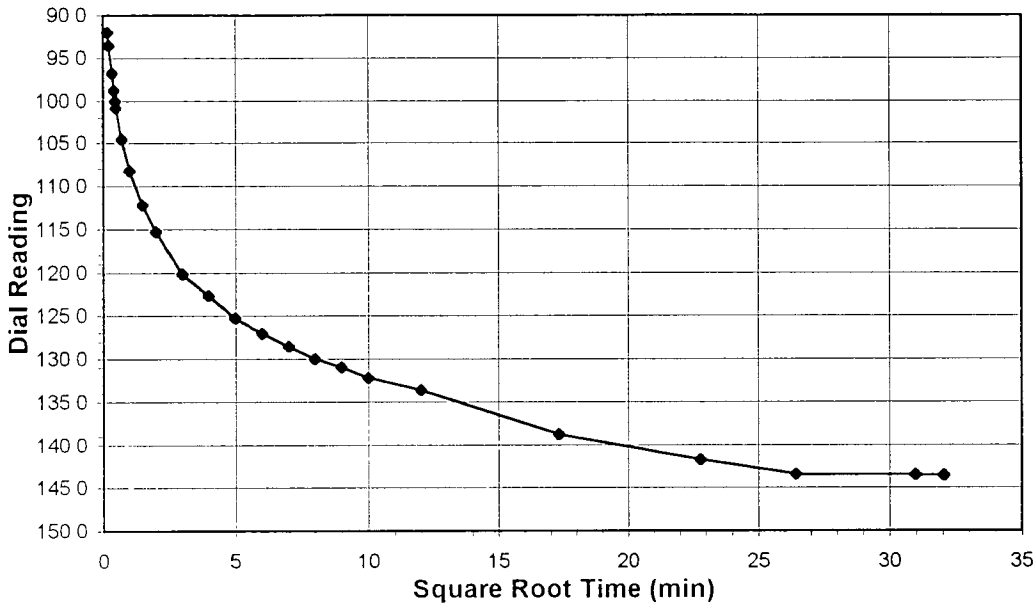


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-02	Sample No.	SS-58
Lab ID	2004-221-02-02	Visual Description	BROWN STABILIZED MATERIAL

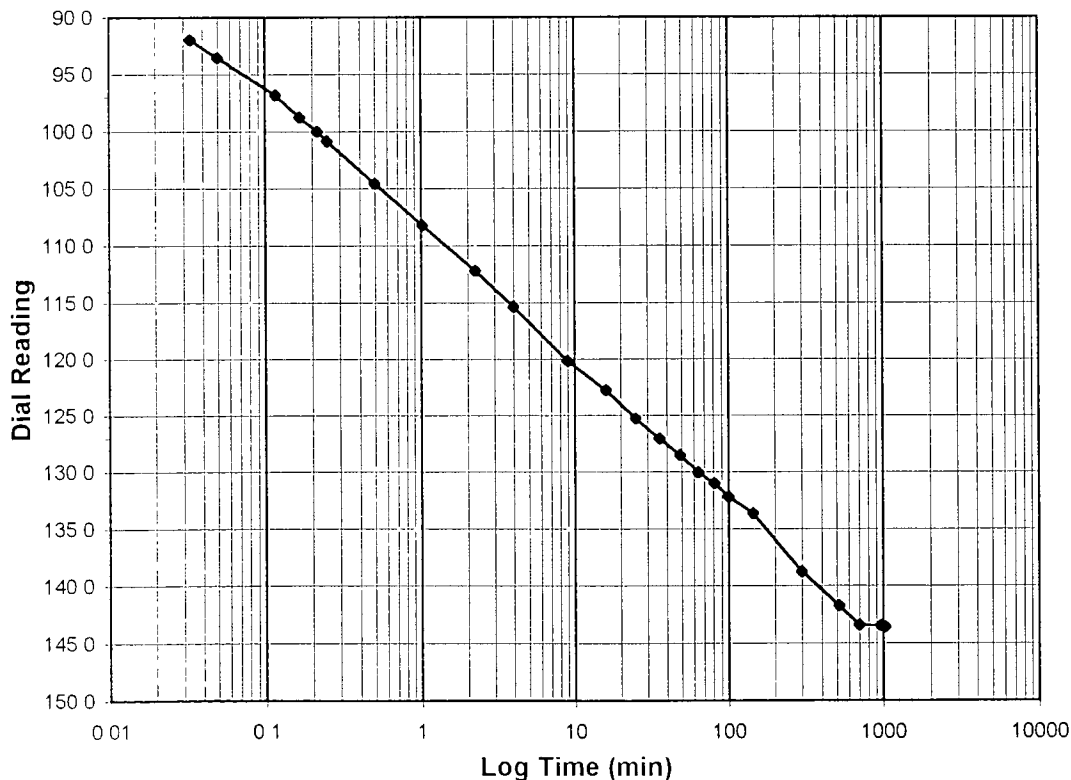
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	1.0-2.0
Final Reading (div)	143.6
Consolidometer No.	1
1 Division (in)	0.0001

Start Date	9/15/04
Start Time	16:23:39

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>61.1</b>
0.03	92.0
0.05	93.5
0.12	96.8
0.17	98.8
0.22	100.0
0.25	100.9
0.50	104.6
1.02	108.2
2.25	112.2
4.00	115.4
9.02	120.2
16.00	122.7
25.02	125.3
36.00	127.1
49.00	128.5
64.00	130.0
81.00	131.0
100.00	132.2
144.02	133.6
300.00	138.8
520.00	141.7
700.00	143.4
960.00	143.5
1028.12	143.6



Tested By TM Date 9/15/04 Checked By GU Date 9/23/04

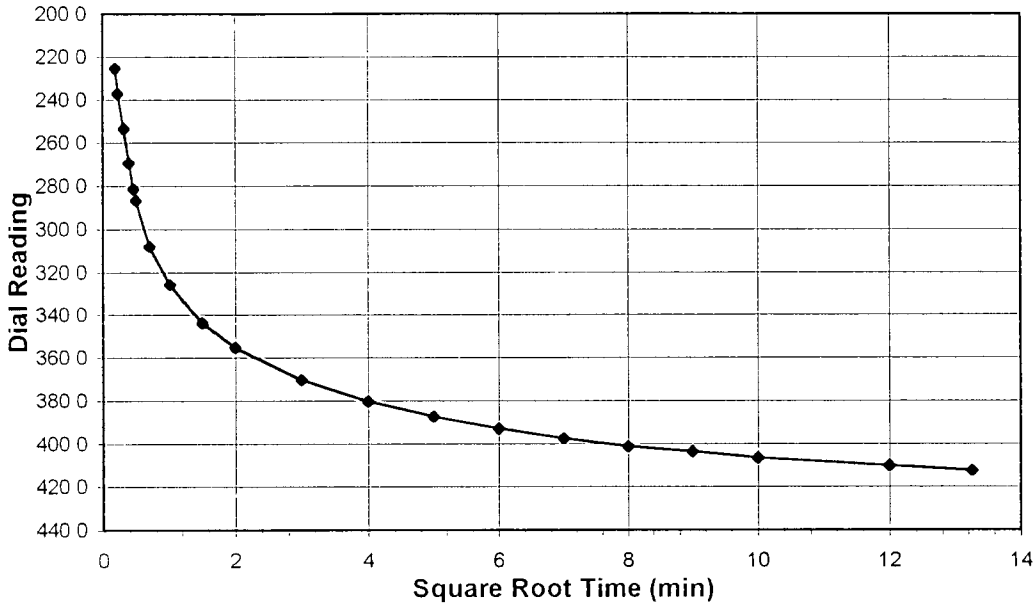


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

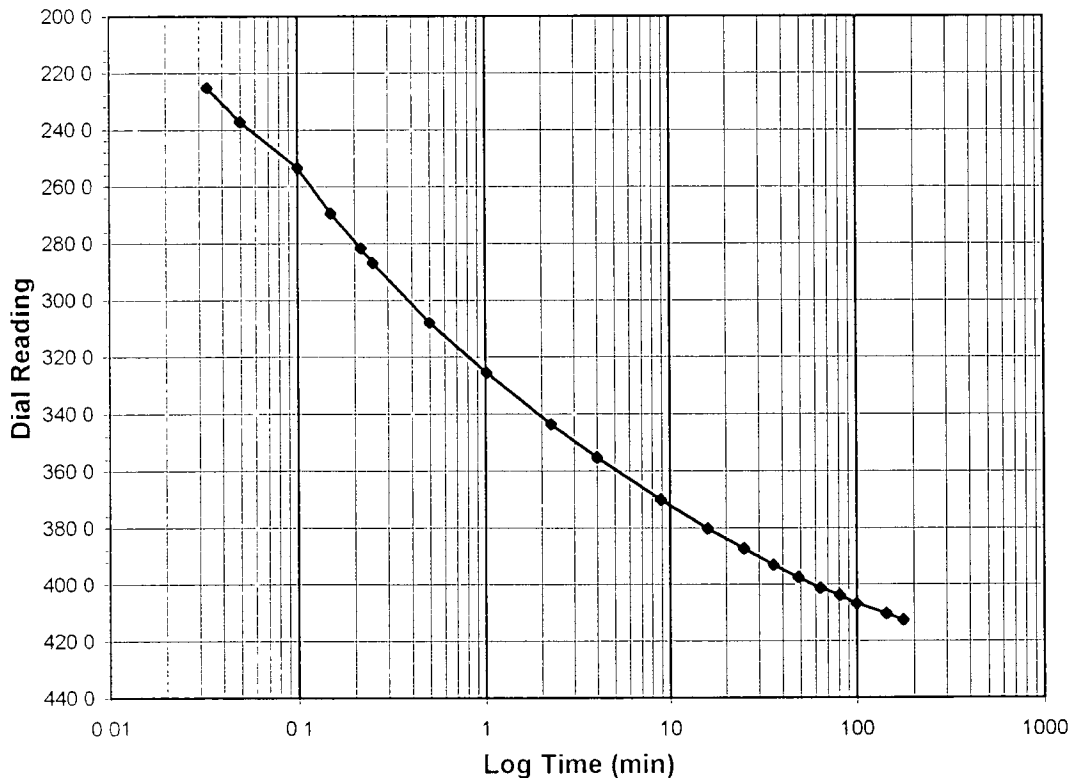
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-02	Sample No.	SS-58
Lab ID	2004-221-02-02	Visual Description	BROWN STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	2.0-4.0
Final Reading (div)	412.6
Consolidometer No.	1
1 Division (in)	0.0001
Start Date	9/16/04
Start Time	9:54:52

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>143.6</b>
0.03	225.3
0.05	237.1
0.10	253.4
0.15	269.3
0.22	281.6
0.25	286.7
0.50	307.9
1.02	325.7
2.25	343.6
4.00	355.2
8.98	370.3
16.00	380.3
25.00	387.3
36.00	393.2
49.00	397.4
64.00	401.3
81.00	403.7
100.00	406.6
144.00	410.2
175.67	412.6



Tested By *TM* Date *9/16/04* Checked By *GU* Date *9/23/04*



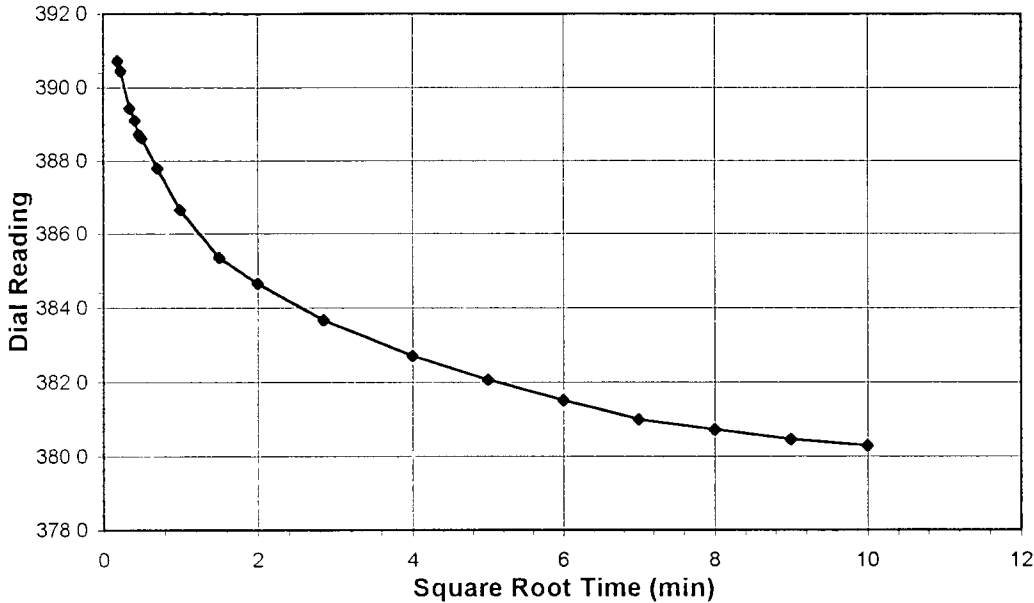


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

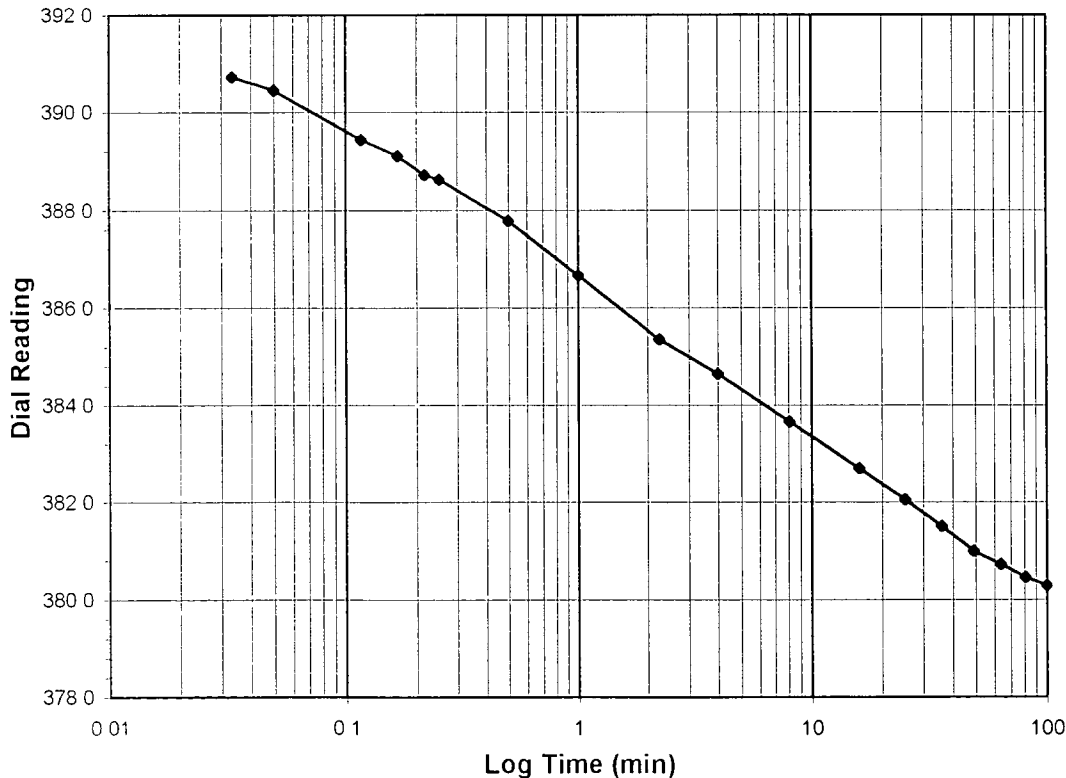
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-02	Sample No.	SS-58
Lab ID	2004-221-02-02	Visual Description	BROWN STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	4.0-1.0
Final Reading (div)	380.3
Consolidometer No.	1
1 Division (in)	0.0001
Start Date	9/16/04
Start Time	12:58:52

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>412.6</b>
0.03	390.7
0.05	390.5
0.12	389.4
0.17	389.1
0.22	388.7
0.25	388.6
0.50	387.8
1.00	386.7
2.25	385.4
4.00	384.6
8.12	383.7
16.00	382.7
25.00	382.1
36.00	381.5
49.00	381.0
64.00	380.7
81.00	380.5
100.00	380.3



Tested By *TM* Date *9/16/04* Checked By *GU* Date *9/23/04*

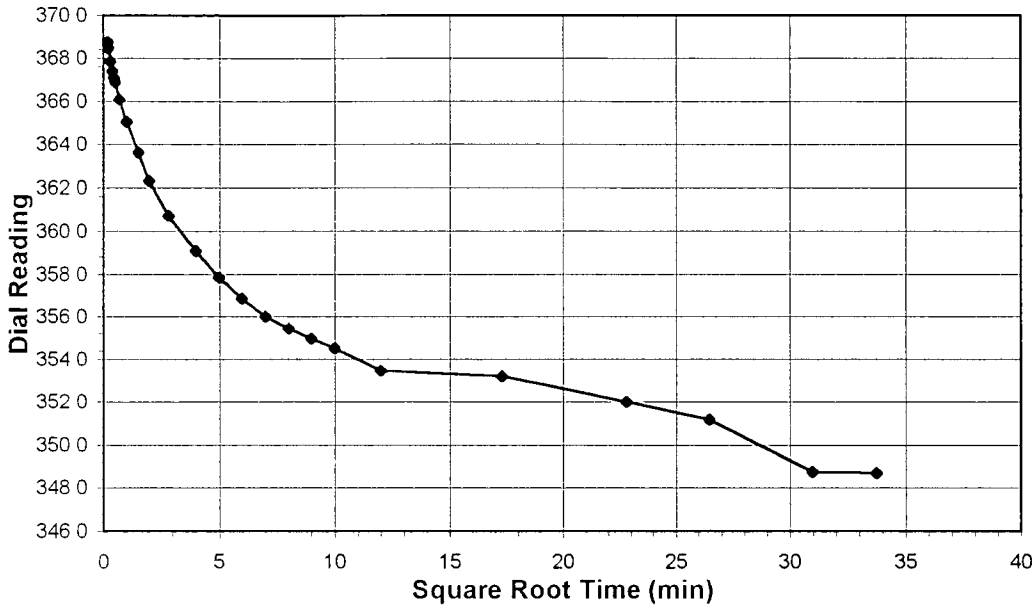


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-02	Sample No.	SS-58
Lab ID	2004-221-02-02	Visual Description	BROWN STABILIZED MATERIAL

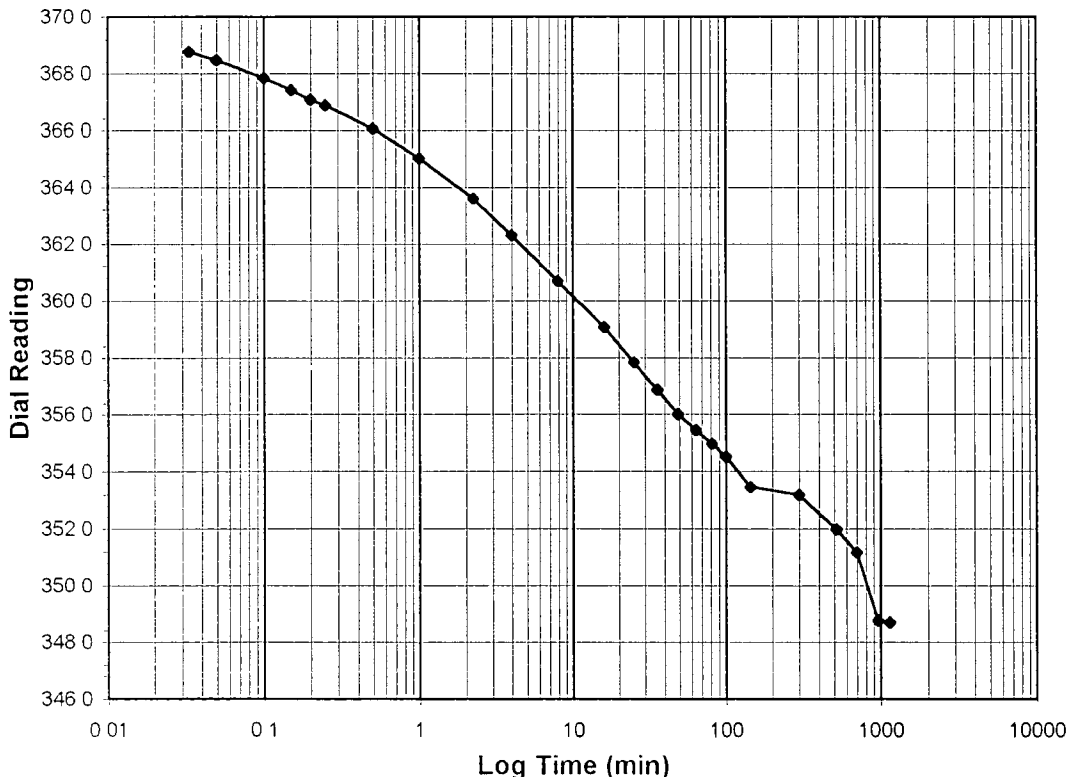
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	1.0-0.25
Final Reading (div)	348.7
Consolidometer No.	1
1 Division (in)	0.0001

Start Date	9/16/04
Start Time	14:49:11

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>380.3</b>
0.03	368.8
0.05	368.5
0.10	367.8
0.15	367.4
0.20	367.1
0.25	366.9
0.50	366.1
1.00	365.0
2.25	363.6
4.00	362.3
7.98	360.7
16.00	359.1
25.00	357.8
36.00	356.9
49.00	356.0
64.00	355.4
81.00	355.0
100.00	354.5
144.00	353.5
300.00	353.2
520.00	352.0
700.00	351.2
960.00	348.8
1139.00	348.7



Tested By *TM* Date *9/16/04* Checked By *GU* Date *9/23/04*

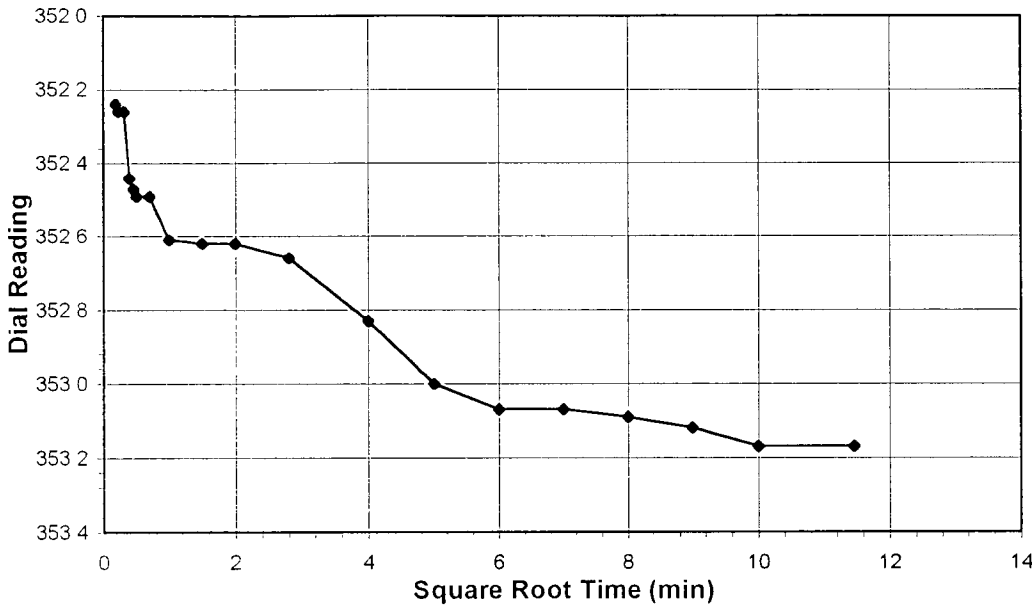


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

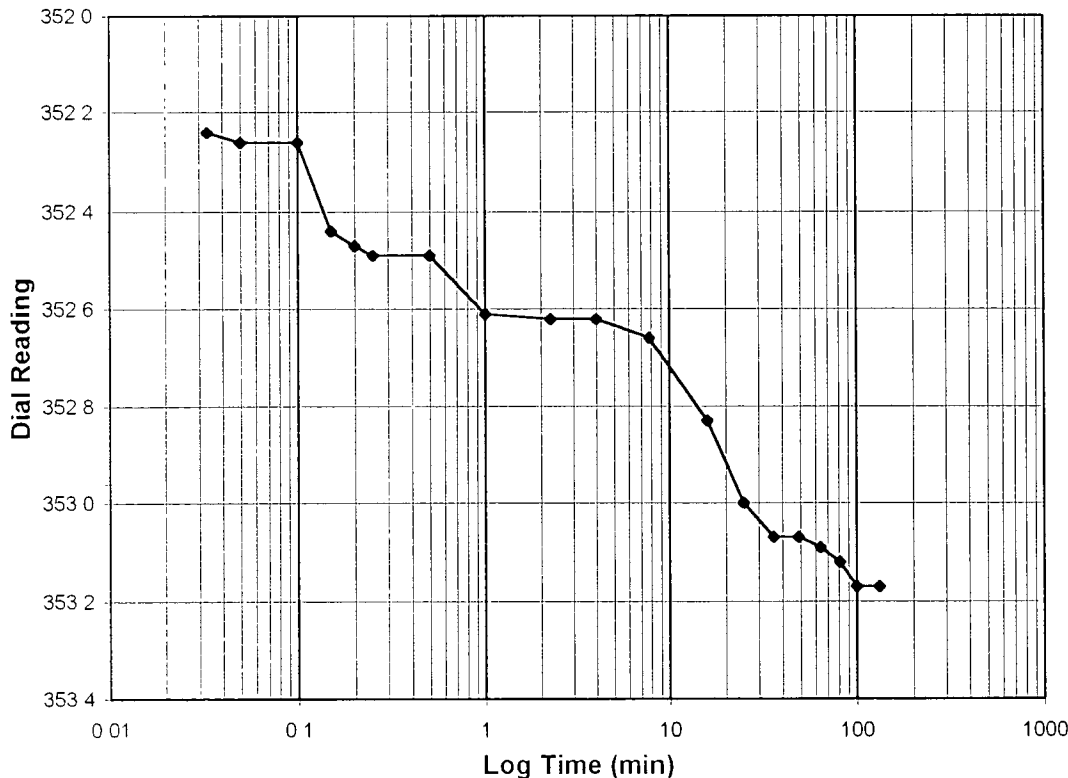
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-02	Sample No.	SS-58
Lab ID	2004-221-02-02	Visual Description	BROWN STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.25-0.5
Final Reading (div)	353.2
Consolidometer No.	1
1 Division (in)	0.0001
Start Date	9/17/04
Start Time	10:15:01

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>348.7</b>
0.03	352.2
0.05	352.3
0.10	352.3
0.15	352.4
0.20	352.5
0.25	352.5
0.50	352.5
1.00	352.6
2.25	352.6
4.00	352.6
7.85	352.7
16.00	352.8
25.00	353.0
36.00	353.1
49.00	353.1
64.00	353.1
81.00	353.1
100.00	353.2
131.43	353.2



Tested By *TM* Date *9/17/04* Checked By *GU* Date *9/23/04*

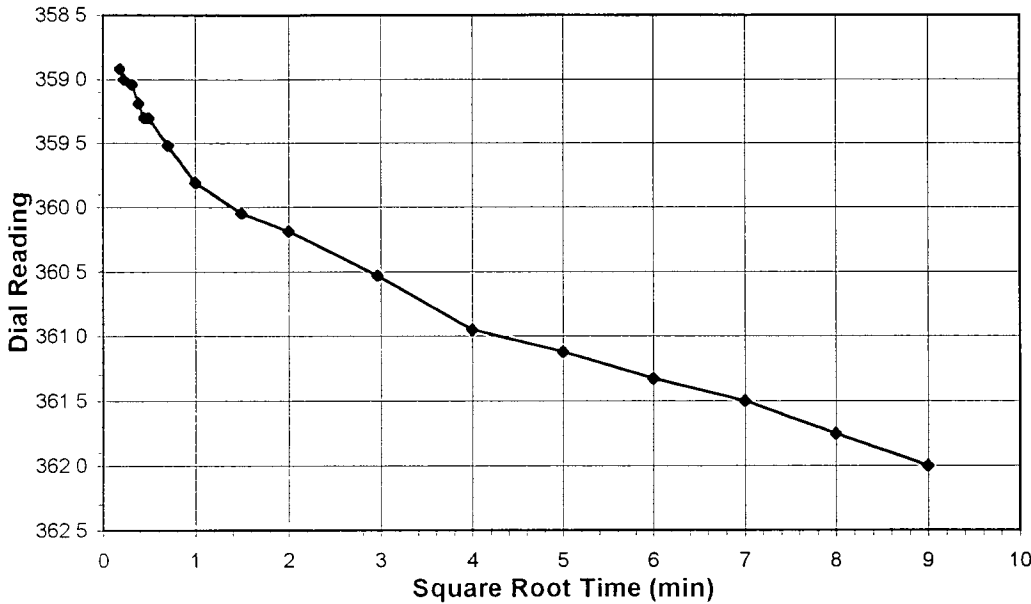


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-02	Sample No.	SS-58
Lab ID	2004-221-02-02	Visual Description	BROWN STABILIZED MATERIAL

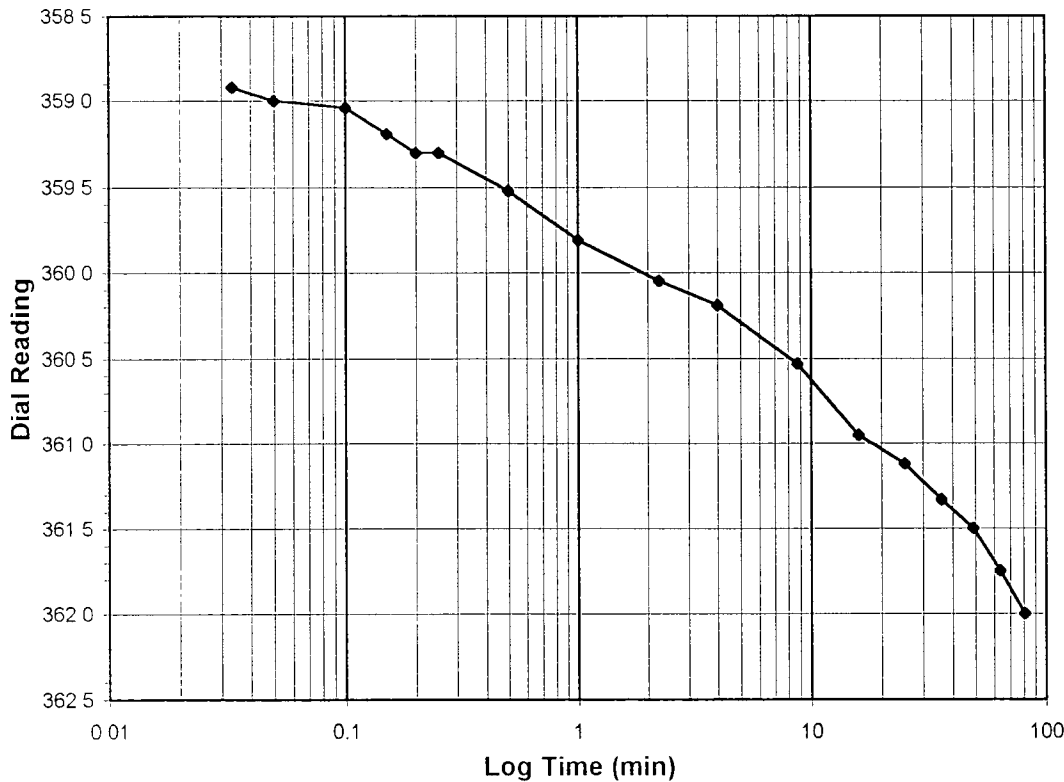
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.5-1.0
Final Reading (div)	362.0
Consolidometer No.	1
1 Division (in)	0.0001

Start Date	9/17/04
Start Time	12:33:50

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>353.2</b>
0.03	358.9
0.05	359.0
0.10	359.0
0.15	359.2
0.20	359.3
0.25	359.3
0.50	359.5
1.00	359.8
2.25	360.1
4.00	360.2
8.78	360.5
16.00	361.0
25.00	361.1
36.00	361.3
49.00	361.5
64.00	361.8
81.00	362.0



Tested By *TM* Date *9/17/04* Checked By *GU* Date *9/23/04*

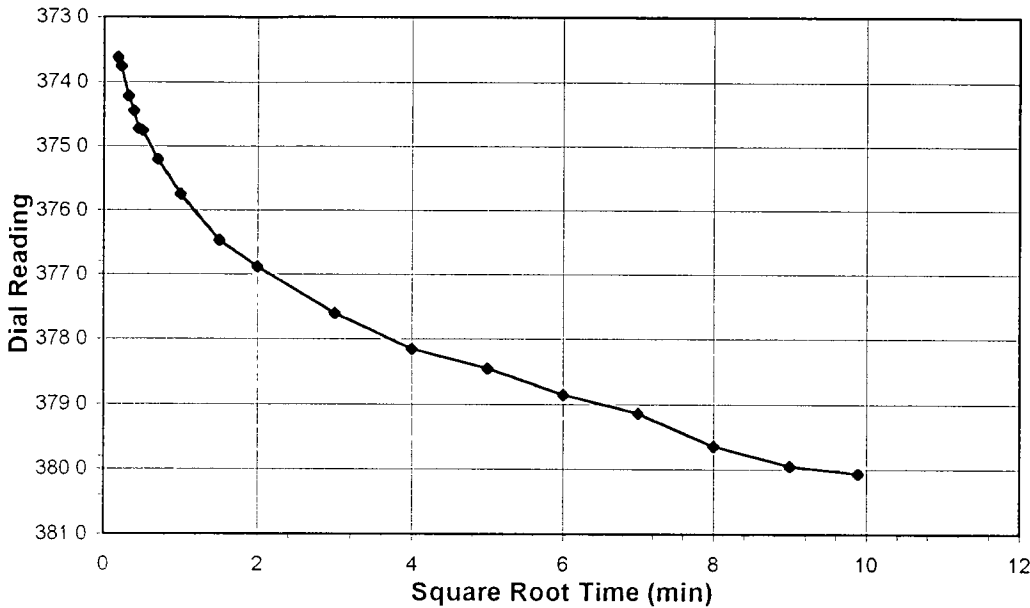


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-02	Sample No.	SS-58
Lab ID	2004-221-02-02	Visual Description	BROWN STABILIZED MATERIAL

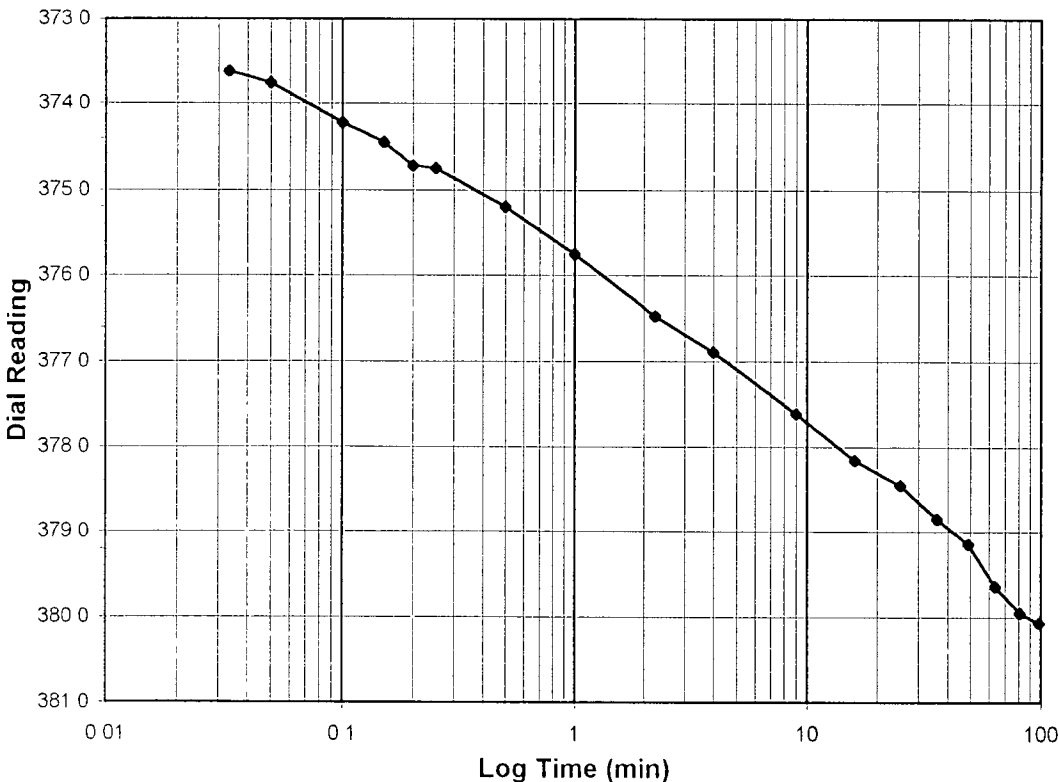
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	1.0-2.0
Final Reading (div)	380.1
Consolidometer No.	1
1 Division (in)	0.0001

Start Date	9/17/04
Start Time	14:11:43

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>362.0</b>
0.03	373.6
0.05	373.8
0.10	374.2
0.15	374.5
0.20	374.7
0.25	374.8
0.50	375.2
1.00	375.8
2.25	376.5
4.00	376.9
9.02	377.6
16.00	378.2
25.00	378.5
36.00	378.9
49.00	379.1
64.02	379.6
81.00	380.0
97.90	380.1



Tested By *TM* Date *9/17/04* Checked By *GU* Date *9/23/04*

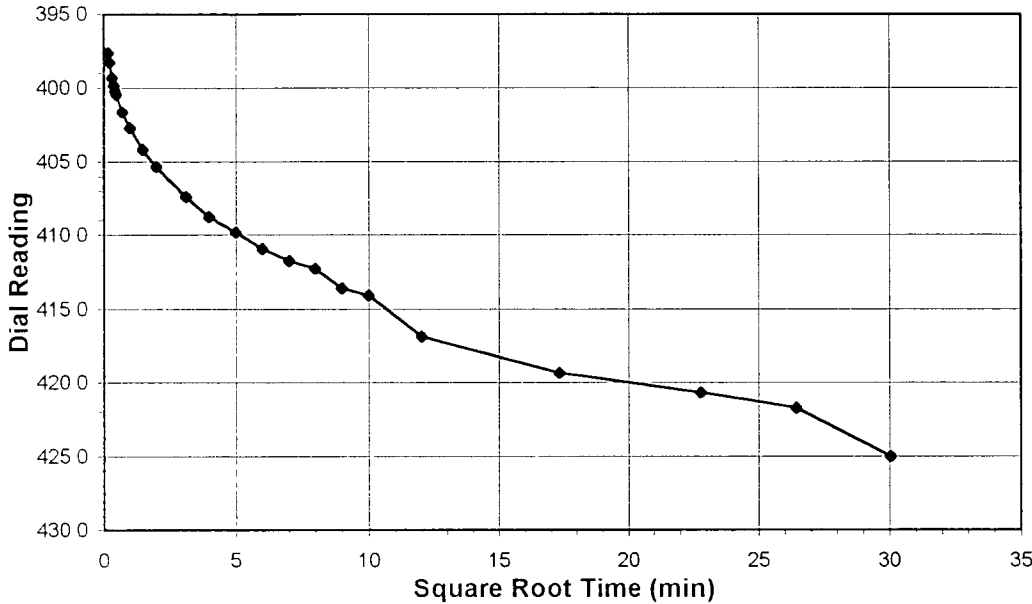


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

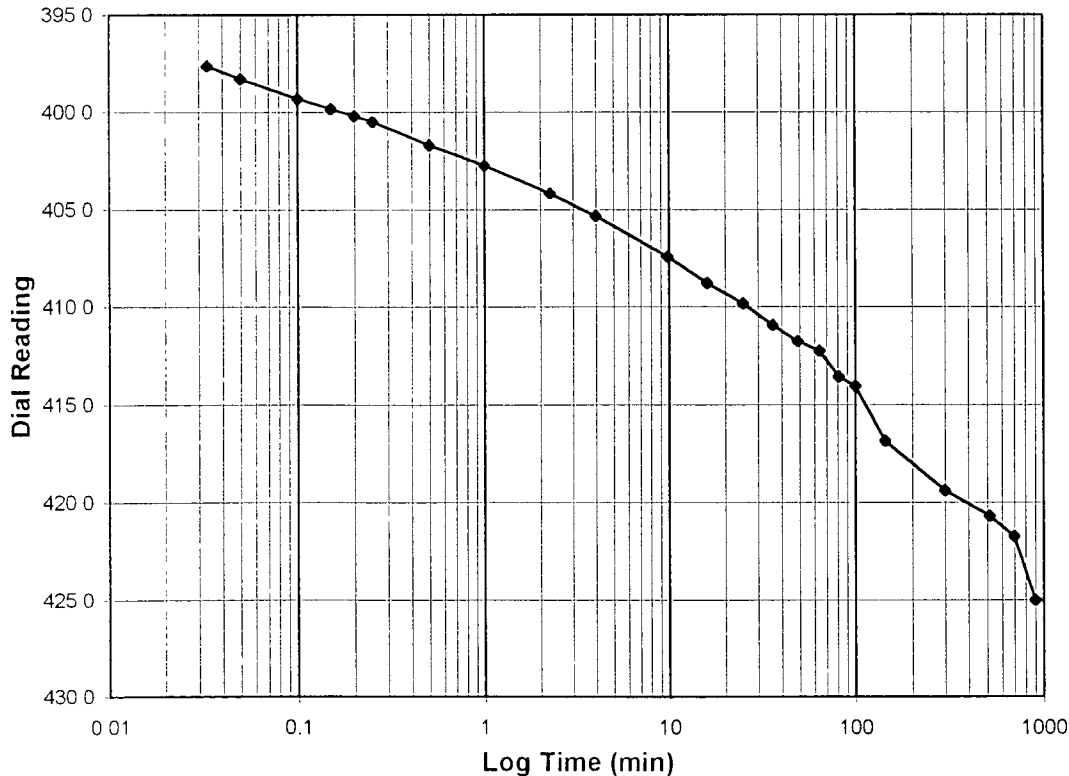
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-02	Sample No.	SS-58
Lab ID	2004-221-02-02	Visual Description	BROWN STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	2.0-4.0
Final Reading (div)	425.0
Consolidometer No.	1
1 Division (in)	0.0001
Start Date	9/17/04
Start Time	15:55:40

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>380.1</b>
0.03	397.6
0.05	398.3
0.10	399.3
0.15	399.8
0.20	400.2
0.25	400.5
0.50	401.7
1.00	402.7
2.25	404.2
4.00	405.3
9.82	407.4
16.00	408.8
25.00	409.8
36.00	411.0
49.00	411.8
64.00	412.3
81.00	413.6
100.00	414.1
144.00	416.9
300.00	419.4
520.00	420.7
700.00	421.7
903.40	425.0



Tested By *TM* Date *9/17/04* Checked By *GU* Date *9/23/04*

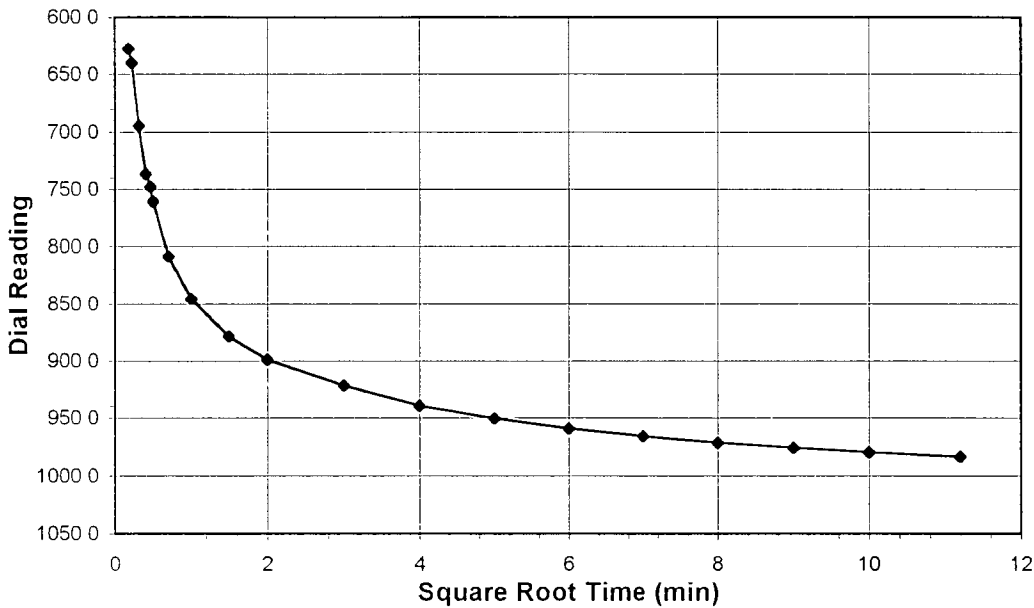


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

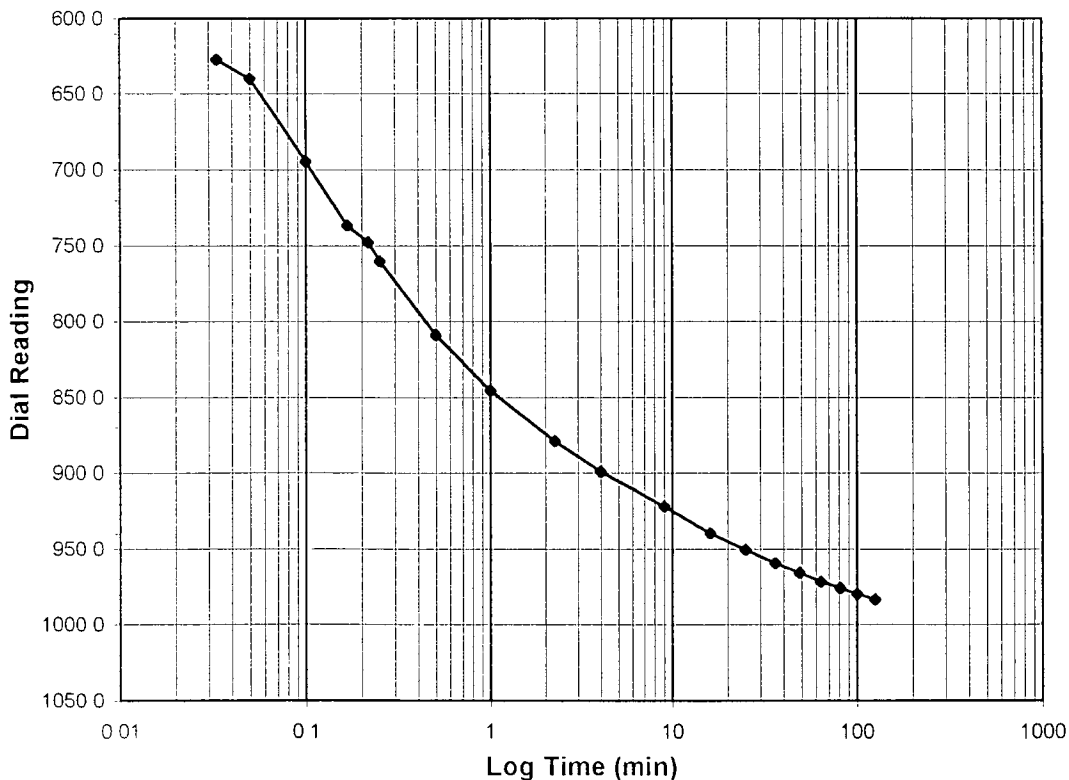
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-02	Sample No.	SS-58
Lab ID	2004-221-02-02	Visual Description	BROWN STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	4.0-8.0
Final Reading (div)	983.4
Consolidometer No.	1
1 Division (in)	0.0001
Start Date	9/18/04
Start Time	9:09:12

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>425.0</b>
0.03	627.5
0.05	640.1
0.10	694.5
0.17	736.7
0.22	747.6
0.25	760.2
0.50	808.9
1.00	845.5
2.25	878.7
4.00	898.9
9.02	921.6
16.00	939.4
25.00	950.6
36.00	959.5
49.00	965.8
64.00	971.6
81.02	975.8
100.00	979.4
125.42	983.4



Tested By *TM* Date *9/18/04* Checked By *GU* Date *9/23/04*

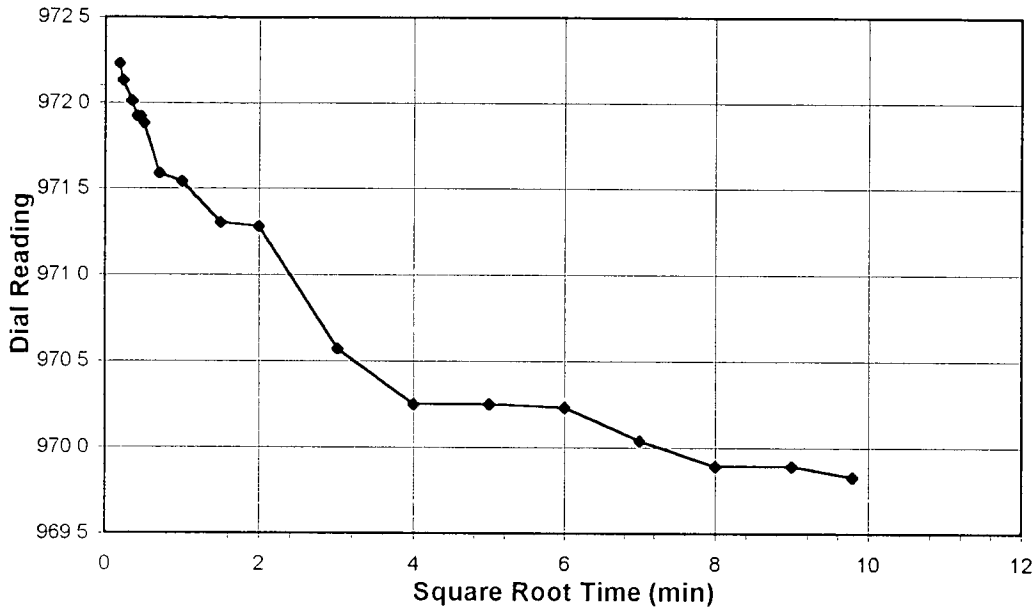


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

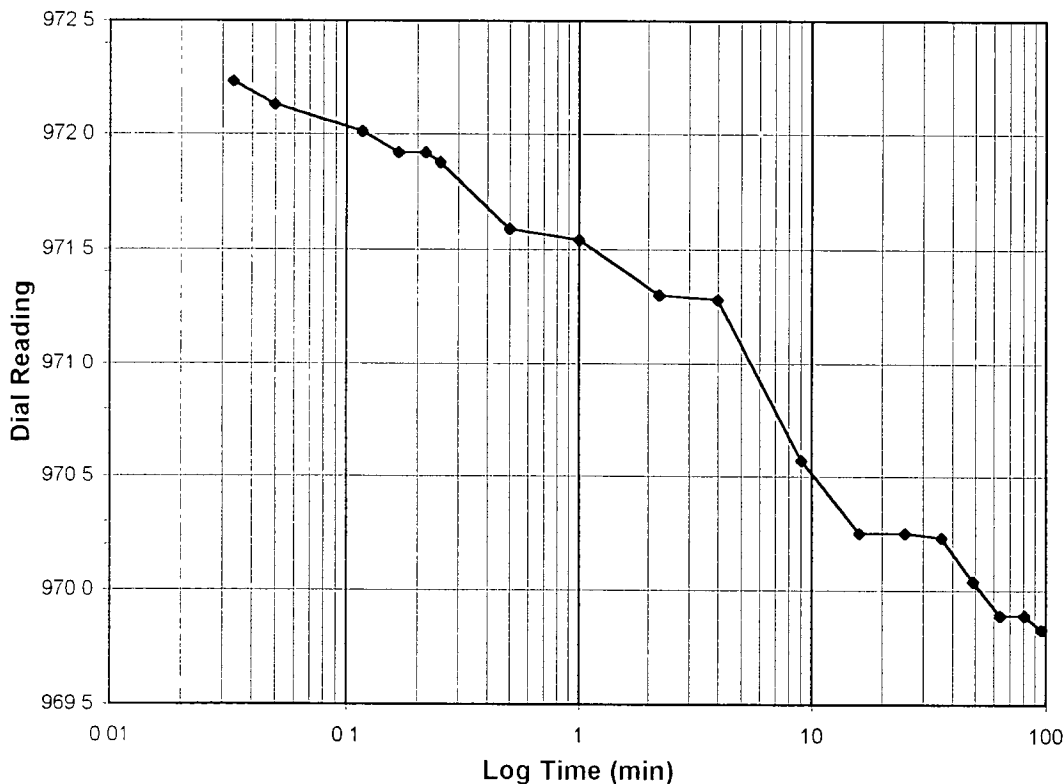
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-02	Sample No.	SS-58
Lab ID	2004-221-02-02	Visual Description	BROWN STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



<b>Test Load (tsf)</b>	<b>8.0-4.0</b>
<b>Final Reading (div)</b>	<b>969.8</b>
Consolidometer No.	1
1 Division (in)	0.0001
<b>Start Date</b>	<b>9/20/04</b>
<b>Start Time</b>	<b>11:02:17</b>

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>983.4</b>
0.03	972.2
0.05	972.1
0.12	972.0
0.17	971.9
0.22	971.9
0.25	971.9
0.50	971.6
1.00	971.5
2.25	971.3
4.00	971.3
9.08	970.6
16.00	970.3
25.00	970.3
36.00	970.2
49.02	970.0
64.00	969.9
81.00	969.9
95.92	969.8



Tested By TM Date 9/20/04 Checked By GU Date 9/23/04



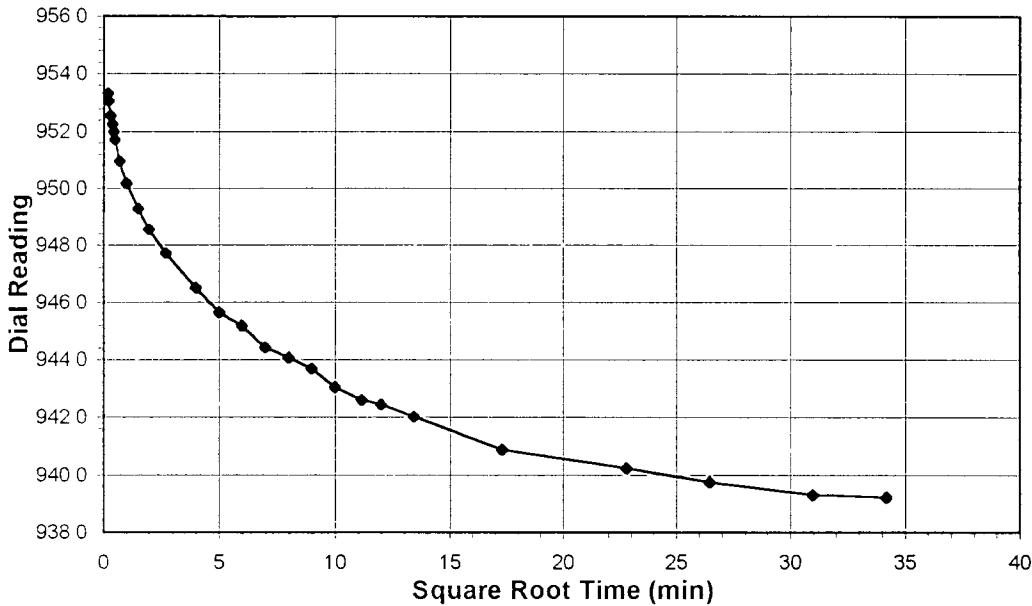


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

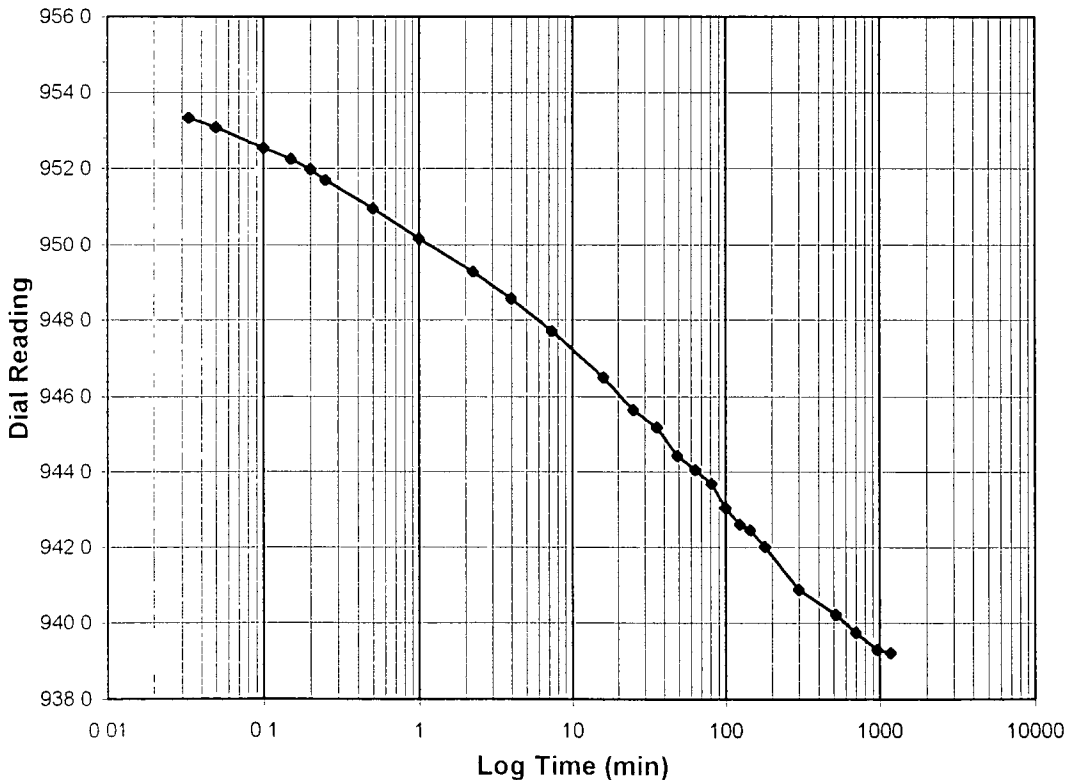
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-02	Sample No.	SS-58
Lab ID	2004-221-02-02	Visual Description	BROWN STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	4.0-1.0
Final Reading (div)	939.2
Consolidometer No.	1
1 Division (in)	0.0001
Start Date	9/20/04
Start Time	12:43:06

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>969.8</b>
0.03	953.3
0.05	953.1
0.10	952.5
0.15	952.3
0.20	952.0
0.25	951.7
0.50	951.0
1.00	950.2
2.25	949.3
4.00	948.6
7.33	947.7
16.00	946.5
25.00	945.6
36.00	945.2
49.00	944.4
64.00	944.1
81.00	943.7
100.00	943.1
124.05	942.6
144.00	942.5
180.35	942.0
300.00	940.9
520.00	940.2
700.00	939.8
960.00	939.3
1169.87	939.2



Tested By *TM* Date *9/20/04* Checked By *GU* Date *9/23/04*

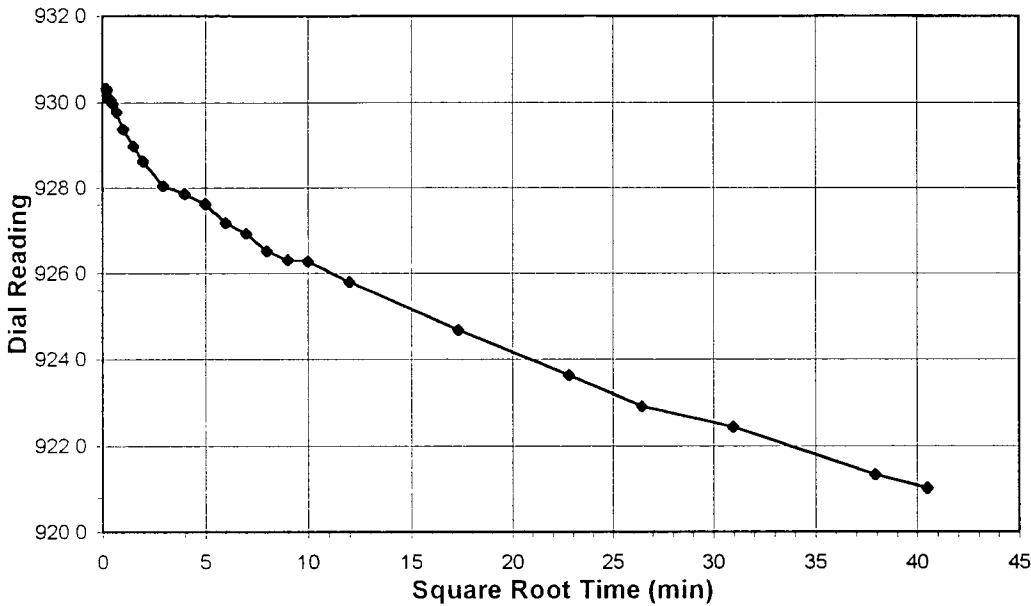


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-02	Sample No.	SS-58
Lab ID	2004-221-02-02	Visual Description	BROWN STABILIZED MATERIAL

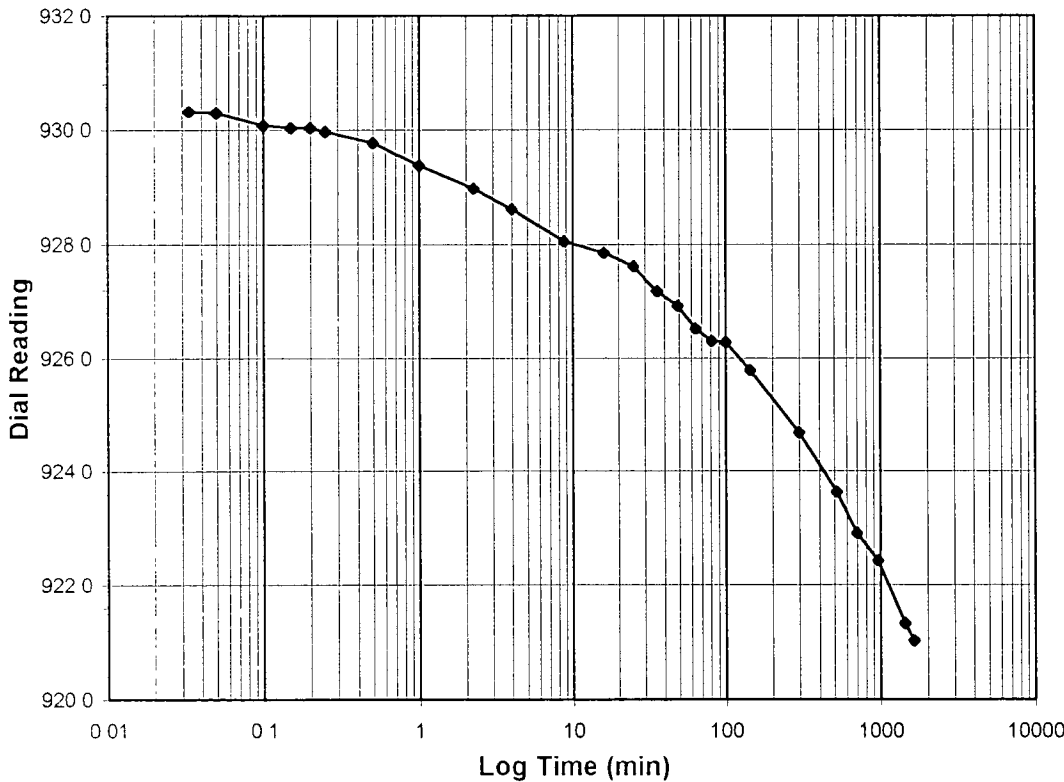
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	1.0-0.25
Final Reading (div)	921.0
Consolidometer No.	1
1 Division (in)	0.0001

Start Date	9/21/04
Start Time	8:20:20

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>939.2</b>
0.03	930.3
0.05	930.3
0.10	930.1
0.15	930.0
0.20	930.0
0.25	930.0
0.50	929.8
1.00	929.4
2.25	929.0
4.00	928.6
8.78	928.1
16.00	927.9
25.00	927.6
36.00	927.2
49.00	926.9
64.00	926.5
81.00	926.3
100.00	926.3
144.00	925.8
300.00	924.7
520.00	923.6
700.00	922.9
960.00	922.4
1440.00	921.3
1640.48	921.0



Tested By *TM* Date *9/21/04* Checked By *GU* Date *9/23/04*

**UNCONFINED COMPRESSIVE STRENGTH**  
ASTM D2166-00 (SOP S-30)



Client BLASLAND, BOUCK, AND LEE  
 Client Reference GEHR TREATABILITY 204.302  
 Project No. 2004-221-02  
 Lab ID 2004-221-02-02

Boring No. NA  
 Depth (ft.) NA  
 Sample No. SS-58  
 Visual BROWN STABILIZED SLUDGE

INITIAL SAMPLE DIMENSIONS			
Length 1(in)	3.609	Top Dia. (in)	2.021
Length 2(in)	3.563	Mid. Dia. (in)	1.997
Length 3(in)	3.556	Bot. Dia. (in)	2.015
Avg.Length(in)	3.576	Area (in.^2)	3.176

WATER CONTENT AFTER TEST	
Tare No.	2463
Wt. Tare + WS (gms)	163.30
Wt. Tare + DS.(gms)	131.97
Wt. of Tare(gms)	98.43
% Moisture	93.41

UNIT WEIGHT			
Wt. Tube & WS.(gms.)	254.9	Sample Volume(cc.)	186.1
Wt. Of Tube(gms.)	0.0	Unit Wet Wt.(gms/cc)	1.37
Wt. Of WS.(gms.)	254.87	Unit Wet Wt.(pcf.)	85.45
Diameter (in.)	2.01	Moisture Content, %	93.41
Length (in.)	3.58	Unit Dry Wt.(pcf.)	44.18
Length (cm.)	9.08		

DEFORMATION (in)	LOAD (lbs)	ELAPSED TIME (min.)	STRAIN (%)	STRESS (psi)
0.000	1.4	0.00	0.00	0.00
0.002	2.9	0.05	0.05	0.45
0.003	5.5	0.10	0.09	1.26
0.007	11.8	0.20	0.19	3.25
0.013	18.7	0.35	0.35	5.40
0.020	25.3	0.55	0.55	7.48
0.029	34.6	0.80	0.80	10.36
0.043	51.8	1.20	1.20	15.65
0.057	69.4	1.60	1.60	21.06
0.072	84.9	2.02	2.01	25.73
0.086	96.7	2.42	2.41	29.28
0.108	107.9	3.02	3.01	32.52
0.122	112.7	3.42	3.42	33.83
0.151	106.0	4.23	4.22	31.54
0.180	60.9	5.03	5.03	17.77
0.215	41.3	6.03	6.02	11.78
0.233	39.5	6.53	6.52	11.21

Tested By JCM

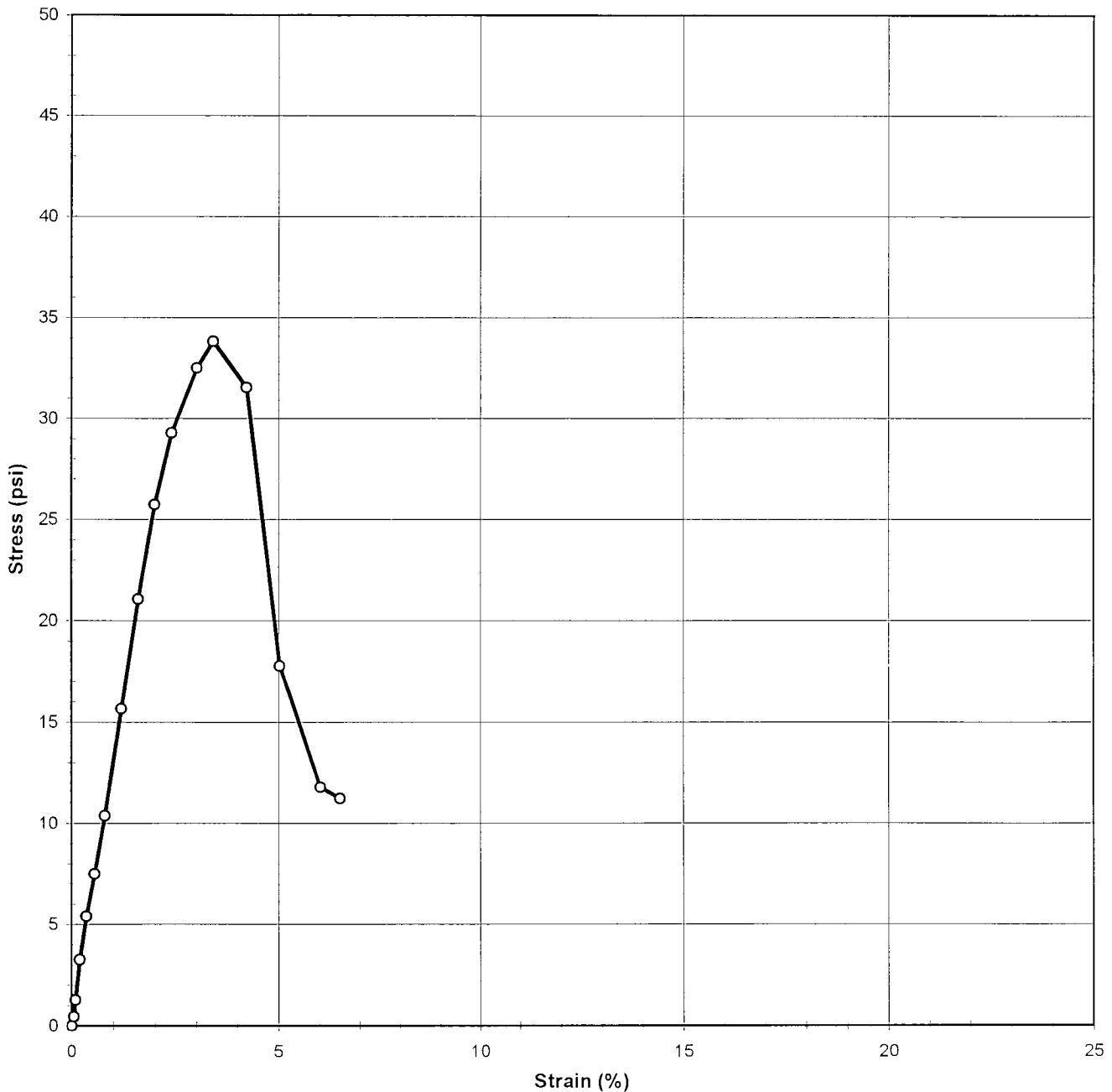
Date 09/17/04

Input Checked By

Date 9/21/04

**UNCONFINED COMPRESSIVE STRENGTH**  
ASTM D2166-00 (SOP S-30)

Client	BLASLAND, BOUCK, AND LEE	Boring No.	NA
Client Reference	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-02	Sample No.	SS-58
Lab ID	2004-221-02-02	Visual	BROWN STABILIZED SLUDGE

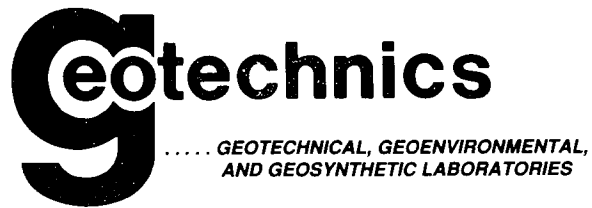


Tested By JCM

Date 09/17/04 Approved By

*DB*

Date *9/21/04*



March 7, 2005

Project No. 2004-221-03

Mr Pat Foos  
BB&L Environmental Services  
6723 Towpath Road  
Syracuse, NY 13214

**Transmittal**  
**Laboratory Test Results**  
**GEHR Treatability 204.302**

Please find attached the laboratory test results for the above referenced project. The tests were outlined on the Project Verification Form that was faxed to your firm prior to the testing. The testing was performed in general accordance with the methods listed on the enclosed data sheets. The test results are believed to be representative of the samples that were submitted for testing and are indicative only of the specimens which were evaluated. We have no direct knowledge of the origin of the samples and imply no position with regard to the nature of the test results, i.e. pass/fail and no claims as to the suitability of the material for its intended use.

The test data and all associated project information provided shall be held in strict confidence and disclosed to other parties only with authorization by our Client. The test data submitted herein is considered integral with this report and is not to be reproduced except in whole and only with the authorization of the Client and Geotechnics. The remaining sample materials for this project will be retained for a minimum of 90 days as directed by the Geotechnics' Quality Program.

We are pleased to provide these testing services. Should you have any questions or if we may be of further assistance, please contact our office.

Respectfully submitted,  
Geotechnics, Inc.

David R. Backstrom  
Laboratory Director

***We understand that you have a choice in your laboratory services  
and we thank you for choosing Geotechnics.***

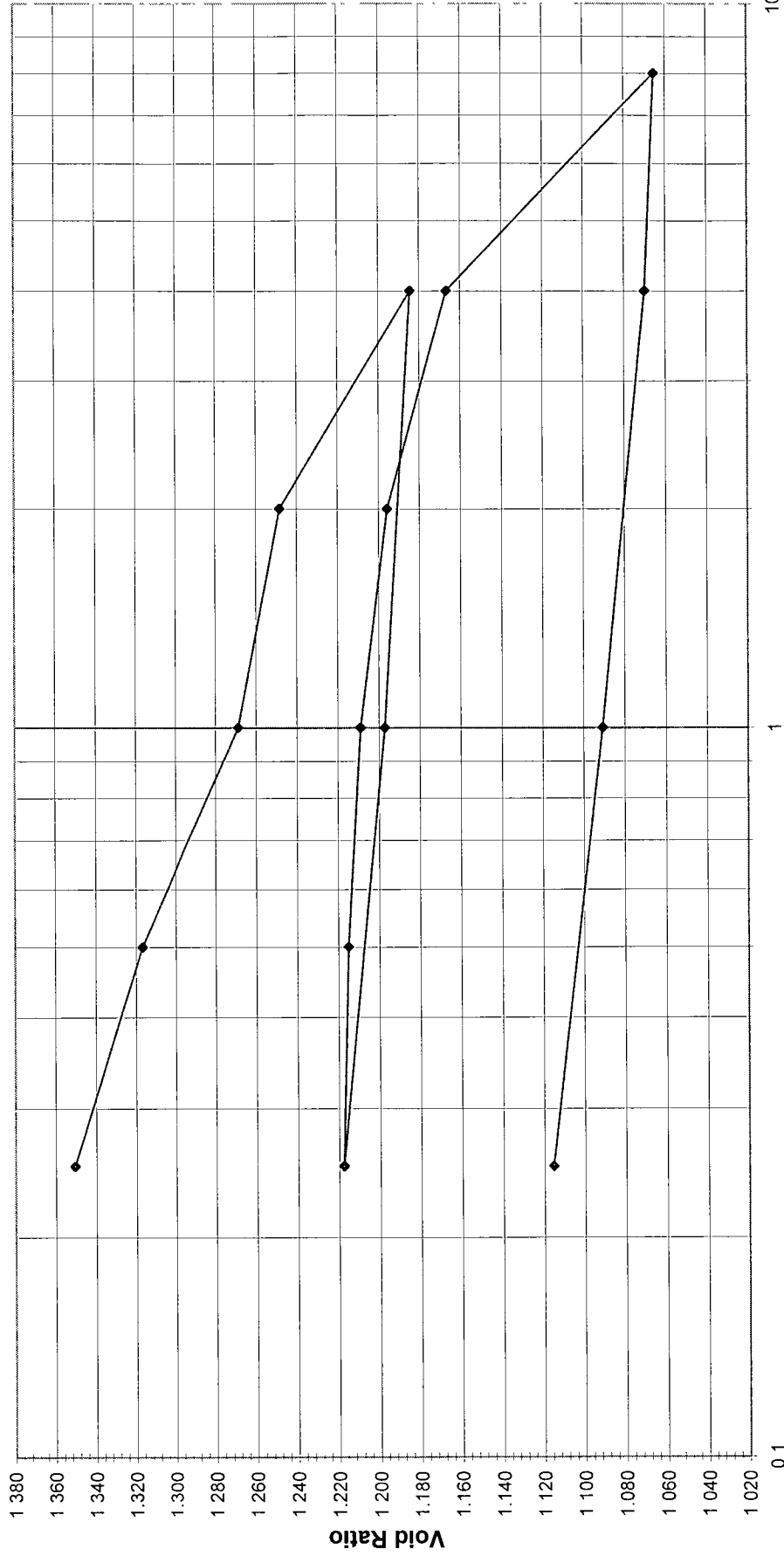


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 / AASHTO T216-03 (SOP-S24)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Reference	GEHR TREATABILITY 204 302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PPF-17
Lab ID	2004-221-03-01	Visual Description	BROWN STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Log P (tsf)

Tested By TM Date 10/12/04 Approved By DJB Date 11/2/04



# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 / AASHTO T216-03 (SOP-S24)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Reference	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PPF-17
Lab ID	2004-221-03-01	Visual Description	BROWN STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED

**Consolidometer No.** 2

**1 Division** = 0.0001 (in)

## Sample Properties

	Initial	Final
<i>Water Content</i>		
Tare Number	40	281
Wt. Tare & VS (gm)	177.67	132.12
Wt. Tare & DS (gm)	154.00	100.38
Wt. Water (gm)	23.67	31.74
Wt. Tare (gm)	101.55	8.35
Wt. DS (gm)	52.45	92.03
Water Content (%)	45.13	34.49

## Sample Parameters

Sample Diameter (in)	2.5	2.5
Sample Height (in)	1	0.888
Sample Volume (cc)	80.44	71.41
Wt. of Wet Sample + Ring (gm)	277.09	267.39
Wt. of Ring (gm)	144.82	144.82
Wt. of Wet Sample (gm)	132.27	122.57
Wet Density (pcf)	102.61	107.11
Wet Density (g/cc)	1.64	1.72
Water Content (%)	45.13	34.49
Wt. of Dry Sample (gm)	91.14	91.14
Dry Density (pcf)	70.70	79.64
Dry Density (g/cc)	1.13	1.28
Void Ratio	1.3830	1.1155
Saturation (%)	88.10	83.48
Specific Gravity	2.70	Assumed

## Test Data Summary

Applied Pressure (tsf)	Final Dial Reading (div)	Machine Deflection (div)	Corrected Reading (div)	Height of Sample (mm)	Volume (cc)	Dry Density (g/cc)	Void Ratio
Seating	0	0	0	25.400	80.440	1.13302	1.38301
0.25	136.6	0.1	136.5	25.053	79.342	1.14870	1.35049
0.5	279.8	1.6	278.2	24.693	78.202	1.16544	1.31672
1	487.8	8.6	479.2	24.183	76.585	1.19005	1.26882
2	588.5	22.8	565.7	23.963	75.889	1.20096	1.24820
4	871.2	37.5	833.7	23.282	73.734	1.23607	1.18435
1	797.2	17.4	779.8	23.419	74.167	1.22885	1.19718
0.25	695.8	1.8	694.0	23.637	74.858	1.21751	1.21764
0.5	708.8	4.0	704.8	23.610	74.771	1.21892	1.21507
1	743.2	12.3	730.9	23.544	74.561	1.22236	1.20885
2	810.1	24.3	785.8	23.404	74.119	1.22965	1.19575
4	946.1	38.2	907.9	23.094	73.137	1.24615	1.16667
8	1385.7	53.2	1332.5	22.015	69.721	1.30721	1.06547
4	1359.6	46.4	1313.2	22.065	69.877	1.30430	1.07008
1	1251.4	24.6	1226.8	22.284	70.572	1.29145	1.09067
0.25	1126.2	3.4	1122.8	22.548	71.408	1.27632	1.11546

Tested By TM Date 10/12/04 Input Checked By GVA Date 11/2/04

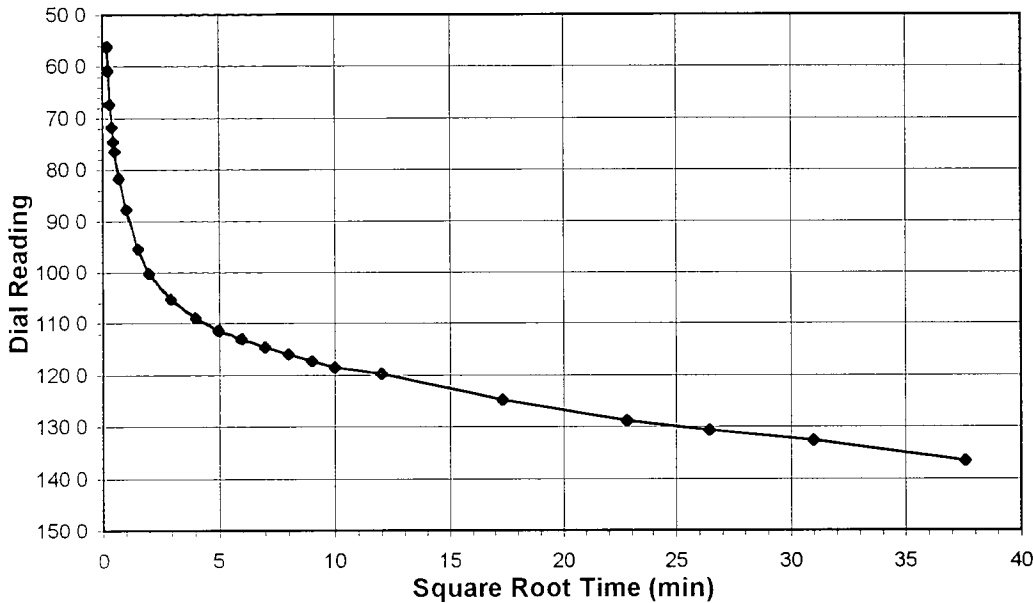


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-90 (SOP-S24A)

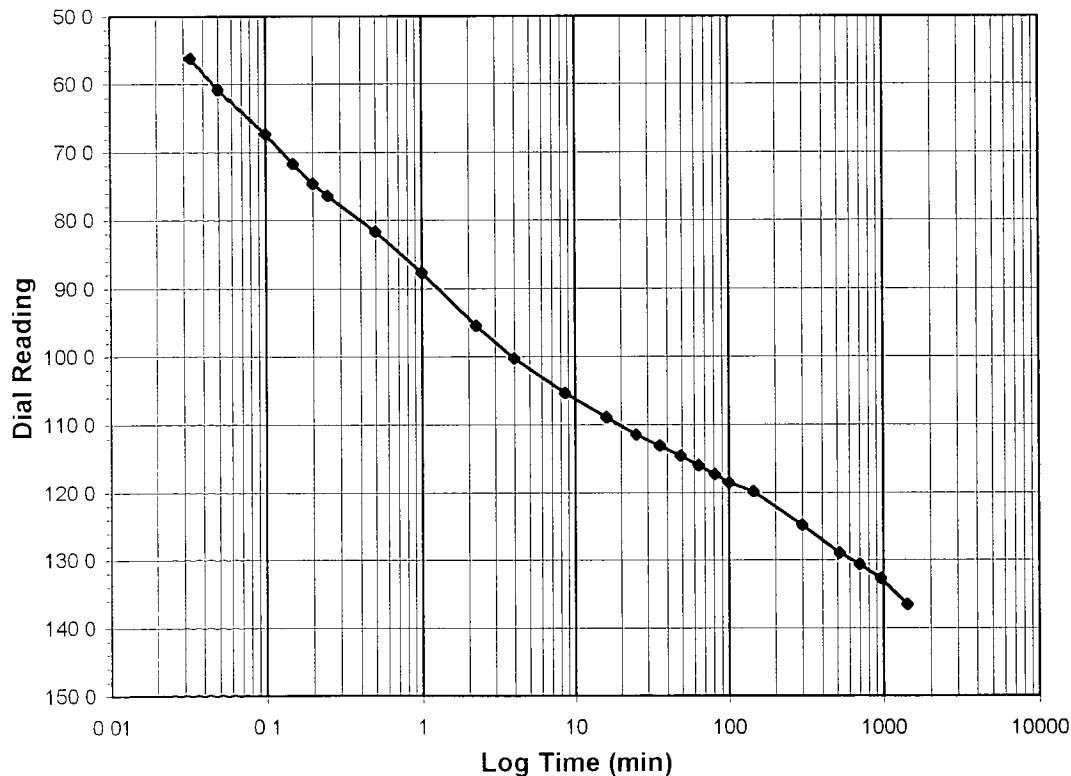
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PFP-17
Lab ID	2004-221-03-01	Visual Description	BROWN STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0-0.25
Final Reading (div)	136.6
Consolidometer No.	2
1 Division (in)	0.0001
Start Date	10/12/04
Start Time	15:06:27

Elapsed Time (min)	Dial Reading (div)
Initial	0.0
0.03	56.2
0.05	60.8
0.10	67.3
0.15	71.7
0.20	74.6
0.25	76.4
0.50	81.7
1.00	87.7
2.25	95.5
4.00	100.3
8.60	105.3
16.00	109.0
25.00	111.5
36.00	113.0
49.00	114.6
64.00	115.9
81.00	117.3
100.00	118.5
144.00	119.8
300.00	124.8
520.00	128.9
700.00	130.7
960.00	132.7
1414.00	136.6



Tested By TM Date 10/12/04 Checked By GU Date 11/2/04



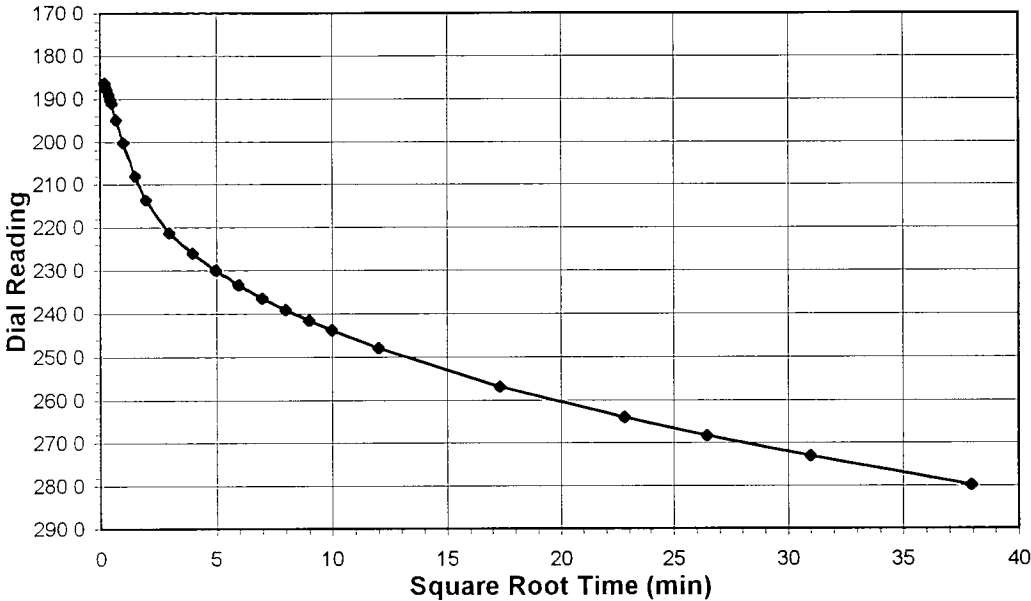


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-90 (SOP-S24A)

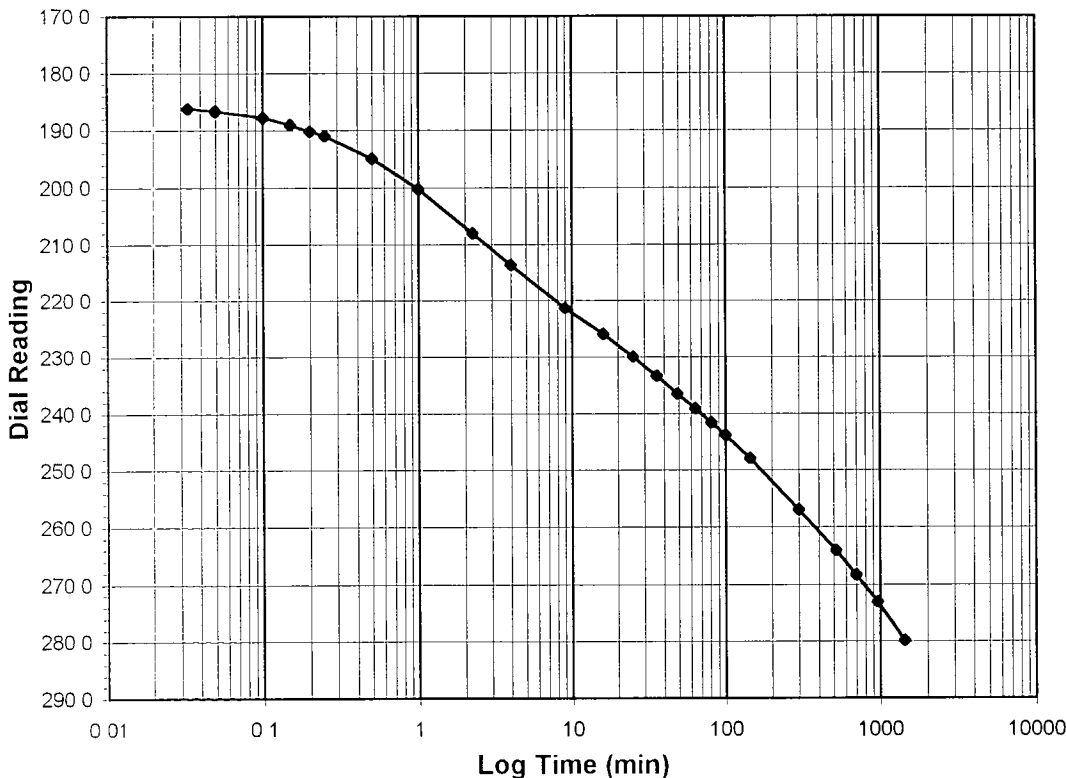
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PFP-17
Lab ID	2004-221-03-01	Visual Description	BROWN STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.25-0.5
Final Reading (div)	279.8
Consolidometer No.	2
1 Division (in)	0.0001
Start Date	10/13/04
Start Time	15:05:06

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>136.6</b>
0.03	186.3
0.05	186.7
0.10	187.8
0.15	189.1
0.20	190.2
0.25	191.0
0.50	194.9
1.00	200.2
2.25	208.0
4.00	213.6
9.02	221.3
16.00	226.0
25.00	230.0
36.00	233.4
49.00	236.5
64.00	239.2
81.00	241.6
100.00	243.8
144.00	248.0
300.00	257.0
520.00	264.1
700.00	268.4
960.00	273.1
1440.00	279.8



Tested By TM Date 10/13/04 Checked By GO Date 11/2/04

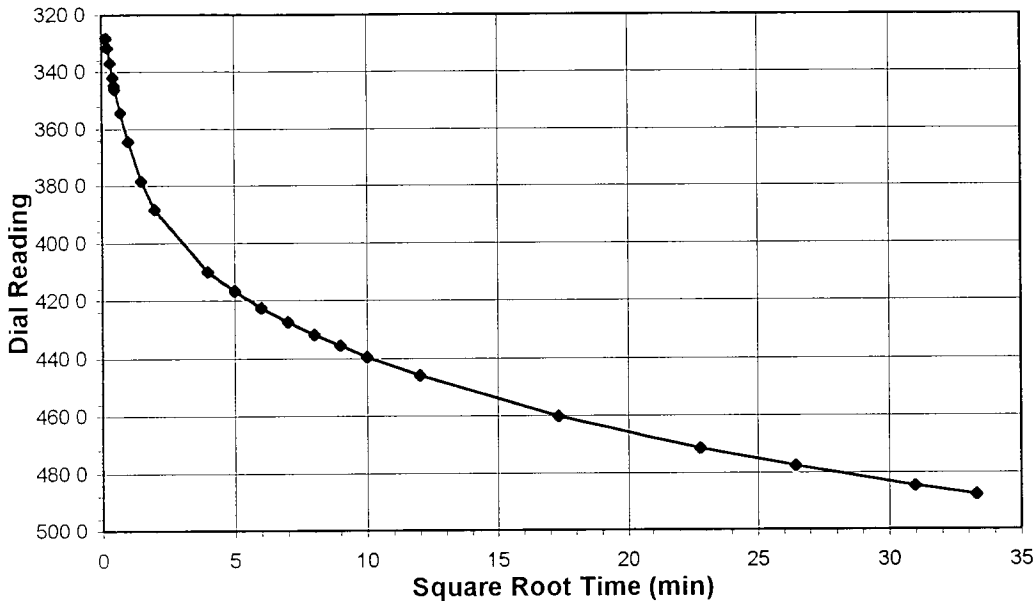


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-90 (SOP-S24A)

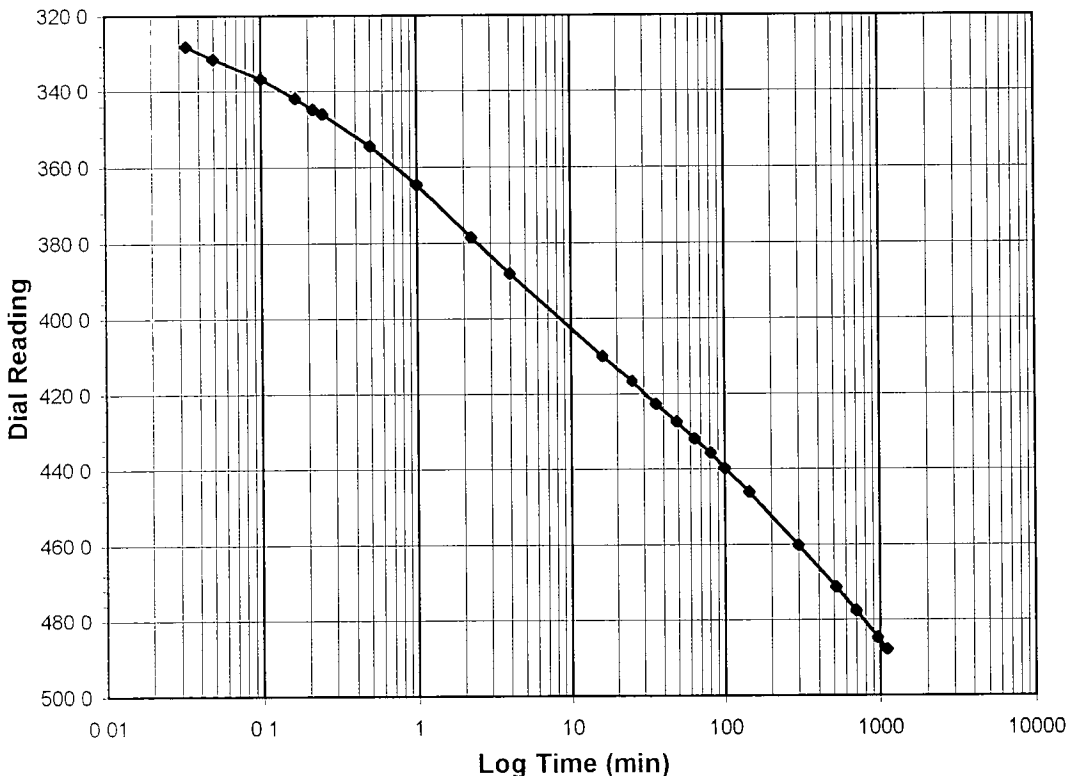
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PFP-17
Lab ID	2004-221-03-01	Visual Description	BROWN STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.5-1.0
Final Reading (div)	487.8
Consolidometer No.	2
1 Division (in)	0.0001
Start Date	10/14/04
Start Time	15:54:28

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>279.8</b>
0.03	328.1
0.05	331.6
0.10	336.8
0.17	341.9
0.22	344.8
0.25	346.0
0.50	354.4
1.00	364.6
2.25	378.5
4.00	388.2
16.00	409.9
25.00	416.7
36.00	422.7
49.00	427.4
64.00	432.0
81.00	435.8
100.00	439.7
144.00	446.1
300.00	460.2
520.00	471.5
700.00	477.6
960.00	484.7
1109.70	487.8



Tested By TM Date 10/14/04 Checked By GU Date 11/2/04

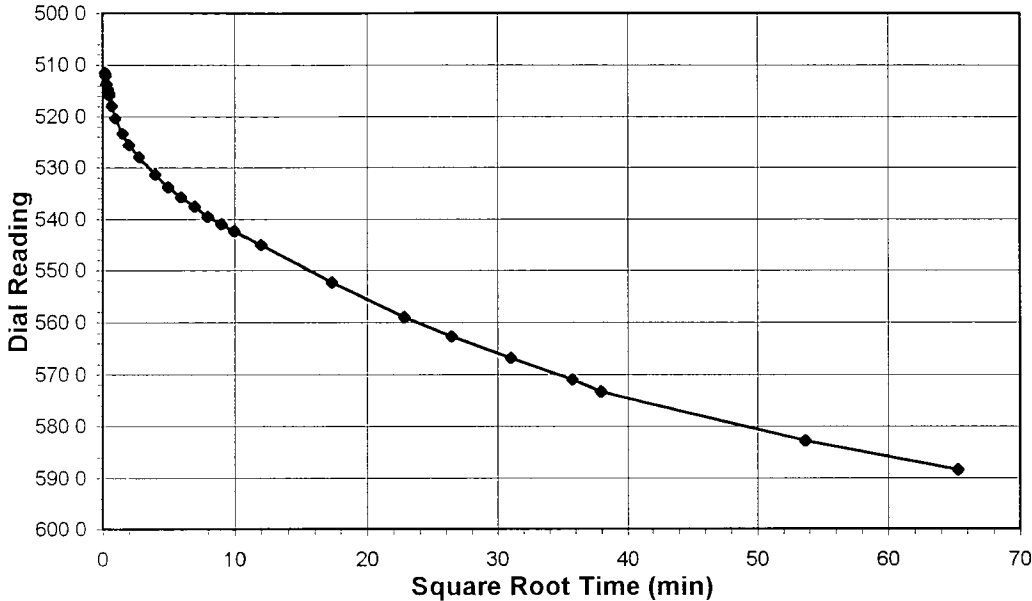


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-90 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-03	Sample No.	PPF-17
Lab ID	2004-221-03-01	Visual Description	BROWN STABILIZED MATERIAL

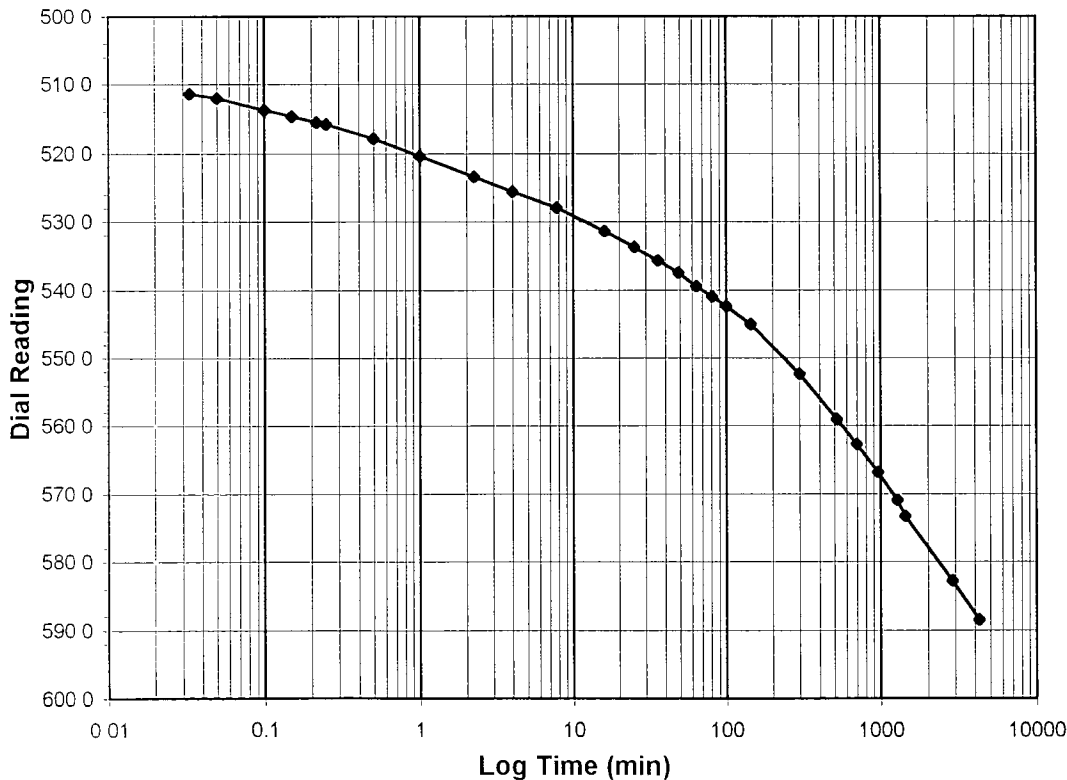
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	1.0-2.0
Final Reading (div)	588.5
Consolidometer No.	2
1 Division (in)	0.0001

Start Date	10/15/04
Start Time	10:43:24

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>487.8</b>
0.03	511.4
0.05	512.0
0.10	513.7
0.15	514.7
0.22	515.5
0.25	515.8
0.50	517.9
1.00	520.4
2.25	523.4
4.00	525.5
7.84	527.9
16.00	531.4
25.00	533.7
36.00	535.7
49.00	537.5
64.00	539.5
81.00	541.0
100.00	542.4
144.00	545.1
300.00	552.3
520.00	559.0
700.00	562.7
960.00	566.8
1277.90	571.0
1440.00	573.3
2880.00	582.8
4263.68	588.5



Tested By *TM* Date *10/15/04* Checked By *GU* Date *11/2/04*

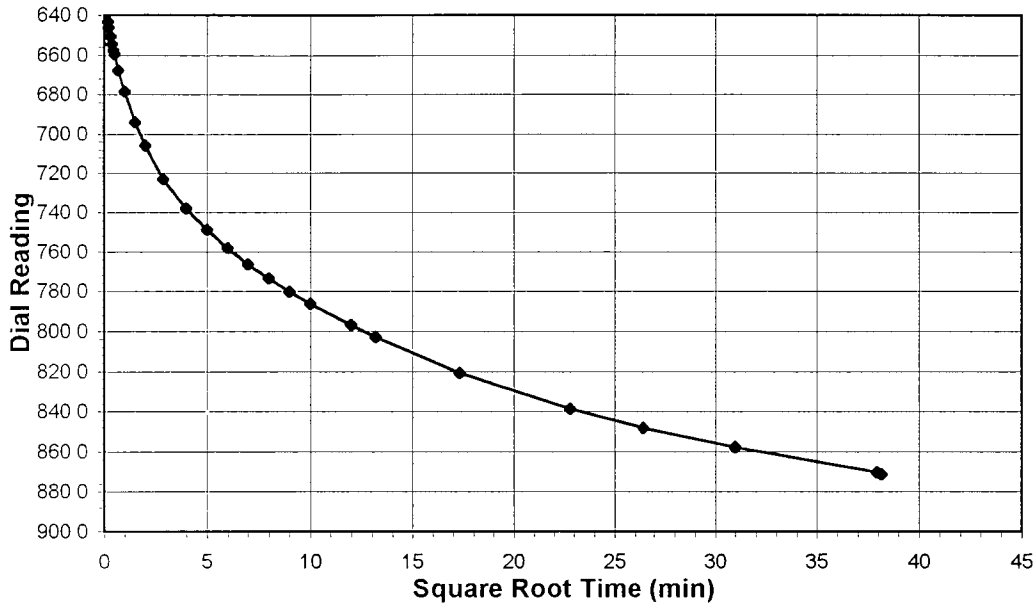


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-90 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PPF-17
Lab ID	2004-221-03-01	Visual Description	BROWN STABILIZED MATERIAL

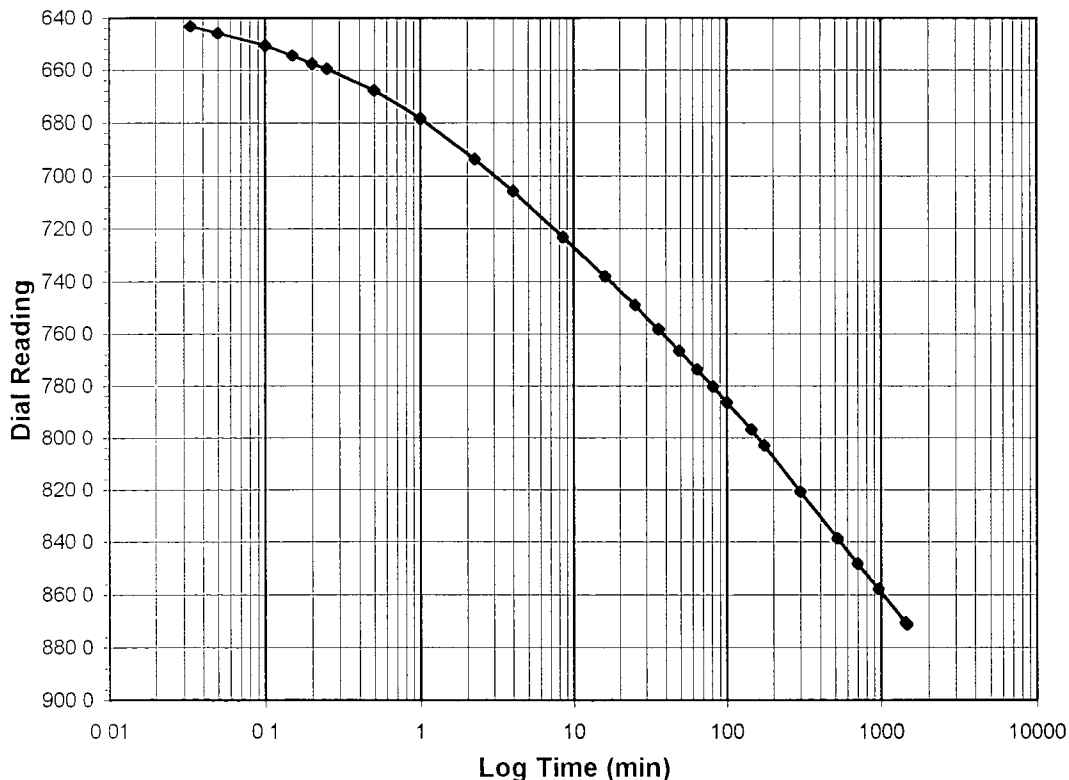
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	2.0-4.0
Final Reading (div)	871.2
Consolidometer No.	2
1 Division (in)	0.0001

Start Date	10/18/04
Start Time	10:00:16

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>588.5</b>
0.03	643.2
0.05	646.0
0.10	650.6
0.15	654.5
0.20	657.5
0.25	659.6
0.50	667.8
1.00	678.3
2.25	693.8
4.00	705.8
8.47	723.0
16.00	738.0
25.00	748.9
36.00	758.2
49.00	766.5
64.02	773.6
81.00	780.2
100.00	786.3
144.00	797.0
174.15	803.0
300.00	820.7
520.00	838.7
700.00	848.3
960.00	857.8
1440.00	870.5
1456.65	871.2



Tested By TM Date 10/18/04 Checked By GU Date 11/2/04

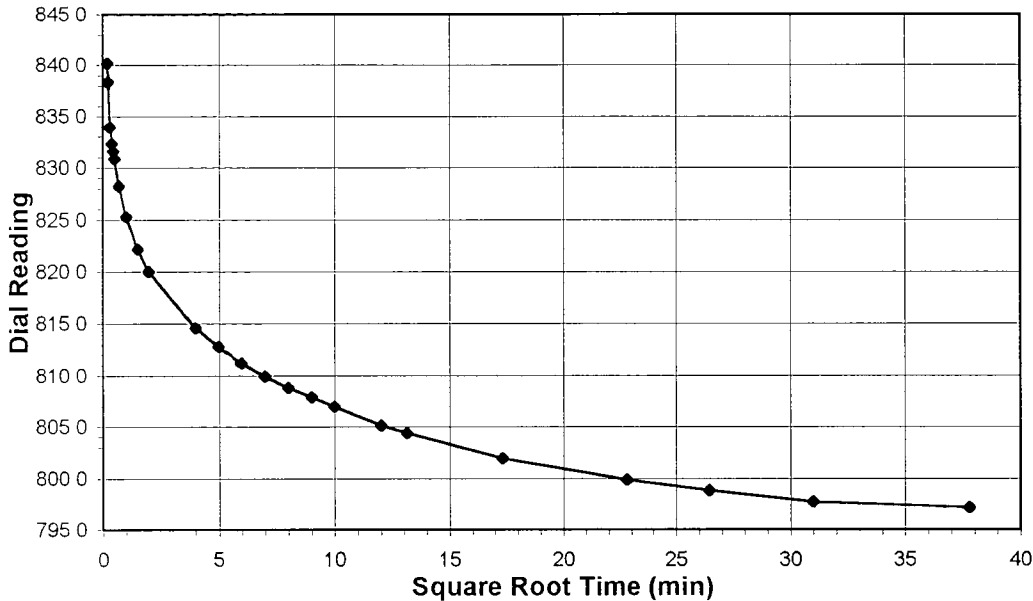


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-90 (SOP-S24A)

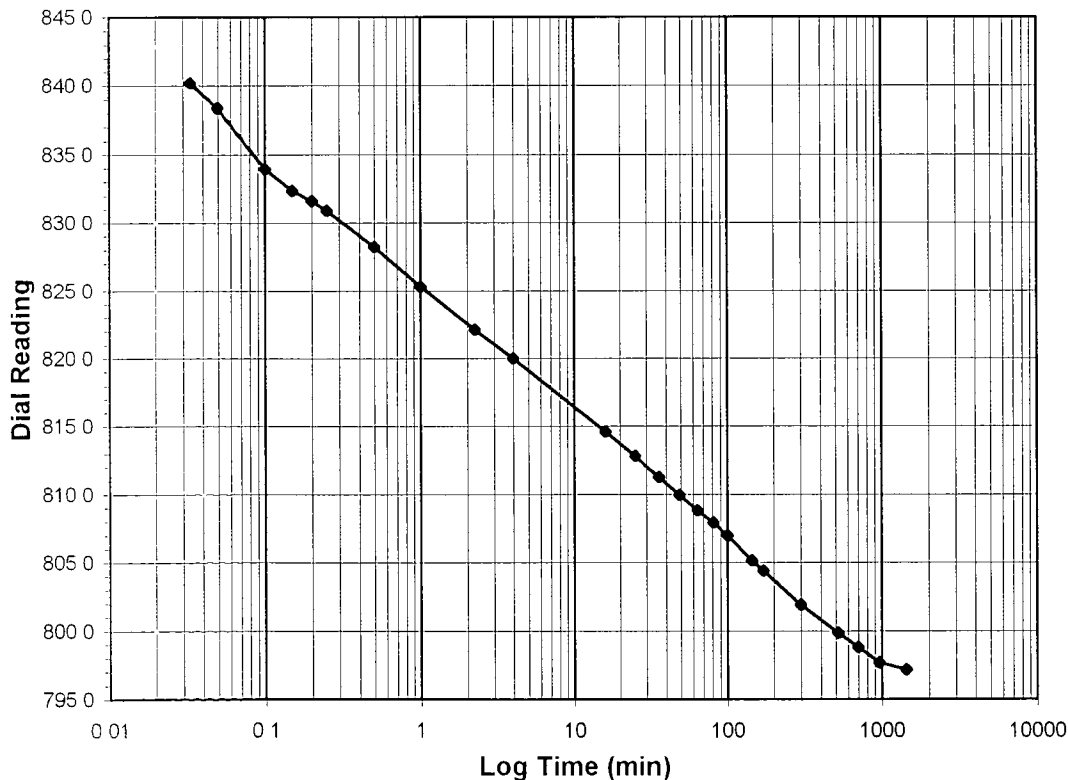
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-03	Sample No.	PFP-17
Lab ID	2004-221-03-01	Visual Description	BROWN STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	4.0-1.0
Final Reading (div)	797.2
Consolidometer No.	2
1 Division (in)	0.0001
Start Date	10/19/04
Start Time	10:29:17

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>871.2</b>
0.03	840.2
0.05	838.4
0.10	834.0
0.15	832.4
0.20	831.6
0.25	830.9
0.50	828.2
1.00	825.3
2.25	822.1
4.00	820.0
16.00	814.6
25.00	812.8
36.00	811.2
49.02	809.9
64.00	808.8
81.00	807.9
100.00	807.0
144.00	805.2
172.15	804.4
300.00	801.9
520.00	799.8
700.00	798.8
960.00	797.7
1428.52	797.2



Tested By TM Date 10/19/04 Checked By GU Date 11/2/04

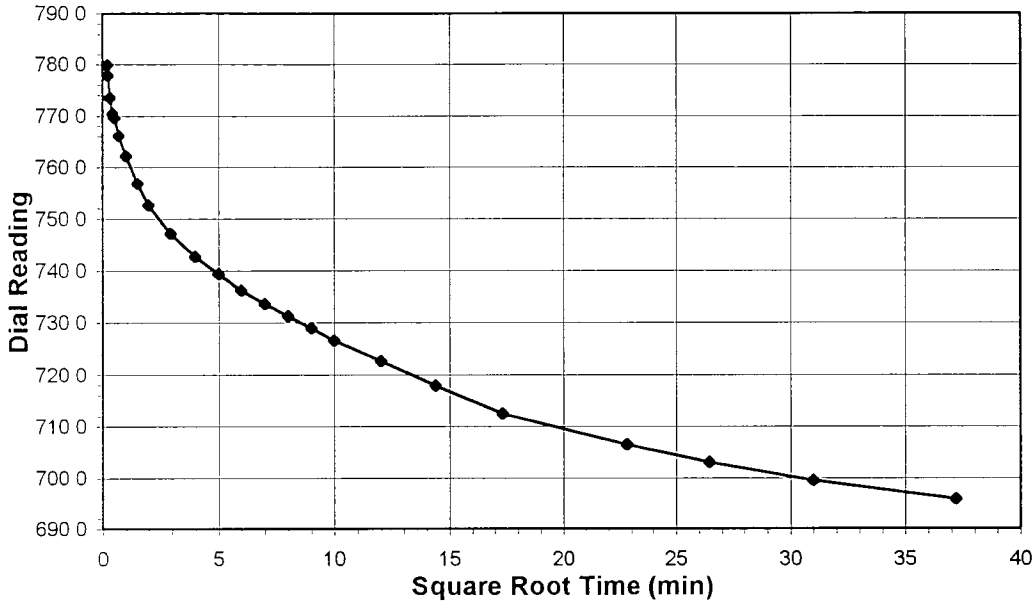


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-90 (SOP-S24A)

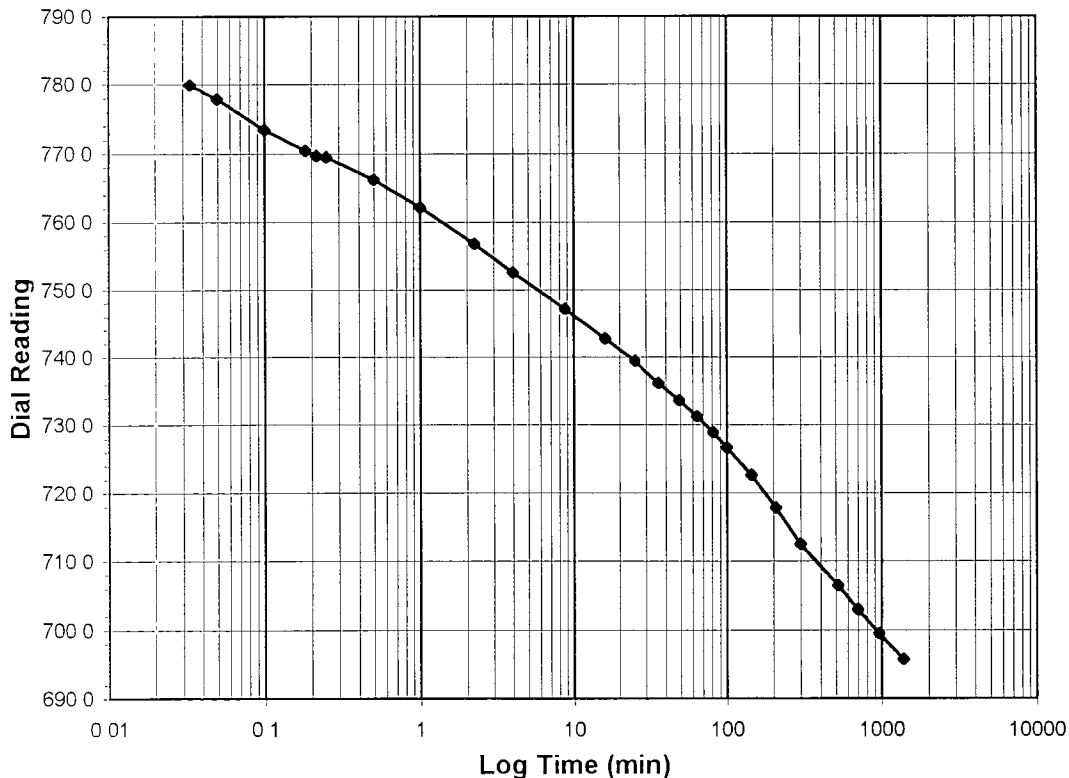
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PPF-17
Lab ID	2004-221-03-01	Visual Description	BROWN STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	1.0-0.25
Final Reading (div)	695.8
Consolidometer No.	2
1 Division (in)	0.0001
Start Date	10/20/04
Start Time	10:23:44

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<i>797.2</i>
0.03	779.9
0.05	777.9
0.10	773.5
0.18	770.5
0.22	769.7
0.25	769.6
0.50	766.2
1.00	762.2
2.25	756.8
4.00	752.6
8.72	747.2
16.00	742.8
25.00	739.4
36.00	736.2
49.00	733.6
64.00	731.3
81.00	728.9
100.00	726.7
144.02	722.6
207.28	717.9
300.00	712.5
520.00	706.5
700.00	703.0
960.00	699.5
1383.03	695.8



Tested By TM Date 10/20/04 Checked By GU Date 11/2/04

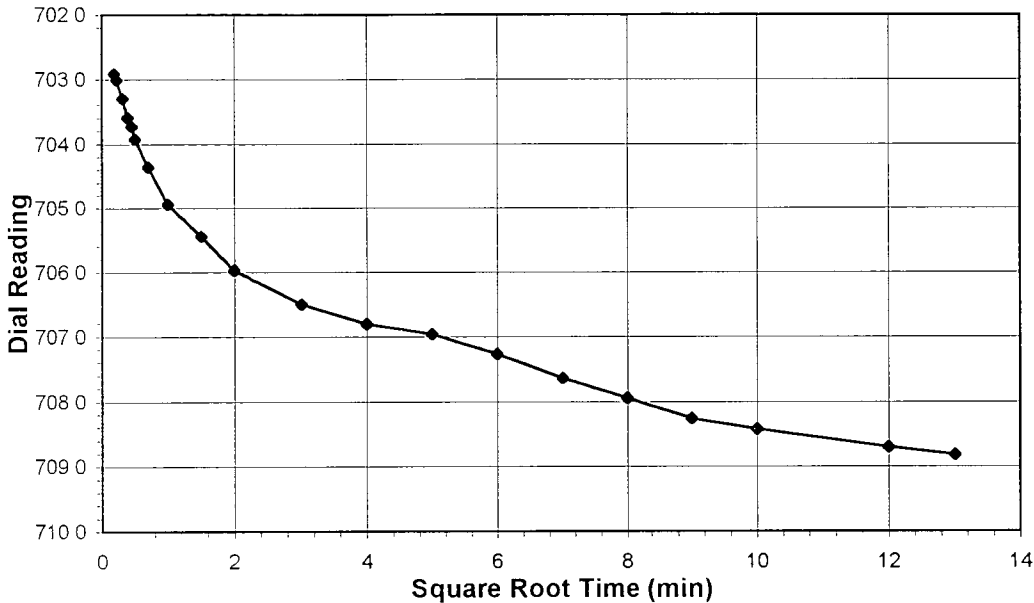


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-90 (SOP-S24A)

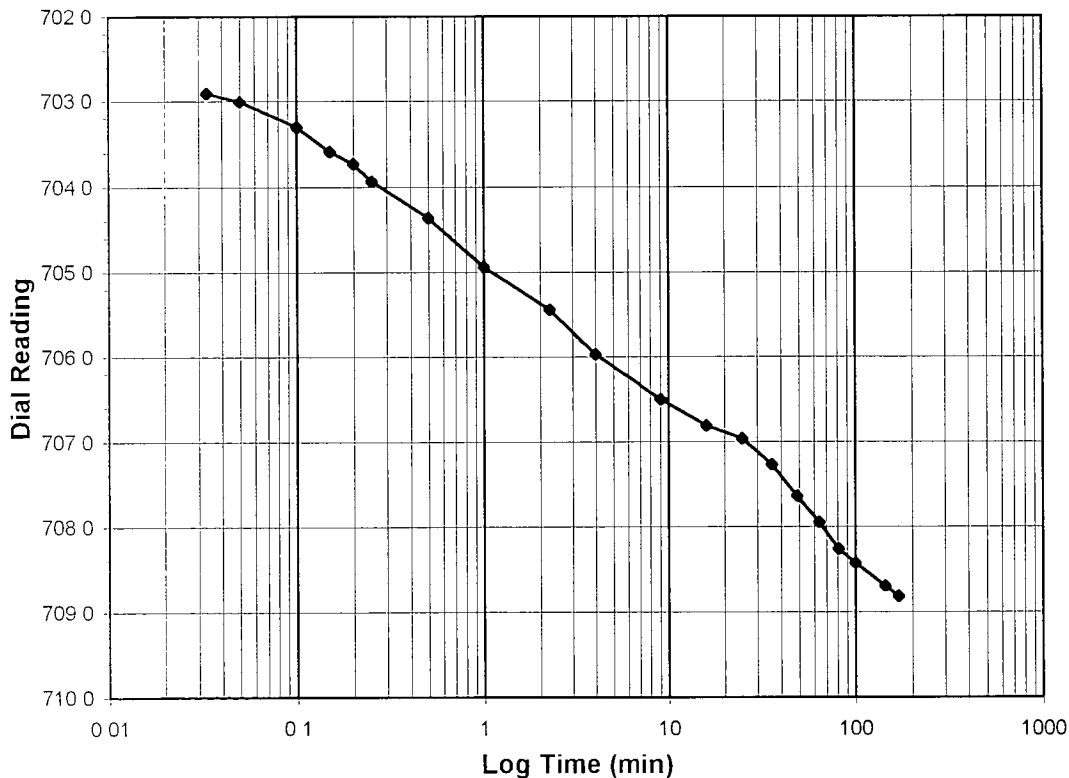
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-03	Sample No.	PFP-17
Lab ID	2004-221-03-01	Visual Description	BROWN STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.25-0.5
Final Reading (div)	708.8
Consolidometer No.	2
1 Division (in)	0.0001
Start Date	10/21/04
Start Time	9:44:27

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>695.8</b>
0.03	702.9
0.05	703.0
0.10	703.3
0.15	703.6
0.20	703.7
0.25	703.9
0.50	704.4
1.00	704.9
2.25	705.4
4.00	706.0
9.13	706.5
16.00	706.8
25.00	707.0
36.00	707.3
49.00	707.6
64.00	708.0
81.00	708.3
100.00	708.4
144.02	708.7
169.32	708.8



Tested By *TM* Date *10/21/04* Checked By *GU* Date *11/2/04*

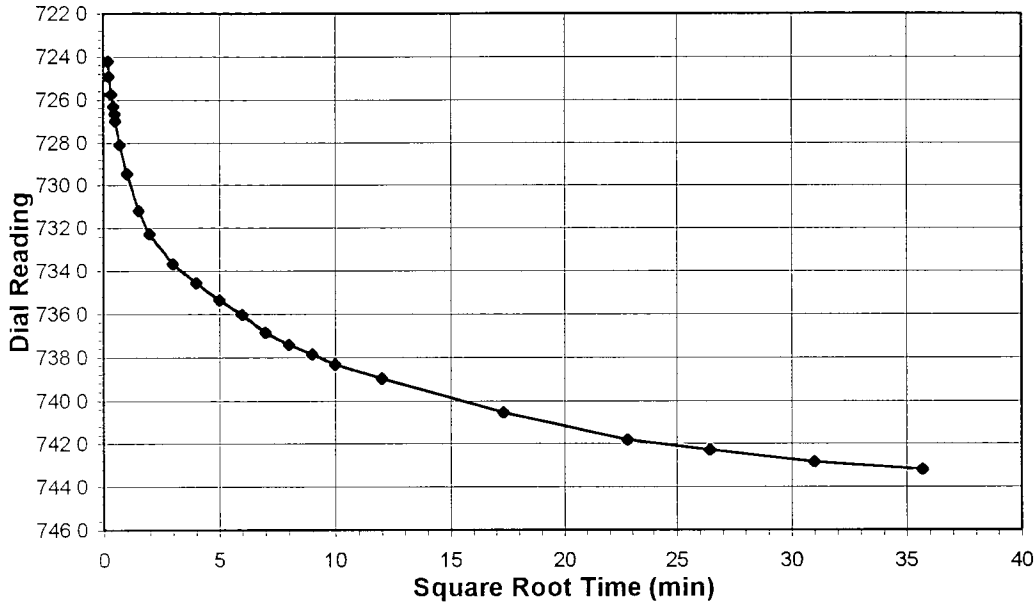


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-90 (SOP-S24A)

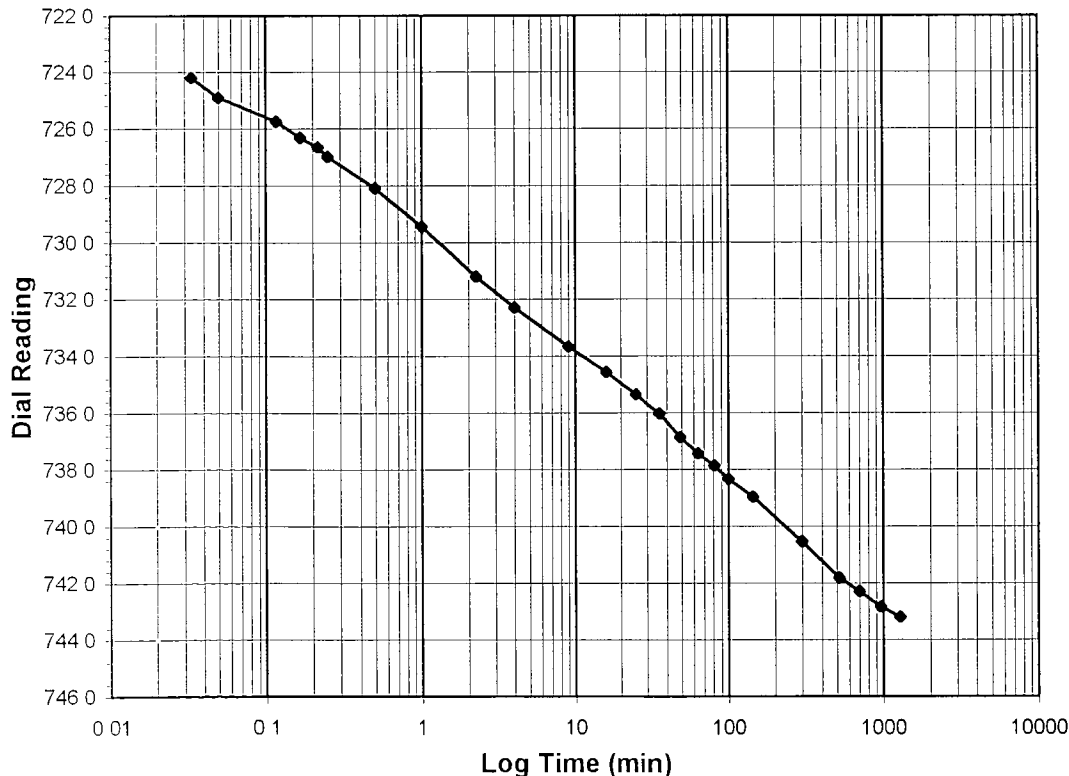
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-03	Sample No.	PPF-17
Lab ID	2004-221-03-01	Visual Description	BROWN STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.5-1.0
Final Reading (div)	743.2
Consolidometer No.	2
1 Division (in)	0.0001
Start Date	10/21/04
Start Time	12:51:20

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>708.8</b>
0.03	724.2
0.05	724.9
0.12	725.7
0.17	726.3
0.22	726.7
0.25	727.0
0.50	728.1
1.00	729.5
2.25	731.2
4.00	732.3
9.02	733.7
16.00	734.6
25.00	735.4
36.00	736.0
49.00	736.9
64.00	737.4
81.00	737.9
100.00	738.3
144.00	739.0
300.00	740.5
520.00	741.8
700.00	742.3
960.00	742.9
1274.05	743.2



Tested By *TM* Date *10/21/04* Checked By *GU* Date *11/2/04*



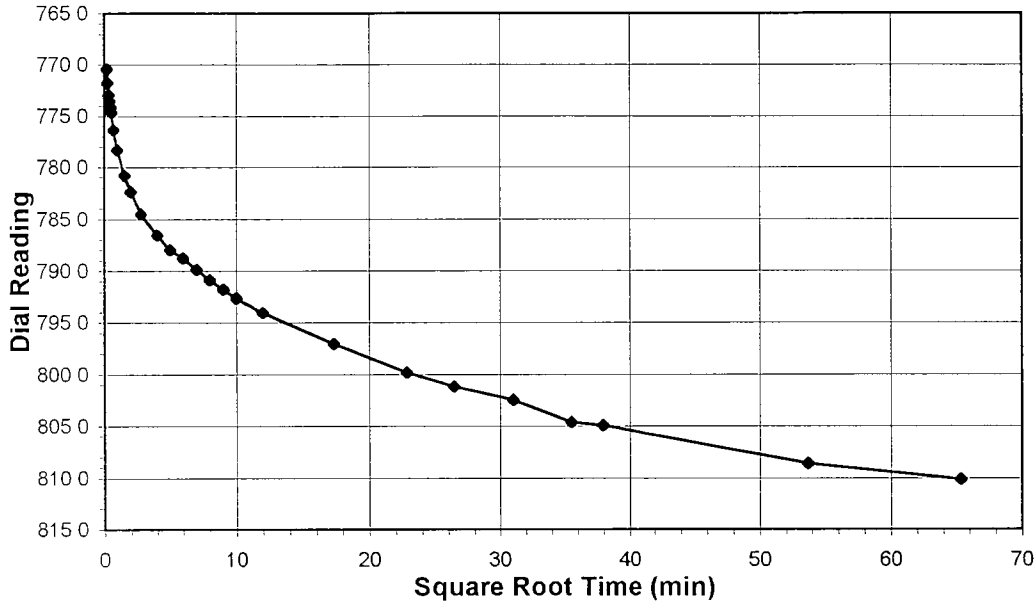


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-90 (SOP-S24A)

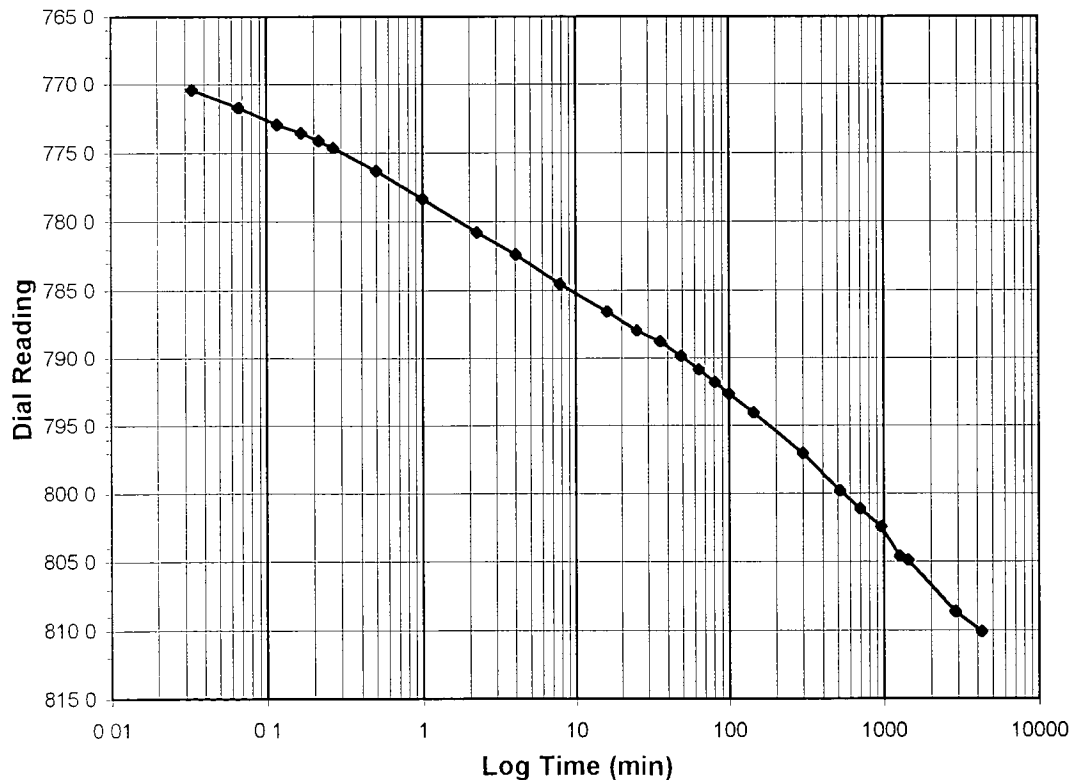
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PPF-17
Lab ID	2004-221-03-01	Visual Description	BROWN STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	1.0-2.0
Final Reading (div)	810.1
Consolidometer No.	2
1 Division (in)	0.0001
Start Date	10/22/04
Start Time	10:14:47

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>743.2</b>
0.03	770.4
0.07	771.7
0.12	772.9
0.17	773.5
0.22	774.1
0.27	774.6
0.50	776.3
1.00	778.3
2.25	780.8
4.02	782.4
7.88	784.6
16.00	786.6
25.00	788.0
36.00	788.8
49.02	789.9
64.00	790.8
81.00	791.8
100.00	792.6
144.00	794.1
300.00	797.1
520.00	799.8
700.00	801.2
960.00	802.5
1262.27	804.6
1440.00	804.9
2880.00	808.6
4267.37	810.1



Tested By TM Date 10/22/04 Checked By GJ Date 11/2/04

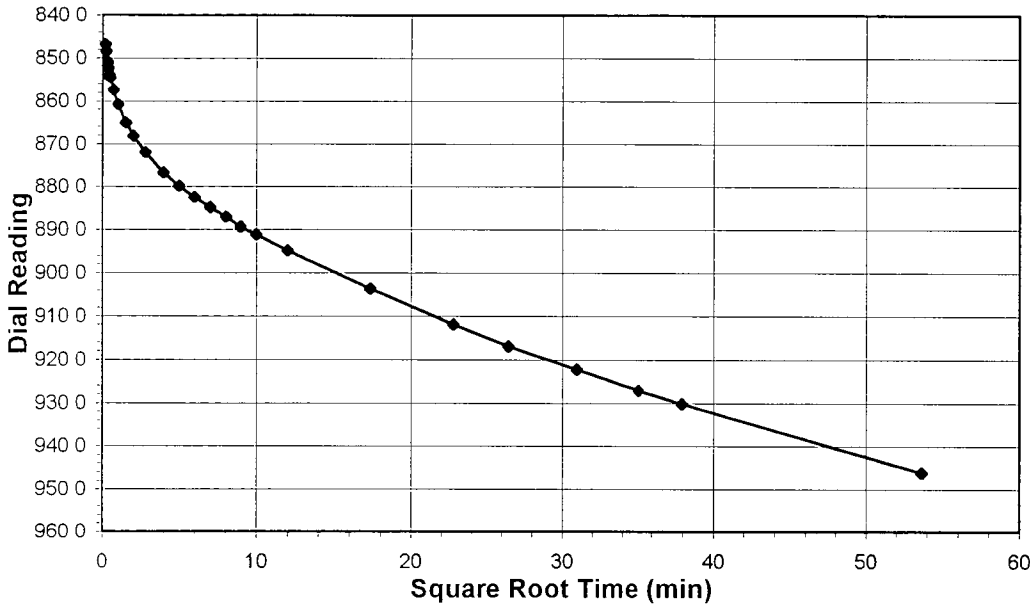


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-90 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-03	Sample No.	PFP-17
Lab ID	2004-221-03-01	Visual Description	BROWN STABILIZED MATERIAL

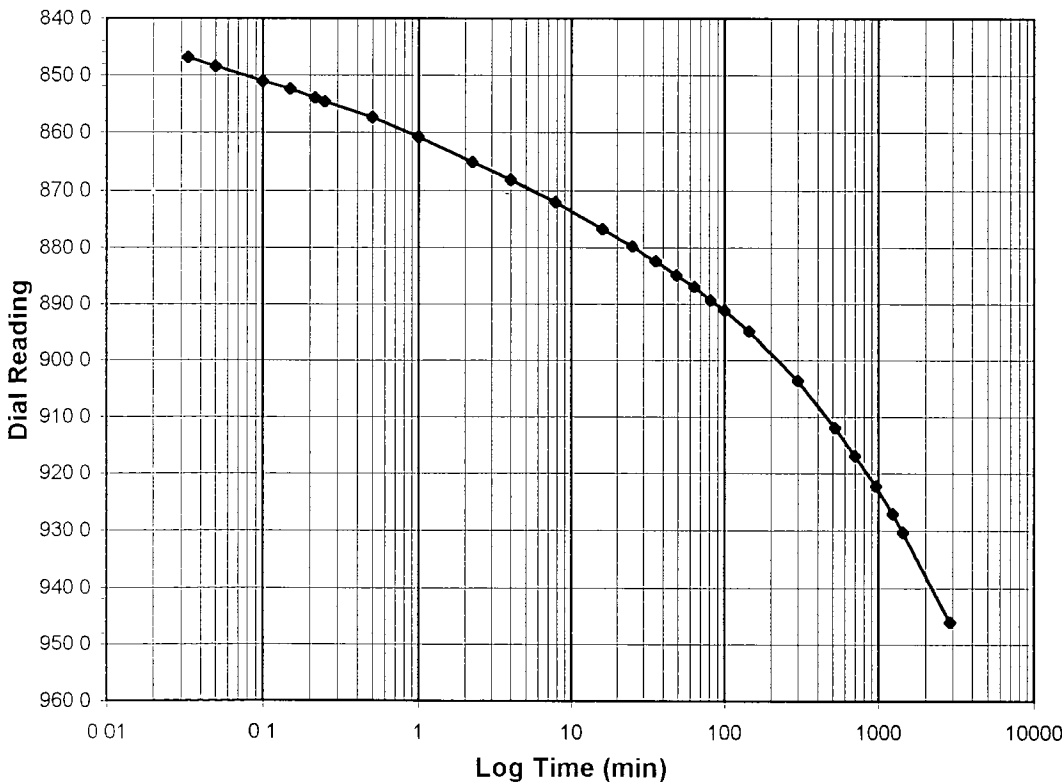
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	2.0-4.0
Final Reading (div)	946.1
Consolidometer No.	2
1 Division (in)	0.0001

Start Date	10/25/04
Start Time	9:30:45

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>810.1</b>
0.03	846.8
0.05	848.5
0.10	851.0
0.15	852.4
0.22	854.0
0.25	854.6
0.50	857.4
1.00	860.7
2.25	865.1
4.00	868.2
7.89	872.0
16.00	876.7
25.00	879.8
36.00	882.4
49.00	884.8
64.00	887.0
81.00	889.3
100.00	891.1
144.00	894.8
300.00	903.6
520.00	911.9
700.00	917.0
960.00	922.2
1233.12	927.1
1440.00	930.3
2880.00	946.1



Tested By TM Date 10/25/04 Checked By GU Date 11/2/04

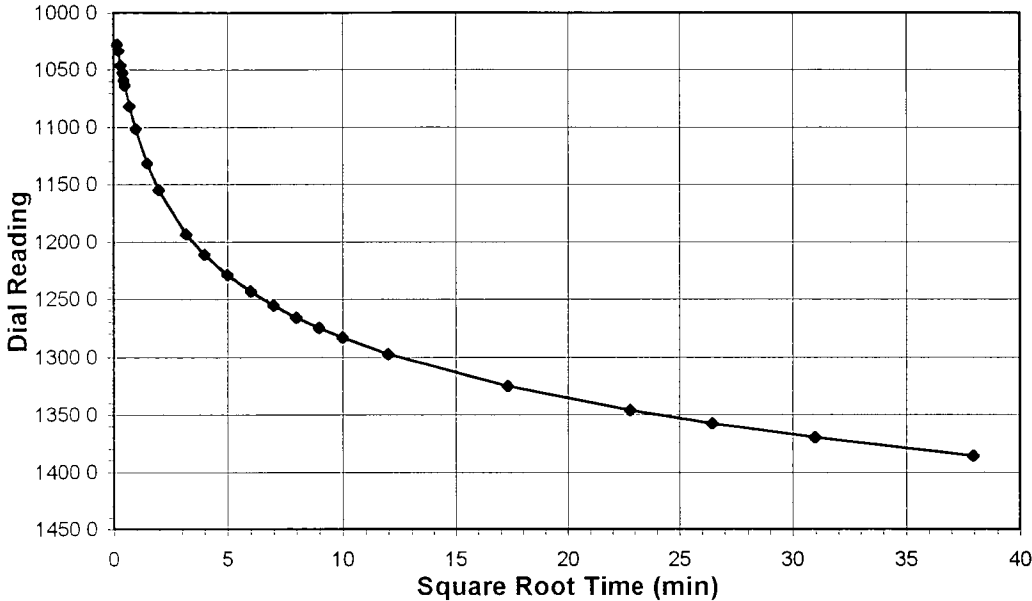


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-90 (SOP-S24A)

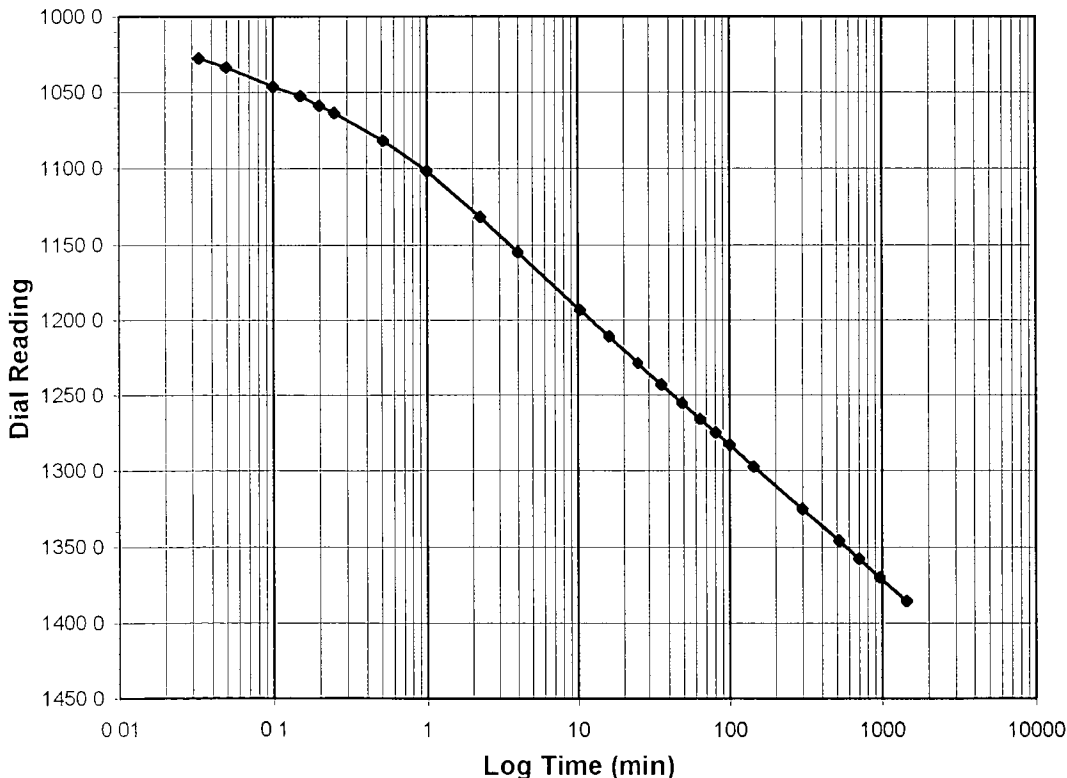
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-03	Sample No.	PPF-17
Lab ID	2004-221-03-01	Visual Description	BROWN STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	4.0-8.0
Final Reading (div)	1385.7
Consolidometer No.	2
1 Division (in)	0.0001
Start Date	10/27/04
Start Time	11:03:55

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>946.1</b>
0.03	1027.5
0.05	1033.4
0.10	1046.0
0.15	1052.6
0.20	1059.0
0.25	1063.5
0.52	1081.7
1.00	1101.6
2.25	1131.6
4.00	1154.7
10.27	1193.5
16.00	1211.1
25.00	1228.9
36.00	1243.4
49.00	1255.2
64.00	1265.9
81.00	1274.8
100.00	1282.9
144.00	1297.2
300.00	1325.3
520.00	1346.1
700.00	1357.9
960.00	1369.9
1440.00	1385.7



Tested By *TM* Date *10/27/04* Checked By *GU* Date *11/2/04*

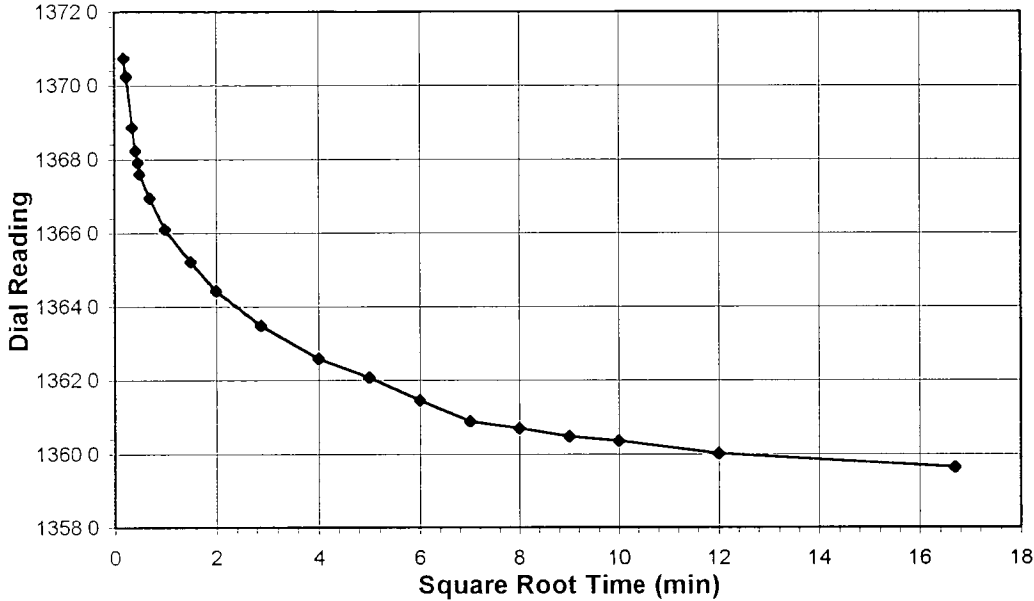


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-90 (SOP-S24A)

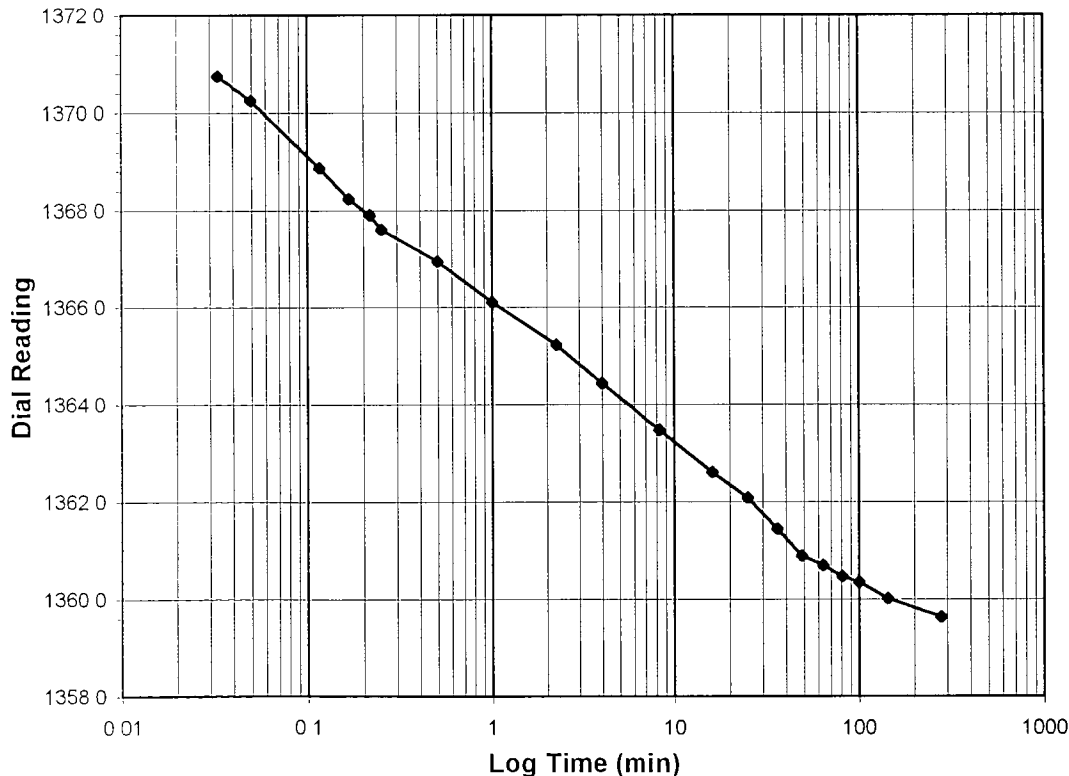
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PPF-17
Lab ID	2004-221-03-01	Visual Description	BROWN STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	8.0-4.0
Final Reading (div)	1359.6
Consolidometer No.	2
1 Division (in)	0.0001
Start Date	10/28/04
Start Time	11:26:32

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>1385.7</b>
0.03	1370.8
0.05	1370.3
0.12	1368.9
0.17	1368.2
0.22	1367.9
0.25	1367.6
0.50	1367.0
1.00	1366.1
2.25	1365.2
4.00	1364.4
8.33	1363.5
16.00	1362.6
25.00	1362.1
36.00	1361.5
49.00	1360.9
64.00	1360.7
81.00	1360.5
100.00	1360.4
144.00	1360.0
278.82	1359.6



Tested By *TM* Date *10/28/04* Checked By *GU* Date *11/2/04*

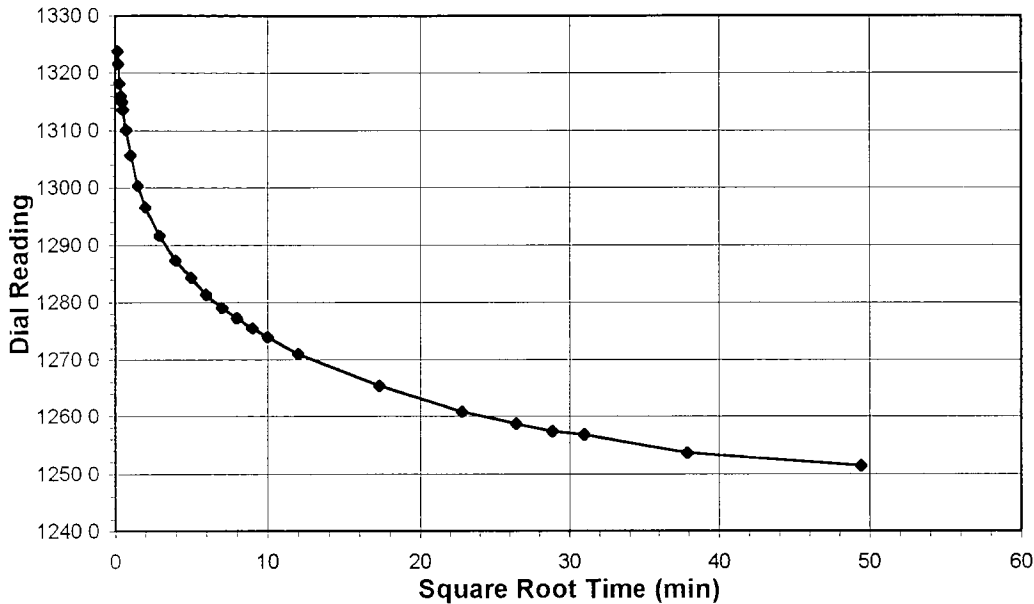


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-90 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PPF-17
Lab ID	2004-221-03-01	Visual Description	BROWN STABILIZED MATERIAL

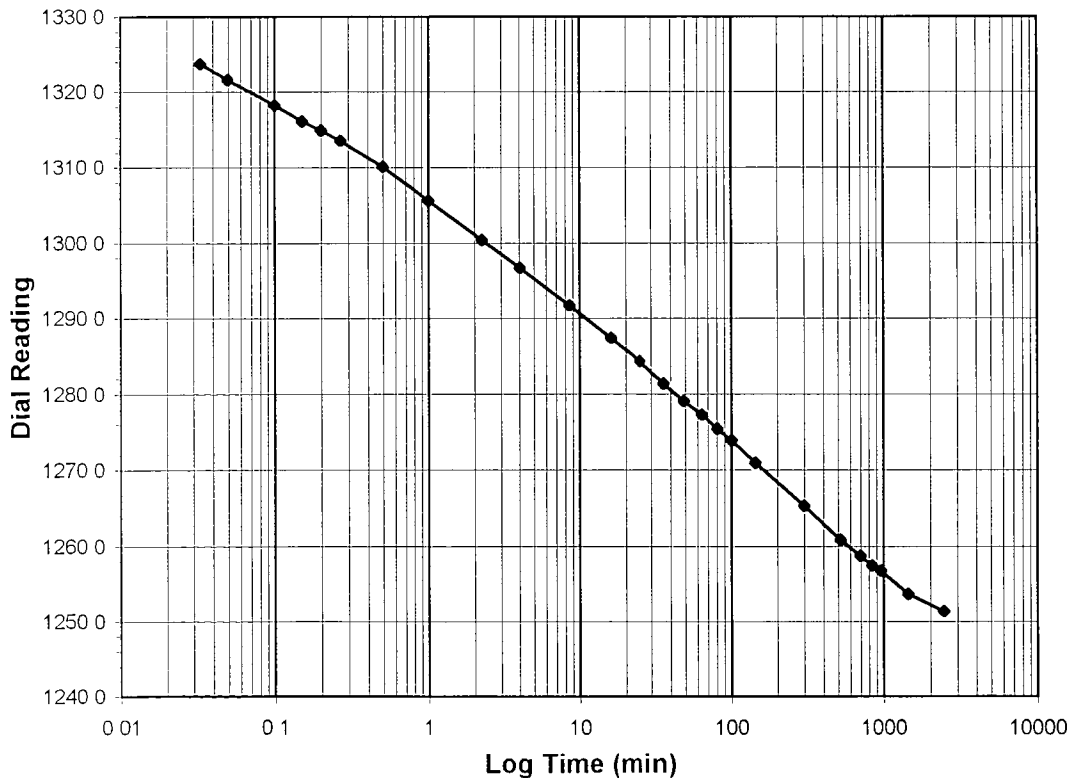
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	4.0-1.0
Final Reading (div)	1251.4
Consolidometer No.	2
1 Division (in)	0.0001

Start Date	10/28/04
Start Time	16:11:29

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>1359.6</b>
0.03	1323.8
0.05	1321.6
0.10	1318.2
0.15	1316.1
0.20	1314.9
0.27	1313.6
0.50	1310.1
1.00	1305.7
2.25	1300.4
4.02	1296.6
8.58	1291.7
16.00	1287.3
25.00	1284.4
36.00	1281.4
49.00	1279.1
64.00	1277.3
81.00	1275.4
100.02	1273.9
144.00	1271.0
300.00	1265.3
520.00	1260.8
700.00	1258.7
834.30	1257.4
960.00	1256.8
1440.00	1253.6
2446.90	1251.4



Tested By TM Date 10/28/04 Checked By GU Date 11/2/04

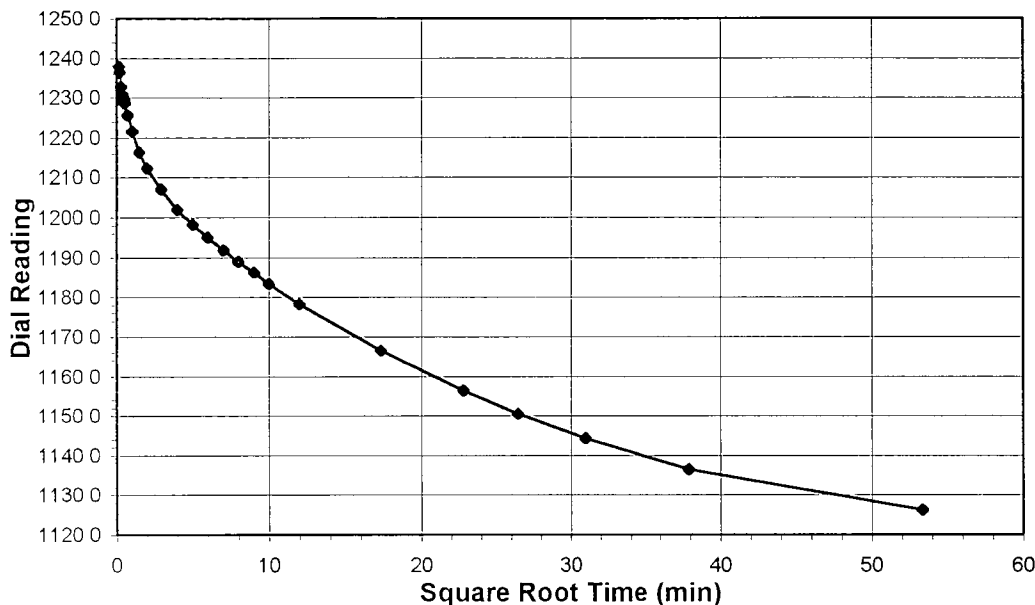


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-90 (SOP-S24A)

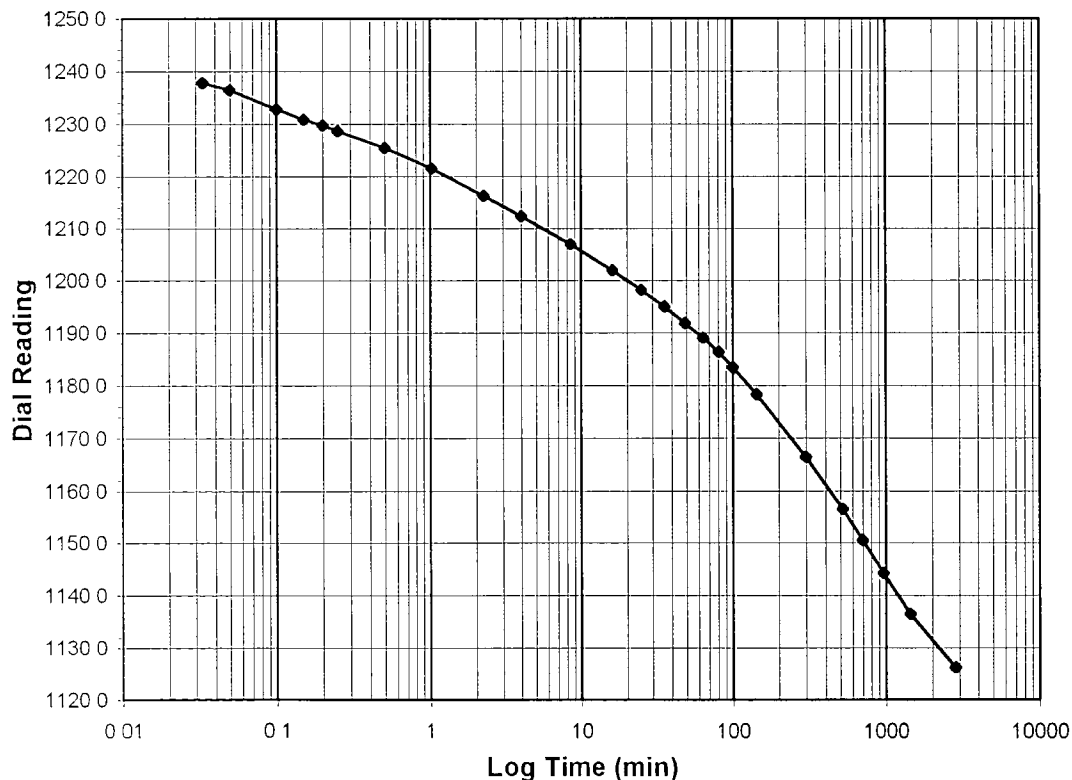
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-03	Sample No.	PFP-17
Lab ID	2004-221-03-01	Visual Description	BROWN STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	1.0-0.25
Final Reading (div)	1126.2
Consolidometer No.	2
1 Division (in)	0.0001
Start Date	10/30/04
Start Time	9:12:51

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>1251.4</b>
0.03	1237.8
0.05	1236.5
0.10	1232.8
0.15	1230.8
0.20	1229.7
0.25	1228.7
0.50	1225.5
1.02	1221.6
2.25	1216.3
4.00	1212.4
8.52	1207.0
16.00	1202.0
25.02	1198.2
36.00	1195.0
49.00	1191.8
64.00	1189.1
81.00	1186.3
100.00	1183.4
144.00	1178.2
300.00	1166.5
520.00	1156.5
700.00	1150.6
960.00	1144.3
1440.00	1136.5
2850.07	1126.2



Tested By TM Date 10/30/04 Checked By (G) Date 11/2/04

**UNCONFINED COMPRESSIVE STRENGTH**  
ASTM D2166-00 (SOP S-30)



Client BLASLAND, BOUCK, AND LEE  
 Client Reference GEHR TREATABILITY 204.302  
 Project No. 2004-221-03  
 Lab ID 2004-221-03-01

Boring No. NA  
 Depth (ft.) NA  
 Sample No. PFP-17  
 Visual BROWN STABILIZED SLUDGE

INITIAL SAMPLE DIMENSIONS			
Length 1(in)	3.668	Top Dia. (in)	2.019
Length 2(in)	3.682	Mid. Dia. (in)	2.027
Length 3(in)	3.684	Bot. Dia. (in)	2.006
Avg.Length(in)	3.678	Area (in.^2)	3.196

WATER CONTENT AFTER TEST	
Tare No.	633
Wt. Tare + WS.(gms)	159.95
Wt Tare + DS (gms)	142.07
Wt of Tare(gms)	100.77
% Moisture	43.29

UNIT WEIGHT			
Wt. Tube & WS.(gms.)	310.3	Sample Volume(cc.)	192.6
Wt. Of Tube(gms.)	0.0	Unit Wet Wt (gms/cc)	1.61
Wt. Of WS.(gms.)	310.34	Unit Wet Wt (pcf.)	100.52
Diameter (in.)	2.02	Moisture Content, %	43.29
Length (in.)	3.68	Unit Dry Wt.(pcf.)	70.15
Length (cm)	9.34		

DEFORMATION (in)	LOAD (lbs)	ELAPSED TIME (min.)	STRAIN (%)	STRESS (psi)
0.000	0.2	0.00	0.00	0.00
0.002	1.3	0.07	0.04	0.34
0.004	2.7	0.13	0.10	0.78
0.007	4.6	0.27	0.20	1.37
0.013	7.6	0.45	0.35	2.29
0.020	11.2	0.70	0.55	3.40
0.030	15.0	1.02	0.81	4.59
0.037	17.4	1.27	1.01	5.33
0.048	20.4	1.63	1.30	6.22
0.063	24.1	2.13	1.70	7.34
0.077	27.9	2.63	2.10	8.48
0.099	32.7	3.38	2.70	9.89
0.114	36.1	3.88	3.10	10.86
0.144	42.5	4.88	3.91	12.71
0.173	48.0	5.90	4.70	14.23
0.203	52.6	6.92	5.52	15.49
0.221	55.3	7.53	6.02	16.18
0.258	57.9	8.78	7.01	16.78
0.277	57.1	9.42	7.52	16.46
0.313	44.4	10.67	8.51	12.65
0.350	27.7	11.92	9.51	7.79

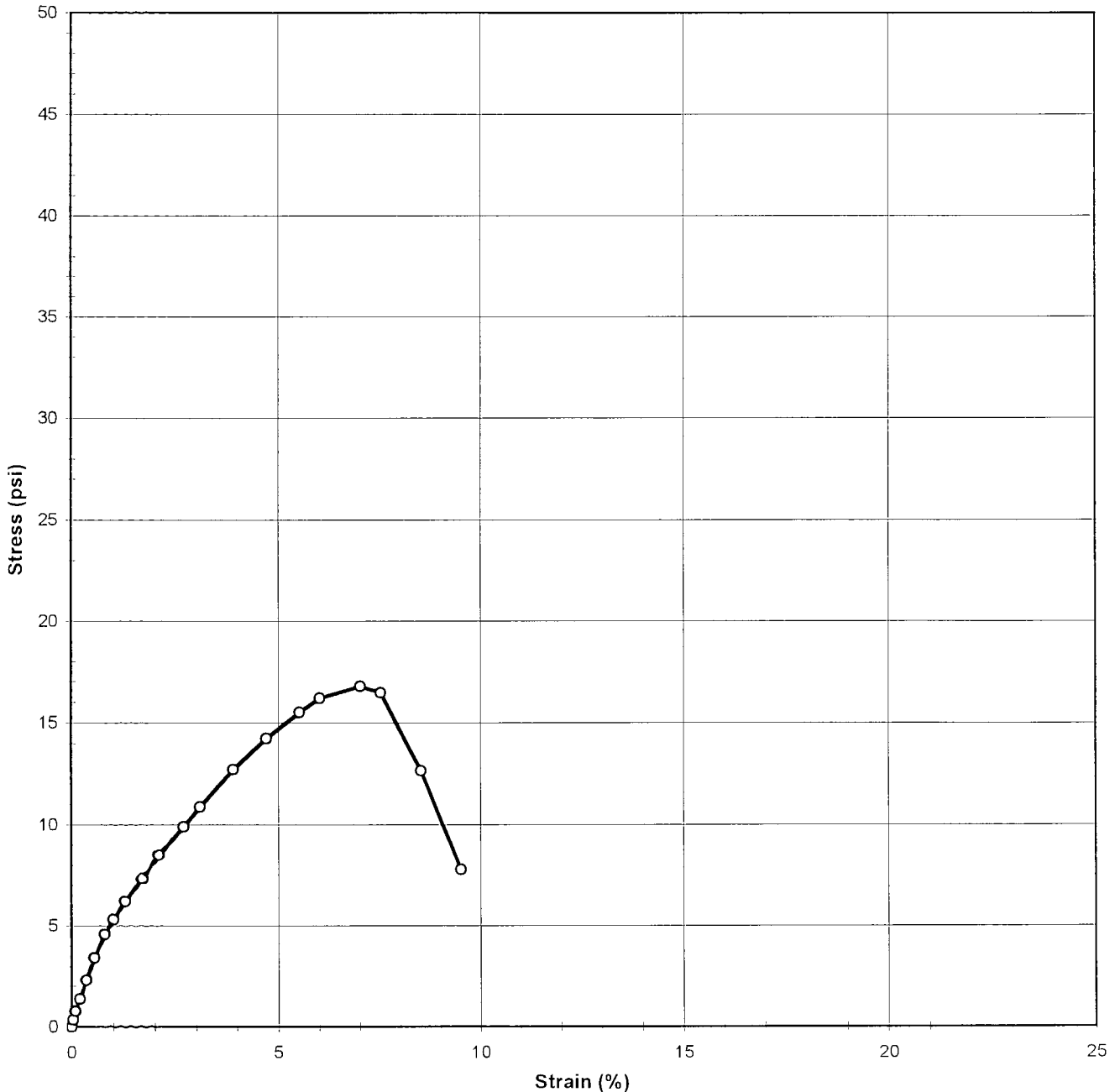
Tested By JCM

Date 09/17/04 Input Checked By *BC*

Date *9.21.04*

**UNCONFINED COMPRESSIVE STRENGTH**  
ASTM D2166-00 (SOP S-30)

Client	BLASLAND, BOUCK, AND LEE	Boring No.	NA
Client Reference	GEHR TREATABILITY 204.302	Depth (ft.)	NA
Project No.	2004-221-03	Sample No.	PPF-17
Lab ID	2004-221-03-01	Visual	BROWN STABILIZED SLUDGE



Tested By JCM

Date 09/17/04 Approved By

DB

Date 9/21/04



**UNCONFINED COMPRESSIVE STRENGTH**  
ASTM D2166-00 (SOP S-30)



Client: BLASLAND, BOUCK, AND LEE  
 Client Reference: GEHR TREATABILITY 204.302  
 Project No.: 2004-221-03  
 Lab ID: 2004-221-03-02

Boring No.: NA  
 Depth (ft.): NA  
 Sample No.: PFP-33  
 Visual: BROWN STABILIZED SLUDGE

INITIAL SAMPLE DIMENSIONS			
Length 1(in)	3.716	Top Dia. (in)	1.985
Length 2(in)	3.769	Mid. Dia. (in)	1.909
Length 3(in)	3.732	Bot. Dia. (in)	1.934
Avg.Length(in)	3.739	Area (in.^2)	2.964

WATER CONTENT AFTER TEST	
Tare No.	658
Wt Tare + WS.(gms)	177.06
Wt. Tare + DS.(gms)	149.30
Wt of Tare(gms)	97.29
% Moisture	53.37

UNIT WEIGHT			
Wt. Tube & WS.(gms.)	316.4	Sample Volume(cc)	181.6
Wt. Of Tube(gms.)	0.0	Unit Wet Wt.(gms/cc)	1.74
Wt. Of WS.(gms.)	316.41	Unit Wet Wt (pcf.)	108.72
Diameter (in.)	1.94	Moisture Content, %	53.37
Length (in.)	3.74	Unit Dry Wt.(pcf.)	70.88
Length (cm.)	9.50		

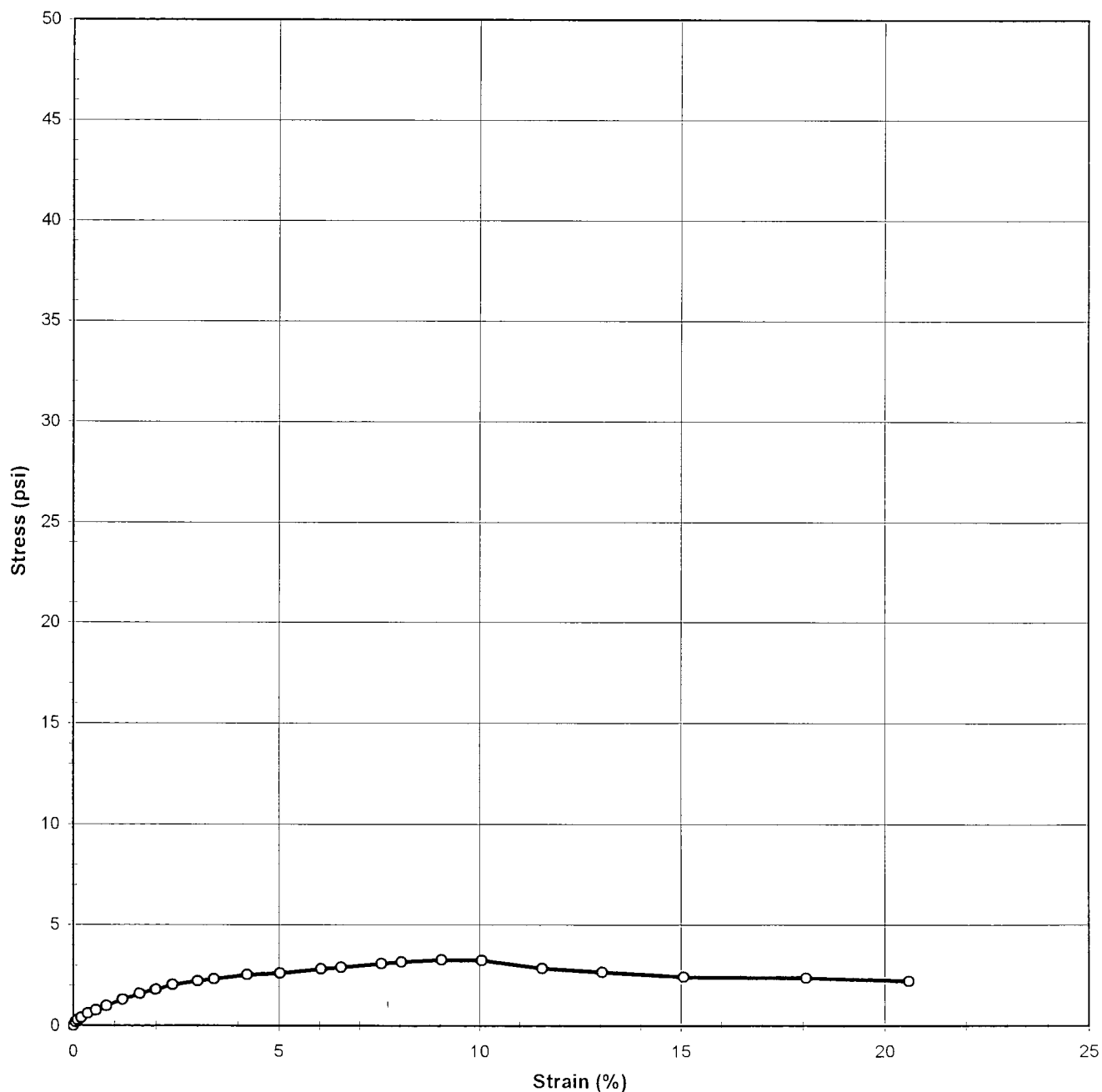
DEFORMATION (in)	LOAD (lbs)	ELAPSED TIME (min.)	STRAIN (%)	STRESS (psi)
0.000	0.4	0.00	0.00	0.00
0.002	1.0	0.05	0.05	0.19
0.004	1.3	0.12	0.10	0.30
0.007	1.6	0.25	0.20	0.40
0.013	2.2	0.43	0.35	0.60
0.021	2.7	0.68	0.56	0.76
0.030	3.4	1.00	0.81	0.97
0.045	4.3	1.50	1.20	1.30
0.060	5.2	2.00	1.61	1.59
0.075	5.9	2.50	2.01	1.81
0.090	6.6	3.00	2.41	2.04
0.113	7.3	3.75	3.01	2.23
0.128	7.6	4.27	3.42	2.33
0.158	8.3	5.27	4.22	2.54
0.188	8.6	6.27	5.03	2.62
0.226	9.4	7.53	6.04	2.84
0.245	9.7	8.15	6.54	2.92
0.282	10.4	9.40	7.54	3.09
0.301	10.7	10.03	8.04	3.18
0.338	11.2	11.28	9.05	3.29
0.376	11.2	12.53	10.05	3.25
0.432	10.0	14.40	11.56	2.86
0.488	9.5	16.28	13.06	2.67
0.563	9.0	18.78	15.07	2.44
0.676	9.1	22.53	18.08	2.38
0.770	8.7	25.65	20.59	2.22

Tested By: JCM Date: 09/17/04 Input Checked By: *[Signature]* Date: 9.21.04



UNCONFINED COMPRESSIVE STRENGTH  
ASTM D2166-00 (SOP S-30)

Client	BLASLAND, BOUCK, AND LEE	Boring No.	NA
Client Reference	GEHR TREATABILITY 204.302	Depth (ft.)	NA
Project No.	2004-221-03	Sample No.	PFP-33
Lab ID	2004-221-03-02	Visual	BROWN STABILIZED SLUDGE



Tested By JCM

Date 09/17/04

Approved By DB

Date 9/21/04

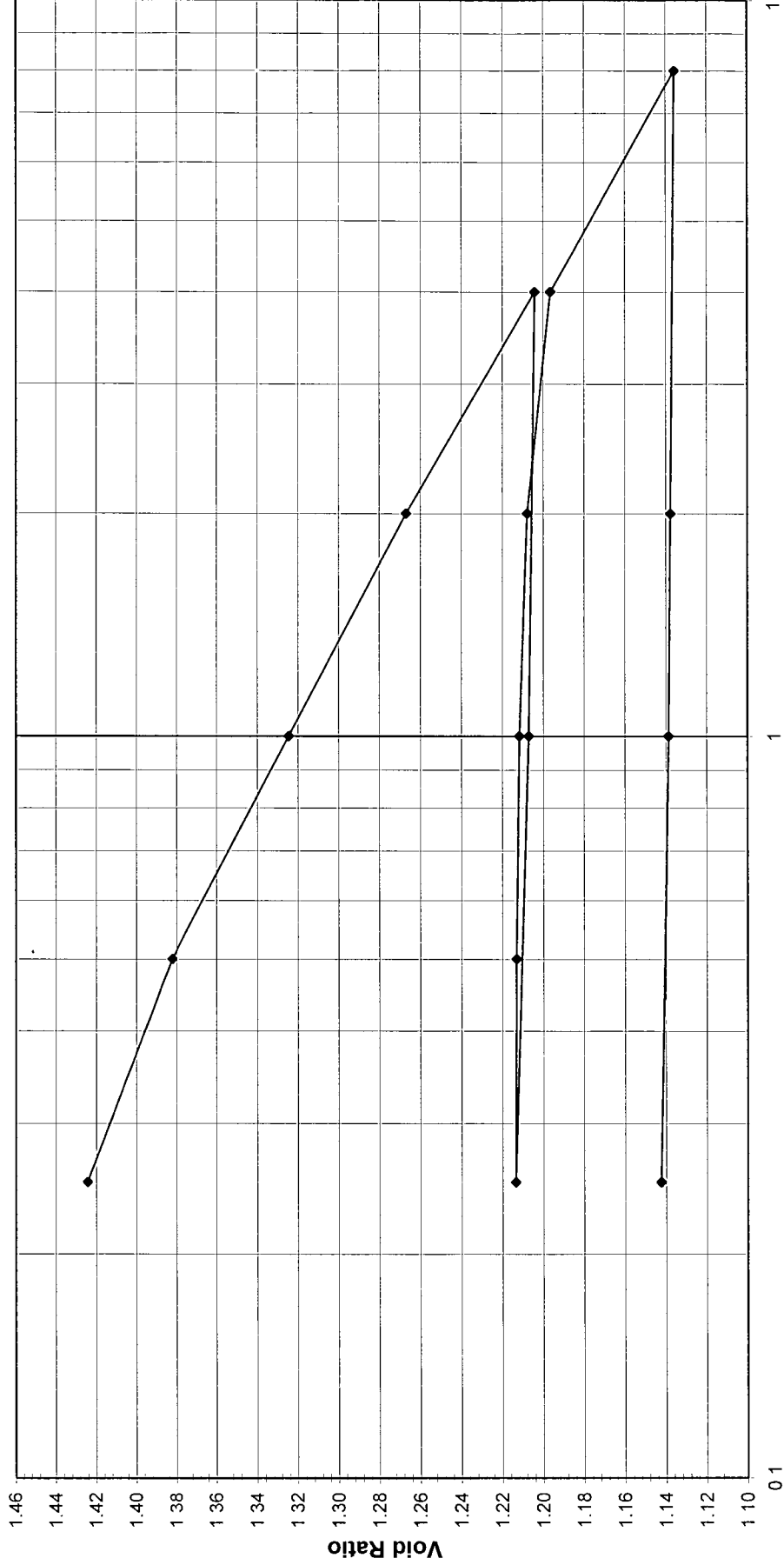


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Reference	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No	PFP-33
Lab ID	2004-221-03-02	Visual Description	BROWN STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Log P (tsf)

Tested By JRB Date 10/27/04 Approved By DB Date 9/2/05



# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Reference	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PPF-33
Lab ID	2004-221-03-02	Visual Description	BROWN STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED

**Consolidometer No.** 5

**1 Division** = 0.0001 (in)

## Sample Properties

	Initial	Final
<i>Water Content</i>		
Tare Number	X	Z-9
Wt. Tare & WS (gm)	38.85	215.63
Wt. Tare & DS (gm)	30.57	186.44
Wt. Water (gm)	8.28	29.19
Wt. Tare (gm)	15.23	100.29
Wt. DS (gm)	15.34	86.15
Water Content (%)	53.98	33.88
<i>Sample Parameters</i>		
Sample Diameter (in)	2.5	2.5
Sample Height (in)	1.000	0.863
Sample Volume (cc)	80.44	69.44
Wt. Wet Sample + Ring (gm)	346.03	328.45
Wt. of Ring (gm)	211.28	211.28
Wt. of Wet Sample (gm)	134.75	117.17
Wet Density (pcf)	104.53	105.29
Wet Density (g/cc)	1.68	1.69
Water Content (%)	53.98	33.88
Wt. of Dry Sample (gm)	87.51	87.51
Dry Density (pcf)	67.89	78.64
Dry Density (g/cc)	1.09	1.26
Void Ratio	1.4818	1.1423
Saturation (%)	98.35	80.08
Specific Gravity	2.70	Assumed

## Test Data Summary

Applied Pressure (tsf)	Final Dial Reading (div)	Machine Deflection (div)	Corrected Reading (div)	Height of Sample (mm)	Volume (cc)	Dry Density (g/cc)	Void Ratio
Seating	0	0	0	25.400	80.440	1.08794	1.48176
0.25	236.1	4.5	231.6	24.812	78.577	1.11373	1.42429
0.5	412.7	11.1	401.6	24.380	77.209	1.13346	1.38210
1	656.6	23.4	633.2	23.792	75.346	1.16148	1.32462
2	903.5	37.6	865.9	23.201	73.475	1.19107	1.26687
4	1175.0	55.8	1119.2	22.557	71.437	1.22504	1.20401
1	1141.5	34.8	1106.7	22.589	71.538	1.22332	1.20711
0.25	1096.5	15.8	1080.7	22.655	71.747	1.21975	1.21356
0.5	1101.0	18.4	1082.6	22.650	71.731	1.22001	1.21309
1	1115.9	27.5	1088.4	22.635	71.685	1.22081	1.21165
2	1144.4	40.4	1104.0	22.596	71.559	1.22295	1.20778
4	1205.3	55.1	1150.2	22.478	71.188	1.22933	1.19631
8	1467.3	73.3	1394.0	21.859	69.227	1.26416	1.13581
2	1429.3	43.2	1386.1	21.879	69.290	1.26300	1.13777
1	1421.8	39.1	1382.7	21.888	69.317	1.26250	1.13861
0.25	1388.2	20.5	1367.7	21.926	69.438	1.26031	1.14233

Tested By **JRB** Date **10/27/04** Input Checked By **TM** Date **3-2-05**

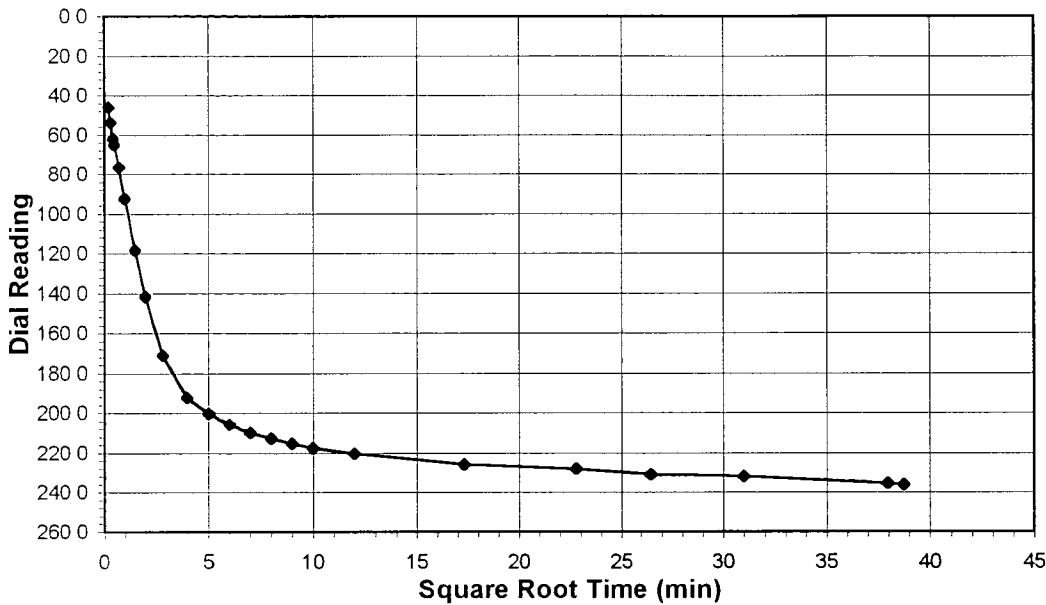
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# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

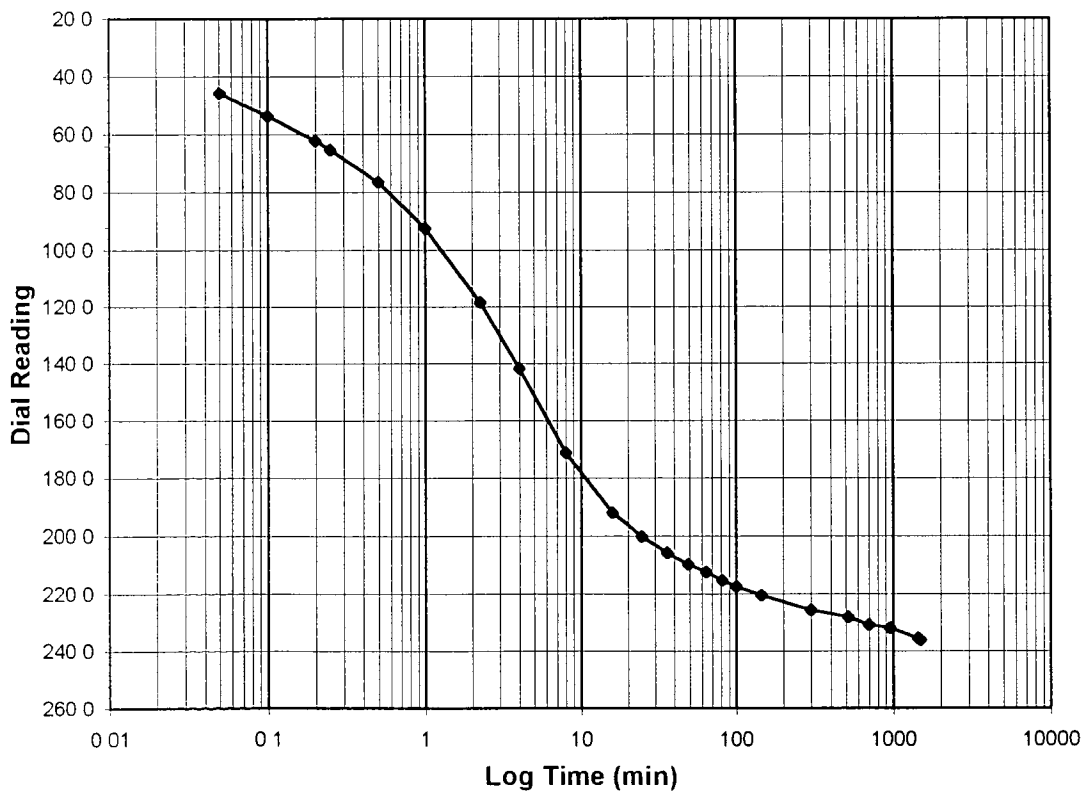
Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PFP-33
Lab ID	2004-221-03-02	Visual Description	BROWN STABILIZED MATERIAL

**Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED**



<b>Test Load (tsf)</b>	<b>0-0.25</b>
<b>Final Reading (div)</b>	<b>236.1</b>
Consolidometer No.	5
1 Division (in)	0.0001
<b>Start Date</b>	<b>10/27/04</b>
<b>Start Time</b>	<b>15:52:34</b>

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>0.0</b>
0.05	45.9
0.10	53.8
0.20	62.1
0.25	65.3
0.50	76.5
1.00	92.5
2.25	118.4
4.00	141.8
8.00	171.2
16.00	192.0
25.00	200.2
36.00	205.8
49.00	209.8
64.00	212.5
81.00	215.4
100.00	217.4
144.00	220.5
300.00	225.6
520.00	228.1
700.00	230.8
960.00	231.9
1440.00	235.5
1501.07	236.1



Tested By MPS Date 10/27/04 Checked By TM Date 3-2-05

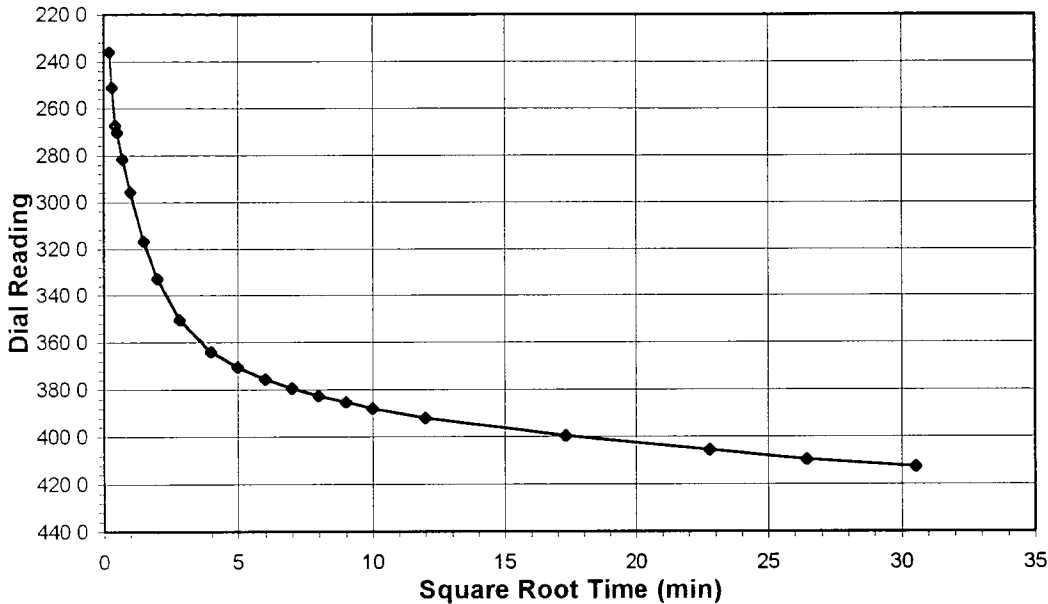


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PFP-33
Lab ID	2004-221-03-02	Visual Description	BROWN STABILIZED MATERIAL

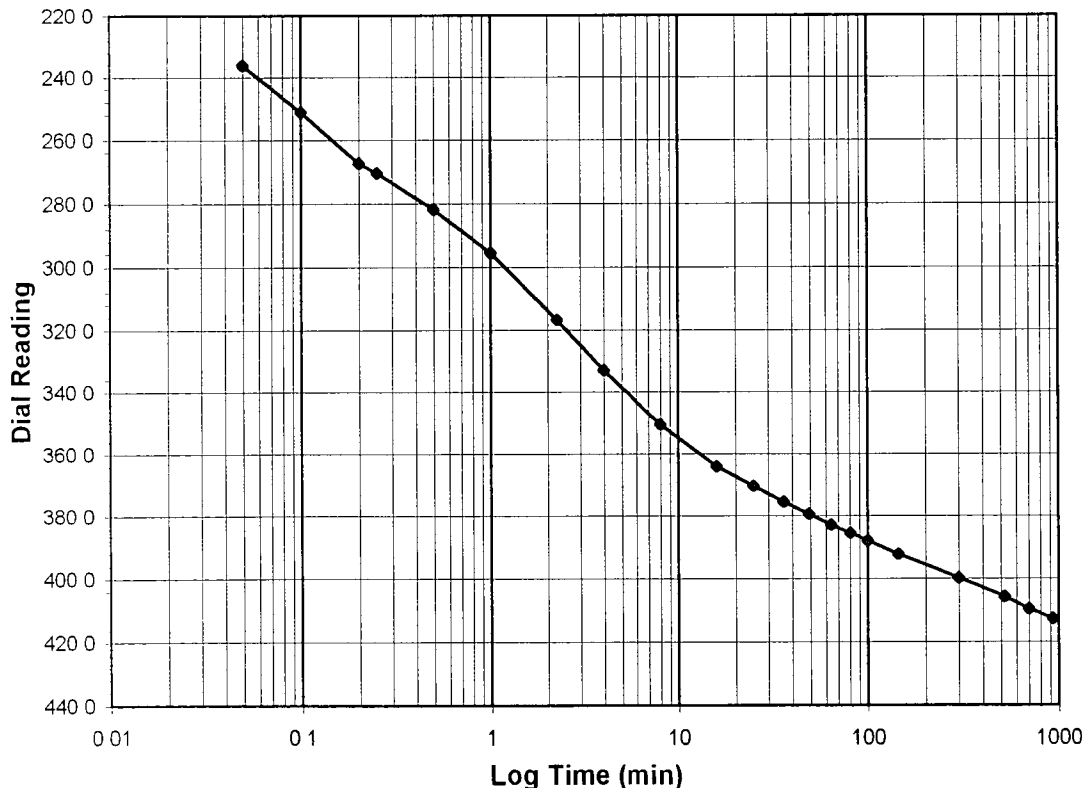
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.25-0.5
Final Reading (div)	412.7
Consolidometer No.	5
1 Division (in)	0.0001

Start Date	10/28/04
Start Time	17:01:47

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>236.1</b>
0.05	236.1
0.10	251.2
0.20	267.3
0.25	270.4
0.50	281.8
1.00	295.6
2.25	316.9
4.00	332.9
8.00	350.3
16.00	364.0
25.00	370.4
36.00	375.5
49.00	379.4
64.00	382.7
81.00	385.4
100.00	387.9
144.00	392.1
300.00	399.8
520.00	405.6
700.00	409.6
933.17	412.7



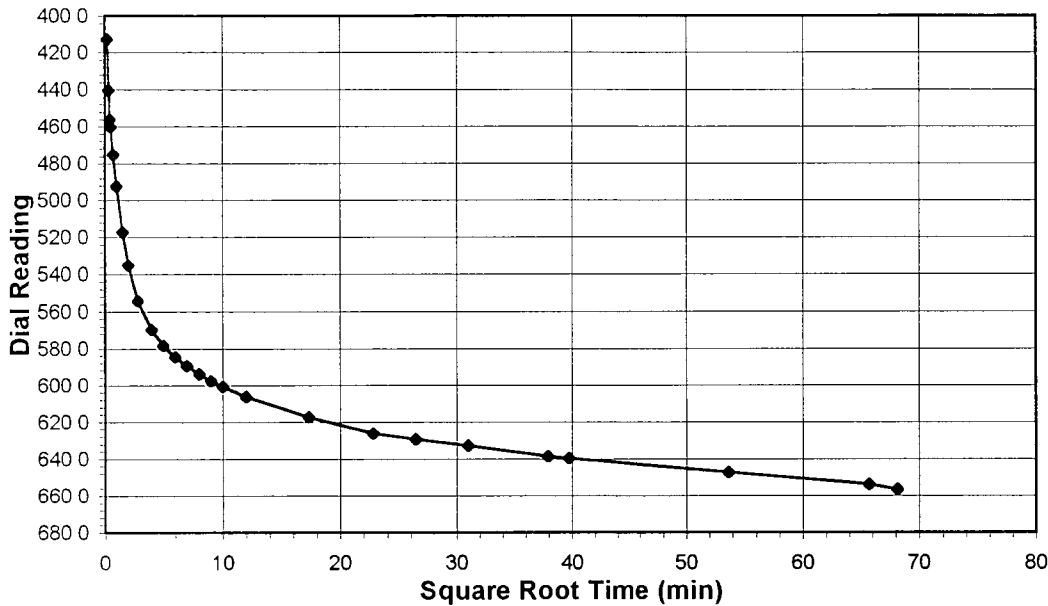
Tested By *MPS* Date *10/28/04* Checked By *TM* Date *3-2-05*



**ONE DIMENSIONAL CONSOLIDATION**  
ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PPF-33
Lab ID	2004-221-03-02	Visual Description	BROWN STABILIZED MATERIAL

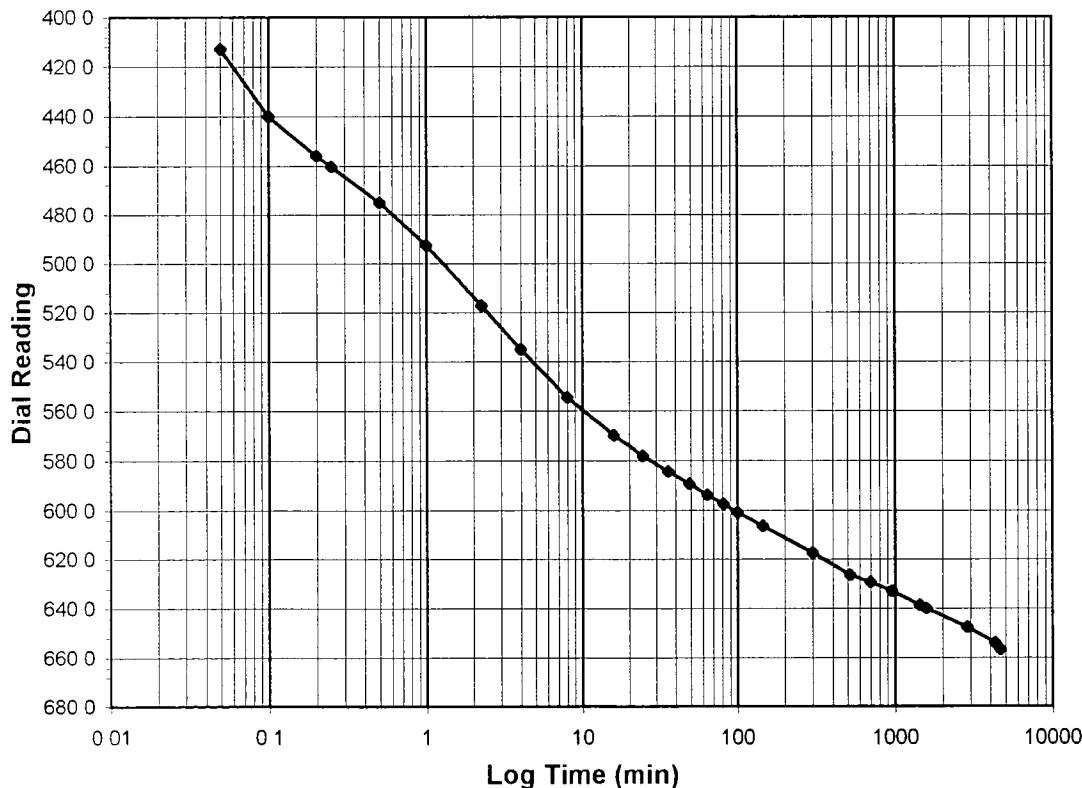
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



<b>Test Load</b>	(tsf)	<b>0.5-1.0</b>
<b>Final Reading</b>	(div)	<b>656.6</b>
Consolidometer No.		5
1 Division	(in)	0.0001

Start Date	10/29/04
Start Time	8:35:57

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>412.7</b>
0.05	412.7
0.10	440.2
0.20	456.0
0.25	460.4
0.50	475.0
1.00	492.4
2.25	517.0
4.00	535.1
8.00	554.5
16.00	569.8
25.00	578.3
36.00	584.5
49.00	589.4
64.00	593.9
81.00	597.5
100.00	600.8
144.00	606.3
300.00	617.2
520.00	626.3
700.00	629.2
960.00	632.9
1440.00	638.7
1578.15	639.9
2880.00	647.4
4320.00	653.9
4641.42	656.6



Tested By MPS Date 10/29/04 Checked By TM Date 3-2-05

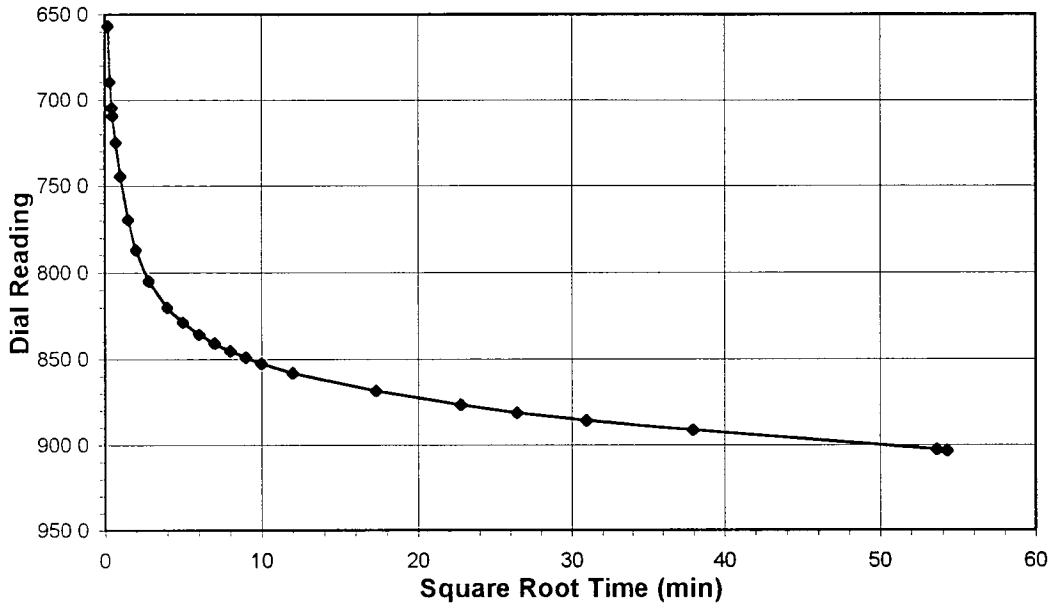


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PFP-33
Lab ID	2004-221-03-02	Visual Description	BROWN STABILIZED MATERIAL

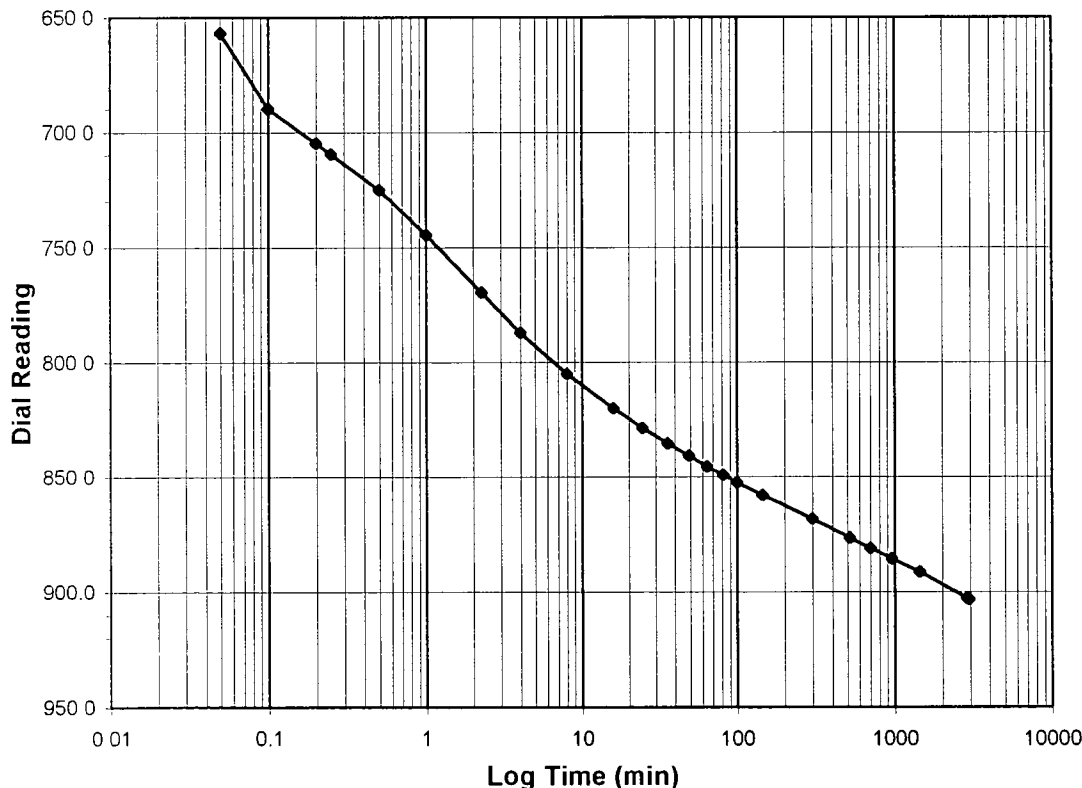
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	1.0-2.0
Final Reading (div)	903.5
Consolidometer No.	5
1 Division (in)	0.0001

Start Date	11/1/04
Start Time	15:08:18

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>656.6</b>
0.05	656.8
0.10	689.5
0.20	704.6
0.25	709.3
0.50	724.9
1.00	744.4
2.25	769.7
4.00	787.1
8.00	805.1
16.00	820.2
25.00	828.7
36.00	835.4
49.00	840.7
64.00	845.4
81.00	849.0
100.00	852.5
144.00	858.0
300.00	868.4
520.00	876.6
700.00	881.2
960.00	885.7
1440.00	891.5
2880.00	902.8
2949.98	903.5



Tested By MPS Date 11/1/04 Checked By Tm Date 3-2-05

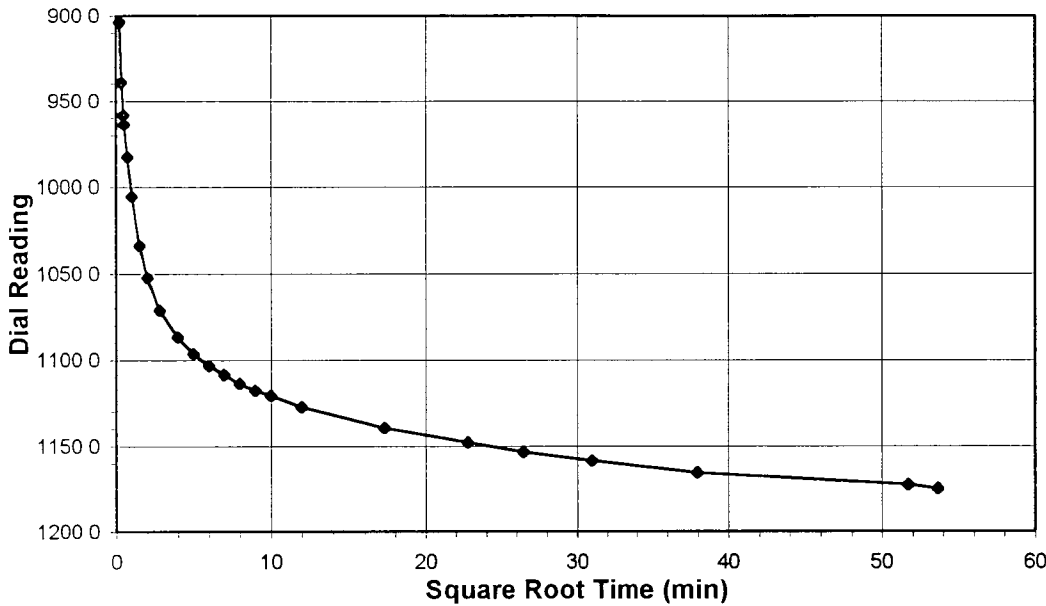




**ONE DIMENSIONAL CONSOLIDATION**  
ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PFP-33
Lab ID	2004-221-03-02	Visual Description	BROWN STABILIZED MATERIAL

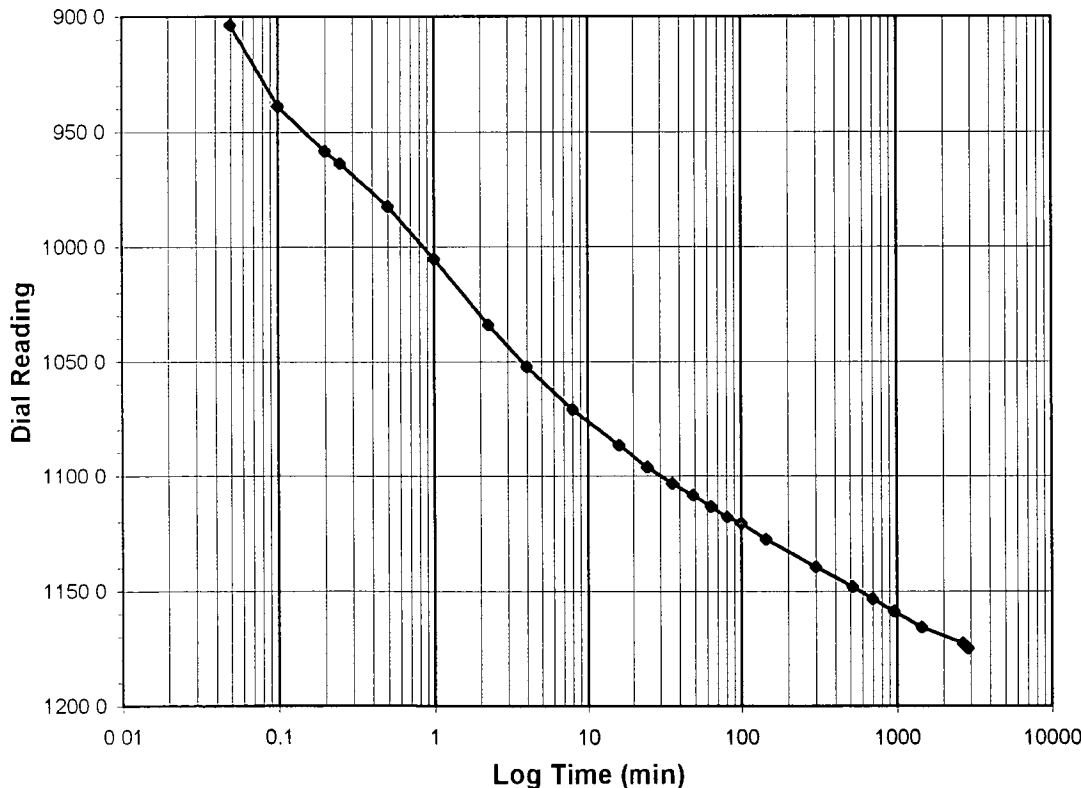
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



<b>Test Load</b>	(tsf)	<b>2.0-4.0</b>
<b>Final Reading</b>	(div)	<b>1175.0</b>
Consolidometer No.		5
1 Division	(in)	0.0001

Start Date	11/3/04
Start Time	16:21:42

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>903.5</b>
0.05	903.6
0.10	939.1
0.20	958.4
0.25	963.9
0.50	982.5
1.00	1005.4
2.25	1034.1
4.00	1052.4
8.00	1071.1
16.00	1086.6
25.00	1096.2
36.00	1103.2
49.00	1108.4
64.00	1113.5
81.00	1117.8
100.00	1120.7
144.00	1127.5
300.00	1139.5
520.00	1148.1
700.00	1153.5
960.00	1158.6
1440.00	1165.7
2674.67	1172.6
2880.00	1175.0



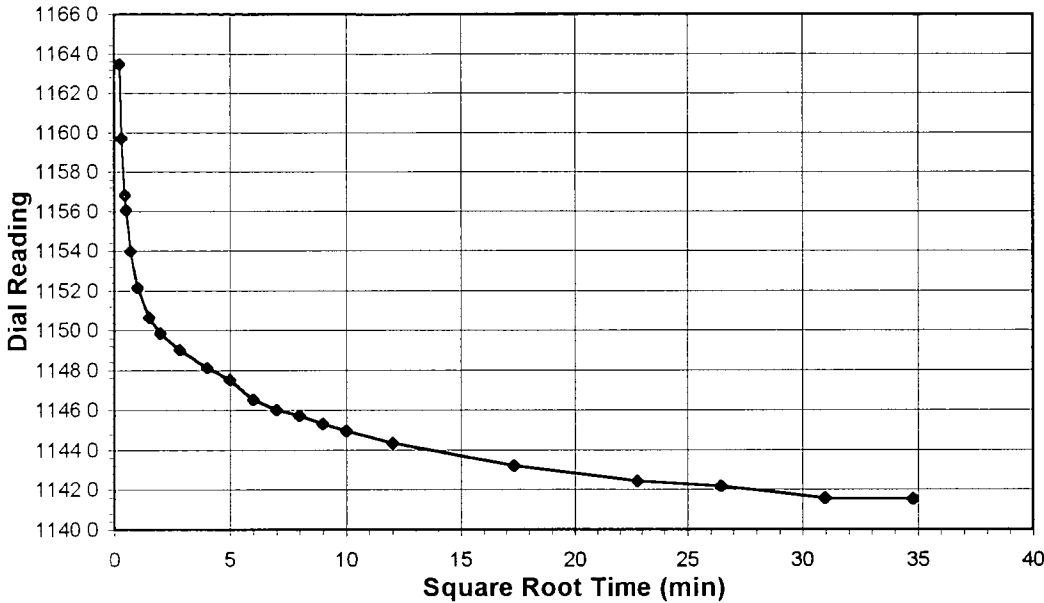
Tested By MPS Date 11/3/04 Checked By TM Date 3-2-05

# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

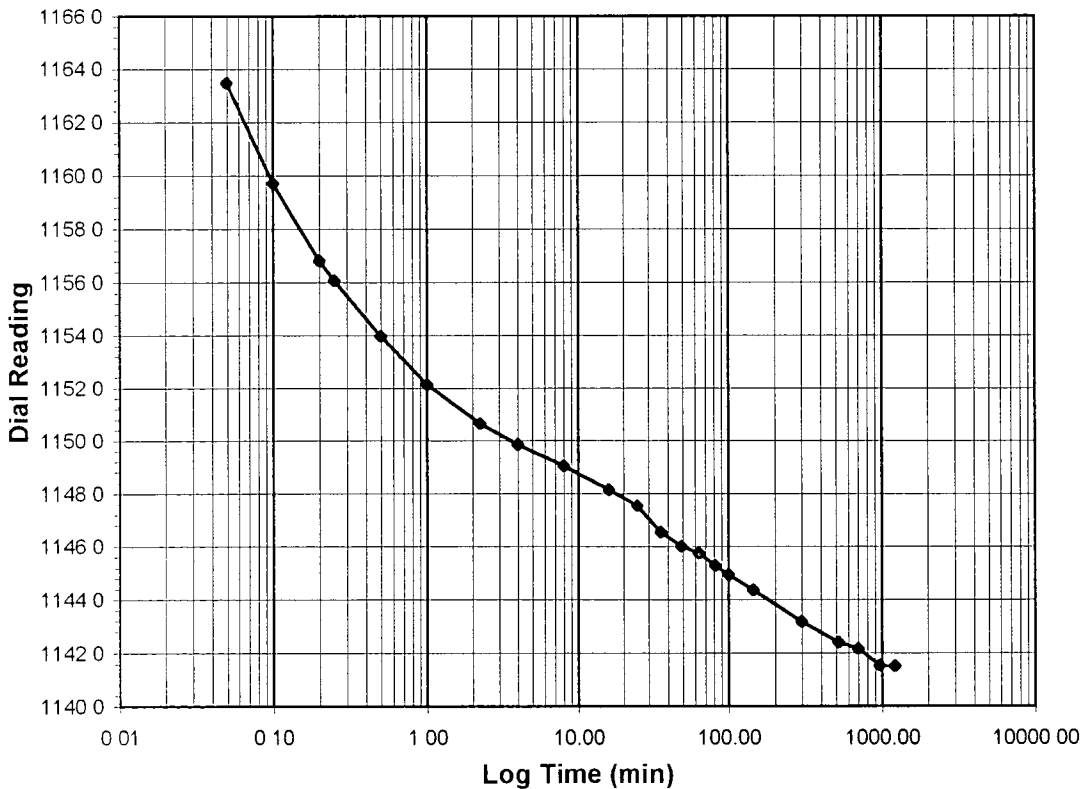
Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PFP-33
Lab ID	2004-221-03-02	Visual Description	BROWN STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



<b>Test Load</b> (tsf)	<b>4.0-1.0</b>
<b>Final Reading</b> (div)	<b>1141.5</b>
Consolidometer No.	5
1 Division (in)	0.0001
<b>Start Date</b>	<b>11/5/04</b>
<b>Start Time</b>	<b>16:53:54</b>

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>1175.0</b>
0.05	1163.5
0.10	1159.7
0.20	1156.8
0.25	1156.1
0.50	1154.0
1.00	1152.2
2.25	1150.6
4.00	1149.8
8.00	1149.0
16.00	1148.1
25.00	1147.5
36.00	1146.5
49.00	1146.0
64.00	1145.7
81.00	1145.3
100.00	1144.9
144.00	1144.4
300.00	1143.2
520.00	1142.4
700.00	1142.2
960.00	1141.6
1210.43	1141.5



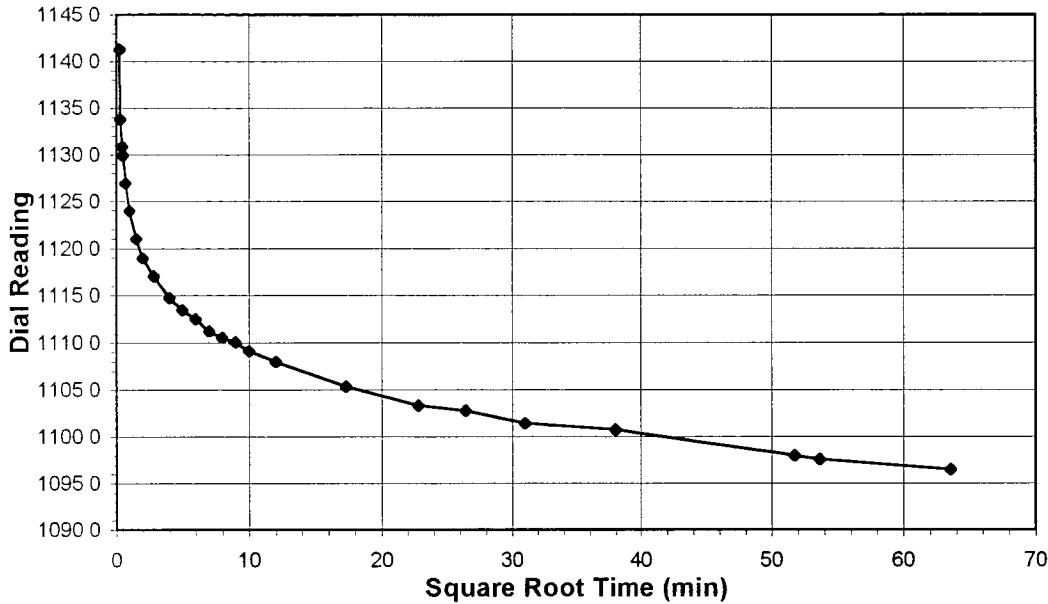
Tested By MPS Date 11/5/04 Checked By TM Date 3-2-05

# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

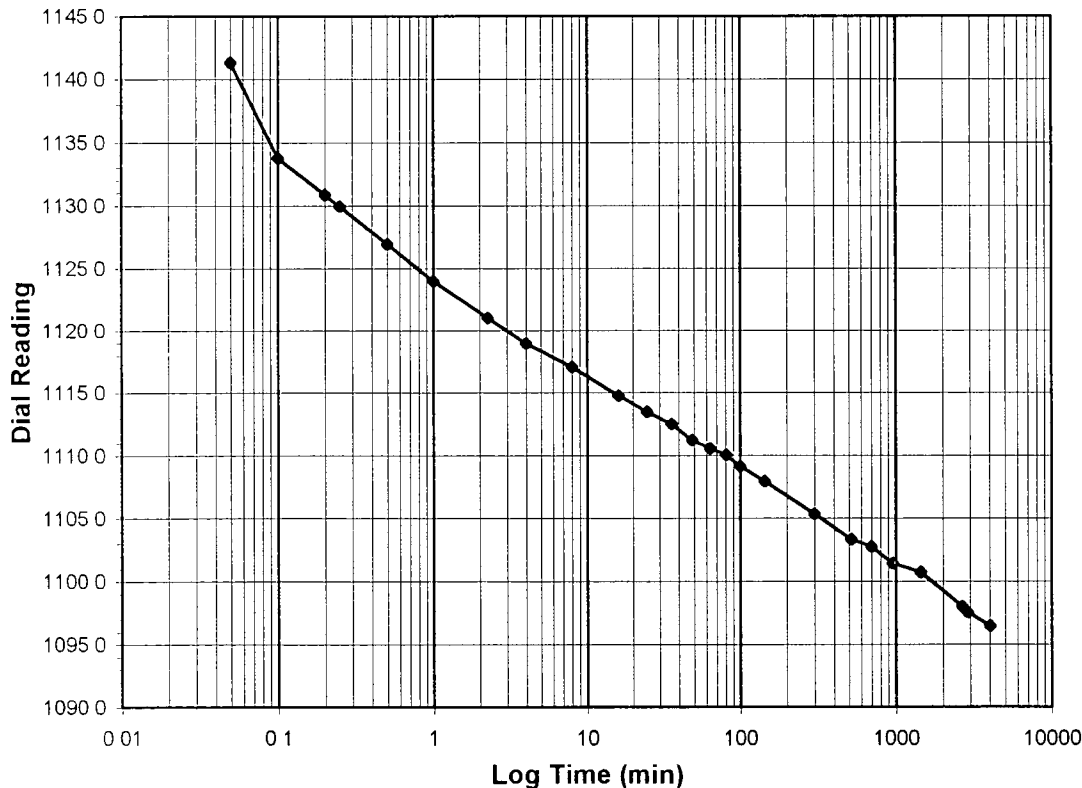
Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PFP-33
Lab ID	2004-221-03-02	Visual Description	BROWN STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



<b>Test Load (tsf)</b>	<b>1.0-0.25</b>
<b>Final Reading (div)</b>	<b>1096.5</b>
Consolidometer No.	5
1 Division (in)	0.0001
Start Date	11/6/04
Start Time	13:06:37

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>1141.5</b>
0.05	1141.3
0.10	1133.8
0.20	1130.8
0.25	1129.9
0.50	1126.9
1.00	1123.9
2.25	1121.0
4.00	1119.0
8.00	1117.0
16.00	1114.8
25.00	1113.5
36.00	1112.5
49.00	1111.3
64.00	1110.6
81.00	1110.1
100.00	1109.2
144.00	1108.0
300.00	1105.4
520.00	1103.3
700.00	1102.8
960.00	1101.5
1440.00	1100.7
2680.13	1098.0
2880.00	1097.6
4043.58	1096.5



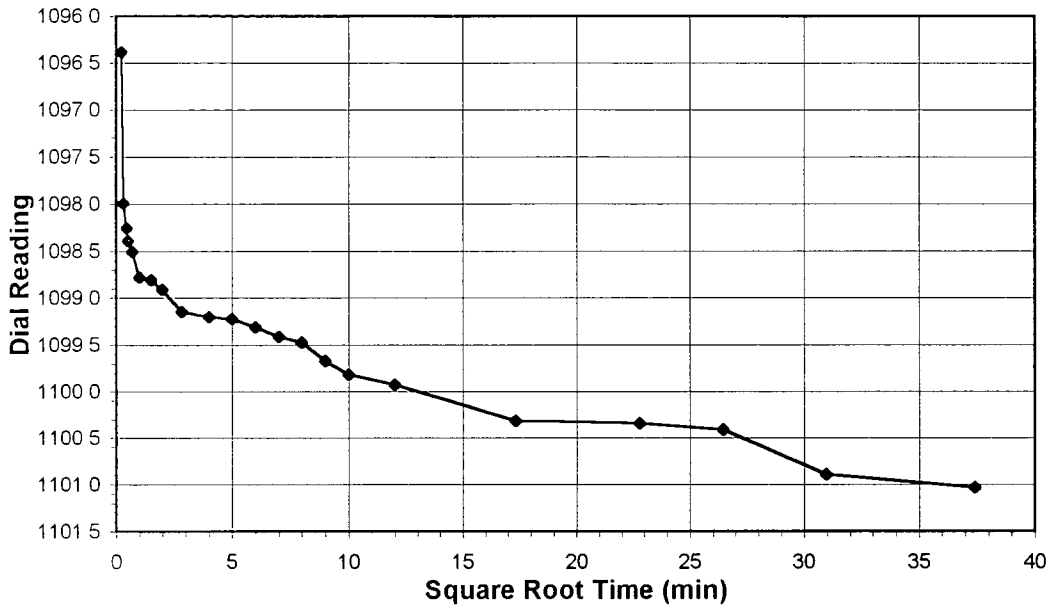
Tested By MPS Date 11/6/04 Checked By TM Date 3-2-05

# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

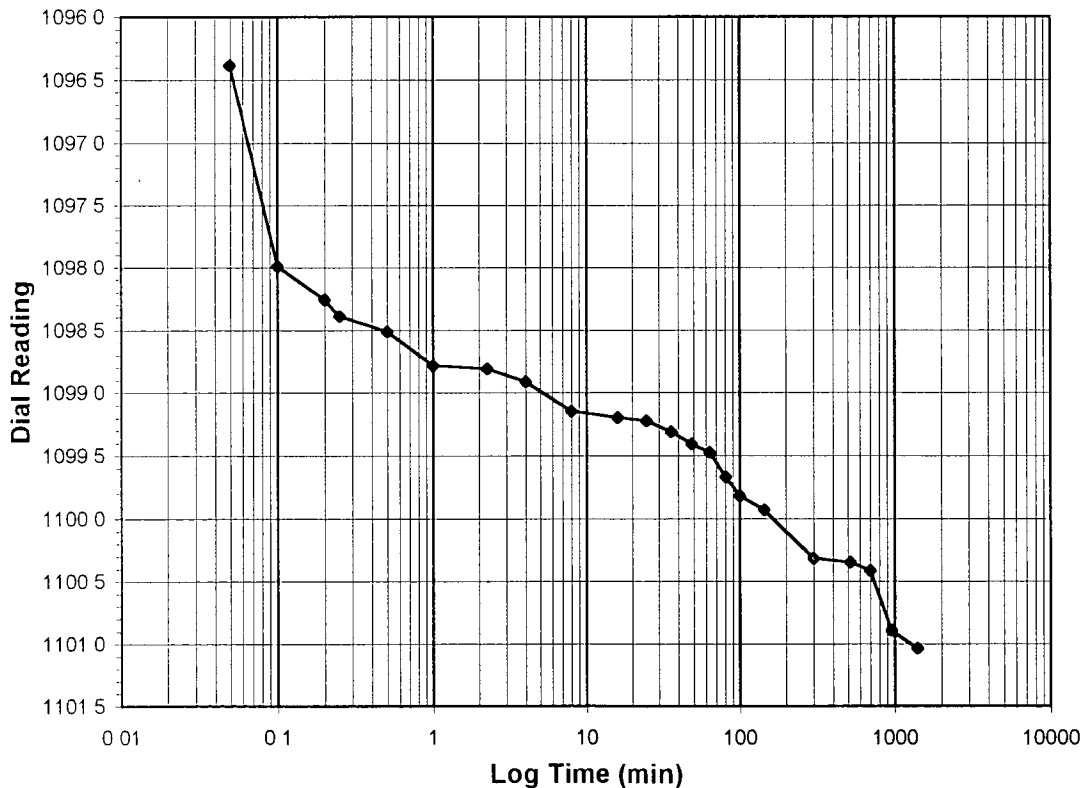
Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-03	Sample No.	PFP-33
Lab ID	2004-221-03-02	Visual Description	BROWN STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.25-0.5
Final Reading (div)	1101.0
Consolidometer No.	5
1 Division (in)	0.0001
Start Date	11/9/04
Start Time	8:35:50

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>1096.5</b>
0.05	1096.4
0.10	1098.0
0.20	1098.3
0.25	1098.4
0.50	1098.5
1.00	1098.8
2.25	1098.8
4.00	1098.9
8.00	1099.1
16.00	1099.2
25.00	1099.2
36.00	1099.3
49.00	1099.4
64.00	1099.5
81.00	1099.7
100.00	1099.8
144.00	1099.9
300.00	1100.3
520.00	1100.3
700.00	1100.4
960.00	1100.9
1400.78	1101.0



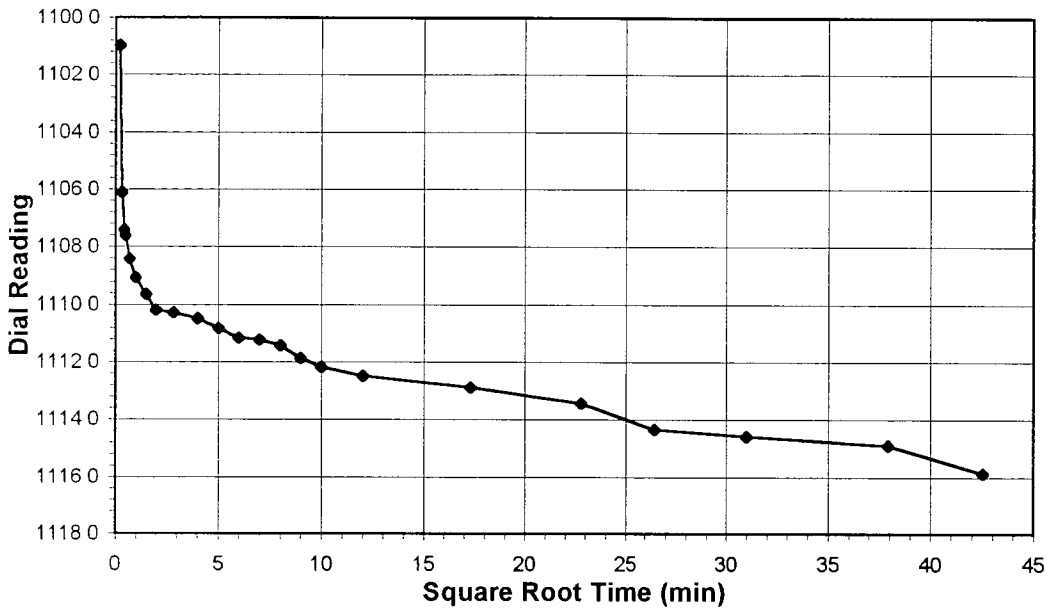
Tested By MPS Date 11/9/04 Checked By JM Date 3-2-05

# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PFP-33
Lab ID	2004-221-03-02	Visual Description	BROWN STABILIZED MATERIAL

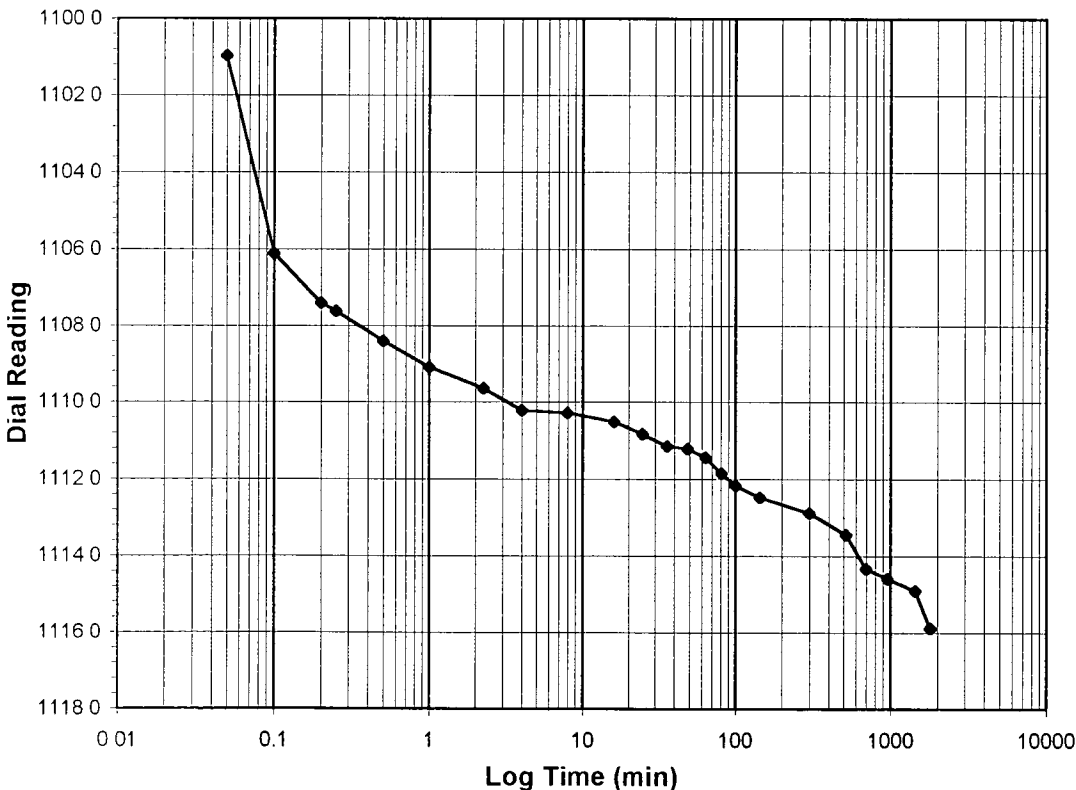
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.5-1.0
Final Reading (div)	1115.9
Consolidometer No.	5
1 Division (in)	0.0001

Start Date	11/10/04
Start Time	7:59:25

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>1101.0</b>
0.05	1101.0
0.10	1106.1
0.20	1107.4
0.25	1107.6
0.50	1108.4
1.00	1109.1
2.25	1109.6
4.00	1110.2
8.00	1110.3
16.00	1110.5
25.00	1110.8
36.00	1111.2
49.00	1111.2
64.00	1111.4
81.00	1111.9
100.00	1112.2
144.00	1112.5
300.00	1112.9
520.00	1113.5
700.00	1114.3
960.00	1114.6
1440.00	1114.9
1808.73	1115.9



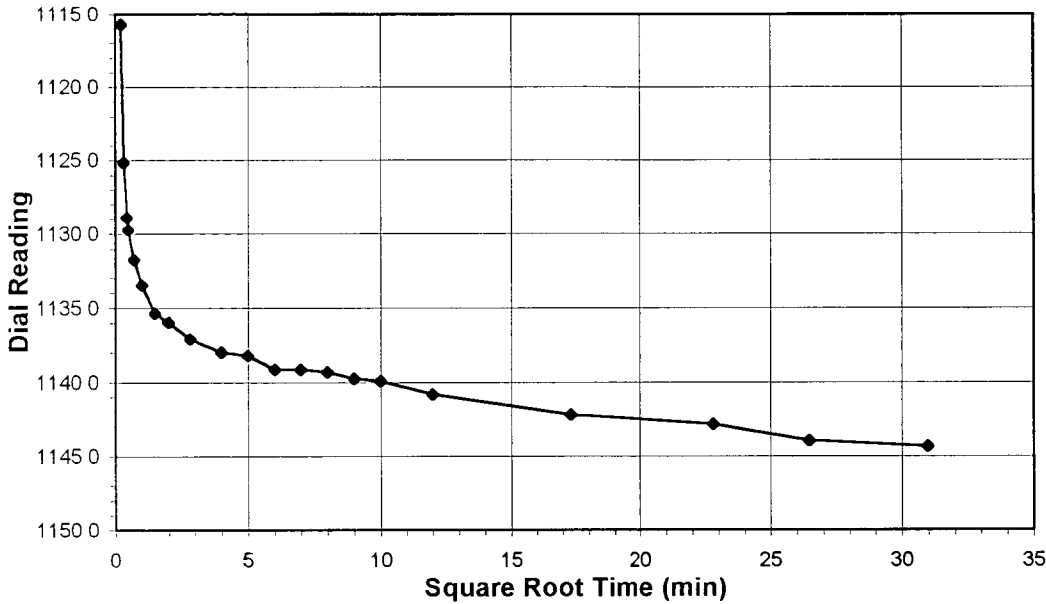
Tested By MPS Date 11/10/04 Checked By TM Date 3-2-05

# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-03	Sample No.	PPF-33
Lab ID	2004-221-03-02	Visual Description	BROWN STABILIZED MATERIAL

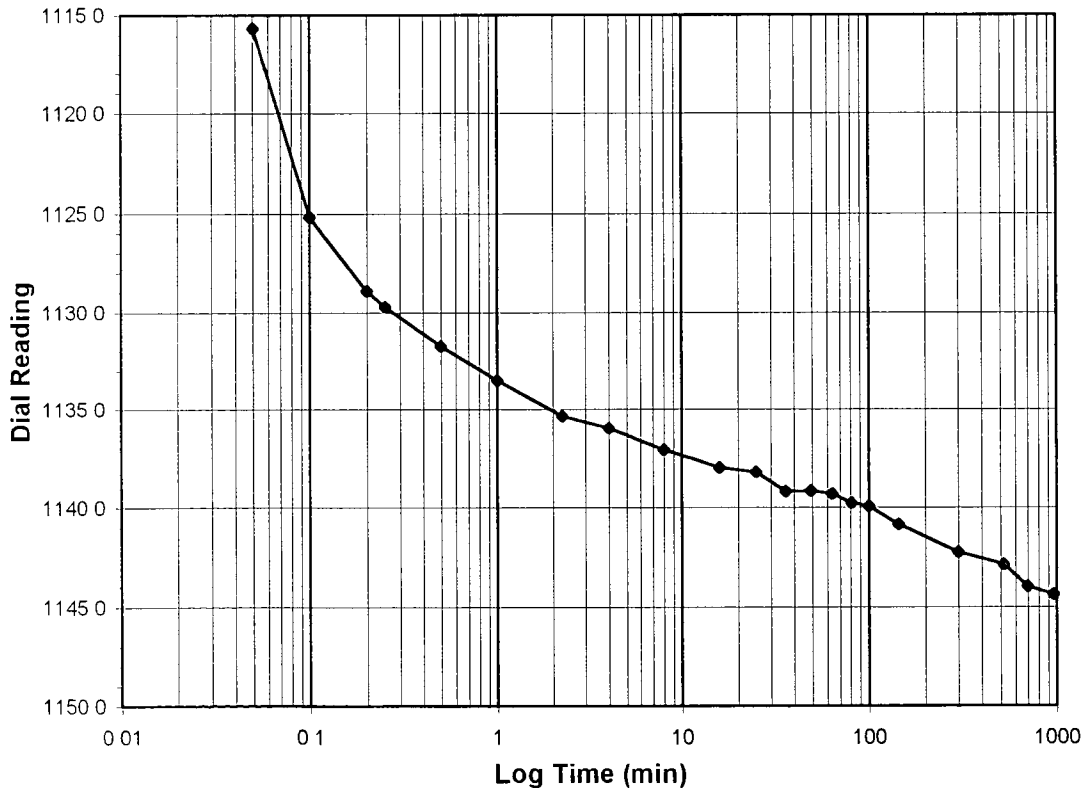
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	1.0-2.0
Final Reading (div)	1144.4
Consolidometer No.	5
1 Division (in)	0.0001

Start Date	11/11/04
Start Time	14:11:19

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>1115.9</b>
0.05	1115.7
0.10	1125.2
0.20	1128.9
0.25	1129.7
0.50	1131.7
1.00	1133.5
2.25	1135.3
4.00	1136.0
8.00	1137.1
16.00	1138.0
25.00	1138.2
36.00	1139.2
49.00	1139.1
64.00	1139.3
81.00	1139.7
100.00	1139.9
144.00	1140.8
300.00	1142.2
520.00	1142.8
700.00	1144.0
960.00	1144.4



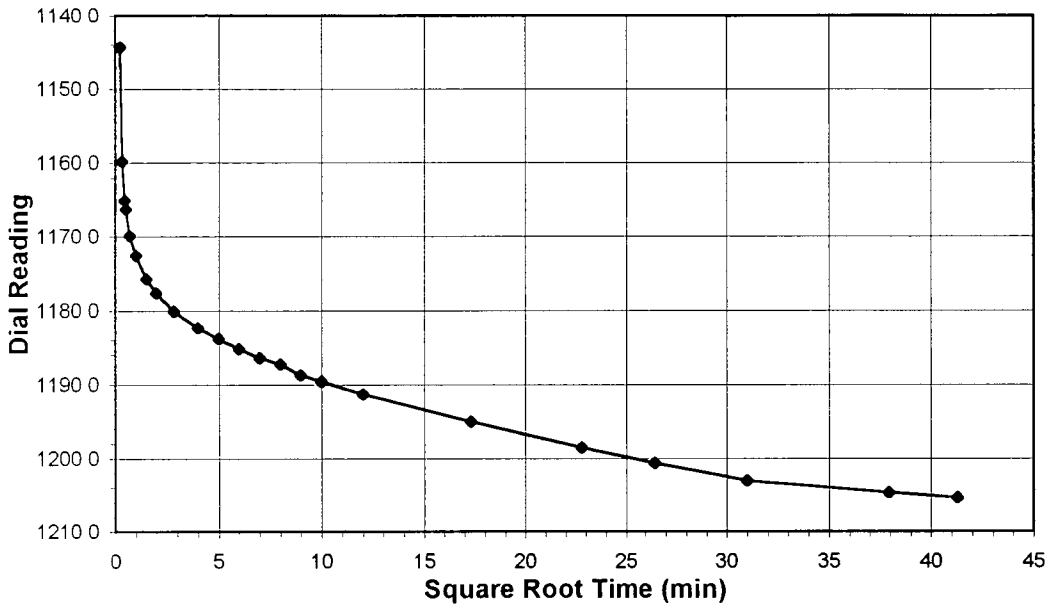
Tested By JRB Date 11/11/04 Checked By JM Date 3-2-05

# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PFP-33
Lab ID	2004-221-03-02	Visual Description	BROWN STABILIZED MATERIAL

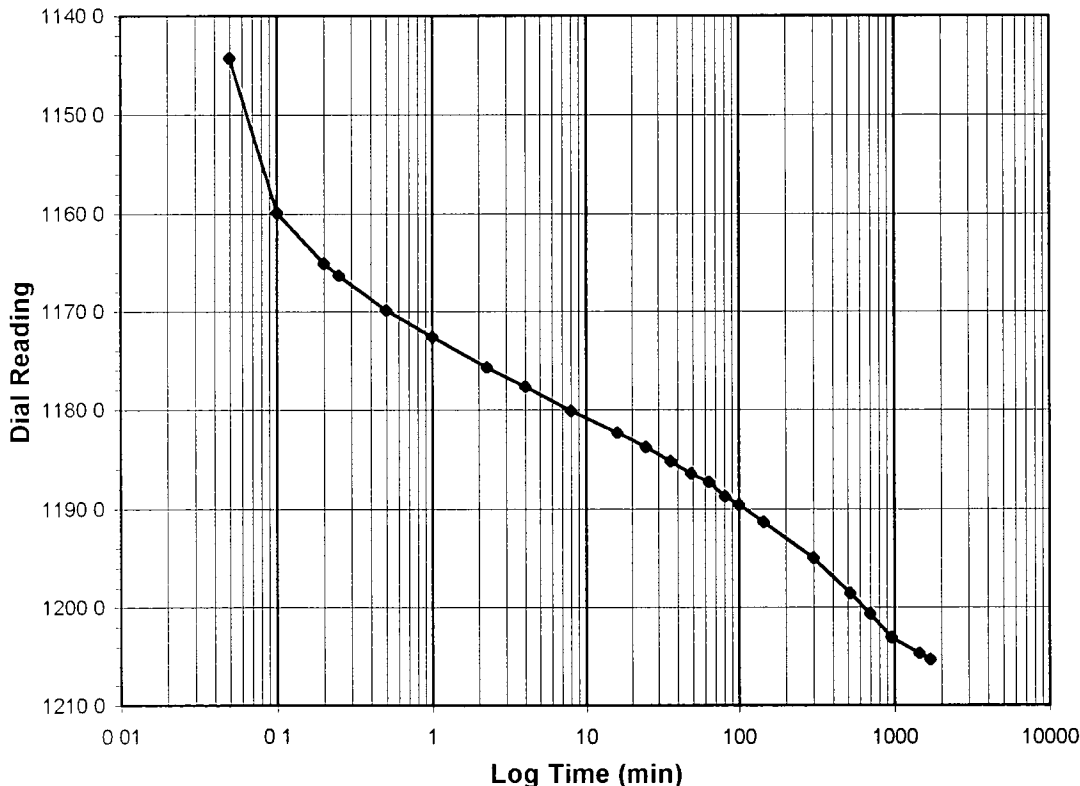
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	2.0-4.0
Final Reading (div)	1205.3
Consolidometer No.	5
1 Division (in)	0.0001

Start Date	11/12/04
Start Time	9:33:39

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>1144.4</b>
0.05	1144.3
0.10	1159.8
0.20	1165.0
0.25	1166.3
0.50	1169.9
1.00	1172.6
2.25	1175.7
4.00	1177.6
8.00	1180.1
16.00	1182.4
25.00	1183.8
36.00	1185.2
49.00	1186.4
64.00	1187.3
81.00	1188.7
100.00	1189.6
144.00	1191.3
300.00	1195.0
520.00	1198.6
700.00	1200.6
960.00	1203.1
1440.00	1204.7
1704.38	1205.3



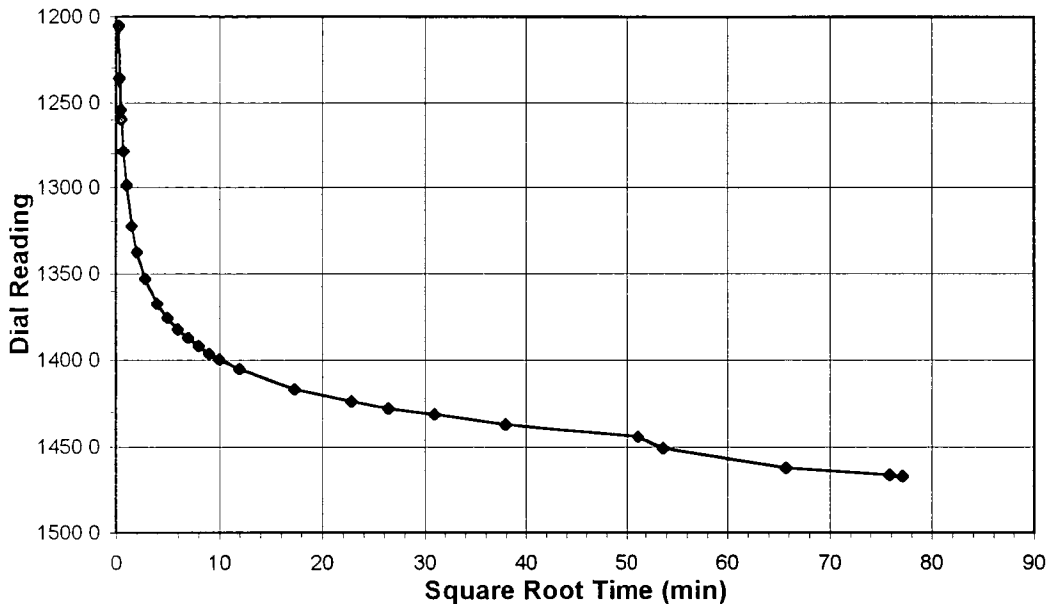
Tested By MPS Date 11/12/04 Checked By TM Date 3-2-05

# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PFP-33
Lab ID	2004-221-03-02	Visual Description	BROWN STABILIZED MATERIAL

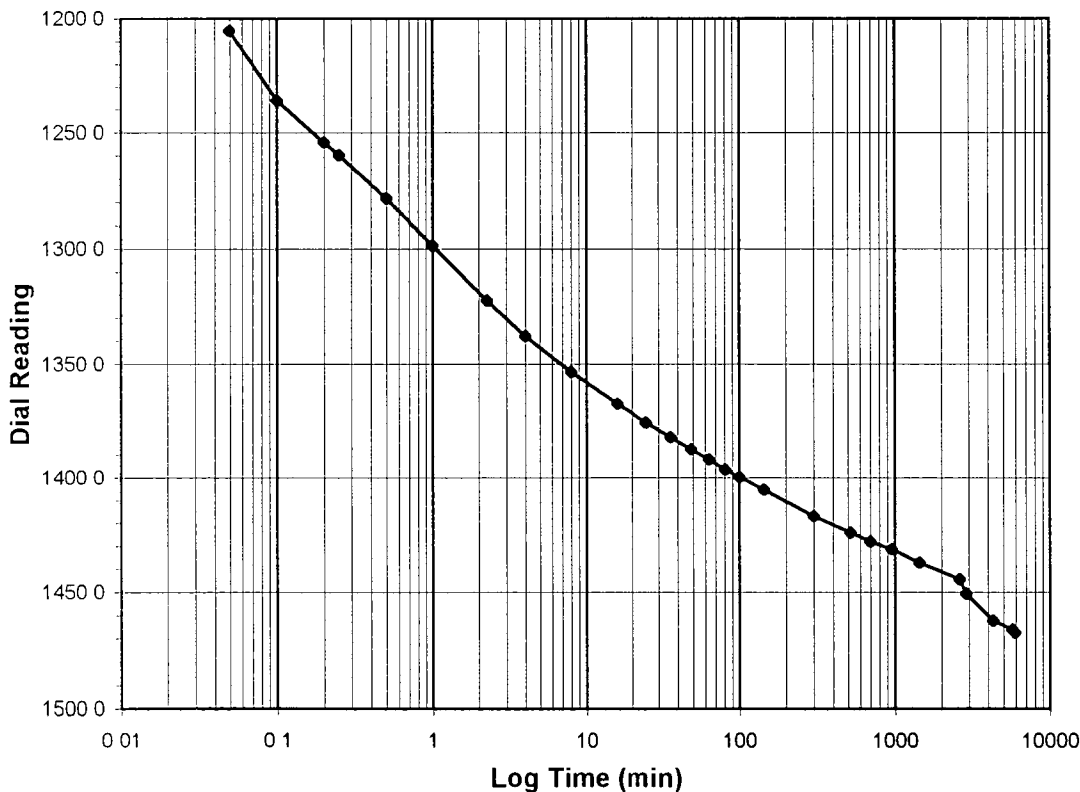
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	4.0-8.0
Final Reading (div)	1467.3
Consolidometer No.	5
1 Division (in)	0.0001

Start Date	11/13/04
Start Time	14:04:36

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>1205.3</b>
0.05	1205.2
0.10	1235.9
0.20	1254.2
0.25	1259.7
0.50	1278.4
1.00	1298.7
2.25	1322.4
4.00	1337.7
8.00	1353.3
16.00	1367.4
25.00	1375.6
36.00	1382.2
49.00	1387.2
64.00	1392.0
81.00	1396.3
100.00	1399.7
144.00	1405.1
300.00	1416.8
520.00	1424.1
700.00	1428.0
960.00	1431.4
1440.00	1437.3
2624.83	1444.4
2880.00	1450.8
4320.00	1462.4
5760.00	1466.4
5954.00	1467.3



Tested By MPS Date 11/13/04 Checked By JM Date 3-2-05

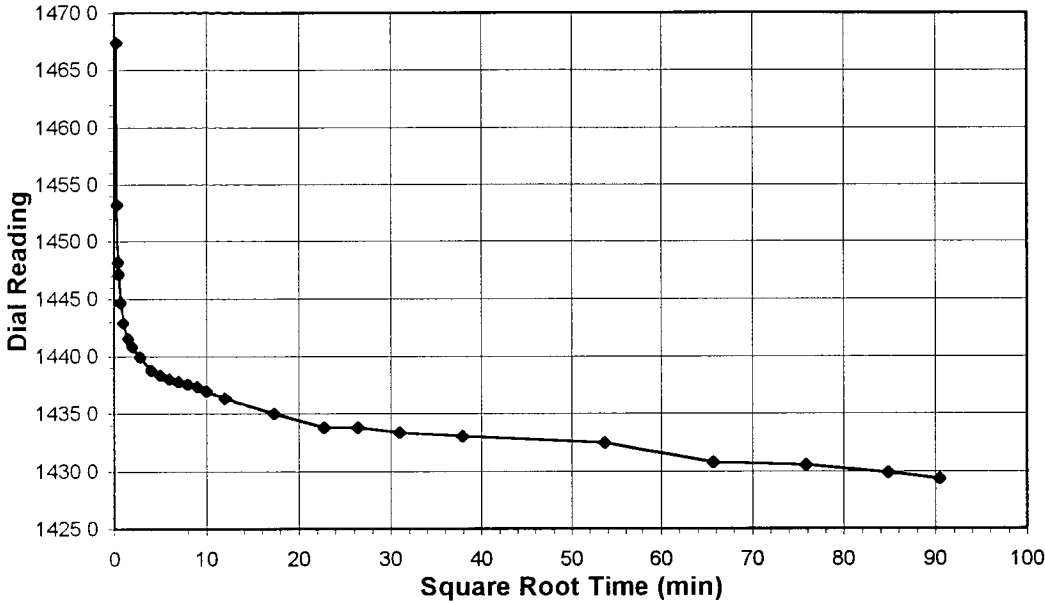




**ONE DIMENSIONAL CONSOLIDATION**  
ASTM D 2435-96 (SOP-S24A)

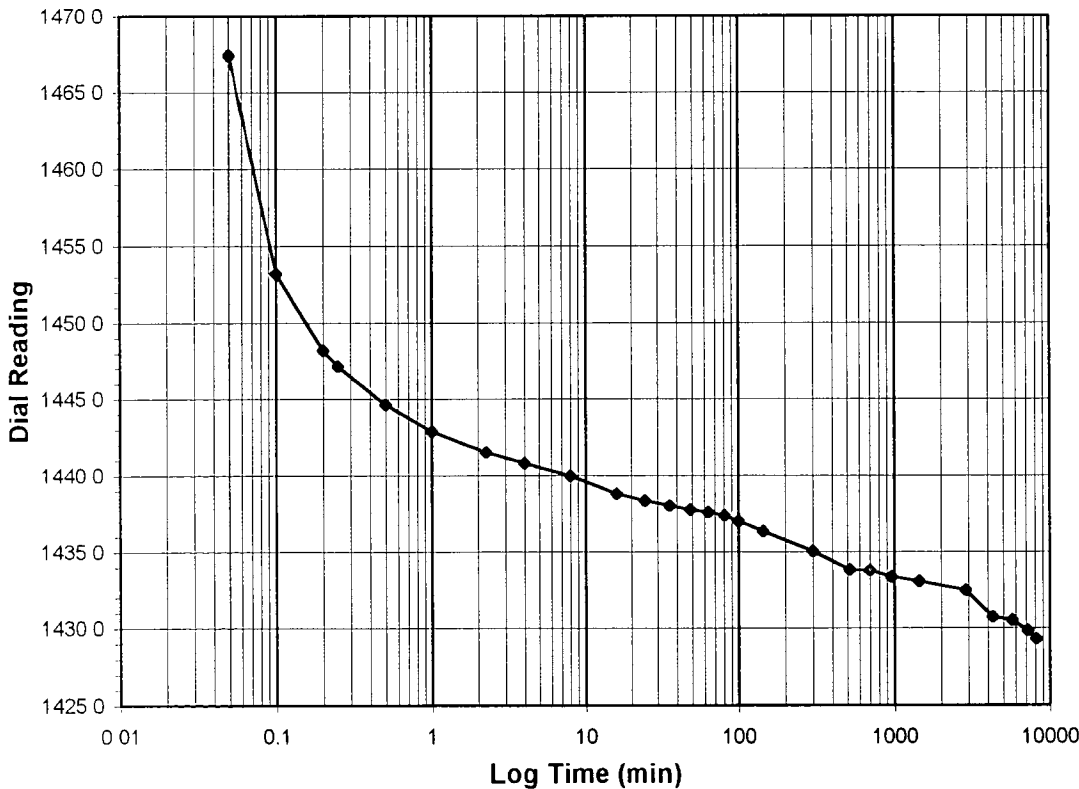
Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PFP-33
Lab ID	2004-221-03-02	Visual Description	BROWN STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



<b>Test Load</b>	(tsf)	<b>8.0-2.0</b>
<b>Final Reading</b>	(div)	<b>1429.3</b>
Consolidometer No.		275
1 Division	(in)	0.0001
<b>Start Date</b>		<b>11/17/04</b>
<b>Start Time</b>		<b>17:21:47</b>

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>1467.3</b>
0.05	1467.4
0.10	1453.2
0.20	1448.2
0.25	1447.1
0.50	1444.6
1.00	1442.9
2.25	1441.5
4.00	1440.8
8.00	1440.0
16.00	1438.8
25.00	1438.3
36.00	1438.0
49.00	1437.8
64.00	1437.6
81.00	1437.4
100.00	1437.0
144.00	1436.3
300.00	1435.0
520.00	1433.8
700.00	1433.8
960.00	1433.4
1440.00	1433.1
2880.00	1432.5
4320.00	1430.7
5760.00	1430.5
7200.00	1429.8
8189.40	1429.3



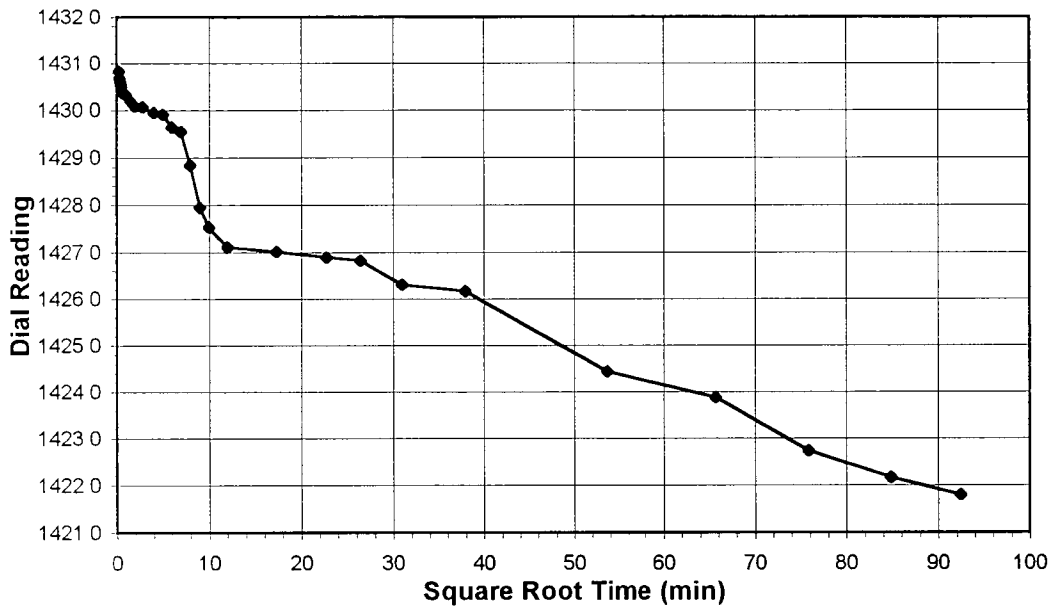
Tested By JRB Date 11/17/04 Checked By Jm Date 3-2-05

# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PPF-33
Lab ID	2004-221-03-02	Visual Description	BROWN STABILIZED MATERIAL

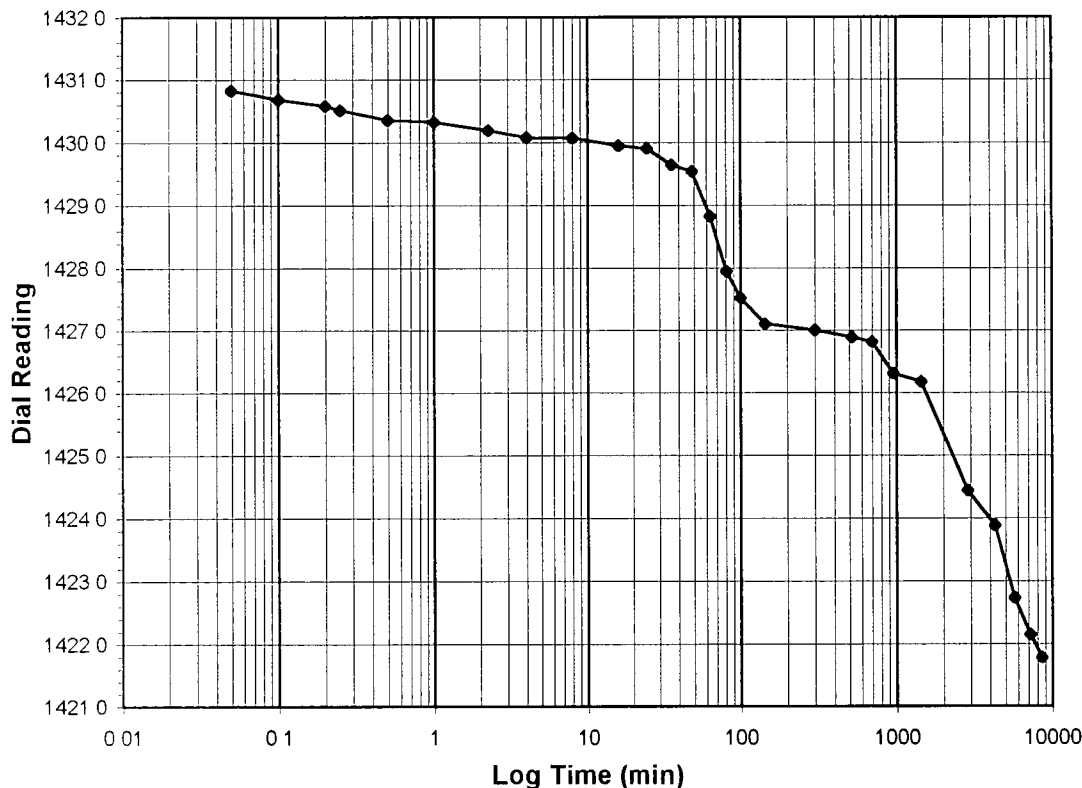
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	2.0-1.0
Final Reading (div)	1421.8
Consolidometer No.	5
1 Division (in)	0.0001

Start Date	11/23/04
Start Time	10:00:18

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>1429.3</b>
0.05	1430.8
0.10	1430.7
0.20	1430.6
0.25	1430.5
0.50	1430.4
1.00	1430.3
2.25	1430.2
4.00	1430.1
8.00	1430.1
16.00	1429.9
25.00	1429.9
36.00	1429.6
49.00	1429.5
64.00	1428.8
81.00	1427.9
100.00	1427.5
144.00	1427.1
300.00	1427.0
520.00	1426.9
700.00	1426.8
960.00	1426.3
1440.00	1426.2
2880.00	1424.4
4320.00	1423.9
5760.00	1422.7
7200.00	1422.2
8550.63	1421.8



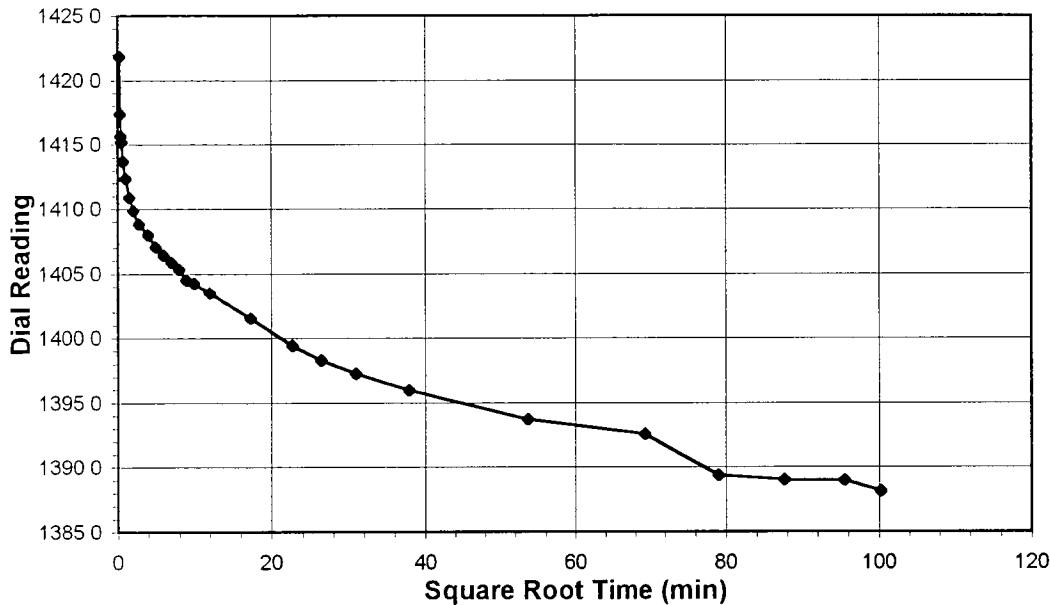
Tested By *JRB* Date *11/23/04* Checked By *JM* Date *3-2-05*

# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

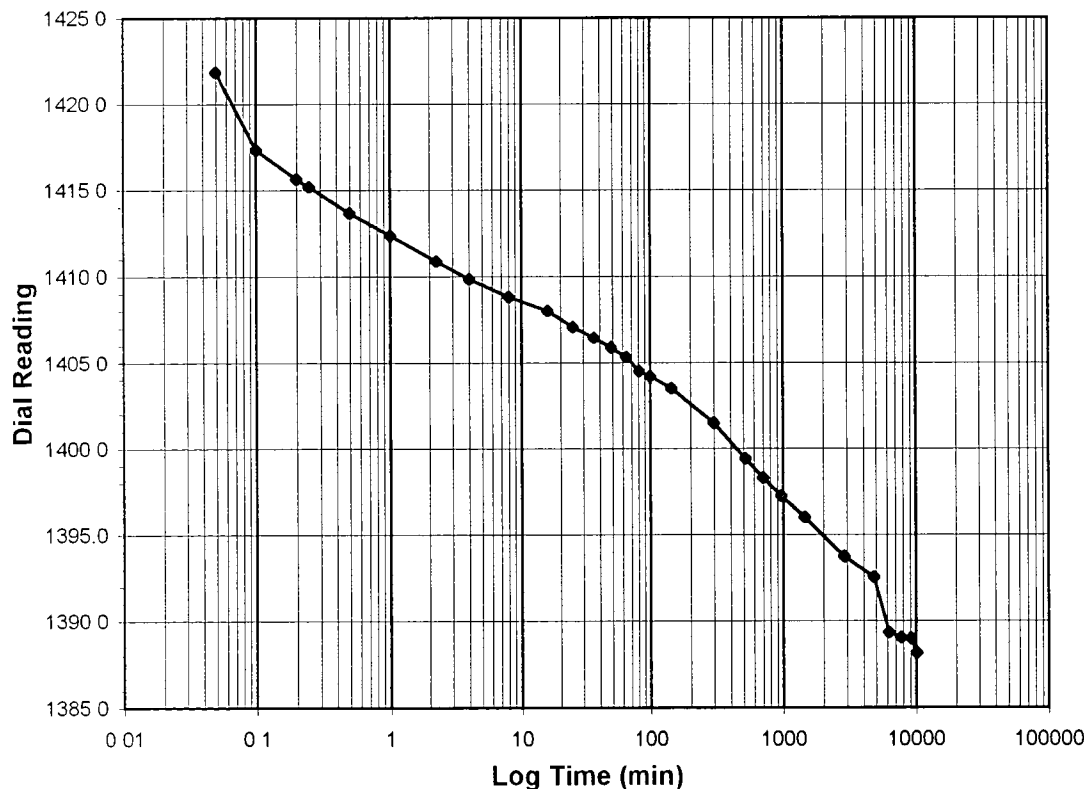
Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PFP-33
Lab ID	2004-221-03-02	Visual Description	BROWN STABILIZED MATERIAL

**Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED**



<b>Test Load</b>	(tsf)	<b>1.0-0.25</b>
<b>Final Reading</b>	(div)	<b>1388.2</b>
Consolidometer No.		5
1 Division	(in)	0.0001
<b>Start Date</b>		<b>11/29/04</b>
<b>Start Time</b>		<b>8:51:35</b>

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>1421.8</b>
0.05	1421.8
0.10	1417.4
0.20	1415.6
0.25	1415.2
0.50	1413.7
1.00	1412.4
2.25	1410.9
4.00	1409.9
8.00	1408.8
16.00	1408.0
25.00	1407.1
36.00	1406.4
49.00	1405.9
64.00	1405.3
81.00	1404.5
100.00	1404.2
144.00	1403.5
300.00	1401.5
520.00	1399.4
700.00	1398.3
960.00	1397.2
1440.00	1396.0
2880.00	1393.7
4811.65	1392.6
6251.63	1389.4
7691.63	1389.0
9131.63	1389.0
10056.98	1388.2



Tested By JRB Date 11/29/04 Checked By TM Date 3-2-05

**UNCONFINED COMPRESSIVE STRENGTH**  
ASTM D2166-00 (SOP S-30)



Client BLASLAND, BOUCK, AND LEE  
 Client Reference GEHR TREATABILITY 204.302  
 Project No. 2004-221-03  
 Lab ID 2004-221-03-03

Boring No. NA  
 Depth (ft) NA  
 Sample No. PFP-35  
 Visual BROWN STABILIZED SLUDGE

INITIAL SAMPLE DIMENSIONS			
Length 1(in)	3.773	Top Dia (in)	1.995
Length 2(in)	3.774	Mid. Dia. (in)	2.004
Length 3(in)	3.776	Bot. Dia. (in)	2.060
Avg.Length(in)	3.774	Area (in.^2)	3.204

WATER CONTENT AFTER TEST	
Tare No.	689
Wt. Tare + WS.(gms)	160.63
Wt. Tare + DS (gms)	135.33
Wt. of Tare(gms)	96.92
% Moisture	65.87

UNIT WEIGHT			
Wt. Tube & WS.(gms.)	298.7	Sample Volume(cc.)	198.1
Wt. Of Tube(gms.)	0 0	Unit Wet Wt.(gms/cc)	1.51
Wt. Of WS.(gms.)	298.66	Unit Wet Wt.(pcf)	94 05
Diameter (in.)	2.02	Moisture Content, %	65.87
Length (in)	3.77	Unit Dry Wt.(pcf.)	56 70
Length (cm.)	9.59		

DEFORMATION (in)	LOAD (lbs)	ELAPSED TIME (min.)	STRAIN (%)	STRESS (psi)
0.000	1.0	0.00	0.00	0.00
0.002	2.5	0.05	0.04	0.47
0.004	3.9	0.10	0.10	0.91
0.007	6.0	0.20	0.20	1.57
0.013	8.7	0.37	0.34	2.39
0.021	11.8	0.57	0.55	3.35
0.030	15.6	0.82	0.80	4.54
0.038	18.3	1.02	1.00	5.35
0.049	22.2	1.32	1.30	6.52
0.064	26.9	1.72	1.70	7.94
0.079	30.9	2.12	2.10	9.15
0.102	36.4	2.72	2.71	10.76
0.117	39.7	3.12	3.10	11.69
0.147	45.9	3.92	3.90	13.46
0.178	51.7	4.72	4.71	15.08
0.209	57.0	5.53	5.52	16.51
0.228	59.8	6.03	6.03	17.25
0.265	64.7	7.03	7.03	18.49
0.284	66.8	7.53	7.53	18.98
0.322	64.3	8.53	8.53	18.07
0.360	48.3	9.53	9.53	13.35
0.416	11.7	11.03	11.03	2.99
0.473	7.6	12.55	12.54	1.81
0.549	10.5	14.55	14.54	2.53

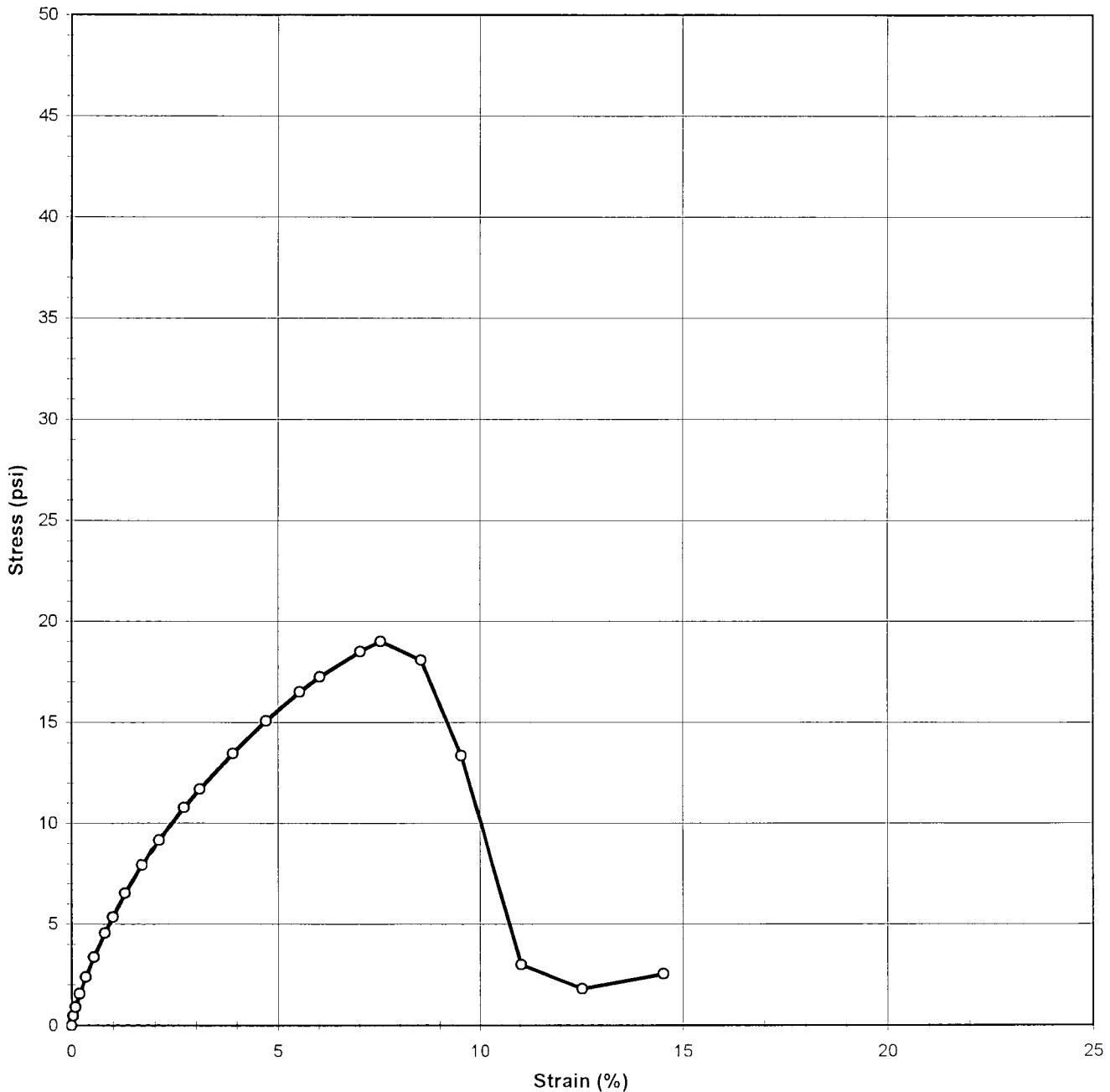
Tested By JCM

Date 09/17/04 Input Checked By *OK*

Date 9-21-04

**UNCONFINED COMPRESSIVE STRENGTH**  
ASTM D2166-00 (SOP S-30)

Client	BLASLAND, BOUCK, AND LEE	Boring No.	NA
Client Reference	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PFP-35
Lab ID	2004-221-03-03	Visual	BROWN STABILIZED SLUDGE



Tested By JCM

Date 09/17/04 Approved By

*DB*

Date 9/21/04

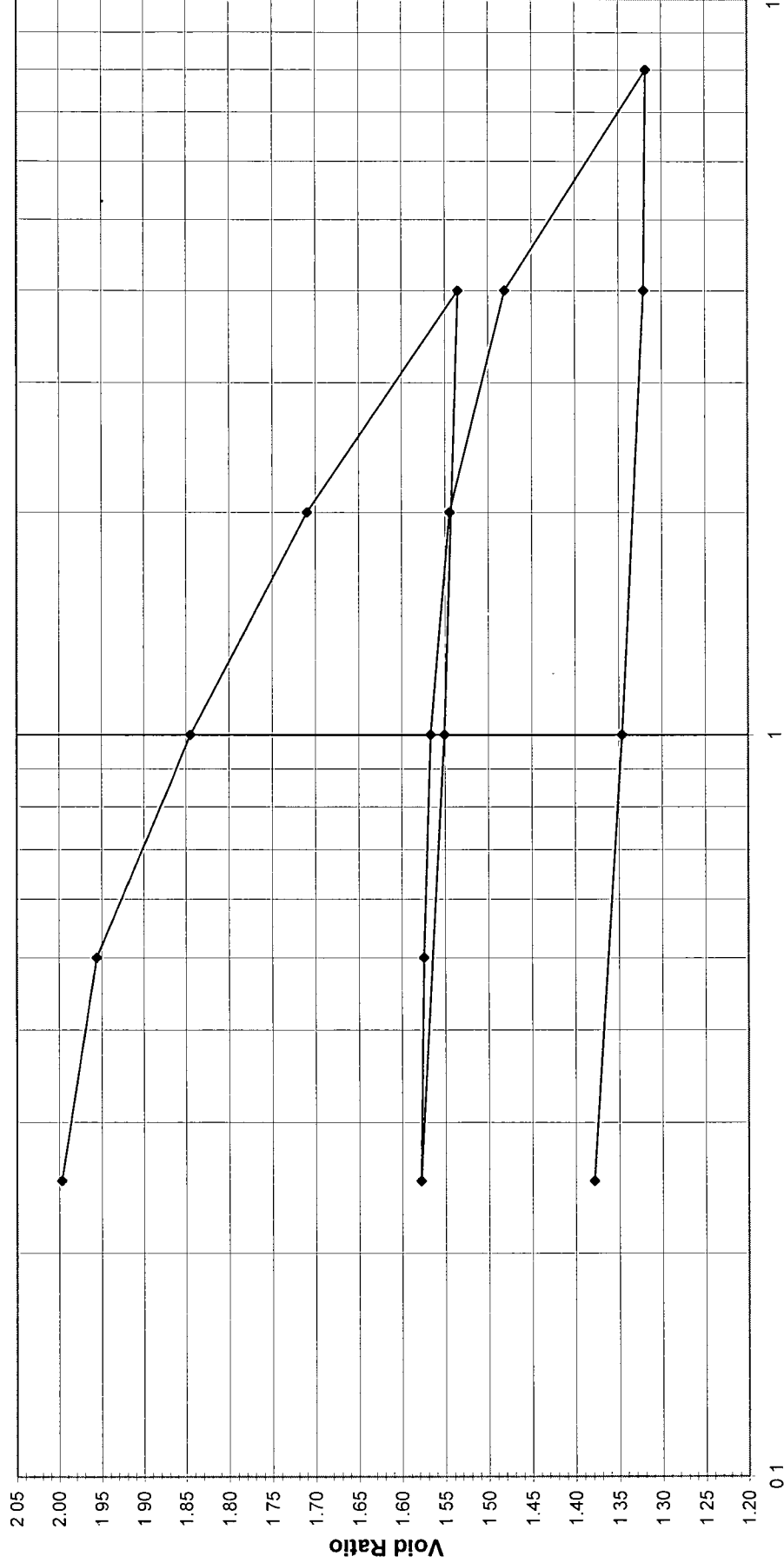


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Reference	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PFP-35
Lab ID	2004-221-03-03	Visual Description	BROWN STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Log P (tsf)

Tested By MPS Date 10/27/04 Approved By *DB* Date 3/2/05



# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Reference	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PPF-35
Lab ID	2004-221-03-03	Visual Description	BROWN STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED

**Consolidometer No.** 6

**1 Division** = 0.0001 (in)

**Sample Properties**

**Test Data Summary**

Sample Properties		Initial	Final	Test Data Summary							
				Applied Pressure (tsf)	Final Reading (div)	Machine Deflection (div)	Corrected Reading (div)	Height of Sample (mm)	Volume (cc)	Dry Density (g/cc)	Void Ratio
<i>Water Content</i>			Z-12	Seating	0	0	0	25.400	80.440	0.88747	2.04235
Tare Number		A	205.40	0.25	161.3	12.1	149.2	25.021	79.240	0.90091	1.99696
Wt. Tare & WS (gm)			170.01	0.5	308.2	23.2	285.0	24.676	78.147	0.91351	1.95565
Wt. Tare & DS (gm)			35.39	1	690.2	39.8	650.4	23.748	75.208	0.94921	1.84448
Wt. Water (gm)			100.00	2	1153.4	59.5	1093.9	22.621	71.641	0.99648	1.70955
Wt. Tare (gm)			70.01	4	1749.6	81.2	1668.4	21.162	67.019	1.06519	1.53477
Wt. DS (gm)			50.55	1	1671.4	54.9	1616.5	21.294	67.437	1.05859	1.55056
Water Content (%)				0.25	1556.5	30.3	1526.2	21.523	68.163	1.04731	1.57803
<i>Sample Parameters</i>				0.5	1573.3	35.6	1537.7	21.494	68.071	1.04873	1.57453
Sample Diameter (in)		2.5	2.5	1	1611.9	47.4	1564.5	21.426	67.855	1.05207	1.56638
Sample Height (in)		1.000	0.782	2	1700.1	63.5	1636.6	21.243	67.275	1.06114	1.54444
Sample Volume (cc)		80.44	62.89	4	1927.5	81.7	1845.8	20.712	65.592	1.08836	1.48080
Wt. Wet Sample + Ring (gm)		331.70	318.75	8	2483.6	103.3	2380.3	19.354	61.293	1.16471	1.31818
Wt. of Ring (gm)		211.28	211.28	4	2446.3	74.2	2372.1	19.375	61.359	1.16345	1.32068
Wt. of Wet Sample (gm)		120.42	107.47	1	2322.6	34.2	2288.4	19.587	62.032	1.15083	1.34614
Wet Density (pcf)		93.41	106.64	0.25	2200.2	18.4	2181.8	19.858	62.889	1.13514	1.37856
Wet Density (g/cc)		1.50	1.71								
Water Content (%)		68.68	50.55								
Wt. of Dry Sample (gm)		71.39	71.39								
Dry Density (pcf)		55.38	70.83								
Dry Density (g/cc)		0.89	1.14								
Void Ratio		2.0424	1.3786								
Saturation (%)		90.80	99.01								
Specific Gravity		2.70	Assumed								

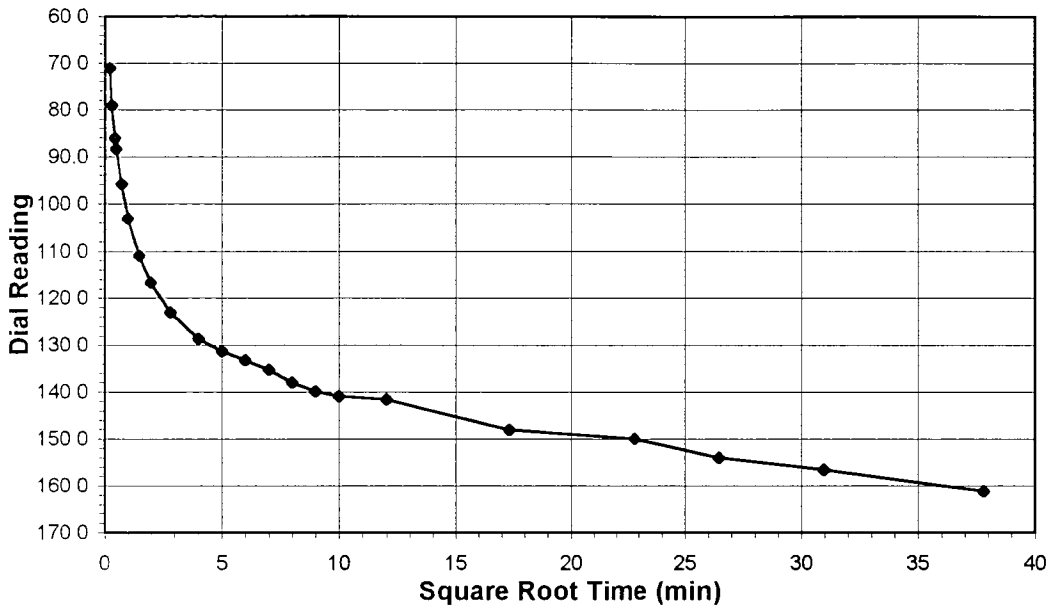
Tested By MPS Date 10/27/04 Input Checked By JM Date 3-3-05

# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

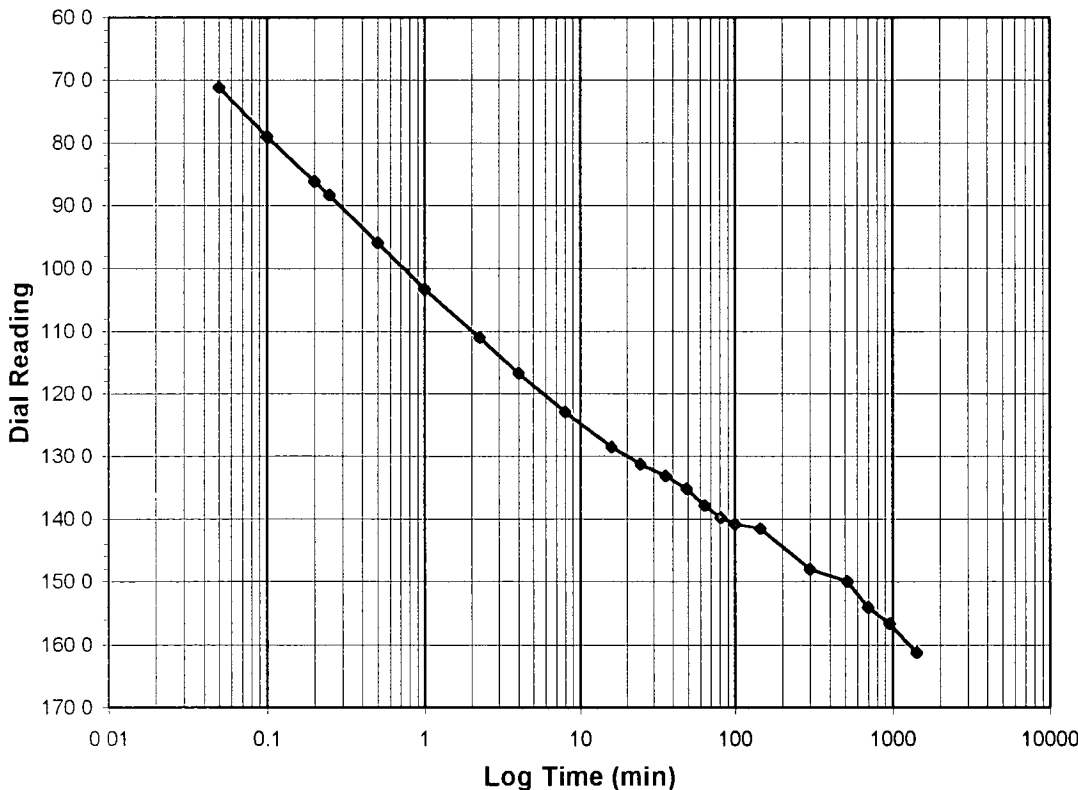
Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PPF-35
Lab ID	2004-221-03-03	Visual Description	BROWN STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



<b>Test Load (tsf)</b>	<b>0-0.25</b>
<b>Final Reading (div)</b>	<b>161.3</b>
Consolidometer No.	6
1 Division (in)	0.0001
<b>Start Date</b>	<b>10/27/04</b>
<b>Start Time</b>	<b>17:03:48</b>

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>0.0</b>
0.05	71.1
0.10	79.1
0.20	86.2
0.25	88.4
0.50	95.9
1.00	103.2
2.25	111.0
4.00	116.8
8.00	123.0
16.00	128.6
25.00	131.3
36.00	133.2
49.00	135.3
64.00	137.9
81.00	139.9
100.00	140.9
144.00	141.6
300.00	148.1
520.00	149.9
700.00	154.0
960.00	156.6
1429.62	161.3



Tested By **MPS** Date **10/27/04** Checked By **TM** Date **3-3-05**

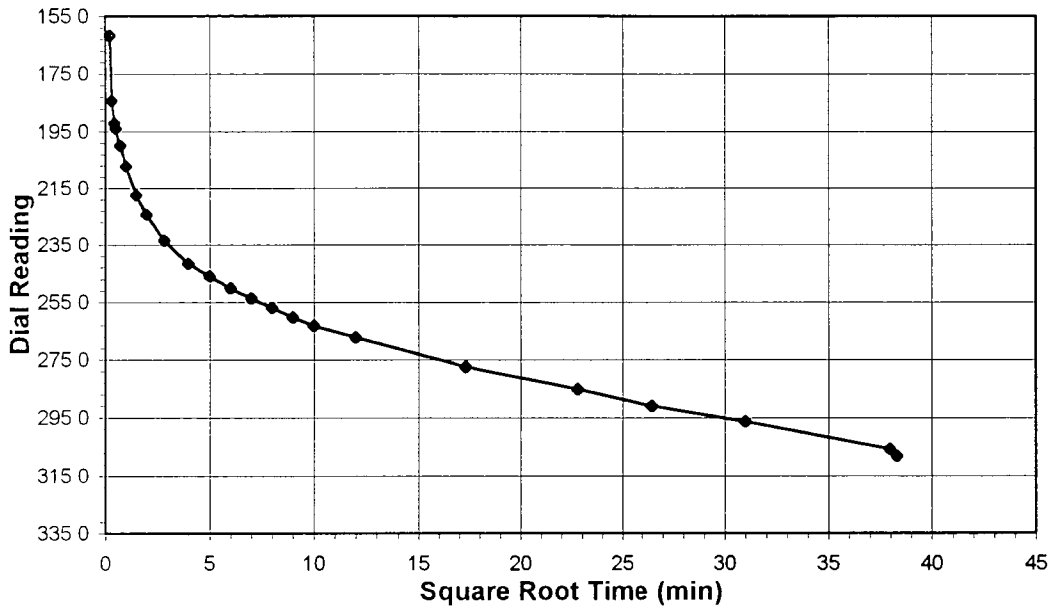


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

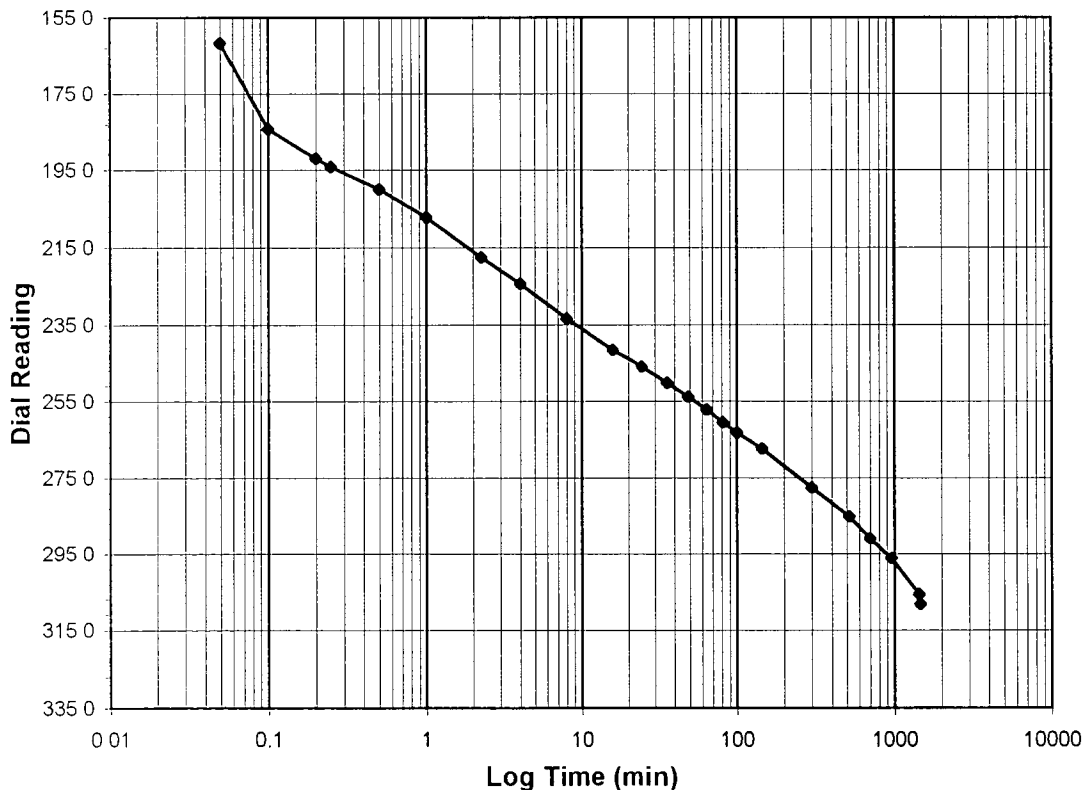
Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PFP-35
Lab ID	2004-221-03-03	Visual Description	BROWN STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



<b>Test Load</b>	(tsf)	<b>0.25-0.5</b>
<b>Final Reading</b>	(div)	<b>308.2</b>
Consolidometer No.		6
1 Division	(in)	0.0001
<b>Start Date</b>		<b>10/28/04</b>
<b>Start Time</b>		<b>17:03:55</b>

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>161.3</b>
0.05	161.7
0.10	184.2
0.20	192.0
0.25	194.1
0.50	200.0
1.00	207.1
2.25	217.5
4.00	224.3
8.00	233.4
16.00	241.5
25.00	246.0
36.00	250.2
49.00	253.8
64.00	257.1
81.00	260.4
100.00	263.2
144.00	267.3
300.00	277.5
520.00	285.2
700.00	291.0
960.00	296.3
1440.00	305.8
1467.15	308.2



Tested By *MPS* Date *10/28/04* Checked By *Tm* Date *3-3-05*

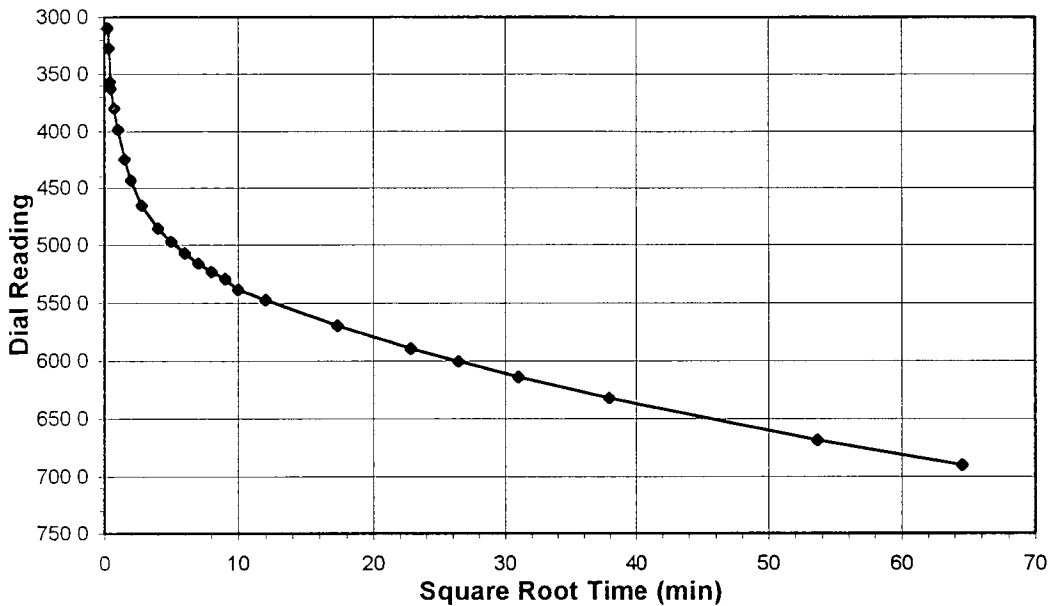


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PFP-35
Lab ID	2004-221-03-03	Visual Description	BROWN STABILIZED MATERIAL

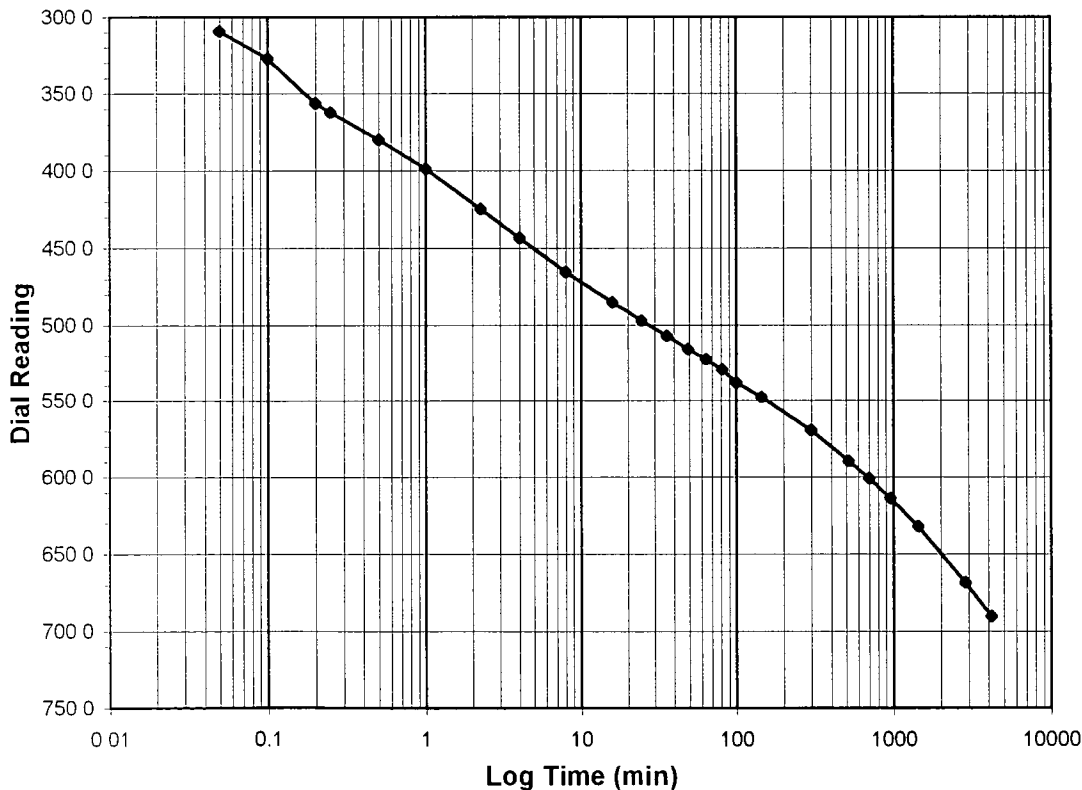
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.5-1.0
Final Reading (div)	690.2
Consolidometer No.	6
1 Division (in)	0.0001

Start Date	10/29/04
Start Time	17:32:43

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>308.2</b>
0.05	309.3
0.10	327.1
0.20	356.5
0.25	362.4
0.50	379.7
1.00	398.5
2.25	424.6
4.00	443.4
8.00	465.5
16.00	485.2
25.00	497.2
36.00	507.2
49.00	515.8
64.00	522.9
81.00	529.4
100.00	538.3
144.00	547.7
300.00	569.4
520.00	589.4
700.00	600.7
960.00	613.7
1440.00	632.4
2880.00	668.4
4172.10	690.2



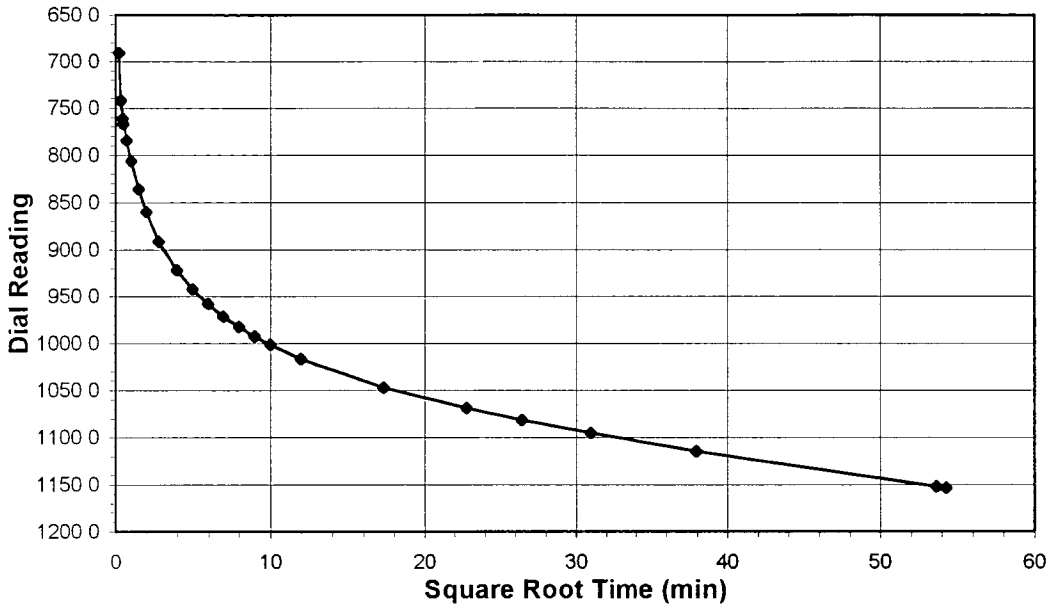
Tested By MPS Date 10/29/04 Checked By TM Date 3-3-05

# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PFP-35
Lab ID	2004-221-03-03	Visual Description	BROWN STABILIZED MATERIAL

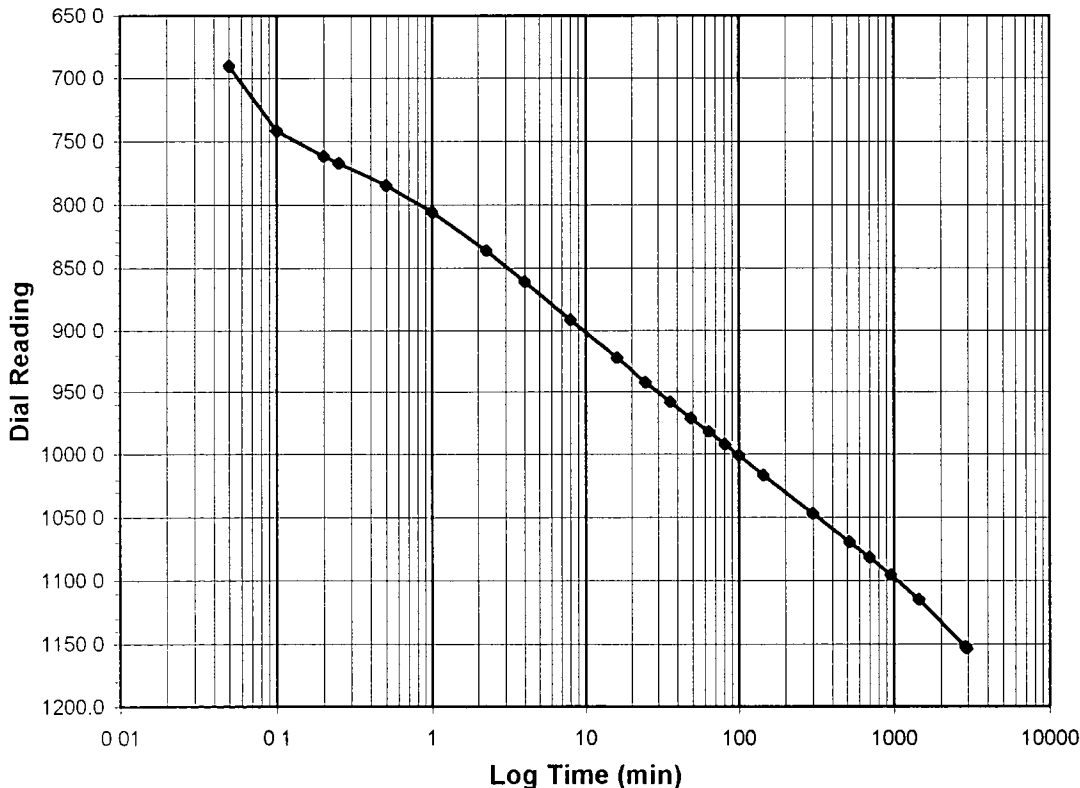
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



<b>Test Load</b>	(tsf)	1.0-2.0
<b>Final Reading</b>	(div)	1153.4
Consolidometer No.		6
1 Division	(in)	0.0001

Start Date	11/1/04
Start Time	15:12:45

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>690.2</b>
0.05	690.4
0.10	741.8
0.20	761.7
0.25	767.2
0.50	784.9
1.00	806.0
2.25	836.3
4.00	860.7
8.00	891.7
16.00	922.0
25.00	942.0
36.00	957.9
49.00	971.0
64.00	982.1
81.00	992.2
100.00	1001.0
144.00	1016.5
300.00	1046.9
520.00	1069.0
700.00	1081.5
960.00	1095.1
1440.00	1114.7
2880.00	1152.0
2946.87	1153.4



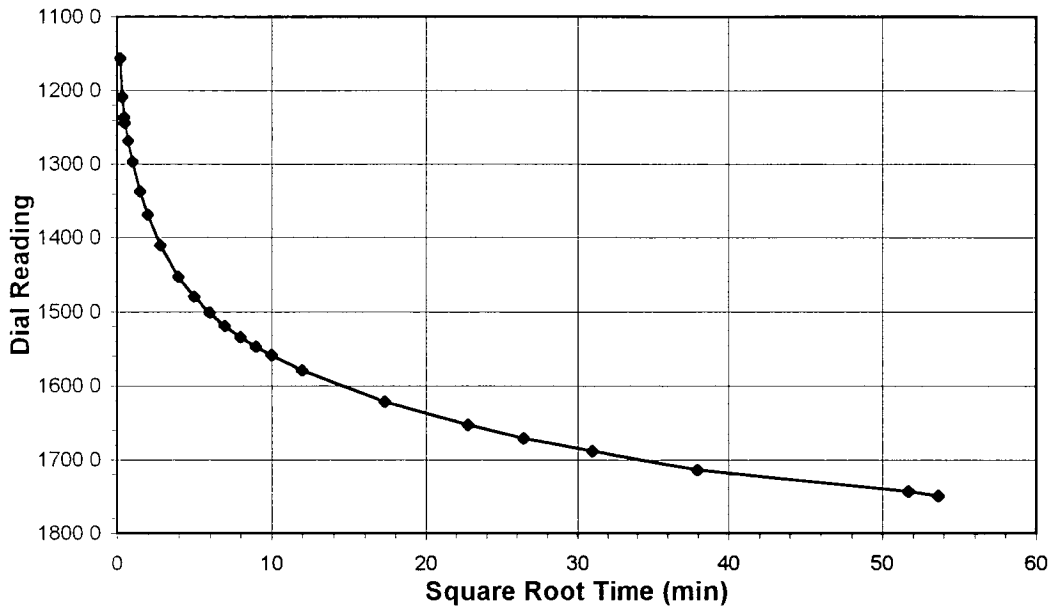
Tested By *MPS* Date *11/1/04* Checked By *TM* Date *3-3-05*

# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

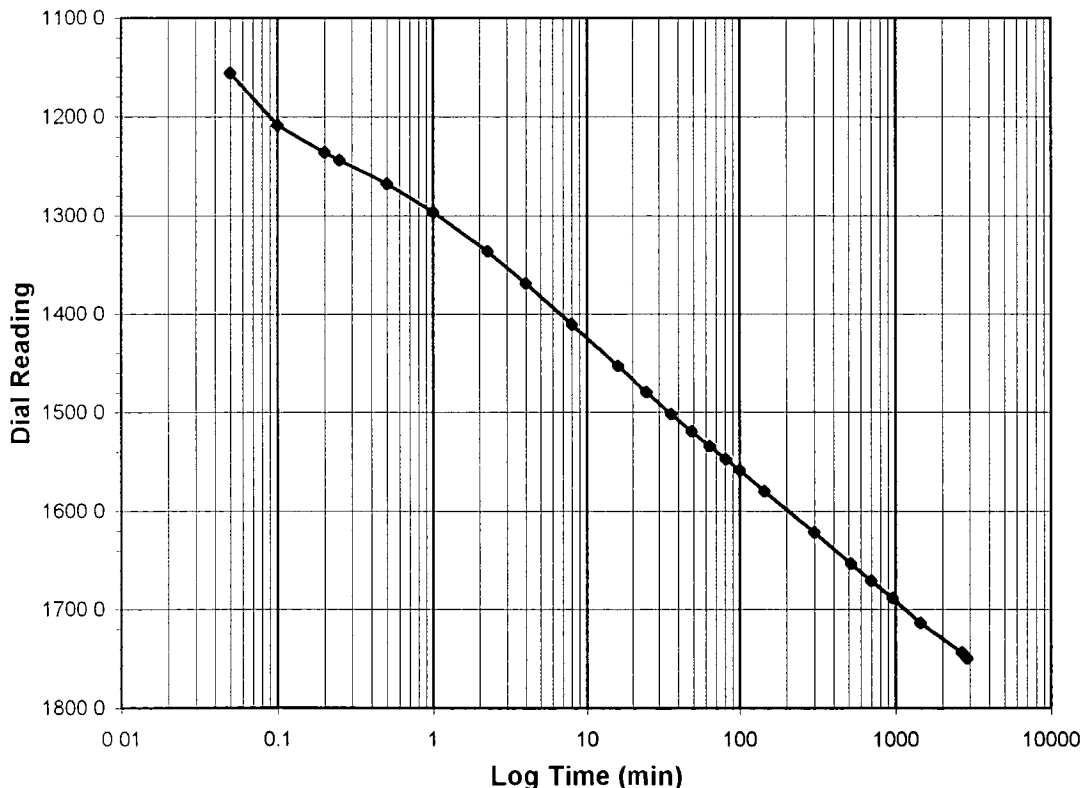
Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PFP-35
Lab ID	2004-221-03-03	Visual Description	BROWN STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



<b>Test Load</b>	(tsf)	<b>2.0-4.0</b>
<b>Final Reading</b>	(div)	<b>1749.6</b>
Consolidometer No.		6
1 Division	(in)	0.0001
Start Date		11/3/04
Start Time		16:22:54

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>1153.4</b>
0.05	1155.7
0.10	1208.3
0.20	1235.6
0.25	1243.7
0.50	1267.9
1.00	1296.6
2.25	1336.5
4.00	1368.8
8.00	1410.4
16.00	1452.6
25.00	1479.8
36.00	1501.4
49.00	1519.1
64.00	1534.4
81.00	1547.3
100.00	1558.5
144.00	1579.5
300.00	1621.3
520.00	1653.0
700.00	1670.8
960.00	1688.5
1440.00	1713.6
2673.40	1743.2
2880.00	1749.6



Tested By **MPS** Date **11/3/04** Checked By **Tm** Date **3-3-05**

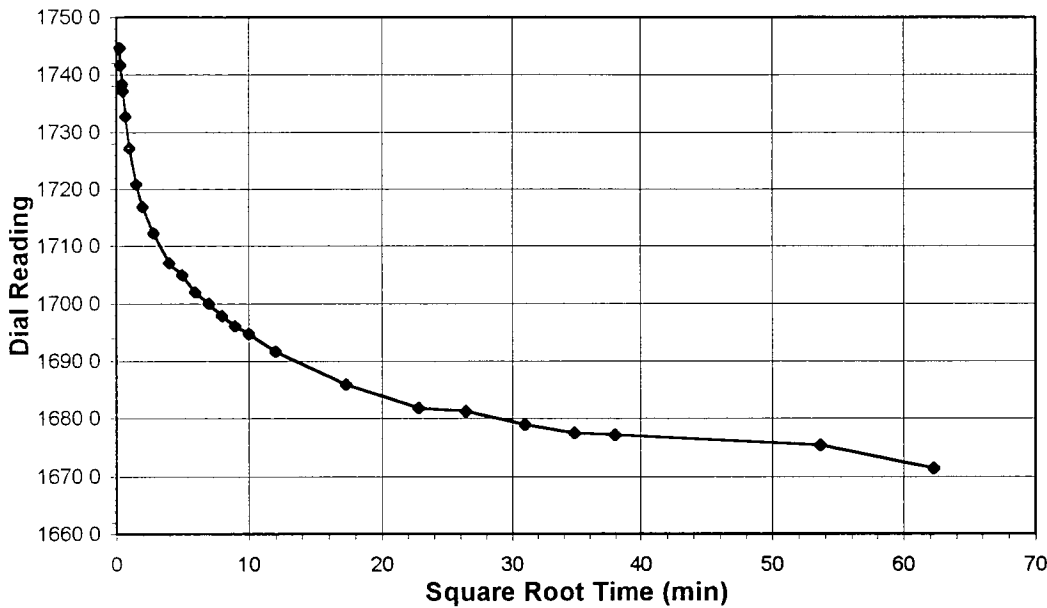


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

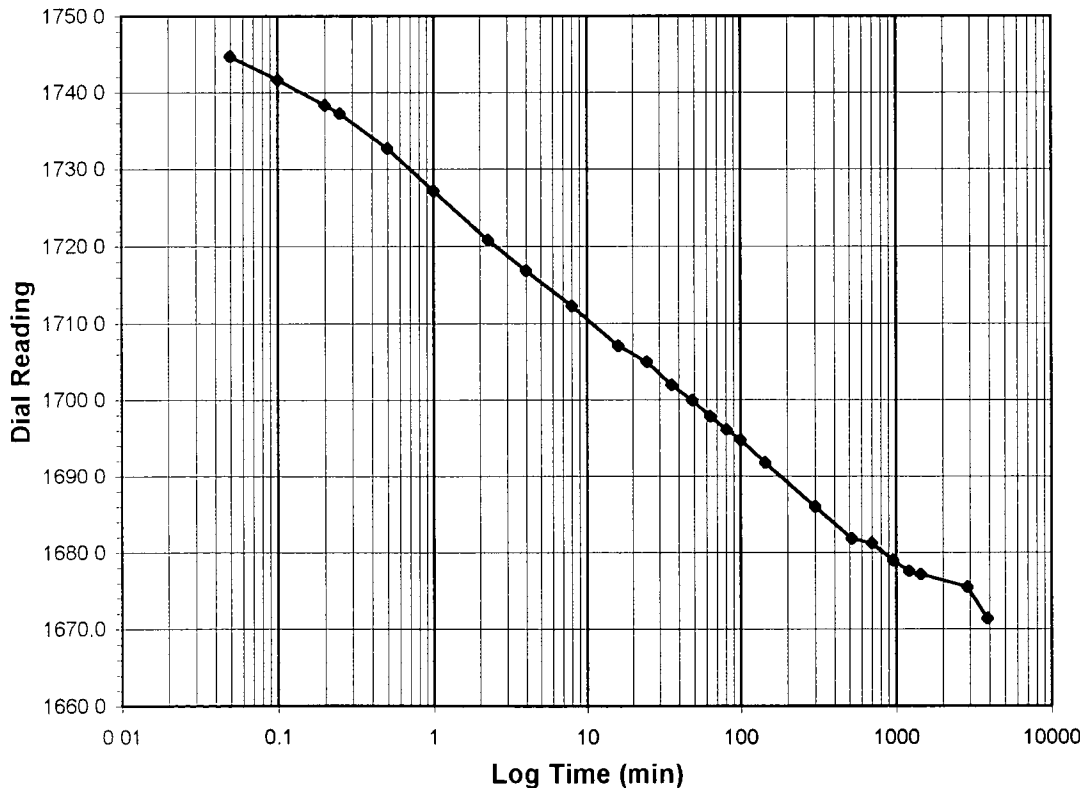
Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PFP-35
Lab ID	2004-221-03-03	Visual Description	BROWN STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	4.0-1.0
Final Reading (div)	1671.4
Consolidometer No.	6
1 Division (in)	0.0001
Start Date	11/5/04
Start Time	16:52:51

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>1749.6</b>
0.05	1744.7
0.10	1741.7
0.20	1738.3
0.25	1737.2
0.50	1732.7
1.00	1727.2
2.25	1720.9
4.00	1716.9
8.00	1712.2
16.00	1707.1
25.00	1704.9
36.00	1702.0
49.00	1699.9
64.00	1697.8
81.00	1696.1
100.00	1694.7
144.00	1691.7
300.00	1686.0
520.00	1681.8
700.00	1681.2
960.00	1679.0
1211.42	1677.5
1440.00	1677.1
2880.00	1675.4
3883.22	1671.4



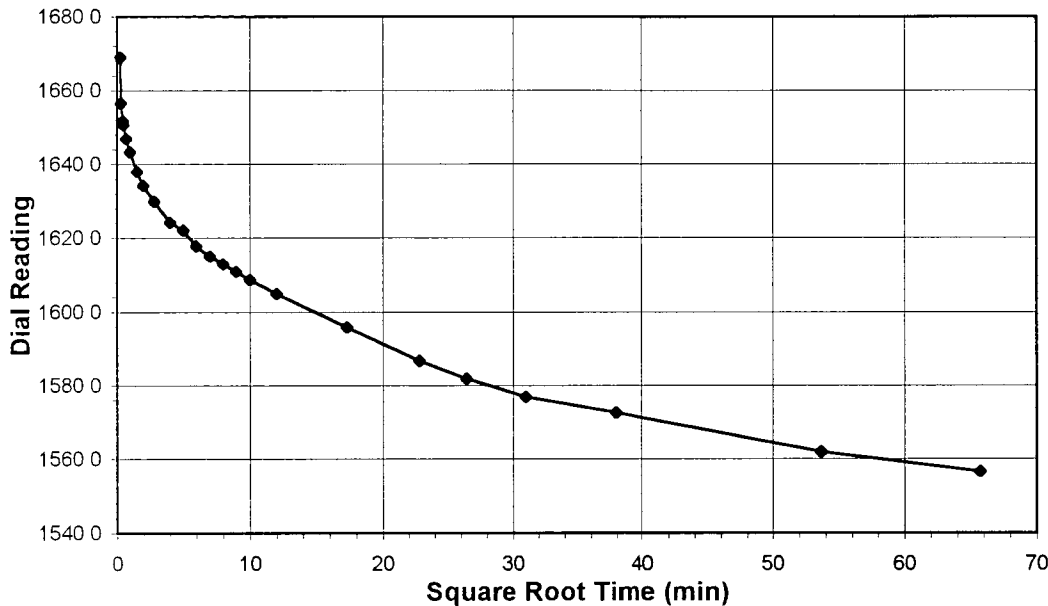
Tested By MPS Date 11/5/04 Checked By TM Date 3-3-05

# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

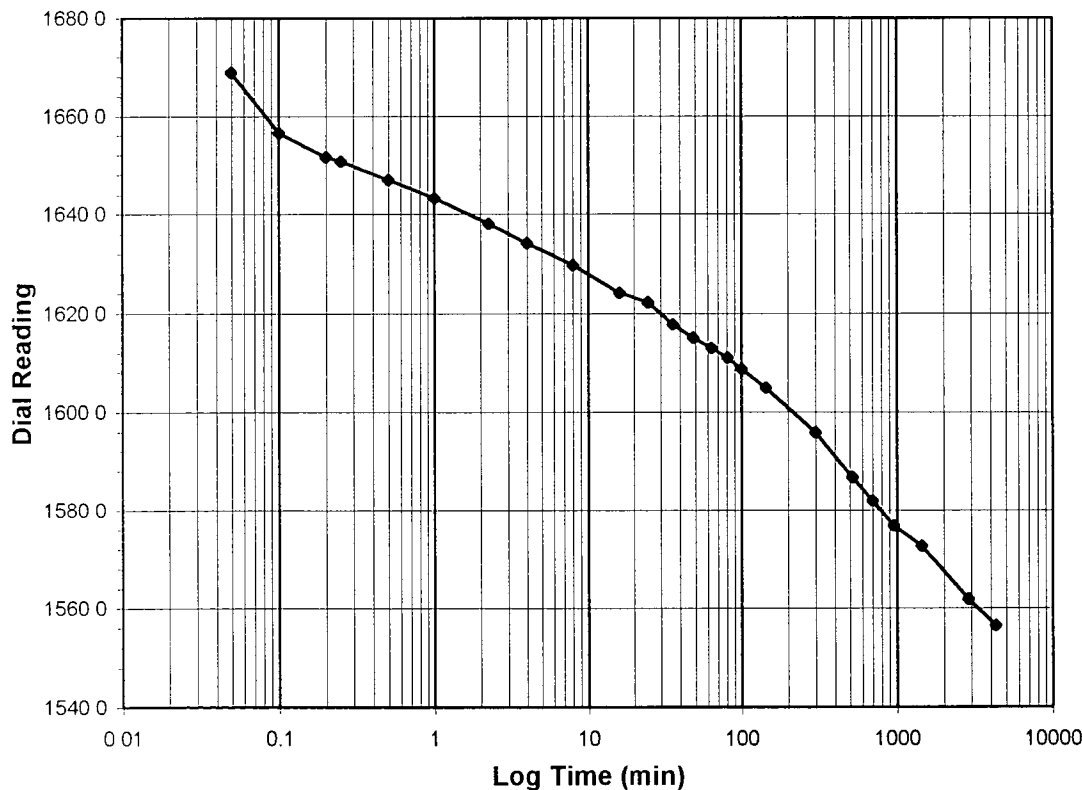
Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PFP-35
Lab ID	2004-221-03-03	Visual Description	BROWN STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	1.0-0.25
Final Reading (div)	1556.5
Consolidometer No.	6
1 Division (in)	0.0001
Start Date	11/8/04
Start Time	9:49:03

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>1671.4</b>
0.05	1669.0
0.10	1656.6
0.20	1651.7
0.25	1650.8
0.50	1647.0
1.00	1643.3
2.25	1638.0
4.00	1634.2
8.00	1629.8
16.00	1624.2
25.00	1622.2
36.00	1617.8
49.00	1615.1
64.00	1613.0
81.00	1611.0
100.00	1608.7
144.00	1605.0
300.00	1595.8
520.00	1586.7
700.00	1581.9
960.00	1576.9
1440.00	1572.6
2880.00	1561.9
4320.00	1556.5



Tested By *MPS* Date *11/8/04* Checked By *Tm* Date *3-3-05*

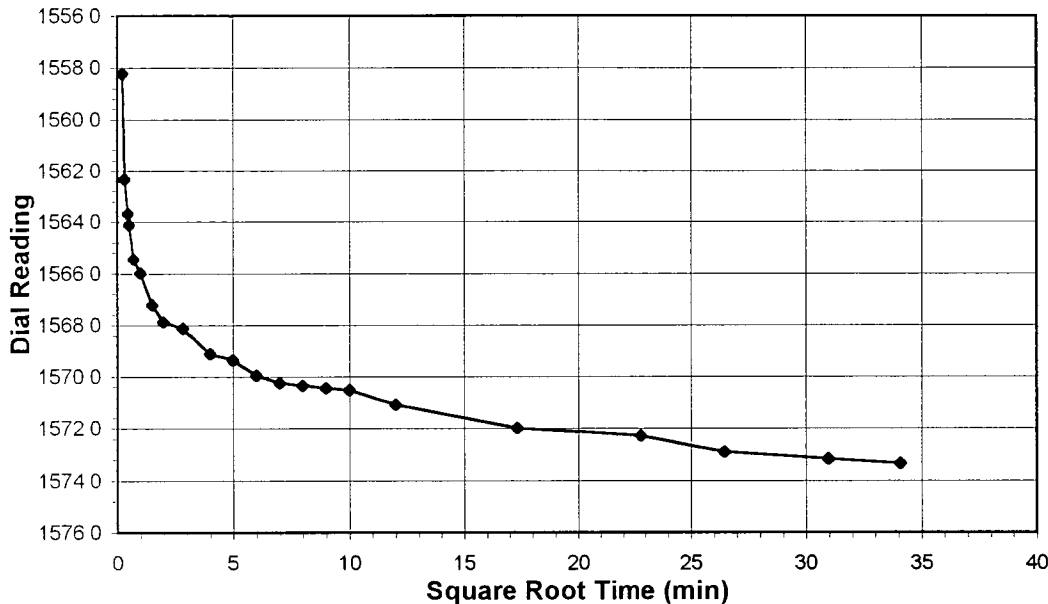


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PFP-35
Lab ID	2004-221-03-03	Visual Description	BROWN STABILIZED MATERIAL

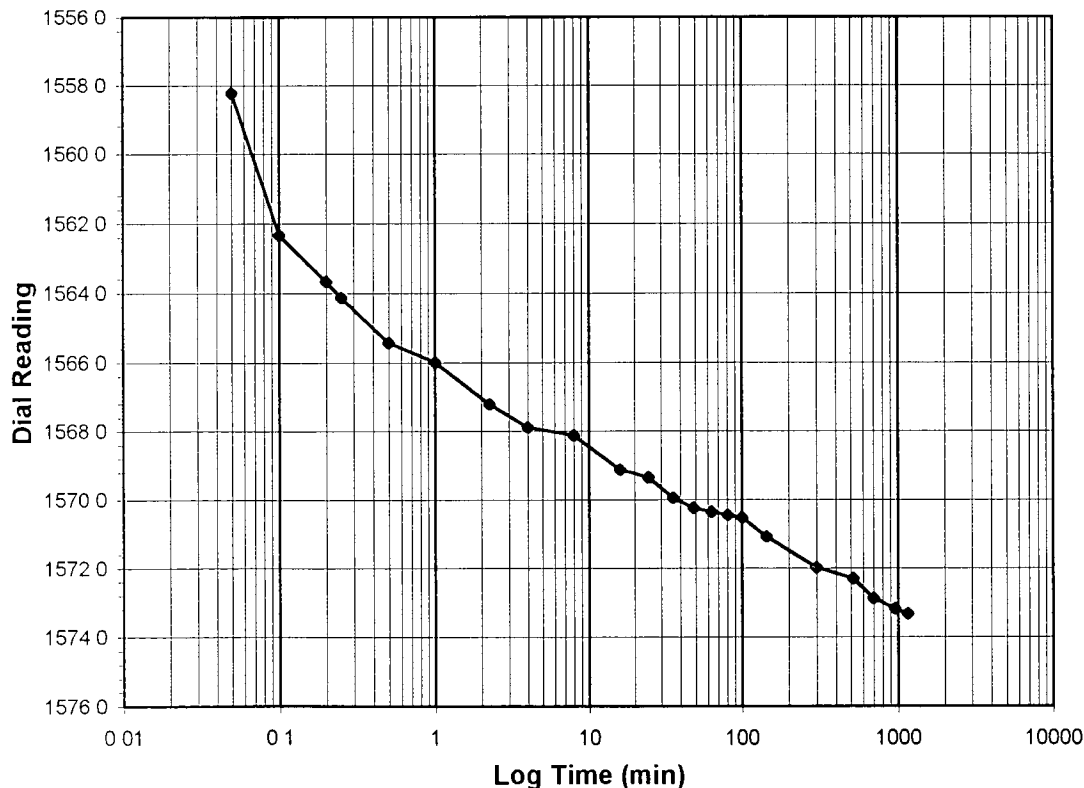
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.25-0.5
Final Reading (div)	1573.3
Consolidometer No.	6
1 Division (in)	0.0001

Start Date	11/11/04
Start Time	14:12:55

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>1556.5</b>
0.05	1558.2
0.10	1562.3
0.20	1563.7
0.25	1564.1
0.50	1565.4
1.00	1566.0
2.25	1567.2
4.00	1567.9
8.00	1568.1
16.00	1569.1
25.00	1569.4
36.00	1569.9
49.00	1570.2
64.00	1570.3
81.00	1570.4
100.00	1570.5
144.00	1571.1
300.00	1572.0
520.00	1572.3
700.00	1572.9
960.00	1573.2
1161.88	1573.3



Tested By MPS Date 11/11/04 Checked By Tm Date 3-3-05

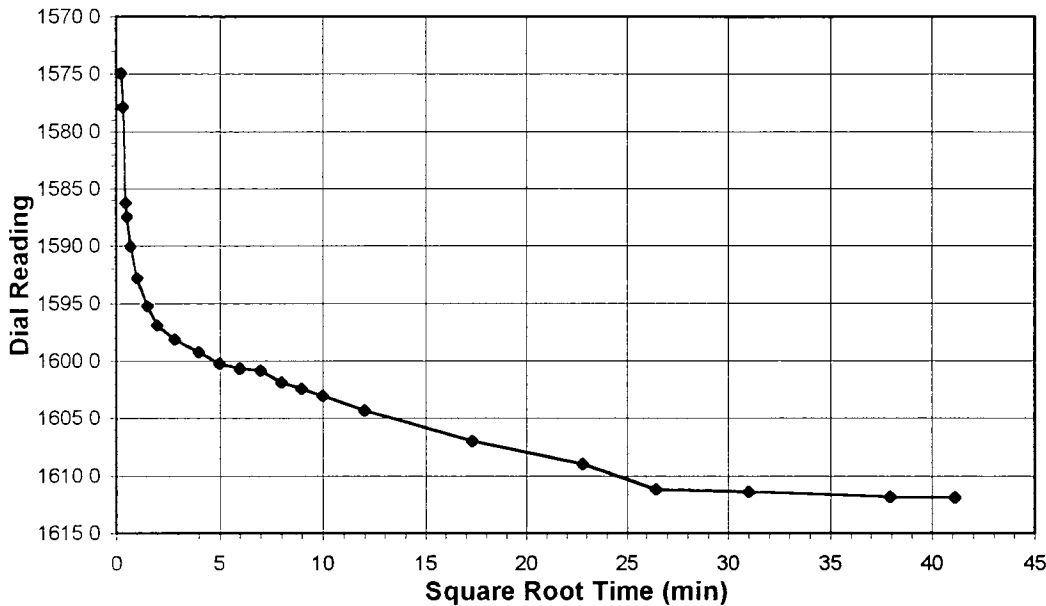


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

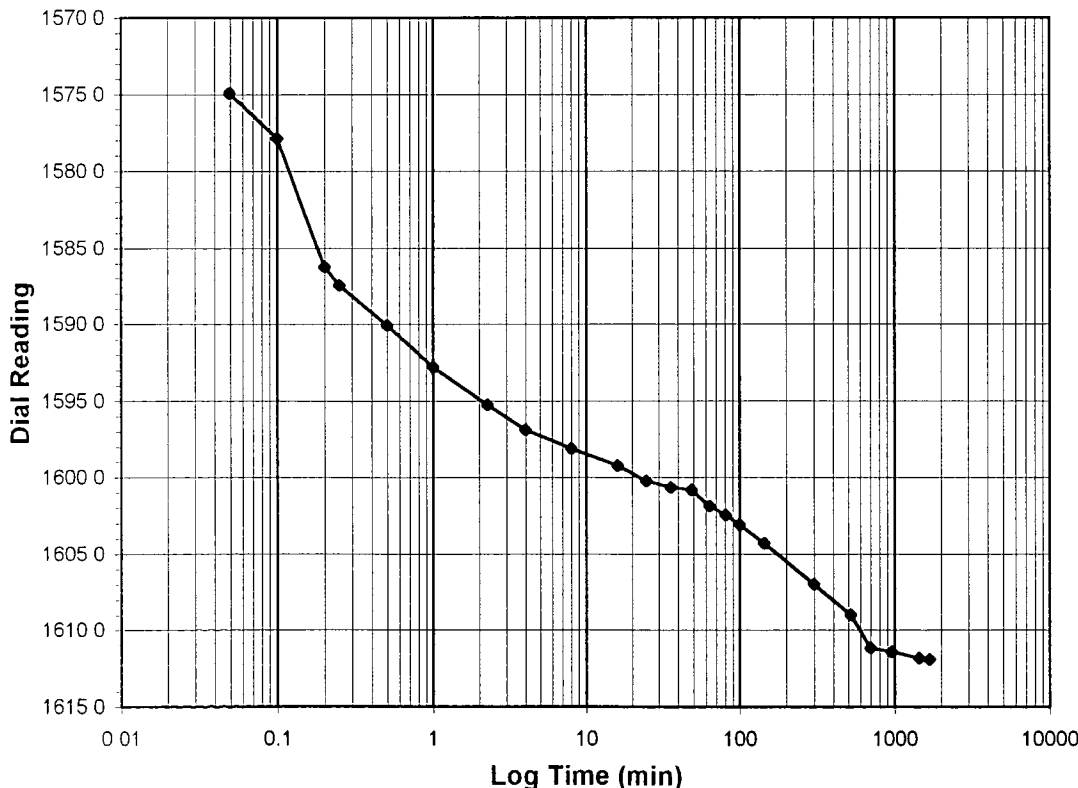
Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PFP-35
Lab ID	2004-221-03-03	Visual Description	BROWN STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.5-1.0
Final Reading (div)	1611.9
Consolidometer No.	6
1 Division (in)	0.0001
Start Date	11/12/04
Start Time	9:47:54

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>1573.3</b>
0.05	1574.9
0.10	1577.9
0.20	1586.2
0.25	1587.4
0.50	1590.1
1.00	1592.8
2.25	1595.2
4.00	1596.9
8.00	1598.1
16.00	1599.2
25.00	1600.2
36.00	1600.6
49.00	1600.8
64.00	1601.9
81.00	1602.4
100.00	1603.1
144.00	1604.3
300.00	1607.0
520.00	1609.0
700.00	1611.2
960.00	1611.4
1440.00	1611.8
1690.07	1611.9



Tested By *MPS* Date *11/12/04* Checked By *Tm* Date *3-3-05*

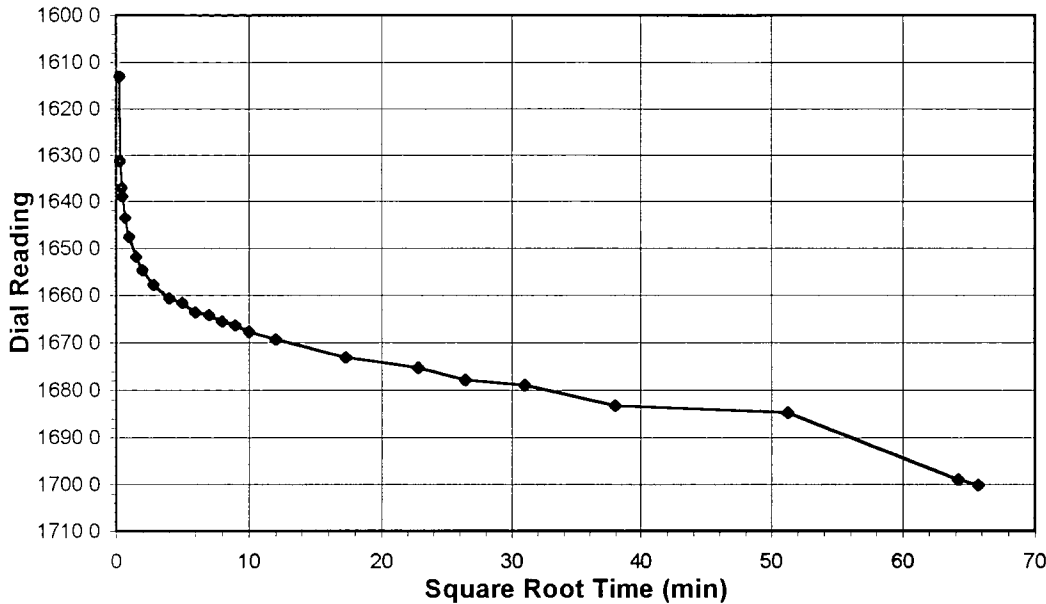


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

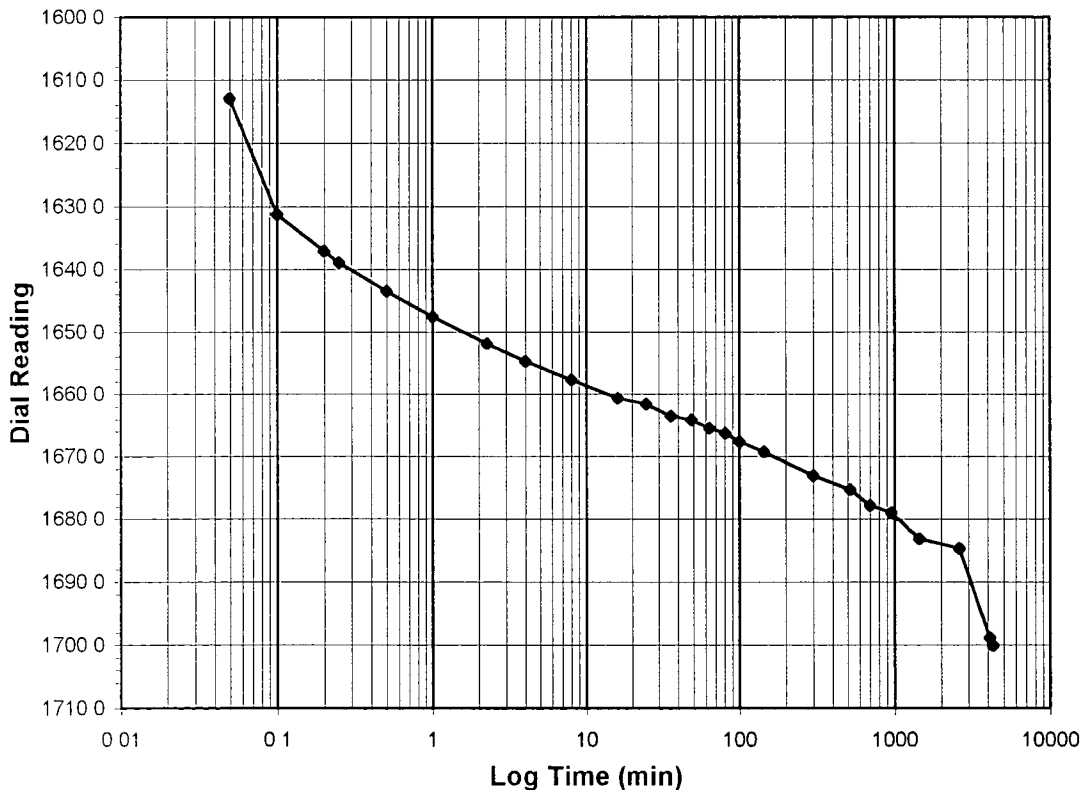
Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PFP-35
Lab ID	2004-221-03-03	Visual Description	BROWN STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	1.0-2.0
Final Reading (div)	1700.1
Consolidometer No.	6
1 Division (in)	0.0001
Start Date	11/13/04
Start Time	14:01:51

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>1611.9</b>
0.05	1613.0
0.10	1631.2
0.20	1637.1
0.25	1639.0
0.50	1643.5
1.00	1647.6
2.25	1651.8
4.00	1654.7
8.00	1657.7
16.00	1660.6
25.00	1661.6
36.00	1663.5
49.00	1664.1
64.00	1665.5
81.00	1666.2
100.00	1667.6
144.00	1669.3
300.00	1673.0
520.00	1675.3
700.00	1677.8
960.00	1678.9
1440.00	1683.2
2628.42	1684.7
4120.52	1698.9
4320.00	1700.1



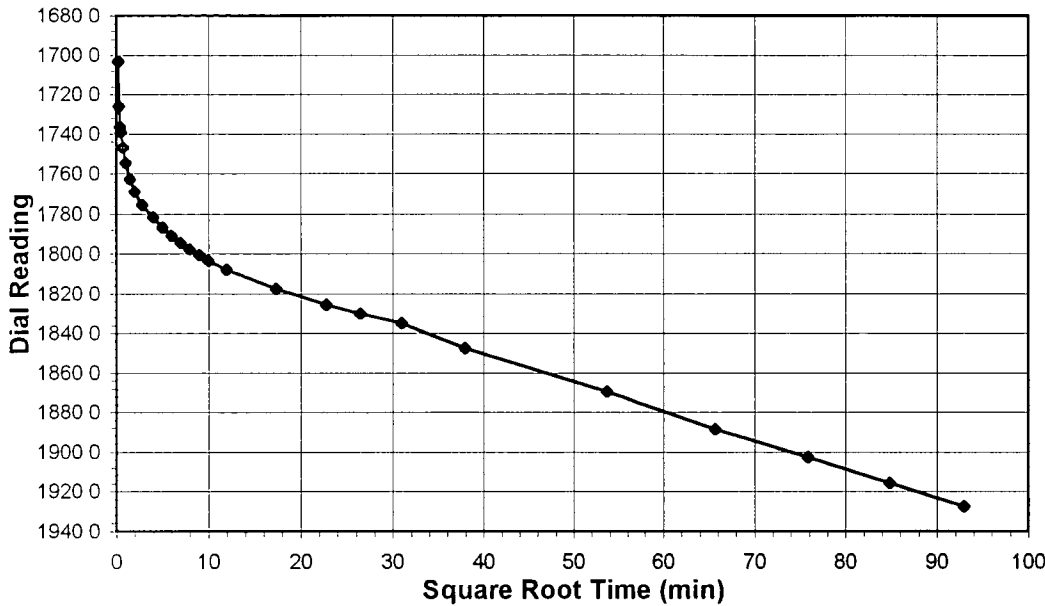
Tested By MPS Date 11/13/04 Checked By TM Date 3-3-05

# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PFP-35
Lab ID	2004-221-03-03	Visual Description	BROWN STABILIZED MATERIAL

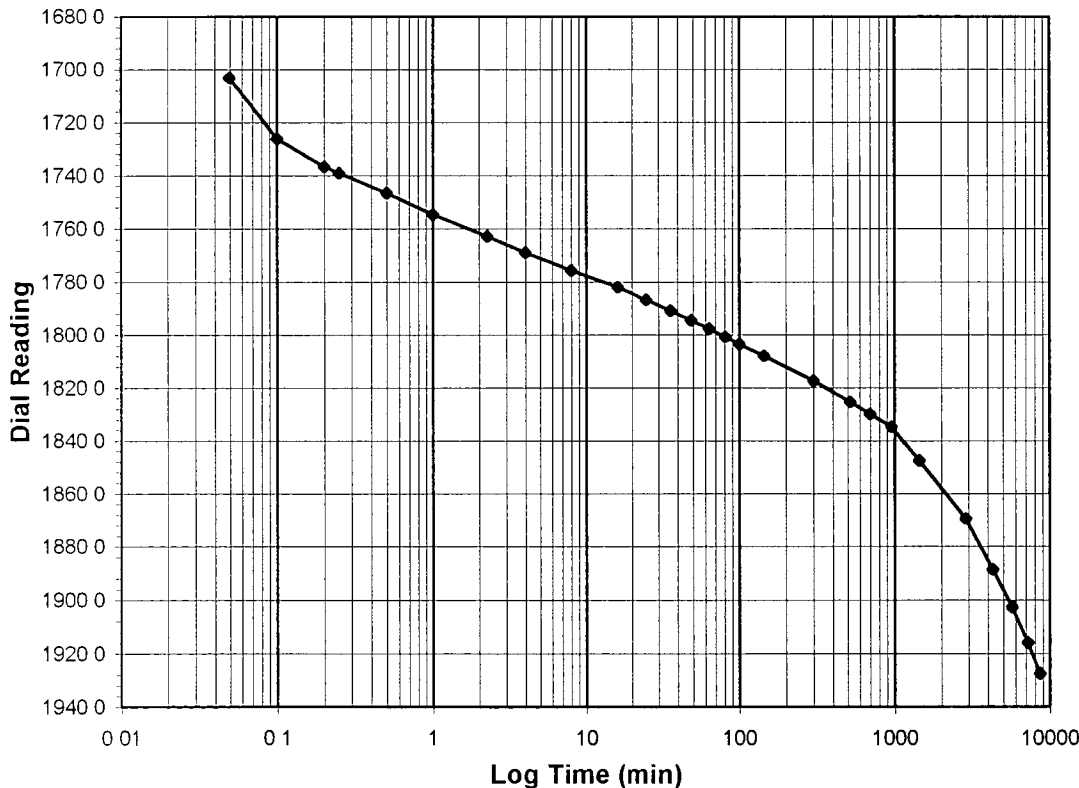
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



<b>Test Load</b>	(tsf)	<b>2.0-4.0</b>
<b>Final Reading</b>	(div)	<b>1927.5</b>
Consolidometer No.		6
1 Division	(in)	0.0001

Start Date	11/16/04
Start Time	18:03:43

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>1700.1</b>
0.05	1703.2
0.10	1726.0
0.20	1736.6
0.25	1739.1
0.50	1746.7
1.00	1754.5
2.25	1762.9
4.00	1768.8
8.00	1775.5
16.00	1781.8
25.00	1786.7
36.00	1790.9
49.00	1794.5
64.00	1797.6
81.00	1800.7
100.00	1803.4
144.00	1807.9
300.00	1817.4
520.00	1825.4
700.00	1829.9
960.00	1834.8
1440.00	1847.5
2880.00	1869.5
4320.00	1888.6
5760.00	1902.5
7200.00	1915.8
8640.00	1927.5



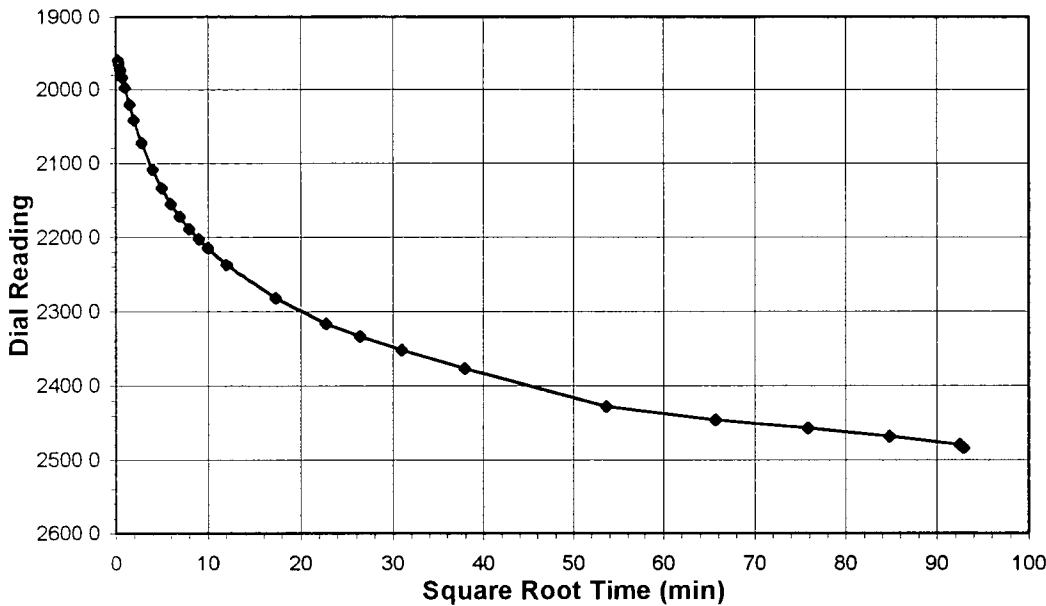
Tested By JRB Date 11/16/04 Checked By Tm Date 3-3-05

# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

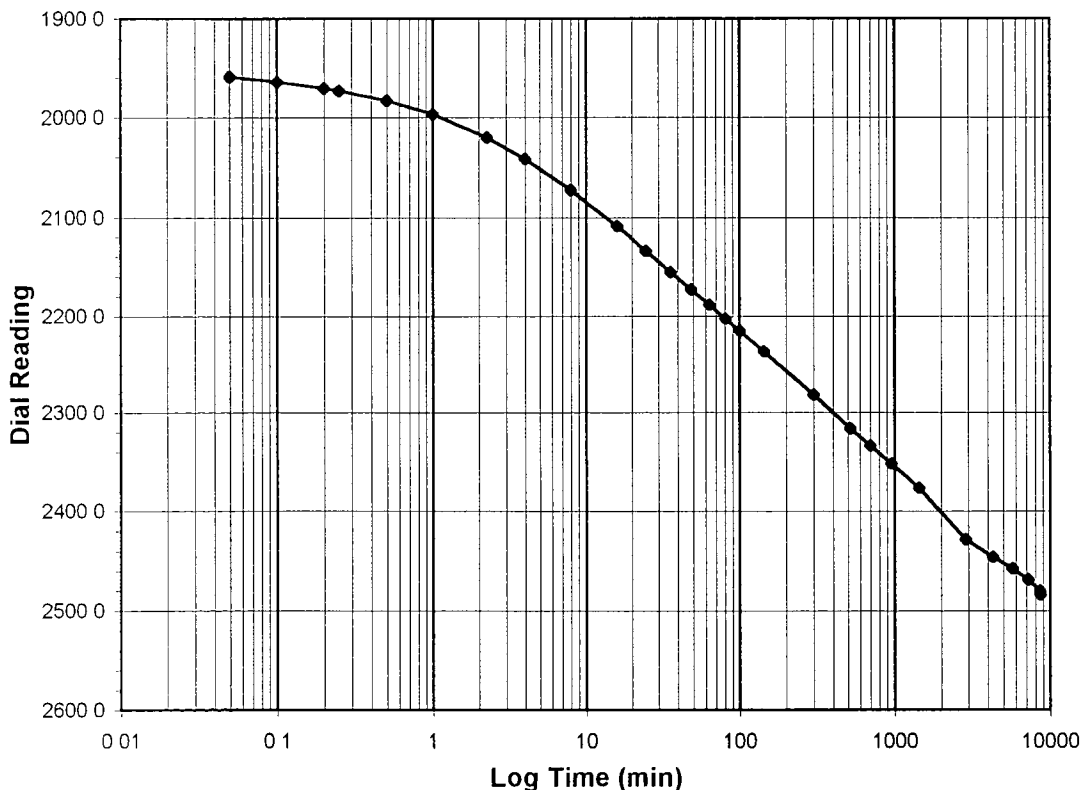
Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PFP-35
Lab ID	2004-221-03-03	Visual Description	BROWN STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



<b>Test Load (tsf)</b>	<b>4.0-8.0</b>
<b>Final Reading (div)</b>	<b>2483.6</b>
Consolidometer No.	6
1 Division (in)	0.0001
<b>Start Date</b>	<b>11/23/04</b>
<b>Start Time</b>	<b>9:56:38</b>

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>1927.5</b>
0.05	1959.4
0.10	1964.6
0.20	1971.0
0.25	1973.4
0.50	1983.5
1.00	1996.9
2.25	2020.2
4.00	2041.7
8.00	2072.9
16.00	2108.6
25.00	2134.1
36.00	2155.4
49.00	2172.9
64.00	2188.6
81.00	2202.6
100.00	2215.1
144.00	2237.0
300.00	2281.7
520.00	2315.9
700.00	2333.2
960.00	2351.8
1440.00	2376.7
2880.00	2428.1
4320.00	2445.9
5760.00	2457.6
7200.00	2468.7
8555.85	2479.9
8640.00	2483.6



Tested By *JRB* Date *11/23/04* Checked By *Tm* Date *3-3-05*

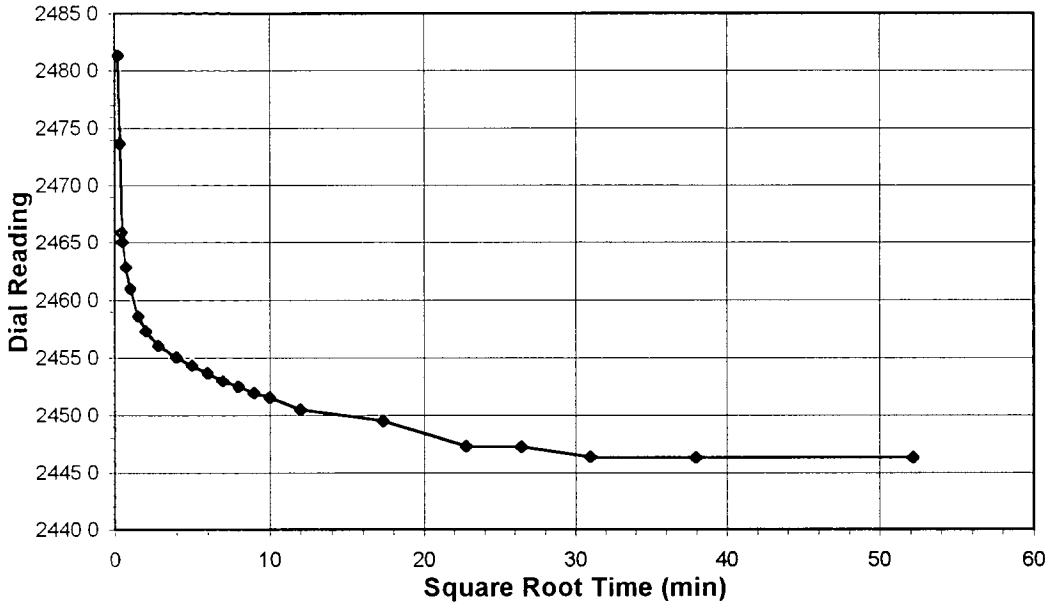


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PFP-35
Lab ID	2004-221-03-03	Visual Description	BROWN STABILIZED MATERIAL

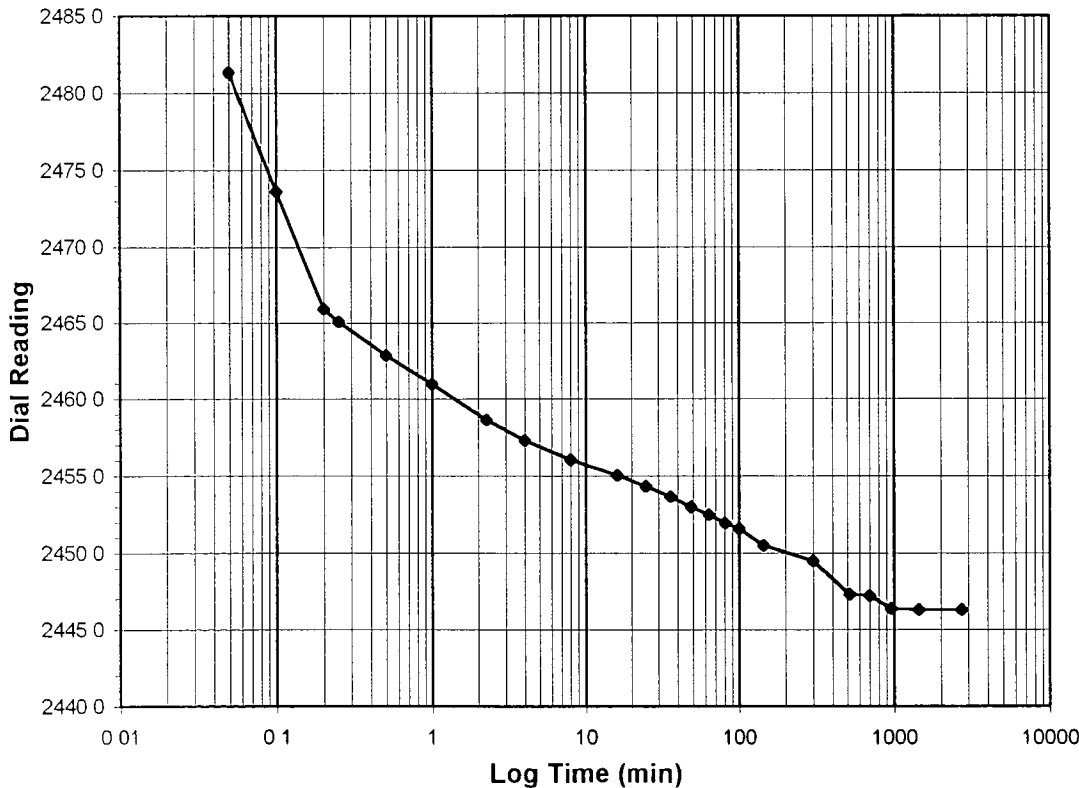
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



<b>Test Load</b>	(tsf)	<b>8.0-4.0</b>
<b>Final Reading</b>	(div)	<b>2446.3</b>
Consolidometer No.		6
1 Division	(in)	0.0001

Start Date	11/29/04
Start Time	10:48:01

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>2483.6</b>
0.05	2481.3
0.10	2473.7
0.20	2465.9
0.25	2465.1
0.50	2462.8
1.00	2461.0
2.25	2458.6
4.00	2457.3
8.00	2456.0
16.00	2455.0
25.00	2454.3
36.00	2453.7
49.00	2453.0
64.00	2452.5
81.00	2451.9
100.00	2451.6
144.00	2450.5
300.00	2449.5
520.00	2447.3
700.00	2447.2
960.00	2446.4
1440.00	2446.3
2721.22	2446.3



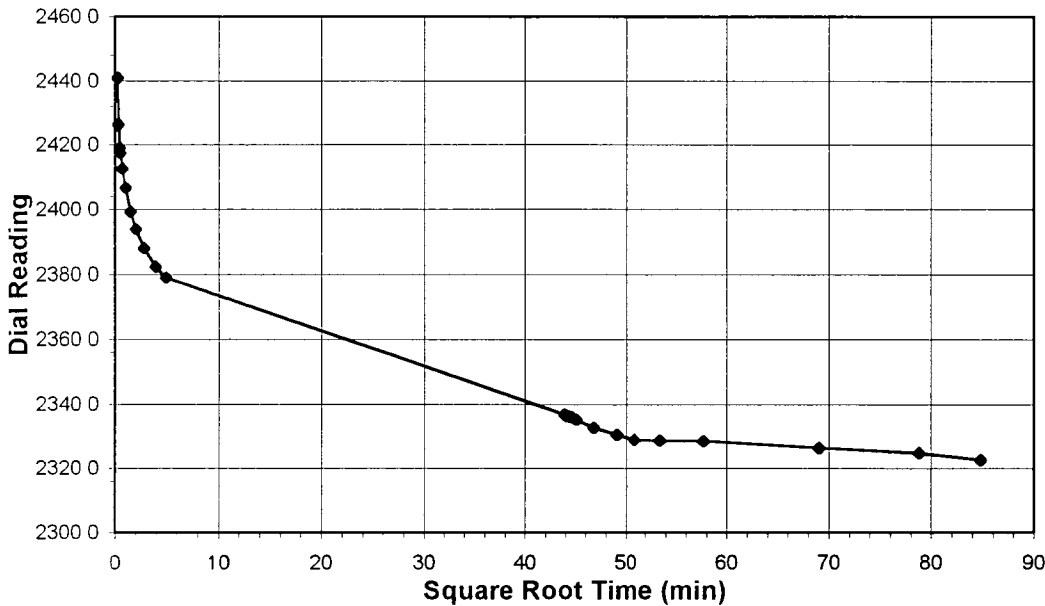
Tested By *JRB* Date *11/29/04* Checked By *TJM* Date *3-3-05*

# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

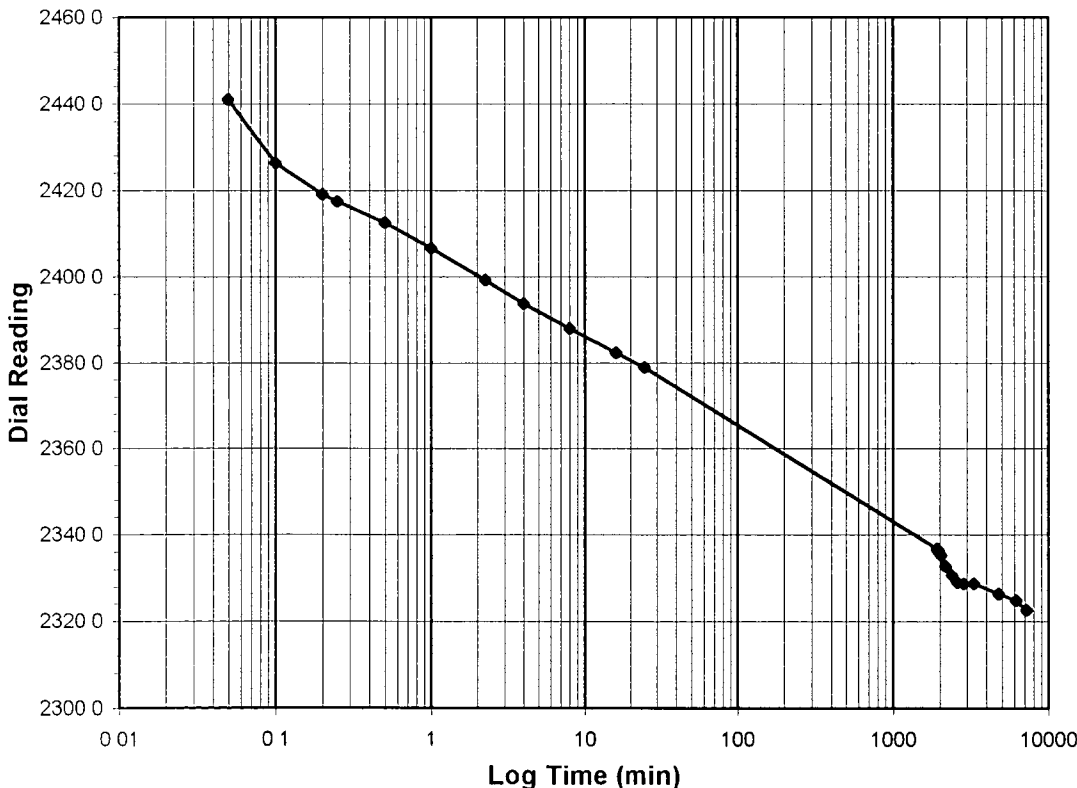
Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PFP-35
Lab ID	2004-221-03-03	Visual Description	BROWN STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	4.0-1.0
Final Reading (div)	2322.6
Consolidometer No.	6
1 Division (in)	0.0001
Start Date	12/1/04
Start Time	8:55:15

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>2446.3</b>
0.05	2440.9
0.10	2426.4
0.20	2419.1
0.25	2417.5
0.50	2412.6
1.00	2406.6
2.25	2399.2
4.00	2393.8
8.00	2387.9
16.00	2382.2
25.00	2378.8
1928.00	2336.7
1928.22	2336.7
1940.98	2336.4
1955.98	2336.3
1972.98	2336.2
1991.98	2335.9
2035.98	2335.2
2191.98	2332.8
2411.98	2330.5
2591.98	2329.0
2851.98	2328.7
3331.98	2328.6
4771.98	2326.3
6211.98	2324.8
7198.17	2322.6



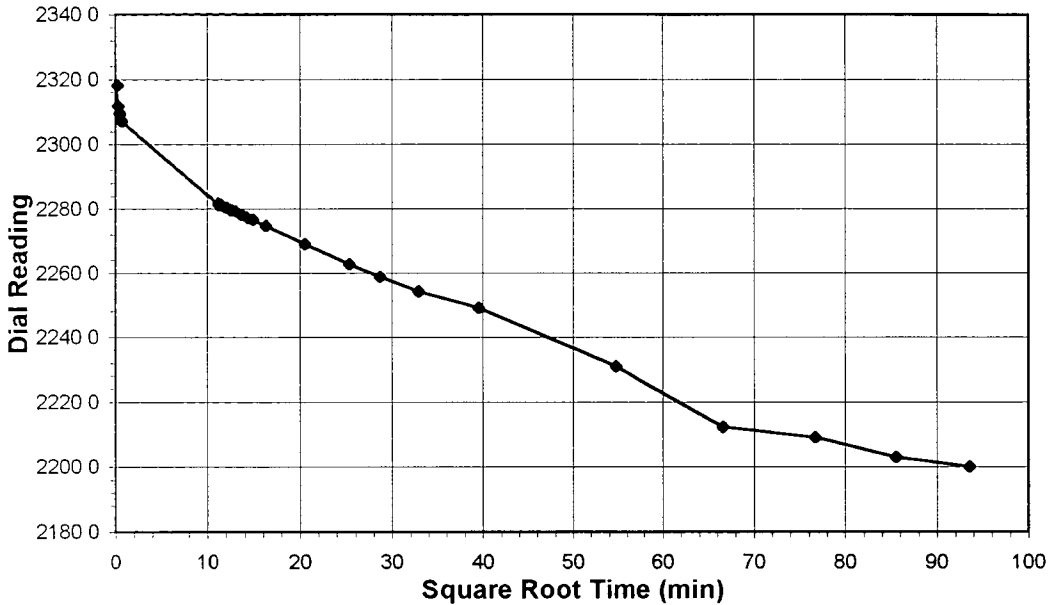
Tested By **JRB** Date **12/3/04** Checked By **TJM** Date **3-3-05**

# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

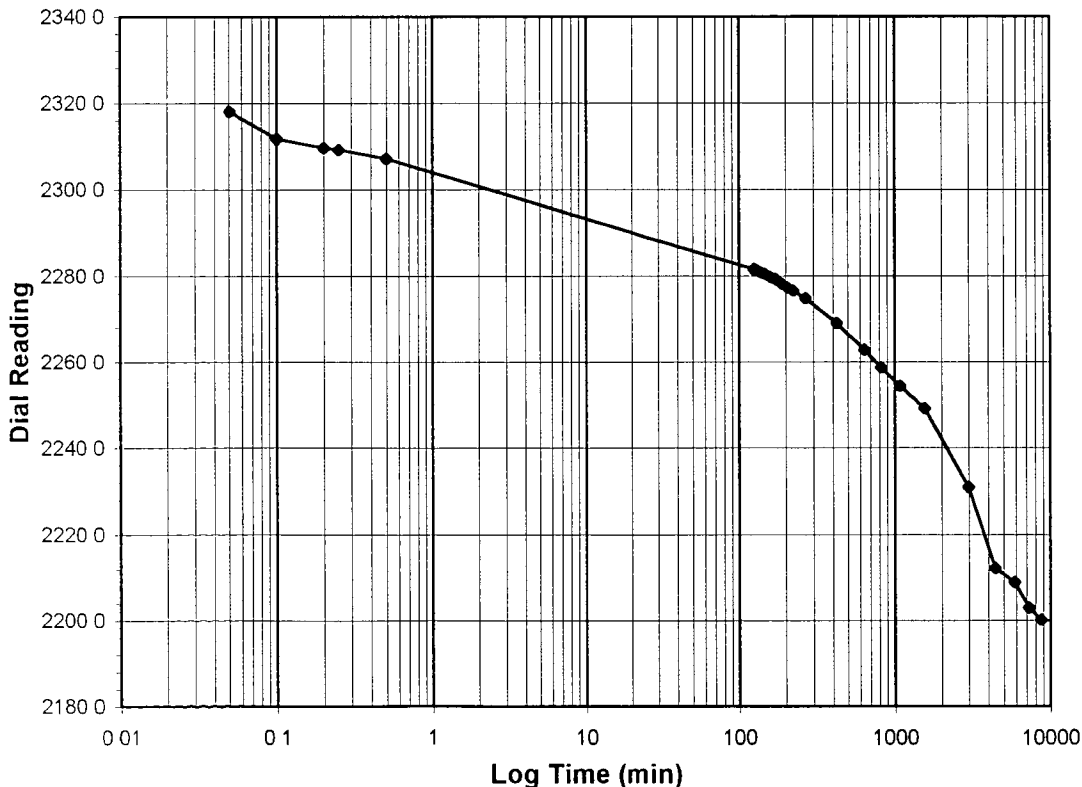
Client	BLASLAND, BOUCK & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PFP-35
Lab ID	2004-221-03-03	Visual Description	BROWN STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



<b>Test Load (tsf)</b>	<b>1.0-0.25</b>
<b>Final Reading (div)</b>	<b>2200.2</b>
Consolidometer No.	6
1 Division (in)	0.0001
<b>Start Date</b>	<b>12/6/04</b>
<b>Start Time</b>	<b>8:55:36</b>

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>2322.6</b>
0.05	2318.1
0.10	2311.8
0.20	2309.7
0.25	2309.2
0.50	2307.1
124.38	2281.6
125.63	2281.7
127.38	2281.2
131.38	2281.2
139.38	2280.7
148.38	2280.4
159.38	2279.6
172.38	2279.3
187.38	2278.3
204.38	2277.2
223.38	2276.6
267.38	2274.7
423.38	2269.0
643.38	2262.7
823.38	2258.7
1083.38	2254.2
1563.38	2249.1
3003.38	2231.0
4443.38	2212.2
5883.38	2209.0
7323.38	2203.1
8763.38	2200.2



Tested By **JRB** Date **12/6/04** Checked By **JM** Date **3-3-05**

**UNCONFINED COMPRESSIVE STRENGTH**  
ASTM D2166-00 (SOP S-30)



Client BLASLAND, BOUCK, AND LEE  
 Client Reference GEHR TREATABILITY 204.302  
 Project No. 2004-221-03  
 Lab ID 2004-221-03-05

Boring No. NA  
 Depth (ft.) NA  
 Sample No. PFP-47  
 Visual BROWN STABILIZED SLUDGE

INITIAL SAMPLE DIMENSIONS			
Length 1(in)	3.726	Top Dia. (in)	2.006
Length 2(in)	3.732	Mid. Dia. (in)	2.030
Length 3(in)	3.739	Bot. Dia (in)	1.968
Avg.Length(in)	3.732	Area (in.^2)	3.146

WATER CONTENT AFTER TEST	
Tare No	701
Wt. Tare + WS.(gms)	156.63
Wt. Tare + DS.(gms)	132.96
Wt. of Tare(gms)	100.40
% Moisture	72.70

UNIT WEIGHT			
Wt. Tube & WS.(gms.)	285.2	Sample Volume(cc.)	192.4
Wt. Of Tube(gms.)	0.0	Unit Wet Wt.(gms/cc)	1.48
Wt. Of WS.(gms.)	285.24	Unit Wet Wt.(pcf.)	92.51
Diameter (in.)	2.00	Moisture Content, %	72.70
Length (in.)	3.73	Unit Dry Wt.(pcf.)	53.57
Length (cm.)	9.48		

DEFORMATION (in)	LOAD (lbs)	ELAPSED TIME (min.)	STRAIN (%)	STRESS (psi)
0.000	1.6	0.00	0.00	0.00
0.002	2.6	0.05	0.05	0.33
0.004	3.7	0.10	0.10	0.65
0.008	4.9	0.20	0.20	1.04
0.013	6.6	0.35	0.35	1.58
0.021	8.4	0.55	0.55	2.15
0.030	10.2	0.80	0.81	2.70
0.045	13.0	1.20	1.20	3.57
0.060	15.6	1.60	1.61	4.36
0.075	17.5	2.00	2.01	4.94
0.090	19.5	2.40	2.41	5.56
0.113	22.4	3.02	3.02	6.41
0.128	24.1	3.42	3.42	6.91
0.158	27.9	4.22	4.23	8.01
0.188	31.1	5.03	5.03	8.90
0.225	34.5	6.03	6.03	9.81
0.244	36.1	6.53	6.53	10.26
0.281	38.5	7.53	7.54	10.83
0.300	38.8	8.03	8.03	10.88
0.337	37.6	9.03	9.03	10.40
0.375	29.5	10.03	10.04	7.98
0.430	17.8	11.53	11.53	4.54

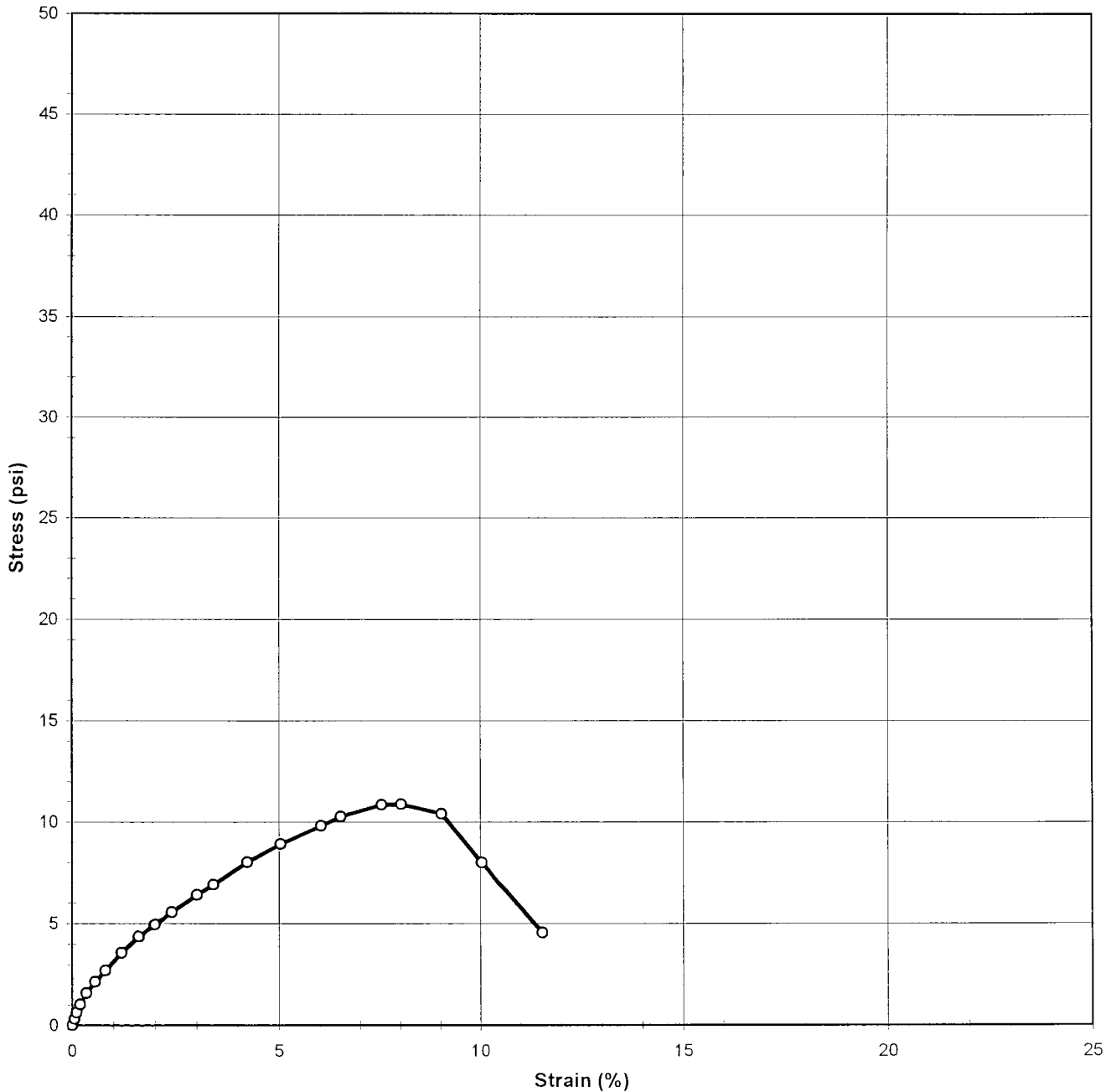
Tested By JCM

Date 09/17/04 Input Checked By

Date 9/21/04

**UNCONFINED COMPRESSIVE STRENGTH**  
ASTM D2166-00 (SOP S-30)

Client	BLASLAND, BOUCK, AND LEE	Boring No	NA
Client Reference	GEHR TREATABILITY 204 302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PFP-47
Lab ID	2004-221-03-05	Visual	BROWN STABILIZED SLUDGE



Tested By JCM

Date 09/17/04 Approved By

*DB*

Date 9/21/04



**UNCONFINED COMPRESSIVE STRENGTH**  
ASTM D2166-00 (SOP S-30)



Client BLASLAND, BOUCK, AND LEE  
 Client Reference GEHR TREATABILITY 204.302  
 Project No. 2004-221-03  
 Lab ID 2004-221-03-04

Boring No. NA  
 Depth (ft.) NA  
 Sample No. PFP-40  
 Visual BROWN STABILIZED SLUDGE

INITIAL SAMPLE DIMENSIONS			
Length 1(in)	3.790	Top Dia. (in)	2.032
Length 2(in)	3.752	Mid. Dia. (in)	2.012
Length 3(in)	3.731	Bot. Dia. (in)	1.968
Avg.Length(in)	3.758	Area (in.^2)	3.154

WATER CONTENT AFTER TEST	
Tare No.	1619
Wt Tare + WS.(gms)	158.33
Wt. Tare + DS.(gms)	128.47
Wt. of Tare(gms)	96.05
% Moisture	92.10

UNIT WEIGHT			
Wt. Tube & WS.(gms.)	267.0	Sample Volume(cc.)	194.2
Wt. Of Tube(gms.)	0.0	Unit Wet Wt (gms/cc)	1.37
Wt. Of WS.(gms.)	266.95	Unit Wet Wt.(pcf.)	85.76
Diameter (in.)	2.00	Moisture Content, %	92.10
Length (in.)	3.76	Unit Dry Wt.(pcf.)	44.65
Length (cm.)	9.54		

DEFORMATION (in)	LOAD (lbs)	ELAPSED TIME (min.)	STRAIN (%)	STRESS (psi)
0.000	0.7	0.00	0.00	0.00
0.002	1.2	0.05	0.05	0.17
0.003	1.8	0.10	0.09	0.36
0.007	2.6	0.20	0.19	0.61
0.013	3.6	0.35	0.35	0.93
0.021	4.7	0.57	0.55	1.27
0.030	6.0	0.82	0.80	1.68
0.037	7.1	1.02	1.00	2.01
0.041	7.5	1.12	1.10	2.14
0.056	9.3	1.52	1.50	2.70
0.071	11.1	1.92	1.90	3.24
0.094	13.7	2.52	2.51	4.02
0.109	14.1	2.92	2.91	4.13
0.139	18.2	3.72	3.70	5.35
0.169	21.4	4.53	4.51	6.27
0.185	22.8	4.93	4.91	6.66
0.207	25.0	5.53	5.51	7.30
0.245	28.3	6.53	6.51	8.18
0.264	29.7	7.03	7.01	8.56
0.301	31.6	8.03	8.01	9.03
0.338	32.8	9.05	9.01	9.28
0.395	28.0	10.55	10.51	7.75
0.451	16.5	12.05	12.00	4.42

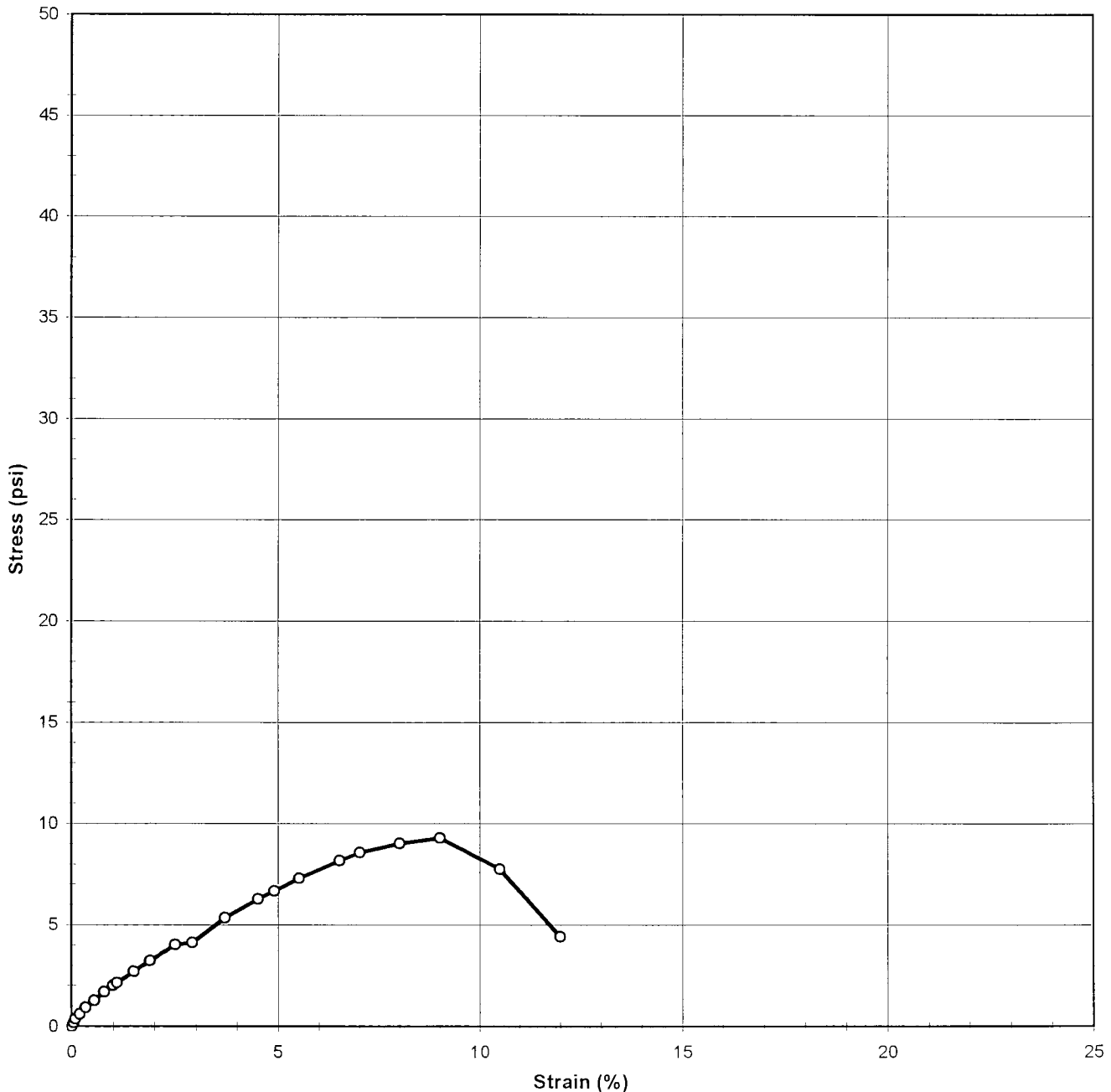
Tested By JCM

Date 09/17/04 Input Checked By

Date 9.21.04

**UNCONFINED COMPRESSIVE STRENGTH**  
ASTM D2166-00 (SOP S-30)

Client	BLASLAND, BOUCK, AND LEE	Boring No.	NA
Client Reference	GEHR TREATABILITY 204.302	Depth (ft.)	NA
Project No.	2004-221-03	Sample No.	PFP-40
Lab ID	2004-221-03-04	Visual	BROWN STABILIZED SLUDGE



Tested By JCM

Date 09/17/04

Approved By

*DB*

Date 9/21/04

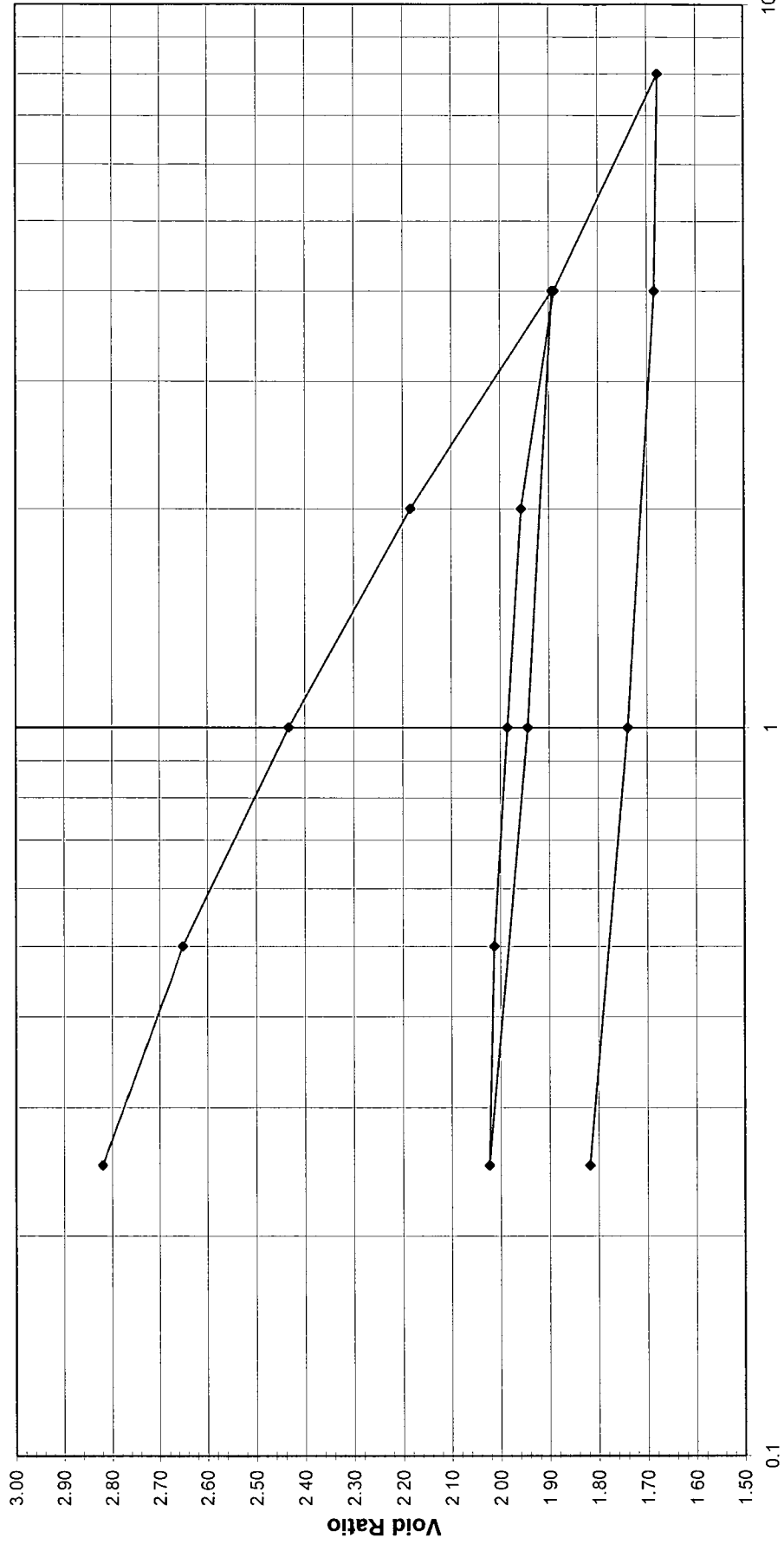


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 / AASHTO T216-03 (SOP-S24)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Reference	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PPF-40
Lab ID	2004-221-03-04	Visual Description	BROWN STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Log P (tsf)

Tested By TM Date 10/8/04 Approved By DB Date 10/26/04



# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 / AASHTO T216-03 (SOP-S24)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Reference	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No	PPF-40
Lab ID	2004-221-03-04	Visual Description	BROWN STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED

**Consolidometer No.** 3

**1 Division** = 0.0001 (in)

### Sample Properties

	Initial	Final
<i>Water Content</i>		
Tare Number	2382	1399
Wt. Tare & WS (gm)	55.22	125.45
Wt. Tare & DS (gm)	32.36	91.39
Wt. Water (gm)	22.86	34.06
Wt. Tare (gm)	8.12	38.18
Wt. DS (gm)	24.24	53.21
Water Content (%)	94.31	64.01

### Sample Parameters

Sample Diameter (in)	2.5	2.5
Sample Height (in)	1	0.709
Sample Volume (cc)	80.44	57.04
Wt. Wet Sample + Ring (gm)	252.09	235.53
Wt. of Ring (gm)	145.88	145.88
Wt. of Wet Sample (gm)	106.21	89.65
Wet Density (pcf)	82.39	98.08
Wet Density (g/cc)	1.32	1.57
Water Content (%)	94.31	64.01
Wt. of Dry Sample (gm)	54.66	54.66
Dry Density (pcf)	42.40	59.80
Dry Density (g/cc)	0.68	0.96
Void Ratio	2.9734	1.8175
Saturation (%)	85.64	95.09
Specific Gravity	2.70	Assumed

### Test Data Summary

Applied Pressure (tsf)	Final Dial Reading (div)	Machine Deflection (div)	Corrected Reading (div)	Height of Sample (mm)	Volume (cc)	Dry Density (g/cc)	Void Ratio
Seating	0	0	0	25.400	80.440	0.67953	2.97336
0.25	387.6	0.8	386.8	24.418	77.329	0.70686	2.81968
0.5	815.4	2.5	813.0	23.335	73.900	0.73966	2.65034
1	1367.8	7.6	1360.2	21.945	69.498	0.78651	2.43289
2	2003.9	15.6	1988.3	20.350	64.446	0.84816	2.18335
4	2747.6	28.7	2718.9	18.494	58.569	0.93328	1.89303
1	2604.5	11.6	2592.9	18.814	59.582	0.91740	1.94310
0.25	2396.6	4.4	2392.2	19.324	61.197	0.89319	2.02286
0.5	2423.4	4.8	2418.6	19.257	60.984	0.89631	2.01235
1	2495.1	8.1	2487.1	19.083	60.434	0.90447	1.98516
2	2576.1	16.3	2559.8	18.898	59.849	0.91332	1.95625
4	2756.4	27.5	2728.9	18.469	58.489	0.93455	1.88908
8	3305.4	43.0	3262.4	17.113	54.197	1.00856	1.67708
4	3282.2	38.7	3243.6	17.161	54.349	1.00574	1.68458
1	3121.6	16.2	3105.4	17.512	55.460	0.98560	1.73946
0.25	2916.9	7.8	2909.1	18.011	57.039	0.95831	1.81746

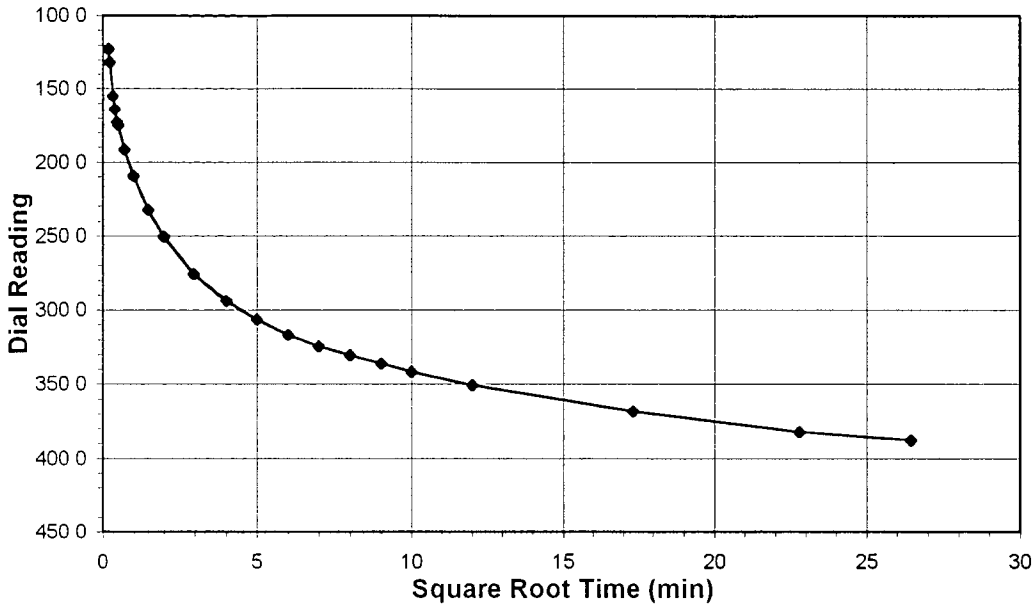
Tested By TM Date 10/8/04 Input Checked By CU Date 10/26/04



**ONE DIMENSIONAL CONSOLIDATION**  
ASTM D 2435-96 (SOP-S24A)

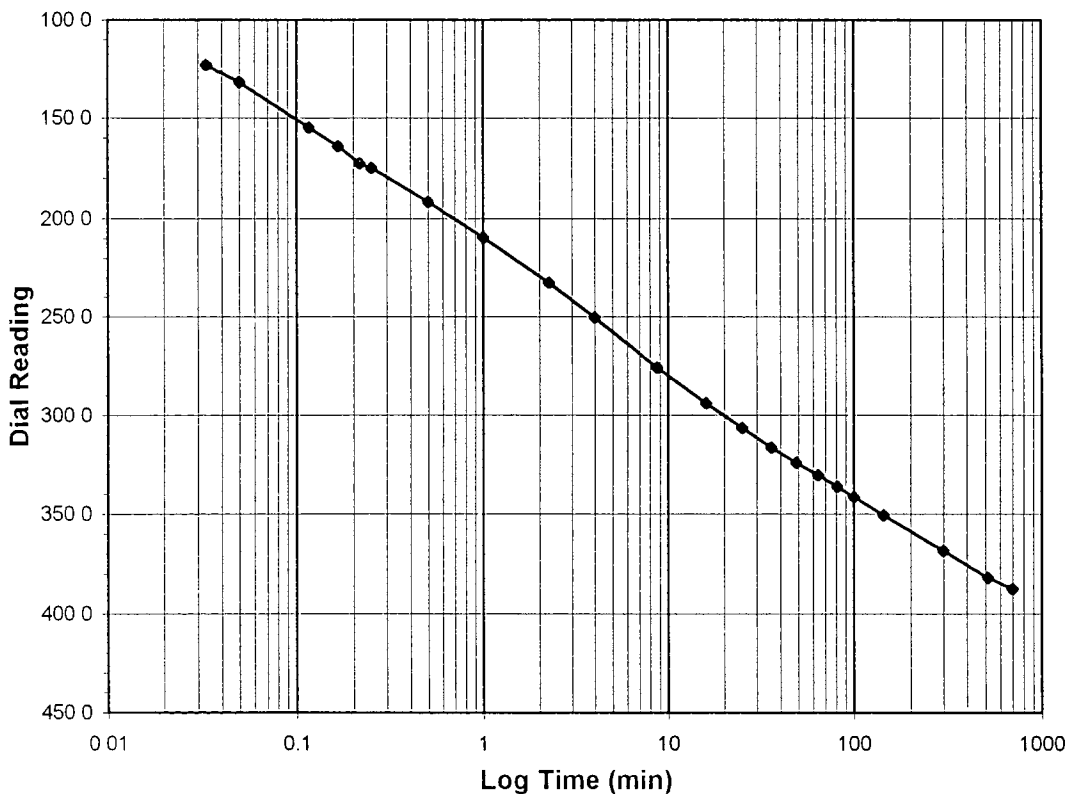
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PFP-40
Lab ID	2004-221-03-04	Visual Description	BROWN STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0-0.25
Final Reading (div)	387.6
Consolidometer No.	3
1 Division (in)	0.0001
Start Date	10/8/04
Start Time	15:52:03

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<i>0.0</i>
0.03	122.9
0.05	131.8
0.12	154.9
0.17	164.1
0.22	172.6
0.25	174.8
0.50	191.7
1.00	209.5
2.25	232.5
4.00	250.4
8.78	275.9
16.00	293.9
25.00	306.6
36.00	316.6
49.00	324.3
64.00	330.5
81.00	336.3
100.00	341.5
144.00	350.5
300.00	368.4
520.00	381.9
700.00	387.6



Tested By *TM* Date *10/8/04* Checked By *GU* Date *10/26/04*

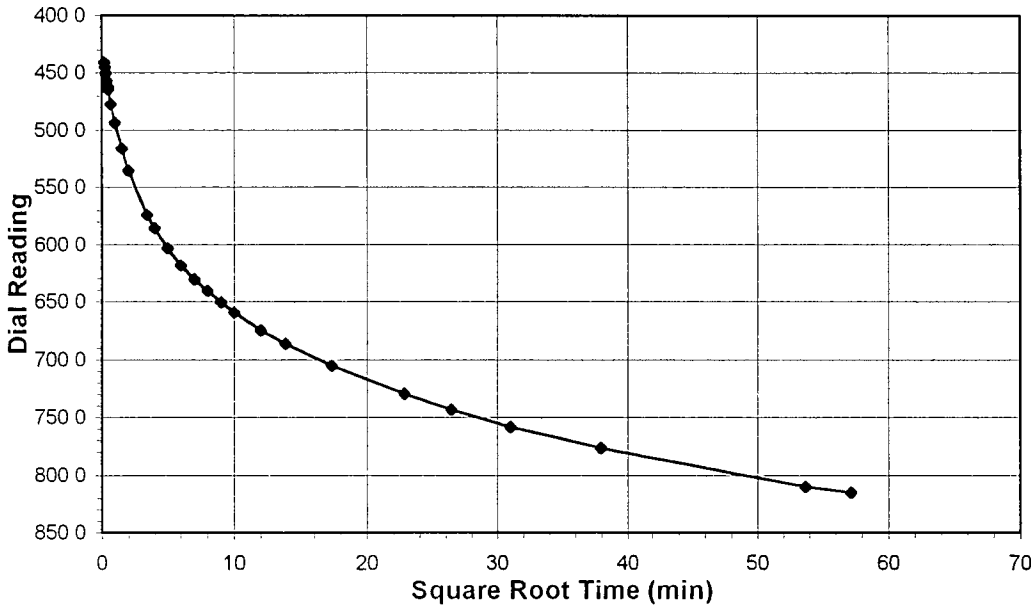


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PFP-40
Lab ID	2004-221-03-04	Visual Description	BROWN STABILIZED MATERIAL

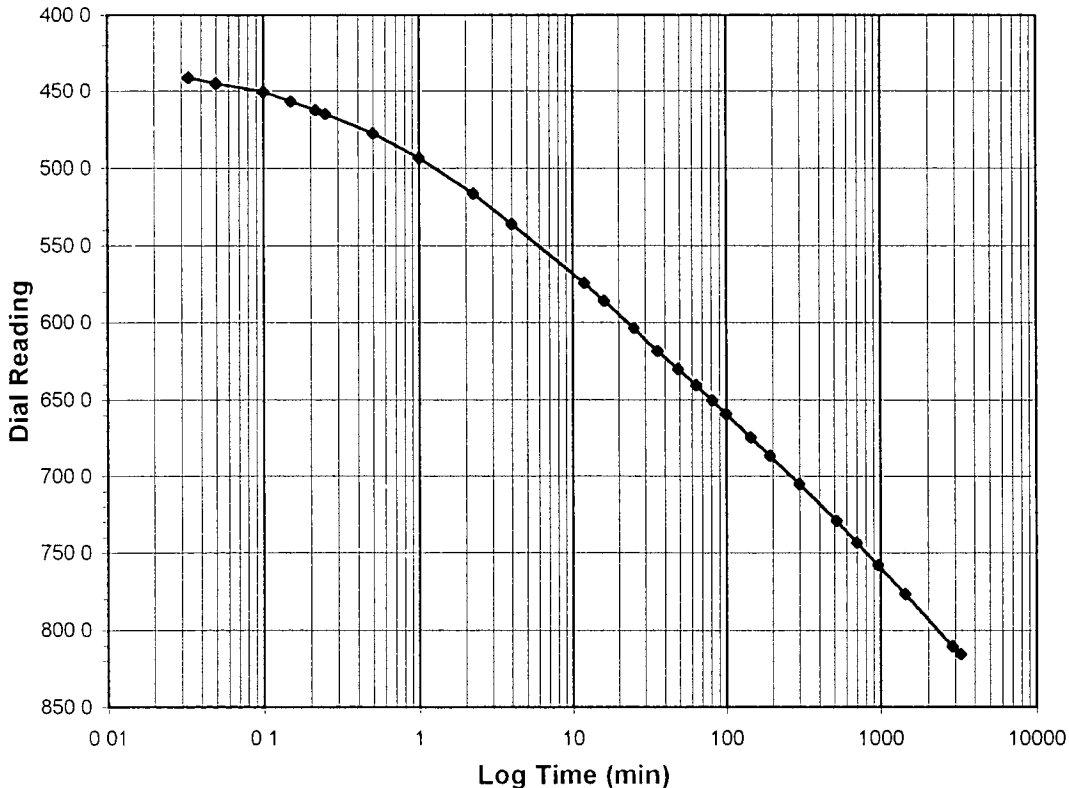
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.25-0.5
Final Reading (div)	815.4
Consolidometer No.	3
1 Division (in)	0.0001

Start Date	10/9/04
Start Time	4:23:17

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>387.6</b>
0.03	441.1
0.05	444.9
0.10	450.6
0.15	456.8
0.22	462.5
0.25	464.9
0.50	477.6
1.00	493.2
2.25	516.1
4.00	535.6
11.83	574.0
16.00	585.7
25.00	603.6
36.00	618.4
49.00	630.4
64.00	640.7
81.00	650.4
100.00	659.3
144.00	674.8
192.33	686.6
300.00	705.3
520.00	729.3
700.00	743.6
960.00	758.1
1440.00	776.7
2880.00	810.4
3266.63	815.4



Tested By TM Date 10/9/04 Checked By GU Date 10/26/04

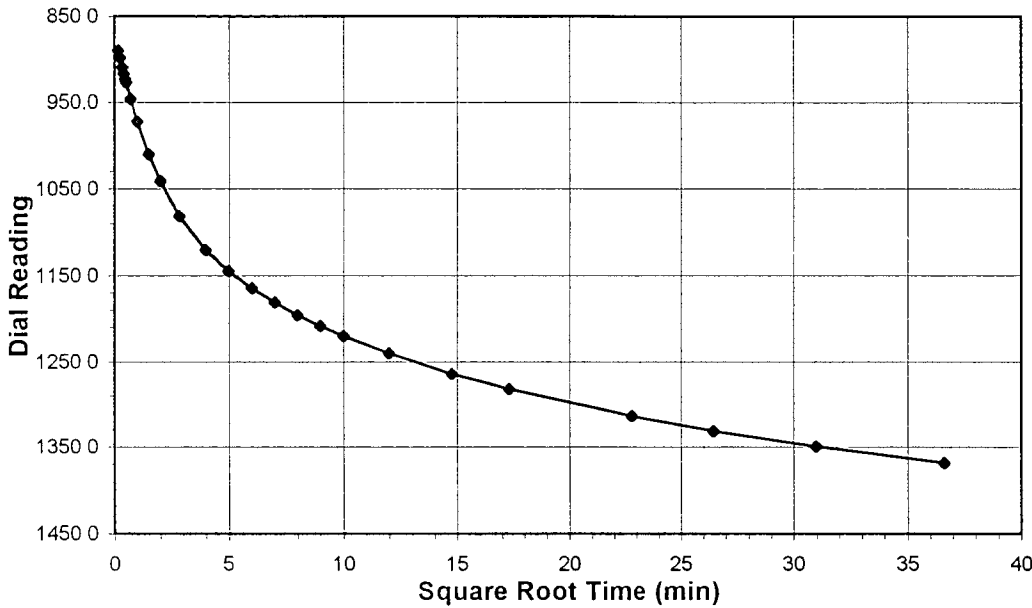


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PPF-40
Lab ID	2004-221-03-04	Visual Description	BROWN STABILIZED MATERIAL

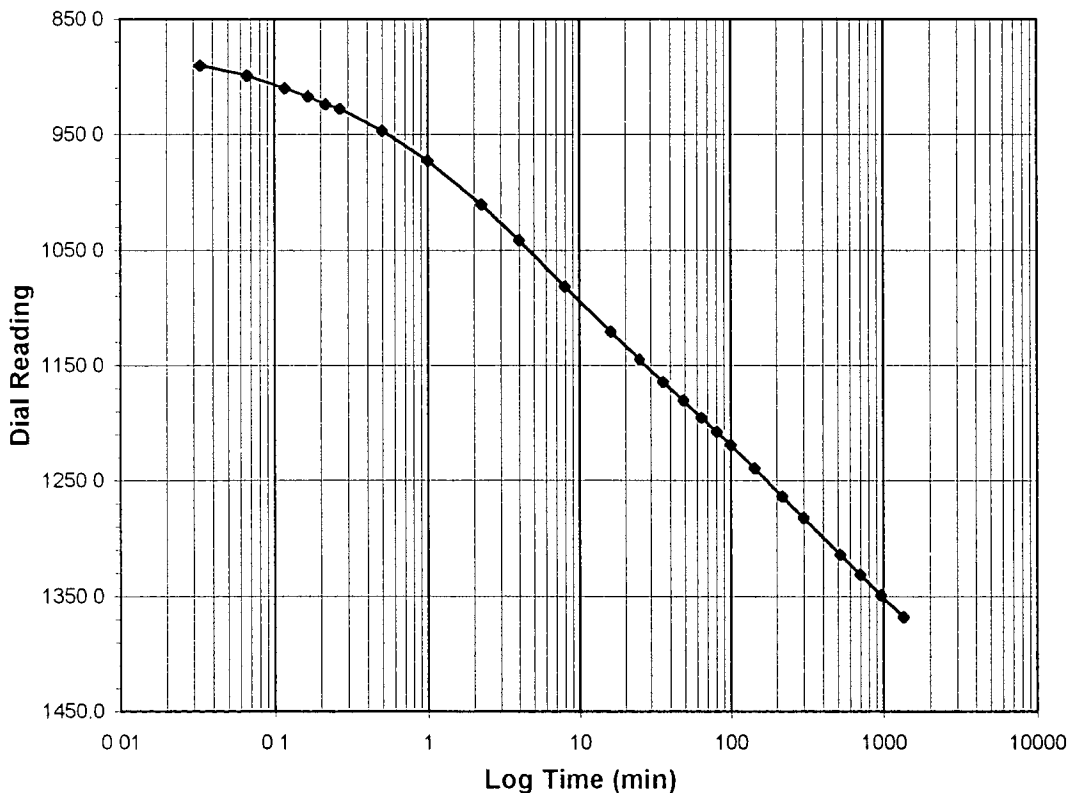
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 0.5-1.0  
 Final Reading (div) 1367.8  
 Consolidometer No. 3  
 1 Division (in) 0.0001

Start Date 10/11/04  
 Start Time 11:03:06

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>815.4</b>
0.03	890.3
0.07	898.9
0.12	910.0
0.17	916.9
0.22	923.7
0.27	927.5
0.50	946.8
1.00	972.4
2.25	1009.6
4.00	1040.7
8.00	1081.4
16.00	1120.6
25.00	1145.1
36.00	1164.6
49.00	1181.1
64.00	1195.5
81.00	1208.0
100.00	1219.9
144.00	1239.9
218.50	1264.0
300.00	1282.2
520.00	1313.9
700.00	1331.3
960.00	1349.2
1341.93	1367.8



Tested By TM Date 10/11/04 Checked By GU Date 10/26/04

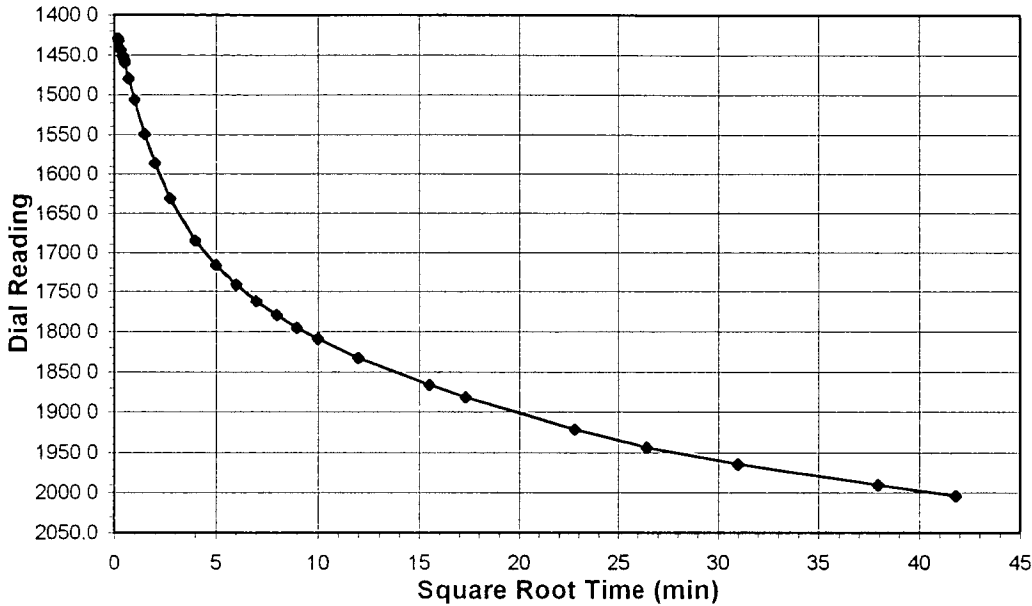


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PFP-40
Lab ID	2004-221-03-04	Visual Description	BROWN STABILIZED MATERIAL

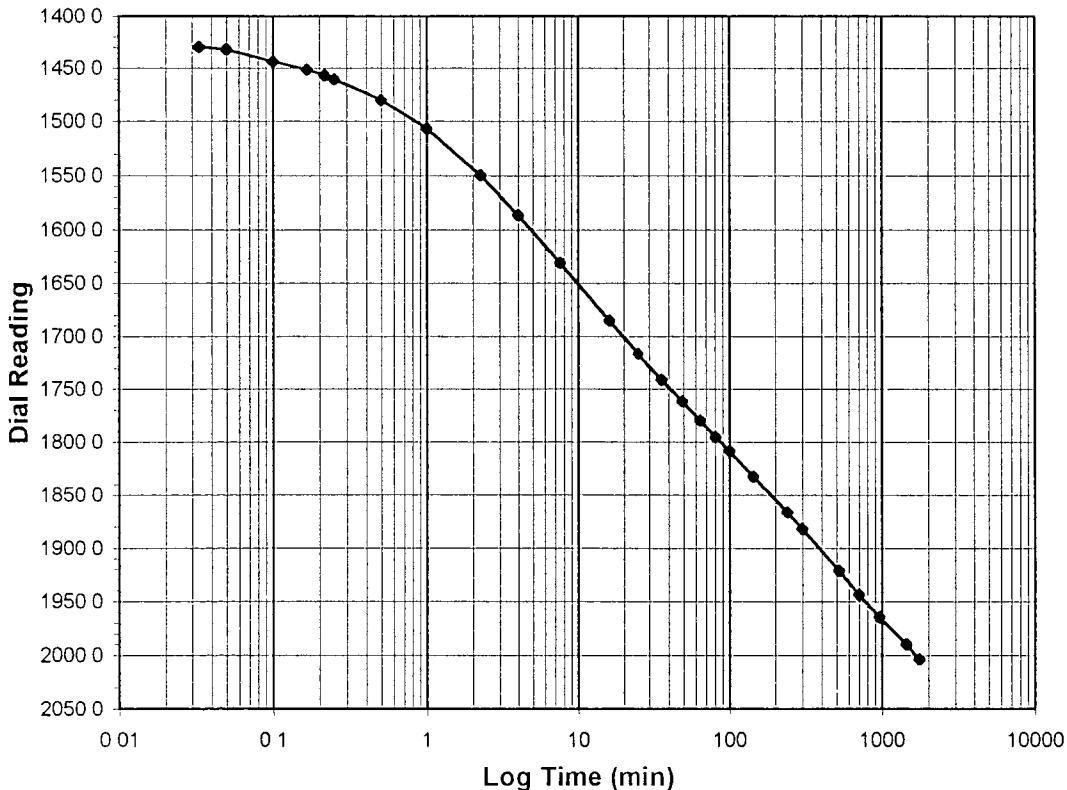
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	1.0-2.0
Final Reading (div)	2003.9
Consolidometer No.	3
1 Division (in)	0.0001

Start Date	10/12/04
Start Time	9:37:31

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>1367.8</b>
0.03	1429.4
0.05	1431.9
0.10	1443.3
0.17	1451.2
0.22	1456.5
0.25	1460.1
0.50	1480.0
1.00	1506.2
2.25	1549.2
4.00	1586.3
7.52	1631.0
16.00	1685.1
25.00	1716.2
36.00	1741.2
49.00	1761.6
64.00	1779.2
81.00	1794.9
100.00	1808.5
144.00	1832.5
239.82	1866.3
300.00	1881.5
520.00	1921.2
700.00	1943.4
960.00	1964.5
1440.00	1989.8
1749.00	2003.9



Tested By *TM* Date *10/12/04* Checked By *GU* Date *10/26/04*



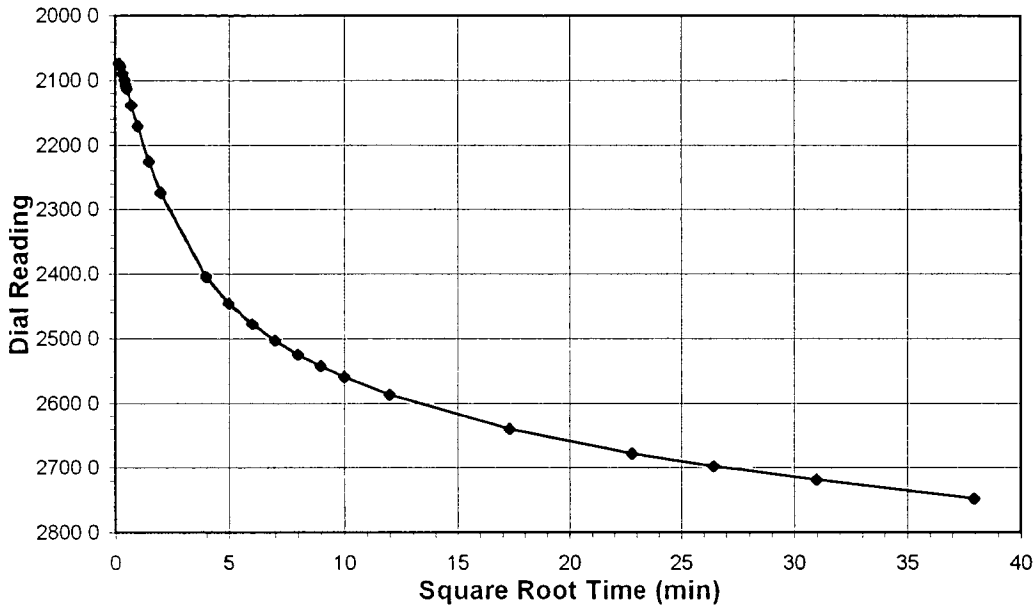


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

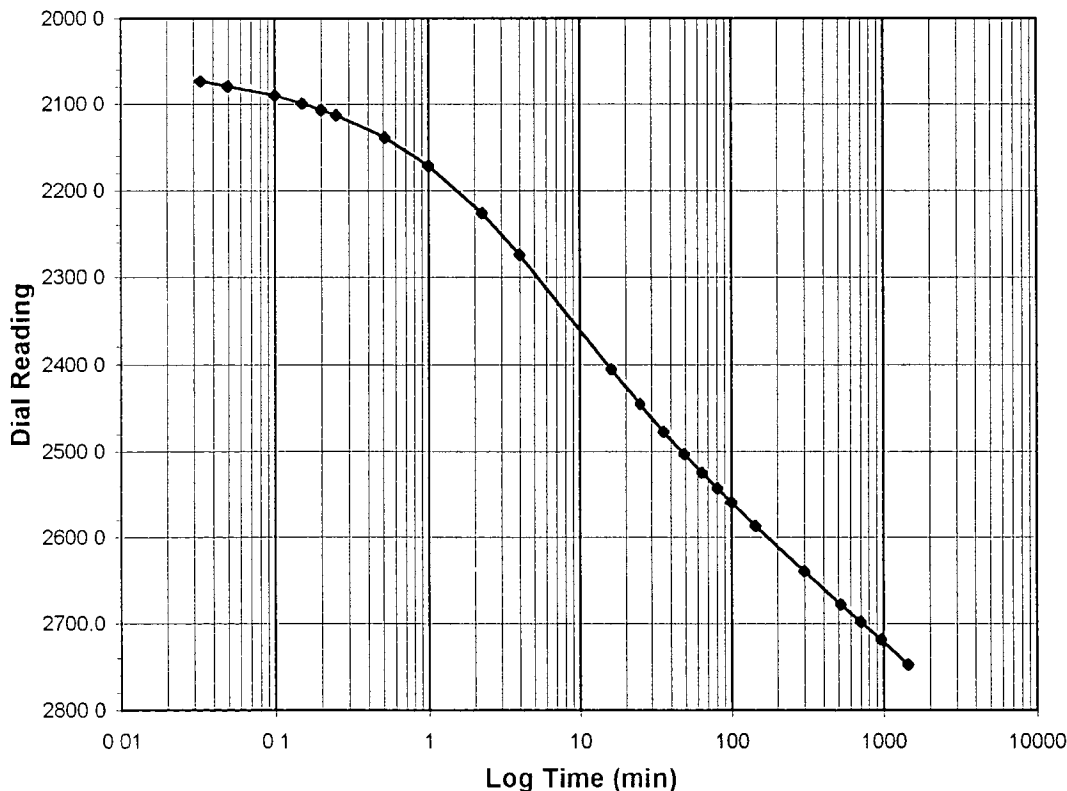
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PPF-40
Lab ID	2004-221-03-04	Visual Description	BROWN STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	2.0-4.0
Final Reading (div)	2747.6
Consolidometer No.	3
1 Division (in)	0.0001
Start Date	10/13/04
Start Time	15:06:18

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>2003.9</b>
0.03	2073.3
0.05	2079.0
0.10	2089.5
0.15	2099.1
0.20	2106.9
0.25	2112.8
0.52	2138.6
1.00	2170.6
2.25	2225.8
4.00	2273.8
16.00	2405.2
25.00	2445.8
36.00	2477.3
49.00	2502.9
64.00	2524.5
81.00	2542.9
100.00	2559.2
144.00	2586.8
300.00	2639.7
520.00	2677.7
700.00	2697.7
960.00	2718.5
1440.00	2747.6



Tested By *TM* Date *10/13/04* Checked By *GU* Date *10/26/04*

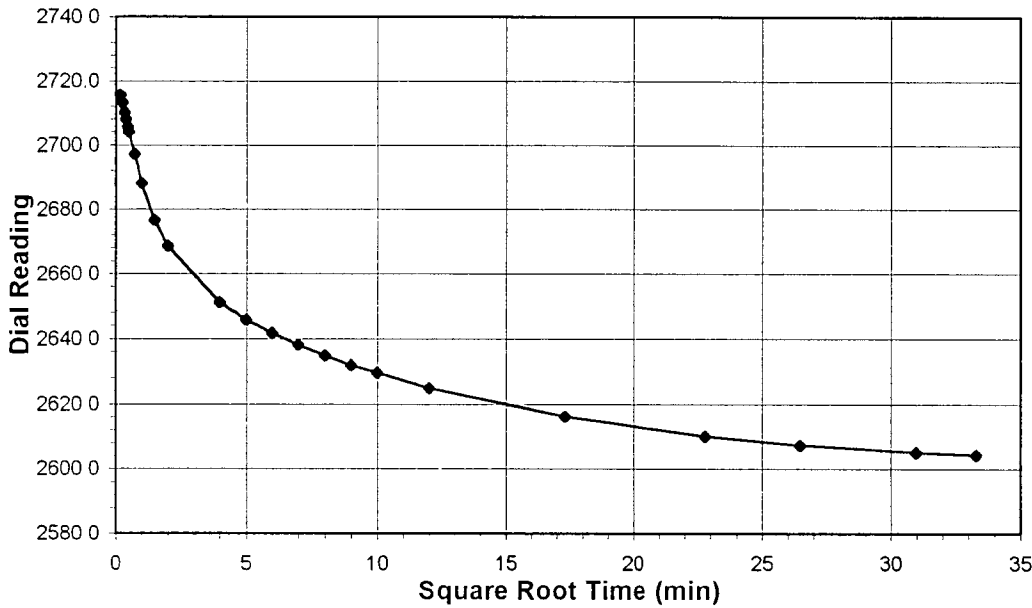


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PFP-40
Lab ID	2004-221-03-04	Visual Description	BROWN STABILIZED MATERIAL

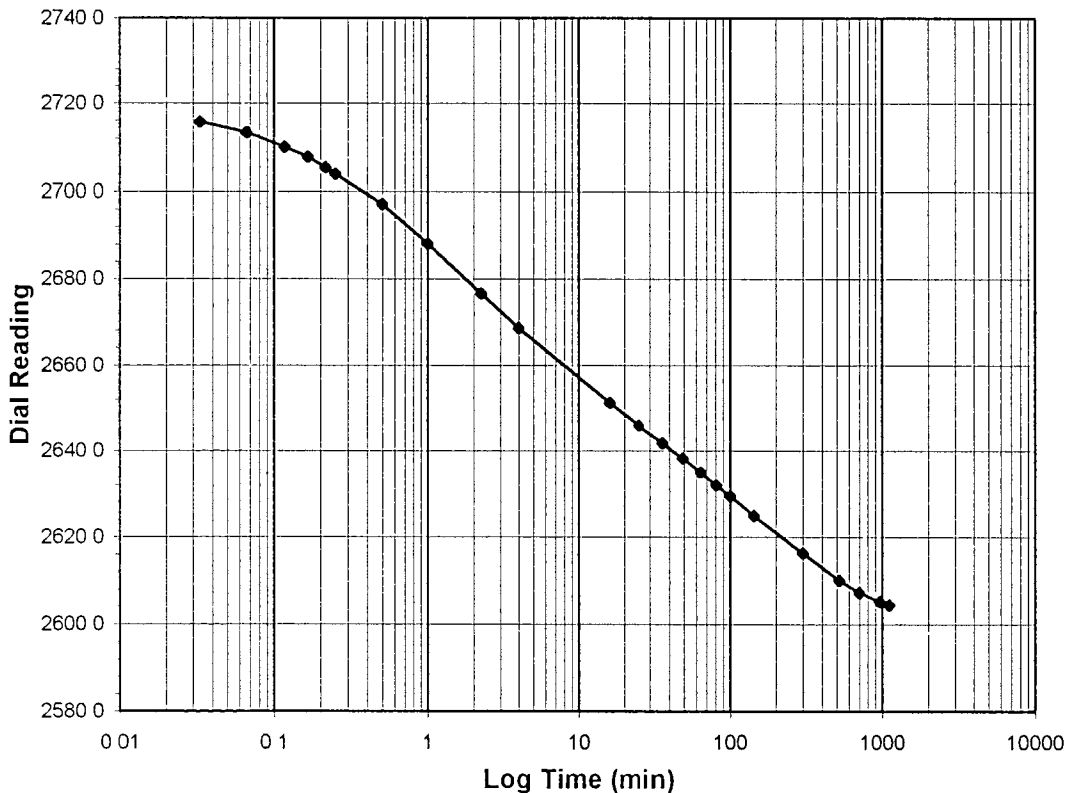
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 4.0-1.0  
 Final Reading (div) 2604.5  
 Consolidometer No. 3  
 1 Division (in) 0.0001

Start Date 10/14/04  
 Start Time 15:56:00

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	2747.6
0.03	2715.7
0.07	2713.3
0.12	2710.1
0.17	2707.9
0.22	2705.5
0.25	2704.0
0.50	2697.2
1.00	2688.2
2.25	2676.6
4.00	2668.7
16.00	2651.2
25.00	2645.9
36.00	2641.7
49.00	2638.1
64.00	2634.9
81.02	2632.0
100.00	2629.5
144.00	2624.9
300.00	2616.2
520.00	2610.1
700.00	2607.3
960.00	2605.1
1108.17	2604.5



Tested By TM Date 10/14/04 Checked By GU Date 10/26/04

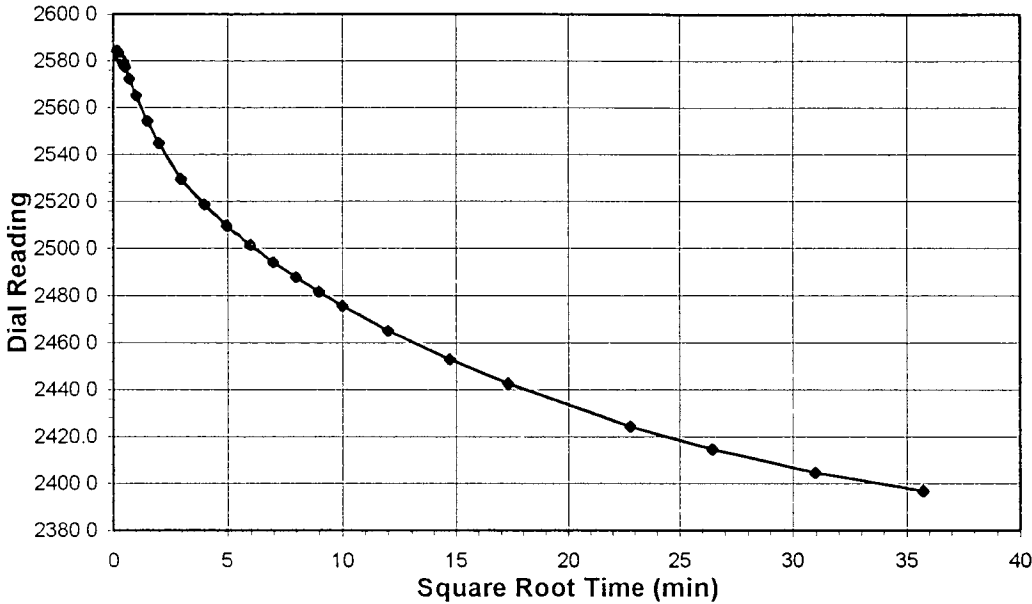


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PPF-40
Lab ID	2004-221-03-04	Visual Description	BROWN STABILIZED MATERIAL

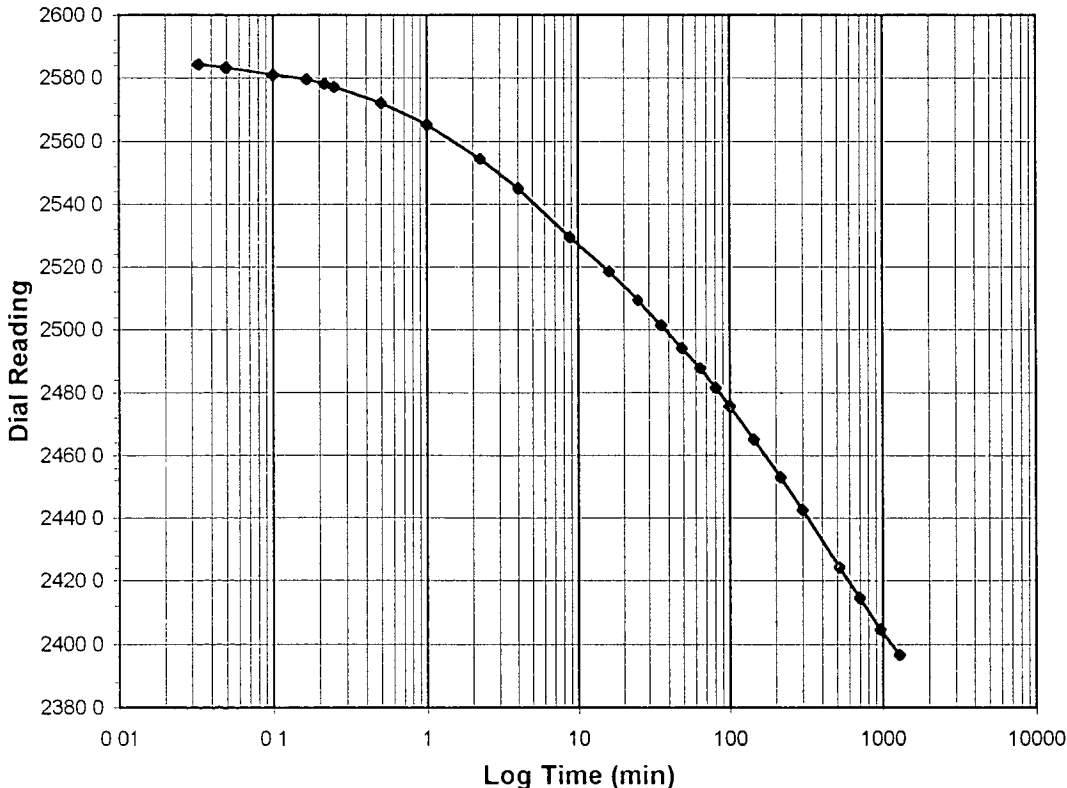
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	1.0-0.25
Final Reading (div)	2396.6
Consolidometer No.	3
1 Division (in)	0.0001

Start Date	10/15/04
Start Time	10:43:27

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	2604.5
0.03	2584.4
0.05	2583.3
0.10	2581.1
0.17	2579.6
0.22	2578.2
0.25	2577.3
0.50	2572.1
1.00	2565.2
2.25	2554.5
4.02	2545.0
8.78	2529.6
16.00	2518.7
25.00	2509.4
36.00	2501.4
49.00	2494.1
64.00	2487.8
81.00	2481.6
100.00	2475.7
144.00	2465.1
216.58	2453.0
300.00	2442.7
520.00	2424.3
700.00	2414.6
960.00	2404.7
1277.85	2396.6



Tested By *TM* Date *10/15/04* Checked By *GU* Date *10/26/04*

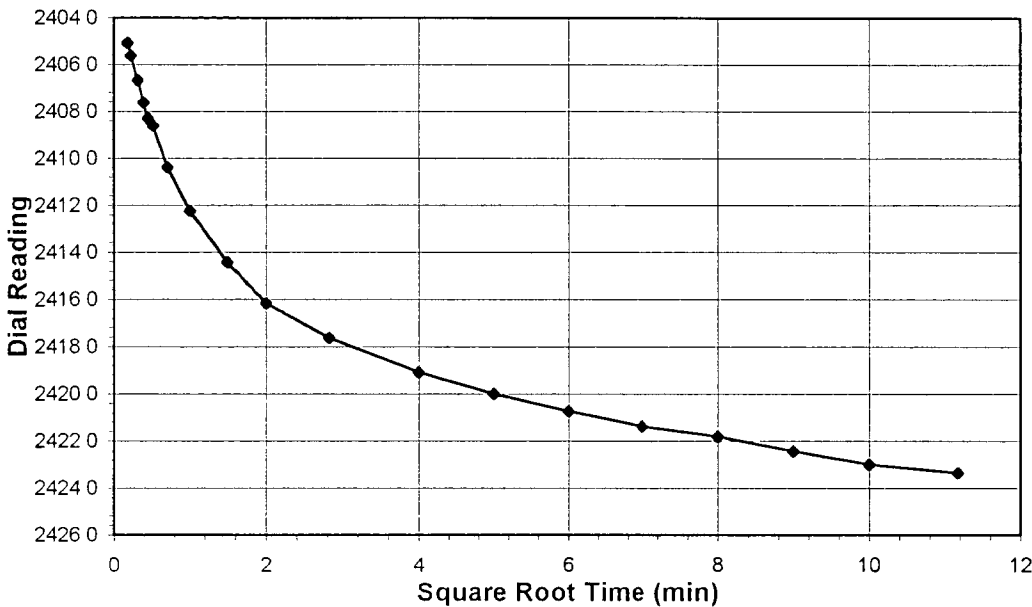


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

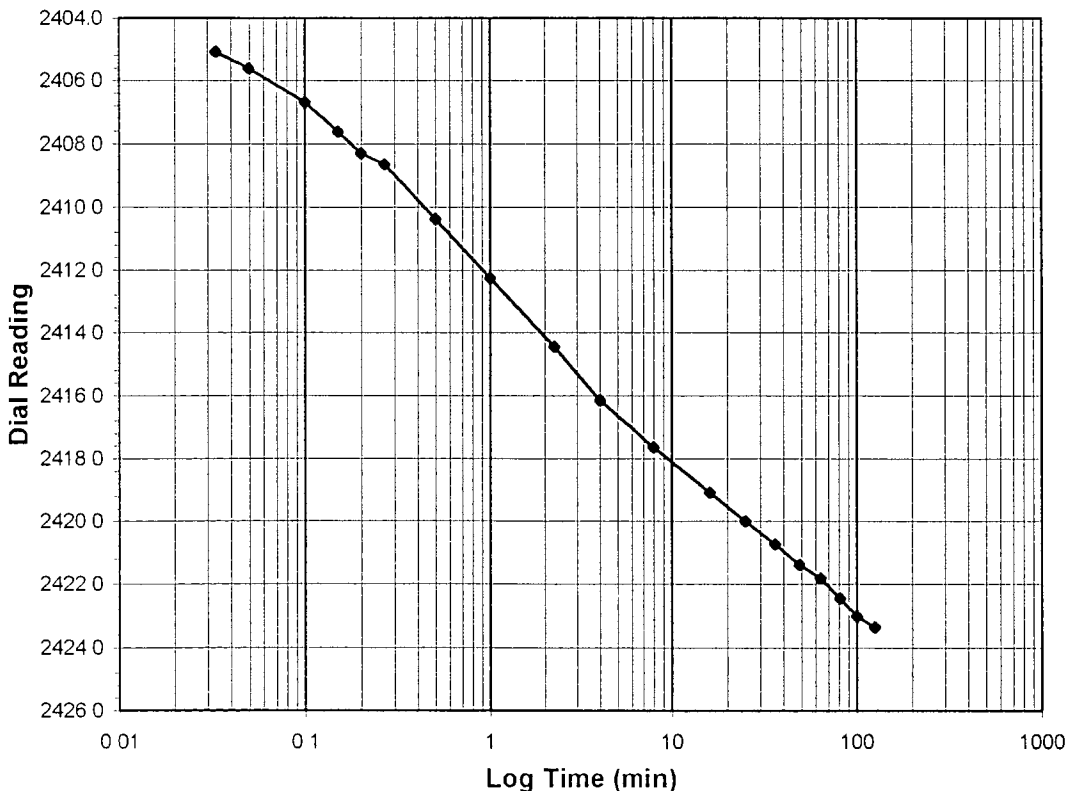
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PFP-40
Lab ID	2004-221-03-04	Visual Description	BROWN STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



<b>Test Load</b> (tsf)	<b>0.25-0.5</b>
<b>Final Reading</b> (div)	<b>2423.4</b>
Consolidometer No.	3
1 Division (in)	0.0001
<b>Start Date</b>	<b>10/16/04</b>
<b>Start Time</b>	<b>8:18:26</b>

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>2396.6</b>
0.03	2405.1
0.05	2405.6
0.10	2406.7
0.15	2407.6
0.20	2408.3
0.27	2408.6
0.50	2410.4
1.00	2412.3
2.25	2414.4
4.00	2416.2
7.97	2417.6
16.00	2419.1
25.00	2420.0
36.00	2420.7
49.00	2421.4
64.00	2421.8
81.00	2422.4
100.00	2423.0
124.80	2423.4



Tested By *TM* Date *10/16/04* Checked By *CU* Date *10/26/04*

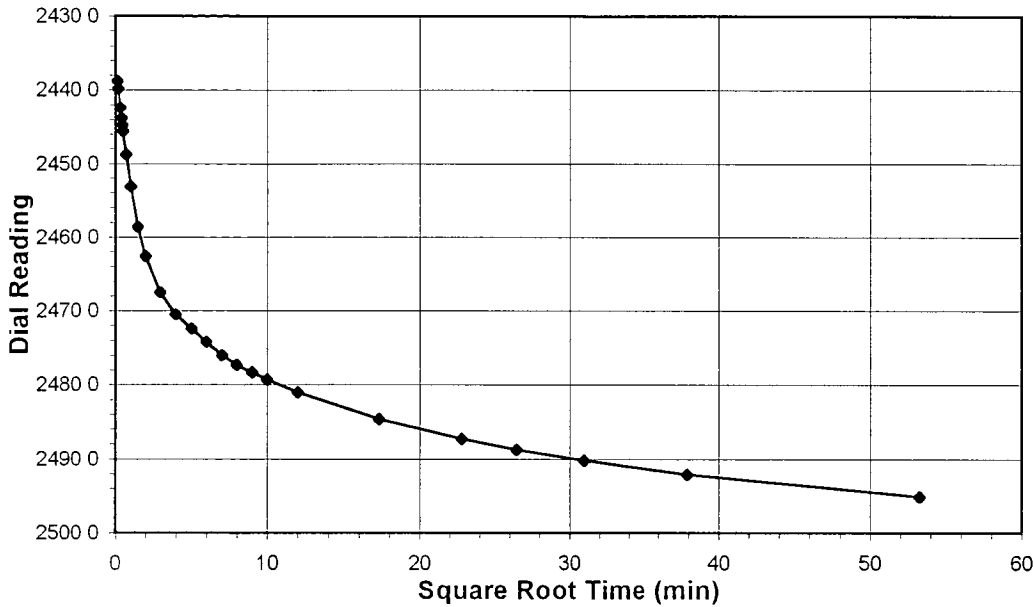


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

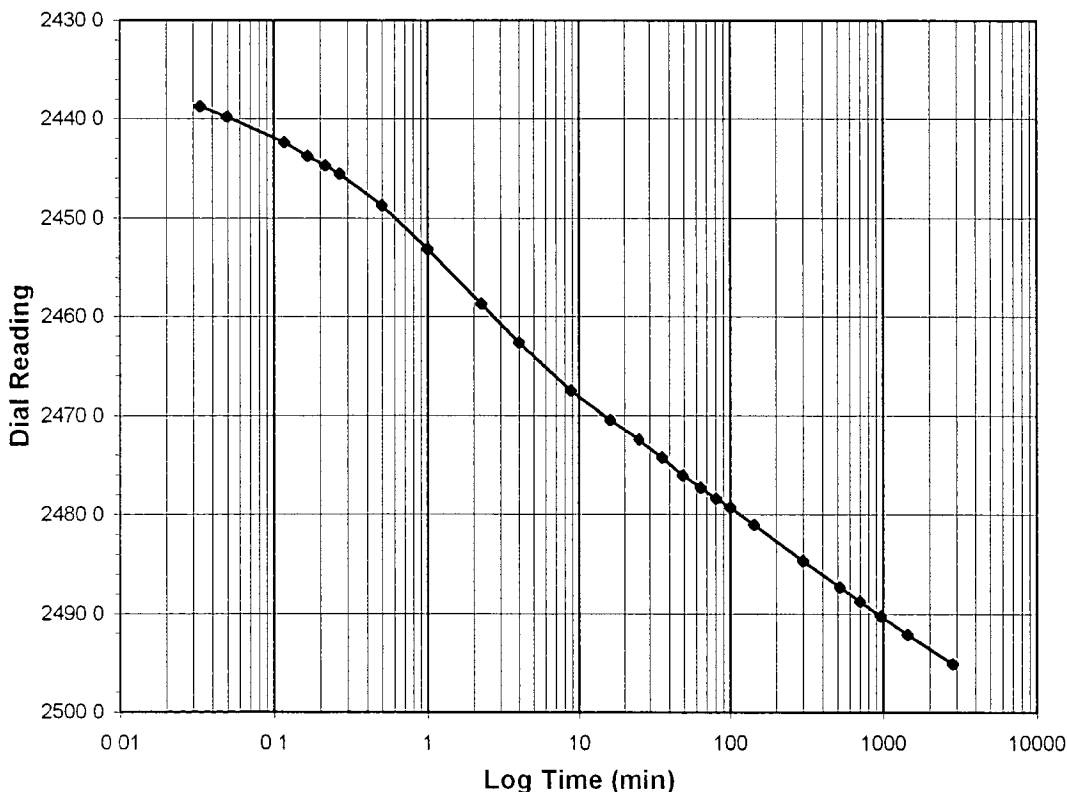
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PFP-70
Lab ID	2004-221-03-04	Visual Description	BROWN STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



<b>Test Load</b>	(tsf)	<b>0.5-1.0</b>
<b>Final Reading</b>	(div)	<b>2495.1</b>
Consolidometer No.		3
1 Division	(in)	0.0001
Start Date		10/16/04
Start Time		10:28:43

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>2423.4</b>
0.03	2438.8
0.05	2439.8
0.12	2442.4
0.17	2443.7
0.22	2444.7
0.27	2445.5
0.50	2448.7
1.00	2453.1
2.25	2458.7
4.00	2462.6
8.78	2467.5
16.00	2470.5
25.00	2472.4
36.00	2474.2
49.00	2476.0
64.00	2477.3
81.00	2478.4
100.00	2479.3
144.00	2481.0
300.00	2484.6
520.00	2487.3
700.02	2488.7
960.00	2490.2
1440.00	2492.1
2838.37	2495.1



Tested By *TM* Date *10/16/04* Checked By *GU* Date *10/26/04*

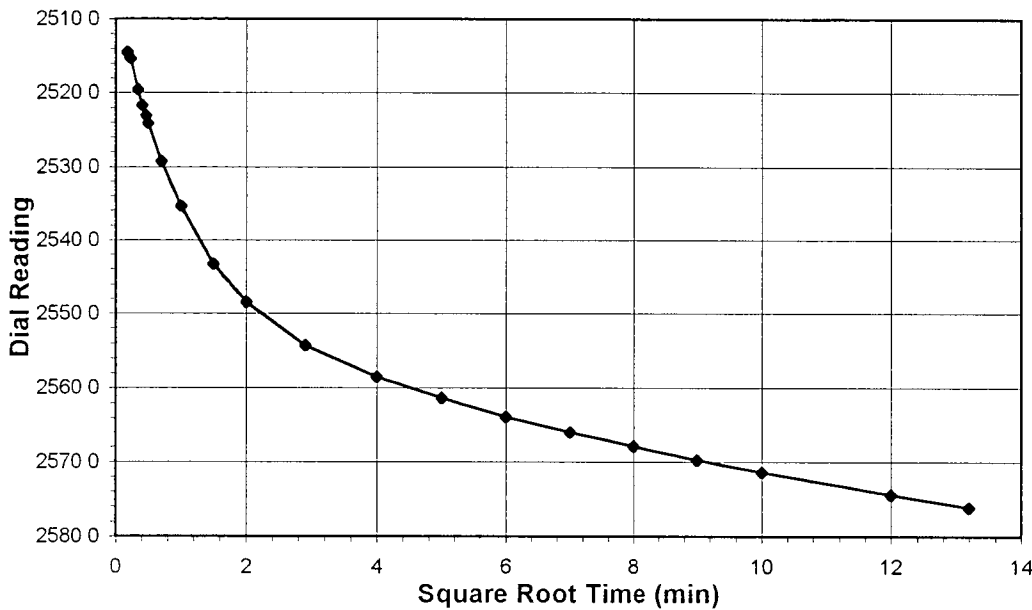


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PPF-40
Lab ID	2004-221-03-04	Visual Description	BROWN STABILIZED MATERIAL

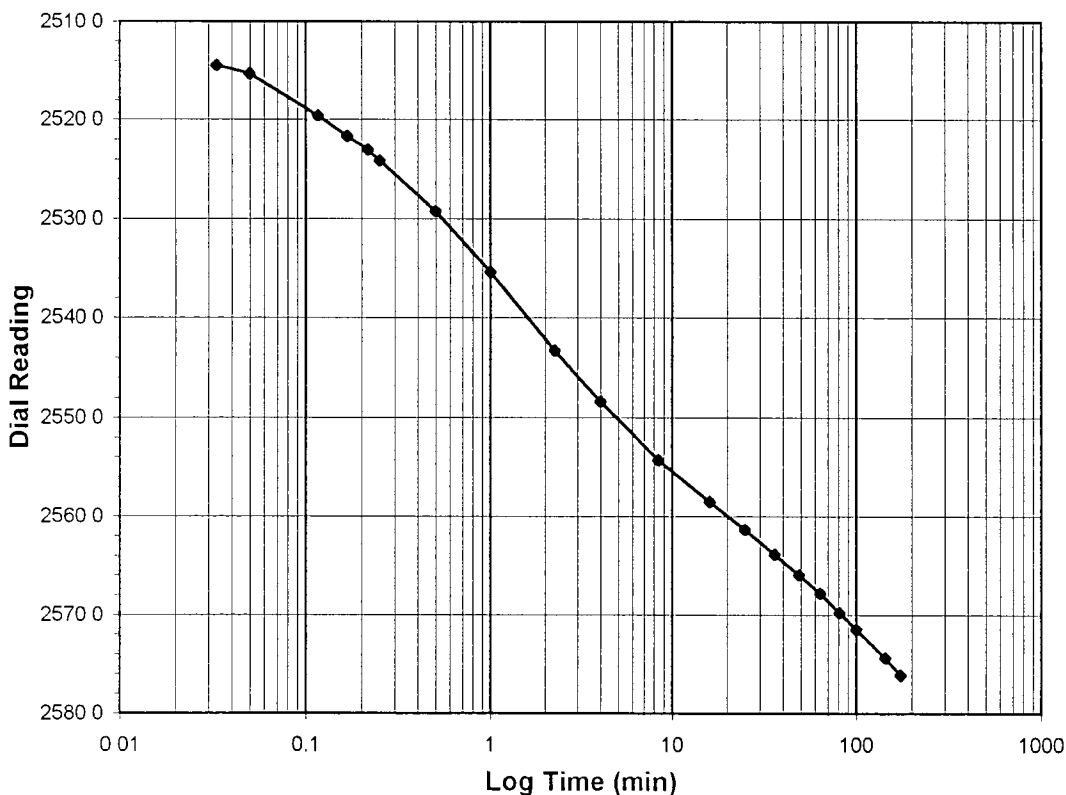
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



<b>Test Load (tsf)</b>	<b>1.0-2.0</b>
<b>Final Reading (div)</b>	<b>2576.1</b>
Consolidometer No.	3
1 Division (in)	0.0001

Start Date	10/18/04
Start Time	10:00:18

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>2495.1</b>
0.03	2514.5
0.05	2515.3
0.12	2519.6
0.17	2521.7
0.22	2523.0
0.25	2524.1
0.50	2529.3
1.00	2535.4
2.25	2543.3
4.00	2548.4
8.43	2554.3
16.02	2558.5
25.00	2561.4
36.00	2563.9
49.00	2566.0
64.00	2567.8
81.00	2569.7
100.00	2571.4
144.00	2574.4
174.12	2576.1



Tested By **TM** Date **10/18/04** Checked By **GU** Date **10/26/04**

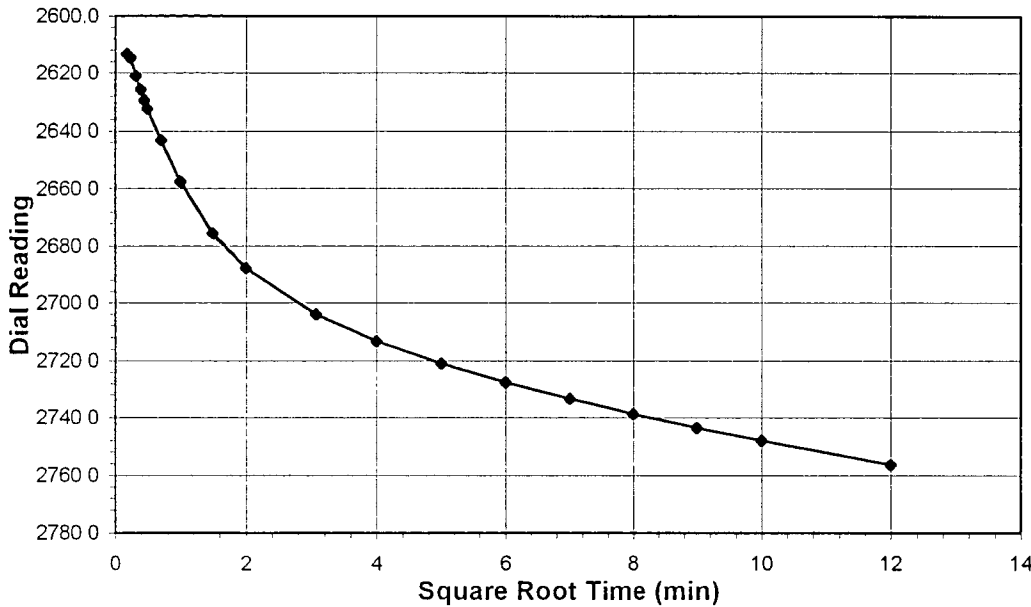


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PFP-40
Lab ID	2004-221-03-04	Visual Description	BROWN STABILIZED MATERIAL

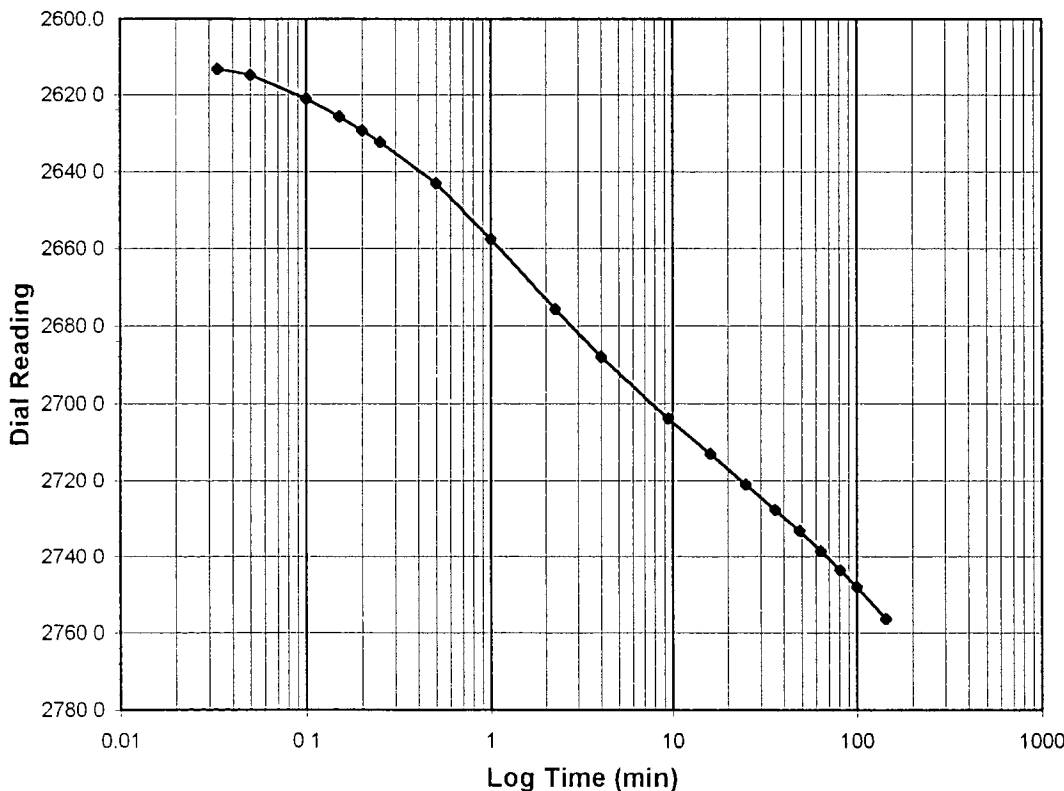
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	2.0-4.0
Final Reading (div)	2756.4
Consolidometer No.	3
1 Division (in)	0.0001

Start Date	10/18/04
Start Time	13:07:59

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>2576.1</b>
0.03	2613.2
0.05	2614.6
0.10	2621.0
0.15	2625.6
0.20	2629.3
0.25	2632.3
0.50	2643.0
1.00	2657.5
2.25	2675.6
4.00	2687.9
9.45	2703.9
16.00	2713.1
25.00	2721.1
36.00	2727.7
49.00	2733.3
64.00	2738.6
81.00	2743.6
100.00	2748.0
144.00	2756.4



Tested By *TM* Date *10/18/04* Checked By *GU* Date *10/26/04*

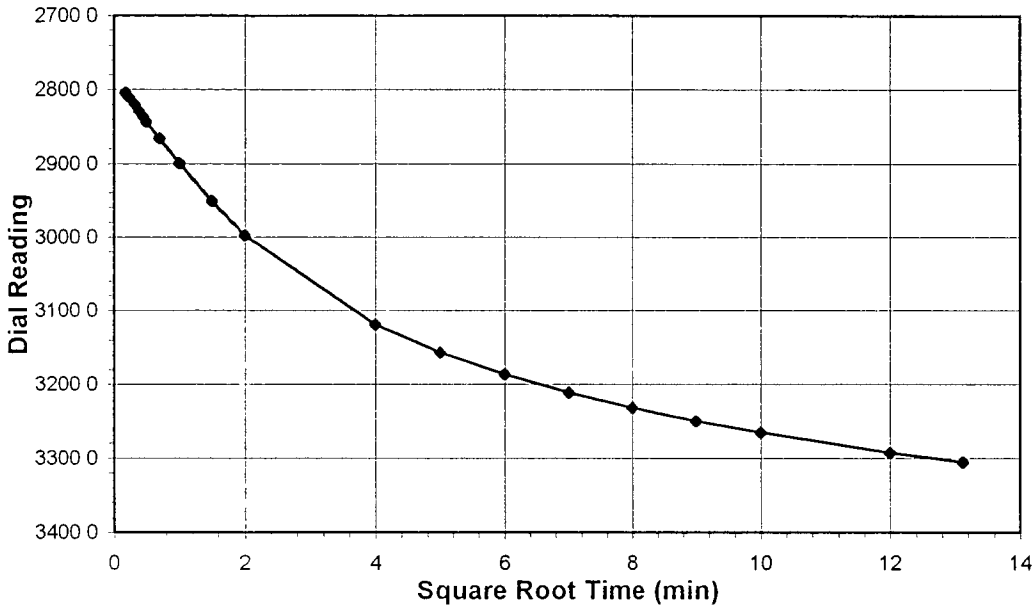


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PFP-40
Lab ID	2004-221-03-04	Visual Description	BROWN STABILIZED MATERIAL

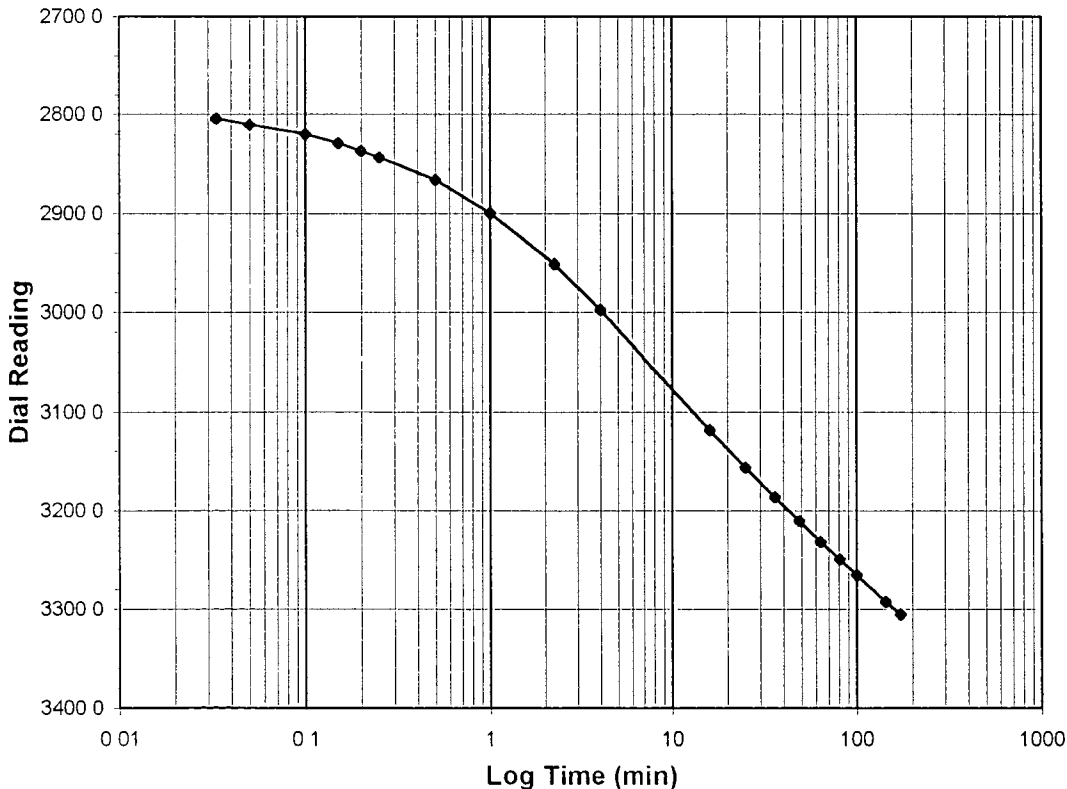
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	4.0-8.0
Final Reading (div)	3305.4
Consolidometer No.	3
1 Division (in)	0.0001

Start Date	10/19/04
Start Time	10:29:22

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<i>2756.4</i>
0.03	2804.4
0.05	2809.8
0.10	2819.9
0.15	2829.1
0.20	2836.7
0.25	2843.3
0.50	2865.9
1.00	2899.5
2.25	2951.3
4.00	2997.2
16.00	3118.6
25.00	3156.5
36.00	3186.3
49.00	3210.5
64.00	3231.3
81.00	3249.2
100.00	3265.0
144.00	3292.8
172.07	3305.4



Tested By TM Date 10/19/04 Checked By GJ Date 10/26/04



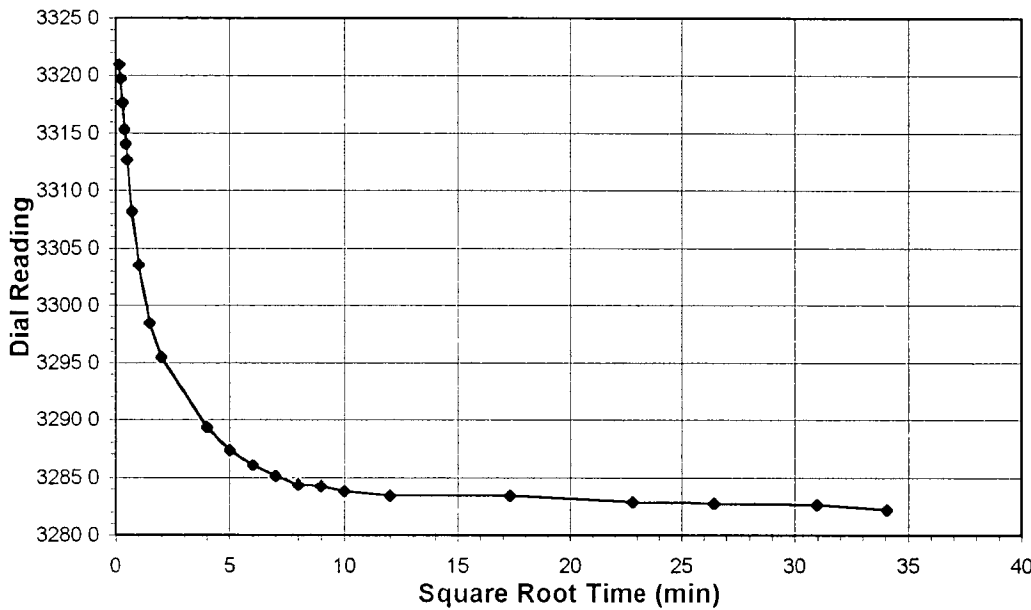


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

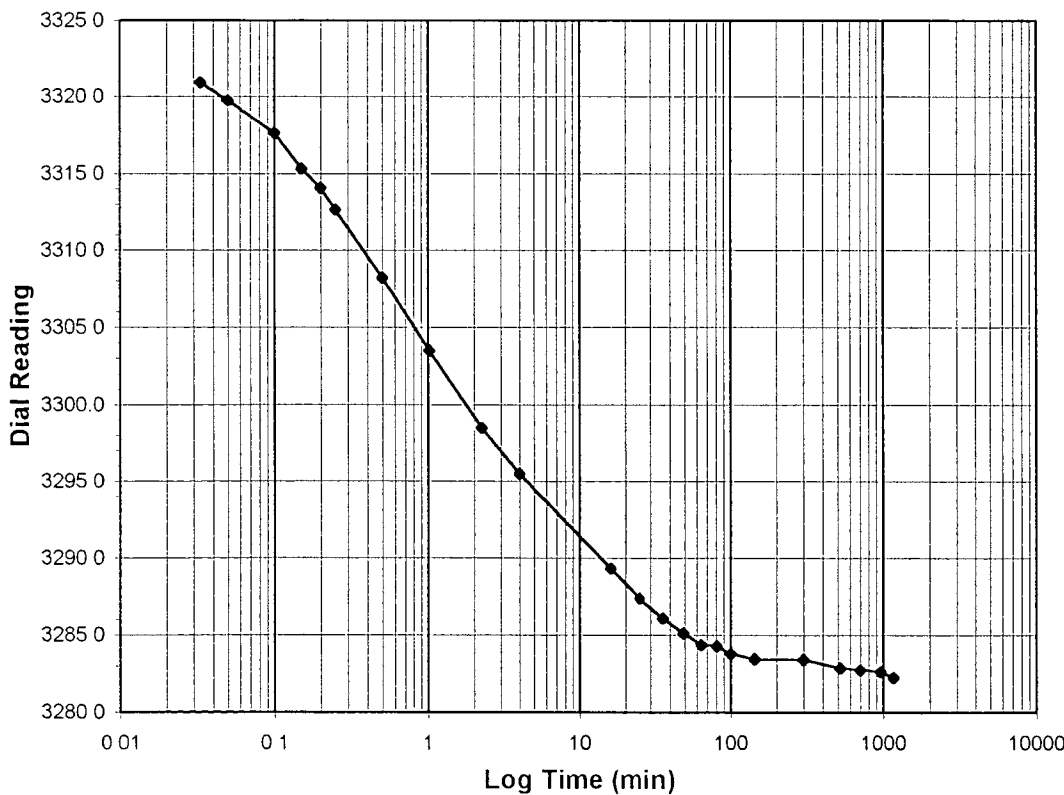
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PFP-40
Lab ID	2004-221-03-04	Visual Description	BROWN STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	8.0-4.0
Final Reading (div)	3282.2
Consolidometer No.	3
1 Division (in)	0.0001
Start Date	10/19/04
Start Time	14:58:33

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>3305.4</b>
0.03	3320.9
0.05	3319.8
0.10	3317.6
0.15	3315.3
0.20	3314.1
0.25	3312.7
0.50	3308.2
1.02	3303.5
2.25	3298.5
4.00	3295.5
16.00	3289.3
25.00	3287.4
36.00	3286.1
49.00	3285.1
64.00	3284.4
81.00	3284.3
100.00	3283.8
144.00	3283.4
300.00	3283.4
520.00	3282.9
700.00	3282.7
960.00	3282.6
1160.78	3282.2



Tested By *TM* Date *10/19/04* Checked By *GU* Date *10/26/04*

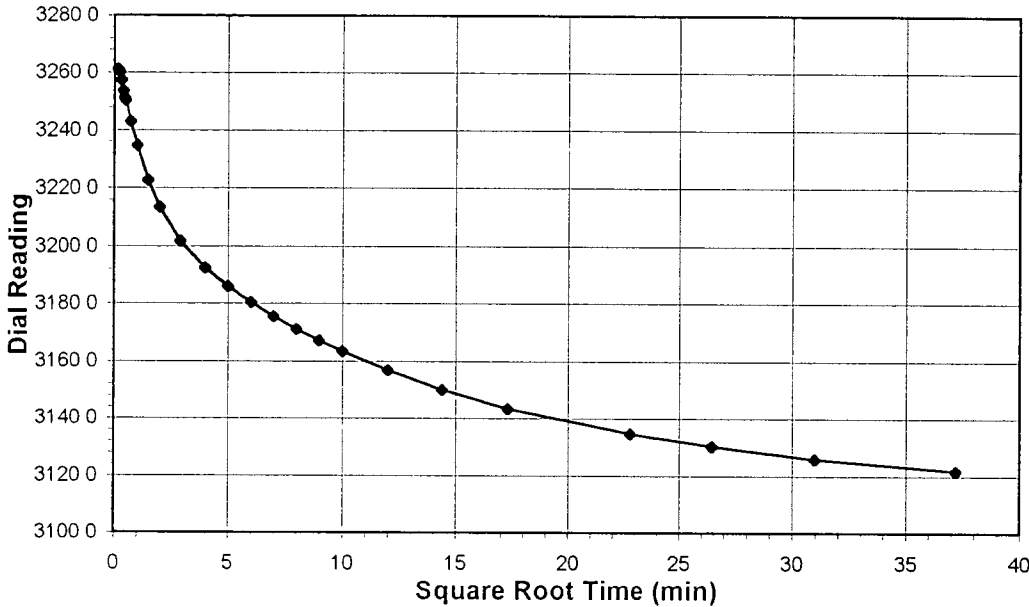


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

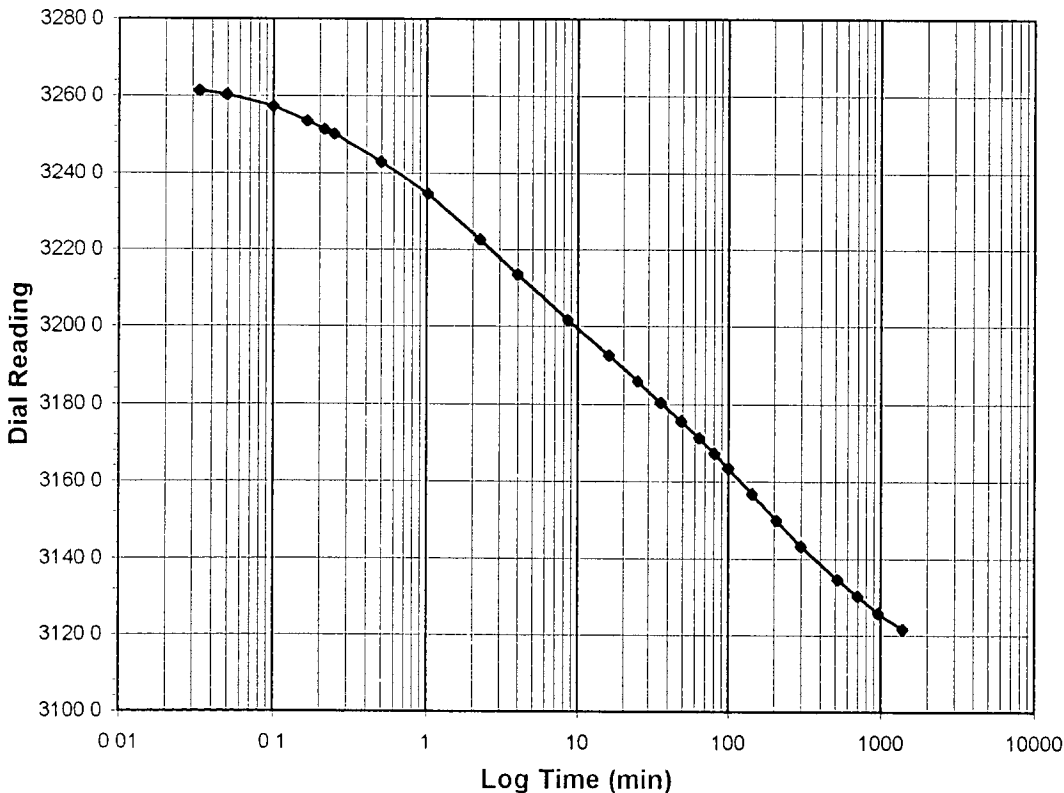
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PFP-40
Lab ID	2004-221-03-04	Visual Description	BROWN STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	4.0-1.0
Final Reading (div)	3121.6
Consolidometer No.	3
1 Division (in)	0.0001
Start Date	10/20/04
Start Time	10:23:52

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>3282.2</b>
0.03	3261.3
0.05	3260.4
0.10	3257.4
0.17	3253.6
0.22	3251.3
0.25	3250.3
0.50	3243.1
1.02	3234.7
2.25	3222.7
4.00	3213.5
8.58	3201.7
16.00	3192.5
25.00	3186.0
36.00	3180.4
49.00	3175.5
64.00	3171.3
81.00	3167.3
100.00	3163.5
144.00	3156.9
207.15	3149.9
300.00	3143.3
520.00	3134.6
700.00	3130.2
960.00	3125.9
1382.90	3121.6



Tested By TM Date 10/20/04 Checked By GU Date 10/26/04

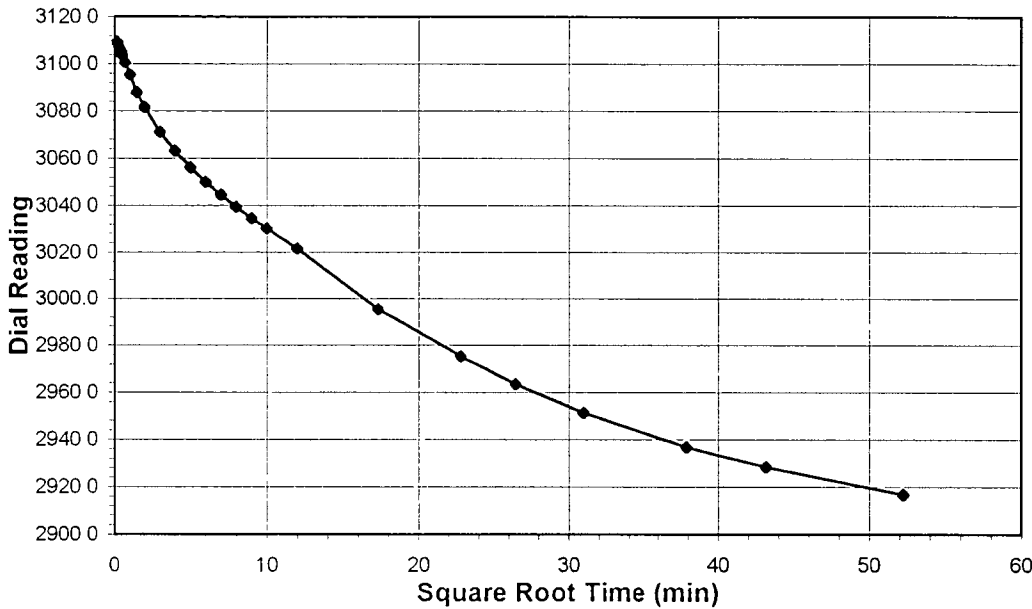


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PFP-40
Lab ID	2004-221-03-04	Visual Description	BROWN STABILIZED MATERIAL

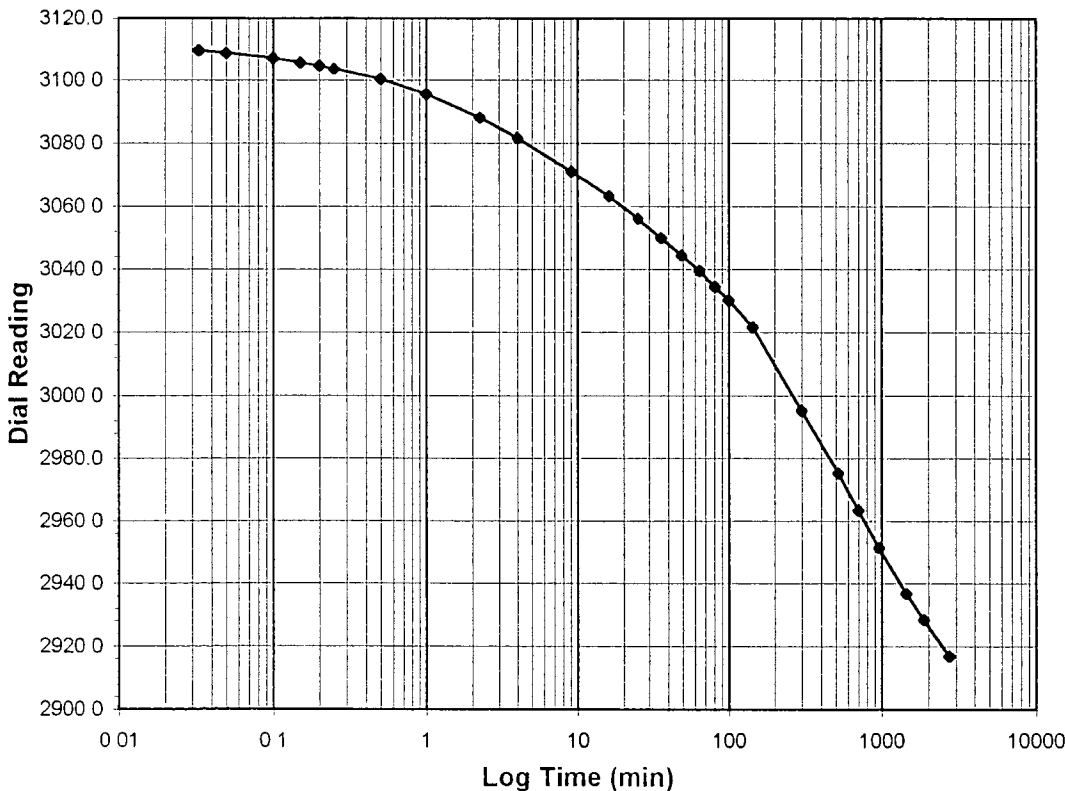
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	1.0-0.25
Final Reading (div)	2916.9
Consolidometer No.	3
1 Division (in)	0.0001

Start Date	10/21/04
Start Time	9:44:30

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>3121.6</b>
0.03	3109.5
0.05	3108.7
0.10	3107.1
0.15	3105.8
0.20	3104.8
0.25	3103.8
0.50	3100.5
1.00	3095.5
2.25	3088.0
4.00	3081.6
9.08	3071.0
16.00	3063.2
25.00	3056.1
36.00	3049.9
49.00	3044.5
64.00	3039.6
81.00	3034.6
100.00	3030.2
144.00	3021.7
300.00	2995.3
520.00	2975.3
700.00	2963.4
960.00	2951.4
1440.00	2936.8
1864.70	2928.4
2732.55	2916.9



Tested By *TM* Date *10/21/04* Checked By *GU* Date *10/26/04*

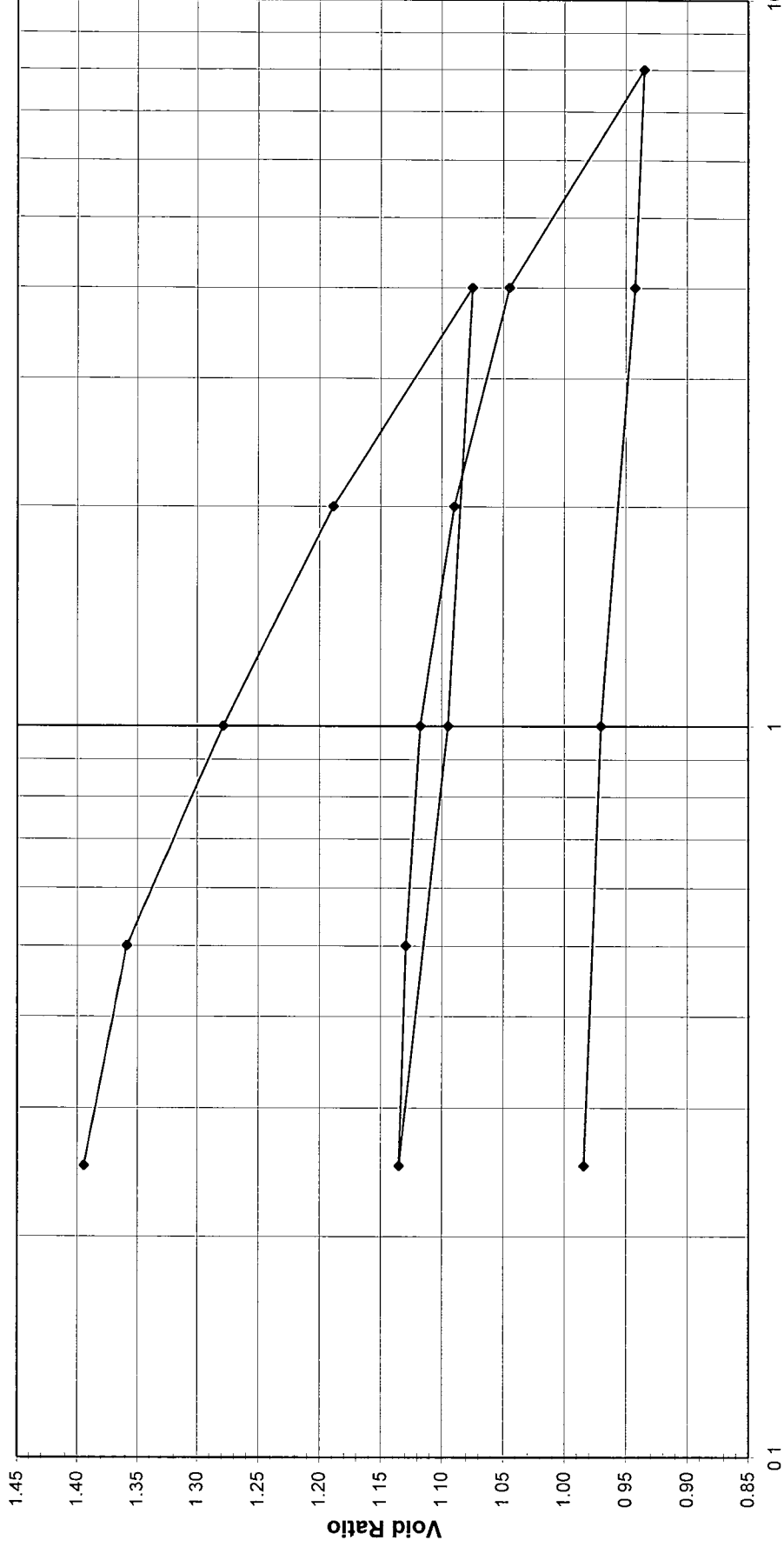


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 / AASHTO T216-03 (SOP-S24)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Reference	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PFP-17 POST S/T
Lab ID	2004-221-03-06	Visual Description	BROWN STABILIZED MATERIAL (RECEIVED LOOSE IN TUBE)

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Log P (tsf)

10

1

0.1

Tested By TM Date 9/22/04 Approved By DB Date 10/18/04

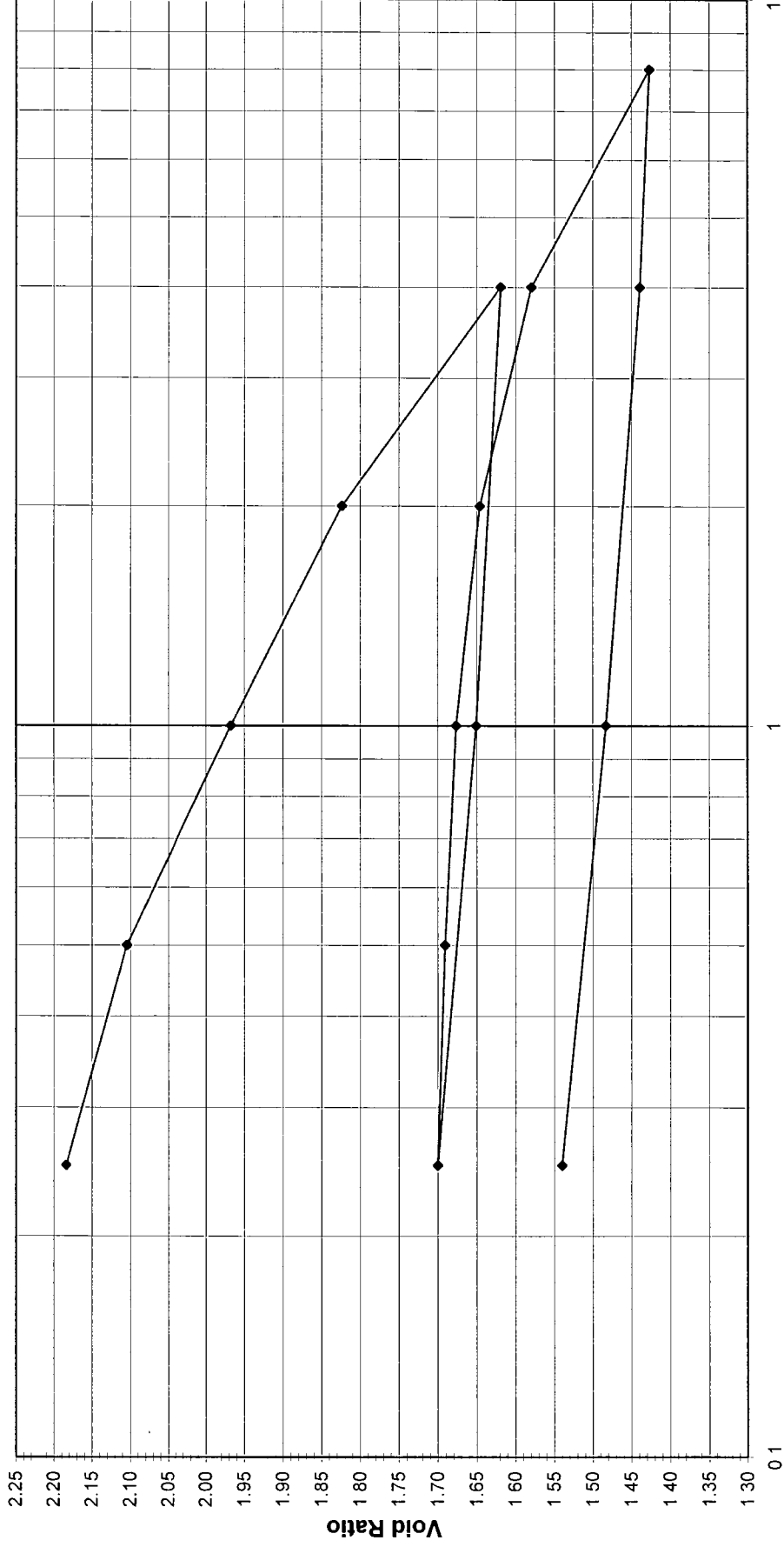


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 / AASHTO T216-03 (SOP-S24)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Reference	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PFP-47
Lab ID	2004-221-03-05	Visual Description	BROWN STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Log P (tsf)

Tested By TM Date 10/25/04 Approved By J.B Date 11/12/04



# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 / AASHTO T216-03 (SOP-S24)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Reference	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PPF-47
Lab ID	2004-221-03-05	Visual Description	BROWN STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED

**Consolidometer No.** 3

**1 Division** = 0.0001 (in)

**Sample Properties**

	<u>Initial</u>	<u>Final</u>
Water Content	40	01
Tare Number	136.77	154.86
Wt. Tare & WS (gm)	121.47	120.39
Wt. Tare & DS (gm)	15.30	34.47
Wt. Water (gm)	101.54	51.21
Wt. Tare (gm)	19.93	69.18
Wt. DS (gm)	76.77	49.83
Water Content (%)		
Sample Diameter (in)	2.5	2.5
Sample Height (in)	1	0.778
Sample Volume (cc)	80.44	62.57
Wt. Wet Sample + Ring (gm)	263.48	245.56
Wt. of Ring (gm)	145.91	145.91
Wt. of Wet Sample (gm)	117.57	99.65
Wet Density (pcf)	91.20	99.38
Wet Density (g/cc)	1.46	1.59
Water Content (%)	76.77	49.83
Wt. of Dry Sample (gm)	66.51	66.51
Dry Density (pcf)	51.59	66.33
Dry Density (g/cc)	0.83	1.06
Void Ratio	2.2655	1.5400
Saturation (%)	91.49	87.36
Specific Gravity	2.70	Assumed

**Test Data Summary**

Applied Pressure (tsf)	Final Dial Reading (div)	Machine Deflection (div)	Corrected Reading (div)	Height of Sample (mm)	Volume (cc)	Dry Density (g/cc)	Void Ratio
Seating	0	0	0	25.400	80.440	0.82684	2.26545
0.25	251.0	0.8	250.2	24.765	78.428	0.84805	2.18377
0.5	495.9	2.5	493.5	24.147	76.471	0.86976	2.10432
1	920.0	7.6	912.4	23.082	73.100	0.90986	1.96750
2	1369.5	15.6	1353.9	21.961	69.549	0.95631	1.82335
4	2008.7	28.7	1980.0	20.371	64.512	1.03097	1.61888
1	1894.2	11.6	1882.6	20.618	65.296	1.01860	1.65070
0.25	1735.3	4.4	1730.9	21.004	66.517	0.99991	1.70024
0.5	1764.3	4.8	1759.5	20.931	66.286	1.00339	1.69088
1	1812.7	8.1	1804.7	20.816	65.923	1.00891	1.67615
2	1913.5	16.3	1897.2	20.581	65.179	1.02044	1.64593
4	2128.6	27.5	2101.1	20.063	63.539	1.04677	1.57936
8	2612.1	43.0	2569.1	18.874	59.774	1.11271	1.42652
4	2570.1	38.7	2531.5	18.970	60.077	1.10709	1.43882
1	2412.9	16.2	2396.7	19.312	61.160	1.08748	1.48281
0.25	2229.5	7.8	2221.7	19.757	62.568	1.06301	1.53996

Tested By TM Date 10/25/04 Input Checked By CU Date 11/12/04

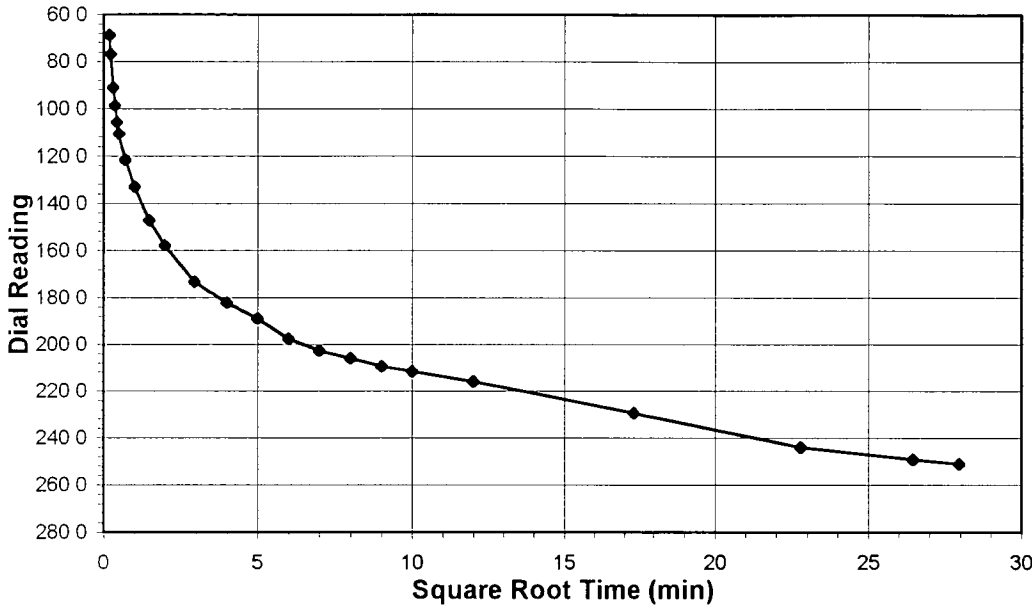


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PPF-47
Lab ID	2004-221-03-05	Visual Description	BROWN STABILIZED MATERIAL

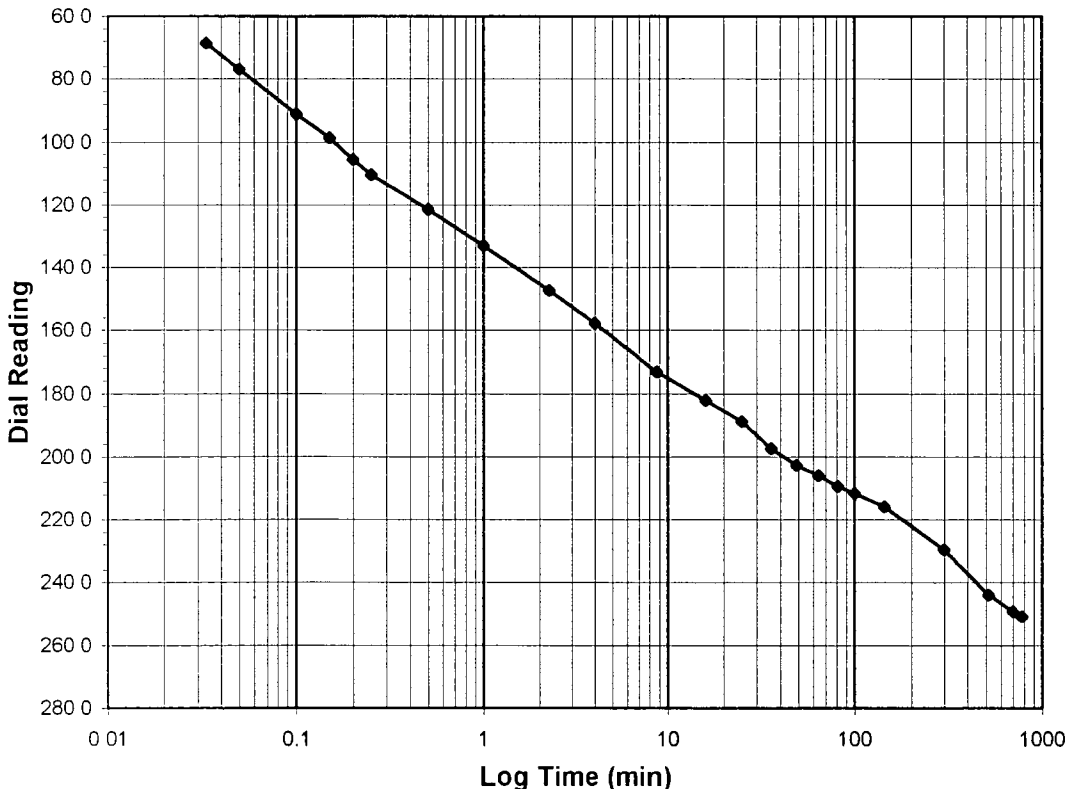
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 0-0.25  
 Final Reading (div) 251.0  
 Consolidometer No. 3  
 1 Division (in) 0.0001

Start Date 10/25/04  
 Start Time 17:02:19

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<i>0.0</i>
0.03	68.6
0.05	76.8
0.10	91.1
0.15	98.7
0.20	105.6
0.25	110.4
0.50	121.5
1.00	133.0
2.25	147.3
4.00	157.7
8.78	173.1
16.00	182.1
25.00	188.9
36.00	197.4
49.00	202.7
64.00	205.9
81.00	209.5
100.00	211.5
144.00	215.9
300.00	229.6
520.00	244.1
700.00	249.3
781.55	251.0



Tested By *TM* Date 10/25/04 Checked By *GU* Date 11/12/04

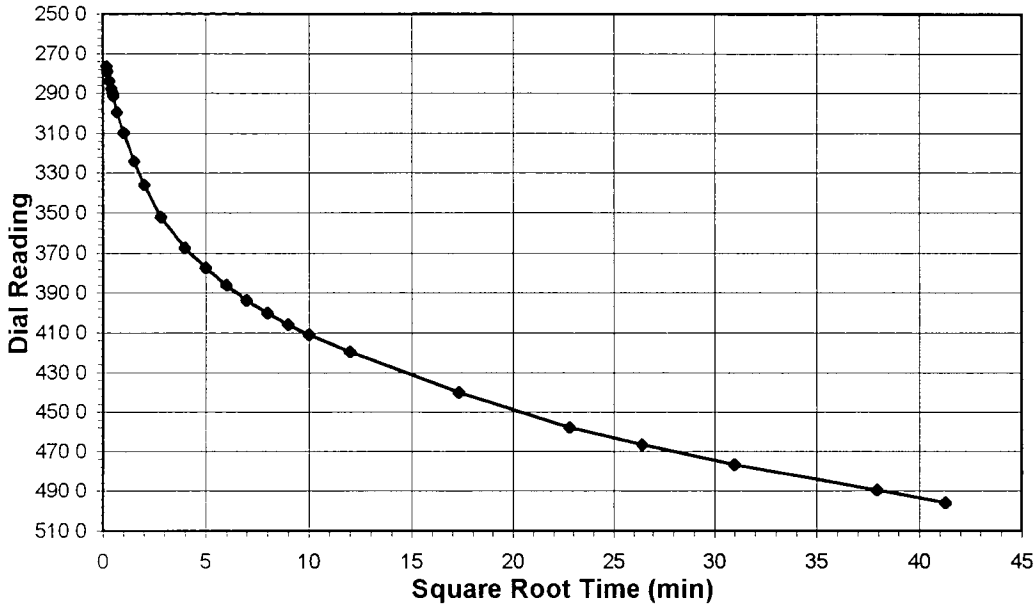


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PFP-47
Lab ID	2004-221-03-05	Visual Description	BROWN STABILIZED MATERIAL

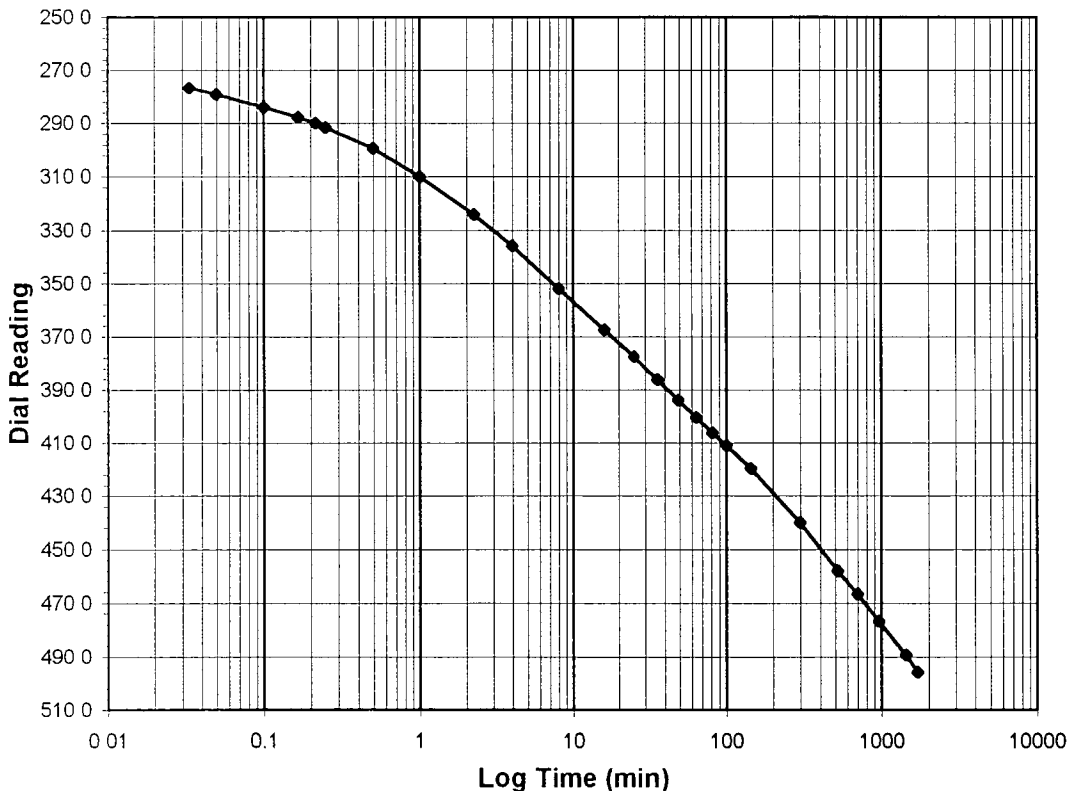
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.25-0.5
Final Reading (div)	495.9
Consolidometer No.	3
1 Division (in)	0.0001

Start Date	10/26/04
Start Time	6:12:47

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>251.0</b>
0.03	276.6
0.05	279.1
0.10	284.0
0.17	287.7
0.22	290.0
0.25	291.5
0.50	299.4
1.00	309.8
2.25	324.2
4.00	335.9
8.05	352.1
16.00	367.4
25.00	377.4
36.00	386.1
49.00	393.8
64.00	400.2
81.00	406.0
100.00	411.0
144.00	419.6
300.00	440.1
520.00	458.0
700.00	466.6
960.00	476.8
1440.00	489.4
1703.77	495.9



Tested By TM Date 10/26/04 Checked By G.L. Date 11/2/04



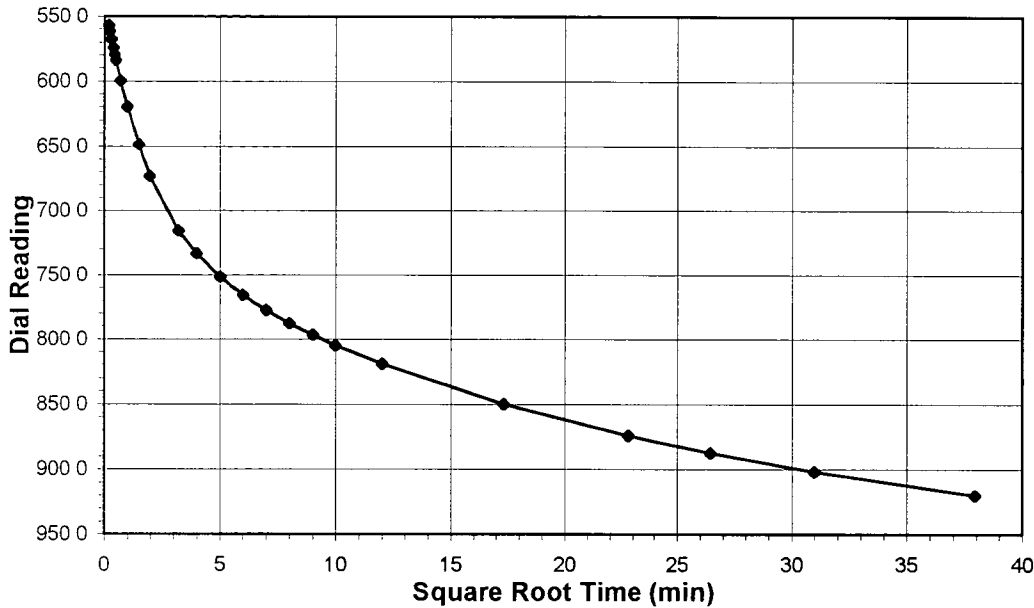


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PPF-47
Lab ID	2004-221-03-05	Visual Description	BROWN STABILIZED MATERIAL

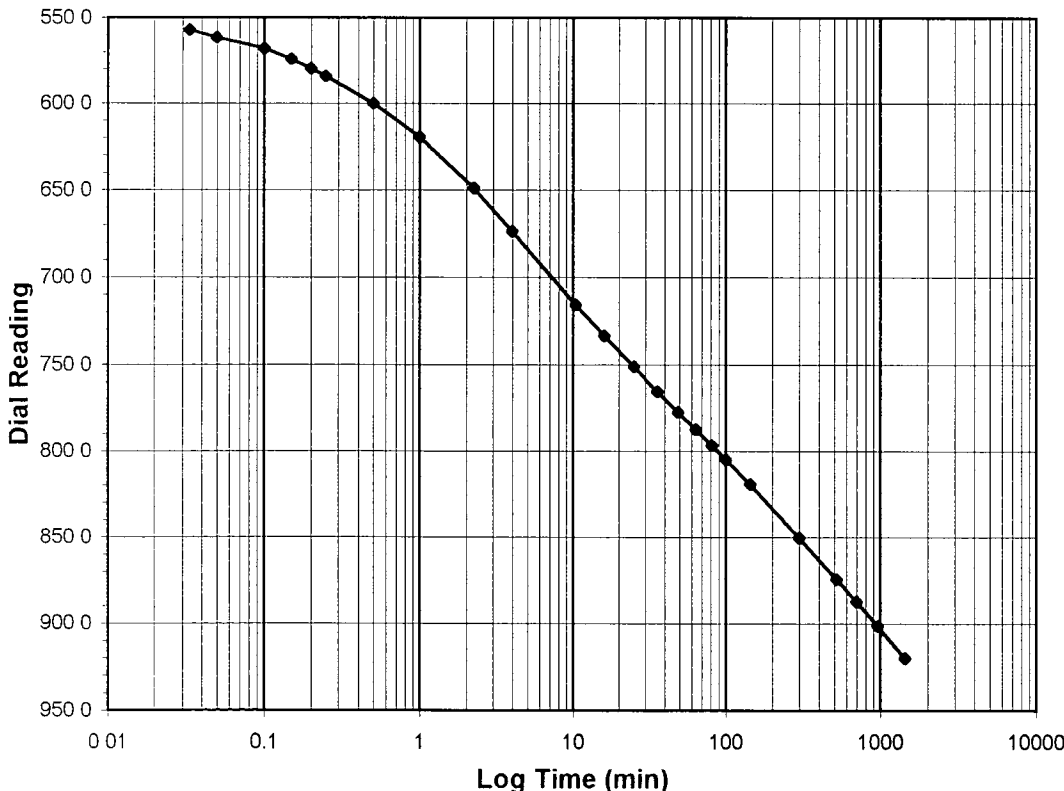
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 0.5-1.0  
 Final Reading (div) 920.0  
 Consolidometer No. 3  
 1 Division (in) 0.0001

Start Date 10/27/04  
 Start Time 11:03:53

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>495.9</b>
0.03	557.1
0.05	561.4
0.10	567.7
0.15	574.0
0.20	579.5
0.25	584.0
0.50	599.8
1.00	619.6
2.25	648.8
4.00	673.5
10.38	715.7
16.00	733.5
25.00	751.3
36.00	765.7
49.00	777.4
64.00	787.7
81.00	796.7
100.00	804.8
144.00	819.4
300.00	850.4
520.00	874.5
700.00	887.6
960.02	901.7
1440.00	920.0



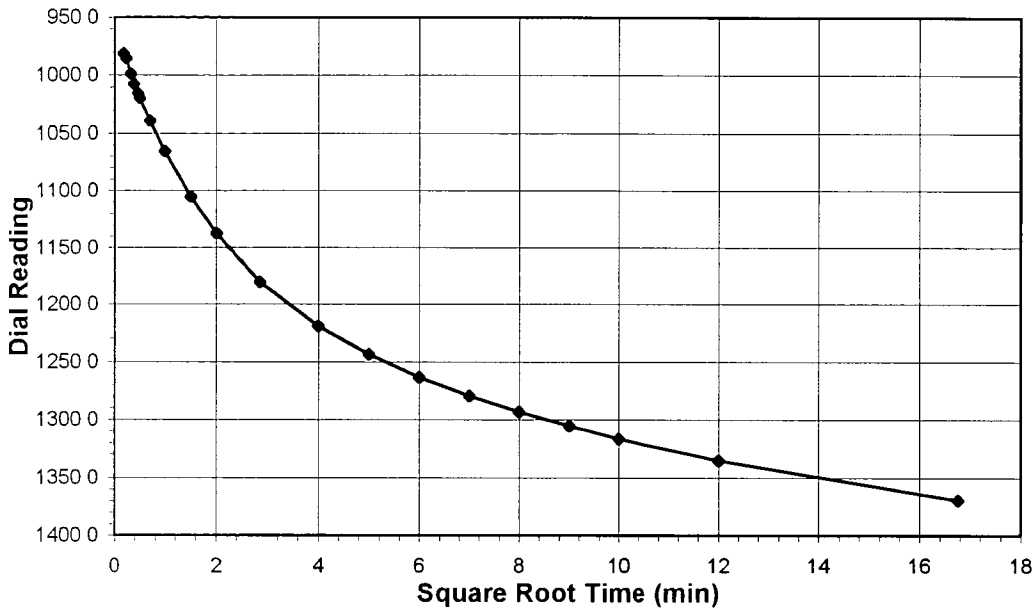
Tested By TM Date 10/27/04 Checked By Date 11/12/04

# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PPF-47
Lab ID	2004-221-03-05	Visual Description	BROWN STABILIZED MATERIAL

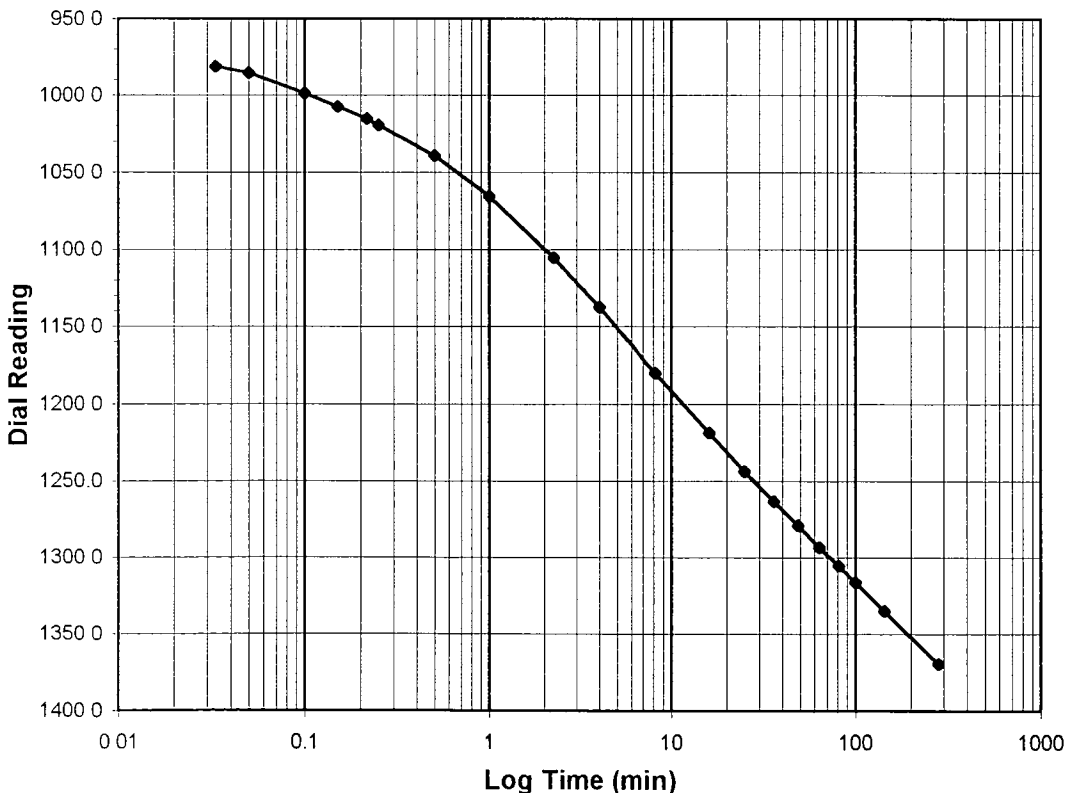
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	1.0-2.0
Final Reading (div)	1369.5
Consolidometer No.	3
1 Division (in)	0.0001

Start Date	10/28/04
Start Time	11:26:34

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>920.0</b>
0.03	981.1
0.05	985.6
0.10	998.7
0.15	1007.4
0.22	1015.5
0.25	1019.4
0.50	1039.0
1.00	1065.4
2.25	1105.3
4.00	1137.3
8.20	1180.4
16.00	1219.1
25.00	1243.8
36.00	1263.3
49.00	1279.5
64.00	1293.3
81.00	1305.4
100.00	1316.3
144.00	1335.2
280.83	1369.5



Tested By *TM* Date *10/28/04* Checked By *GO* Date *11/12/04*

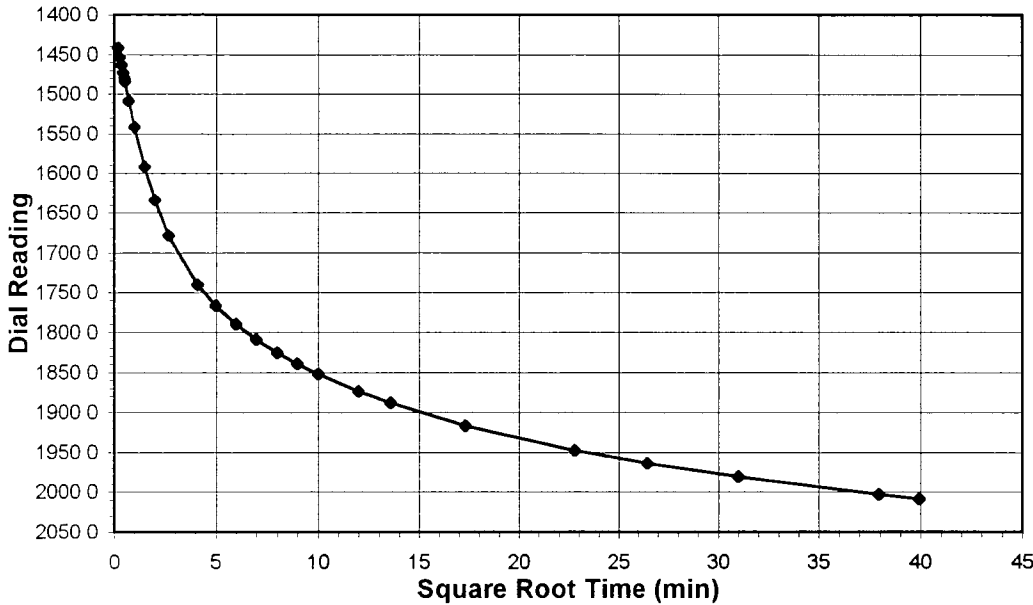


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PFP-47
Lab ID	2004-221-03-05	Visual Description	BROWN STABILIZED MATERIAL

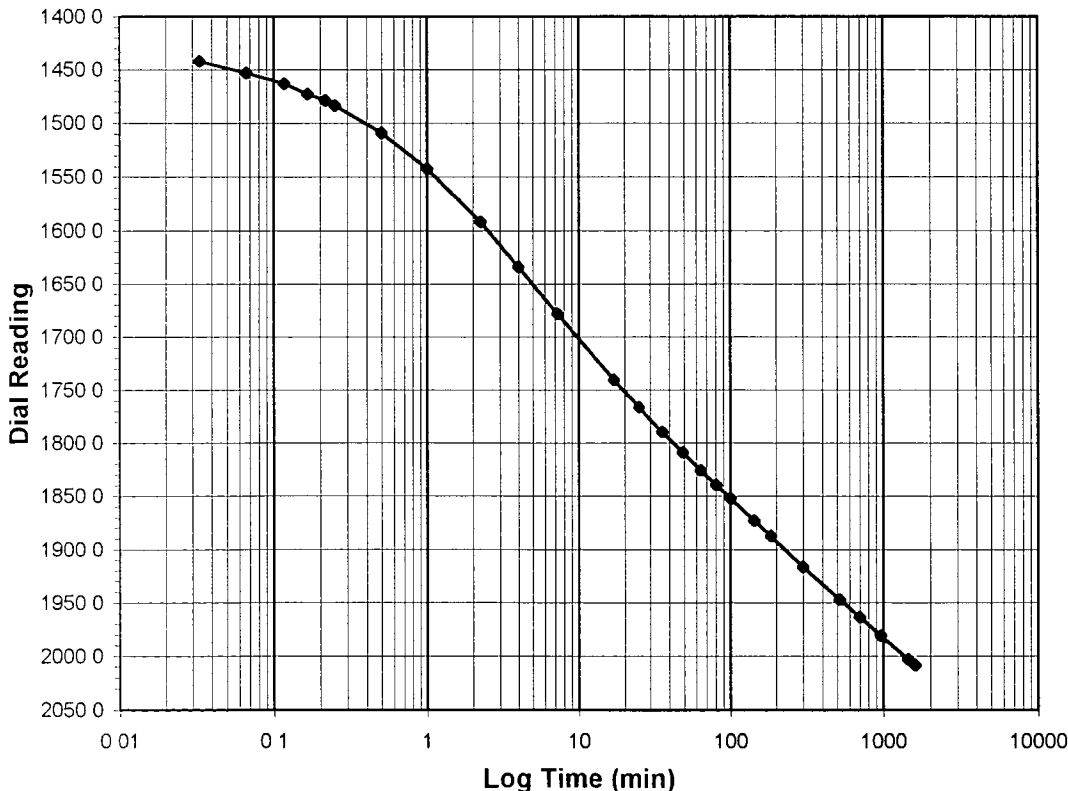
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 2.0-4.0  
 Final Reading (div) 2008.7  
 Consolidometer No. 3  
 1 Division (in) 0.0001

Start Date 10/29/04  
 Start Time 6:23:33

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>1369.5</b>
0.03	1441.9
0.07	1453.1
0.12	1463.1
0.17	1472.6
0.22	1479.0
0.25	1483.8
0.50	1508.6
1.00	1541.6
2.25	1592.0
4.00	1634.1
7.25	1678.7
16.97	1740.1
25.00	1766.4
36.00	1789.8
49.00	1809.1
64.00	1825.5
81.00	1839.6
100.00	1852.0
144.00	1873.4
184.45	1887.7
300.00	1916.3
520.00	1947.4
700.00	1963.5
960.00	1980.8
1440.00	2003.2
1594.83	2008.7



Tested By TM Date 10/29/04 Checked By C.O. Date 11/12/04

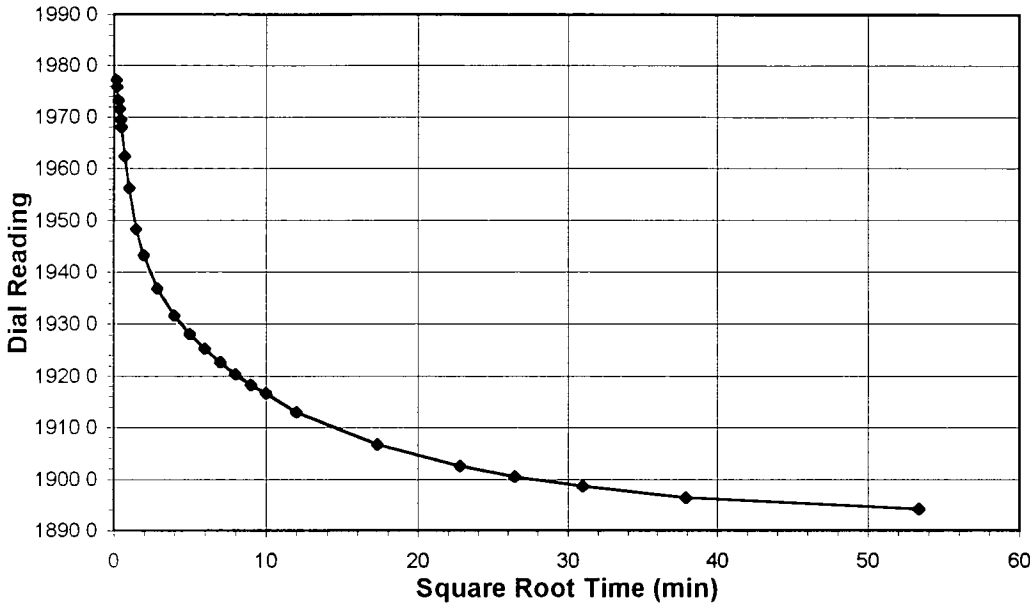


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PFP-47
Lab ID	2004-221-03-05	Visual Description	BROWN STABILIZED MATERIAL

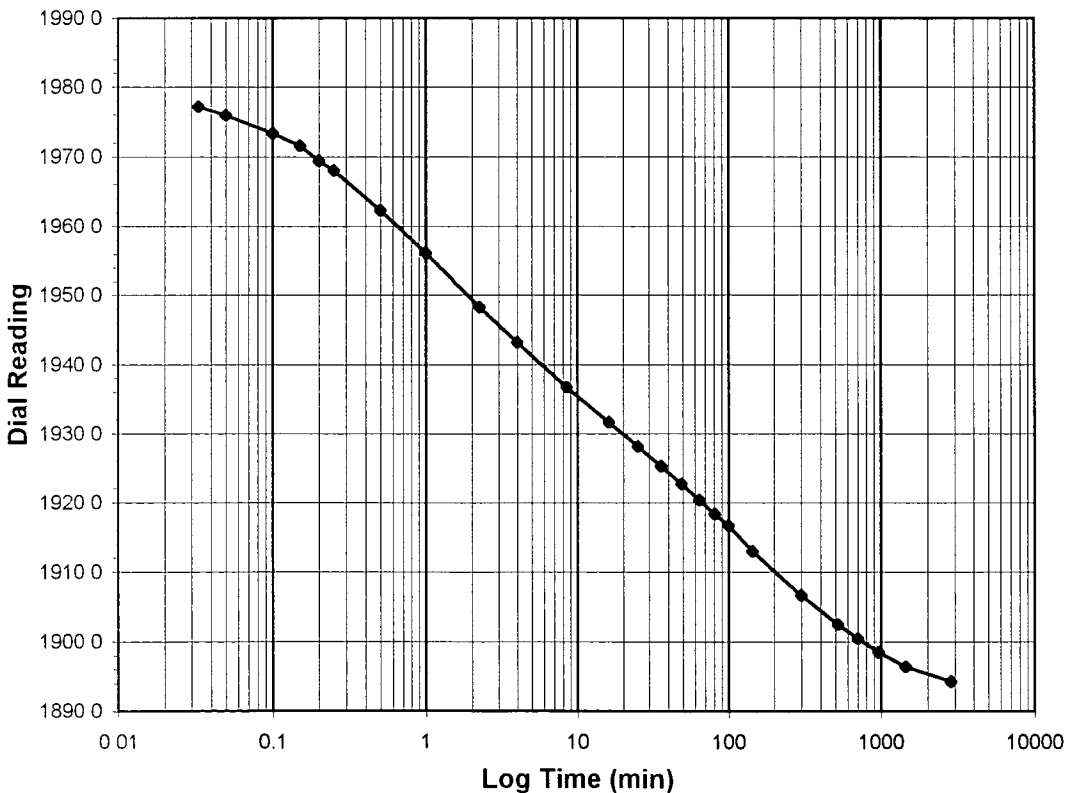
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 4.0-1.0  
 Final Reading (div) 1894.2  
 Consolidometer No. 3  
 1 Division (in) 0.0001

Start Date 10/30/04  
 Start Time 9:12:54

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>2008.7</b>
0.03	1977.2
0.05	1975.9
0.10	1973.3
0.15	1971.6
0.20	1969.5
0.25	1968.0
0.50	1962.3
1.00	1956.2
2.25	1948.3
4.00	1943.2
8.47	1936.8
16.00	1931.7
25.00	1928.1
36.00	1925.2
49.00	1922.7
64.00	1920.4
81.00	1918.3
100.00	1916.6
144.00	1912.9
300.00	1906.7
520.00	1902.5
700.00	1900.5
960.00	1898.6
1440.00	1896.4
2850.02	1894.2



Tested By TM Date 10/30/04 Checked By CV Date 11/2/04

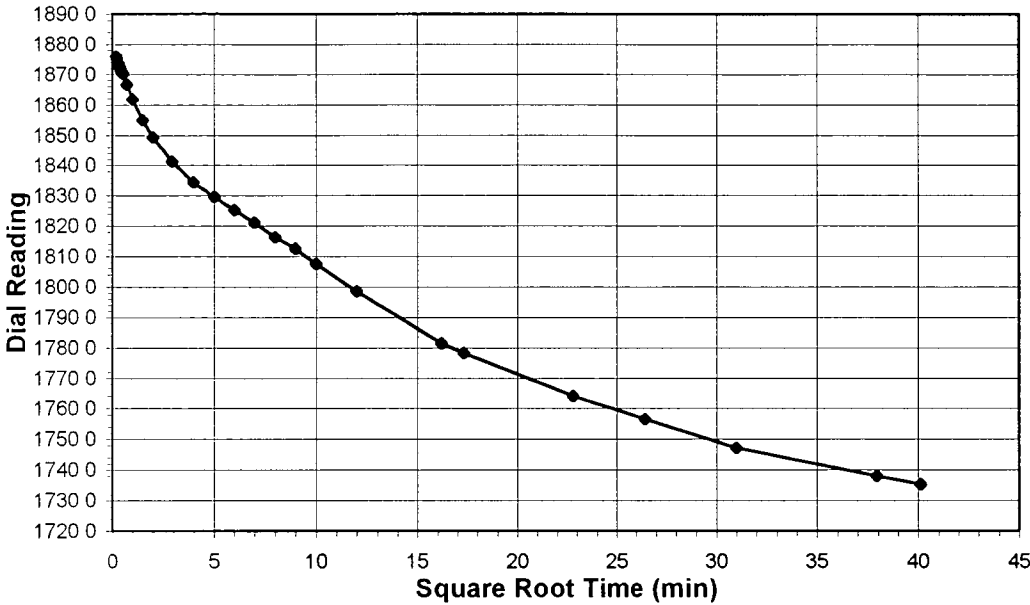


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

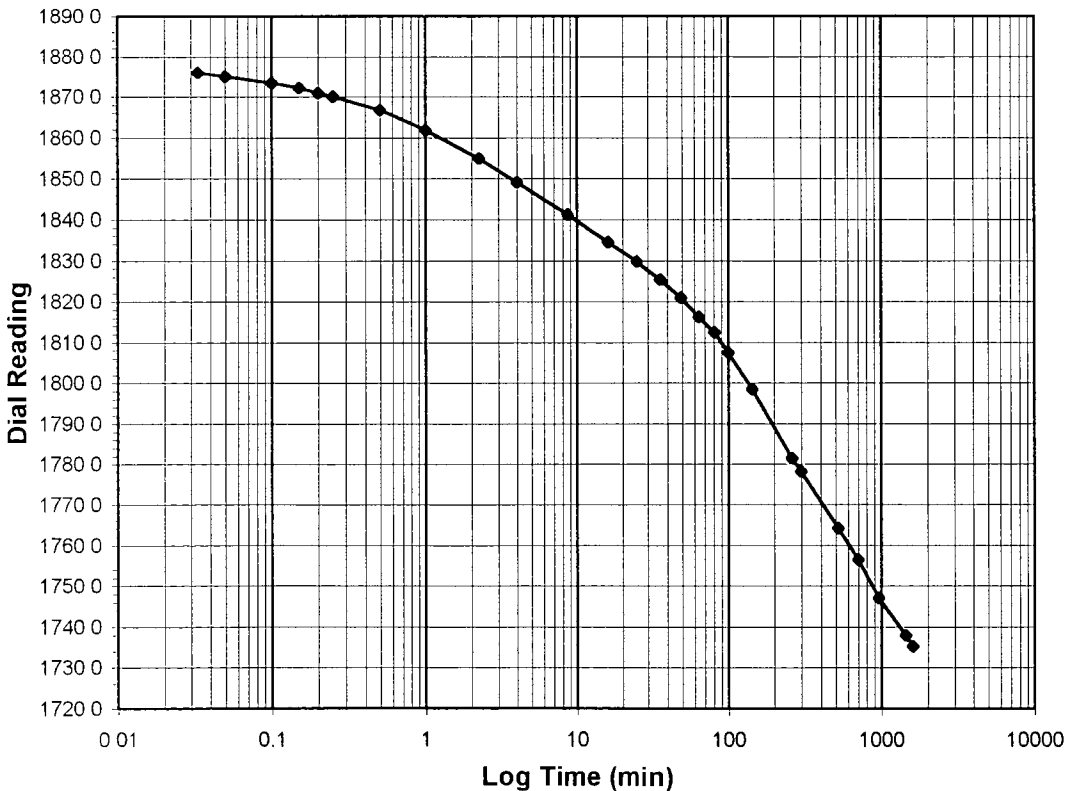
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PFP-47
Lab ID	2004-221-03-05	Visual Description	BROWN STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	1.0-0.25
Final Reading (div)	1735.3
Consolidometer No.	3
1 Division (in)	0.0001
Start Date	11/1/04
Start Time	8:58:49

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>1894.2</b>
0.03	1876.0
0.05	1875.1
0.10	1873.5
0.15	1872.2
0.20	1871.0
0.25	1870.1
0.50	1866.7
1.00	1861.8
2.25	1854.9
4.00	1849.2
8.62	1841.2
16.00	1834.6
25.00	1829.7
36.00	1825.3
49.00	1821.0
64.00	1816.3
81.00	1812.5
100.00	1807.5
144.00	1798.5
262.17	1781.5
300.00	1778.2
520.00	1764.1
700.00	1756.6
960.00	1747.1
1440.00	1738.0
1610.10	1735.3



Tested By *TM* Date *11/1/04* Checked By *GU* Date *11/12/04*

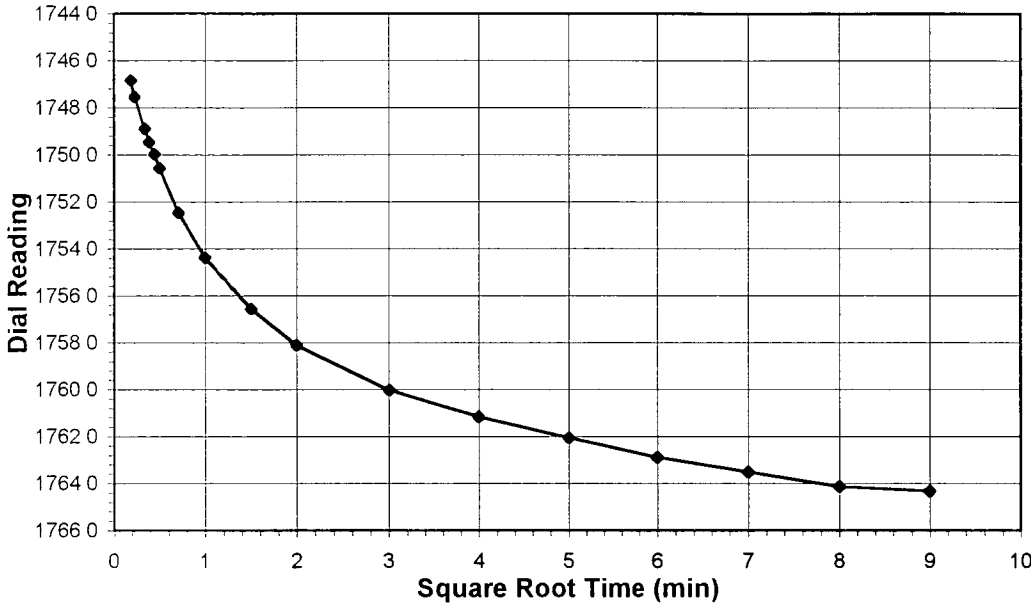


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PFP-47
Lab ID	2004-221-03-05	Visual Description	BROWN STABILIZED MATERIAL

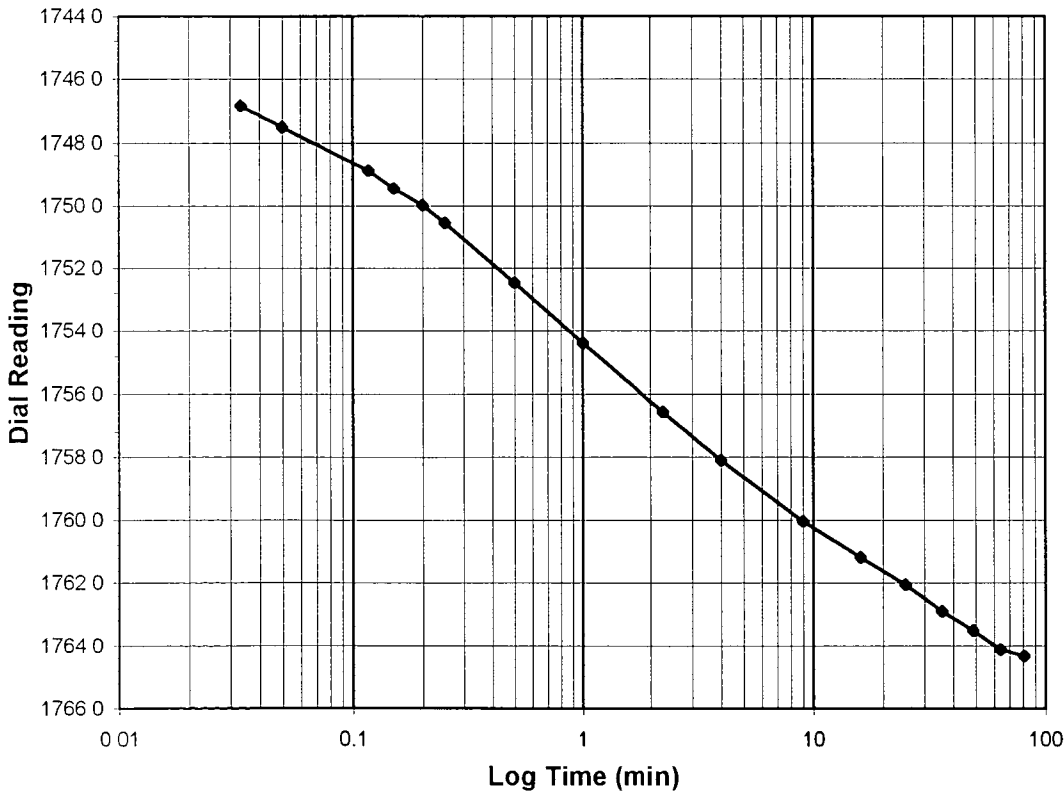
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.25-0.5
Final Reading (div)	1764.3
Consolidometer No.	3
1 Division (in)	0.0001

Start Date	11/2/04
Start Time	11:56:29

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>1735.3</b>
0.03	1746.9
0.05	1747.5
0.12	1748.9
0.15	1749.5
0.20	1750.0
0.25	1750.6
0.50	1752.5
1.00	1754.4
2.25	1756.6
4.00	1758.1
9.02	1760.0
16.00	1761.2
25.00	1762.1
36.00	1762.9
49.00	1763.5
64.00	1764.1
81.00	1764.3



Tested By *TM* Date *11/2/04* Checked By *CS* Date *11/12/04*

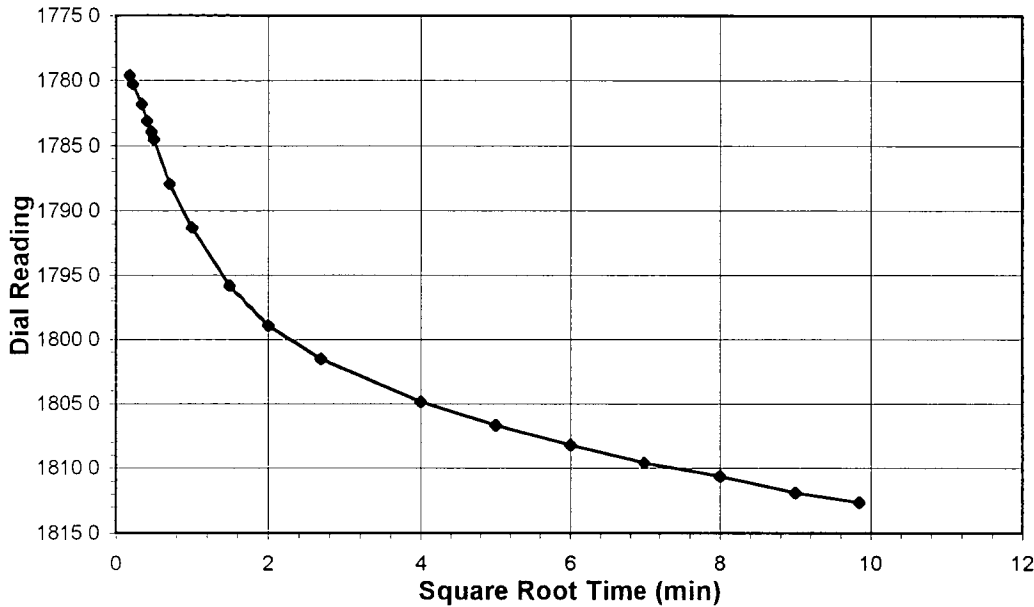


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

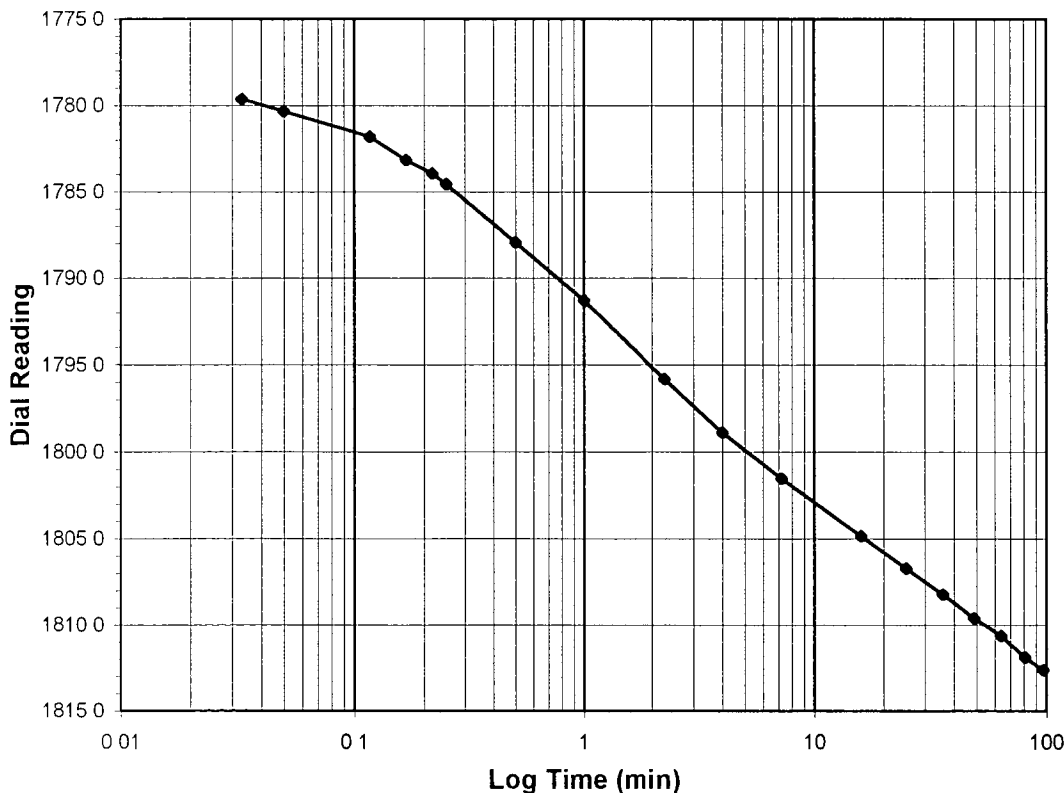
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PFP-47
Lab ID	2004-221-03-05	Visual Description	BROWN STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.5-1.0
Final Reading (div)	1812.7
Consolidometer No.	3
1 Division (in)	0.0001
Start Date	11/2/04
Start Time	13:20:20

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>1764.3</b>
0.03	1779.6
0.05	1780.3
0.12	1781.8
0.17	1783.1
0.22	1783.9
0.25	1784.5
0.50	1787.9
1.00	1791.3
2.25	1795.9
4.00	1798.9
7.22	1801.5
16.00	1804.9
25.00	1806.7
36.00	1808.2
49.00	1809.6
64.00	1810.7
81.00	1811.9
97.00	1812.7



Tested By *TM* Date *11/2/04* Checked By *GU* Date *11/12/04*

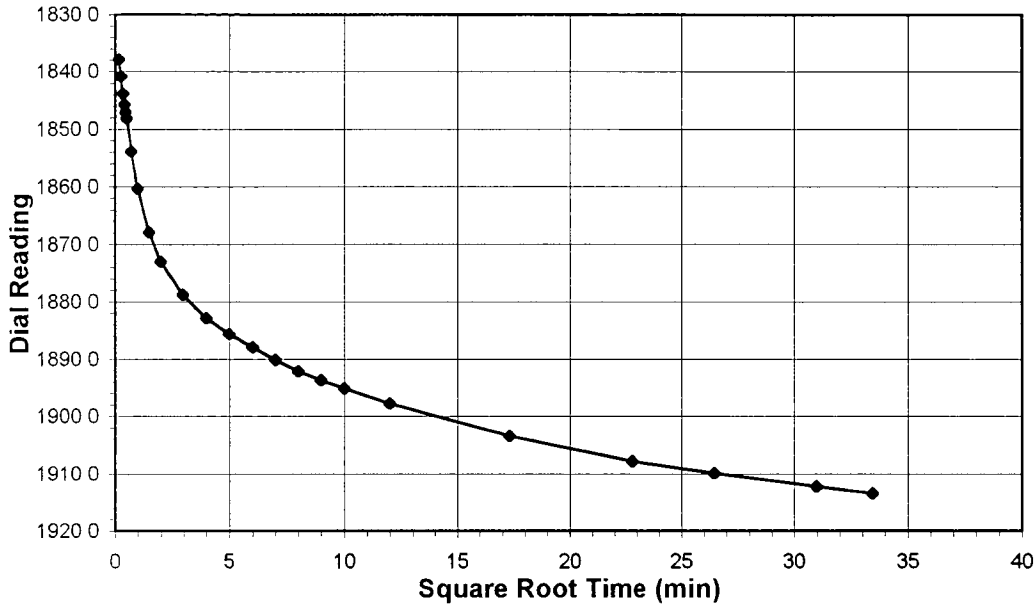


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

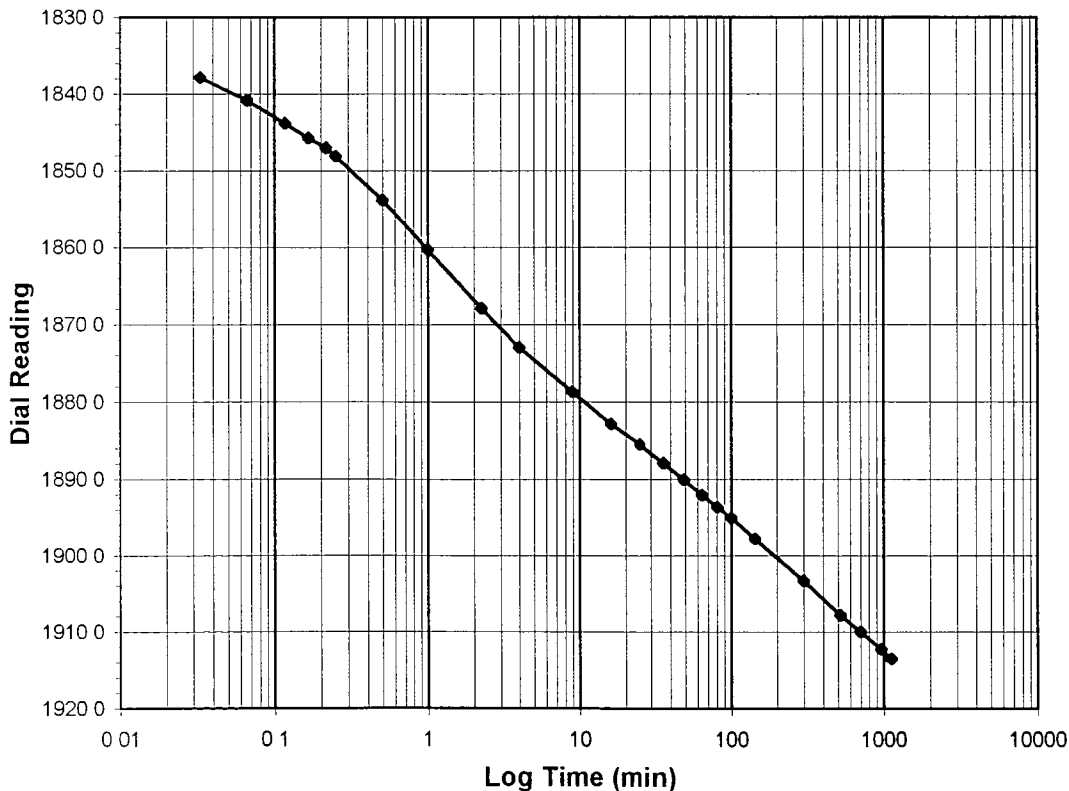
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PFP-47
Lab ID	2004-221-03-05	Visual Description	BROWN STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	1.0-2.0
Final Reading (div)	1913.5
Consolidometer No.	3
1 Division (in)	0.0001
Start Date	11/2/04
Start Time	15:04:57

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>1812.7</b>
0.03	1837.9
0.07	1840.8
0.12	1843.8
0.17	1845.8
0.22	1847.0
0.25	1848.1
0.50	1853.8
1.00	1860.3
2.25	1867.9
4.00	1873.0
8.88	1878.7
16.00	1882.8
25.00	1885.6
36.00	1887.9
49.00	1890.1
64.00	1892.1
81.00	1893.7
100.02	1895.1
144.00	1897.8
300.00	1903.4
520.00	1907.8
700.00	1910.0
960.00	1912.2
1119.38	1913.5



Tested By *TM* Date *11/2/04* Checked By *GO* Date *11/12/04*



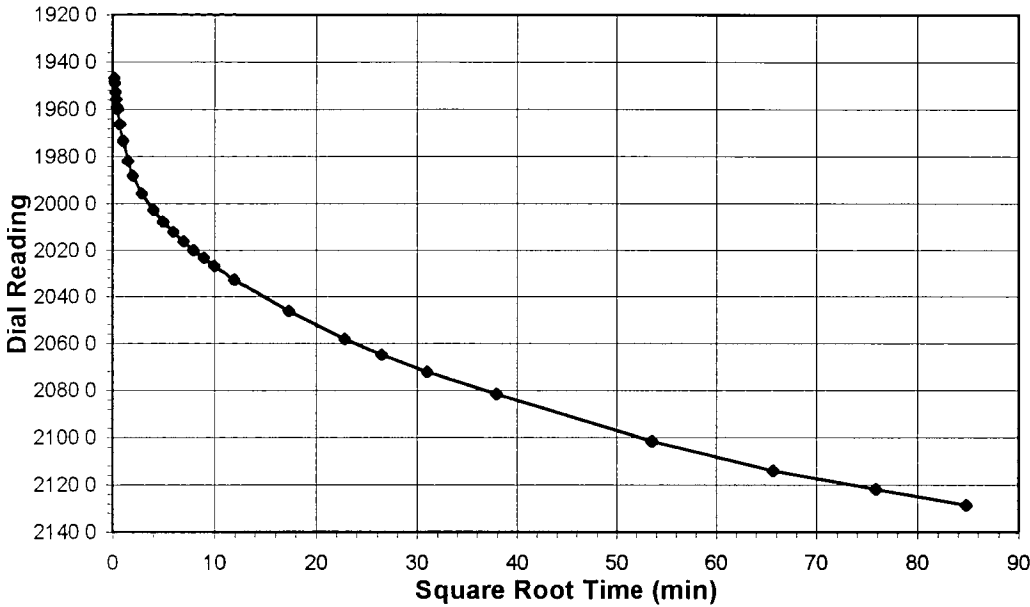


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

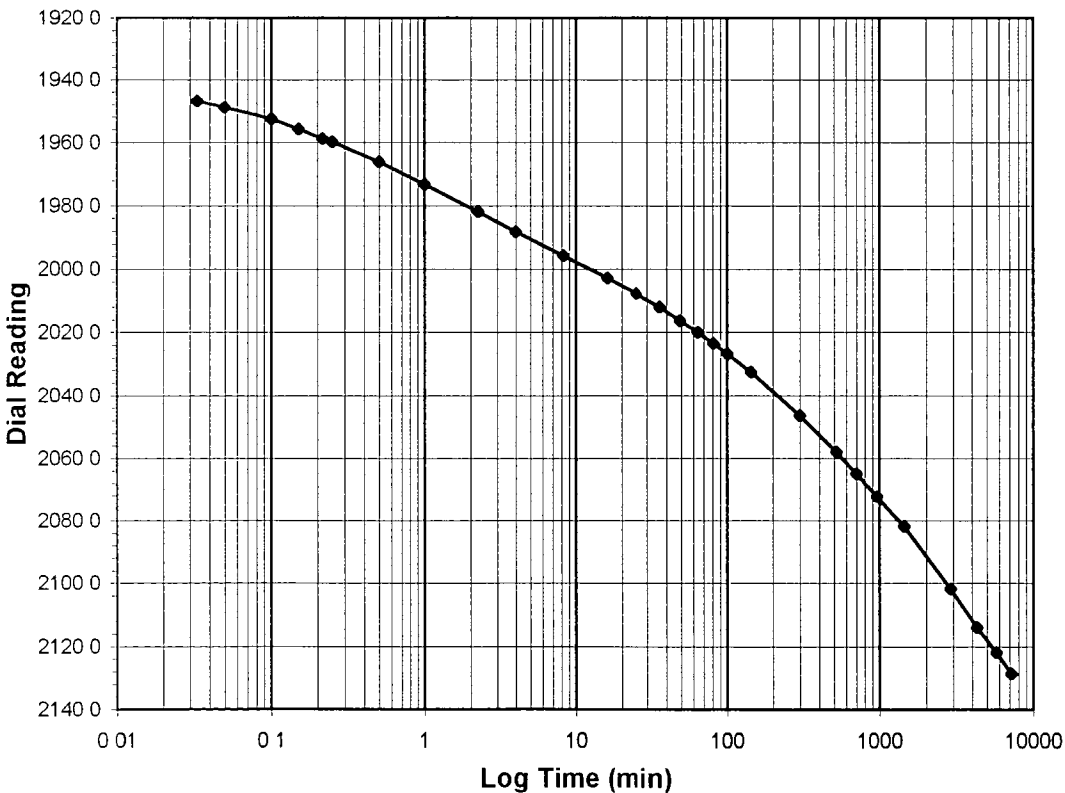
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PFP-47
Lab ID	2004-221-03-05	Visual Description	BROWN STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



<b>Test Load</b>	(tsf)	<b>2.0-4.0</b>
<b>Final Reading</b>	(div)	<b>2128.6</b>
Consolidometer No.		3
1 Division	(in)	0.0001
<b>Start Date</b>		11/3/04
<b>Start Time</b>		10:05:56

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>1913.5</b>
0.03	1946.8
0.05	1948.8
0.10	1952.6
0.15	1955.8
0.22	1958.8
0.25	1959.9
0.50	1966.1
1.00	1973.3
2.25	1981.8
4.00	1988.2
8.20	1995.6
16.00	2002.8
25.00	2007.7
36.00	2012.1
49.02	2016.2
64.00	2020.0
81.00	2023.4
100.00	2026.7
144.00	2032.6
300.00	2046.4
520.00	2058.1
700.00	2064.9
960.00	2072.3
1440.00	2081.7
1440.00	2081.7
2880.00	2101.7
4320.00	2114.0
5760.00	2121.9
7200.00	2128.6



Tested By *TM* Date *11/3/04* Checked By *GO* Date *11/12/04*

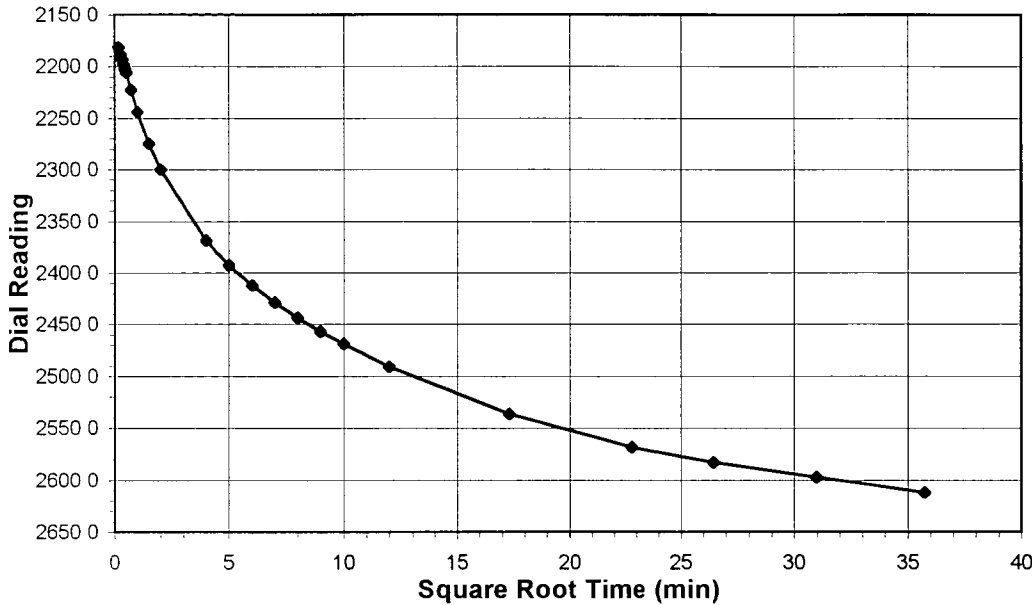


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

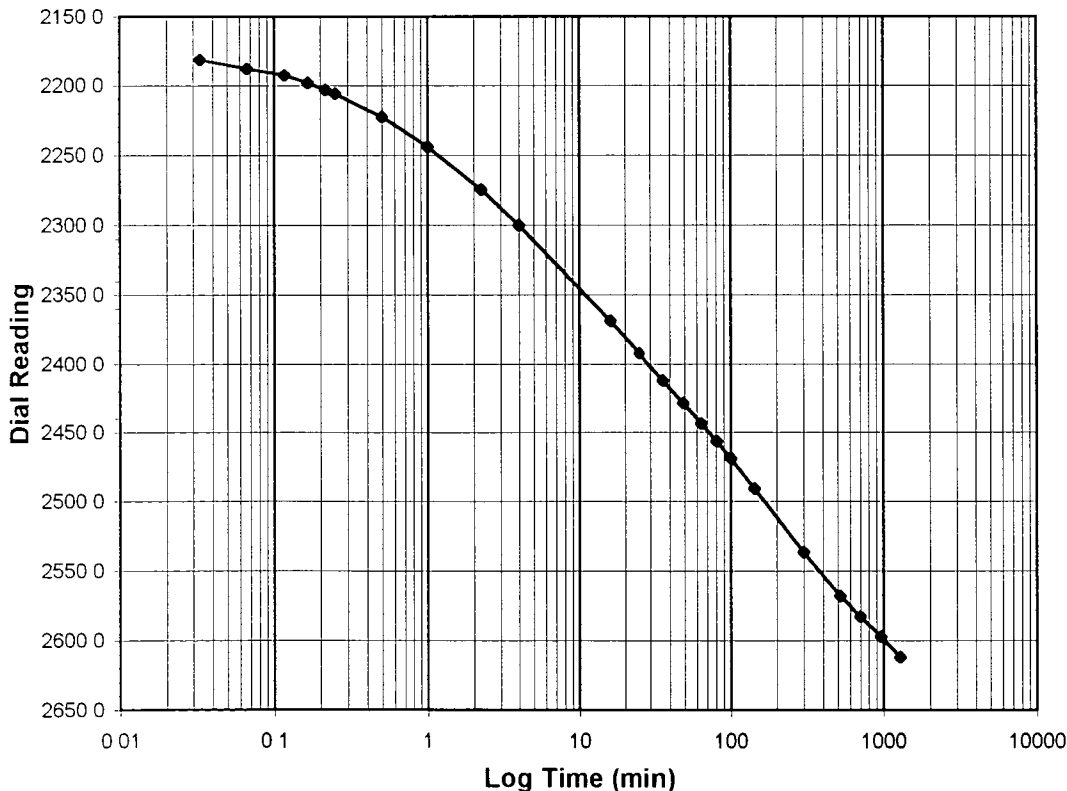
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PFP-47
Lab ID	2004-221-03-05	Visual Description	BROWN STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	4.0-8.0
Final Reading (div)	2612.1
Consolidometer No.	3
1 Division (in)	0.0001
Start Date	11/8/04
Start Time	12:45:04

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>2128.6</b>
0.03	2181.6
0.07	2187.9
0.12	2192.7
0.17	2198.0
0.22	2203.0
0.25	2206.1
0.50	2222.5
1.00	2243.8
2.25	2274.7
4.00	2300.0
16.00	2369.0
25.00	2392.4
36.02	2412.1
49.00	2428.9
64.00	2443.7
81.00	2456.9
100.00	2468.9
144.00	2491.1
300.00	2536.5
520.00	2568.3
700.00	2583.0
960.00	2597.3
1278.37	2612.1



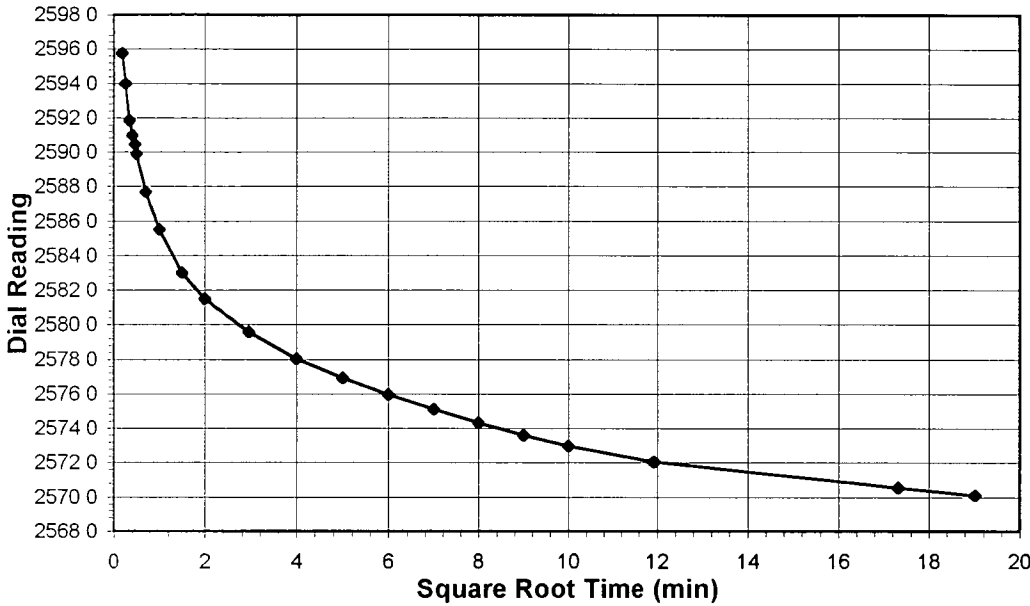
Tested By **TM** Date **11/8/04** Checked By **G.D** Date **11/12/04**

# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PPF-47
Lab ID	2004-221-03-05	Visual Description	BROWN STABILIZED MATERIAL

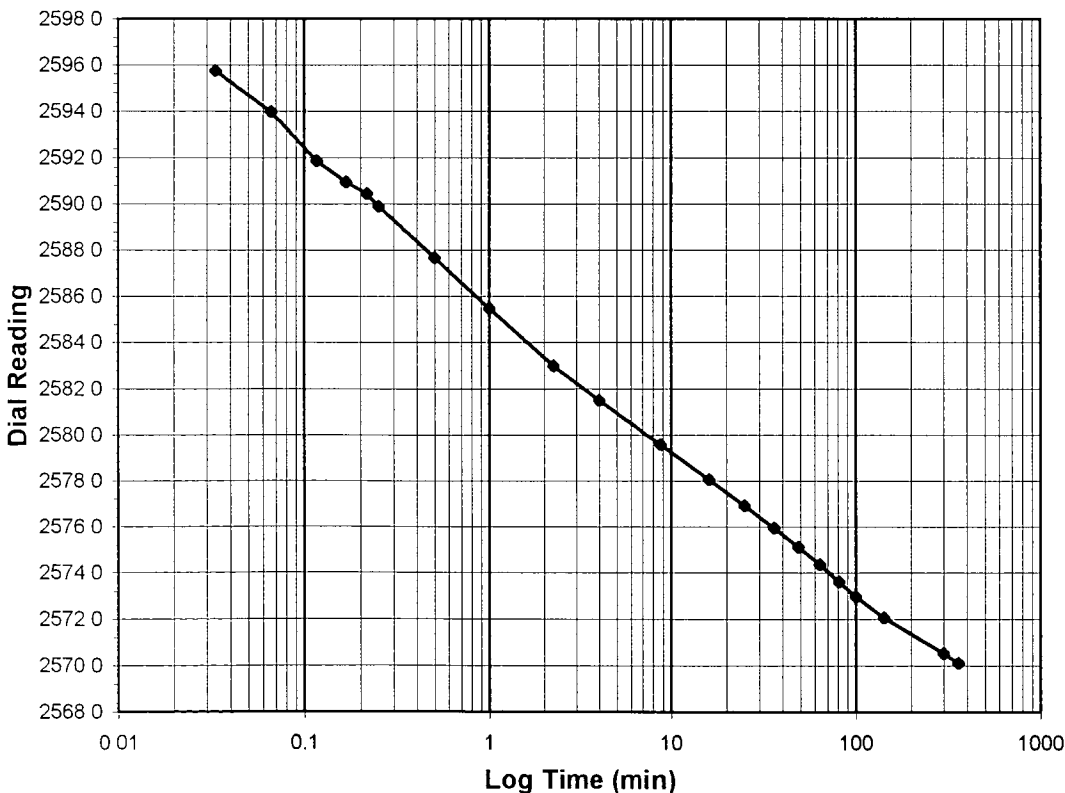
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



<b>Test Load</b>	(tsf)	<b>8.0-4.0</b>
<b>Final Reading</b>	(div)	<b>2570.1</b>
Consolidometer No.		3
1 Division	(in)	0.0001

Start Date	11/9/04
Start Time	10:11:25

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>2612.1</b>
0.03	2595.8
0.07	2594.0
0.12	2591.9
0.17	2591.0
0.22	2590.5
0.25	2589.9
0.50	2587.7
1.00	2585.5
2.25	2583.0
4.00	2581.5
8.78	2579.6
16.00	2578.0
25.00	2576.9
36.00	2576.0
49.00	2575.1
64.00	2574.4
81.00	2573.6
100.00	2573.0
142.43	2572.1
300.00	2570.5
361.77	2570.1



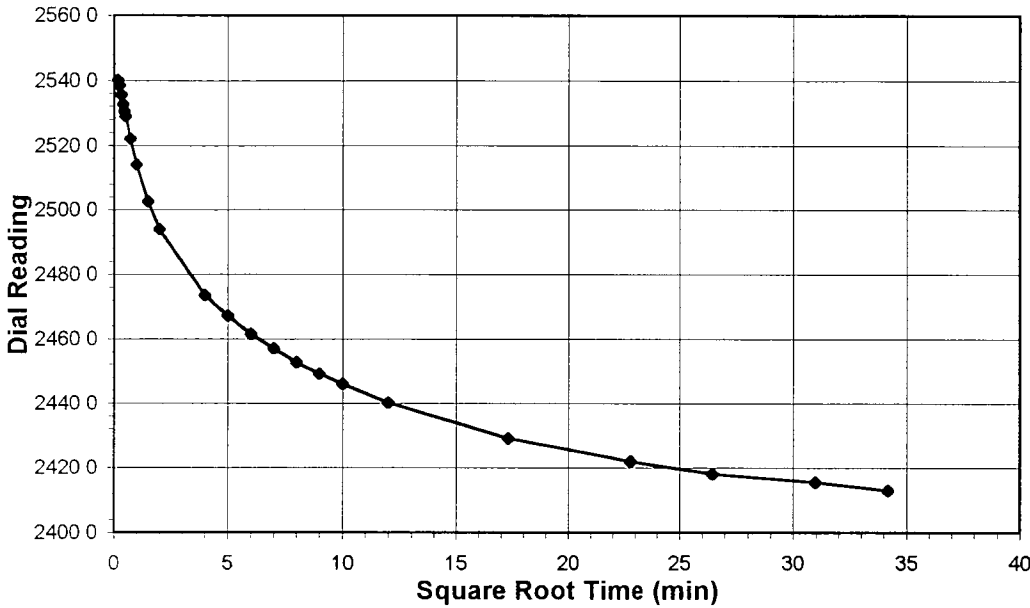
Tested By **TM** Date **11/9/04** Checked By **GO** Date **11/12/04**

# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PFP-47
Lab ID	2004-221-03-05	Visual Description	BROWN STABILIZED MATERIAL

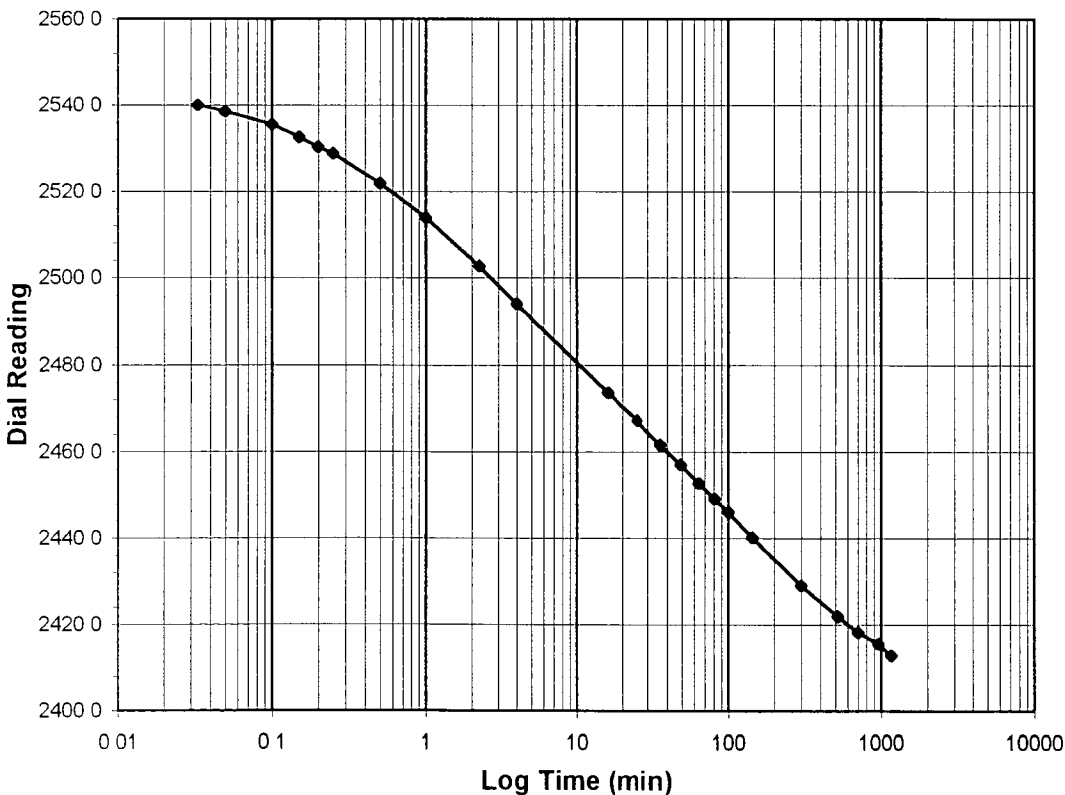
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



<b>Test Load</b>	(tsf)	4.0-1.0
<b>Final Reading</b>	(div)	2412.9
Consolidometer No.		3
1 Division	(in)	0.0001

Start Date	11/9/04
Start Time	16:27:50

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>2570.1</b>
0.03	2540.1
0.05	2538.6
0.10	2535.6
0.15	2532.6
0.20	2530.4
0.25	2528.9
0.50	2522.0
1.00	2514.0
2.25	2502.7
4.00	2494.0
16.00	2473.6
25.00	2467.1
36.00	2461.6
49.02	2457.0
64.00	2452.7
81.00	2449.2
100.00	2446.0
144.00	2440.1
300.00	2429.0
520.00	2422.0
700.00	2418.1
960.00	2415.5
1169.53	2412.9



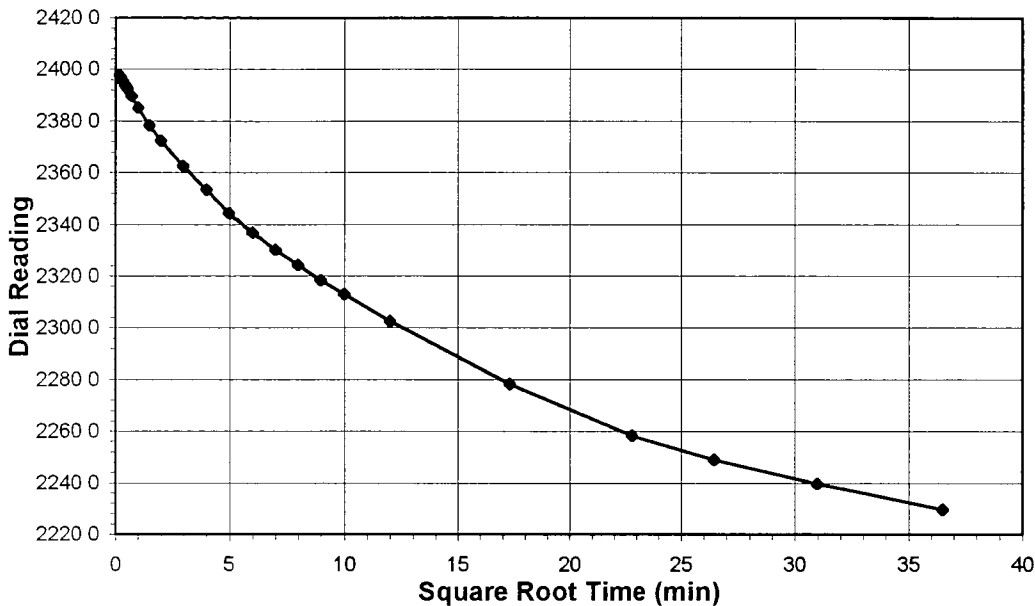
Tested By *TM* Date *11/9/04* Checked By *CL* Date *11/12/04*



**ONE DIMENSIONAL CONSOLIDATION**  
ASTM D 2435-96 (SOP-S24A)

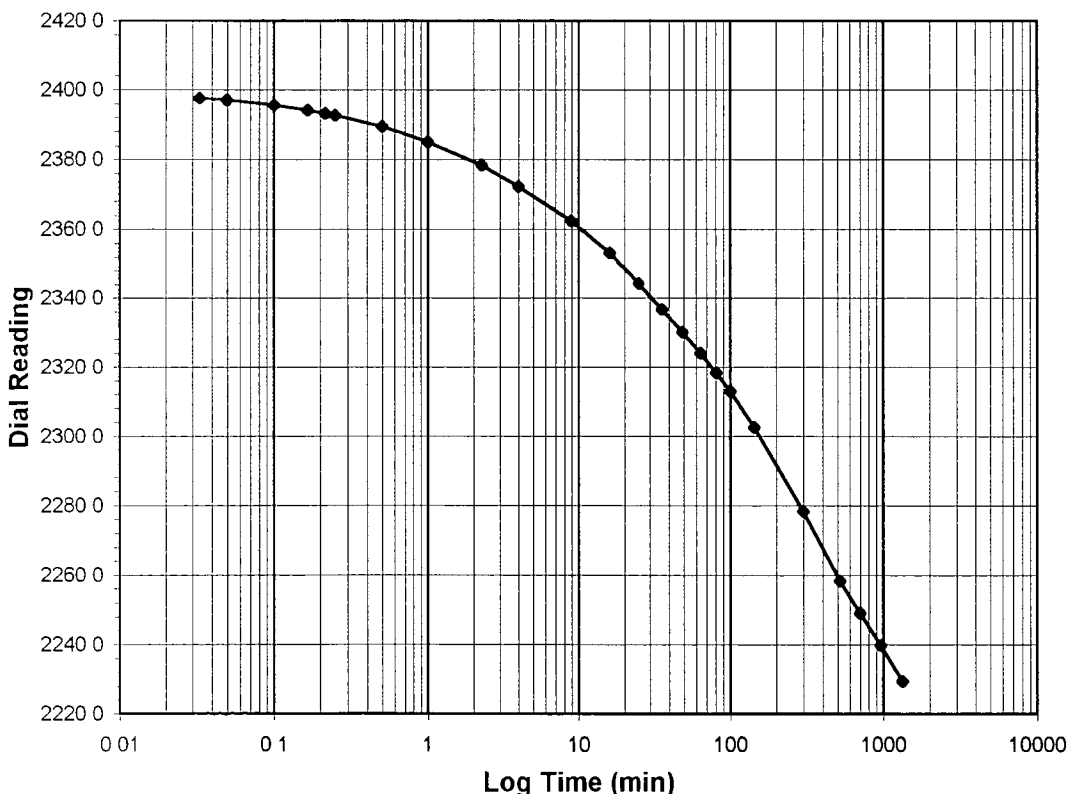
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-03	Sample No.	PFP-47
Lab ID	2004-221-03-05	Visual Description	BROWN STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



<b>Test Load (tsf)</b>	<b>1.0-0.25</b>
<b>Final Reading (div)</b>	<b>2229.5</b>
Consolidometer No.	3
1 Division (in)	0.0001
<b>Start Date</b>	<b>11/10/04</b>
<b>Start Time</b>	<b>12:09:55</b>

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>2412.9</b>
0.03	2397.7
0.05	2397.0
0.10	2395.6
0.17	2394.1
0.22	2393.2
0.25	2392.5
0.50	2389.5
1.00	2385.1
2.27	2378.3
4.00	2372.4
8.87	2362.4
16.00	2353.3
25.00	2344.3
36.00	2336.7
49.00	2330.1
64.00	2324.1
81.00	2318.3
100.00	2312.8
144.00	2302.5
300.02	2278.3
520.00	2258.3
700.00	2249.0
960.00	2239.8
1334.23	2229.5



Tested By *TM* Date *11/10/04* Checked By *CU* Date *11/12/04*



# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 / AASHTO T216-03 (SOP-S24)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Reference	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PPF-17 POST S/T
Lab ID	2004-221-03-06	Visual Description	BROWN STABILIZED MATERIAL (RECEIVED LOOSE IN TUBE)

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED

**Consolidometer No.** 4

**1 Division** = 0.0001 (in)

## Sample Properties

<i>Water Content</i>		<b>Initial</b>	<b>Final</b>
Tare Number	284	1399	
Wt. Tare & WS (gm)	104.27	126.63	
Wt. Tare & DS (gm)	76.82	102.23	
Wt. Water (gm)	27.45	24.40	
Wt. Tare (gm)	8.15	38.18	
Wt. DS (gm)	68.67	64.05	
Water Content (%)	39.97	38.10	

## Sample Parameters

Sample Diameter (in)	2.5	2.5
Sample Height (in)	0.75	0.610
Sample Volume (cc)	60.33	49.07
Wt. Wet Sample + Ring (gm)	171.18	169.93
Wt. of Ring (gm)	77.72	77.72
Wt. of Wet Sample (gm)	93.46	92.21
Wet Density (pcf)	96.67	117.26
Wet Density (g/cc)	1.55	1.88
Water Content (%)	39.97	38.10
Wt. of Dry Sample (gm)	66.77	66.77
Dry Density (pcf)	69.06	84.91
Dry Density (g/cc)	1.11	1.36
Void Ratio	1.4396	0.9842
Saturation (%)	74.97	104.51
Specific Gravity	2.70	Assumed

## Test Data Summary

Applied Pressure (tsf)	Final Dial Reading (div)	Machine Deflection (div)	Corrected Reading (div)	Height of Sample (mm)	Volume (cc)	Dry Density (g/cc)	Void Ratio
Seating	0	0	0	19.050	60.330	1.10674	1.43959
0.25	145.7	6.6	139.1	18.697	59.211	1.12766	1.39434
0.5	260.6	11.7	248.9	18.418	58.328	1.14473	1.35863
1	514.0	18.5	495.5	17.791	56.344	1.18503	1.27842
2	800.1	28.5	771.6	17.090	54.123	1.23366	1.18861
4	1162.3	41.2	1121.1	16.202	51.312	1.30125	1.07492
1	1090.9	30.8	1060.1	16.357	51.802	1.28893	1.09476
0.25	951.1	14.6	936.5	16.671	52.797	1.26466	1.13497
0.5	968.7	14.5	954.2	16.626	52.654	1.26808	1.12921
1	1012.4	21.6	990.8	16.533	52.360	1.27521	1.11730
2	1105.4	29.4	1076.0	16.317	51.675	1.29212	1.08959
4	1256.0	41.6	1214.4	15.965	50.561	1.32057	1.04457
8	1604.7	53.3	1551.4	15.109	47.850	1.39538	0.93495
4	1579.5	51.3	1528.2	15.168	48.037	1.38996	0.94250
1	1479.5	36.7	1442.8	15.385	48.724	1.37036	0.97028
0.25	1419.8	19.7	1400.1	15.494	49.067	1.36077	0.98417

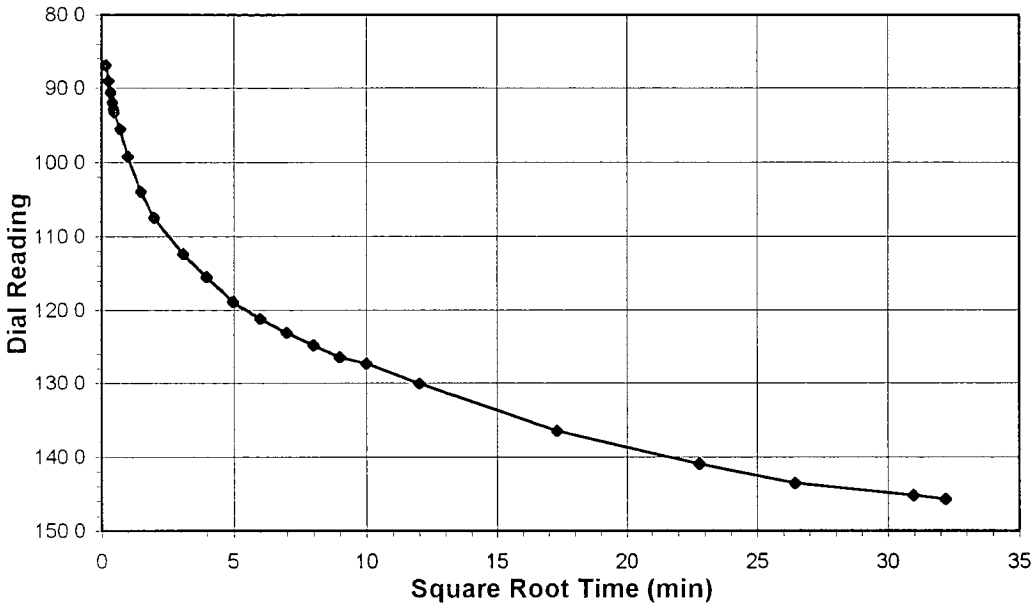
Tested By TM Date 9/22/04 Input Checked By CSJ Date 10/18/04



**ONE DIMENSIONAL CONSOLIDATION**  
ASTM D 2435-96 (SOP-S24A)

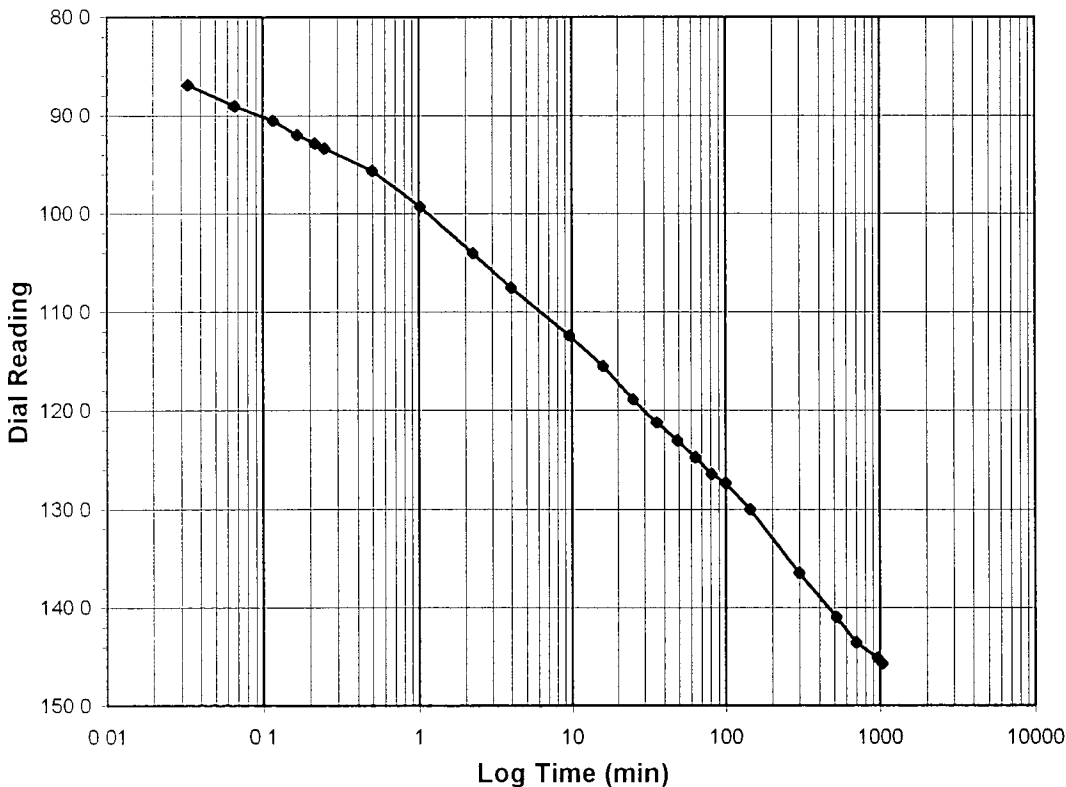
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PF-17 POST S/T
Lab ID	2004-221-03-06	Visual Description	BROWN STABILIZED MATERIAL (RECEIVED LOOSE IN TUBE)

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0-0.25
Final Reading (div)	145.7
Consolidometer No.	4
1 Division (in)	0.0001
Start Date	9/22/04
Start Time	15.55:52

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>0.0</b>
0.03	86.9
0.07	89.0
0.12	90.6
0.17	91.9
0.22	92.8
0.25	93.3
0.50	95.6
1.02	99.3
2.25	104.0
4.00	107.6
9.65	112.4
16.00	115.5
25.00	118.9
36.00	121.2
49.00	123.1
64.00	124.8
81.02	126.4
100.02	127.3
144.02	130.0
300.00	136.5
520.00	141.0
700.00	143.6
960.00	145.2
1037.32	145.7



Tested By *TM* Date *9/22/04* Checked By *GU* Date *10/8/04*

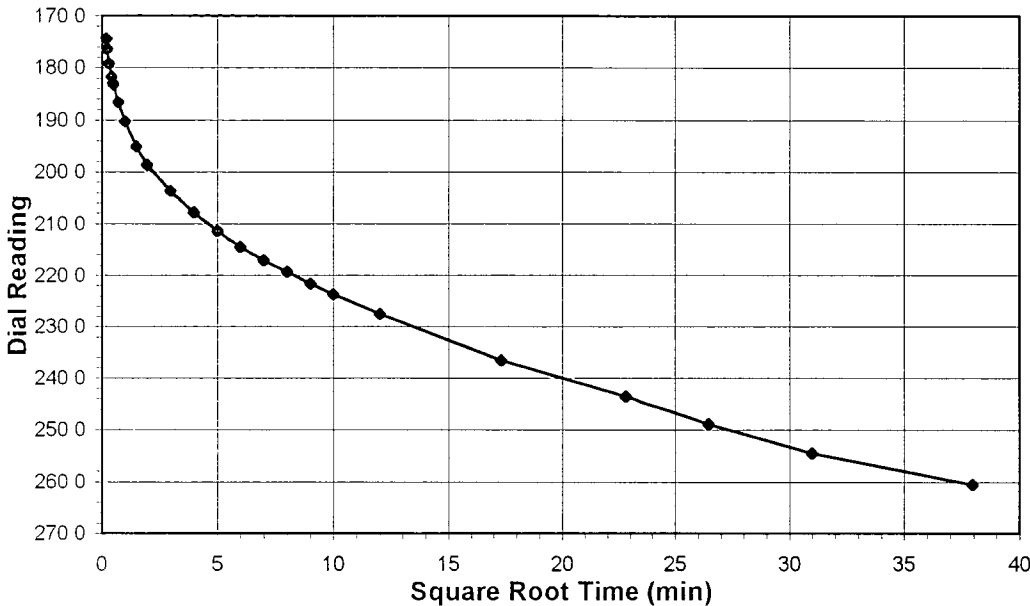


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PPF-17 POST S/T
Lab ID	2004-221-03-06	Visual Description	BROWN STABILIZED MATERIAL (RECEIVED LOOSE IN TUBE)

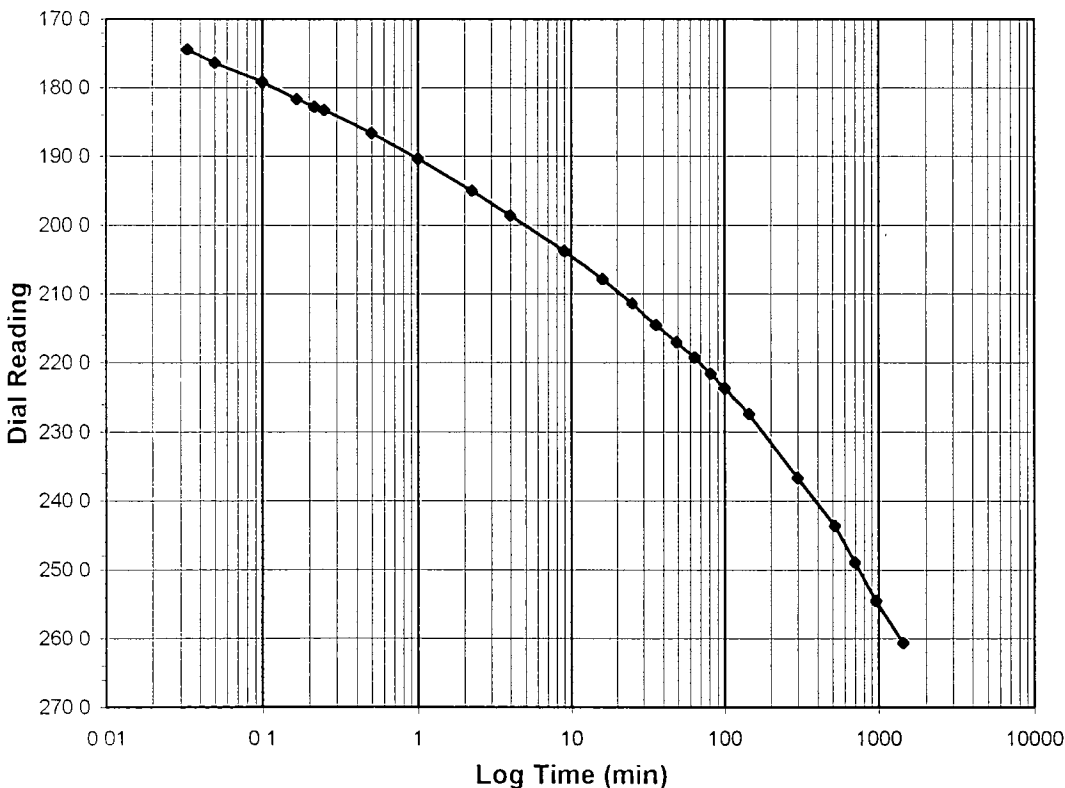
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.25-0.5
Final Reading (div)	260.6
Consolidometer No.	4
1 Division (in)	0.0001

Start Date	9/23/04
Start Time	9:28:31

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>145.7</b>
0.03	174.5
0.05	176.4
0.10	179.2
0.17	181.7
0.22	182.9
0.25	183.3
0.50	186.6
1.00	190.3
2.25	195.0
4.00	198.6
9.02	203.7
16.00	207.9
25.00	211.3
36.00	214.5
49.00	217.0
64.00	219.3
81.00	221.6
100.00	223.7
144.00	227.4
300.00	236.6
520.00	243.6
700.00	248.9
960.00	254.5
1440.00	260.6



Tested By TM Date 9/23/04 Checked By GU Date 10/8/09



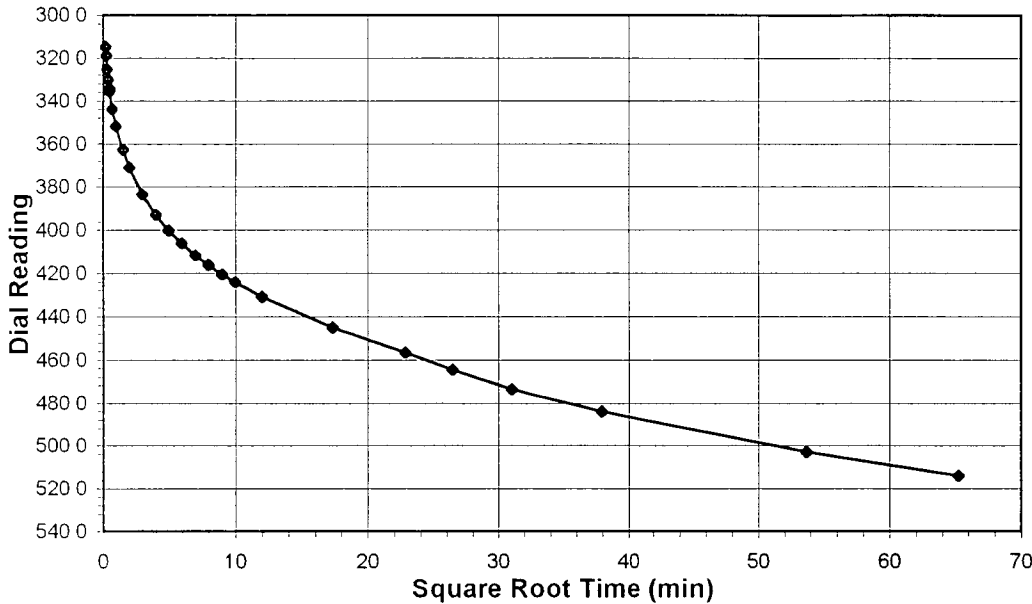


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PPF-17 POST S/T
Lab ID	2004-221-03-06	Visual Description	BROWN STABILIZED MATERIAL (RECEIVED LOOSE IN TUBE)

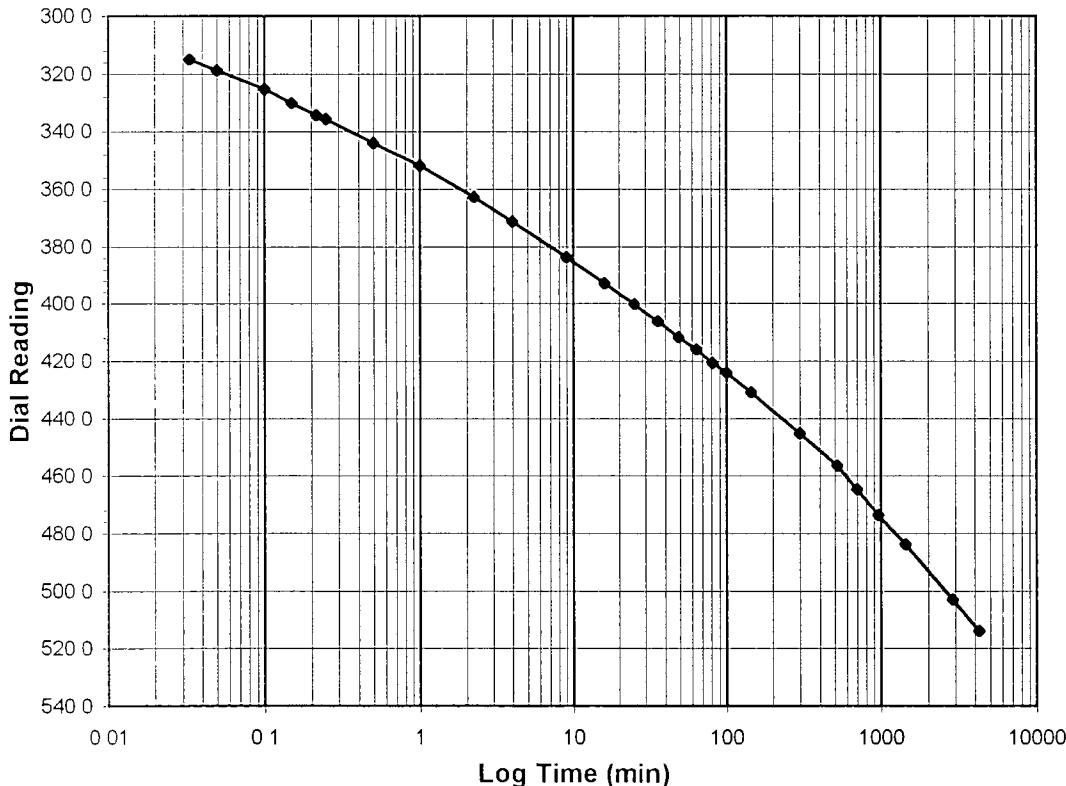
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.5-1.0
Final Reading (div)	514.0
Consolidometer No.	4
1 Division (in)	0.0001

Start Date	9/24/04
Start Time	10:20:14

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>260.6</b>
0.03	314.9
0.05	318.8
0.10	325.3
0.15	330.1
0.22	334.3
0.25	335.7
0.50	343.9
1.00	351.9
2.25	362.8
4.00	371.1
9.03	383.5
16.00	392.8
25.02	400.2
36.00	406.1
49.00	411.7
64.00	416.1
81.00	420.6
100.00	424.1
144.00	431.0
300.00	445.2
520.02	456.5
700.00	464.5
960.00	473.6
1440.00	483.8
2880.00	503.0
4254.63	514.0



Tested By TM Date 9/24/04 Checked By GU Date 10/8/04

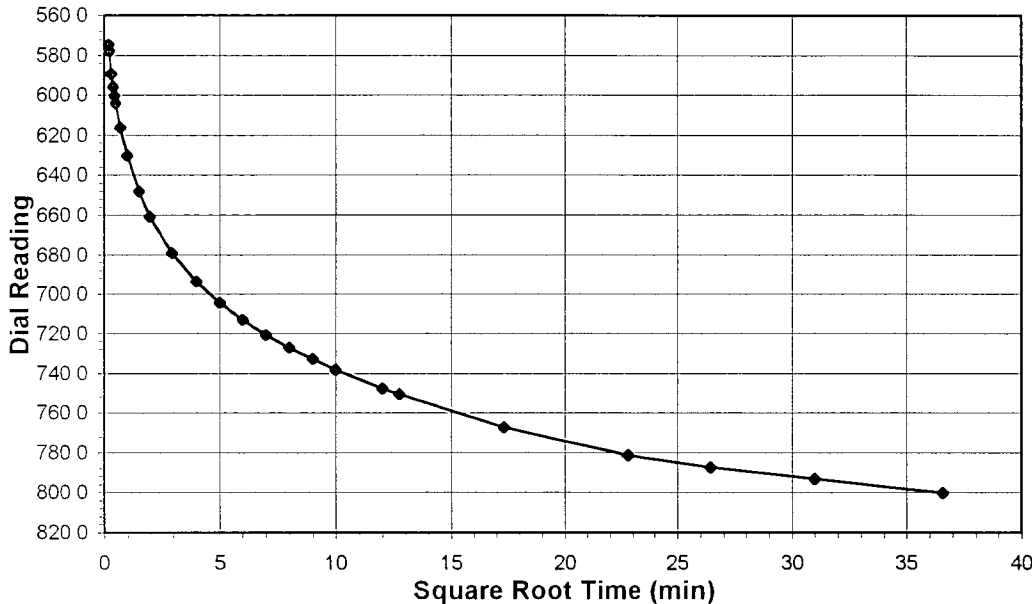


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

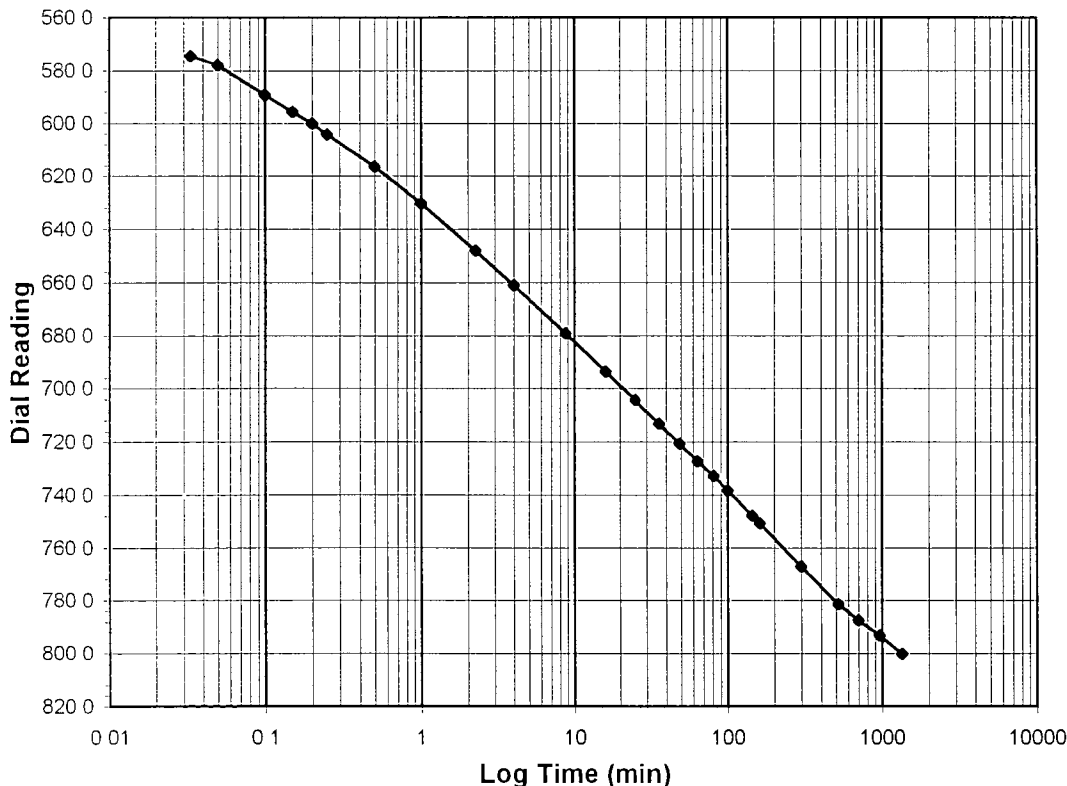
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PPF-17 POST S/T
Lab ID	2004-221-03-06	Visual Description	BROWN STABILIZED MATERIAL (RECEIVED LOOSE IN TUBE)

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



<b>Test Load</b>	(tsf)	<b>1.0-2.0</b>
<b>Final Reading</b>	(div)	<b>800.1</b>
Consolidometer No.		4
1 Division	(in)	0.0001
Start Date		9/27/04
Start Time		9:17:18

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>514.0</b>
0.03	574.6
0.05	577.8
0.10	589.3
0.15	595.8
0.20	600.2
0.25	604.2
0.50	616.2
1.00	630.3
2.25	648.1
4.00	661.1
8.72	679.2
16.00	693.5
25.00	704.2
36.00	713.1
49.00	720.7
64.00	727.2
81.00	732.9
100.00	738.4
144.00	747.8
162.48	750.7
300.00	767.2
520.00	781.3
700.00	787.3
960.00	793.2
1339.47	800.1



Tested By TM Date 9/27/04 Checked By GU Date 10/8/04

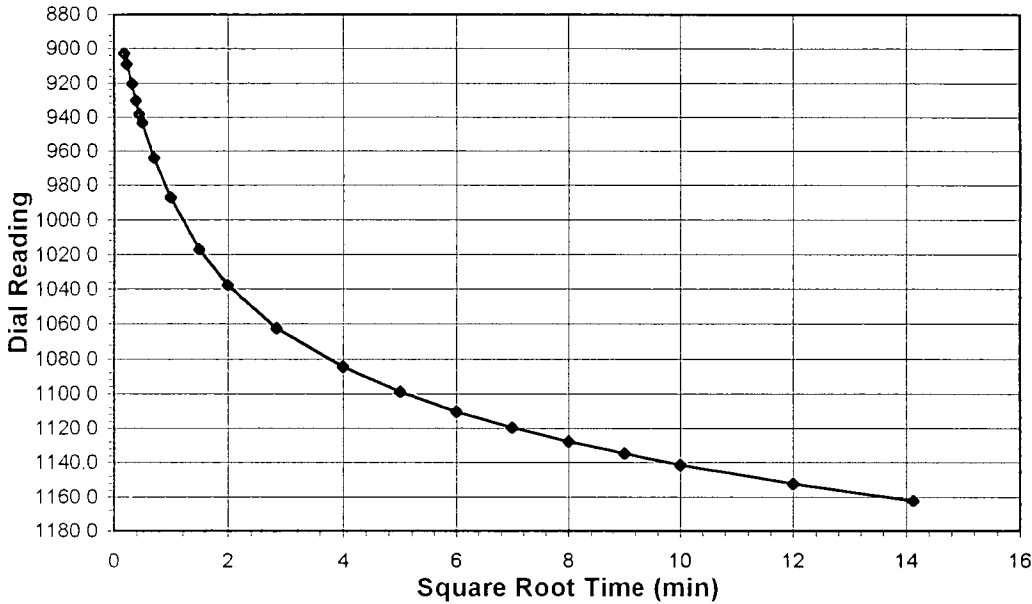


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

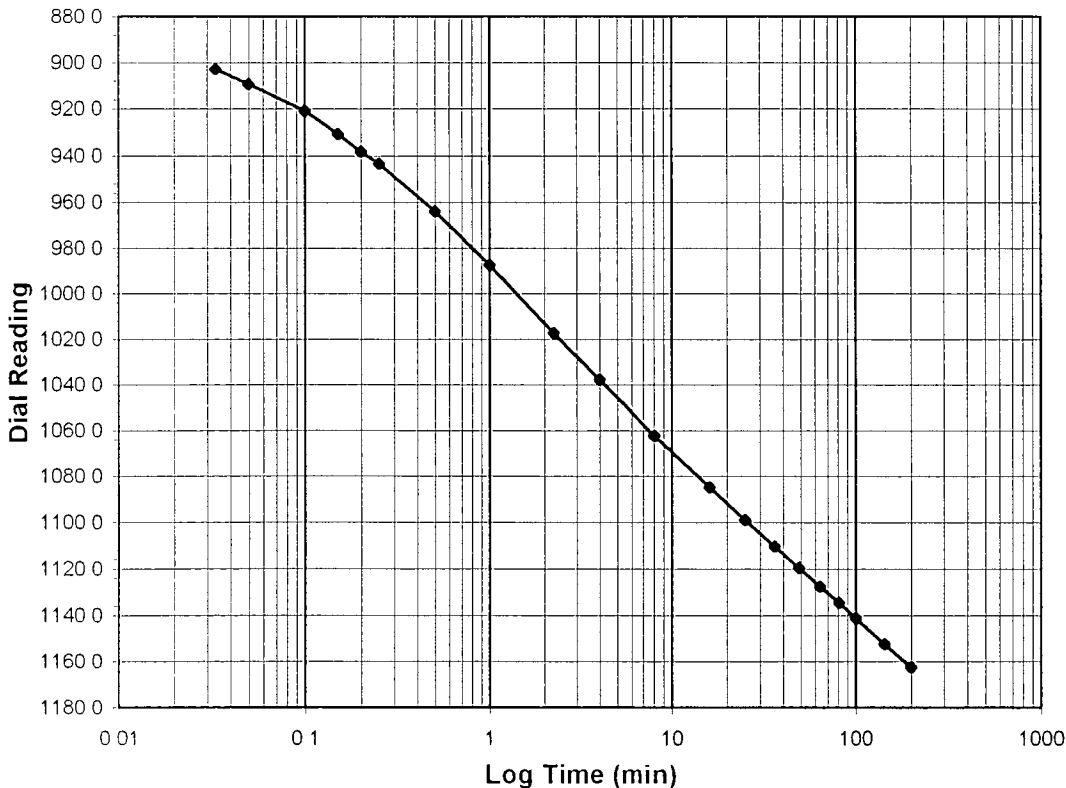
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PPF-17 POST S/T
Lab ID	2004-221-03-06	Visual Description	BROWN STABILIZED MATERIAL (RECEIVED LOOSE IN TUBE)

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	2.0-4.0
Final Reading (div)	1162.3
Consolidometer No.	4
1 Division (in)	0.0001
Start Date	9/28/04
Start Time	8:07:55

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>800.1</b>
0.03	902.9
0.05	909.2
0.10	920.6
0.15	930.6
0.20	938.1
0.25	943.4
0.50	964.0
1.00	987.3
2.25	1017.2
4.00	1037.9
8.08	1062.3
16.00	1084.7
25.00	1098.9
36.00	1110.3
49.00	1119.6
64.00	1127.5
81.00	1134.6
100.00	1141.4
144.02	1152.4
199.50	1162.3



Tested By *TM* Date *9/28/04* Checked By *GU* Date *10/8/04*

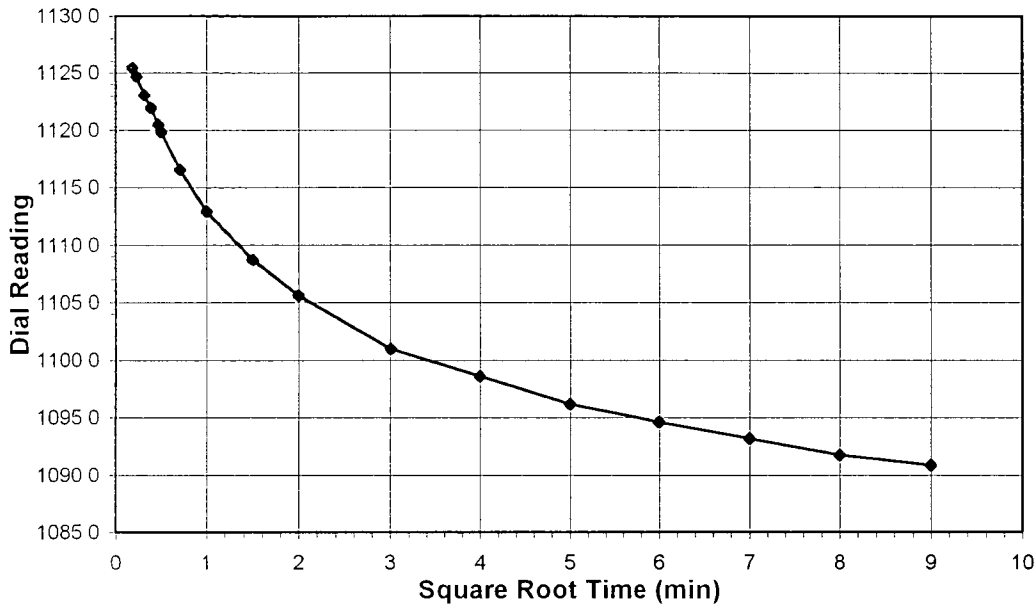


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PPF-17 POST S/T
Lab ID	2004-221-03-06	Visual Description	BROWN STABILIZED MATERIAL (RECEIVED LOOSE IN TUBE)

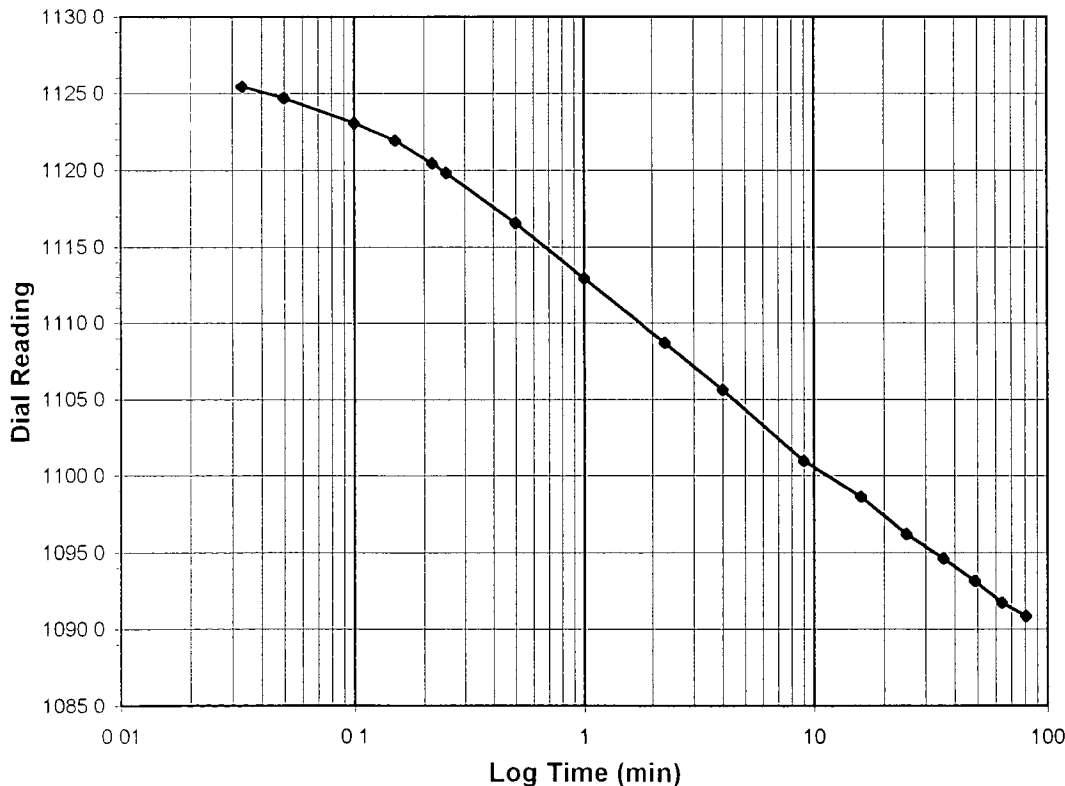
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	4.0-1.0
Final Reading (div)	1090.9
Consolidometer No.	4
1 Division (in)	0.0001

Start Date	9/28/04
Start Time	11:37:06

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>1162.3</b>
0.03	1125.5
0.05	1124.7
0.10	1123.0
0.15	1121.9
0.22	1120.5
0.25	1119.8
0.50	1116.6
1.00	1112.9
2.25	1108.7
4.00	1105.6
9.02	1101.0
16.00	1098.6
25.00	1096.2
36.00	1094.6
49.00	1093.2
64.00	1091.7
81.00	1090.9



Tested By TM Date 9/28/04 Checked By GU Date 10/8/04

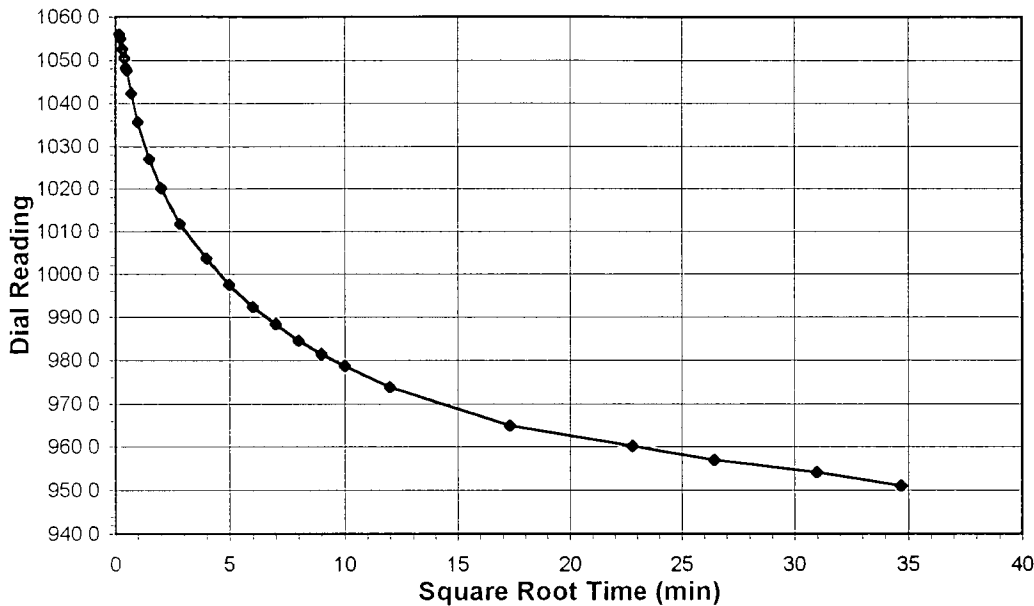


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PPF-17 POST S/T
Lab ID	2004-221-03-06	Visual Description	BROWN STABILIZED MATERIAL (RECEIVED LOOSE IN TUBE)

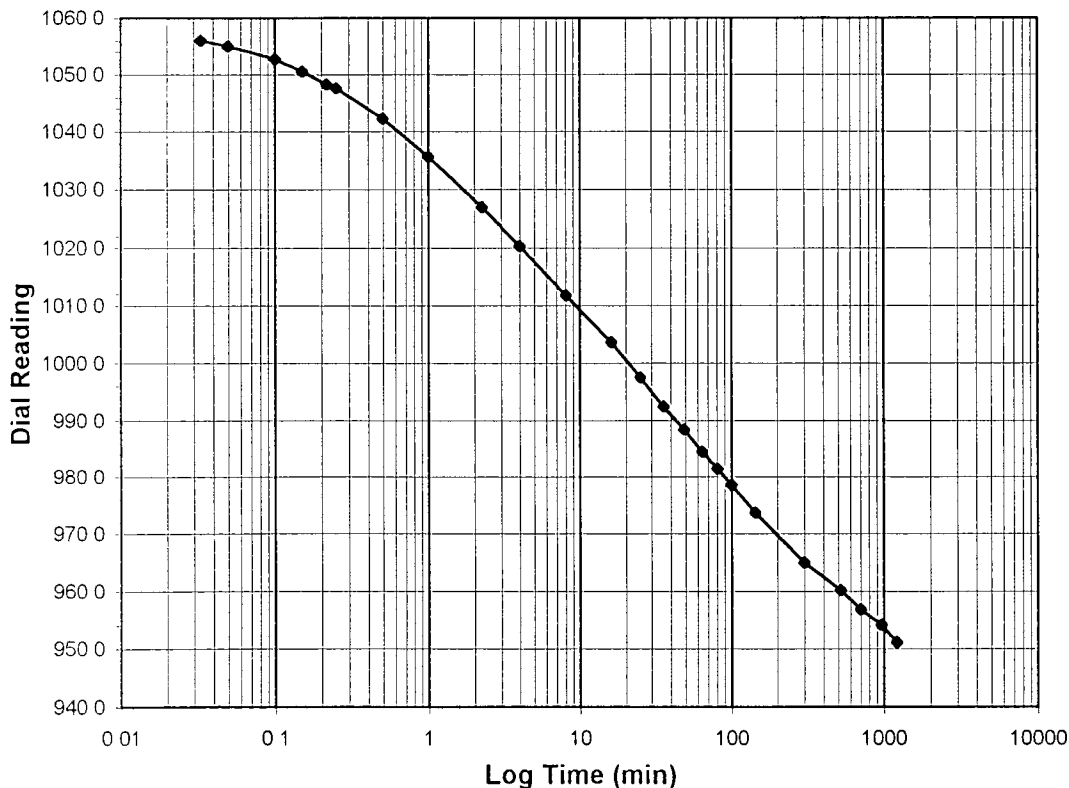
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	1.0-0.25
Final Reading (div)	951.1
Consolidometer No.	4
1 Division (in)	0.0001

Start Date	9/28/04
Start Time	13:18:29

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>1090.9</b>
0.03	1056.0
0.05	1055.0
0.10	1052.7
0.15	1050.6
0.22	1048.3
0.25	1047.6
0.50	1042.3
1.00	1035.7
2.25	1026.9
4.00	1020.3
8.12	1011.8
16.00	1003.6
25.00	997.5
36.00	992.4
49.02	988.4
64.00	984.5
81.00	981.5
100.00	978.6
144.00	973.7
300.00	964.9
520.00	960.1
700.00	956.9
960.00	954.2
1204.52	951.1



Tested By *TM* Date *9/28/04* Checked By *GU* Date *10/8/04*

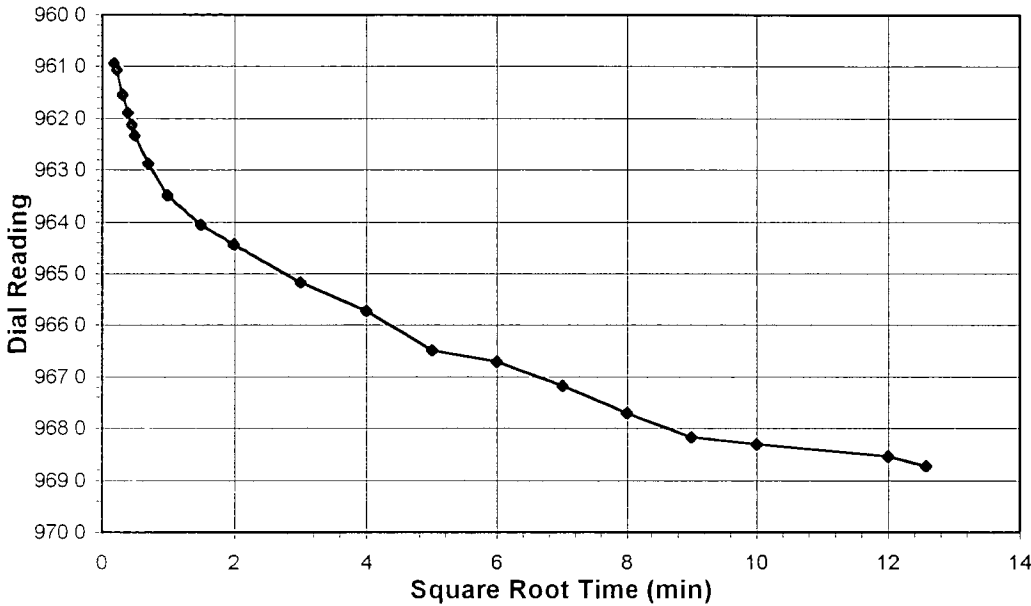


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

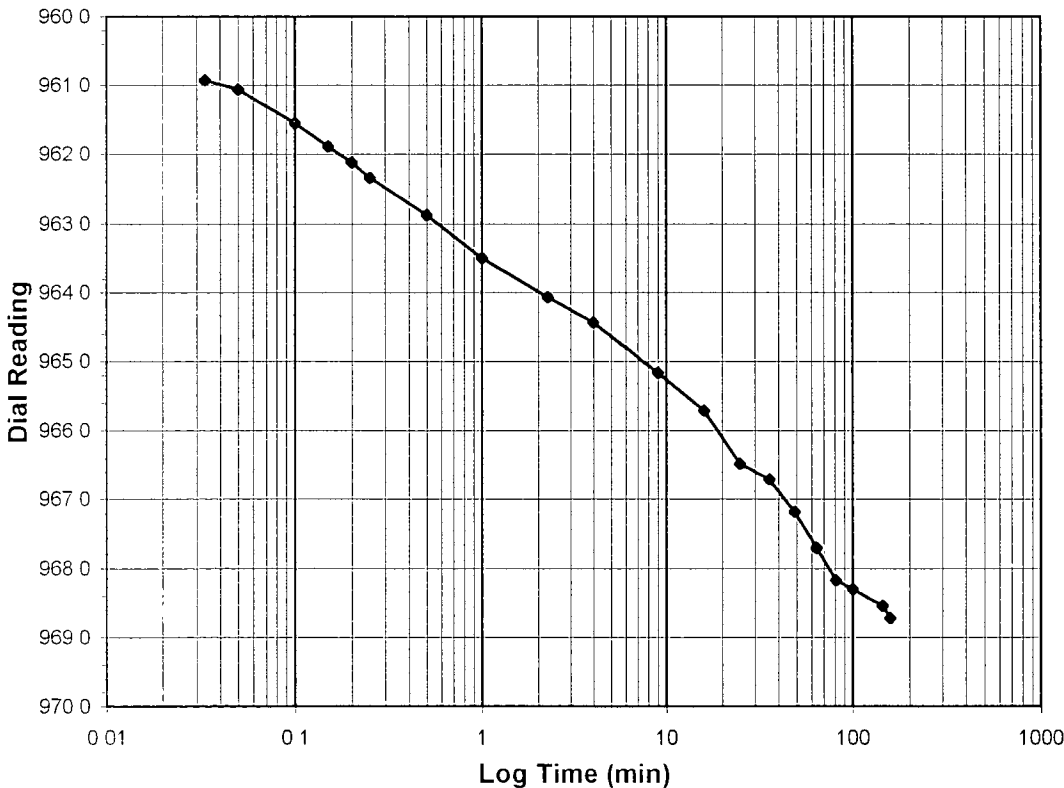
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PFP-17 POST S/T
Lab ID	2004-221-03-06	Visual Description	BROWN STABILIZED MATERIAL (RECEIVED LOOSE IN TUBE)

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.25-0.5
Final Reading (div)	968.7
Consolidometer No.	4
1 Division (in)	0.0001
Start Date	9/29/04
Start Time	9:36:39

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>951.1</b>
0.03	960.9
0.05	961.1
0.10	961.6
0.15	961.9
0.20	962.1
0.25	962.3
0.50	962.9
1.00	963.5
2.25	964.1
4.00	964.4
9.03	965.2
16.00	965.7
25.00	966.5
36.00	966.7
49.00	967.2
64.00	967.7
81.00	968.2
100.00	968.3
144.00	968.5
158.17	968.7



Tested By *TM* Date *9/29/04* Checked By *GU* Date *10/8/04*

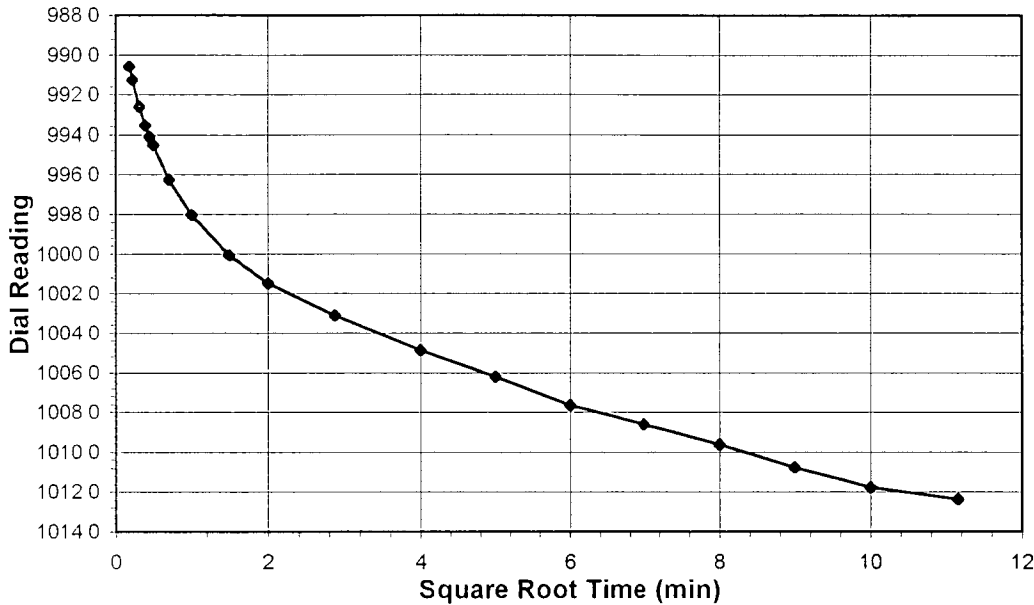


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PF17-17 POST S/T
Lab ID	2004-221-03-06	Visual Description	BROWN STABILIZED MATERIAL (RECEIVED LOOSE IN TUBE)

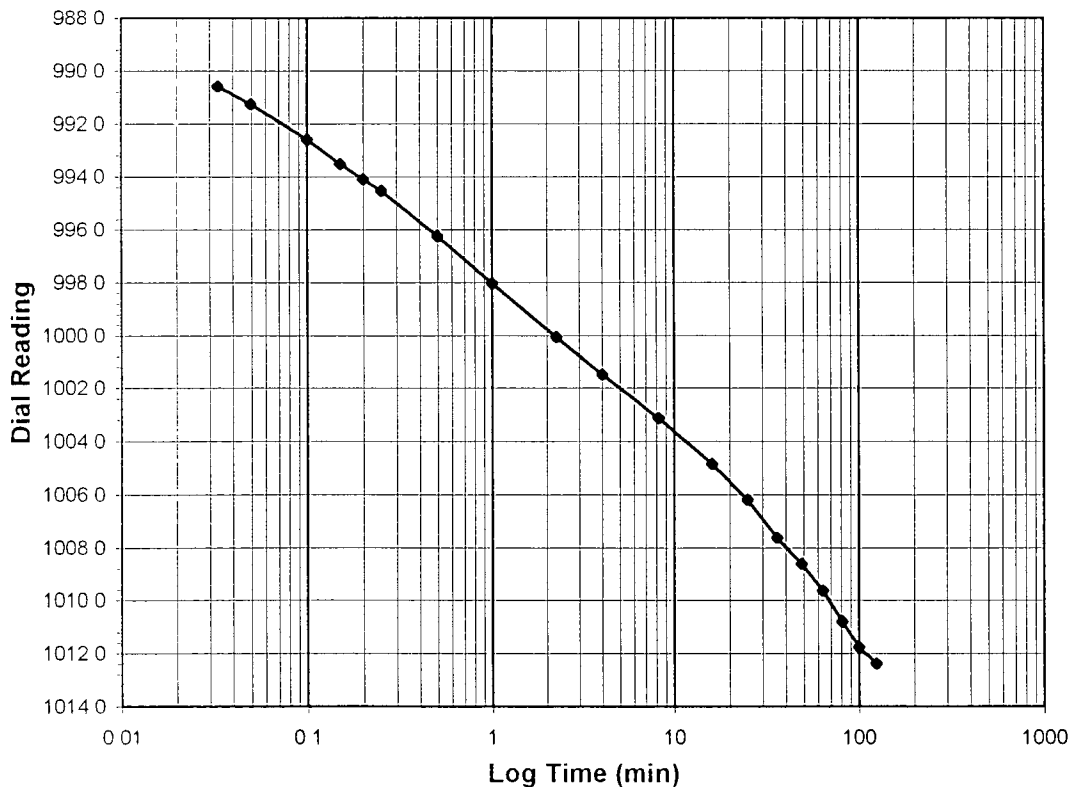
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.5-1.0
Final Reading (div)	1012.4
Consolidometer No.	4
1 Division (in)	0.0001

Start Date	9/29/04
Start Time	12:19:42

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>968.7</b>
0.03	990.6
0.05	991.3
0.10	992.6
0.15	993.5
0.20	994.1
0.25	994.5
0.50	996.3
1.00	998.0
2.25	1000.1
4.00	1001.5
8.27	1003.1
16.00	1004.9
25.00	1006.2
36.00	1007.6
49.00	1008.6
64.00	1009.6
81.00	1010.8
100.00	1011.8
124.50	1012.4



Tested By TM Date 9/29/04 Checked By GU Date 10/8/04

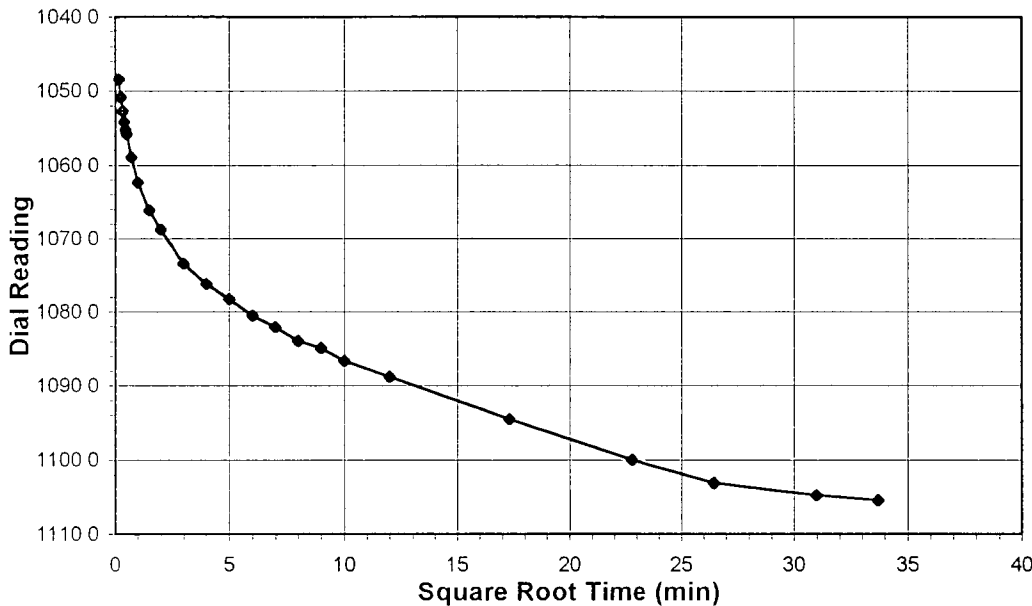


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PPF-17 POST S/T
Lab ID	2004-221-03-06	Visual Description	BROWN STABILIZED MATERIAL (RECEIVED LOOSE IN TUBE)

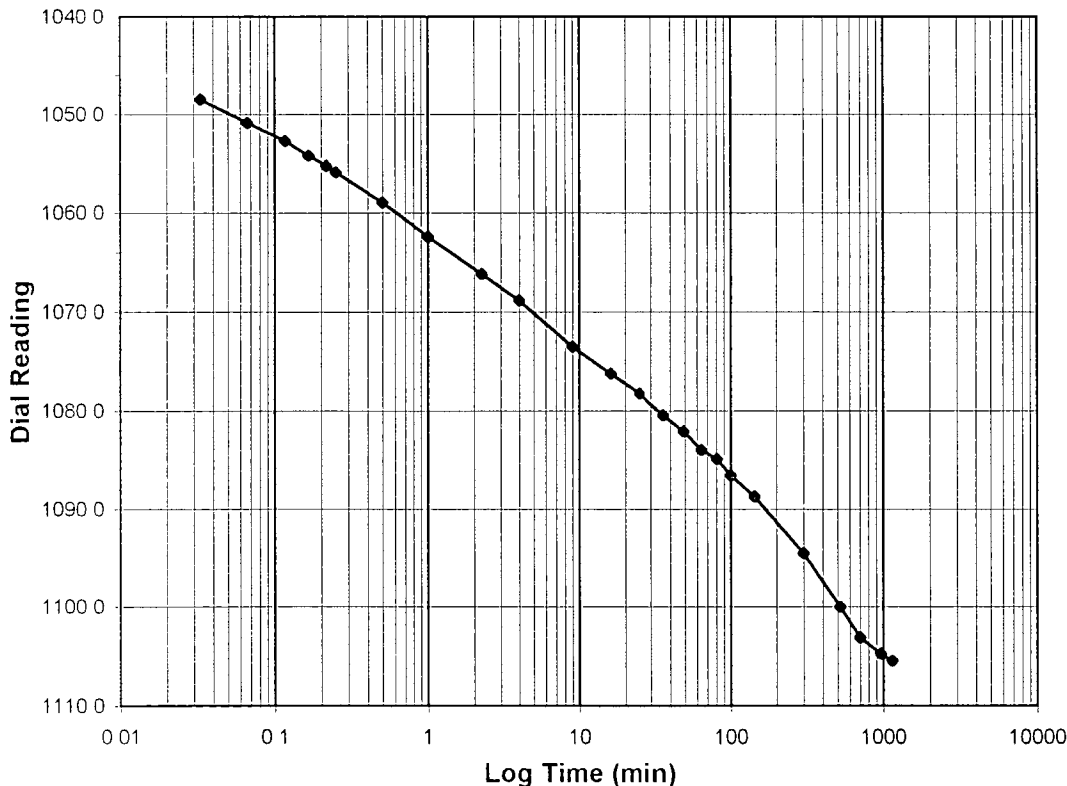
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	1.0-2.0
Final Reading (div)	1105.4
Consolidometer No.	4
1 Division (in)	0.0001

Start Date	9/29/04
Start Time	14:26:51

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>1012.4</b>
0.03	1048.5
0.07	1050.9
0.12	1052.7
0.17	1054.2
0.22	1055.2
0.25	1055.9
0.50	1058.9
1.00	1062.4
2.25	1066.2
4.00	1068.8
9.02	1073.5
16.00	1076.2
25.00	1078.3
36.00	1080.5
49.00	1082.1
64.02	1084.0
81.00	1084.9
100.00	1086.6
144.00	1088.7
300.00	1094.5
520.00	1100.0
700.00	1103.1
960.00	1104.7
1136.22	1105.4



Tested By *TM* Date *9/29/04* Checked By *GU* Date *10/8/04*



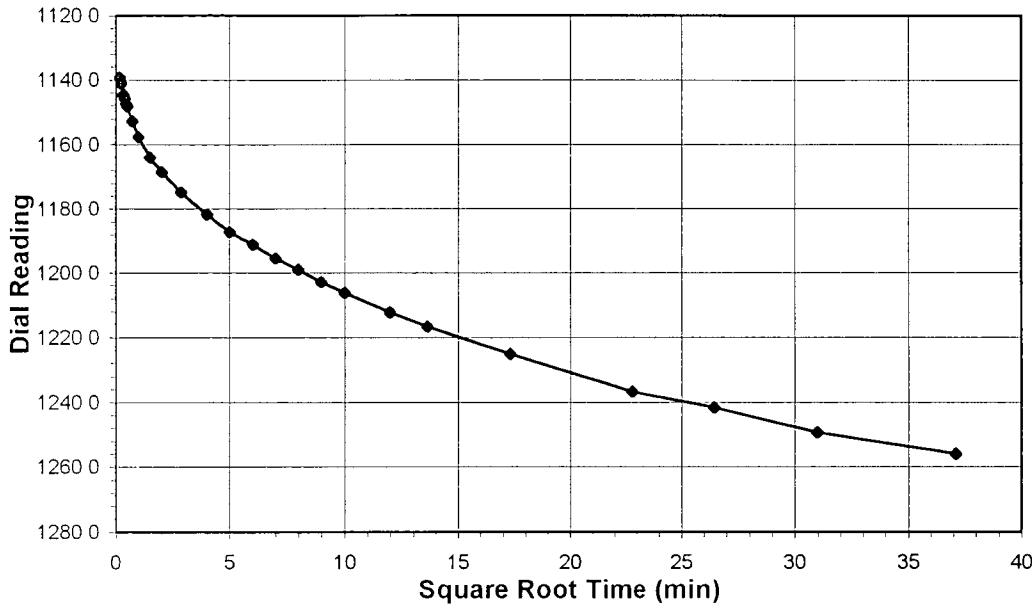


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

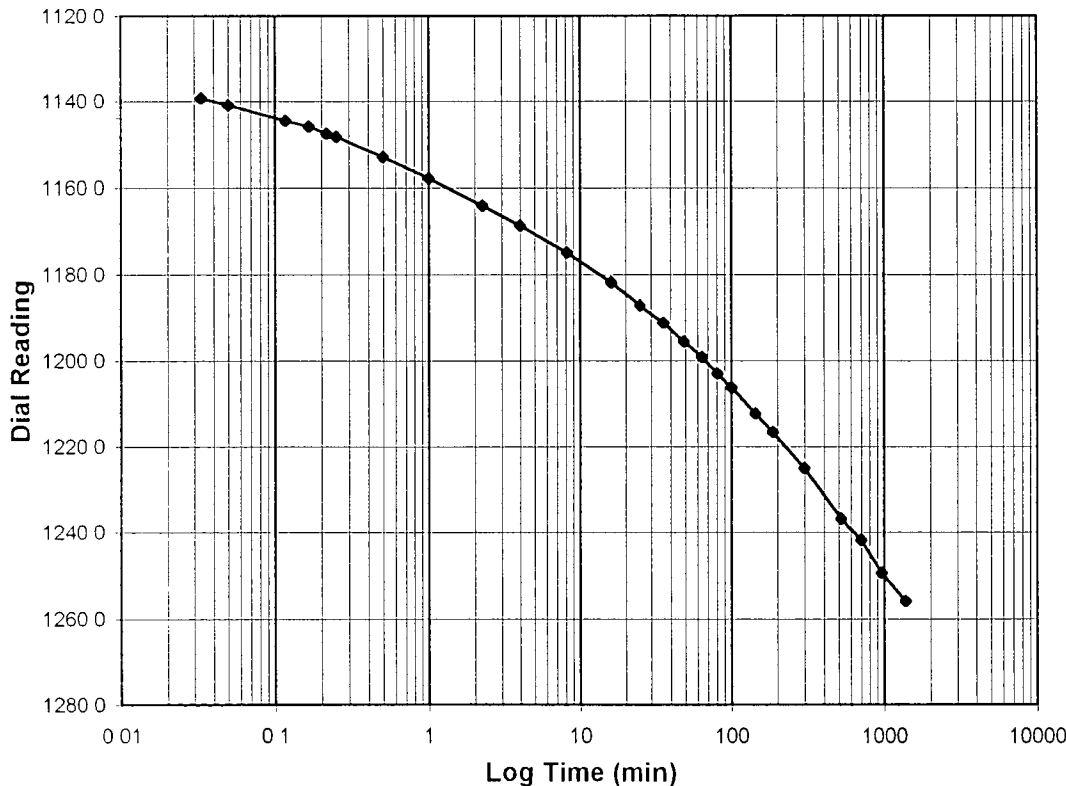
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PPF-17 POST S/T
Lab ID	2004-221-03-06	Visual Description	BROWN STABILIZED MATERIAL (RECEIVED LOOSE IN TUBE)

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	2.0-4.0
Final Reading (div)	1256.0
Consolidometer No.	4
1 Division (in)	0.0001
Start Date	9/30/04
Start Time	9:28:34

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	1105.4
0.03	1139.3
0.05	1141.0
0.12	1144.5
0.17	1145.8
0.22	1147.6
0.25	1148.3
0.50	1152.9
1.00	1157.8
2.25	1164.1
4.00	1168.6
8.15	1174.9
16.00	1181.8
25.00	1187.2
36.00	1191.2
49.00	1195.6
64.00	1199.1
81.00	1203.0
100.00	1206.2
144.00	1212.4
185.67	1216.6
300.00	1225.2
520.00	1236.8
700.00	1241.7
960.00	1249.4
1377.65	1256.0



Tested By TM Date 9/30/04 Checked By GU Date 10/8/04

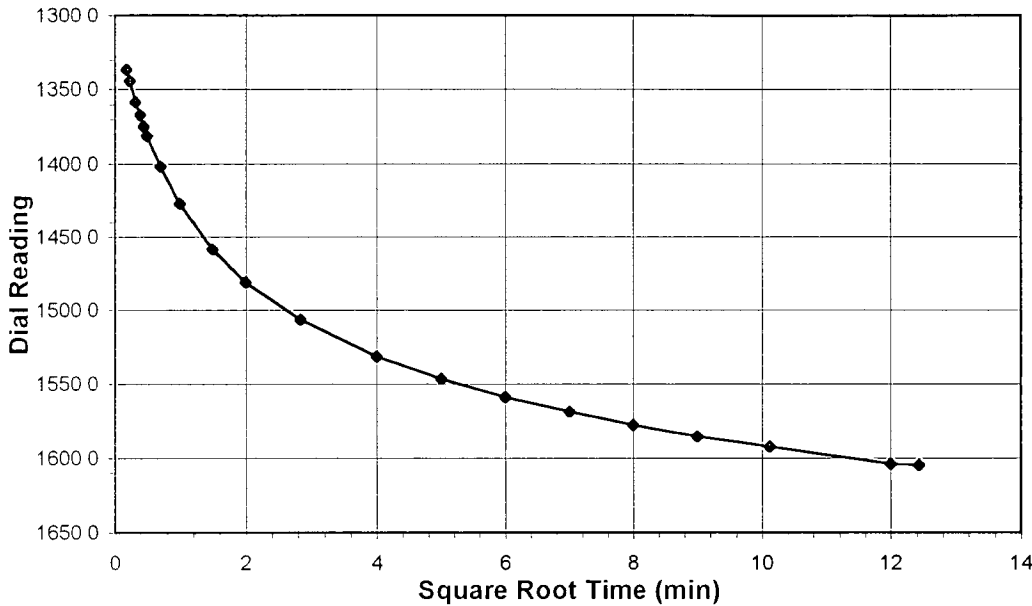


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

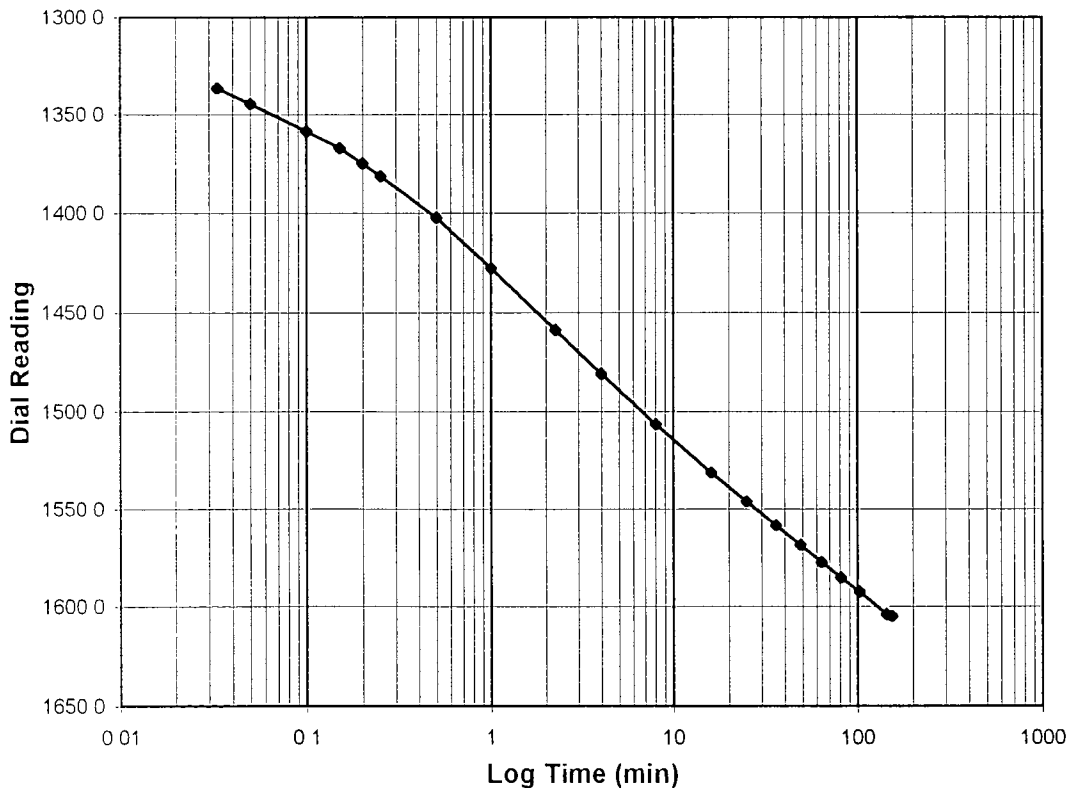
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PPF-17 POST S/T
Lab ID	2004-221-03-06	Visual Description	BROWN STABILIZED MATERIAL (RECEIVED LOOSE IN TUBE)

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	4.0-8.0
Final Reading (div)	1604.7
Consolidometer No.	4
1 Division (in)	0.0001
Start Date	10/1/04
Start Time	8:31:10

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	1256.0
0.03	1336.4
0.05	1344.4
0.10	1358.7
0.15	1367.2
0.20	1374.9
0.25	1381.4
0.50	1402.1
1.00	1427.5
2.25	1458.7
4.00	1480.9
8.03	1506.5
16.00	1531.2
25.00	1546.4
36.00	1558.7
49.00	1568.7
64.00	1577.6
81.00	1585.4
102.43	1592.5
144.00	1603.8
154.48	1604.7



Tested By *TM* Date *10/1/04* Checked By *GU* Date *10/8/04*

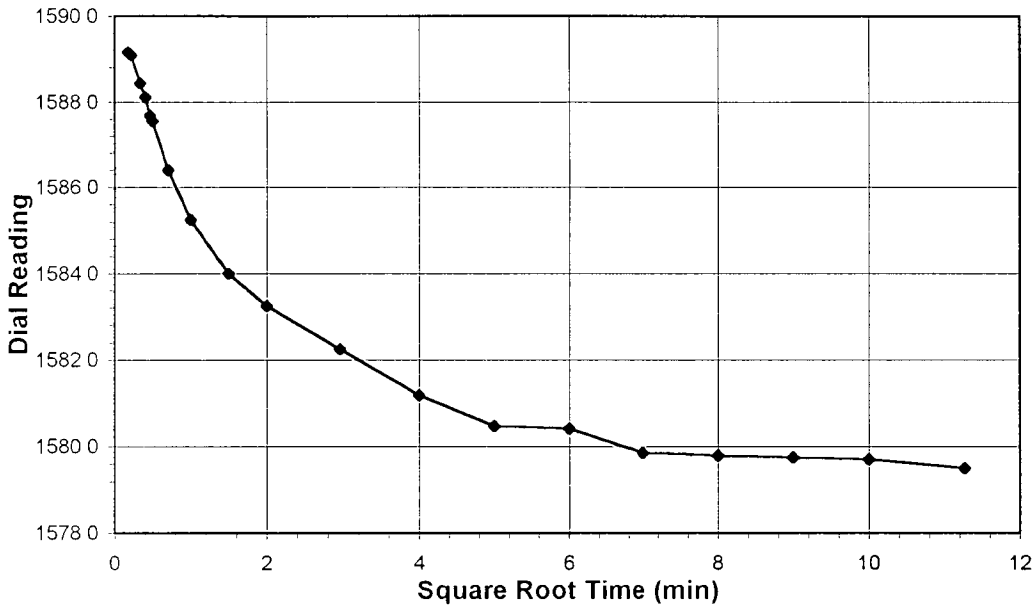


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-03	Sample No.	PPF-17 POST S/T
Lab ID	2004-221-03-06	Visual Description	BROWN STABILIZED MATERIAL (RECEIVED LOOSE IN TUBE)

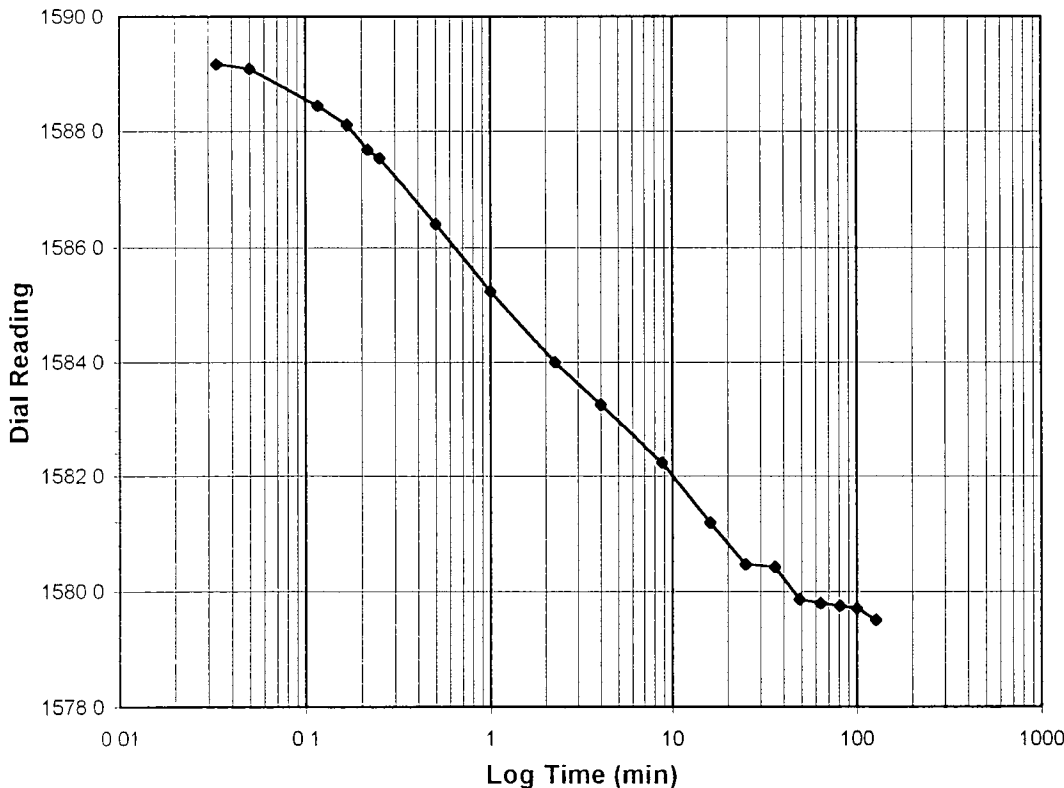
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



<b>Test Load (tsf)</b>	<b>8.0-4.0</b>
<b>Final Reading (div)</b>	<b>1579.5</b>
Consolidometer No.	4
1 Division (in)	0.0001

Start Date	10/1/04
Start Time	11:08:47

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>1604.7</b>
0.03	1589.2
0.05	1589.1
0.12	1588.4
0.17	1588.1
0.22	1587.7
0.25	1587.6
0.50	1586.4
1.00	1585.2
2.25	1584.0
4.00	1583.3
8.78	1582.2
16.00	1581.2
25.00	1580.5
36.00	1580.4
49.00	1579.9
64.02	1579.8
81.00	1579.8
100.00	1579.7
126.92	1579.5



Tested By *TM* Date *10/1/04* Checked By *GU* Date *10/18/04*

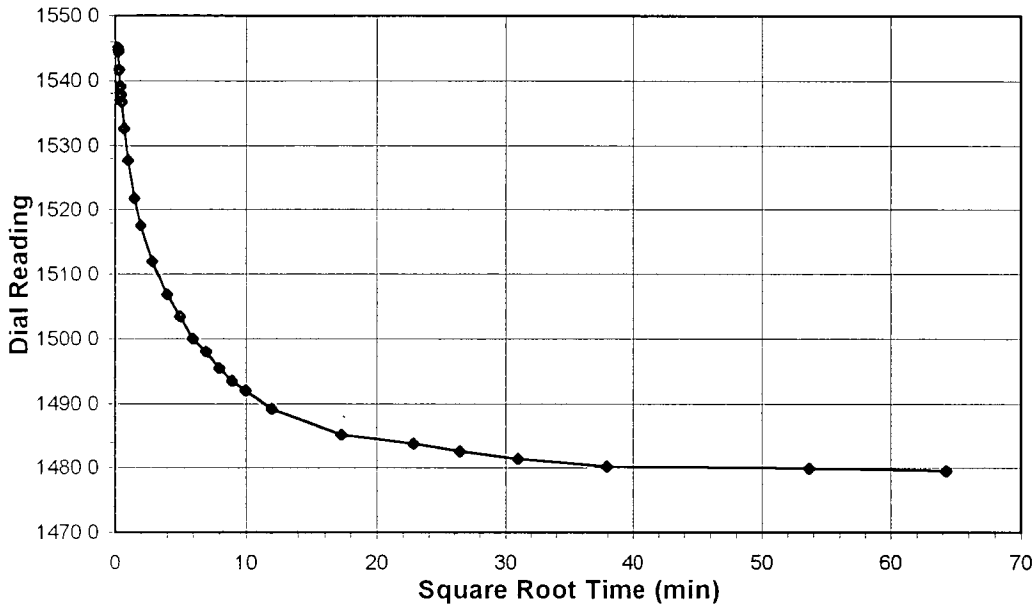


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PPF-17 POST S/T
Lab ID	2004-221-03-06	Visual Description	BROWN STABILIZED MATERIAL (RECEIVED LOOSE IN TUBE)

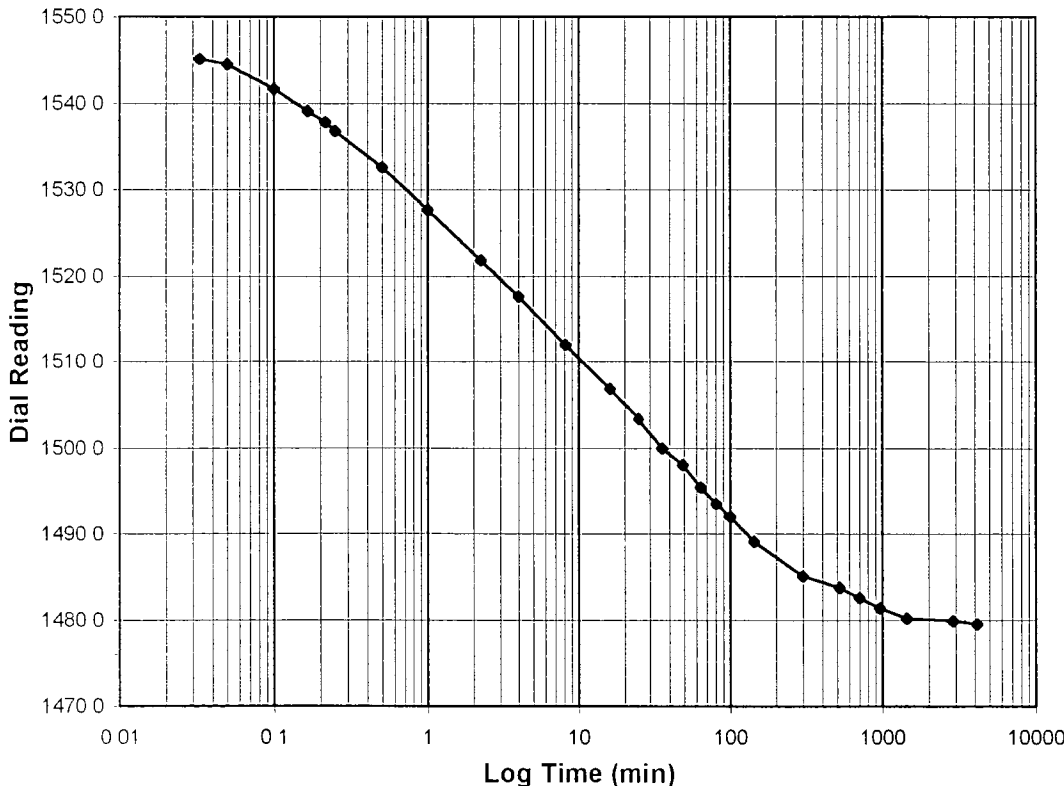
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	4.0-1.0
Final Reading (div)	1479.5
Consolidometer No.	4
1 Division (in)	0 0001

Start Date	10/1/04
Start Time	13:20:33

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>1579.5</b>
0.03	1545.1
0.05	1544.5
0.10	1541.6
0.17	1539.1
0.22	1537.8
0.25	1536.8
0.50	1532.6
1.00	1527.7
2.25	1521.8
4.00	1517.6
8.18	1512.0
16.00	1506.8
25.00	1503.4
36.00	1500.0
49.00	1498.0
64.00	1495.4
81.00	1493.5
100.00	1492.0
144.00	1489.1
300.00	1485.1
520.00	1483.7
700.00	1482.6
960.00	1481.4
1440.00	1480.2
2880.00	1479.9
4136.05	1479.5



Tested By TM Date 10/1/04 Checked By GU Date 10/8/04

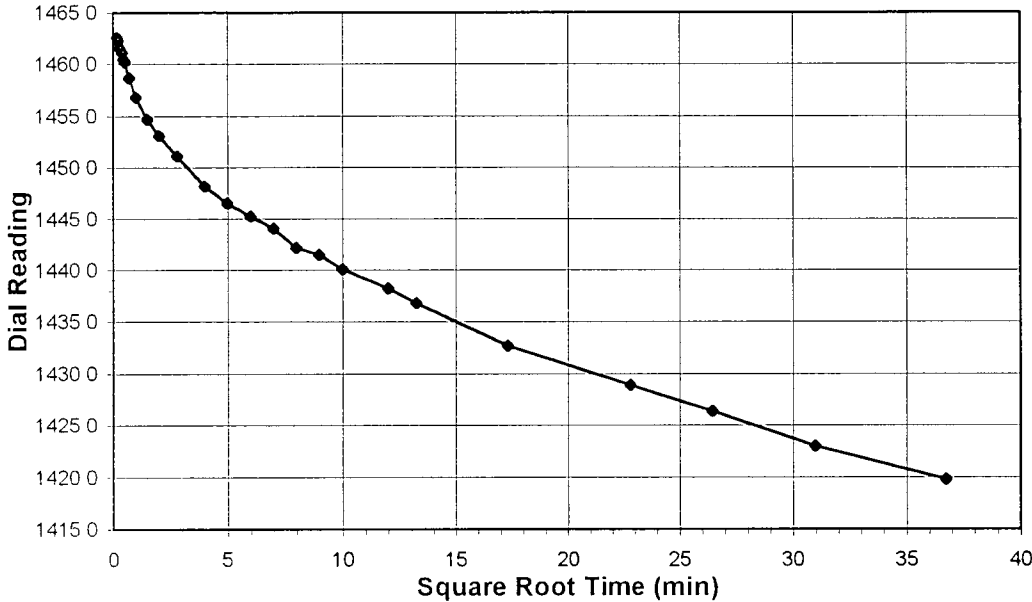


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PPF-17 POST S/T
Lab ID	2004-221-03-06	Visual Description	BROWN STABILIZED MATERIAL (RECEIVED LOOSE IN TUBE)

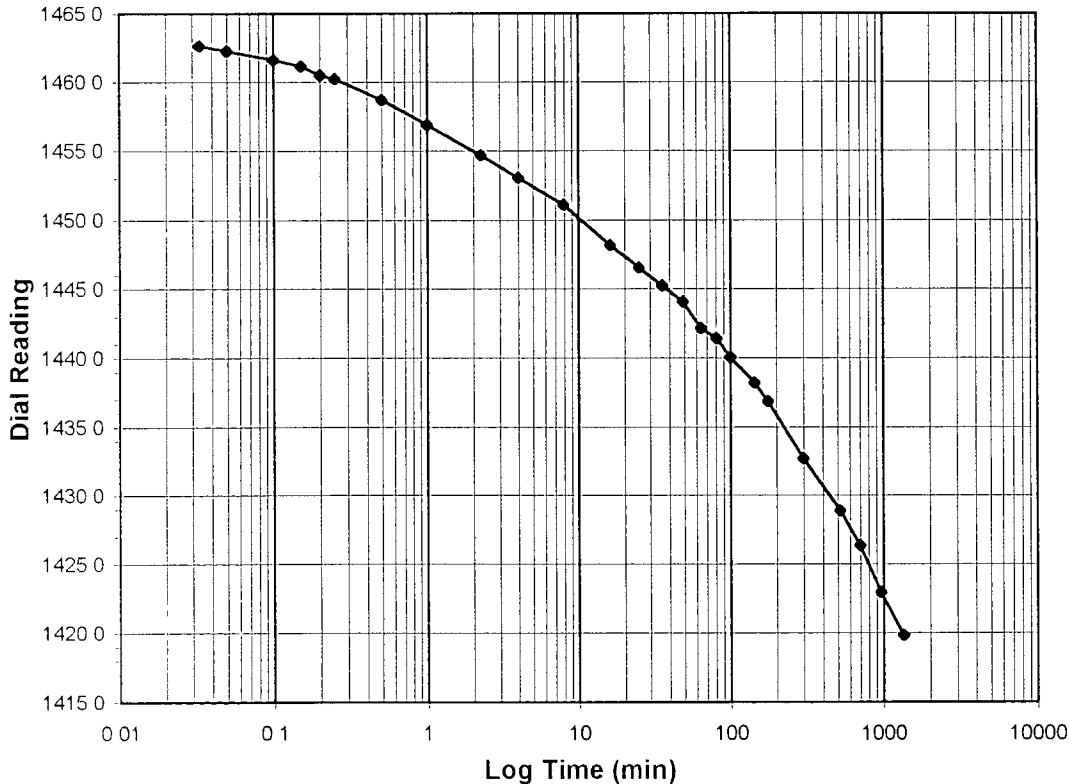
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	1.0-0.25
Final Reading (div)	1419.8
Consolidometer No.	4
1 Division (in)	0.0001

Start Date	10/4/04
Start Time	10:27:20

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>1479.5</b>
0.03	1462.6
0.05	1462.3
0.10	1461.6
0.15	1461.1
0.20	1460.5
0.25	1460.2
0.50	1458.7
1.00	1456.9
2.25	1454.7
4.00	1453.1
7.93	1451.1
16.00	1448.2
25.00	1446.5
36.00	1445.2
49.00	1444.1
64.00	1442.2
81.00	1441.5
100.00	1440.1
144.00	1438.2
175.52	1436.8
300.00	1432.7
520.00	1428.9
700.00	1426.4
960.00	1423.0
1349.78	1419.8



Tested By *TM* Date *10/4/04* Checked By *GU* Date *10/8/04*

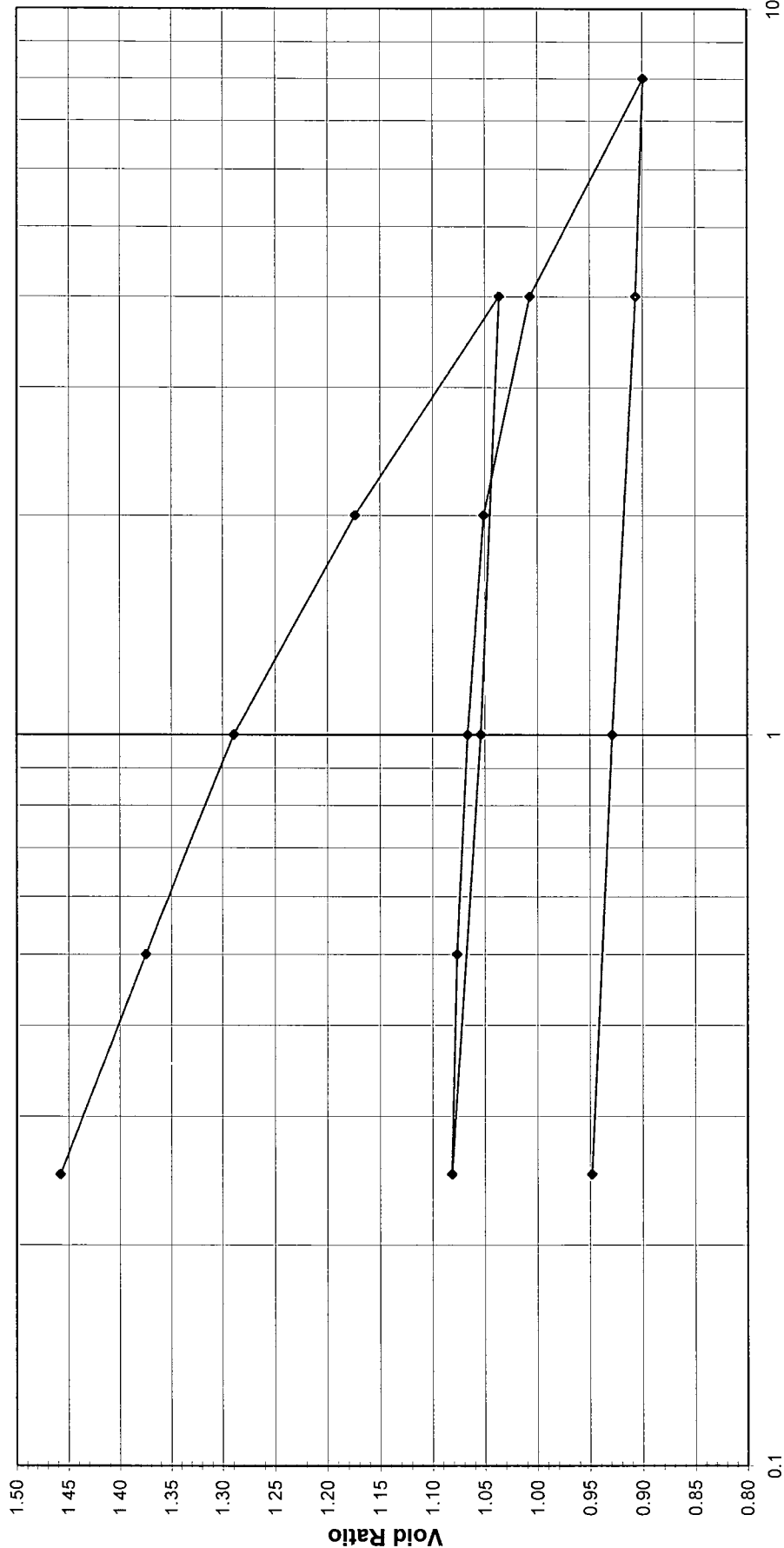


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 / AASHTO T216-03 (SOP-S24)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Reference	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No	PFP-33 POST S/T
Lab ID	2004-221-03-07	Visual Description	BLACK STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Log P (tsf)

Tested By TM Date 9/27/04 Approved By DB Date 10/8/04



# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 / AASHTO T216-03 (SOP-S24)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Reference	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PFP-33 POST S/T
Lab ID	2004-221-03-07	Visual Description	BLACK STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED

**Consolidometer No.** 3

**1 Division** = 0.0001 (in)

## Sample Properties

	Initial	Final
<i>Water Content</i>		
Tare Number	1399	444
Wt. Tare & WS (gm)	138.72	214.25
Wt. Tare & DS (gm)	103.20	183.40
Wt. Water (gm)	35.52	30.85
Wt. Tare (gm)	38.19	99.87
Wt. DS (gm)	65.01	83.53
Water Content (%)	54.64	36.93
<i>Sample Parameters</i>		
Sample Diameter (in)	2.5	2.5
Sample Height (in)	1	0.760
Sample Volume (cc)	80.44	61.15
Wt. Wet Sample + Ring (gm)	277.03	262.02
Wt. of Ring (gm)	145.97	145.97
Wt. of Wet Sample (gm)	131.06	116.05
Wet Density (pcf)	101.67	118.43
Wet Density (g/cc)	1.63	1.90
Water Content (%)	54.64	36.93
Wt. of Dry Sample (gm)	84.75	84.75
Dry Density (pcf)	65.75	86.49
Dry Density (g/cc)	1.05	1.39
Void Ratio	1.5626	0.9481
Saturation (%)	94.41	105.18
Specific Gravity	2.70	Assumed

## Test Data Summary

Applied Pressure (tsf)	Final Dial Reading (div)	Machine Deflection (div)	Corrected Reading (div)	Height of Sample (mm)	Volume (cc)	Dry Density (g/cc)	Void Ratio
Seating	0	0	0	25.400	80.440	1.05362	1.56260
0.25	410.5	0.8	409.7	24.359	77.145	1.09863	1.45762
0.5	735.2	2.5	732.8	23.539	74.546	1.13693	1.37482
1	1074.3	7.6	1066.7	22.690	71.859	1.17943	1.28923
2	1533.2	15.6	1517.6	21.545	68.233	1.24212	1.17370
4	2083.2	28.7	2054.5	20.181	63.913	1.32606	1.03610
1	1996.9	11.6	1985.3	20.357	64.470	1.31461	1.05384
0.25	1882.3	4.4	1877.9	20.630	65.334	1.29722	1.08137
0.5	1901.4	4.8	1896.6	20.583	65.183	1.30022	1.07656
1	1945.2	8.1	1937.2	20.480	64.857	1.30676	1.06618
2	2013.5	16.3	1997.2	20.327	64.374	1.31657	1.05079
4	2196.6	27.5	2169.1	19.891	62.992	1.34546	1.00675
8	2631.9	43.0	2588.9	18.824	59.615	1.42168	0.89916
4	2599.0	38.7	2560.4	18.897	59.844	1.41622	0.90648
1	2489.7	16.2	2473.5	19.117	60.543	1.39989	0.92873
0.25	2405.8	7.8	2398.0	19.309	61.150	1.38598	0.94808

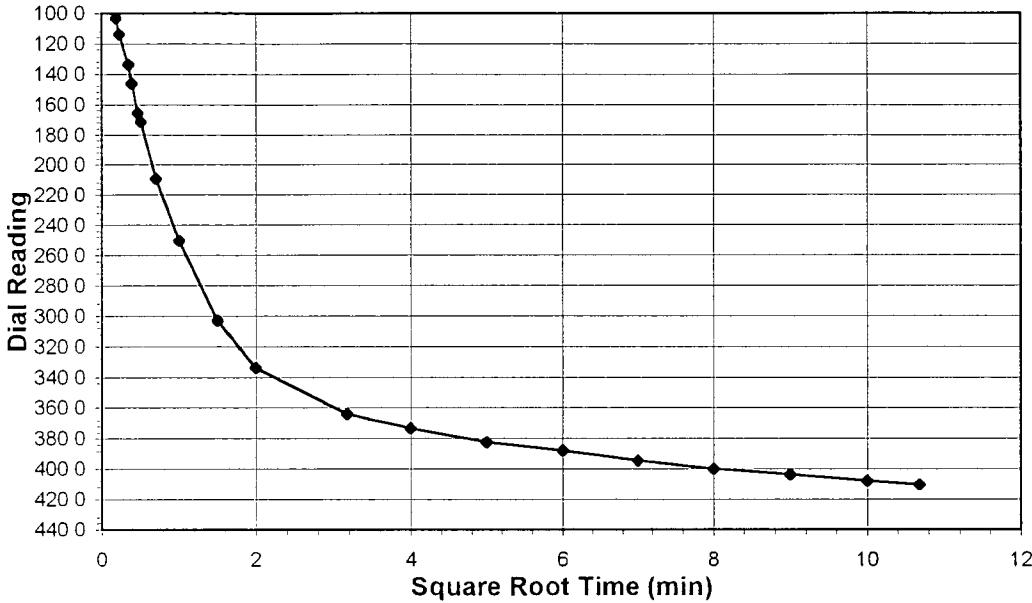
Tested By TM Date 9/27/04 Input Checked By CS Date 10/8/04



**ONE DIMENSIONAL CONSOLIDATION**  
ASTM D 2435-96 (SOP-S24A)

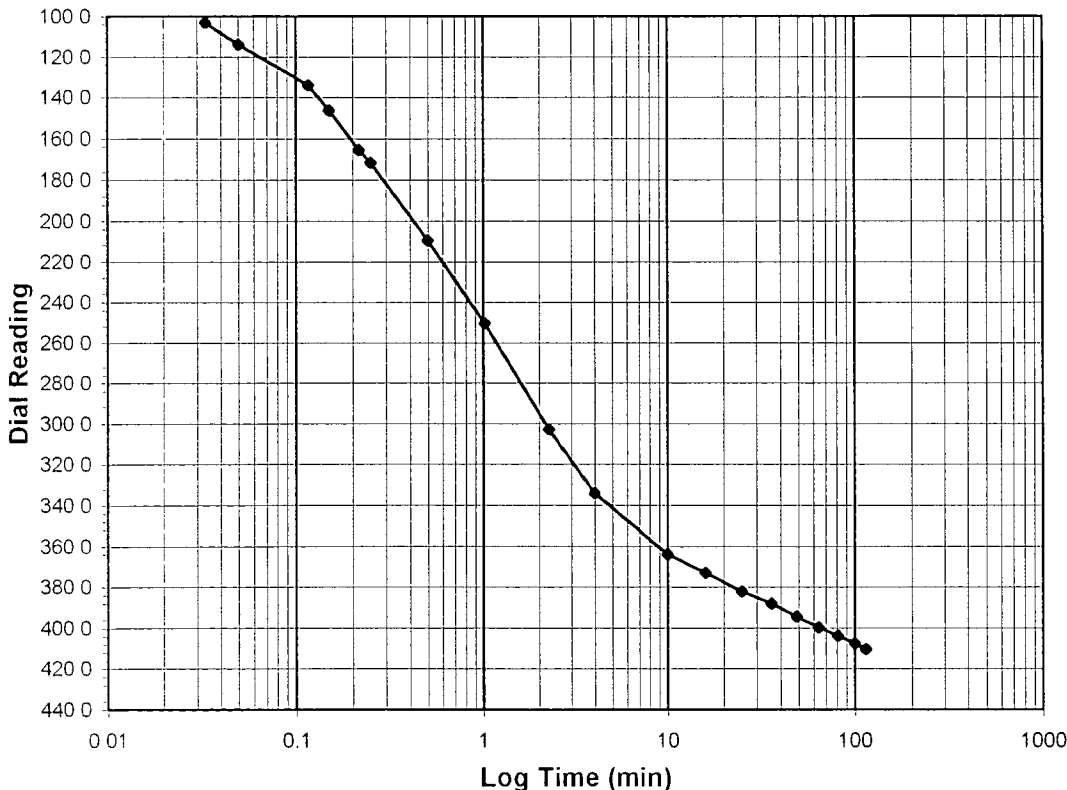
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PFP-33 POST S/T
Lab ID	2004-221-03-07	Visual Description	BLACK STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



<b>Test Load</b> (tsf)	<b>0-0.25</b>
<b>Final Reading</b> (div)	<b>410.5</b>
Consolidometer No.	3
1 Division (in)	0.0001
<b>Start Date</b>	<b>9/27/04</b>
<b>Start Time</b>	<b>13:28:53</b>

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>0.0</b>
0.03	103.2
0.05	113.9
0.12	133.9
0.15	146.3
0.22	165.5
0.25	171.5
0.50	209.5
1.02	250.2
2.25	303.0
4.00	334.1
10.05	364.0
16.00	373.2
25.00	382.3
36.00	388.0
49.00	394.5
64.00	399.8
81.00	403.8
100.00	407.7
114.10	410.5



Tested By TM Date 9/27/04 Checked By GU Date 10/8/04



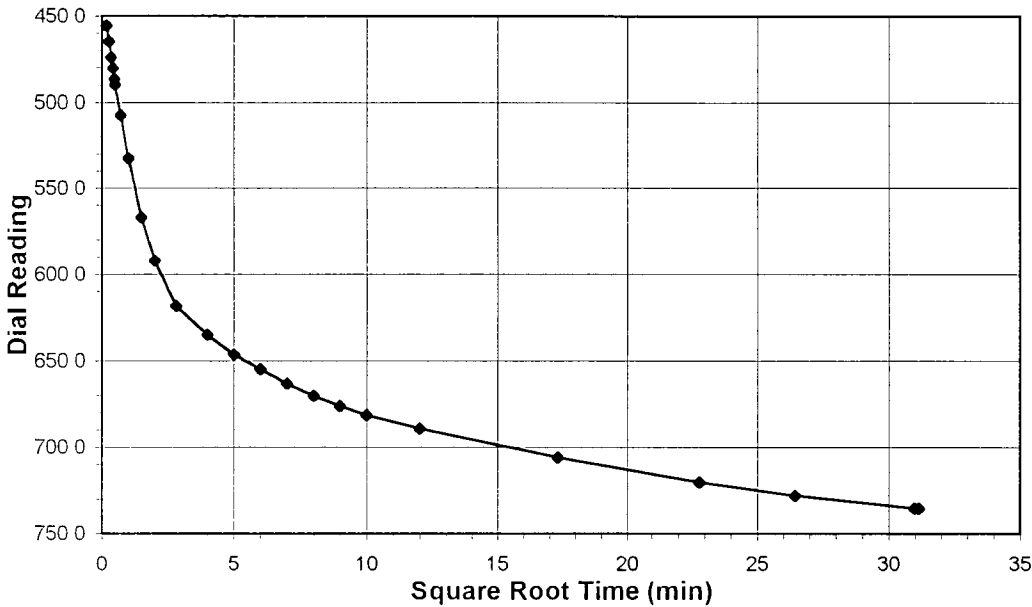


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PPF-33 POST S/T
Lab ID	2004-221-03-07	Visual Description	BLACK STABILIZED MATERIAL

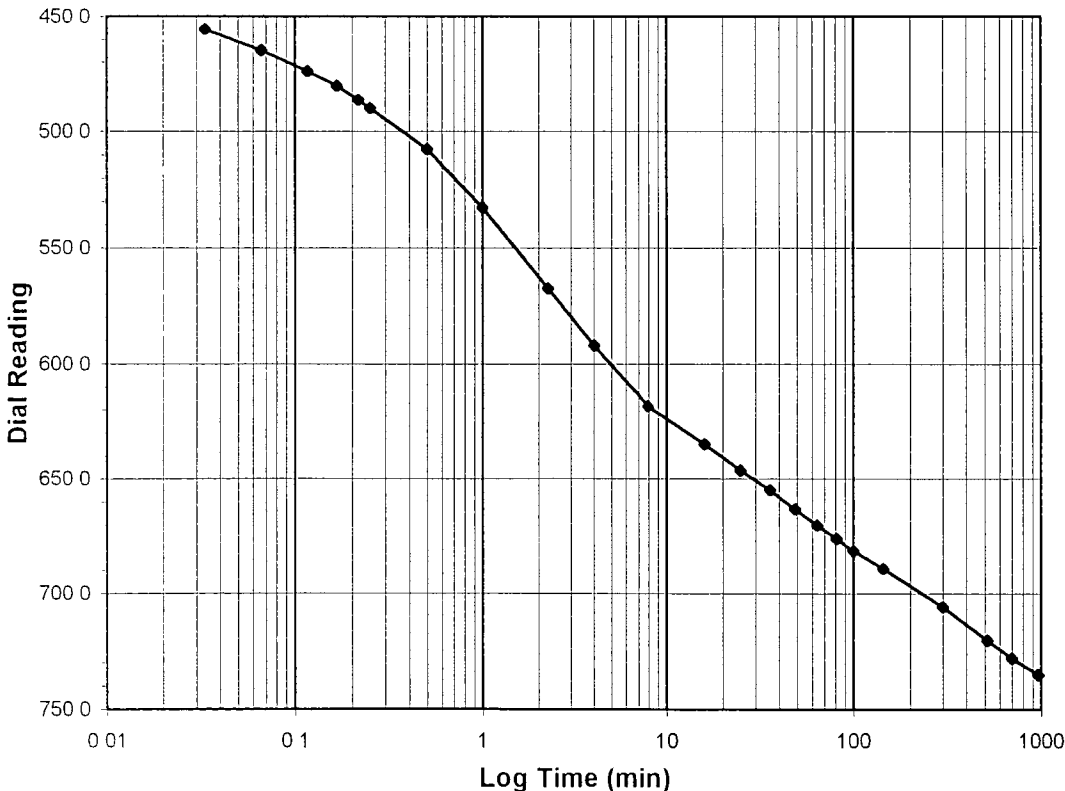
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.25-0.5
Final Reading (div)	735.2
Consolidometer No.	3
1 Division (in)	0.0001

Start Date	9/27/04
Start Time	15:26:17

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>410.5</b>
0.03	455.5
0.07	464.7
0.12	473.9
0.17	480.3
0.22	486.5
0.25	489.9
0.50	507.6
1.00	532.6
2.25	567.4
4.02	592.1
7.98	618.4
16.00	635.2
25.00	646.4
36.00	655.1
49.00	663.3
64.00	670.3
81.00	676.2
100.00	681.4
144.00	689.2
300.00	705.9
520.00	720.2
700.00	728.0
960.00	735.1
970.48	735.2



Tested By TM Date 9/27/04 Checked By GU Date 10/8/04

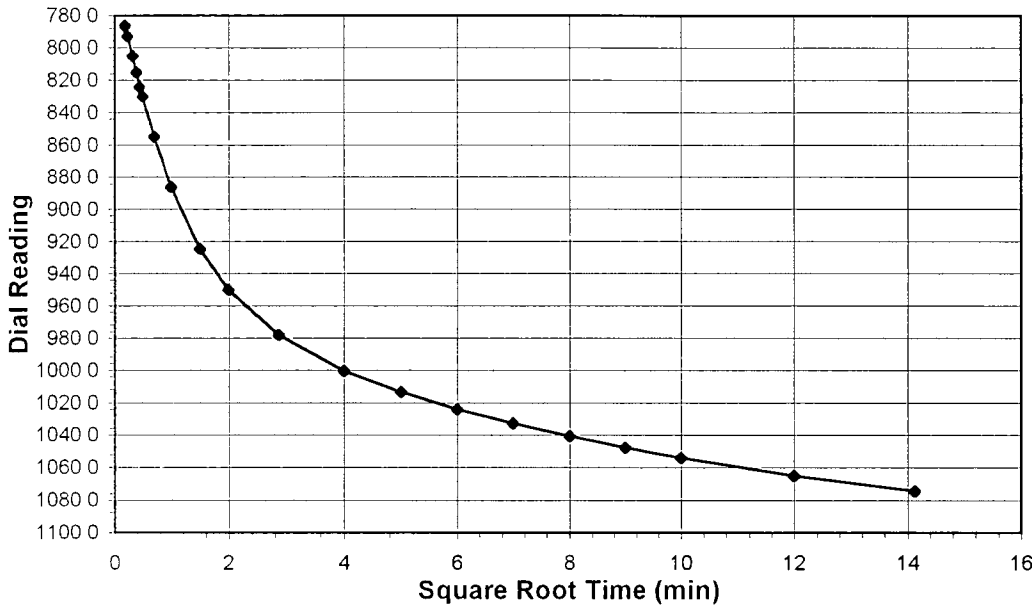


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PFP-33 POST S/T
Lab ID	2004-221-03-07	Visual Description	BLACK STABILIZED MATERIAL

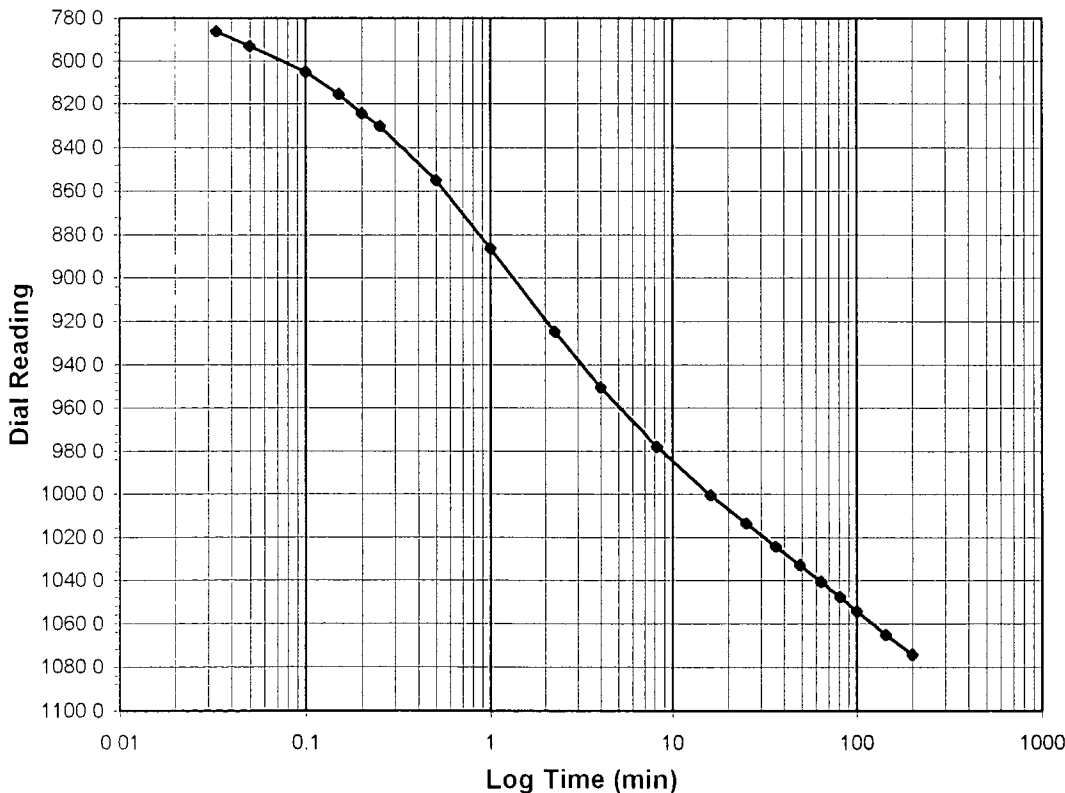
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.5-1.0
Final Reading (div)	1074.3
Consolidometer No.	3
1 Division (in)	0.0001

Start Date	9/28/04
Start Time	8:07:46

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>735.2</b>
0.03	786.3
0.05	793.1
0.10	805.1
0.15	815.6
0.20	824.4
0.25	830.2
0.50	855.0
1.00	886.2
2.25	924.8
4.00	950.4
8.23	978.0
16.00	1000.6
25.00	1013.6
36.00	1024.2
49.00	1032.8
64.00	1040.5
81.00	1047.6
100.00	1054.2
144.00	1065.0
199.65	1074.3



Tested By *TM* Date *9/28/04* Checked By *GU* Date *10/8/04*

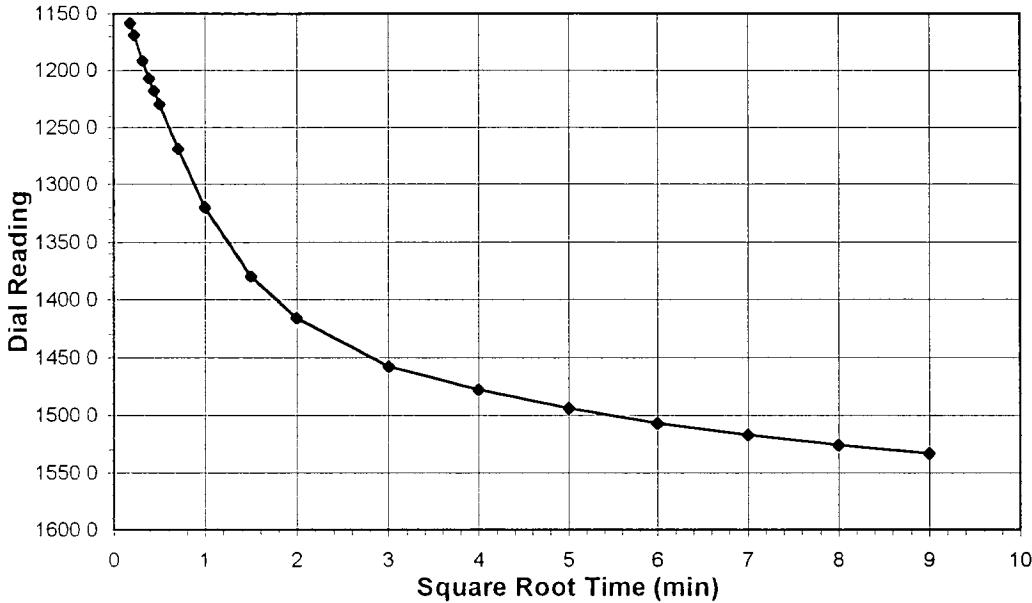


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

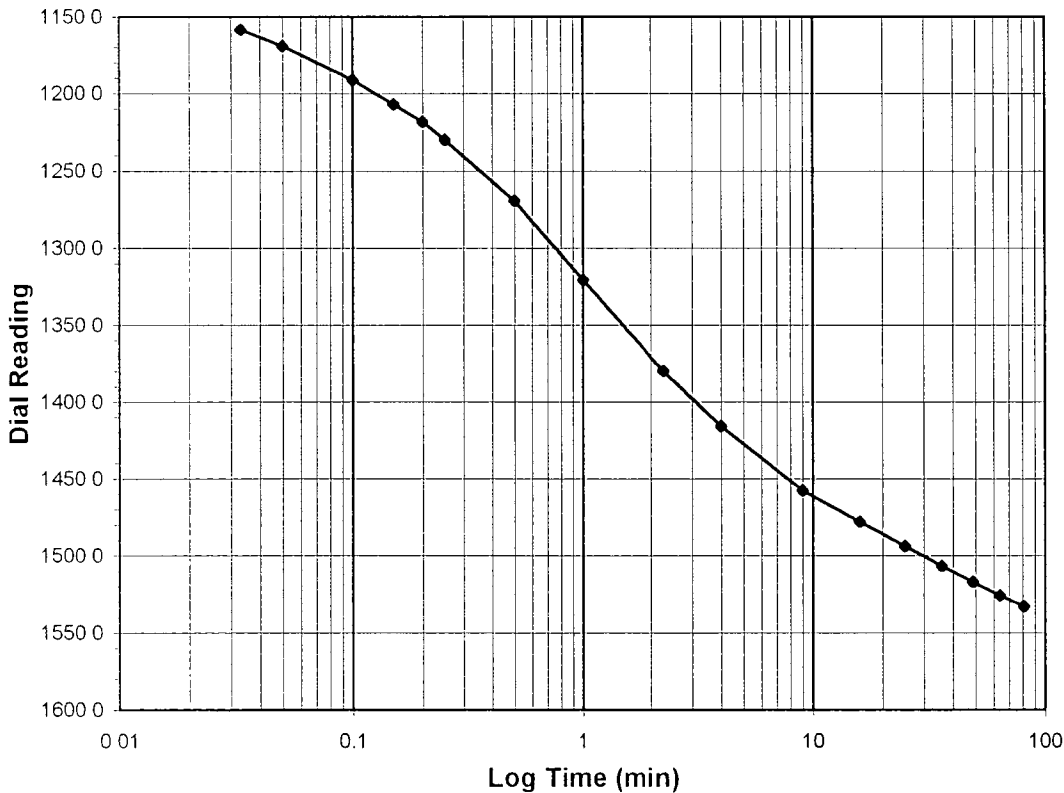
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PPF-33 POST S/T
Lab ID	2004-221-03-07	Visual Description	BLACK STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



<b>Test Load</b>	(tsf)	<b>1.0-2.0</b>
<b>Final Reading</b>	(div)	<b>1533.2</b>
Consolidometer No.		3
1 Division	(in)	0.0001
Start Date		9/28/04
Start Time		11:37:00

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>1074.3</b>
0.03	1158.3
0.05	1169.0
0.10	1191.3
0.15	1207.2
0.20	1218.2
0.25	1229.8
0.50	1269.1
1.00	1320.1
2.25	1379.9
4.00	1416.1
9.02	1457.7
16.00	1478.0
25.00	1494.1
36.02	1506.9
49.00	1517.2
64.00	1525.8
81.00	1533.2



Tested By TM Date 9/28/04 Checked By GU Date 10/8/04

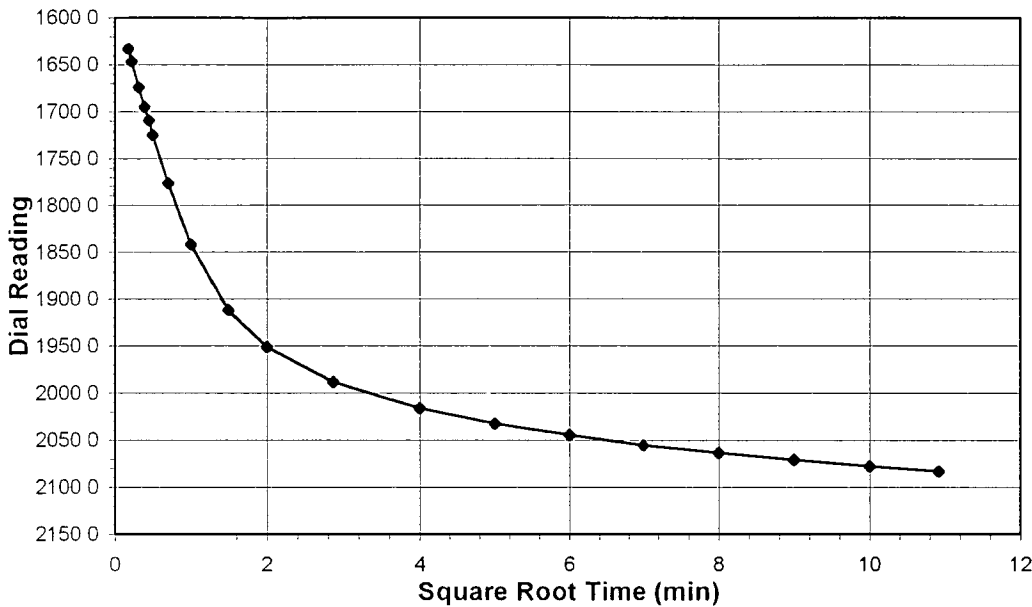


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

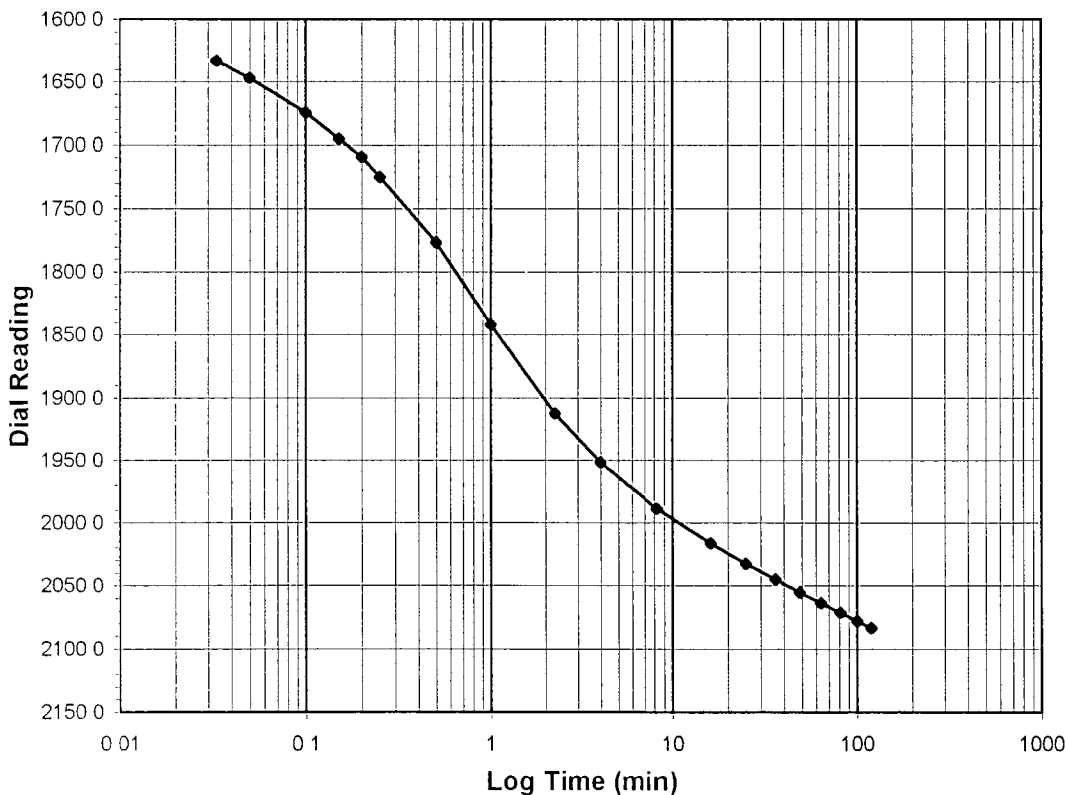
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-03	Sample No.	PF-33 POST S/T
Lab ID	2004-221-03-07	Visual Description	BLACK STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	2.0-4.0
Final Reading (div)	2083.2
Consolidometer No.	3
1 Division (in)	0.0001
Start Date	9/28/04
Start Time	13:18:23

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>1533.2</b>
0.03	1633.2
0.05	1646.6
0.10	1674.3
0.15	1695.1
0.20	1709.5
0.25	1725.0
0.50	1776.5
1.00	1841.6
2.25	1912.3
4.00	1951.3
8.22	1988.8
16.00	2016.4
25.00	2032.5
36.00	2044.7
49.00	2055.2
64.00	2063.5
81.00	2071.1
100.00	2077.7
119.17	2083.2



Tested By *TM* Date *9/28/04* Checked By *GU* Date *10/18/04*

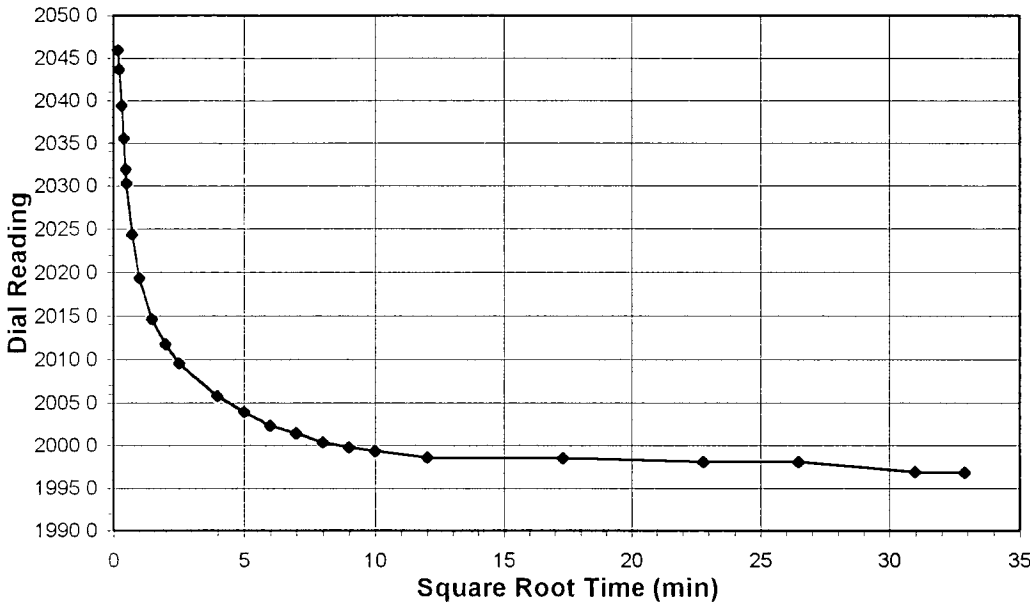


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

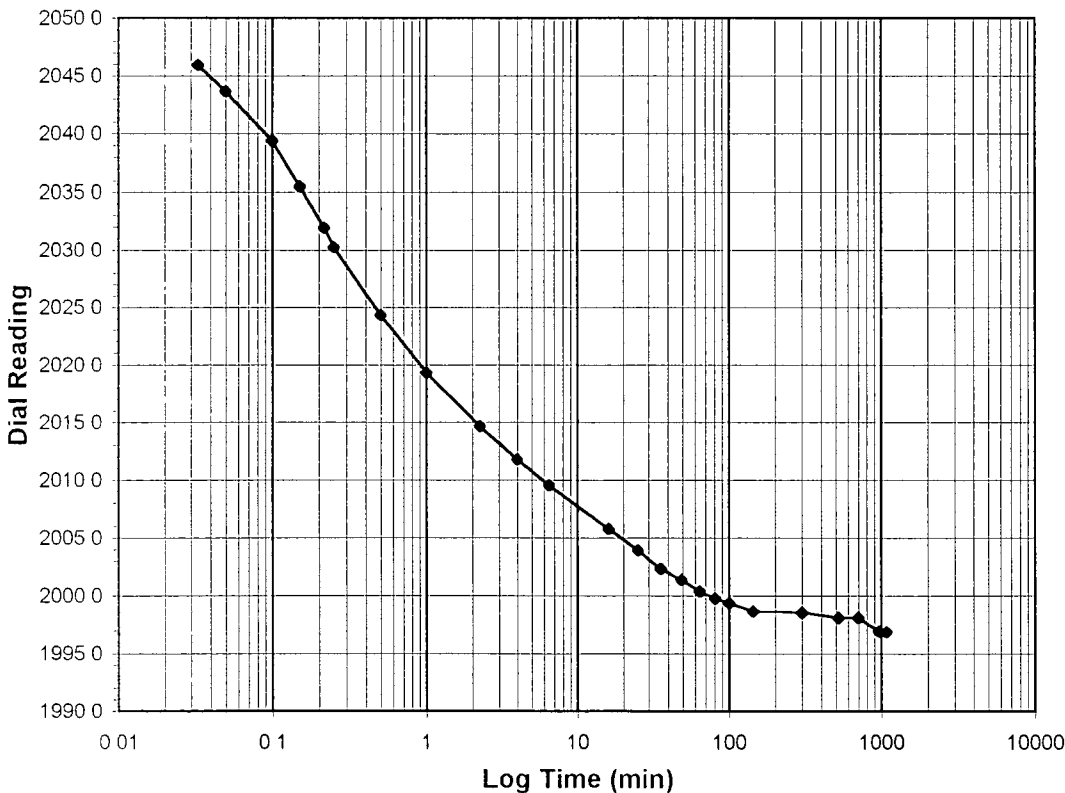
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-03	Sample No.	PPF-33 POST S/T
Lab ID	2004-221-03-07	Visual Description	BLACK STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



<b>Test Load (tsf)</b>	<b>4.0-1.0</b>
<b>Final Reading (div)</b>	<b>1996.9</b>
Consolidometer No.	3
1 Division (in)	0.0001
Start Date	9/28/04
Start Time	15:21:42

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>2083.2</b>
0.03	2046.0
0.05	2043.7
0.10	2039.4
0.15	2035.5
0.22	2032.0
0.25	2030.3
0.50	2024.3
1.00	2019.3
2.25	2014.6
4.00	2011.8
6.45	2009.5
16.00	2005.8
25.00	2003.9
36.00	2002.3
49.00	2001.4
64.00	2000.4
81.00	1999.8
100.00	1999.4
144.00	1998.6
300.00	1998.6
520.00	1998.1
700.00	1998.1
960.00	1996.9
1081.30	1996.9



Tested By *TM* Date *9/28/04* Checked By *GU* Date *10/8/04*

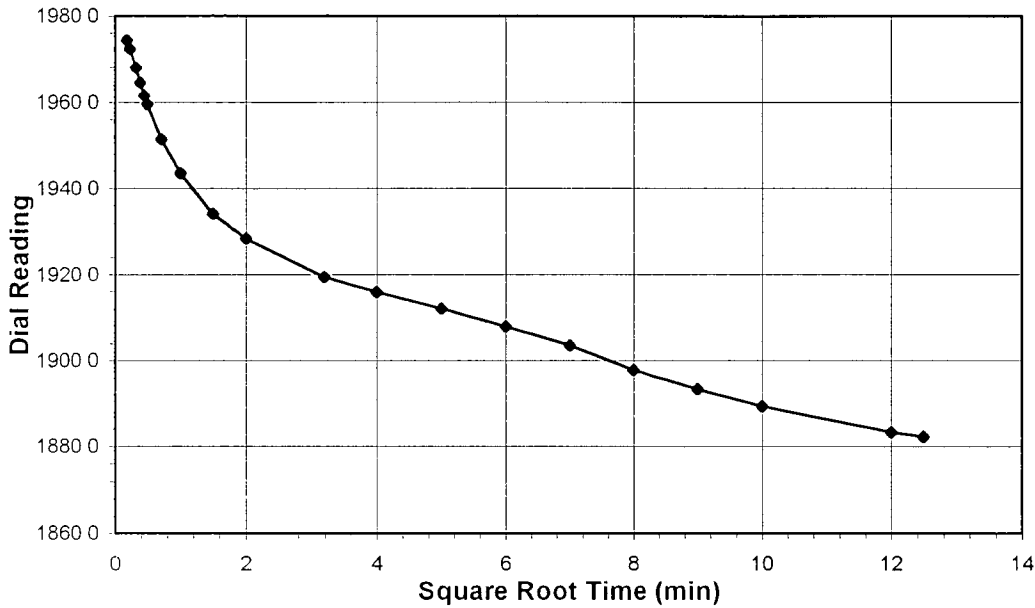


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-03	Sample No.	PPF-33 POST S/T
Lab ID	2004-221-03-07	Visual Description	BLACK STABILIZED MATERIAL

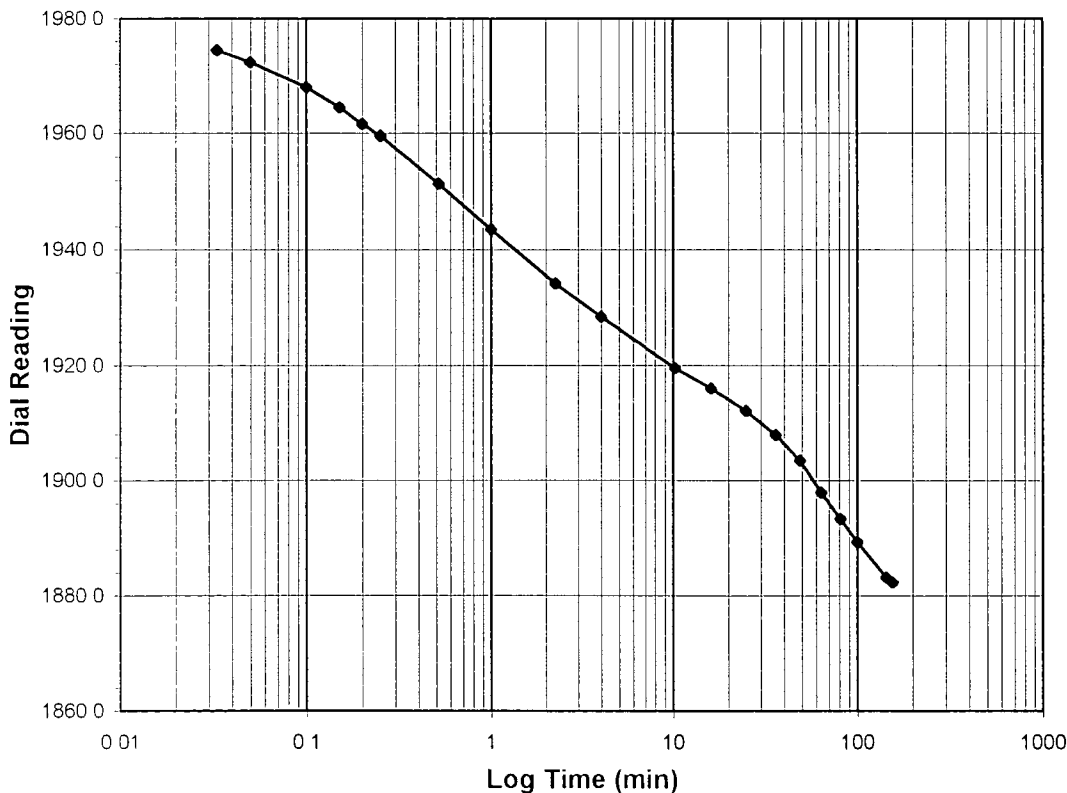
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	1.0-0.25
Final Reading (div)	1882.3
Consolidometer No.	3
1 Division (in)	0.0001

Start Date	9/29/04
Start Time	9:36:31

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>1996.9</b>
0.03	1974.5
0.05	1972.4
0.10	1968.1
0.15	1964.5
0.20	1961.6
0.25	1959.5
0.52	1951.5
1.00	1943.6
2.25	1934.2
4.00	1928.4
10.22	1919.5
16.00	1915.9
25.00	1912.1
36.00	1907.8
49.02	1903.4
64.00	1897.8
81.00	1893.3
100.00	1889.3
144.00	1883.2
156.08	1882.3



Tested By *TM* Date *9/29/04* Checked By *GU* Date *10/8/04*

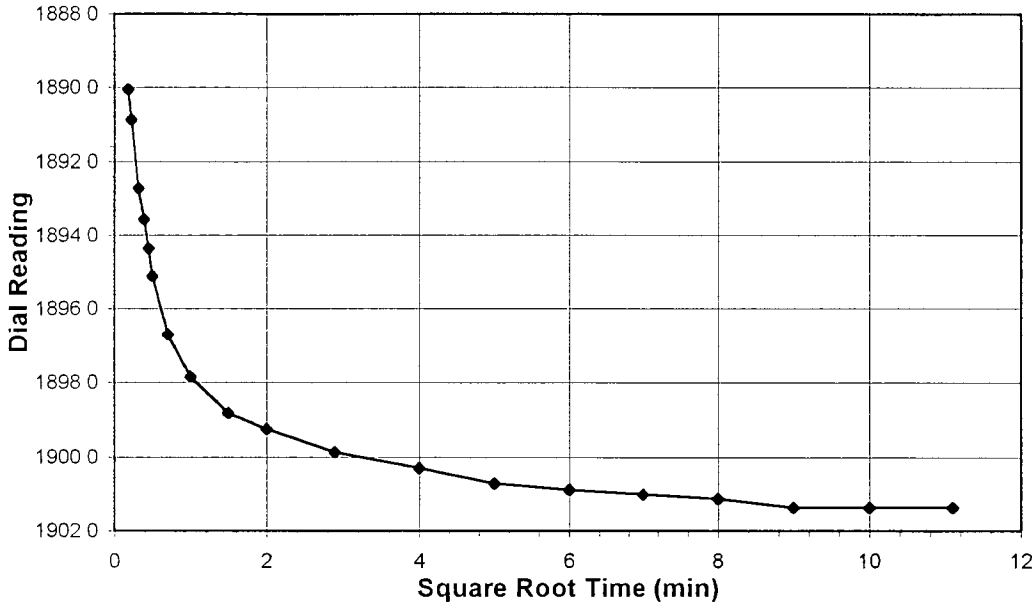


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

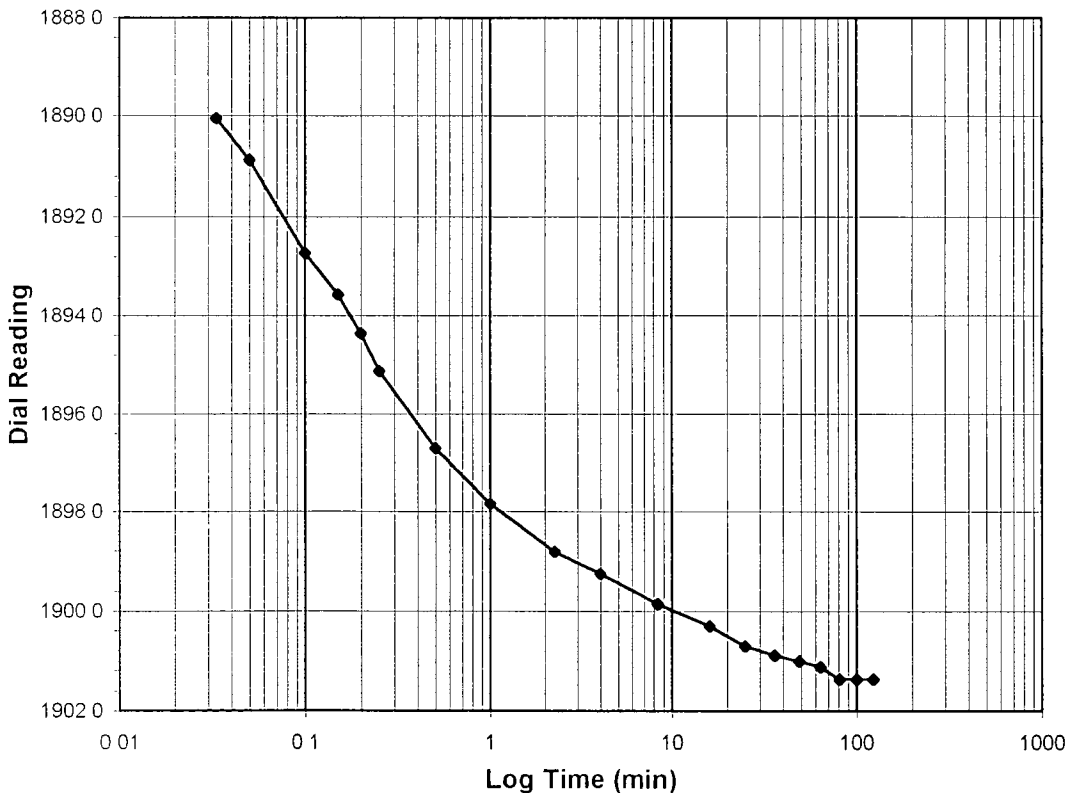
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-03	Sample No.	PPF-33 POST S/T
Lab ID	2004-221-03-07	Visual Description	BLACK STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.25-0.5
Final Reading (div)	1901.4
Consolidometer No.	3
1 Division (in)	0.0001
Start Date	9/29/04
Start Time	12:19:35

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>1882.3</b>
0.03	1890.0
0.05	1890.9
0.10	1892.7
0.15	1893.6
0.20	1894.4
0.25	1895.1
0.50	1896.7
1.00	1897.8
2.25	1898.8
4.00	1899.3
8.38	1899.9
16.00	1900.3
25.00	1900.7
36.00	1900.9
49.00	1901.0
64.00	1901.1
81.00	1901.4
100.00	1901.4
123.08	1901.4



Tested By TM Date 9/29/04 Checked By GO Date 10/8/04

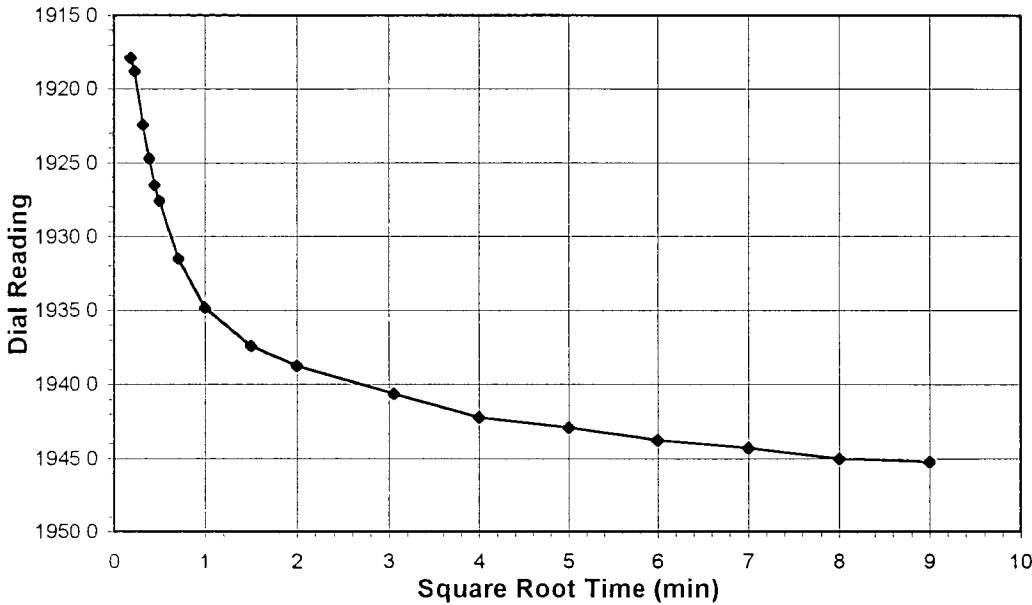


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

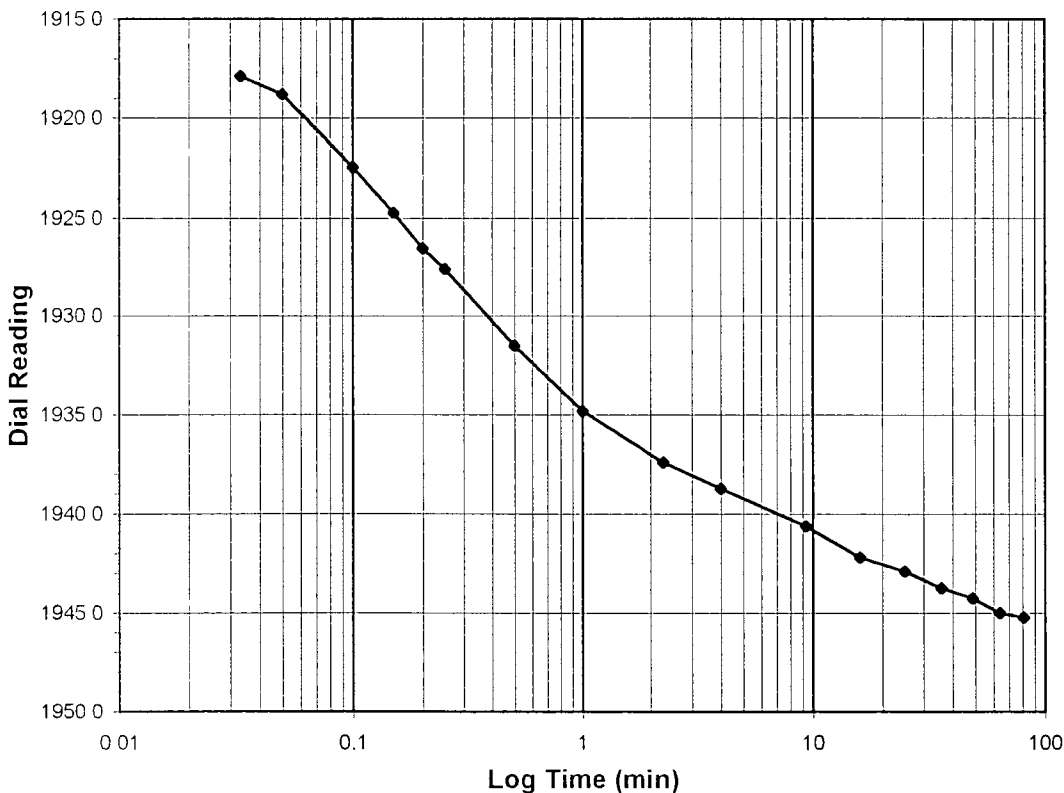
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PPF-33 POST S/T
Lab ID	2004-221-03-07	Visual Description	BLACK STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.5-1.0
Final Reading (div)	1945.2
Consolidometer No.	3
1 Division (in)	0.0001
Start Date	9/29/04
Start Time	14:26:44

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>1901.4</b>
0.03	1917.9
0.05	1918.8
0.10	1922.4
0.15	1924.7
0.20	1926.5
0.25	1927.6
0.50	1931.5
1.00	1934.8
2.25	1937.4
4.00	1938.7
9.33	1940.6
16.00	1942.2
25.00	1942.9
36.00	1943.8
49.00	1944.3
64.00	1945.0
81.00	1945.2



Tested By TM Date 9/29/04 Checked By GU Date 10/8/04



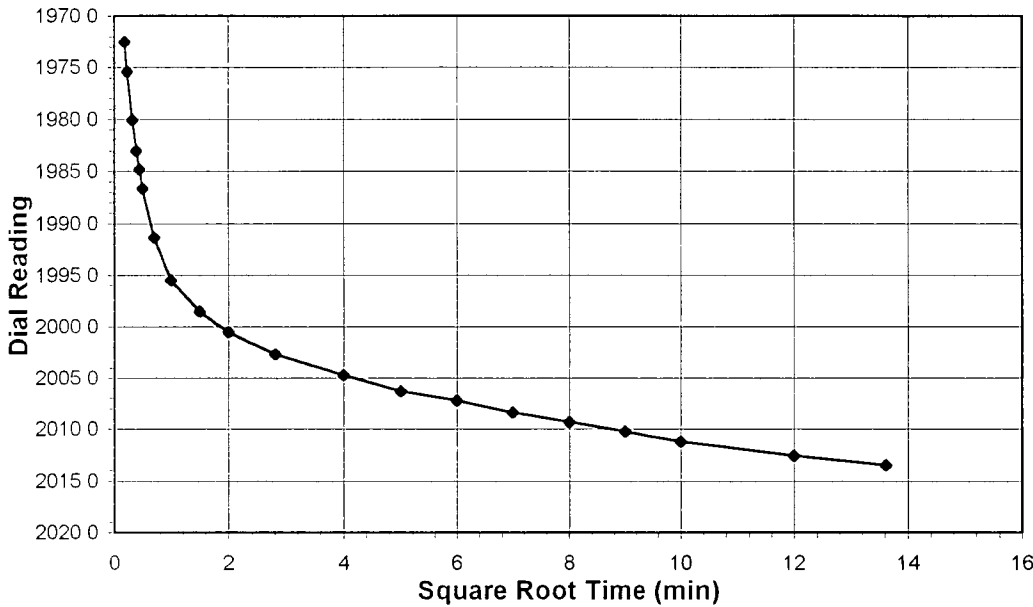


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

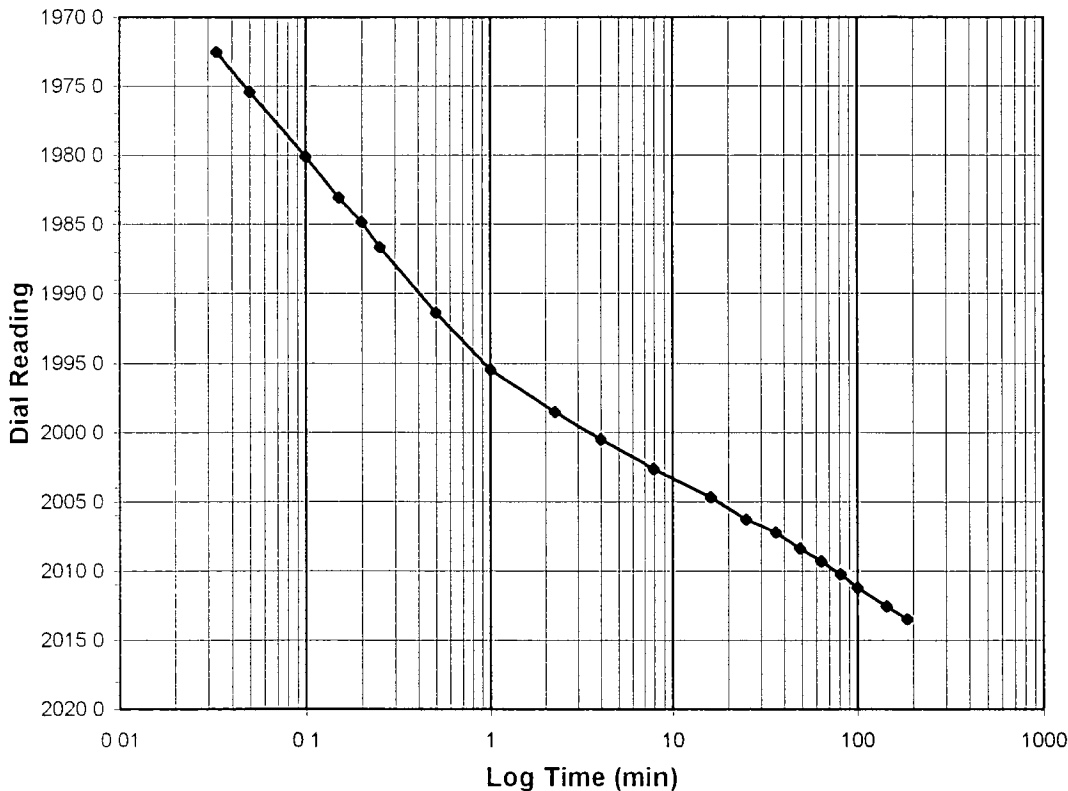
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PPF-33 POST S/T
Lab ID	2004-221-03-07	Visual Description	BLACK STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	1.0-2.0
Final Reading (div)	2013.5
Consolidometer No.	3
1 Division (in)	0.0001
Start Date	9/30/04
Start Time	9:28:49

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>1945.2</b>
0.03	1972.5
0.05	1975.4
0.10	1980.1
0.15	1983.1
0.20	1984.8
0.25	1986.7
0.50	1991.4
1.00	1995.5
2.25	1998.5
4.00	2000.5
7.90	2002.7
16.00	2004.7
25.00	2006.3
36.00	2007.2
49.00	2008.4
64.00	2009.3
81.00	2010.3
100.00	2011.2
144.00	2012.5
185.42	2013.5



Tested By TM Date 9/30/04 Checked By GU Date 10/18/04

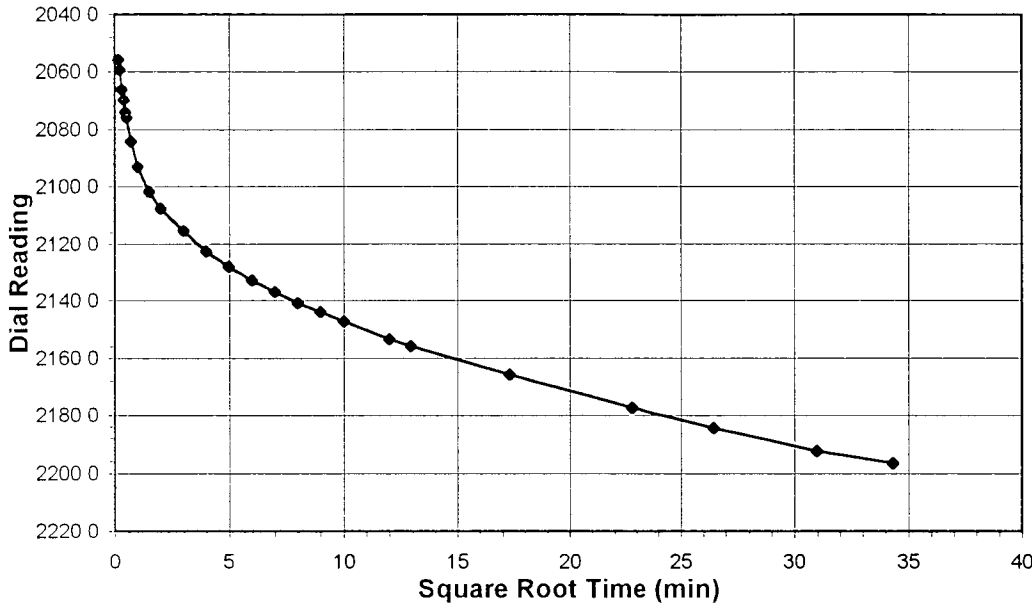


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

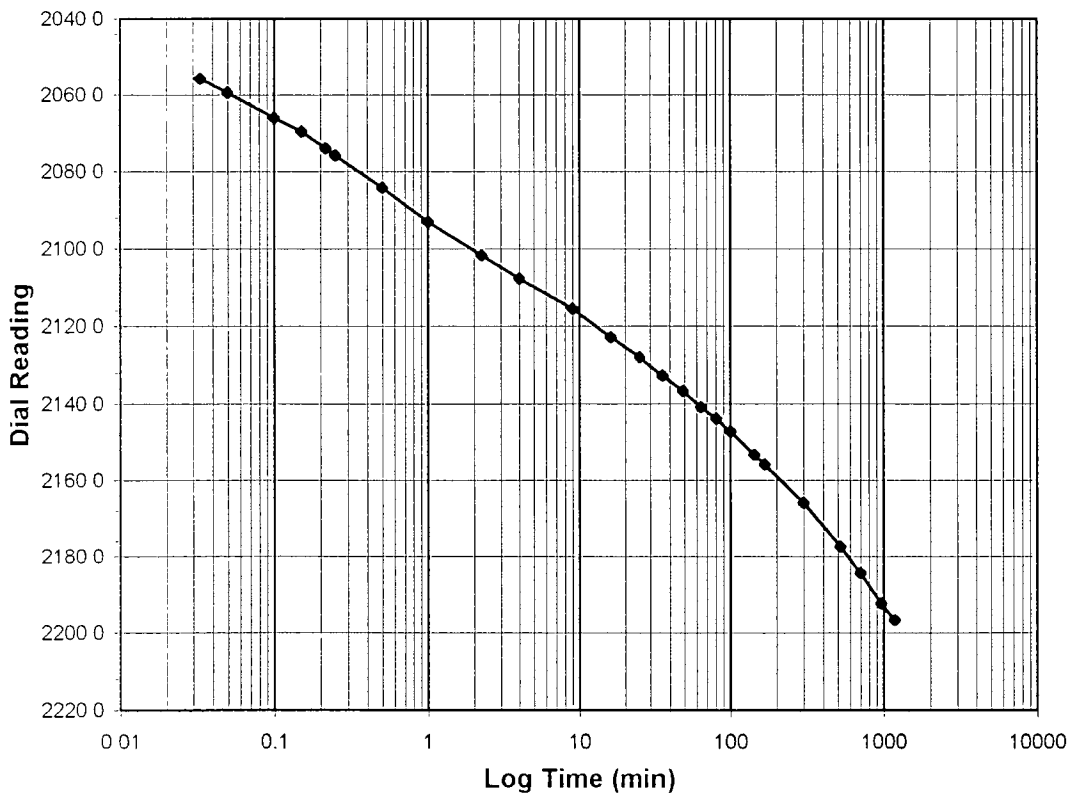
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-03	Sample No.	PPF-33 POST S/T
Lab ID	2004-221-03-07	Visual Description	BLACK STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



<b>Test Load</b> (tsf)	<b>2.0-4.0</b>
<b>Final Reading</b> (div)	<b>2196.6</b>
Consolidometer No.	3
1 Division (in)	0.0001
Start Date	9/30/04
Start Time	12:45:38

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>2013.5</b>
0.03	2055.7
0.05	2059.3
0.10	2066.0
0.15	2069.6
0.22	2073.9
0.25	2075.8
0.50	2084.2
1.00	2093.0
2.25	2101.6
4.00	2107.7
9.01	2115.5
16.00	2122.7
25.00	2127.9
36.00	2132.8
49.00	2136.8
64.00	2140.8
81.00	2144.0
100.00	2147.2
144.00	2153.4
167.32	2155.8
300.00	2165.8
520.00	2177.4
700.00	2184.4
960.00	2192.3
1179.18	2196.6



Tested By *TM* Date *9/30/04* Checked By *GU* Date *10/8/04*

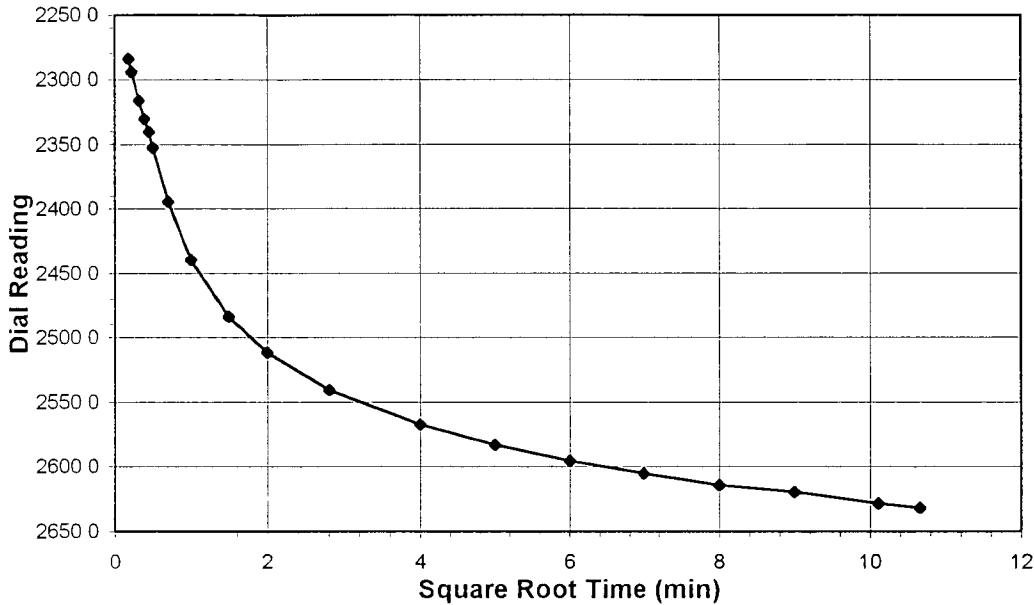


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

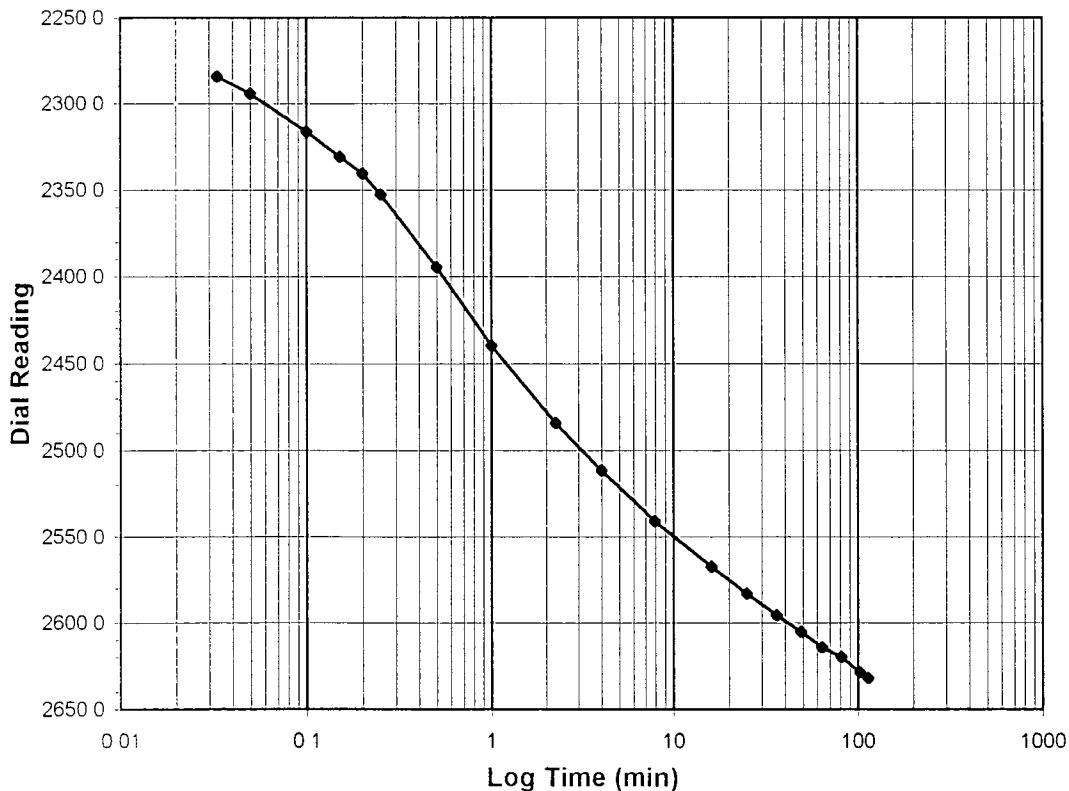
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PF3-33 POST S/T
Lab ID	2004-221-03-07	Visual Description	BLACK STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	4.0-8.0
Final Reading (div)	2631.9
Consolidometer No.	3
1 Division (in)	0.0001
Start Date	10/1/04
Start Time	8:31:18

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>2196.6</b>
0.03	2284.1
0.05	2294.0
0.10	2316.3
0.15	2330.7
0.20	2340.2
0.25	2352.6
0.50	2394.4
1.00	2439.8
2.25	2484.1
4.00	2511.8
7.90	2540.8
16.00	2567.7
25.00	2583.2
36.00	2595.5
49.00	2605.4
64.00	2614.1
81.00	2619.7
102.30	2628.5
113.67	2631.9



Tested By TM Date 10/1/04 Checked By GU Date 10/8/04

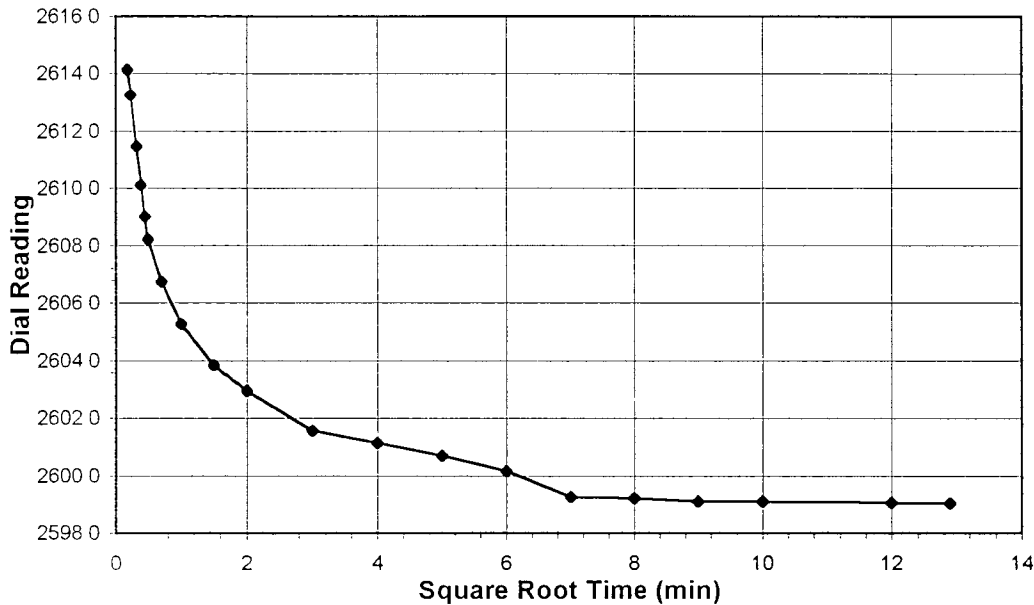


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

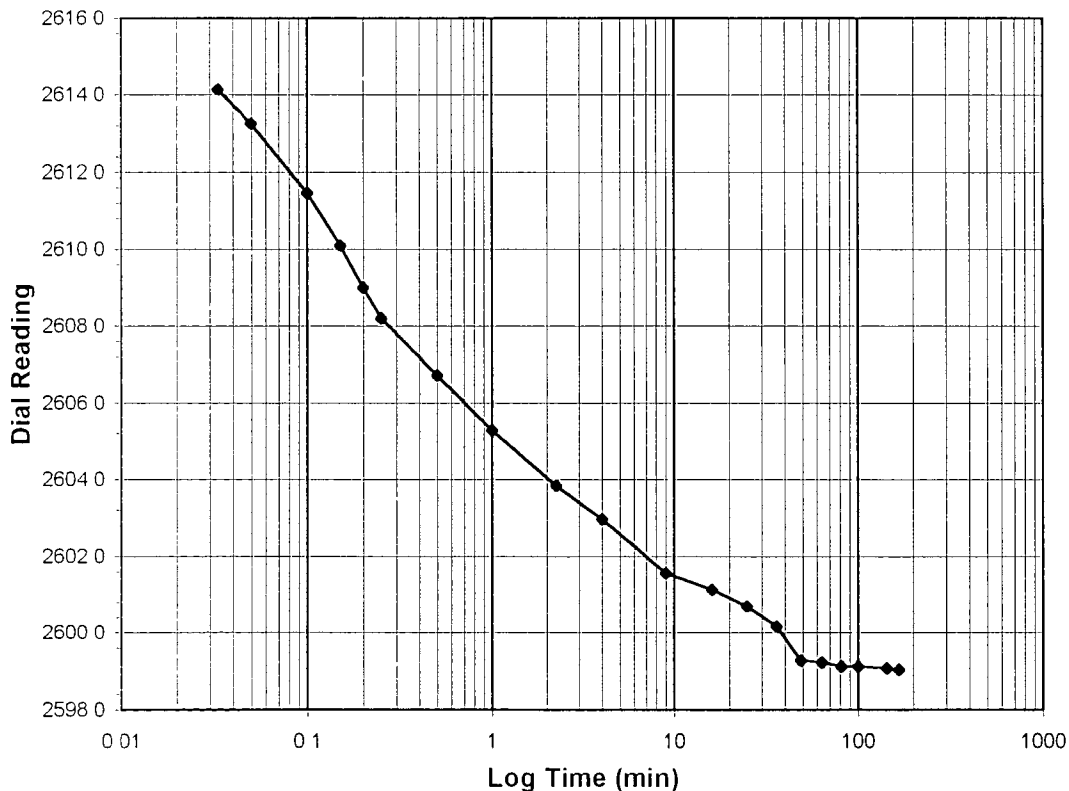
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PPF-33 POST S/T
Lab ID	2004-221-03-07	Visual Description	BLACK STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	8.0-4.0
Final Reading (div)	2599.0
Consolidometer No.	3
1 Division (in)	0.0001
Start Date	10/1/04
Start Time	10:26:32

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>2631.9</b>
0.03	2614.1
0.05	2613.3
0.10	2611.5
0.15	2610.1
0.20	2609.0
0.25	2608.2
0.50	2606.7
1.00	2605.3
2.25	2603.8
4.00	2603.0
9.02	2601.6
16.00	2601.1
25.00	2600.7
36.00	2600.2
49.00	2599.3
64.00	2599.2
81.00	2599.1
100.00	2599.1
144.00	2599.1
166.45	2599.0



Tested By TM Date 10/1/04 Checked By GU Date 10/8/04

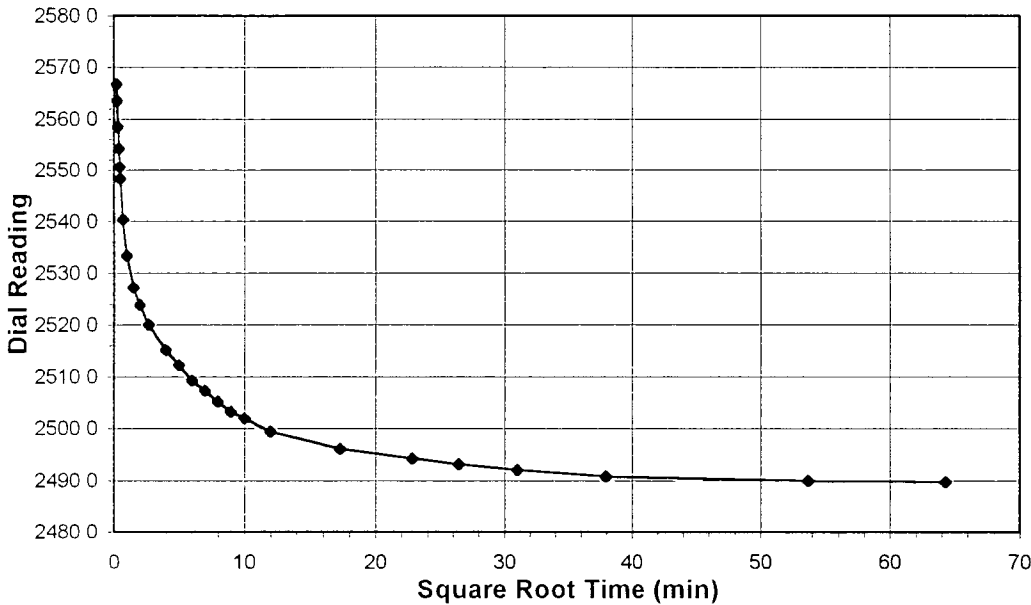


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

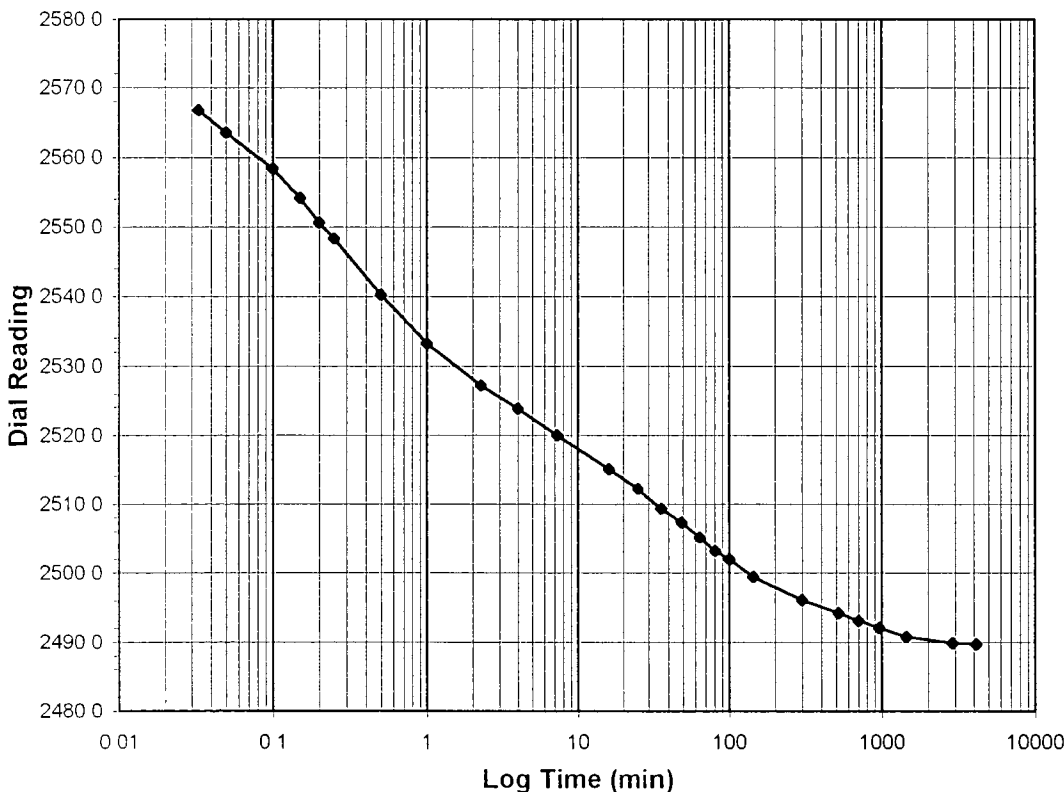
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-03	Sample No.	PFP-33 POST S/T
Lab ID	2004-221-03-07	Visual Description	BLACK STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	4.0-1.0
Final Reading (div)	2489.7
Consolidometer No.	3
1 Division (in)	0.0001
Start Date	10/1/04
Start Time	13:21:04

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>2599.0</b>
0.03	2566.7
0.05	2563.5
0.10	2558.5
0.15	2554.2
0.20	2550.7
0.25	2548.4
0.50	2540.3
1.00	2533.3
2.27	2527.2
4.00	2523.8
7.28	2520.0
16.00	2515.1
25.00	2512.2
36.02	2509.3
49.00	2507.3
64.00	2505.2
81.00	2503.3
100.02	2502.0
144.00	2499.4
300.00	2496.1
520.00	2494.3
700.00	2493.2
960.00	2492.1
1440.00	2490.9
2880.00	2489.9
4135.53	2489.7



Tested By *TM* Date *10/1/04* Checked By *GU* Date *10/8/04*

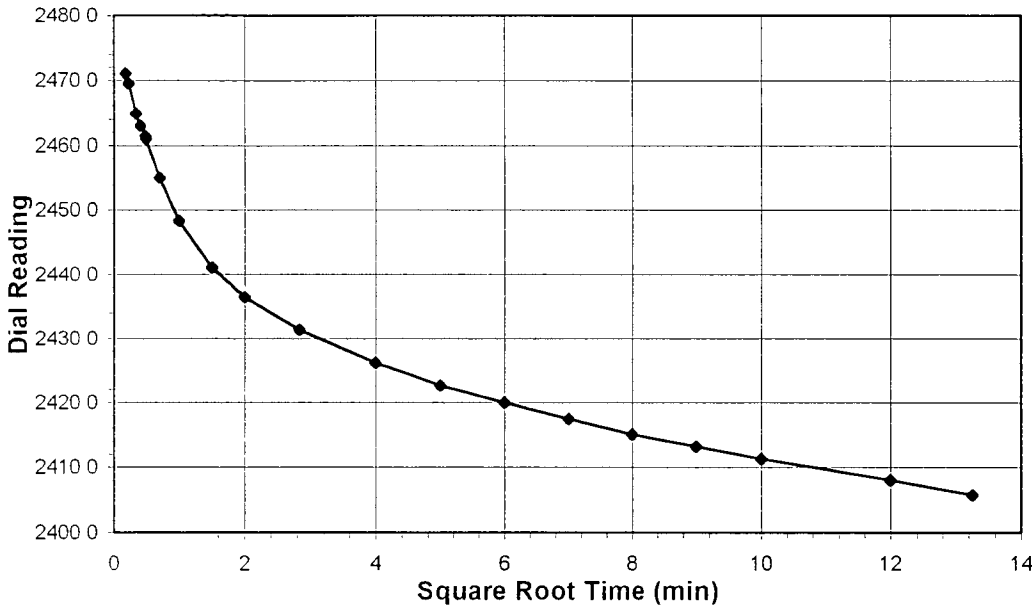


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

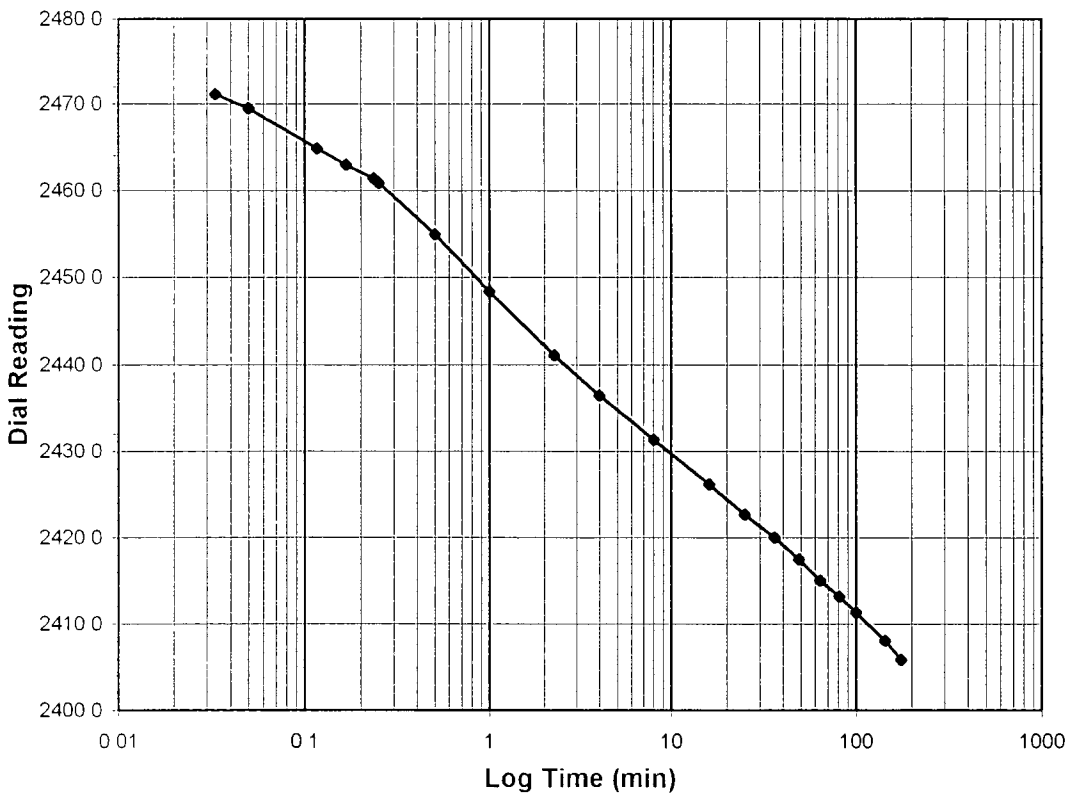
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-03	Sample No.	PPF-33 POST S/T
Lab ID	2004-221-03-07	Visual Description	BLACK STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	1.0-0.25
Final Reading (div)	2405.8
Consolidometer No.	3
1 Division (in)	0.0001
Start Date	10/4/04
Start Time	10:27:14

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>2489.7</b>
0.03	2471.1
0.05	2469.5
0.12	2464.8
0.17	2463.0
0.23	2461.4
0.25	2460.9
0.50	2455.0
1.00	2448.4
2.27	2441.1
4.00	2436.4
8.03	2431.3
16.00	2426.1
25.00	2422.6
36.00	2420.0
49.00	2417.4
64.00	2415.0
81.00	2413.2
100.00	2411.3
144.02	2408.1
175.62	2405.8



Tested By *TM* Date *10/4/04* Checked By *GU* Date *10/8/04*

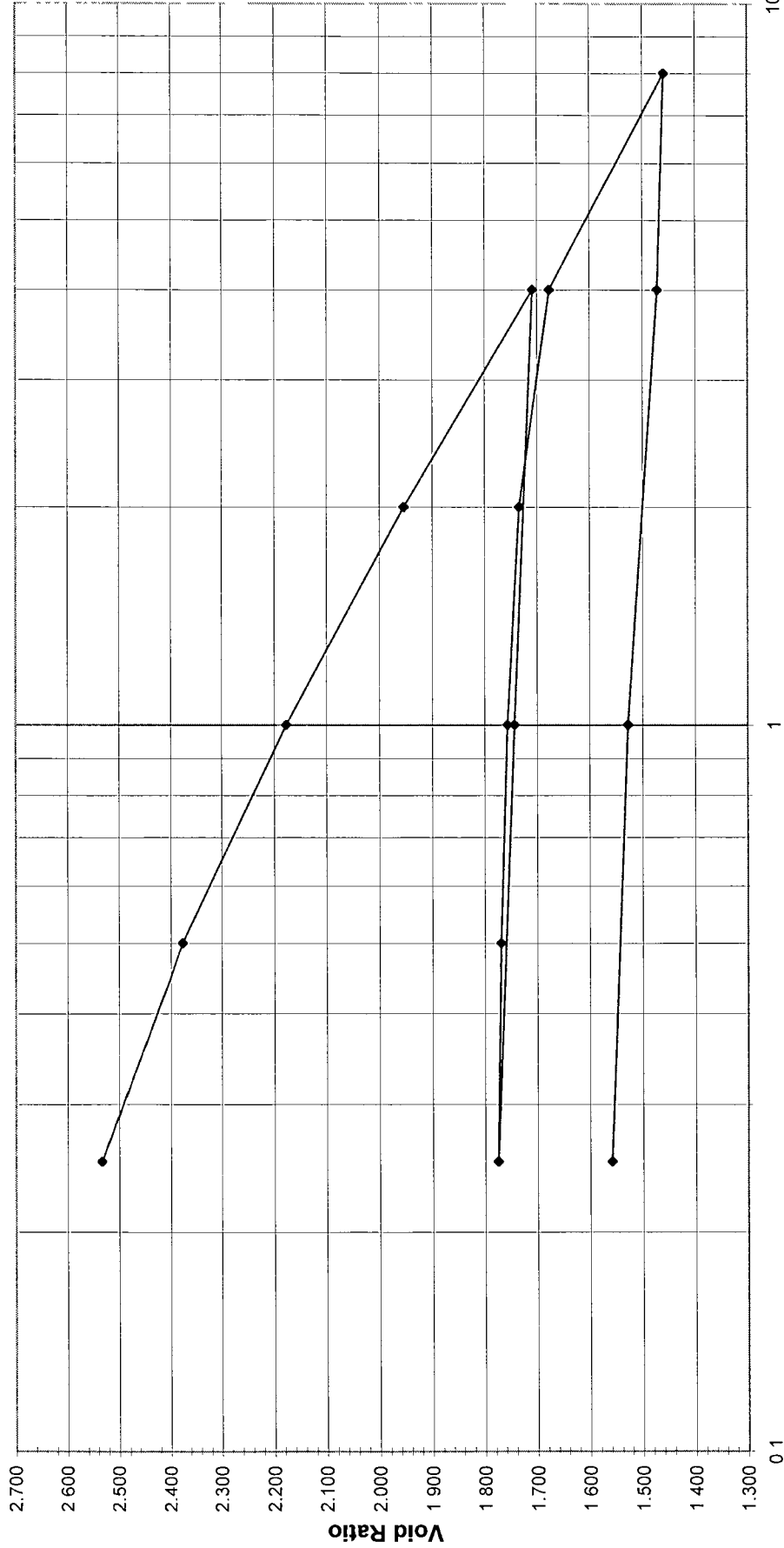


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 / AASHTO T216-03 (SOP-S24)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Reference	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PPF-35 POST S/T
Lab ID	2004-221-03-08	Visual Description	BROWN STABILIZED MATERIAL (RECEIVED LOOSE IN TUBE)

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Log P (tsf)

Tested By TM Date 9/27/04 Approved By DB Date 10/18/04



# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 / AASHTO T216-03 (SOP-S24)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Reference	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PPF-35 POST S/T
Lab ID	2004-221-03-08	Visual Description	BROWN STABILIZED MATERIAL (RECEIVED LOOSE IN TUBE)

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED

**Consolidometer No.** 2

**1 Division** = 0.0001 (in)

## Sample Properties

	Initial	Final
<i>Water Content</i>		
Tare Number	40	444
Wt. Tare & WS (gm)	174.77	192.38
Wt. Tare & DS (gm)	145.47	159.81
Wt. Water (gm)	29.30	32.57
Wt. Tare (gm)	101.54	99.87
Wt. DS (gm)	43.93	59.94
Water Content (%)	66.70	54.34

## Sample Parameters

Sample Diameter (in)	2.5	2.5
Sample Height (in)	1	0.710
Sample Volume (cc)	80.44	57.09
Wt. Wet Sample + Ring (gm)	245.19	237.75
Wt. of Ring (gm)	144.78	144.78
Wt. of Wet Sample (gm)	100.41	92.97
Wet Density (pcf)	77.89	101.61
Wet Density (g/cc)	1.25	1.63
Water Content (%)	66.70	54.34
Wt. of Dry Sample (gm)	60.24	60.24
Dry Density (pcf)	46.73	65.84
Dry Density (g/cc)	0.75	1.06
Void Ratio	2.6057	1.5590
Saturation (%)	69.11	94.10
Specific Gravity	2.70	Assumed

## Test Data Summary

Applied Pressure (tsf)	Final Dial Reading (div)	Machine Deflection (div)	Corrected Reading (div)	Height of Sample (mm)	Volume (cc)	Dry Density (g/cc)	Void Ratio
Seating	0	0	0	25.400	80.440	0.74882	2.60567
0.25	201.5	0.1	201.4	24.888	78.820	0.76421	2.53305
0.5	640.9	1.6	639.3	23.776	75.297	0.79996	2.37516
1	1197.2	8.6	1188.6	22.381	70.879	0.84983	2.17709
2	1831.4	22.8	1808.6	20.806	65.891	0.91416	1.95353
4	2526.6	37.5	2489.1	19.078	60.418	0.99698	1.70819
1	2409.4	17.4	2392.0	19.324	61.198	0.98426	1.74318
0.25	2305.0	1.8	2303.2	19.550	61.913	0.97289	1.77522
0.5	2323.6	4.0	2319.6	19.508	61.781	0.97497	1.76931
1	2367.9	12.3	2355.6	19.417	61.492	0.97957	1.75632
2	2441.2	24.3	2416.9	19.261	60.998	0.98749	1.73421
4	2615.4	38.2	2577.2	18.854	59.709	1.00881	1.67643
8	3233.0	53.2	3179.8	17.323	54.861	1.09795	1.45913
4	3192.2	46.4	3145.8	17.410	55.135	1.09250	1.47140
1	3014.0	24.6	2989.4	17.807	56.393	1.06812	1.52780
0.25	2906.2	3.4	2902.8	18.027	57.090	1.05509	1.55903

Tested By TM Date 9/27/04 Input Checked By DDA Date 10/18/04



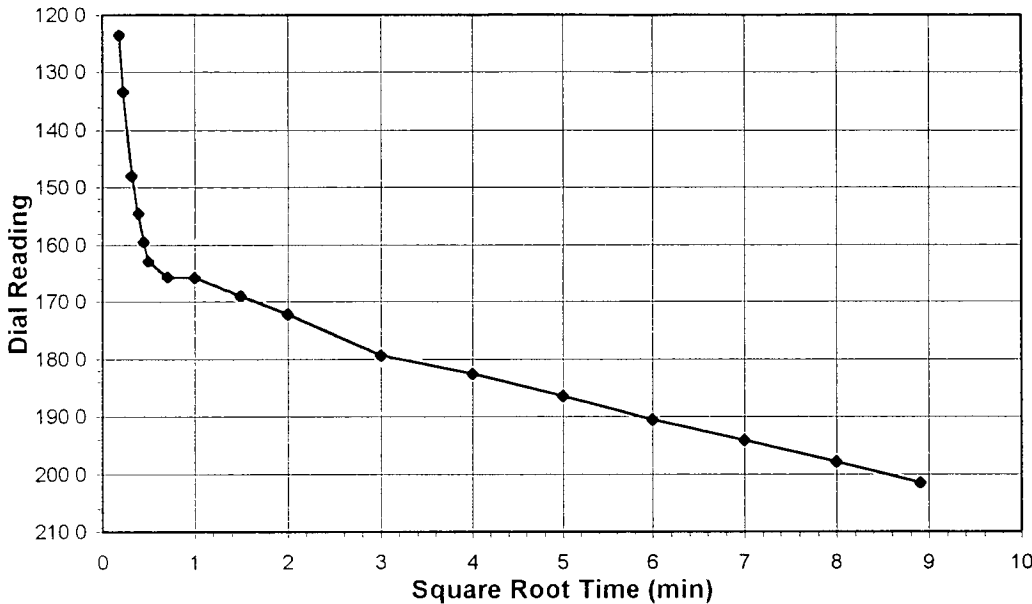


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-90 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-03	Sample No.	PFP-35 POST S/T
Lab ID	2004-221-03-08	Visual Description	BROWN STABILIZED MATERIAL (RECEIVED LOOSE IN TUBE)

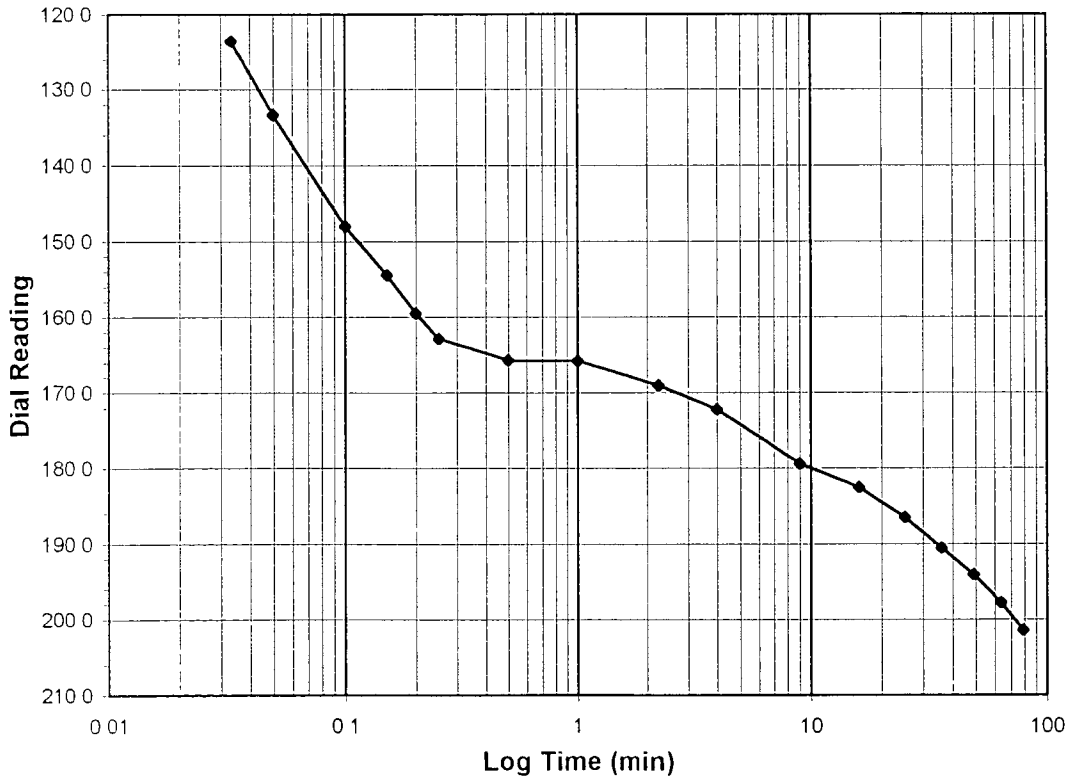
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0-0.25
Final Reading (div)	201.5
Consolidometer No.	2
1 Division (in)	0.0001

Start Date	9/27/04
Start Time	14:00:23

Elapsed Time (min)	Dial Reading (div)
Initial	0.0
0.03	123.6
0.05	133.4
0.10	148.0
0.15	154.5
0.20	159.5
0.25	162.9
0.50	165.7
1.00	165.8
2.25	169.0
4.00	172.2
9.02	179.4
16.00	182.6
25.00	186.5
36.00	190.5
49.00	194.1
64.00	197.8
79.40	201.5



Tested By TM Date 9/27/04 Checked By DDA Date 10/18/04



# ONE DIMENSIONAL CONSOLIDATION

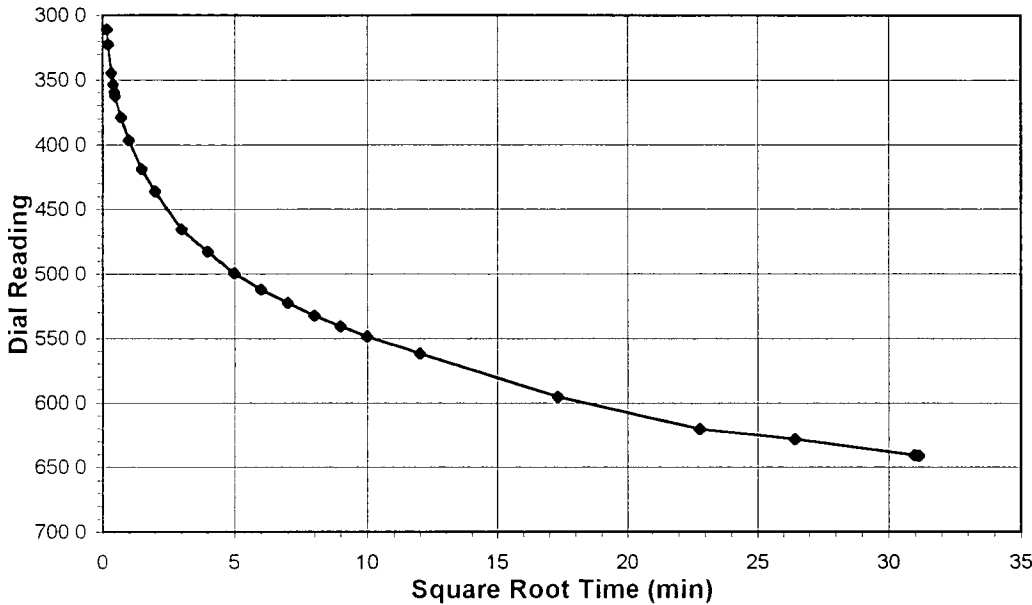
ASTM D 2435-90 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE  
 Client Project: GEHR TREATABILITY 204.302  
 Project No.: 2004-221-03  
 Lab ID: 2004-221-03-08

Boring No.:  
 Depth (ft):  
 Sample No.:  
 Visual Description:

NA  
 NA  
 PFP-35 POST S/T  
 BROWN STABILIZED MATERIAL  
 (RECEIVED LOOSE IN TUBE)

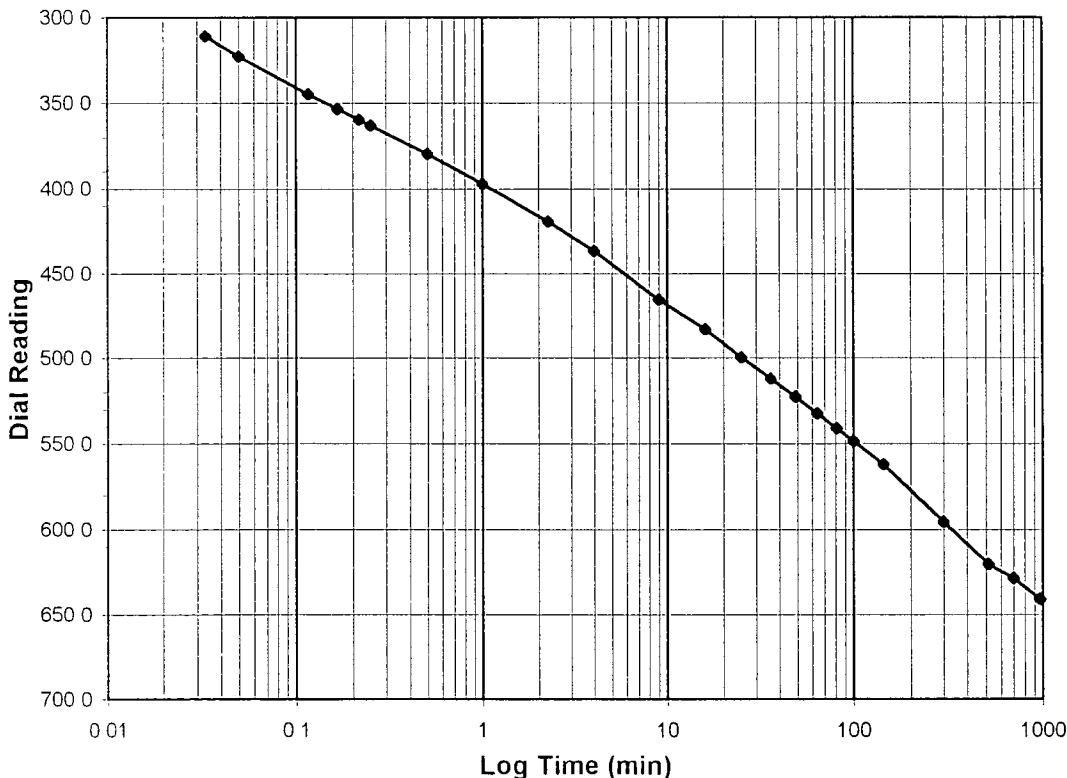
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf): 0.25-0.5  
 Final Reading (div): 640.9  
 Consolidometer No.: 2  
 1 Division (in): 0.0001

Start Date: 9/27/04  
 Start Time: 15:26:14

Elapsed Time (min)	Dial Reading (div)
Initial	201.5
0.03	310.8
0.05	322.4
0.12	344.6
0.17	353.3
0.22	359.3
0.25	362.9
0.50	379.3
1.00	396.8
2.25	419.0
4.00	436.3
9.03	465.6
16.00	482.9
25.00	499.6
36.00	512.2
49.00	522.5
64.00	532.2
81.00	540.9
100.00	548.5
144.02	562.0
300.00	595.5
520.02	620.4
700.00	628.5
960.00	640.7
970.53	640.9



Tested By: TM Date: 9/27/04 Checked By: DDA Date: 10/18/04

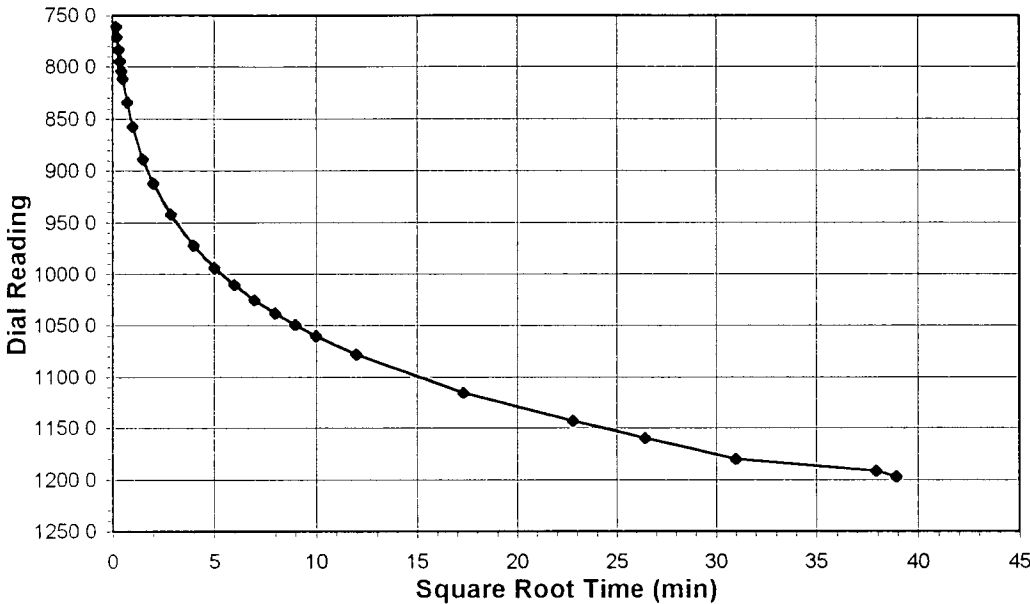


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-90 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-03	Sample No.	PPF-35 POST S/T
Lab ID	2004-221-03-08	Visual Description	BROWN STABILIZED MATERIAL (RECEIVED LOOSE IN TUBE)

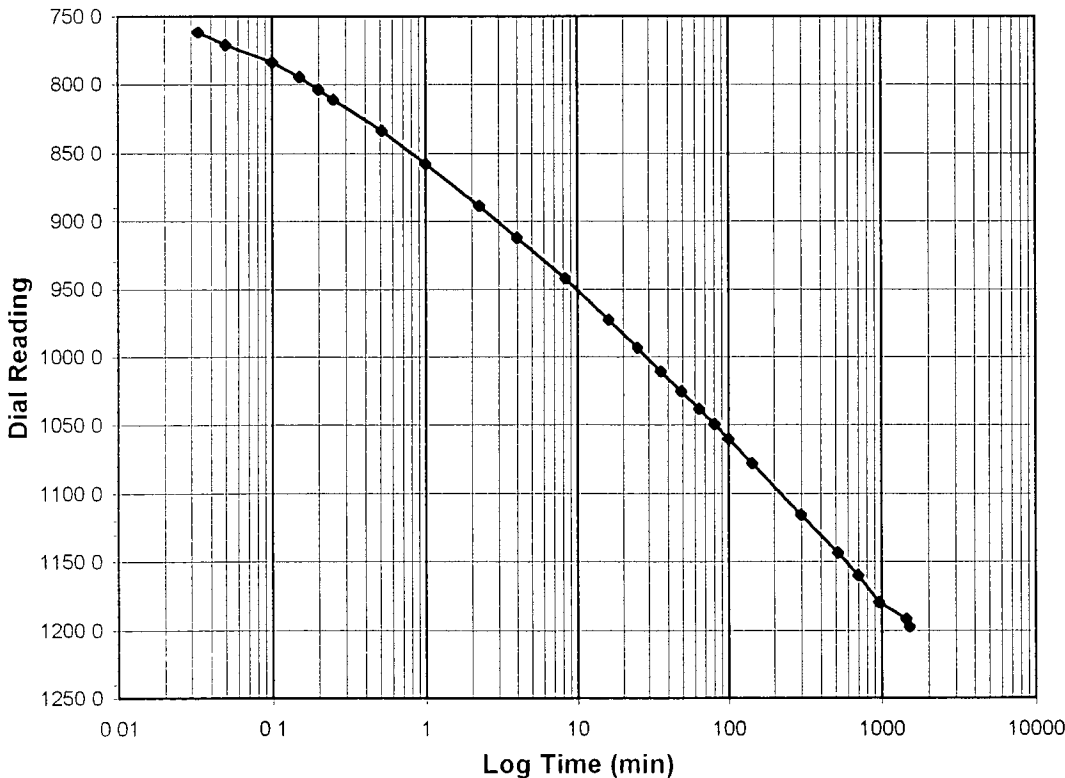
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 0.5-1.0  
 Final Reading (div) 1197.2  
 Consolidometer No. 2  
 1 Division (in) 0.0001

Start Date 9/28/04  
 Start Time 8:07:43

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>640.9</b>
0.03	761.1
0.05	770.7
0.10	783.3
0.15	794.0
0.20	803.8
0.25	811.2
0.52	833.9
1.00	857.7
2.25	888.8
4.00	911.9
8.28	942.3
16.00	972.6
25.00	993.6
36.00	1010.7
49.00	1025.4
64.00	1037.8
81.00	1049.4
100.00	1060.0
144.00	1078.2
300.00	1115.7
520.00	1143.4
700.00	1159.9
960.00	1179.7
1440.00	1191.6
1515.28	1197.2



Tested By TM Date 9/28/04 Checked By DDA Date 10/18/04

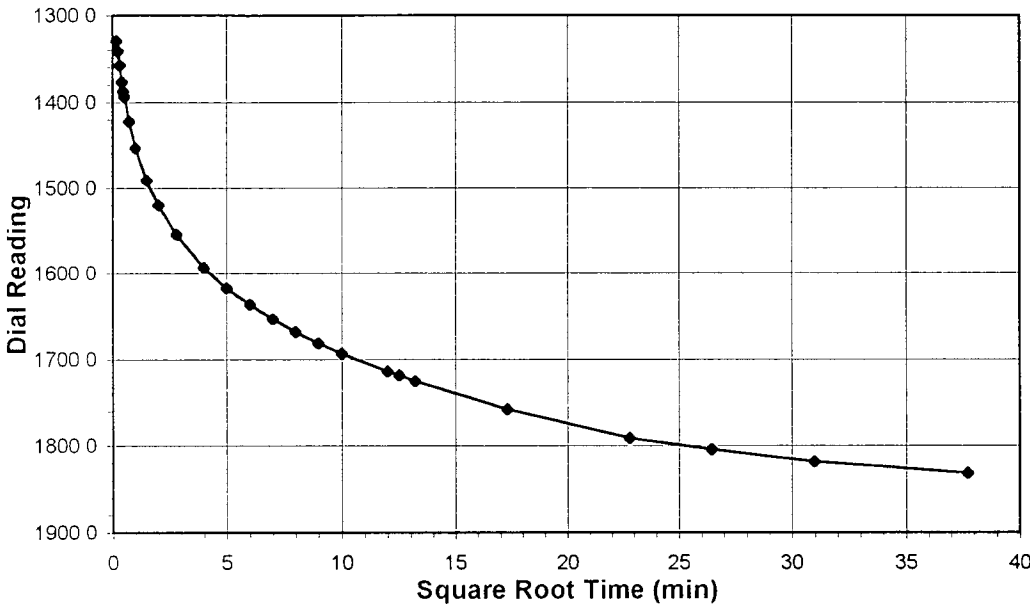


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-90 (SOP-S24A)

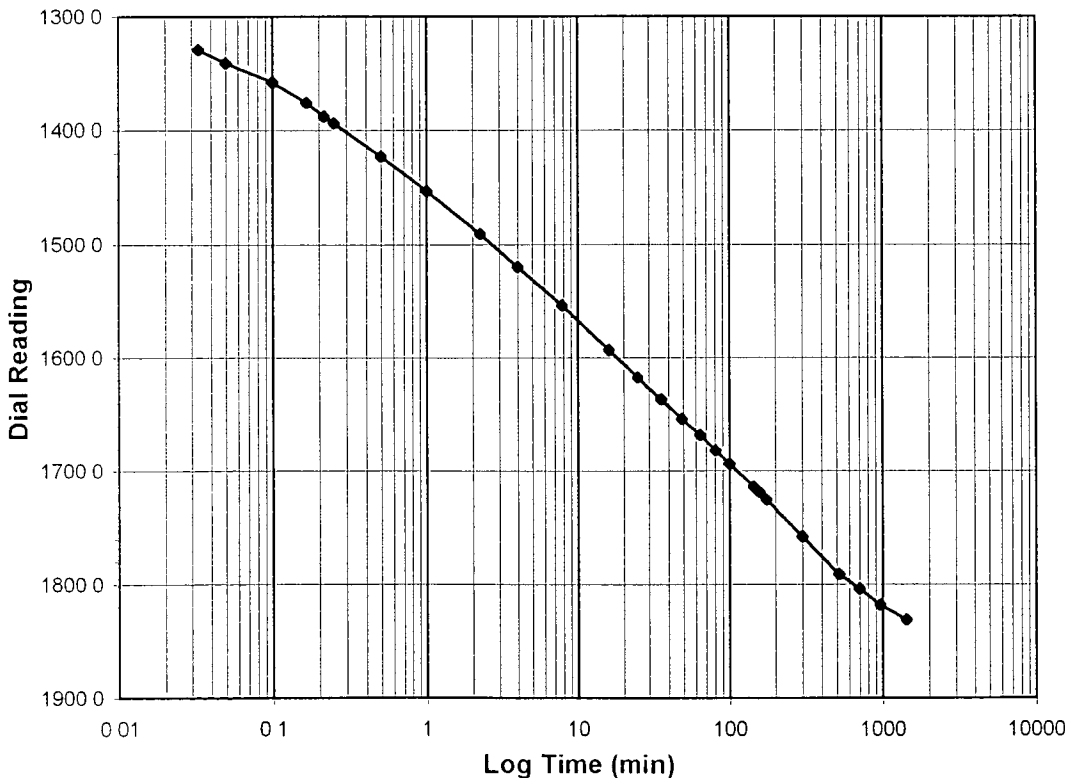
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-03	Sample No.	PPF-35 POST S/T
Lab ID	2004-221-03-08	Visual Description	BROWN STABILIZED MATERIAL (RECEIVED LOOSE IN TUBE)

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	1.0-2.0
Final Reading (div)	1831.4
Consolidometer No.	2
1 Division (in)	0.0001
Start Date	9/29/04
Start Time	9:36:27

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>1197.2</b>
0.03	1329.3
0.05	1341.2
0.10	1357.9
0.17	1376.4
0.22	1387.7
0.25	1393.7
0.50	1422.5
1.00	1453.0
2.25	1490.6
4.00	1519.7
7.88	1554.0
16.00	1593.0
25.00	1617.4
36.00	1636.9
49.00	1653.9
64.00	1668.5
81.00	1681.8
100.00	1693.5
144.00	1714.1
155.95	1718.6
174.75	1725.1
300.00	1757.7
520.00	1790.9
700.00	1804.3
960.00	1818.0
1423.73	1831.4



Tested By *TM* Date *9/29/04* Checked By *DDA* Date *10/18/04*

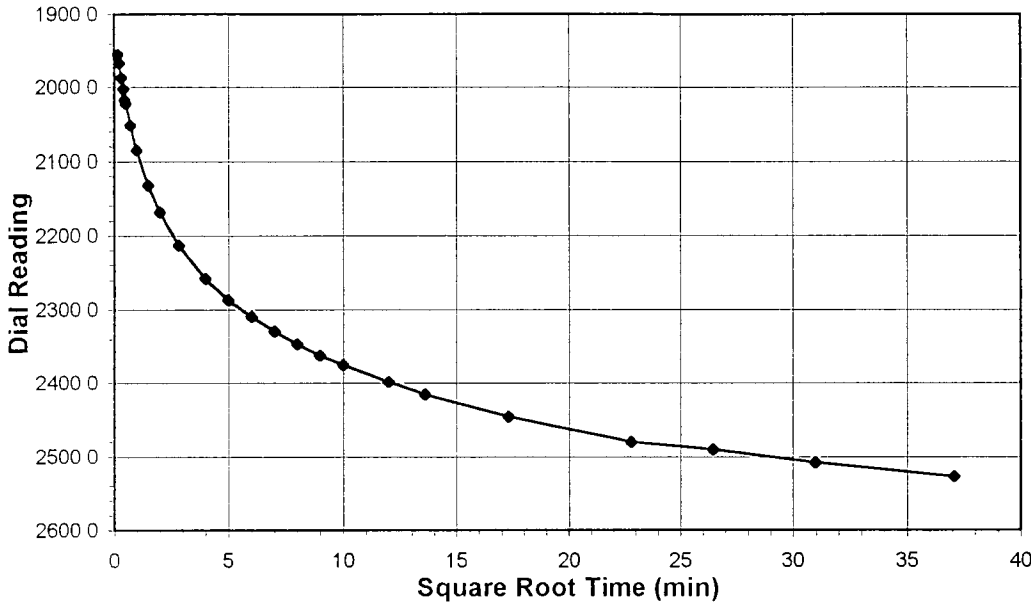


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-90 (SOP-S24A)

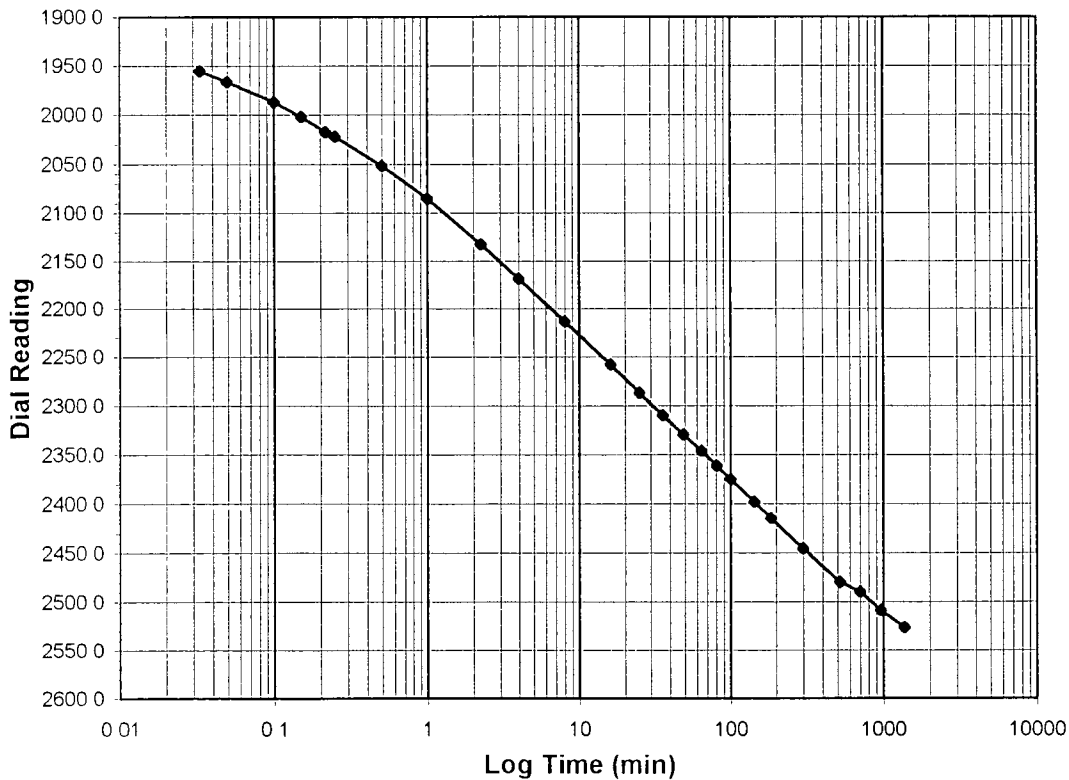
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-03	Sample No.	PPF-35 POST S/T
Lab ID	2004-221-03-08	Visual Description	BROWN STABILIZED MATERIAL (RECEIVED LOOSE IN TUBE)

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	2.0-4.0
Final Reading (div)	2526.6
Consolidometer No.	2
1 Division (in)	0.0001
Start Date	9/30/04
Start Time	9:28:44

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>1831.4</b>
0.03	1955.3
0.05	1966.8
0.10	1986.6
0.15	2002.0
0.22	2017.2
0.25	2022.0
0.50	2051.6
1.00	2085.1
2.25	2132.3
4.00	2168.4
7.98	2213.2
16.00	2258.1
25.00	2286.6
36.00	2309.8
49.00	2329.4
64.00	2346.3
81.00	2361.4
100.00	2374.8
144.00	2398.3
185.50	2414.7
300.00	2445.1
520.00	2479.5
700.00	2489.7
960.00	2508.3
1374.58	2526.6



Tested By *TM* Date *9/30/04* Checked By *DDA* Date *10/18/04*

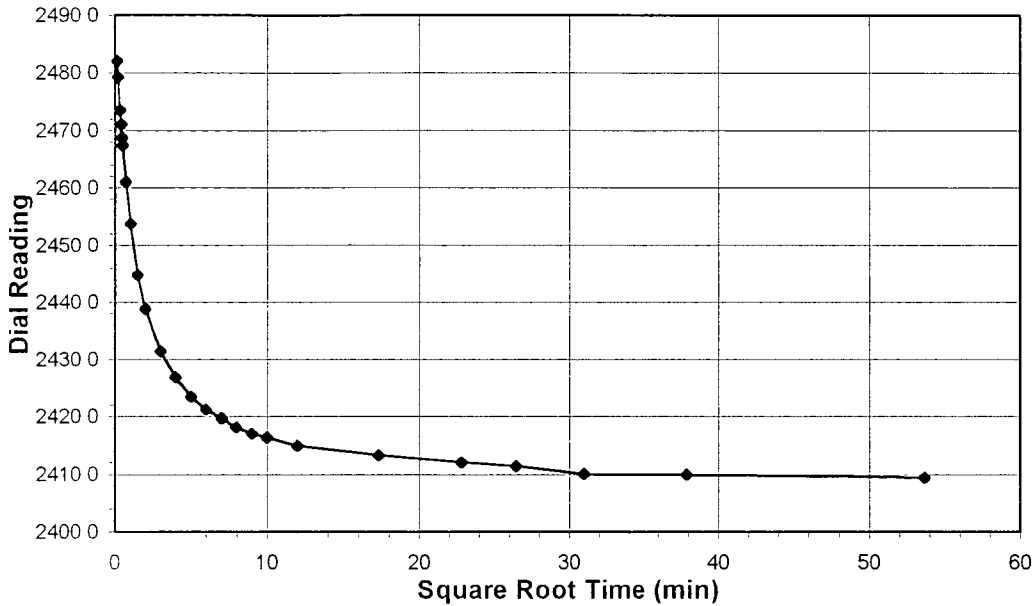


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-90 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PFP-35 POST S/T
Lab ID	2004-221-03-08	Visual Description	BROWN STABILIZED MATERIAL (RECEIVED LOOSE IN TUBE)

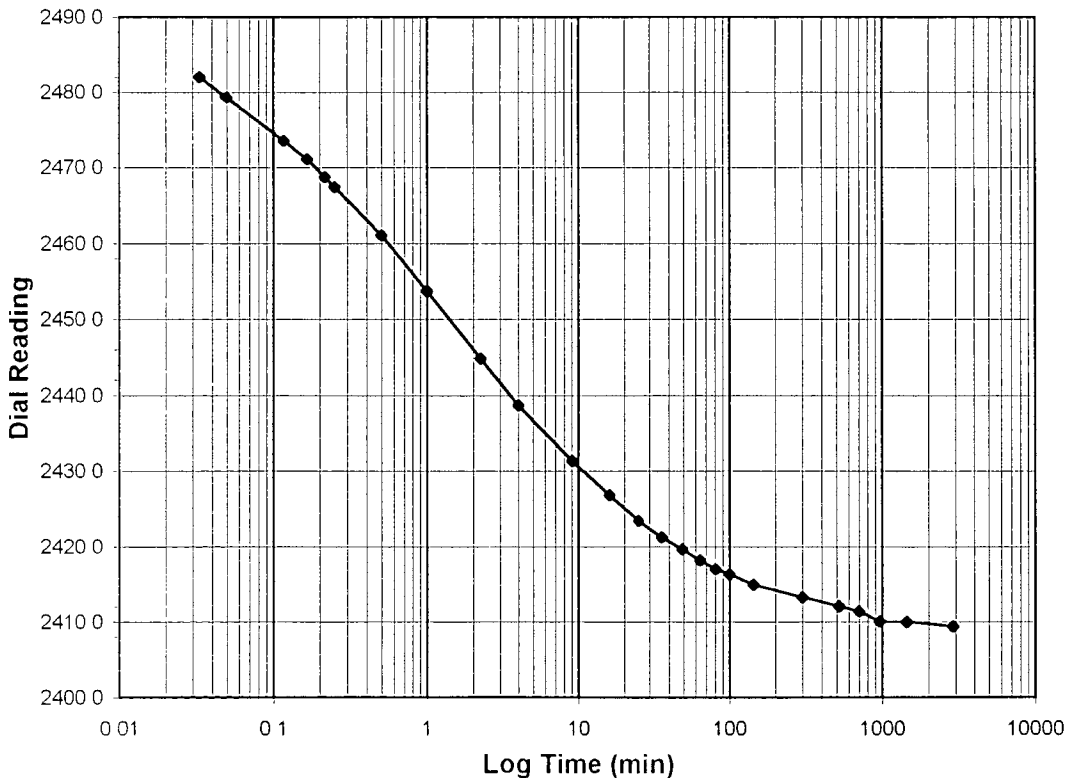
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	4.0-1.0
Final Reading (div)	2409.4
Consolidometer No.	2
1 Division (in)	0.0001

Start Date	10/1/04
Start Time	14:20:42

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>2526.6</b>
0.03	2482.0
0.05	2479.3
0.12	2473.6
0.17	2471.1
0.22	2468.7
0.25	2467.4
0.50	2461.0
1.00	2453.7
2.25	2444.8
4.00	2438.8
9.03	2431.4
16.00	2426.9
25.00	2423.4
36.00	2421.2
49.00	2419.7
64.00	2418.2
81.00	2417.0
100.00	2416.3
144.00	2415.0
300.00	2413.3
520.00	2412.1
700.00	2411.4
960.00	2410.1
1440.00	2410.0
2880.00	2409.4



Tested By *TM* Date *10/1/04* Checked By *DJA* Date *10/18/04*

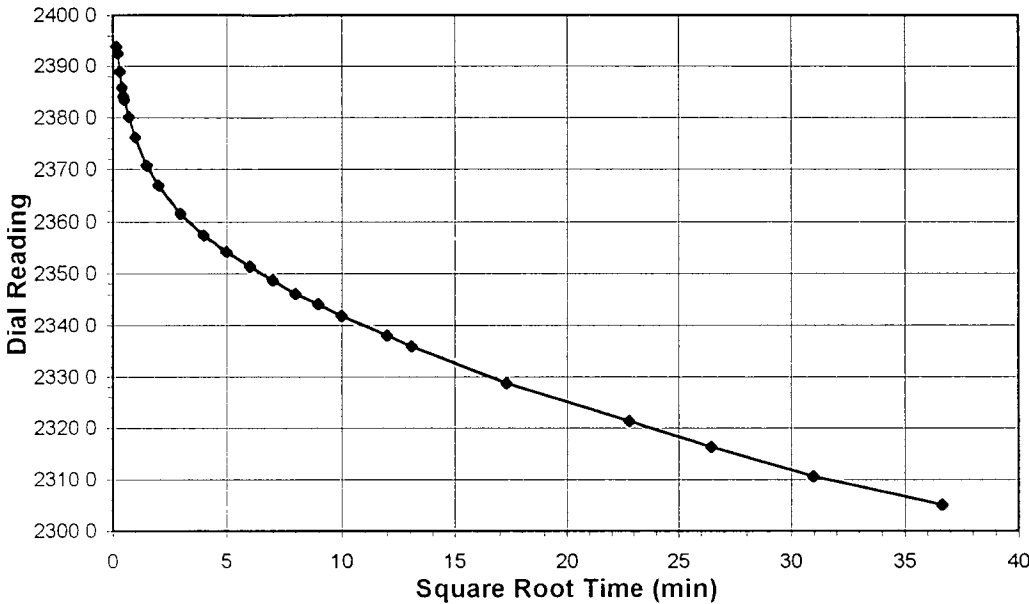


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-90 (SOP-S24A)

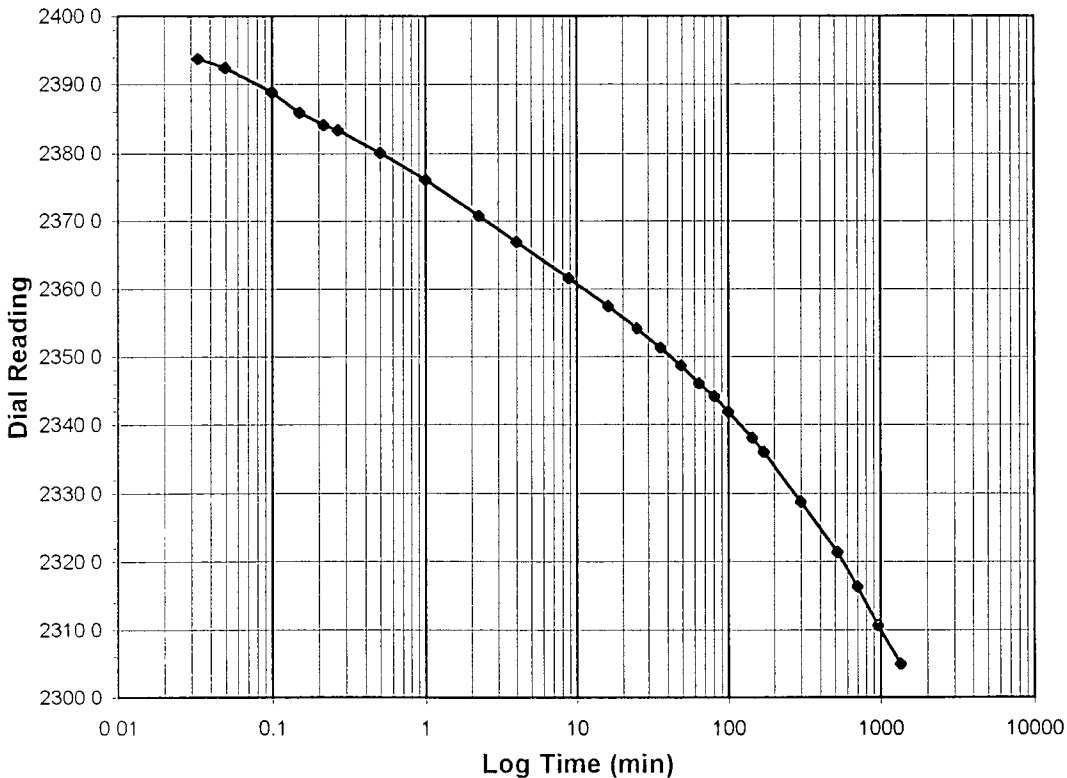
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PPF-35 POST S/T
Lab ID	2004-221-03-08	Visual Description	BROWN STABILIZED MATERIAL (RECEIVED LOOSE IN TUBE)

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	1.0-0.25
Final Reading (div)	2305.0
Consolidometer No.	2
1 Division (in)	0.0001
Start Date	10/4/04
Start Time	10:31:56

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>2409.4</b>
0.03	2393.8
0.05	2392.5
0.10	2388.9
0.15	2385.9
0.22	2384.1
0.27	2383.4
0.50	2380.1
1.00	2376.1
2.25	2370.8
4.00	2366.9
8.85	2361.5
16.00	2357.4
25.00	2354.1
36.00	2351.3
49.00	2348.7
64.00	2346.1
81.00	2344.1
100.00	2341.9
144.00	2338.1
170.92	2336.0
300.00	2328.8
520.00	2321.4
700.00	2316.3
960.00	2310.6
1343.75	2305.0



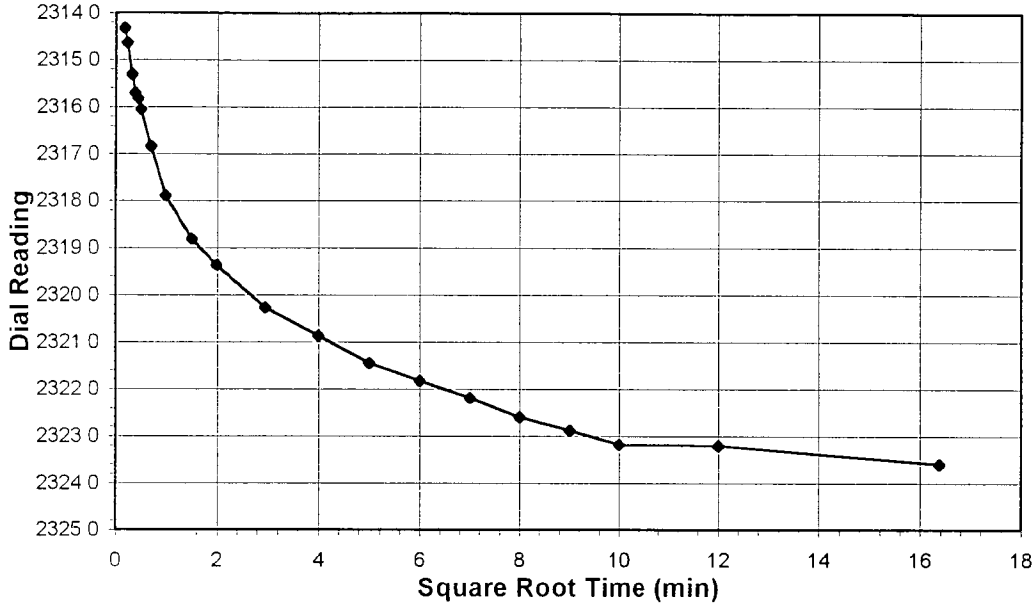
Tested By *TM* Date *10/4/04* Checked By *DDA* Date *10/18/04*

**ONE DIMENSIONAL CONSOLIDATION**  
ASTM D 2435-90 (SOP-S24A)



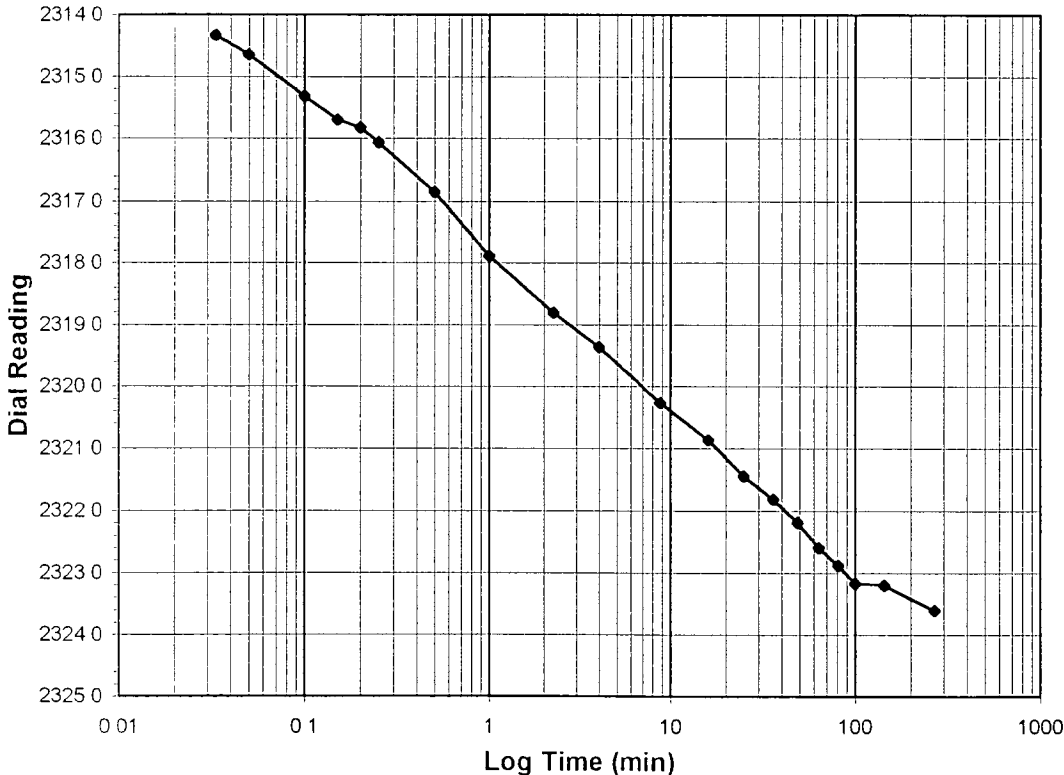
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PPF-35 POST S/T
Lab ID	2004-221-03-08	Visual Description	BROWN STABILIZED MATERIAL (RECEIVED LOOSE IN TUBE)

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.25-0.5
Final Reading (div)	2323.6
Consolidometer No.	2
1 Division (in)	0.0001
Start Date	10/5/04
Start Time	8:59:24

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>2305.0</b>
0.03	2314.3
0.05	2314.6
0.10	2315.3
0.15	2315.7
0.20	2315.8
0.25	2316.1
0.50	2316.8
1.00	2317.9
2.25	2318.8
4.00	2319.4
8.78	2320.3
16.00	2320.9
25.00	2321.4
36.00	2321.8
49.00	2322.2
64.00	2322.6
81.00	2322.9
100.00	2323.2
144.00	2323.2
268.48	2323.6



Tested By TM Date 10/5/04 Checked By DJA Date 10/13/04



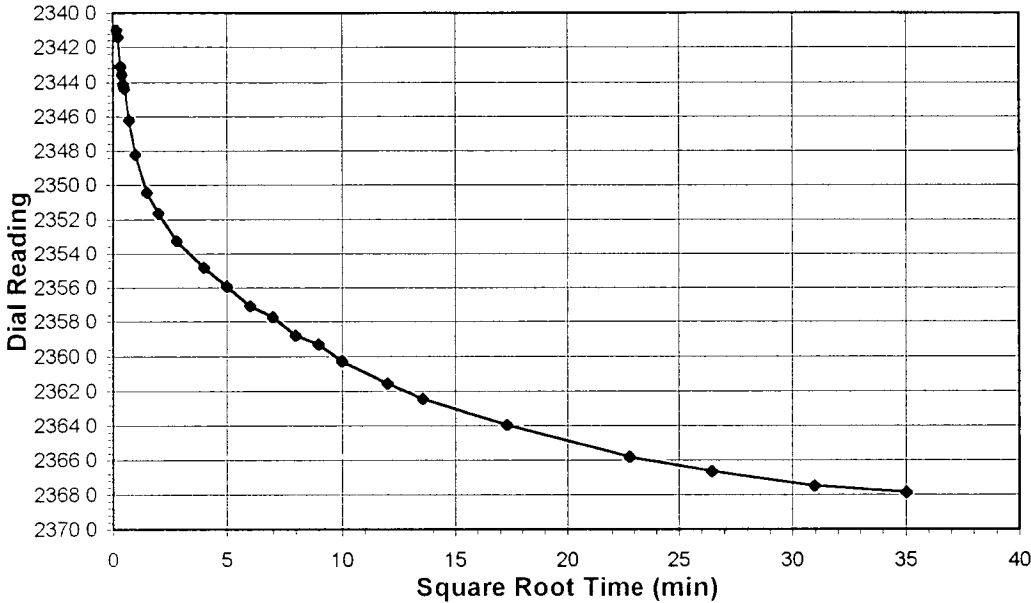


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-90 (SOP-S24A)

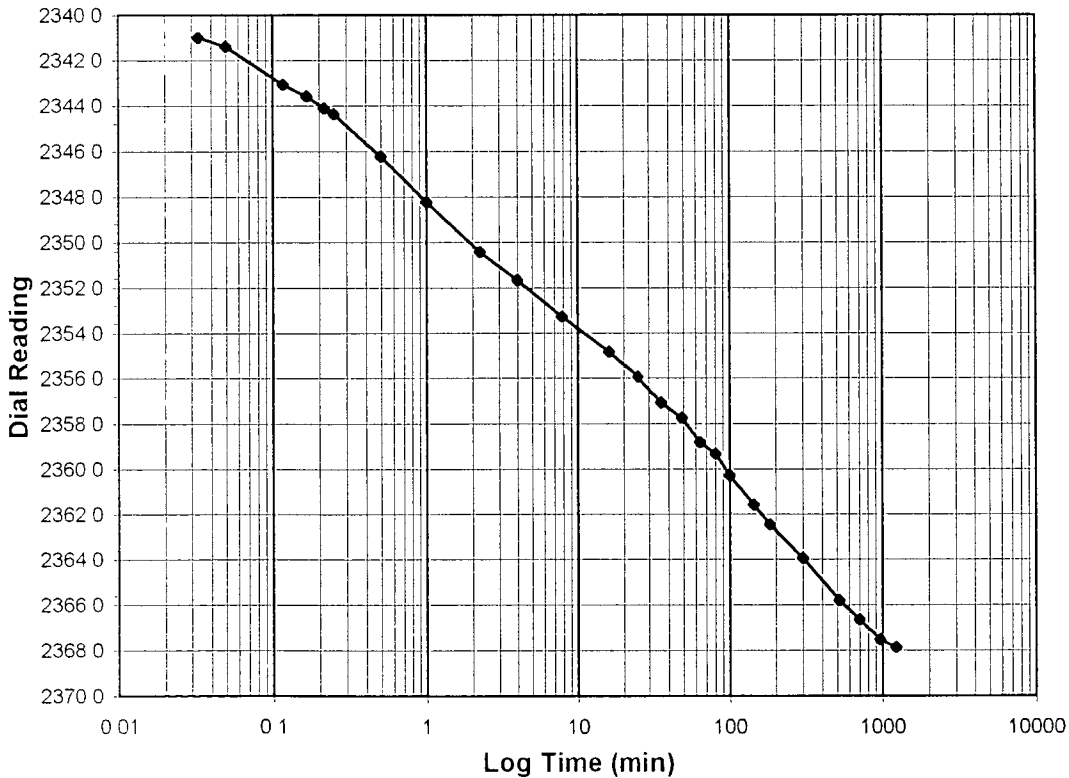
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PFP-35 POST S/T
Lab ID	2004-221-03-08	Visual Description	BROWN STABILIZED MATERIAL (RECEIVED LOOSE IN TUBE)

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.5-1.0
Final Reading (div)	2367.9
Consolidometer No.	2
1 Division (in)	0.0001
Start Date	10/5/04
Start Time	13:30:52

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>2323.6</b>
0.03	2341.0
0.05	2341.4
0.12	2343.1
0.17	2343.6
0.22	2344.1
0.25	2344.4
0.50	2346.2
1.00	2348.2
2.25	2350.4
4.00	2351.7
7.85	2353.3
16.00	2354.8
25.00	2355.9
36.00	2357.1
49.00	2357.7
64.00	2358.8
81.00	2359.3
100.02	2360.3
144.00	2361.6
183.67	2362.5
300.00	2364.0
520.00	2365.8
700.00	2366.7
960.00	2367.5
1227.38	2367.9



Tested By *TM* Date *10/5/04* Checked By *DDA* Date *10/19/04*

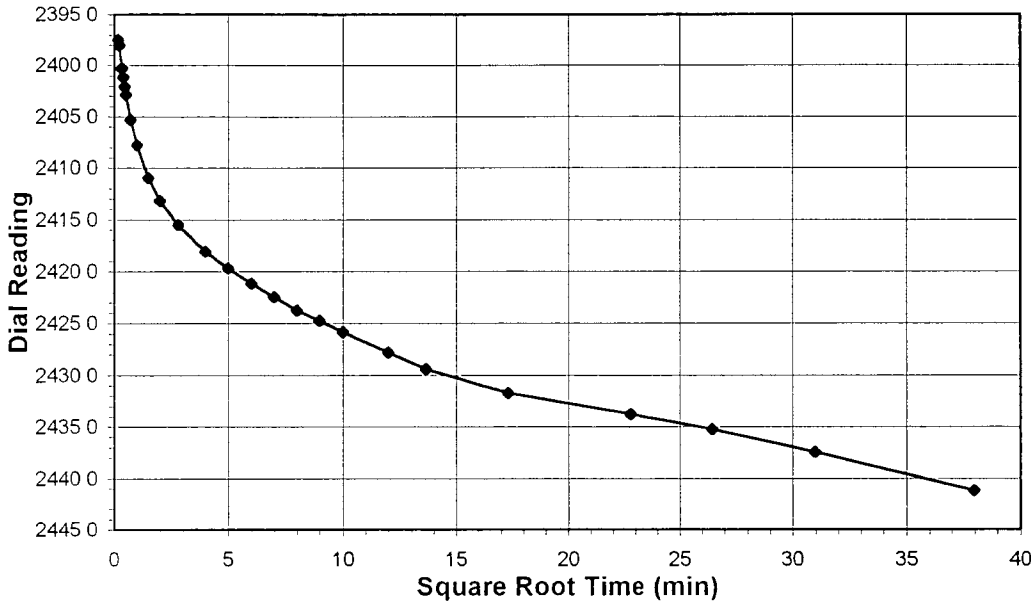


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-90 (SOP-S24A)

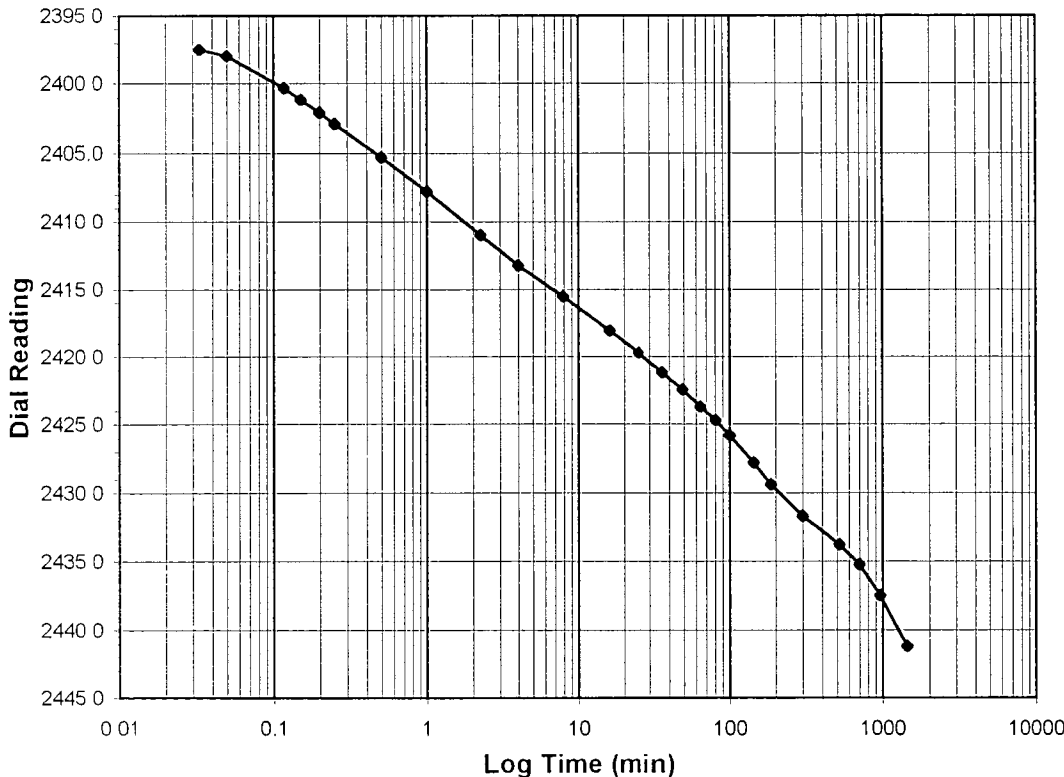
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PPF-35 POST S/T
Lab ID	2004-221-03-08	Visual Description	BROWN STABILIZED MATERIAL (RECEIVED LOOSE IN TUBE)

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	1.0-2.0
Final Reading (div)	2441.2
Consolidometer No.	2
1 Division (in)	0.0001
Start Date	10/6/04
Start Time	10:01:26

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>2367.9</b>
0.03	2397.5
0.05	2398.0
0.12	2400.3
0.15	2401.1
0.20	2402.1
0.25	2402.9
0.50	2405.3
1.00	2407.8
2.25	2411.0
4.00	2413.2
7.95	2415.5
16.00	2418.1
25.00	2419.7
36.00	2421.2
49.00	2422.4
64.00	2423.7
81.00	2424.7
100.00	2425.8
144.00	2427.8
187.02	2429.4
300.00	2431.7
520.02	2433.8
700.00	2435.2
960.00	2437.5
1440.00	2441.2



Tested By *TM* Date *10/6/04* Checked By *DDA* Date *10/18/04*

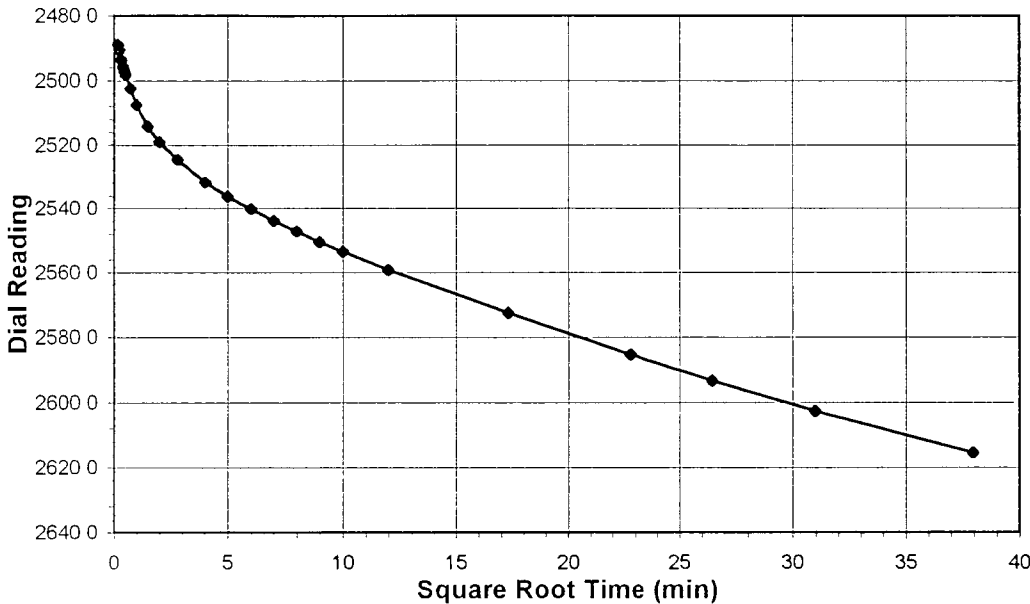


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-90 (SOP-S24A)

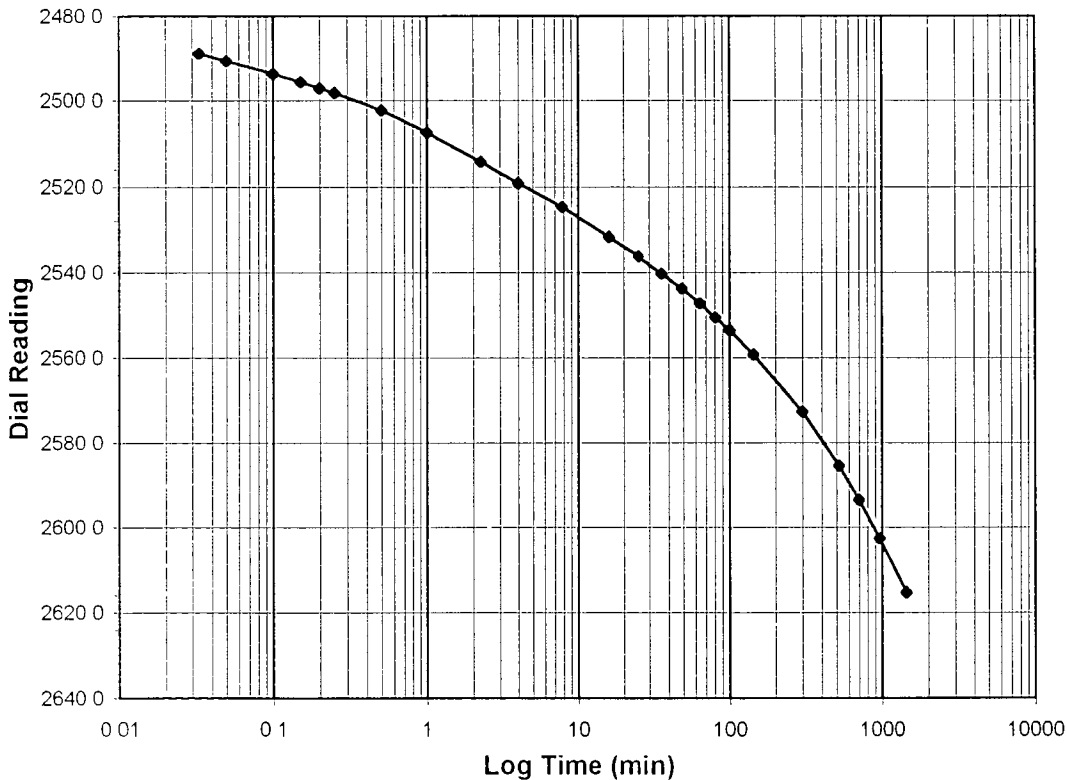
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PFP-35 POST S/T
Lab ID	2004-221-03-08	Visual Description	BROWN STABILIZED MATERIAL (RECEIVED LOOSE IN TUBE)

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	2.0-4.0
Final Reading (div)	2615.4
Consolidometer No.	2
1 Division (in)	0.0001
Start Date	10/7/04
Start Time	10:10:13

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>2441.2</b>
0.03	2488.9
0.05	2490.7
0.10	2493.7
0.15	2495.7
0.20	2497.1
0.25	2498.2
0.50	2502.3
1.00	2507.4
2.25	2514.2
4.00	2519.1
7.88	2524.7
16.00	2531.7
25.00	2536.3
36.00	2540.2
49.00	2543.8
64.00	2547.3
81.00	2550.5
100.00	2553.5
144.02	2559.2
300.00	2572.6
520.00	2585.4
700.02	2593.5
960.00	2602.7
1440.00	2615.4



Tested By *TM* Date *10/7/04* Checked By *DDA* Date *10/18/04*

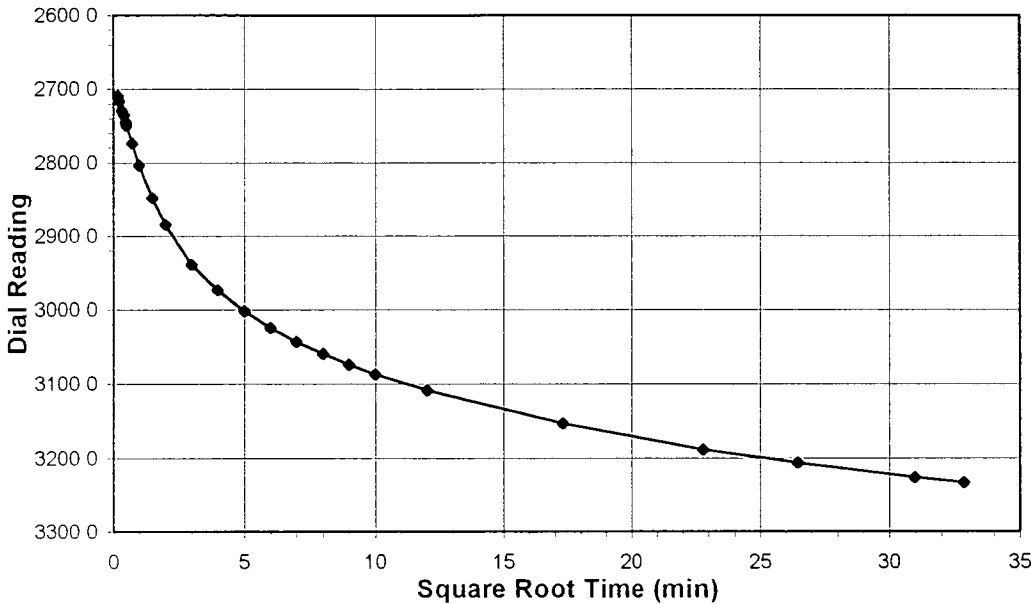


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-90 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PPF-35 POST S/T
Lab ID	2004-221-03-08	Visual Description	BROWN STABILIZED MATERIAL (RECEIVED LOOSE IN TUBE)

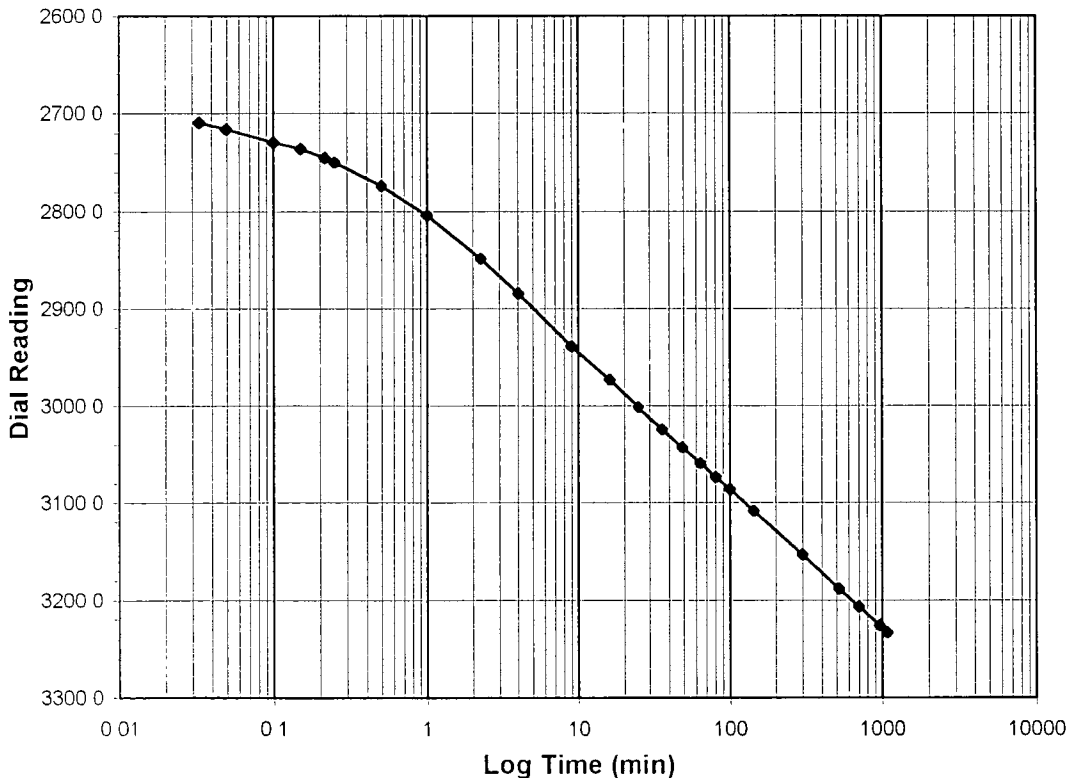
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	4.0-8.0
Final Reading (div)	3233.0
Consolidometer No.	2
1 Division (in)	0.0001

Start Date	10/8/04
Start Time	10:16:20

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>2615.4</b>
0.03	2709.4
0.05	2715.8
0.10	2728.8
0.15	2735.4
0.22	2744.8
0.25	2749.5
0.50	2773.5
1.00	2804.0
2.27	2848.6
4.02	2884.3
9.02	2939.0
16.00	2973.3
25.00	3001.4
36.00	3024.1
49.00	3043.1
64.00	3059.4
81.00	3073.8
100.00	3086.5
144.00	3108.4
300.00	3153.0
520.00	3187.9
700.00	3206.3
960.00	3225.8
1080.35	3233.0



Tested By *TM* Date *10/8/04* Checked By *DDA* Date *10/18/04*

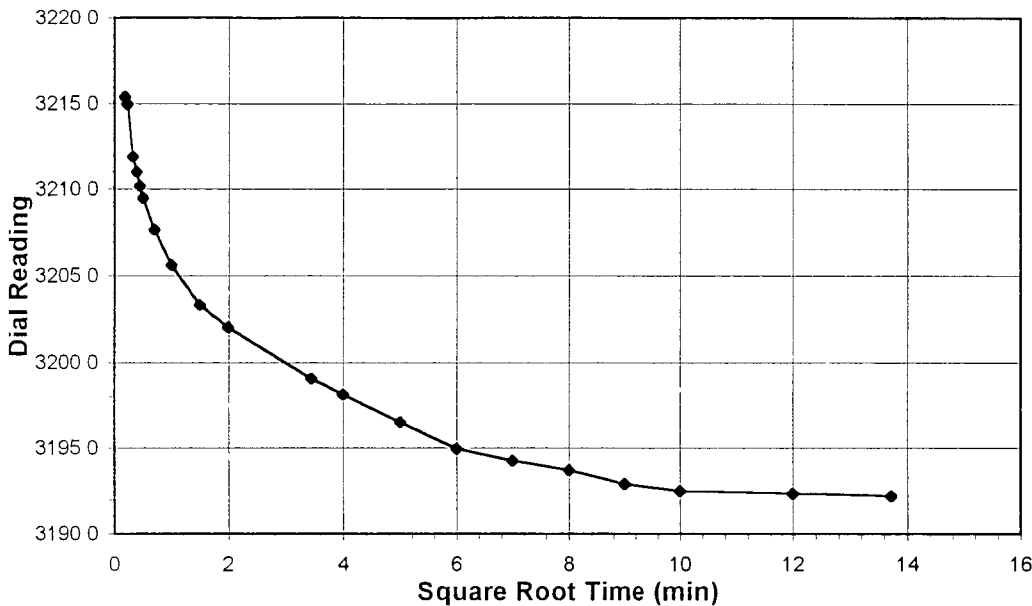


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-90 (SOP-S24A)

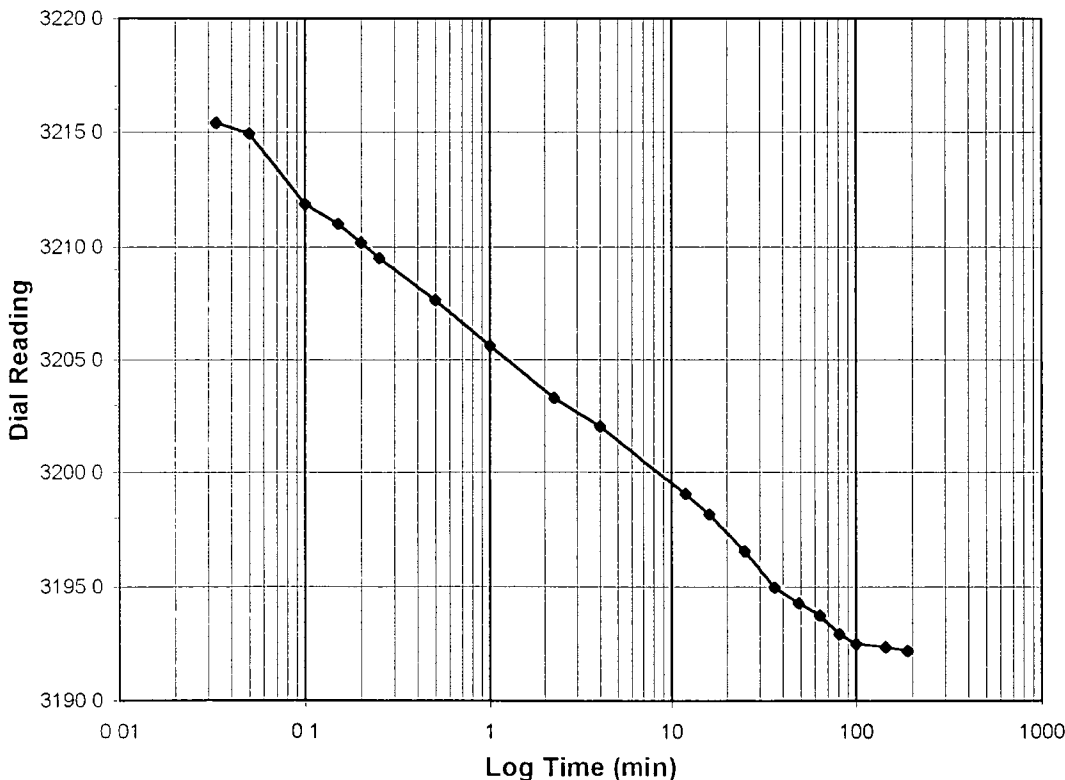
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PPF-35 POST S/T
Lab ID	2004-221-03-08	Visual Description	BROWN STABILIZED MATERIAL (RECEIVED LOOSE IN TUBE)

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	8.0-4.0
Final Reading (div)	3192.2
Consolidometer No.	2
1 Division (in)	0.0001
Start Date	10/9/04
Start Time	4:23:14

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>3233.0</b>
0.03	3215.4
0.05	3214.9
0.10	3211.9
0.15	3211.0
0.20	3210.2
0.25	3209.5
0.50	3207.6
1.00	3205.6
2.25	3203.3
4.00	3202.0
11.88	3199.1
16.00	3198.1
25.00	3196.5
36.00	3195.0
49.00	3194.3
64.00	3193.7
81.02	3192.9
100.00	3192.5
144.02	3192.4
188.37	3192.2



Tested By *TM* Date *10/9/04* Checked By *DDA* Date *10/16/04*

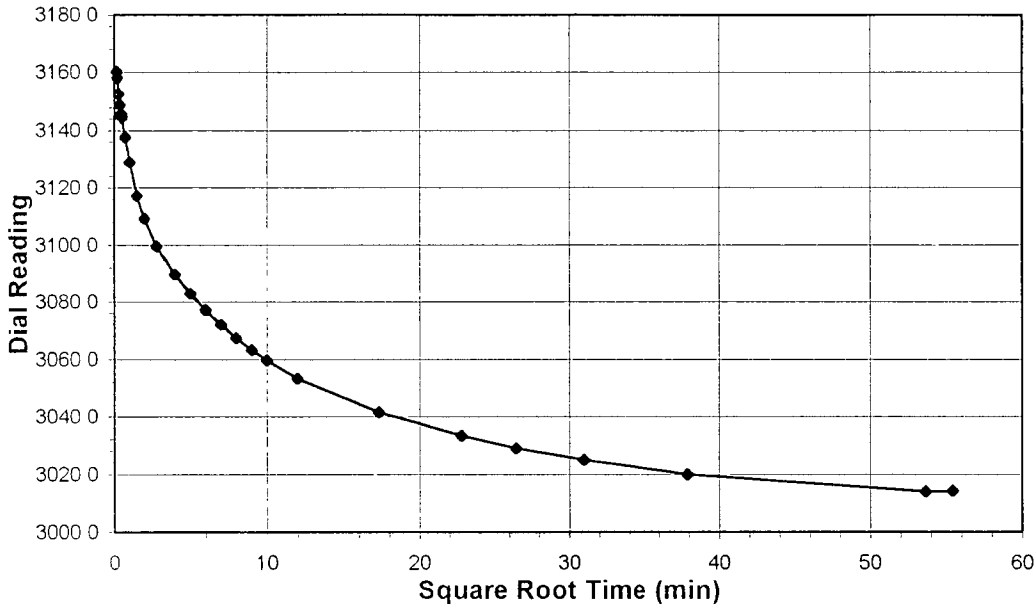


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-90 (SOP-S24A)

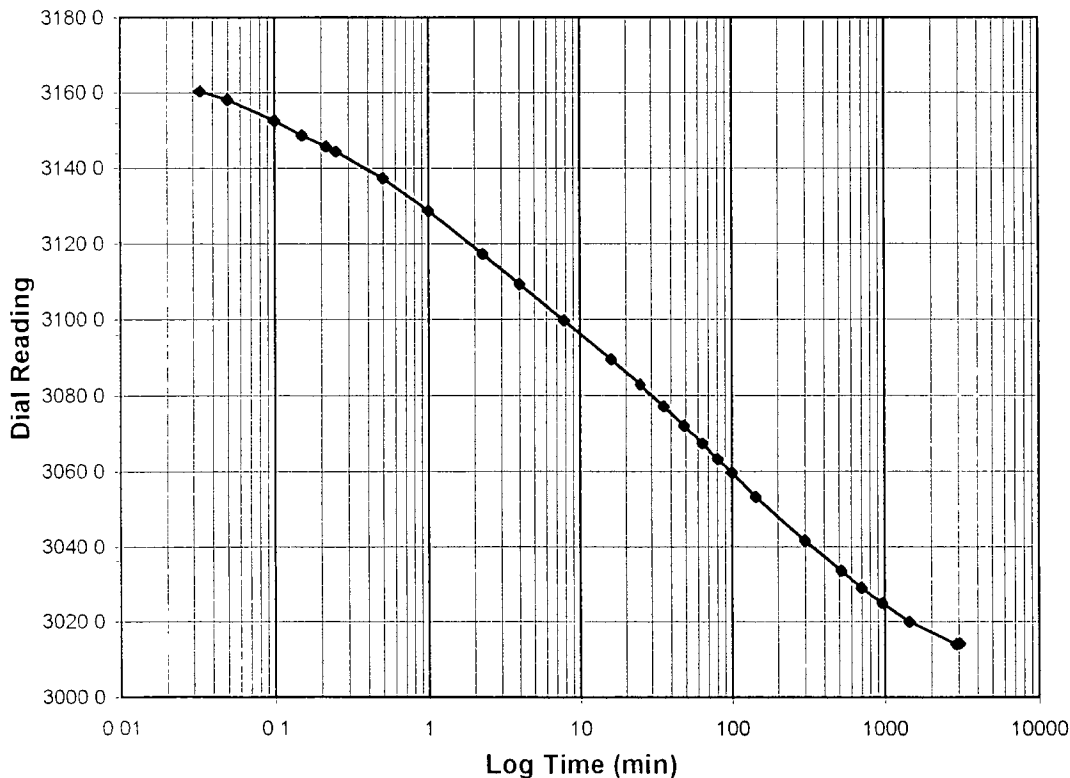
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-03	Sample No.	PPF-35 POST S/T
Lab ID	2004-221-03-08	Visual Description	BROWN STABILIZED MATERIAL (RECEIVED LOOSE IN TUBE)

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	4.0-1.0
Final Reading (div)	3014.0
Consolidometer No.	2
1 Division (in)	0.0001
Start Date	10/9/04
Start Time	7:37:24

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>3192.2</b>
0.03	3160.4
0.05	3158.2
0.10	3152.5
0.15	3148.8
0.22	3145.8
0.25	3144.5
0.50	3137.4
1.00	3128.8
2.27	3117.3
4.00	3109.2
7.85	3099.6
16.00	3089.5
25.00	3082.9
36.00	3077.2
49.00	3072.0
64.00	3067.5
81.00	3063.3
100.02	3059.8
144.00	3053.3
300.00	3041.6
520.00	3033.5
700.00	3029.0
960.00	3024.9
1440.00	3020.0
2880.00	3014.0
3072.52	3014.2



Tested By *TM* Date *10/9/04* Checked By *DDA* Date *10/18/04*

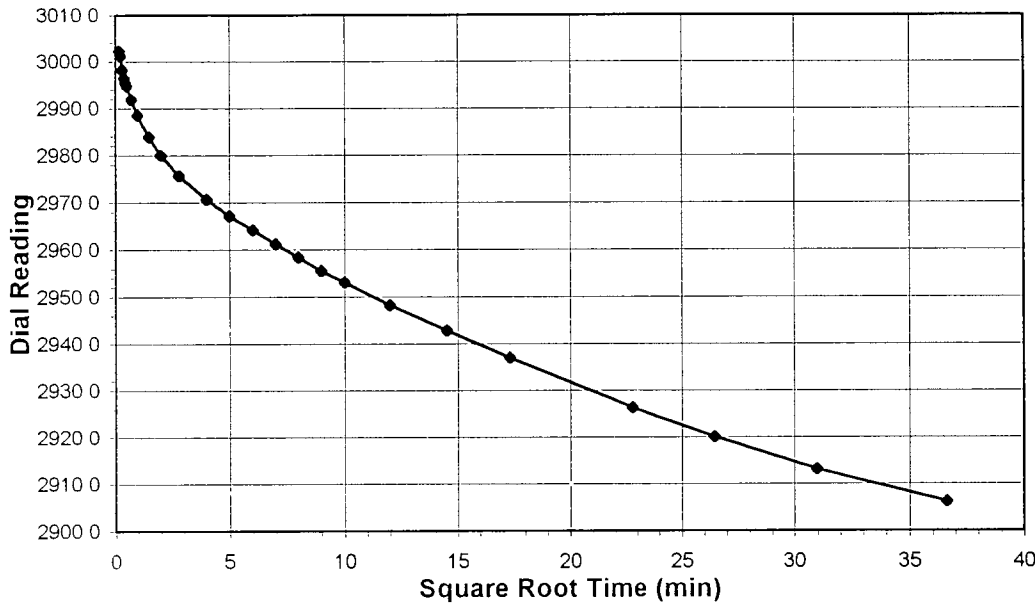


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-90 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PFP-35 POST S/T
Lab ID	2004-221-03-08	Visual Description	BROWN STABILIZED MATERIAL (RECEIVED LOOSE IN TUBE)

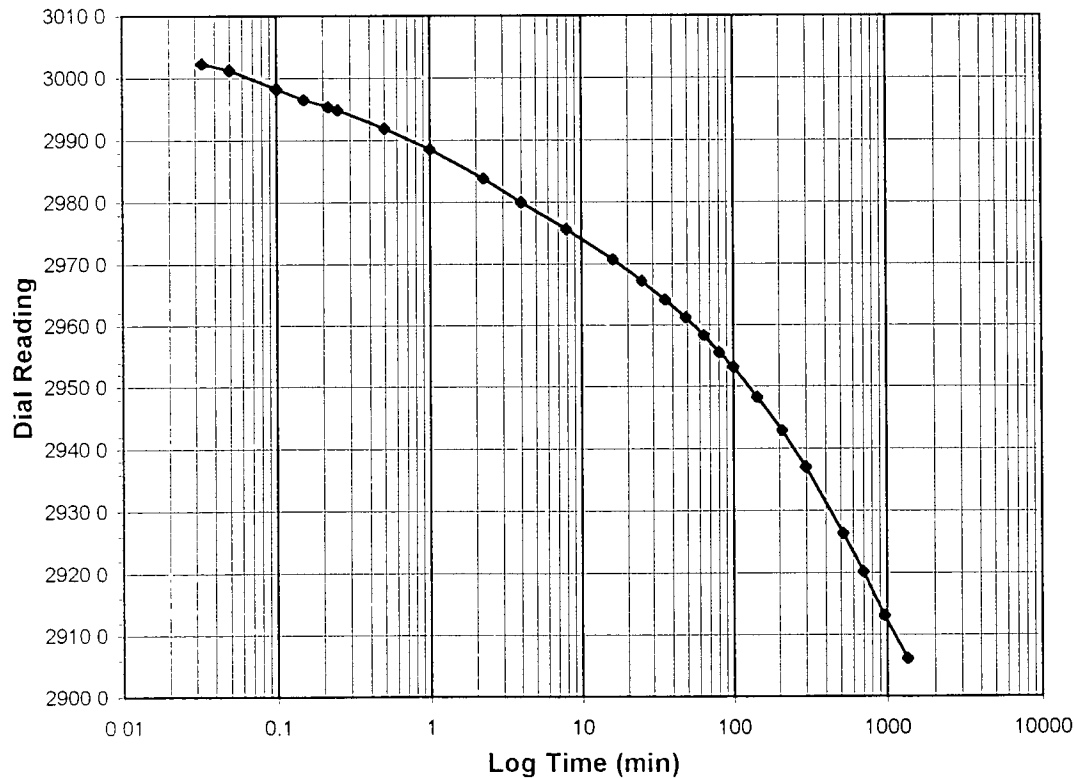
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	1.0-0.25
Final Reading (div)	2906.2
Consolidometer No.	2
1 Division (in)	0.0001

Start Date	10/11/04
Start Time	11:03:09

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>3014.0</b>
0.03	3002.3
0.05	3001.3
0.10	2998.2
0.15	2996.4
0.22	2995.4
0.25	2994.8
0.50	2991.9
1.00	2988.6
2.25	2983.9
4.00	2980.0
7.95	2975.7
16.00	2970.7
25.00	2967.2
36.00	2964.1
49.00	2961.2
64.00	2958.3
81.00	2955.5
100.00	2953.1
144.00	2948.3
210.45	2942.9
300.00	2937.0
520.00	2926.4
700.00	2920.1
960.00	2913.2
1341.88	2906.2



Tested By *TM* Date *10/11/04* Checked By *DDA* Date *10/18/04*

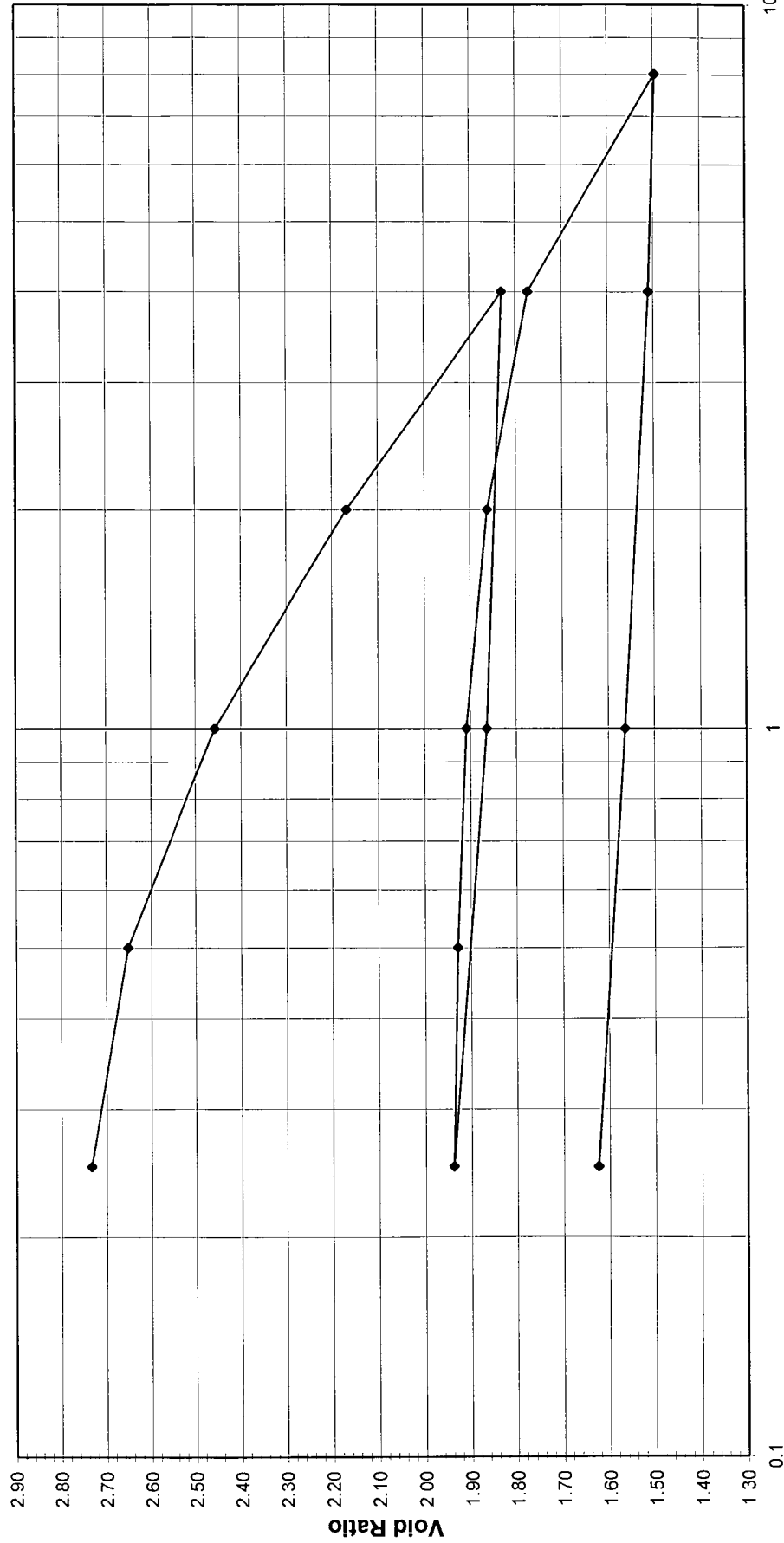


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 / AASHTO T216-03 (SOP-S24)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Reference	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PPF-40 POST S/T
Lab ID	2004-221-03-09	Visual Description	BROWN STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Log P (tsf)

Tested By *TM* Date *10/8/04* Approved By *DB* Date *10/10/04*





# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 / AASHTO T216-03 (SOP-S24)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Reference	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PPF-40 POST S/T
Lab ID	2004-221-03-09	Visual Description	BROWN STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED

**Consolidometer No.** 4

**1 Division** = 0.0001 (in)

Sample Properties	Initial	Final
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<i>Water Content</i>		
Tare Number	290	1399
Wt. Tare & WS (gm)	47.24	104.68
Wt. Tare & DS (gm)	29.16	78.57
Wt. Water (gm)	18.08	26.11
Wt. Tare (gm)	8.18	38.18
Wt. DS (gm)	20.98	40.39
Water Content (%)	86.18	64.64

*Sample Parameters*

Sample Diameter (in)	2.5	2.5
Sample Height (in)	0.75	0.510
Sample Volume (cc)	60.33	41.03
Wt. Wet Sample + Ring (gm)	156.29	147.20
Wt. of Ring (gm)	77.69	77.69
Wt. of Wet Sample (gm)	78.60	69.51
Wet Density (pcf)	81.30	105.72
Wet Density (g/cc)	1.30	1.69
Water Content (%)	86.18	64.64
Wt. of Dry Sample (gm)	42.22	42.22
Dry Density (pcf)	43.67	64.21
Dry Density (g/cc)	0.70	1.03
Void Ratio	2.8583	1.6239
Saturation (%)	81.40	107.48
Specific Gravity	2.70	Assumed

## Test Data Summary

Applied Pressure (tsf)	Final Reading (div)	Machine Deflection (div)	Corrected Reading (div)	Height of Sample (mm)	Volume (cc)	Dry Density (g/cc)	Void Ratio
Seating	0	0	0	19.050	60.330	0.69978	2.85834
0.25	248.4	6.6	241.8	18.436	58.385	0.72310	2.73395
0.5	413.7	11.7	402.0	18.029	57.096	0.73942	2.65153
1	798.4	18.5	779.9	17.069	54.056	0.78100	2.45712
2	1371.7	28.5	1343.2	15.638	49.525	0.85245	2.16734
4	2040.9	41.2	1999.7	13.971	44.244	0.95420	1.82960
1	1963.4	30.8	1932.6	14.141	44.784	0.94270	1.86412
0.25	1802.3	14.6	1787.7	14.509	45.950	0.91878	1.93866
0.5	1821.6	14.5	1807.1	14.460	45.794	0.92192	1.92868
1	1868.0	21.6	1846.4	14.360	45.477	0.92832	1.90847
2	1965.8	29.4	1936.4	14.132	44.753	0.94334	1.86217
4	2152.2	41.6	2110.6	13.689	43.352	0.97383	1.77255
8	2702.4	53.3	2649.1	12.321	39.021	1.08194	1.49552
4	2673.0	51.3	2621.7	12.391	39.241	1.07586	1.50962
1	2554.8	36.7	2518.1	12.654	40.074	1.05349	1.56291
0.25	2419.3	19.7	2399.6	12.955	41.028	1.02901	1.62388

Tested By TM Date 10/8/04 Input Checked By CSU Date 11/10/04

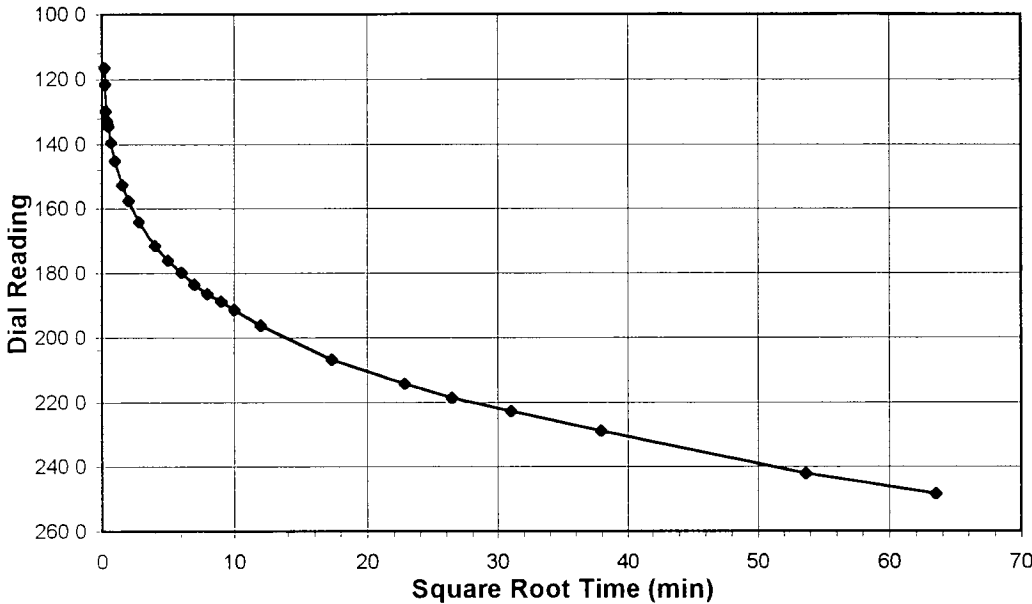


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PPF-40 POST S/T
Lab ID	2004-221-03-09	Visual Description	BROWN STABILIZED MATERIAL

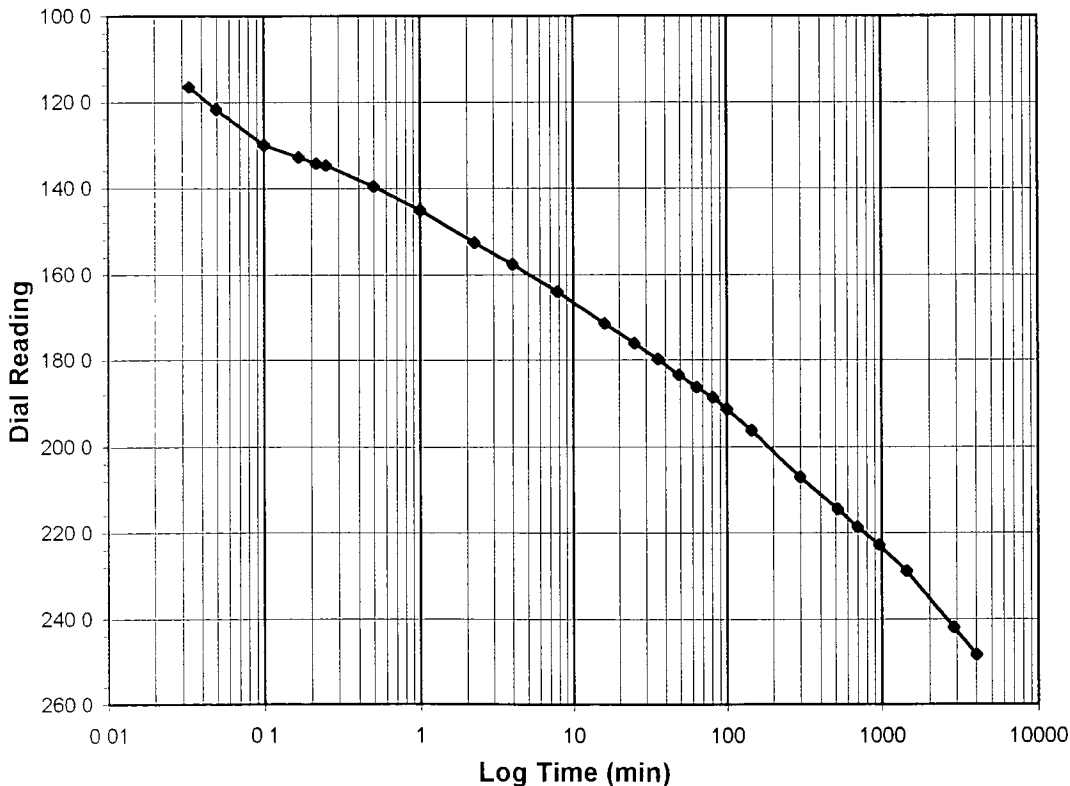
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0-0.25
Final Reading (div)	248.4
Consolidometer No.	4
1 Division (in)	0.0001

Start Date	10/8/04
Start Time	15:33:32

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<i>0.0</i>
0.03	116.6
0.05	121.7
0.10	129.9
0.17	132.8
0.22	134.3
0.25	134.7
0.50	139.6
1.00	145.1
2.25	152.7
4.00	157.7
7.85	164.1
16.00	171.5
25.00	176.1
36.02	179.9
49.00	183.6
64.00	186.4
81.00	188.8
100.00	191.4
144.00	196.4
300.00	207.0
520.00	214.5
700.00	218.7
960.00	222.9
1440.00	228.9
2880.00	242.0
4036.38	248.4



Tested By *TM* Date *10/8/04* Checked By *GU* Date *11/10/04*

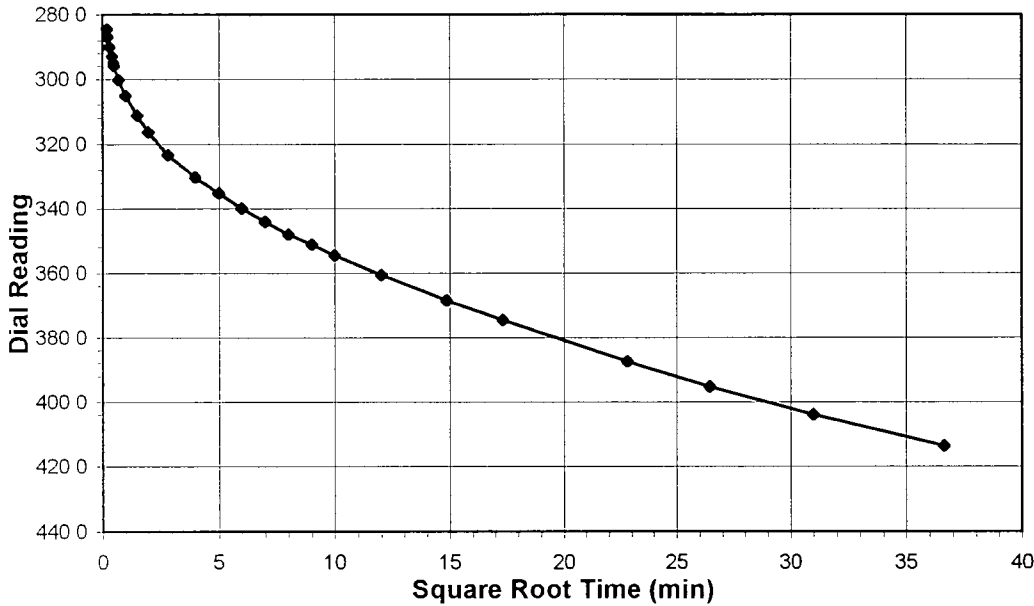


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

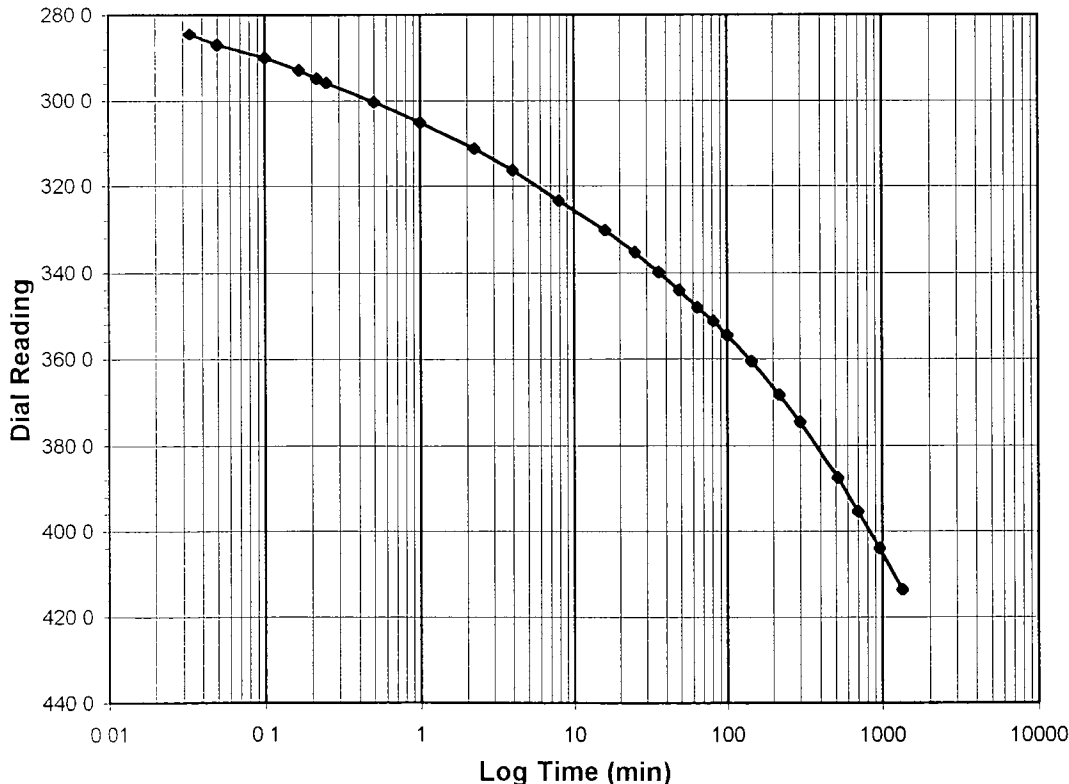
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PPF-40 POST S/T
Lab ID	2004-221-03-09	Visual Description	BROWN STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.25-0.5
Final Reading (div)	413.7
Consolidometer No.	4
1 Division (in)	0.0001
Start Date	10/11/04
Start Time	11:03:16

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>248.4</b>
0.03	284.5
0.05	287.0
0.10	290.0
0.17	292.9
0.22	294.9
0.25	295.8
0.50	300.3
1.00	305.2
2.25	311.3
4.00	316.3
7.97	323.4
16.00	330.3
25.00	335.3
36.00	339.9
49.00	344.1
64.00	348.0
81.00	351.2
100.00	354.6
144.00	360.6
220.70	368.4
300.00	374.5
520.00	387.5
700.00	395.5
960.00	404.0
1341.77	413.7



Tested By *TM* Date *10/11/04* Checked By *GU* Date *11/10/04*

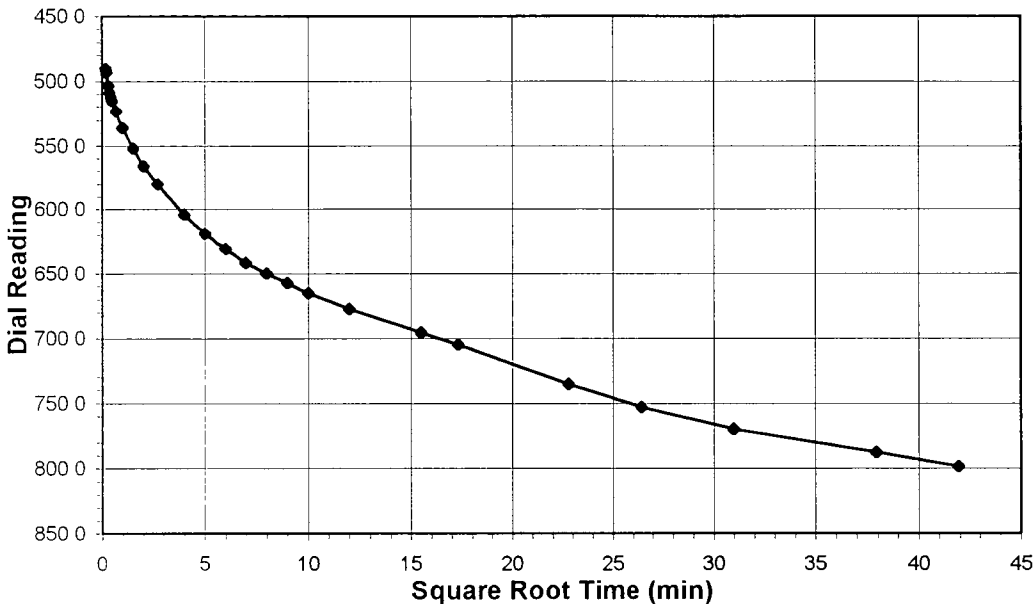


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

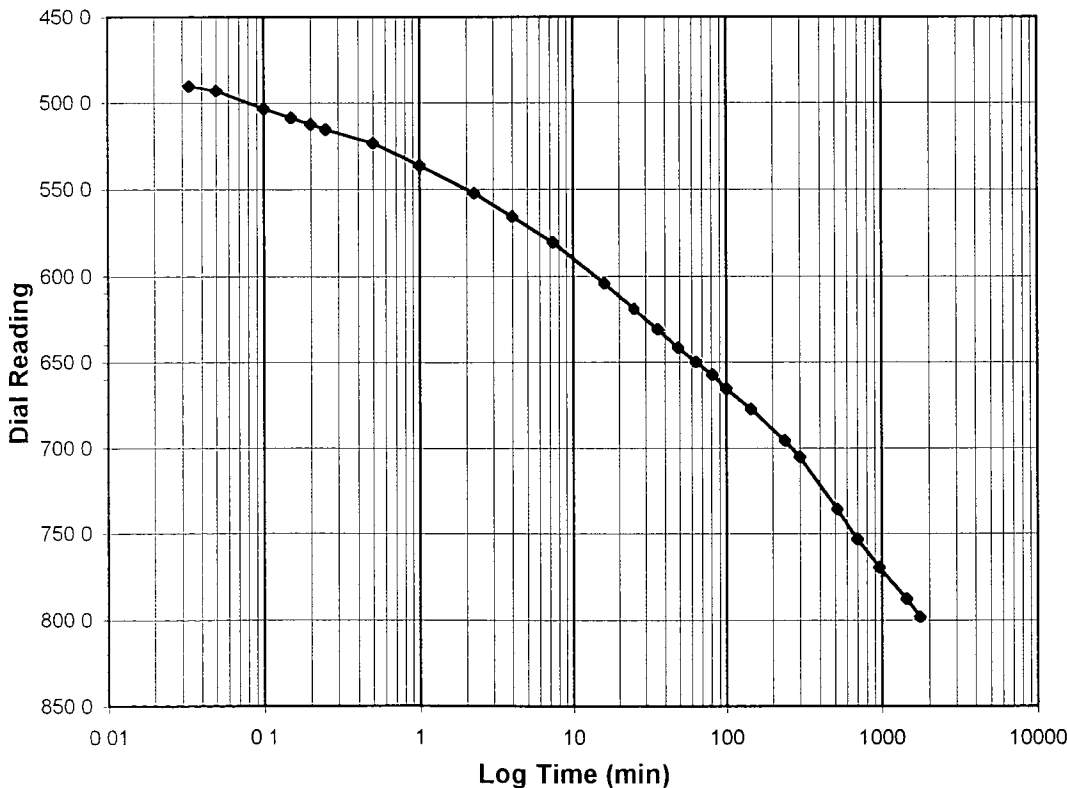
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PFP-40 POST S/T
Lab ID	2004-221-03-09	Visual Description	BROWN STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.5-1.0
Final Reading (div)	798.4
Consolidometer No.	4
1 Division (in)	0.0001
Start Date	10/12/04
Start Time	9:37:41

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>413.7</b>
0.03	490.5
0.05	493.3
0.10	503.4
0.15	508.8
0.20	512.5
0.25	515.5
0.50	523.4
1.00	536.2
2.25	552.2
4.00	565.8
7.35	580.4
16.00	604.2
25.00	619.2
36.00	631.0
49.00	641.7
64.00	650.2
81.00	657.5
100.00	665.5
144.00	677.6
239.65	695.7
300.00	705.3
520.02	735.7
700.00	753.4
960.00	769.8
1440.00	787.8
1760.00	798.4



Tested By *TM* Date *10/12/04* Checked By *GU* Date *11/10/04*

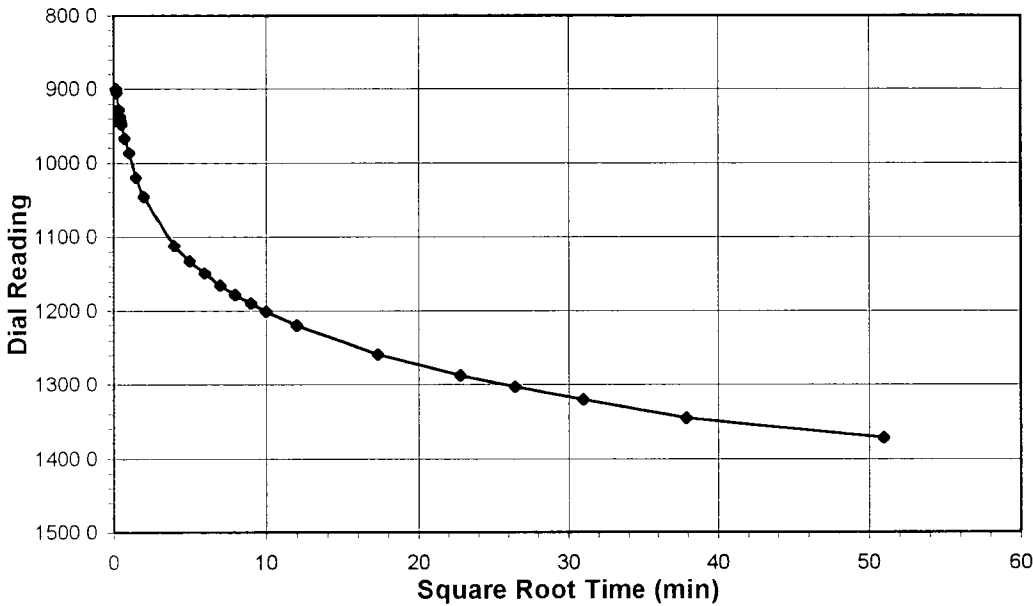


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-03	Sample No.	PFP-40 POST S/T
Lab ID	2004-221-03-09	Visual Description	BROWN STABILIZED MATERIAL

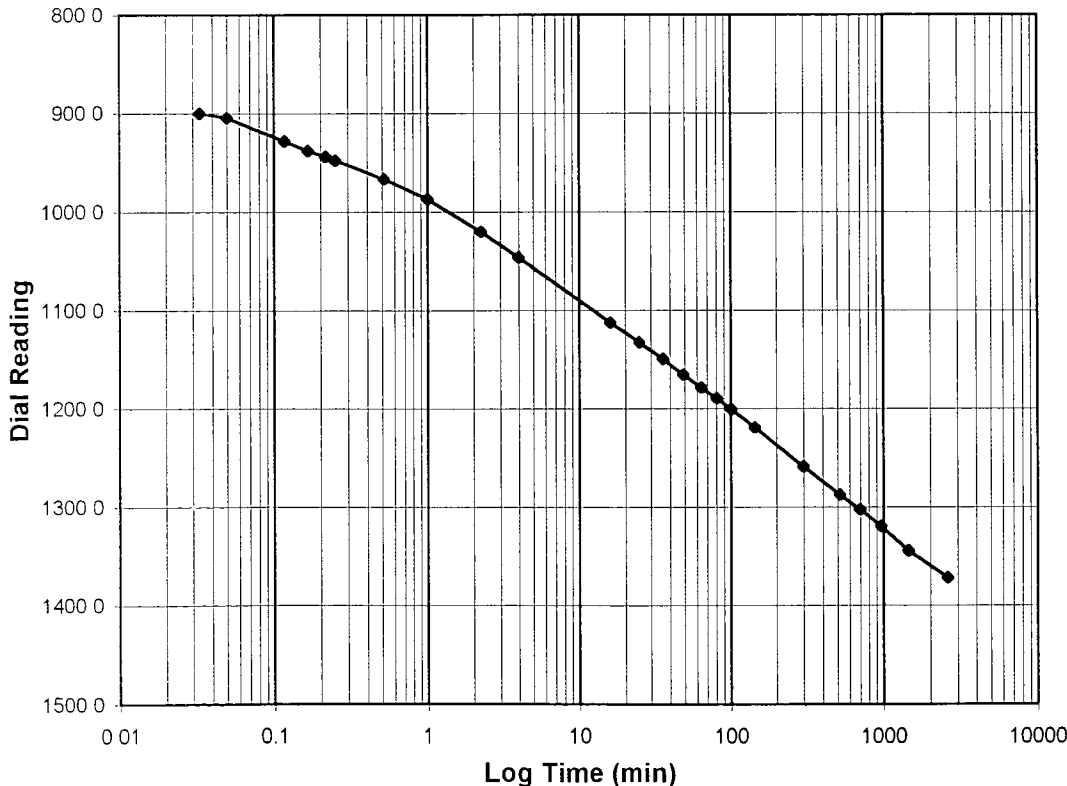
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	1.0-2.0
Final Reading (div)	1371.7
Consolidometer No.	4
1 Division (in)	0.0001

Start Date	10/13/04
Start Time	15:06:47

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>798.4</b>
0.03	900.0
0.05	904.7
0.12	928.2
0.17	937.9
0.22	943.6
0.25	947.7
0.52	966.5
1.00	987.0
2.25	1019.9
4.00	1045.9
16.00	1112.5
25.00	1132.4
36.00	1149.1
49.00	1165.3
64.00	1178.4
81.00	1190.0
100.00	1200.4
144.00	1219.9
300.00	1259.1
520.00	1288.0
700.00	1303.0
960.00	1320.0
1440.00	1344.8
2597.38	1371.7



Tested By TM Date 10/13/04 Checked By GU Date 11/10/04

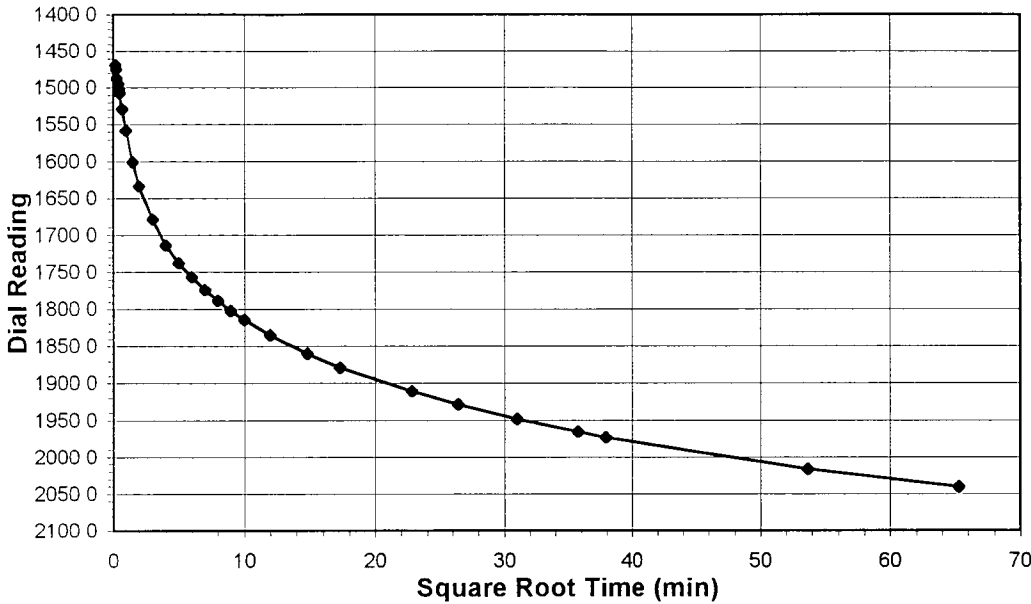


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PPF-40 POST S/T
Lab ID	2004-221-03-09	Visual Description	BROWN STABILIZED MATERIAL

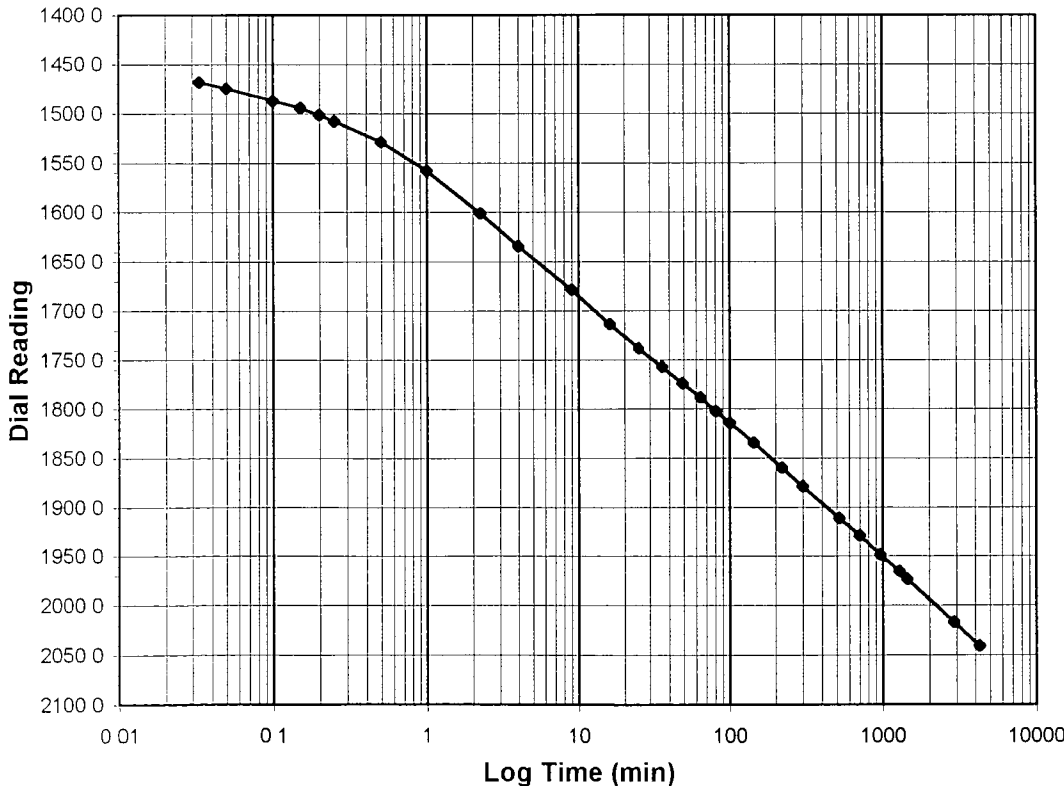
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	2.0-4.0
Final Reading (div)	2040.9
Consolidometer No.	4
1 Division (in)	0.0001

Start Date	10/15/04
Start Time	10:42:43

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>1371.7</b>
0.03	1468.5
0.05	1474.6
0.10	1487.1
0.15	1494.4
0.20	1501.6
0.25	1507.7
0.50	1528.9
1.00	1558.2
2.25	1600.8
4.00	1634.0
9.02	1678.5
16.00	1713.5
25.02	1738.0
36.00	1757.3
49.00	1773.9
64.00	1788.6
81.00	1802.4
100.00	1814.5
144.00	1834.8
220.17	1859.8
300.02	1878.7
520.00	1911.1
700.00	1929.2
960.00	1948.3
1278.58	1965.6
1440.00	1973.3
2880.00	2017.0
4264.37	2040.9



Tested By TM Date 10/15/04 Checked By GO Date 11/10/04

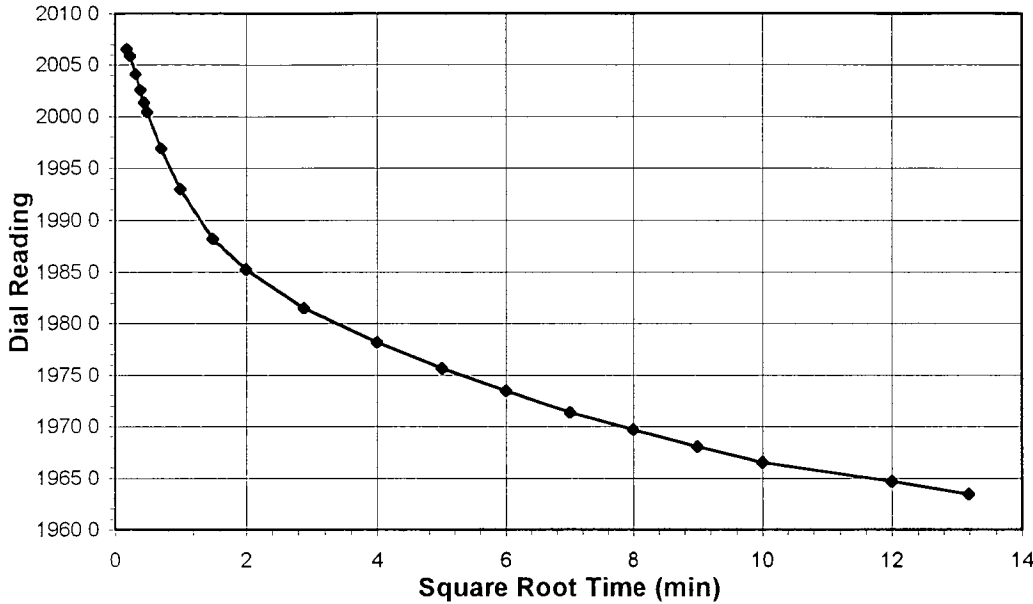


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PFP-40 POST S/T
Lab ID	2004-221-03-09	Visual Description	BROWN STABILIZED MATERIAL

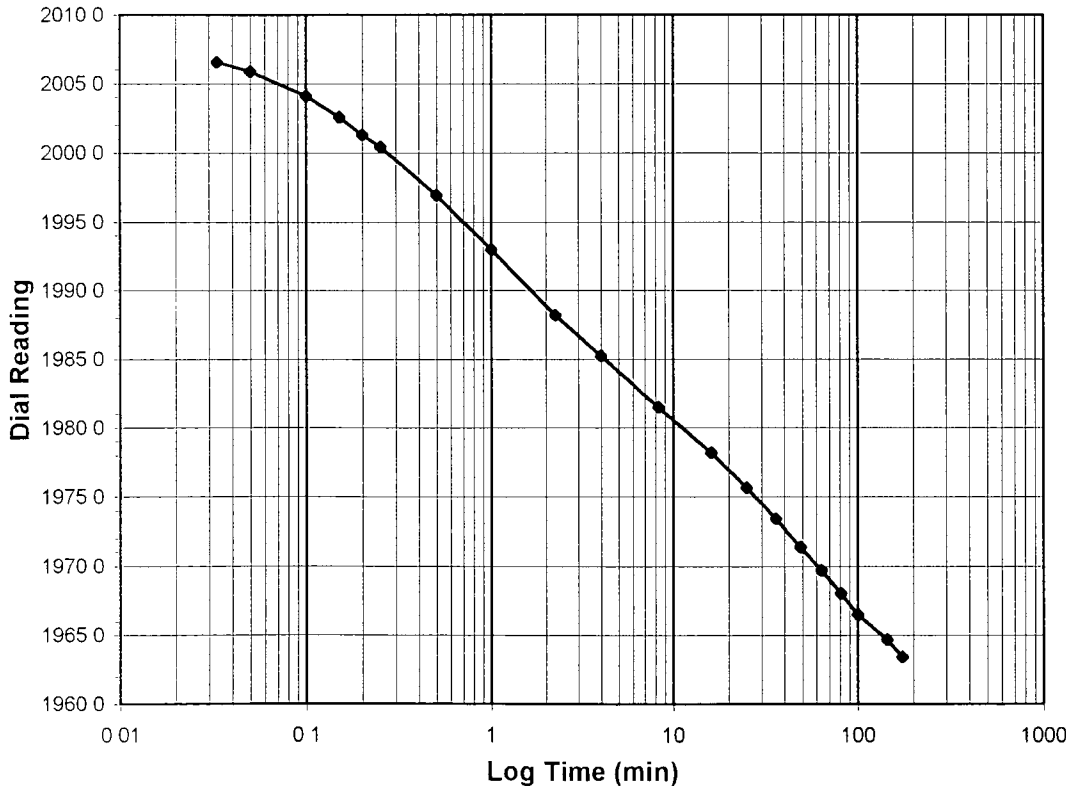
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	4.0-1.0
Final Reading (div)	1963.4
Consolidometer No.	4
1 Division (in)	0.0001

Start Date	10/18/04
Start Time	10:00:25

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>2040.9</b>
0.03	2006.6
0.05	2005.9
0.10	2004.1
0.15	2002.6
0.20	2001.3
0.25	2000.4
0.50	1996.9
1.00	1993.0
2.25	1988.2
4.00	1985.2
8.32	1981.5
16.00	1978.2
25.00	1975.6
36.00	1973.4
49.00	1971.4
64.00	1969.7
81.00	1968.0
100.00	1966.5
144.00	1964.7
174.00	1963.4



Tested By *TM* Date *10/18/04* Checked By *GU* Date *11/10/04*

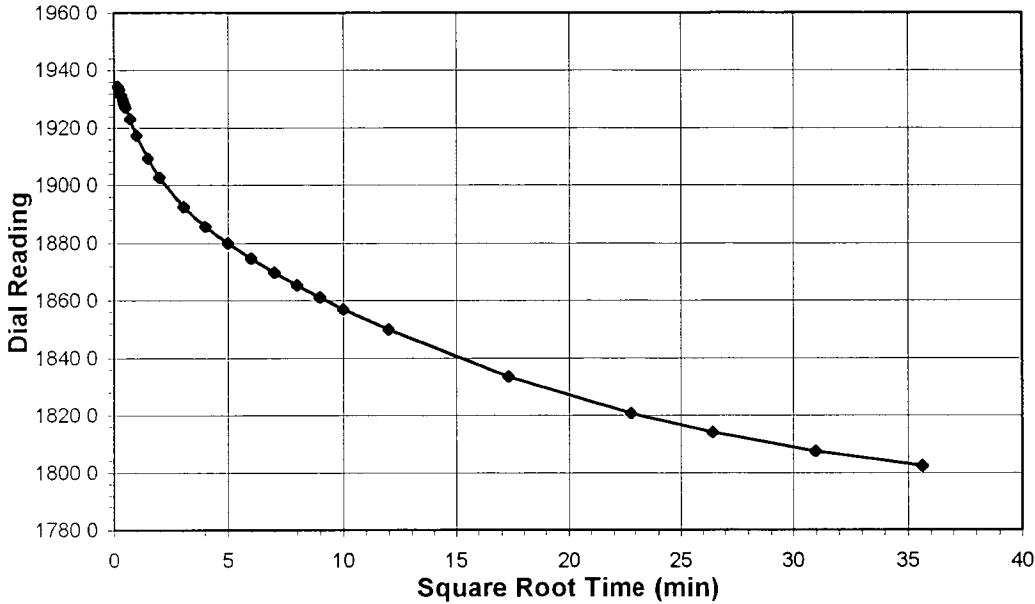


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

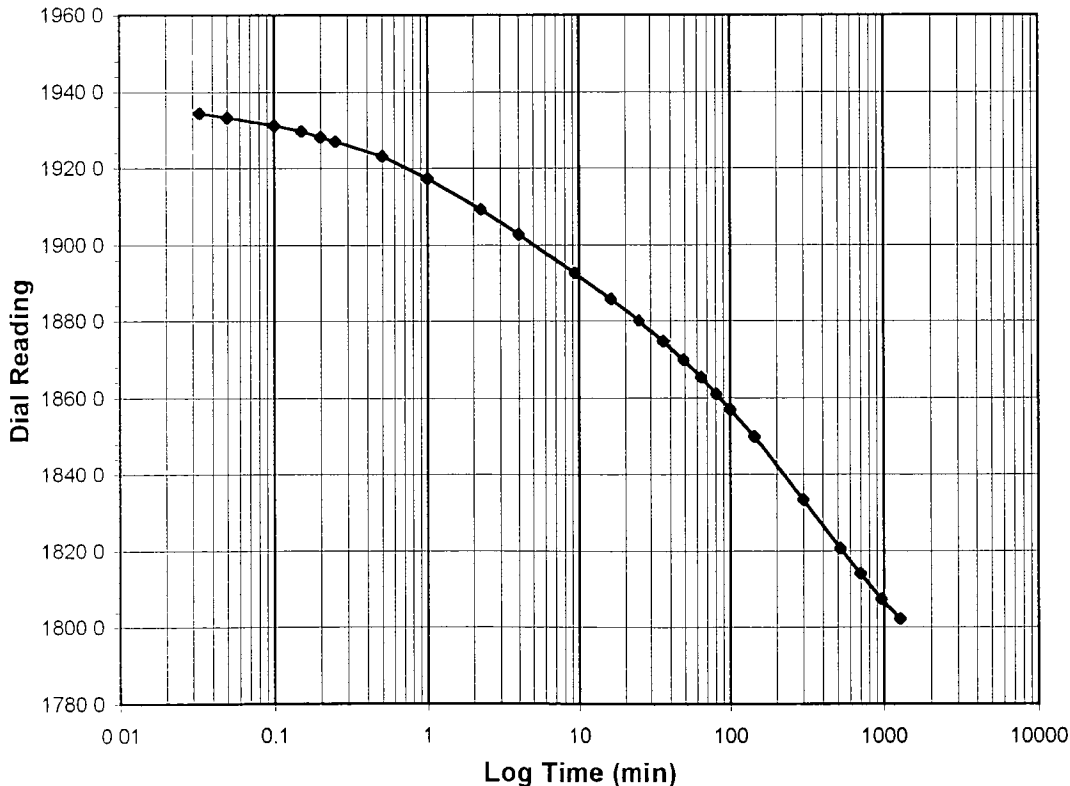
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PPF-40 POST S/T
Lab ID	2004-221-03-09	Visual Description	BROWN STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	1.0-0.25
Final Reading (div)	1802.3
Consolidometer No.	4
1 Division (in)	0.0001
Start Date	10/18/04
Start Time	13:08:04

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>1963.4</b>
0.03	1934.3
0.05	1933.3
0.10	1931.2
0.15	1929.7
0.20	1928.3
0.25	1927.1
0.50	1923.1
1.00	1917.4
2.25	1909.4
4.00	1902.7
9.37	1892.5
16.02	1885.7
25.00	1880.0
36.00	1874.7
49.00	1869.8
64.00	1865.3
81.00	1861.1
100.00	1857.0
144.00	1850.0
300.00	1833.4
520.00	1820.6
700.00	1814.1
960.00	1807.4
1268.85	1802.3



Tested By *TM* Date *10/18/04* Checked By *GU* Date *11/10/04*



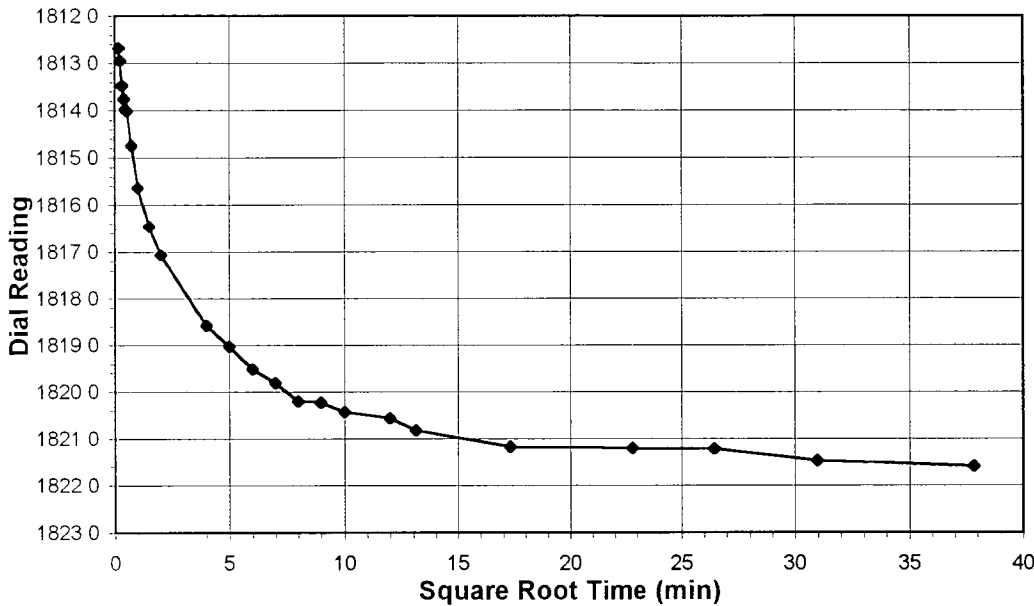


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PPF-40 POST S/T
Lab ID	2004-221-03-09	Visual Description	BROWN STABILIZED MATERIAL

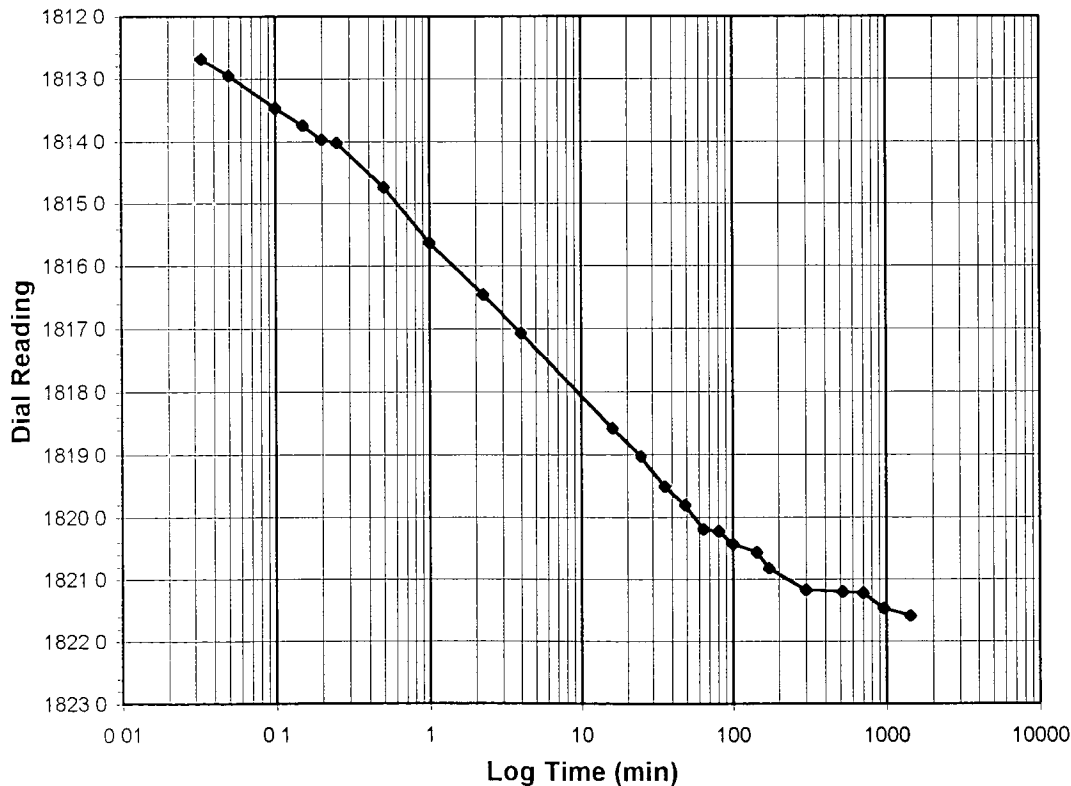
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.25-0.5
Final Reading (div)	1821.6
Consolidometer No.	4
1 Division (in)	0.0001

Start Date	10/19/04
Start Time	10:29:30

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>1802.3</b>
0.03	1812.7
0.05	1813.0
0.10	1813.5
0.15	1813.8
0.20	1814.0
0.25	1814.0
0.50	1814.7
1.00	1815.6
2.25	1816.5
4.00	1817.1
16.00	1818.6
25.00	1819.0
36.00	1819.5
49.00	1819.8
64.00	1820.2
81.00	1820.2
100.00	1820.4
144.00	1820.6
171.93	1820.8
300.00	1821.2
520.00	1821.2
700.00	1821.2
960.00	1821.5
1431.58	1821.6



Tested By *TM* Date *10/19/04* Checked By *GU* Date *11/10/04*

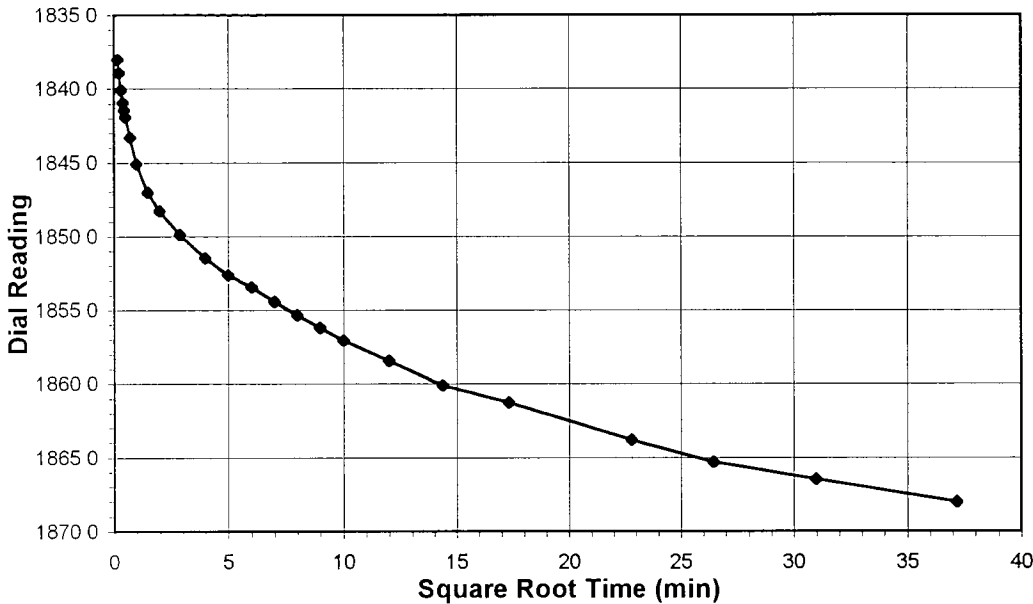


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PPF-40 POST S/T
Lab ID	2004-221-03-09	Visual Description	BROWN STABILIZED MATERIAL

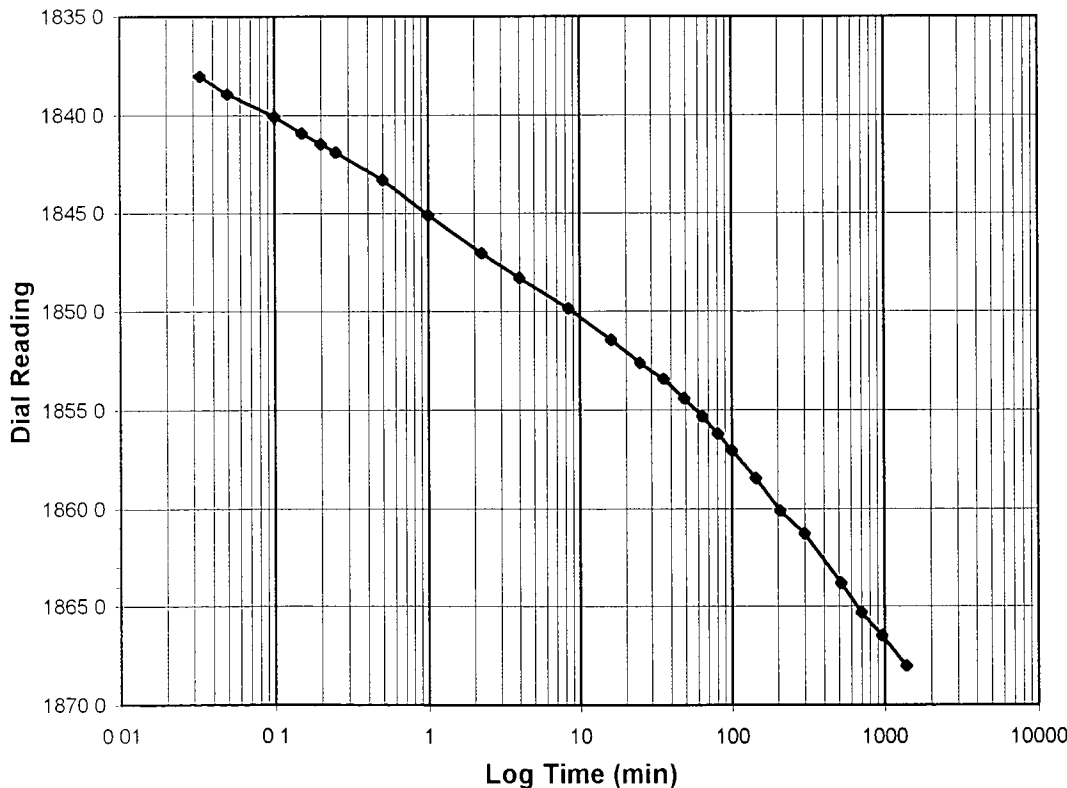
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 0.5-1.0  
 Final Reading (div) 1868.0  
 Consolidometer No. 4  
 1 Division (in) 0.0001

Start Date 10/20/04  
 Start Time 10:24:04

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>1821.6</b>
0.03	1838.0
0.05	1838.9
0.10	1840.1
0.15	1840.9
0.20	1841.5
0.25	1841.9
0.50	1843.3
1.00	1845.1
2.25	1847.0
4.00	1848.3
8.38	1849.9
16.00	1851.5
25.00	1852.6
36.00	1853.5
49.00	1854.4
64.00	1855.3
81.00	1856.2
100.00	1857.1
144.00	1858.4
206.95	1860.1
300.00	1861.3
520.00	1863.8
700.00	1865.3
960.00	1866.5
1382.70	1868.0



Tested By TM Date 10/20/04 Checked By GU Date 11/10/04

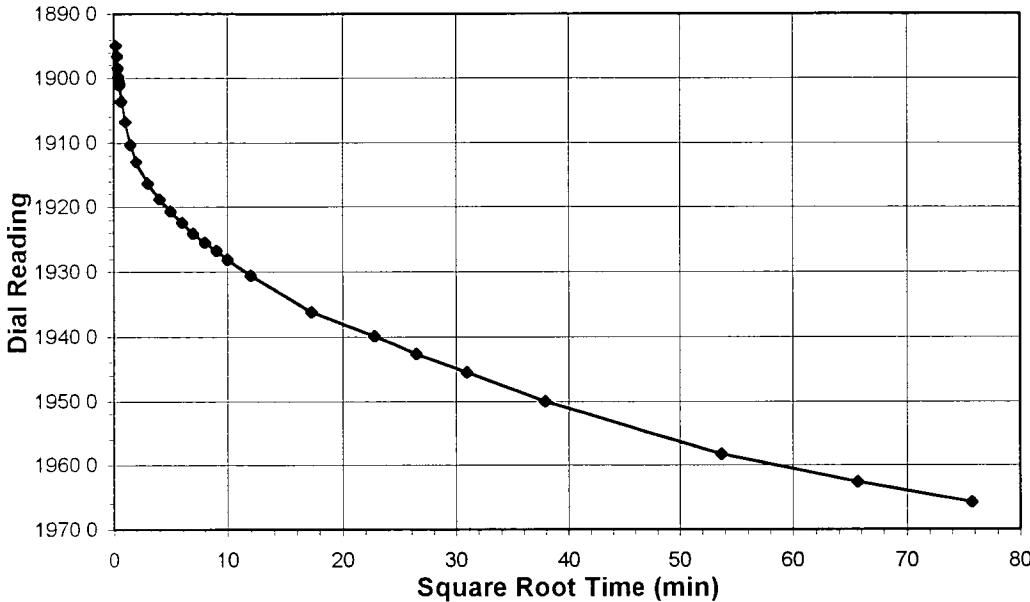


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

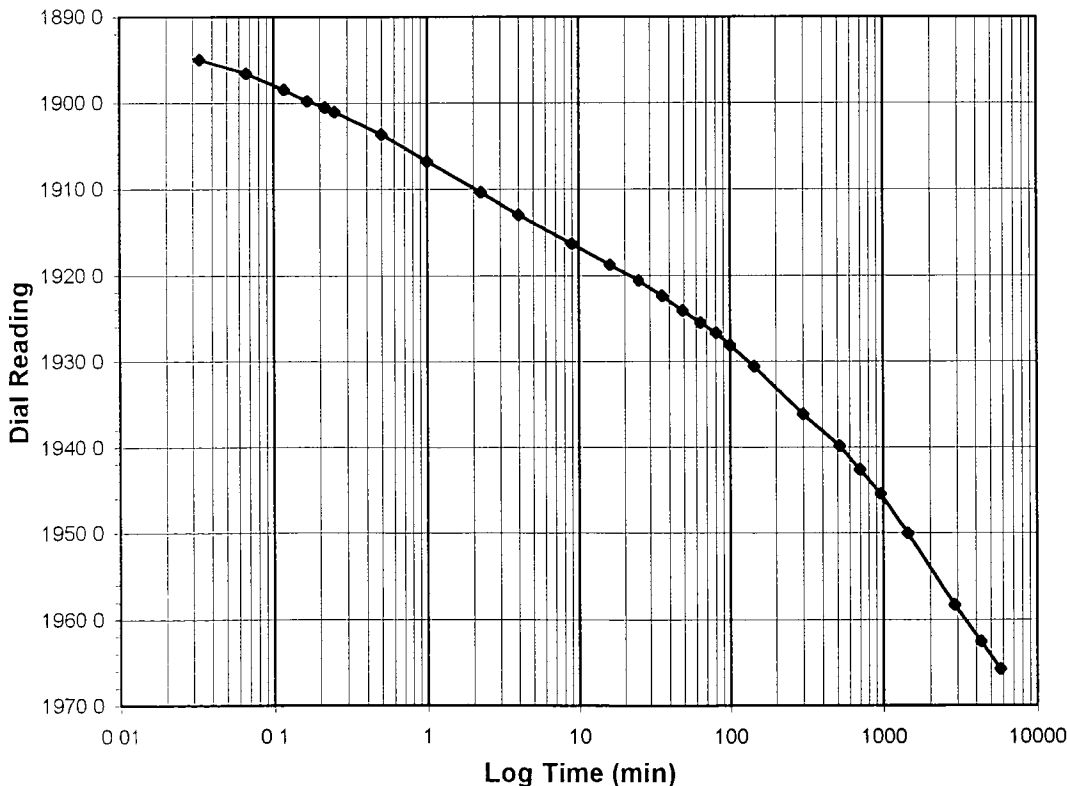
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PPF-40 POST S/T
Lab ID	2004-221-03-09	Visual Description	BROWN STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



<b>Test Load</b>	(tsf)	<b>1.0-2.0</b>
<b>Final Reading</b>	(div)	<b>1965.8</b>
Consolidometer No.		4
1 Division	(in)	0.0001
Start Date		10/21/04
Start Time		9:44:37

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>1868.0</b>
0.03	1895.0
0.07	1896.6
0.12	1898.5
0.17	1899.8
0.22	1900.5
0.25	1901.1
0.50	1903.7
1.00	1906.8
2.25	1910.3
4.00	1913.0
8.97	1916.3
16.00	1918.8
25.00	1920.6
36.00	1922.4
49.00	1924.1
64.00	1925.5
81.00	1926.8
100.00	1928.1
144.00	1930.6
300.00	1936.2
520.00	1939.9
700.00	1942.7
960.00	1945.5
1440.00	1950.1
2880.00	1958.3
4320.00	1962.6
5737.53	1965.8



Tested By **TM** Date **10/21/04** Checked By **GU** Date **11/10/04**

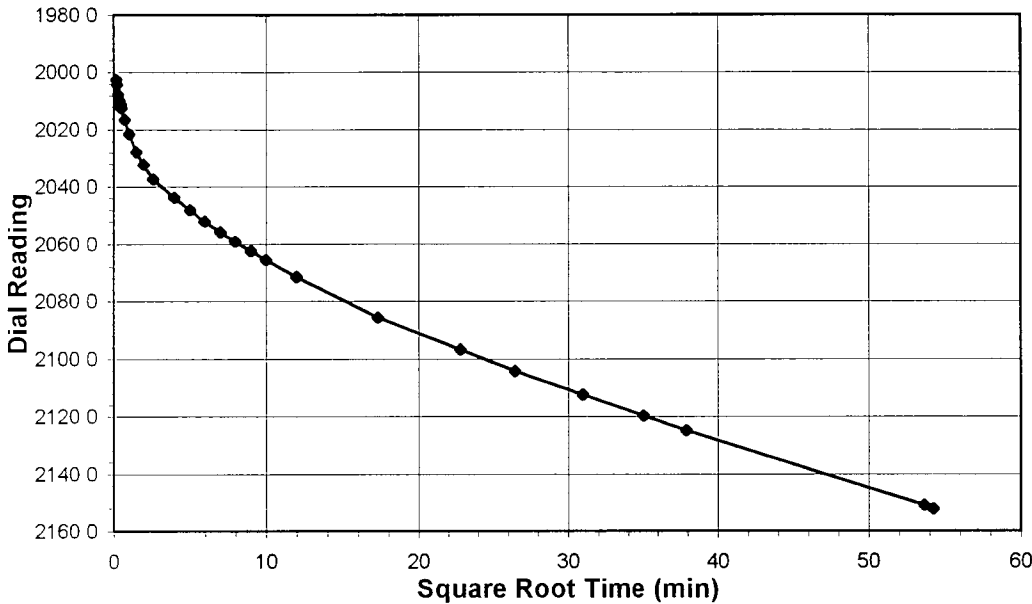


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

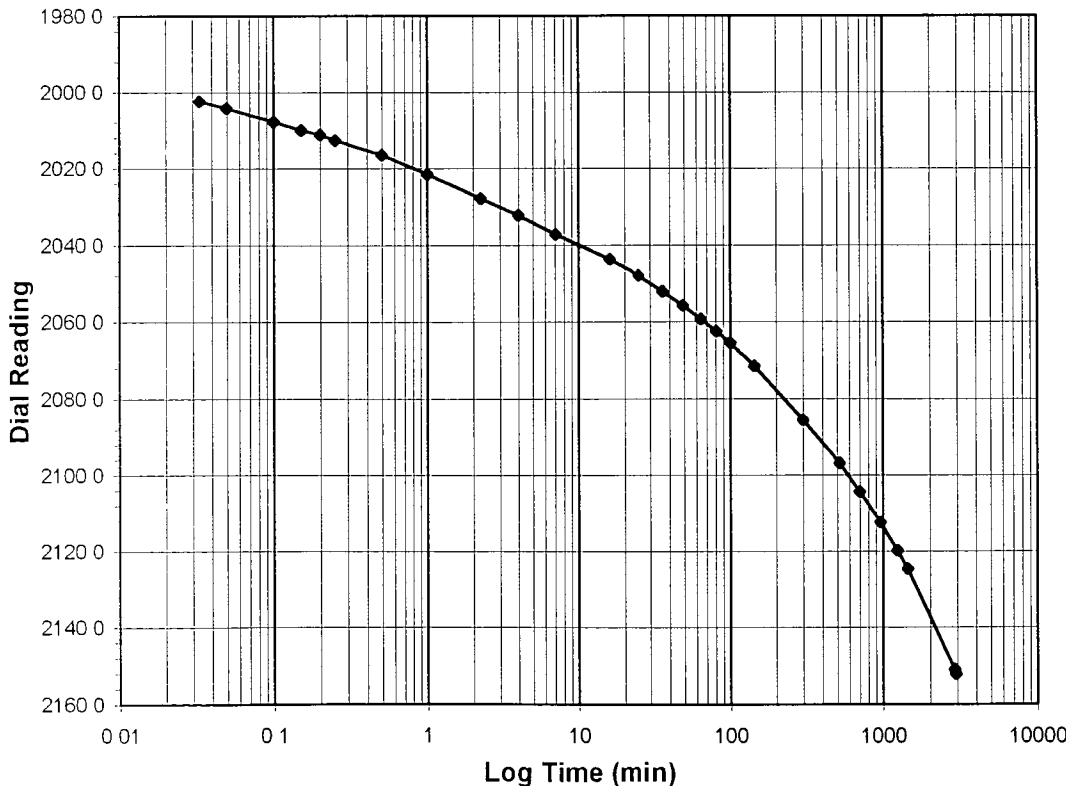
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PPF-40 POST S/T
Lab ID	2004-221-03-09	Visual Description	BROWN STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	2.0-4.0
Final Reading (div)	2152.2
Consolidometer No.	4
1 Division (in)	0.0001
Start Date	10/25/04
Start Time	9:30:15

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>1965.8</b>
0.03	2002.5
0.05	2004.3
0.10	2007.8
0.15	2009.9
0.20	2011.2
0.25	2012.6
0.50	2016.6
1.00	2021.5
2.25	2027.8
4.00	2032.1
7.04	2037.3
16.00	2043.7
25.00	2048.0
36.00	2052.1
49.00	2055.8
64.00	2059.2
81.00	2062.5
100.00	2065.5
144.00	2071.5
300.00	2085.6
520.00	2096.8
700.00	2104.3
960.00	2112.4
1233.62	2119.8
1440.00	2124.8
2880.02	2150.9
2946.30	2152.2



Tested By **TM** Date **10/25/04** Checked By **GU** Date **11/10/14**

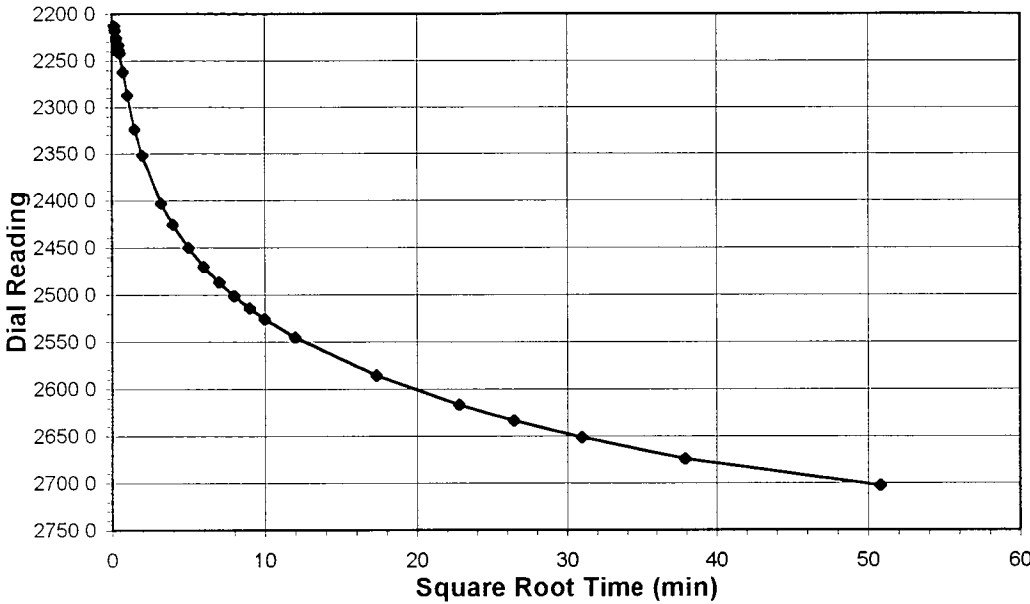


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

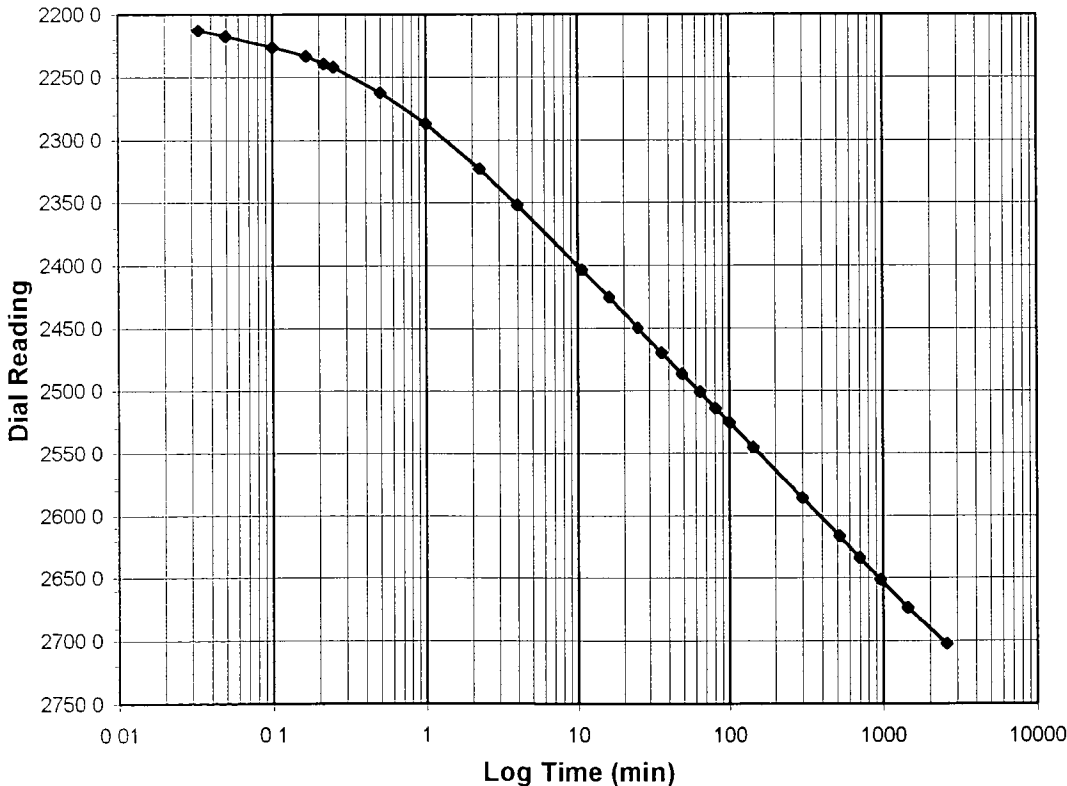
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PPF-40 POST S/T
Lab ID	2004-221-03-09	Visual Description	BROWN STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	4.0-8.0
Final Reading (div)	2702.4
Consolidometer No.	4
1 Division (in)	0.0001
Start Date	10/27/04
Start Time	11:03:48

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>2152.2</b>
0.03	2212.8
0.05	2217.6
0.10	2225.9
0.17	2233.0
0.22	2239.2
0.25	2241.9
0.50	2262.2
1.00	2286.9
2.25	2323.3
4.00	2352.0
10.55	2403.6
16.00	2425.5
25.00	2449.7
36.02	2470.0
49.00	2486.8
64.00	2501.2
81.00	2514.3
100.00	2525.5
144.00	2545.5
300.00	2585.7
520.00	2616.8
700.00	2633.9
960.00	2651.4
1440.00	2674.0
2581.98	2702.4



Tested By TM Date 10/27/04 Checked By GU Date 11/10/04

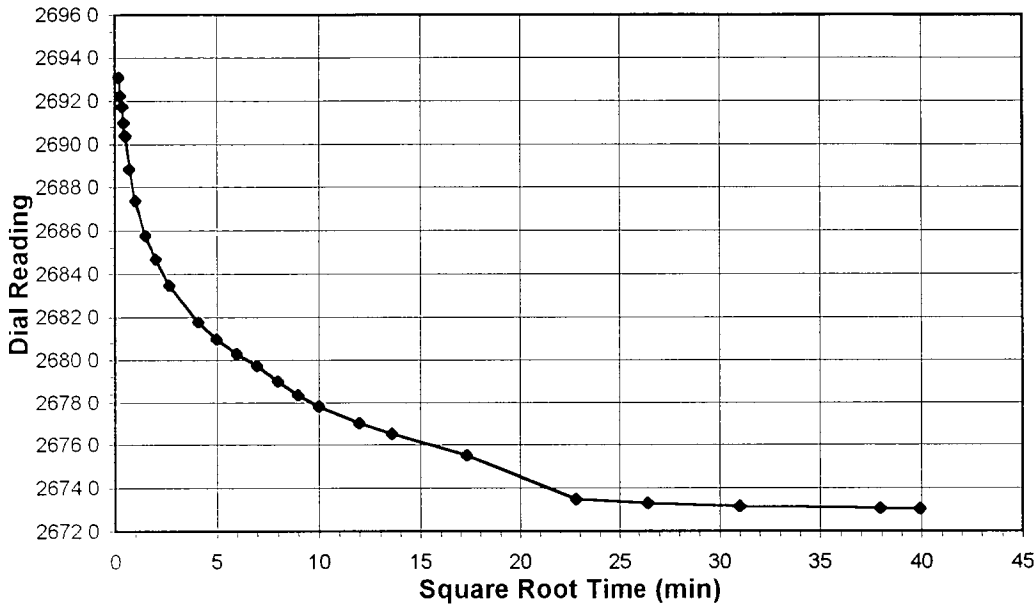


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-03	Sample No.	PPF-40 POST S/T
Lab ID	2004-221-03-09	Visual Description	BROWN STABILIZED MATERIAL

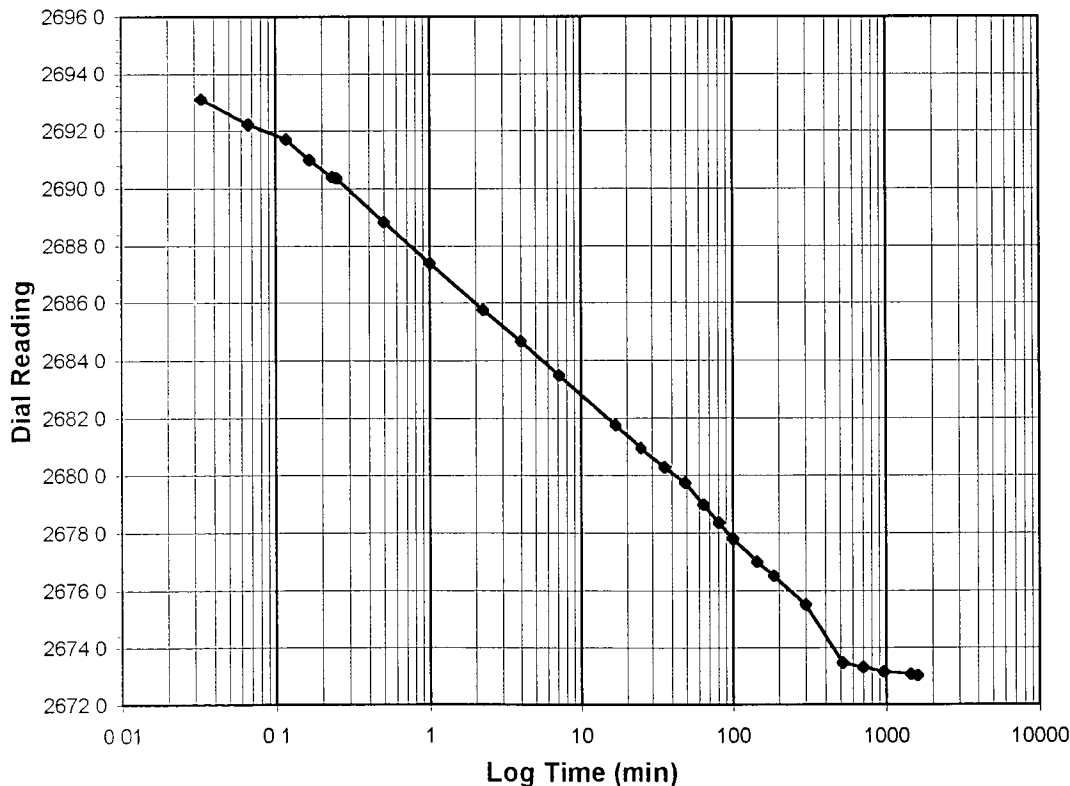
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	8.0-4.0
Final Reading (div)	2673.0
Consolidometer No.	4
1 Division (in)	0.0001

Start Date	10/29/04
Start Time	6:23:41

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>2702.4</b>
0.03	2693.1
0.07	2692.2
0.12	2691.7
0.17	2691.0
0.23	2690.4
0.25	2690.4
0.50	2688.8
1.00	2687.4
2.25	2685.8
4.00	2684.7
7.12	2683.5
16.83	2681.8
25.00	2681.0
36.00	2680.3
49.00	2679.7
64.00	2679.0
81.00	2678.4
100.00	2677.8
144.00	2677.0
184.32	2676.5
300.00	2675.5
520.00	2673.5
700.00	2673.3
960.00	2673.2
1440.00	2673.1
1594.70	2673.0



Tested By **TM** Date **10/29/04** Checked By **GU** Date **11/10/04**

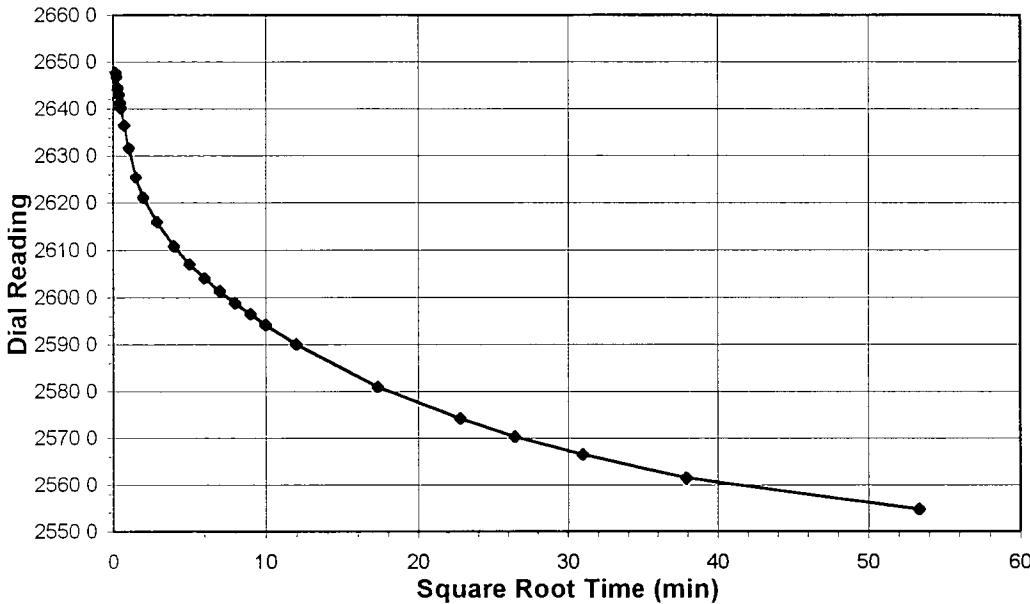


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

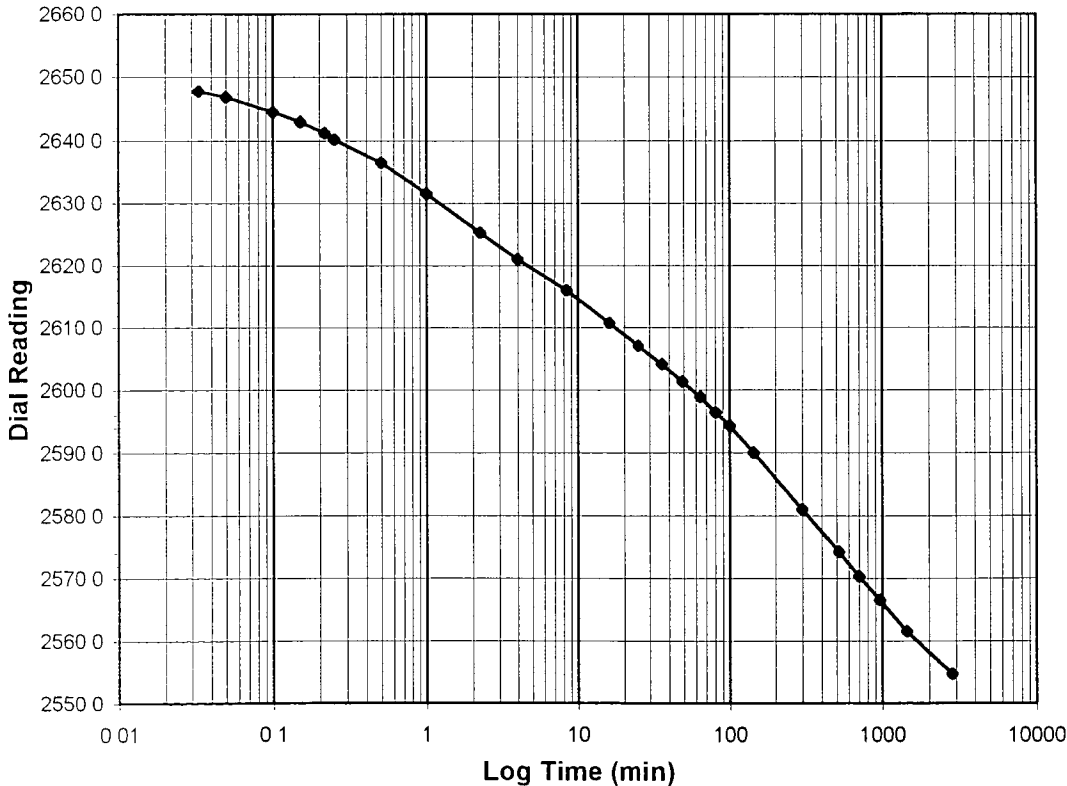
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PPF-40 POST S/T
Lab ID	2004-221-03-09	Visual Description	BROWN STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



<b>Test Load (tsf)</b>	<b>4.0-1.0</b>
<b>Final Reading (div)</b>	<b>2554.8</b>
Consolidometer No.	4
1 Division (in)	0.0001
<b>Start Date</b>	<b>10/30/04</b>
<b>Start Time</b>	<b>9:13:00</b>

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>2673.0</b>
0.03	2647.7
0.05	2646.8
0.10	2644.5
0.15	2643.0
0.22	2641.2
0.25	2640.2
0.50	2636.5
1.00	2631.6
2.25	2625.4
4.00	2621.0
8.37	2616.0
16.00	2610.8
25.00	2607.0
36.00	2604.1
49.00	2601.3
64.00	2598.8
81.00	2596.4
100.00	2594.2
144.00	2590.0
300.00	2580.9
520.00	2574.2
700.00	2570.3
960.00	2566.5
1440.00	2561.6
2849.92	2554.8



Tested By *TM* Date *10/30/04* Checked By *GU* Date *11/10/04*

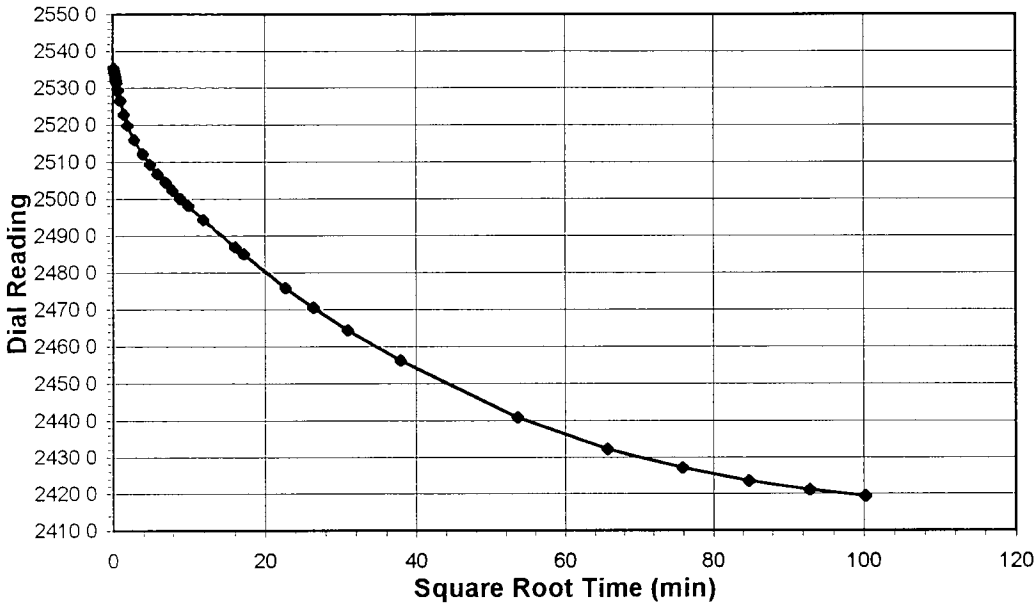


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

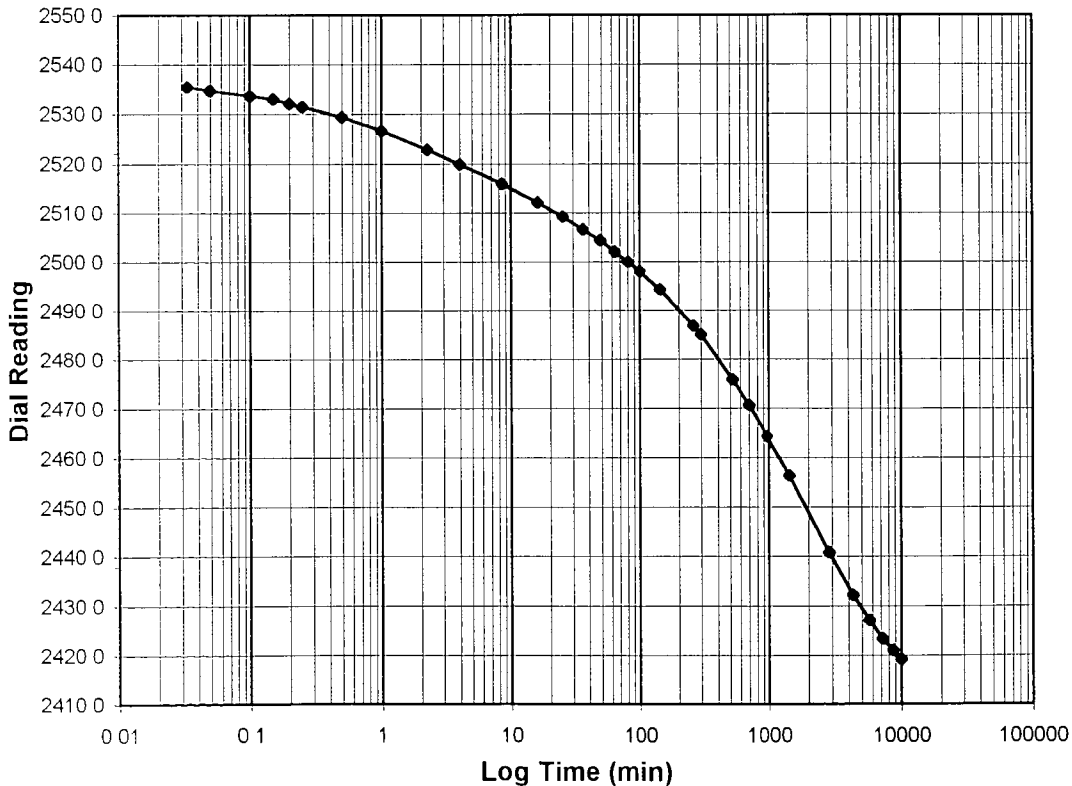
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PPF-40 POST S/T
Lab ID	2004-221-03-09	Visual Description	BROWN STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	1.0-0.25
Final Reading (div)	2419.3
Consolidometer No.	4
1 Division (in)	0.0001
Start Date	11/1/04
Start Time	8:58:55

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>2554.8</b>
0.03	2535.4
0.05	2534.7
0.10	2533.7
0.15	2532.9
0.20	2532.1
0.25	2531.5
0.50	2529.3
1.00	2526.5
2.25	2522.9
4.00	2519.8
8.52	2515.9
16.00	2512.2
25.02	2509.3
36.00	2506.7
49.02	2504.4
64.00	2502.1
81.00	2500.0
100.00	2498.1
144.00	2494.3
262.07	2486.9
300.00	2485.0
520.00	2475.8
700.00	2470.6
960.00	2464.3
1440.00	2456.3
2880.00	2440.8
4320.00	2432.3
5760.00	2427.1
7200.00	2423.4
8640.00	2421.0
10050.02	2419.3



Tested By *TM* Date *11/1/04* Checked By *GU* Date *11/10/04*



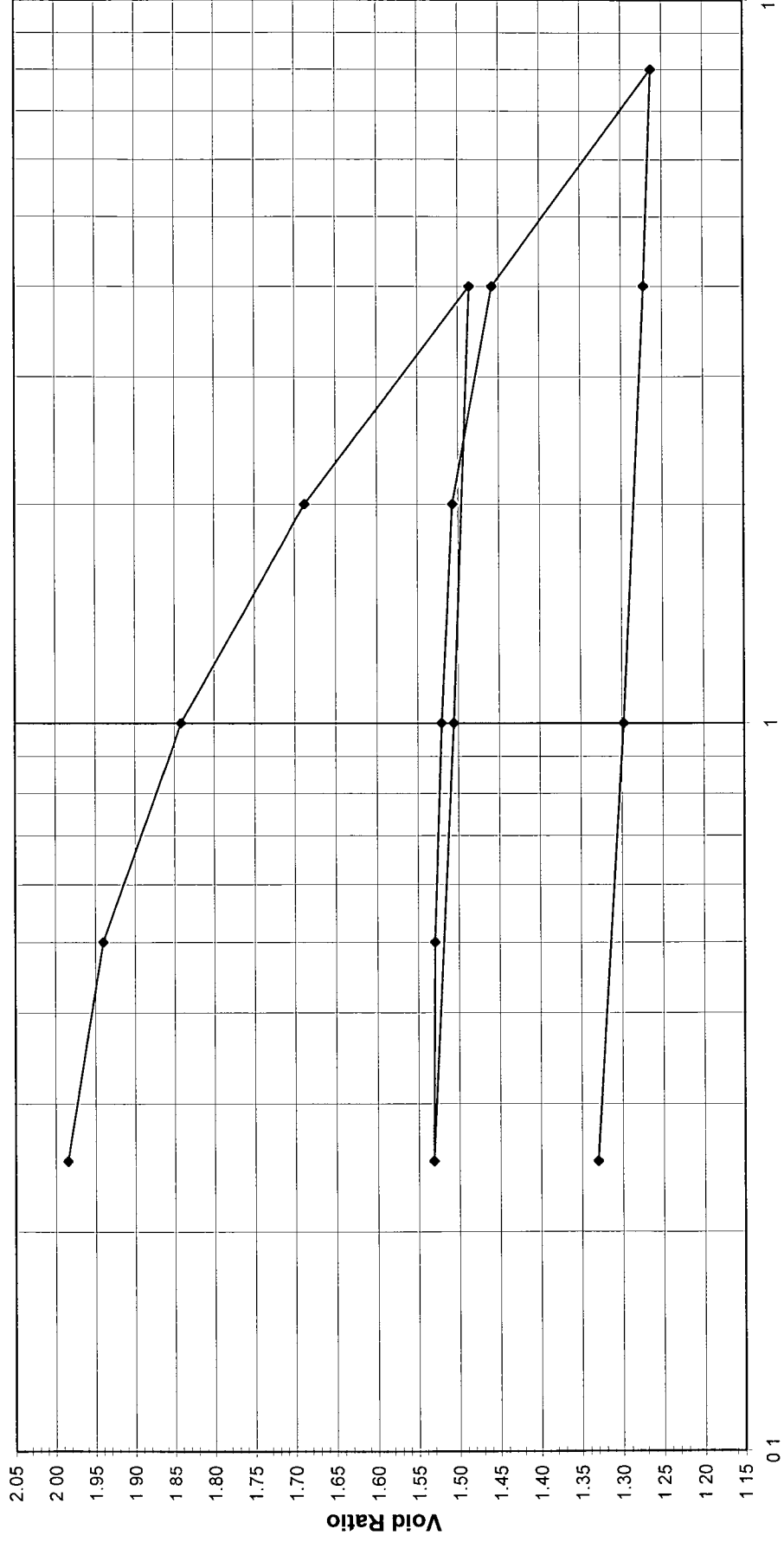


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 / AASHTO T216-03 (SOP-S24)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Reference	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PFP-47 POST S/T
Lab ID	2004-221-03-10	Visual Description	BROWN STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Log P (tsf)

10

1

0.1

Tested By TM Date 10/8/04 Approved By DB Date 11/10/04



# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 / AASHTO T216-03 (SOP-S24)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Reference	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PPF-47 POST S/T
Lab ID	2004-221-03-10	Visual Description	BROWN STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED

**Consolidometer No.** 1

**1 Division** = 0.0001 (in)

## Sample Properties

<i>Water Content</i>			
Tare Number	444	<b>Initial</b>	<b>Final</b>
Wt. Tare & VS (gm)	126.03		40
Wt. Tare & DS (gm)	116.18		179.94
Wt. Water (gm)	9.85		154.47
Wt. Tare (gm)	99.84		25.47
Wt. DS (gm)	16.34		101.55
Water Content (%)	60.28		52.92
			48.13

## Sample Parameters

Sample Diameter (in)	2.5	2.5
Sample Height (in)	0.75	0.572
Sample Volume (cc)	60.33	46.04
Wt. Wet Sample + Ring (gm)	161.81	155.33
Wt. of Ring (gm)	76.31	76.31
Wt. of Wet Sample (gm)	85.50	79.02
Wet Density (pcf)	88.43	107.10
Wet Density (g/cc)	1.42	1.72
Water Content (%)	60.28	48.13
Wt. of Dry Sample (gm)	53.34	53.34
Dry Density (pcf)	55.17	72.30
Dry Density (g/cc)	0.88	1.16
Void Ratio	2.0536	1.3303
Saturation (%)	79.26	97.68
Specific Gravity	2.70	Assumed

## Test Data Summary

Applied Pressure (tsf)	Final Reading (div)	Machine Deflection (div)	Corrected Reading (div)	Height of Sample (mm)	Volume (cc)	Dry Density (g/cc)	Void Ratio
Seating	0	0	0	19.050	60.330	0.88420	2.05361
0.25	178.5	8.9	169.6	18.619	58.965	0.90466	1.98454
0.5	295.2	15.8	279.4	18.340	58.083	0.91841	1.93987
1	549.0	26.9	522.1	17.724	56.130	0.95036	1.84103
2	938.2	39.4	898.8	16.767	53.100	1.00459	1.68767
4	1449.7	54.3	1395.4	15.506	49.105	1.08631	1.48548
1	1381.2	34.8	1346.4	15.630	49.500	1.07766	1.50544
0.25	1300.3	17.9	1282.4	15.793	50.014	1.06657	1.53147
0.5	1309.5	21.8	1287.7	15.779	49.972	1.06747	1.52934
1	1338.5	29.5	1309.0	15.725	49.800	1.07115	1.52065
2	1385.2	41.8	1343.4	15.638	49.524	1.07713	1.50666
4	1517.9	54.4	1463.6	15.333	48.557	1.09858	1.45773
8	2011.7	69.8	1941.9	14.118	44.709	1.19312	1.26297
4	1982.0	63.0	1919.0	14.176	44.893	1.18823	1.27229
1	1896.4	40.1	1856.3	14.335	45.398	1.17503	1.29782
0.25	1800.1	23.5	1776.6	14.538	46.039	1.15866	1.33029

Tested By TM Date 10/8/04 Input Checked By GU Date 11/9/04

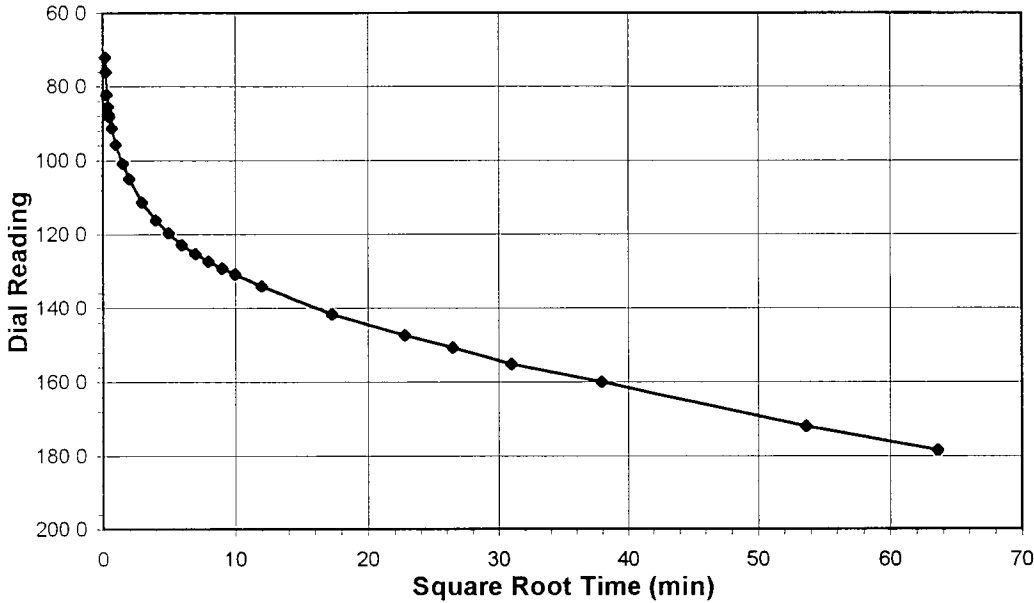


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

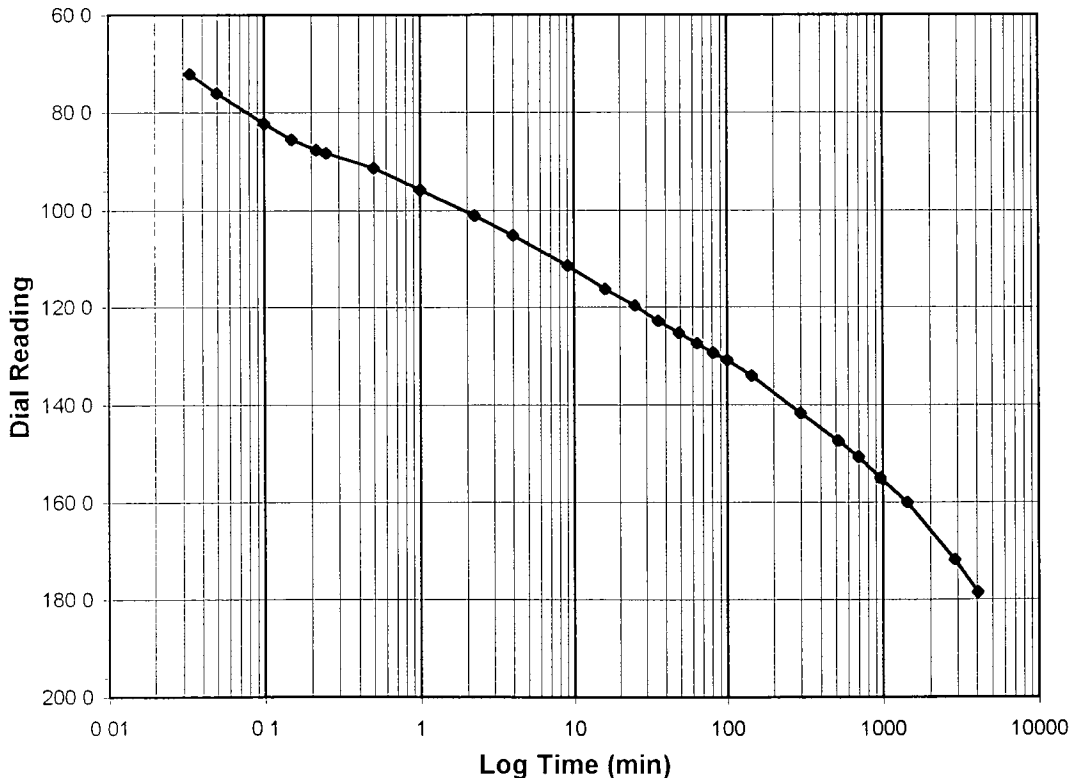
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PFP-47 POST S/T
Lab ID	2004-221-03-10	Visual Description	BROWN STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0-0.25
Final Reading (div)	178.5
Consolidometer No.	1
1 Division (in)	0.0001
Start Date	10/8/04
Start Time	15:19:38

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>0.0</b>
0.03	72.1
0.05	76.1
0.10	82.2
0.15	85.5
0.22	87.6
0.25	88.3
0.50	91.3
1.00	95.8
2.25	101.0
4.00	105.1
9.07	111.4
16.00	116.3
25.00	119.7
36.00	122.9
49.00	125.4
64.00	127.4
81.00	129.4
100.00	130.8
144.00	134.2
300.00	141.7
520.00	147.4
700.00	150.7
960.00	155.0
1440.00	160.0
2880.00	171.9
4050.28	178.5



Tested By TM Date 10/8/04 Checked By GO Date 11/9/04

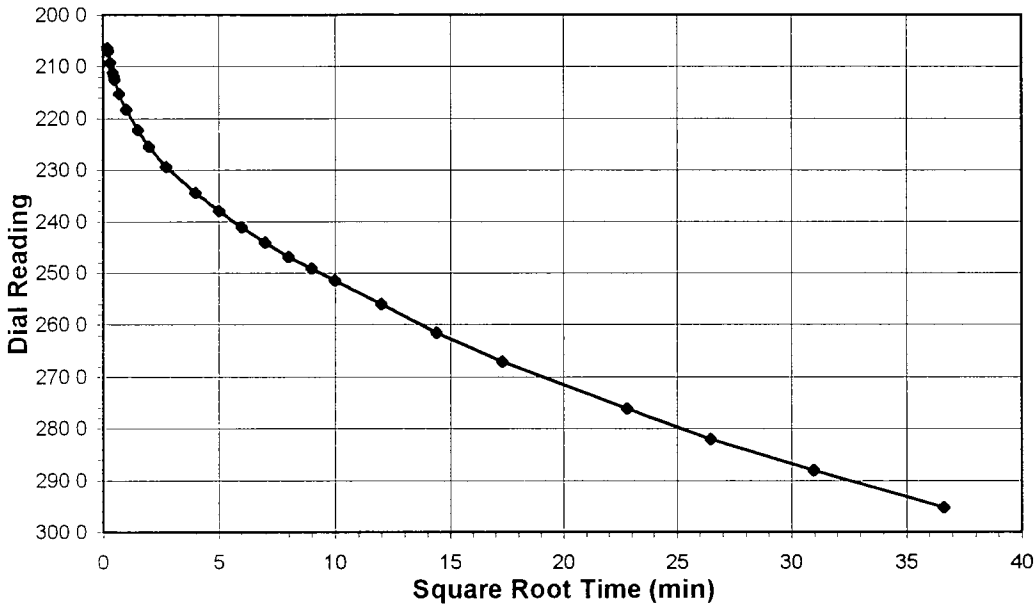


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

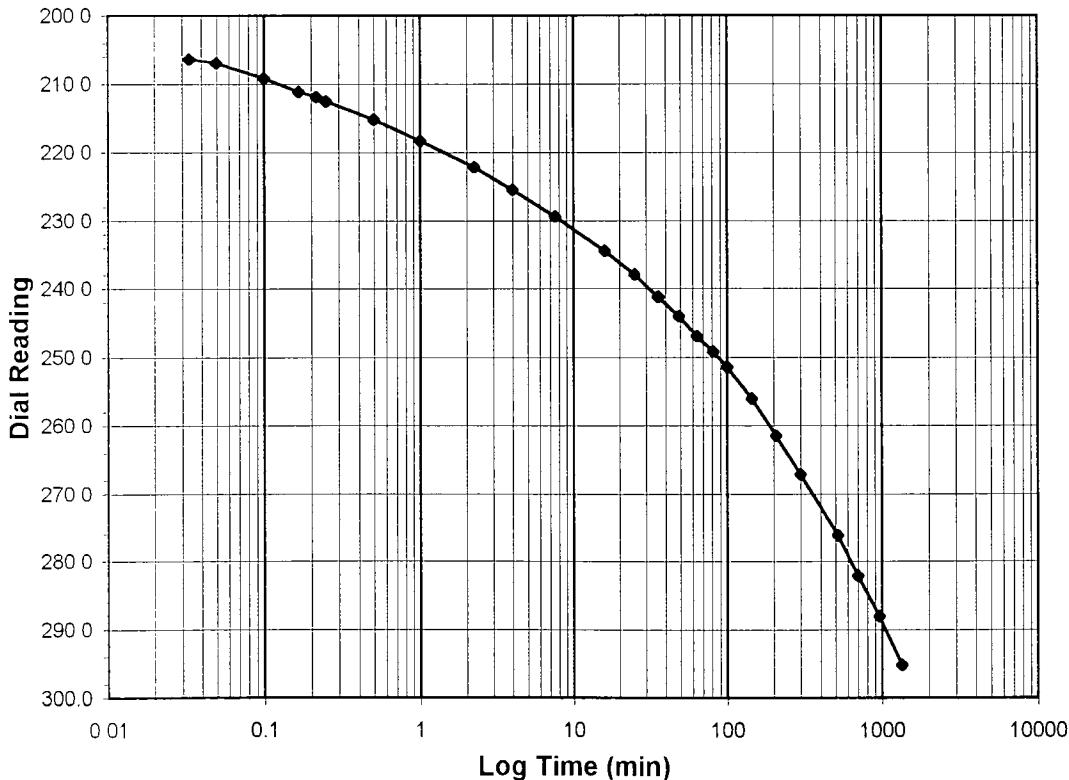
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PFP-47 POST S/T
Lab ID	2004-221-03-10	Visual Description	BROWN STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.25-0.5
Final Reading (div)	295.2
Consolidometer No.	1
1 Division (in)	0.0001
Start Date	10/11/04
Start Time	11:03:32

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>178.5</b>
0.03	206.4
0.05	207.0
0.10	209.2
0.17	211.2
0.22	211.9
0.25	212.5
0.50	215.2
1.00	218.3
2.25	222.2
4.00	225.5
7.57	229.4
16.00	234.5
25.00	238.0
36.00	241.2
49.00	244.1
64.00	247.0
81.00	249.2
100.00	251.5
144.00	256.1
207.12	261.5
300.00	267.1
520.00	276.2
700.00	282.1
960.00	288.1
1341.50	295.2



Tested By *TM* Date *10/11/04* Checked By *GU* Date *11/9/04*

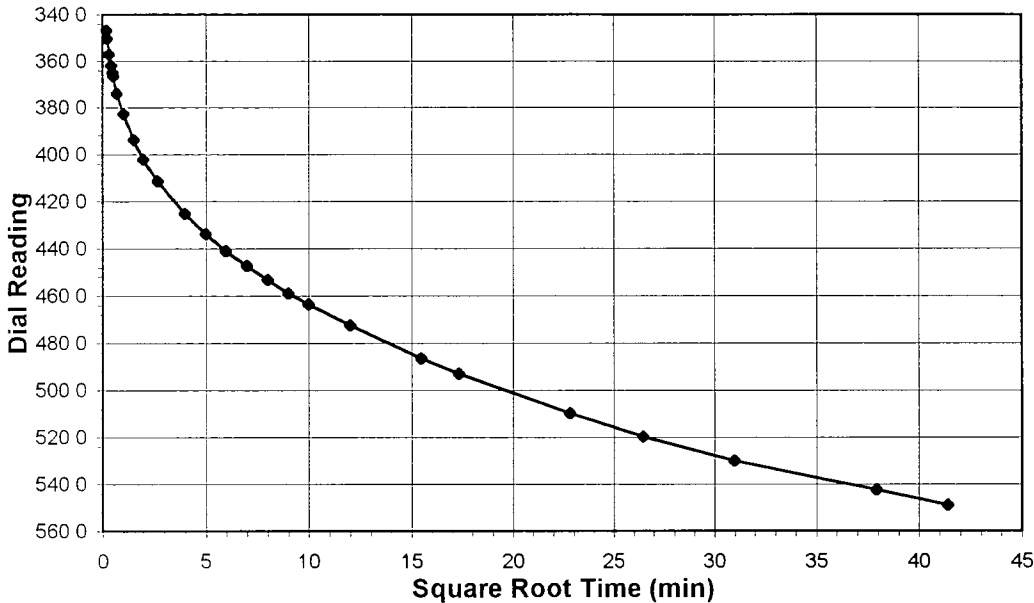


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

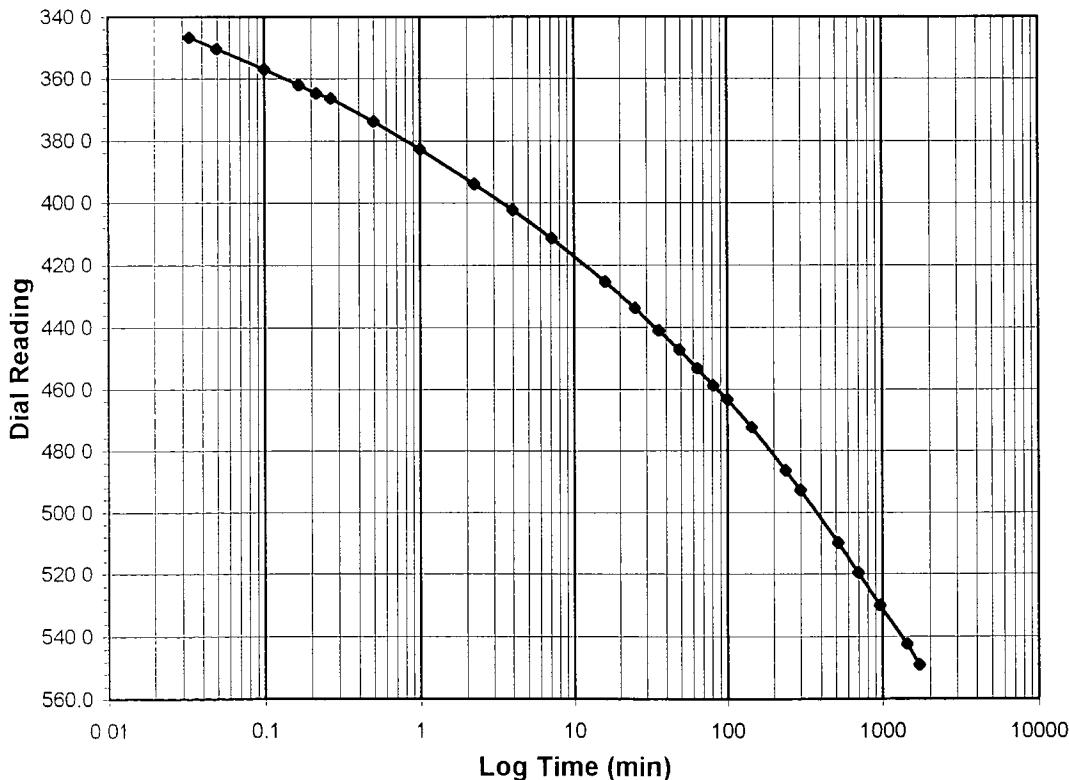
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PPF-47 POST S/T
Lab ID	2004-221-03-10	Visual Description	BROWN STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.5-1.0
Final Reading (div)	549.0
Consolidometer No.	1
1 Division (in)	0.0001
Start Date	10/12/04
Start Time	9:37:53

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>295.2</b>
0.03	346.6
0.05	350.4
0.10	357.0
0.17	362.0
0.22	364.8
0.27	366.4
0.50	373.9
1.00	382.8
2.25	393.9
4.00	402.2
7.15	411.2
16.00	425.3
25.00	433.7
36.00	441.0
49.00	447.3
64.00	453.2
81.00	458.9
100.00	463.4
144.00	472.4
239.45	486.4
300.00	492.9
520.00	509.9
700.00	519.6
960.00	530.0
1440.00	542.4
1715.00	549.0



Tested By *TM* Date *10/12/04* Checked By *GC* Date *11/9/04*

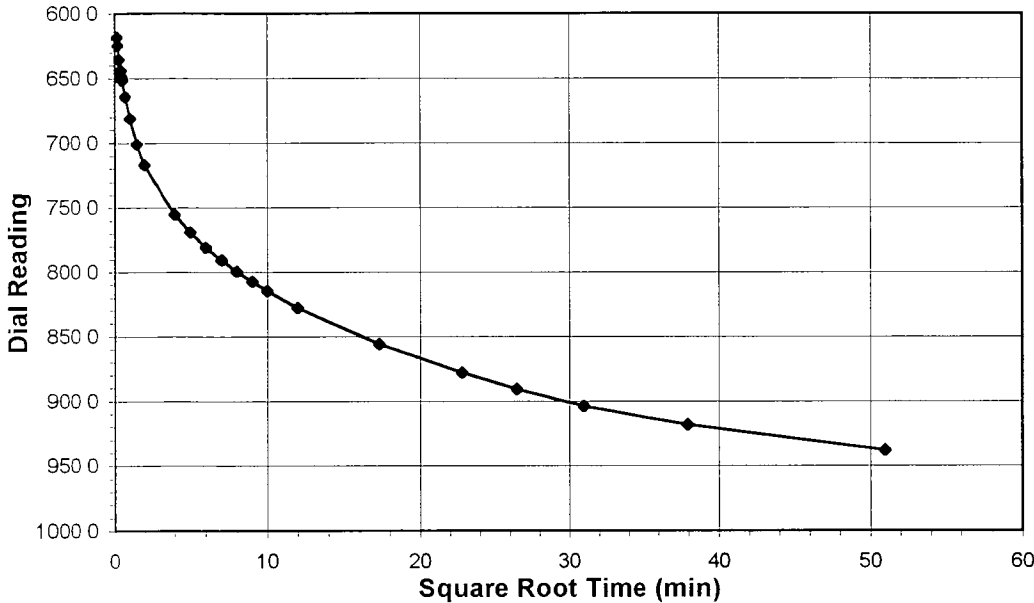


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

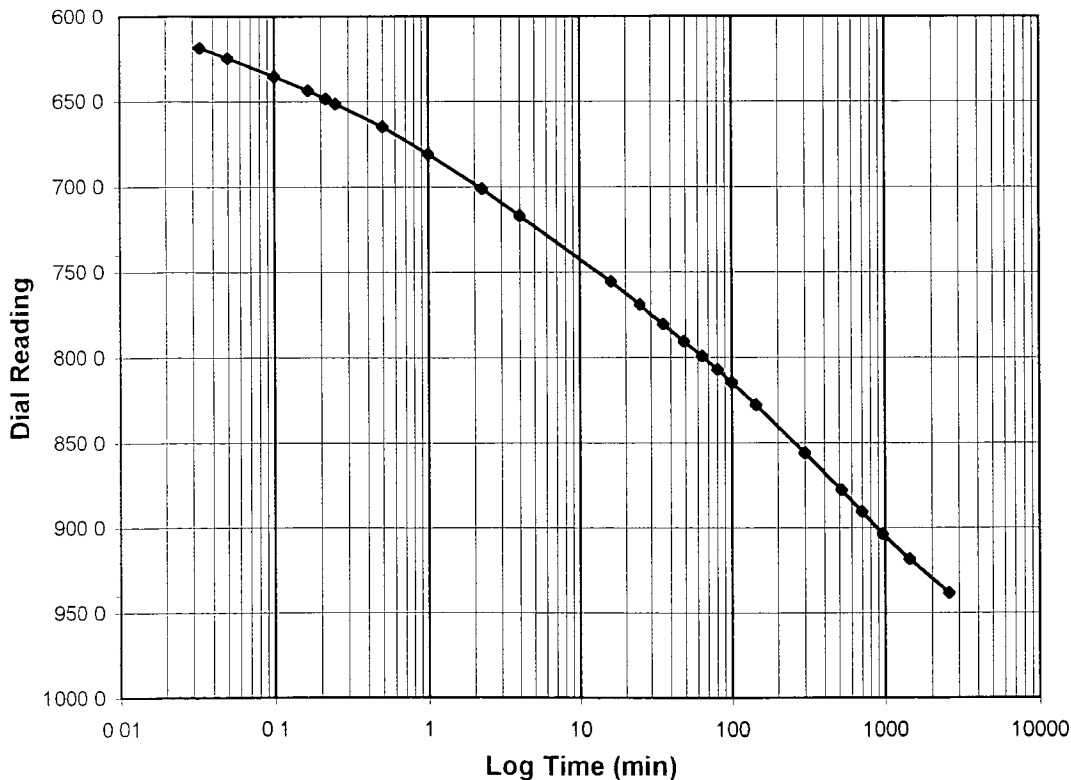
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-03	Sample No.	PFP-47 POST S/T
Lab ID	2004-221-03-10	Visual Description	BROWN STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	1.0-2.0
Final Reading (div)	938.2
Consolidometer No.	1
1 Division (in)	0.0001
Start Date	10/13/04
Start Time	15:03:41

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>549.0</b>
0.03	618.3
0.05	624.6
0.10	635.5
0.17	643.6
0.22	648.6
0.25	651.5
0.50	664.6
1.00	680.9
2.25	701.2
4.00	716.8
16.00	755.4
25.00	769.0
36.00	780.8
49.00	790.8
64.00	799.5
81.00	807.5
100.00	814.8
144.00	828.0
300.00	856.0
520.00	878.0
700.00	890.7
960.00	904.0
1440.00	918.4
2600.48	938.2



Tested By *TM* Date *10/13/04* Checked By *GU* Date *11/19/04*

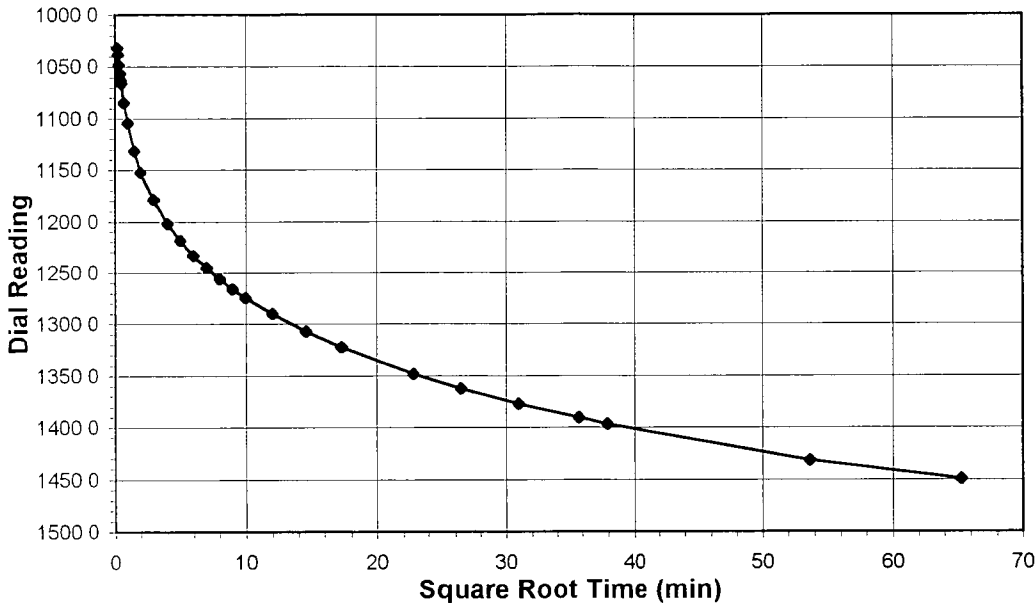


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

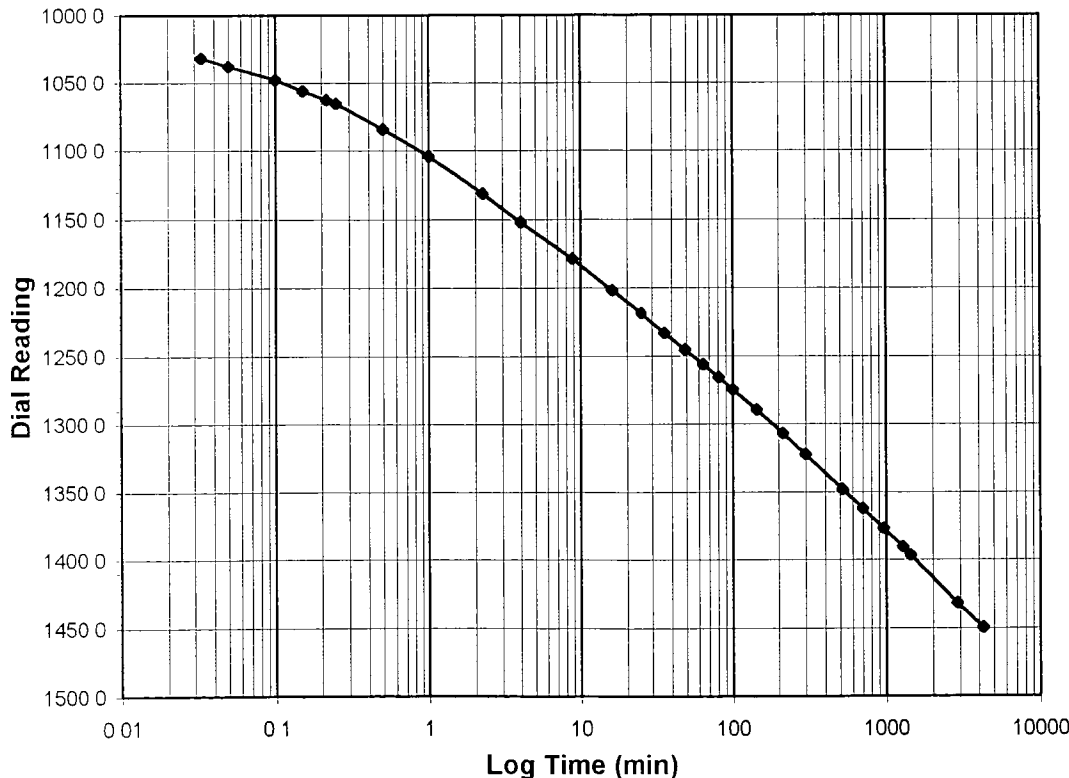
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-03	Sample No.	PFP-47 POST S/T
Lab ID	2004-221-03-10	Visual Description	BROWN STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	2.0-4.0
Final Reading (div)	1449.7
Consolidometer No.	1
1 Division (in)	0.0001
Start Date	10/15/04
Start Time	10:42:28

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>938.2</b>
0.03	1032.0
0.05	1037.8
0.10	1048.0
0.15	1056.4
0.22	1062.9
0.25	1065.8
0.50	1084.5
1.00	1104.2
2.25	1131.6
4.00	1152.1
8.78	1178.7
16.00	1202.1
25.00	1218.9
36.00	1233.1
49.00	1245.4
64.00	1256.2
81.00	1265.8
100.00	1274.6
144.00	1289.8
213.05	1306.9
300.00	1322.5
520.00	1348.3
700.00	1362.3
960.00	1377.1
1278.83	1390.6
1440.00	1396.7
2880.00	1432.1
4264.62	1449.7



Tested By *TM* Date *10/15/04* Checked By *GU* Date *11/9/04*

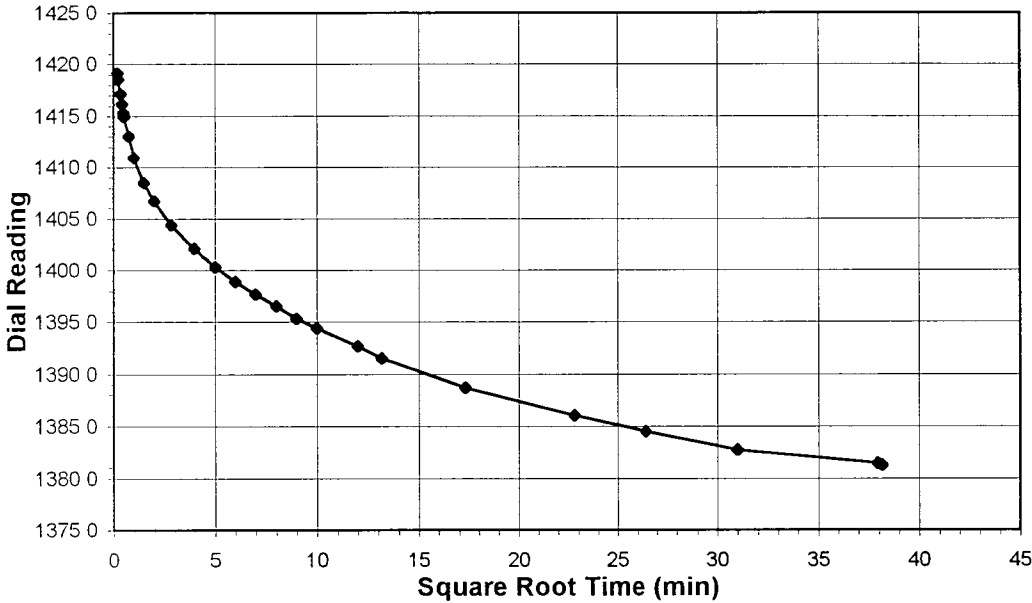


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

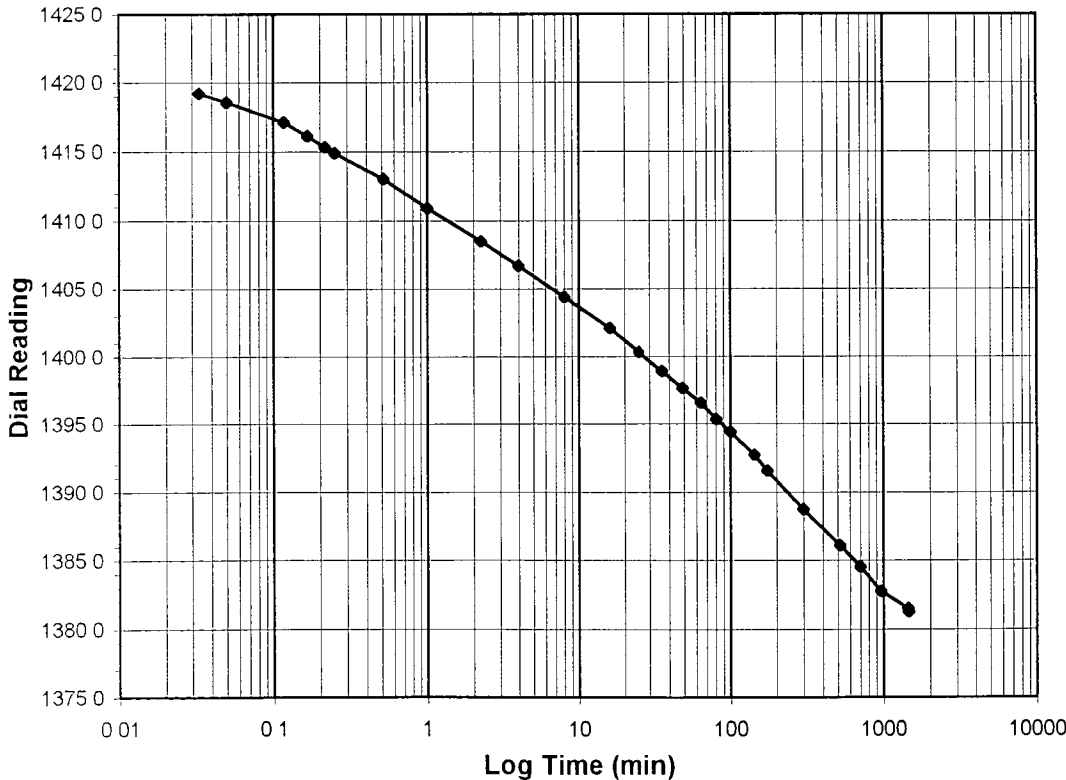
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PF-47 POST S/T
Lab ID	2004-221-03-10	Visual Description	BROWN STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	4.0-1.0
Final Reading (div)	1381.2
Consolidometer No.	1
1 Division (in)	0.0001
Start Date	10/18/04
Start Time	10:00:42

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>1449.7</b>
0.03	1419.2
0.05	1418.5
0.12	1417.1
0.17	1416.1
0.22	1415.3
0.25	1414.9
0.52	1413.0
1.00	1410.9
2.25	1408.5
4.00	1406.7
8.03	1404.4
16.00	1402.1
25.00	1400.3
36.00	1398.9
49.00	1397.7
64.00	1396.5
81.00	1395.3
100.00	1394.4
144.00	1392.7
173.51	1391.5
300.00	1388.7
520.00	1386.1
700.00	1384.5
960.00	1382.8
1440.00	1381.5
1456.22	1381.2



Tested By TM Date 10/18/04 Checked By GO Date 11/9/04



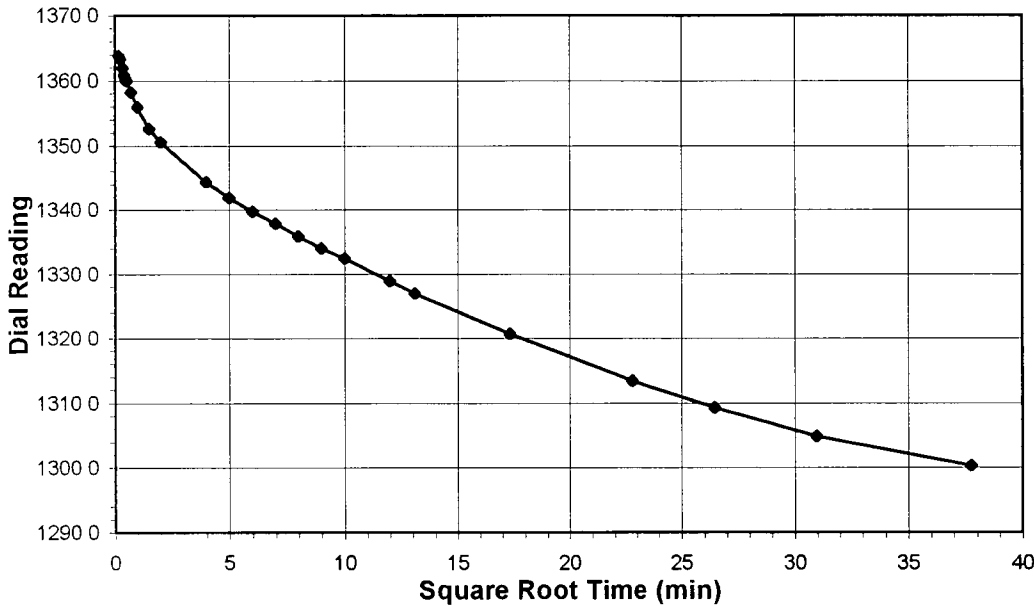


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	FFP-47 POST S/T
Lab ID	2004-221-03-10	Visual Description	BROWN STABILIZED MATERIAL

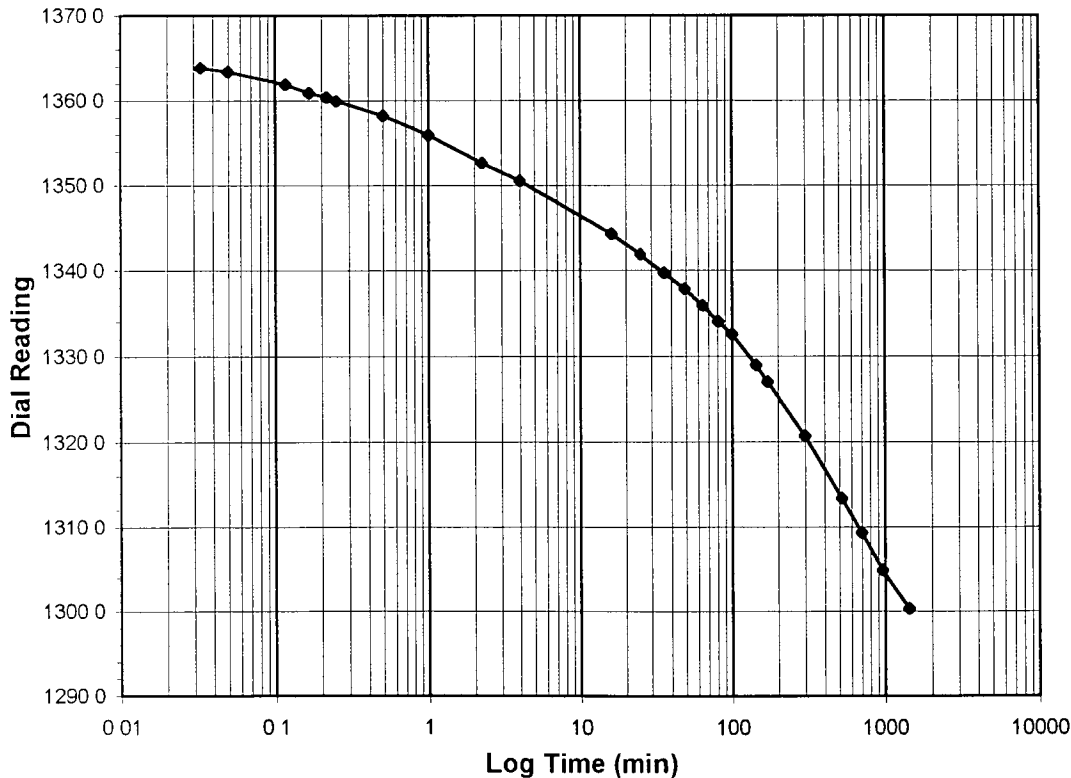
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	1.0-0.25
Final Reading (div)	1300.3
Consolidometer No.	1
1 Division (in)	0.0001

Start Date	10/19/04
Start Time	10:29:42

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>1381.2</b>
0.03	1363.8
0.05	1363.4
0.12	1361.9
0.17	1360.9
0.22	1360.4
0.25	1359.9
0.50	1358.2
1.00	1356.0
2.25	1352.6
4.00	1350.6
16.00	1344.3
25.00	1341.9
36.00	1339.7
49.00	1337.8
64.00	1335.9
81.00	1334.0
100.00	1332.5
144.00	1328.9
171.73	1327.0
300.00	1320.6
520.00	1313.4
700.00	1309.3
960.00	1304.8
1424.79	1300.3



Tested By *TM* Date *10/19/04* Checked By *GU* Date *11/10/04*

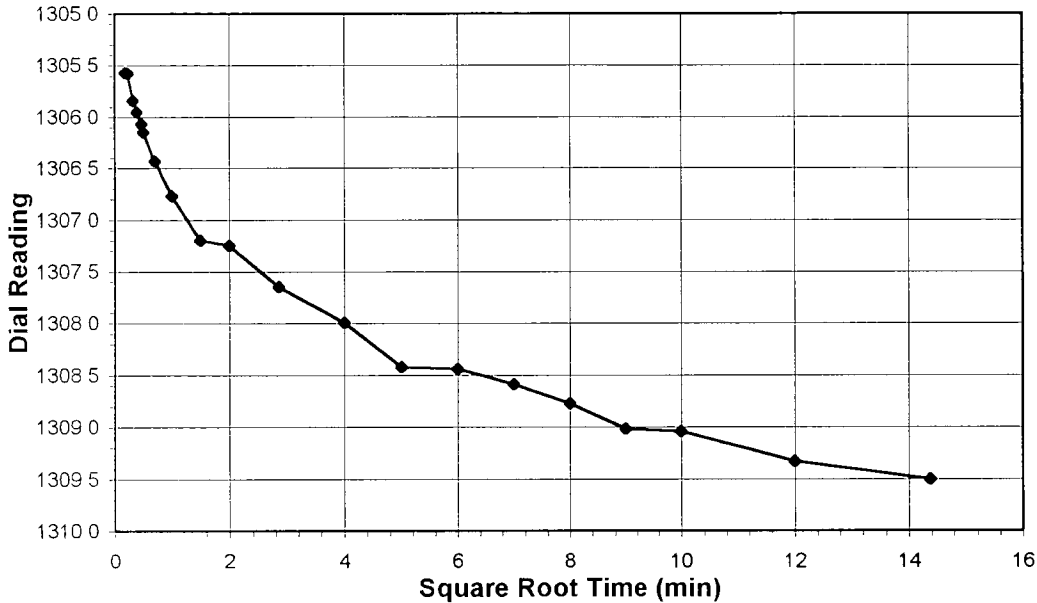


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

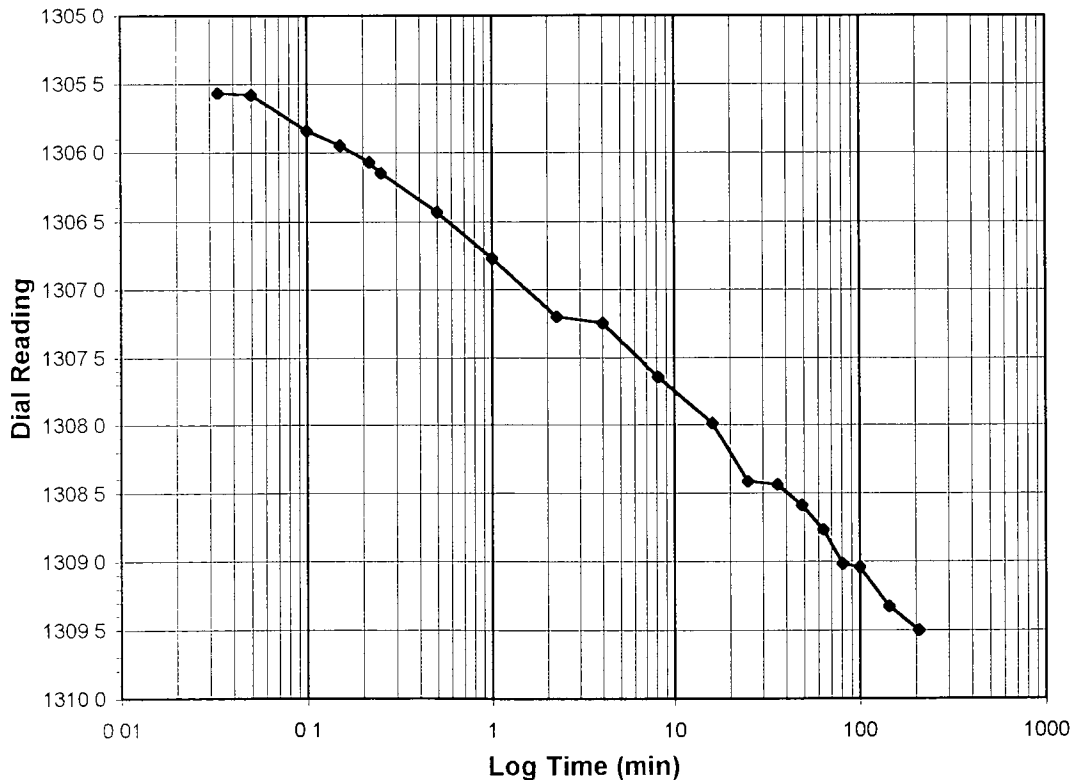
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-03	Sample No.	PFP-47 POST S/T
Lab ID	2004-221-03-10	Visual Description	BROWN STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.25-0.5
Final Reading (div)	1309.5
Consolidometer No.	1
1 Division (in)	0.0001
Start Date	10/20/04
Start Time	10:24:16

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>1300.3</b>
0.03	1305.6
0.05	1305.6
0.10	1305.8
0.15	1306.0
0.22	1306.1
0.25	1306.2
0.50	1306.4
1.00	1306.8
2.25	1307.2
4.00	1307.3
8.18	1307.7
16.00	1308.0
25.00	1308.4
36.00	1308.4
49.00	1308.6
64.00	1308.8
81.00	1309.0
100.00	1309.0
144.00	1309.3
206.75	1309.5



Tested By *TM* Date *10/20/04* Checked By *GO* Date *11/9/04*

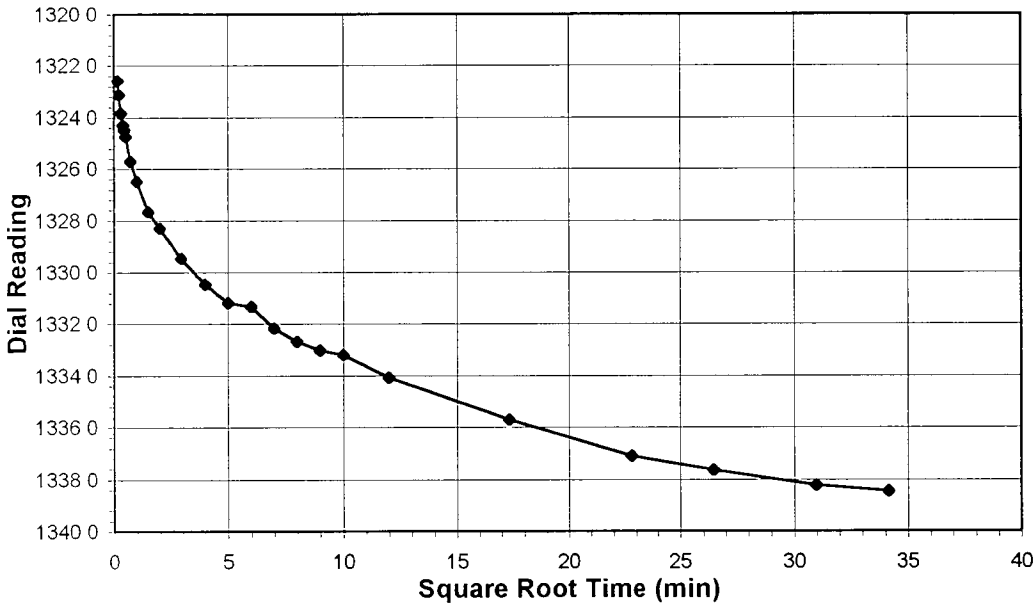


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

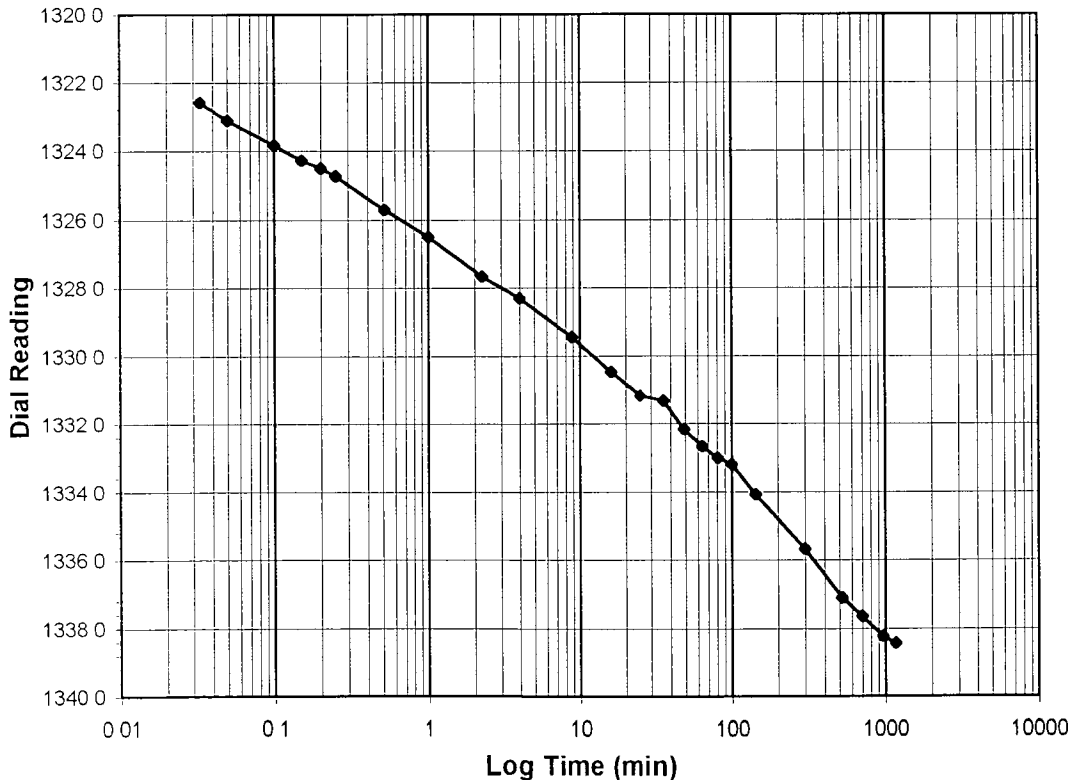
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PFP-47 POST S/T
Lab ID	2004-221-03-10	Visual Description	BROWN STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.5-1.0
Final Reading (div)	1338.5
Consolidometer No.	1
1 Division (in)	0.0001
Start Date	10/20/04
Start Time	14:00:57

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>1309.5</b>
0.03	1322.6
0.05	1323.1
0.10	1323.8
0.15	1324.3
0.20	1324.5
0.25	1324.7
0.52	1325.7
1.00	1326.5
2.25	1327.7
4.00	1328.3
8.78	1329.5
16.00	1330.5
25.00	1331.2
36.00	1331.3
49.02	1332.2
64.00	1332.7
81.00	1333.0
100.00	1333.2
144.00	1334.1
300.00	1335.7
520.00	1337.1
700.00	1337.7
960.02	1338.2
1165.82	1338.5



Tested By *TM* Date *10/20/04* Checked By *GU* Date *11/9/04*

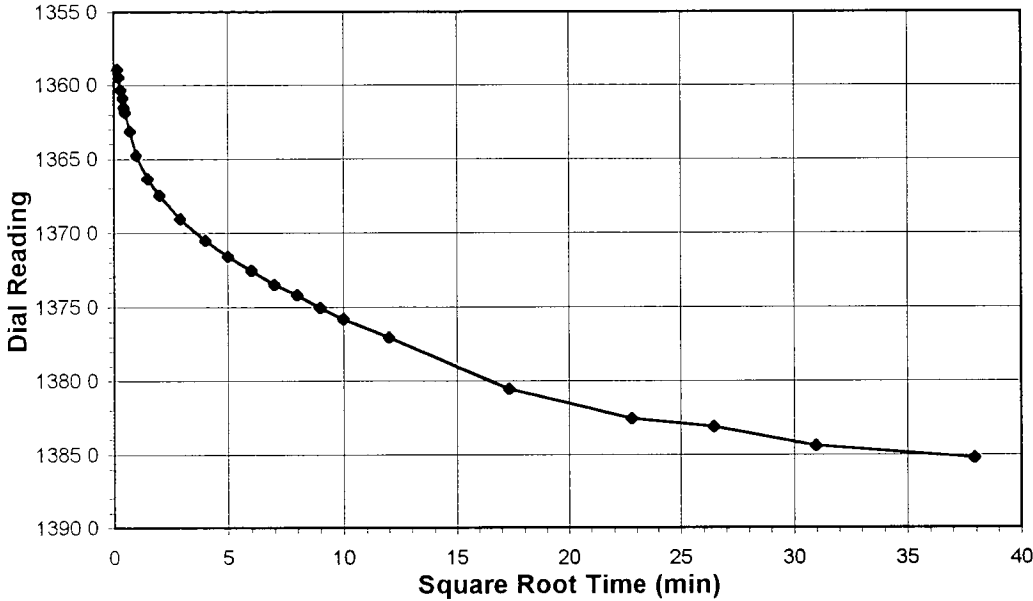


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PPF-47 POST S/T
Lab ID	2004-221-03-10	Visual Description	BROWN STABILIZED MATERIAL

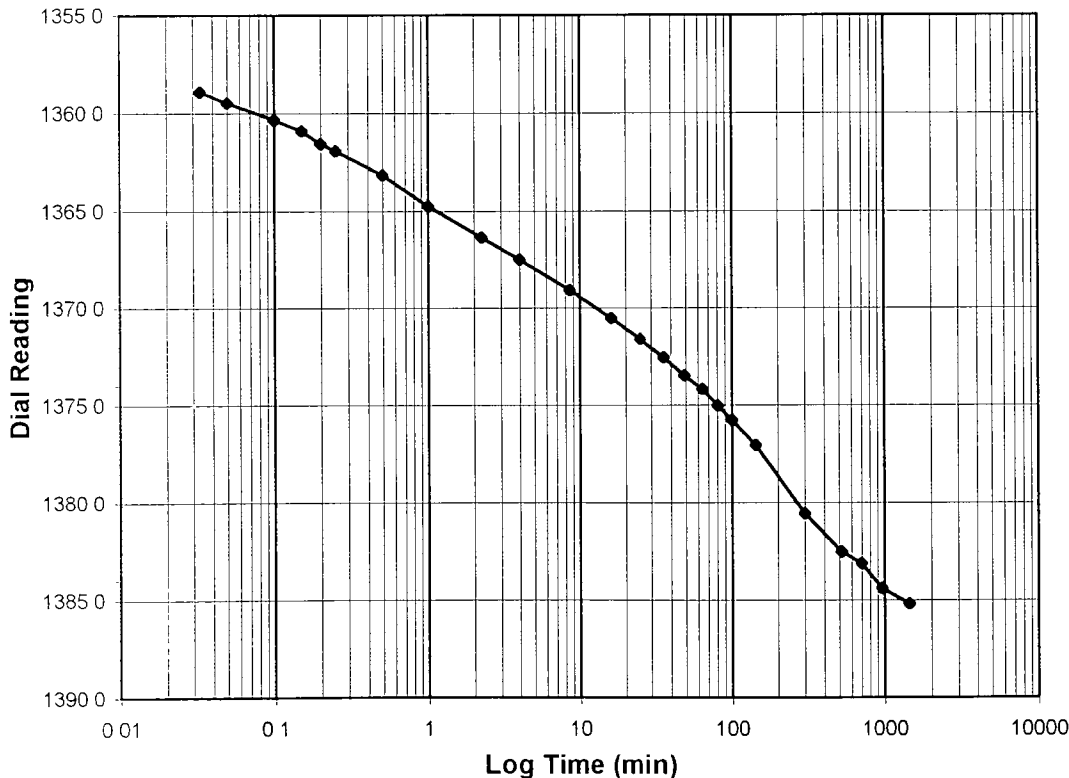
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	1.0-2.0
Final Reading (div)	1385.2
Consolidometer No.	1
1 Division (in)	0.0001

Start Date	10/21/04
Start Time	9:45:02

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>1338.5</b>
0.03	1358.9
0.05	1359.5
0.10	1360.3
0.15	1360.9
0.20	1361.5
0.25	1361.9
0.50	1363.1
1.00	1364.7
2.25	1366.3
4.00	1367.5
8.55	1369.1
16.00	1370.5
25.00	1371.6
36.00	1372.5
49.00	1373.5
64.00	1374.2
81.00	1375.0
100.00	1375.8
144.00	1377.1
300.00	1380.6
520.00	1382.6
700.00	1383.1
960.00	1384.4
1440.00	1385.2



Tested By TM Date 10/21/04 Checked By GU Date 11/9/04

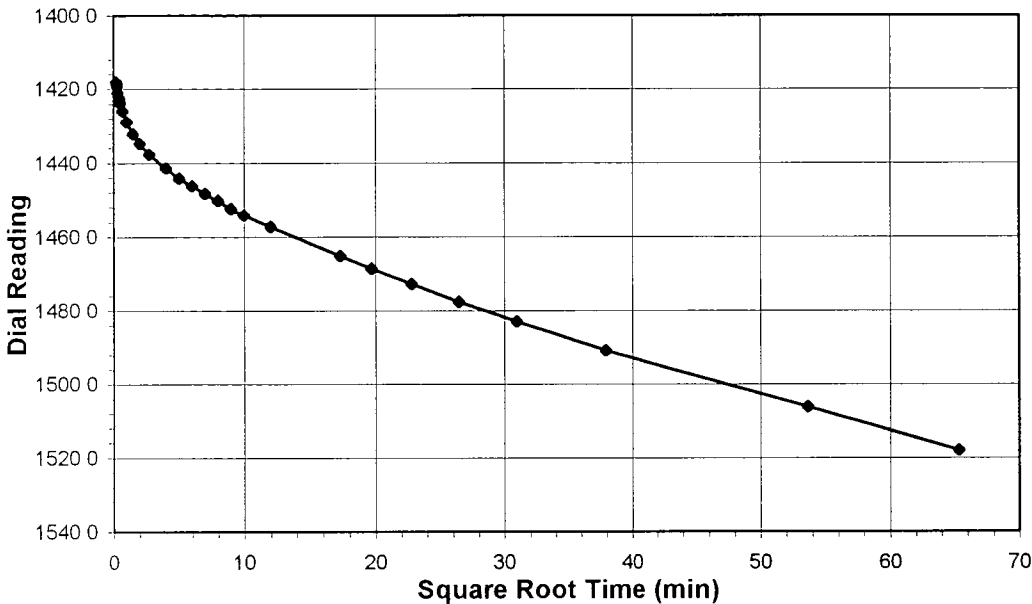


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PFP-47 POST S/T
Lab ID	2004-221-03-10	Visual Description	BROWN STABILIZED MATERIAL

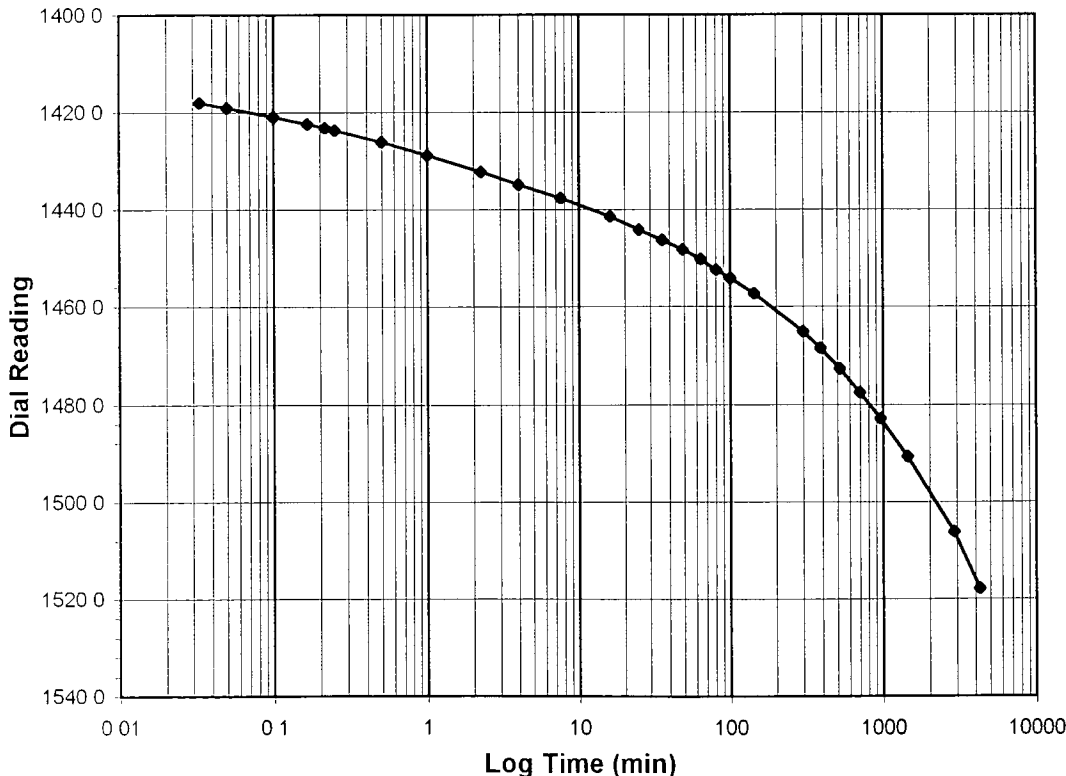
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	2.0-4.0
Final Reading (div)	1517.9
Consolidometer No.	1
1 Division (in)	0.0001

Start Date	10/22/04
Start Time	10:15:05

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>1385.2</b>
0.03	1418.0
0.05	1419.0
0.10	1421.0
0.17	1422.3
0.22	1423.1
0.25	1423.7
0.50	1426.0
1.00	1428.8
2.25	1432.2
4.00	1434.8
7.58	1437.7
16.00	1441.4
25.00	1444.1
36.00	1446.2
49.00	1448.3
64.00	1450.3
81.00	1452.4
100.00	1454.2
144.00	1457.3
300.00	1465.1
389.38	1468.5
520.00	1472.8
700.00	1477.6
960.00	1483.0
1440.00	1490.7
2880.00	1506.2
4267.07	1517.9



Tested By TM Date 10/22/04 Checked By GU Date 11/9/04

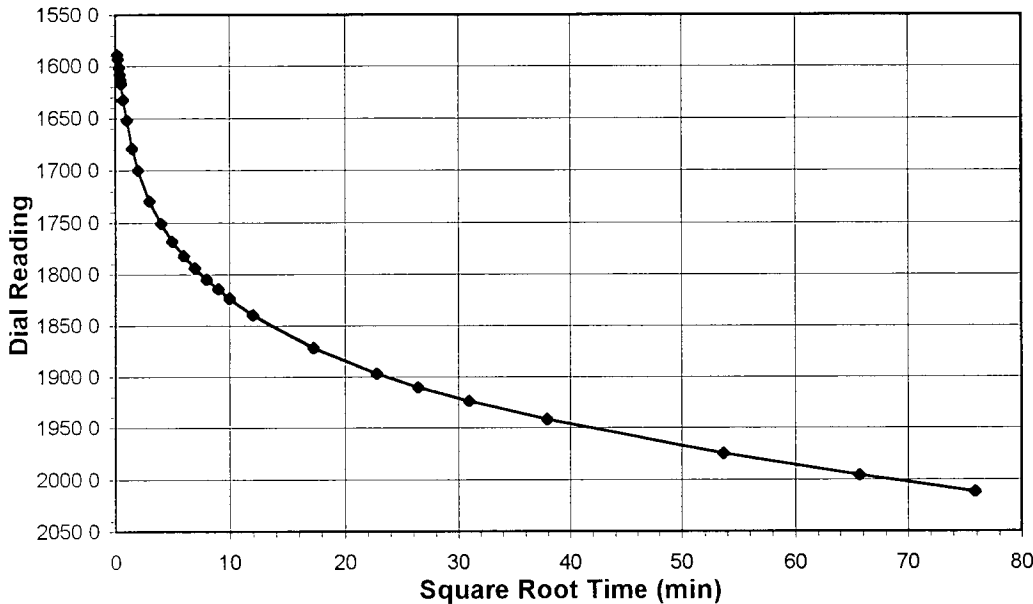


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PFP-47 POST S/T
Lab ID	2004-221-03-10	Visual Description	BROWN STABILIZED MATERIAL

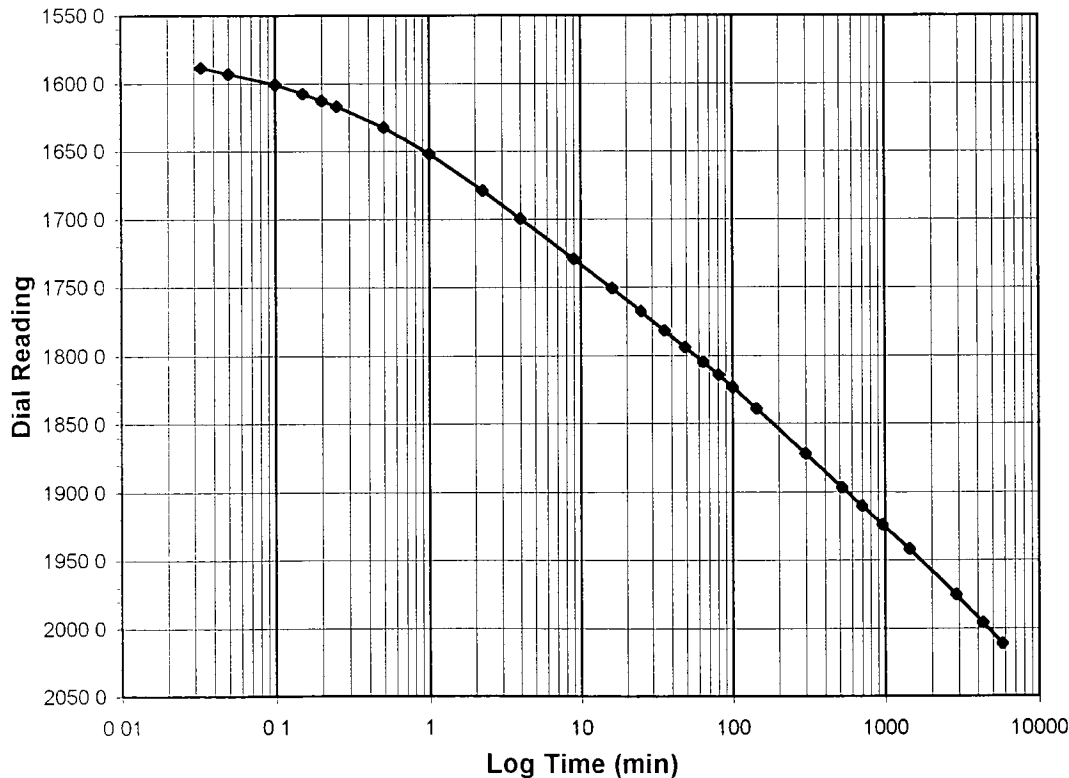
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	4.0-8.0
Final Reading (div)	2011.7
Consolidometer No.	1
1 Division (in)	0.0001

Start Date	10/25/04
Start Time	9:31:14

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>1517.9</b>
0.03	1588.6
0.05	1593.1
0.10	1600.8
0.15	1607.5
0.20	1613.1
0.25	1616.9
0.50	1632.5
1.00	1652.0
2.25	1678.9
4.00	1699.8
9.02	1729.3
16.00	1751.0
25.00	1767.9
36.00	1781.9
49.00	1794.1
64.00	1804.9
81.00	1814.4
100.00	1823.2
144.00	1839.1
300.00	1871.9
520.00	1897.1
700.00	1910.5
960.00	1924.3
1440.00	1942.1
2880.00	1975.3
4320.00	1996.2
5760.00	2011.7



Tested By *TM* Date *10/25/04* Checked By *GU* Date *11/9/14*

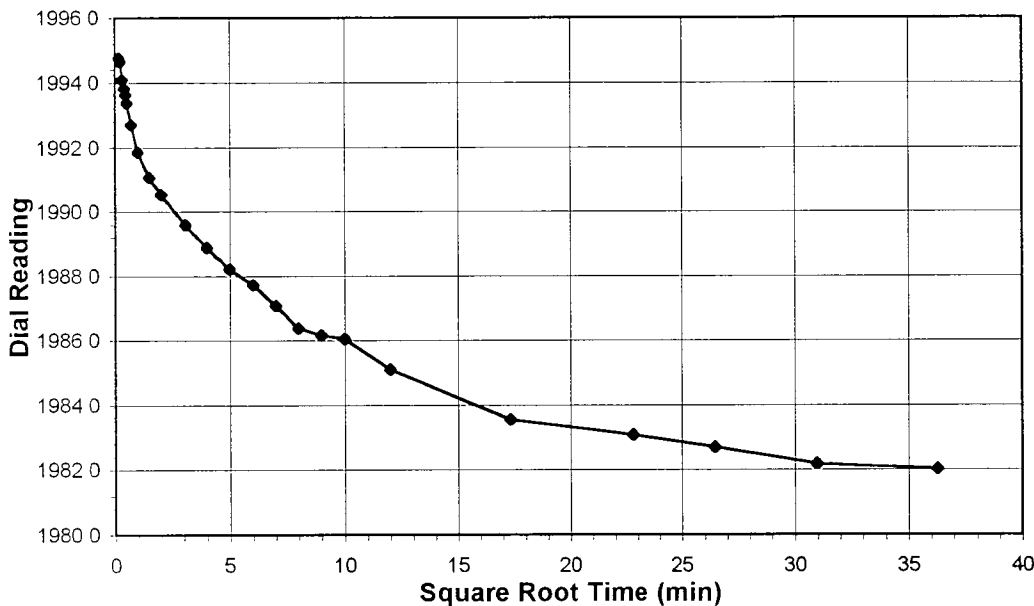


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

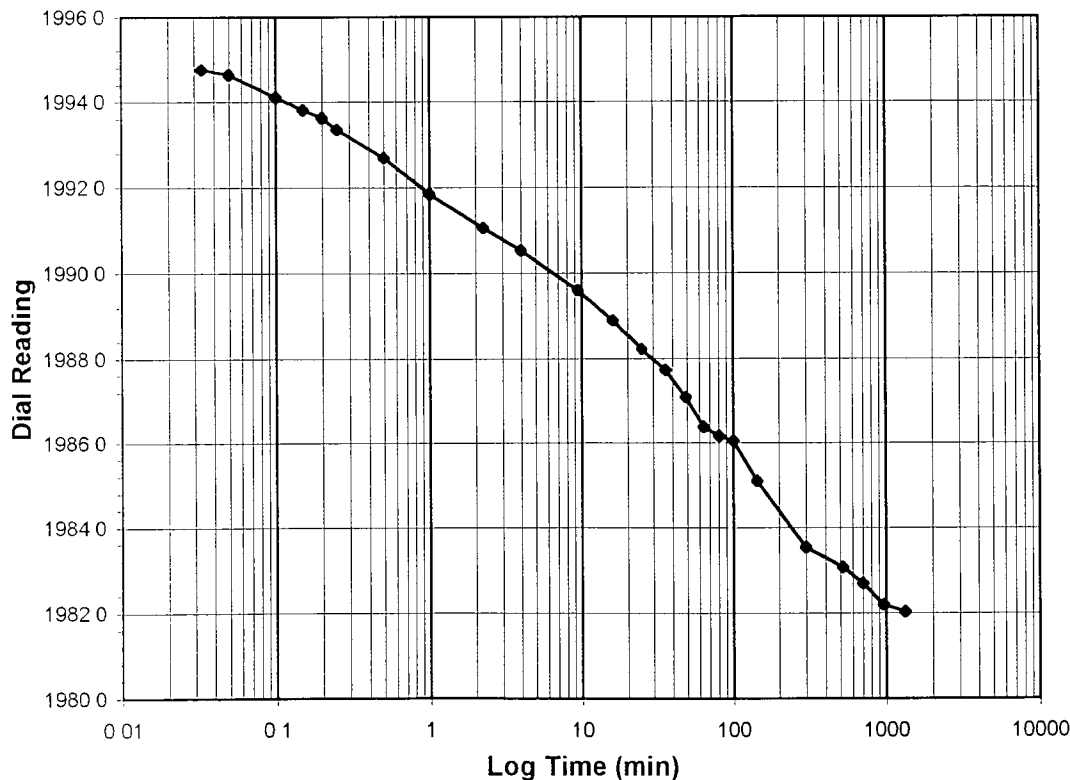
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-03	Sample No.	PFP-47 POST S/T
Lab ID	2004-221-03-10	Visual Description	BROWN STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	8.0-4.0
Final Reading (div)	1982.0
Consolidometer No.	1
1 Division (in)	0.0001
Start Date	10/29/04
Start Time	11:02:21

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>2011.7</b>
0.03	1994.8
0.05	1994.6
0.10	1994.1
0.15	1993.8
0.20	1993.6
0.25	1993.4
0.50	1992.7
1.00	1991.9
2.25	1991.1
4.00	1990.5
9.47	1989.6
16.02	1988.9
25.00	1988.2
36.00	1987.7
49.00	1987.1
64.00	1986.4
81.00	1986.2
100.00	1986.0
144.00	1985.1
300.00	1983.5
520.00	1983.1
700.00	1982.7
960.00	1982.2
1316.03	1982.0



Tested By *TM* Date *10/29/04* Checked By *GU* Date *11/9/04*

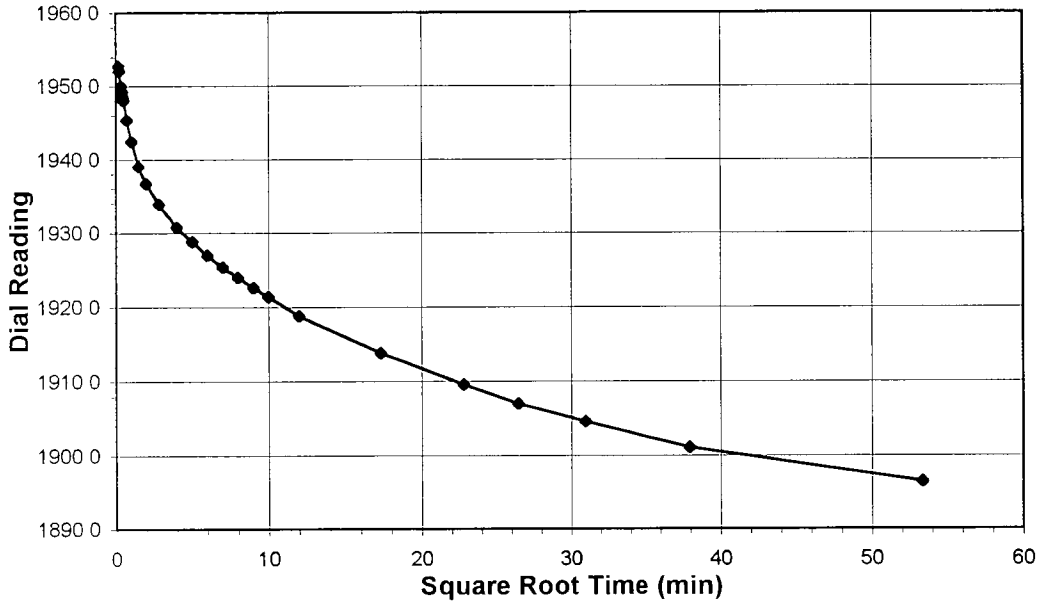


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

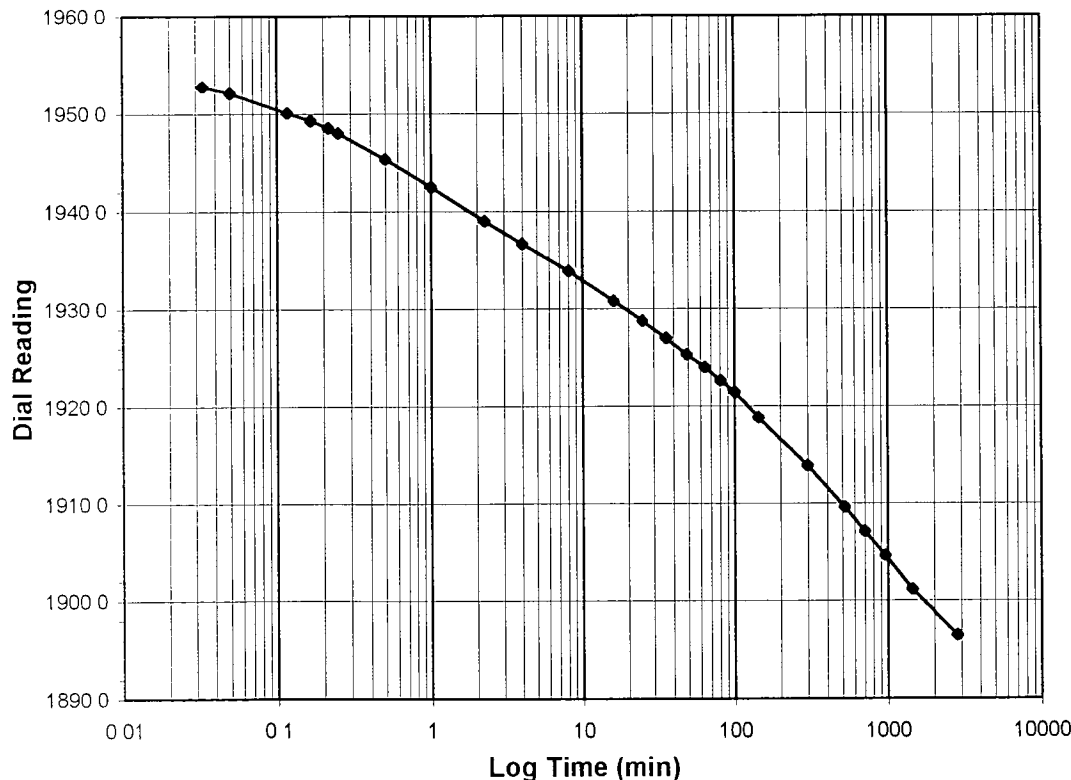
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PFP-47 POST S/T
Lab ID	2004-221-03-10	Visual Description	BROWN STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	4.0-1.0
Final Reading (div)	1896.4
Consolidometer No.	1
1 Division (in)	0.0001
Start Date	10/30/04
Start Time	9:13:17

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>1982.0</b>
0.03	1952.8
0.05	1952.1
0.12	1950.1
0.17	1949.3
0.22	1948.5
0.25	1948.0
0.50	1945.4
1.00	1942.5
2.25	1939.1
4.00	1936.7
8.08	1933.9
16.00	1930.8
25.00	1928.8
36.00	1927.0
49.00	1925.3
64.02	1924.0
81.00	1922.6
100.00	1921.4
144.00	1918.8
300.00	1913.8
520.00	1909.6
700.00	1907.1
960.00	1904.6
1440.00	1901.1
2849.63	1896.4



Tested By TM Date 10/30/04 Checked By GU Date 11/9/04



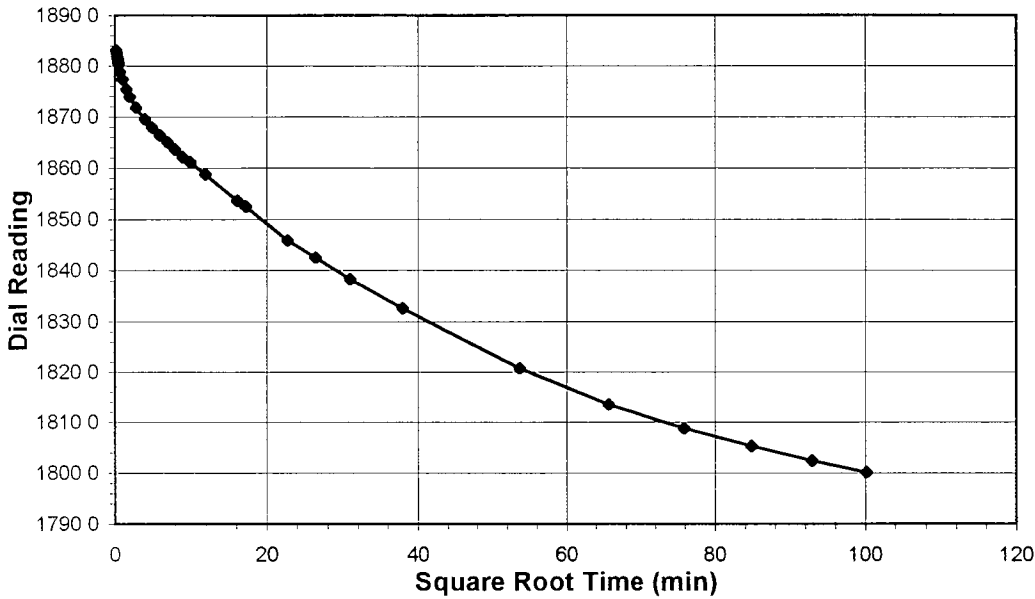


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

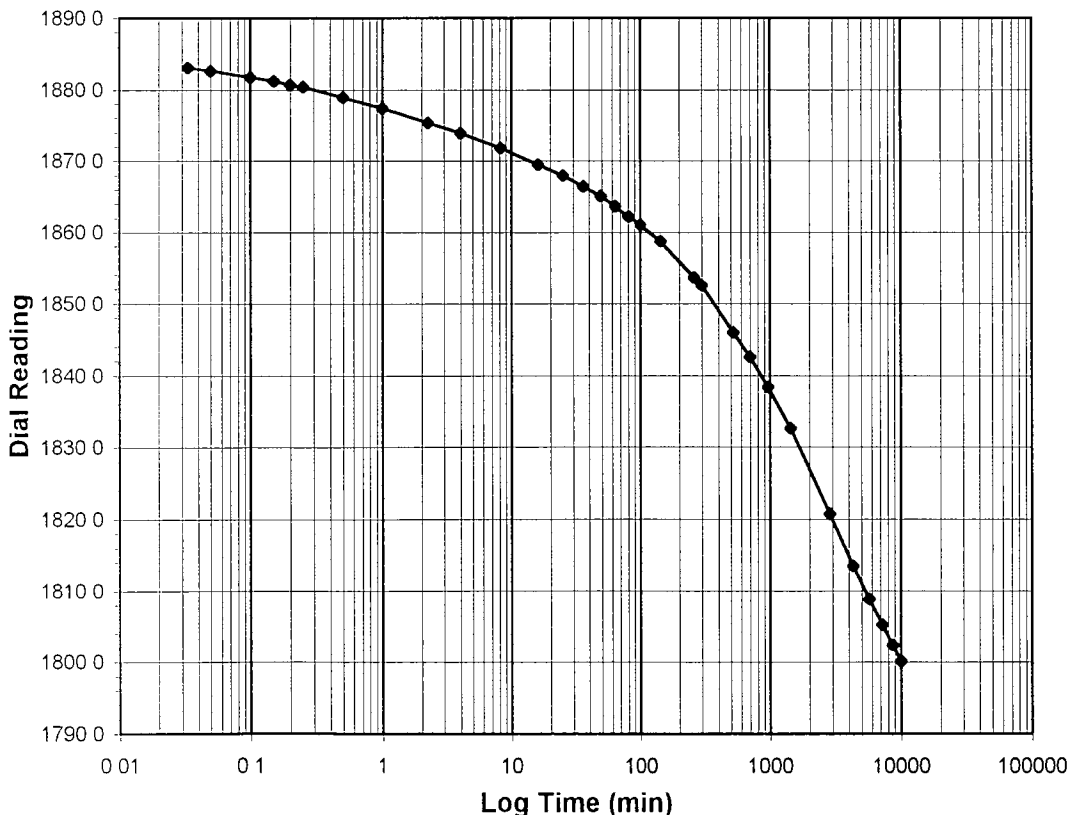
Client	BLASLAND, BOUCK, & LEE	Boring No.	NA
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-03	Sample No.	PFP-47 POST S/T
Lab ID	2004-221-03-10	Visual Description	BROWN STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



<b>Test Load (tsf)</b>	<b>1.0-0.25</b>
<b>Final Reading (div)</b>	<b>1800.1</b>
Consolidometer No.	1
1 Division (in)	0.0001
Start Date	11/1/04
Start Time	8:59:13

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>1896.4</b>
0.03	1883.1
0.05	1882.7
0.10	1881.8
0.15	1881.2
0.20	1880.7
0.25	1880.4
0.50	1878.9
1.00	1877.4
2.25	1875.4
4.00	1873.9
8.22	1871.8
16.00	1869.5
25.00	1868.0
36.00	1866.5
49.00	1865.1
64.00	1863.7
81.00	1862.2
100.00	1861.1
144.00	1858.7
261.70	1853.6
300.00	1852.6
520.00	1845.9
700.00	1842.6
960.00	1838.3
1440.00	1832.6
2880.00	1820.7
4320.00	1813.5
5760.00	1808.8
7200.00	1805.3
8640.00	1802.3
10050.02	1800.1



Tested By **TM** Date **11/1/04** Checked By **GU** Date **11/9/04**



March 23, 2005

Project No. 2004-221-04

Mr. Pat Foos  
BB&L Environmental Services  
6723 Towpath Road  
Syracuse, NY 13214

**Transmittal**  
**Laboratory Test Results**  
**GEHR Treatability 204.302**

Please find attached the laboratory test results for the above referenced project. The tests were outlined on the Project Verification Form that was faxed to your firm prior to the testing. The testing was performed in general accordance with the methods listed on the enclosed data sheets. The test results are believed to be representative of the samples that were submitted for testing and are indicative only of the specimens which were evaluated. We have no direct knowledge of the origin of the samples and imply no position with regard to the nature of the test results, i.e. pass/fail and no claims as to the suitability of the material for its intended use.

The test data and all associated project information provided shall be held in strict confidence and disclosed to other parties only with authorization by our Client. The test data submitted herein is considered integral with this report and is not to be reproduced except in whole and only with the authorization of the Client and Geotechnics. The remaining sample materials for this project will be retained for a minimum of 90 days as directed by the Geotechnics' Quality Program.

We are pleased to provide these testing services. Should you have any questions or if we may be of further assistance, please contact our office.

Respectively submitted,  
**Geotechnics, Inc.**

David R. Backstrom  
Laboratory Director

***We understand that you have a choice in your laboratory services  
and we thank you for choosing Geotechnics.***

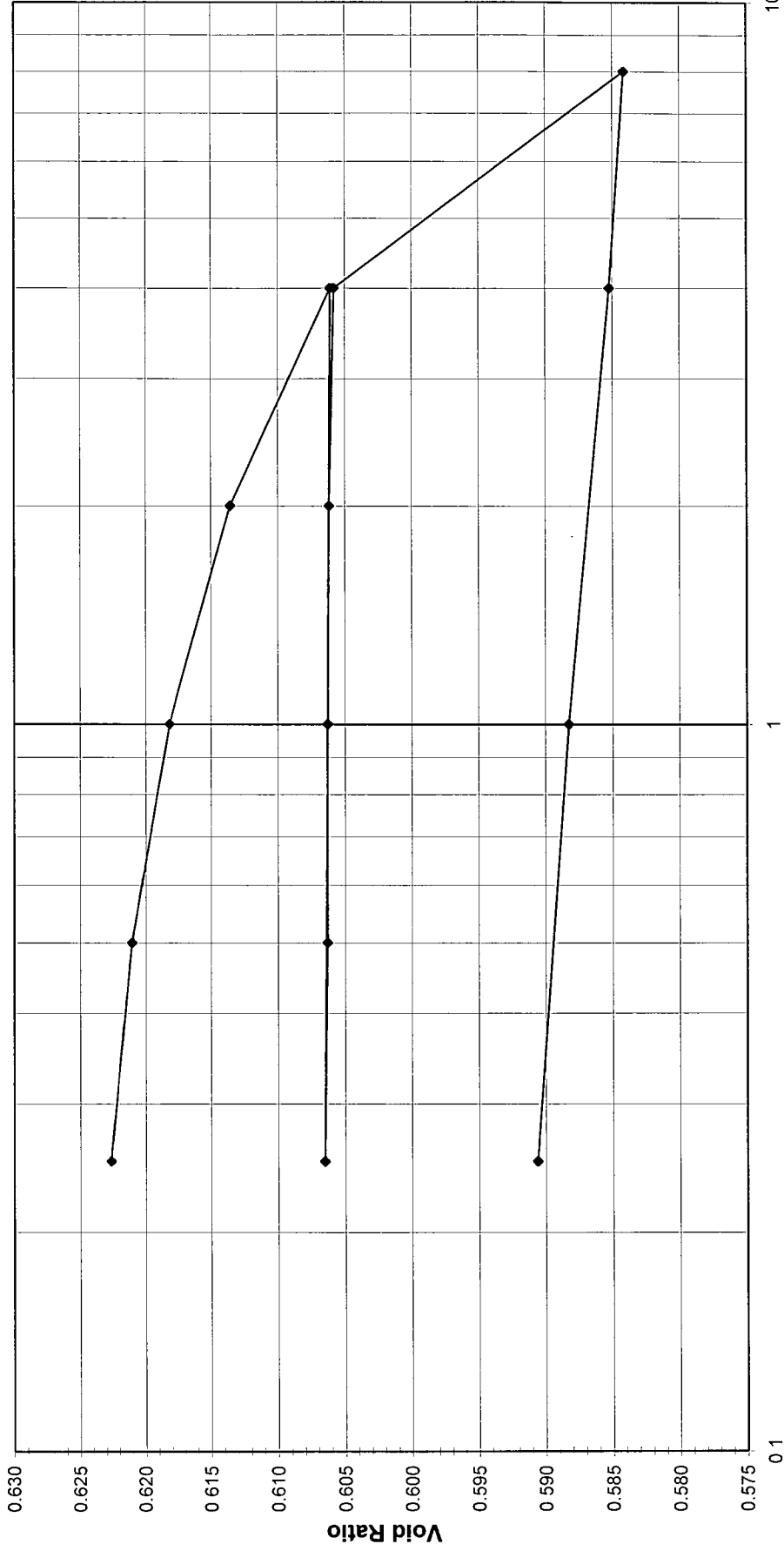


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 / AASHTO T216-03 (SOP-S24)

Client	BLASLUND, BOUCK, & LEE	Boring No.	9/22/04
Client Reference	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-04	Sample No.	SS51-R-POST S/T
Lab ID	2004-221-04-01	Visual Description	BROWN STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Log P (tsf)

Tested By TM Date 10/25/04 Approved By DB Date 10/10/04



**ONE DIMENSIONAL CONSOLIDATION**

ASTM D 2435-96 / AASHTO T216-03 (SOP-S24)

Client	BLASLUND, BOUCK, & LEE	Boring No.	9/22/04
Client Reference	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-04	Sample No.	SS51-R-POST S/T
Lab ID	2004-221-04-01	Visual Description	BROWN STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED

**Consolidometer No.** 5

**1 Division** = 0.0001 (in)

**Sample Properties**

<i>Water Content</i>			
Tare Number	1399	1775	
Wt. Tare & WS (gm)	86.27	183.22	
Wt. Tare & DS (gm)	79.83	161.21	
Wt. Water (gm)	6.44	22.01	
Wt. Tare (gm)	38.18	40.56	
Wt. DS (gm)	41.65	120.65	
Water Content (%)	15.46	18.24	
<i>Sample Parameters</i>			
Sample Diameter (in)	2.5	2.5	
Sample Height (in)	1	0.980	
Sample Volume (cc)	80.44	78.83	
Wt. Wet Sample + Ring (gm)	285.93	289.65	
Wt. of Ring (gm)	131.42	131.42	
Wt. of Wet Sample (gm)	154.51	158.23	
Wet Density (pcf)	119.86	125.25	
Wet Density (g/cc)	1.92	2.01	
Water Content (%)	15.46	18.24	
Wt. of Dry Sample (gm)	133.82	133.82	
Dry Density (pcf)	103.81	105.92	
Dry Density (g/cc)	1.66	1.70	
Void Ratio	0.6230	0.5906	
Saturation (%)	67.01	83.40	
Specific Gravity	2.70	Assumed	

**Test Data Summary**

Applied Pressure (tsf)	Final Reading (div)	Machine Deflection (div)	Corrected Reading (div)	Height of Sample (mm)	Volume (cc)	Dry Density (g/cc)	Void Ratio
Seating	0	0	0	25.400	80.440	1.66359	<b>0.62300</b>
0.25	7.0	4.8	2.2	25.394	80.422	1.66395	<b>0.62265</b>
0.5	19.1	7.1	12.0	25.370	80.344	1.66558	<b>0.62106</b>
1	40.7	10.9	29.8	25.324	80.200	1.66855	<b>0.61817</b>
2	76.8	18.5	58.3	25.252	79.971	1.67334	<b>0.61354</b>
4	123.9	19.6	104.3	25.135	79.601	1.68112	<b>0.60607</b>
1	120.7	17.6	103.1	25.138	79.611	1.68091	<b>0.60627</b>
0.25	114.2	12.7	101.5	25.142	79.624	1.68064	<b>0.60653</b>
0.5	115.0	12.2	102.8	25.139	79.613	1.68087	<b>0.60631</b>
1	117.2	14.3	102.9	25.139	79.612	1.68089	<b>0.60629</b>
2	121.5	17.8	103.7	25.137	79.606	1.68102	<b>0.60617</b>
4	133.5	27.5	106.0	25.131	79.587	1.68141	<b>0.60580</b>
8	280.2	40.8	239.4	24.792	78.514	1.70440	<b>0.58414</b>
4	267.6	34.8	232.8	24.809	78.567	1.70323	<b>0.58522</b>
1	234.5	20.4	214.1	24.856	78.717	1.69999	<b>0.58824</b>
0.25	212.5	12.9	199.6	24.893	78.834	1.69747	<b>0.59060</b>

Tested By TM Date 10/25/04 Input Checked By CSJ Date 11/10/04

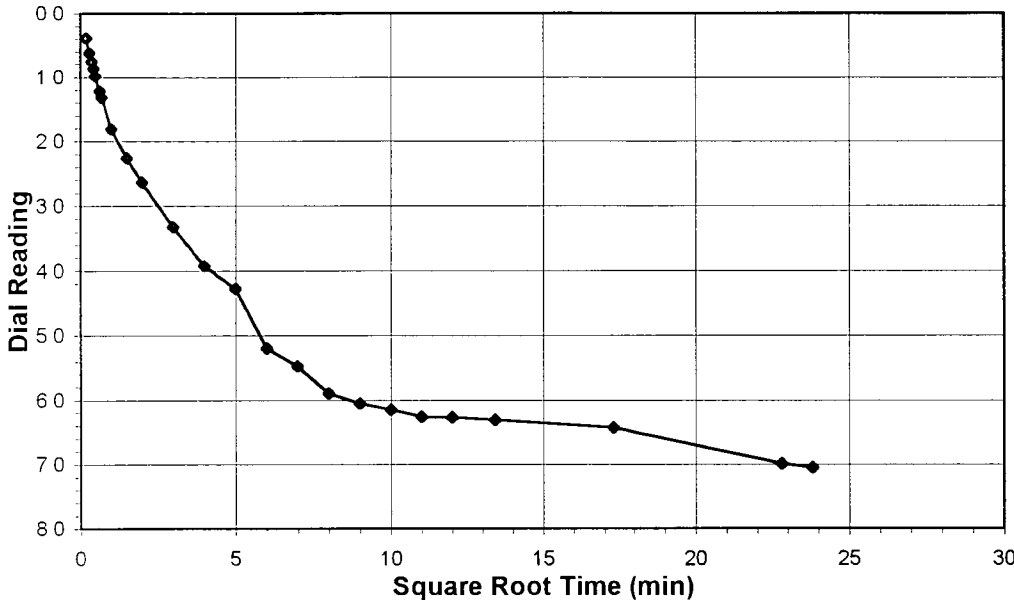


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLUND, BOUCK, & LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-04	Sample No.	SS51-R-POST S/T
Lab ID	2004-221-04-01	Visual Description	BROWN STABILIZED MATERIAL

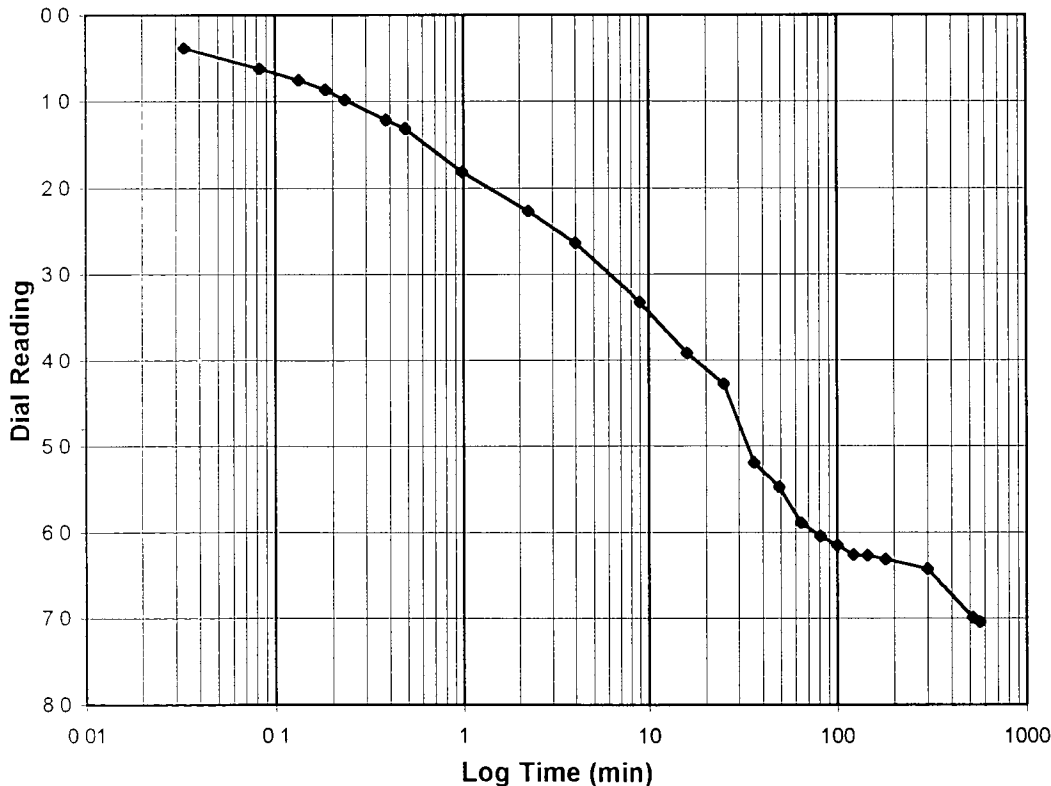
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0-0.25
Final Reading (div)	7.0
Consolidometer No.	G1051
1 Division (in)	0.0001

Start Date	10/25/04
Start Time	17:27:05

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>0.0</b>
0.03	0.4
0.08	0.6
0.13	0.8
0.18	0.9
0.23	1.0
0.38	1.2
0.48	1.3
0.98	1.8
2.23	2.3
3.98	2.6
8.98	3.3
15.98	3.9
24.98	4.3
35.98	5.2
48.98	5.5
63.98	5.9
80.98	6.0
99.98	6.2
120.98	6.3
143.98	6.3
179.98	6.3
299.98	6.4
519.98	7.0
566.98	7.0



Tested By **TM** Date **10/25/04** Checked By **GL** Date **11/10/04**

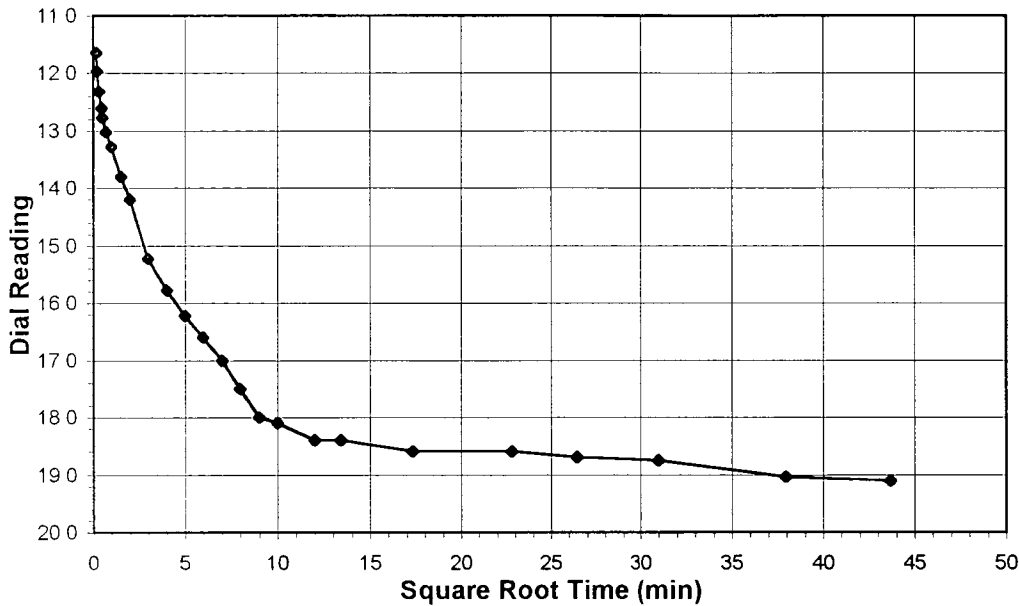


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLUND, BOUCK, & LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-04	Sample No.	SS51-R-POST S/T
Lab ID	2004-221-04-01	Visual Description	BROWN STABILIZED MATERIAL

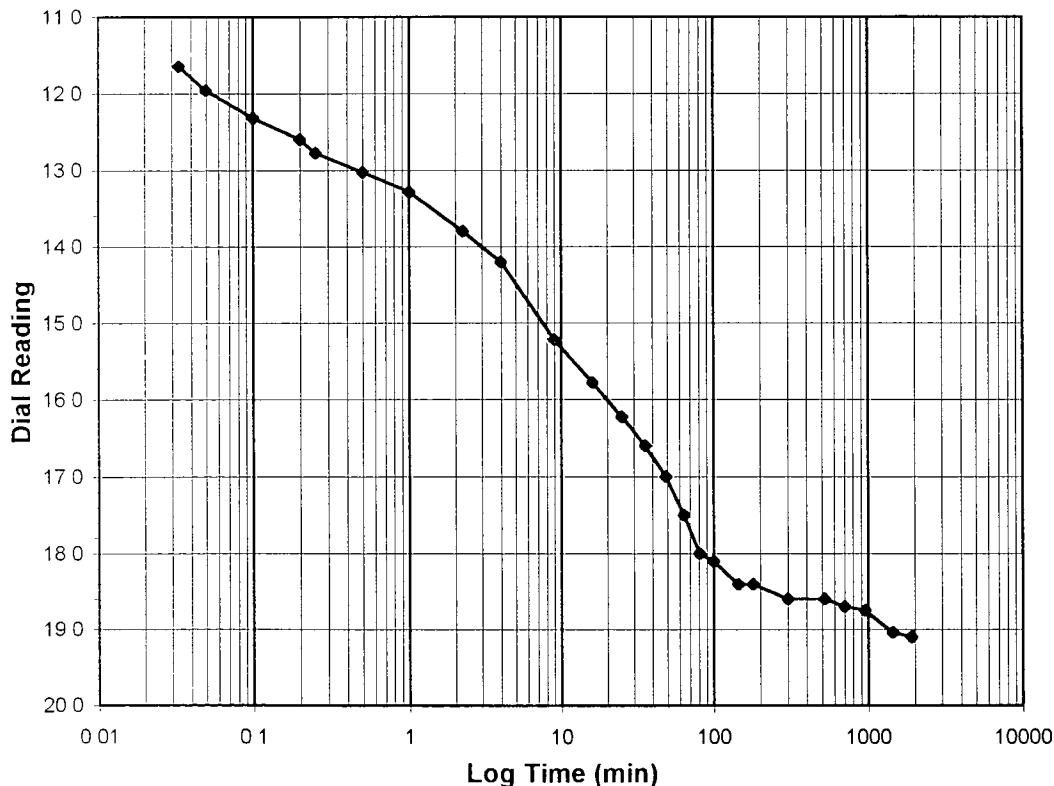
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



<b>Test Load</b>	(tsf)	<b>0.25-0.5</b>
<b>Final Reading</b>	(div)	<b>19.1</b>
Consolidometer No.		<b>G1051</b>
1 Division	(in)	0.0001

Start Date	10/26/04
Start Time	3:41:17

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>7.0</b>
0.03	11.6
0.05	12.0
0.10	12.3
0.20	12.6
0.25	12.8
0.50	13.0
1.00	13.3
2.25	13.8
4.00	14.2
9.00	15.2
16.00	15.8
25.00	16.2
36.00	16.6
49.00	17.0
64.00	17.5
81.00	18.0
100.00	18.1
144.00	18.4
180.00	18.4
300.00	18.6
520.00	18.6
700.00	18.7
960.00	18.8
1440.00	19.0
1908.00	19.1



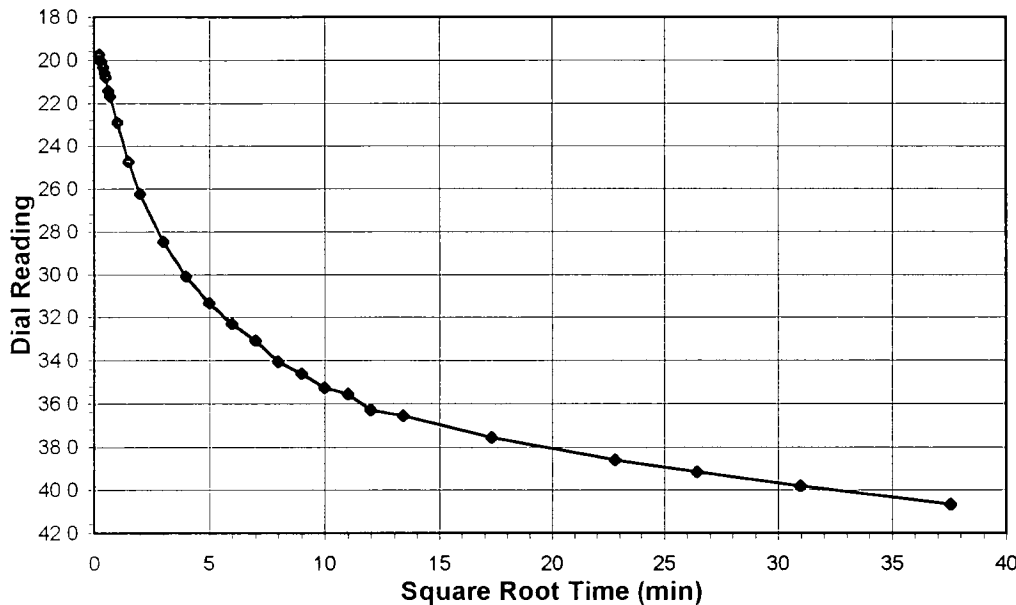
Tested By **TM** Date **10/26/04** Checked By **GU** Date **11/10/14**



**ONE DIMENSIONAL CONSOLIDATION**  
ASTM D 2435-96 (SOP-S24A)

Client	BLASLUND, BOUCK, & LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-04	Sample No.	SS51-R-POST S/T
Lab ID	2004-221-04-01	Visual Description	BROWN STABILIZED MATERIAL

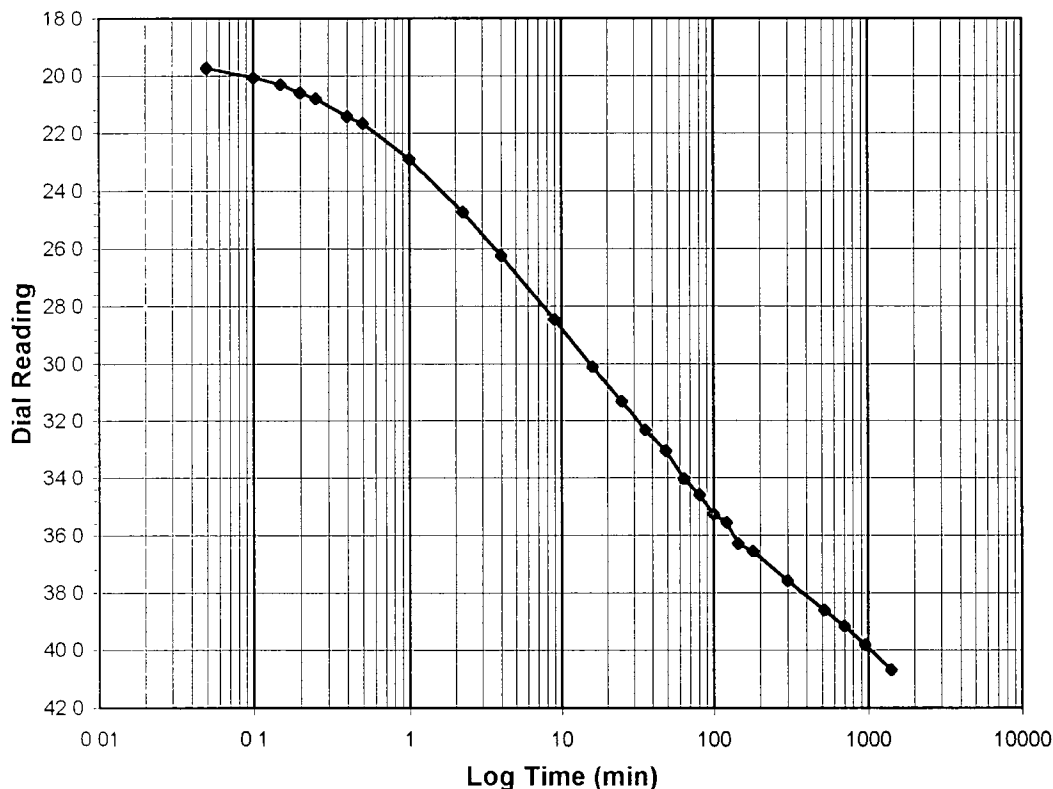
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.5-1.0
Final Reading (div)	40.7
Consolidometer No.	G1051
1 Division (in)	0.0001

Start Date	10/27/04
Start Time	11:34:08

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>19.1</b>
0.05	19.7
0.10	20.1
0.15	20.3
0.20	20.6
0.25	20.8
0.40	21.4
0.50	21.7
1.00	22.9
2.25	24.7
4.00	26.3
9.00	28.5
16.00	30.1
25.00	31.3
36.00	32.3
49.00	33.1
64.00	34.0
81.00	34.6
100.00	35.3
121.00	35.6
144.00	36.3
180.00	36.6
300.00	37.6
520.00	38.6
700.00	39.2
960.00	39.8
1411.87	40.7



Tested By TM Date 10/27/04 Checked By GU Date 11/10/04

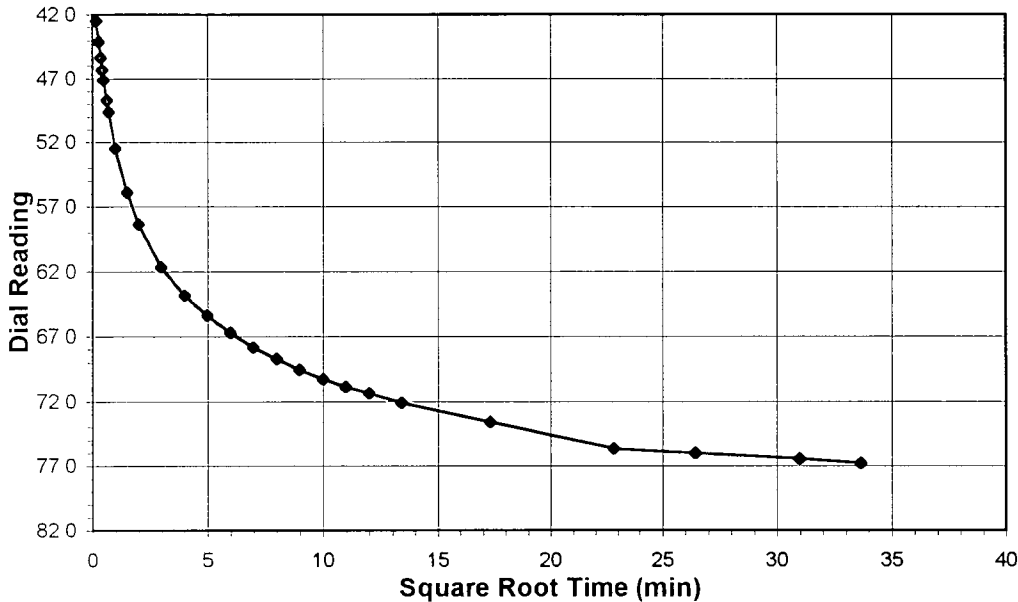


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLUND, BOUCK, & LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-04	Sample No.	SS51-R-POST S/T
Lab ID	2004-221-04-01	Visual Description	BROWN STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED

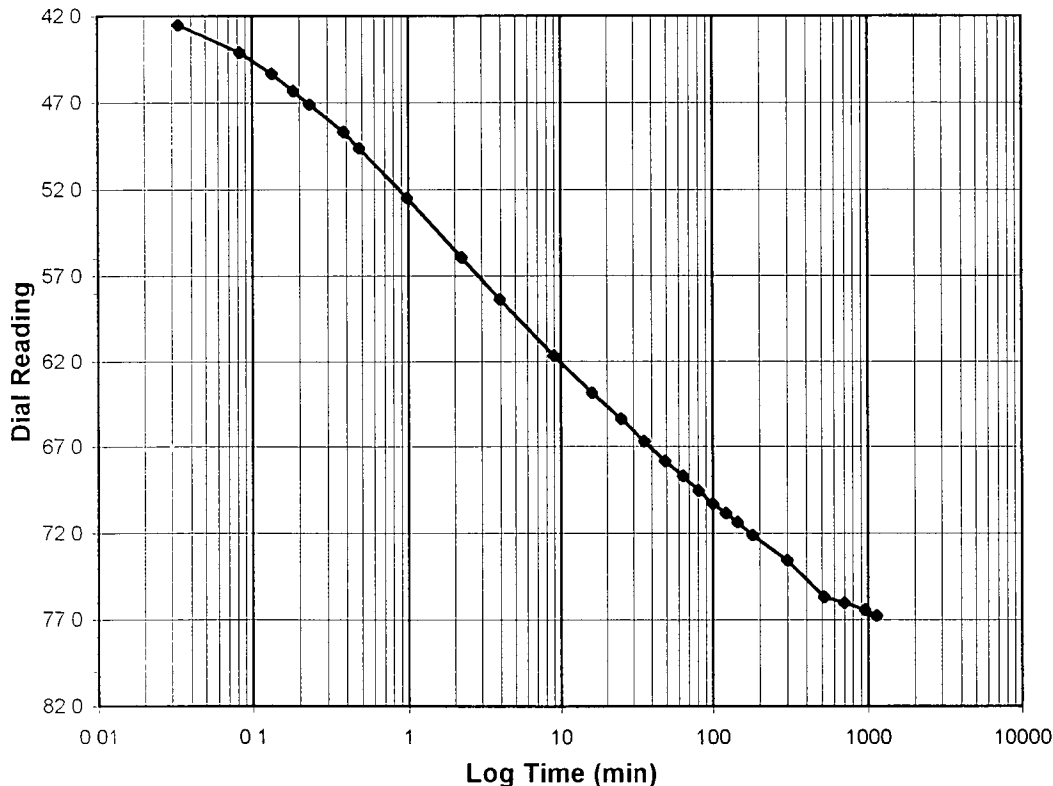


Test Load (tsf)	1.0-2.0
Final Reading (div)	76.8
Consolidometer No.	G1051
1 Division (in)	0.0001

Start Date	10/28/04
Start Time	11:15:59

Elapsed Time (min)	Dial Reading (div)
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<i>Initial</i>	40.7
0.03	42.5
0.08	44.1
0.13	45.4
0.18	46.3
0.23	47.1
0.38	48.7
0.48	49.6
0.98	52.5
2.23	55.9
3.98	58.4
8.98	61.7
15.98	63.9
24.98	65.4
35.98	66.7
48.98	67.8
63.98	68.7
80.98	69.6
99.98	70.3
120.98	70.9
143.98	71.4
179.98	72.1
299.98	73.6
519.98	75.7
699.98	76.0
959.98	76.4
1134.07	76.8



Tested By *TM* Date *10/28/04* Checked By *GU* Date *11/10/04*



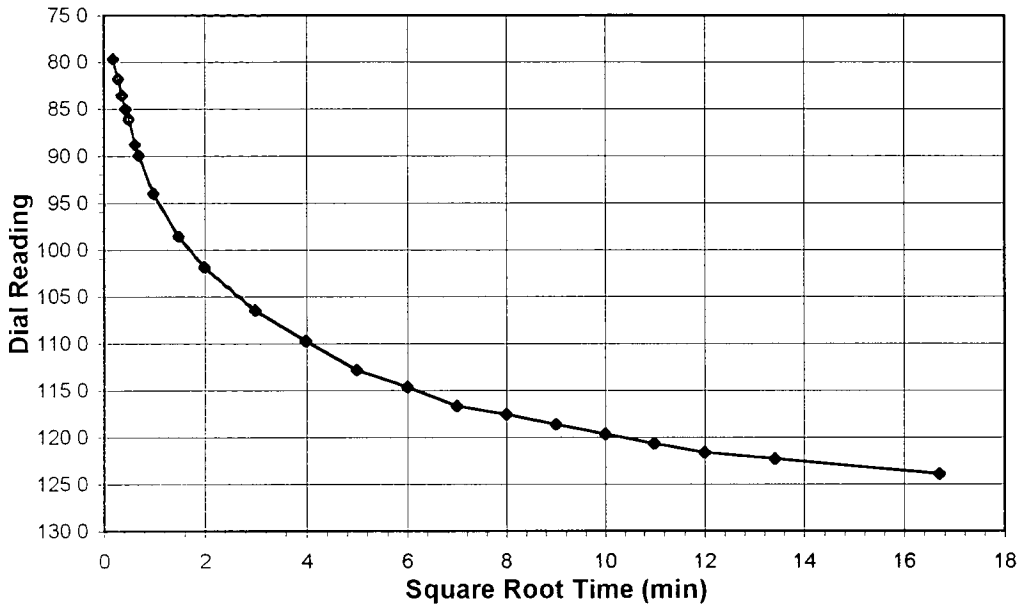


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLUND, BOUCK, & LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-04	Sample No.	SS51-R-POST S/T
Lab ID	2004-221-04-01	Visual Description	BROWN STABILIZED MATERIAL

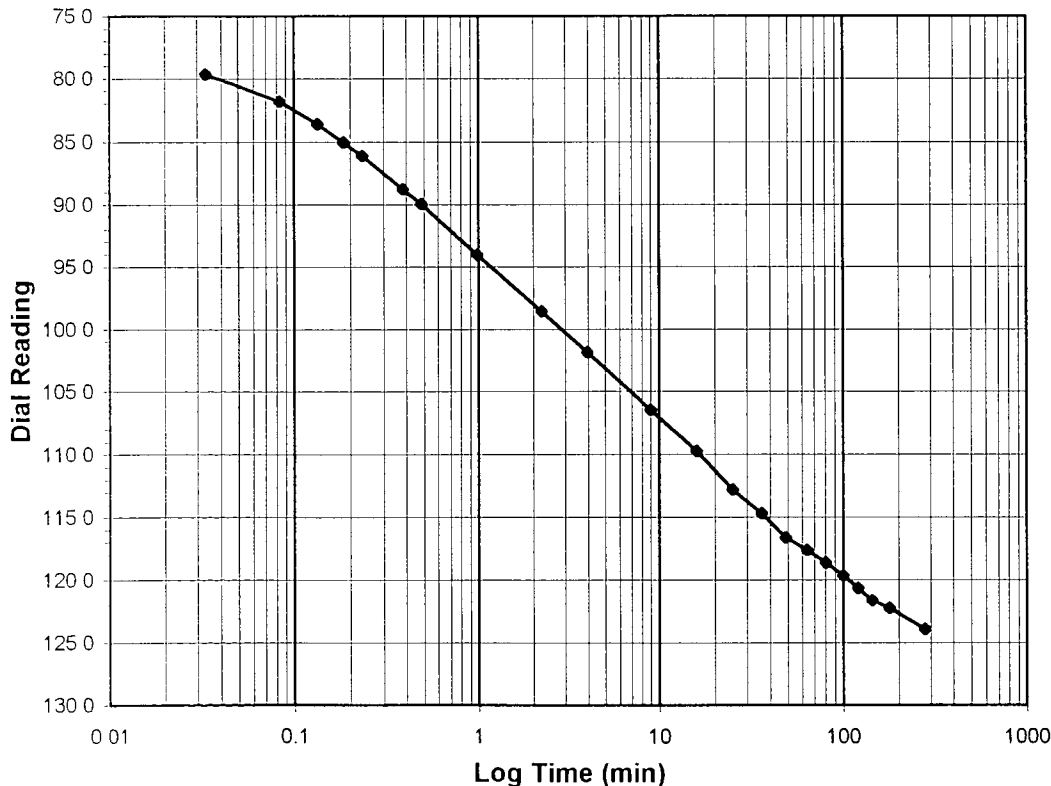
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



**Test Load (tsf)** 2.0-4.0  
**Final Reading (div)** 123.9  
 Consolidometer No. **G1051**  
 1 Division (in) 0.0001

**Start Date** 10/29/04  
**Start Time** 6:13:18

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>76.8</b>
0.03	79.7
0.08	81.9
0.13	83.6
0.18	85.0
0.23	86.1
0.38	88.8
0.48	90.0
0.98	94.0
2.23	98.6
3.98	101.9
8.98	106.5
15.98	109.7
24.98	112.8
35.98	114.7
48.98	116.6
63.98	117.6
80.98	118.6
99.98	119.6
120.98	120.6
143.98	121.6
179.98	122.3
278.98	123.9



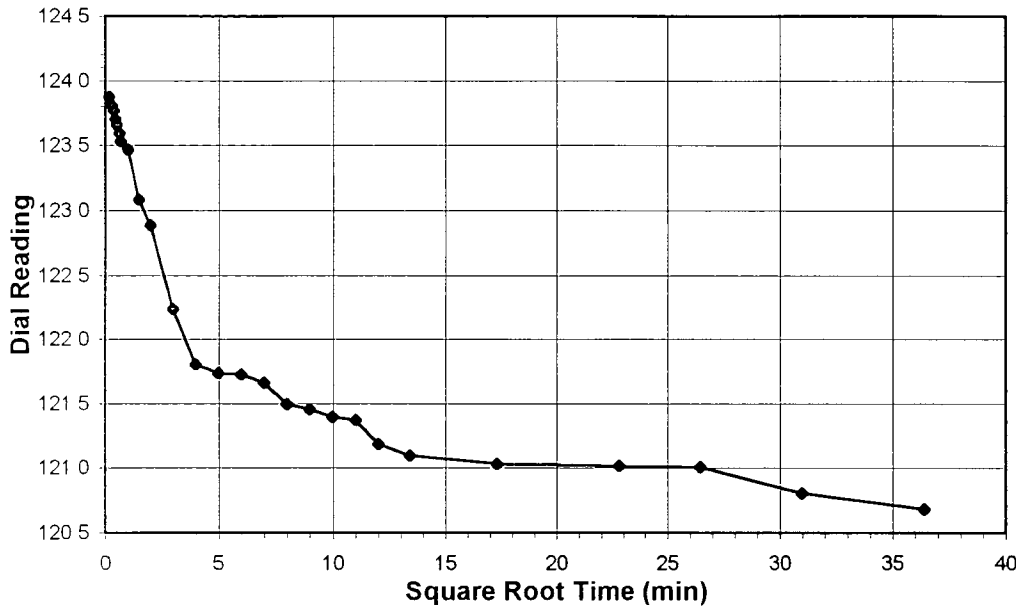
Tested By *TM* Date *10/29/04* Checked By *GC* Date *11/10/04*



**ONE DIMENSIONAL CONSOLIDATION**  
ASTM D 2435-96 (SOP-S24A)

Client	BLASLUND, BOUCK, & LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-04	Sample No.	SS51-R-POST S/T
Lab ID	2004-221-04-01	Visual Description	BROWN STABILIZED MATERIAL

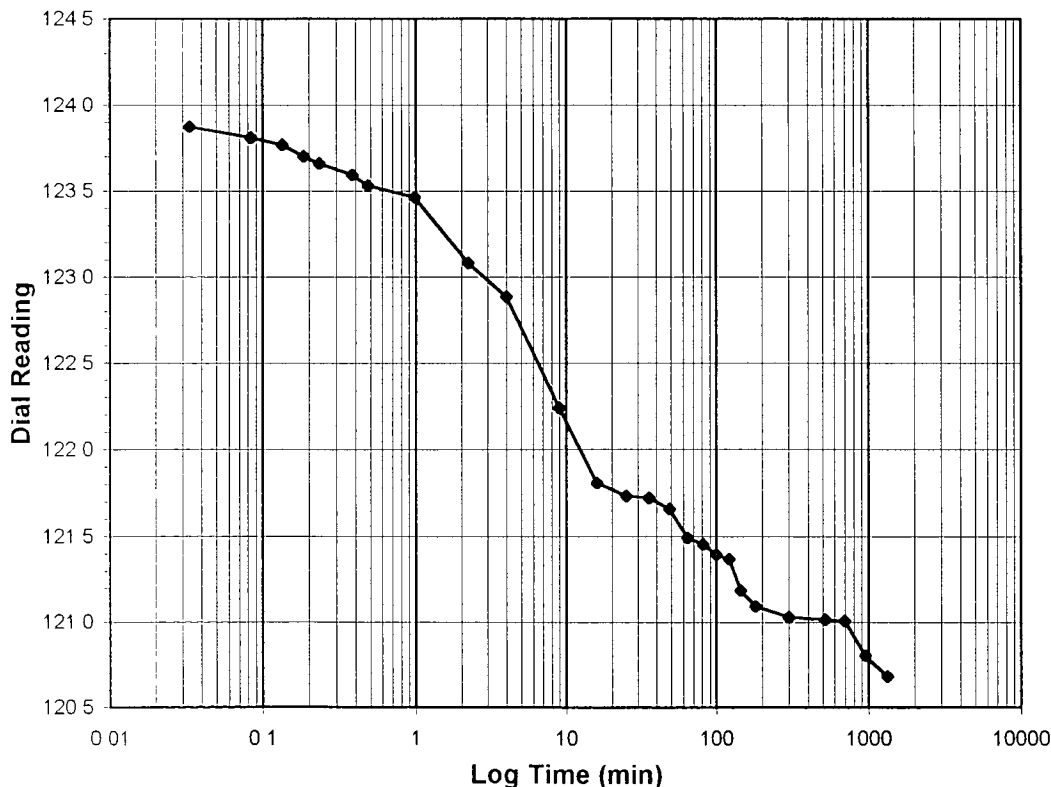
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



<b>Test Load</b>	(tsf)	<b>4.0-1.0</b>
<b>Final Reading</b>	(div)	<b>120.7</b>
Consolidometer No.		<b>G1051</b>
1 Division	(in)	0.0001

Start Date	10/29/04
Start Time	10:56:28

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>123.9</b>
0.03	123.9
0.08	123.8
0.13	123.8
0.18	123.7
0.23	123.7
0.38	123.6
0.48	123.5
0.98	123.5
2.23	123.1
3.98	122.9
8.98	122.2
15.98	121.8
24.98	121.7
35.98	121.7
48.98	121.7
63.98	121.5
80.98	121.5
99.98	121.4
120.98	121.4
143.98	121.2
179.98	121.1
299.98	121.0
519.98	121.0
699.98	121.0
959.98	120.8
1324.98	120.7



Tested By *TM* Date *10/29/04* Checked By *GU* Date *11/10/14*

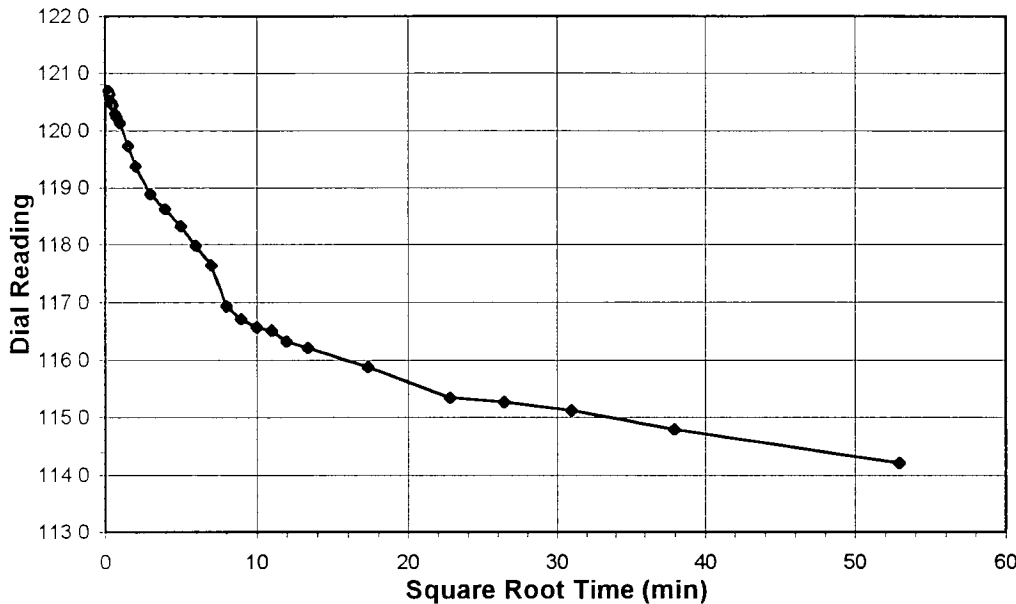


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLUND, BOUCK, & LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-04	Sample No.	SS51-R-POST S/T
Lab ID	2004-221-04-01	Visual Description	BROWN STABILIZED MATERIAL

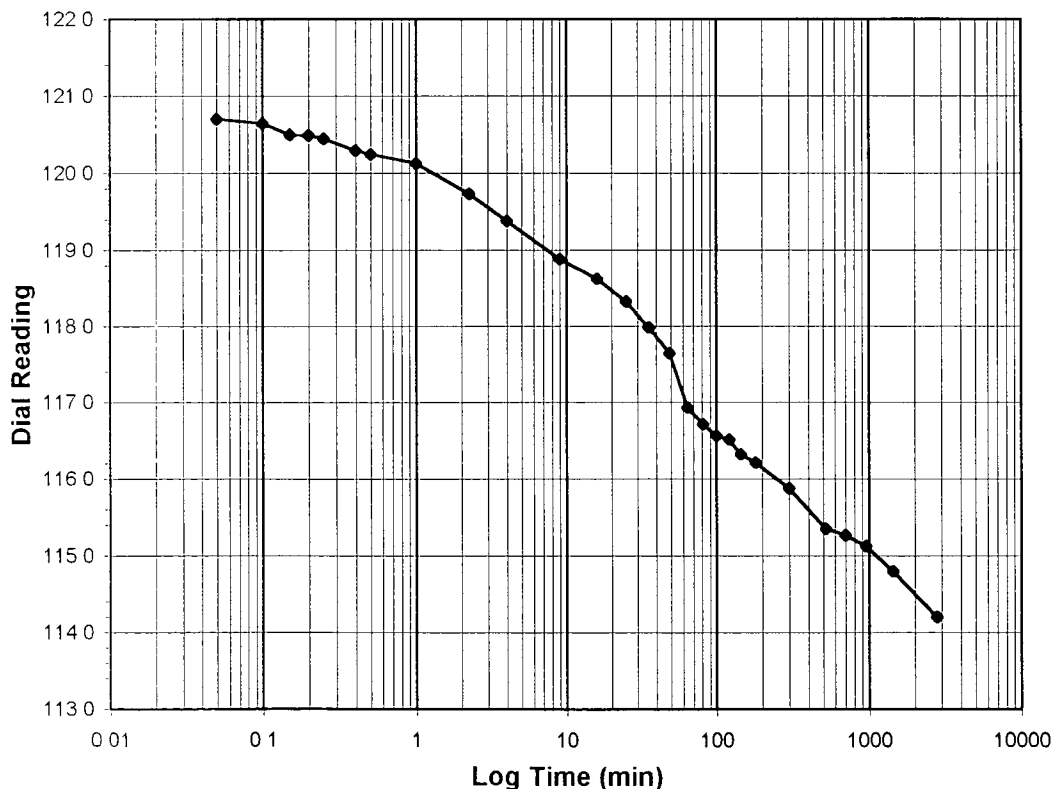
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	1.0-0.25
Final Reading (div)	114.2
Consolidometer No.	G1051
1 Division (in)	0.0001

Start Date	10/30/04
Start Time	9:05:01

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>120.7</b>
0.05	120.7
0.10	120.6
0.15	120.5
0.20	120.5
0.25	120.4
0.40	120.3
0.50	120.2
1.00	120.1
2.25	119.7
4.00	119.4
9.00	118.9
16.00	118.6
25.00	118.3
36.00	118.0
49.00	117.6
64.00	116.9
81.00	116.7
100.00	116.6
121.00	116.5
144.00	116.3
180.00	116.2
300.00	115.9
520.00	115.4
700.00	115.3
960.00	115.1
1440.00	114.8
2801.98	114.2



Tested By TM Date 10/30/04 Checked By GU Date 11/10/04

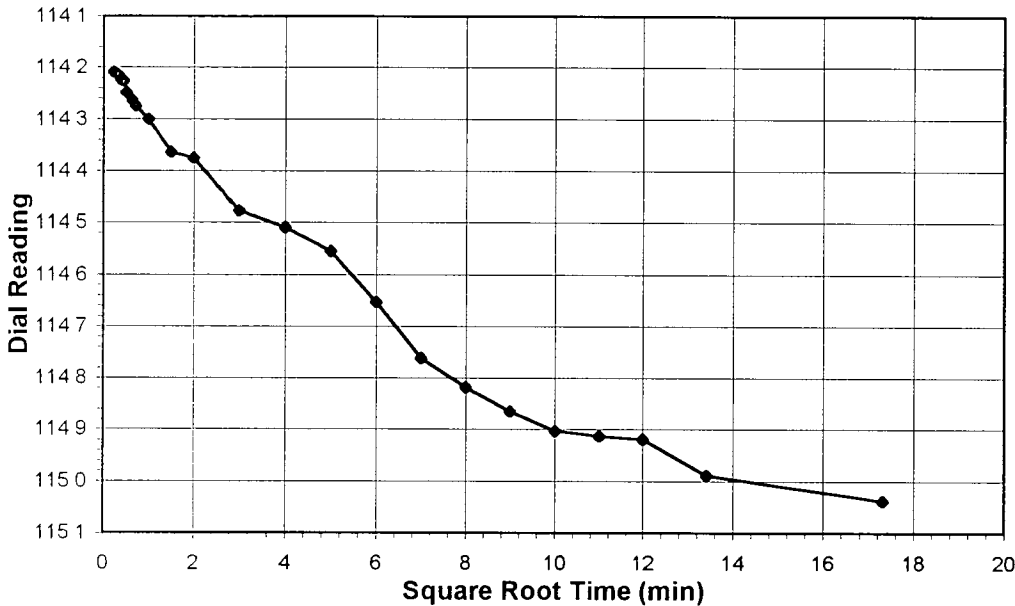


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLUND, BOUCK, & LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-04	Sample No.	SS51-R-POST S/T
Lab ID	2004-221-04-01	Visual Description	BROWN STABILIZED MATERIAL

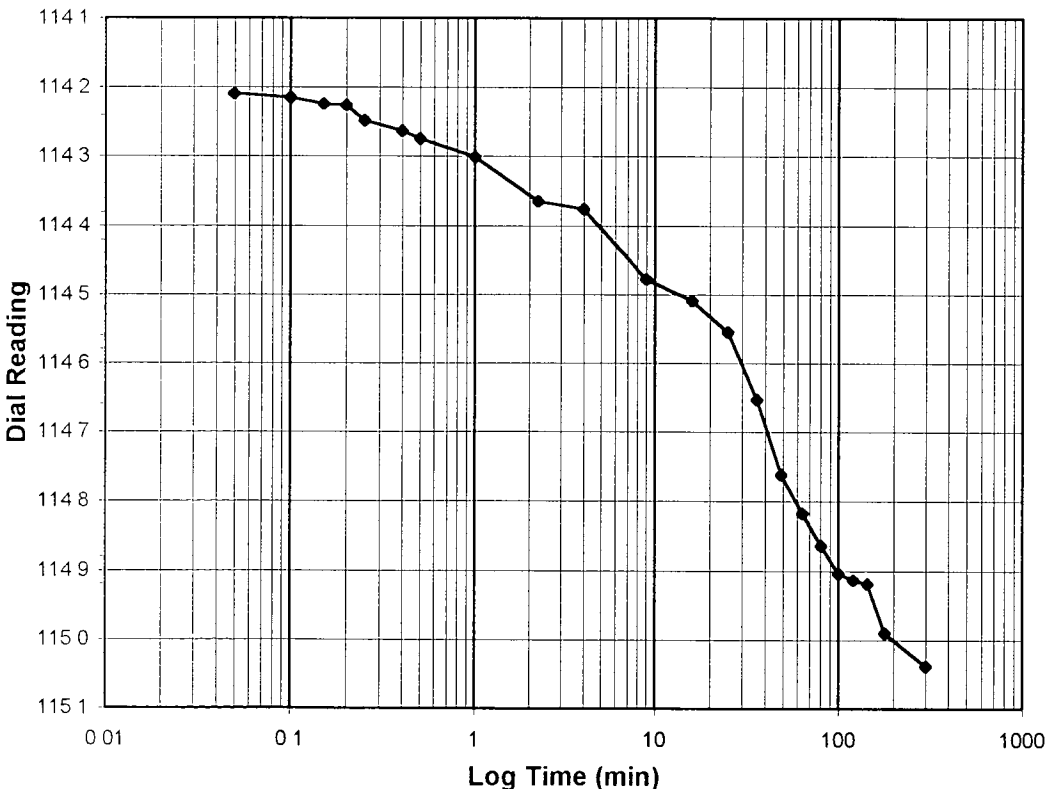
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.25-0.5
Final Reading (div)	115.0
Consolidometer No.	G1051
1 Division (in)	0.0001

Start Date	11/1/04
Start Time	8:17:41

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>114.2</b>
0.05	114.2
0.10	114.2
0.15	114.2
0.20	114.2
0.25	114.2
0.40	114.3
0.50	114.3
1.00	114.3
2.25	114.4
4.00	114.4
9.00	114.5
16.00	114.5
25.00	114.6
36.00	114.7
49.00	114.8
64.00	114.8
81.00	114.9
100.00	114.9
121.00	114.9
144.00	114.9
180.00	115.0
300.00	115.0



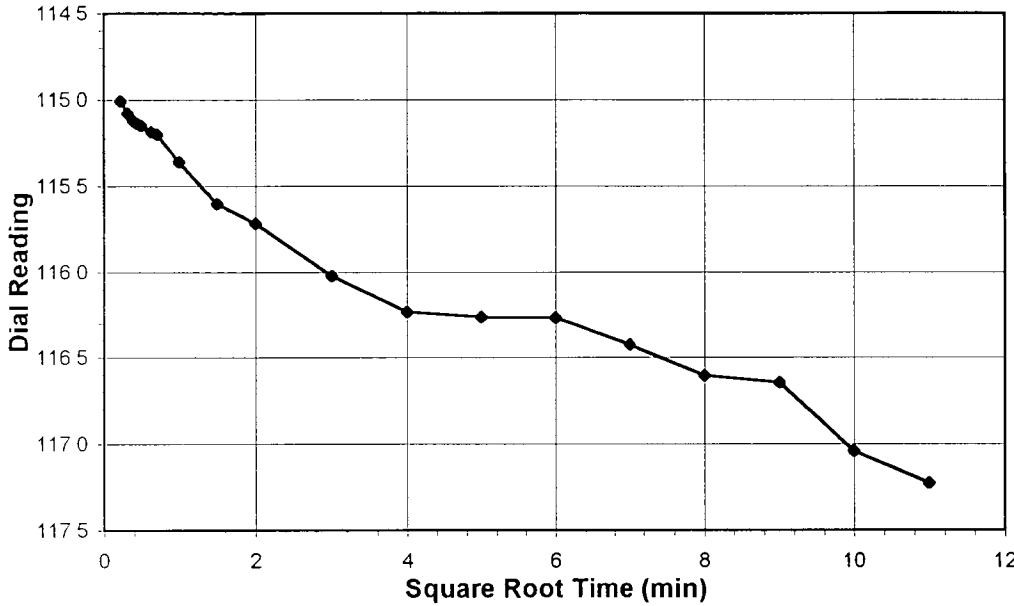
Tested By TM Date 11/1/04 Checked By GU Date 11/10/04



**ONE DIMENSIONAL CONSOLIDATION**  
ASTM D 2435-96 (SOP-S24A)

Client	BLASLUND, BOUCK, & LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-04	Sample No.	SS51-R-POST S/T
Lab ID	2004-221-04-01	Visual Description	BROWN STABILIZED MATERIAL

**Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED**

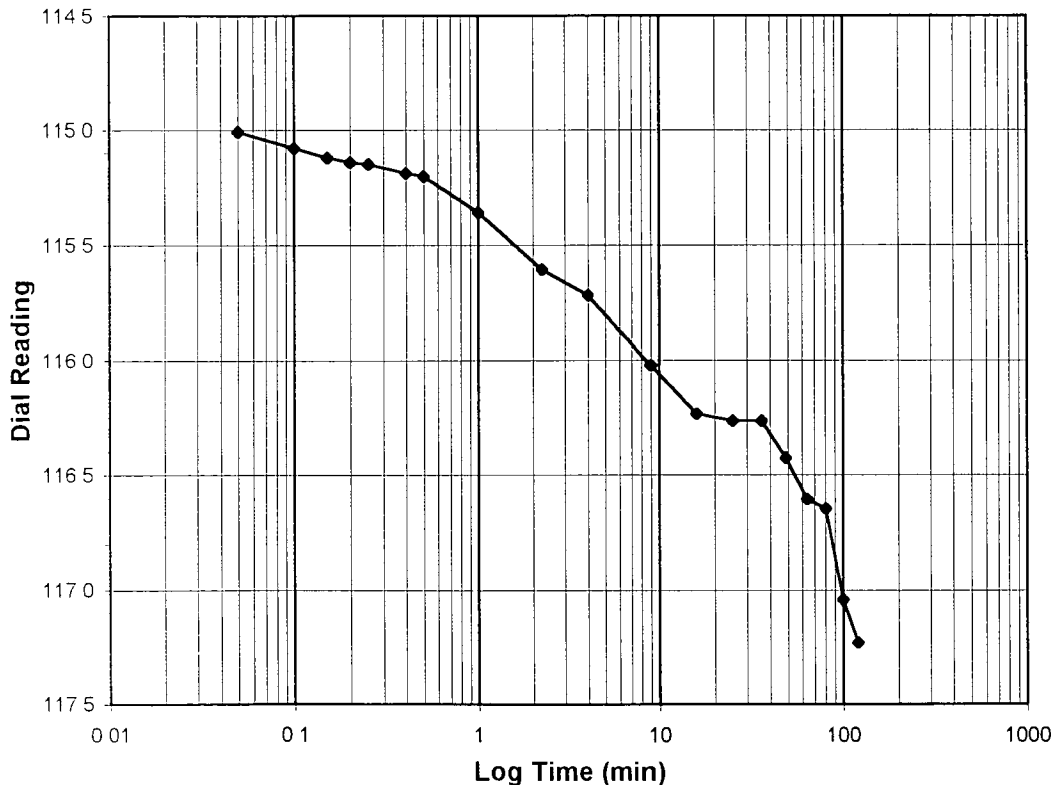


Test Load (tsf)	0.5-1.0
Final Reading (div)	117.2
Consolidometer No.	G1051
1 Division (in)	0.0001

Start Date	11/1/04
Start Time	13:28:38

Elapsed Time (min)	Dial Reading (div)
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<b>Initial</b>	<b>115.0</b>
0.05	115.0
0.10	115.1
0.15	115.1
0.20	115.1
0.25	115.1
0.40	115.2
0.50	115.2
1.00	115.4
2.25	115.6
4.00	115.7
9.00	116.0
16.00	116.2
25.00	116.3
36.00	116.3
49.00	116.4
64.00	116.6
81.00	116.6
100.00	117.0
121.00	117.2



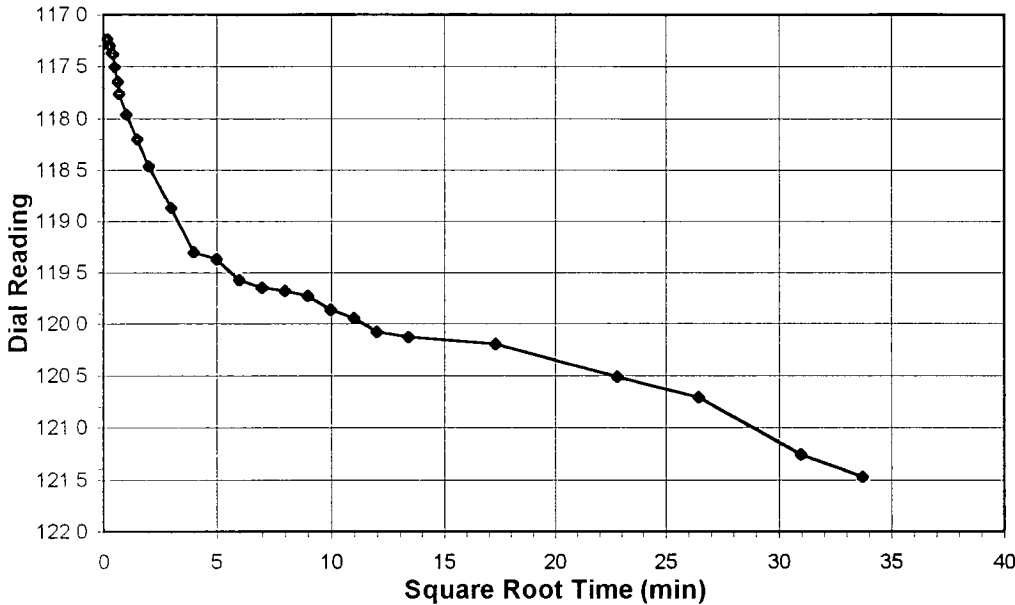
Tested By TM Date 11/1/04 Checked By GU Date 11/10/04



**ONE DIMENSIONAL CONSOLIDATION**  
ASTM D 2435-96 (SOP-S24A)

Client	BLASLUND, BOUCK, & LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-04	Sample No.	SS51-R-POST S/T
Lab ID	2004-221-04-01	Visual Description	BROWN STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED

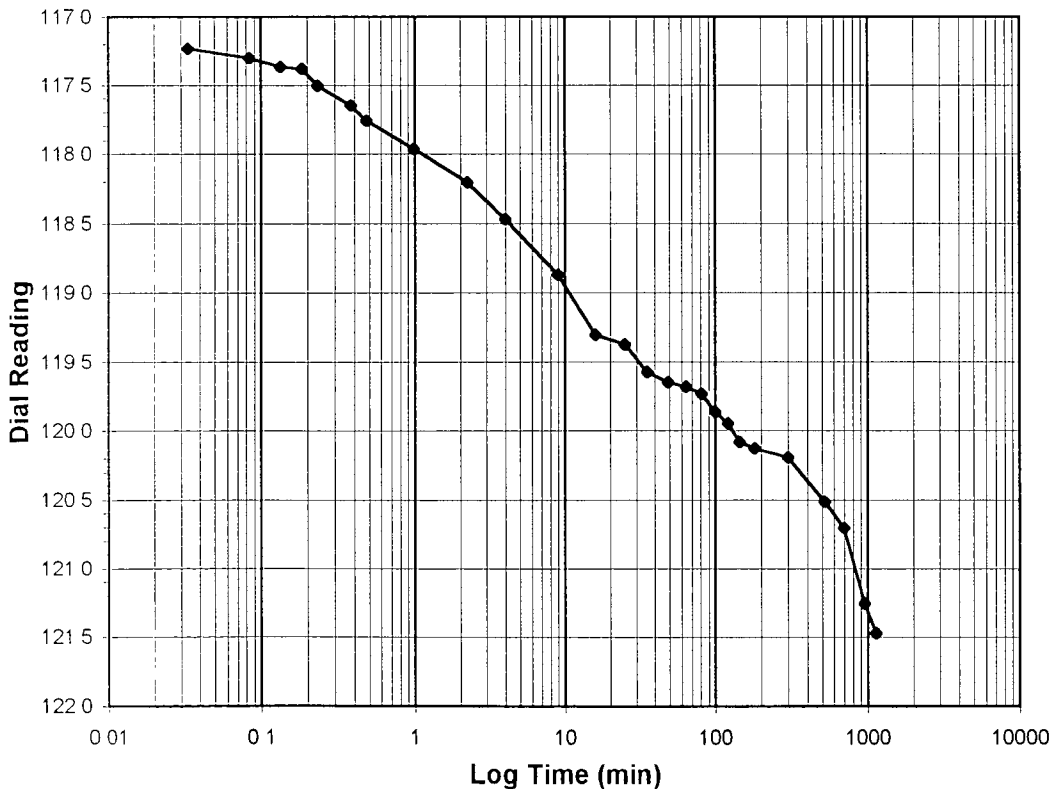


Test Load (tsf)	1.0-2.0
Final Reading (div)	121.5
Consolidometer No.	G1051
1 Division (in)	0.0001

Start Date	11/1/04
Start Time	15:48:04

Elapsed Time (min)	Dial Reading (div)
--------------------	--------------------

<b>Initial</b>	<b>117.2</b>
0.03	117.2
0.08	117.3
0.13	117.4
0.18	117.4
0.23	117.5
0.38	117.6
0.48	117.8
0.98	118.0
2.23	118.2
3.98	118.5
8.98	118.9
15.98	119.3
24.98	119.4
35.98	119.6
48.98	119.7
63.98	119.7
80.98	119.7
99.98	119.9
120.98	119.9
143.98	120.1
179.98	120.1
299.98	120.2
519.98	120.5
699.98	120.7
959.98	121.3
1136.38	121.5



Tested By *TM* Date *11/1/04* Checked By *GO* Date *11/10/04*

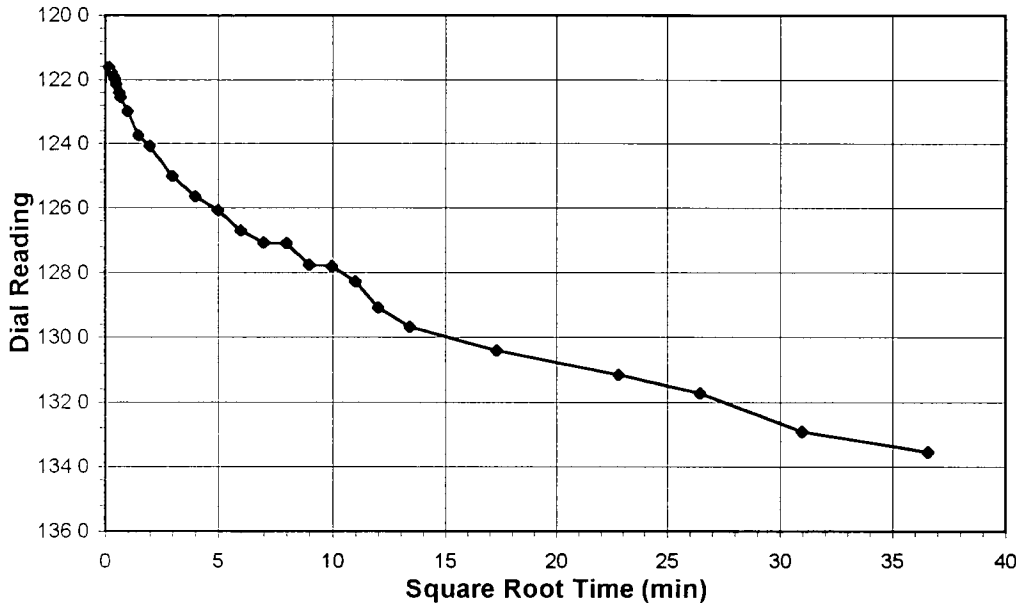


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLUND, BOUCK, & LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-04	Sample No.	SS51-R-POST S/T
Lab ID	2004-221-04-01	Visual Description	BROWN STABILIZED MATERIAL

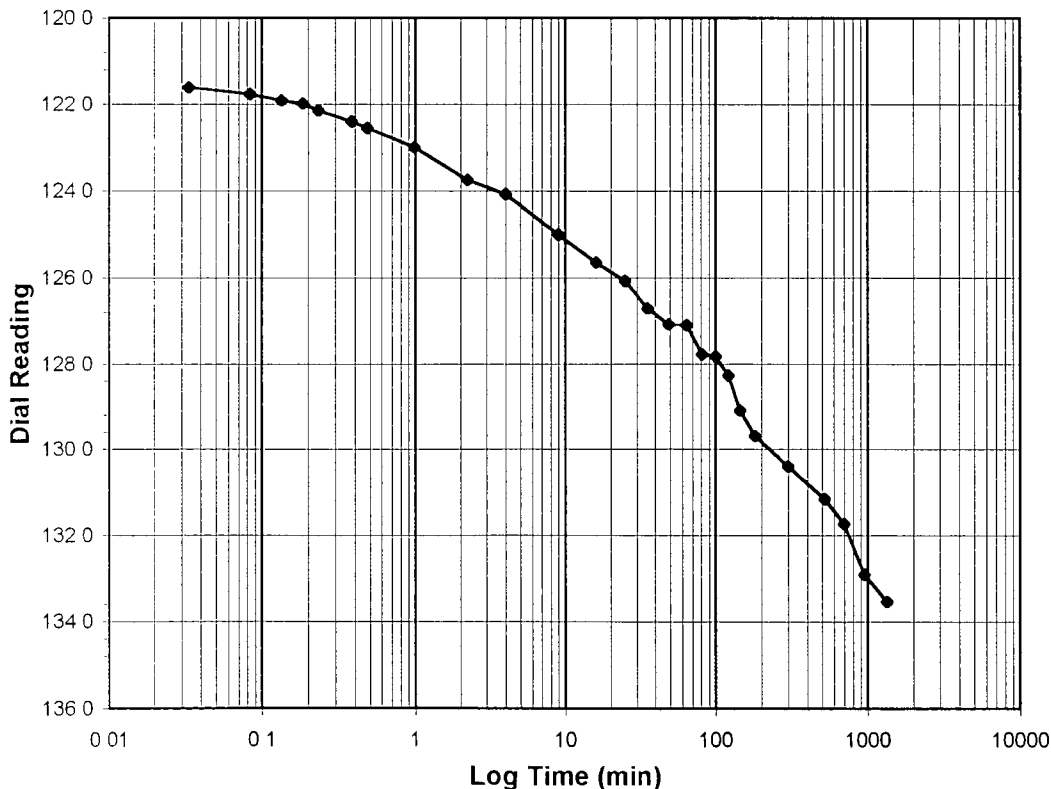
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 2.0-4.0  
 Final Reading (div) 133.5  
 Consolidometer No. G1051  
 1 Division (in) 0.0001

Start Date 11/2/04  
 Start Time 9:52:35

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>121.5</b>
0.03	121.6
0.08	121.8
0.13	121.9
0.18	122.0
0.23	122.2
0.38	122.4
0.48	122.6
0.98	123.0
2.23	123.7
3.98	124.1
8.98	125.0
15.98	125.6
24.98	126.1
35.98	126.7
48.98	127.1
63.98	127.1
80.98	127.8
99.98	127.8
120.98	128.3
143.98	129.1
179.98	129.7
299.98	130.4
519.98	131.2
699.98	131.7
959.98	132.9
1338.55	133.5



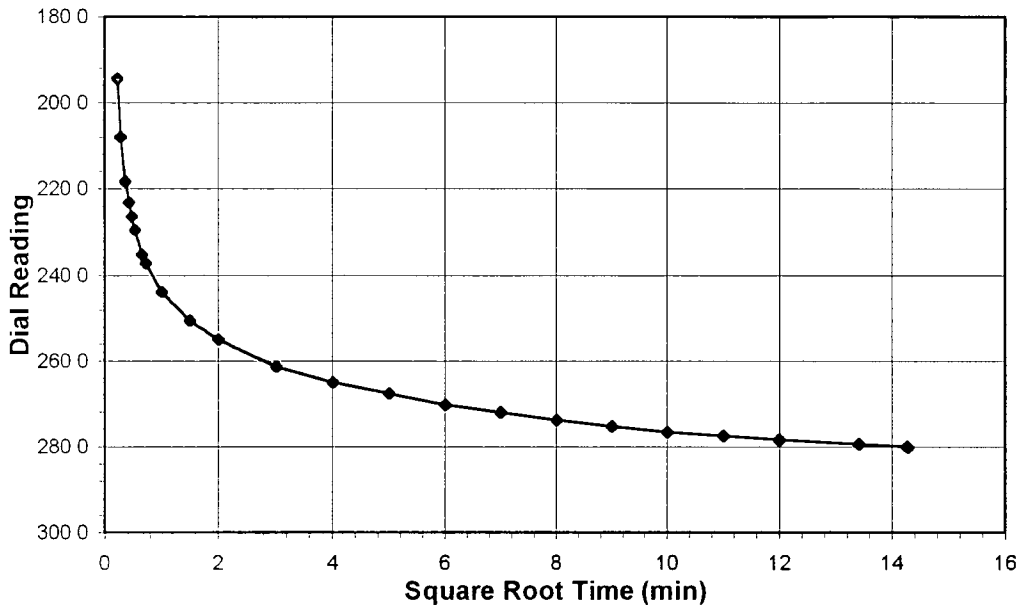
Tested By TM Date 11/2/04 Checked By GU Date 11/10/04



**ONE DIMENSIONAL CONSOLIDATION**  
ASTM D 2435-96 (SOP-S24A)

Client	BLASLUND, BOUCK, & LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-04	Sample No.	SS51-R-POST S/T
Lab ID	2004-221-04-01	Visual Description	BROWN STABILIZED MATERIAL

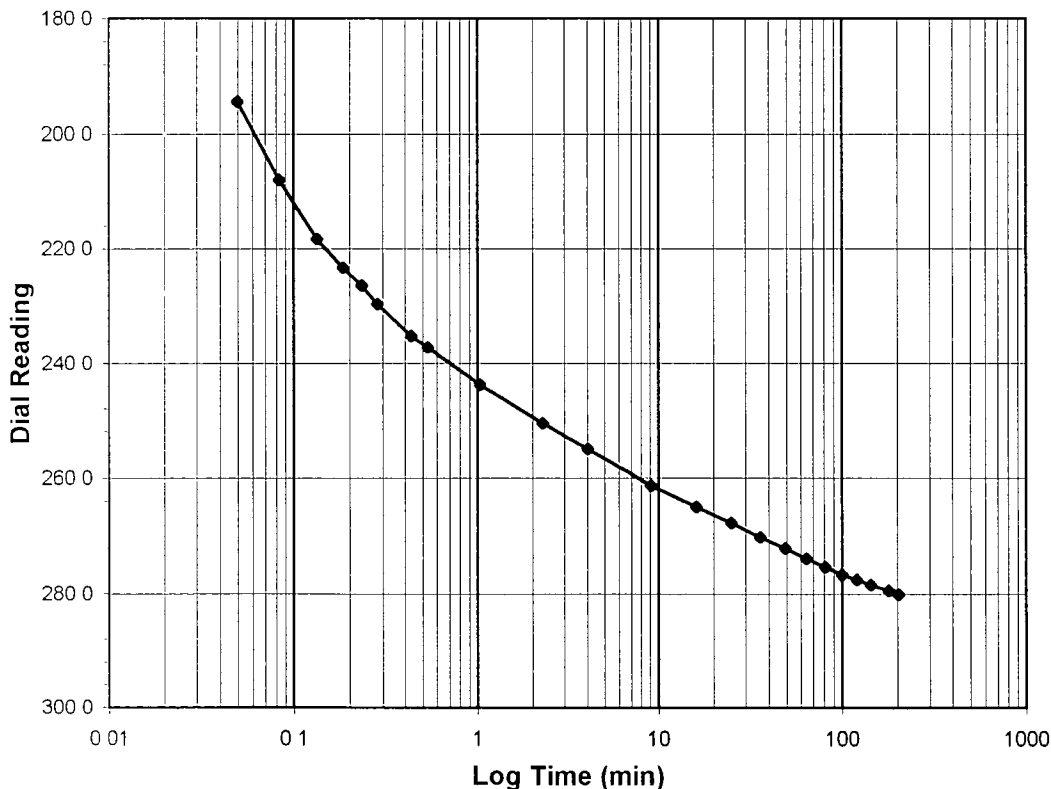
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



<b>Test Load</b>	(tsf)	<b>4.0-8.0</b>
<b>Final Reading</b>	(div)	<b>280.2</b>
Consolidometer No.		<b>G1051</b>
1 Division	(in)	0.0001

Start Date	11/3/04
Start Time	8:46:13

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>133.5</b>
0.05	194.5
0.08	208.0
0.13	218.3
0.18	223.3
0.23	226.5
0.28	229.6
0.43	235.2
0.53	237.3
1.03	243.9
2.28	250.5
4.03	255.0
9.13	261.3
16.13	265.0
25.13	267.7
36.13	270.3
49.13	272.1
64.13	273.9
81.13	275.4
100.13	276.7
121.18	277.6
144.18	278.5
180.18	279.5
203.92	280.1
204.12	280.2



Tested By **TM** Date **11/3/04** Checked By **GU** Date **11/10/04**



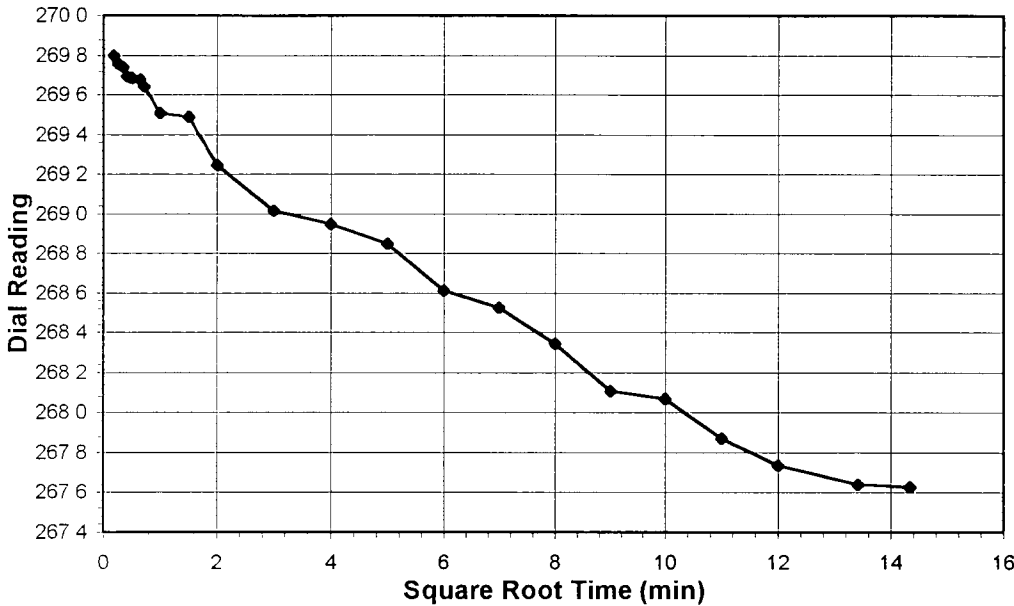


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLUND, BOUCK, & LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-04	Sample No.	SS51-R-POST S/T
Lab ID	2004-221-04-01	Visual Description	BROWN STABILIZED MATERIAL

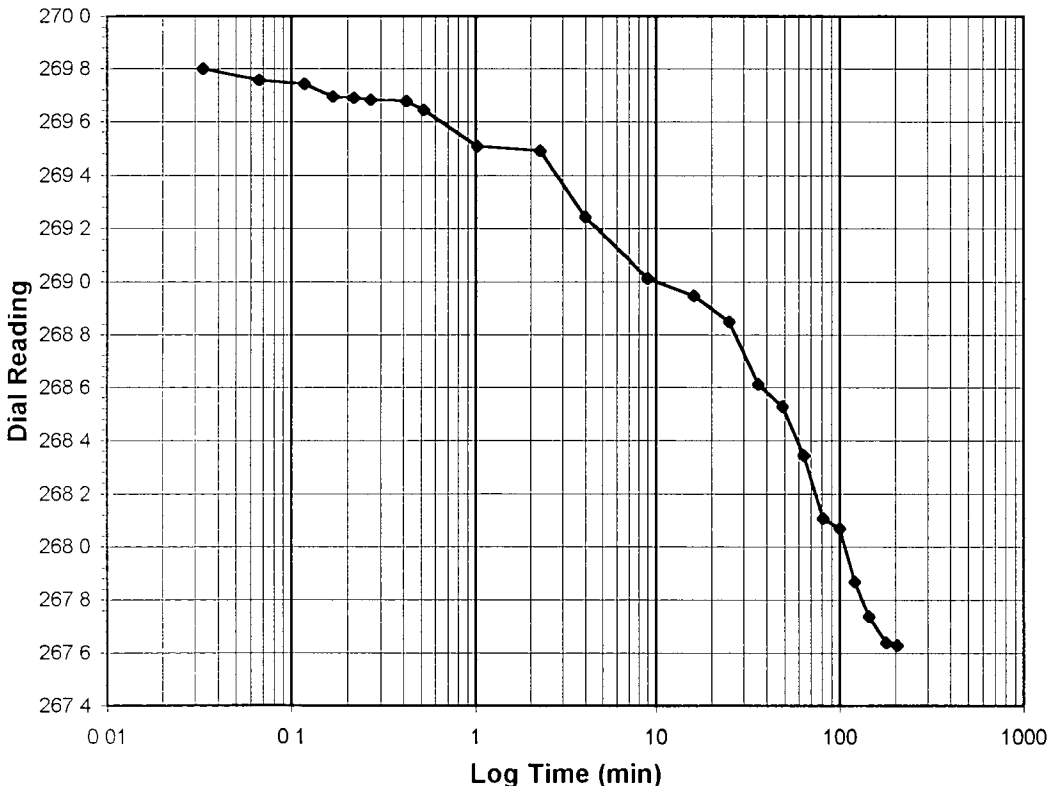
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



<b>Test Load</b>	(tsf)	<b>8.0-4.0</b>
<b>Final Reading</b>	(div)	<b>267.6</b>
Consolidometer No.		<b>G1051</b>
1 Division	(in)	0.0001

Start Date	11/3/04
Start Time	12:15:56

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>280.2</b>
0.03	269.8
0.07	269.8
0.12	269.7
0.17	269.7
0.22	269.7
0.27	269.7
0.42	269.7
0.52	269.6
1.02	269.5
2.27	269.5
4.02	269.2
9.02	269.0
16.02	268.9
25.02	268.8
36.02	268.6
49.02	268.5
64.02	268.3
81.02	268.1
100.02	268.1
121.02	267.9
144.02	267.7
180.02	267.6
205.87	267.6



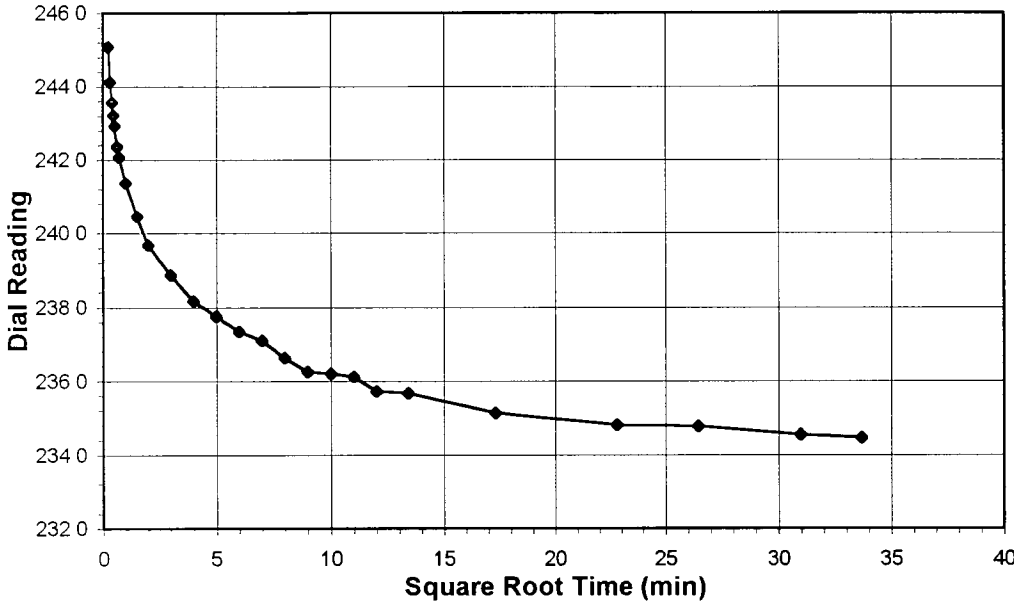
Tested By **TM** Date **11/3/04** Checked By **GU** Date **11/10/04**



**ONE DIMENSIONAL CONSOLIDATION**  
ASTM D 2435-96 (SOP-S24A)

Client	BLASLUND, BOUCK, & LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-04	Sample No.	SS51-R-POST S/T
Lab ID	2004-221-04-01	Visual Description	BROWN STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED

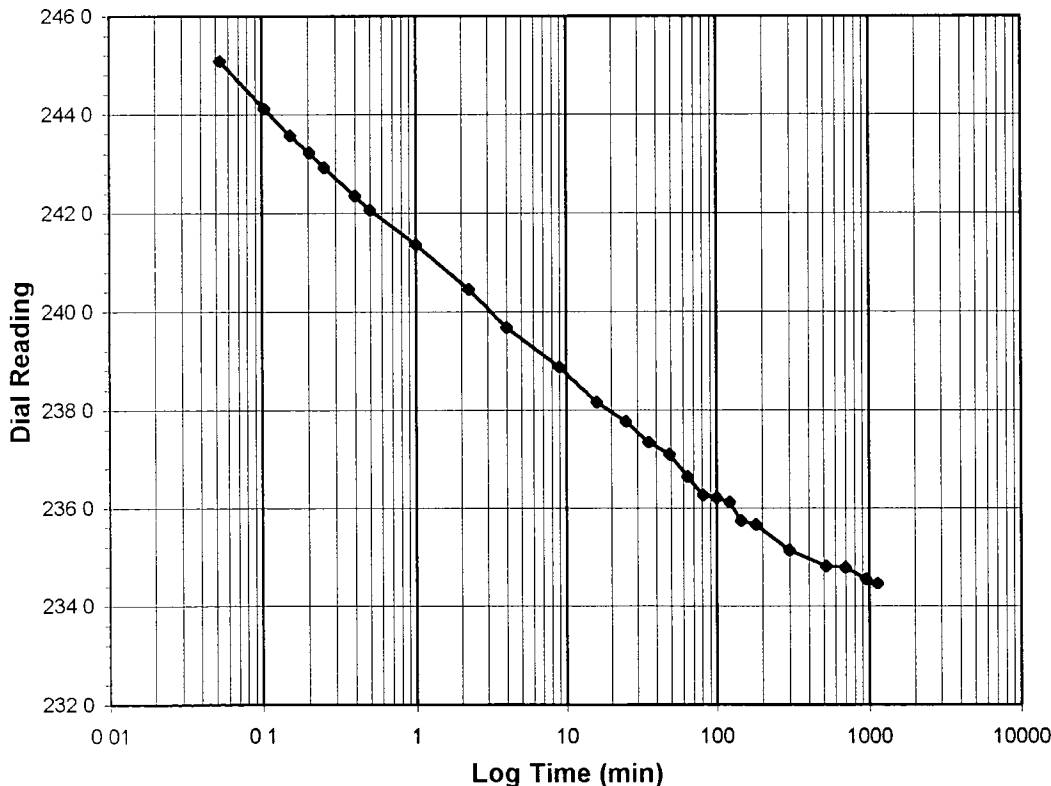


Test Load (tsf)	4.0-1.0
Final Reading (div)	234.5
Consolidometer No.	G1051
1 Division (in)	0.0001

Start Date	11/3/04
Start Time	15:49:58

Elapsed Time (min)	Dial Reading (div)
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<b>Initial</b>	<b>267.6</b>
0.05	245.1
0.10	244.1
0.15	243.6
0.20	243.2
0.25	242.9
0.40	242.4
0.50	242.1
1.00	241.4
2.25	240.5
4.00	239.7
9.00	238.9
16.00	238.2
25.00	237.8
36.00	237.3
49.00	237.1
64.00	236.6
81.00	236.3
100.00	236.2
121.00	236.1
144.00	235.7
180.00	235.7
300.00	235.1
520.00	234.8
700.00	234.8
960.00	234.6
1136.00	234.5



Tested By TM Date 11/3/04 Checked By GU Date 11/10/04

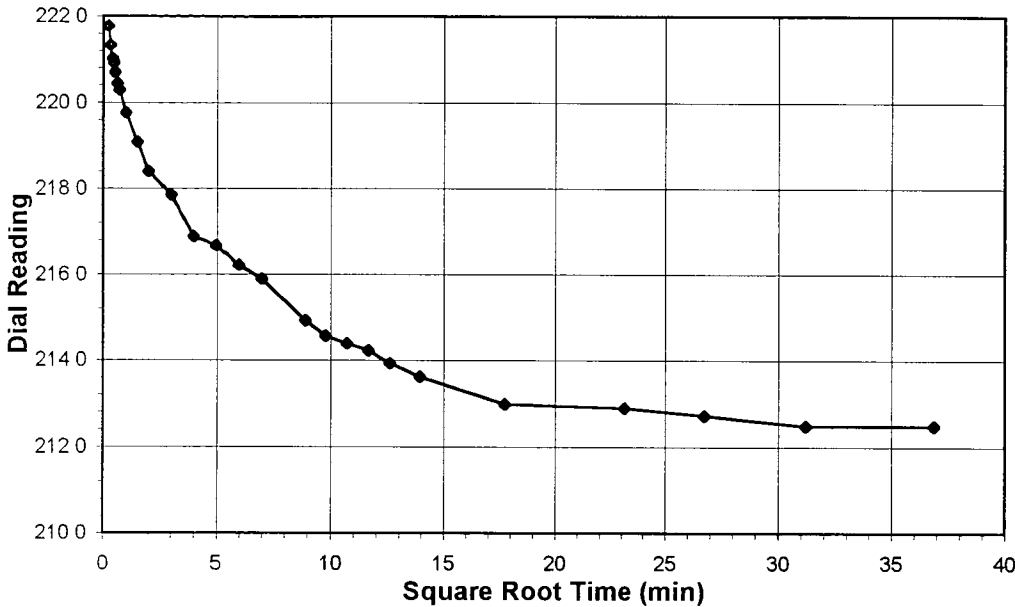
# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)



Client	BLASLUND, BOUCK, & LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-04	Sample No.	SS51-R-POST S/T
Lab ID	2004-221-04-01	Visual Description	BROWN STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED

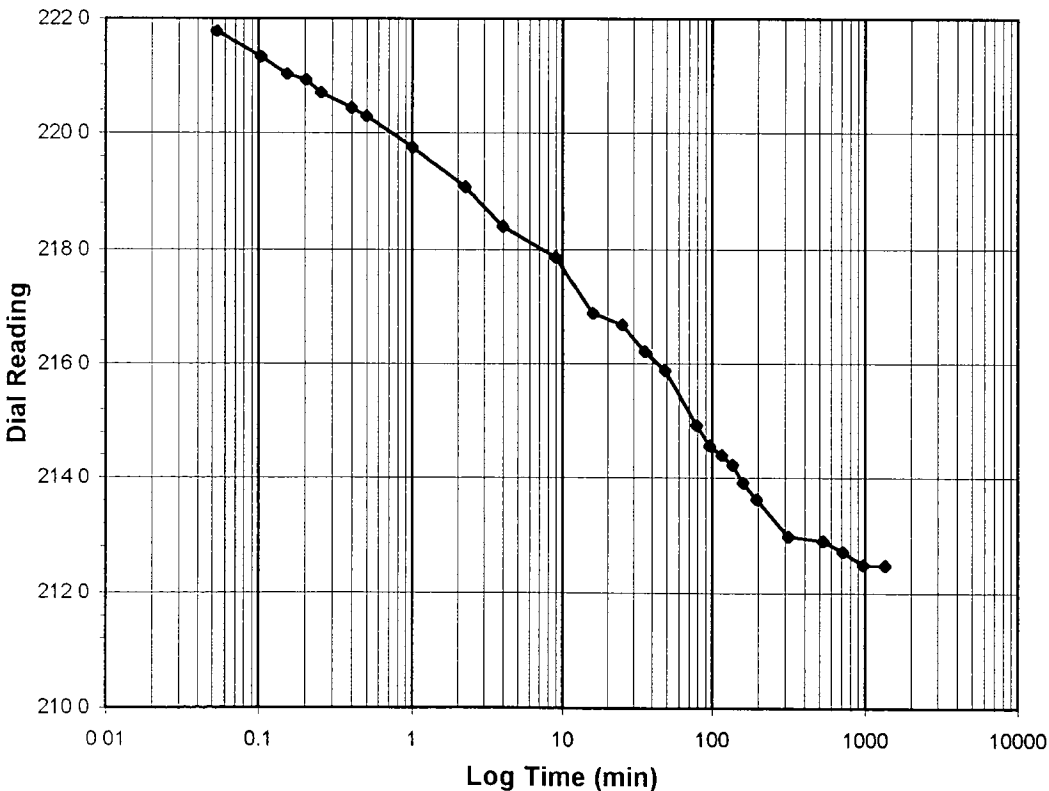


Test Load (tsf)	1.0-0.25
Final Reading (div)	212.5
Consolidometer No.	G1051
1 Division (in)	0.0001

Start Date	11/4/04
Start Time	10:58:17

Elapsed Time (min)	Dial Reading (div)
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<b>Initial</b>	<b>234.5</b>
0.05	221.8
0.10	221.3
0.15	221.0
0.20	220.9
0.25	220.7
0.40	220.4
0.50	220.3
1.00	219.8
2.25	219.1
4.00	218.4
9.00	217.9
16.00	216.9
25.00	216.7
36.00	216.2
49.00	215.9
79.00	214.9
96.00	214.6
115.00	214.4
136.00	214.2
159.00	213.9
195.00	213.6
315.00	213.0
535.00	212.9
715.00	212.7
975.00	212.5



Tested By TM Date 11/4/04 Checked By GU Date 11/10/04

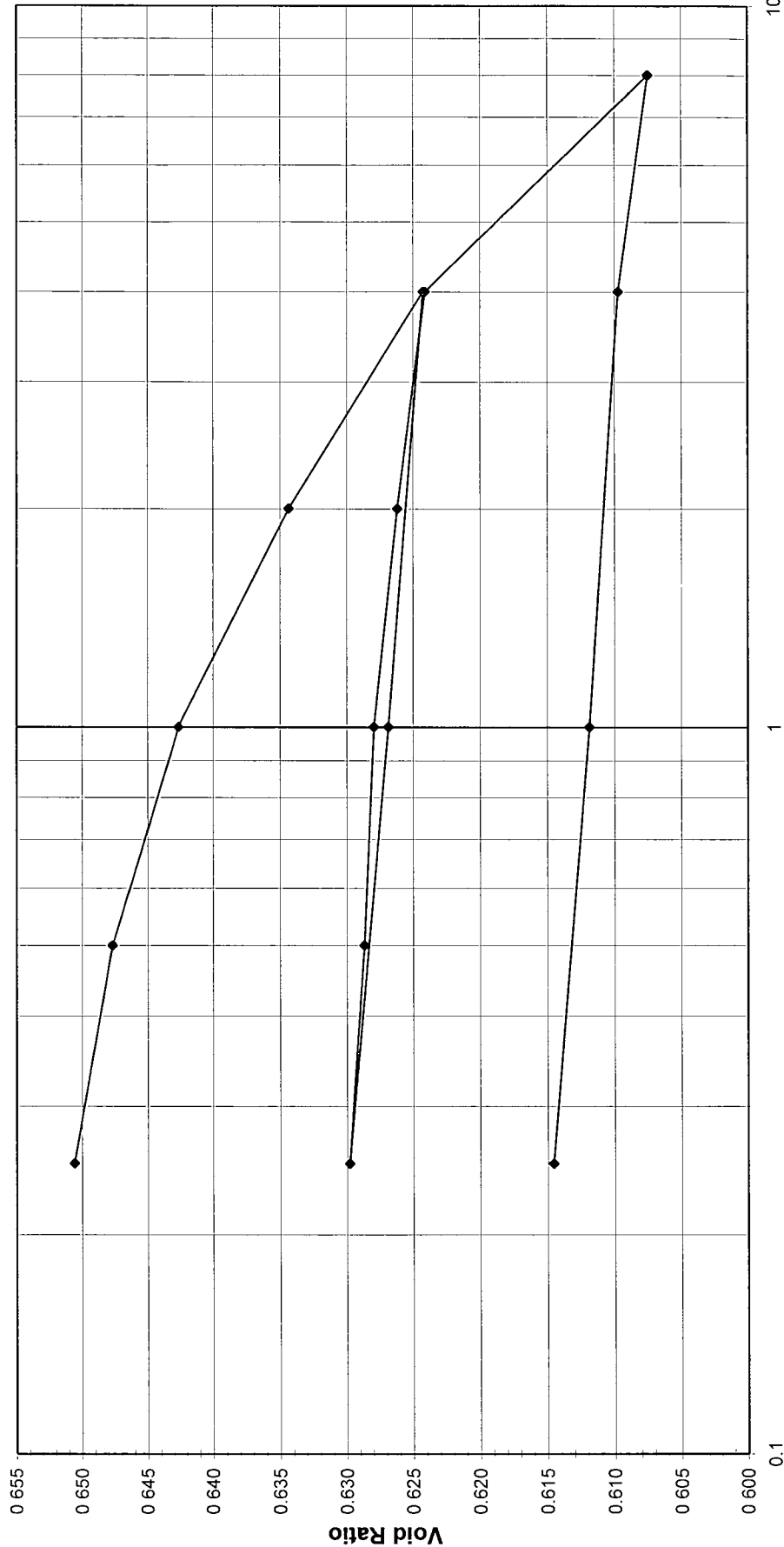


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 / AASHTO T216-03 (SOP-S24)

Client	BLASLAND, BOUCK, & LEE	Boring No.	9/22/04
Client Reference	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-04	Sample No.	SS52-R-POST S/T
Lab ID	2004-221-04-02	Visual Description	GRAY STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Log P (tsf)

Tested By TM Date 11/9/04 Approved By DB Date 11/30/04



**ONE DIMENSIONAL CONSOLIDATION**

ASTM D 2435-96 / AASHTO T216-03 (SOP-S24)

Client	BLASLAND, BOUCK, & LEE	Boring No.	9/22/04
Client Reference	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-04	Sample No.	SS52-R-POST S/T
Lab ID	2004-221-04-02	Visual Description	GRAY STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED

**Consolidometer No.** 4

**1 Division** = 0.0001 (in)

**Sample Properties**

	<u>Initial</u>	<u>Final</u>
<i>Water Content</i>		
Tare Number	1399	40
Wt. Tare & WS (gm)	172.34	202.32
Wt. Tare & DS (gm)	154.83	184.15
Wt. Water (gm)	17.51	18.17
Wt. Tare (gm)	38.17	101.53
Wt. DS (gm)	116.66	82.62
Water Content (%)	15.01	21.99

*Sample Parameters*

Sample Diameter (in)	2.5	2.5
Sample Height (in)	0.75	0.732
Sample Volume (cc)	60.33	58.88
Wt. Wet Sample + Ring (gm)	190.93	197.81
Wt. of Ring (gm)	77.69	77.69
Wt. of Wet Sample (gm)	113.24	120.12
Wet Density (pcf)	117.13	127.30
Wet Density (g/cc)	1.88	2.04
Water Content (%)	15.01	21.99
Wt. of Dry Sample (gm)	98.46	98.46
Dry Density (pcf)	101.84	104.35
Dry Density (g/cc)	1.63	1.67
Void Ratio	0.6544	0.6146
Saturation (%)	61.93	96.62
Specific Gravity	2.70	Assumed

**Test Data Summary**

Applied Pressure (tsf)	Final Dial Reading (div)	Machine Deflection (div)	Corrected Reading (div)	Height of Sample (mm)	Volume (cc)	Dry Density (g/cc)	Void Ratio
Seating	0	0	0	19.050	60.330	1.63205	<b>0.65436</b>
0.25	23.7	6.6	17.1	19.007	60.192	1.63578	<b>0.65059</b>
0.5	42.0	11.7	30.3	18.973	60.086	1.63867	<b>0.64768</b>
1	71.7	18.5	53.2	18.915	59.902	1.64371	<b>0.64262</b>
2	119.2	28.5	90.7	18.820	59.600	1.65203	<b>0.63435</b>
4	177.7	41.2	136.5	18.703	59.232	1.66231	<b>0.62425</b>
1	155.5	30.8	124.7	18.733	59.327	1.65965	<b>0.62685</b>
0.25	126.0	14.6	111.4	18.767	59.434	1.65666	<b>0.62979</b>
0.5	130.9	14.5	116.4	18.754	59.394	1.65778	<b>0.62868</b>
1	141.4	21.6	119.8	18.746	59.366	1.65854	<b>0.62793</b>
2	157.1	29.4	127.7	18.726	59.303	1.66032	<b>0.62619</b>
4	178.7	41.6	137.1	18.702	59.227	1.66244	<b>0.62412</b>
8	265.7	53.3	212.4	18.511	58.621	1.67962	<b>0.60751</b>
4	253.7	51.3	202.4	18.536	58.702	1.67732	<b>0.60971</b>
1	229.4	36.7	192.7	18.561	58.780	1.67509	<b>0.61185</b>
0.25	200.1	19.7	180.4	18.592	58.879	1.67228	<b>0.61457</b>

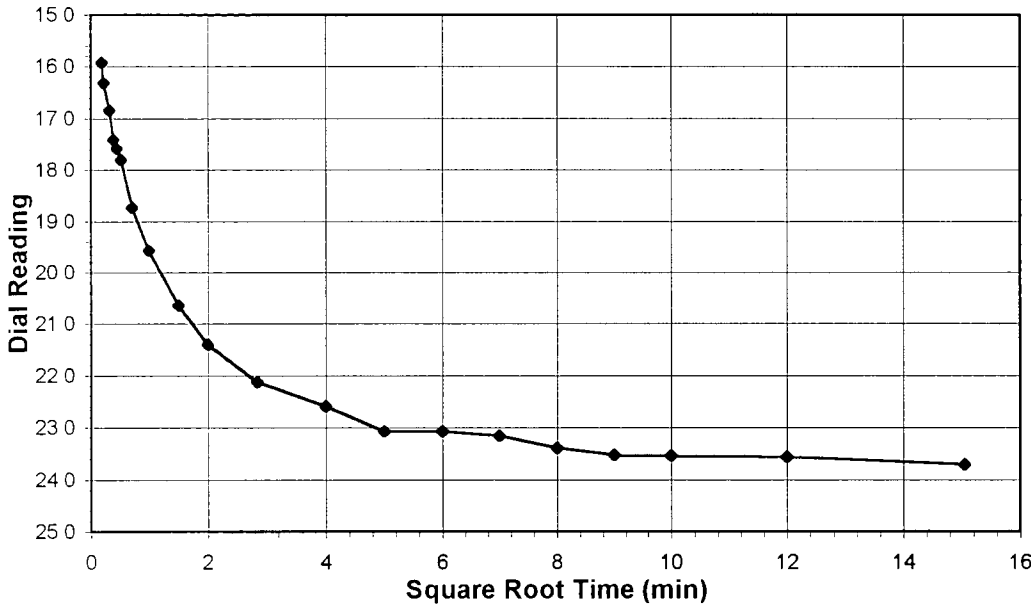
Tested By TM Date 11/9/04 Input Checked By GL Date 11/30/04



**ONE DIMENSIONAL CONSOLIDATION**  
ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-04	Sample No.	SS52-R-POST S/T
Lab ID	2004-221-04-02	Visual Description	GRAY STABILIZED MATERIAL

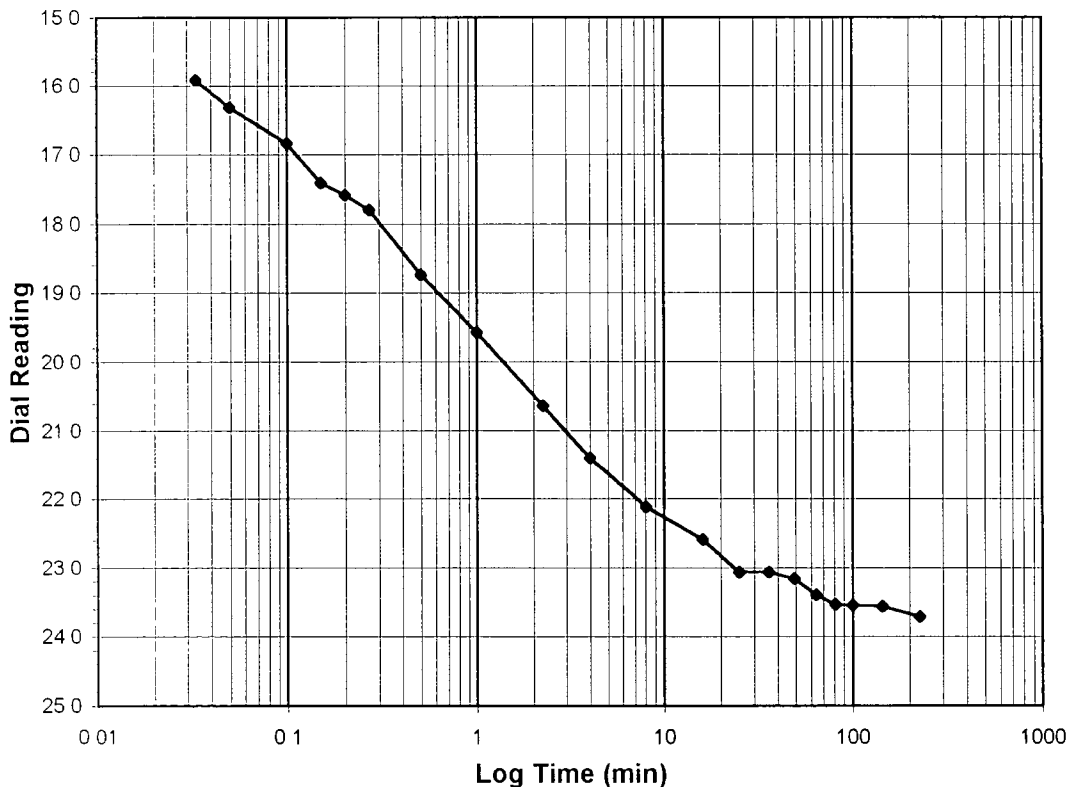
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



**Test Load (tsf)** 0-0.25  
**Final Reading (div)** 23.7  
 Consolidometer No. 4  
 1 Division (in) 0.0001

**Start Date** 11/9/04  
**Start Time** 12:24:14

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<i>0.0</i>
0.03	15.9
0.05	16.3
0.10	16.8
0.15	17.4
0.20	17.6
0.27	17.8
0.50	18.7
1.00	19.6
2.25	20.6
4.00	21.4
8.05	22.1
16.02	22.6
25.00	23.1
36.02	23.1
49.00	23.2
64.00	23.4
81.00	23.5
100.00	23.5
144.00	23.6
226.37	23.7



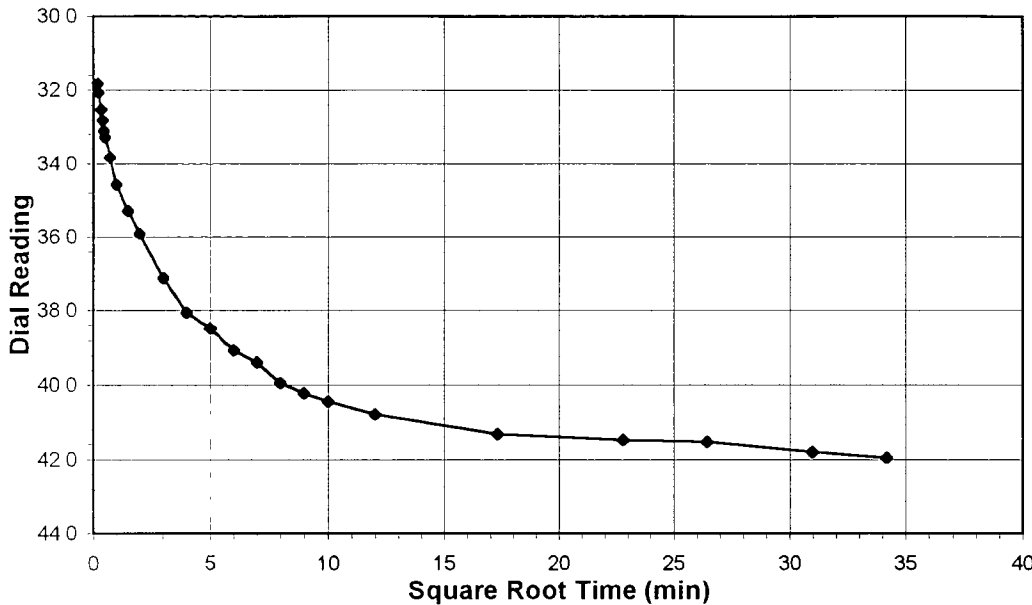
Tested By *TM* Date *11/9/04* Checked By *CU* Date *11/30/04*



**ONE DIMENSIONAL CONSOLIDATION**  
ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-04	Sample No.	SS52-R-POST S/T
Lab ID	2004-221-04-02	Visual Description	GRAY STABILIZED MATERIAL

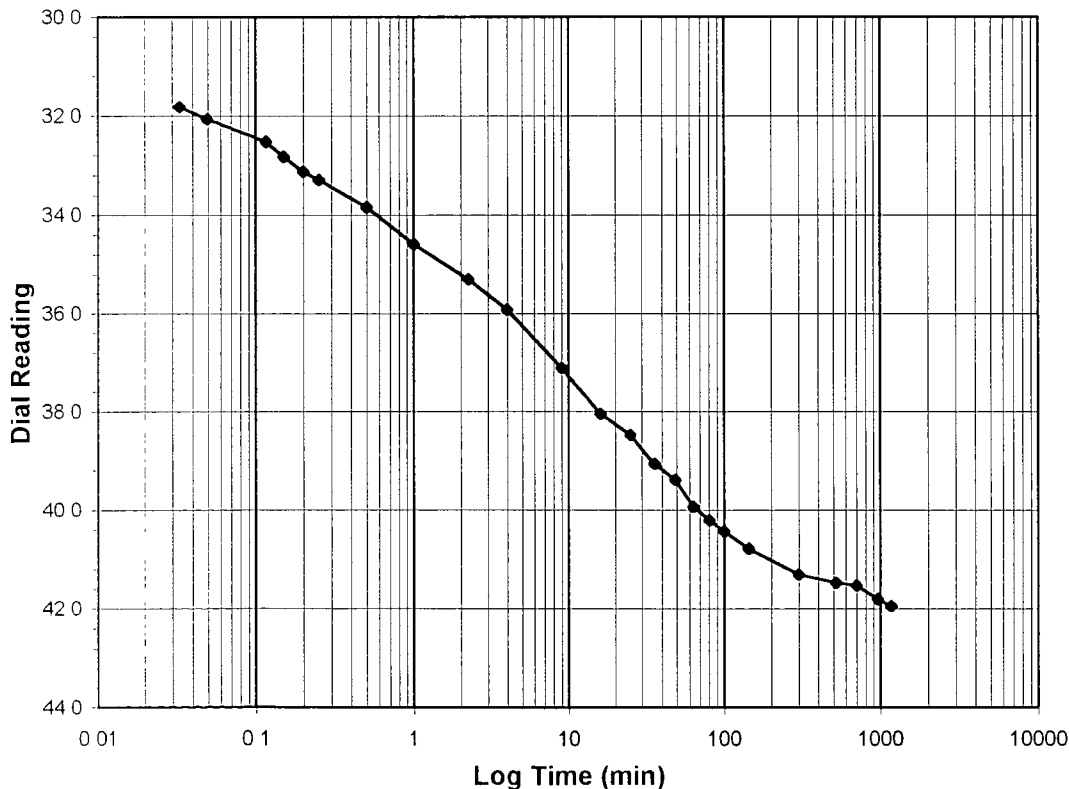
**Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED**



**Test Load (tsf)** 0.25-0.5  
**Final Reading (div)** 42.0  
 Consolidometer No. 4  
 1 Division (in) 0.0001

**Start Date** 11/9/04  
**Start Time** 16:27:58

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	23.7
0.03	31.8
0.05	32.1
0.12	32.5
0.15	32.8
0.20	33.1
0.25	33.3
0.50	33.8
1.00	34.6
2.25	35.3
4.00	35.9
9.02	37.1
16.00	38.1
25.00	38.5
36.00	39.1
49.00	39.4
64.00	39.9
81.00	40.2
100.00	40.4
144.00	40.8
300.00	41.3
520.00	41.5
700.00	41.5
960.00	41.8
1169.45	42.0



Tested By TM Date 11/9/04 Checked By GU Date 11/30/04

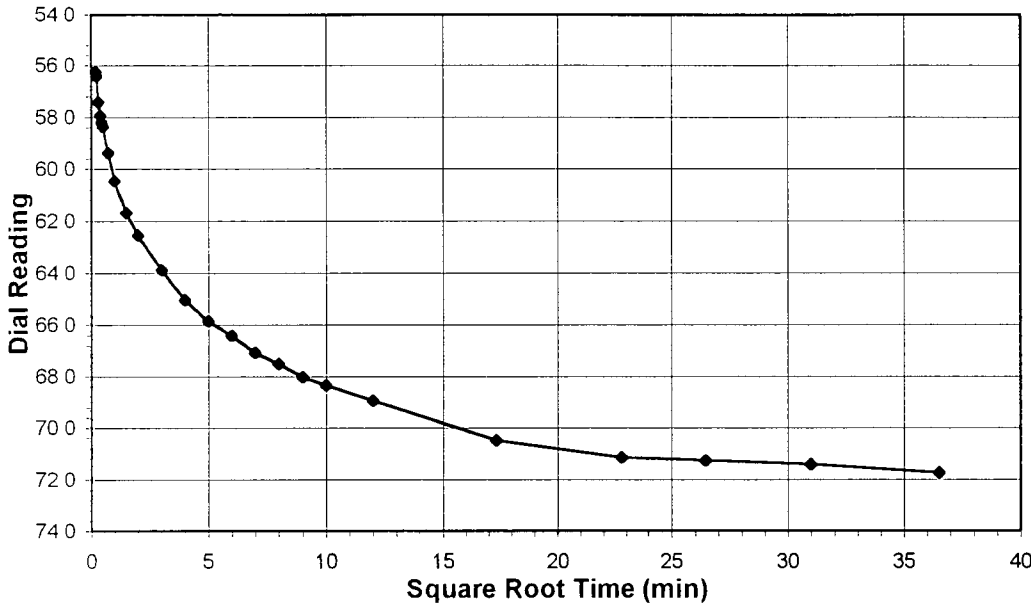


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-04	Sample No.	SS52-R-POST S/T
Lab ID	2004-221-04-02	Visual Description	GRAY STABILIZED MATERIAL

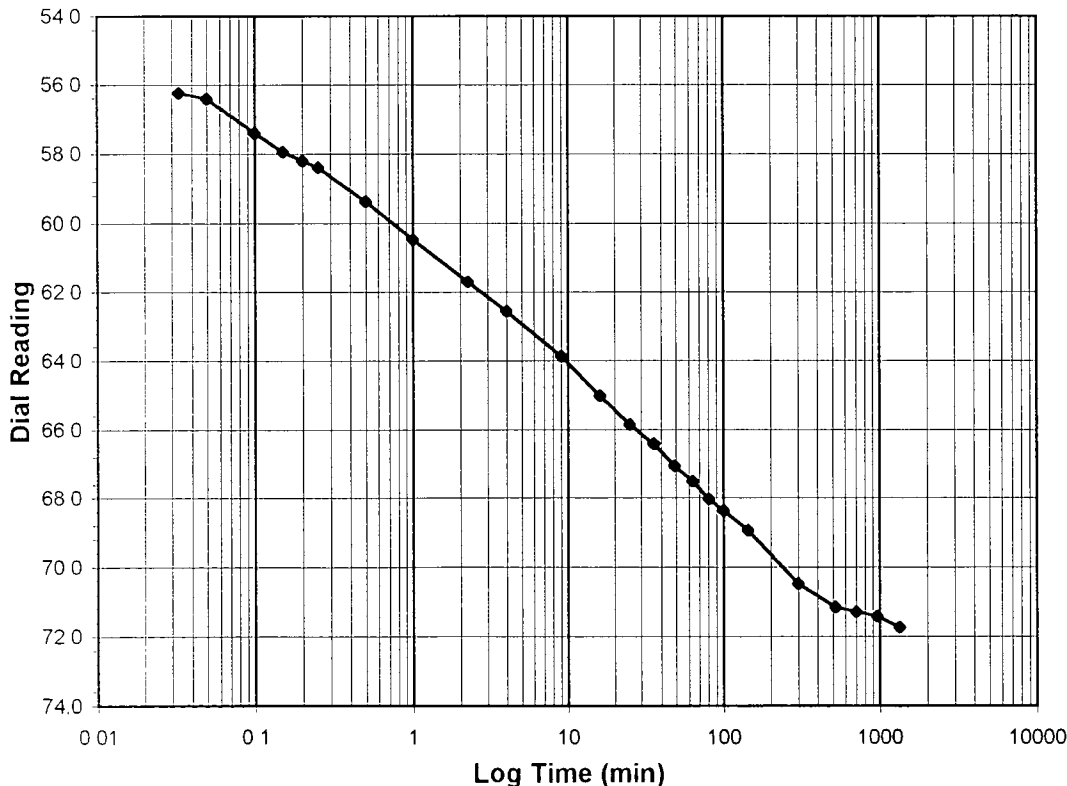
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



<b>Test Load (tsf)</b>	<b>0.5-1.0</b>
<b>Final Reading (div)</b>	<b>71.7</b>
Consolidometer No.	4
1 Division (in)	0.0001

Start Date	11/10/04
Start Time	12:10:04

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>42.0</b>
0.03	56.2
0.05	56.4
0.10	57.4
0.15	57.9
0.20	58.2
0.25	58.4
0.50	59.4
1.00	60.5
2.25	61.7
4.00	62.6
9.02	63.9
16.00	65.0
25.00	65.9
36.00	66.4
49.00	67.1
64.00	67.5
81.02	68.0
100.00	68.4
144.00	69.0
300.00	70.5
520.00	71.2
700.00	71.3
960.00	71.4
1334.08	71.7



Tested By TM Date 11/10/04 Checked By (G) Date 11/30/04



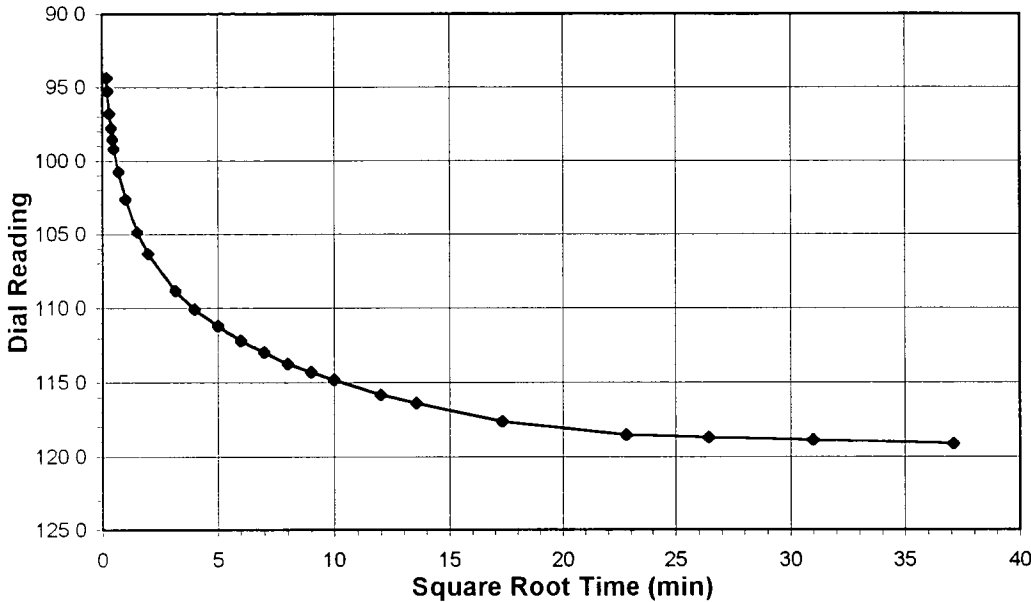


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-04	Sample No.	SS52-R-POST S/T
Lab ID	2004-221-04-02	Visual Description	GRAY STABILIZED MATERIAL

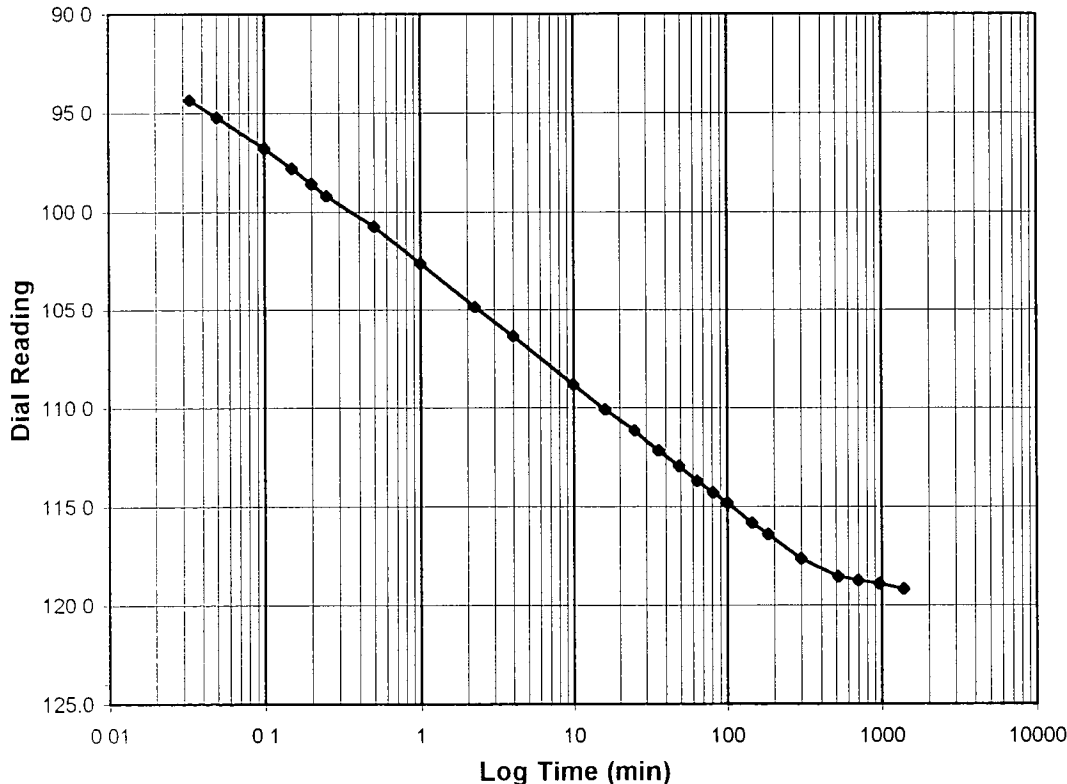
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	1.0-2.0
Final Reading (div)	119.2
Consolidometer No.	4
1 Division (in)	0.0001

Start Date	11/11/04
Start Time	10:35:52

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>71.7</b>
0.03	94.4
0.05	95.2
0.10	96.8
0.15	97.8
0.20	98.5
0.25	99.2
0.50	100.8
1.00	102.6
2.25	104.9
4.00	106.4
9.92	108.8
16.00	110.1
25.00	111.2
36.00	112.2
49.02	113.0
64.02	113.7
81.00	114.3
100.02	114.8
144.00	115.8
183.35	116.4
300.00	117.7
520.00	118.6
700.00	118.7
960.00	118.9
1377.68	119.2



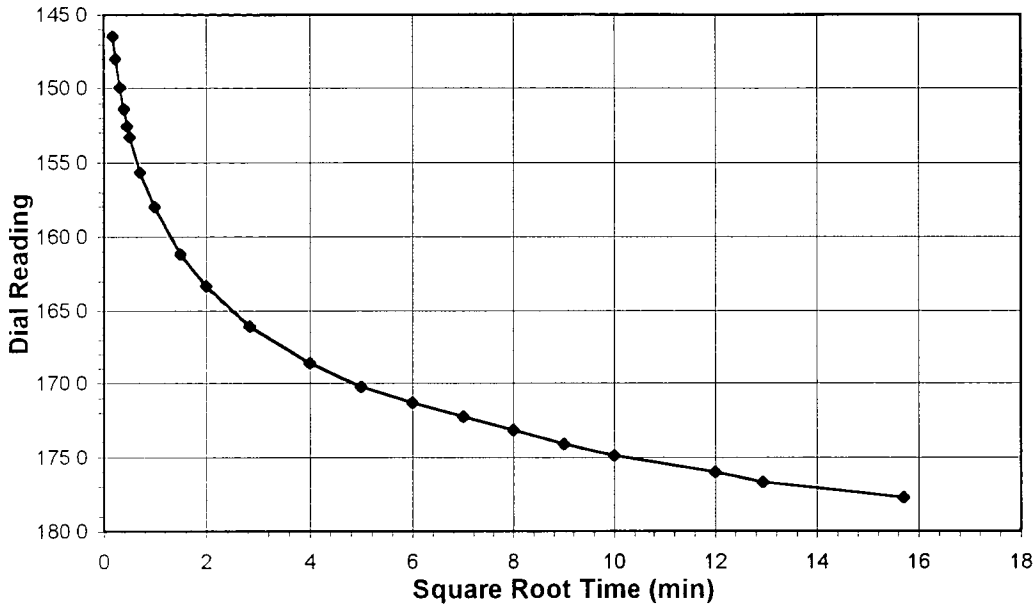
Tested By *TM* Date *11/11/04* Checked By *(G)* Date *11/30/04*

# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-04	Sample No.	SS52-R-POST S/T
Lab ID	2004-221-04-02	Visual Description	GRAY STABILIZED MATERIAL

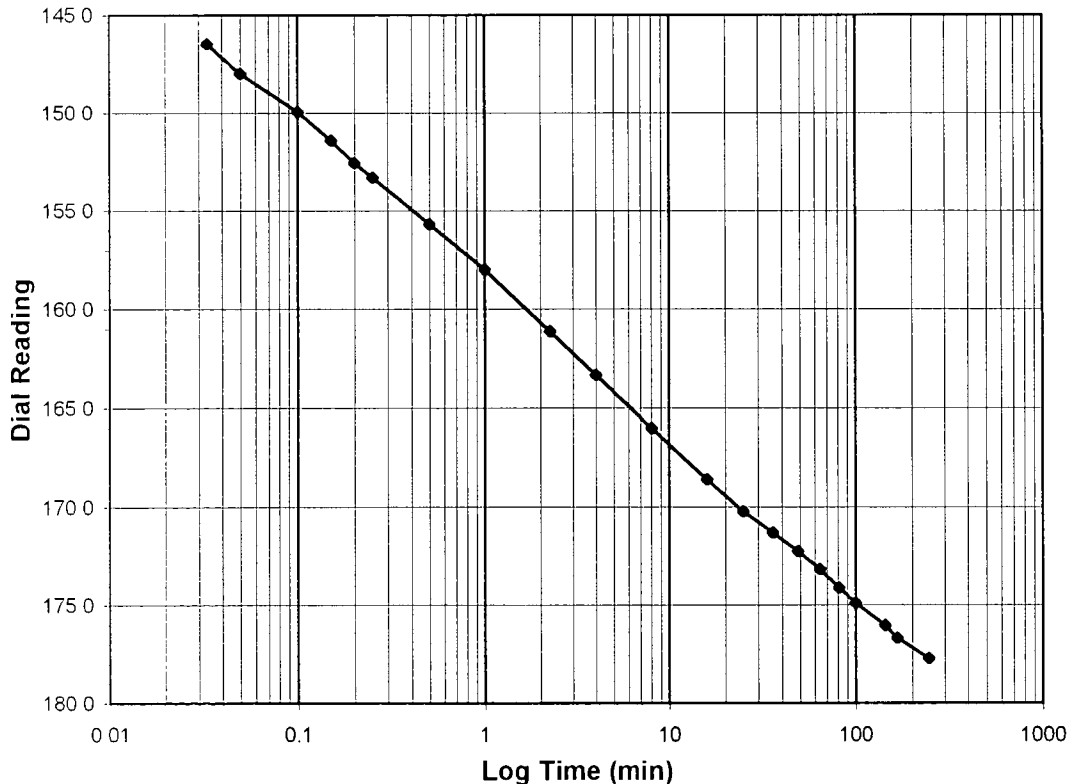
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



<b>Test Load</b>	(tsf)	2.0-4.0
<b>Final Reading</b>	(div)	177.7
Consolidometer No.		4
1 Division	(in)	0.0001

Start Date	11/12/04
Start Time	9:36:18

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>119.2</b>
0.03	146.5
0.05	148.0
0.10	150.0
0.15	151.4
0.20	152.6
0.25	153.3
0.50	155.7
1.00	158.0
2.25	161.2
4.00	163.3
8.12	166.1
16.00	168.6
25.00	170.2
36.00	171.3
49.00	172.3
64.00	173.2
81.00	174.1
100.00	174.9
144.00	176.0
167.30	176.7
246.92	177.7



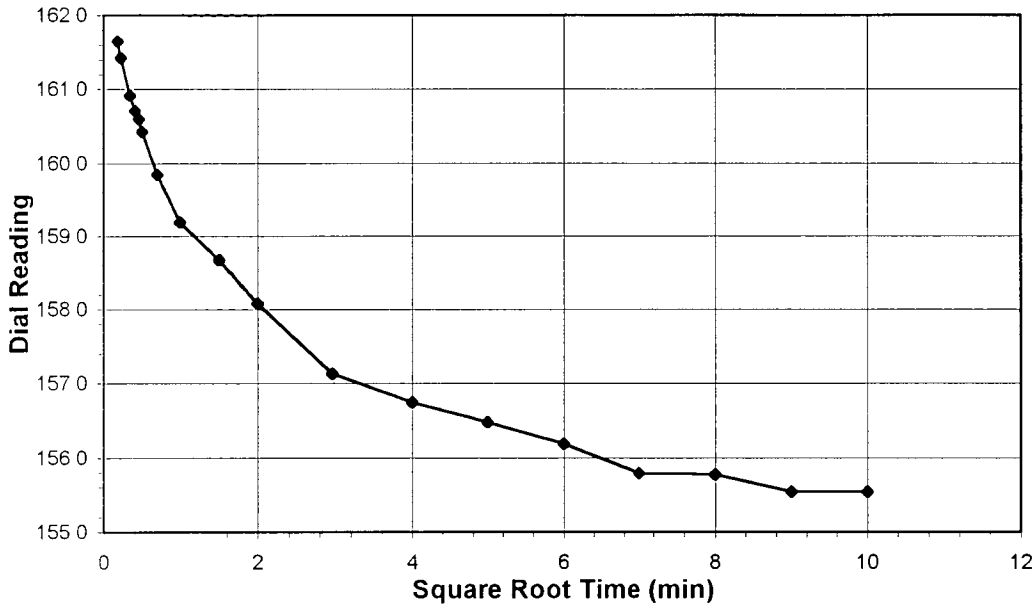
Tested By TM Date 11/12/04 Checked By GO Date 11/30/04

# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-04	Sample No.	SS52-R-POST S/T
Lab ID	2004-221-04-02	Visual Description	GRAY STABILIZED MATERIAL

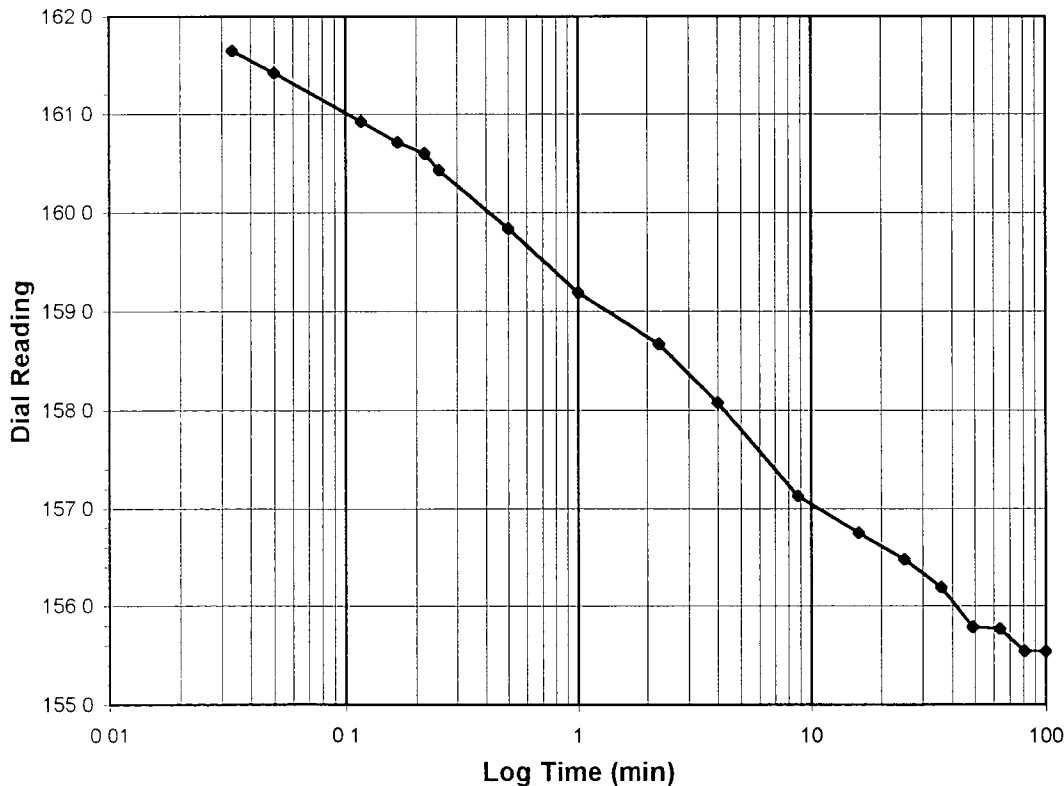
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



<b>Test Load</b>	(tsf)	<b>4.0-1.0</b>
<b>Final Reading</b>	(div)	<b>155.5</b>
Consolidometer No.		4
1 Division	(in)	0.0001

Start Date	11/12/04
Start Time	13:44:16

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>177.7</b>
0.03	161.7
0.05	161.4
0.12	160.9
0.17	160.7
0.22	160.6
0.25	160.4
0.50	159.8
1.00	159.2
2.25	158.7
4.00	158.1
8.78	157.1
16.00	156.8
25.00	156.5
36.00	156.2
49.00	155.8
64.00	155.8
81.00	155.5
100.00	155.5



Tested By *TM* Date *11/12/04* Checked By *GO* Date *11/30/04*

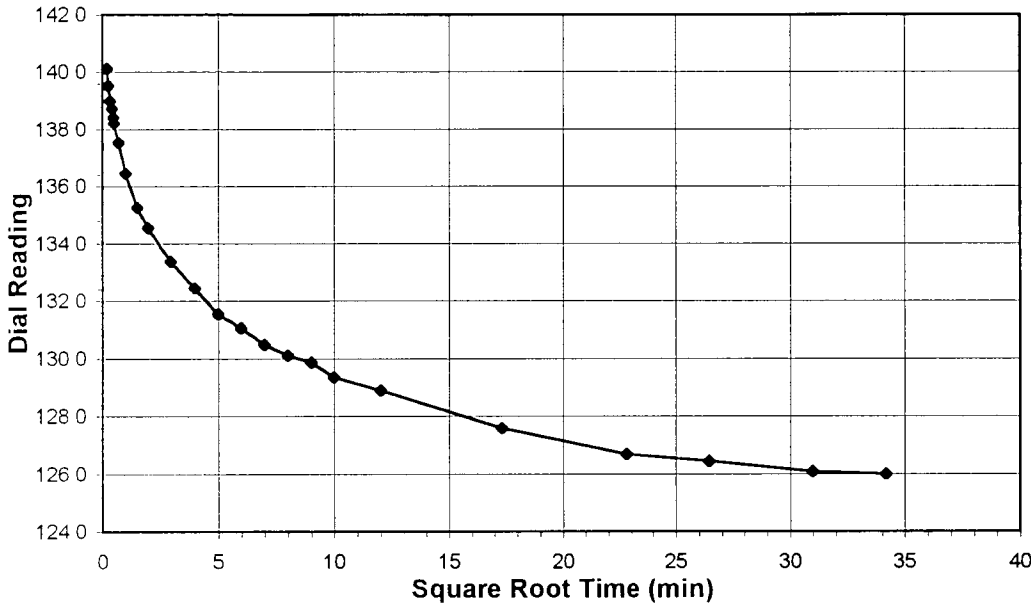


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-04	Sample No.	SS52-R-POST S/T
Lab ID	2004-221-04-02	Visual Description	GRAY STABILIZED MATERIAL

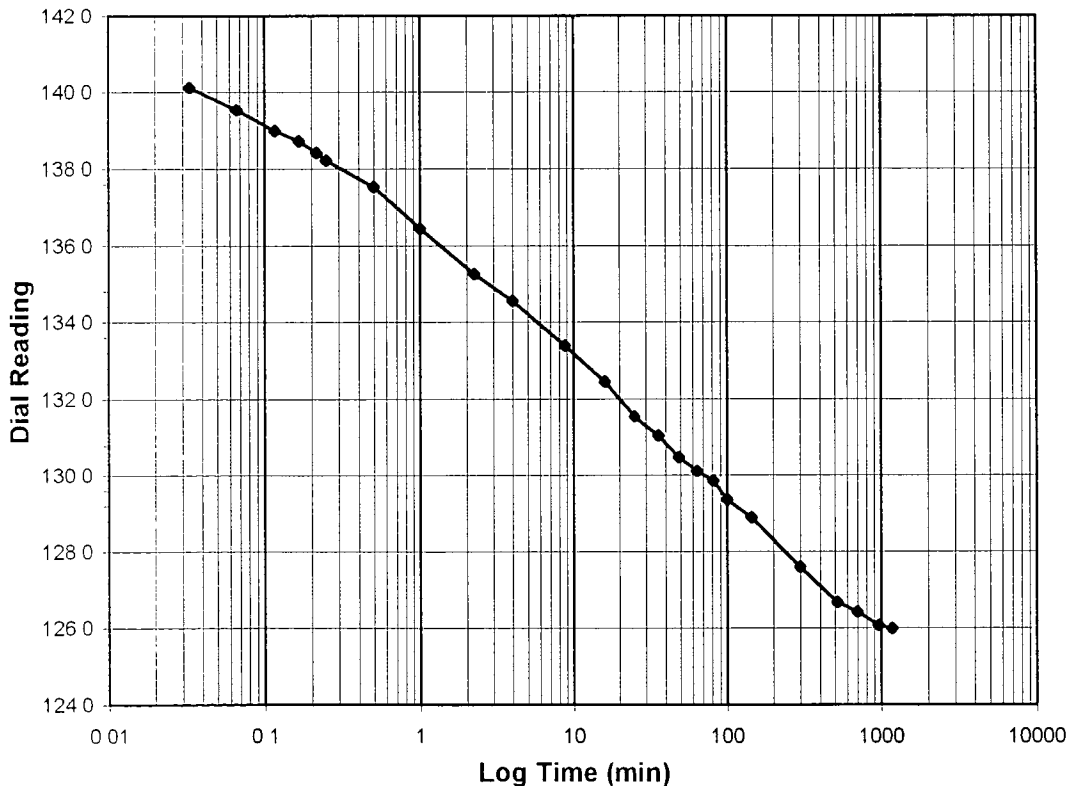
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	1.0-0.25
Final Reading (div)	126.0
Consolidometer No.	4
1 Division (in)	0.0001

Start Date	11/12/04
Start Time	15:30:30

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>155.5</b>
0.03	140.1
0.07	139.5
0.12	139.0
0.17	138.7
0.22	138.4
0.25	138.2
0.50	137.5
1.00	136.5
2.25	135.3
4.00	134.6
8.78	133.4
16.00	132.4
25.00	131.5
36.00	131.1
49.00	130.5
64.00	130.1
81.00	129.9
100.00	129.4
144.00	128.9
300.00	127.6
520.00	126.7
700.00	126.4
960.00	126.1
1167.73	126.0



Tested By *TM* Date *11/12/04* Checked By *GU* Date *11/30/04*

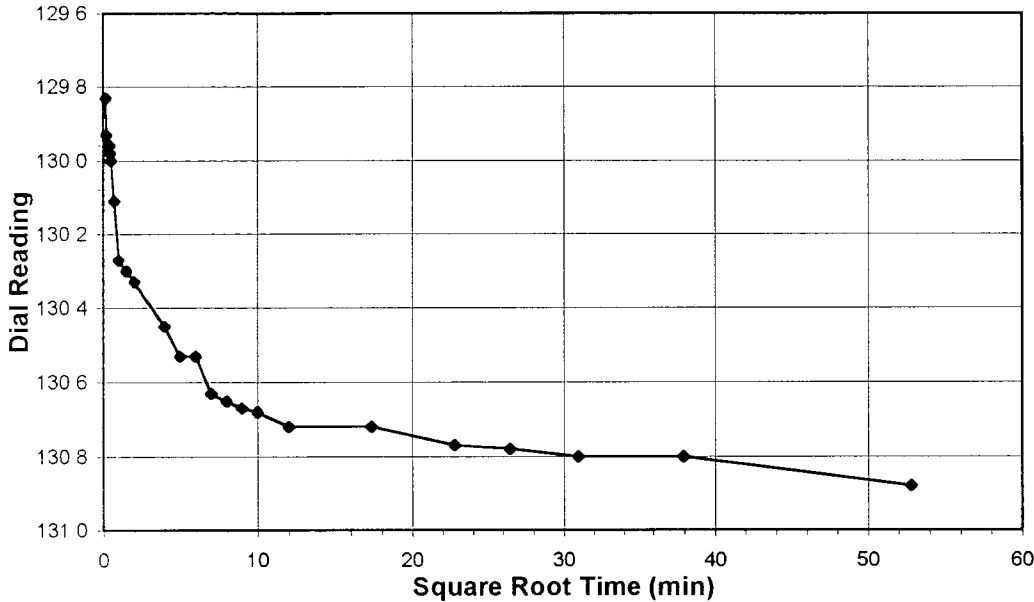


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-04	Sample No.	SS52-R-POST S/T
Lab ID	2004-221-04-02	Visual Description	GRAY STABILIZED MATERIAL

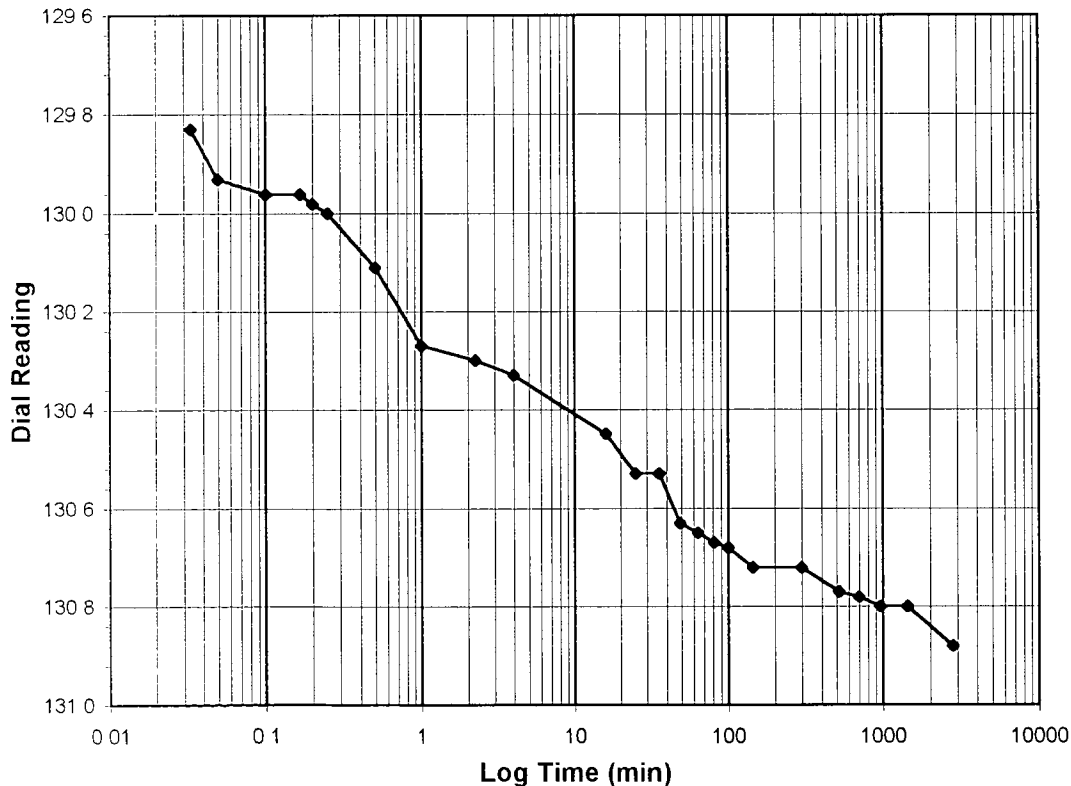
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.25-0.5
Final Reading (div)	130.9
Consolidometer No.	4
1 Division (in)	0.0001

Start Date	11/13/04
Start Time	11:12:20

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>126.0</b>
0.03	129.8
0.05	129.9
0.10	130.0
0.17	130.0
0.20	130.0
0.25	130.0
0.50	130.1
1.00	130.3
2.25	130.3
4.00	130.3
16.00	130.5
25.00	130.5
36.00	130.5
49.00	130.6
64.00	130.7
81.00	130.7
100.00	130.7
144.00	130.7
300.00	130.7
520.00	130.8
700.00	130.8
960.00	130.8
1440.00	130.8
2790.33	130.9



Tested By *TM* Date *11/13/04* Checked By *GO* Date *11/30/04*

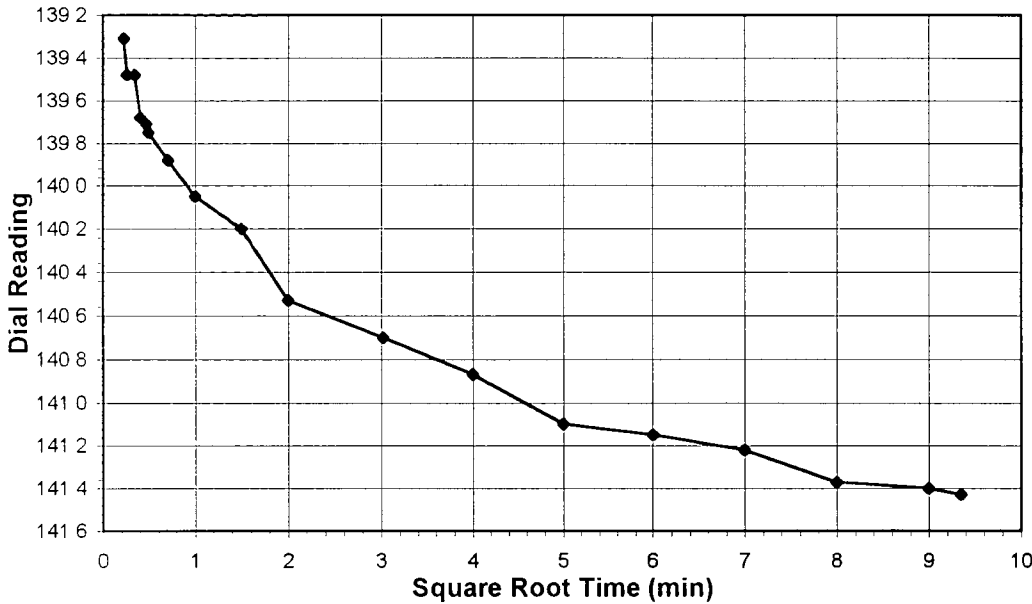


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-04	Sample No.	SS52-R-POST S/T
Lab ID	2004-221-04-02	Visual Description	GRAY STABILIZED MATERIAL

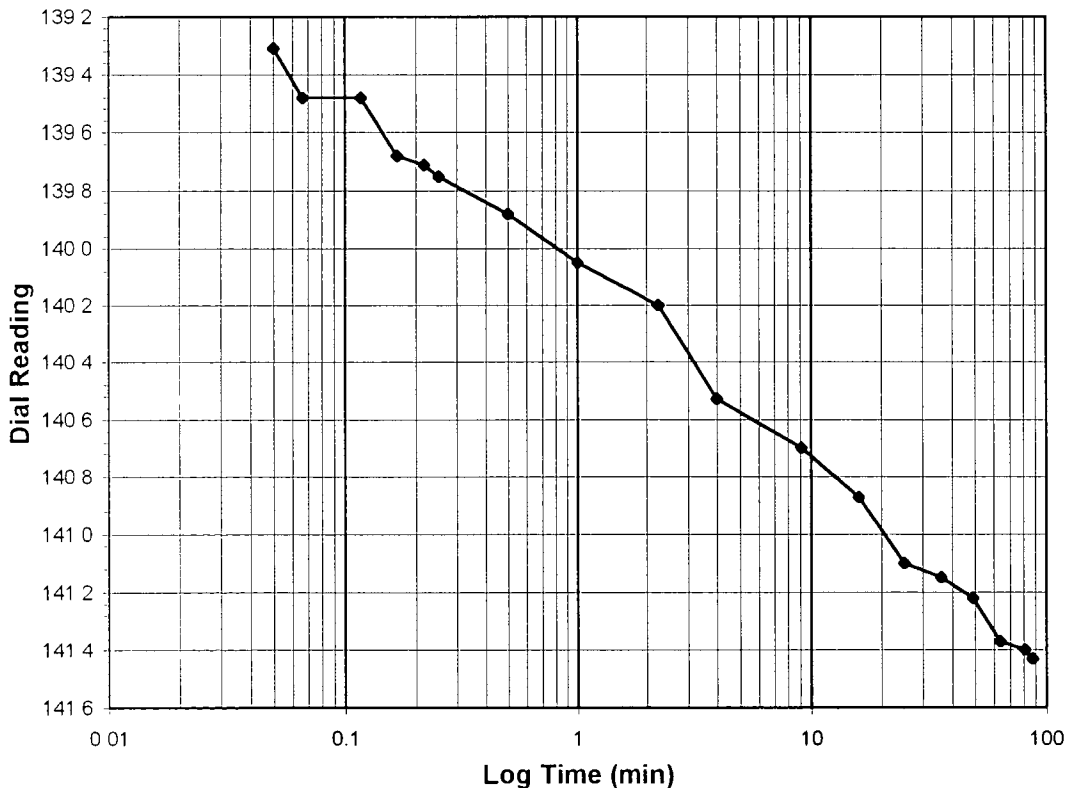
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.5-1.0
Final Reading (div)	141.4
Consolidometer No.	4
1 Division (in)	0.0001

Start Date	11/15/04
Start Time	9:54:18

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>130.9</b>
0.05	139.3
0.07	139.5
0.12	139.5
0.17	139.7
0.22	139.7
0.25	139.8
0.50	139.9
1.00	140.1
2.25	140.2
4.00	140.5
9.13	140.7
16.00	140.9
25.00	141.1
36.02	141.2
49.00	141.2
64.00	141.4
81.00	141.4
87.42	141.4



Tested By *TM* Date *11/15/04* Checked By *GO* Date *11/30/04*

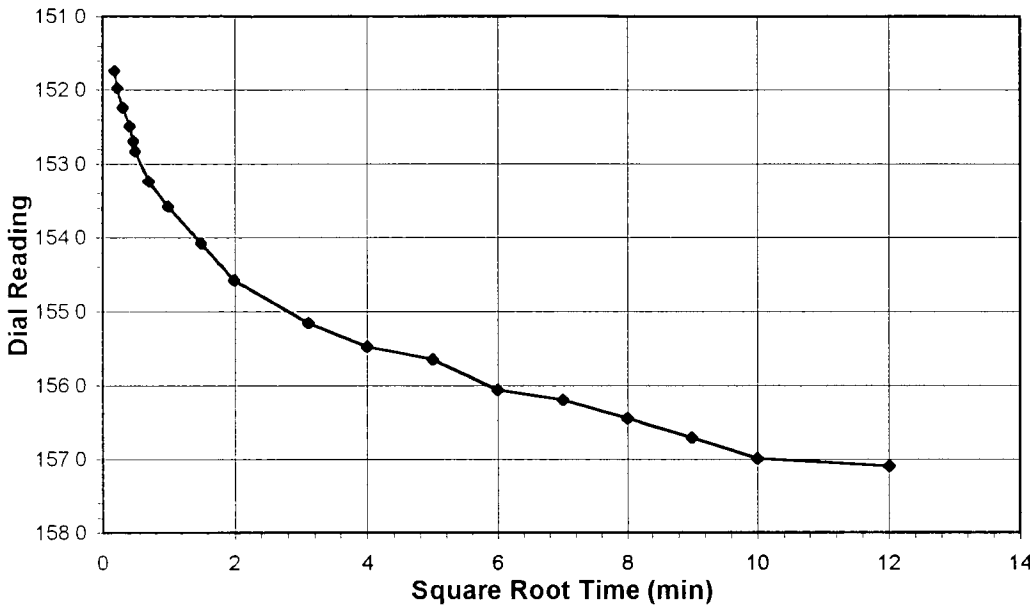


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-04	Sample No.	SS52-R-POST S/T
Lab ID	2004-221-04-02	Visual Description	GRAY STABILIZED MATERIAL

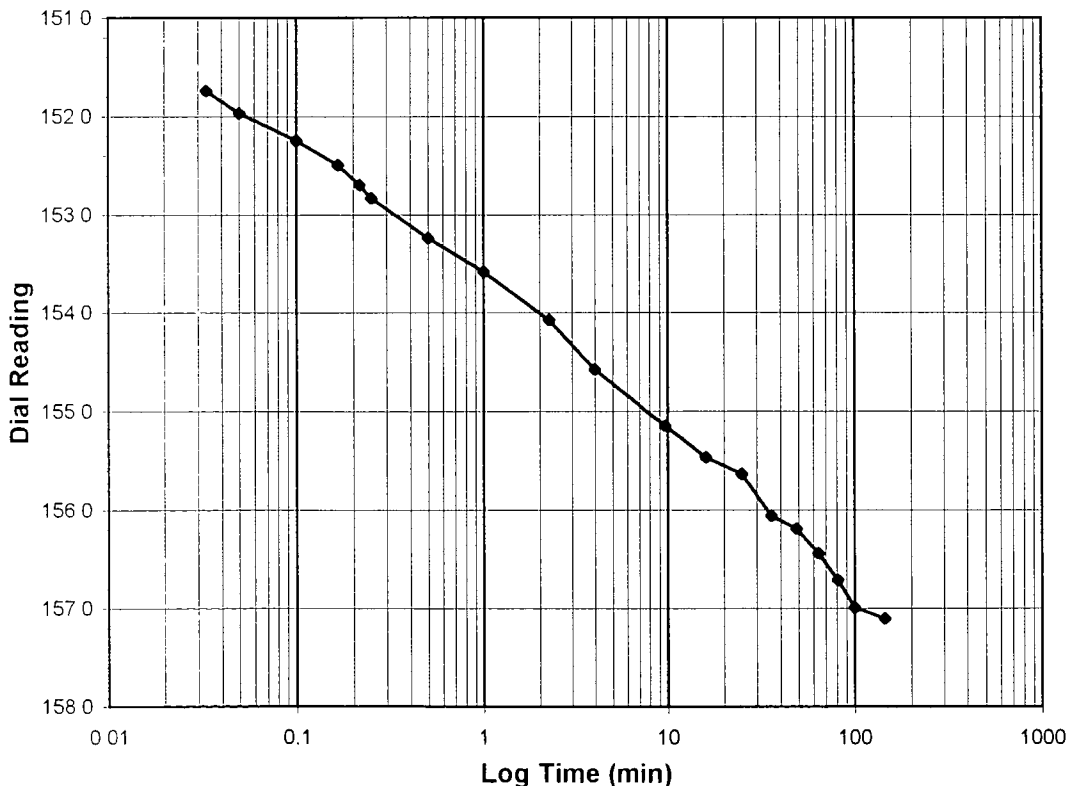
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	1.0-2.0
Final Reading (div)	157.1
Consolidometer No.	4
1 Division (in)	0.0001

Start Date	11/15/04
Start Time	11:23:45

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>141.4</b>
0.03	151.7
0.05	152.0
0.10	152.2
0.17	152.5
0.22	152.7
0.25	152.8
0.50	153.2
1.00	153.6
2.25	154.1
4.00	154.6
9.73	155.2
16.00	155.5
25.00	155.6
36.00	156.1
49.00	156.2
64.00	156.4
81.00	156.7
100.00	157.0
144.20	157.1



Tested By *TM* Date *11/15/04* Checked By *GO* Date *11/30/04*

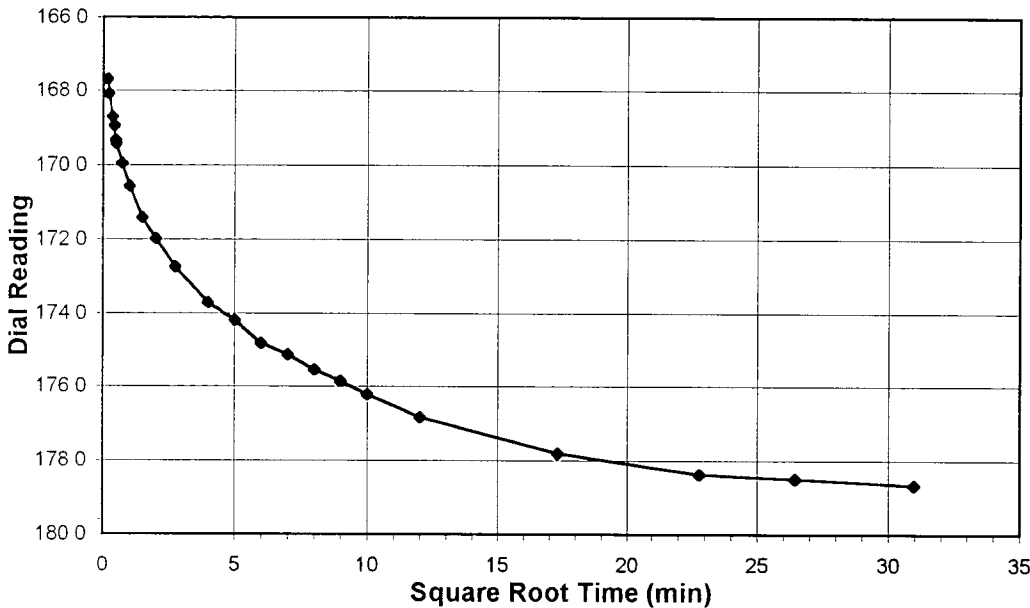


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-04	Sample No.	SS52-R-POST S/T
Lab ID	2004-221-04-02	Visual Description	GRAY STABILIZED MATERIAL

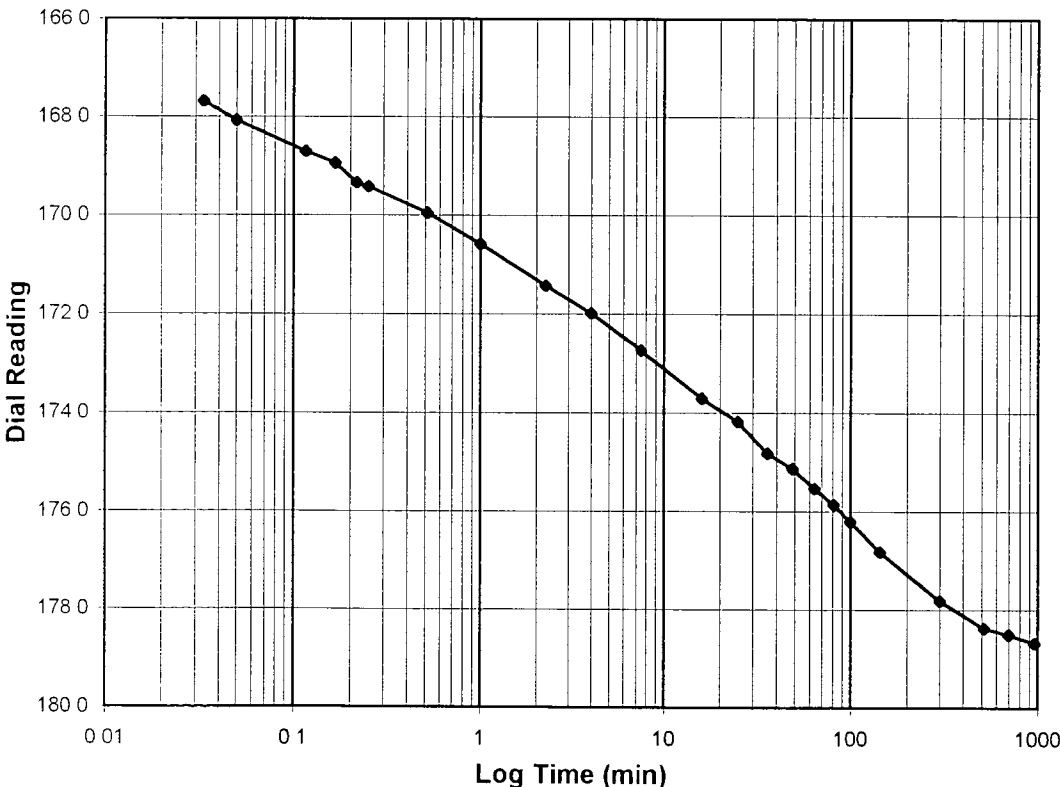
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	2.0-4.0
Final Reading (div)	178.7
Consolidometer No.	4
1 Division (in)	0.0001

Start Date	11/15/04
Start Time	13:51:37

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>157.1</b>
0.03	167.7
0.05	168.1
0.12	168.7
0.17	168.9
0.22	169.3
0.25	169.4
0.52	170.0
1.00	170.6
2.25	171.4
4.00	172.0
7.55	172.7
16.00	173.7
25.00	174.2
36.00	174.8
49.00	175.1
64.00	175.5
81.00	175.9
100.00	176.2
144.00	176.8
300.00	177.8
520.00	178.4
700.02	178.5
960.00	178.7



Tested By TM Date 11/15/04 Checked By GO Date 11/30/04

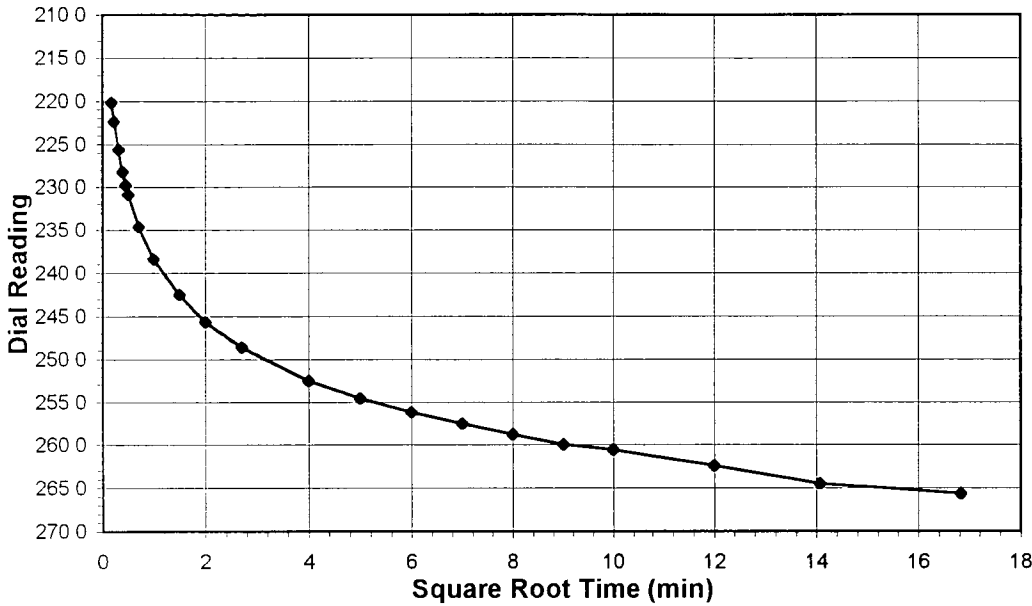




**ONE DIMENSIONAL CONSOLIDATION**  
ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-04	Sample No.	SS52-R-POST S/T
Lab ID	2004-221-04-02	Visual Description	GRAY STABILIZED MATERIAL

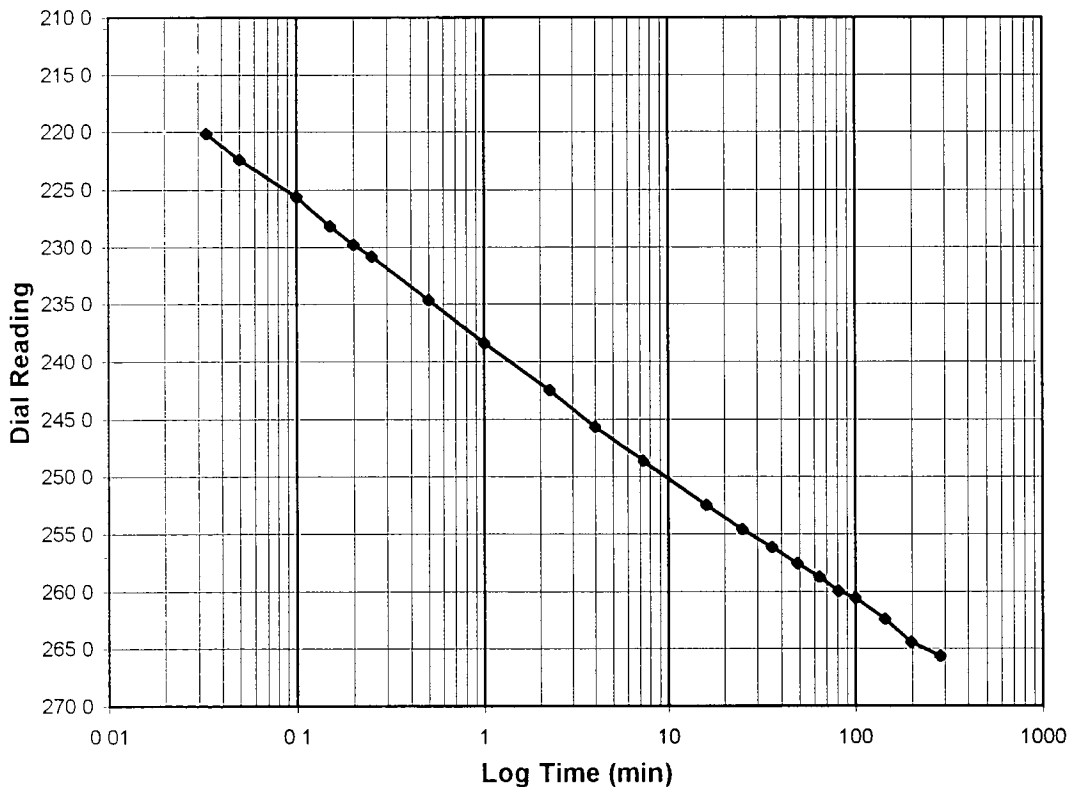
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



**Test Load (tsf)** 4.0-8.0  
**Final Reading (div)** 265.7  
 Consolidometer No. 4  
 1 Division (in) 0.0001

**Start Date** 11/16/04  
**Start Time** 10:33:43

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>178.7</b>
0.03	220.1
0.05	222.4
0.10	225.6
0.15	228.2
0.20	229.8
0.25	230.8
0.50	234.6
1.00	238.4
2.25	242.5
4.00	245.7
7.37	248.7
16.00	252.5
25.00	254.6
36.00	256.2
49.00	257.6
64.02	258.8
81.00	260.0
100.00	260.6
144.00	262.4
198.08	264.4
283.25	265.7



Tested By *TM* Date *11/16/04* Checked By *GU* Date *11/30/04*

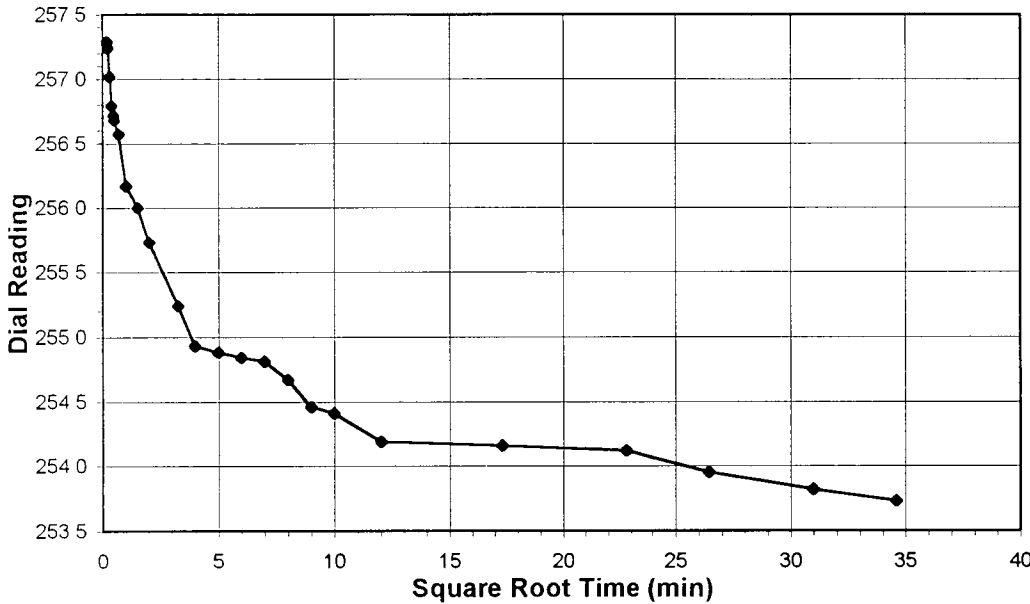


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-04	Sample No.	SS52-R-POST S/T
Lab ID	2004-221-04-02	Visual Description	GRAY STABILIZED MATERIAL

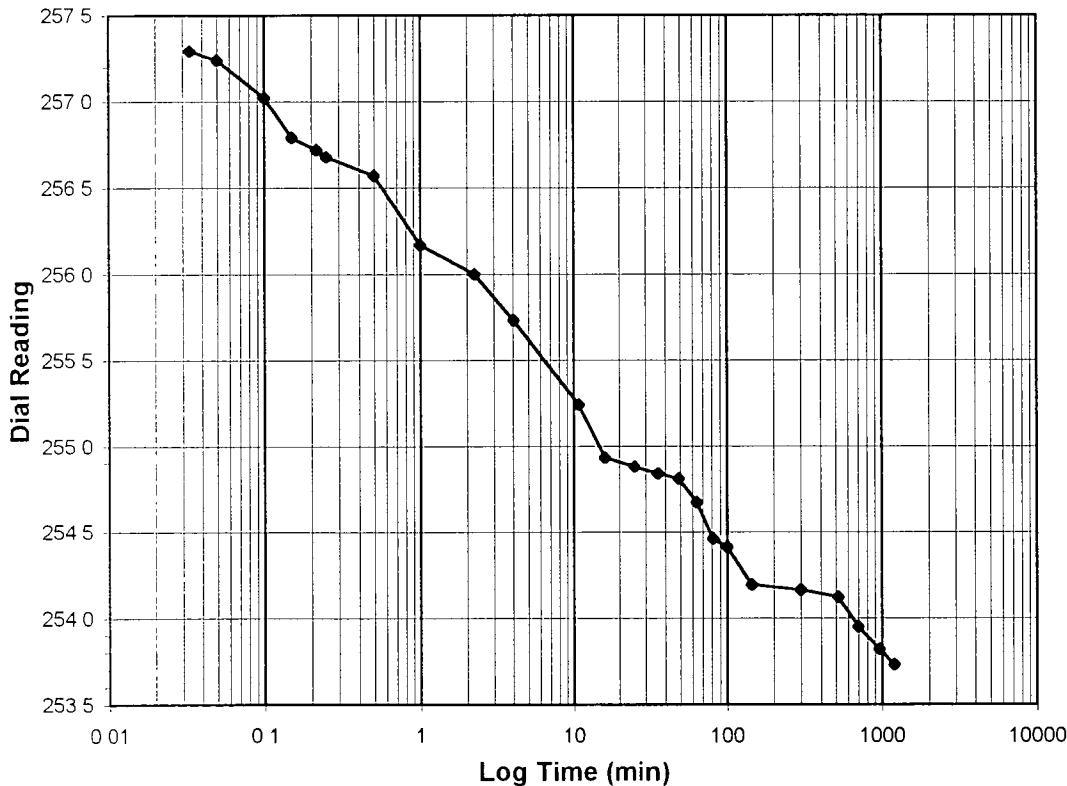
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	8.0-4.0
Final Reading (div)	253.7
Consolidometer No.	4
1 Division (in)	0.0001

Start Date	11/16/04
Start Time	15:22:41

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>265.7</b>
0.03	257.3
0.05	257.2
0.10	257.0
0.15	256.8
0.22	256.7
0.25	256.7
0.50	256.6
1.00	256.2
2.25	256.0
4.02	255.7
10.82	255.2
16.00	254.9
25.00	254.9
36.00	254.8
49.00	254.8
64.00	254.7
81.00	254.5
100.00	254.4
144.00	254.2
300.00	254.2
520.00	254.1
700.00	254.0
960.00	253.8
1196.15	253.7



Tested By *TM* Date *11/16/04* Checked By *GS* Date *11/30/04*

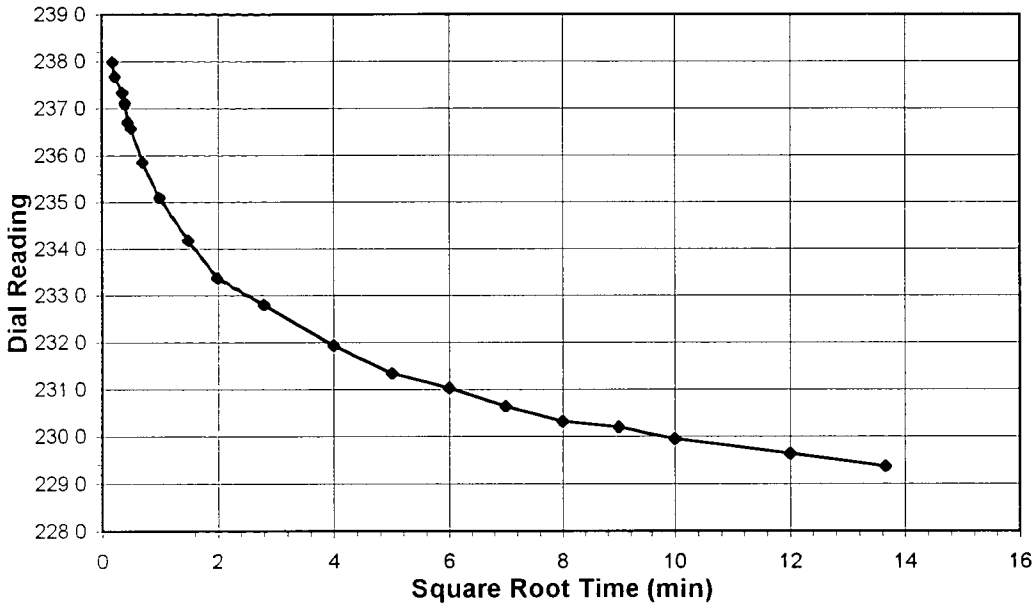


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

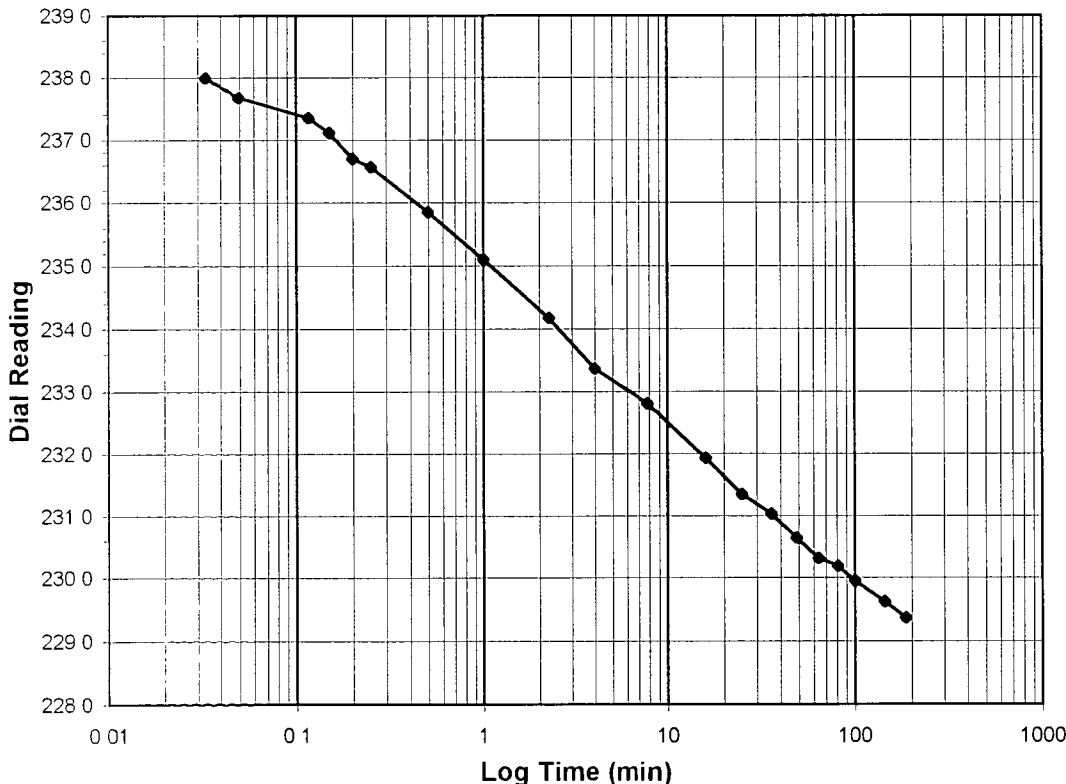
Client	BLASLAND, BOUCK, & LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-04	Sample No.	SS52-R-POST S/T
Lab ID	2004-221-04-02	Visual Description	GRAY STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



<b>Test Load (tsf)</b>	<b>4.0-1.0</b>
<b>Final Reading (div)</b>	<b>229.4</b>
Consolidometer No.	4
1 Division (in)	0.0001
<b>Start Date</b>	<b>11/17/04</b>
<b>Start Time</b>	<b>11:42:06</b>

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>253.7</b>
0.03	238.0
0.05	237.7
0.12	237.3
0.15	237.1
0.20	236.7
0.25	236.6
0.50	235.9
1.00	235.1
2.25	234.2
4.00	233.4
7.82	232.8
16.00	231.9
25.00	231.3
36.00	231.0
49.00	230.6
64.00	230.3
81.00	230.2
100.00	230.0
144.00	229.6
186.50	229.4



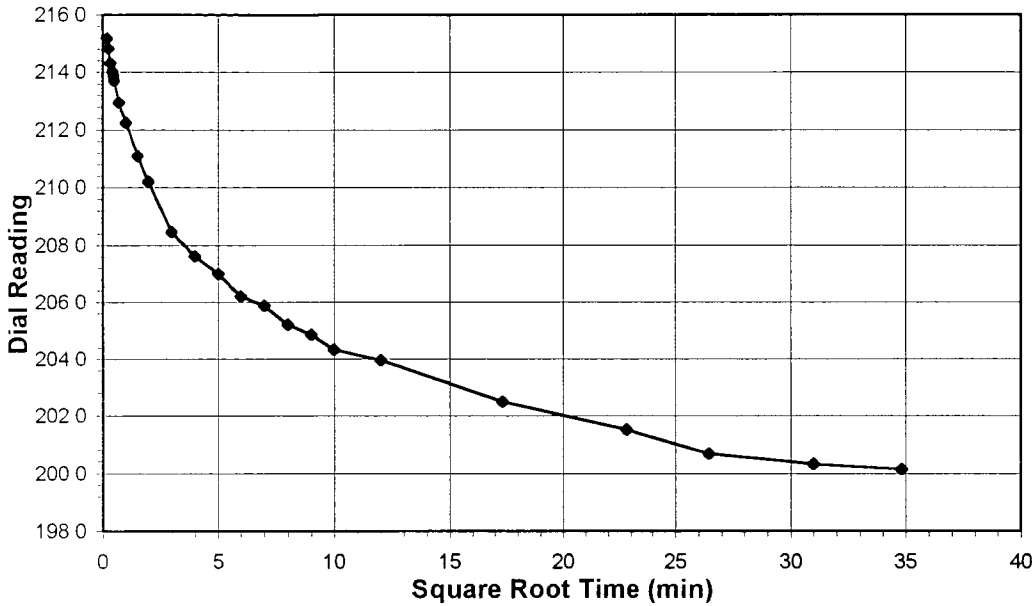
Tested By TM Date 11/17/04 Checked By GO Date 11/30/04



**ONE DIMENSIONAL CONSOLIDATION**  
ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-04	Sample No.	SS52-R-POST S/T
Lab ID	2004-221-04-02	Visual Description	GRAY STABILIZED MATERIAL

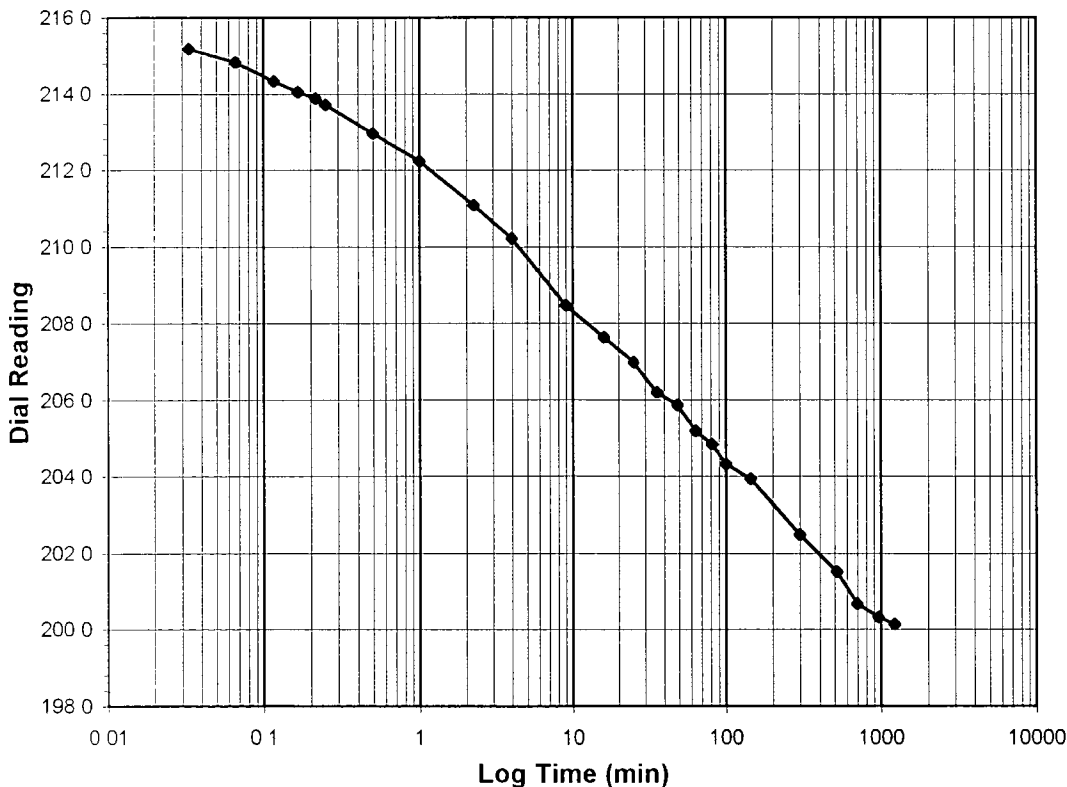
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	1.0-0.25
Final Reading (div)	200.1
Consolidometer No.	4
1 Division (in)	0.0001

Start Date	11/17/04
Start Time	14:54:17

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>229.4</b>
0.03	215.2
0.07	214.8
0.12	214.3
0.17	214.0
0.22	213.9
0.25	213.7
0.50	213.0
1.00	212.2
2.25	211.1
4.00	210.2
9.02	208.5
16.00	207.6
25.00	207.0
36.00	206.2
49.00	205.9
64.00	205.2
81.00	204.9
100.00	204.3
144.00	203.9
300.00	202.5
520.00	201.5
700.00	200.7
960.00	200.3
1213.22	200.1



Tested By TM Date 11/17/04 Checked By GU Date 11/30/04

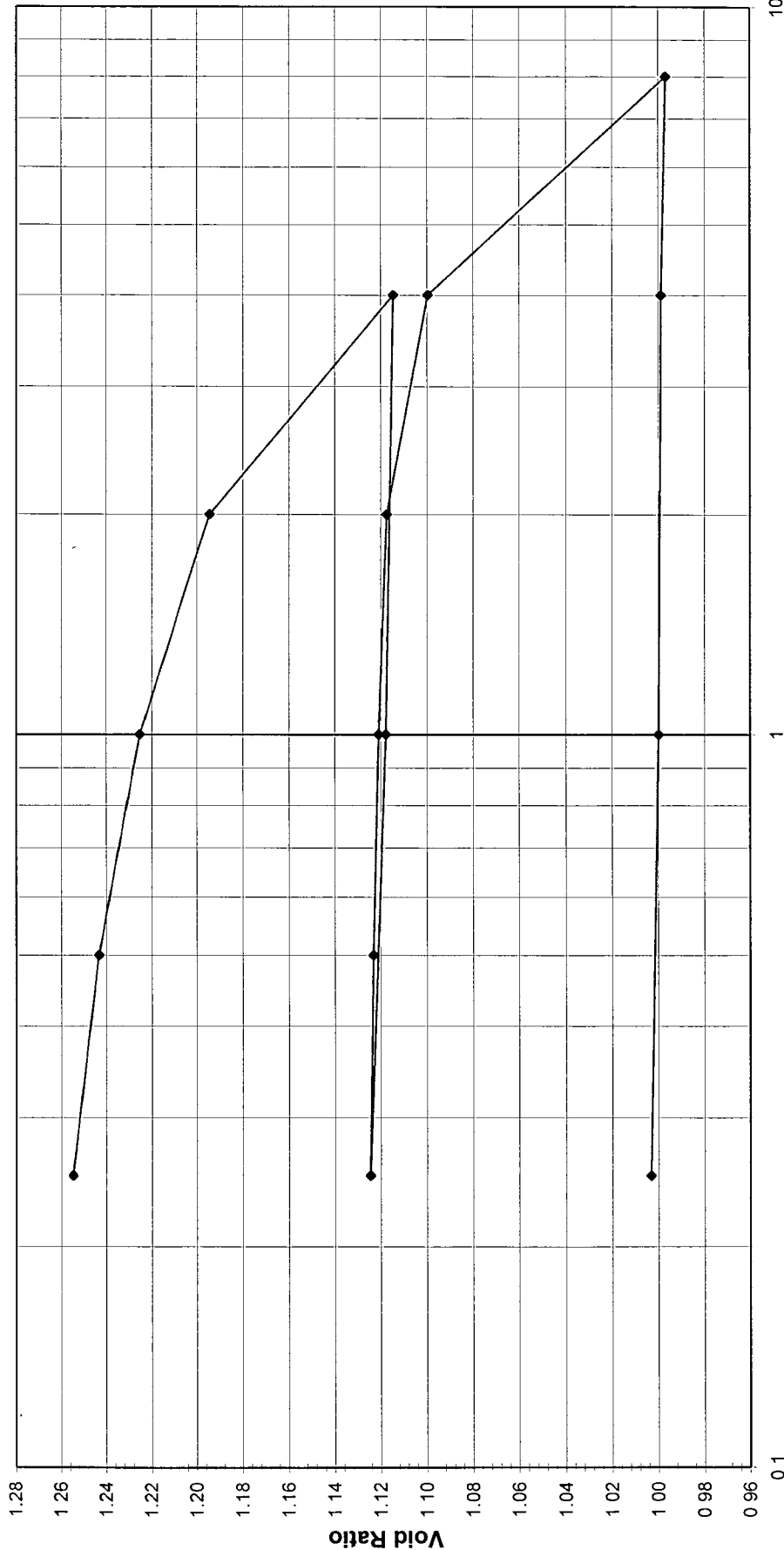


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 / AASHTO T216-03 (SOP-S24)

Client	BLASLAND, BOUCK, AND LEE	Boring No.	9/22/04
Client Reference	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-04	Sample No.	SS53-R-POST S/T
Lab ID	2004-221-04-03	Visual Description	BROWN STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Log P (tsf)

Tested By TM Date 11/11/04 Approved By DB Date 12/16/04



# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 / AASHTO T216-03 (SOP-S24)

Client	BLASLAND, BOUCK, AND LEE	Boring No.	9/22/04
Client Reference	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-04	Sample No.	SS53-R-POST S/T
Lab ID	2004-221-04-03	Visual Description	BROWN STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED

**Consolidometer No.** 3

**1 Division** = 0.0001 (in)

## Sample Properties

	Initial	Final
<i>Water Content</i>		
Tare Number	444	1399
Wt. Tare & WS (gm)	246.80	162.68
Wt. Tare & DS (gm)	206.59	128.29
Wt. Water (gm)	40.21	34.39
Wt. Tare (gm)	99.86	38.23
Wt. DS (gm)	106.73	90.06
Water Content (%)	37.67	38.19
<i>Sample Parameters</i>		
Sample Diameter (in)	2.5	2.5
Sample Height (in)	1	0.878
Sample Volume (cc)	80.44	70.61
Wt. Wet Sample + Ring (gm)	276.94	277.43
Wt. of Ring (gm)	145.91	145.91
Wt. of Wet Sample (gm)	131.03	131.52
Wet Density (pcf)	101.64	116.22
Wet Density (g/cc)	1.63	1.86
Water Content (%)	37.67	38.19
Wt. of Dry Sample (gm)	95.17	95.17
Dry Density (pcf)	73.83	84.11
Dry Density (g/cc)	1.18	1.35
Void Ratio	1.2820	1.0031
Saturation (%)	79.35	102.78
Specific Gravity	2.70	Assumed

## Test Data Summary

Applied Pressure (tsf)	Final Reading (div)	Machine Deflection (div)	Corrected Reading (div)	Height of Sample (mm)	Volume (cc)	Dry Density (g/cc)	Void Ratio
Seating	0	0	0	25.400	80.440	1.18317	1.28201
0.25	120.4	0.8	119.6	25.096	79.478	1.19748	1.25473
0.5	172.1	2.5	169.7	24.969	79.075	1.20359	1.24330
1	256.2	7.6	248.6	24.768	78.440	1.21334	1.22527
2	400.0	15.6	384.4	24.424	77.348	1.23046	1.19430
4	762.5	28.7	733.8	23.536	74.537	1.27687	1.11455
1	731.9	11.6	720.3	23.570	74.646	1.27501	1.11763
0.25	694.5	4.4	690.1	23.647	74.889	1.27087	1.12453
0.5	700.7	4.8	695.9	23.632	74.842	1.27167	1.12320
1	714.3	8.1	706.3	23.606	74.759	1.27308	1.12084
2	737.8	16.3	721.5	23.567	74.636	1.27517	1.11736
4	826.7	27.5	799.2	23.370	74.011	1.28594	1.09964
8	1293.2	43.0	1250.2	22.224	70.383	1.35223	0.99671
4	1280.5	38.7	1241.9	22.246	70.450	1.35093	0.99862
1	1253.2	16.2	1237.0	22.258	70.489	1.35019	0.99972
0.25	1229.8	7.8	1222.0	22.296	70.610	1.34788	1.00314

Tested By TM Date 11/11/04 Input Checked By CS Date 12/16/04

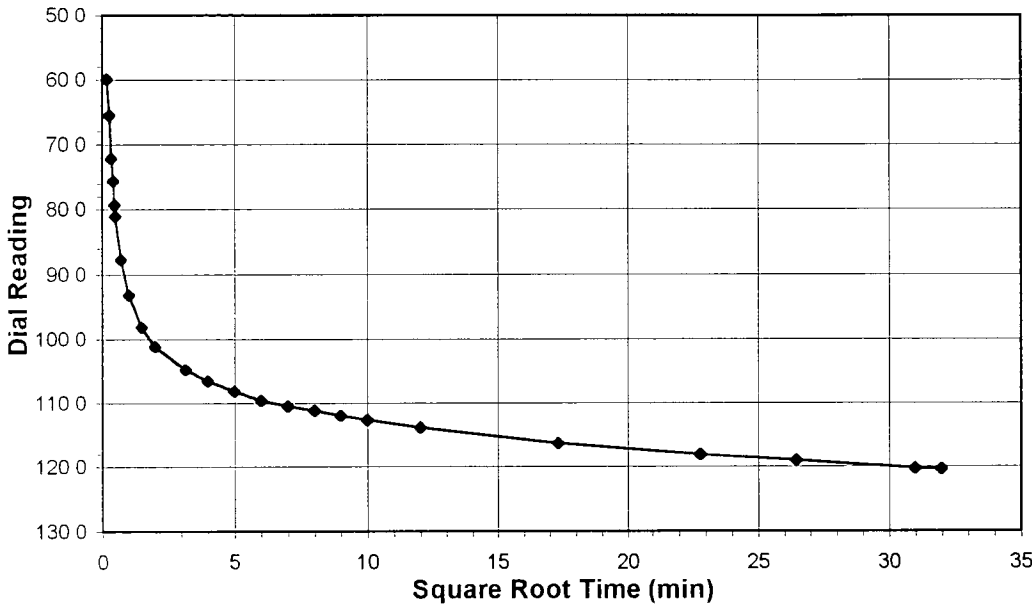


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, AND LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-04	Sample No.	SS53-R-POST S/T
Lab ID	2004-221-04-03	Visual Description	BROWN STABILIZED MATERIAL

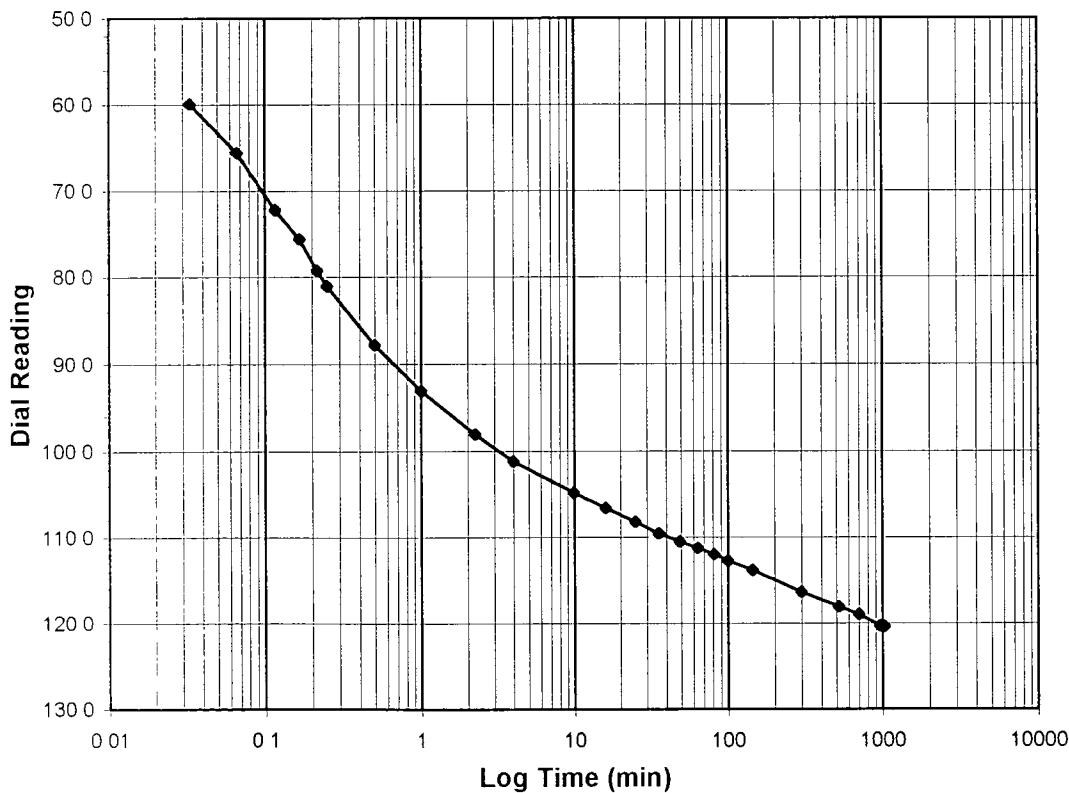
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



<b>Test Load</b>	(tsf)	<b>0-0.25</b>
<b>Final Reading</b>	(div)	<b>120.4</b>
Consolidometer No.		3
1 Division	(in)	0.0001

Start Date	11/11/04
Start Time	16:28:54

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>0.0</b>
0.03	59.9
0.07	65.5
0.12	72.2
0.17	75.6
0.22	79.3
0.25	81.0
0.50	87.8
1.00	93.1
2.25	98.1
4.00	101.2
9.92	104.9
16.00	106.7
25.00	108.2
36.00	109.6
49.00	110.6
64.00	111.2
81.00	112.0
100.00	112.7
144.00	113.8
300.00	116.4
520.00	118.1
700.00	119.0
960.00	120.3
1022.70	120.4



Tested By *TM* Date *11/11/04* Checked By *GU* Date *12-16-04*

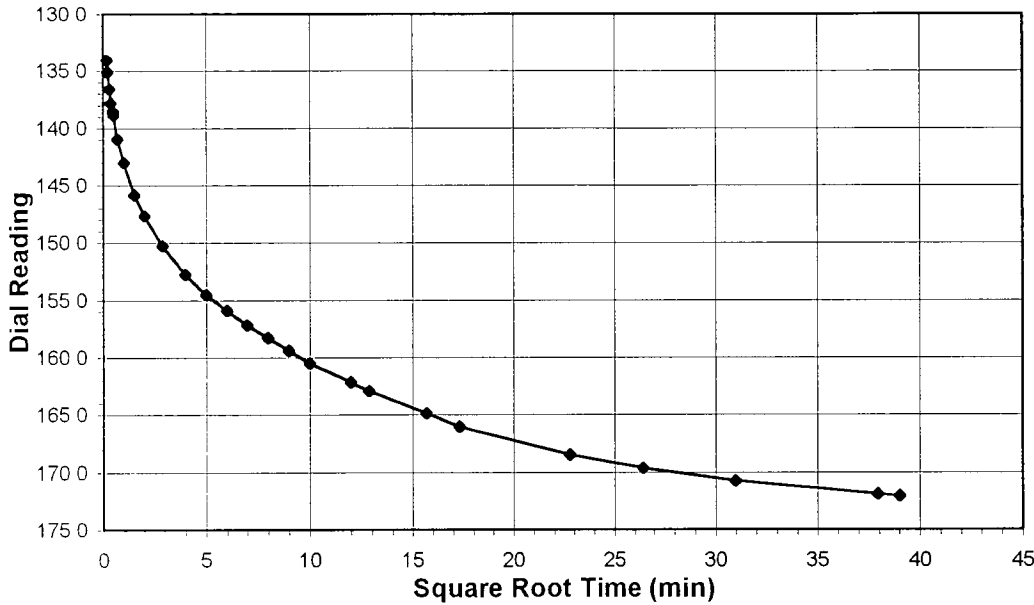


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

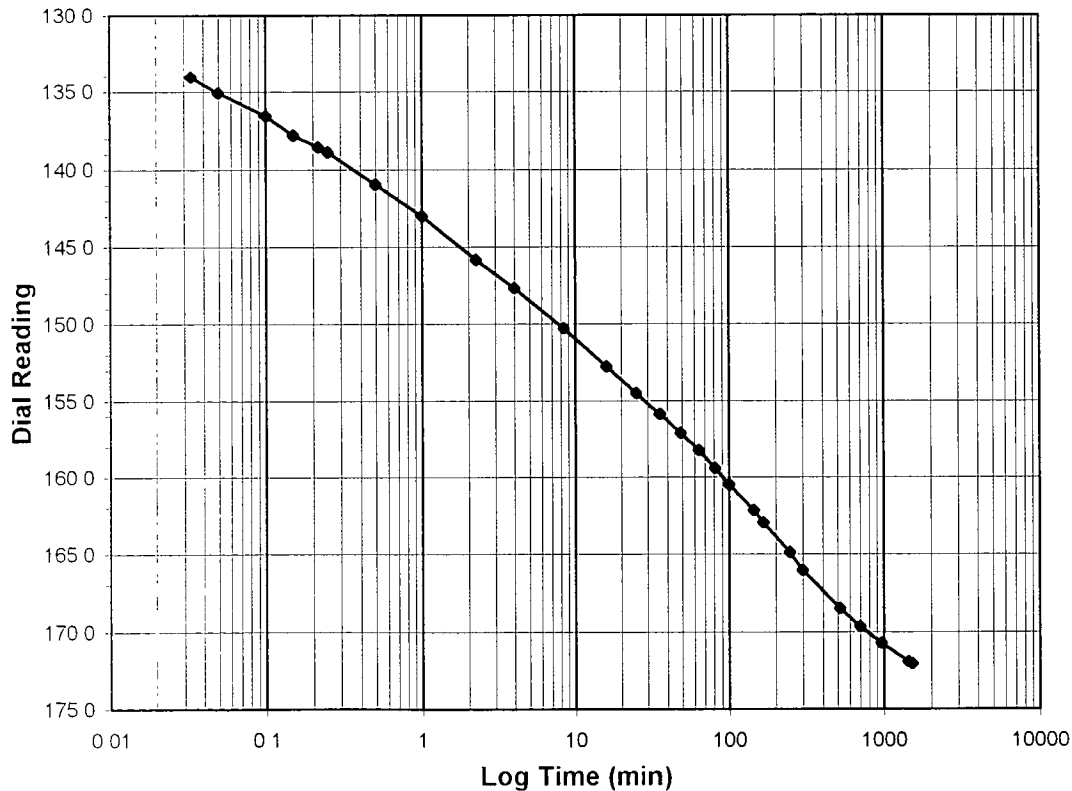
Client	BLASLAND, BOUCK, AND LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-04	Sample No.	SS53-R-POST S/T
Lab ID	2004-221-04-03	Visual Description	BROWN STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.25-0.5
Final Reading (div)	172.1
Consolidometer No.	3
1 Division (in)	0.0001
Start Date	11/12/04
Start Time	9:35:59

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>120.4</b>
0.03	134.0
0.05	135.1
0.10	136.6
0.15	137.8
0.22	138.5
0.25	138.9
0.50	141.0
1.00	143.0
2.25	145.8
4.00	147.7
8.43	150.3
16.00	152.8
25.00	154.5
36.00	155.9
49.00	157.2
64.00	158.3
81.00	159.4
100.00	160.5
144.00	162.2
166.20	163.0
246.30	164.9
300.00	166.0
520.02	168.5
700.00	169.6
960.00	170.7
1440.00	171.9
1522.25	172.1



Tested By *TM* Date *11/12/04* Checked By *GU* Date *12-16-04*



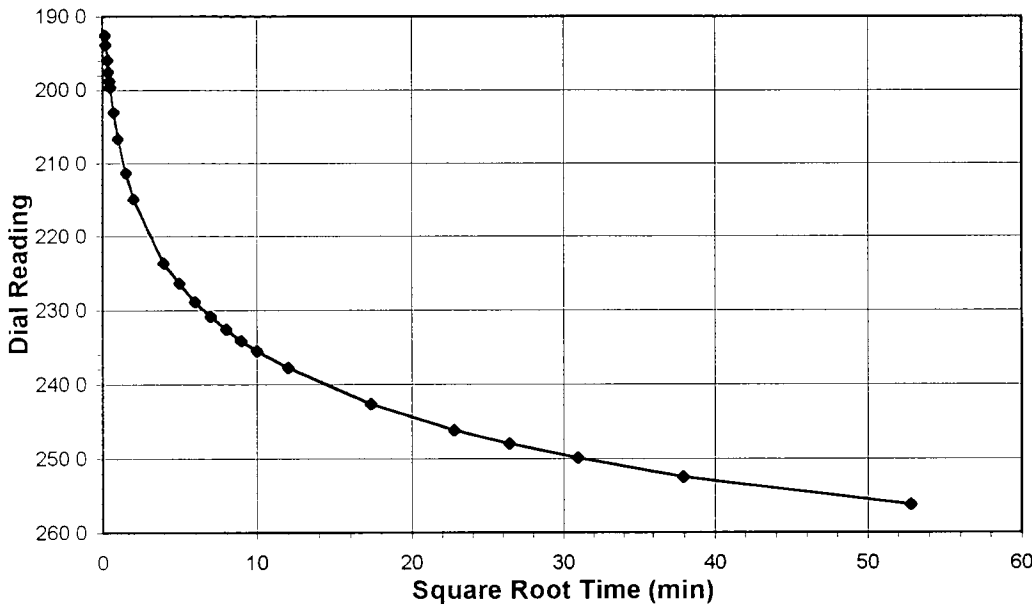


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

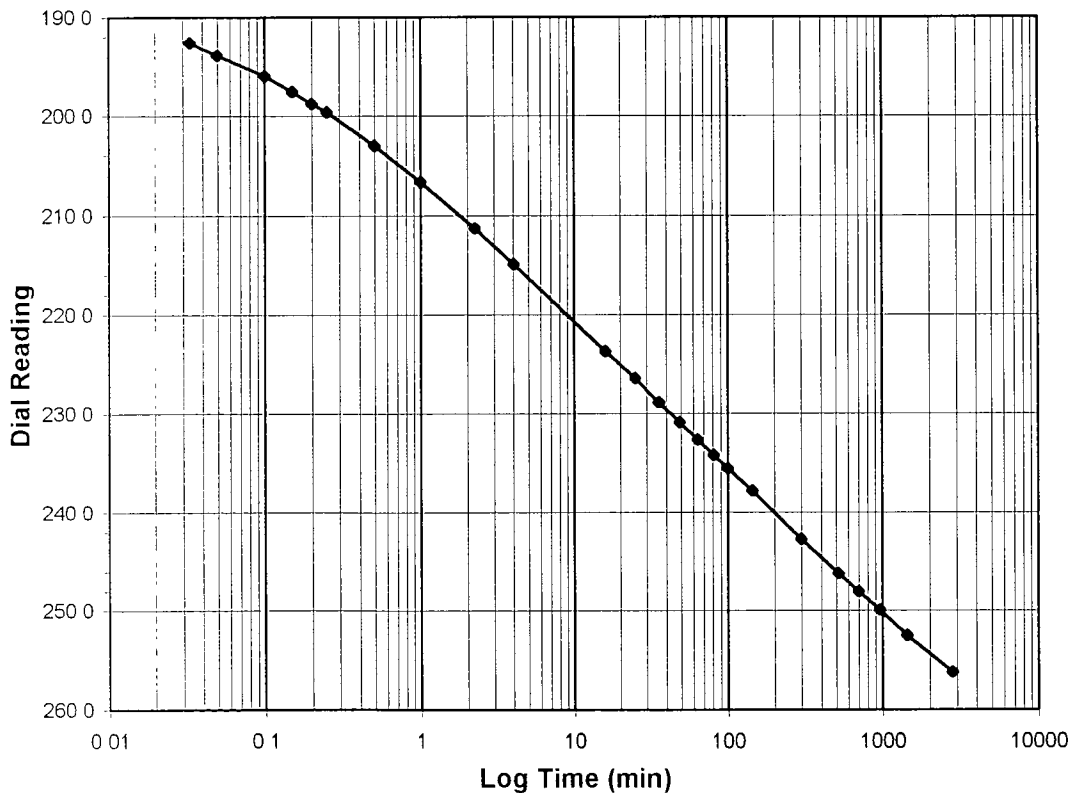
Client	BLASLAND, BOUCK, AND LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-04	Sample No.	SS53-R-POST S/T
Lab ID	2004-221-04-03	Visual Description	BROWN STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



<b>Test Load (tsf)</b>	<b>0.5-1.0</b>
<b>Final Reading (div)</b>	<b>256.2</b>
Consolidometer No.	3
1 Division (in)	0.0001
<b>Start Date</b>	<b>11/13/04</b>
<b>Start Time</b>	<b>11:12:13</b>

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>172.1</b>
0.03	192.6
0.05	193.9
0.10	196.0
0.15	197.6
0.20	198.8
0.25	199.7
0.50	203.0
1.00	206.6
2.25	211.3
4.02	214.9
16.00	223.7
25.00	226.4
36.00	228.9
49.00	230.9
64.00	232.7
81.00	234.2
100.00	235.6
144.02	237.8
300.00	242.7
520.00	246.2
700.00	248.0
960.00	249.9
1440.00	252.5
2790.45	256.2



Tested By TM Date 11/13/04 Checked By GO Date 12-16-04

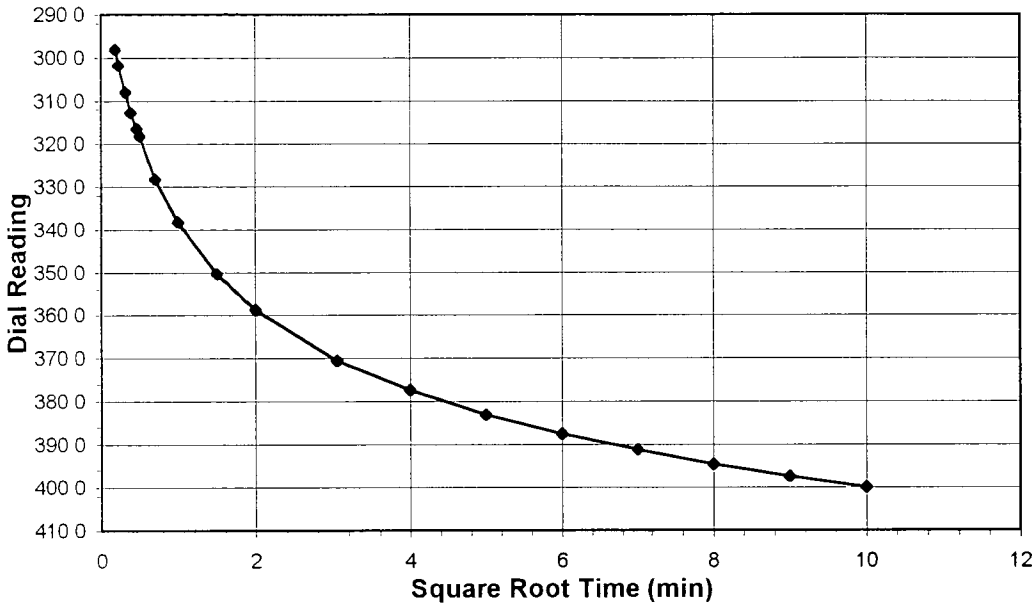


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

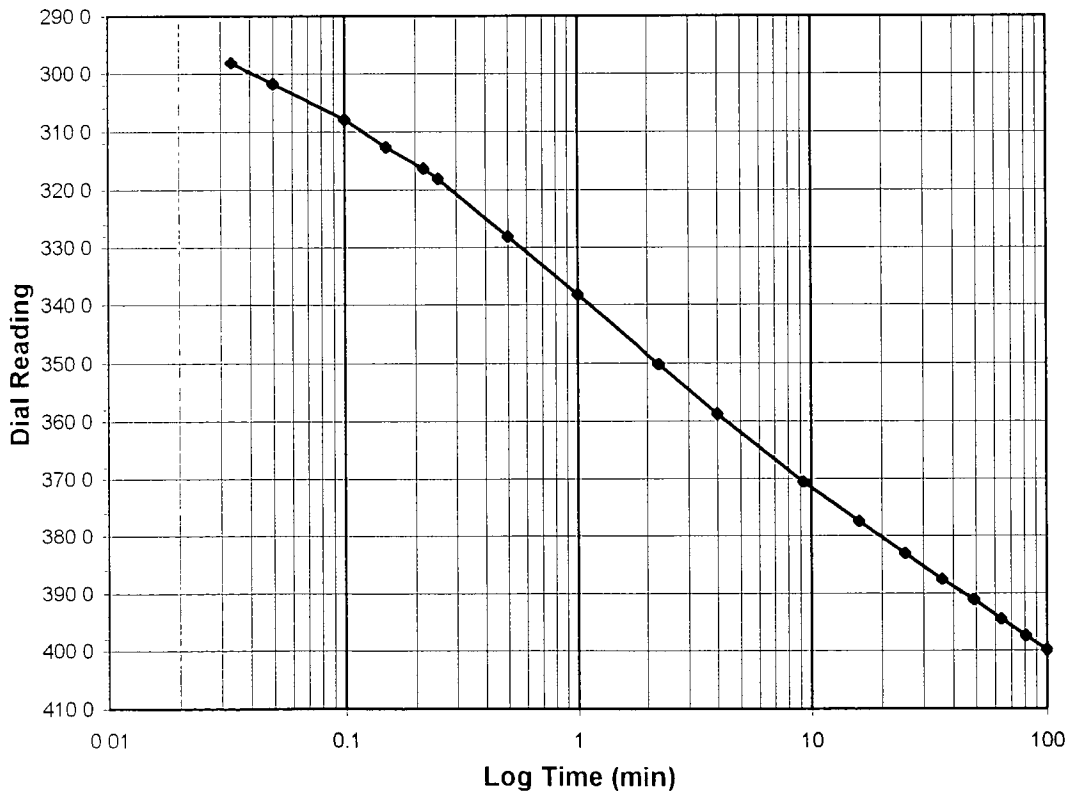
Client	BLASLAND, BOUCK, AND LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-04	Sample No.	SS53-R-POST S/T
Lab ID	2004-221-04-03	Visual Description	BROWN STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	1.0-2.0
Final Reading (div)	400.0
Consolidometer No.	3
1 Division (in)	0.0001
Start Date	11/15/04
Start Time	9:54:09

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>256.2</b>
0.03	298.1
0.05	301.8
0.10	308.0
0.15	312.7
0.22	316.4
0.25	318.1
0.50	328.2
1.00	338.3
2.25	350.3
4.00	358.8
9.28	370.5
16.00	377.4
25.00	383.1
36.00	387.6
49.00	391.2
64.00	394.6
81.00	397.5
100.00	400.0



Tested By *TM* Date *11/15/04* Checked By *GO* Date *12-16-04*

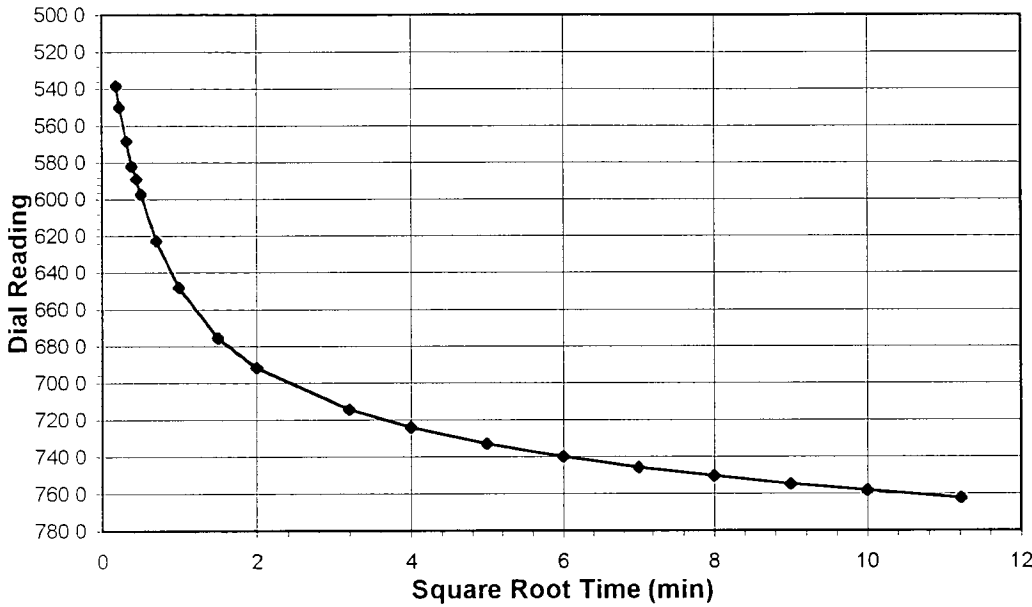


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

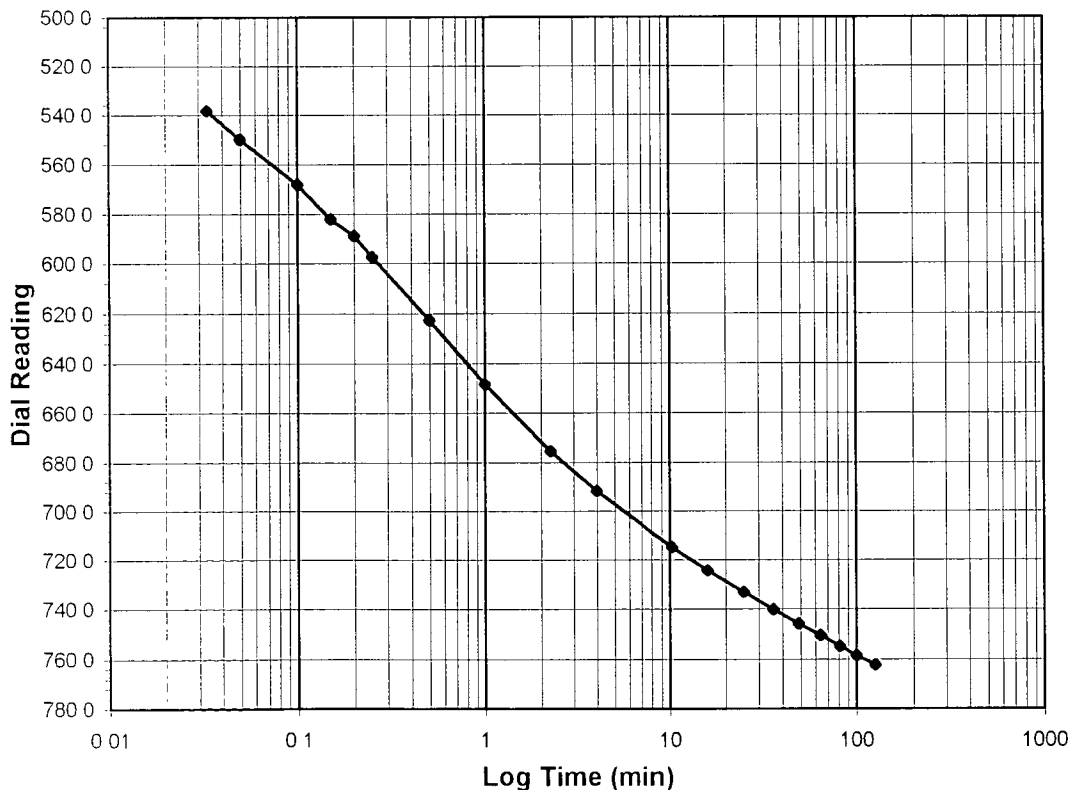
Client	BLASLAND, BOUCK, AND LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-04	Sample No.	SS53-R-POST S/T
Lab ID	2004-221-04-03	Visual Description	BROWN STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



<b>Test Load</b>	(tsf)	<b>2.0-4.0</b>
<b>Final Reading</b>	(div)	<b>762.5</b>
Consolidometer No.		3
1 Division	(in)	0.0001
<b>Start Date</b>		11/15/04
<b>Start Time</b>		11:40:02

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>400.0</b>
0.03	538.4
0.05	549.8
0.10	568.1
0.15	581.9
0.20	588.8
0.25	597.3
0.50	622.6
1.00	648.2
2.25	675.6
4.00	691.8
10.23	714.7
16.00	724.4
25.00	733.2
36.00	740.2
49.00	746.0
64.00	750.5
81.00	755.0
100.00	758.5
125.90	762.5



Tested By *TM* Date *11/15/04* Checked By *GU* Date *12-16-04*

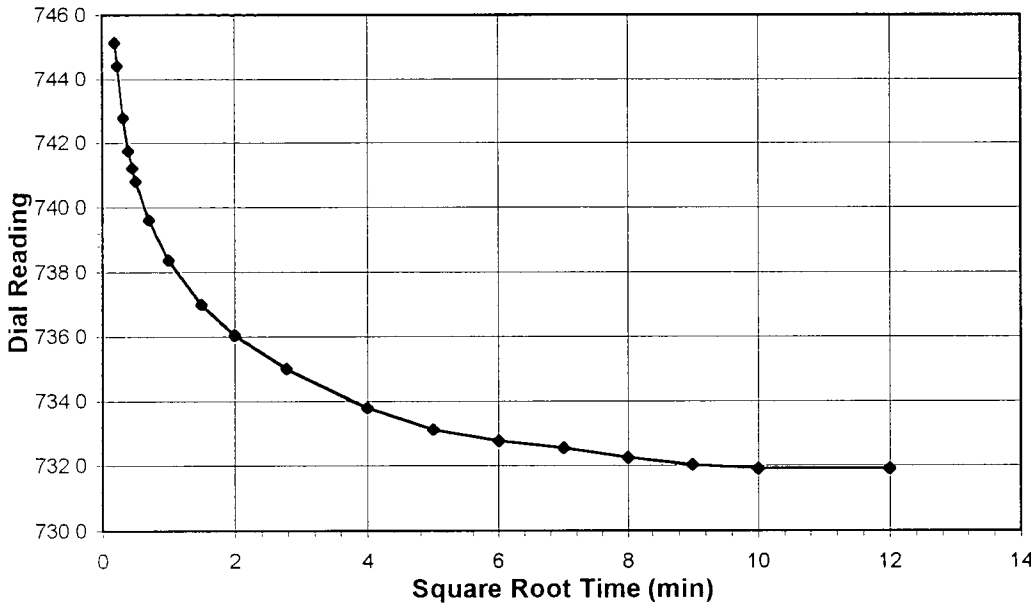


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

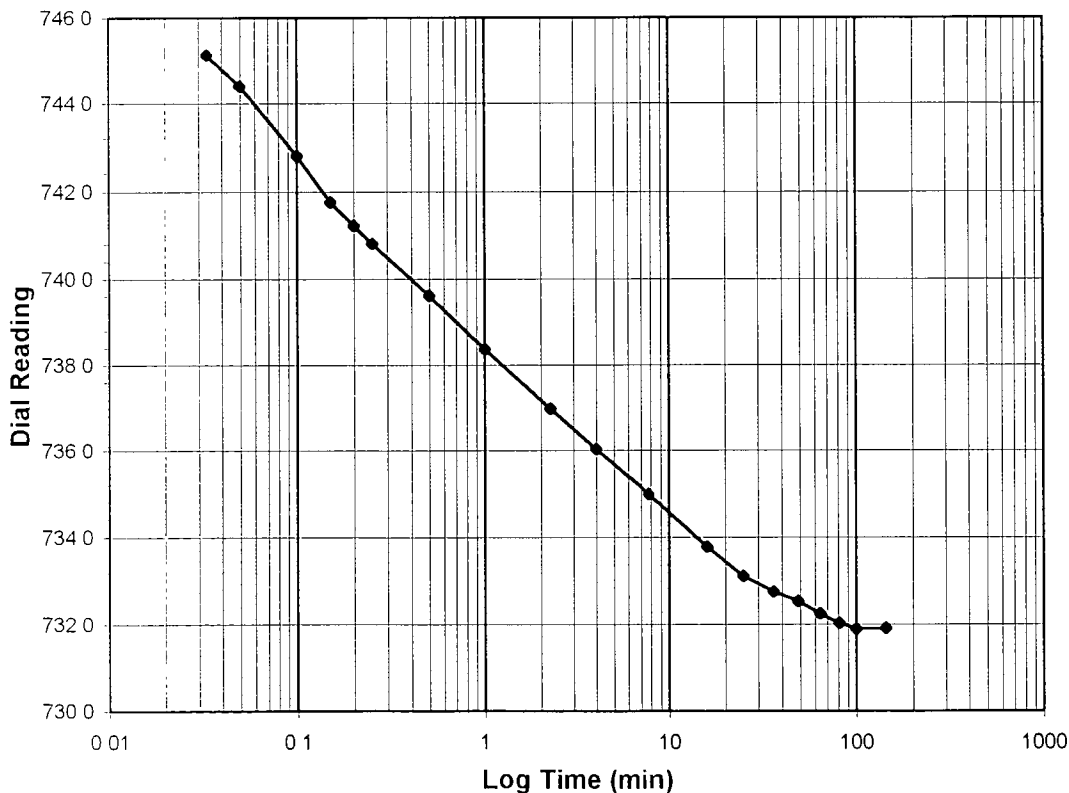
Client	BLASLAND, BOUCK, AND LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-04	Sample No.	SS53-R-POST S/T
Lab ID	2004-221-04-03	Visual Description	BROWN STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



<b>Test Load</b> (tsf)	<b>4.0-1.0</b>
<b>Final Reading</b> (div)	<b>731.9</b>
Consolidometer No.	3
1 Division (in)	0.0001
<b>Start Date</b>	<b>11/15/04</b>
<b>Start Time</b>	<b>13:51:25</b>

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>762.5</b>
0.03	745.1
0.05	744.4
0.10	742.8
0.15	741.8
0.20	741.2
0.25	740.8
0.50	739.6
1.00	738.4
2.25	737.0
4.00	736.0
7.75	735.0
16.00	733.8
25.00	733.1
36.02	732.8
49.00	732.5
64.00	732.3
81.00	732.0
100.00	731.9
144.00	731.9



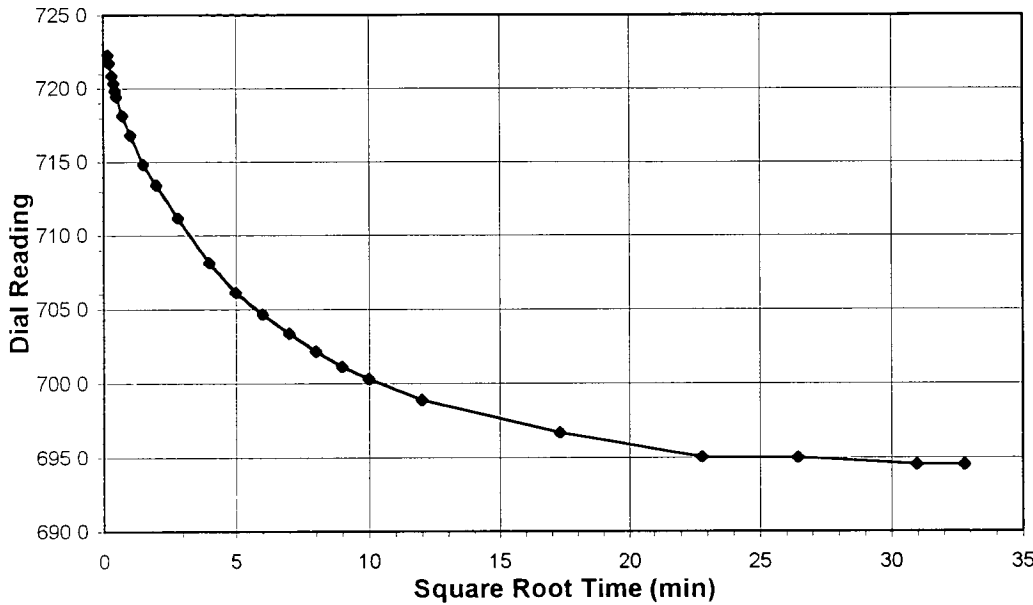
Tested By *TM* Date *11/15/04* Checked By *GU* Date *12-16-04*



**ONE DIMENSIONAL CONSOLIDATION**  
ASTM D 2435-96 (SOP-S24A)

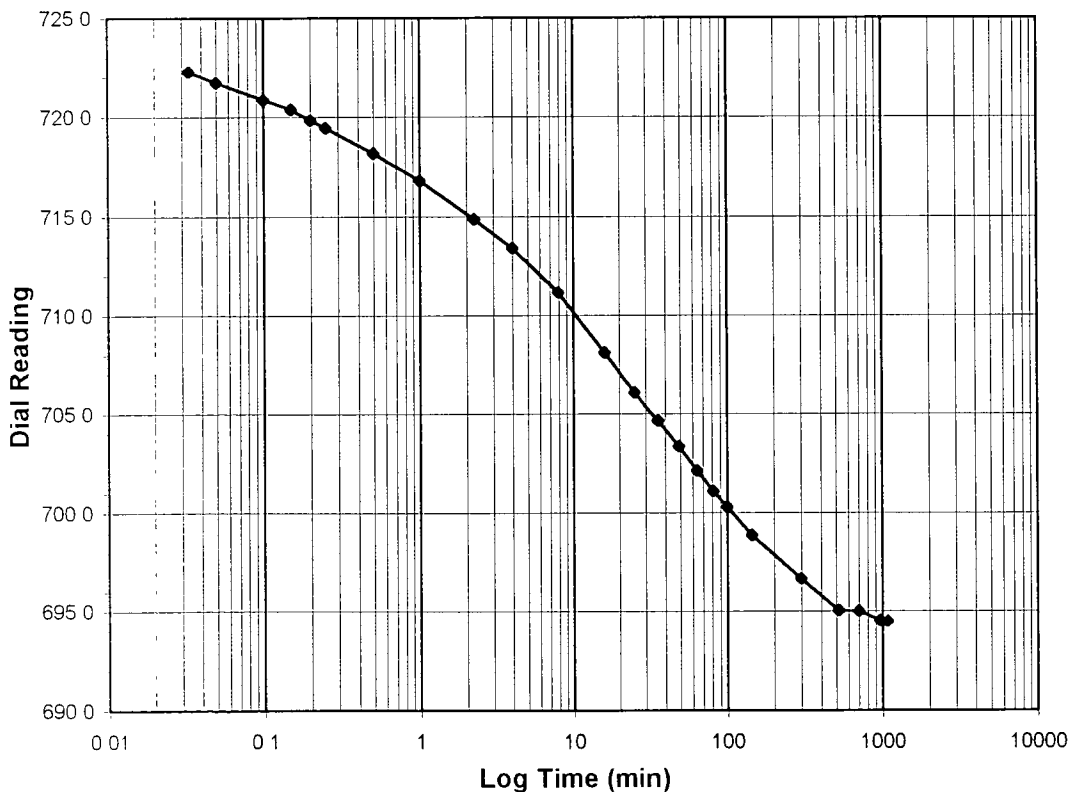
Client	BLASLAND, BOUCK, AND LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-04	Sample No.	SS53-R-POST S/T
Lab ID	2004-221-04-03	Visual Description	BROWN STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



<b>Test Load</b> (tsf)	<b>1.0-0.25</b>
<b>Final Reading</b> (div)	<b>694.5</b>
Consolidometer No.	3
1 Division (in)	0.0001
<b>Start Date</b>	<b>11/15/04</b>
<b>Start Time</b>	<b>16:30:07</b>

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>731.9</b>
0.03	722.3
0.05	721.7
0.10	720.9
0.15	720.4
0.20	719.8
0.25	719.4
0.50	718.2
1.00	716.8
2.25	714.9
4.00	713.4
7.97	711.2
16.00	708.1
25.00	706.1
36.00	704.6
49.00	703.4
64.00	702.1
81.00	701.1
100.00	700.3
144.00	698.9
300.00	696.7
520.00	695.0
700.00	695.0
960.00	694.5
1075.00	694.5



Tested By **TM** Date **11/15/04** Checked By **(S)** Date **12-16-04**

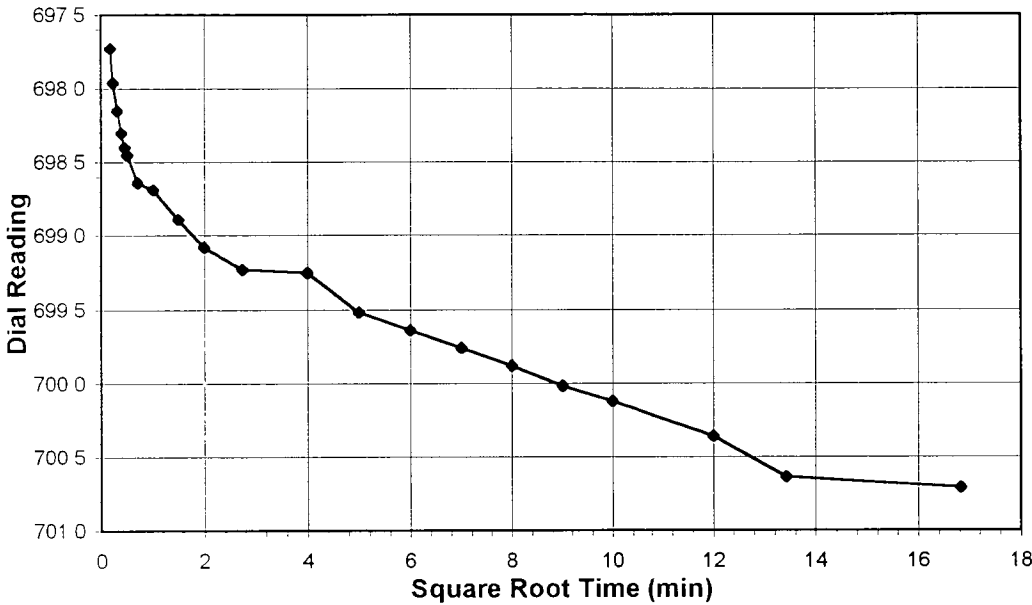


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

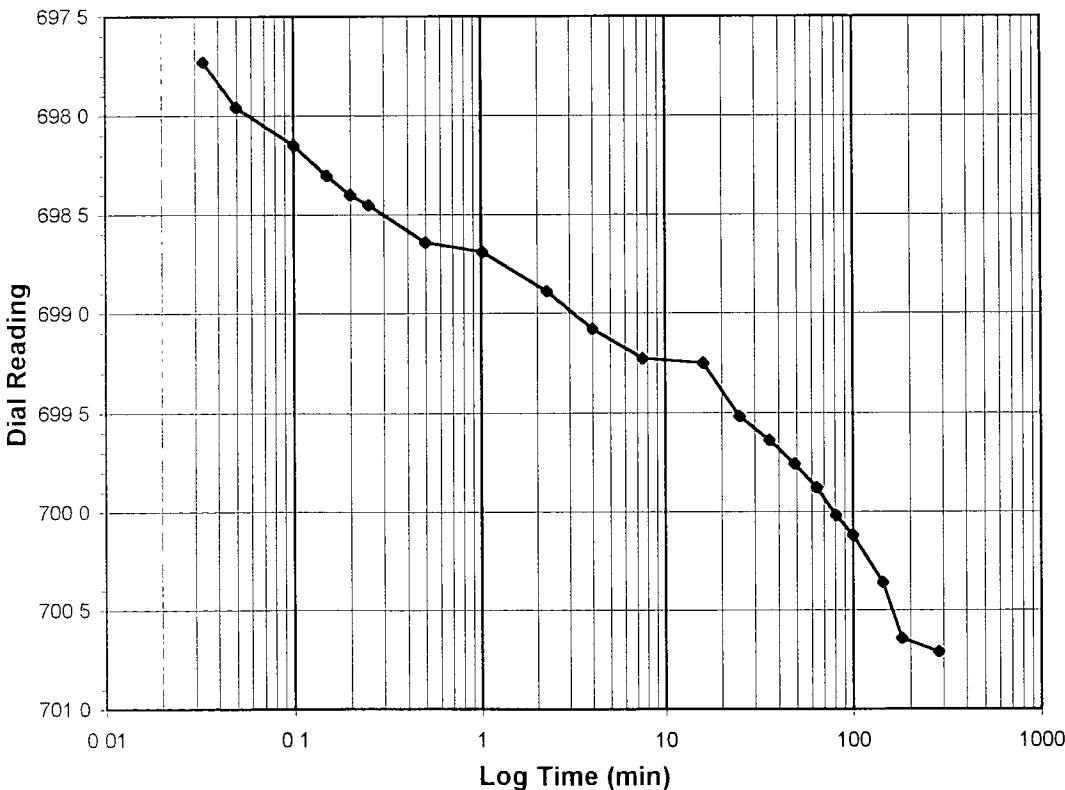
Client	BLASLAND, BOUCK, AND LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-04	Sample No.	SS53-R-POST S/T
Lab ID	2004-221-04-03	Visual Description	BROWN STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.25-0.5
Final Reading (div)	700.7
Consolidometer No.	3
1 Division (in)	0.0001
Start Date	11/16/04
Start Time	10:33:34

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>694.5</b>
0.03	697.7
0.05	698.0
0.10	698.2
0.15	698.3
0.20	698.4
0.25	698.5
0.50	698.6
1.02	698.7
2.25	698.9
4.00	699.1
7.52	699.2
16.00	699.3
25.00	699.5
36.00	699.6
49.00	699.8
64.00	699.9
81.00	700.0
100.00	700.1
144.00	700.4
180.33	700.6
283.40	700.7



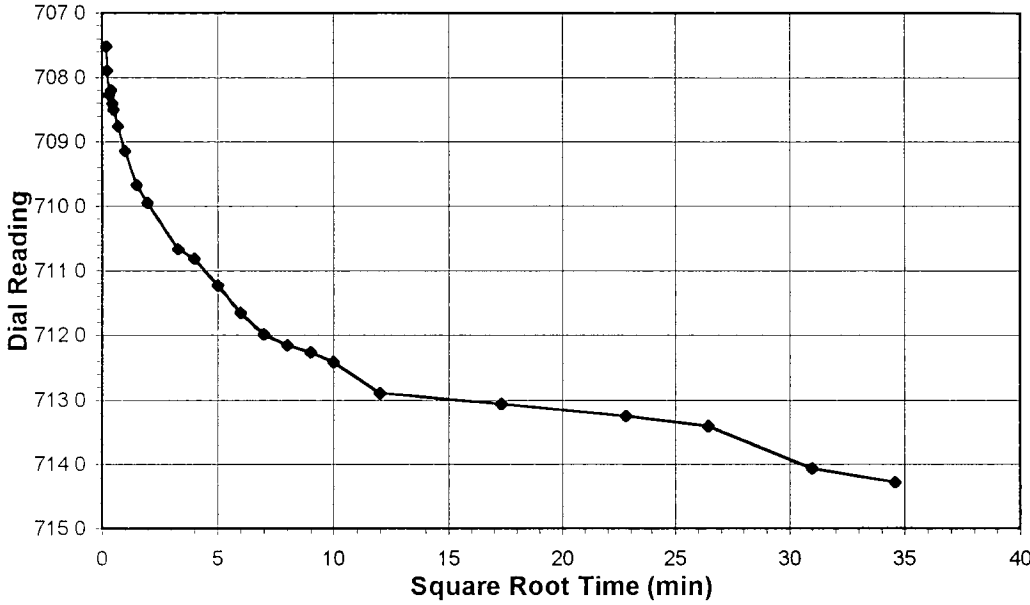
Tested By *TM* Date *11/16/04* Checked By *GU* Date *12-16-04*



**ONE DIMENSIONAL CONSOLIDATION**  
ASTM D 2435-96 (SOP-S24A)

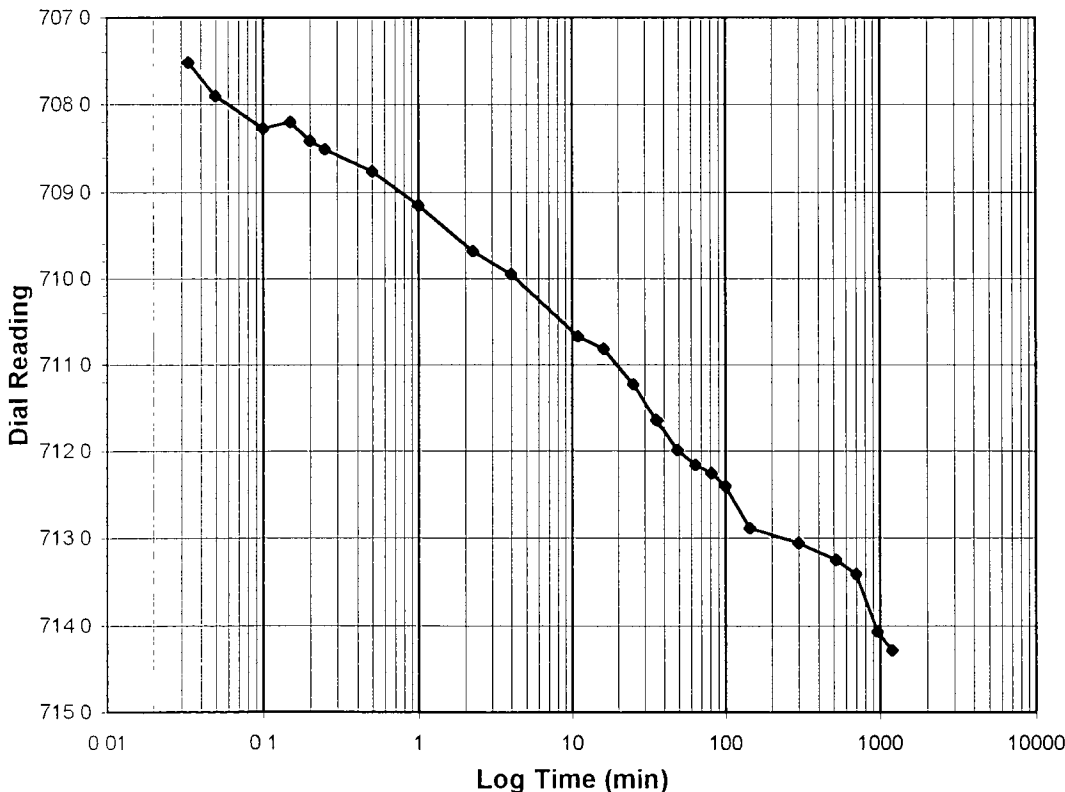
Client	BLASLAND, BOUCK, AND LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-04	Sample No.	SS53-R-POST S/T
Lab ID	2004-221-04-03	Visual Description	BROWN STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



<b>Test Load (tsf)</b>	<b>0.5-1.0</b>
<b>Final Reading (div)</b>	<b>714.3</b>
Consolidometer No.	3
1 Division (in)	0.0001
<b>Start Date</b>	<b>11/16/04</b>
<b>Start Time</b>	<b>15:22:35</b>

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>700.7</b>
0.03	707.5
0.05	707.9
0.10	708.3
0.15	708.2
0.20	708.4
0.25	708.5
0.50	708.8
1.00	709.2
2.25	709.7
4.00	710.0
10.92	710.7
16.00	710.8
25.02	711.2
36.00	711.7
49.00	712.0
64.00	712.2
81.00	712.3
100.00	712.4
144.00	712.9
300.00	713.1
520.00	713.3
700.00	713.4
960.00	714.1
1196.25	714.3



Tested By *TM* Date *11/16/04* Checked By *GU* Date *12-16-04*

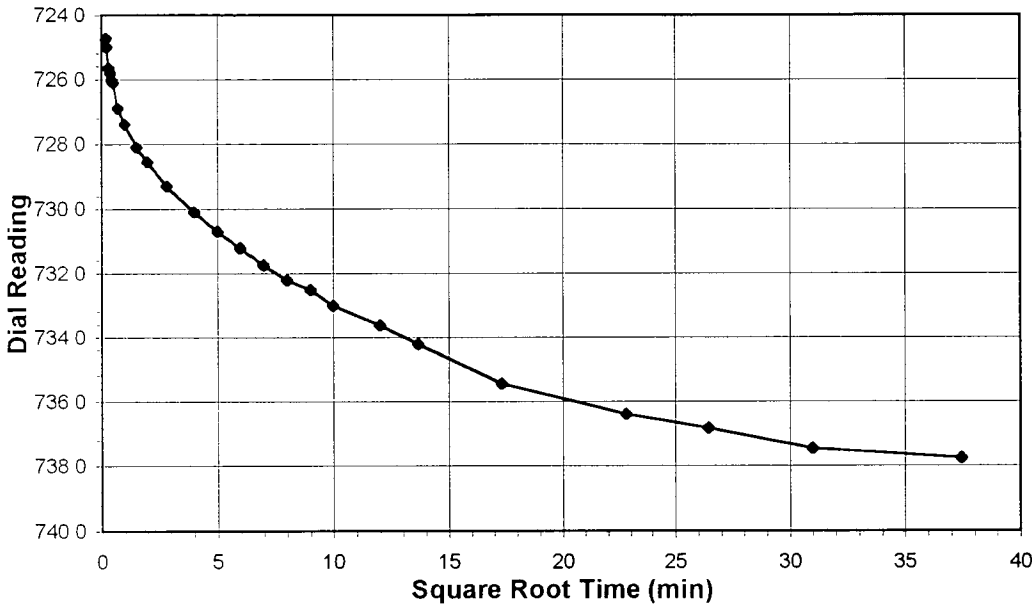


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

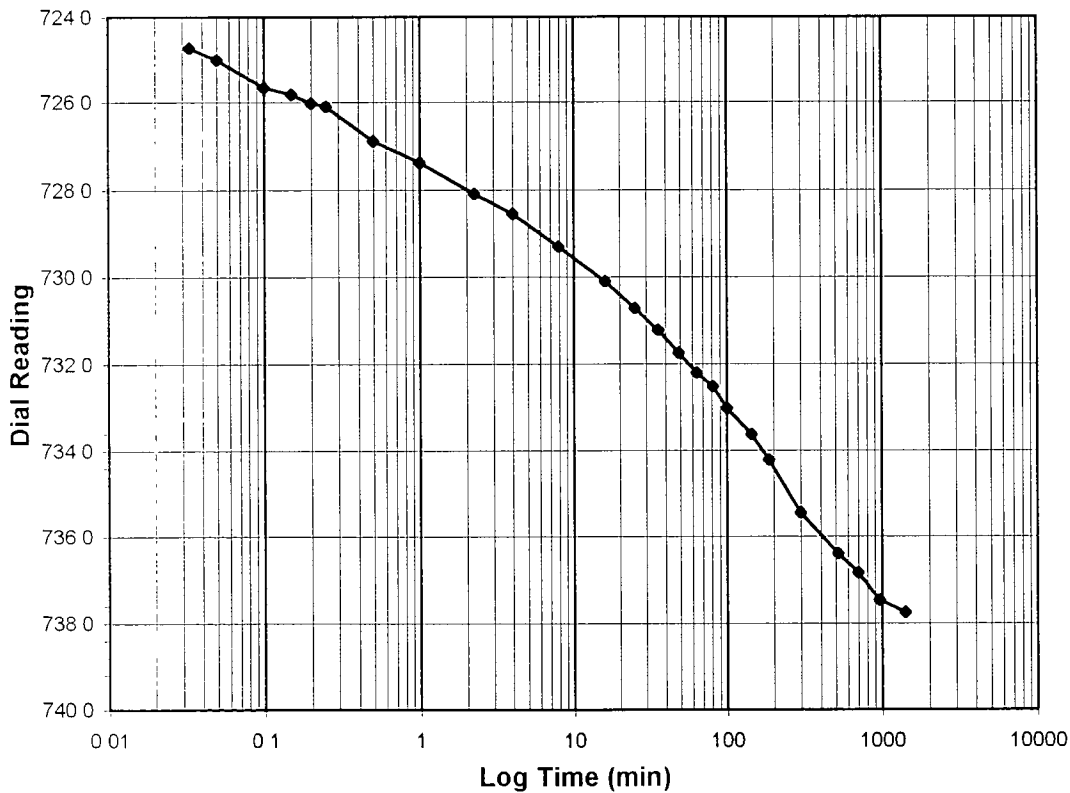
Client	BLASLAND, BOUCK, AND LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-04	Sample No.	SS53-R-POST S/T
Lab ID	2004-221-04-03	Visual Description	BROWN STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	1.0-2.0
Final Reading (div)	737.8
Consolidometer No.	3
1 Division (in)	0.0001
Start Date	11/17/04
Start Time	11:41:59

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>714.3</b>
0.03	724.7
0.05	725.0
0.10	725.7
0.15	725.8
0.20	726.0
0.25	726.1
0.50	726.9
1.00	727.4
2.25	728.1
4.00	728.6
7.93	729.3
16.00	730.1
25.00	730.7
36.00	731.2
49.00	731.8
64.00	732.2
81.00	732.5
100.00	733.0
144.00	733.6
186.62	734.2
300.00	735.5
520.00	736.4
700.00	736.8
960.00	737.5
1402.18	737.8



Tested By *TM* Date *11/17/04* Checked By *GU* Date *12-16-04*



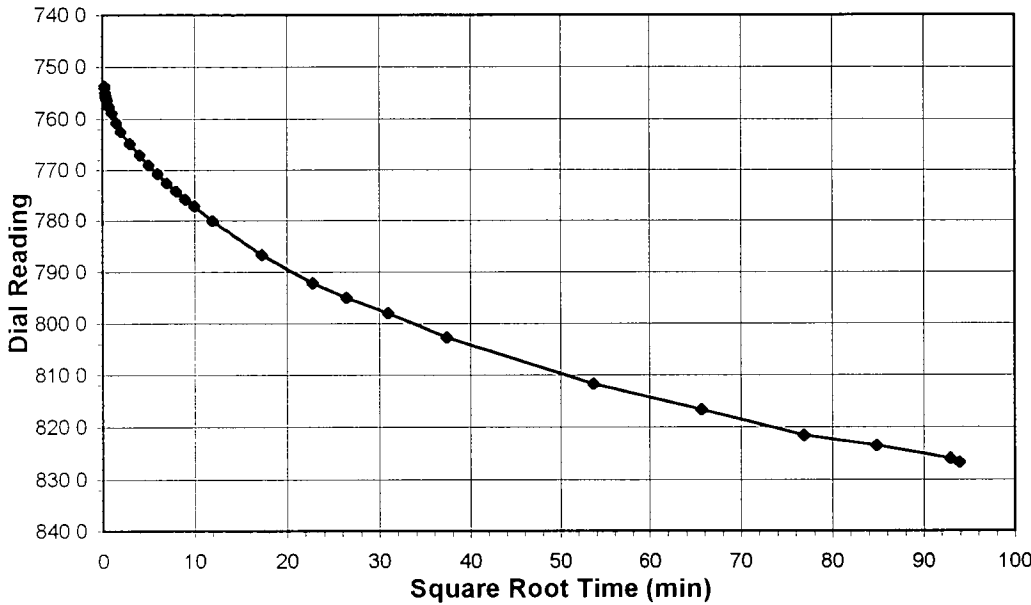


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

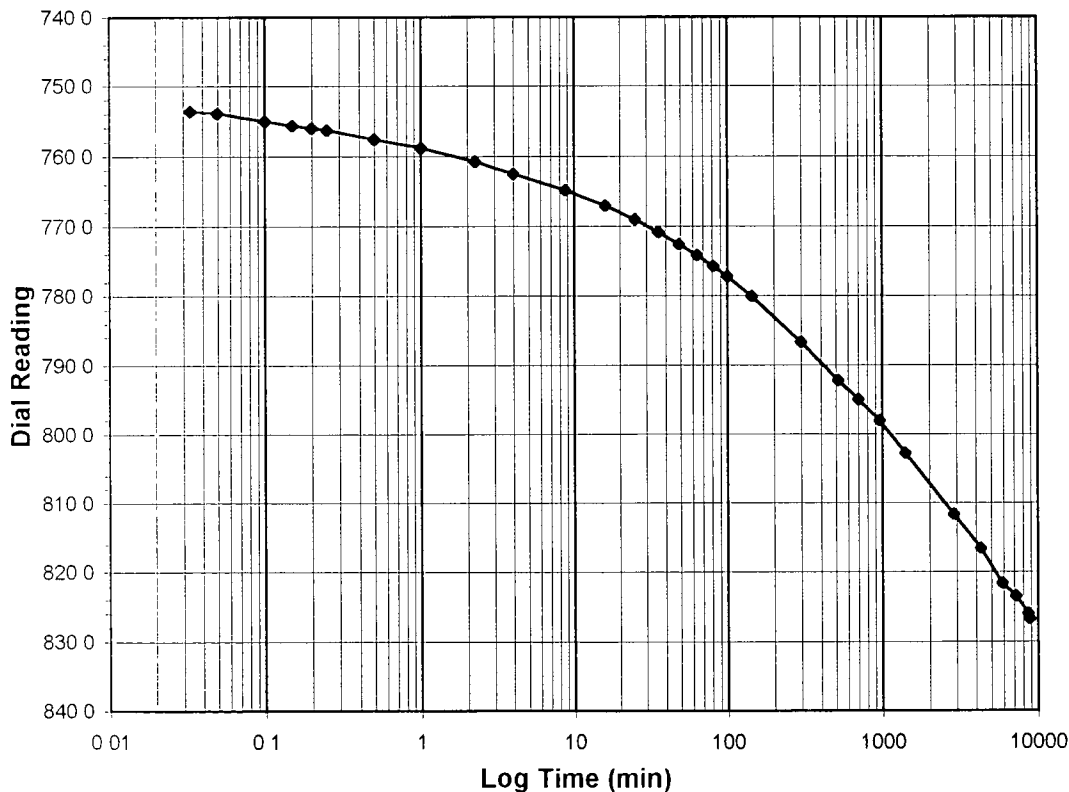
Client	BLASLAND, BOUCK, AND LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-04	Sample No.	SS53-R-POST S/T
Lab ID	2004-221-04-03	Visual Description	BROWN STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	2.0-4.0
Final Reading (div)	826.7
Consolidometer No.	3
1 Division (in)	0.0001
Start Date	11/18/04
Start Time	11:10:09

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>737.8</b>
0.03	753.6
0.05	753.9
0.10	755.0
0.15	755.7
0.20	756.1
0.25	756.4
0.50	757.6
1.00	758.8
2.25	760.8
4.00	762.5
8.78	764.8
16.00	767.0
25.00	769.0
36.00	770.8
49.00	772.6
64.00	774.2
81.00	775.7
100.00	777.2
144.00	780.1
300.00	786.7
520.00	792.3
700.00	795.1
960.00	798.1
1400.47	802.8
2880.00	811.7
4320.00	816.6
5915.20	821.6
7200.00	823.5
8640.00	826.0
8819.47	826.7



Tested By TM Date 11/18/04 Checked By GU Date 12-16-04

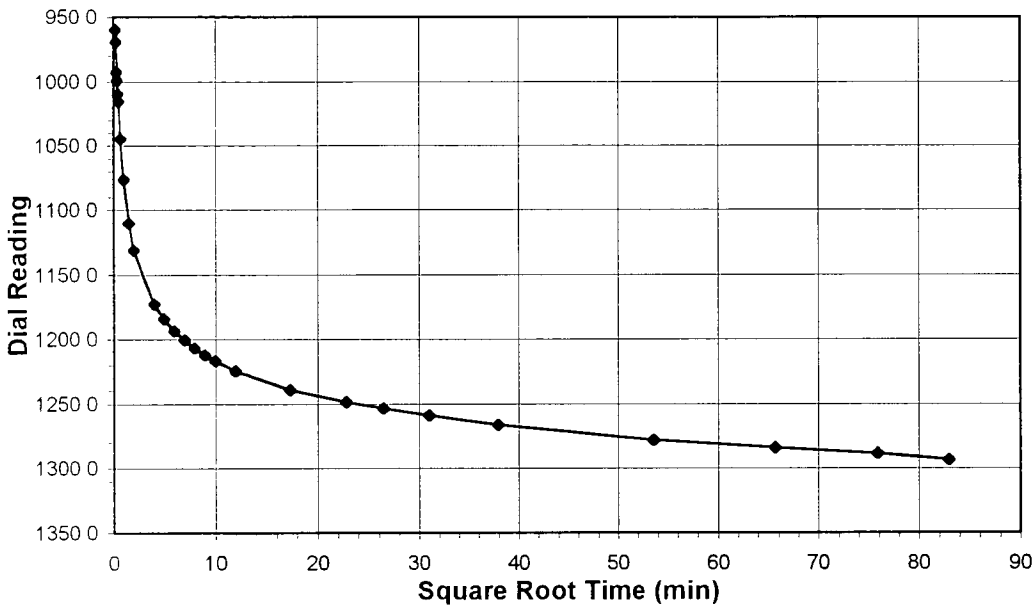


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

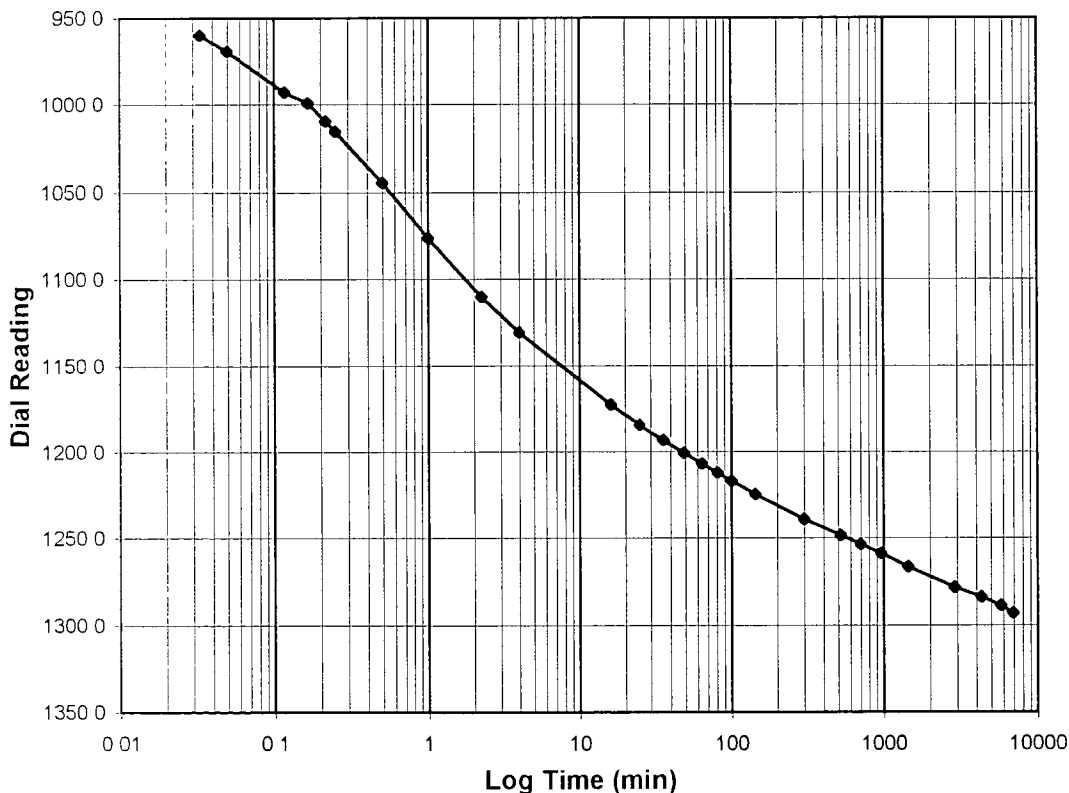
Client	BLASLAND, BOUCK, AND LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-04	Sample No.	SS53-R-POST S/T
Lab ID	2004-221-04-03	Visual Description	BROWN STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	4.0-8.0
Final Reading (div)	1293.2
Consolidometer No.	3
1 Division (in)	0.0001
Start Date	11/24/04
Start Time	14:23:13

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>826.7</b>
0.03	959.8
0.05	969.3
0.12	992.7
0.17	999.2
0.22	1009.6
0.25	1015.5
0.50	1044.6
1.00	1076.2
2.25	1110.4
4.00	1131.0
16.02	1172.8
25.00	1184.4
36.00	1193.3
49.00	1200.6
64.00	1207.0
81.00	1212.2
100.00	1216.9
144.00	1224.7
300.00	1239.1
520.00	1248.6
700.00	1253.6
960.00	1258.9
1440.00	1266.5
2880.00	1278.2
4320.00	1284.0
5760.00	1288.7
6887.62	1293.2



Tested By TM Date 11/24/04 Checked By GU Date 12-16-04

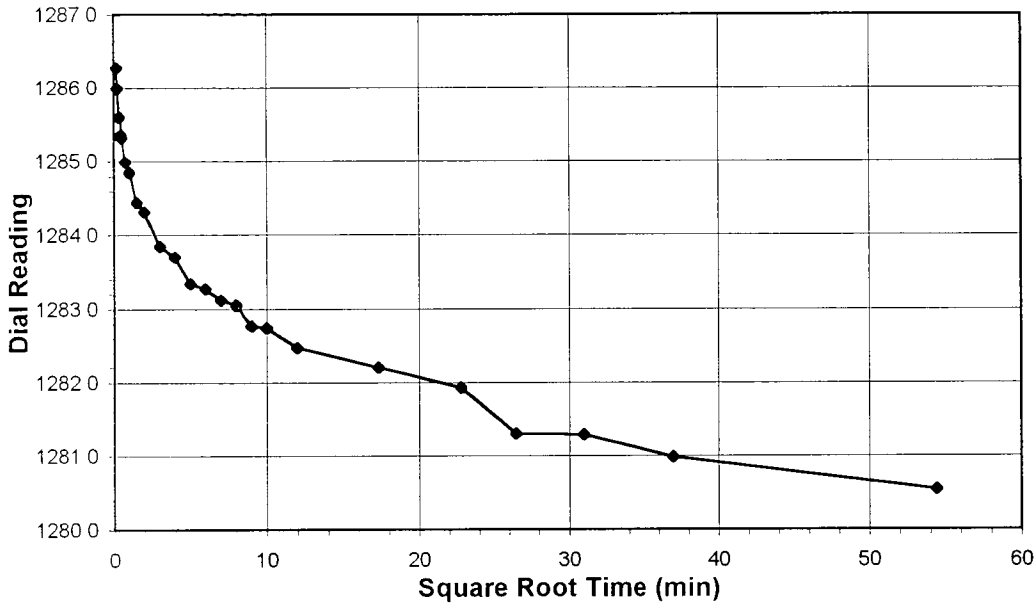


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

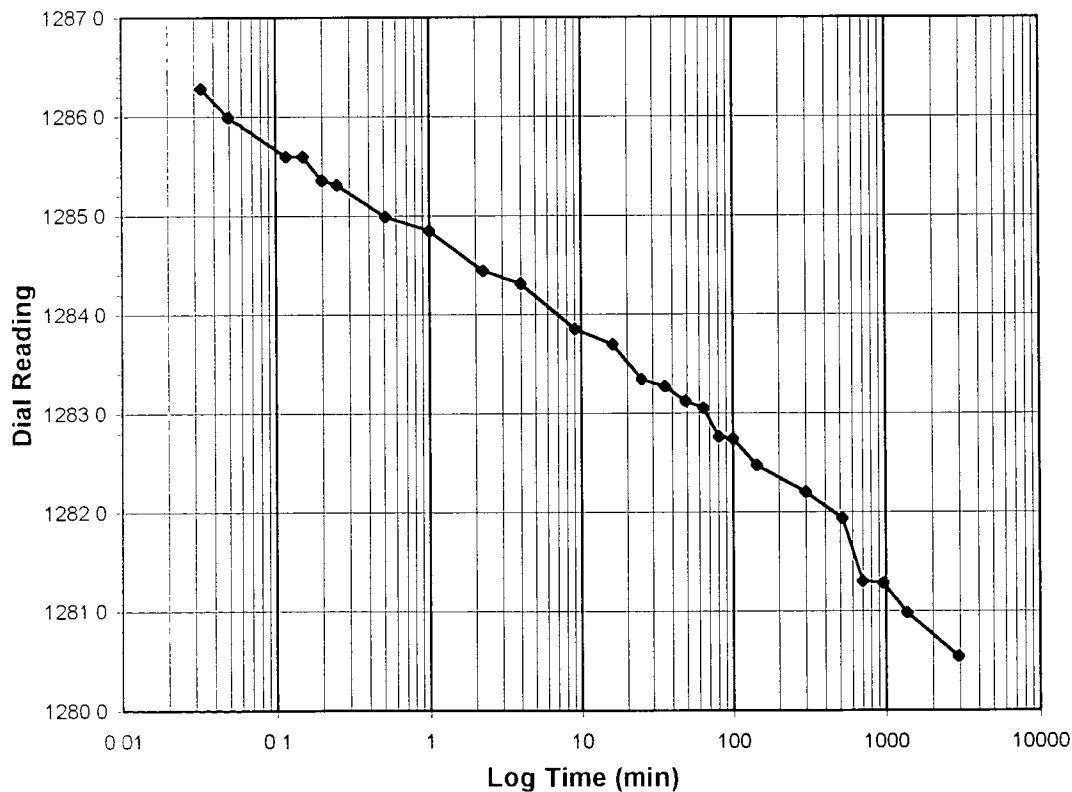
Client	BLASLAND, BOUCK, AND LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-04	Sample No.	SS53-R-POST S/T
Lab ID	2004-221-04-03	Visual Description	BROWN STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	8.0-4.0
Final Reading (div)	1280.5
Consolidometer No.	3
1 Division (in)	0.0001
Start Date	11/29/04
Start Time	9:21:30

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>1293.2</b>
0.03	1286.3
0.05	1286.0
0.12	1285.6
0.15	1285.6
0.20	1285.4
0.25	1285.3
0.52	1285.0
1.00	1284.9
2.25	1284.4
4.00	1284.3
9.08	1283.9
16.00	1283.7
25.02	1283.3
36.02	1283.3
49.00	1283.1
64.00	1283.1
81.00	1282.8
100.00	1282.7
144.00	1282.5
300.00	1282.2
520.00	1281.9
700.00	1281.3
960.00	1281.3
1369.35	1281.0
2964.32	1280.5



Tested By *TM* Date *11/29/04* Checked By *GU* Date *12-16-04*

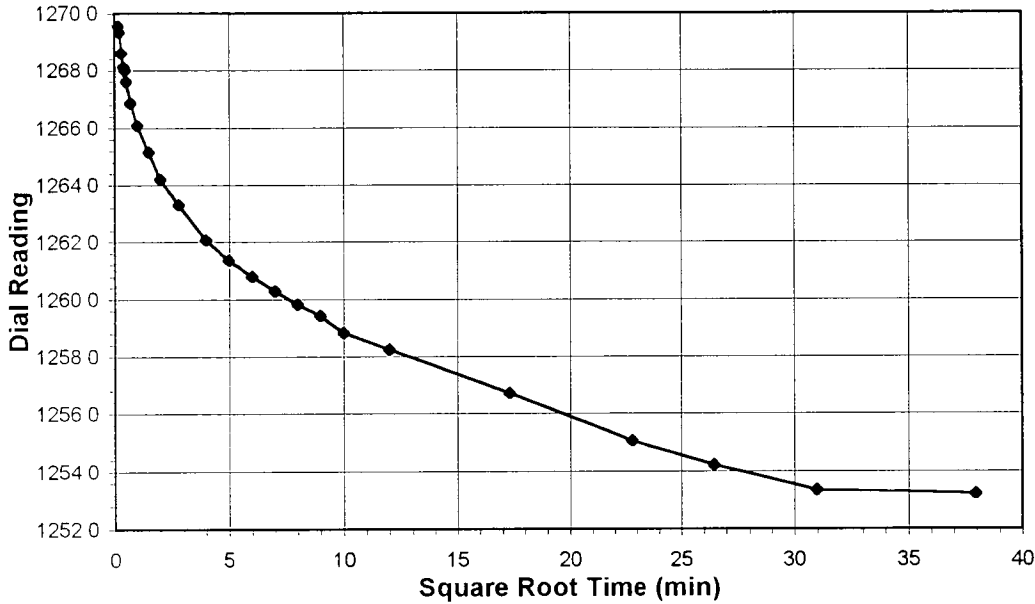


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, AND LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-04	Sample No.	SS53-R-POST S/T
Lab ID	2004-221-04-03	Visual Description	BROWN STABILIZED MATERIAL

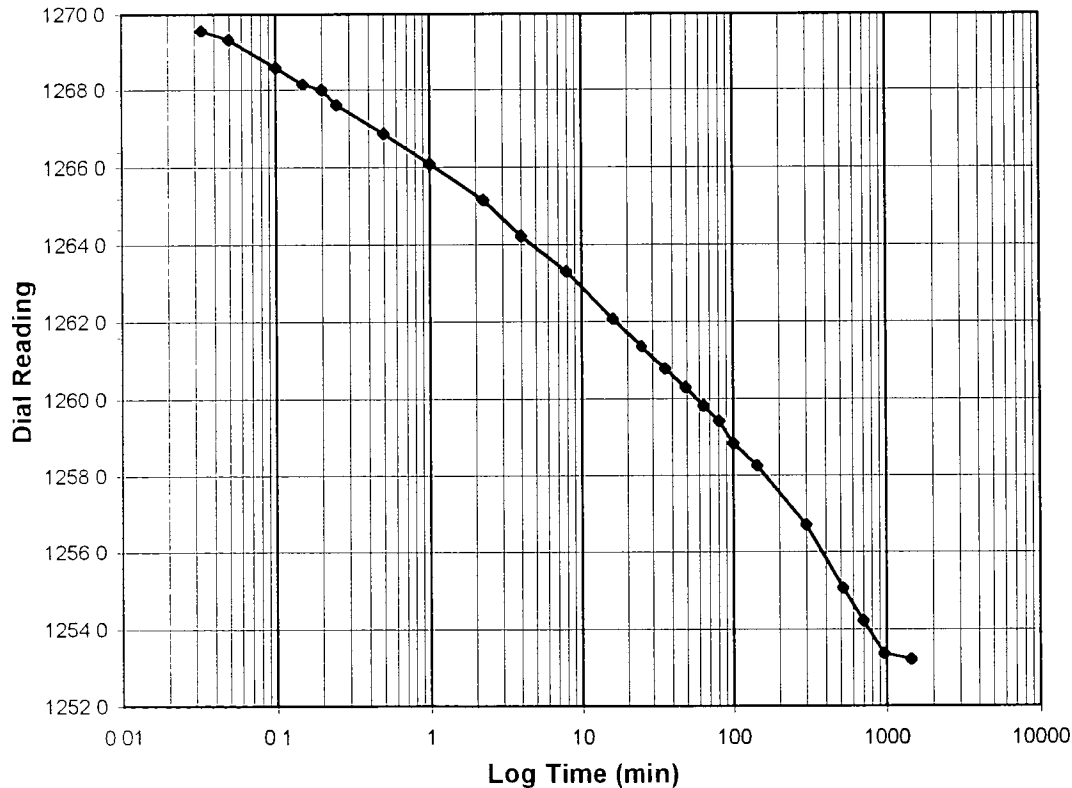
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	4.0-1.0
Final Reading (div)	1253.2
Consolidometer No.	3
1 Division (in)	0.0001

Start Date	12/1/04
Start Time	10:51:04

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>1280.5</b>
0.03	1269.6
0.05	1269.3
0.10	1268.6
0.15	1268.2
0.20	1268.0
0.25	1267.6
0.50	1266.9
1.00	1266.1
2.25	1265.2
4.00	1264.2
7.89	1263.3
16.00	1262.1
25.00	1261.4
36.00	1260.8
49.00	1260.3
64.00	1259.8
81.00	1259.4
100.00	1258.8
144.00	1258.3
300.00	1256.7
520.00	1255.1
700.02	1254.2
960.00	1253.4
1440.00	1253.2



Tested By *TM* Date *12/1/04* Checked By *GU* Date *12-16-04*

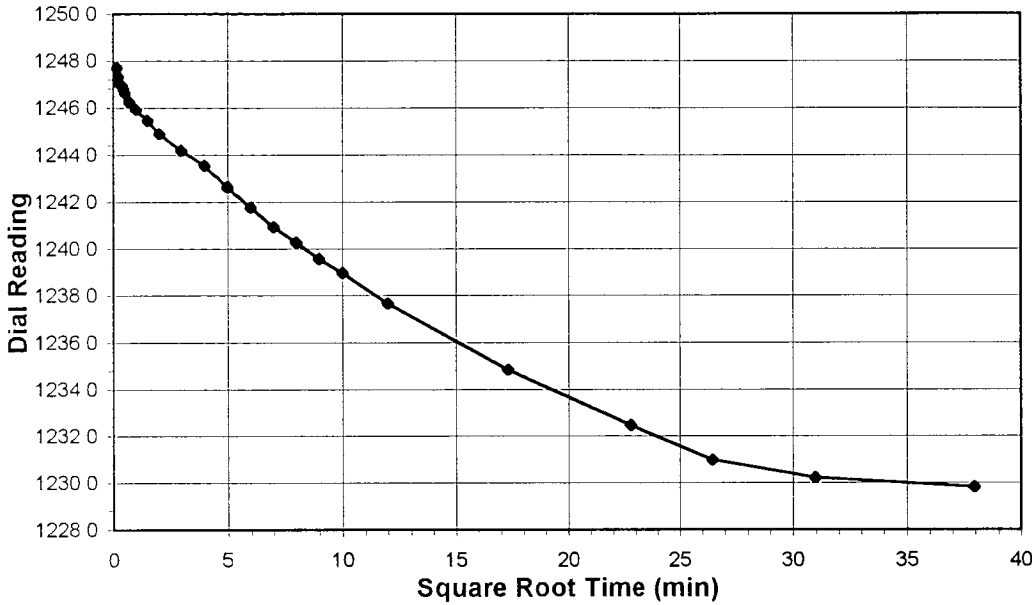


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

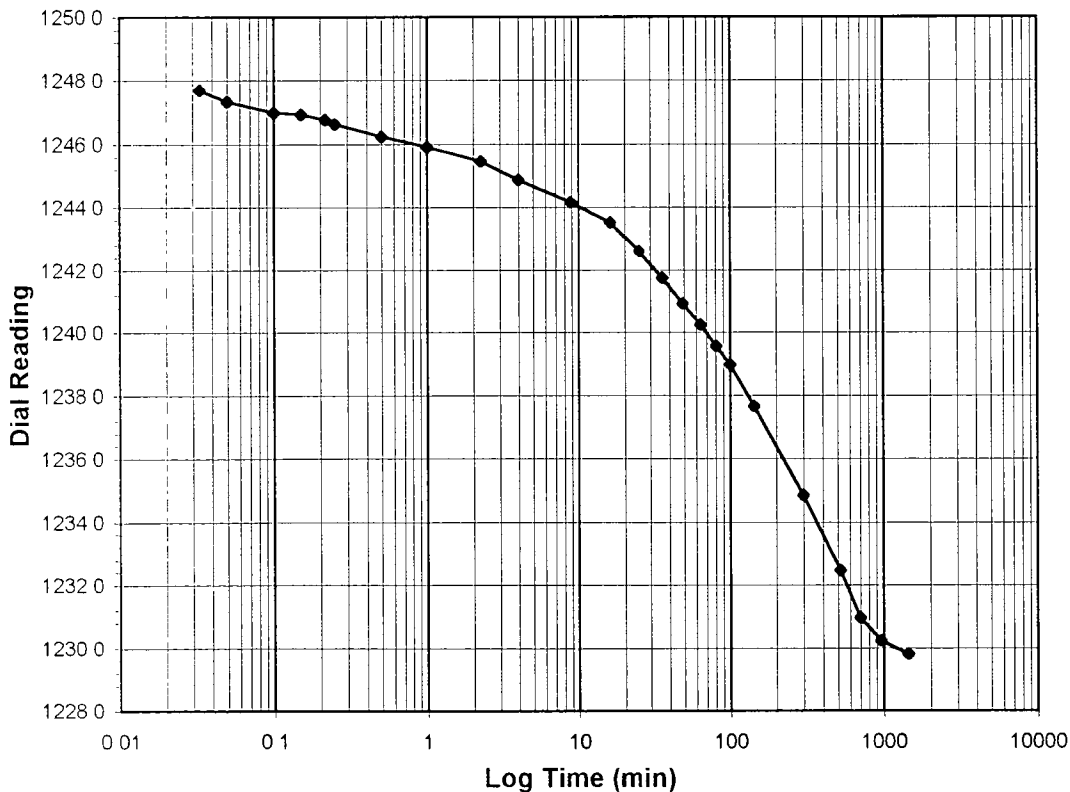
Client	BLASLAND, BOUCK, AND LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-04	Sample No.	SS53-R-POST S/T
Lab ID	2004-221-04-03	Visual Description	BROWN STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



<b>Test Load (tsf)</b>	<b>1.0-0.25</b>
<b>Final Reading (div)</b>	<b>1229.8</b>
Consolidometer No.	3
1 Division (in)	0.0001
<b>Start Date</b>	<b>12/2/04</b>
<b>Start Time</b>	<b>11:41:05</b>

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>1253.2</b>
0.03	1247.7
0.05	1247.3
0.10	1247.0
0.15	1246.9
0.22	1246.8
0.25	1246.6
0.50	1246.2
1.00	1245.9
2.25	1245.5
4.00	1244.9
8.78	1244.2
16.00	1243.5
25.00	1242.6
36.00	1241.8
49.00	1240.9
64.00	1240.3
81.00	1239.6
100.00	1239.0
144.00	1237.7
300.00	1234.9
520.00	1232.5
700.00	1231.0
960.00	1230.2
1440.00	1229.8



Tested By *TM* Date *12/2/04* Checked By *GU* Date *12-16-04*

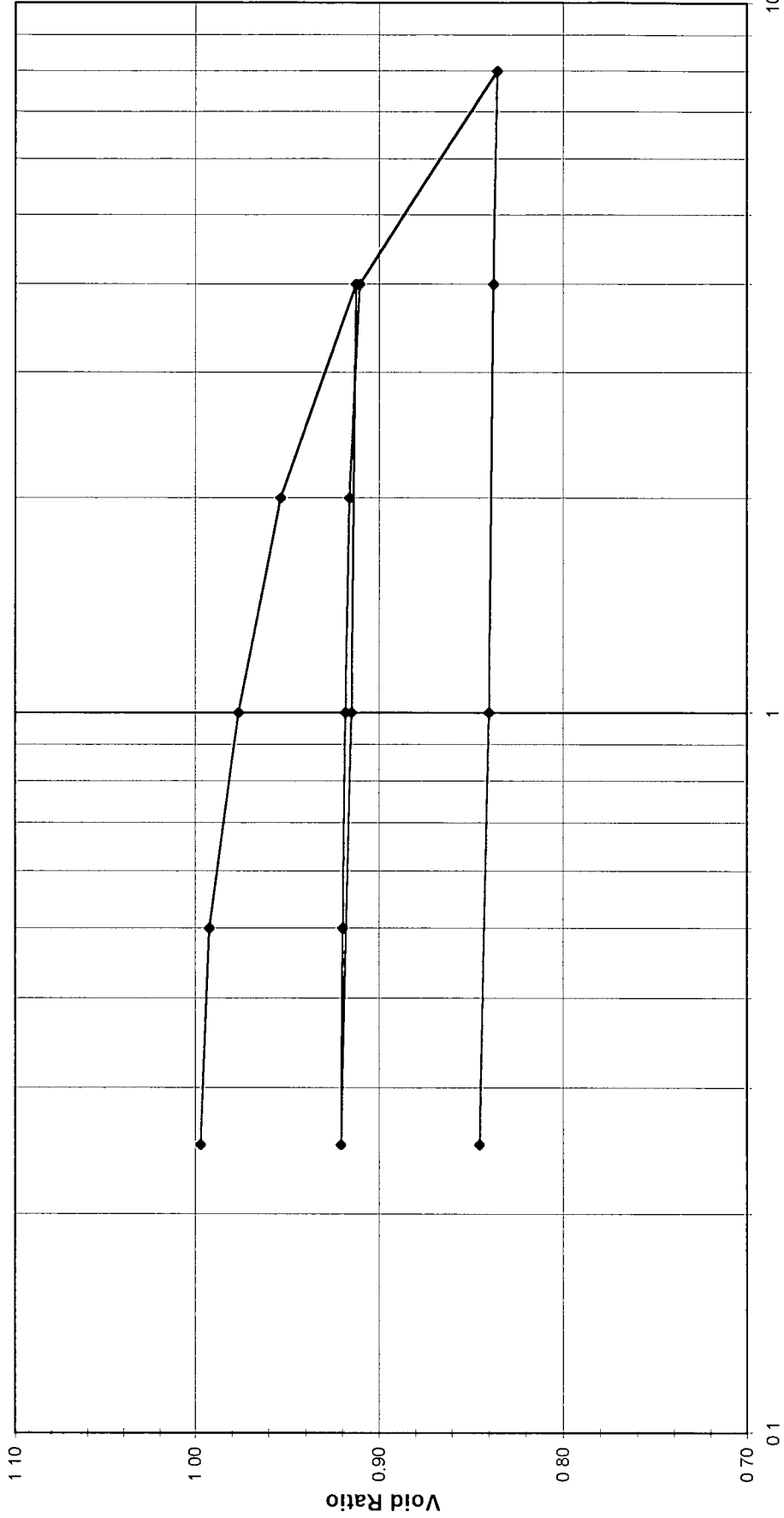


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 / AASHTO T216-03 (SOP-S24)

Client	BLASLAND, BOUCK, & LEE	Boring No.	9-22-04
Client Reference	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-04	Sample No.	SS54-R-POST S/T
Lab ID	2004-221-04-04	Visual Description	BROWN STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Log P (tsf)

Tested By DB Date 1/14/05 Approved By *Jem* Date 1-14-05



**ONE DIMENSIONAL CONSOLIDATION**

ASTM D 2435-96 / AASHTO T216-03 (SOP-S24)

Client	BLASLAND, BOUCK, & LEE	Boring No	9-22-04
Client Reference	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-04	Sample No.	SS54-R-POST S/T
Lab ID	2004-221-04-04	Visual Description	BROWN STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED

**Consolidometer No.** 3

**1 Division** = 0.0001 (in)

**Sample Properties**

	Initial	Final
<i>Water Content</i>		T16
Tare Number	444	223.76
Wt. Tare & WS (gm)	131.36	187.52
Wt. Tare & DS (gm)	125.77	36.24
Wt. Water (gm)	5.59	92.71
Wt. Tare (gm)	99.84	94.81
Wt. DS (gm)	25.93	38.22
Water Content (%)	21.56	

**Sample Parameters**

Sample Diameter (in)	2.5	2.5
Sample Height (in)	1	0.919
Sample Volume (cc)	80.44	73.89
Wt. Wet Sample + Ring (gm)	277.37	295.39
Wt. of Ring (gm)	145.94	145.94
Wt. of Wet Sample (gm)	131.43	149.45
Wet Density (pcf)	101.95	126.21
Wet Density (g/cc)	1.63	2.02
Water Content (%)	21.56	38.22
Wt. of Dry Sample (gm)	108.12	108.12
Dry Density (pcf)	83.87	91.31
Dry Density (g/cc)	1.34	1.46
Void Ratio	1.0087	0.8451
Saturation (%)	57.70	122.12
Specific Gravity	2.70	Assumed

**Test Data Summary**

Applied Pressure (tsf)	Final Dial Reading (div)	Machine Deflection (div)	Corrected Reading (div)	Height of Sample (mm)	Volume (cc)	Dry Density (g/cc)	Void Ratio
Seating	0	0	0	25.400	80.440	1.34413	1.00874
0.25	58.4	0.8	57.6	25.254	79.977	1.35191	0.99718
0.5	85.1	2.5	82.7	25.190	79.775	1.35533	0.99214
1	168.6	7.6	161.0	24.991	79.144	1.36613	0.97639
2	290.4	15.6	274.8	24.702	78.230	1.38210	0.95355
4	507.6	28.7	478.9	24.183	76.587	1.41174	0.91253
1	479.3	11.6	467.7	24.212	76.678	1.41008	0.91479
0.25	443.6	4.4	439.2	24.284	76.907	1.40587	0.92052
0.5	447.5	4.8	442.7	24.275	76.878	1.40639	0.91981
1	459.4	8.1	451.4	24.254	76.809	1.40766	0.91808
2	477.7	16.3	461.4	24.228	76.728	1.40915	0.91605
4	517.3	27.5	489.8	24.156	76.500	1.41335	0.91036
8	905.6	43.0	862.6	23.209	73.501	1.47102	0.83546
4	891.4	38.7	852.8	23.234	73.580	1.46943	0.83745
1	857.1	16.2	840.9	23.264	73.675	1.46754	0.83982
0.25	822.3	7.8	814.5	23.331	73.888	1.46332	0.84513

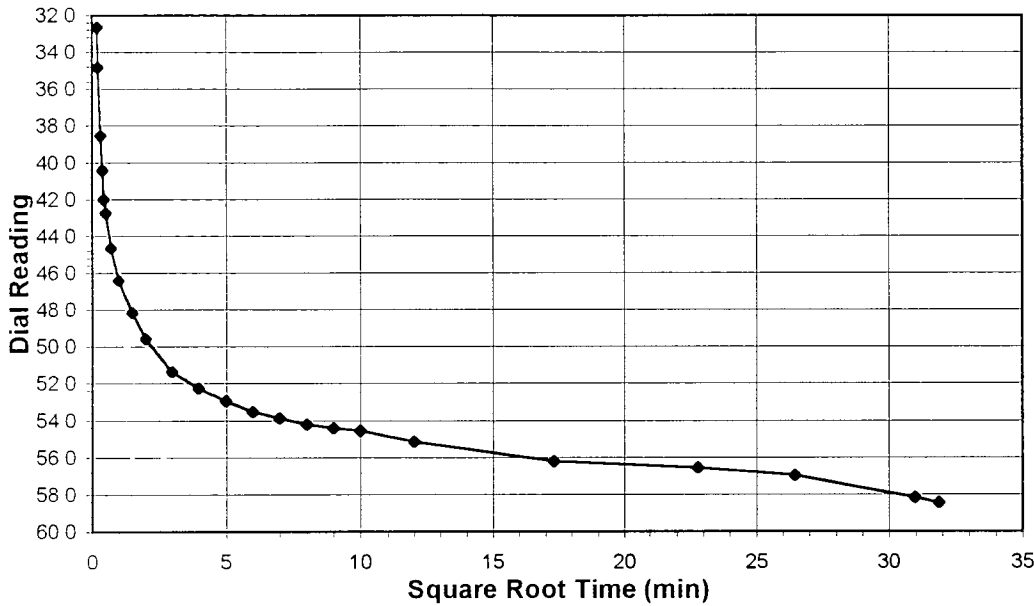
Tested By DB Date 1/14/05 Input Checked By BF Date 1-14-05



**ONE DIMENSIONAL CONSOLIDATION**  
ASTM D 2435-96 (SOP-S24A)

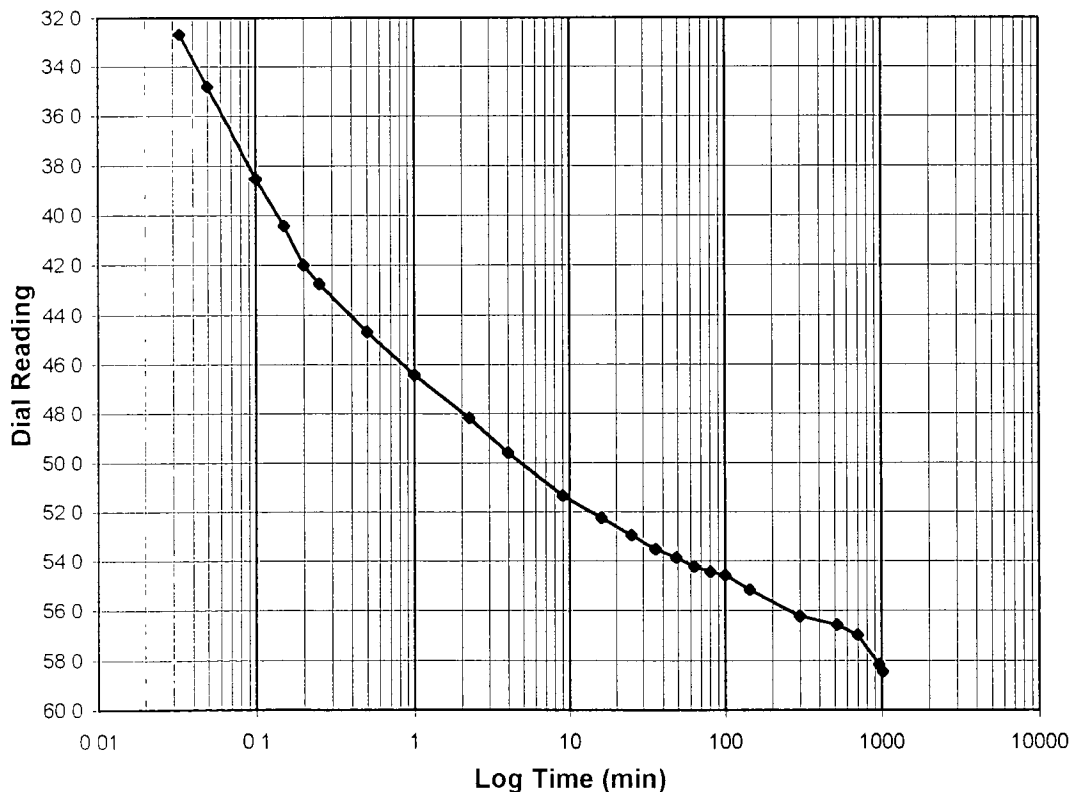
Client	BLASLAND, BOUCK, & LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-04	Sample No.	SS54-R-POST S/T (BOTTOM)
Lab ID	2004-221-04-04	Visual Description	BROWN STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0-0.25
Final Reading (div)	58.4
Consolidometer No.	3
1 Division (in)	0.0001
Start Date	12/28/04
Start Time	16:29:11

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<i>0.0</i>
0.03	32.7
0.05	34.8
0.10	38.5
0.15	40.4
0.20	42.0
0.25	42.8
0.50	44.7
1.00	46.4
2.25	48.2
4.02	49.6
9.02	51.4
16.00	52.3
25.00	53.0
36.00	53.5
49.00	53.9
64.00	54.2
81.00	54.4
100.00	54.6
144.00	55.2
300.00	56.2
520.00	56.6
700.00	57.0
960.00	58.2
1016.60	58.4



Tested By *TM* Date *12/28/04* Checked By *BF* Date *1-14-05*

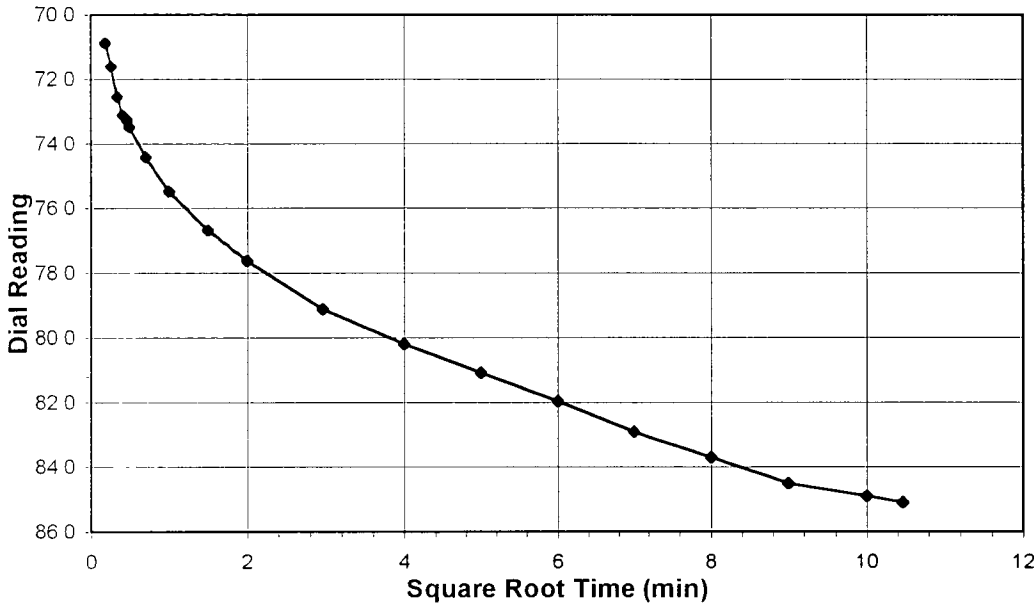


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-04	Sample No.	SS54-R-POST S/T (BOTTOM)
Lab ID	2004-221-04-04	Visual Description	BROWN STABILIZED MATERIAL

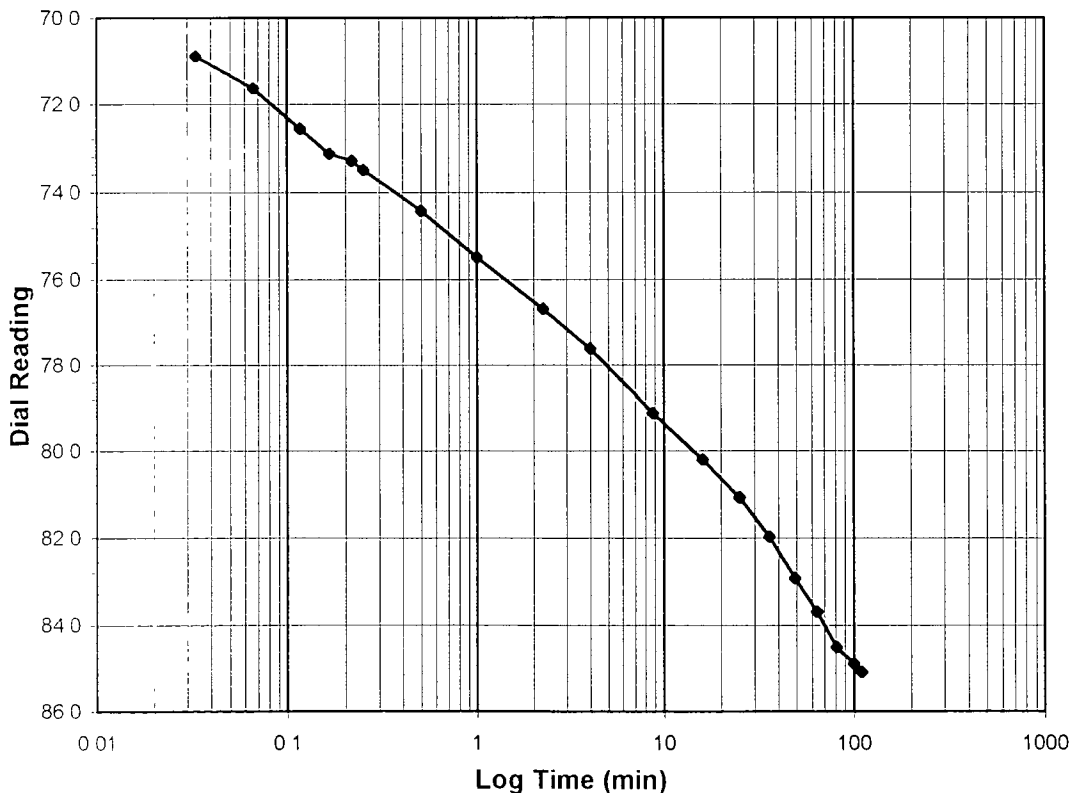
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 0.25-0.5  
 Final Reading (div) 85.1  
 Consolidometer No. 3  
 1 Division (in) 0.0001

Start Date 12/29/04  
 Start Time 9:34:56

Elapsed Time (min)	Dial Reading (div)
Initial	58.4
0.03	70.9
0.07	71.6
0.12	72.6
0.17	73.1
0.22	73.3
0.25	73.5
0.50	74.4
1.00	75.5
2.25	76.7
4.00	77.6
8.78	79.1
16.00	80.2
25.00	81.1
36.00	82.0
49.00	82.9
64.00	83.7
81.02	84.5
100.00	84.9
109.60	85.1



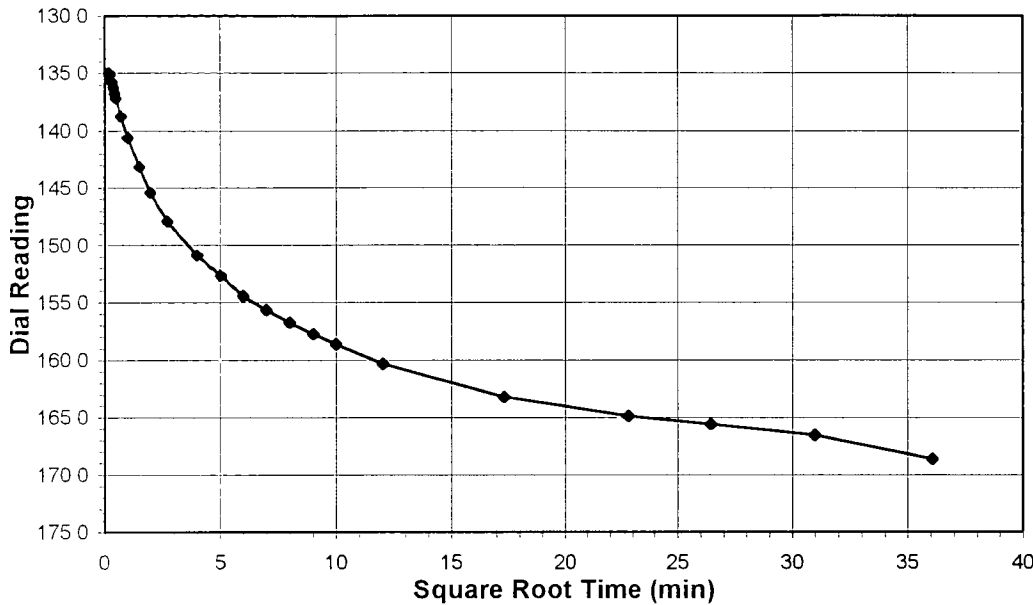
Tested By TM Date 12/29/04 Checked By BF Date 1-14-05

# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

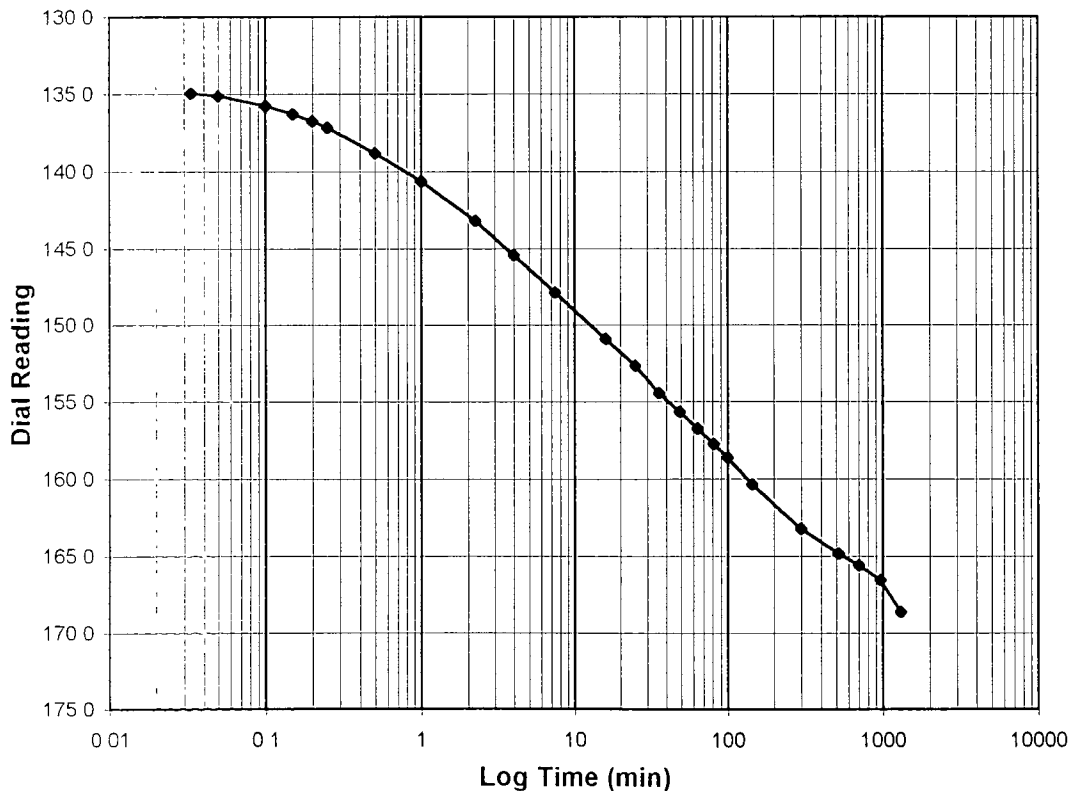
Client	BLASLAND, BOUCK, & LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-04	Sample No.	SS54-R-POST S/T (BOTTOM)
Lab ID	2004-221-04-04	Visual Description	BROWN STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.5-1.0
Final Reading (div)	168.6
Consolidometer No.	3
1 Division (in)	0.0001
Start Date	12/29/04
Start Time	11:30:48

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>85.1</b>
0.03	135.0
0.05	135.1
0.10	135.7
0.15	136.3
0.20	136.7
0.25	137.2
0.50	138.8
1.00	140.6
2.25	143.2
4.00	145.4
7.40	147.9
16.00	150.9
25.00	152.7
36.00	154.4
49.00	155.7
64.00	156.7
81.00	157.8
100.00	158.6
144.00	160.4
300.02	163.2
520.00	164.9
700.00	165.6
960.00	166.6
1301.43	168.6



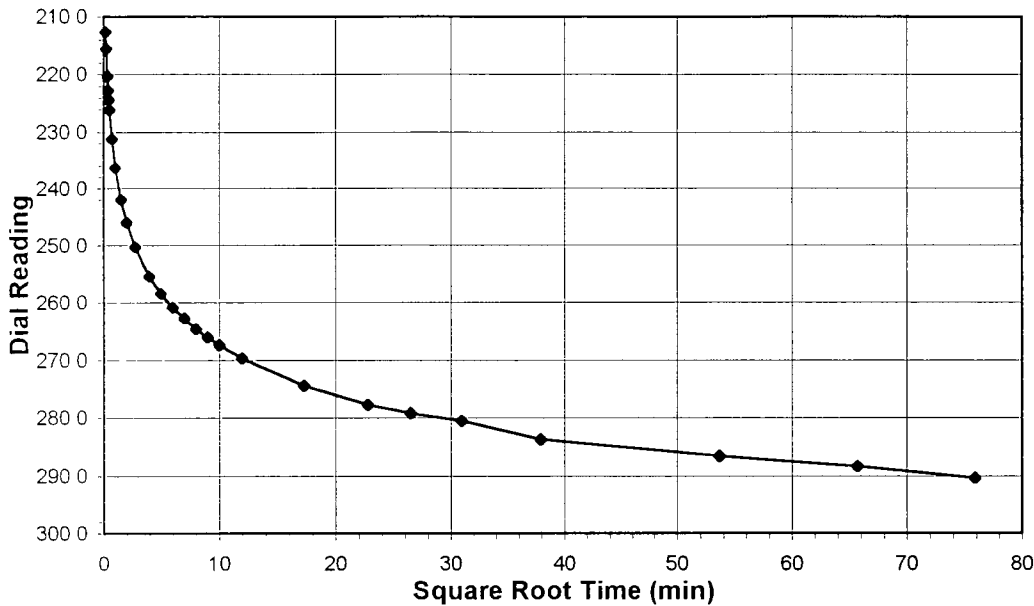
Tested By TM Date 12/29/04 Checked By BF Date 1-14-05

# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

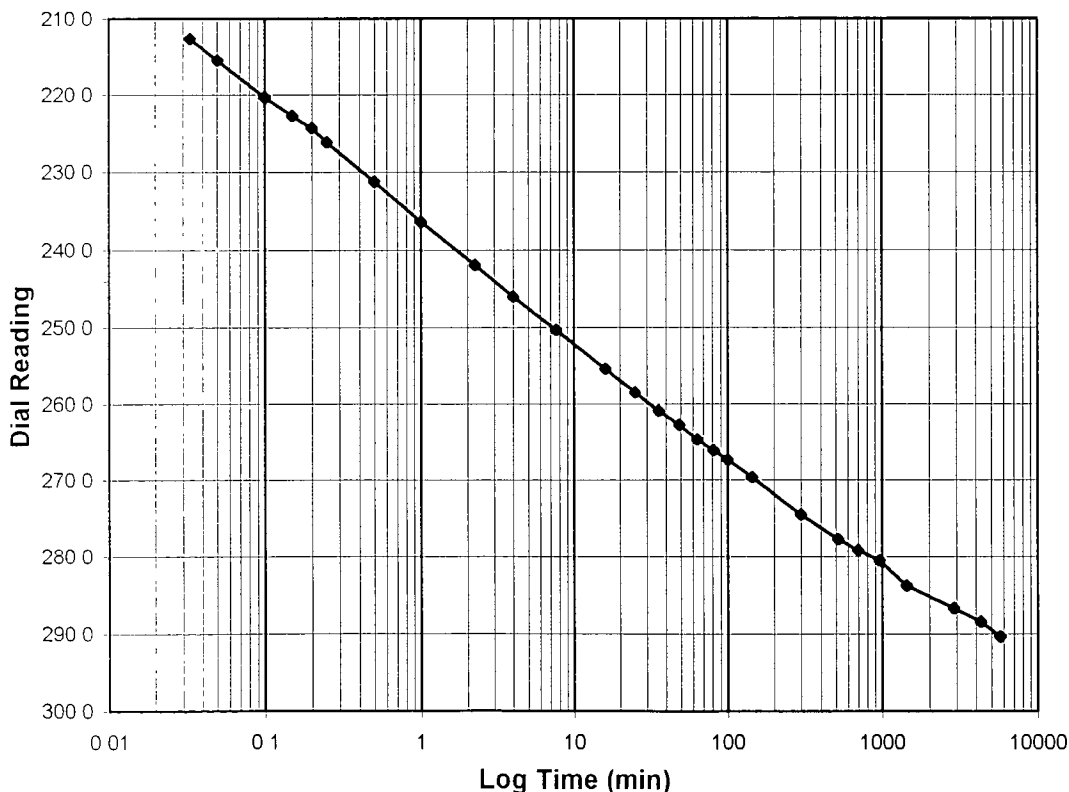
Client	BLASLAND, BOUCK, & LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-04	Sample No.	SS54-R-POST S/T (BOTTOM)
Lab ID	2004-221-04-04	Visual Description	BROWN STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



<b>Test Load</b> (tsf)	<b>1.0-2.0</b>
<b>Final Reading</b> (div)	<b>290.4</b>
Consolidometer No.	3
1 Division (in)	0.0001
<b>Start Date</b>	<b>12/30/04</b>
<b>Start Time</b>	<b>9:20:42</b>

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>168.6</b>
0.03	212.7
0.05	215.5
0.10	220.3
0.15	222.7
0.20	224.3
0.25	226.1
0.50	231.2
1.00	236.3
2.25	241.9
4.00	246.0
7.62	250.3
16.00	255.4
25.00	258.5
36.00	260.9
49.00	262.7
64.00	264.7
81.00	266.1
100.00	267.3
144.00	269.7
300.00	274.5
520.00	277.8
700.00	279.2
960.00	280.6
1440.00	283.8
2880.00	286.7
4320.00	288.4
5760.00	290.4

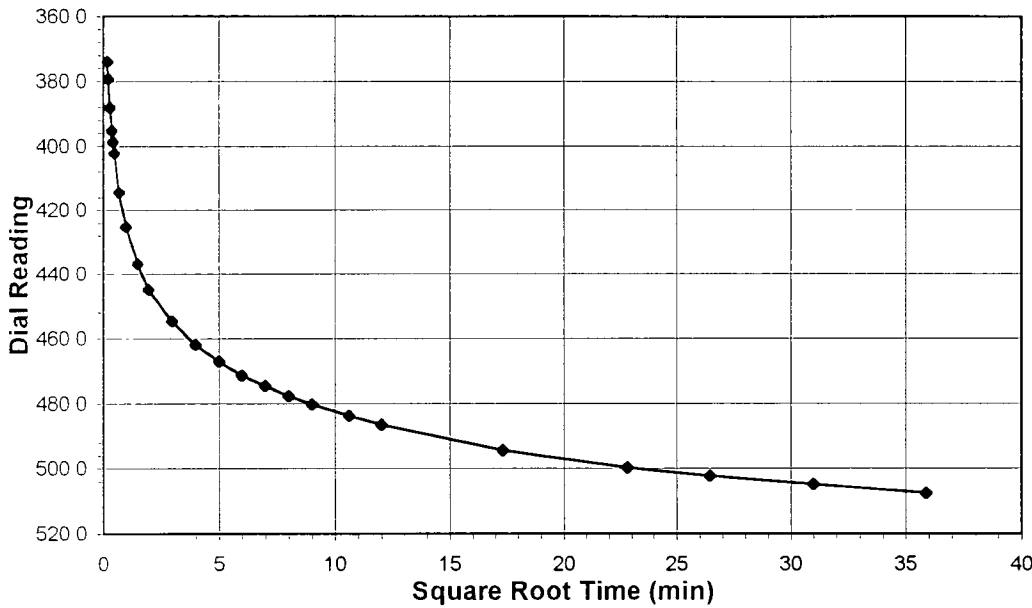


Tested By *TM* Date *12/30/04* Checked By *BF* Date *1-14-05*

**ONE DIMENSIONAL CONSOLIDATION**  
ASTM D 2435-96 (SOP-S24A)

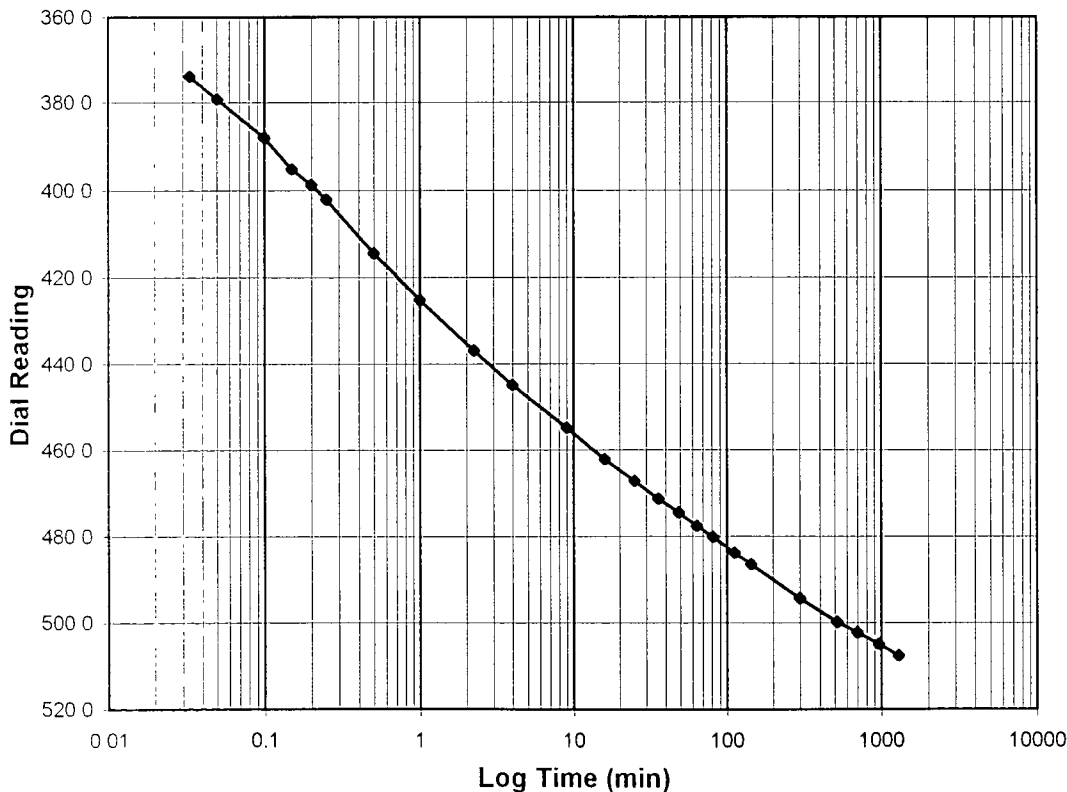
Client	BLASLAND, BOUCK, & LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-04	Sample No.	SS54-R-POST S/T (BOTTOM)
Lab ID	2004-221-04-04	Visual Description	BROWN STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



<b>Test Load</b> (tsf)	<b>2.0-4.0</b>
<b>Final Reading</b> (div)	<b>507.6</b>
Consolidometer No.	3
1 Division (in)	0.0001
<b>Start Date</b>	<b>1/3/05</b>
<b>Start Time</b>	<b>9:59:31</b>

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>290.4</b>
0.03	373.9
0.05	379.2
0.10	388.1
0.15	395.2
0.20	398.8
0.25	402.2
0.50	414.5
1.00	425.2
2.25	436.9
4.00	444.9
9.02	454.8
16.00	462.1
25.00	467.2
36.00	471.4
49.02	474.6
64.00	477.7
81.00	480.2
112.53	483.9
144.00	486.5
300.00	494.5
520.02	499.8
700.00	502.3
960.00	504.9
1288.60	507.6



Tested By *TM* Date *1/3/05* Checked By *BF* Date *1-14-05*

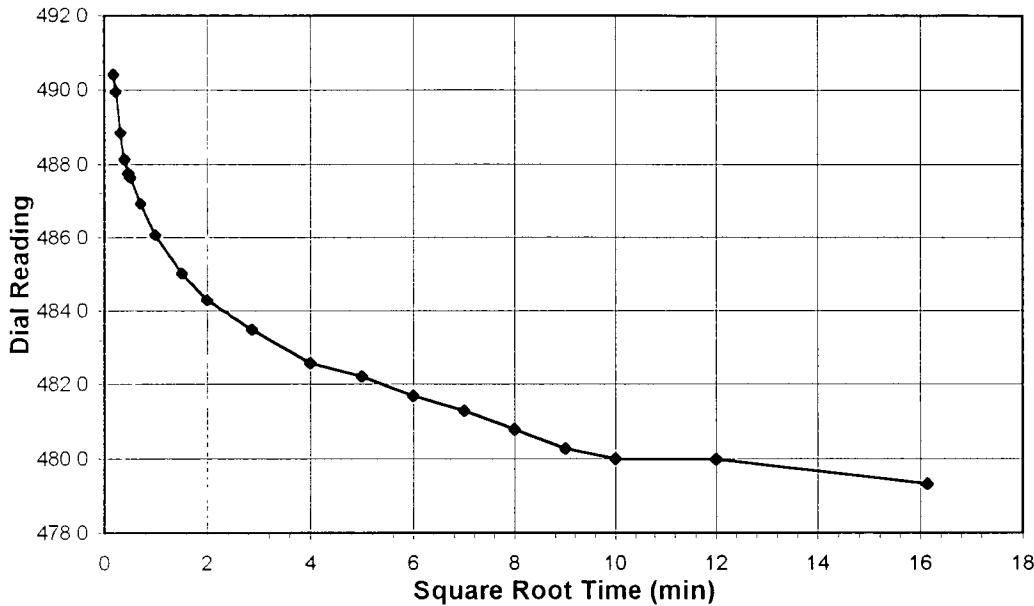


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

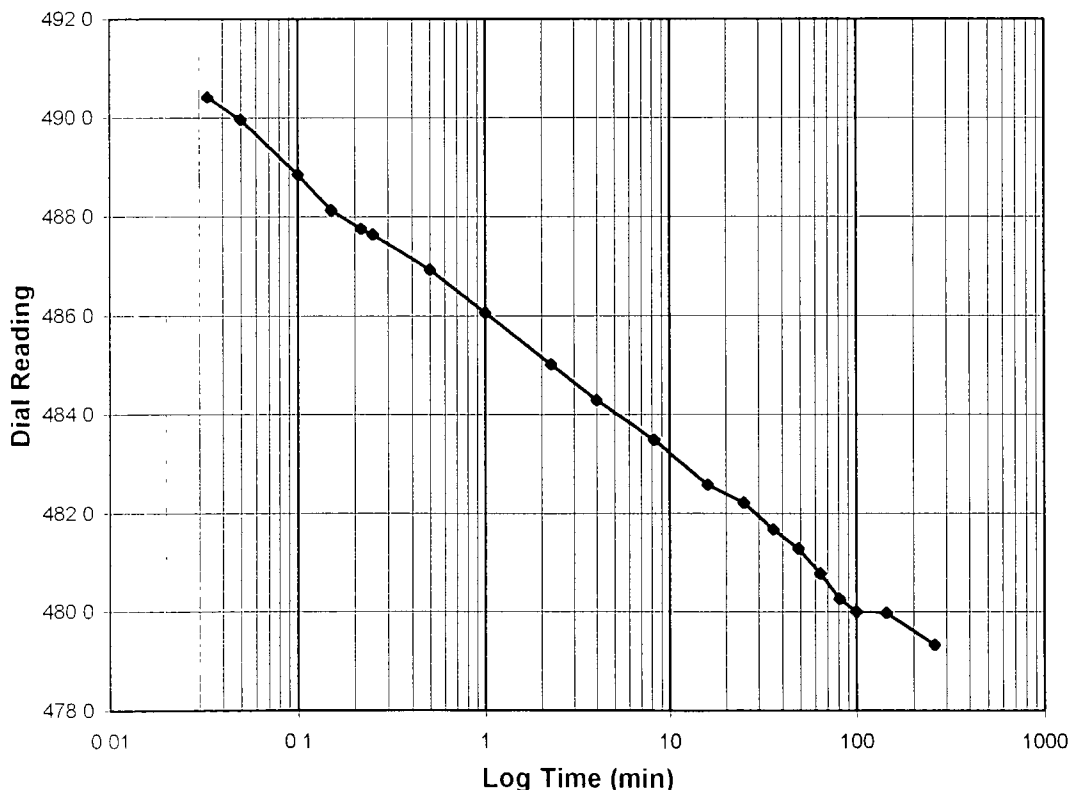
Client	BLASLAND, BOUCK, & LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-04	Sample No.	SS54-R-POST S/T (BOTTOM)
Lab ID	2004-221-04-04	Visual Description	BROWN STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	4.0-1.0
Final Reading (div)	479.3
Consolidometer No.	3
1 Division (in)	0.0001
Start Date	1/4/05
Start Time	7:33:03

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>507.6</b>
0.03	490.4
0.05	490.0
0.10	488.9
0.15	488.1
0.22	487.8
0.25	487.6
0.50	486.9
1.00	486.1
2.27	485.0
4.00	484.3
8.28	483.5
16.00	482.6
25.00	482.2
36.00	481.7
49.00	481.3
64.00	480.8
81.00	480.3
100.00	480.0
144.00	480.0
260.53	479.3



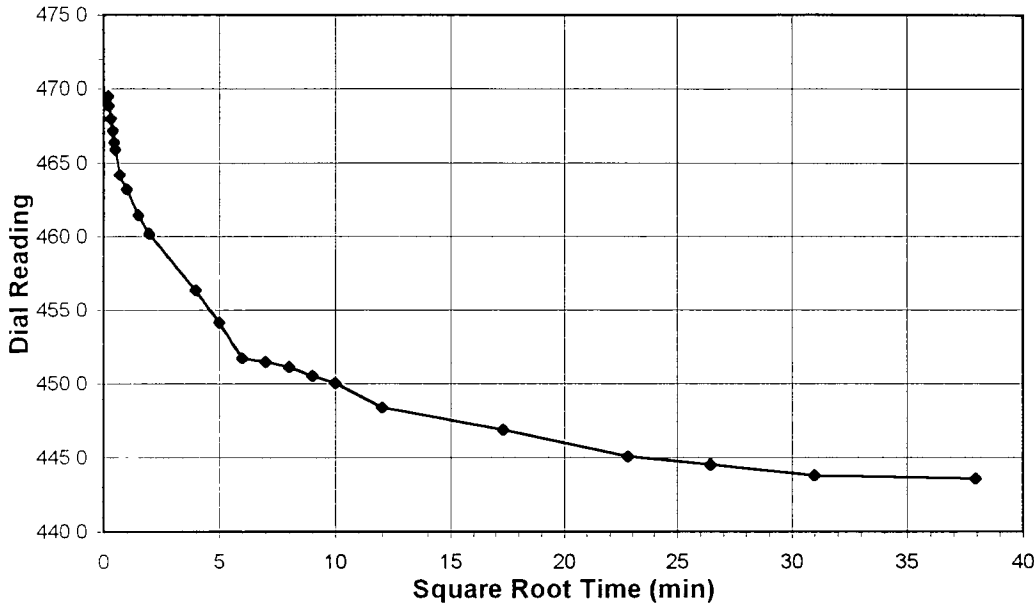
Tested By *TM* Date *1/4/05* Checked By *BF* Date *1-14-05*

# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

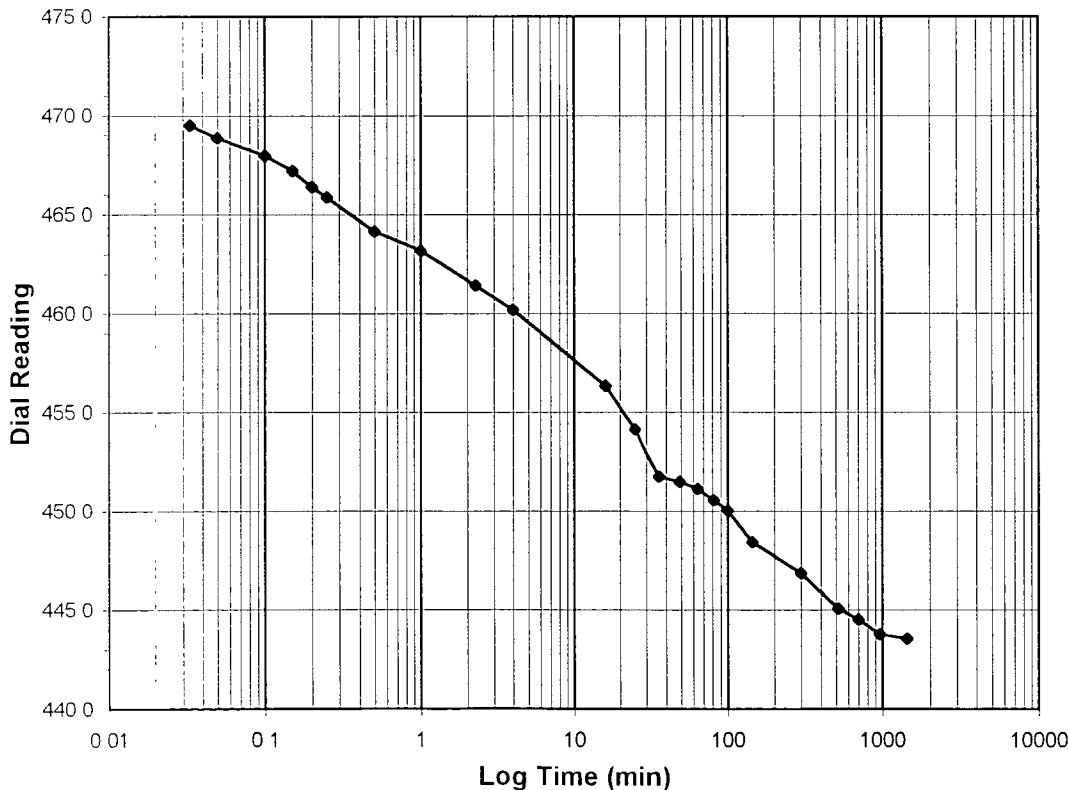
Client	BLASLAND, BOUCK, & LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-04	Sample No.	SS54-R-POST S/T (BOTTOM)
Lab ID	2004-221-04-04	Visual Description	BROWN STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



<b>Test Load</b> (tsf)	<b>1.0-0.25</b>
<b>Final Reading</b> (div)	<b>443.6</b>
Consolidometer No.	3
1 Division (in)	0.0001
<b>Start Date</b>	<b>1/4/05</b>
<b>Start Time</b>	<b>11:57:42</b>

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>479.3</b>
0.03	469.5
0.05	468.9
0.10	468.0
0.15	467.2
0.20	466.4
0.25	465.9
0.50	464.2
1.00	463.2
2.27	461.4
4.00	460.2
16.00	456.4
25.00	454.1
36.02	451.7
49.02	451.5
64.00	451.1
81.00	450.5
100.00	450.0
144.00	448.4
300.02	446.9
520.00	445.1
700.00	444.5
960.00	443.8
1440.00	443.6



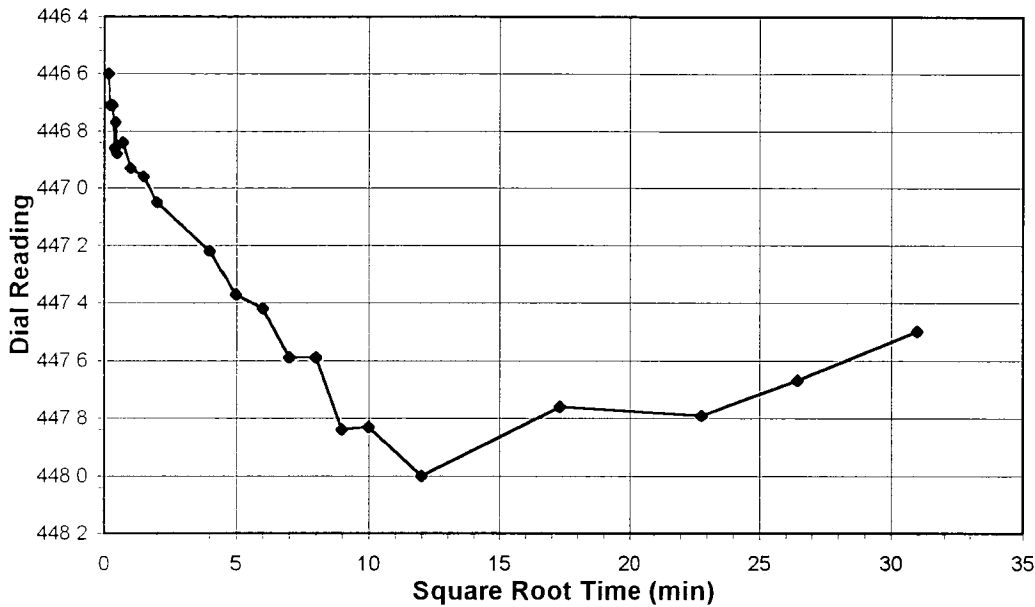
Tested By *TM* Date *1/4/05* Checked By *BF* Date *1-14-05*

# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-04	Sample No.	SS54-R-POST S/T (BOTTOM)
Lab ID	2004-221-04-04	Visual Description	BROWN STABILIZED MATERIAL

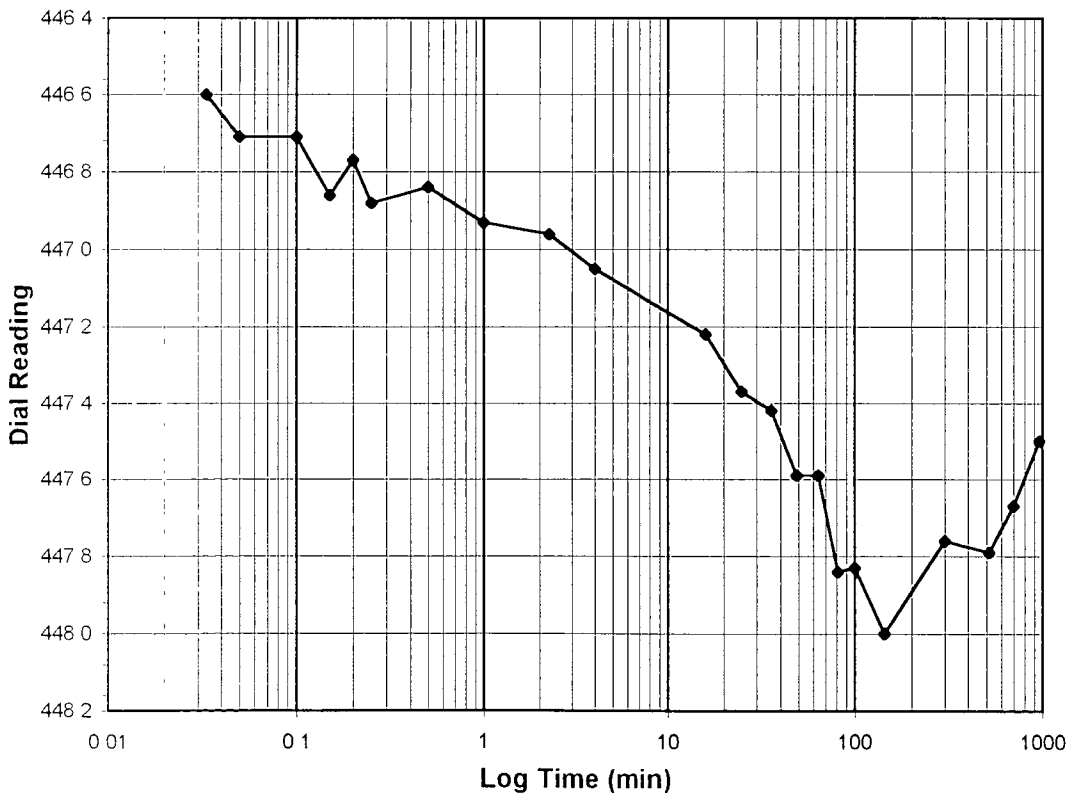
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.25-0.50
Final Reading (div)	448.0
Consolidometer No.	3
1 Division (in)	0.0001

Start Date	1/5/05
Start Time	12:47:59

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>443.6</b>
0.03	446.6
0.05	446.7
0.10	446.7
0.15	446.9
0.20	446.8
0.25	446.9
0.50	446.8
1.00	446.9
2.25	447.0
4.00	447.1
16.00	447.2
25.00	447.4
36.00	447.4
49.00	447.6
64.00	447.6
81.00	447.8
100.00	447.8
144.00	448.0
300.00	447.8
520.00	447.8
700.00	447.7
960.00	447.5



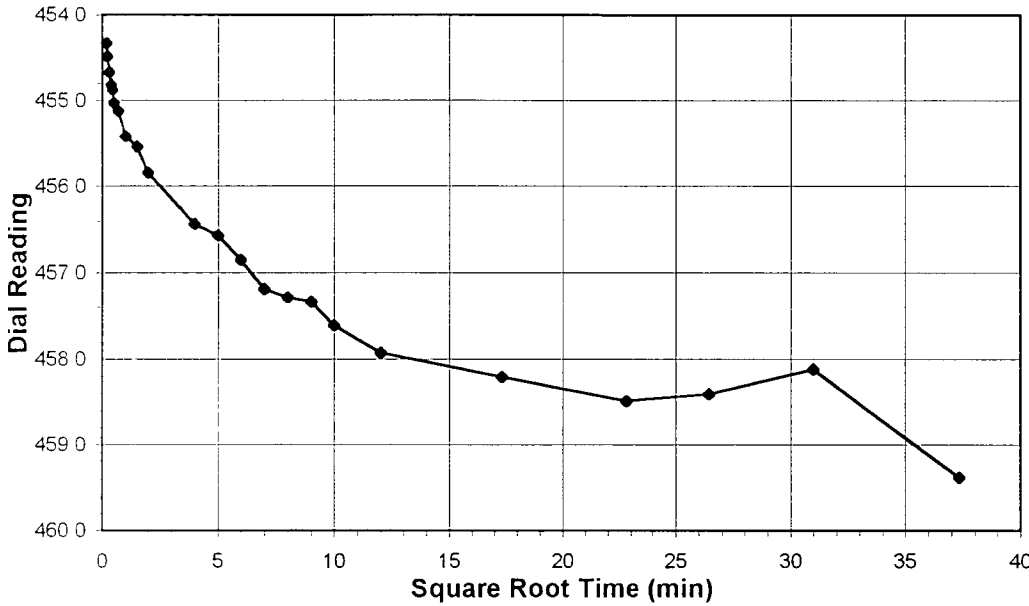
Tested By *TM* Date *1/5/05* Checked By *Bf* Date *1-14-05*



**ONE DIMENSIONAL CONSOLIDATION**  
ASTM D 2435-96 (SOP-S24A)

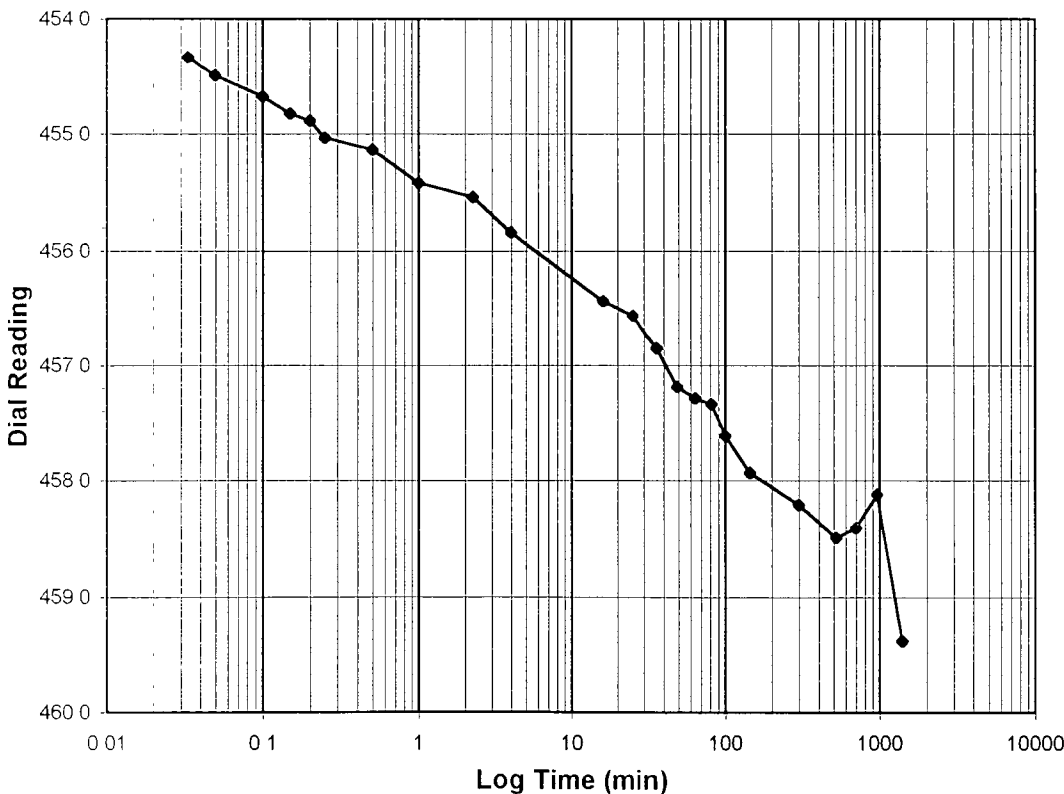
Client	BLASLAND, BOUCK, & LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-04	Sample No.	SS54-R-POST S/T (BOTTOM)
Lab ID	2004-221-04-04	Visual Description	BROWN STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.5-1.0
Final Reading (div)	459.4
Consolidometer No.	3
1 Division (in)	0.0001
Start Date	1/6/05
Start Time	9:55:31

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>448.4</b>
0.03	454.3
0.05	454.5
0.10	454.7
0.15	454.8
0.20	454.9
0.25	455.0
0.50	455.1
1.00	455.4
2.25	455.5
4.00	455.8
16.00	456.4
25.00	456.6
36.00	456.9
49.00	457.2
64.00	457.3
81.00	457.3
100.00	457.6
144.00	457.9
300.00	458.2
520.00	458.5
700.00	458.4
960.00	458.1
1394.00	459.4



Tested By *TM* Date *1/6/05* Checked By *BF* Date *1-14-05*



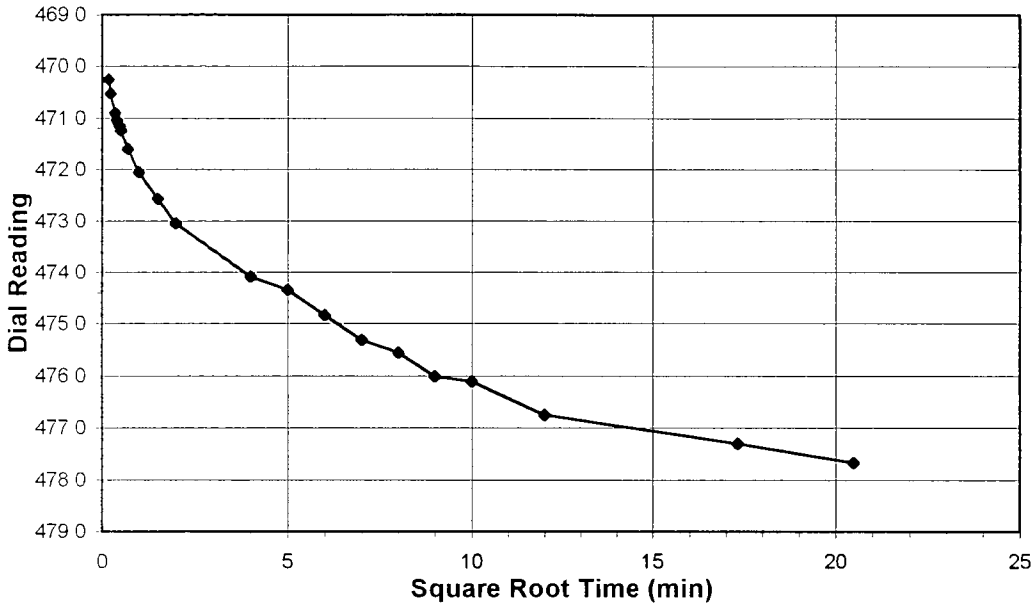


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

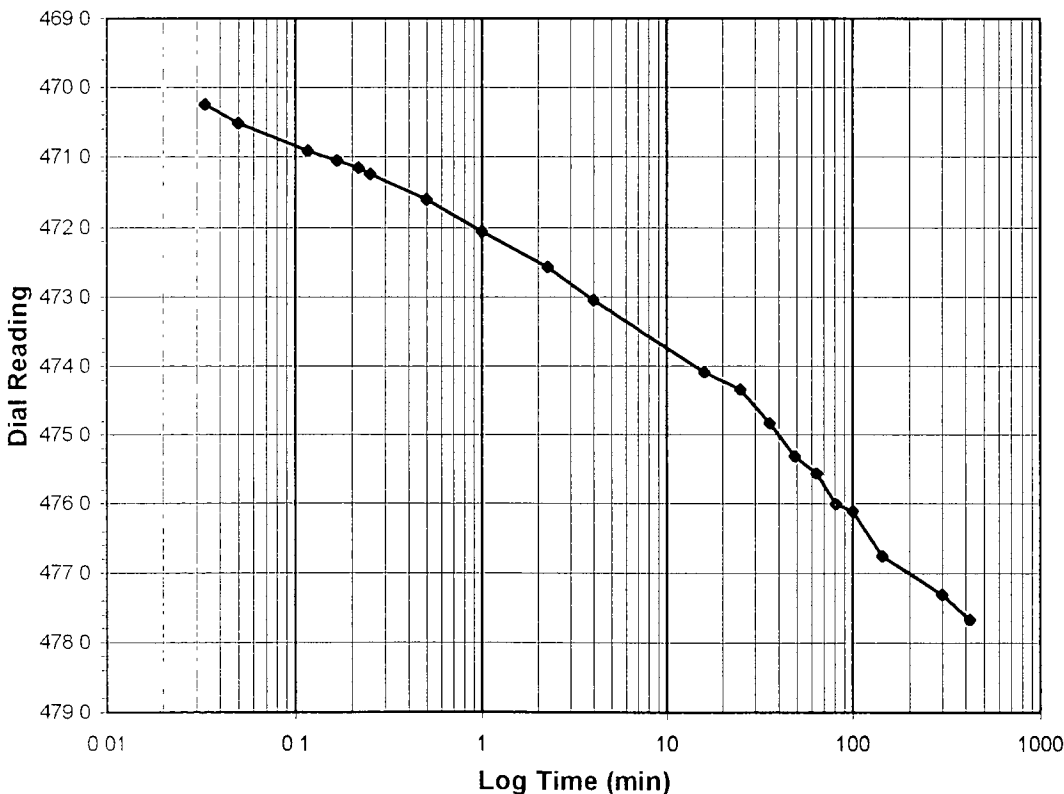
Client	BLASLAND, BOUCK, & LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-04	Sample No.	SS54-R-POST S/T (BOTTOM)
Lab ID	2004-221-04-04	Visual Description	BROWN STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	1.0-2.0
Final Reading (div)	477.7
Consolidometer No.	3
1 Division (in)	0.0001
Start Date	1/7/05
Start Time	9:17:19

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>459.4</b>
0.03	470.3
0.05	470.5
0.12	470.9
0.17	471.1
0.22	471.2
0.25	471.3
0.50	471.6
1.00	472.1
2.25	472.6
4.00	473.1
16.00	474.1
25.00	474.3
36.00	474.8
49.00	475.3
64.00	475.6
81.00	476.0
100.00	476.1
144.00	476.8
300.00	477.3
420.00	477.7



Tested By TM Date 1/7/05 Checked By BF Date 1-14-05

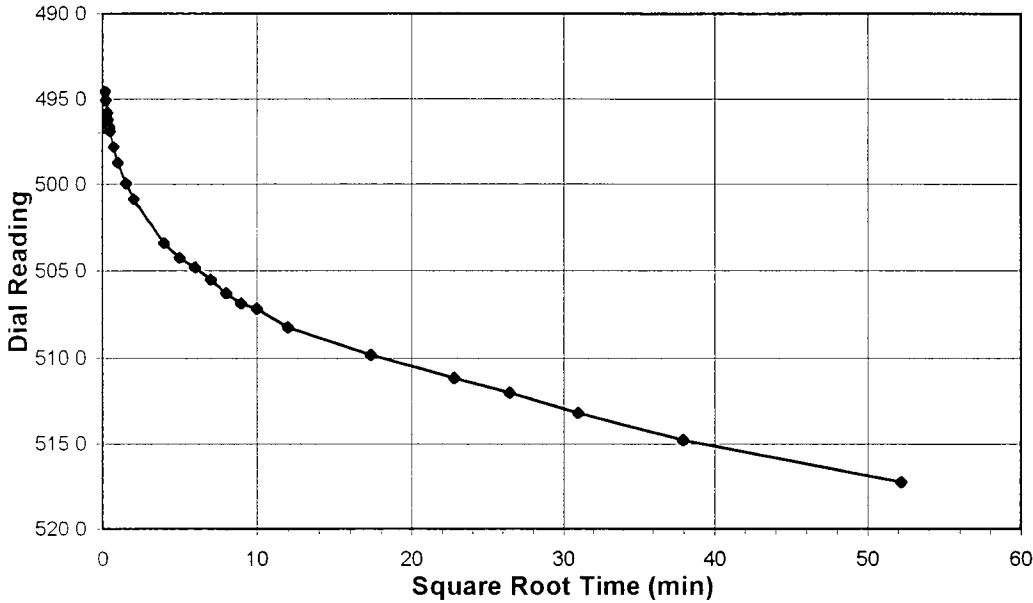


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-04	Sample No.	SS54-R-POST S/T (BOTTOM)
Lab ID	2004-221-04-04	Visual Description	BROWN STABILIZED MATERIAL

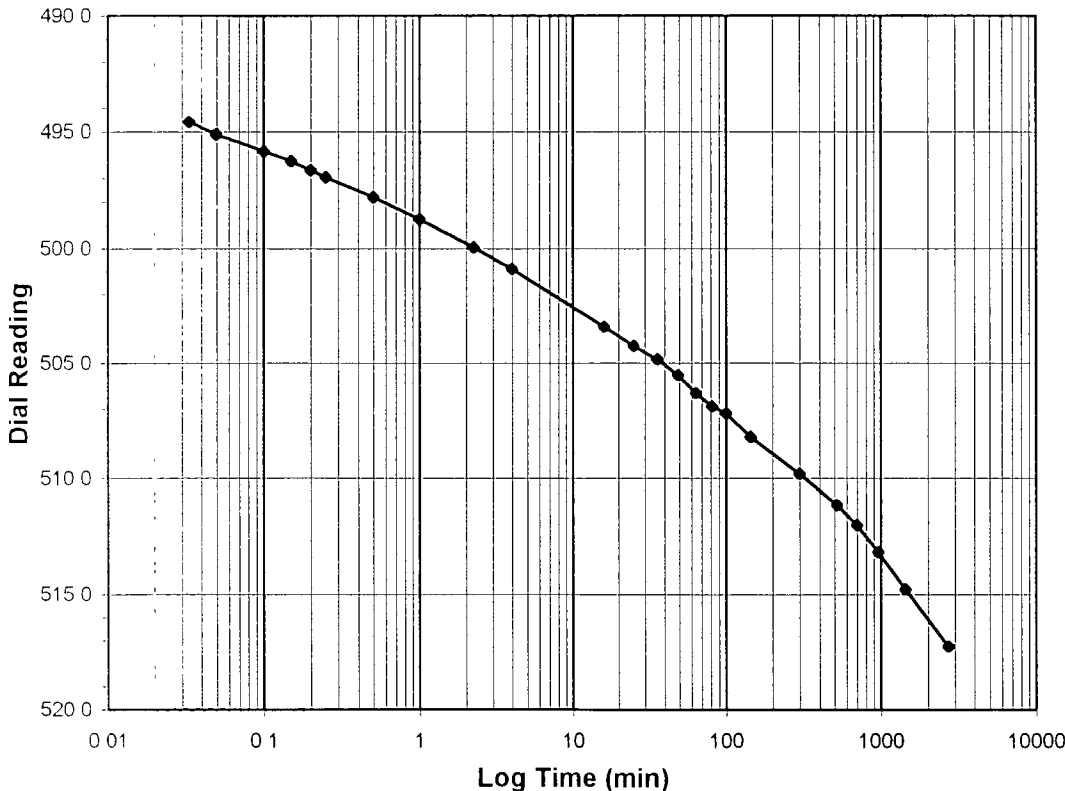
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	2.0-4.0
Final Reading (div)	517.3
Consolidometer No.	3
1 Division (in)	0.0001

Start Date	1/7/05
Start Time	16:28:52

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<i>477.7</i>
0.03	494.6
0.05	495.1
0.10	495.8
0.15	496.2
0.20	496.6
0.25	496.9
0.50	497.8
1.00	498.7
2.25	499.9
4.00	500.9
16.00	503.4
25.00	504.3
36.00	504.8
49.00	505.5
64.00	506.3
81.00	506.9
100.00	507.2
144.00	508.2
300.00	509.8
520.00	511.2
700.00	512.0
960.00	513.2
1440.00	514.8
2725.00	517.3



Tested By *TM* Date *1/7/05* Checked By *BF* Date *1-14-05*

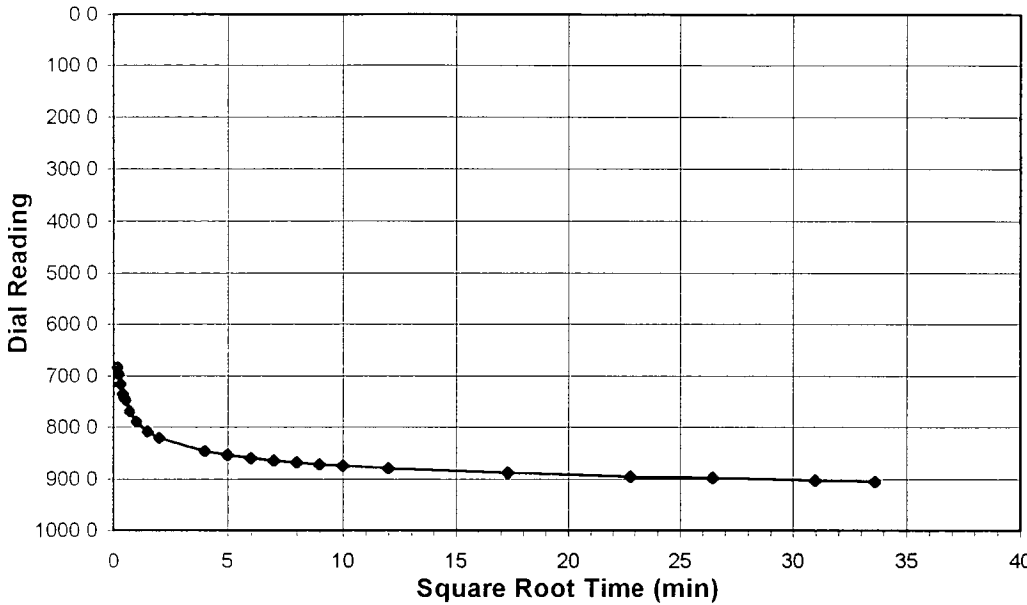


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

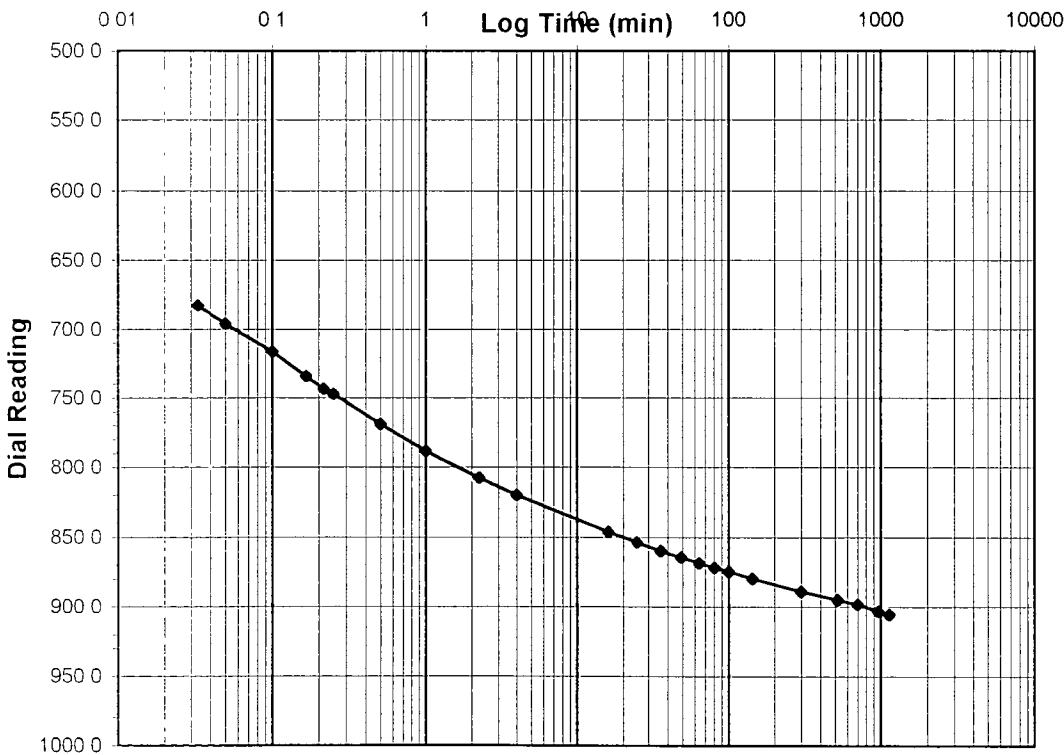
Client	BLASLAND, BOUCK, & LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-04	Sample No.	SS54-R-POST S/T (BOTTOM)
Lab ID	2004-221-04-04	Visual Description	BROWN STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	4.0-8.0
Final Reading (div)	905.6
Consolidometer No.	3
1 Division (in)	0.0001
Start Date	1/9/05
Start Time	14:15:57

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>517.3</b>
0.03	682.7
0.05	696.0
0.10	716.2
0.17	734.5
0.22	743.7
0.25	747.5
0.50	768.8
1.00	788.1
2.25	807.8
4.00	820.3
16.00	846.3
25.00	853.9
36.00	859.8
49.00	864.5
64.00	868.5
81.00	871.9
100.00	874.7
144.00	879.7
300.00	888.8
520.02	895.0
700.00	898.1
960.00	902.9
1130.00	905.6



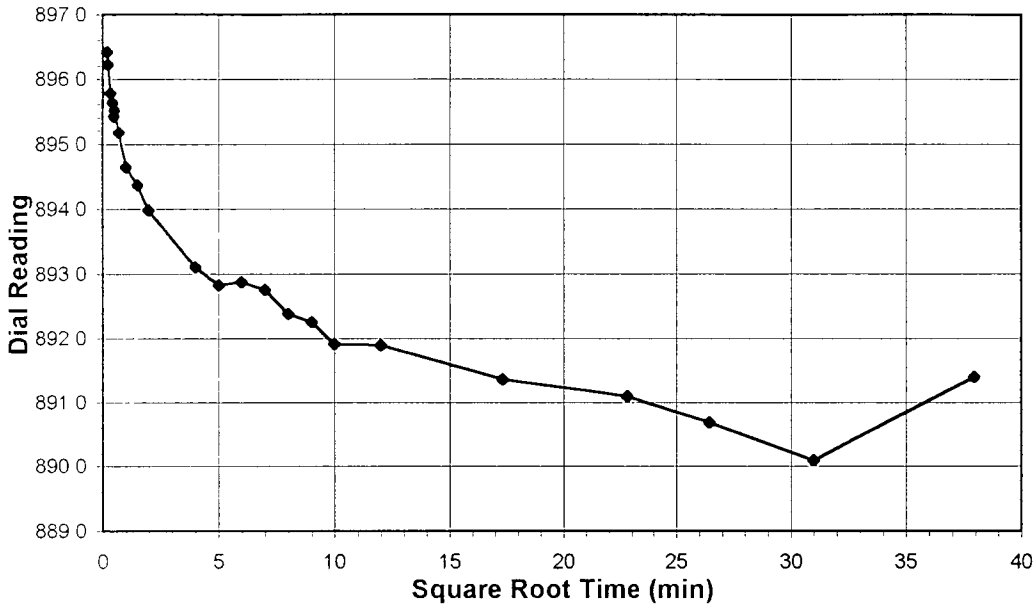
Tested By *TM* Date *1/9/05* Checked By *BF* Date *1-14-05*



**ONE DIMENSIONAL CONSOLIDATION**  
ASTM D 2435-96 (SOP-S24A)

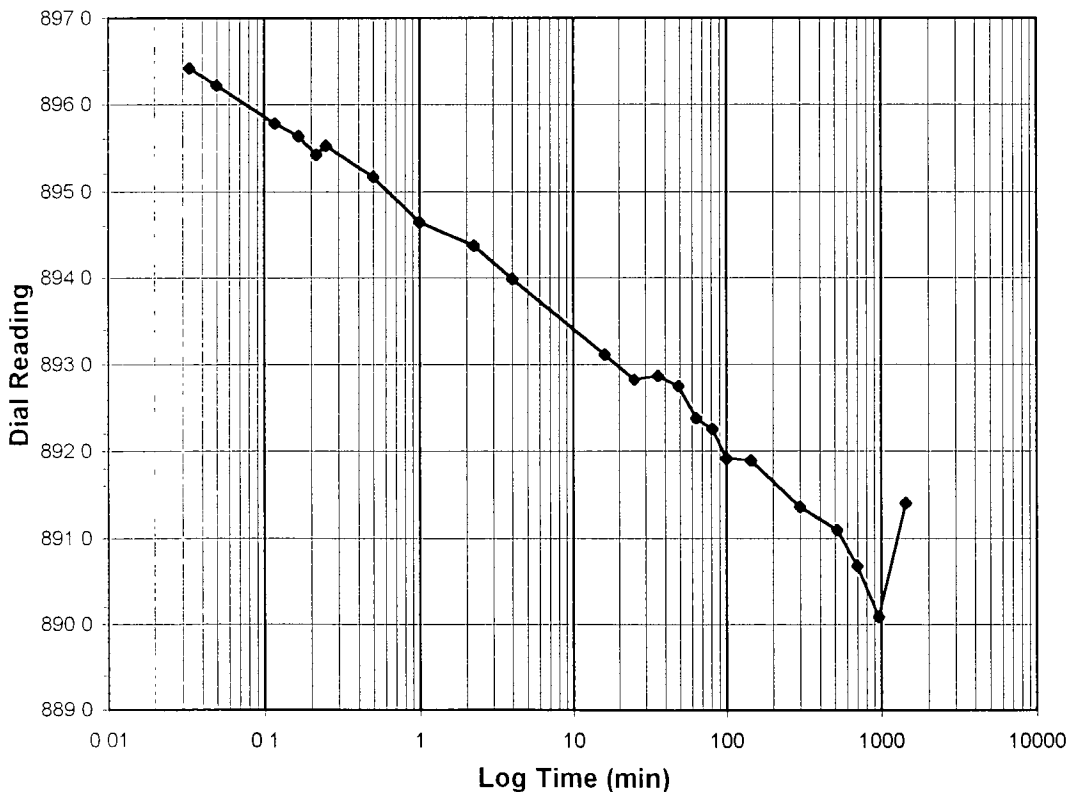
Client	BLASLAND, BOUCK, & LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-04	Sample No.	SS54-R-POST S/T (BOTTOM)
Lab ID	2004-221-04-04	Visual Description	BROWN STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



<b>Test Load</b> (tsf)	<b>8.0-4.0</b>
<b>Final Reading</b> (div)	<b>890.1</b>
Consolidometer No.	3
1 Division (in)	0.0001
Start Date	1/10/05
Start Time	9:35:20

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>905.6</b>
0.03	896.4
0.05	896.2
0.12	895.8
0.17	895.6
0.22	895.4
0.25	895.5
0.50	895.2
1.00	894.6
2.25	894.4
4.00	894.0
16.00	893.1
25.00	892.8
36.00	892.9
49.00	892.8
64.00	892.4
81.00	892.3
100.00	891.9
144.00	891.9
300.00	891.4
520.00	891.1
700.00	890.7
960.02	890.1
1440.00	891.4



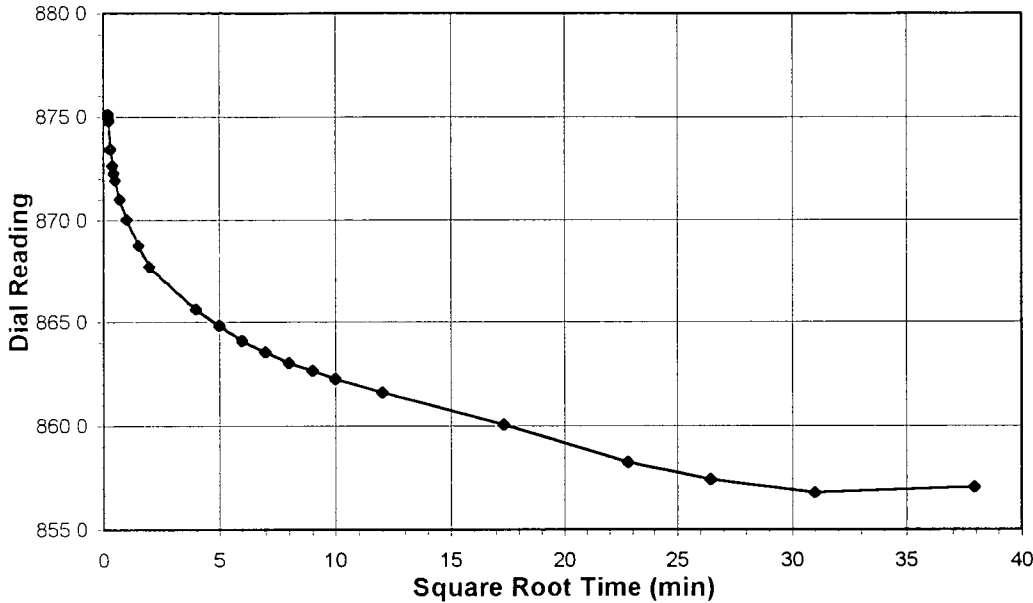
Tested By *TM* Date *1/10/05* Checked By *BF* Date *1-14-05*

# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

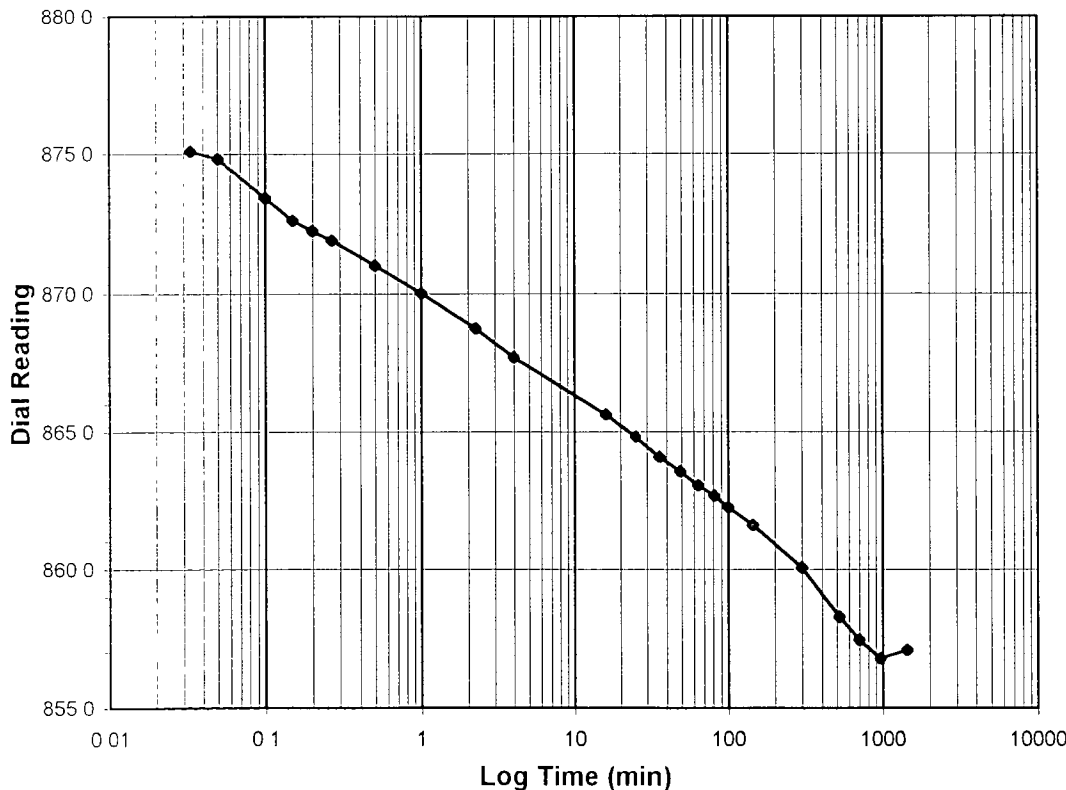
Client	BLASLAND, BOUCK, & LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-04	Sample No.	SS54-R-POST S/T (BOTTOM)
Lab ID	2004-221-04-04	Visual Description	BROWN STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



<b>Test Load</b> (tsf)	<b>4.0-1.0</b>
<b>Final Reading</b> (div)	<b>856.8</b>
Consolidometer No.	3
1 Division (in)	0.0001
<b>Start Date</b>	<b>1/11/05</b>
<b>Start Time</b>	<b>10:09:17</b>

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>891.4</b>
0.03	875.1
0.05	874.8
0.10	873.4
0.15	872.6
0.20	872.3
0.27	871.9
0.50	871.0
1.00	870.0
2.25	868.8
4.00	867.7
16.00	865.6
25.00	864.8
36.00	864.1
49.00	863.5
64.00	863.0
81.00	862.7
100.00	862.3
144.00	861.6
300.00	860.1
520.00	858.3
700.00	857.4
960.00	856.8
1440.00	857.1



Tested By *TM* Date *1/11/05* Checked By *BF* Date *1-14-05*

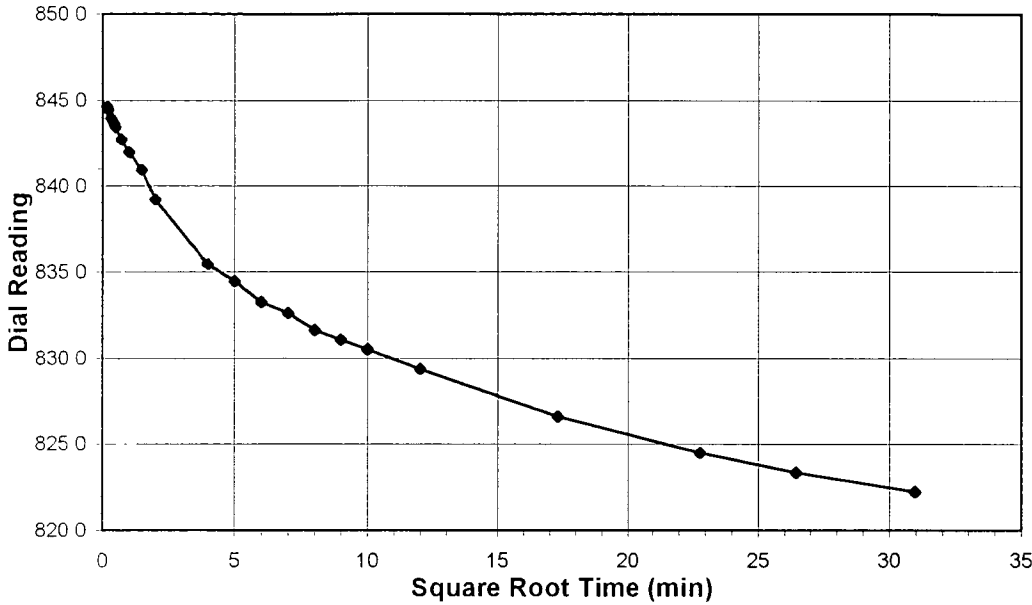


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-04	Sample No.	SS54-R-POST S/T (BOTTOM)
Lab ID	2004-221-04-04	Visual Description	BROWN STABILIZED MATERIAL

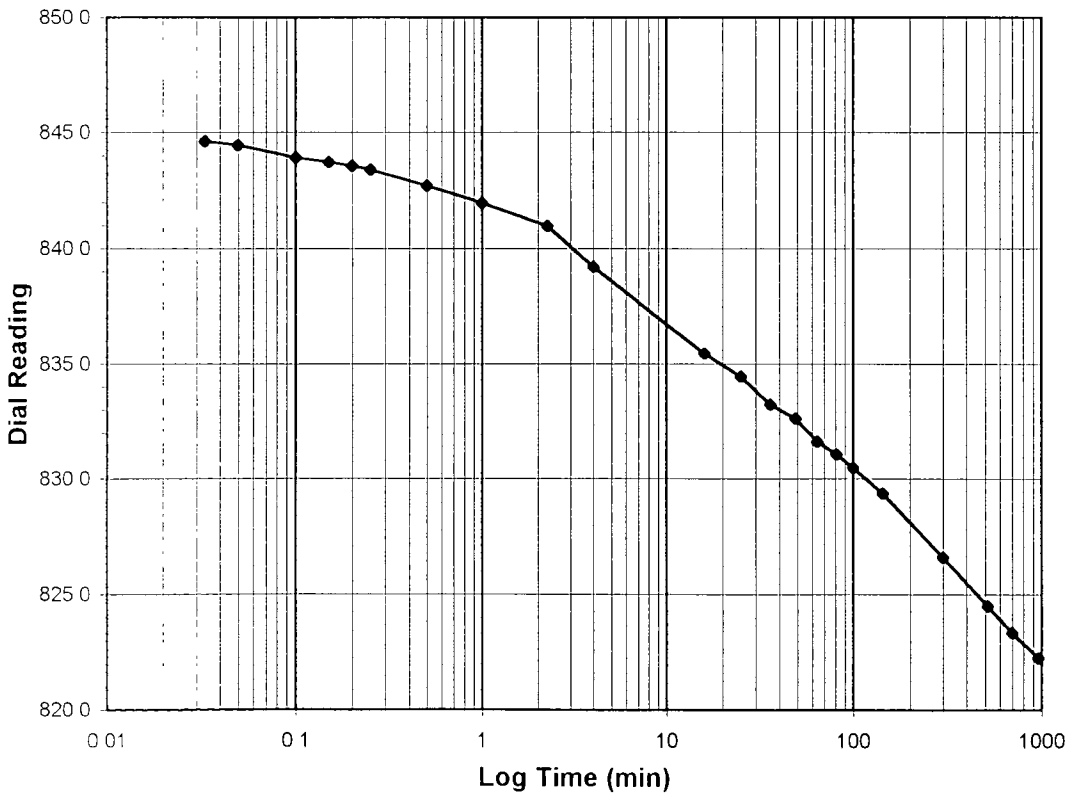
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	1.0-.25
Final Reading (div)	822.3
Consolidometer No.	3
1 Division (in)	0.0001

Start Date	1/12/05
Start Time	11:13:55

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>857.1</b>
0.03	844.6
0.05	844.5
0.10	843.9
0.15	843.7
0.20	843.6
0.25	843.4
0.50	842.7
1.00	842.0
2.25	841.0
4.00	839.2
16.00	835.5
25.00	834.4
36.00	833.2
49.00	832.6
64.00	831.6
81.00	831.1
100.00	830.5
144.00	829.4
300.00	826.6
520.00	824.5
700.02	823.3
960.00	822.3



Tested By *TM* Date *1/12/05* Checked By *BF* Date *1-14-05*

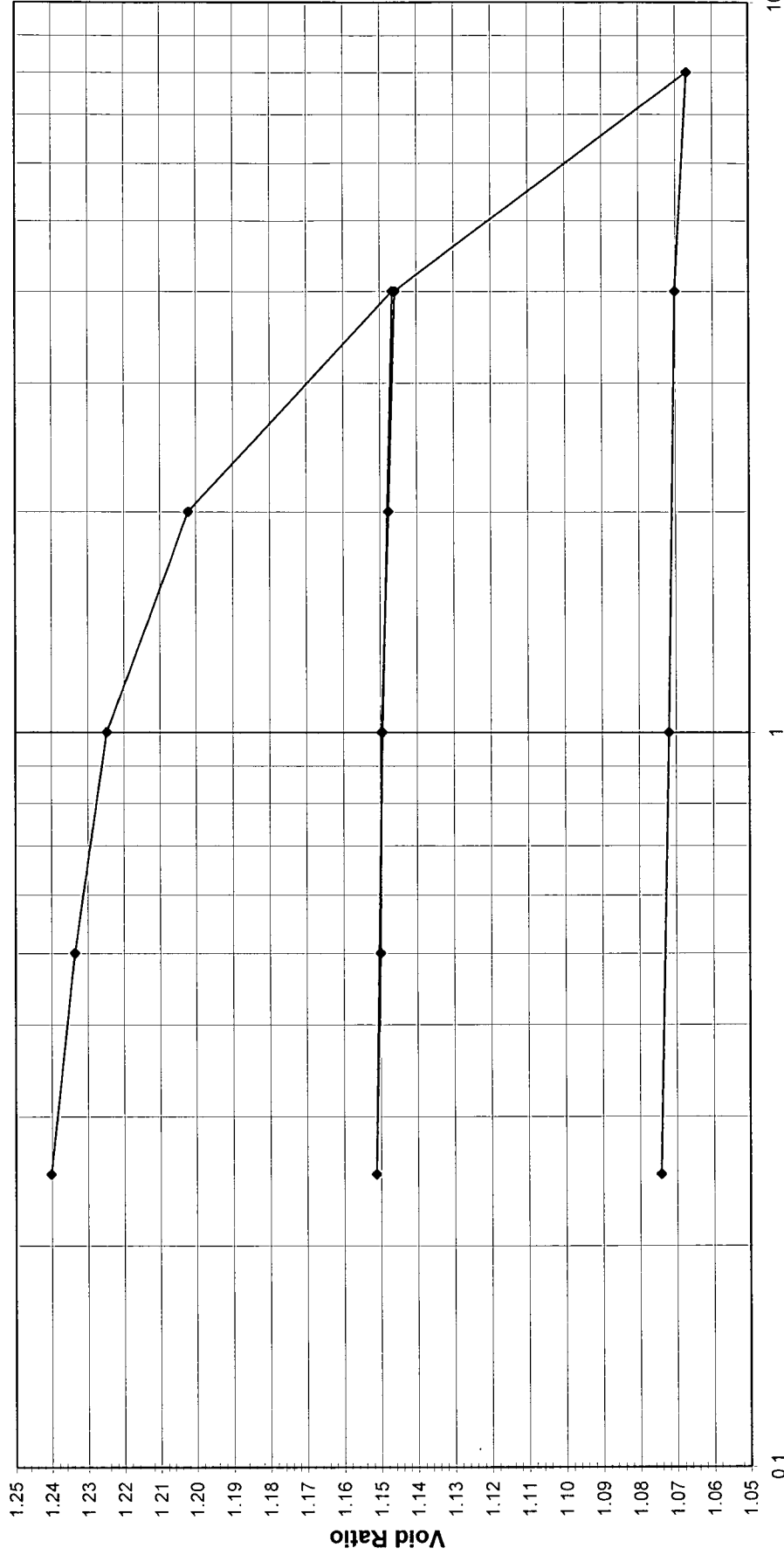


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 / AASHTO T216-03 (SOP-S24)

Client	BLASLAND, BOUCK, AND LEE	Boring No.	9/22/04
Client Reference	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-04	Sample No.	SS55-R-POST S/T
Lab ID	2004-221-04-05	Visual Description	GRAYISH BROWN STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Tested By TM Date 11/30/04 Approved By DB Date 12/23/04



# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 / AASHTO T216-03 (SOP-S24)

Client: BLASLAND, BOUCK, AND LEE  
 Client Reference: GEHR TREATABILITY 204.302  
 Project No.: 2004-221-04  
 Lab ID: 2004-221-04-05

Boring No.: 9/22/04  
 Depth (ft): NA  
 Sample No.: SS55-R-POST S/T  
 Visual Description: GRAYISH BROWN STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED

**Consolidometer No.:** 4

**1 Division =** 0.0001 (in)

## Sample Properties

	Initial	Final
<i>Water Content</i>		
Tare Number	01	444
Wt. Tare & WS (gm)	150.42	196.41
Wt. Tare & DS (gm)	123.71	170.69
Wt. Water (gm)	26.71	25.72
Wt. Tare (gm)	51.21	99.83
Wt. DS (gm)	72.50	70.86
Water Content (%)	36.84	36.30

## Sample Parameters

Sample Diameter (in)	2.5	2.5
Sample Height (in)	0.75	0.693
Sample Volume (cc)	60.33	55.71
Wt. Wet Sample + Ring (gm)	176.98	176.59
Wt. of Ring (gm)	77.75	77.75
Wt. of Wet Sample (gm)	99.23	98.84
Wet Density (pcf)	102.63	110.70
Wet Density (g/cc)	1.64	1.77
Water Content (%)	36.84	36.30
Wt. of Dry Sample (gm)	72.51	72.51
Dry Density (pcf)	75.00	81.22
Dry Density (g/cc)	1.20	1.30
Void Ratio	1.2463	1.0743
Saturation (%)	79.81	91.22
Specific Gravity	2.70	Assumed

## Test Data Summary

Applied Pressure (tsf)	Final Reading (div)	Machine Deflection (div)	Corrected Reading (div)	Height of Sample (mm)	Volume (cc)	Dry Density (g/cc)	Void Ratio
Seating	0	0	0	19.050	60.330	1.20197	1.24631
0.25	27.2	6.6	20.6	18.998	60.164	1.20528	1.24014
0.5	54.2	11.7	42.5	18.942	59.988	1.20882	1.23359
1	90.6	18.5	72.1	18.867	59.750	1.21364	1.22472
2	176.4	28.5	147.9	18.674	59.140	1.22615	1.20202
4	374.2	41.2	333.0	18.204	57.651	1.25782	1.14658
1	354.3	30.8	323.5	18.228	57.728	1.25615	1.14942
0.25	331.9	14.6	317.3	18.244	57.778	1.25507	1.15128
0.5	336.2	14.5	321.7	18.233	57.742	1.25584	1.14996
1	344.5	21.6	322.9	18.230	57.732	1.25605	1.14960
2	358.6	29.4	329.2	18.214	57.682	1.25715	1.14772
4	377.0	41.6	335.4	18.198	57.632	1.25824	1.14586
8	652.2	53.3	598.9	17.529	55.512	1.30628	1.06694
4	639.3	51.3	588.0	17.556	55.600	1.30422	1.07020
1	618.8	36.7	582.1	17.571	55.647	1.30311	1.07197
0.25	594.0	19.7	574.3	17.591	55.710	1.30164	1.07431

Tested By: TM Date: 11/30/04 Input Checked By: ABL Date: 12/6/04



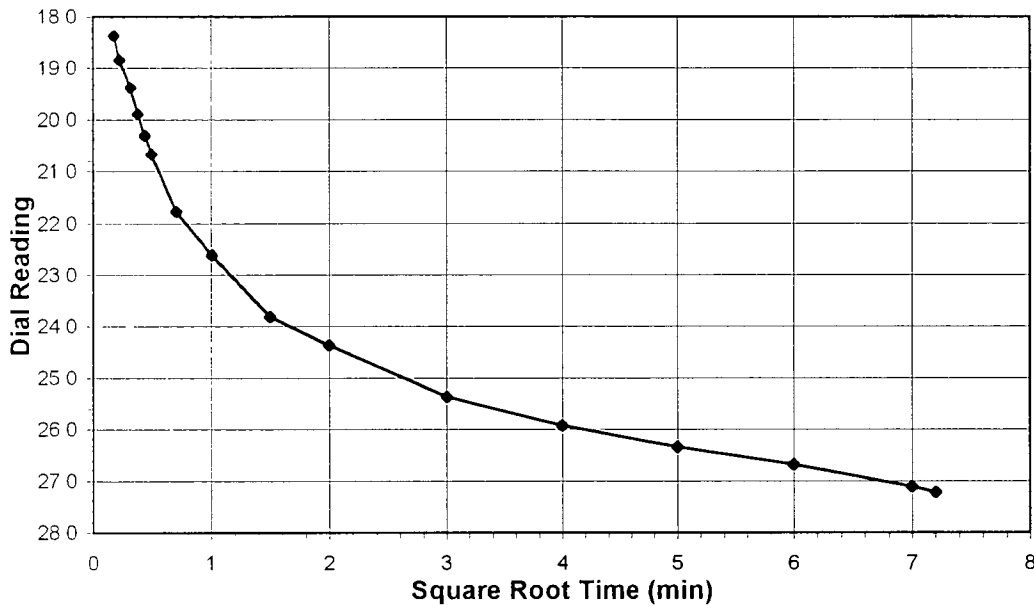


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, AND LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-04	Sample No.	SS55-R-POST S/T
Lab ID	2004-221-04-05	Visual Description	GRAYISH BROWN STABILIZED MATERIAL

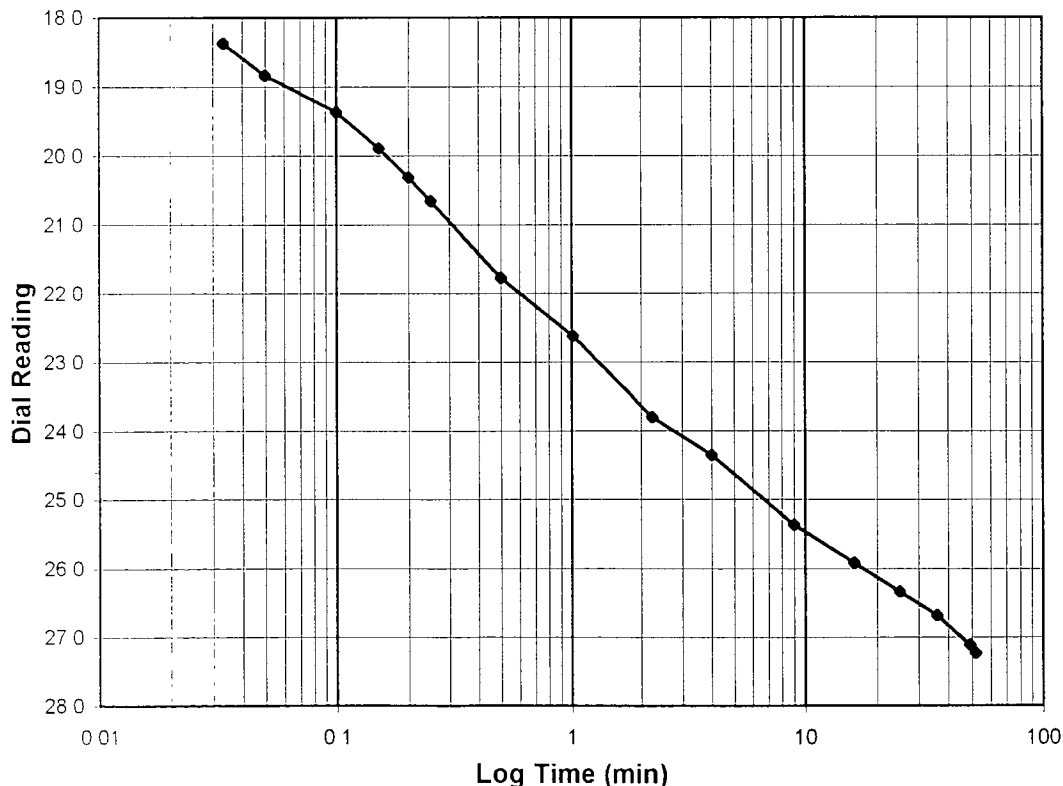
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 0-0.25  
 Final Reading (div) 27.2  
 Consolidometer No. 4  
 1 Division (in) 0.0001

Start Date 11/30/04  
 Start Time 14:01:16

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>0.0</b>
0.03	18.4
0.05	18.8
0.10	19.4
0.15	19.9
0.20	20.3
0.25	20.7
0.50	21.8
1.02	22.6
2.25	23.8
4.00	24.4
9.02	25.4
16.00	25.9
25.00	26.3
36.00	26.7
49.00	27.1
51.88	27.2



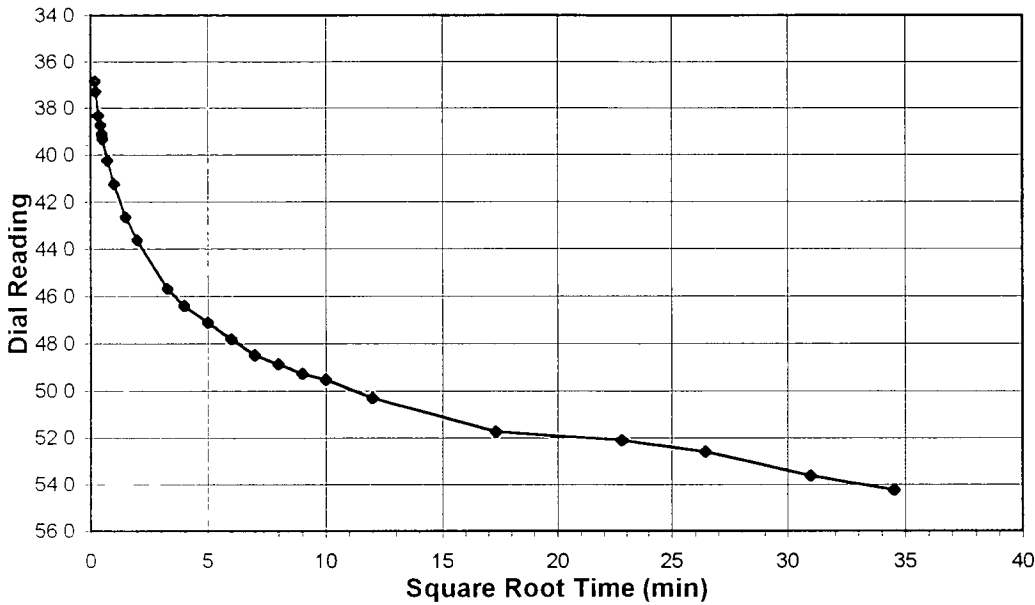
Tested By TM Date 11/30/04 Checked By BF Date 12-29-04



**ONE DIMENSIONAL CONSOLIDATION**  
ASTM D 2435-96 (SOP-S24A)

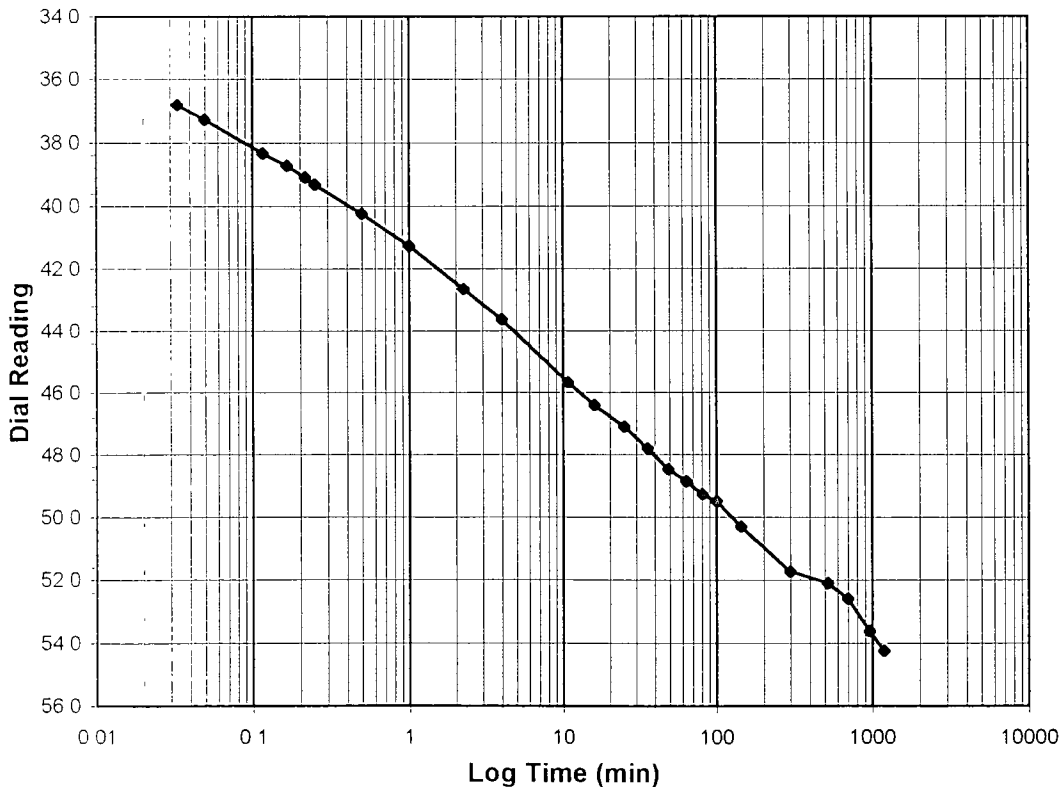
Client	BLASLAND, BOUCK, AND LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-04	Sample No.	SS55-R-POST S/T
Lab ID	2004-221-04-05	Visual Description	GRAYISH BROWN STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.25-0.5
Final Reading (div)	54.2
Consolidometer No.	4
1 Division (in)	0.0001
Start Date	11/30/04
Start Time	14:55:40

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>27.2</b>
0.03	36.8
0.05	37.3
0.12	38.3
0.17	38.7
0.22	39.1
0.25	39.3
0.50	40.2
1.00	41.3
2.25	42.6
4.00	43.6
10.80	45.7
16.00	46.4
25.00	47.1
36.00	47.8
49.00	48.5
64.00	48.9
81.00	49.3
100.00	49.5
144.00	50.3
300.00	51.7
520.00	52.1
700.00	52.6
960.00	53.6
1191.90	54.2



Tested By *TM* Date *11/30/04* Checked By *BF* Date *12-29-04*

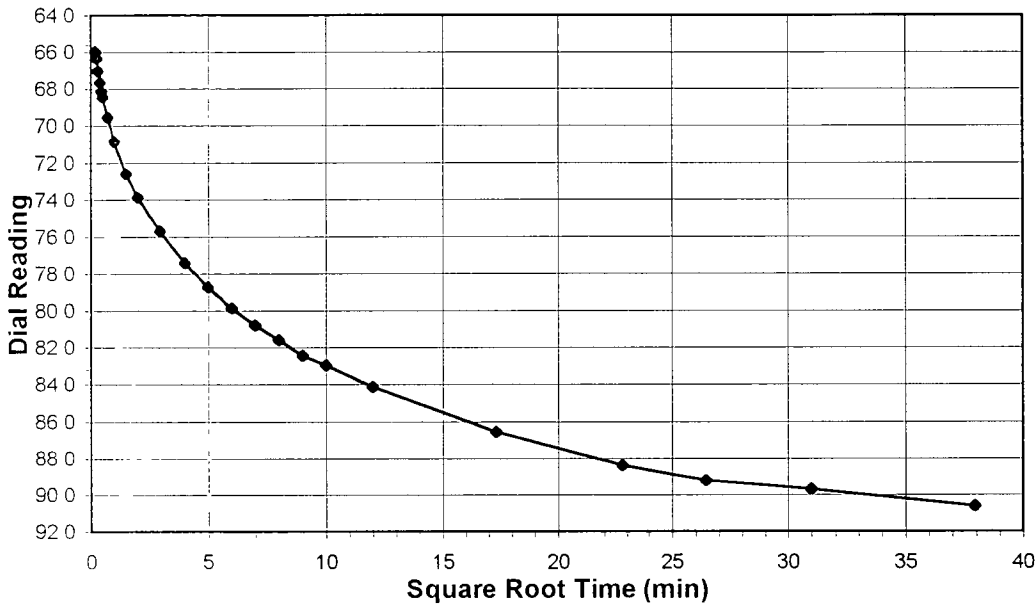


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, AND LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-04	Sample No.	SS55-R-POST S/T
Lab ID	2004-221-04-05	Visual Description	GRAYISH BROWN STABILIZED MATERIAL

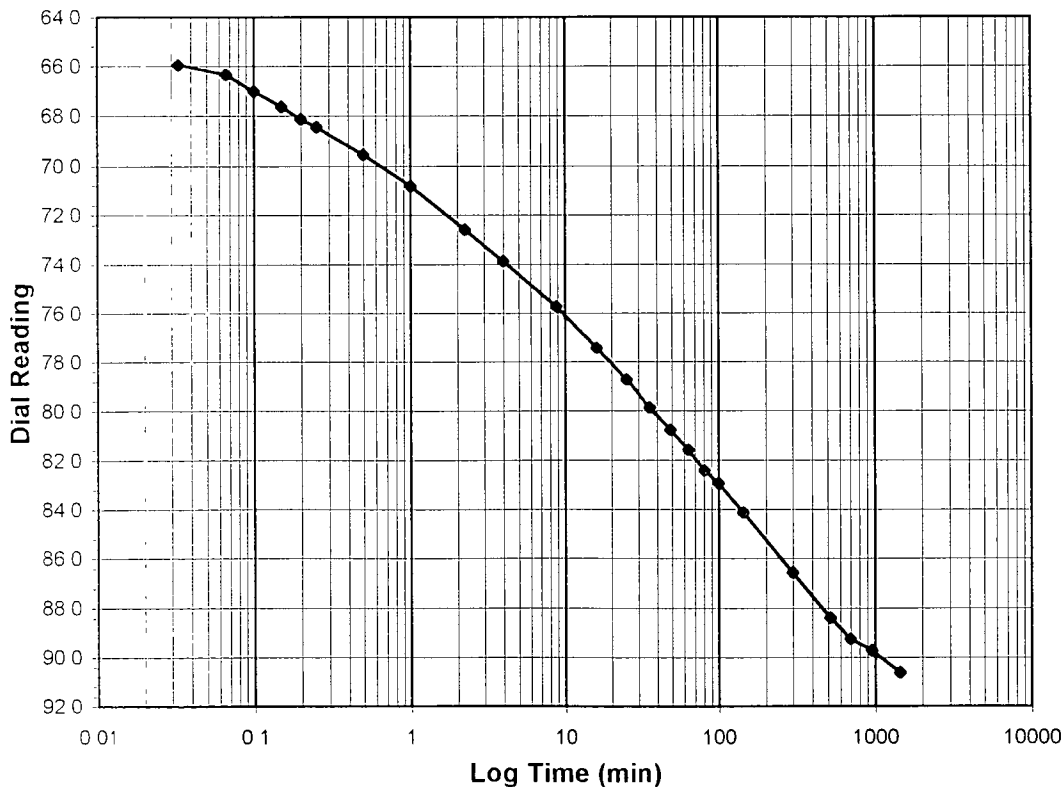
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



<b>Test Load</b>	(tsf)	<b>0.5-1.0</b>
<b>Final Reading</b>	(div)	<b>90.6</b>
Consolidometer No.		4
1 Division	(in)	0.0001

Start Date	12/1/04
Start Time	10:51:12

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>54.2</b>
0.03	66.0
0.07	66.3
0.10	67.0
0.15	67.6
0.20	68.1
0.25	68.5
0.50	69.6
1.00	70.8
2.25	72.6
4.00	73.9
8.78	75.7
16.00	77.4
25.00	78.7
36.00	79.9
49.00	80.8
64.00	81.6
81.00	82.4
100.00	83.0
144.00	84.1
300.00	86.6
520.00	88.4
700.00	89.2
960.00	89.7
1440.00	90.6



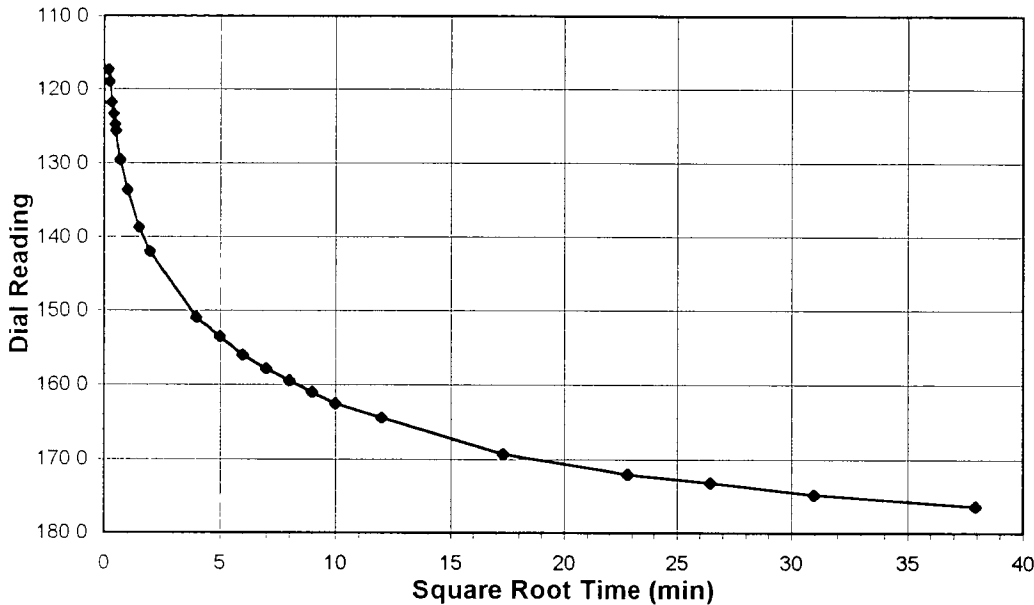
Tested By *TM* Date *12/1/04* Checked By *BF* Date *12-29-04*



**ONE DIMENSIONAL CONSOLIDATION**  
ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, AND LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-04	Sample No.	SS55-R-POST S/T
Lab ID	2004-221-04-05	Visual Description	GRAYISH BROWN STABILIZED MATERIAL

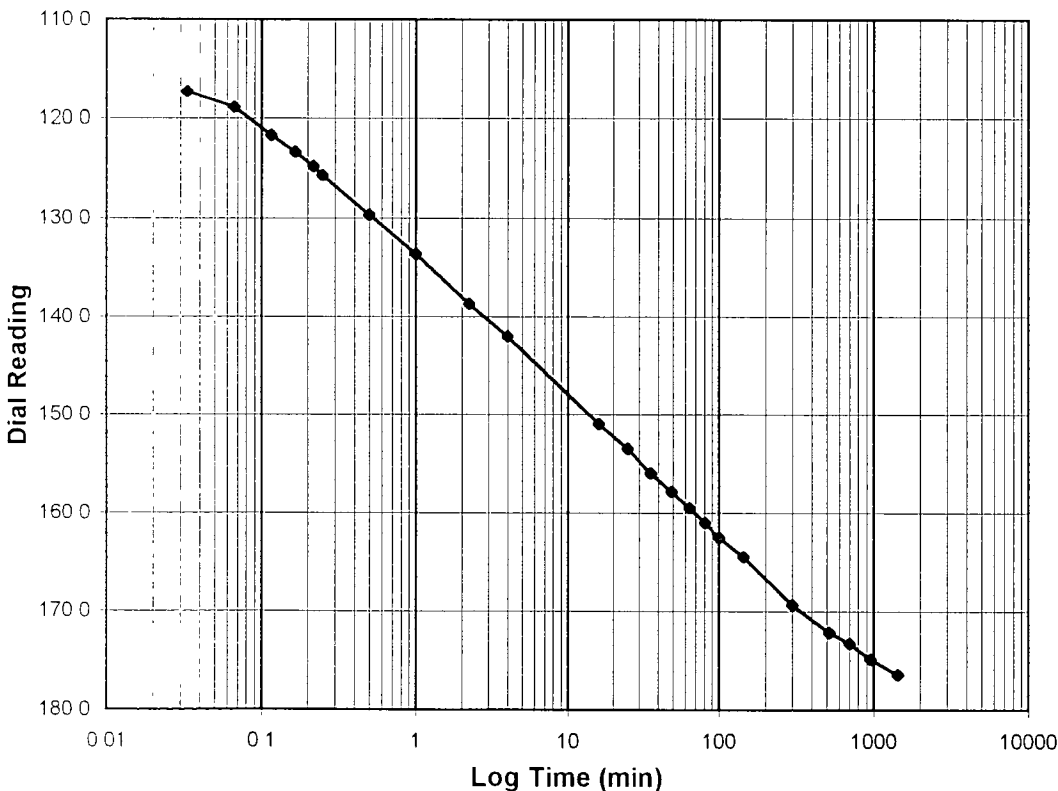
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



**Test Load (tsf)** 1.0-2.0  
**Final Reading (div)** 176.4  
 Consolidometer No. 4  
 1 Division (in) 0.0001

**Start Date** 12/2/04  
**Start Time** 11:41:14

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>90.6</b>
0.03	117.3
0.07	118.9
0.12	121.7
0.17	123.3
0.22	124.8
0.25	125.7
0.50	129.6
1.00	133.6
2.25	138.7
4.00	142.0
16.00	151.0
25.00	153.5
36.00	156.0
49.00	157.9
64.00	159.5
81.00	161.0
100.00	162.5
144.00	164.4
300.00	169.3
520.00	172.1
700.00	173.2
960.00	174.9
1440.00	176.4



Tested By *TM* Date *12/2/04* Checked By *BF* Date *12-29-04*

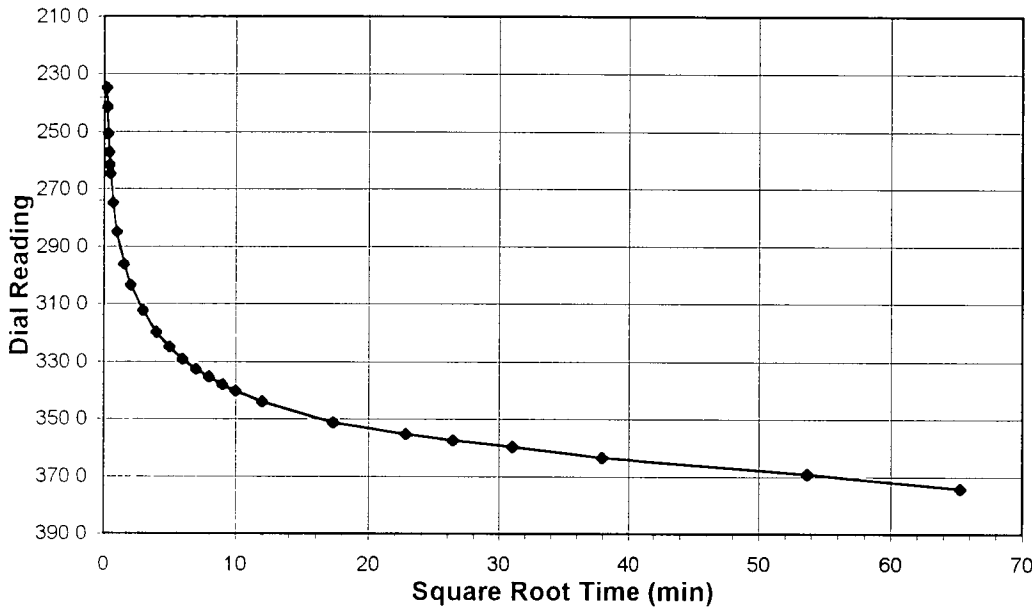


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, AND LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-04	Sample No.	SS55-R-POST S/T
Lab ID	2004-221-04-05	Visual Description	GRAYISH BROWN STABILIZED MATERIAL

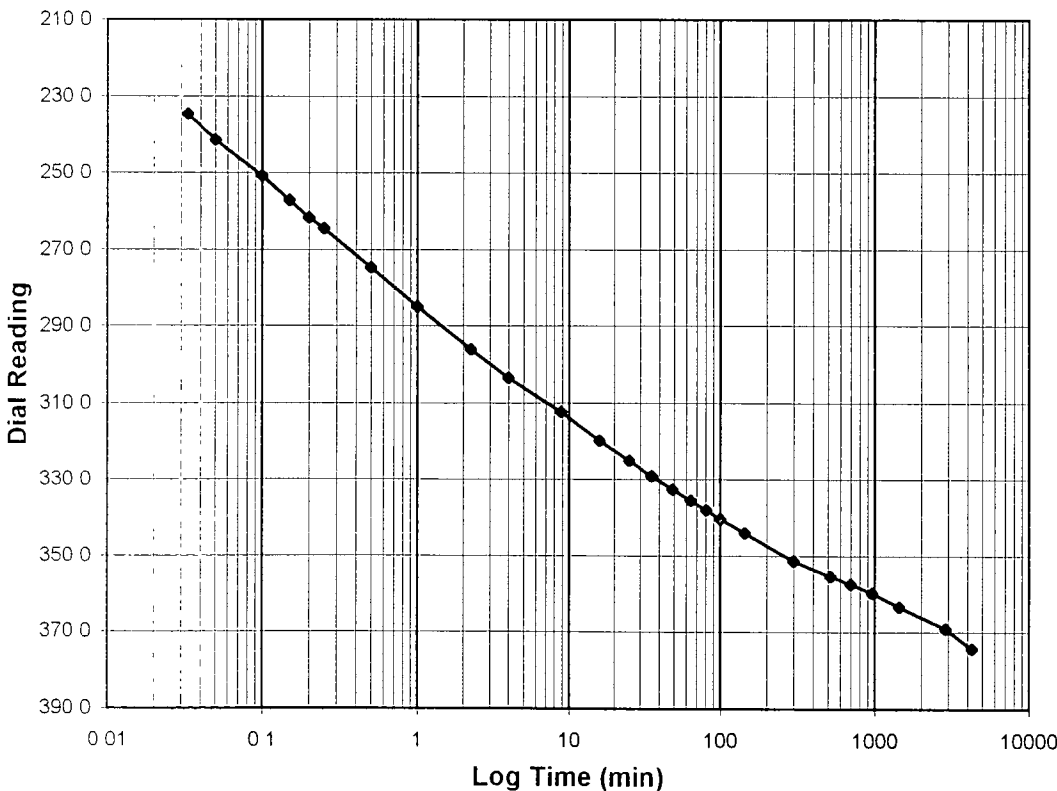
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



<b>Test Load</b>	(tsf)	<b>2.0-4.0</b>
<b>Final Reading</b>	(div)	<b>374.2</b>
Consolidometer No.		4
1 Division	(in)	0.0001

<b>Start Date</b>	12/3/04
<b>Start Time</b>	13:24:18

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>176.4</b>
0.03	234.7
0.05	241.4
0.10	250.7
0.15	257.2
0.20	261.6
0.25	264.5
0.50	274.7
1.00	285.0
2.25	296.2
4.00	303.6
8.88	312.4
16.00	320.0
25.00	325.1
36.00	329.2
49.00	332.6
64.00	335.4
81.00	338.0
100.00	340.3
144.00	344.0
300.00	351.4
520.00	355.3
700.00	357.5
960.00	359.7
1440.00	363.4
2880.00	369.1
4261.78	374.2



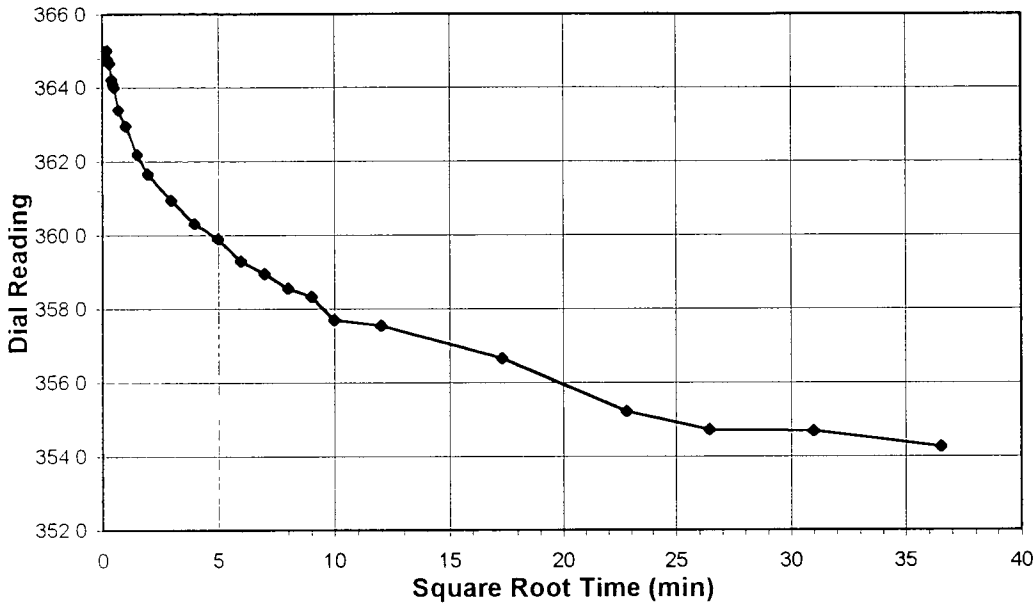
Tested By TM Date 12/3/04 Checked By BF Date 12-29-04



**ONE DIMENSIONAL CONSOLIDATION**  
ASTM D 2435-96 (SOP-S24A)

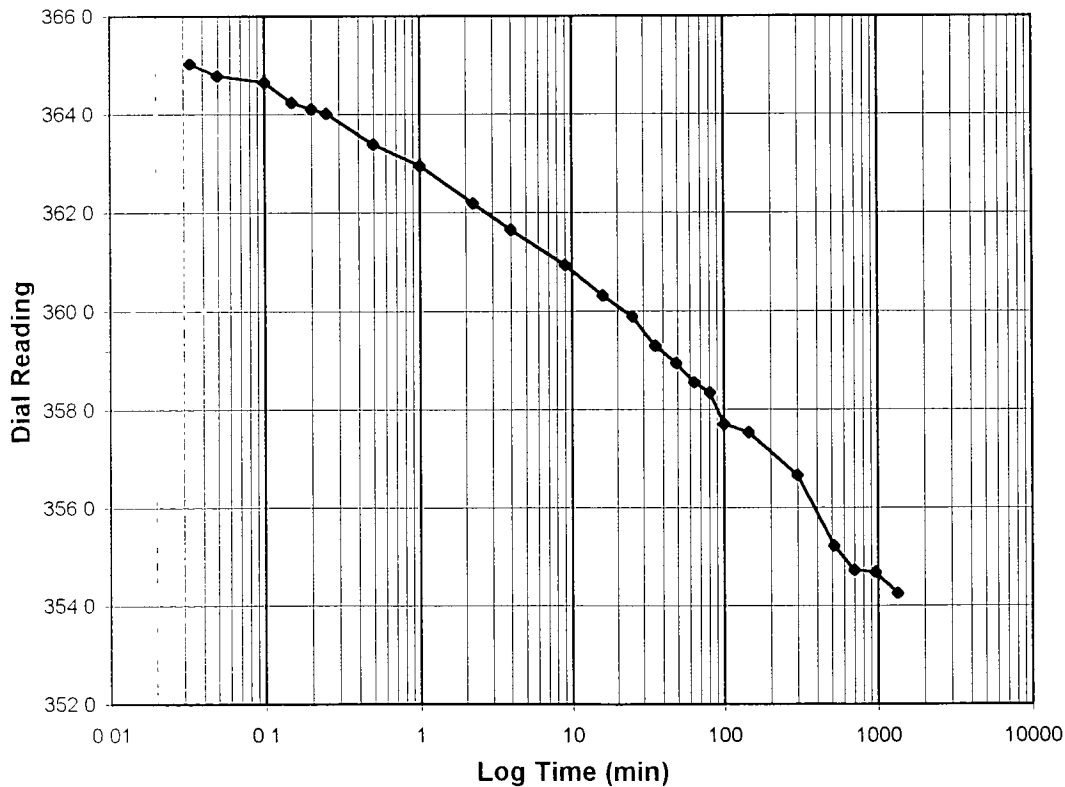
Client	BLASLAND, BOUCK, AND LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-04	Sample No.	SS55-R-POST S/T
Lab ID	2004-221-04-05	Visual Description	GRAYISH BROWN STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



<b>Test Load</b>	(tsf)	<b>4.0-1.0</b>
<b>Final Reading</b>	(div)	<b>354.3</b>
Consolidometer No.		4
1 Division	(in)	0.0001
Start Date		12/6/04
Start Time		12:39:56

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>374.2</b>
0.03	365.0
0.05	364.8
0.10	364.7
0.15	364.2
0.20	364.1
0.25	364.0
0.50	363.4
1.00	363.0
2.25	362.2
4.00	361.7
9.02	360.9
16.00	360.3
25.00	359.9
36.00	359.3
49.00	358.9
64.00	358.6
81.00	358.3
100.00	357.7
144.00	357.5
300.00	356.7
520.00	355.2
700.00	354.7
960.00	354.7
1334.08	354.3



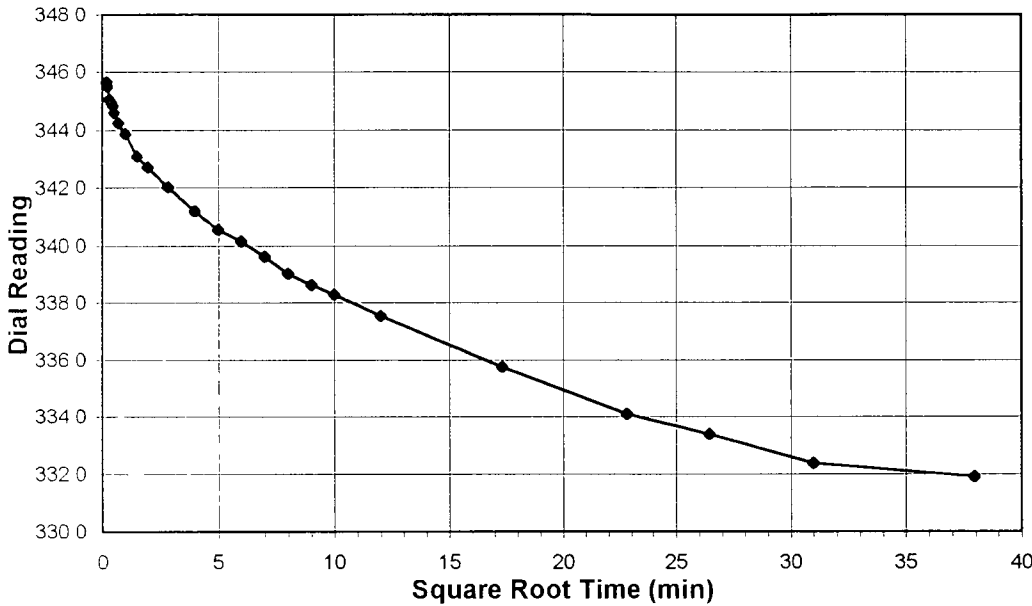
Tested By TM Date 12/6/04 Checked By BF Date 12-29-04



**ONE DIMENSIONAL CONSOLIDATION**  
ASTM D 2435-96 (SOP-S24A)

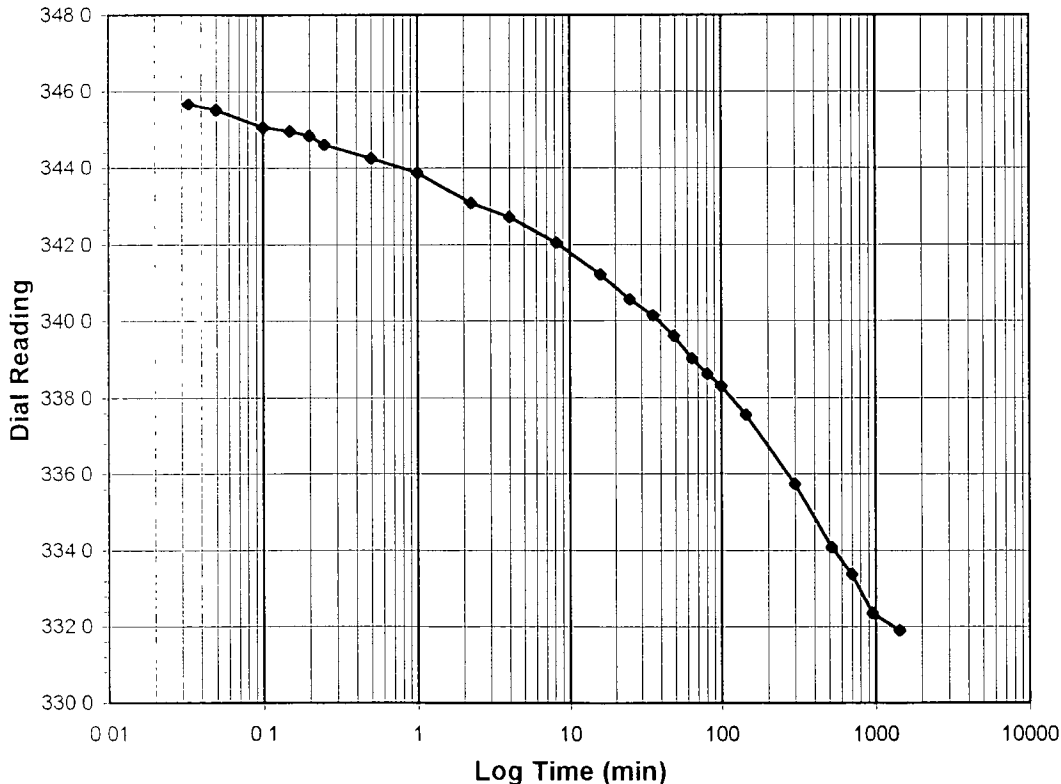
Client	BLASLAND, BOUCK, AND LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-04	Sample No.	SS55-R-POST S/T
Lab ID	2004-221-04-05	Visual Description	GRAYISH BROWN STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



<b>Test Load</b>	(tsf)	<b>1.0-0.25</b>
<b>Final Reading</b>	(div)	<b>331.9</b>
Consolidometer No.		4
1 Division	(in)	0.0001
Start Date		12/7/04
Start Time		10:56:48

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>354.3</b>
0.03	345.7
0.05	345.5
0.10	345.1
0.15	345.0
0.20	344.8
0.25	344.6
0.50	344.3
1.00	343.9
2.25	343.1
4.00	342.7
8.22	342.0
16.00	341.2
25.00	340.6
36.00	340.1
49.00	339.6
64.00	339.0
81.00	338.6
100.00	338.3
144.00	337.6
300.00	335.7
520.00	334.1
700.00	333.4
960.00	332.4
1440.00	331.9



Tested By *TM* Date *12/7/04* Checked By *BF* Date *12-29-04*

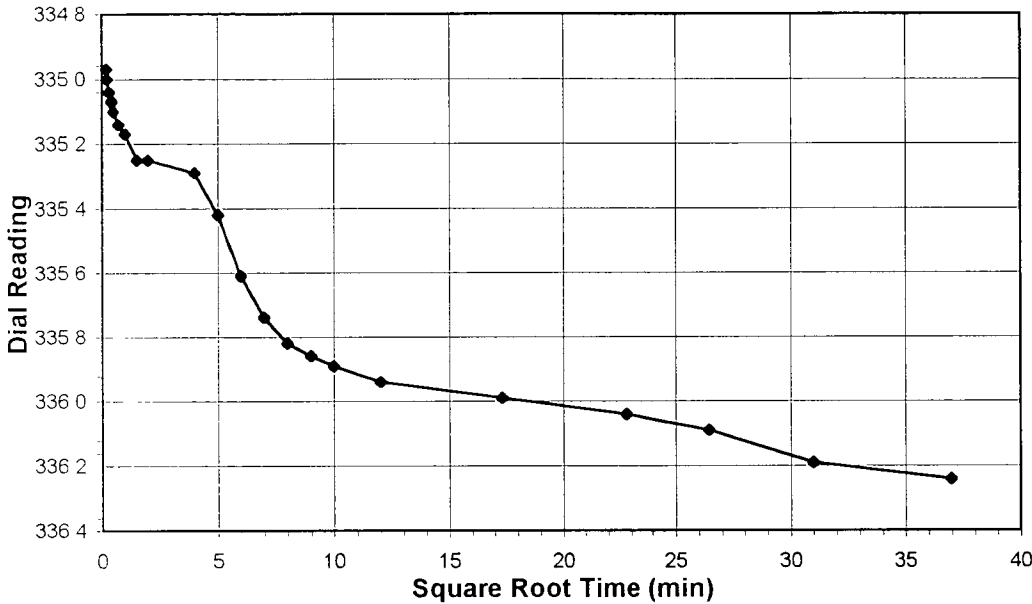


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

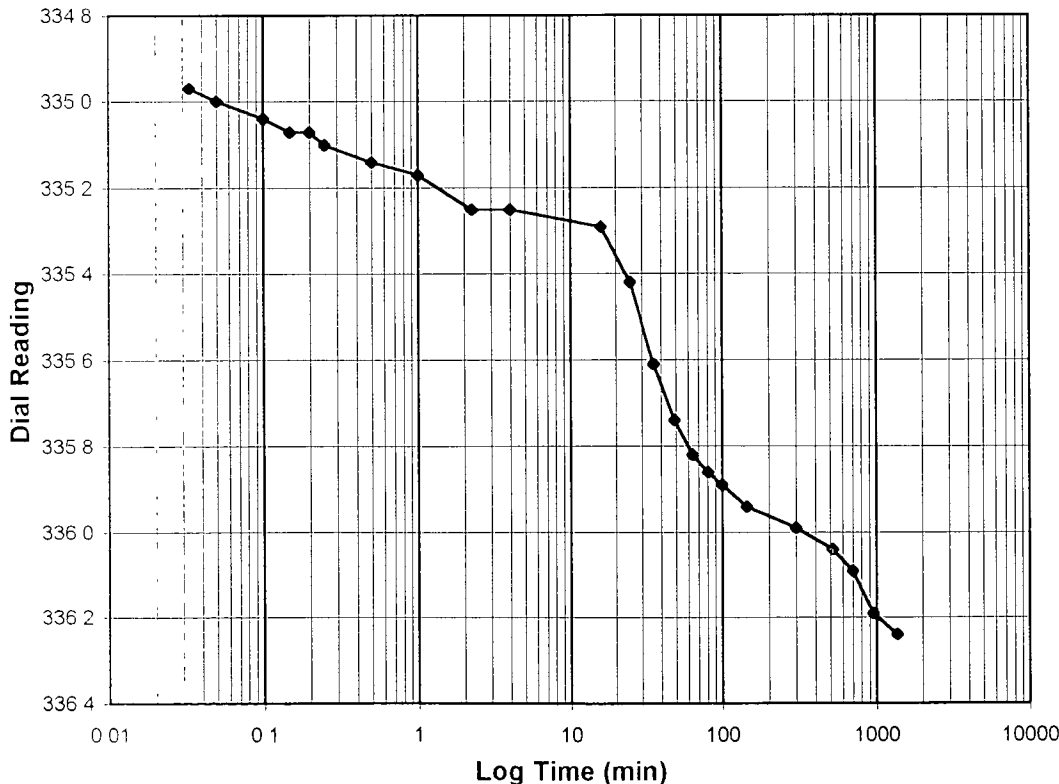
Client	BLASLAND, BOUCK, AND LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-04	Sample No.	SS55-R-POST S/T
Lab ID	2004-221-04-05	Visual Description	GRAYISH BROWN STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



**Test Load (tsf)** 0.25-0.5  
**Final Reading (div)** 336.2  
 Consolidometer No. 4  
 1 Division (in) 0.0001  
 Start Date 12/8/04  
 Start Time 11:05:43

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>331.9</b>
0.03	335.0
0.05	335.0
0.10	335.0
0.15	335.1
0.20	335.1
0.25	335.1
0.50	335.1
1.00	335.2
2.25	335.3
4.00	335.3
16.00	335.3
25.00	335.4
36.00	335.6
49.00	335.7
64.00	335.8
81.00	335.9
100.00	335.9
144.00	335.9
300.00	336.0
520.00	336.0
700.00	336.1
960.02	336.2
1366.40	336.2



Tested By *TM* Date *12/8/04* Checked By *BF* Date *12-29-04*

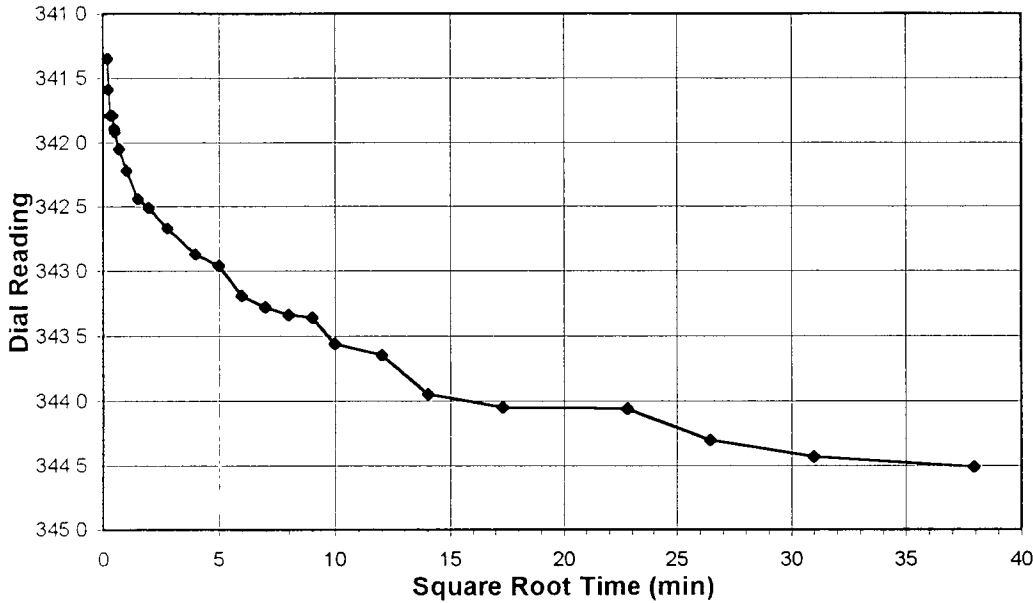




**ONE DIMENSIONAL CONSOLIDATION**  
ASTM D 2435-96 (SOP-S24A)

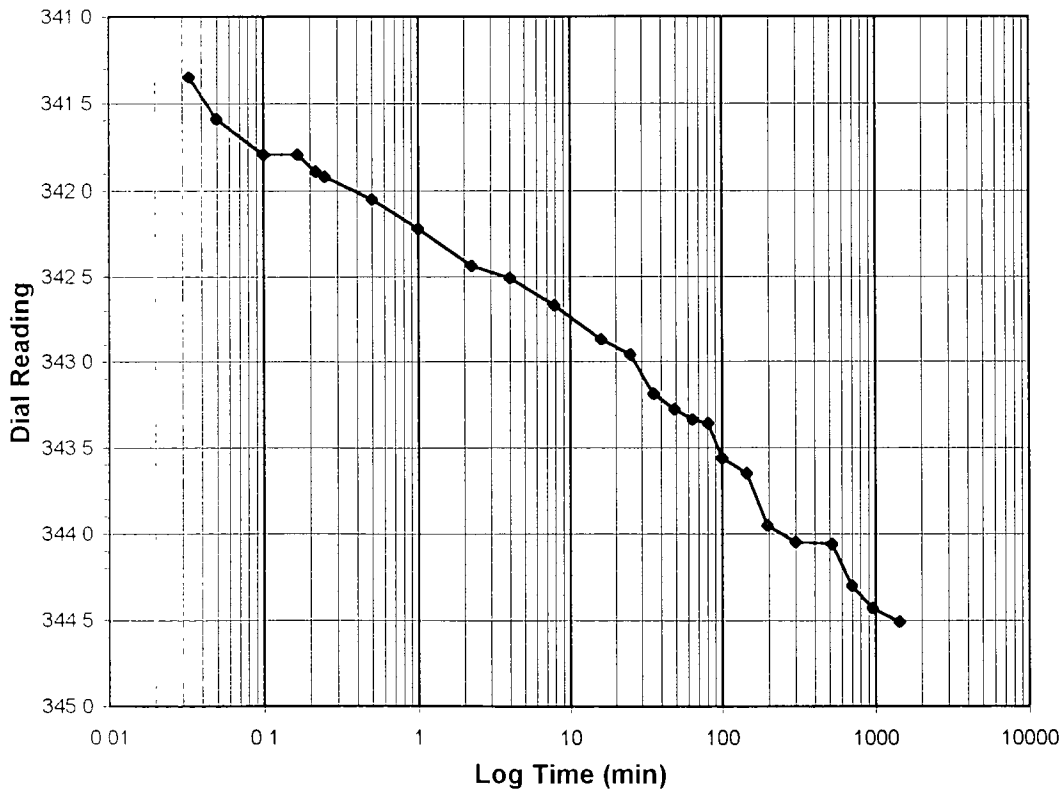
Client	BLASLAND, BOUCK, AND LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-04	Sample No.	SS55-R-POST S/T
Lab ID	2004-221-04-05	Visual Description	GRAYISH BROWN STABILIZED MATERIAL

**Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED**



<b>Test Load (tsf)</b>	<b>0.5-1.0</b>
<b>Final Reading (div)</b>	<b>344.5</b>
Consolidometer No.	4
1 Division (in)	0.0001
Start Date	12/9/04
Start Time	9:58:14

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>336.2</b>
0.03	341.4
0.05	341.6
0.10	341.8
0.17	341.8
0.22	341.9
0.25	341.9
0.50	342.1
1.00	342.2
2.25	342.4
4.00	342.5
7.89	342.7
16.00	342.9
25.00	343.0
36.00	343.2
49.00	343.3
64.00	343.3
81.00	343.4
100.00	343.6
144.00	343.7
196.67	344.0
300.00	344.1
520.00	344.1
700.00	344.3
960.00	344.4
1440.00	344.5



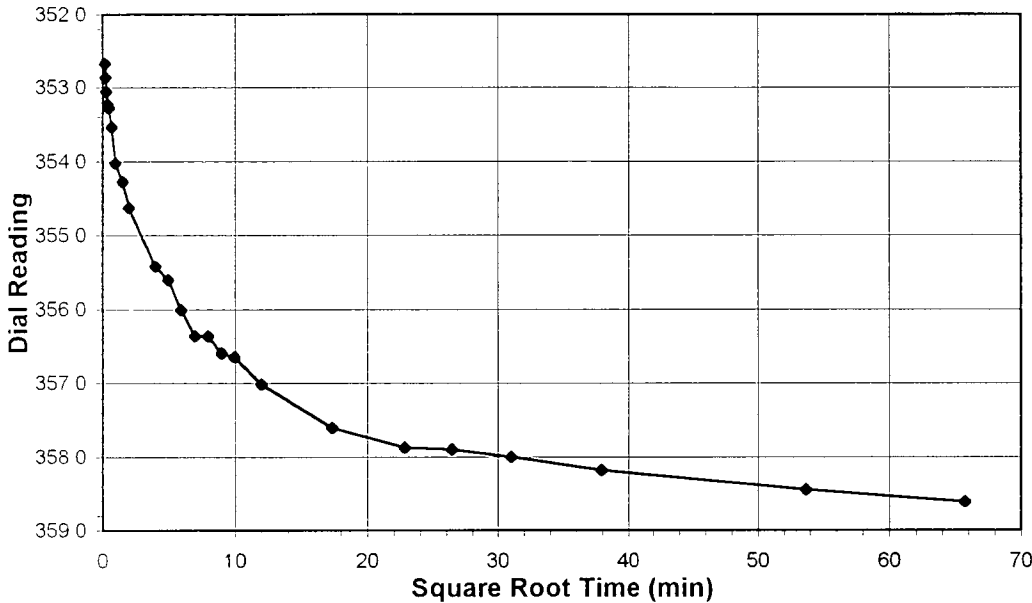
Tested By TM Date 12/9/04 Checked By BF Date 12-29-04



**ONE DIMENSIONAL CONSOLIDATION**  
ASTM D 2435-96 (SOP-S24A)

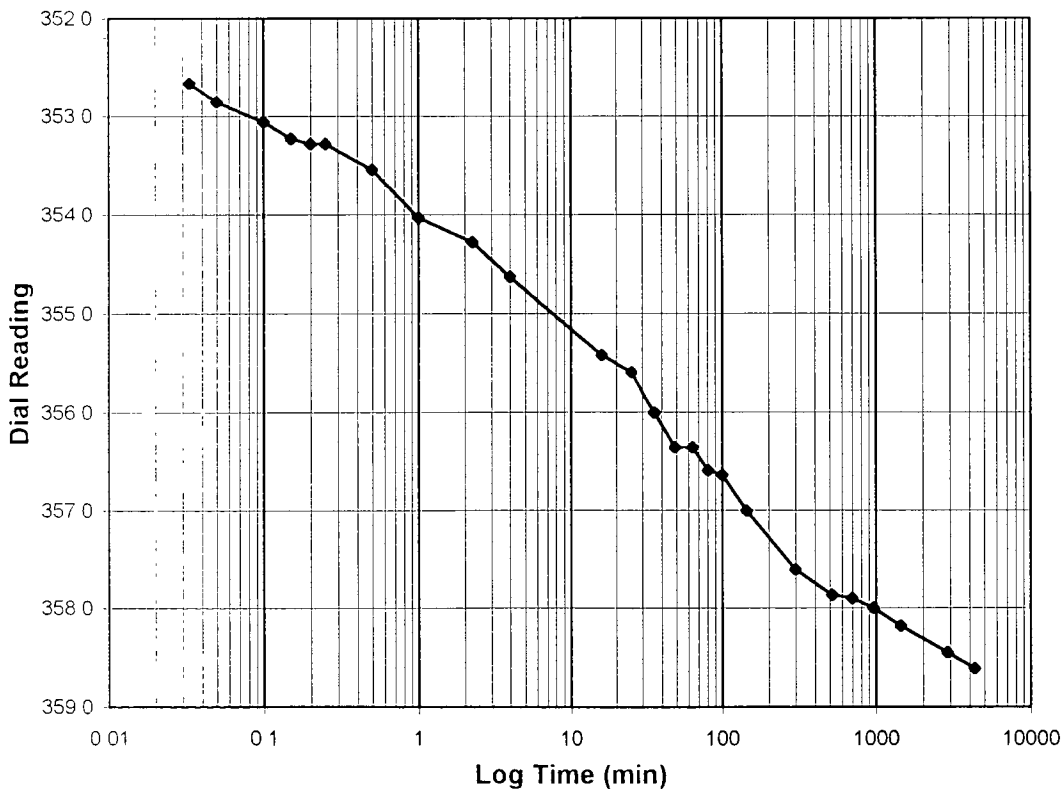
Client	BLASLAND, BOUCK, AND LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-04	Sample No.	SS55-R-POST S/T
Lab ID	2004-221-04-05	Visual Description	GRAYISH BROWN STABILIZED MATERIAL

**Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED**



<b>Test Load (tsf)</b>	<b>1.0-2.0</b>
<b>Final Reading (div)</b>	<b>358.6</b>
Consolidometer No.	4
1 Division (in)	0.0001
Start Date	12/10/04
Start Time	11:02.15

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>344.5</b>
0.03	352.7
0.05	352.9
0.10	353.1
0.15	353.2
0.20	353.3
0.25	353.3
0.50	353.5
1.00	354.0
2.25	354.3
4.00	354.6
16.00	355.4
25.00	355.6
36.00	356.0
49.00	356.4
64.00	356.4
81.00	356.6
100.00	356.6
144.00	357.0
300.00	357.6
520.00	357.9
700.00	357.9
960.00	358.0
1440.00	358.2
2880.00	358.5
4322.22	358.6



Tested By *TM* Date *12/10/04* Checked By *BF* Date *12-29-04*

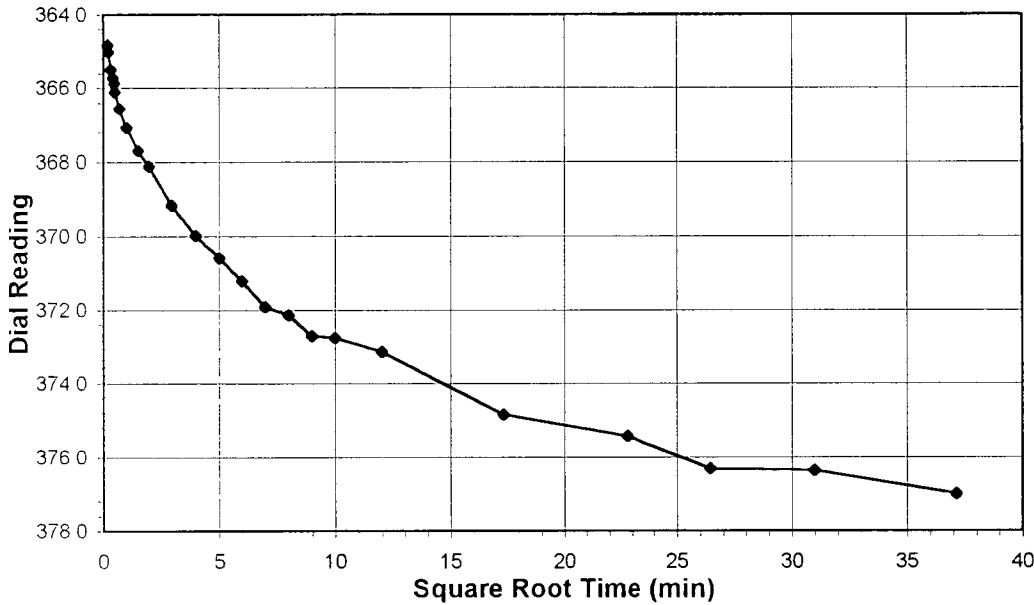


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

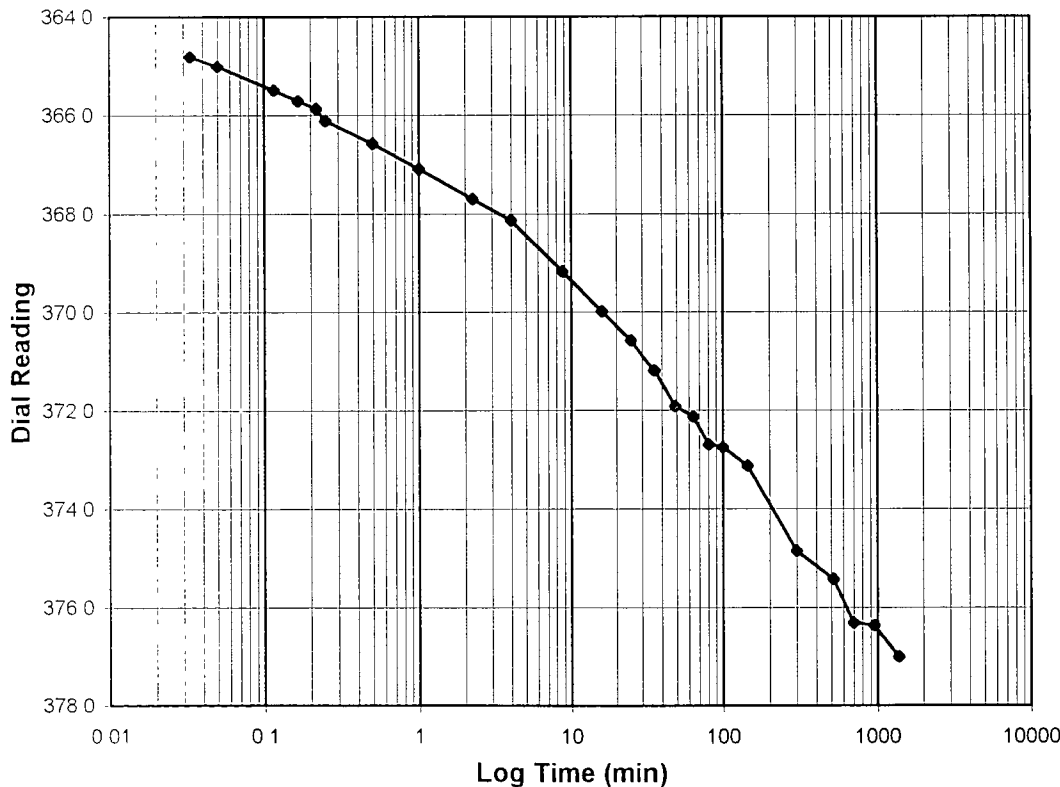
Client	BLASLAND, BOUCK, AND LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-04	Sample No.	SS55-R-POST S/T
Lab ID	2004-221-04-05	Visual Description	GRAYISH BROWN STABILIZED MATERIAL

**Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED**



<b>Test Load (tsf)</b>	<b>2.0-4.0</b>
<b>Final Reading (div)</b>	<b>377.0</b>
Consolidometer No.	4
1 Division (in)	0.0001
Start Date	12/13/04
Start Time	11:06:22

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>358.6</b>
0.03	364.8
0.05	365.0
0.12	365.5
0.17	365.7
0.22	365.9
0.25	366.1
0.50	366.6
1.00	367.1
2.25	367.7
4.00	368.1
8.78	369.2
16.00	370.0
25.00	370.6
36.00	371.2
49.00	371.9
64.00	372.1
81.00	372.7
100.00	372.8
144.00	373.1
300.00	374.9
520.00	375.4
700.00	376.3
960.00	376.4
1379.55	377.0



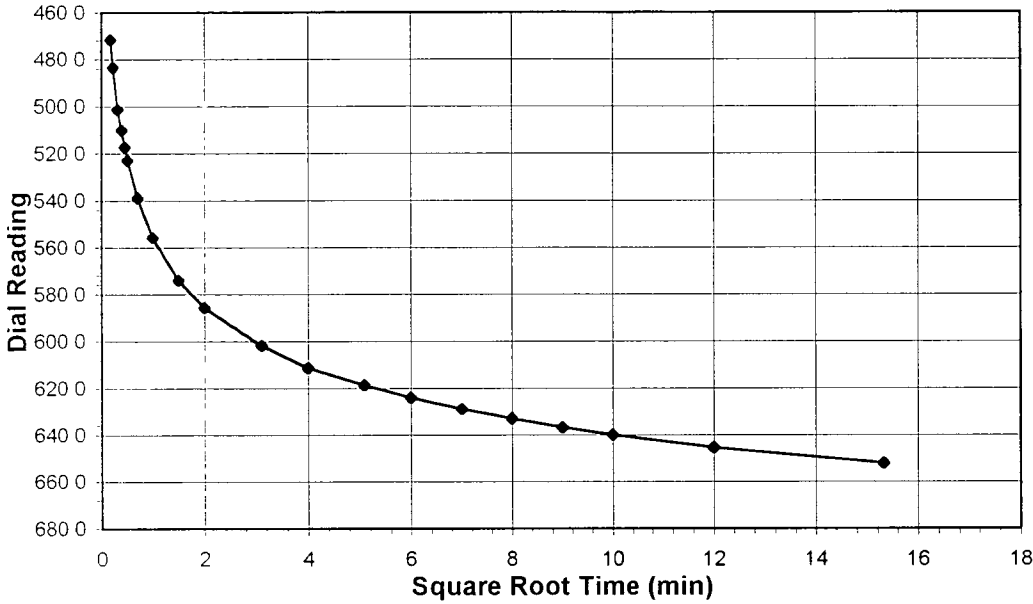
Tested By TM Date 12/13/04 Checked By BF Date 12-29-04



**ONE DIMENSIONAL CONSOLIDATION**  
ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, AND LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-04	Sample No.	SS55-R-POST S/T
Lab ID	2004-221-04-05	Visual Description	GRAYISH BROWN STABILIZED MATERIAL

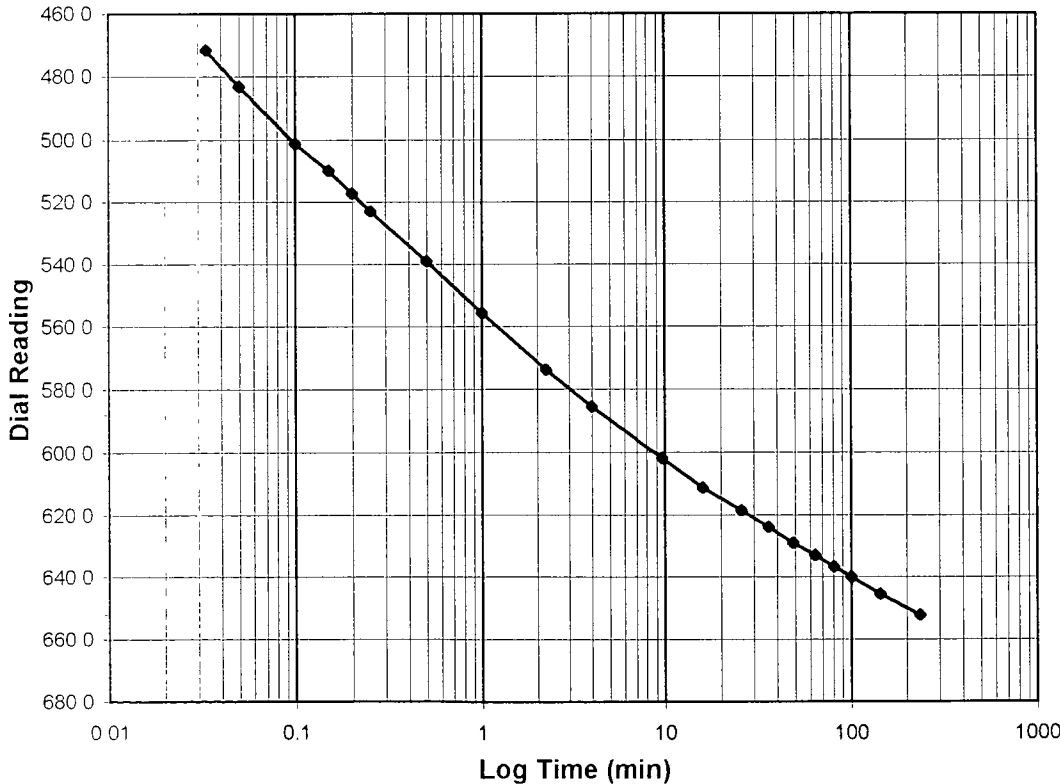
**Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED**



**Test Load (tsf)** 4.0-8.0  
**Final Reading (div)** 652.2  
 Consolidometer No. 4  
 1 Division (in) 0.0001

**Start Date** 12/14/04  
**Start Time** 10:08:47

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>377.0</b>
0.03	471.7
0.05	483.4
0.10	501.3
0.15	510.0
0.20	517.3
0.25	523.0
0.50	538.8
1.00	555.8
2.25	573.9
4.00	585.6
9.68	601.9
16.00	611.3
25.87	618.6
36.00	624.0
49.00	629.0
64.00	633.0
81.00	636.7
100.00	640.0
144.00	645.5
234.85	652.2



Tested By *TM* Date *12/14/04* Checked By *BF* Date *12-29-04*

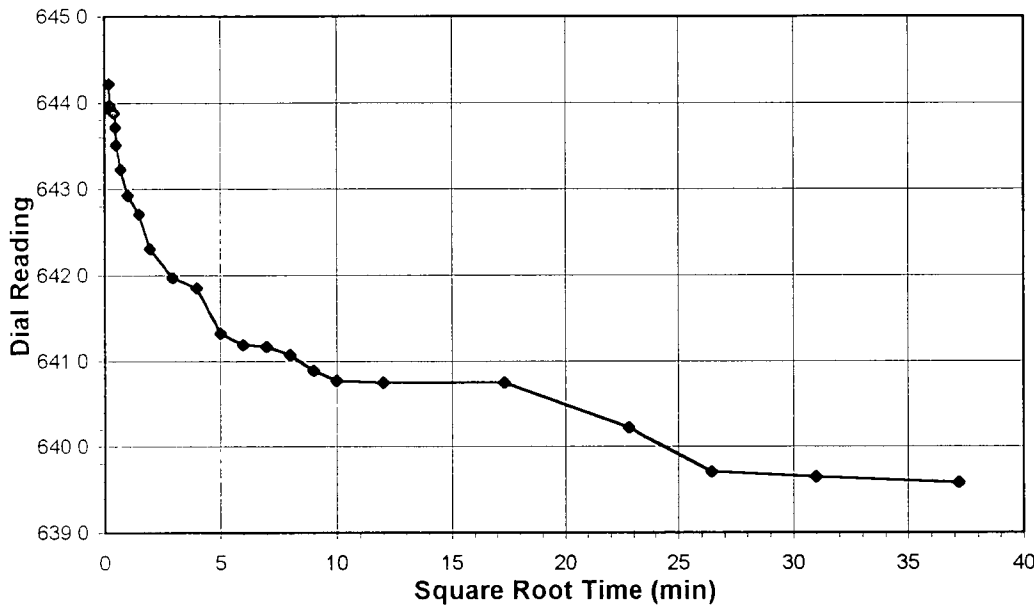


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, AND LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-04	Sample No.	SS55-R-POST S/T
Lab ID	2004-221-04-05	Visual Description	GRAYISH BROWN STABILIZED MATERIAL

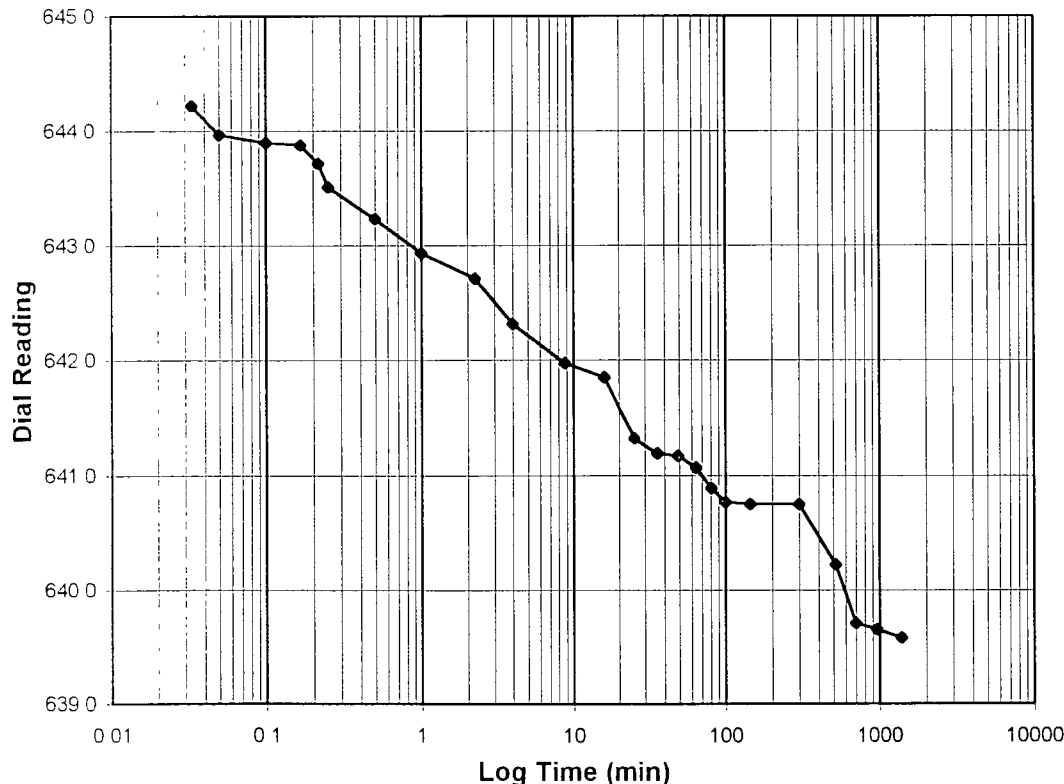
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 8.0-4.0  
 Final Reading (div) 639.6  
 Consolidometer No. 4  
 1 Division (in) 0.0001

Start Date 12/14/04  
 Start Time 14:05:17

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>652.2</b>
0.03	644.2
0.05	644.0
0.10	643.9
0.17	643.9
0.22	643.7
0.25	643.5
0.50	643.2
1.00	642.9
2.25	642.7
4.00	642.3
8.78	642.0
16.00	641.9
25.00	641.3
36.00	641.2
49.00	641.2
64.00	641.1
81.00	640.9
100.00	640.8
144.00	640.8
300.00	640.8
520.00	640.2
700.00	639.7
960.00	639.7
1383.10	639.6



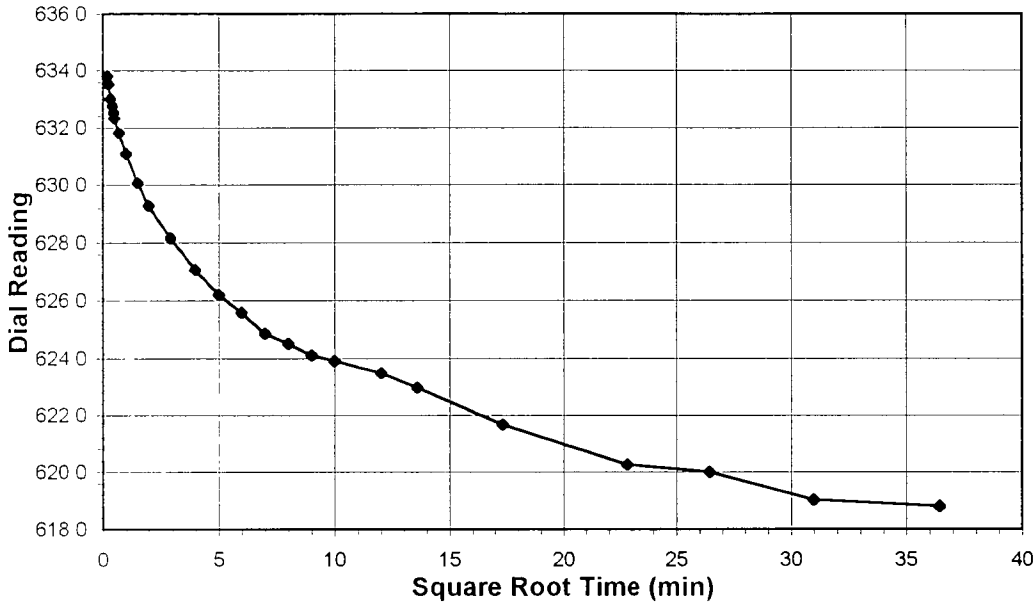
Tested By TM Date 12/14/04 Checked By BF Date 12-29-04



**ONE DIMENSIONAL CONSOLIDATION**  
ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, AND LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-04	Sample No.	SS55-R-POST S/T
Lab ID	2004-221-04-05	Visual Description	GRAYISH BROWN STABILIZED MATERIAL

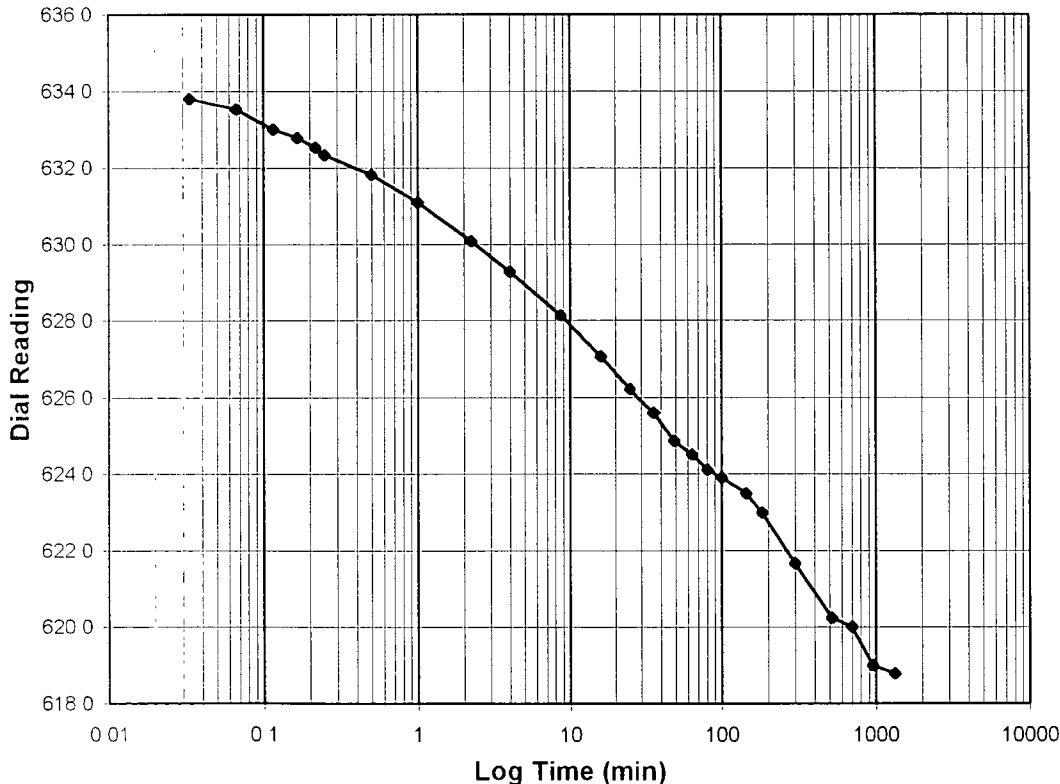
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



**Test Load (tsf)** 4.0-1.0  
**Final Reading (div)** 618.8  
 Consolidometer No. 4  
 1 Division (in) 0.0001

**Start Date** 12/15/04  
**Start Time** 13:11:44

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>639.6</b>
0.03	633.8
0.07	633.5
0.12	633.0
0.17	632.8
0.22	632.5
0.25	632.3
0.50	631.8
1.00	631.1
2.25	630.1
4.00	629.3
8.68	628.1
16.00	627.1
25.00	626.2
36.00	625.6
49.00	624.9
64.00	624.5
81.00	624.1
100.00	623.9
144.00	623.5
184.45	623.0
300.00	621.7
520.00	620.3
700.00	620.0
960.00	619.0
1327.43	618.8



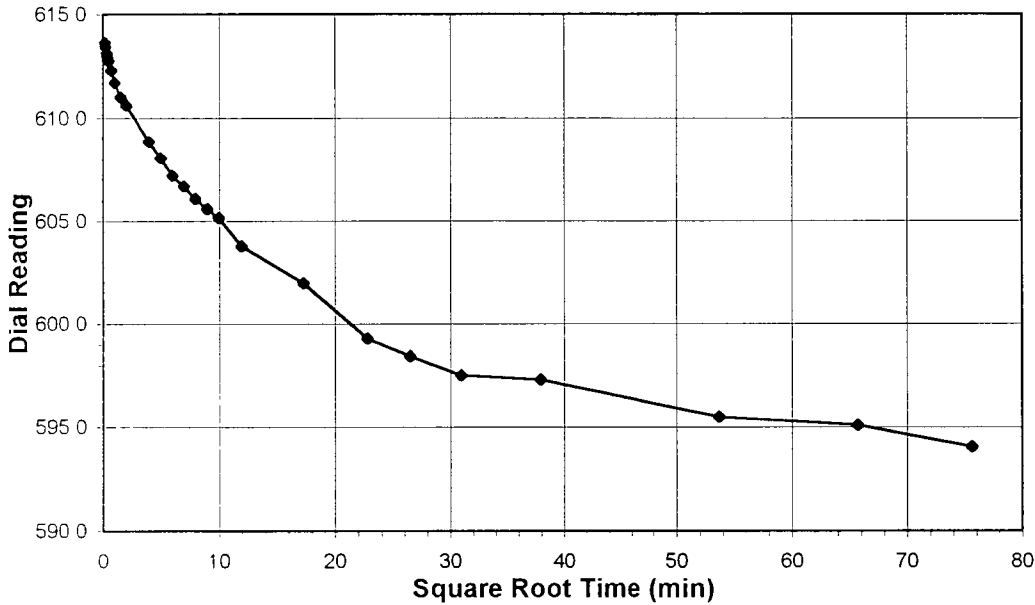
Tested By *TM* Date *12/15/04* Checked By *BF* Date *12-29-04*



**ONE DIMENSIONAL CONSOLIDATION**  
ASTM D 2435-96 (SOP-S24A)

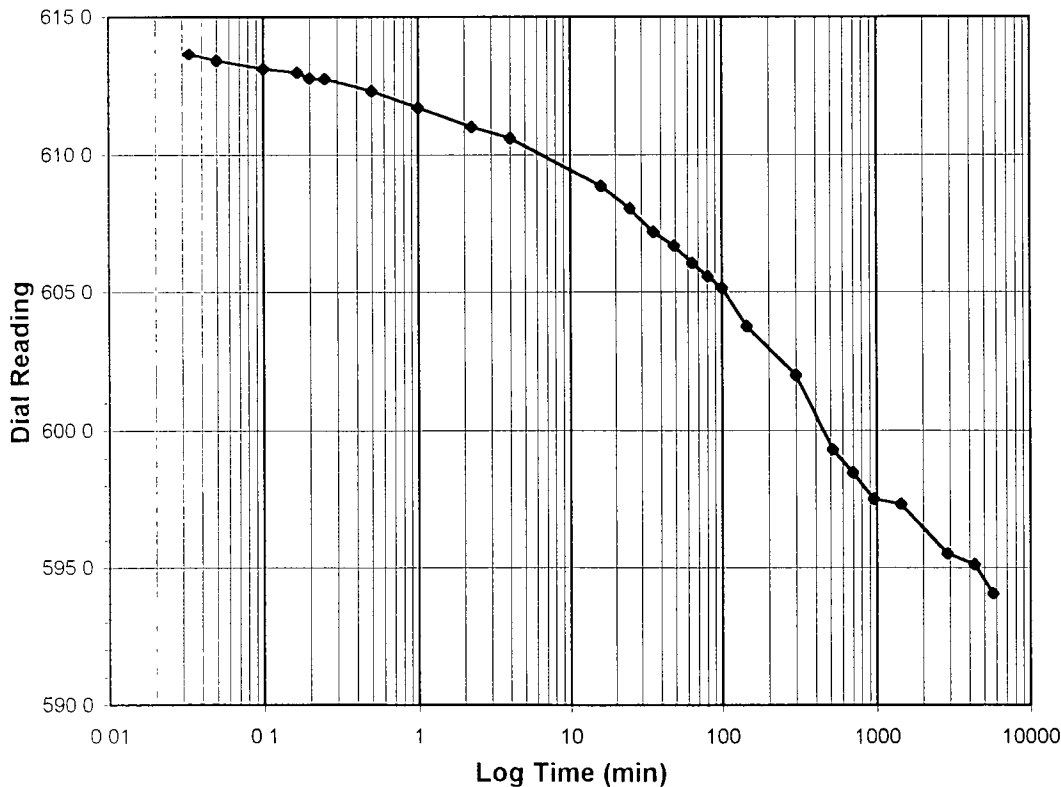
Client	BLASLAND, BOUCK, AND LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-04	Sample No.	SS55-R-POST S/T
Lab ID	2004-221-04-05	Visual Description	GRAYISH BROWN STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



<b>Test Load</b> (tsf)	<b>1.0-0.25</b>
<b>Final Reading</b> (div)	<b>594.0</b>
Consolidometer No.	4
1 Division (in)	0.0001
Start Date	12/16/04
Start Time	11:24:30

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>618.8</b>
0.03	613.7
0.05	613.4
0.10	613.1
0.17	613.0
0.20	612.8
0.25	612.8
0.50	612.3
1.00	611.7
2.25	611.0
4.00	610.6
16.00	608.9
25.00	608.1
36.00	607.2
49.00	606.7
64.00	606.1
81.00	605.6
100.00	605.1
144.00	603.8
300.00	602.0
520.00	599.3
700.00	598.5
960.00	597.5
1440.00	597.3
2880.00	595.5
4320.00	595.1
5722.27	594.0



Tested By *TM* Date *12/16/04* Checked By *BF* Date *12-29-04*

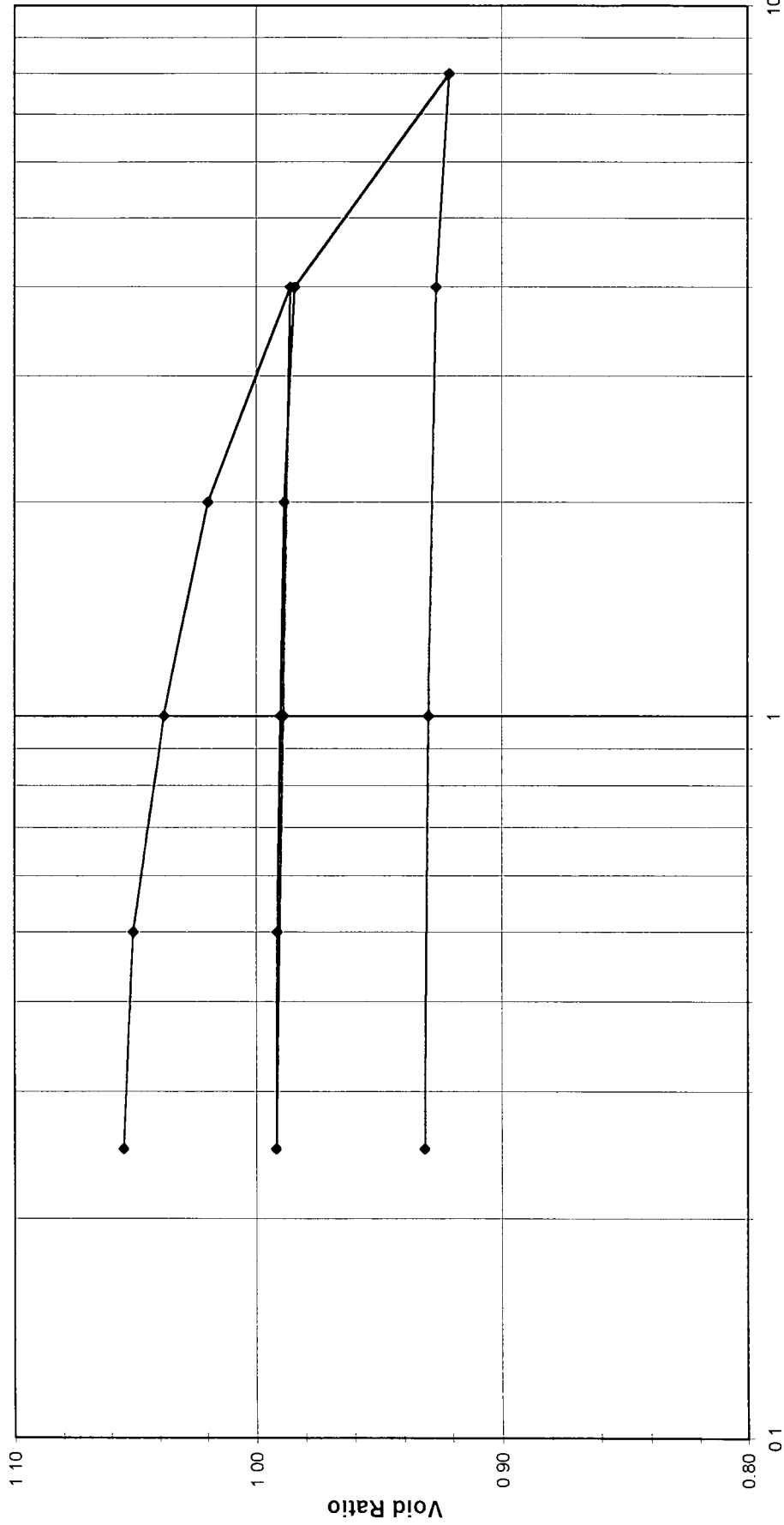


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 / AASHTO T216-03 (SOP-S24)

Client	BLASLAND, BOUCK, & LEE	Boring No.	9-22-04
Client Reference	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-04	Sample No.	SS56-R-POST S/T
Lab ID	2004-221-04-06	Visual Description	BROWN STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Log P (tsf)

Tested By DB Date 1/14/05 Approved By *Jm* Date 1-14-05





**ONE DIMENSIONAL CONSOLIDATION**

ASTM D 2435-96 / AASHTO T216-03 (SOP-S24)

Client	BLASLAND, BOUCK, & LEE	Boring No.	9-22-04
Client Reference	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-04	Sample No.	SS56-R-POST S/T
Lab ID	2004-221-04-06	Visual Description	BROWN STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED

Consolidometer No. 4  
 1 Division = 0.0001 (in)

**Sample Properties**

	Initial	Final
<i>Water Content</i>		
Tare Number	40	1399
Wt. Tare & WS (gm)	145.97	140.00
Wt. Tare & DS (gm)	135.29	112.68
Wt. Water (gm)	10.68	27.32
Wt. Tare (gm)	101.57	38.18
Wt. DS (gm)	33.72	74.50
Water Content (%)	31.67	36.67
<i>Sample Parameters</i>		
Sample Diameter (in)	2.5	2.5
Sample Height (in)	0.75	0.701
Sample Volume (cc)	60.33	56.38
Wt. Wet Sample + Ring (gm)	181.50	185.44
Wt. of Ring (gm)	77.72	77.72
Wt. of Wet Sample (gm)	103.78	107.72
Wet Density (pcf)	107.34	119.23
Wet Density (g/cc)	1.72	1.91
Water Content (%)	31.67	36.67
Wt. of Dry Sample (gm)	78.82	78.82
Dry Density (pcf)	81.52	87.24
Dry Density (g/cc)	1.31	1.40
Void Ratio	1.0667	0.9313
Saturation (%)	80.17	106.32
Specific Gravity	2.70	Assumed

**Test Data Summary**

Applied Pressure (tsf)	Final Reading (div)	Machine Deflection (div)	Corrected Reading (div)	Height of Sample (mm)	Volume (cc)	Dry Density (g/cc)	Void Ratio
Seating	0	0	0	19.050	60.330	1.30643	1.06670
0.25	49.2	6.6	42.6	18.942	59.987	1.31389	1.05496
0.5	69.4	11.7	57.7	18.903	59.866	1.31656	1.05080
1	122.7	18.5	104.2	18.785	59.492	1.32484	1.03799
2	199.0	28.5	170.5	18.617	58.958	1.33682	1.01972
4	334.0	41.2	292.8	18.306	57.975	1.35950	0.98602
1	313.0	30.8	282.2	18.333	58.060	1.35751	0.98894
0.25	286.3	14.6	271.7	18.360	58.144	1.35554	0.99183
0.5	290.8	17.5	273.3	18.356	58.131	1.35584	0.99139
1	299.8	21.6	278.2	18.343	58.092	1.35676	0.99004
2	313.0	29.4	283.6	18.330	58.049	1.35777	0.98855
4	341.1	41.6	299.5	18.289	57.921	1.36077	0.98417
8	581.4	53.3	528.1	17.709	56.082	1.40539	0.92118
4	571.7	63.7	508.0	17.760	56.244	1.40135	0.92672
1	548.2	51.3	496.9	17.788	56.333	1.39913	0.92978
0.25	528.1	36.7	491.4	17.802	56.377	1.39803	0.93129

Tested By DB Date 1/14/05 Input Checked By BF Date 1-14-05

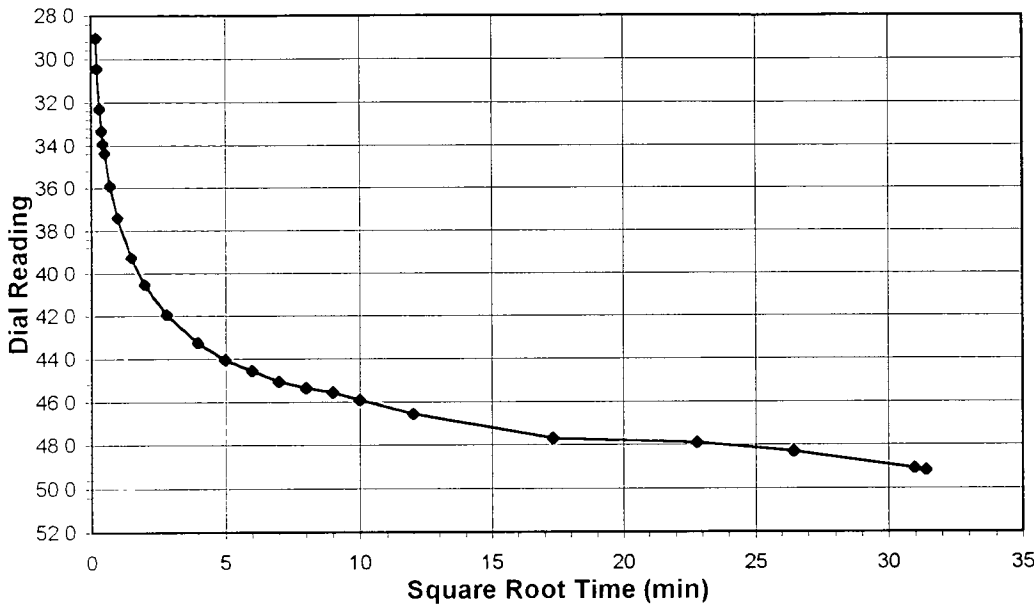


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

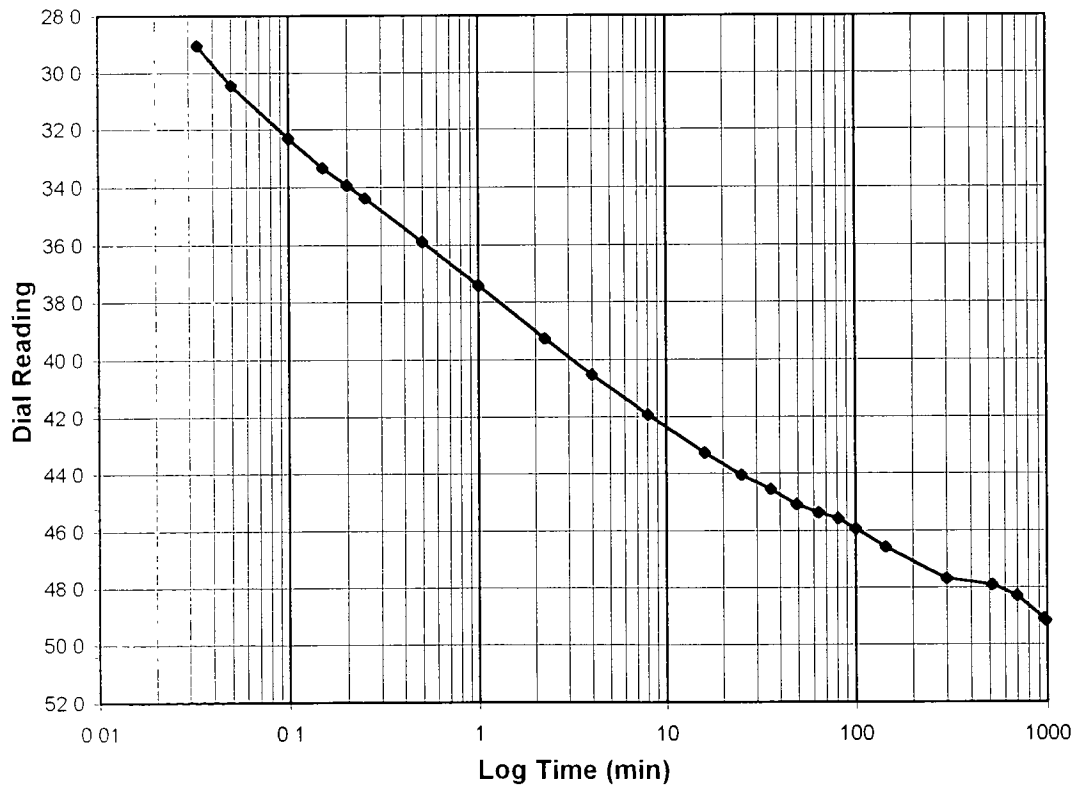
Client	BLASLAND, BOUCK, & LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-04	Sample No.	SS564-R-POST S/T (BOTTOM)
Lab ID	2004-221-04-06	Visual Description	BROWN STABILIZED MATERIAL

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0-0.25
Final Reading (div)	49.2
Consolidometer No.	4
1 Division (in)	0.0001
Start Date	12/28/04
Start Time	16:57:49

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<i>0.0</i>
0.03	29.0
0.05	30.5
0.10	32.3
0.15	33.3
0.20	33.9
0.25	34.4
0.50	35.9
1.00	37.4
2.25	39.3
4.00	40.5
8.03	42.0
16.00	43.3
25.00	44.1
36.00	44.6
49.00	45.1
64.00	45.4
81.00	45.6
100.00	45.9
144.00	46.6
300.00	47.7
520.00	47.9
700.00	48.3
960.00	49.1
987.97	49.2



Tested By TM Date 12/28/04 Checked By BF Date 1-14-05

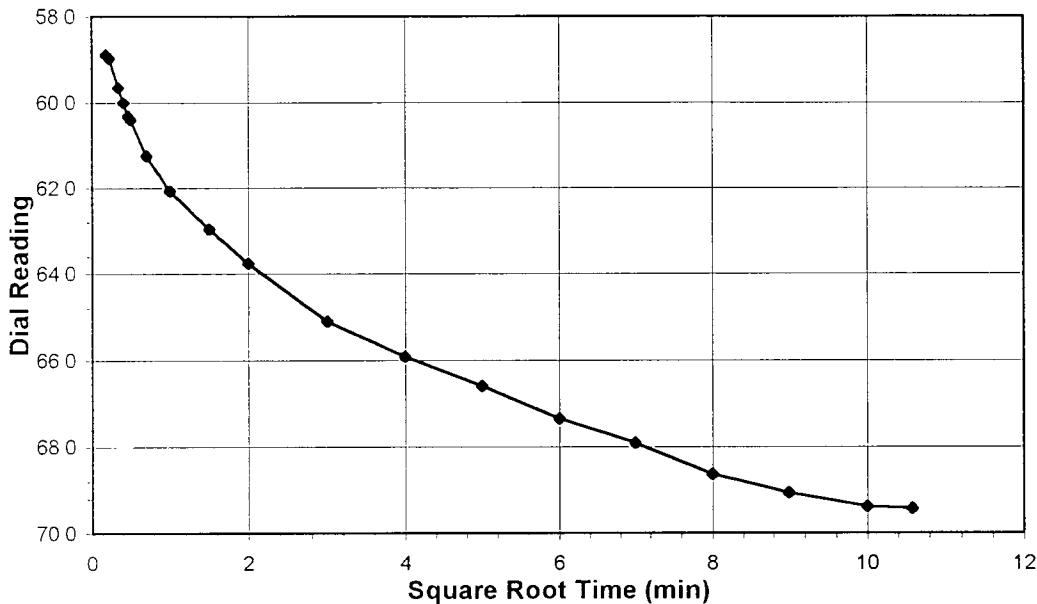


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-04	Sample No.	SS564-R-POST S/T (BOTTOM)
Lab ID	2004-221-04-06	Visual Description	BROWN STABILIZED MATERIAL

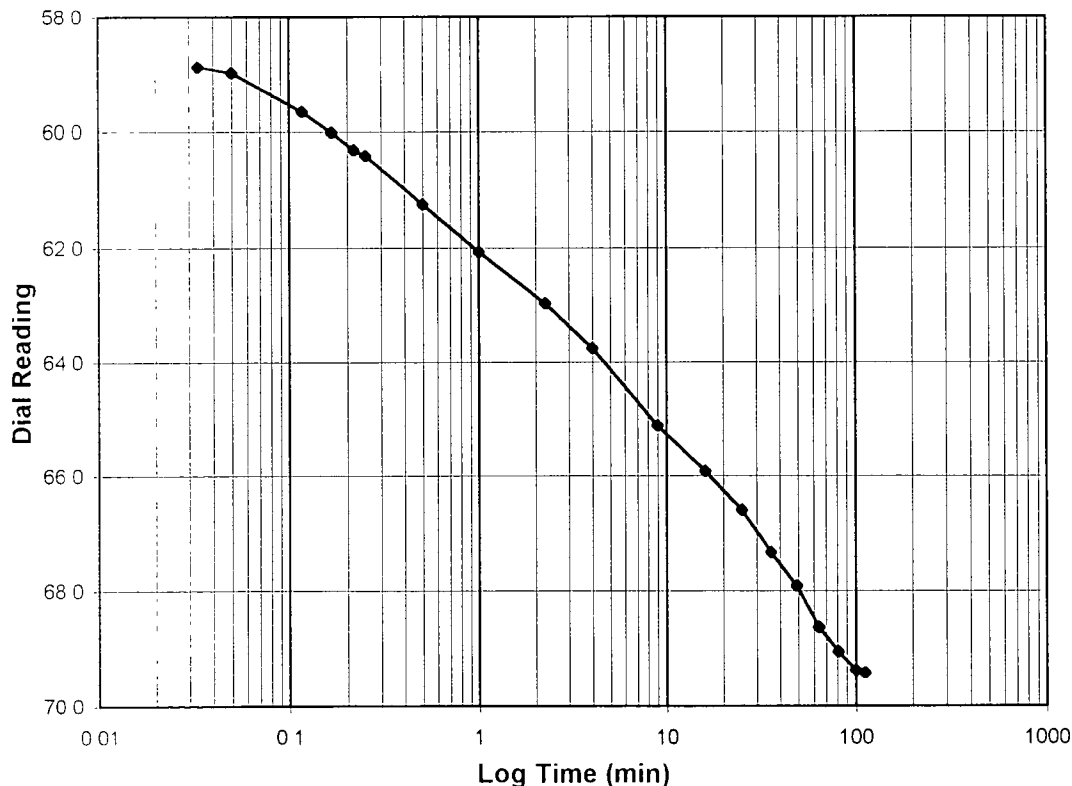
Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 0.25-0.5  
 Final Reading (div) 69.4  
 Consolidometer No. 4  
 1 Division (in) 0.0001

Start Date 12/29/04  
 Start Time 9:35:04

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	49.2
0.03	58.9
0.05	59.0
0.12	59.7
0.17	60.0
0.22	60.3
0.25	60.4
0.50	61.2
1.00	62.1
2.25	63.0
4.00	63.8
9.02	65.1
16.00	65.9
25.00	66.6
36.00	67.3
49.00	67.9
64.00	68.6
81.00	69.1
100.00	69.4
112.05	69.4



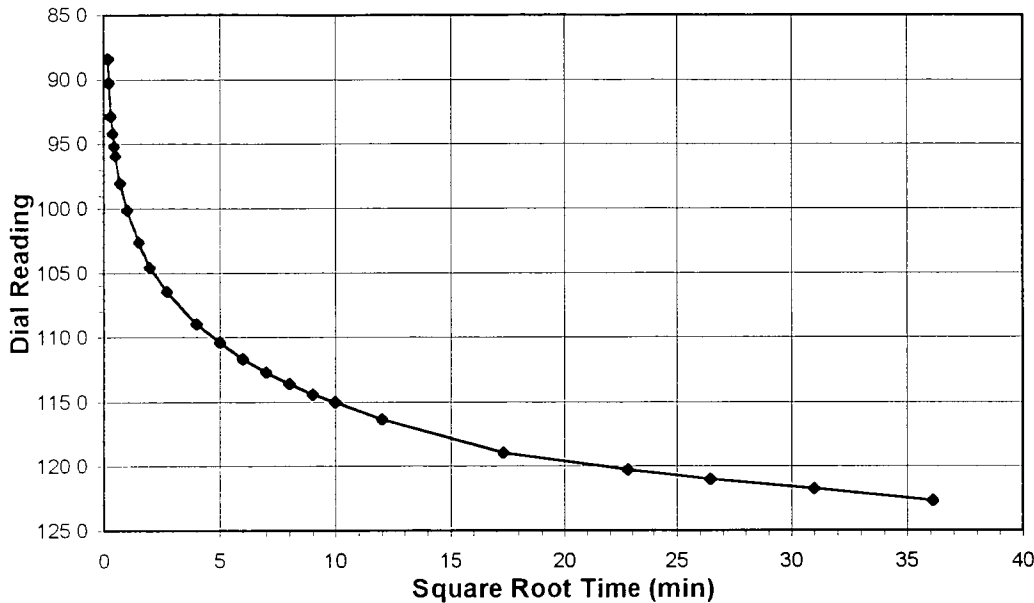
Tested By TM Date 12/29/04 Checked By BF Date 1-14-05

# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

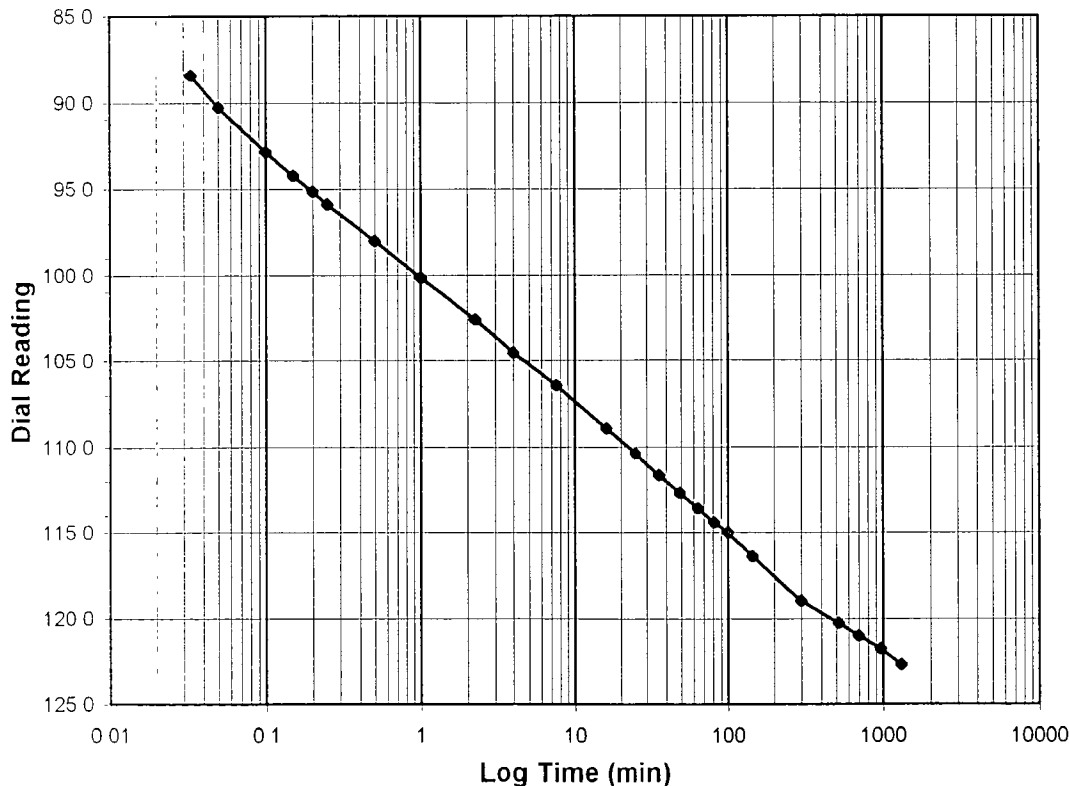
Client	BLASLAND, BOUCK, & LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-04	Sample No.	SS564-R-POST S/T (BOTTOM)
Lab ID	2004-221-04-06	Visual Description	BROWN STABILIZED MATERIAL

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.5-1.0
Final Reading (div)	122.7
Consolidometer No.	4
1 Division (in)	0.0001
Start Date	12/29/04
Start Time	11:30:38

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>69.4</b>
0.03	88.4
0.05	90.3
0.10	92.9
0.15	94.2
0.20	95.2
0.25	95.9
0.50	98.0
1.00	100.2
2.25	102.6
4.00	104.6
7.57	106.5
16.00	108.9
25.00	110.4
36.00	111.7
49.00	112.7
64.02	113.6
81.00	114.4
100.00	115.0
144.00	116.4
300.00	119.0
520.00	120.3
700.00	121.0
960.00	121.8
1303.28	122.7



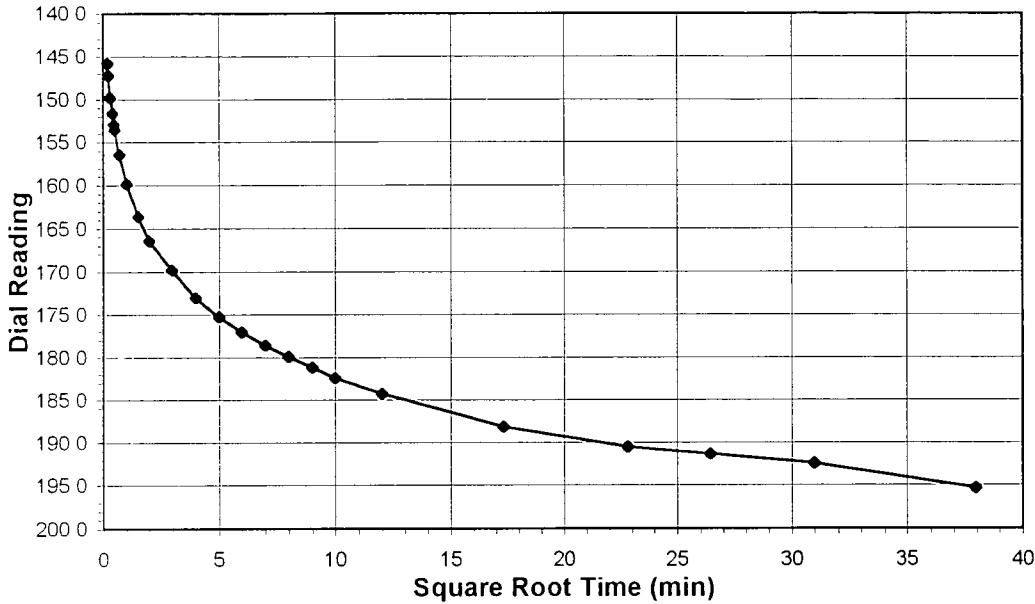
Tested By *TM* Date *12/29/04* Checked By *BF* Date *1-14-05*



**ONE DIMENSIONAL CONSOLIDATION**  
ASTM D 2435-96 (SOP-S24A)

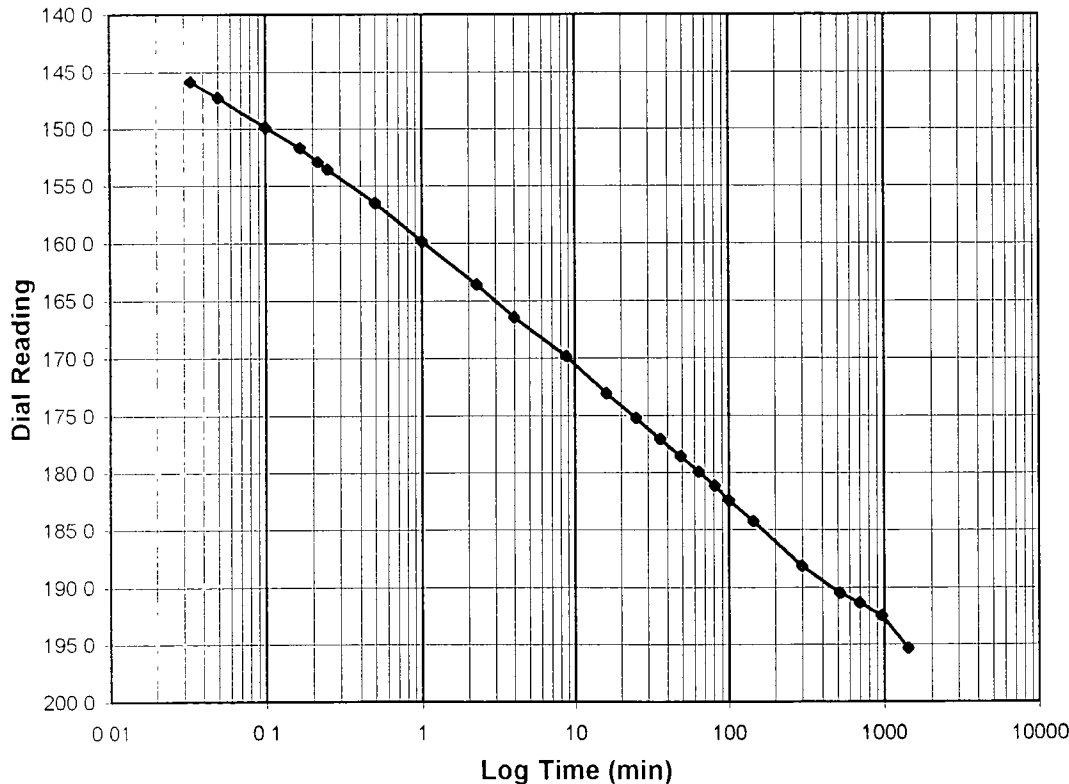
Client	BLASLAND, BOUCK, & LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-04	Sample No.	SS564-R-POST S/T (BOTTOM)
Lab ID	2004-221-04-06	Visual Description	BROWN STABILIZED MATERIAL

**Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED**



Test Load (tsf)	1.0-2.0
Final Reading (div)	199.0
Consolidometer No.	4
1 Division (in)	0.0001
Start Date	12/30/04
Start Time	9:20:51

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>122.7</b>
0.03	145.9
0.05	147.3
0.10	149.9
0.17	151.7
0.22	152.9
0.25	153.6
0.50	156.5
1.00	159.8
2.27	163.6
4.00	166.4
8.78	169.9
16.00	173.0
25.00	175.3
36.00	177.1
49.00	178.6
64.00	179.9
81.00	181.2
100.00	182.4
144.00	184.3
300.00	188.2
520.00	190.5
700.00	191.4
960.00	192.5
1440.00	195.3
2880.00	197.6
4320.00	198.9
5760.00	199.0



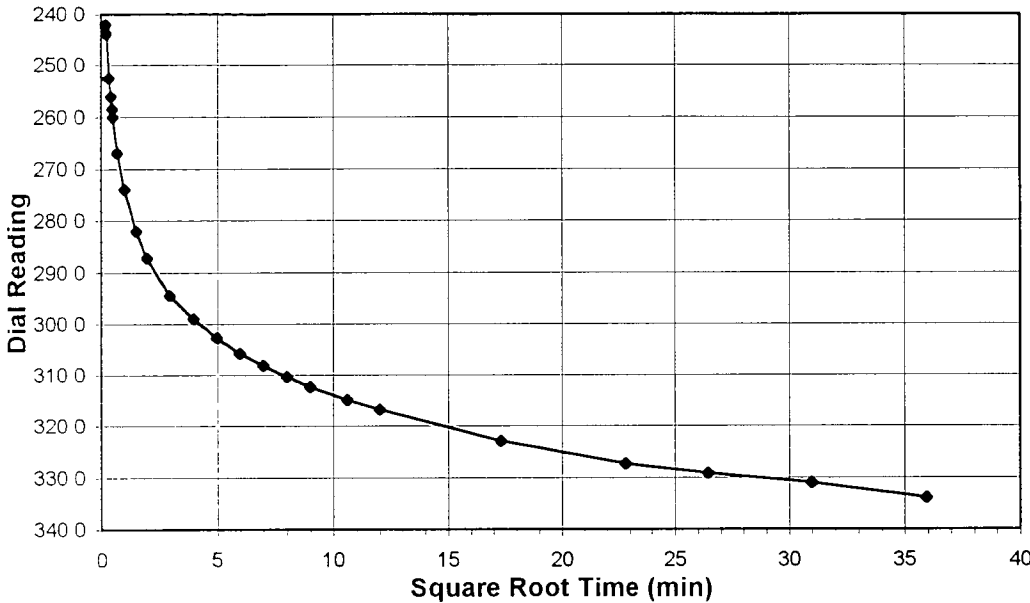
Tested By *TM* Date *12/30/04* Checked By *BF* Date *1-14-05*

**ONE DIMENSIONAL CONSOLIDATION**  
ASTM D 2435-96 (SOP-S24A)



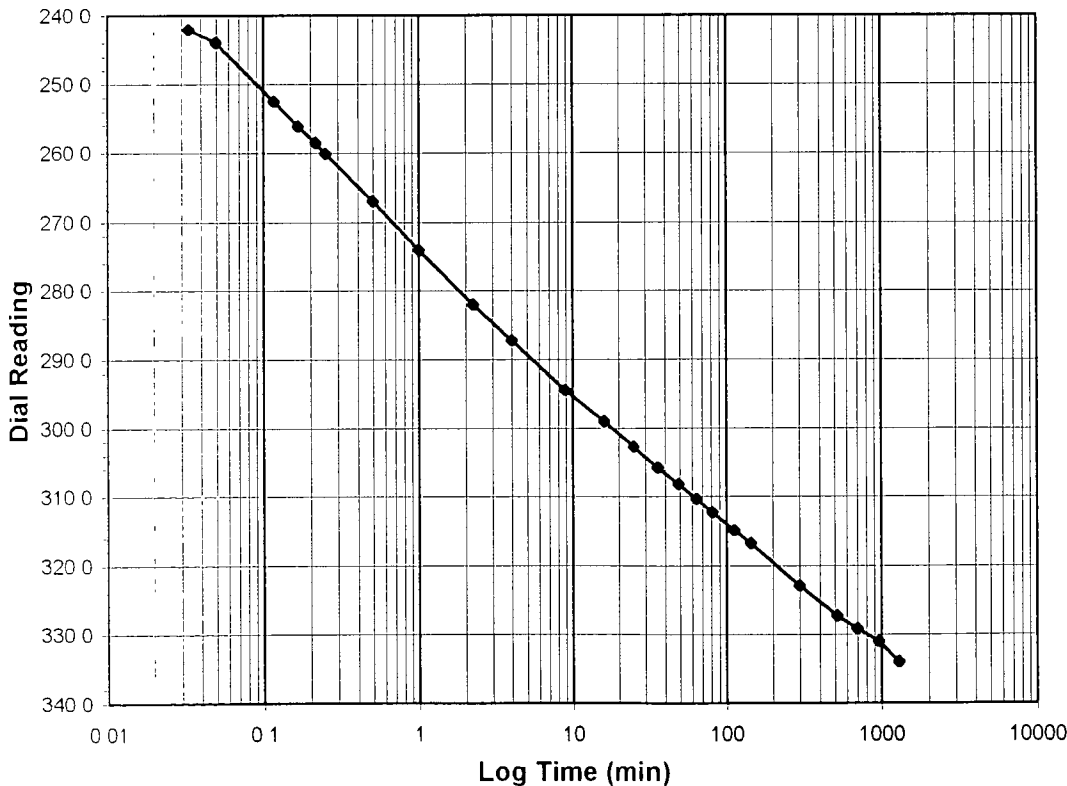
Client	BLASLAND, BOUCK, & LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-04	Sample No.	SS564-R-POST S/T (BOTTOM)
Lab ID	2004-221-04-06	Visual Description	BROWN STABILIZED MATERIAL

**Sample Conditions:** UNDISTURBED, INUNDATED AND DOUBLE DRAINED



<b>Test Load</b> (tsf)	<b>2.0-4.0</b>
<b>Final Reading</b> (div)	<b>334.0</b>
Consolidometer No.	4
1 Division (in)	0.0001
Start Date	1/3/05
Start Time	9:59:16

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>199.0</b>
0.03	242.1
0.05	243.9
0.12	252.5
0.17	256.2
0.22	258.5
0.25	260.1
0.50	267.0
1.00	274.0
2.25	282.0
4.00	287.2
8.87	294.5
16.00	299.0
25.00	302.8
36.00	305.8
49.00	308.2
64.00	310.4
81.00	312.3
112.78	314.9
144.00	316.8
300.00	322.9
520.00	327.3
700.00	329.2
960.00	331.0
1291.07	334.0



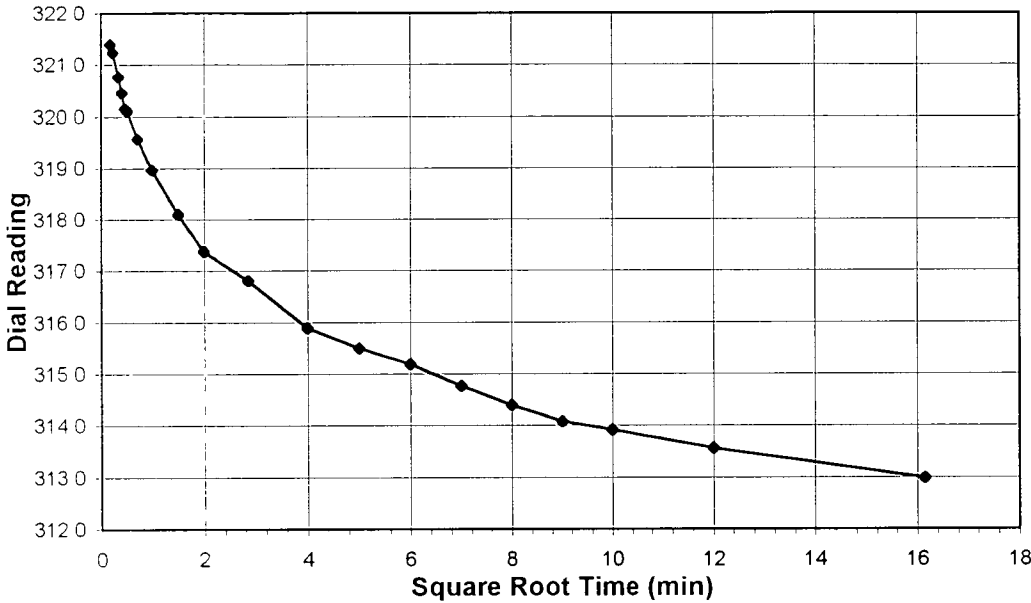
Tested By *TM* Date *1/3/05* Checked By *BF* Date *1-14-05*

**ONE DIMENSIONAL CONSOLIDATION**  
ASTM D 2435-96 (SOP-S24A)



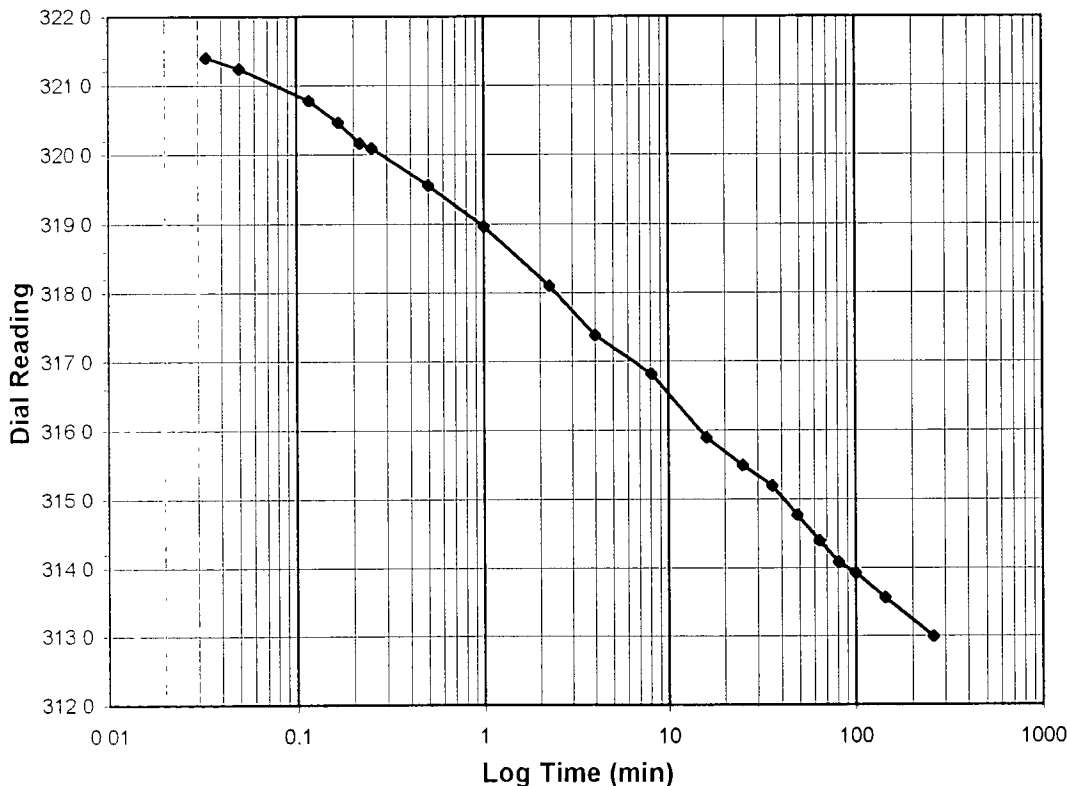
Client	BLASLAND, BOUCK, & LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-04	Sample No.	SS564-R-POST S/T (BOTTOM)
Lab ID	2004-221-04-06	Visual Description	BROWN STABILIZED MATERIAL

**Sample Conditions:** UNDISTURBED, INUNDATED AND DOUBLE DRAINED



<b>Test Load</b> (tsf)	<b>4.0-1.0</b>
<b>Final Reading</b> (div)	<b>313.0</b>
Consolidometer No.	4
1 Division (in)	0.0001
<b>Start Date</b>	<b>1/4/05</b>
<b>Start Time</b>	<b>7:33:09</b>

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>334.0</b>
0.03	321.4
0.05	321.2
0.12	320.8
0.17	320.5
0.22	320.2
0.25	320.1
0.50	319.6
1.00	319.0
2.25	318.1
4.00	317.4
8.18	316.8
16.00	315.9
25.00	315.5
36.00	315.2
49.02	314.8
64.00	314.4
81.00	314.1
100.00	313.9
144.00	313.6
260.62	313.0



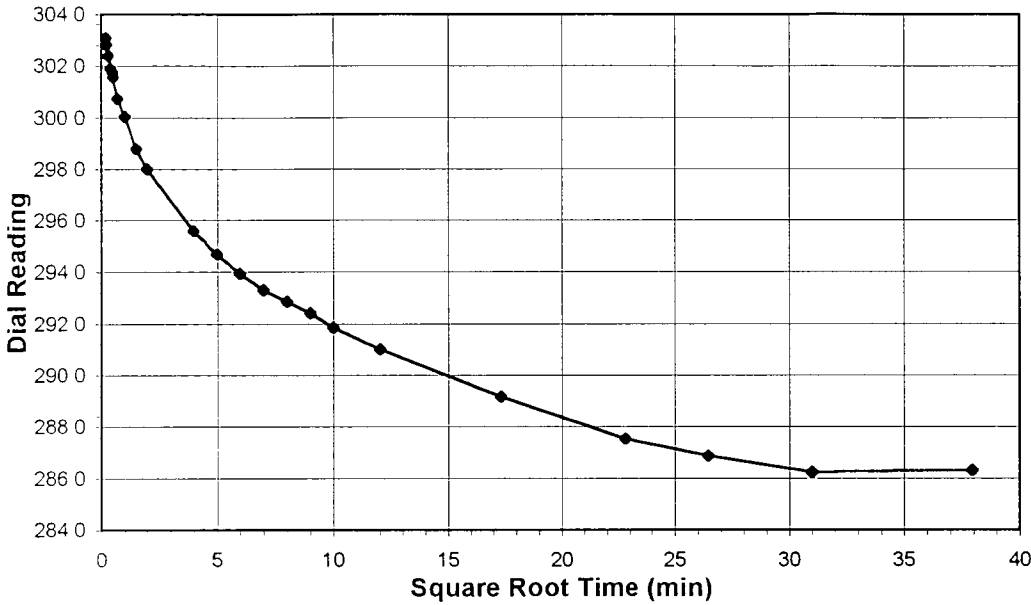
Tested By *TM* Date *1/4/05* Checked By *BF* Date *1-14-05*

**ONE DIMENSIONAL CONSOLIDATION**  
ASTM D 2435-96 (SOP-S24A)



Client	BLASLAND, BOUCK, & LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-04	Sample No.	SS564-R-POST S/T (BOTTOM)
Lab ID	2004-221-04-06	Visual Description	BROWN STABILIZED MATERIAL

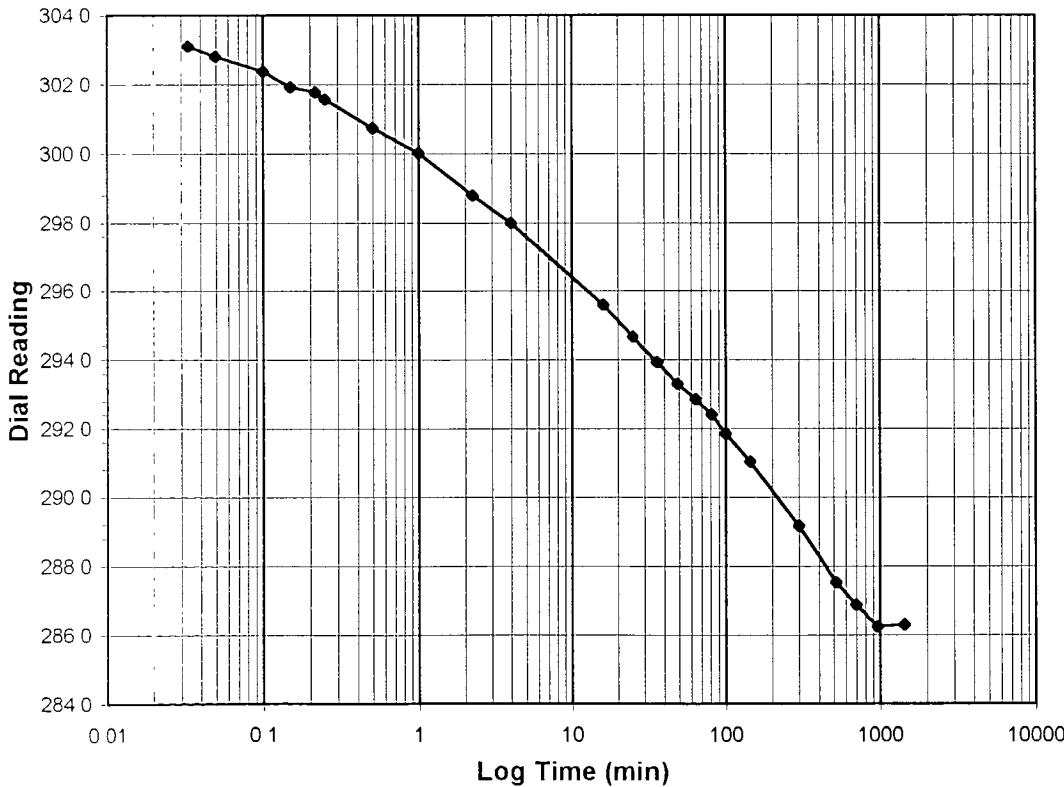
**Sample Conditions:** UNDISTURBED, INUNDATED AND DOUBLE DRAINED



**Test Load (tsf)** 1.0-0.25  
**Final Reading (div)** 286.3  
 Consolidometer No. 4  
 1 Division (in) 0.0001

**Start Date** 1/4/05  
**Start Time** 11:58:22

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>313.0</b>
0.03	303.1
0.05	302.8
0.10	302.4
0.15	301.9
0.22	301.8
0.25	301.6
0.50	300.7
1.00	300.0
2.25	298.8
4.00	298.0
16.00	295.6
25.00	294.7
36.00	293.9
49.00	293.3
64.00	292.9
81.00	292.4
100.00	291.8
144.00	291.0
300.00	289.2
520.00	287.5
700.00	286.9
960.00	286.3
1440.00	286.3



Tested By *TM* Date *1/4/05* Checked By *BF* Date *1-14-05*

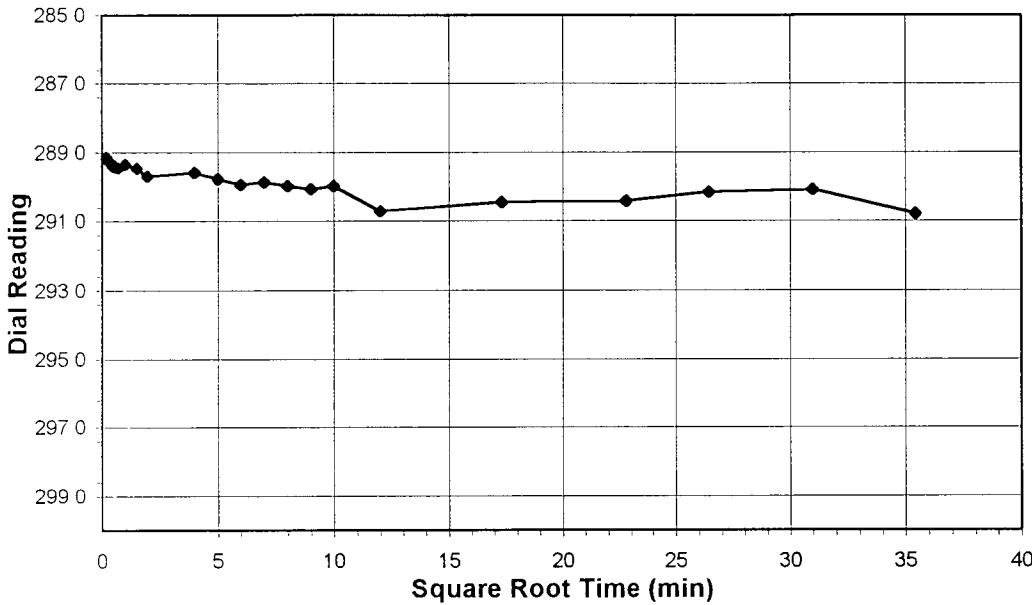


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

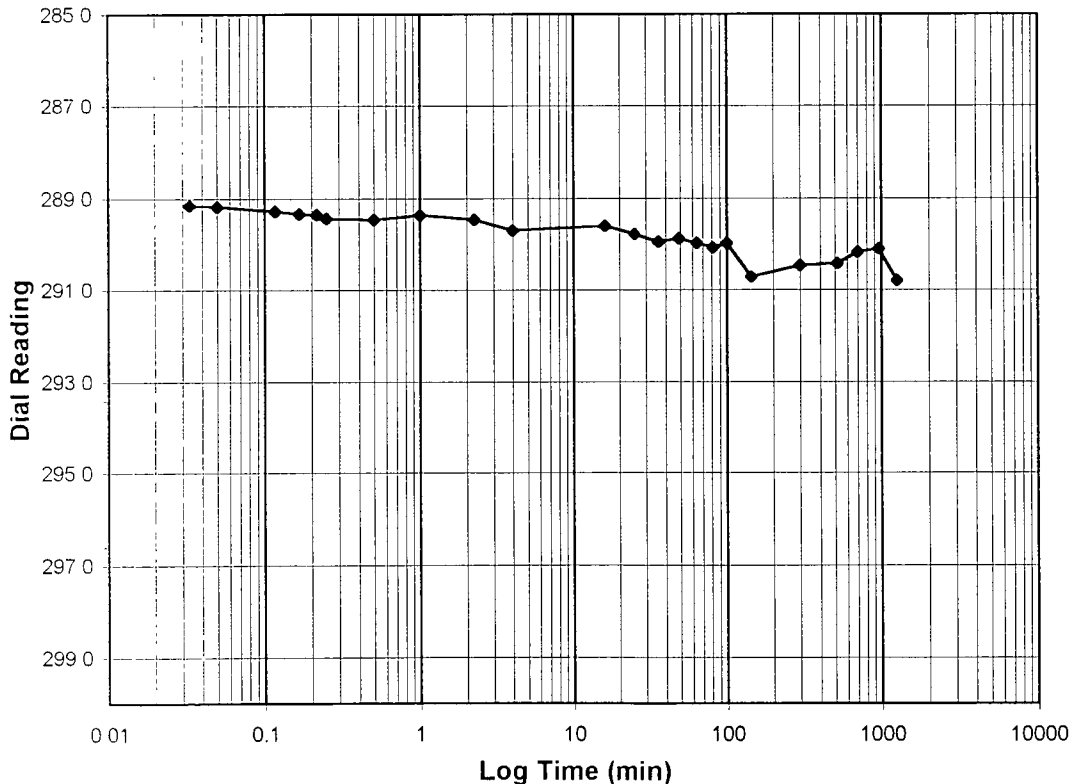
Client	BLASLAND, BOUCK, & LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-04	Sample No.	SS564-R-POST S/T (BOTTOM)
Lab ID	2004-221-04-06	Visual Description	BROWN STABILIZED MATERIAL

**Sample Conditions:** UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.25-0.50
Final Reading (div)	290.8
Consolidometer No.	4
1 Division (in)	0.0001
Start Date	1/5/05
Start Time	12:48:20

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>286.3</b>
0.03	289.2
0.05	289.2
0.12	289.3
0.17	289.3
0.22	289.4
0.25	289.4
0.50	289.5
1.00	289.4
2.25	289.5
4.00	289.7
16.00	289.6
25.00	289.8
36.00	290.0
49.00	289.9
64.00	290.0
81.00	290.1
100.00	290.0
144.00	290.7
300.00	290.5
520.00	290.4
700.02	290.2
960.00	290.1
1255.00	290.8



Tested By *TM* Date *1/5/05* Checked By *BF* Date *1-14-05*

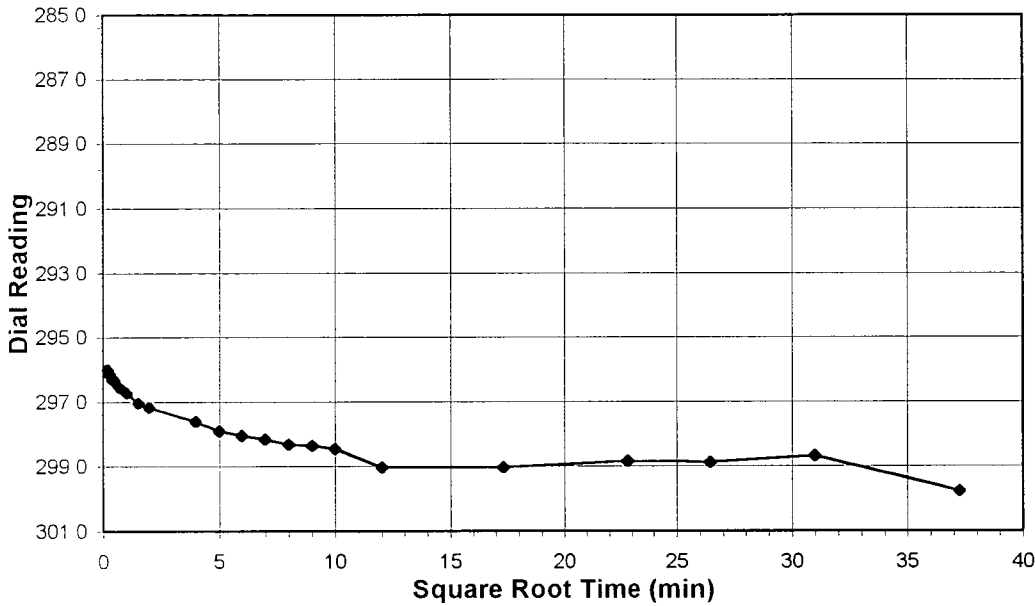


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-04	Sample No.	SS564-R-POST S/T (BOTTOM)
Lab ID	2004-221-04-06	Visual Description	BROWN STABILIZED MATERIAL

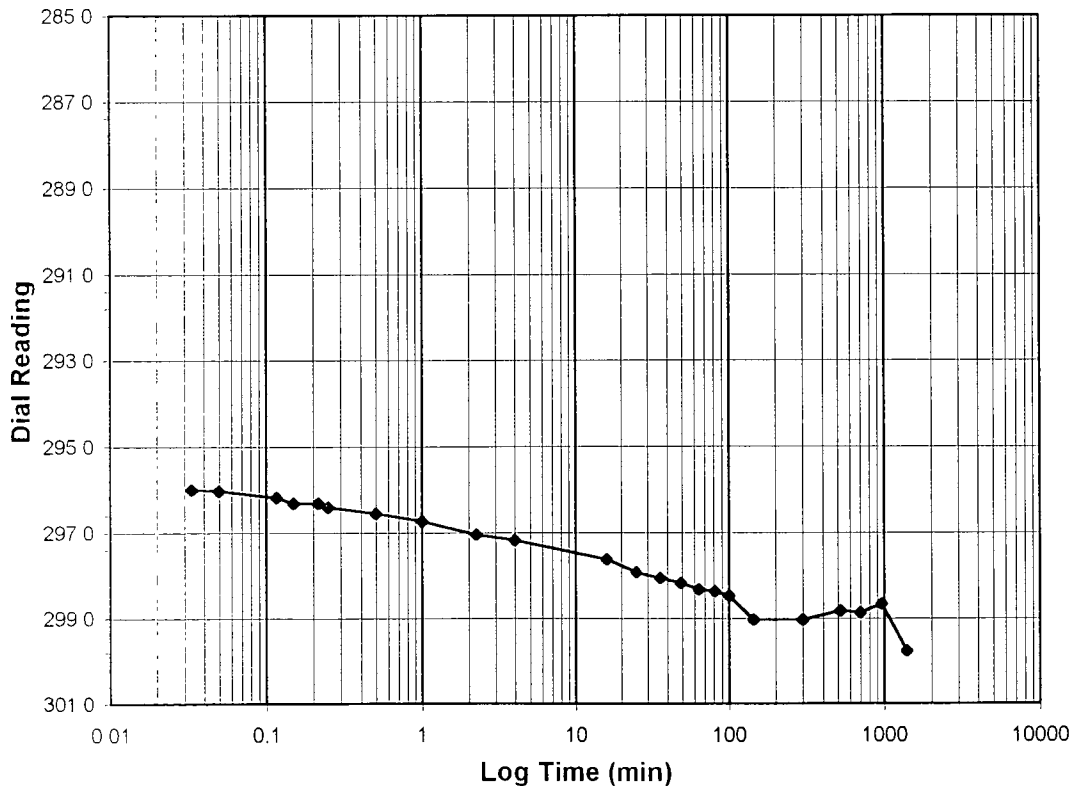
Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 0.5-1.00  
 Final Reading (div) 299.8  
 Consolidometer No. 4  
 1 Division (in) 0.0001

Start Date 1/6/05  
 Start Time 9:56:18

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>290.8</b>
0.03	296.0
0.05	296.0
0.12	296.2
0.15	296.3
0.22	296.3
0.25	296.4
0.50	296.6
1.00	296.7
2.25	297.1
4.00	297.2
16.00	297.6
25.00	297.9
36.00	298.1
49.00	298.2
64.00	298.3
81.00	298.4
100.00	298.5
144.00	299.0
300.00	299.0
520.00	298.8
700.00	298.9
960.00	298.7
1388.00	299.8



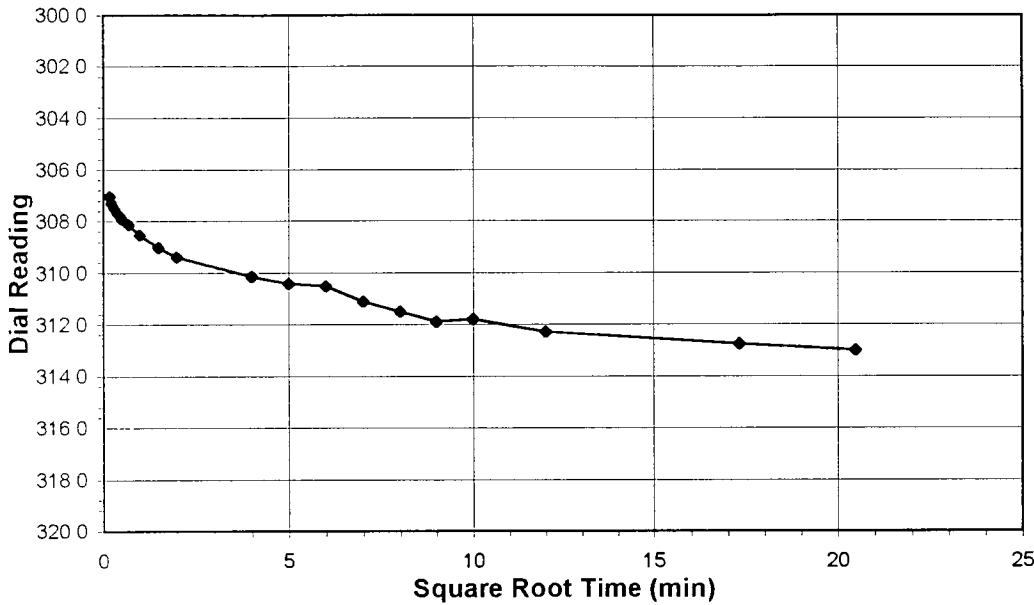
Tested By TM Date 1/6/05 Checked By BF Date 1-14-05



**ONE DIMENSIONAL CONSOLIDATION**  
ASTM D 2435-96 (SOP-S24A)

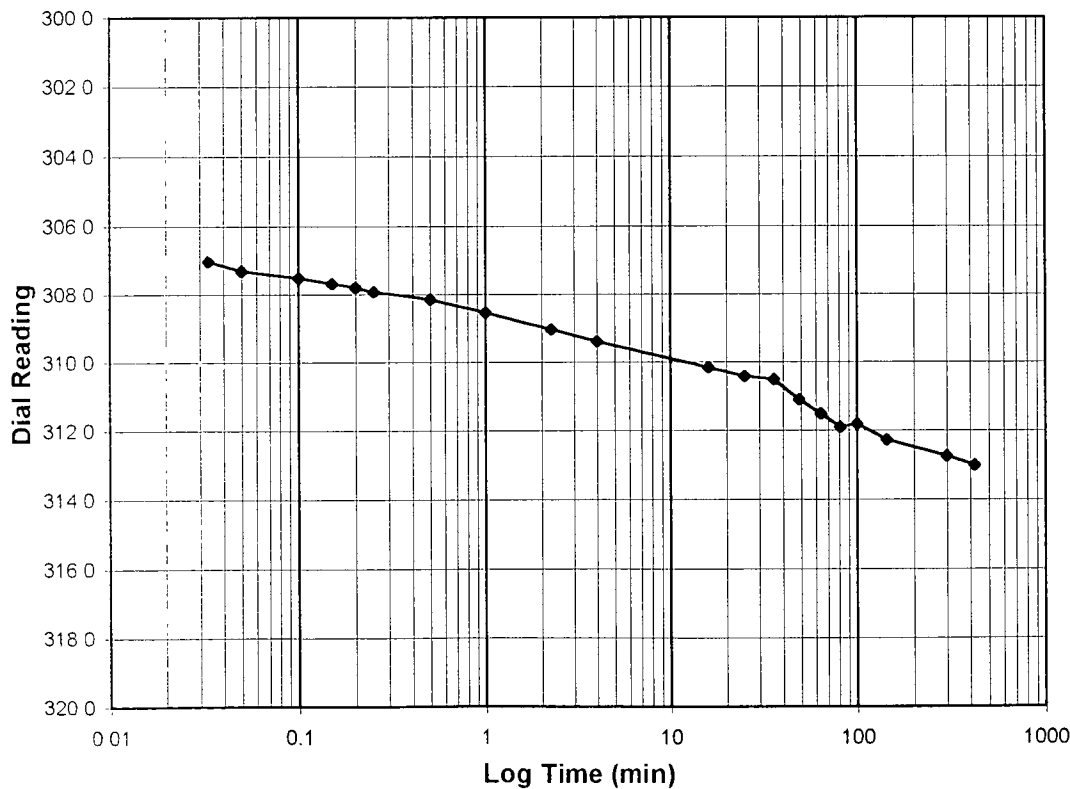
Client	BLASLAND, BOUCK, & LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-04	Sample No.	SS564-R-POST S/T (BOTTOM)
Lab ID	2004-221-04-06	Visual Description	BROWN STABILIZED MATERIAL

**Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED**



Test Load (tsf)	1.0-2.0
Final Reading (div)	313.0
Consolidometer No.	4
1 Division (in)	0.0001
Start Date	1/7/05
Start Time	9:17:53

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>299.8</b>
0.03	307.0
0.05	307.3
0.10	307.5
0.15	307.7
0.20	307.8
0.25	307.9
0.50	308.1
1.00	308.5
2.25	309.0
4.00	309.4
16.00	310.2
25.00	310.4
36.00	310.5
49.00	311.1
64.00	311.5
81.00	311.9
100.00	311.8
144.00	312.3
300.00	312.8
420.00	313.0



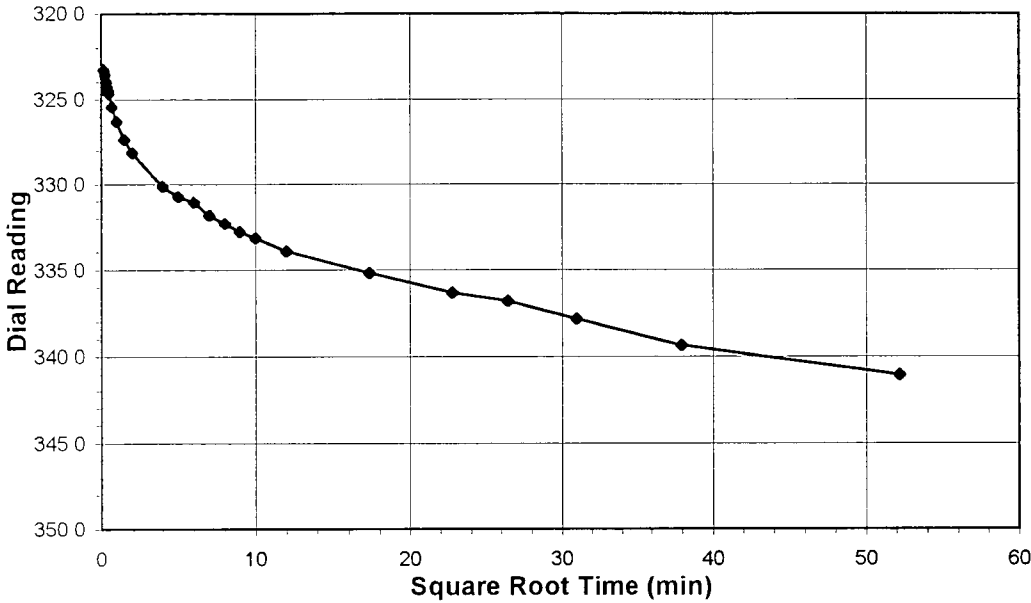
Tested By *TM* Date *1/7/05* Checked By *BF* Date *1-14-05*

**ONE DIMENSIONAL CONSOLIDATION**  
ASTM D 2435-96 (SOP-S24A)



Client	BLASLAND, BOUCK, & LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-04	Sample No.	SS564-R-POST S/T (BOTTOM)
Lab ID	2004-221-04-06	Visual Description	BROWN STABILIZED MATERIAL

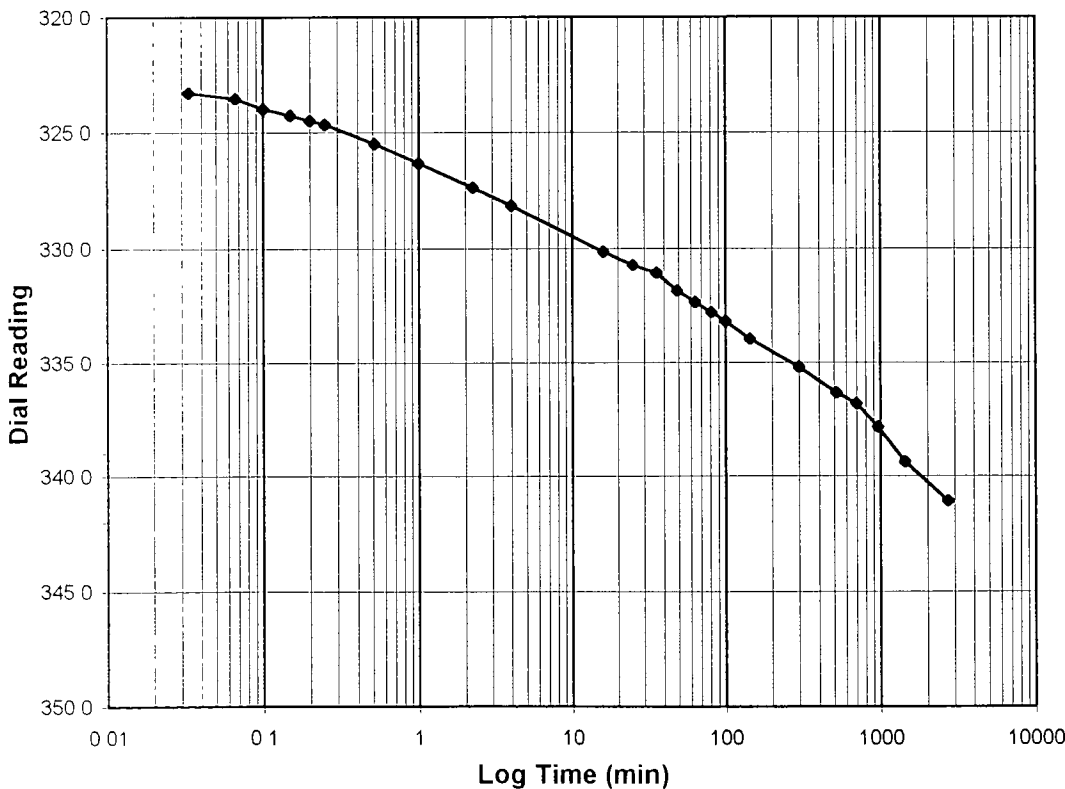
**Sample Conditions:** UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	2.0-4.0
Final Reading (div)	341.1
Consolidometer No.	4
1 Division (in)	0.0001

Start Date	1/7/05
Start Time	16:29:14

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>313.0</b>
0.03	323.3
0.07	323.6
0.10	324.0
0.15	324.3
0.20	324.5
0.25	324.7
0.52	325.5
1.00	326.3
2.25	327.4
4.00	328.1
16.00	330.2
25.00	330.7
36.00	331.1
49.00	331.8
64.00	332.3
81.00	332.8
100.00	333.2
144.00	334.0
300.00	335.2
520.00	336.3
700.00	336.8
960.00	337.9
1440.00	339.4
2725.00	341.1



Tested By *TM* Date *1/7/05* Checked By *BF* Date *1-14-05*

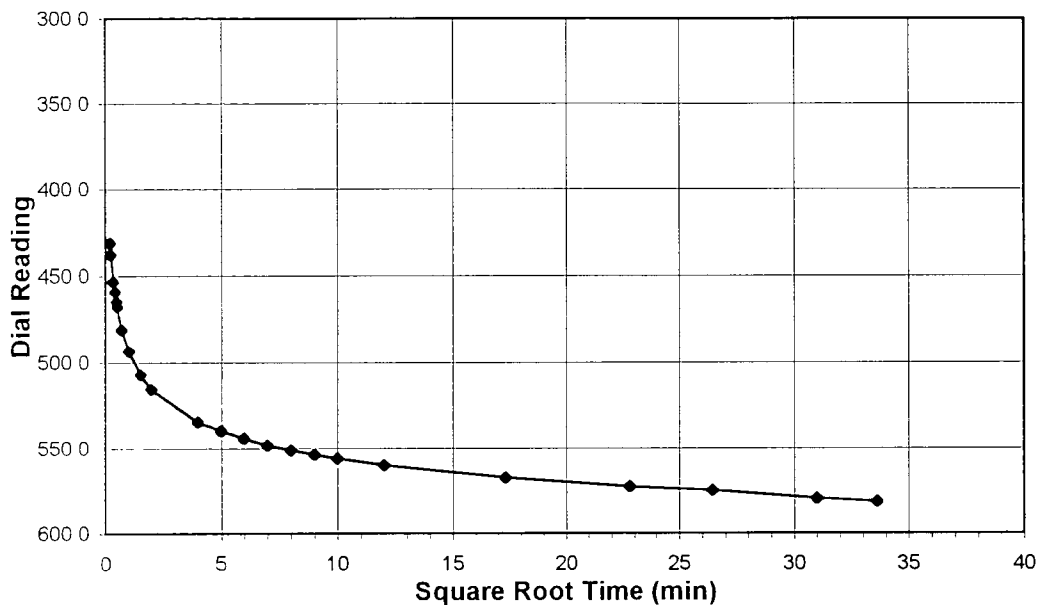


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

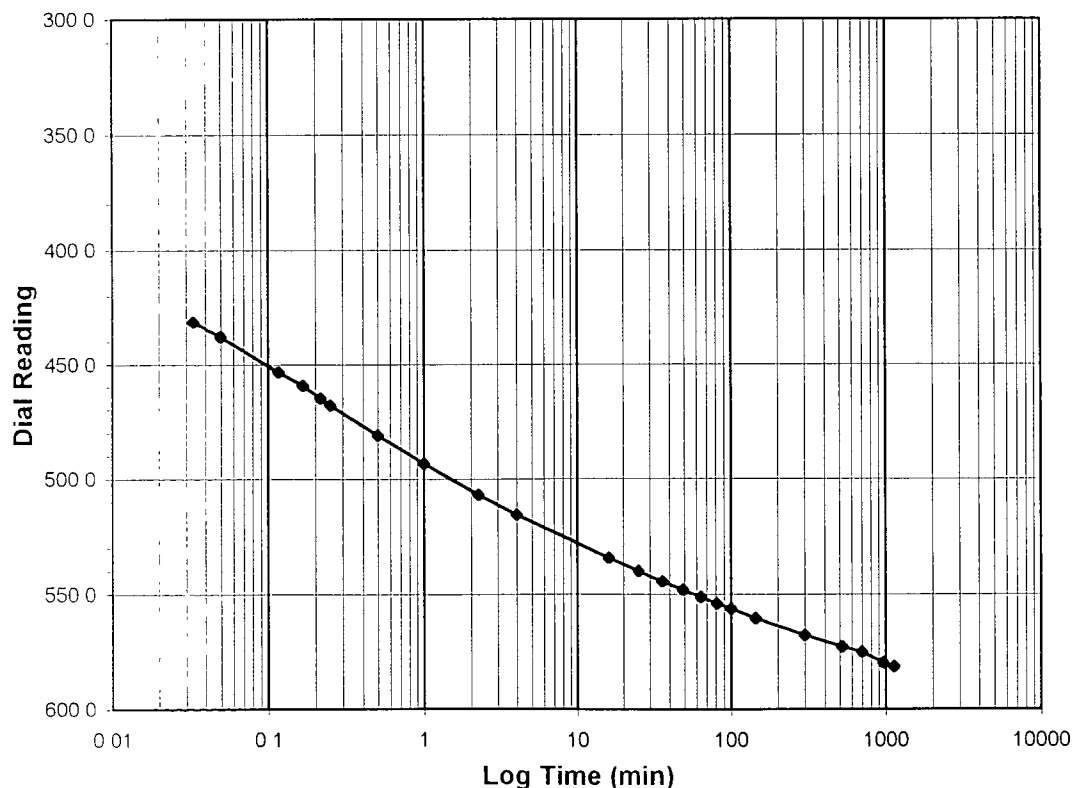
Client	BLASLAND, BOUCK, & LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-04	Sample No.	SS564-R-POST S/T (BOTTOM)
Lab ID	2004-221-04-06	Visual Description	BROWN STABILIZED MATERIAL

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	4.0-8.0
Final Reading (div)	581.4
Consolidometer No.	4
1 Division (in)	0.0001
Start Date	1/9/05
Start Time	14:16:27

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>341.1</b>
0.03	431.4
0.05	438.0
0.12	453.6
0.17	459.4
0.22	464.9
0.25	468.0
0.50	481.0
1.00	493.3
2.25	507.0
4.00	515.5
16.00	534.6
25.00	540.0
36.00	544.5
49.00	548.2
64.00	551.4
81.00	554.0
100.00	556.2
144.00	560.3
300.00	567.6
520.00	572.6
700.00	575.0
960.00	579.7
1130.00	581.4

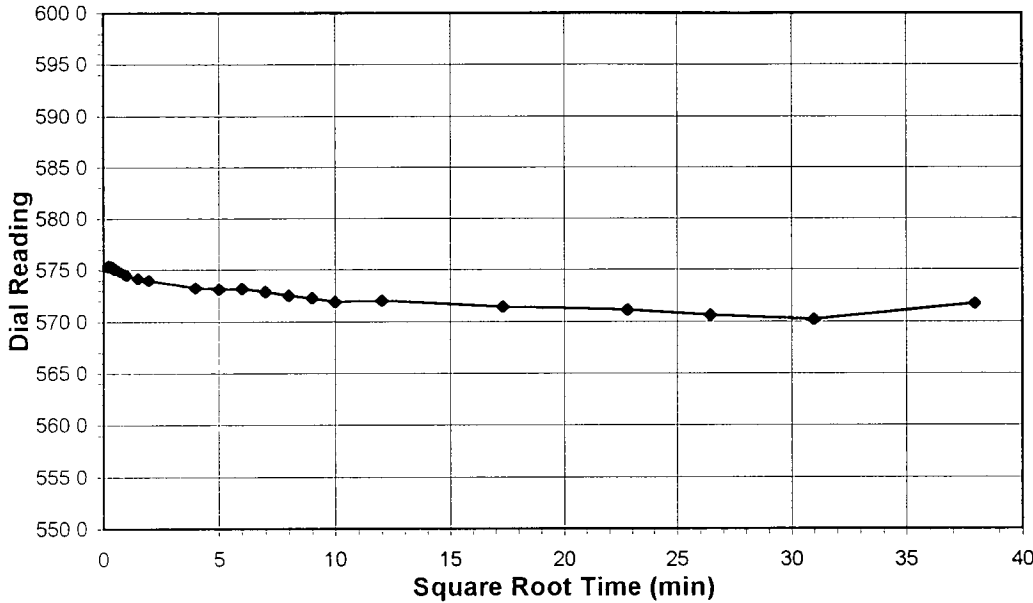


Tested By *TM* Date *1/9/05* Checked By *BF* Date *1-14-05*

**ONE DIMENSIONAL CONSOLIDATION**  
ASTM D 2435-96 (SOP-S24A)

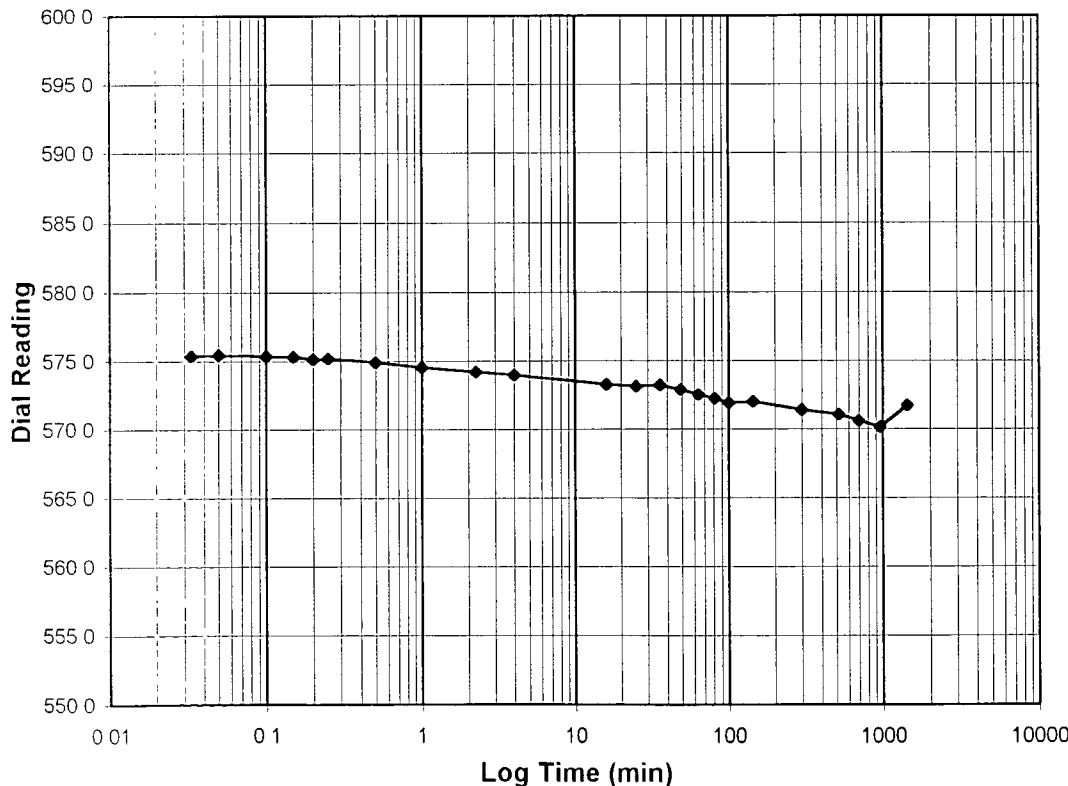
Client	BLASLAND, BOUCK, & LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-04	Sample No.	SS564-R-POST S/T (BOTTOM)
Lab ID	2004-221-04-06	Visual Description	BROWN STABILIZED MATERIAL

**Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED**



Test Load (tsf)	8.0-4.0
Final Reading (div)	575.4
Consolidometer No.	4
1 Division (in)	0.0001
Start Date	1/10/05
Start Time	9:35:42

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>581.4</b>
0.03	575.3
0.05	575.4
0.10	575.3
0.15	575.3
0.20	575.1
0.25	575.2
0.50	574.9
1.00	574.5
2.25	574.2
4.00	574.0
16.00	573.3
25.00	573.1
36.00	573.2
49.00	572.9
64.00	572.5
81.00	572.3
100.00	571.9
144.00	572.0
300.00	571.4
520.00	571.1
700.00	570.6
960.00	570.2
1440.00	571.7



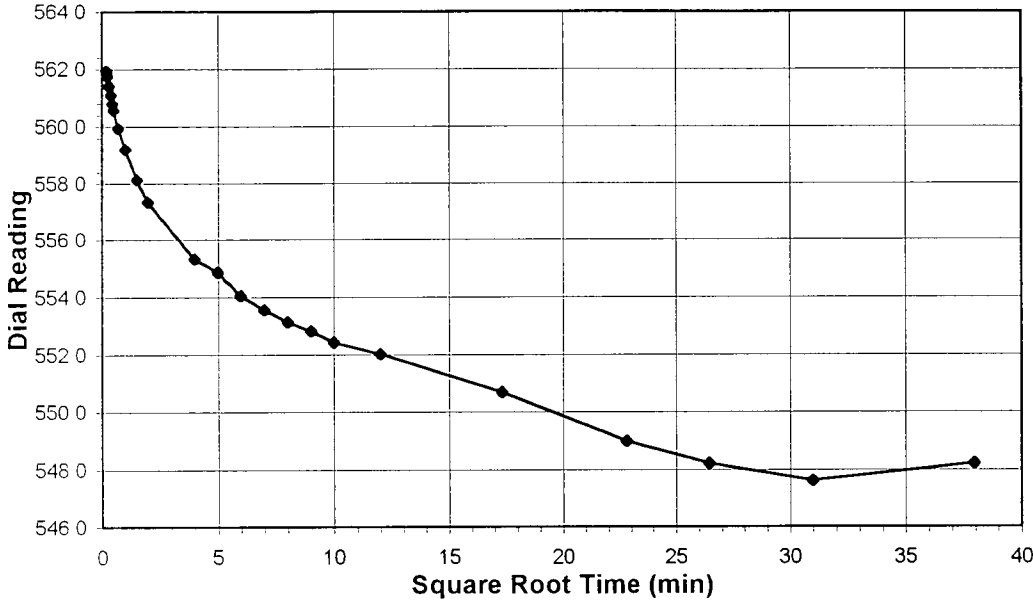
Tested By *TM* Date *1/10/05* Checked By *BF* Date *1-14-05*

**ONE DIMENSIONAL CONSOLIDATION**  
ASTM D 2435-96 (SOP-S24A)



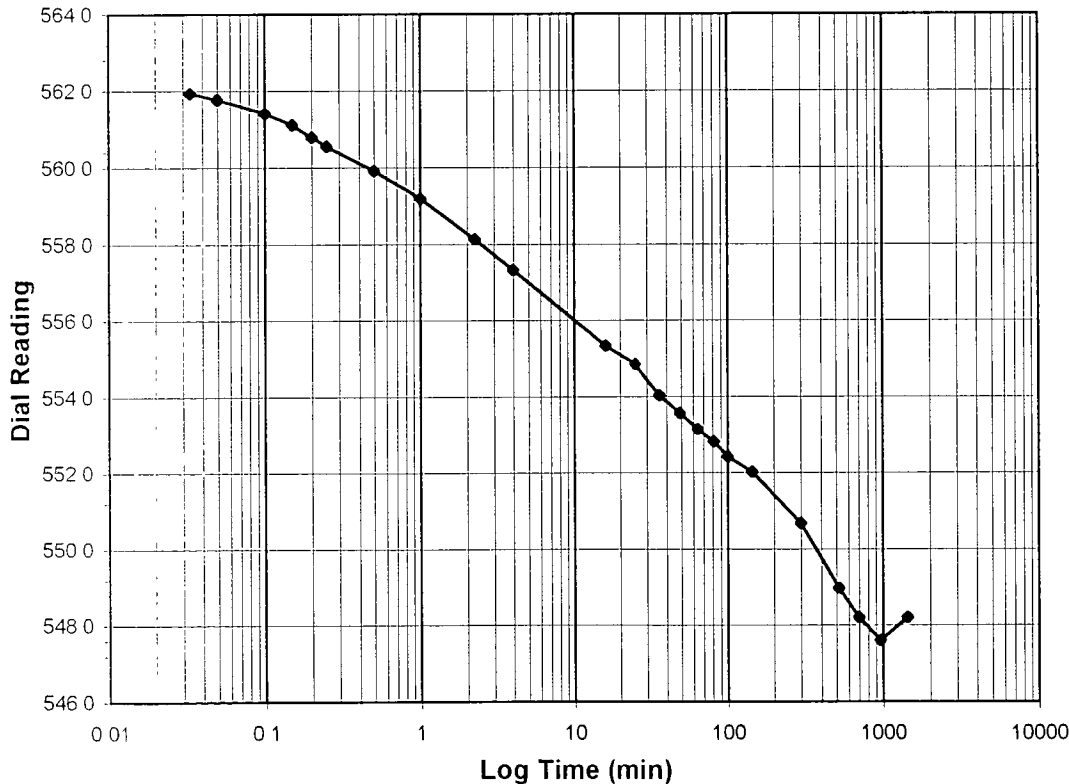
Client	BLASLAND, BOUCK, & LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-04	Sample No.	SS564-R-POST S/T (BOTTOM)
Lab ID	2004-221-04-06	Visual Description	BROWN STABILIZED MATERIAL

**Sample Conditions:** UNDISTURBED, INUNDATED AND DOUBLE DRAINED



<b>Test Load (tsf)</b>	<b>4.0-1.0</b>
<b>Final Reading (div)</b>	<b>547.6</b>
Consolidometer No.	4
1 Division (in)	0.0001
<b>Start Date</b>	<b>1/11/05</b>
<b>Start Time</b>	<b>10:09:41</b>

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>571.7</b>
0.03	561.9
0.05	561.8
0.10	561.4
0.15	561.1
0.20	560.8
0.25	560.6
0.50	559.9
1.00	559.2
2.25	558.1
4.00	557.3
16.00	555.3
25.00	554.9
36.00	554.0
49.00	553.6
64.00	553.1
81.00	552.8
100.00	552.4
144.00	552.0
300.00	550.7
520.00	549.0
700.00	548.2
960.00	547.6
1440.00	548.2



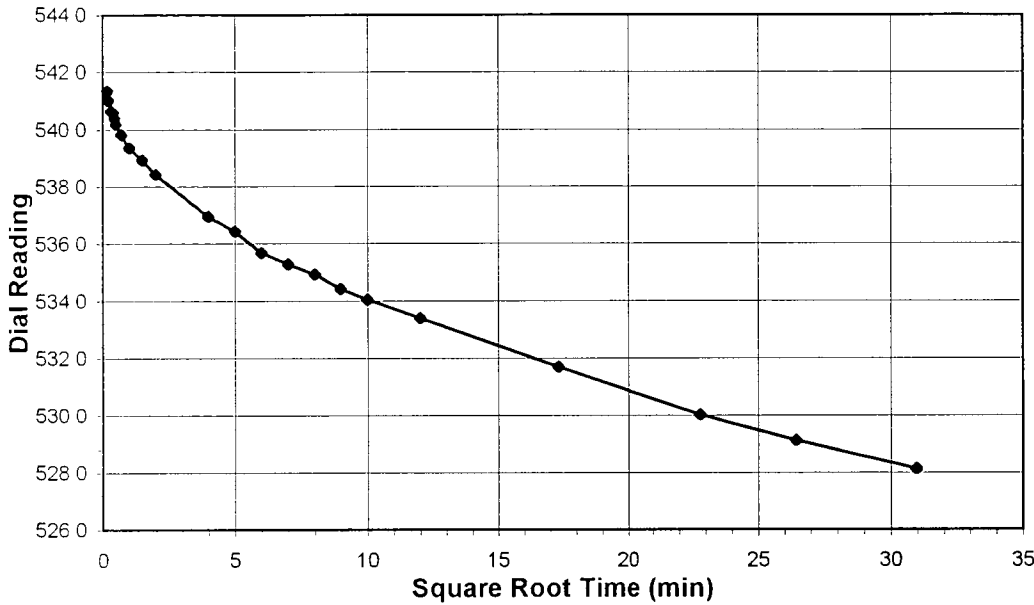
Tested By *TM* Date *1/11/05* Checked By *BF* Date *1-14-05*

# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

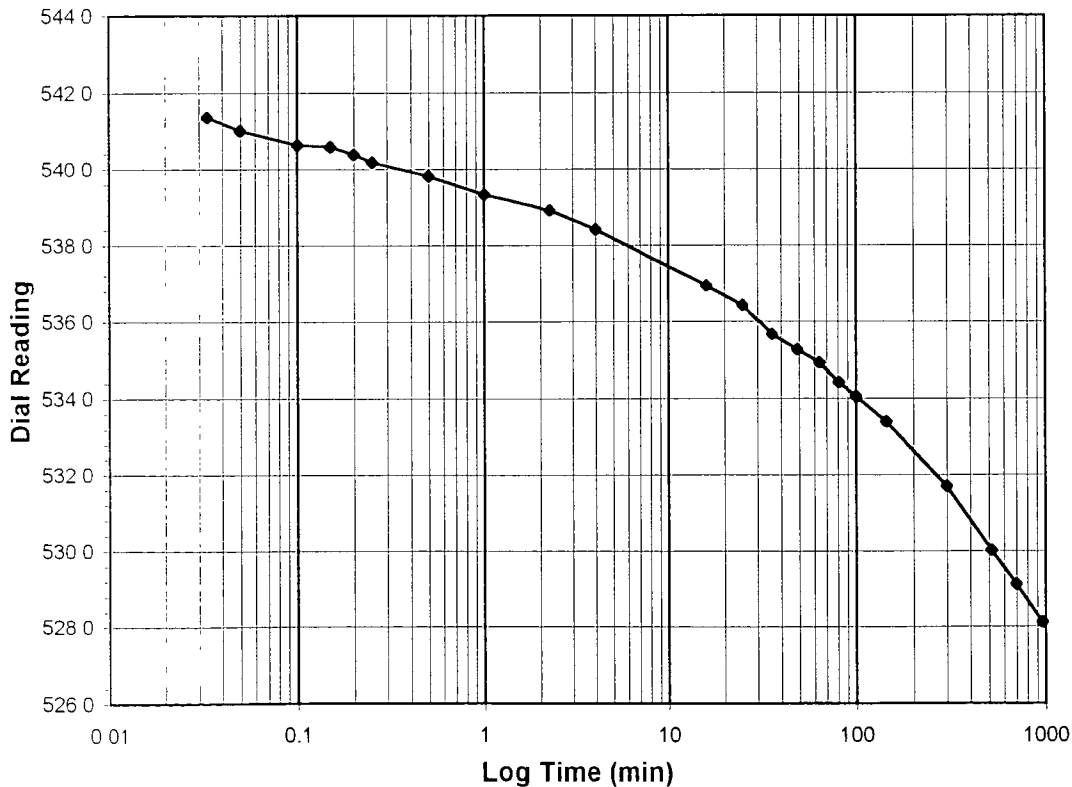
Client	BLASLAND, BOUCK, & LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-04	Sample No.	SS564-R-POST S/T (BOTTOM)
Lab ID	2004-221-04-06	Visual Description	BROWN STABILIZED MATERIAL

Sample Conditions: UNDISTURBED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	1.0-0.25
Final Reading (div)	528.1
Consolidometer No.	4
1 Division (in)	0.0001
Start Date	1/12/05
Start Time	11:14:09

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>548.2</b>
0.03	541.4
0.05	541.0
0.10	540.6
0.15	540.6
0.20	540.4
0.25	540.2
0.50	539.8
1.00	539.3
2.25	538.9
4.00	538.4
16.00	536.9
25.00	536.4
36.00	535.7
49.00	535.3
64.00	534.9
81.00	534.4
100.00	534.0
144.00	533.4
300.00	531.7
520.00	530.0
700.00	529.1
960.00	528.1



Tested By *TM* Date *1/12/05* Checked By *BF* Date *1-14-05*



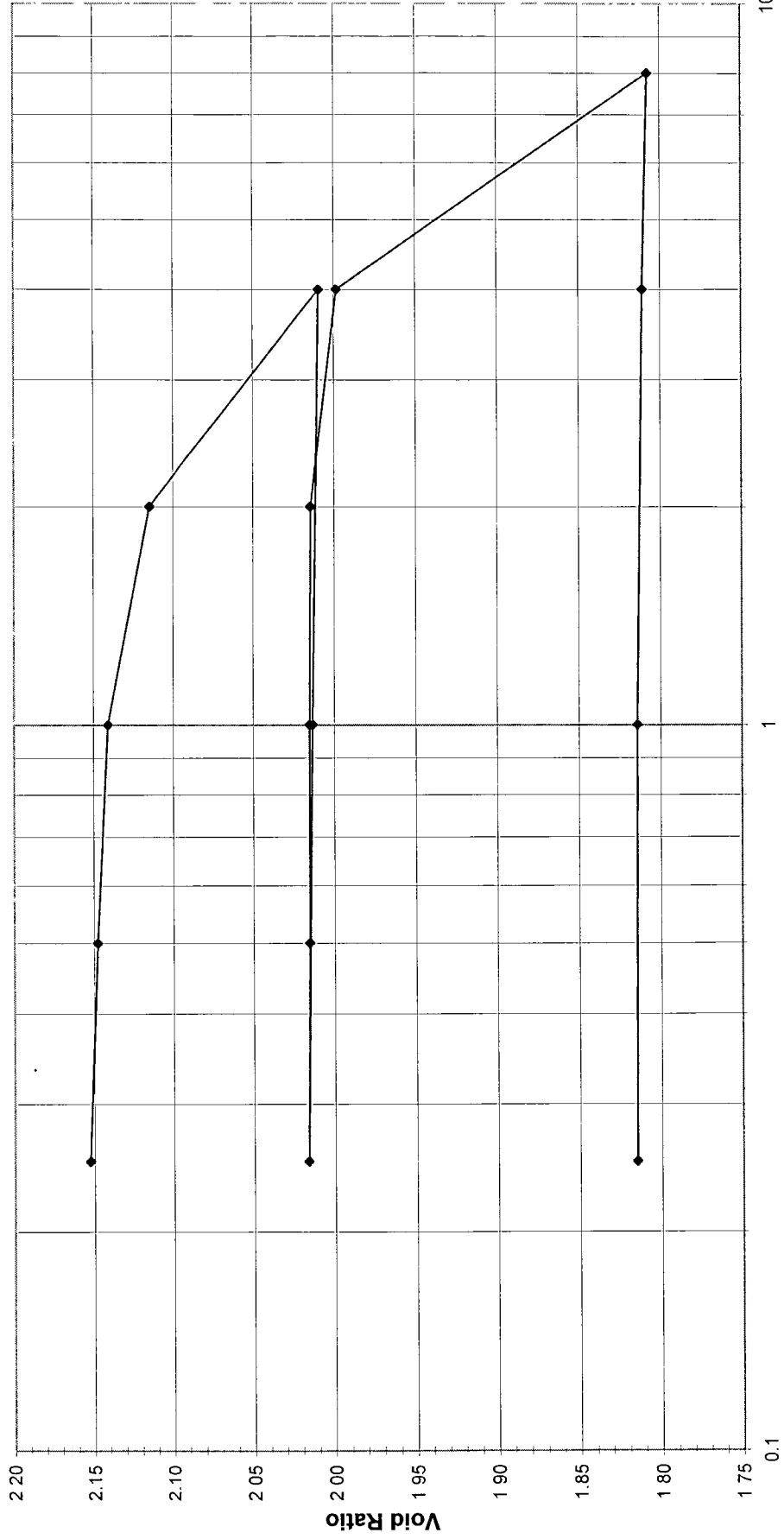


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 / AASHTO T216-03 (SOP-S24)

Client	BLASLAND, BOUCK, & LEE	Boring No.	9/22/04
Client Reference	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-04	Sample No.	SS57-R-POST S/T
Lab ID	2004-221-04-07	Visual Description	BROWNISH GRAY STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Log P (tsf)

Tested By TM Date 2/28/05 Approved By DB Date 3/23/05



# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 / AASHTO T216-03 (SOP-S24)

Client	BLASLAND, BOUCK, & LEE	Boring No.	9/22/04
Client Reference	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-04	Sample No.	SS57-R-POST S/T
Lab ID	2004-221-04-07	Visual Description	BROWNISH GRAY STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED

**Consolidometer No.** 2

**1 Division** = 0.0001 (in)

## Sample Properties

	Initial	Final
Water Content		
Tare Number	T-11	1399
Wt. Tare & VS (gm)	165.55	147.47
Wt. Tare & DS (gm)	136.88	105.05
Wt. Water (gm)	28.67	42.42
Wt. Tare (gm)	92.99	38.17
Wt. DS (gm)	43.89	66.88
Water Content (%)	65.32	63.43

## Sample Parameters

Sample Diameter (in)	2.5	2.5
Sample Height (in)	1	0.891
Sample Volume (cc)	80.44	71.66
Wt. Wet Sample + Ring (gm)	258.38	257.08
Wt. of Ring (gm)	144.76	144.76
Wt. of Wet Sample (gm)	113.62	112.32
Wet Density (pcf)	88.14	97.81
Wet Density (g/cc)	1.41	1.57
Water Content (%)	65.32	63.43
Wt. of Dry Sample (gm)	68.73	68.73
Dry Density (pcf)	53.31	59.85
Dry Density (g/cc)	0.85	0.96
Void Ratio	2.1602	1.8152
Saturation (%)	81.65	94.35
Specific Gravity	2.70	Assumed

## Test Data Summary

Applied Pressure (tsf)	Final Reading (div)	Machine Deflection (div)	Corrected Reading (div)	Height of Sample (mm)	Volume (cc)	Dry Density (g/cc)	Void Ratio
Seating	0	0	0	25.400	80.440	0.85438	2.16018
0.25	24.3	0.1	24.2	25.339	80.245	0.85645	2.15253
0.5	41.6	1.6	40.0	25.298	80.118	0.85781	2.14754
1	69.5	8.6	60.9	25.245	79.950	0.85962	2.14093
2	166.6	22.8	143.8	25.035	79.283	0.86685	2.11472
4	515.1	37.5	477.6	24.187	76.598	0.89723	2.00926
1	482.1	17.4	464.7	24.220	76.702	0.89602	2.01332
0.25	456.8	1.8	455.0	24.244	76.780	0.89511	2.01640
0.5	461.8	4.0	457.8	24.237	76.758	0.89537	2.01552
1	470.1	11.3	458.8	24.235	76.749	0.89547	2.01519
2	485.6	24.3	461.3	24.228	76.729	0.89570	2.01439
4	550.2	38.2	512.0	24.100	76.322	0.90048	1.99839
8	1169.2	53.2	1116.0	22.565	71.463	0.96171	1.80750
4	1151.9	46.4	1105.5	22.592	71.547	0.96057	1.81083
1	1119.0	24.6	1094.4	22.620	71.637	0.95937	1.81434
0.25	1095.2	3.4	1091.8	22.627	71.658	0.95909	1.81516

Tested By TM Date 2/28/05 Input Checked By GU Date 3/23/05

# ONE DIMENSIONAL CONSOLIDATION

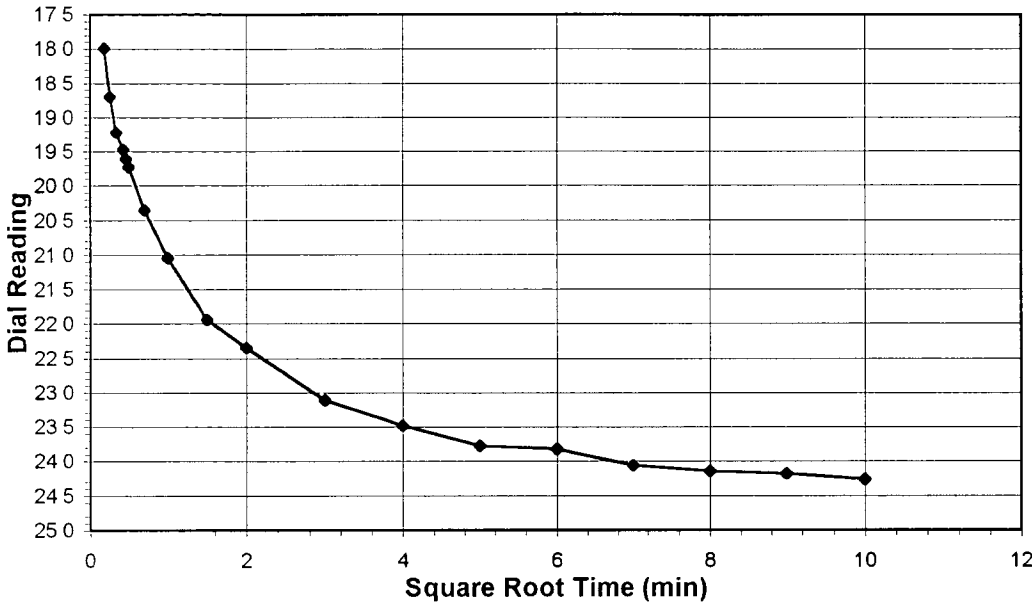
ASTM D 2435-90 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE  
 Client Project: GEHR TREATABILITY 204.302  
 Project No.: 2004-221-04  
 Lab ID: 2004-221-04-07

Boring No.:  
 Depth (ft):  
 Sample No.:  
 Visual Description:

9/22/04  
 NA  
 SS57-R-POST S/T  
 BROWNISH GRAY  
 STABILIZED MATERIAL

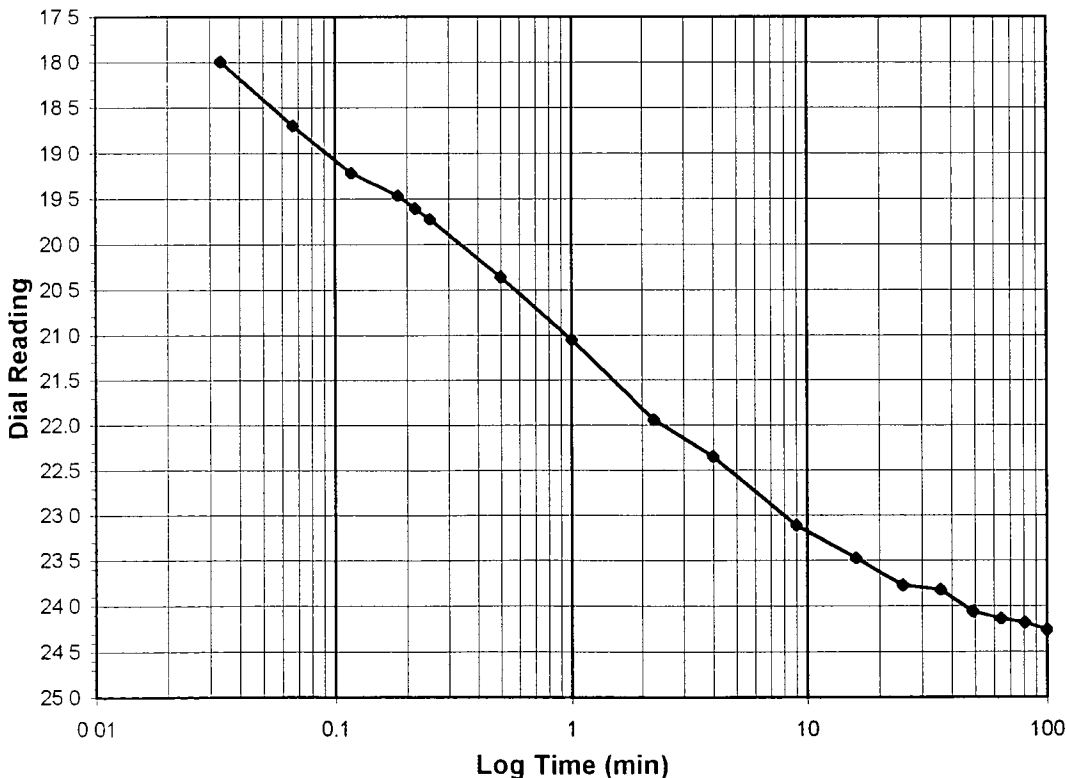
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 0-0.25  
 Final Reading (div) 24.3  
 Consolidometer No. 2  
 1 Division (in) 0.0001

Start Date 2/28/05  
 Start Time 11:15:28

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	0.0
0.03	18.0
0.07	18.7
0.12	19.2
0.18	19.5
0.22	19.6
0.25	19.7
0.50	20.4
1.00	21.1
2.25	21.9
4.00	22.4
9.02	23.1
16.00	23.5
25.00	23.8
36.00	23.8
49.00	24.1
64.02	24.1
81.00	24.2
100.00	24.3



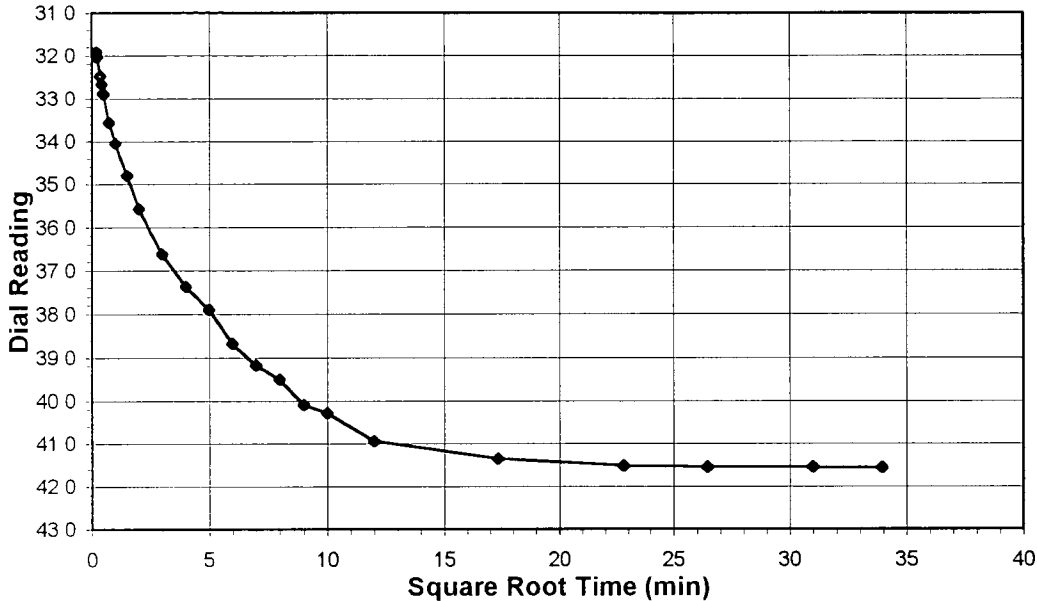
Tested By *TM* Date *2/28/05* Checked By *GO* Date *3/23/05*

# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-90 (SOP-S24A)

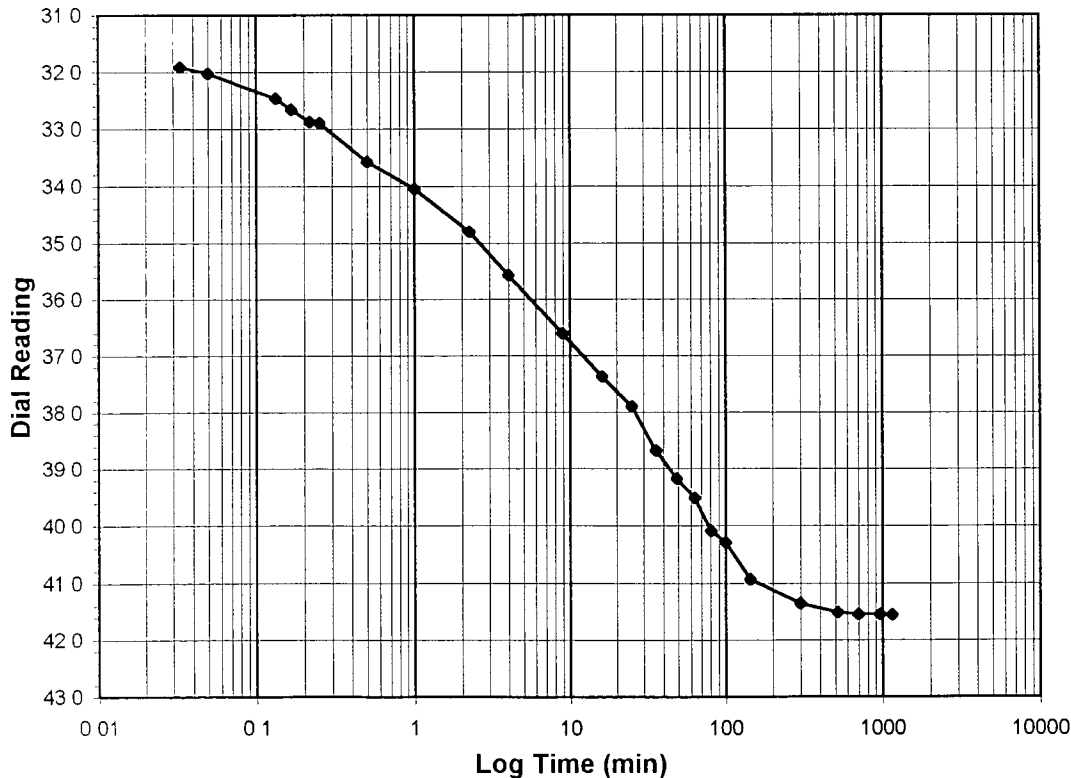
Client	BLASLAND, BOUCK, & LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-04	Sample No.	SS57-R-POST S/T
Lab ID	2004-221-04-07	Visual Description	BROWNISH GRAY STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.25-0.5
Final Reading (div)	41.6
Consolidometer No.	2
1 Division (in)	0.0001
Start Date	2/28/05
Start Time	13:03:45

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>24.3</b>
0.03	31.9
0.05	32.0
0.13	32.5
0.17	32.7
0.22	32.9
0.25	32.9
0.50	33.6
1.00	34.1
2.25	34.8
4.00	35.6
8.89	36.6
16.00	37.4
25.00	37.9
36.00	38.7
49.00	39.2
64.00	39.5
81.00	40.1
100.00	40.3
144.00	40.9
300.00	41.4
520.00	41.5
700.00	41.5
960.00	41.5
1152.78	41.6



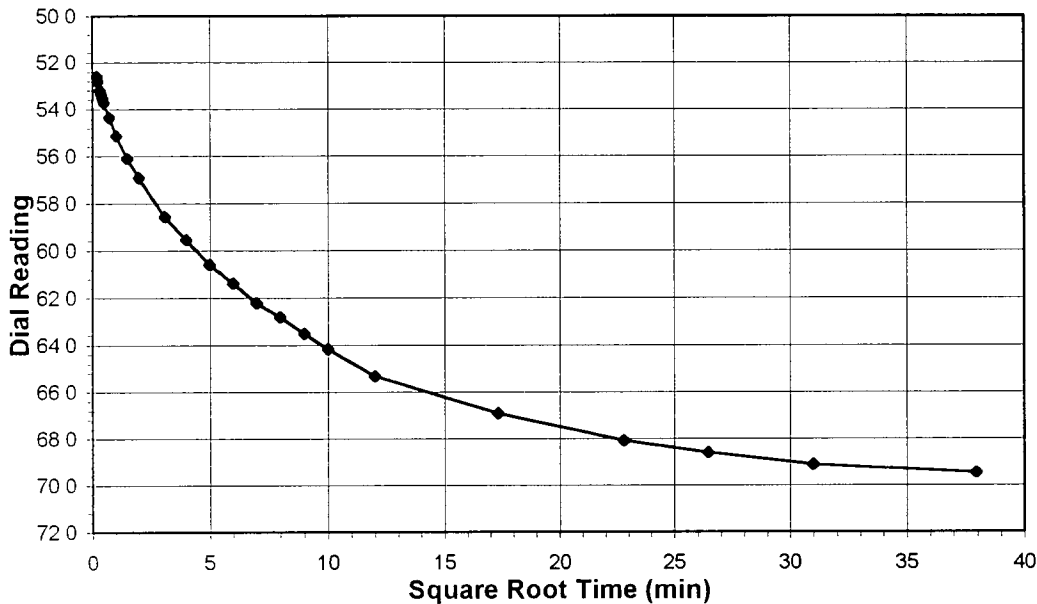
Tested By *TM* Date *2/28/05* Checked By *GU* Date *3/23/05*

# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-90 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-04	Sample No.	SS57-R-POST S/T
Lab ID	2004-221-04-07	Visual Description	BROWNISH GRAY STABILIZED MATERIAL

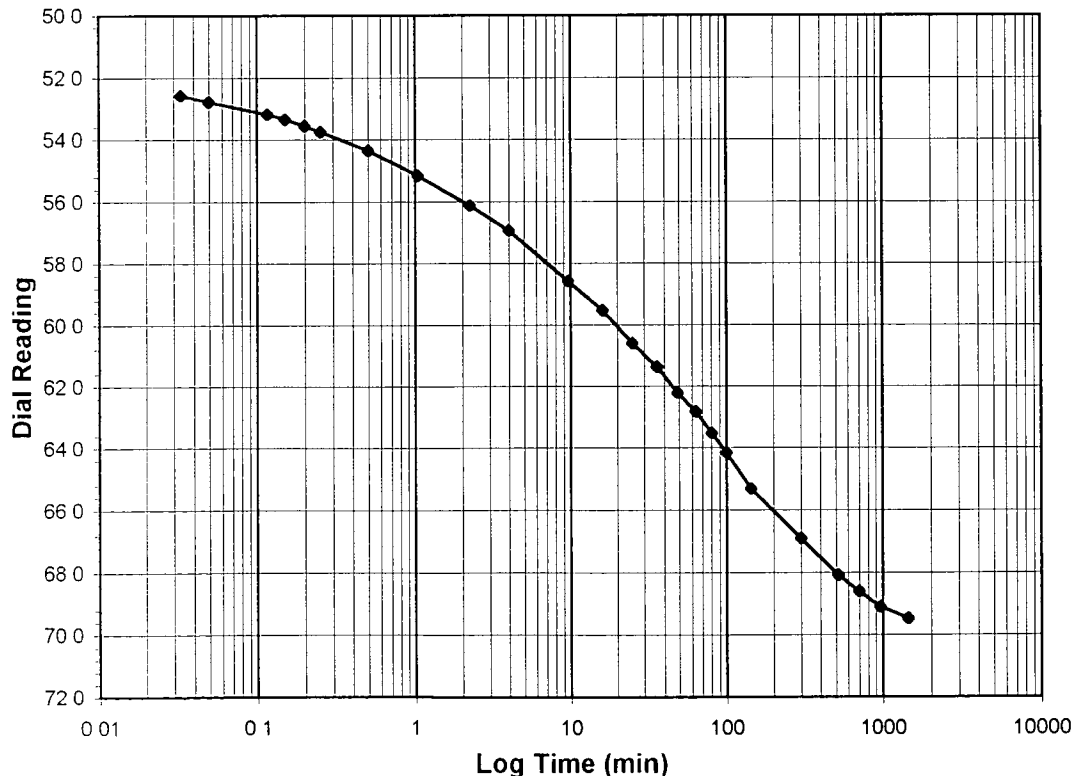
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.5-1.0
Final Reading (div)	69.5
Consolidometer No.	2
1 Division (in)	0.0001

Start Date	3/1/05
Start Time	10:37:02

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>41.6</b>
0.03	52.6
0.05	52.8
0.12	53.2
0.15	53.3
0.20	53.6
0.25	53.7
0.50	54.3
1.03	55.1
2.25	56.1
4.00	56.9
9.67	58.6
16.00	59.5
25.00	60.6
36.00	61.4
49.00	62.2
64.00	62.8
81.00	63.5
100.00	64.2
144.00	65.3
300.00	66.9
520.00	68.1
700.00	68.6
960.00	69.1
1440.00	69.5



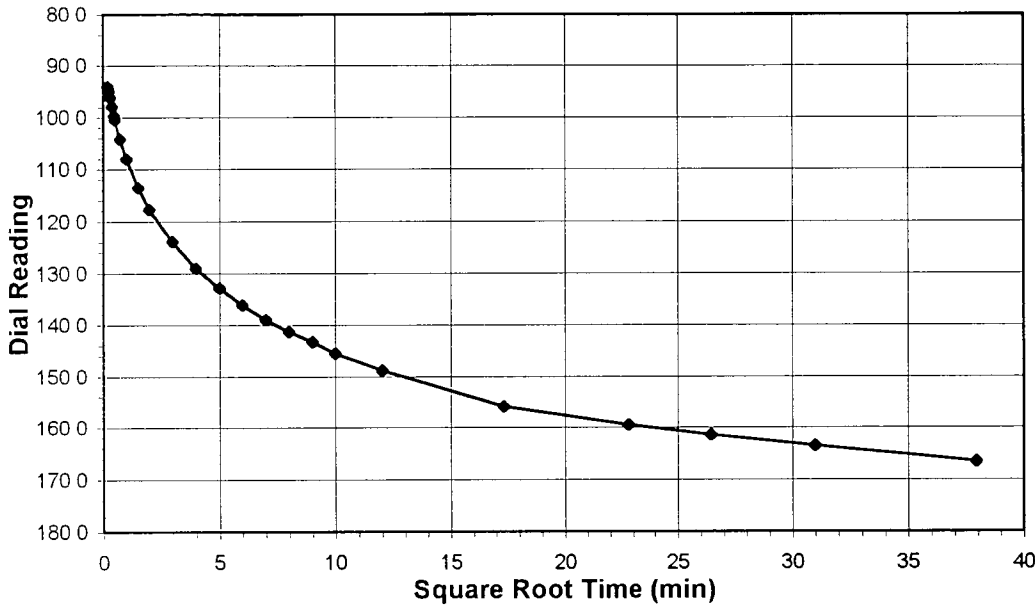
Tested By *TM* Date *3/1/05* Checked By *GU* Date *3/23/05*

# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-90 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-04	Sample No.	SS57-R-POST S/T
Lab ID	2004-221-04-07	Visual Description	BROWNISH GRAY STABILIZED MATERIAL

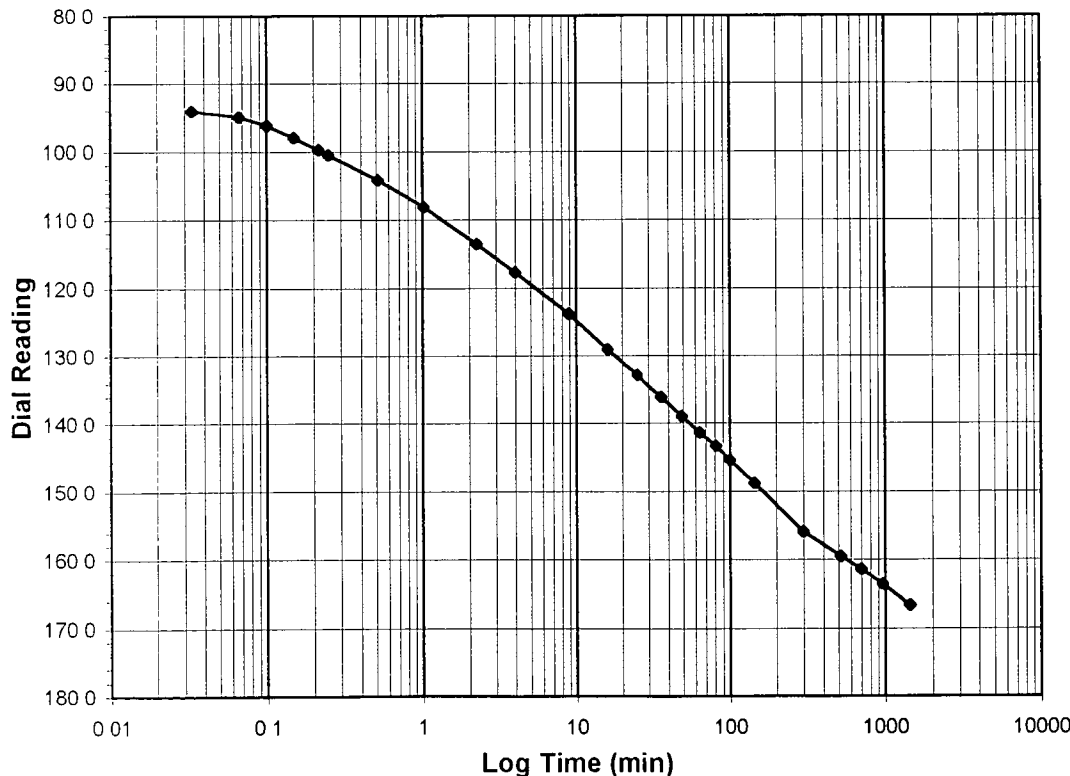
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	1.0-2.0
Final Reading (div)	166.6
Consolidometer No.	2
1 Division (in)	0.0001

Start Date	3/2/05
Start Time	11:21:06

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>69.5</b>
0.03	94.1
0.07	95.0
0.10	96.2
0.15	98.0
0.22	99.7
0.25	100.5
0.52	104.2
1.02	108.1
2.25	113.6
4.00	117.7
8.89	123.8
16.00	129.0
25.00	132.8
36.00	136.1
49.00	139.0
64.00	141.3
81.00	143.3
100.00	145.5
144.00	148.8
300.00	156.0
520.00	159.5
700.00	161.4
960.00	163.5
1440.00	166.6



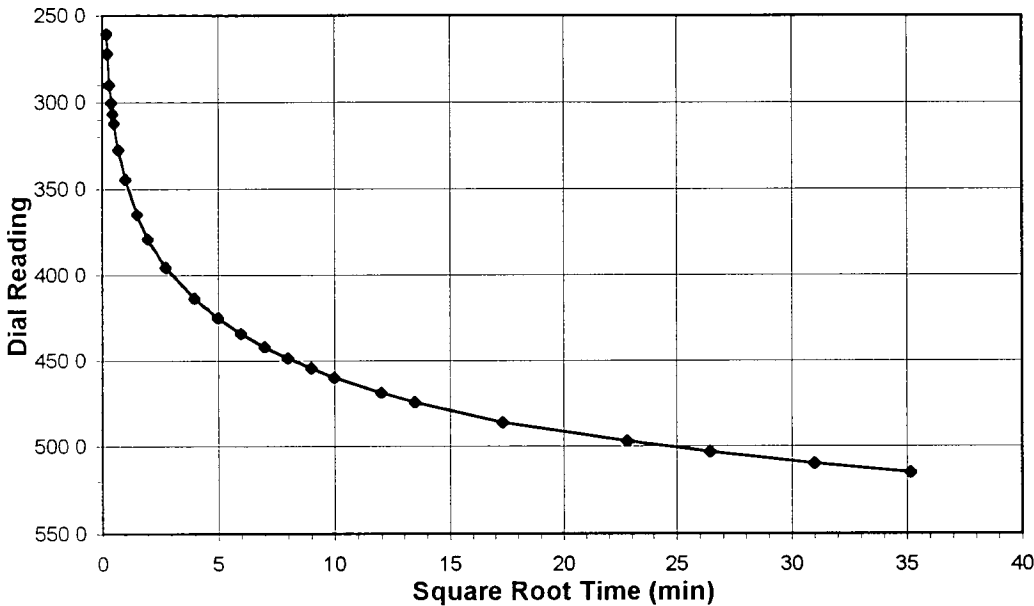
Tested By **TM** Date **3/2/05** Checked By **GU** Date **3/23/05**

# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-90 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-04	Sample No.	SS57-R-POST S/T
Lab ID	2004-221-04-07	Visual Description	BROWNISH GRAY STABILIZED MATERIAL

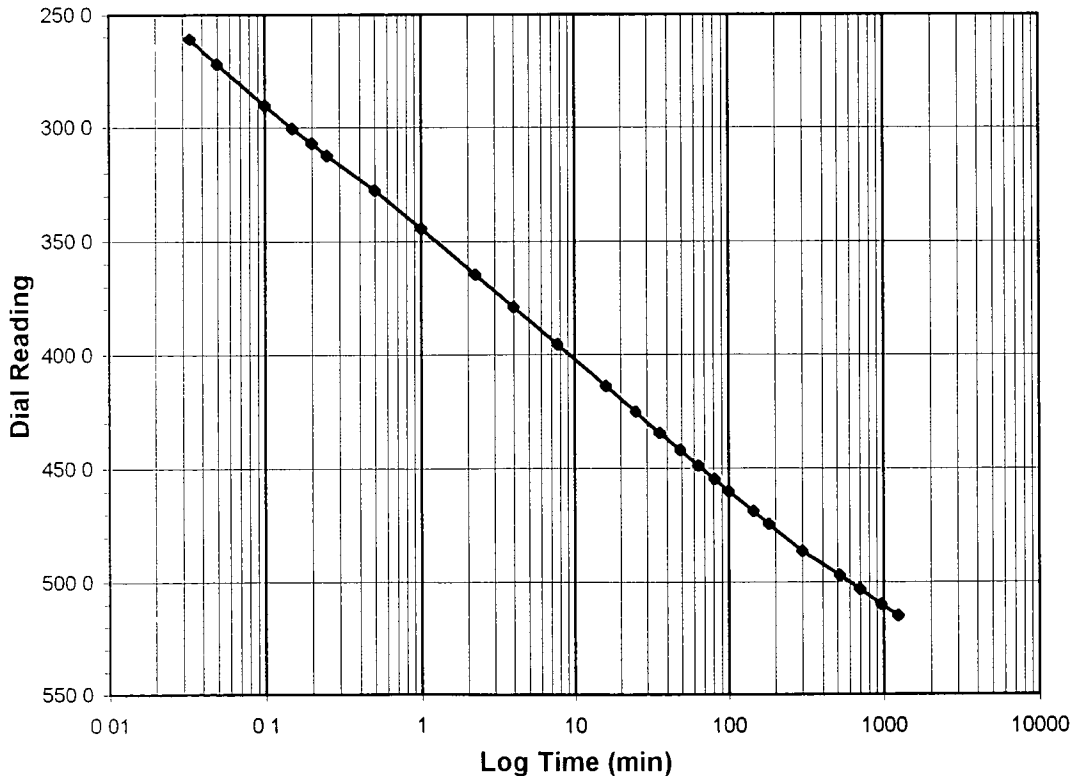
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



<b>Test Load (tsf)</b>	<b>2.0-4.0</b>
<b>Final Reading (div)</b>	<b>515.1</b>
Consolidometer No.	2
1 Division (in)	0.0001

Start Date	3/3/05
Start Time	13:04:13

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>166.6</b>
0.03	260.8
0.05	272.1
0.10	290.2
0.15	300.5
0.20	306.9
0.25	312.4
0.50	327.5
1.00	344.4
2.25	364.7
4.00	379.1
7.75	395.6
16.00	413.8
25.00	425.1
36.00	434.3
49.00	442.1
64.00	448.7
81.00	454.7
100.00	460.1
144.00	468.9
180.95	474.4
300.00	486.3
520.00	497.1
700.00	503.2
960.00	509.9
1236.13	515.1



Tested By *TM* Date *3/3/05* Checked By *GU* Date *3/23/05*

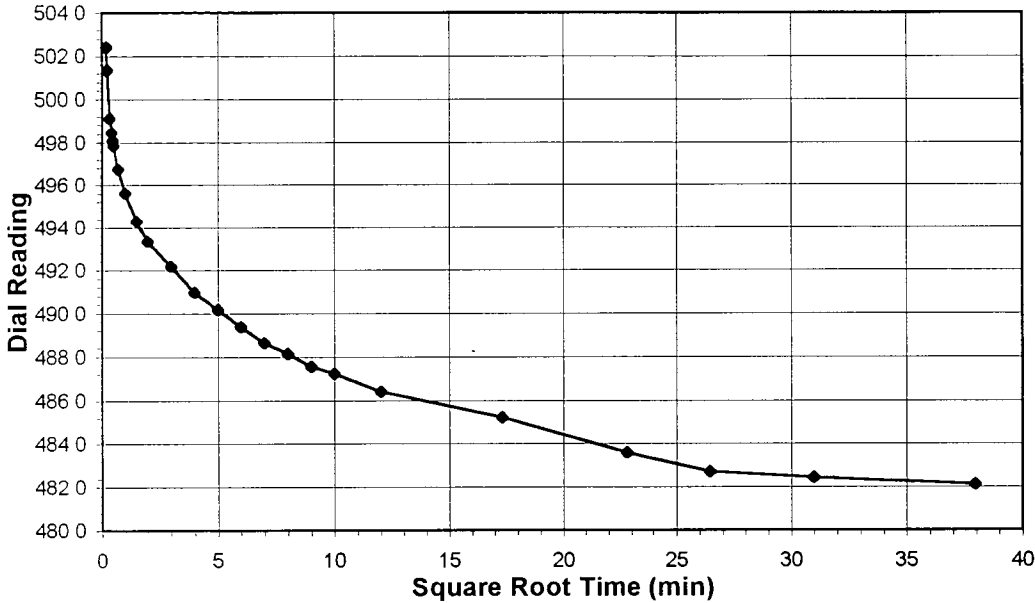


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-90 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-04	Sample No.	SS57-R-POST S/T
Lab ID	2004-221-04-07	Visual Description	BROWNISH GRAY STABILIZED MATERIAL

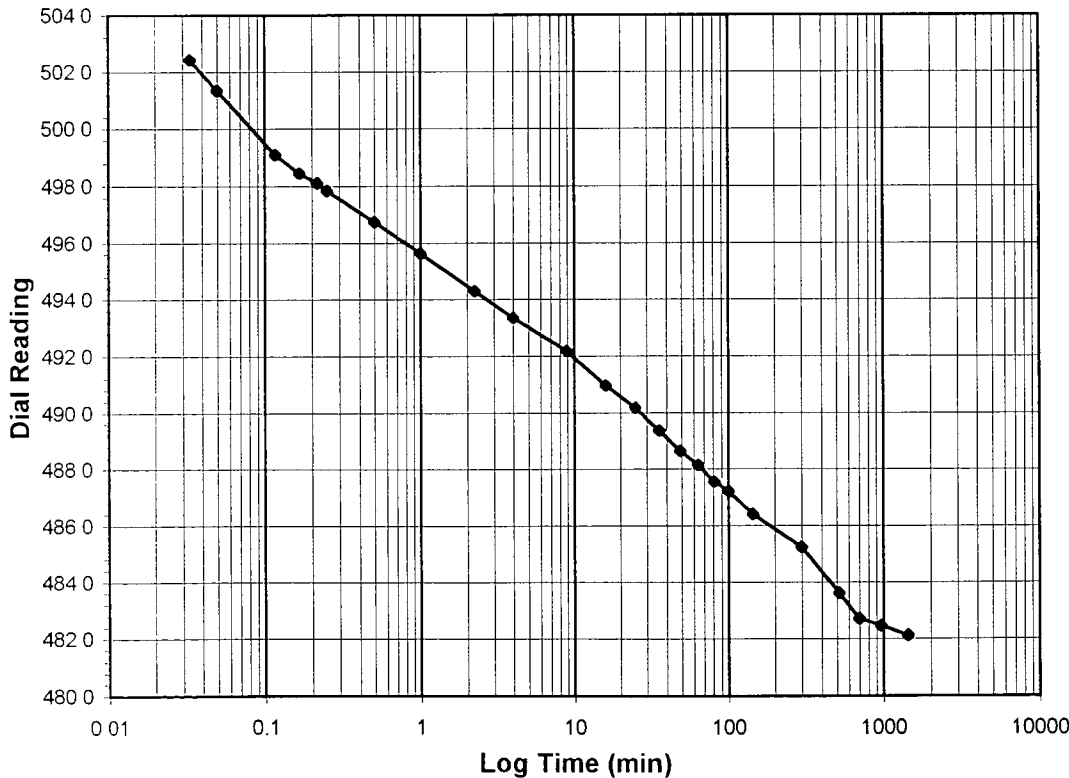
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	4.0-1.0
Final Reading (div)	482.1
Consolidometer No.	2
1 Division (in)	0.0001

Start Date	3/4/05
Start Time	9:46:35

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>515.1</b>
0.03	502.4
0.05	501.3
0.12	499.1
0.17	498.5
0.22	498.1
0.25	497.9
0.50	496.7
1.00	495.6
2.25	494.3
4.00	493.4
8.89	492.2
16.00	491.0
25.00	490.2
36.00	489.4
49.00	488.7
64.00	488.1
81.00	487.6
100.00	487.2
144.00	486.4
300.00	485.2
520.00	483.6
700.00	482.7
960.00	482.5
1440.00	482.1



Tested By *TM* Date *3/4/05* Checked By *GU* Date *3/23/05*

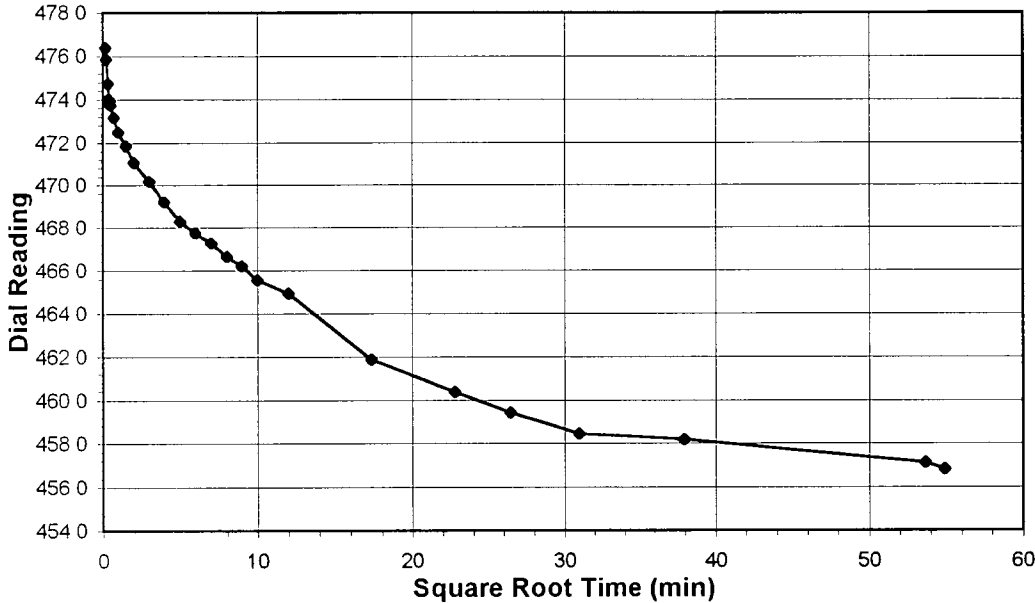


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-90 (SOP-S24A)

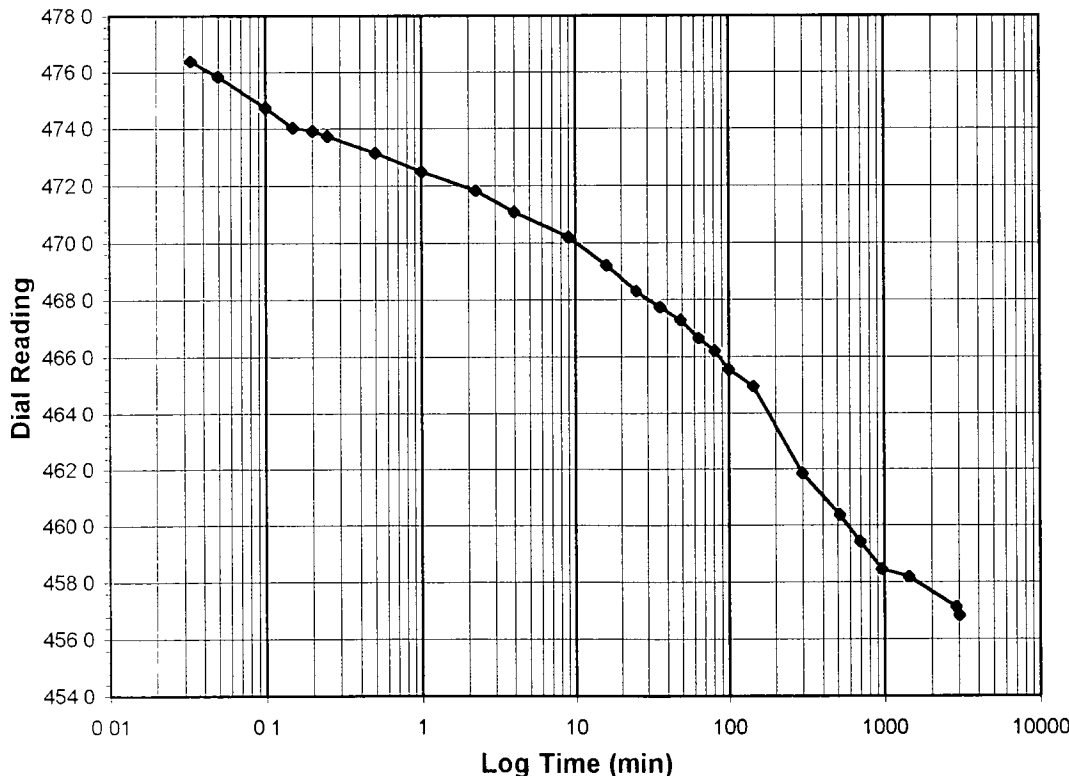
Client	BLASLAND, BOUCK, & LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-04	Sample No.	SS57-R-POST S/T
Lab ID	2004-221-04-07	Visual Description	BROWNISH GRAY STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	1.0-0.25
Final Reading (div)	456.8
Consolidometer No.	2
1 Division (in)	0.0001
Start Date	3/5/05
Start Time	10:35:09

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>482.1</b>
0.03	476.4
0.05	475.8
0.10	474.7
0.15	474.0
0.20	473.9
0.25	473.7
0.50	473.2
1.00	472.5
2.25	471.8
4.00	471.1
9.02	470.2
16.00	469.2
25.00	468.3
36.00	467.7
49.00	467.3
64.00	466.7
81.00	466.2
100.00	465.6
144.00	464.9
300.00	461.9
520.00	460.4
700.00	459.4
960.00	458.4
1440.00	458.2
2880.00	457.1
3014.98	456.8



Tested By TM Date 3/5/05 Checked By GU Date 3/23/05



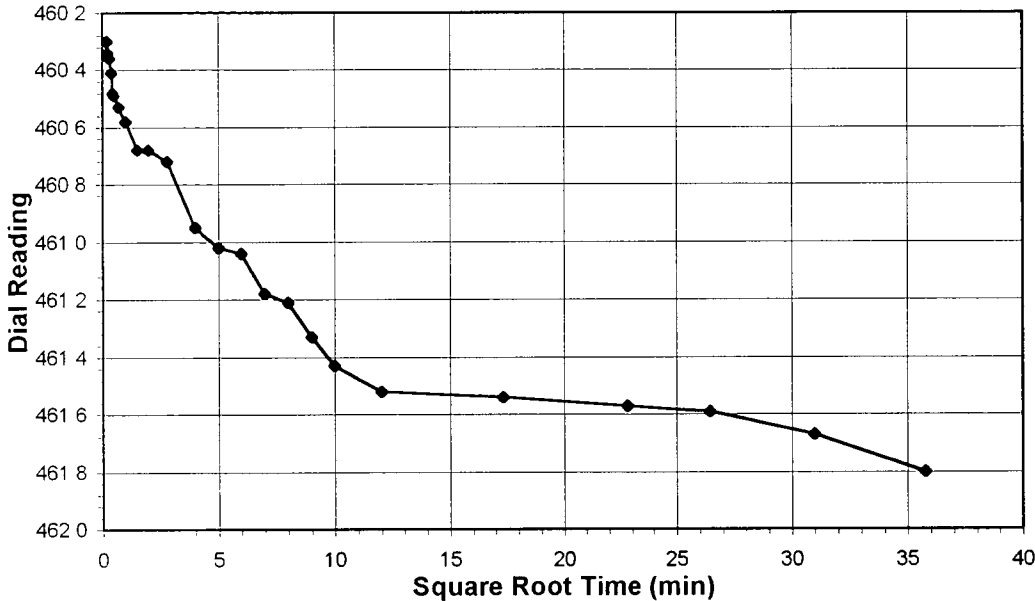
# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-90 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE  
 Client Project: GEHR TREATABILITY 204.302  
 Project No.: 2004-221-04  
 Lab ID: 2004-221-04-07

Boring No.: 9/22/04  
 Depth (ft): NA  
 Sample No.: SS57-R-POST S/T  
 Visual Description: BROWNISH GRAY STABILIZED MATERIAL

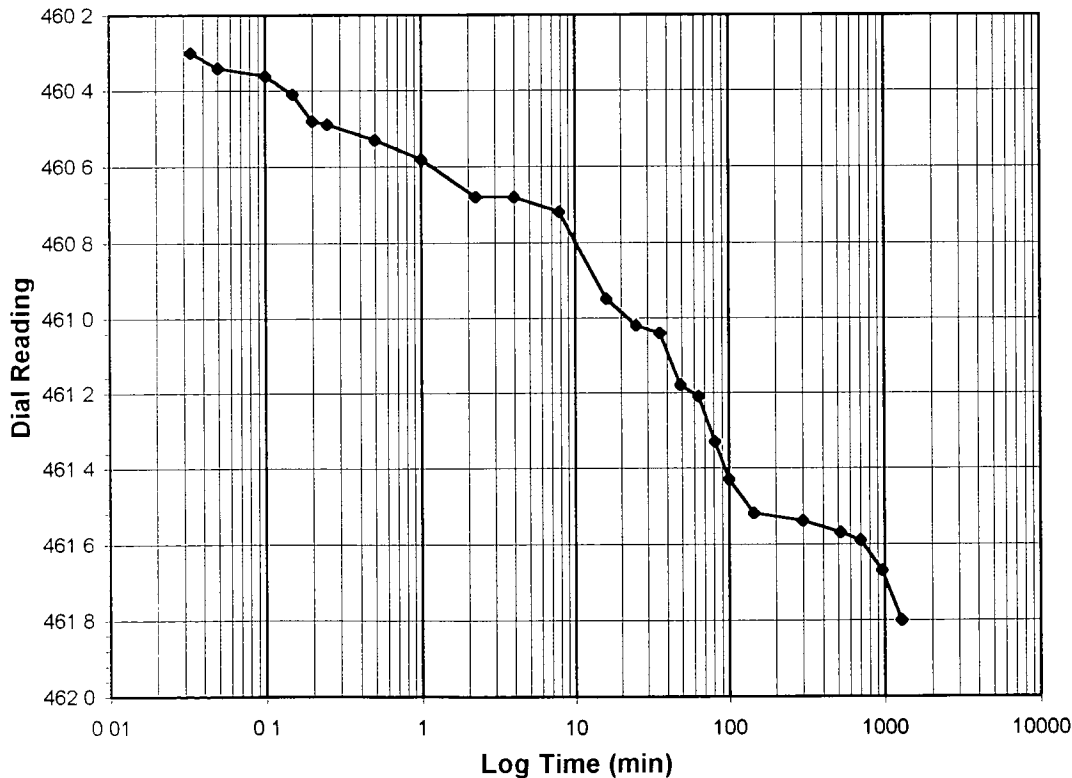
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf): 0.25-0.5  
 Final Reading (div): 461.8  
 Consolidometer No.: 2  
 1 Division (in): 0.0001

Start Date: 3/7/05  
 Start Time: 12:56:11

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>456.8</b>
0.03	460.3
0.05	460.3
0.10	460.4
0.15	460.4
0.20	460.5
0.25	460.5
0.50	460.5
1.00	460.6
2.25	460.7
4.00	460.7
7.89	460.7
16.00	461.0
25.00	461.0
36.02	461.0
49.00	461.2
64.00	461.2
81.00	461.3
100.00	461.4
144.00	461.5
300.00	461.5
520.00	461.6
700.02	461.6
960.00	461.7
1279.03	461.8



Tested By: TM Date: 3/7/05 Checked By: GO Date: 3/23/05

# ONE DIMENSIONAL CONSOLIDATION

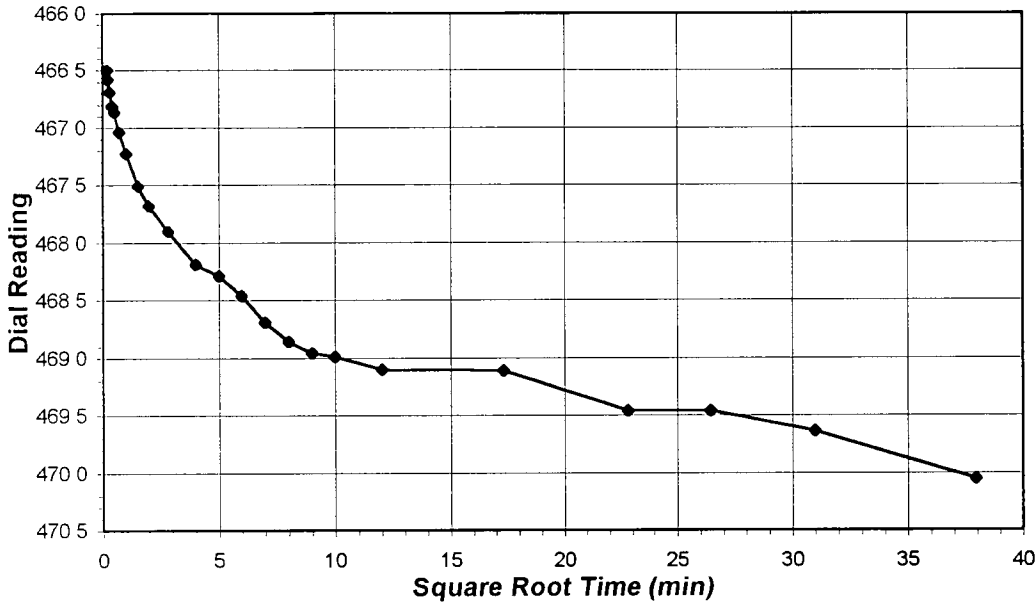
ASTM D 2435-90 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE  
 Client Project: GEHR TREATABILITY 204.302  
 Project No.: 2004-221-04  
 Lab ID: 2004-221-04-07

Boring No.:  
 Depth (ft):  
 Sample No.:  
 Visual Description:

9/22/04  
 NA  
 SS57-R-POST S/T  
 BROWNISH GRAY  
 STABILIZED MATERIAL

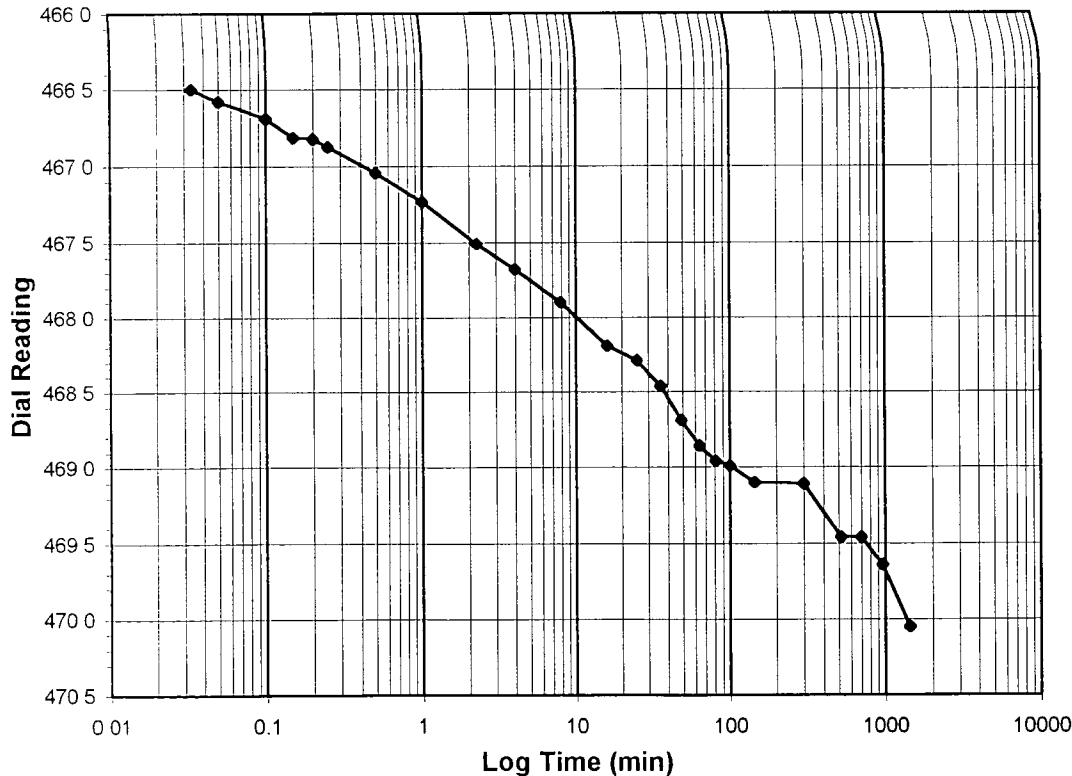
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 0.5-1.0  
 Final Reading (div) 470.1  
 Consolidometer No. 2  
 1 Division (in) 0.0001

Start Date 3/8/05  
 Start Time 10:21:53

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>461.8</b>
0.03	466.5
0.05	466.6
0.10	466.7
0.15	466.8
0.20	466.8
0.25	466.9
0.50	467.0
1.00	467.2
2.25	467.5
4.00	467.7
7.98	467.9
16.00	468.2
25.00	468.3
36.00	468.5
49.00	468.7
64.00	468.9
81.00	469.0
100.00	469.0
144.00	469.1
300.02	469.1
520.00	469.5
700.00	469.5
960.00	469.6
1440.00	470.1



Tested By TM Date 3/8/05 Checked By GU Date 3/23/05

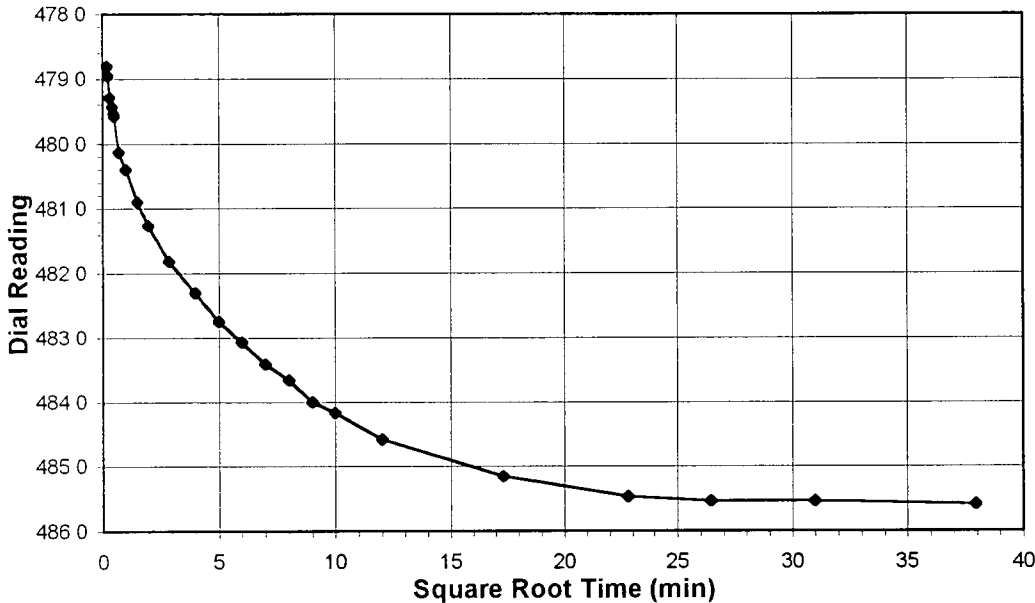
# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-90 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE  
 Client Project: GEHR TREATABILITY 204.302  
 Project No.: 2004-221-04  
 Lab ID: 2004-221-04-07

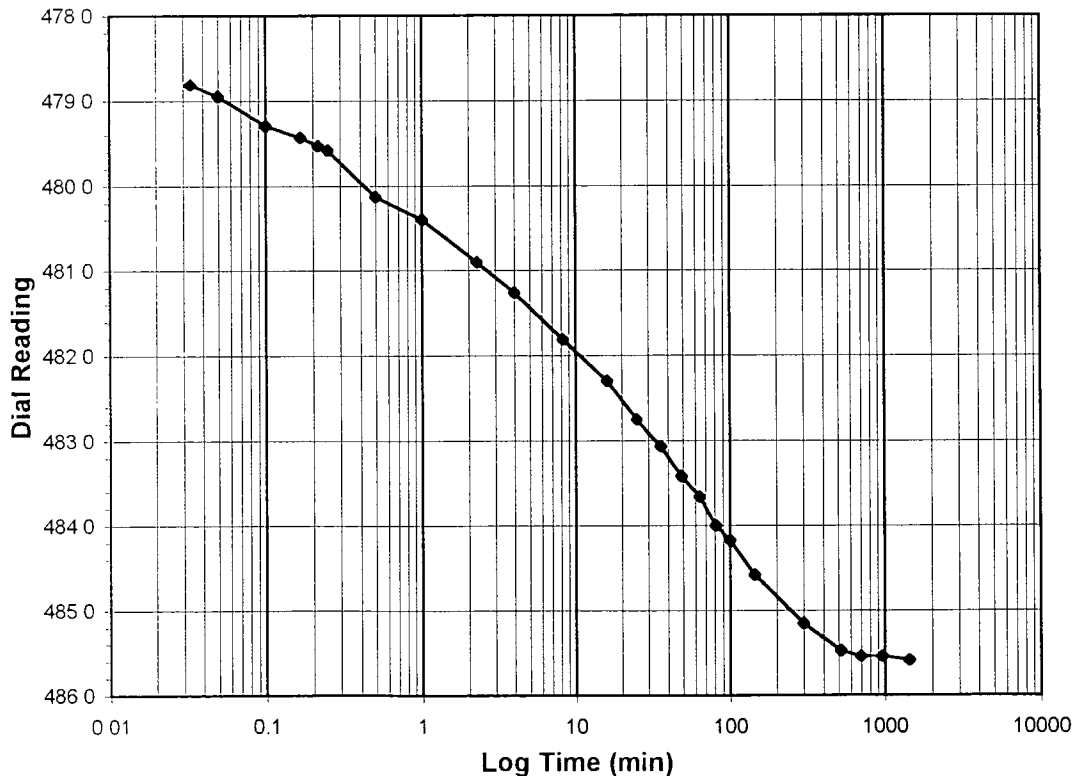
Boring No.: 9/22/04  
 Depth (ft): NA  
 Sample No.: SS57-R-POST S/T  
 Visual Description: BROWNISH GRAY STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf): 1.0-2.0  
 Final Reading (div): 485.6  
 Consolidometer No.: 2  
 1 Division (in): 0.0001  
 Start Date: 3/9/05  
 Start Time: 10:35:42

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>470.1</b>
0.03	478.8
0.05	479.0
0.10	479.3
0.17	479.4
0.22	479.5
0.25	479.6
0.50	480.1
1.00	480.4
2.27	480.9
4.00	481.3
8.25	481.8
16.00	482.3
25.00	482.8
36.00	483.1
49.00	483.4
64.00	483.7
81.00	484.0
100.00	484.2
144.00	484.6
300.00	485.2
520.00	485.5
700.00	485.5
960.00	485.5
1440.00	485.6



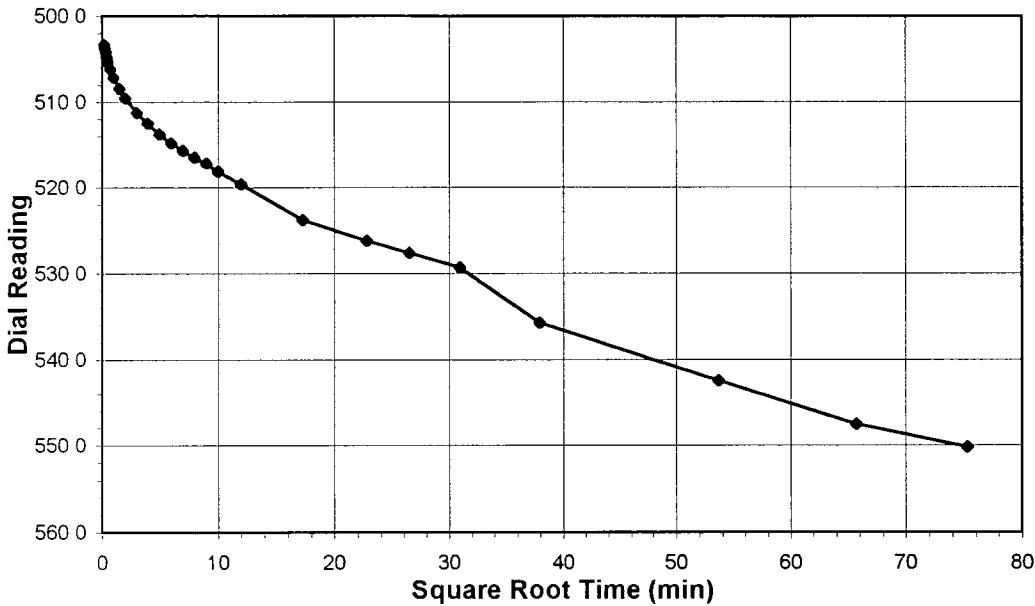
Tested By: TM Date: 3/9/05 Checked By: GU Date: 3/23/05

# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-90 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-04	Sample No.	SS57-R-POST S/T
Lab ID	2004-221-04-07	Visual Description	BROWNISH GRAY STABILIZED MATERIAL

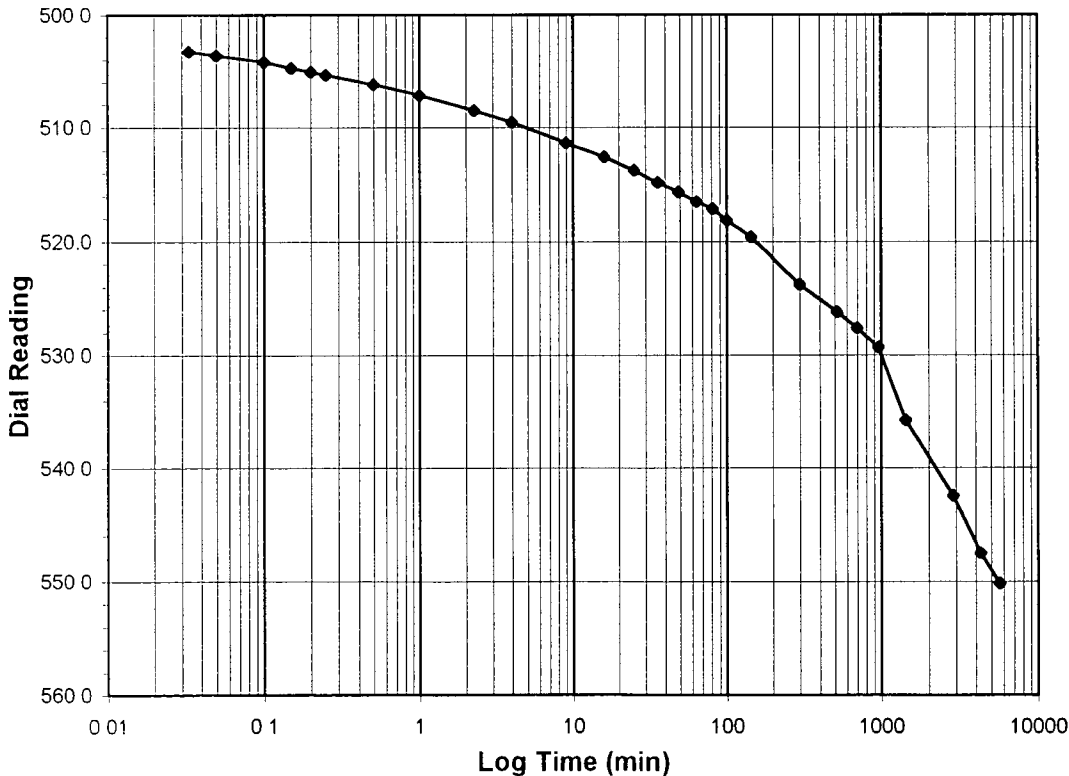
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	2.0-4.0
Final Reading (div)	550.2
Consolidometer No.	2
1 Division (in)	0.0001

Start Date	3/10/05
Start Time	10:53:47

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>485.6</b>
0.03	503.3
0.05	503.6
0.10	504.2
0.15	504.8
0.20	505.1
0.25	505.4
0.50	506.2
1.00	507.1
2.27	508.5
4.00	509.6
9.02	511.3
16.00	512.6
25.00	513.8
36.00	514.8
49.00	515.7
64.00	516.5
81.00	517.2
100.00	518.2
144.00	519.6
300.00	523.8
520.00	526.2
700.00	527.6
960.00	529.3
1440.00	535.8
2880.00	542.5
4320.00	547.6
5669.45	550.2



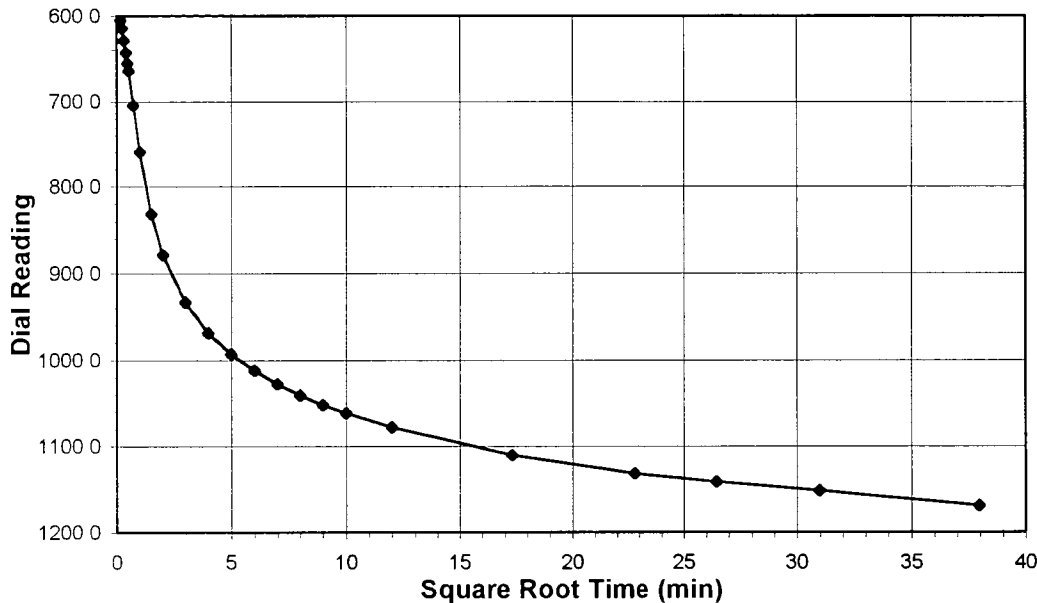
Tested By *TM* Date *3/10/05* Checked By *GU* Date *3/23/05*

# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-90 (SOP-S24A)

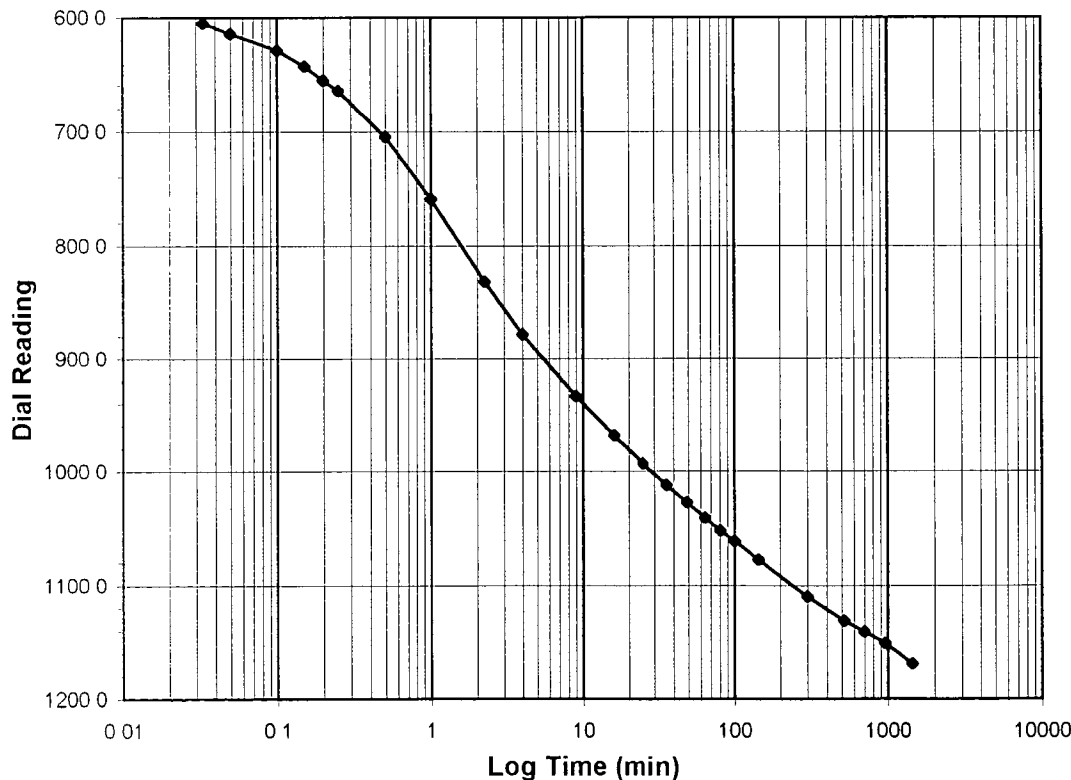
Client	BLASLAND, BOUCK, & LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-04	Sample No.	SS57-R-POST S/T
Lab ID	2004-221-04-07	Visual Description	BROWNISH GRAY STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



<b>Test Load</b>	(tsf)	<b>4.0-8.0</b>
<b>Final Reading</b>	(div)	<b>1169.2</b>
Consolidometer No.		2
1 Division	(in)	0.0001
<b>Start Date</b>		<b>3/14/05</b>
<b>Start Time</b>		<b>9:27:39</b>

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>550.2</b>
0.03	605.2
0.05	613.9
0.10	628.9
0.15	642.9
0.20	655.1
0.25	664.3
0.50	704.5
1.00	759.2
2.25	831.7
4.00	878.4
9.02	933.4
16.02	968.5
25.00	993.2
36.00	1012.1
49.00	1027.7
64.00	1040.8
81.00	1052.0
100.00	1061.5
144.00	1077.8
300.00	1109.8
520.00	1131.4
700.00	1141.1
960.00	1151.2
1440.00	1169.2



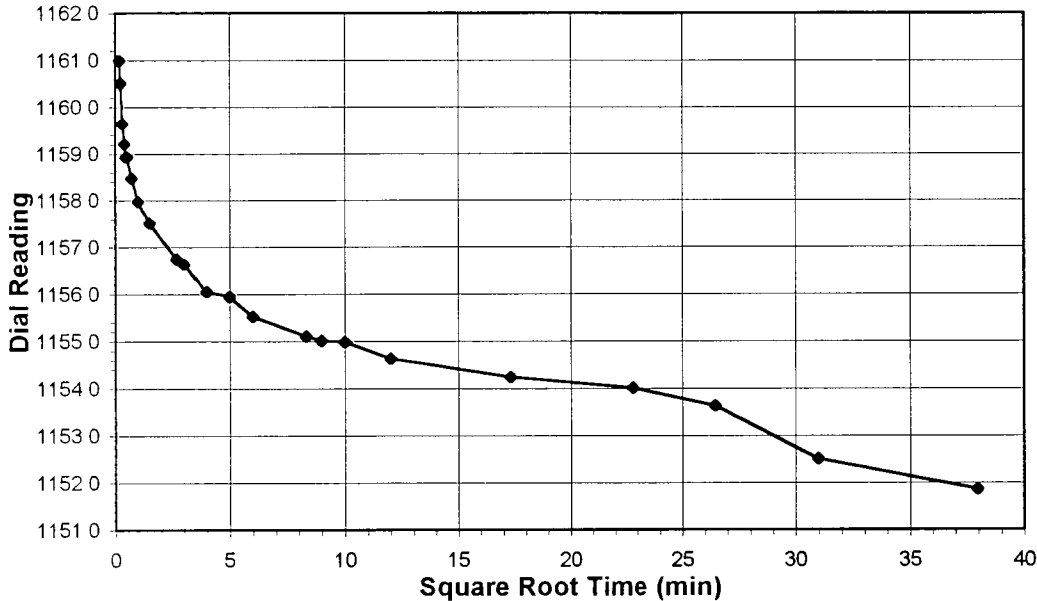
Tested By TM Date 3/14/05 Checked By GU Date 3/23/05

# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-90 (SOP-S24A)

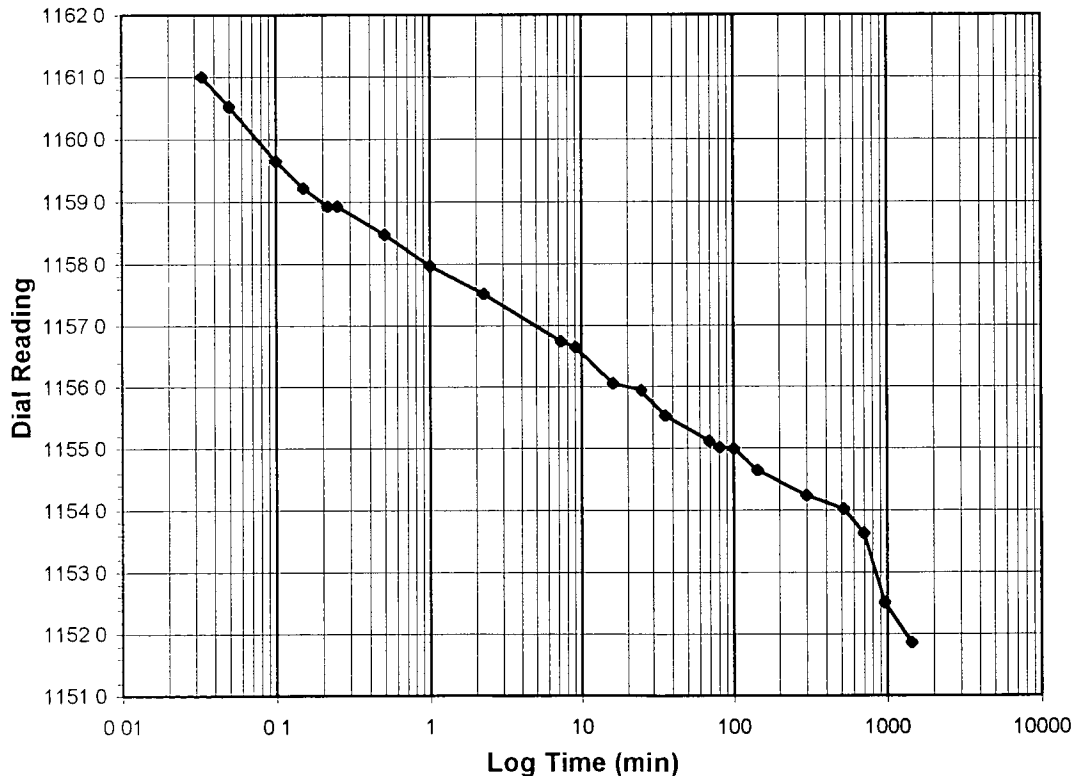
Client	BLASLAND, BOUCK, & LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-04	Sample No.	SS57-R-POST S/T
Lab ID	2004-221-04-07	Visual Description	BROWNISH GRAY STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



<b>Test Load</b>	(tsf)	<b>8.0-4.0</b>
<b>Final Reading</b>	(div)	<b>1151.9</b>
Consolidometer No.		2
1 Division	(in)	0.0001
<b>Start Date</b>		<b>3/15/05</b>
<b>Start Time</b>		<b>9:51:22</b>

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>1169.2</b>
0.03	1161.0
0.05	1160.5
0.10	1159.7
0.15	1159.2
0.22	1158.9
0.25	1158.9
0.50	1158.5
1.00	1158.0
2.25	1157.5
7.28	1156.7
9.10	1156.6
16.00	1156.1
25.00	1155.9
36.00	1155.5
69.30	1155.1
81.00	1155.0
100.00	1155.0
144.00	1154.6
300.00	1154.2
520.00	1154.0
700.00	1153.6
960.00	1152.5
1440.00	1151.9



Tested By **TM** Date **3/15/05** Checked By **GU** Date **3/23/05**

# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-90 (SOP-S24A)

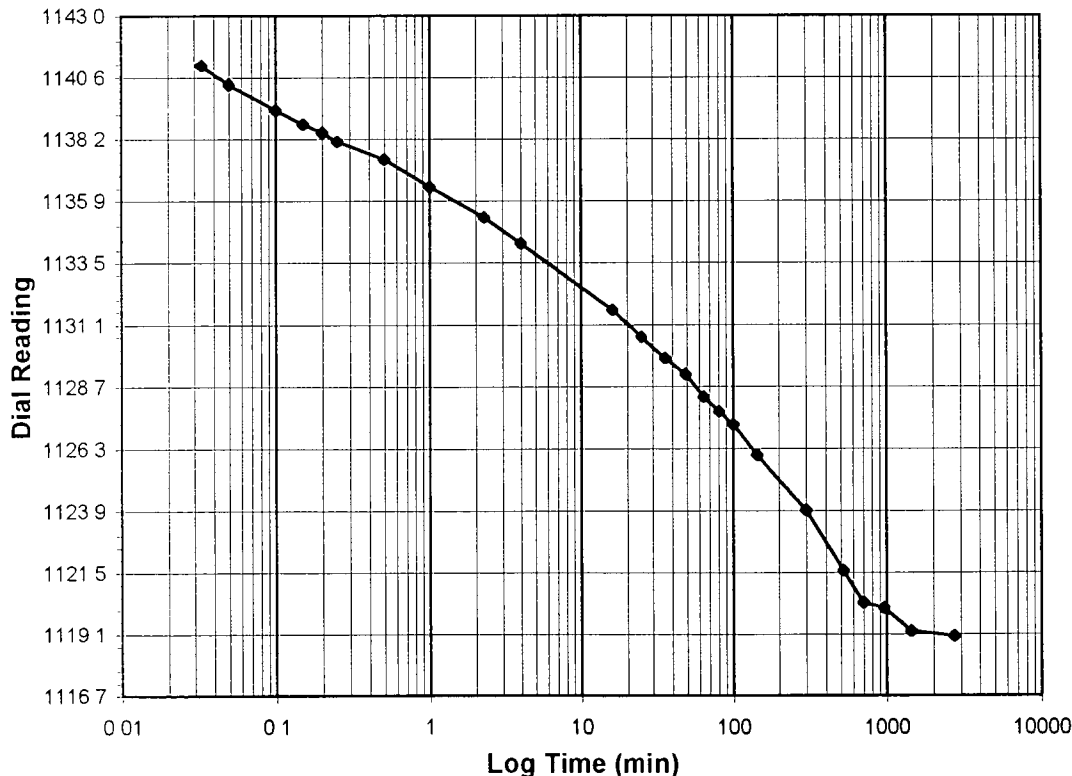
Client	BLASLAND, BOUCK, & LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-04	Sample No.	SS57-R-POST S/T
Lab ID	2004-221-04-07	Visual Description	BROWNISH GRAY STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	4.0-1.0
Final Reading (div)	1119.0
Consolidometer No.	2
1 Division (in)	0.0001
Start Date	3/16/05
Start Time	11:43:59

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>1151.9</b>
0.03	1141.1
0.05	1140.4
0.10	1139.4
0.15	1138.8
0.20	1138.5
0.25	1138.2
0.50	1137.5
1.00	1136.4
2.27	1135.2
4.00	1134.2
16.00	1131.6
25.00	1130.6
36.00	1129.8
49.00	1129.1
64.00	1128.3
81.00	1127.7
100.00	1127.2
144.00	1126.0
300.00	1123.9
520.00	1121.5
700.00	1120.3
960.00	1120.1
1440.00	1119.2
2717.70	1119.0



Tested By *TM* Date *3/16/05* Checked By *GU* Date *3/23/05*

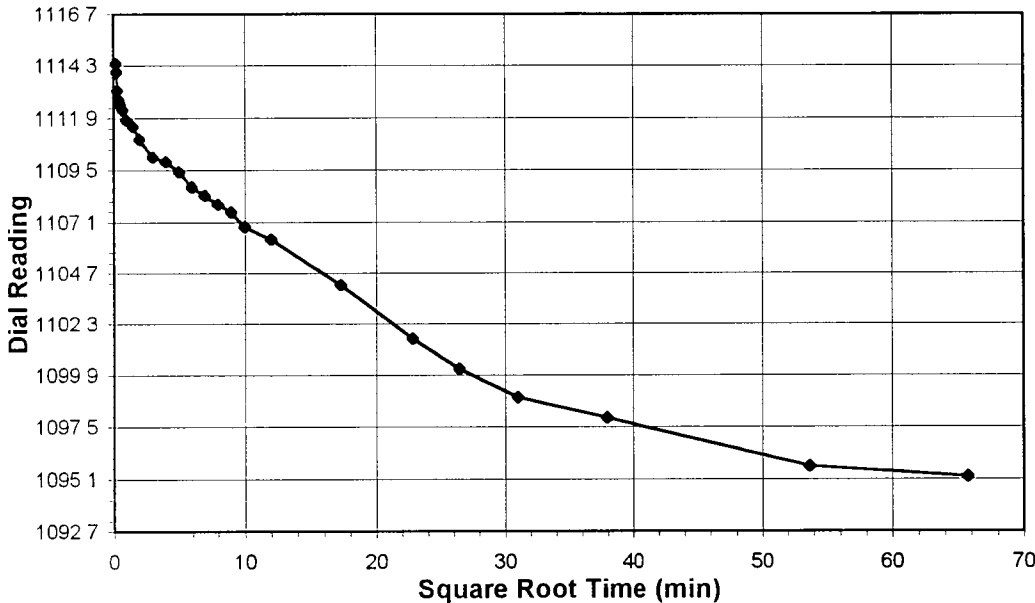


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-90 (SOP-S24A)

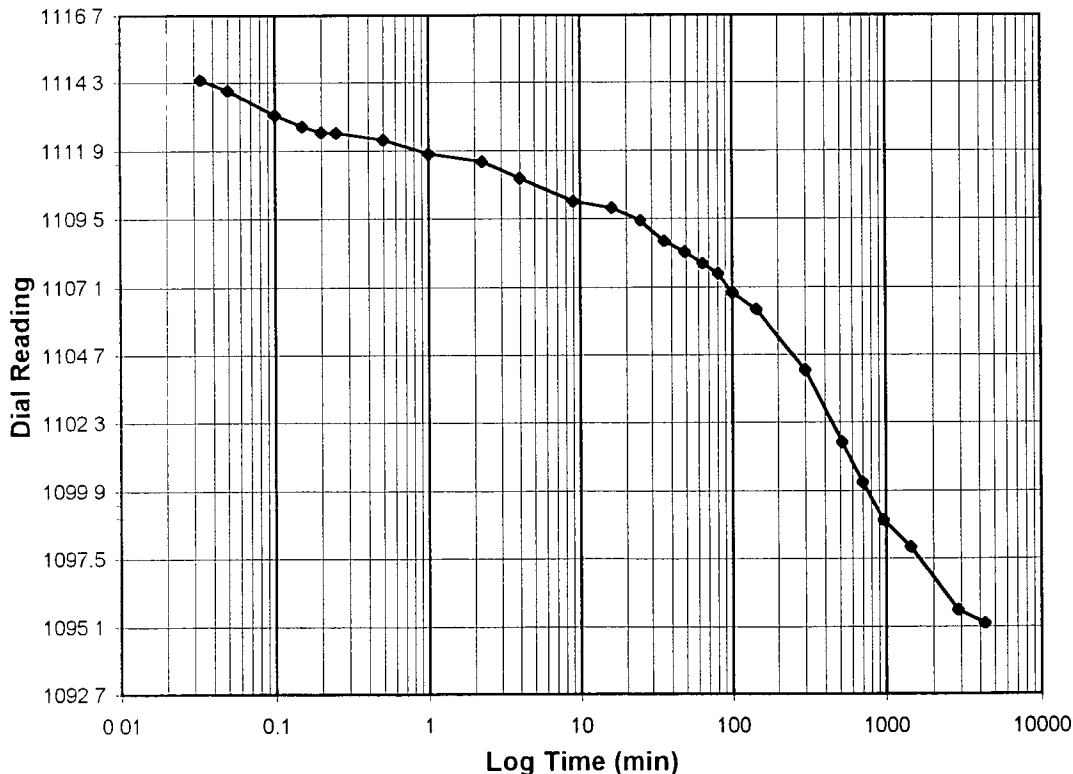
Client	BLASLAND, BOUCK, & LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No	2004-221-04	Sample No.	SS57-R-POST S/T
Lab ID	2004-221-04-07	Visual Description	BROWNISH GRAY STABILIZED MATERIAL

Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	1.0-0.25
Final Reading (div)	1095.2
Consolidometer No.	2
1 Division (in)	0.0001
Start Date	3/18/05
Start Time	9:11:47

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>1119.0</b>
0.03	1114.4
0.05	1114.0
0.10	1113.2
0.15	1112.7
0.20	1112.5
0.25	1112.5
0.50	1112.3
1.00	1111.8
2.25	1111.5
4.00	1110.9
9.02	1110.1
16.00	1109.9
25.00	1109.4
36.00	1108.7
49.00	1108.3
64.00	1107.9
81.00	1107.6
100.00	1106.9
144.00	1106.3
300.00	1104.2
520.00	1101.6
700.00	1100.2
960.00	1098.9
1440.00	1097.9
2880.00	1095.7
4320.00	1095.2



Tested By *TM* Date *3/18/05* Checked By *GU* Date *3/23/05*

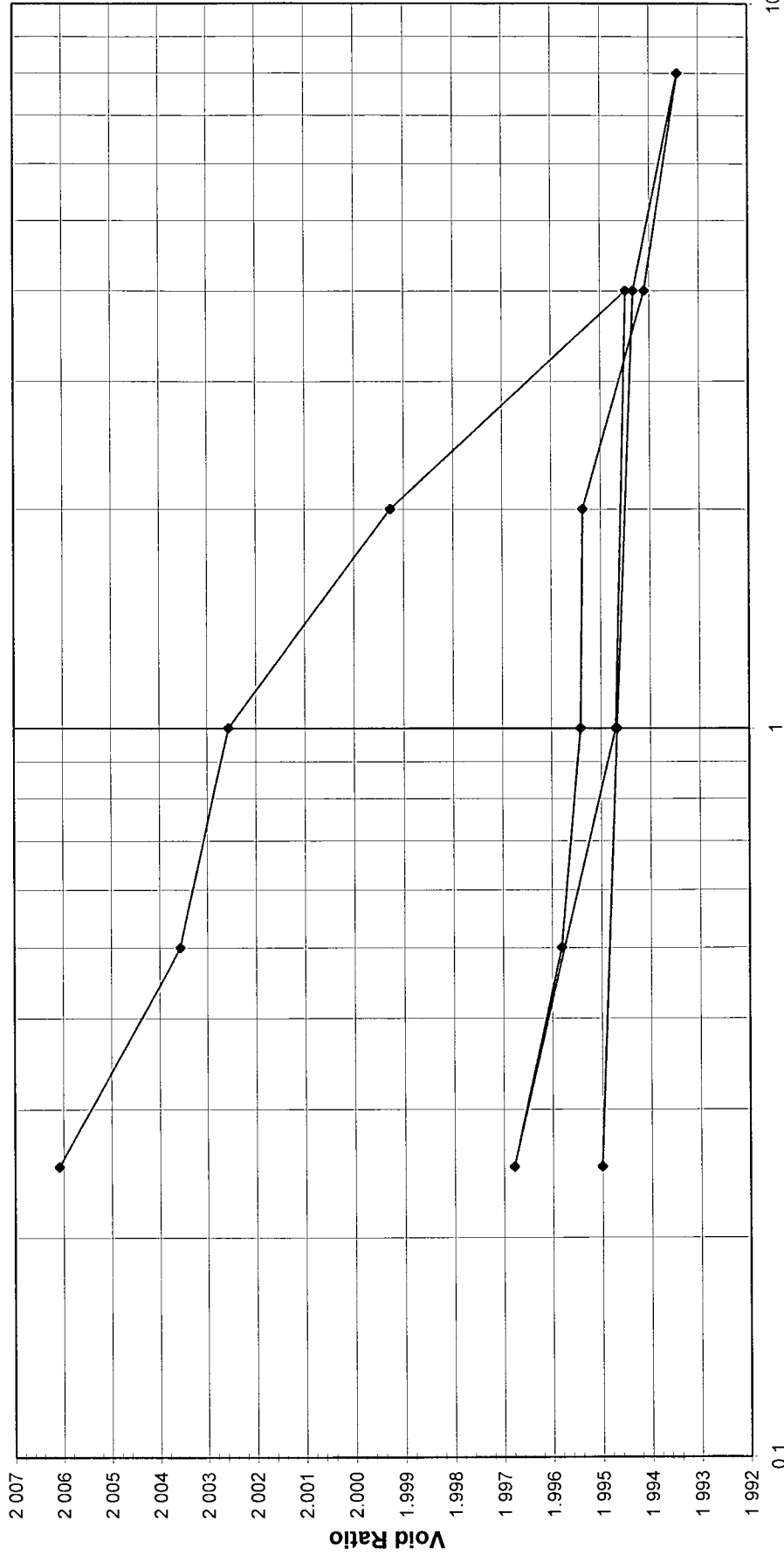


# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 / AASHTO T216-03 (SOP-S24)

Client	BLASLAND, BOUCK, & LEE	Boring No.	9/22/04
Client Reference	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-04	Sample No.	SS58-R-POST S/T
Lab ID	2004-221-04-08	Visual Description	BROWNISH GRAY STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Log P (tsf)



# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 / AASHTO T216-03 (SOP-S24)

Client	BLASLAND, BOUCK, & LEE	Boring No.	9/22/04
Client Reference	GEHR TREATABILITY 204 302	Depth (ft)	NA
Project No.	2004-221-04	Sample No.	SS58-R-POST S/T
Lab ID	2004-221-04-08	Visual Description	BROWNISH GRAY STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED

**Consolidometer No.** 3

**1 Division** = 0.0001 (in)

## Sample Properties

	Initial	Final
<i>Water Content</i>		T-11
Tare Number	444	211.76
Wt. Tare & WS (gm)	176.52	162.72
Wt. Tare & DS (gm)	147.18	49.04
Wt. Water (gm)	29.34	92.70
Wt. Tare (gm)	99.87	70.02
Wt. DS (gm)	47.31	70.04
Water Content (%)	62.02	

## Sample Parameters

Sample Diameter (in)	2.5	2.5
Sample Height (in)	1	0.993
Sample Volume (cc)	80.44	79.88
Wt. Wet Sample + Ring (gm)	262.56	268.34
Wt. of Ring (gm)	145.89	145.89
Wt. of Wet Sample (gm)	116.67	122.45
Wet Density (pcf)	90.51	95.65
Wet Density (g/cc)	1.45	1.53
Water Content (%)	62.02	70.04
Wt. of Dry Sample (gm)	72.01	72.01
Dry Density (pcf)	55.86	56.25
Dry Density (g/cc)	0.90	0.90
Void Ratio	2.0160	1.9950
Saturation (%)	83.06	94.79
Specific Gravity	2.70	Assumed

## Test Data Summary

Applied Pressure (tsf)	Final Dial Reading (div)	Machine Deflection (div)	Corrected Reading (div)	Height of Sample (mm)	Volume (cc)	Dry Density (g/cc)	Void Ratio
Seating	0	0	0	25.400	80.440	0.89522	2.01602
0.25	33.8	0.8	33.0	25.316	80.175	0.89818	2.00608
0.5	43.8	2.5	41.4	25.295	80.107	0.89894	2.00355
1	52.2	7.6	44.6	25.287	80.081	0.89923	2.00256
2	71.2	15.6	55.6	25.259	79.993	0.90022	1.99926
4	100.1	28.7	71.4	25.219	79.865	0.90166	1.99448
1	83.7	13.0	70.7	25.220	79.871	0.90159	1.99470
0.25	68.2	4.4	63.8	25.238	79.927	0.90096	1.99679
0.5	71.8	4.8	67.0	25.230	79.901	0.90126	1.99580
1	76.4	8.1	68.4	25.226	79.890	0.90138	1.99541
2	84.8	16.3	68.5	25.226	79.889	0.90139	1.99536
4	100.2	27.5	72.7	25.215	79.855	0.90177	1.99410
8	117.9	43.0	74.9	25.210	79.837	0.90198	1.99343
4	110.6	38.7	72.0	25.217	79.861	0.90171	1.99432
1	95.0	24.2	70.8	25.220	79.870	0.90160	1.99467
0.25	85.4	15.7	69.7	25.223	79.879	0.90150	1.99500

Tested By TM Date 2/28/05 Input Checked By CS Date 3/23/05

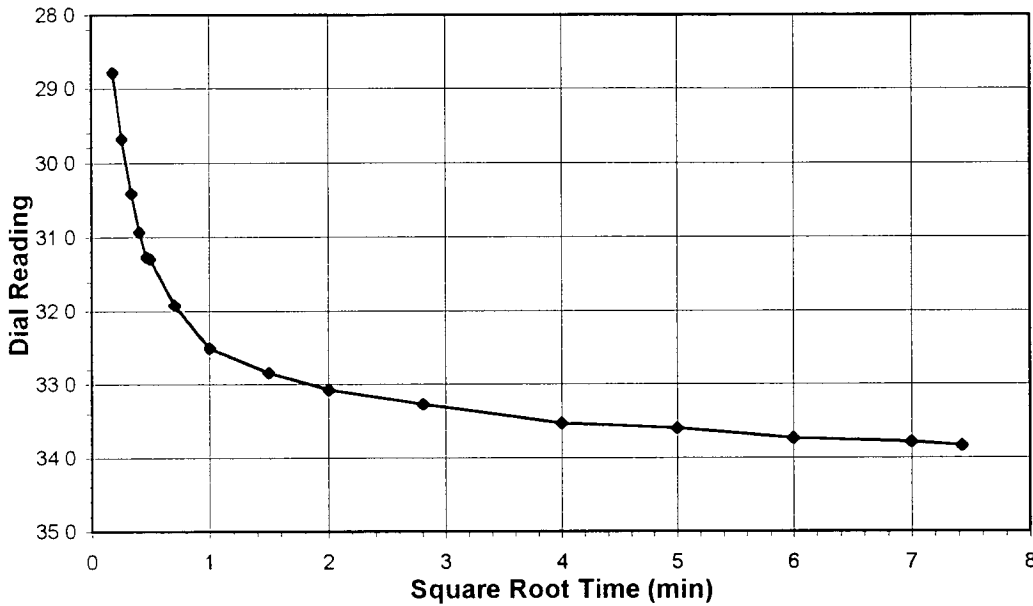
# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE  
 Client Project: GEHR TREATABILITY 204.302  
 Project No.: 2004-221-04  
 Lab ID: 2004-221-04-08

Boring No.: 9/22/04  
 Depth (ft): NA  
 Sample No.: SS58-R-POST S/T  
 Visual Description: BROWNISH GRAY STABILIZED MATERIAL

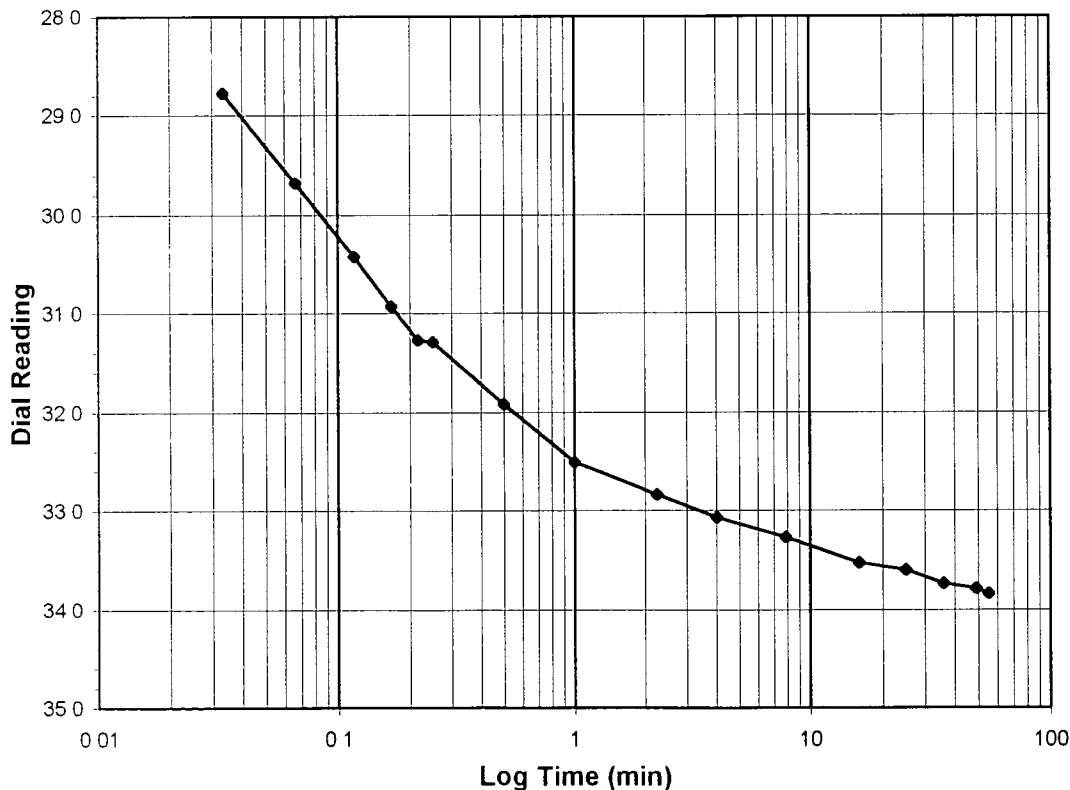
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf): 0-0.25  
 Final Reading (div): 33.8  
 Consolidometer No.: 3  
 1 Division (in): 0.0001

Start Date: 2/28/05  
 Start Time: 14:19:41

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	0.0
0.03	28.8
0.07	29.7
0.12	30.4
0.17	30.9
0.22	31.3
0.25	31.3
0.50	31.9
1.00	32.5
2.25	32.8
4.02	33.1
7.89	33.3
16.00	33.5
25.00	33.6
36.00	33.7
49.00	33.8
55.18	33.8



Tested By: TM Date: 2/28/05 Checked By: GU Date: 3/23/05

# ONE DIMENSIONAL CONSOLIDATION

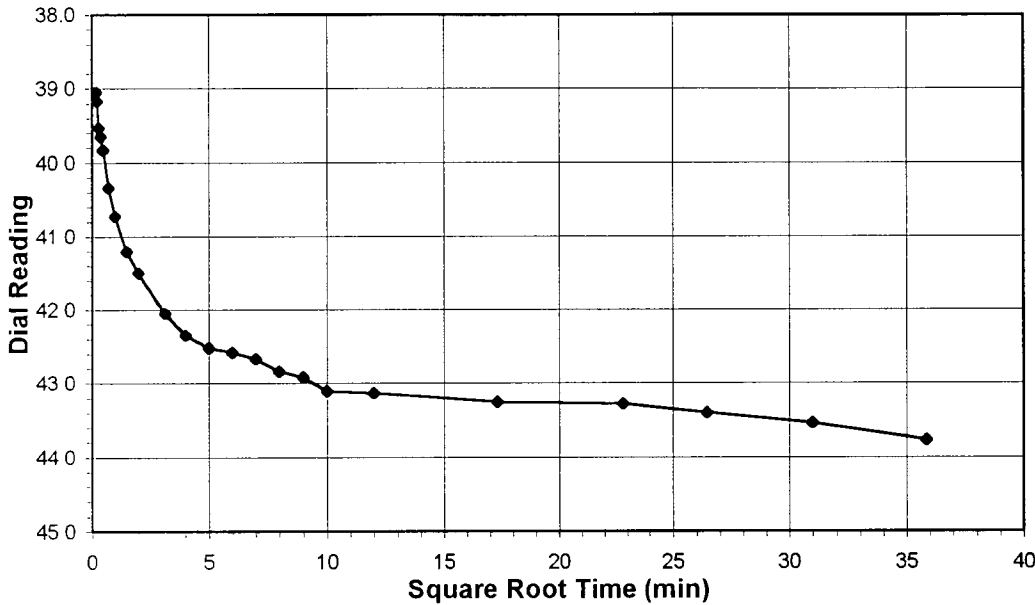
ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE  
 Client Project: GEHR TREATABILITY 204.302  
 Project No.: 2004-221-04  
 Lab ID: 2004-221-04-08

Boring No.:  
 Depth (ft):  
 Sample No.:  
 Visual Description:

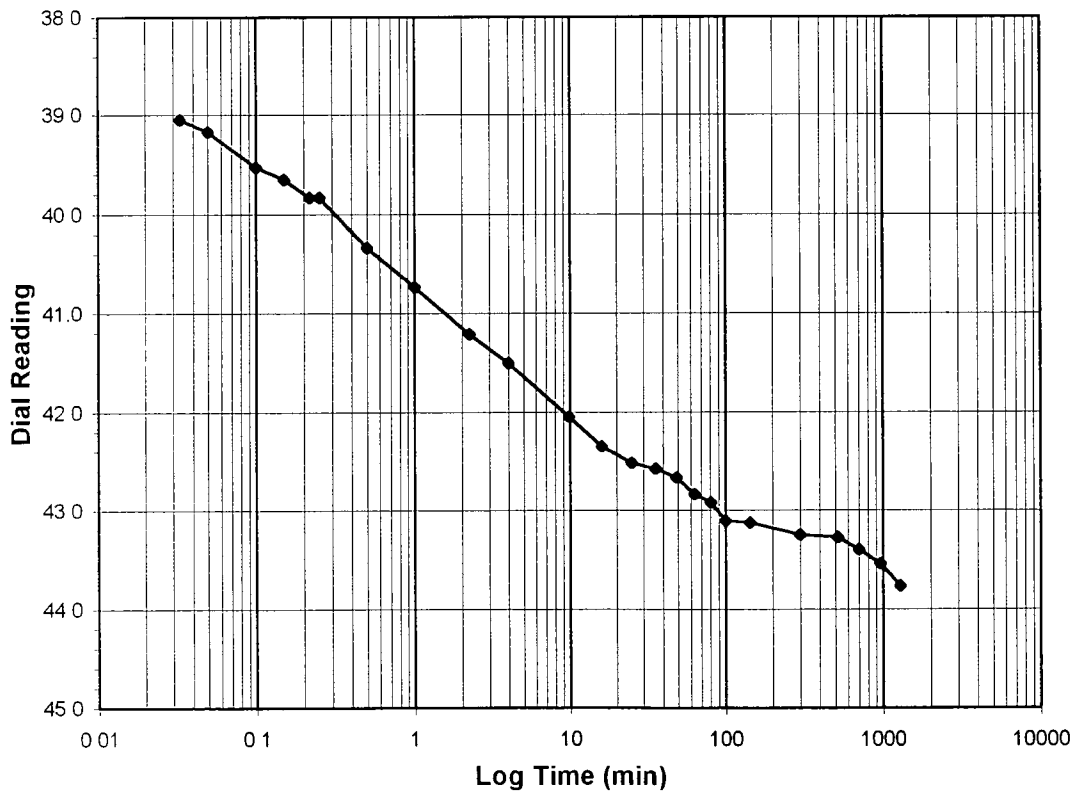
9/22/04  
 NA  
 SS58-R-POST S/T  
 BROWNISH GRAY  
 STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	0.25-0.5
Final Reading (div)	43.8
Consolidometer No.	3
1 Division (in)	0.0001
Start Date	2/28/05
Start Time	15:16:37

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>33.8</b>
0.03	39.1
0.05	39.2
0.10	39.5
0.15	39.7
0.22	39.8
0.25	39.8
0.50	40.3
1.00	40.7
2.25	41.2
4.00	41.5
9.78	42.1
16.00	42.4
25.00	42.5
36.00	42.6
49.00	42.7
64.00	42.8
81.00	42.9
100.00	43.1
144.00	43.1
300.00	43.3
520.00	43.3
700.00	43.4
960.00	43.5
1285.65	43.8



Tested By *TM* Date *2/28/05* Checked By *GO* Date *3/23/05*

# ONE DIMENSIONAL CONSOLIDATION

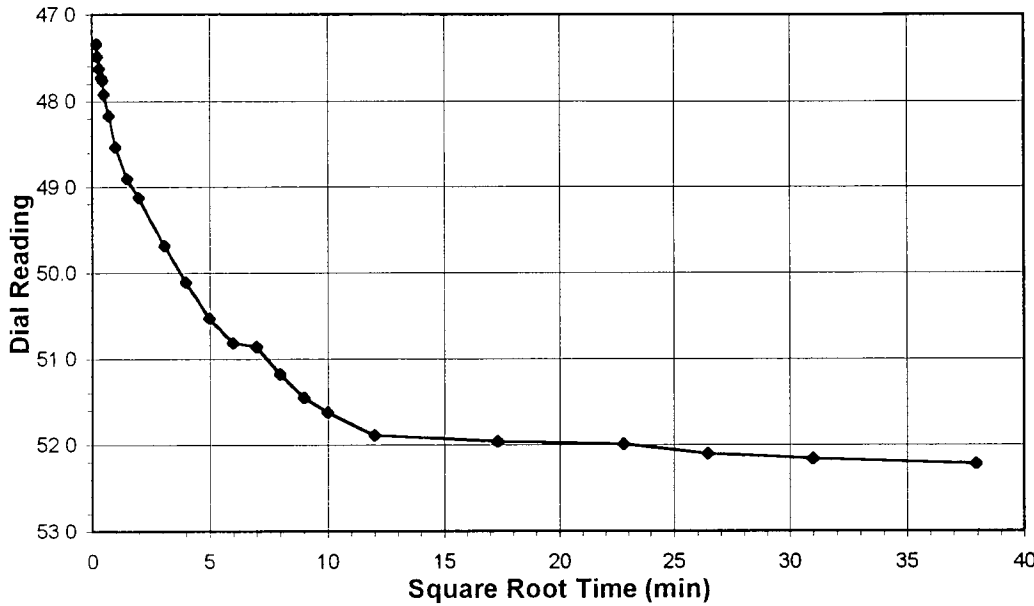
ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE  
 Client Project: GEHR TREATABILITY 204.302  
 Project No.: 2004-221-04  
 Lab ID: 2004-221-04-08

Boring No.:  
 Depth (ft):  
 Sample No.:  
 Visual Description:

9/22/04  
 NA  
 SS58-R-POST S/T  
 BROWNISH GRAY  
 STABILIZED MATERIAL

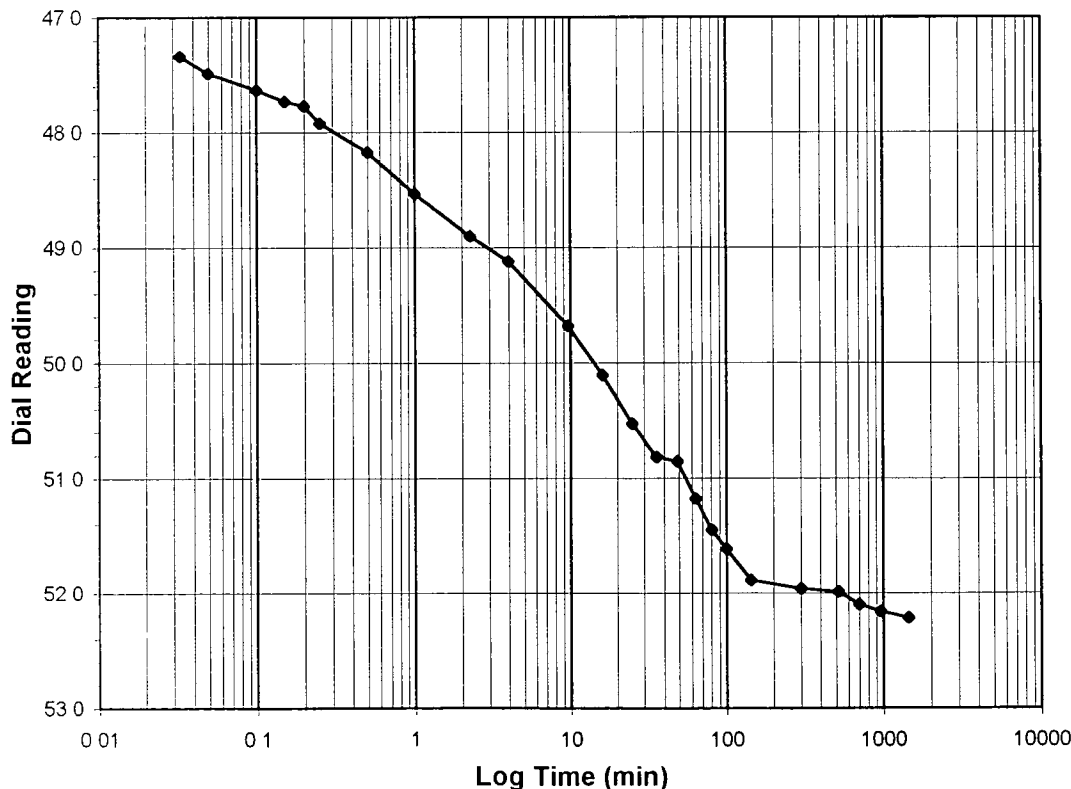
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 0.5-1.0  
 Final Reading (div) 52.2  
 Consolidometer No. 3  
 1 Division (in) 0.0001

Start Date 3/1/05  
 Start Time 10:37:04

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>43.8</b>
0.03	47.3
0.05	47.5
0.10	47.6
0.15	47.7
0.20	47.8
0.25	47.9
0.50	48.2
1.00	48.5
2.27	48.9
4.00	49.1
9.63	49.7
16.00	50.1
25.00	50.5
36.00	50.8
49.00	50.9
64.00	51.2
81.00	51.5
100.00	51.6
144.00	51.9
300.00	52.0
520.00	52.0
700.00	52.1
960.00	52.2
1440.00	52.2



Tested By TM Date 3/1/05 Checked By GO Date 3/23/05

# ONE DIMENSIONAL CONSOLIDATION

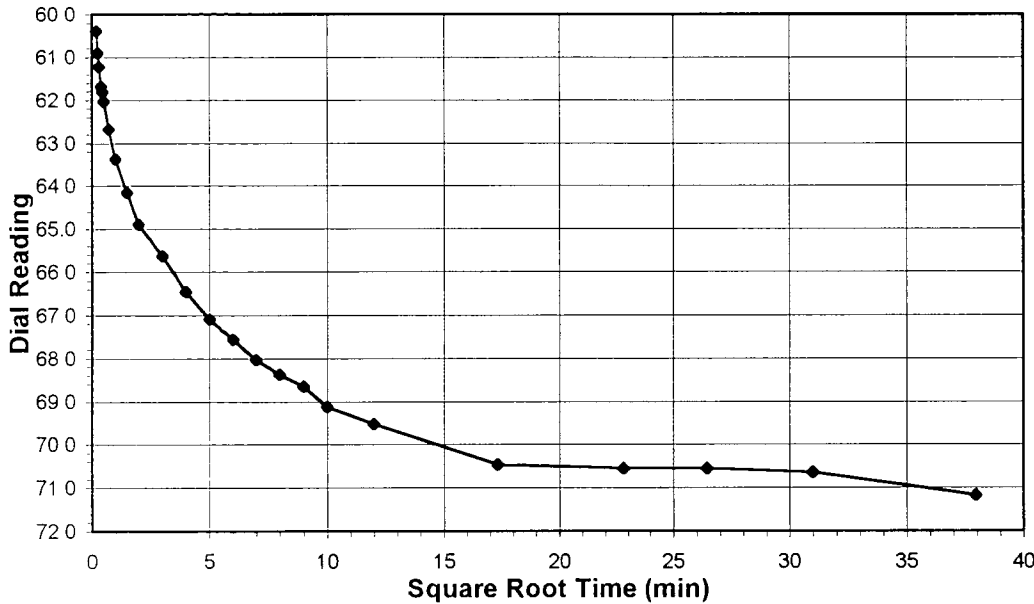
ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE  
 Client Project: GEHR TREATABILITY 204.302  
 Project No.: 2004-221-04  
 Lab ID: 2004-221-04-08

Boring No.:  
 Depth (ft):  
 Sample No.:  
 Visual Description:

9/22/04  
 NA  
 SS58-R-POST S/T  
 BROWNISH GRAY  
 STABILIZED MATERIAL

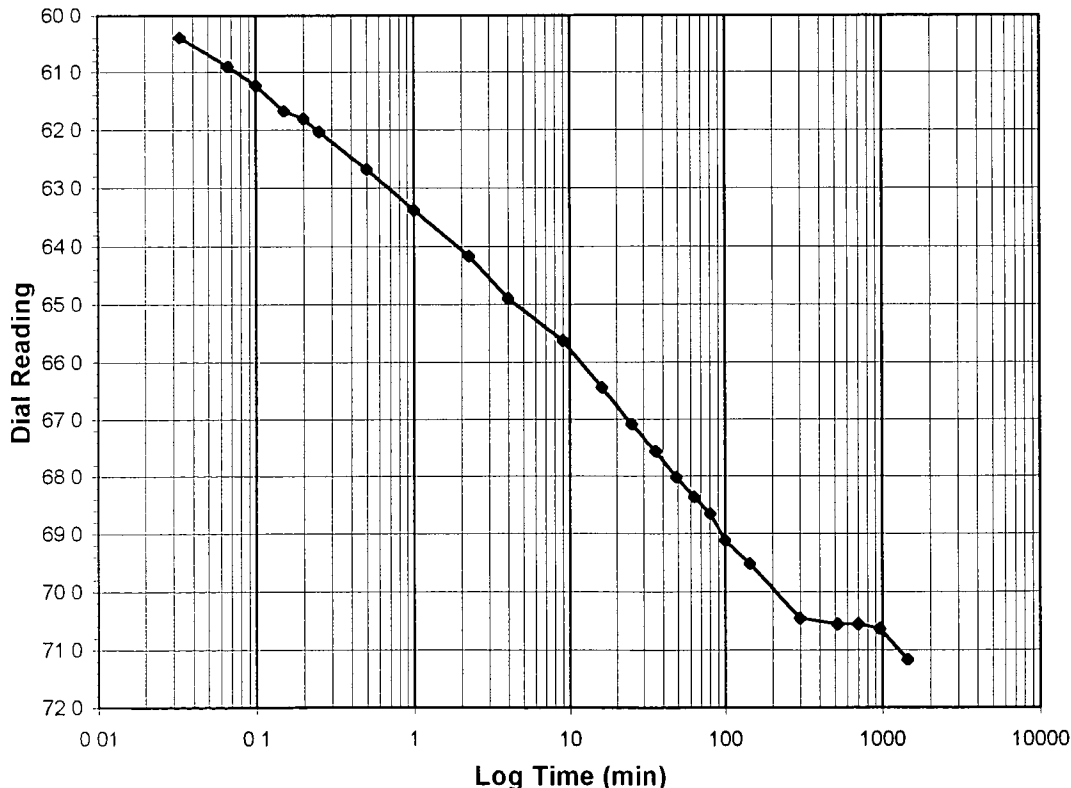
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 1.0-2.0  
 Final Reading (div) 71.2  
 Consolidometer No. 3  
 1 Division (in) 0.0001

Start Date 3/2/05  
 Start Time 11:21:08

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	52.2
0.03	60.4
0.07	60.9
0.10	61.2
0.15	61.7
0.20	61.8
0.25	62.0
0.50	62.7
1.00	63.4
2.25	64.2
4.00	64.9
9.02	65.6
16.00	66.5
25.00	67.1
36.00	67.6
49.00	68.0
64.00	68.4
81.02	68.7
100.00	69.1
144.00	69.5
300.00	70.5
520.00	70.6
700.00	70.6
960.00	70.6
1440.02	71.2



Tested By TM Date 3/2/05 Checked By GU Date 3/23/05

# ONE DIMENSIONAL CONSOLIDATION

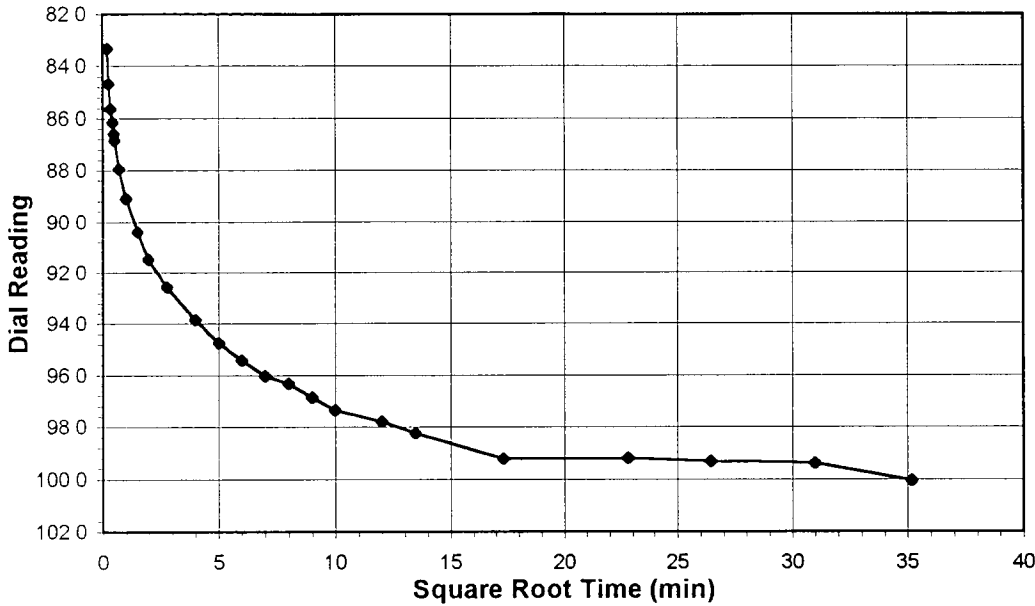
ASTM D 2435-96 (SOP-S24A)

Client **BLASLAND, BOUCK, & LEE**  
 Client Project **GEHR TREATABILITY 204.302**  
 Project No **2004-221-04**  
 Lab ID **2004-221-04-08**

Boring No.  
 Depth (ft)  
 Sample No.  
 Visual Description

9/22/04  
 NA  
 SS58-R-POST S/T  
 BROWNISH GRAY  
 STABILIZED MATERIAL

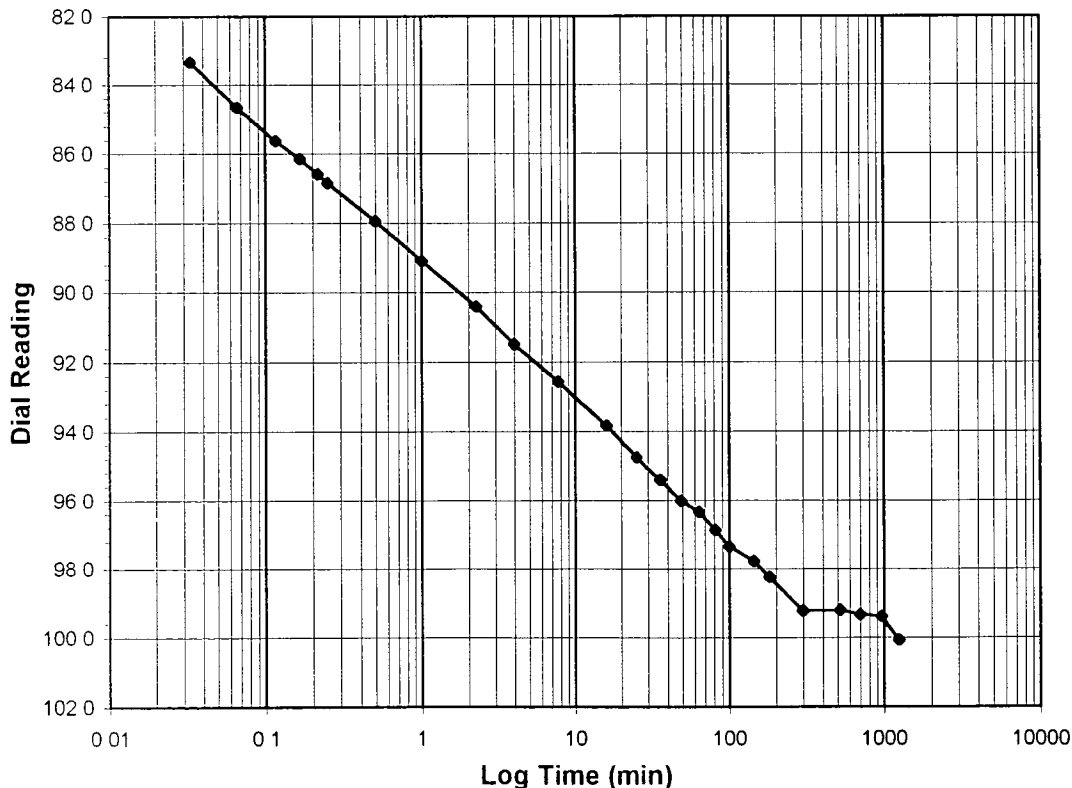
**Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED**



**Test Load (tsf) 2.0-4.0**  
**Final Reading (div) 100.1**  
 Consolidometer No. 3  
 1 Division (in) 0.0001

**Start Date 3/3/05**  
**Start Time 13:04:15**

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>71.2</b>
0.03	83.3
0.07	84.7
0.12	85.6
0.17	86.2
0.22	86.6
0.25	86.9
0.50	87.9
1.00	89.1
2.25	90.4
4.00	91.5
7.72	92.6
16.00	93.9
25.00	94.8
36.00	95.4
49.02	96.0
64.00	96.3
81.00	96.9
100.00	97.4
144.00	97.8
180.92	98.3
300.00	99.2
520.00	99.2
700.00	99.3
960.00	99.4
1238.33	100.1



Tested By **TM** Date **3/3/05** Checked By **GO** Date **3/23/05**



# ONE DIMENSIONAL CONSOLIDATION

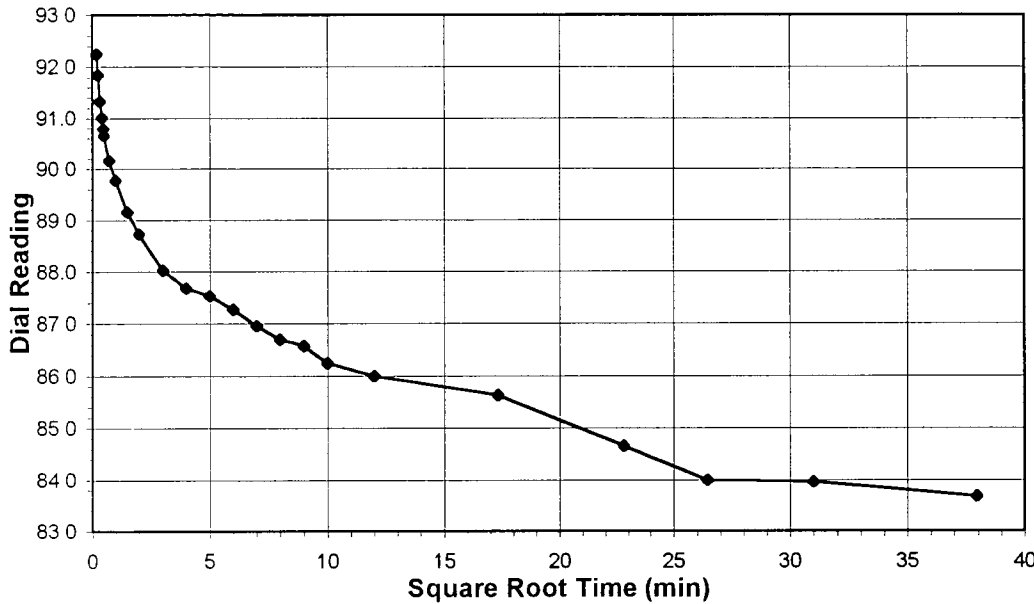
ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE  
 Client Project: GEHR TREATABILITY 204.302  
 Project No.: 2004-221-04  
 Lab ID: 2004-221-04-08

Boring No.:  
 Depth (ft):  
 Sample No.:  
 Visual Description:

9/22/04  
 NA  
 SS58-R-POST S/T  
 BROWNISH GRAY  
 STABILIZED MATERIAL

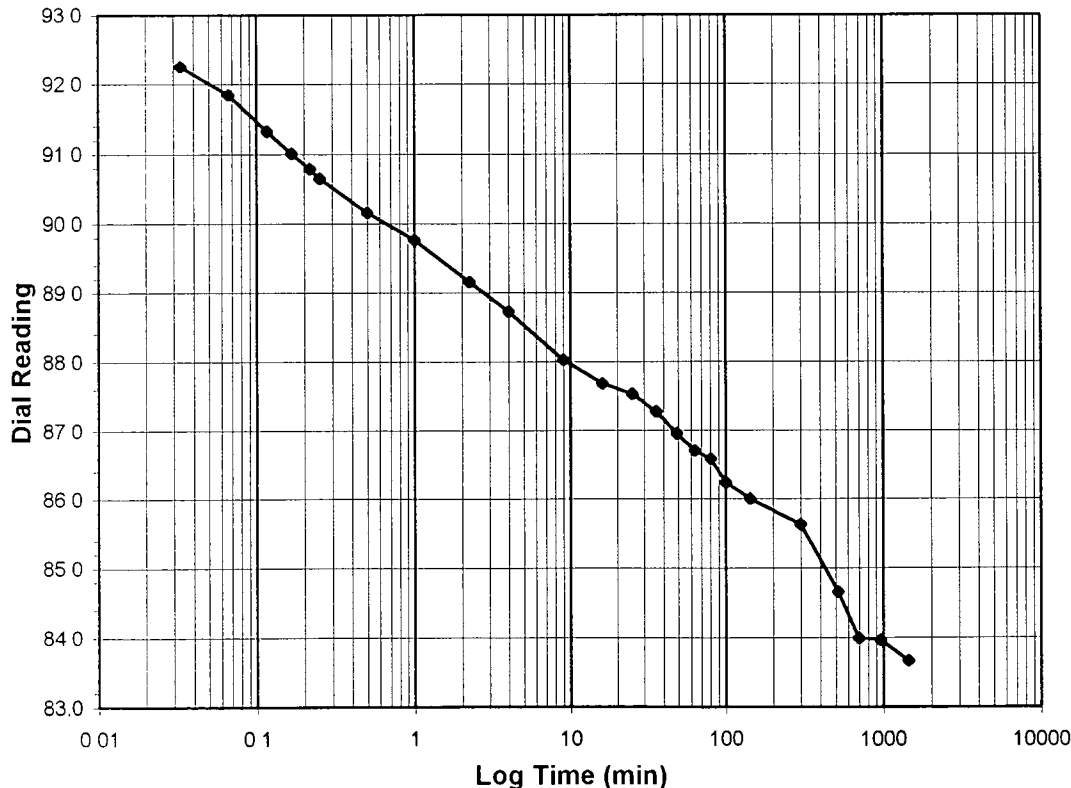
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 4.0-1.0  
 Final Reading (div) 83.7  
 Consolidometer No. 3  
 1 Division (in) 0.0001

Start Date 3/4/05  
 Start Time 9:46:38

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>100.1</b>
0.03	92.3
0.07	91.8
0.12	91.3
0.17	91.0
0.22	90.8
0.25	90.7
0.50	90.2
1.00	89.8
2.25	89.2
4.00	88.7
9.02	88.0
16.00	87.7
25.00	87.5
36.00	87.3
49.00	87.0
64.00	86.7
81.00	86.6
100.02	86.2
144.00	86.0
300.00	85.6
520.00	84.7
700.00	84.0
960.00	84.0
1440.00	83.7



Tested By TM Date 3/4/05 Checked By GU Date 3/23/05

# ONE DIMENSIONAL CONSOLIDATION

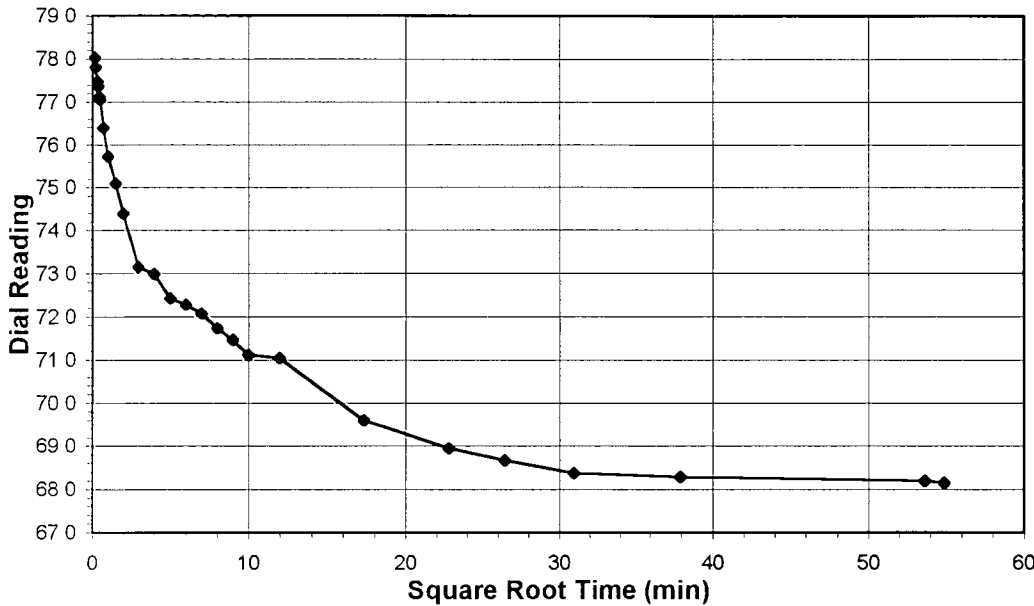
ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE  
 Client Project: GEHR TREATABILITY 204.302  
 Project No.: 2004-221-04  
 Lab ID: 2004-221-04-08

Boring No.:  
 Depth (ft):  
 Sample No.:  
 Visual Description:

9/22/04  
 NA  
 SS58-R-POST S/T  
 BROWNISH GRAY  
 STABILIZED MATERIAL

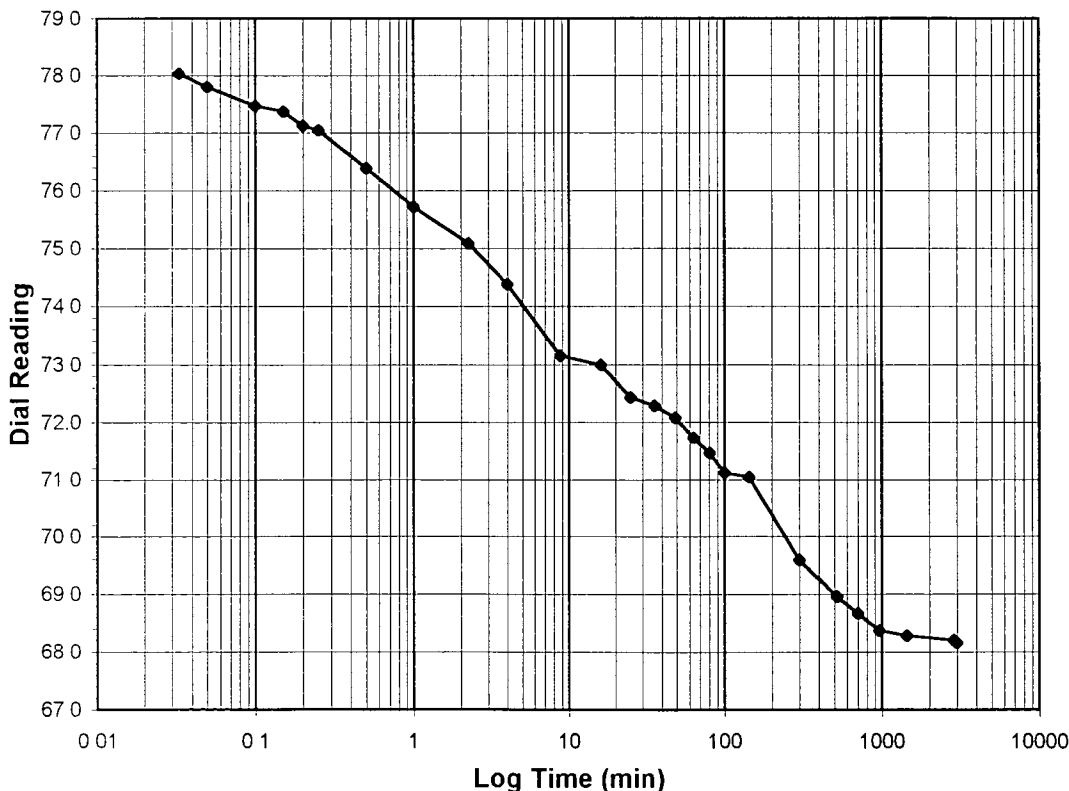
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 1.0-0.25  
 Final Reading (div) 68.2  
 Consolidometer No. 3  
 1 Division (in) 0.0001

Start Date 3/5/05  
 Start Time 10:35:11

Elapsed Time (min)	Dial Reading (div)
Initial	83.7
0.03	78.0
0.05	77.8
0.10	77.5
0.15	77.4
0.20	77.1
0.25	77.1
0.50	76.4
1.00	75.7
2.25	75.1
4.02	74.4
8.78	73.2
16.00	73.0
25.00	72.4
36.00	72.3
49.00	72.1
64.00	71.7
81.02	71.5
100.00	71.1
144.00	71.0
300.00	69.6
520.00	69.0
700.00	68.7
960.00	68.4
1440.00	68.3
2880.00	68.2
3014.95	68.2



Tested By TM Date 3/5/05 Checked By GU Date 3/23/05

# ONE DIMENSIONAL CONSOLIDATION

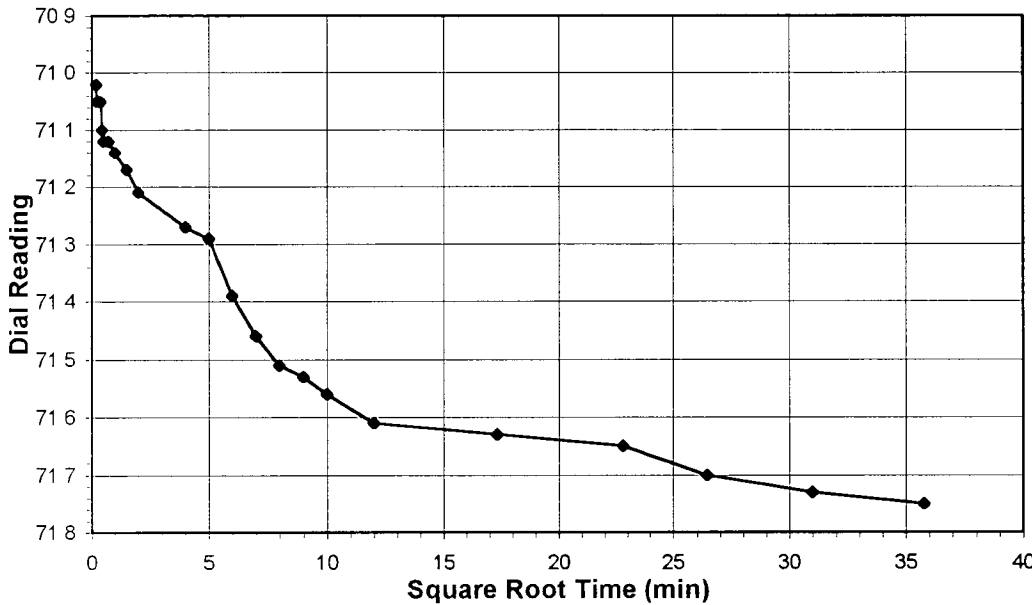
ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE  
 Client Project: GEHR TREATABILITY 204.302  
 Project No.: 2004-221-04  
 Lab ID: 2004-221-04-08

Boring No.:  
 Depth (ft):  
 Sample No.:  
 Visual Description:

9/22/04  
 NA  
 SS58-R-POST S/T  
 BROWNISH GRAY  
 STABILIZED MATERIAL

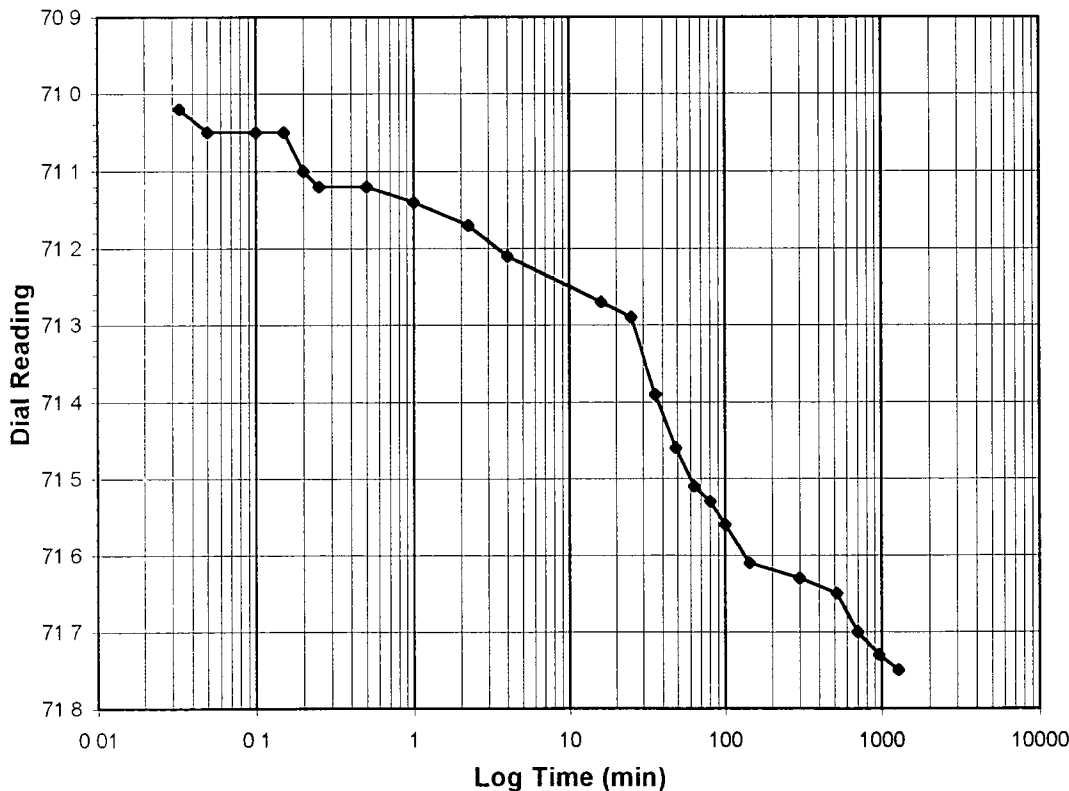
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 0.25-0.5  
 Final Reading (div) 71.8  
 Consolidometer No. 3  
 1 Division (in) 0.0001

Start Date 3/7/05  
 Start Time 12:56:14

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>68.2</b>
0.03	71.0
0.05	71.1
0.10	71.1
0.15	71.1
0.20	71.1
0.25	71.1
0.50	71.1
1.00	71.1
2.25	71.2
4.00	71.2
16.00	71.3
25.00	71.3
36.00	71.4
49.00	71.5
64.00	71.5
81.00	71.5
100.00	71.6
144.00	71.6
300.00	71.6
520.00	71.7
700.00	71.7
960.00	71.7
1279.68	71.8



Tested By *TM* Date *3/7/05* Checked By *GU* Date *3/23/05*

# ONE DIMENSIONAL CONSOLIDATION

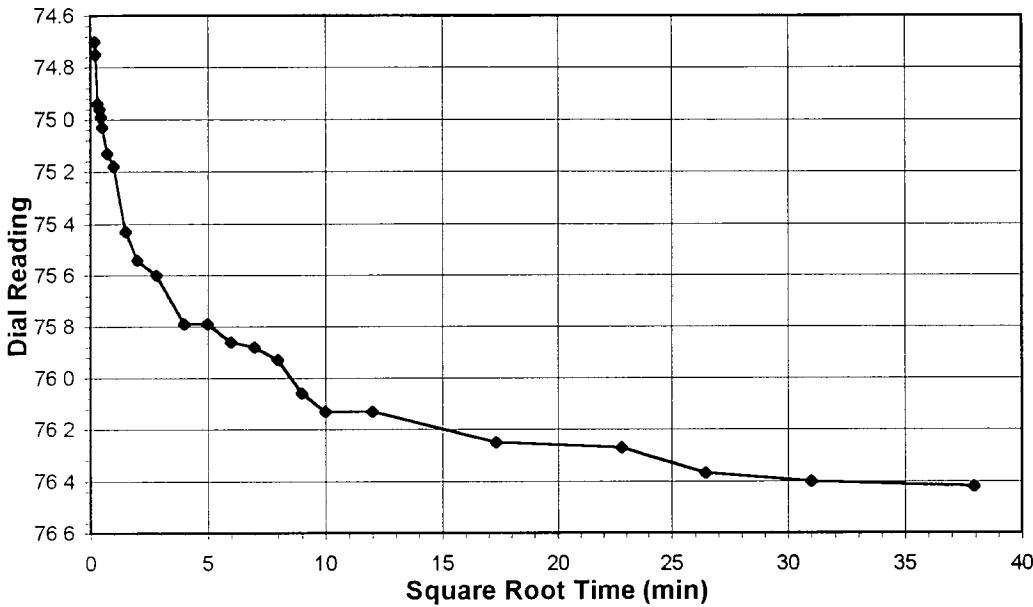
ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE  
 Client Project: GEHR TREATABILITY 204.302  
 Project No.: 2004-221-04  
 Lab ID: 2004-221-04-08

Boring No.:  
 Depth (ft):  
 Sample No.:  
 Visual Description:

9/22/04  
 NA  
 SS58-R-POST S/T  
 BROWNISH GRAY  
 STABILIZED MATERIAL

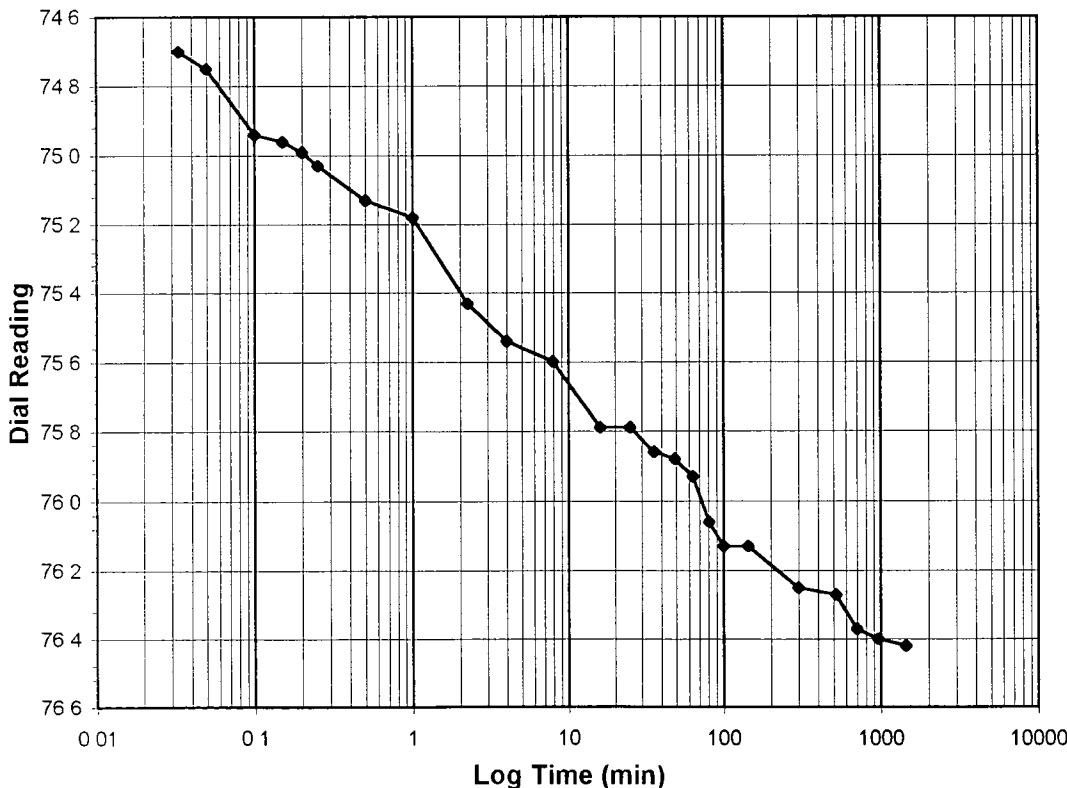
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 0.5-1.0  
 Final Reading (div) 76.4  
 Consolidometer No. 3  
 1 Division (in) 0.0001

Start Date 3/8/05  
 Start Time 10:21:56

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	71.8
0.03	74.7
0.05	74.8
0.10	74.9
0.15	75.0
0.20	75.0
0.25	75.0
0.50	75.1
1.00	75.2
2.25	75.4
4.00	75.5
7.93	75.6
16.00	75.8
25.00	75.8
36.00	75.9
49.00	75.9
64.00	75.9
81.00	76.1
100.00	76.1
144.00	76.1
300.00	76.3
520.00	76.3
700.00	76.4
960.00	76.4
1440.00	76.4



Tested By TM Date 3/8/05 Checked By GU Date 3/23/05

# ONE DIMENSIONAL CONSOLIDATION

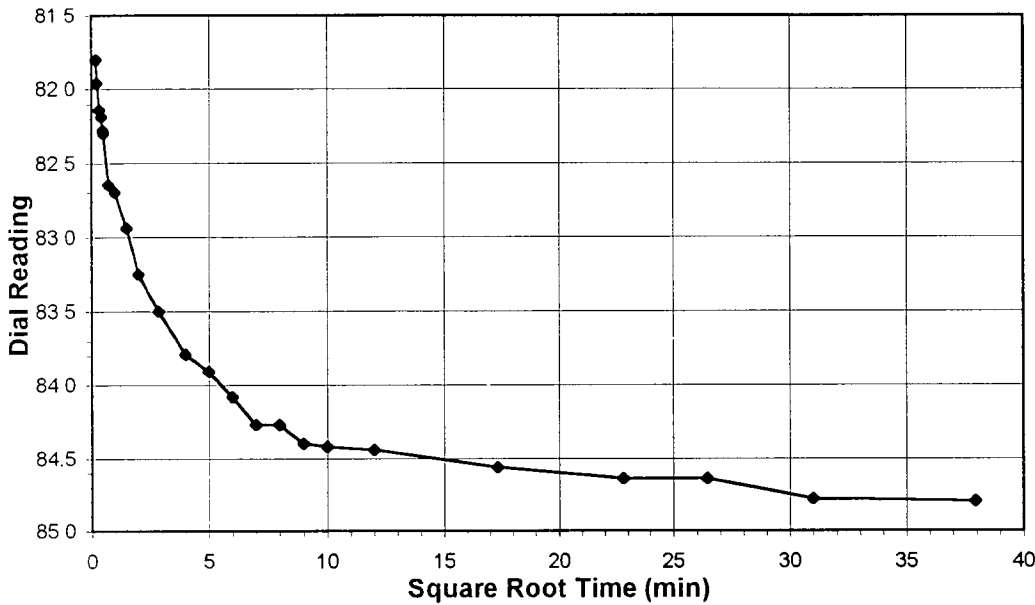
ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE  
 Client Project: GEHR TREATABILITY 204.302  
 Project No.: 2004-221-04  
 Lab ID: 2004-221-04-08

Boring No.:  
 Depth (ft):  
 Sample No.:  
 Visual Description:

9/22/04  
 NA  
 SS58-R-POST S/T  
 BROWNISH GRAY  
 STABILIZED MATERIAL

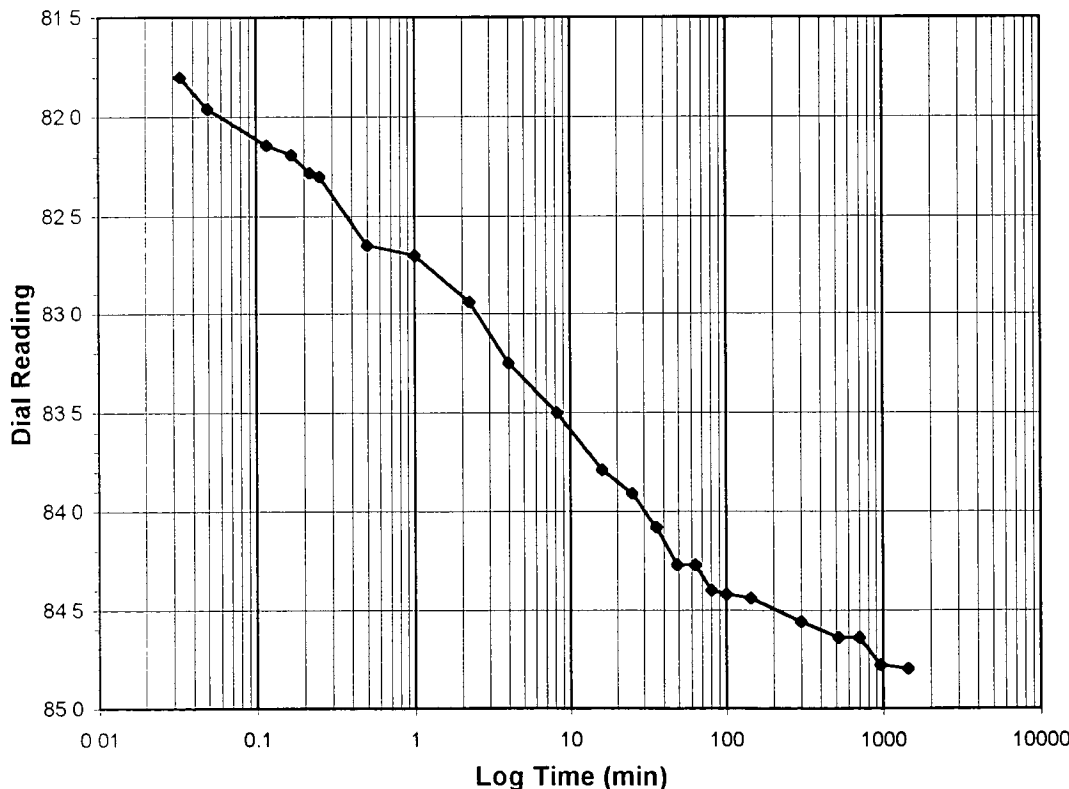
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 1.0-2.0  
 Final Reading (div) 84.8  
 Consolidometer No. 3  
 1 Division (in) 0.0001

Start Date 3/9/05  
 Start Time 10:35:45

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>76.4</b>
0.03	81.8
0.05	82.0
0.12	82.1
0.17	82.2
0.22	82.3
0.25	82.3
0.50	82.7
1.00	82.7
2.25	82.9
4.00	83.3
8.20	83.5
16.00	83.8
25.00	83.9
36.00	84.1
49.00	84.3
64.00	84.3
81.00	84.4
100.00	84.4
144.00	84.4
300.00	84.6
520.00	84.6
700.00	84.6
960.00	84.8
1440.00	84.8



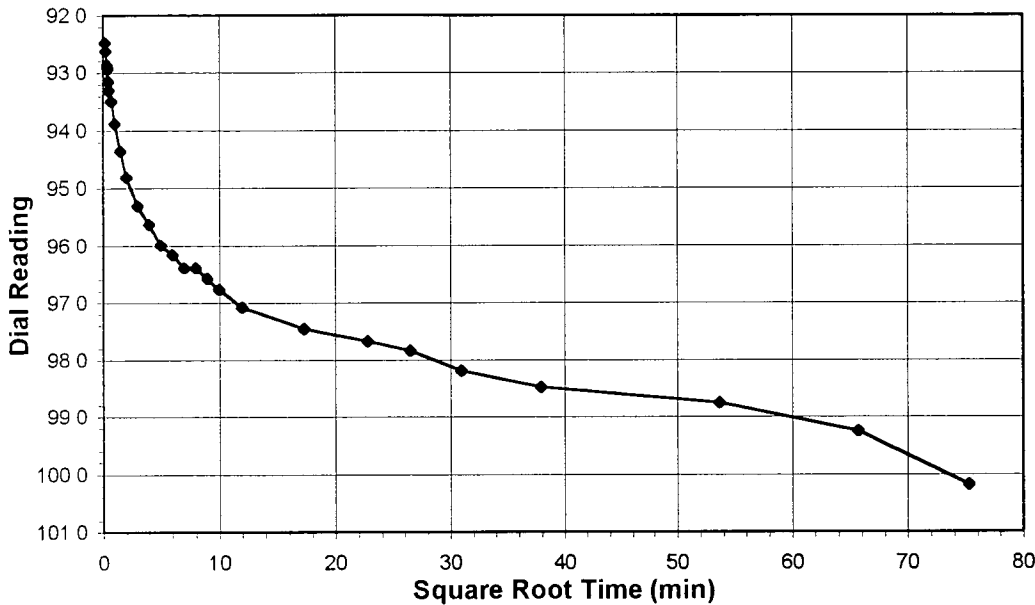
Tested By TM Date 3/9/05 Checked By GU Date 3/23/05

# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

Client	BLASLAND, BOUCK, & LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-04	Sample No.	SS58-R-POST S/T
Lab ID	2004-221-04-08	Visual Description	BROWNISH GRAY STABILIZED MATERIAL

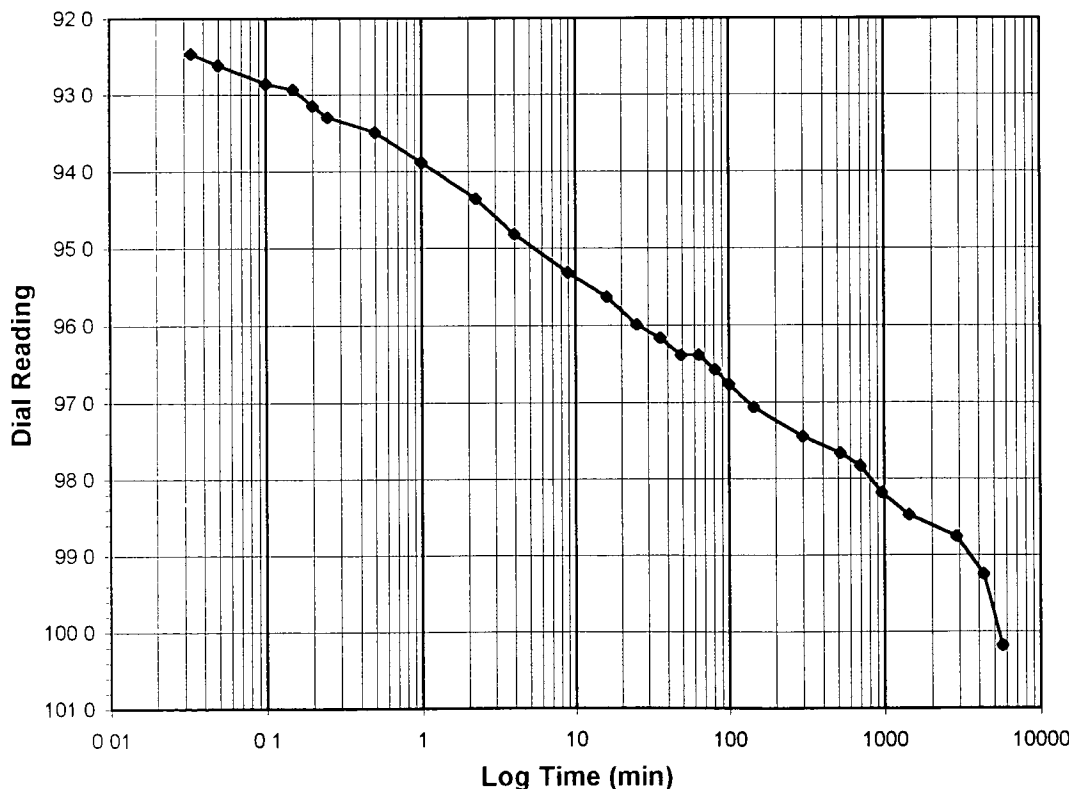
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf)	2.0-4.0
Final Reading (div)	100.2
Consolidometer No.	3
1 Division (in)	0.0001

Start Date	3/10/05
Start Time	10:53:50

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>84.8</b>
0.03	92.5
0.05	92.6
0.10	92.9
0.15	92.9
0.20	93.2
0.25	93.3
0.50	93.5
1.00	93.9
2.25	94.4
4.00	94.8
8.89	95.3
16.02	95.6
25.00	96.0
36.00	96.2
49.00	96.4
64.00	96.4
81.00	96.6
100.02	96.8
144.00	97.1
300.00	97.5
520.00	97.7
700.00	97.8
960.00	98.2
1440.00	98.5
2880.00	98.8
4320.00	99.3
5671.73	100.2



Tested By *TM* Date *3/10/05* Checked By *GU* Date *3/23/05*



# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

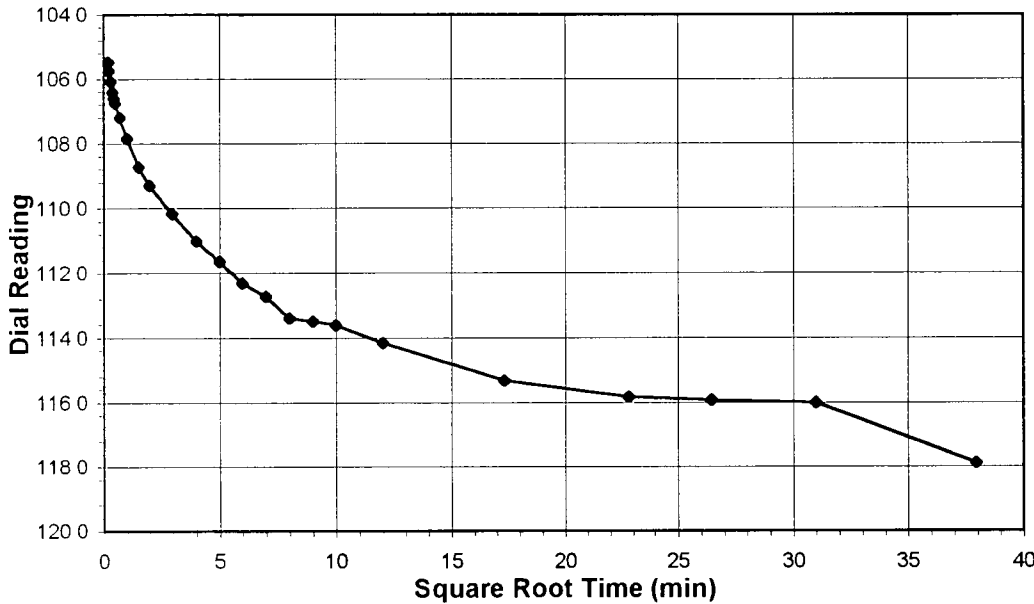
Client  
Client Project  
Project No.  
Lab ID

BLASLAND, BOUCK, & LEE  
GEHR TREATABILITY 204.302  
2004-221-04  
2004-221-04-08

Boring No.  
Depth (ft)  
Sample No.  
Visual Description

9/22/04  
NA  
SS58-R-POST S/T  
BROWNISH GRAY  
STABILIZED MATERIAL

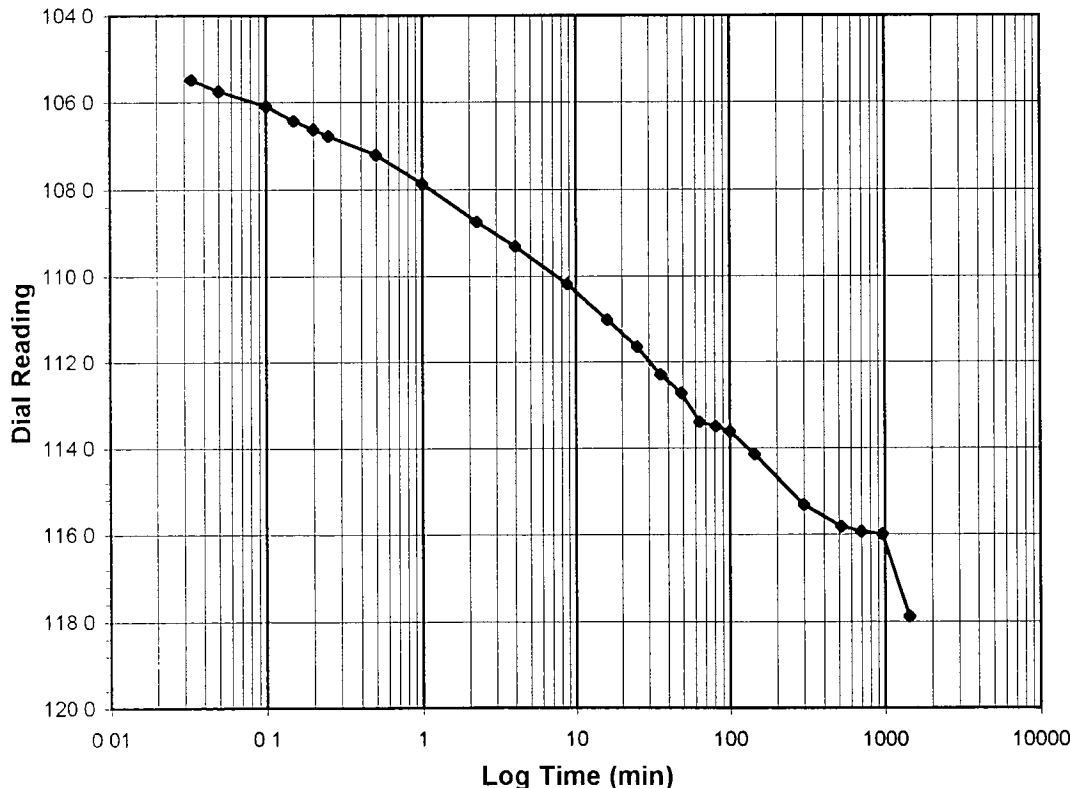
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 4.0-8.0  
Final Reading (div) 117.9  
Consolidometer No. 3  
1 Division (in) 0.0001

Start Date 3/14/05  
Start Time 9:27:41

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>100.2</b>
0.03	105.5
0.05	105.7
0.10	106.1
0.15	106.4
0.20	106.6
0.25	106.8
0.50	107.2
1.00	107.9
2.25	108.7
4.00	109.3
8.78	110.2
16.00	111.0
25.00	111.7
36.00	112.3
49.00	112.7
64.00	113.4
81.00	113.5
100.00	113.6
144.00	114.2
300.02	115.3
520.00	115.8
700.00	115.9
960.00	116.0
1440.00	117.9



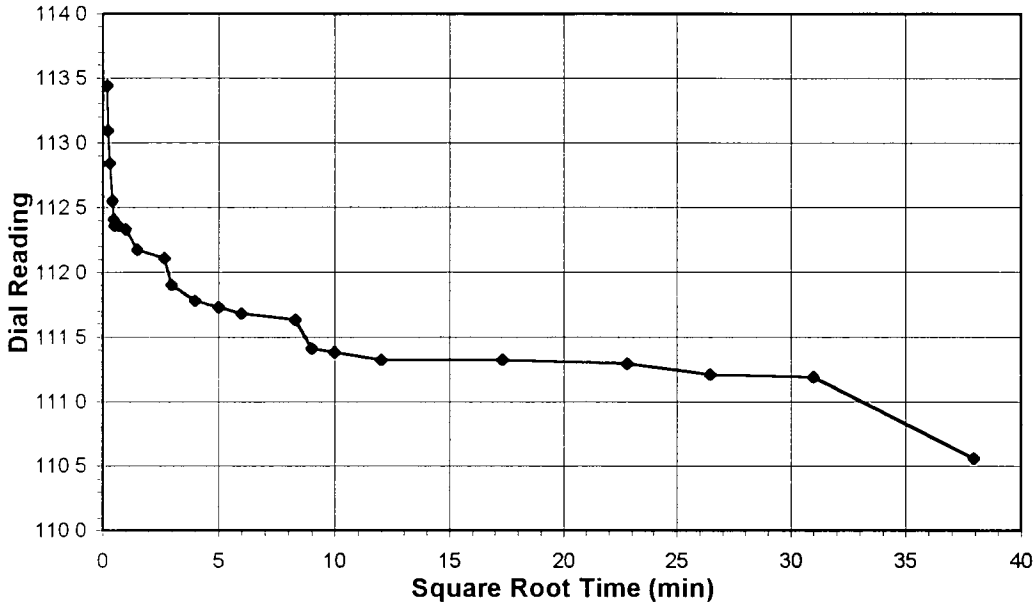
Tested By *TM* Date *3/14/05* Checked By *(Signature)* Date *3/23/05*



**ONE DIMENSIONAL CONSOLIDATION**  
ASTM D 2435-96 (SOP-S24A)

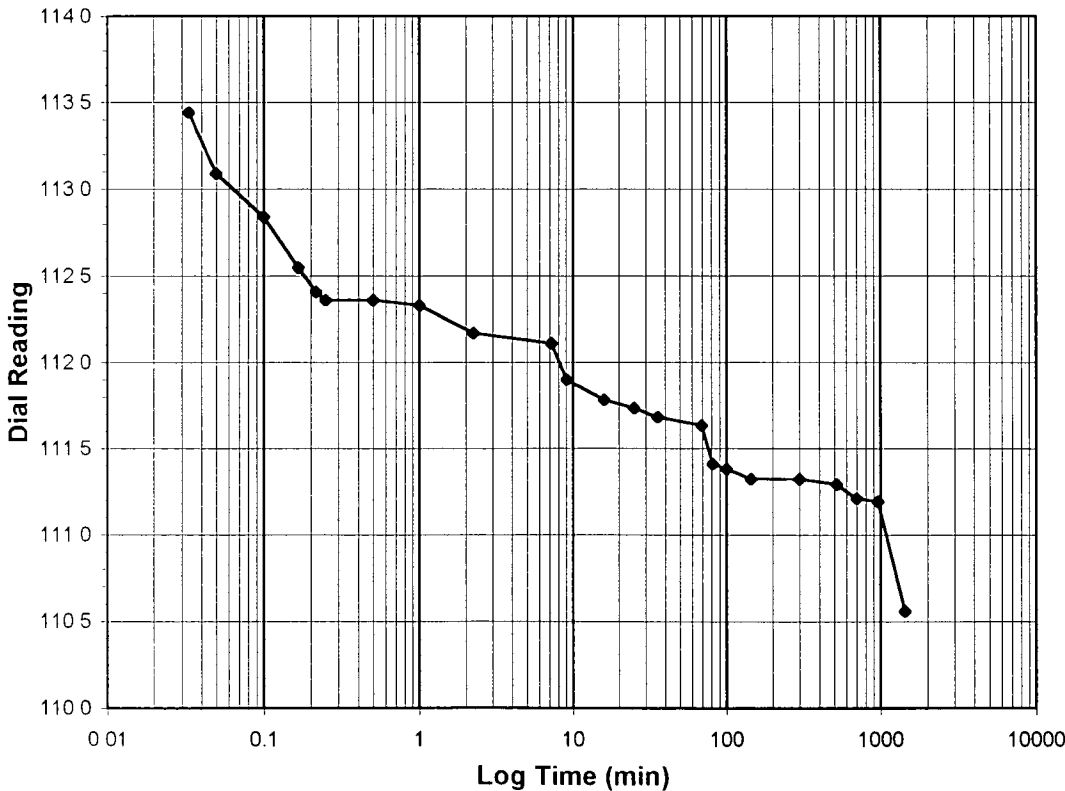
Client	BLASLAND, BOUCK, & LEE	Boring No.	9/22/04
Client Project	GEHR TREATABILITY 204.302	Depth (ft)	NA
Project No.	2004-221-04	Sample No.	SS58-R-POST S/T
Lab ID	2004-221-04-08	Visual Description	BROWNISH GRAY STABILIZED MATERIAL

**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



<b>Test Load (tsf)</b>	<b>8.0-4.0</b>
<b>Final Reading (div)</b>	<b>110.6</b>
Consolidometer No.	3
1 Division (in)	0.0001
<b>Start Date</b>	<b>3/15/05</b>
<b>Start Time</b>	<b>9:51:25</b>

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>117.9</b>
0.03	113.4
0.05	113.1
0.10	112.8
0.17	112.6
0.22	112.4
0.25	112.4
0.50	112.4
1.00	112.3
2.25	112.2
7.23	112.1
9.05	111.9
16.00	111.8
25.02	111.7
36.00	111.7
69.25	111.6
81.00	111.4
100.00	111.4
144.00	111.3
300.00	111.3
520.00	111.3
700.00	111.2
960.00	111.2
1440.00	110.6



Tested By **TM** Date **3/15/05** Checked By **GO** Date **3/23/05**





# ONE DIMENSIONAL CONSOLIDATION

ASTM D 2435-96 (SOP-S24A)

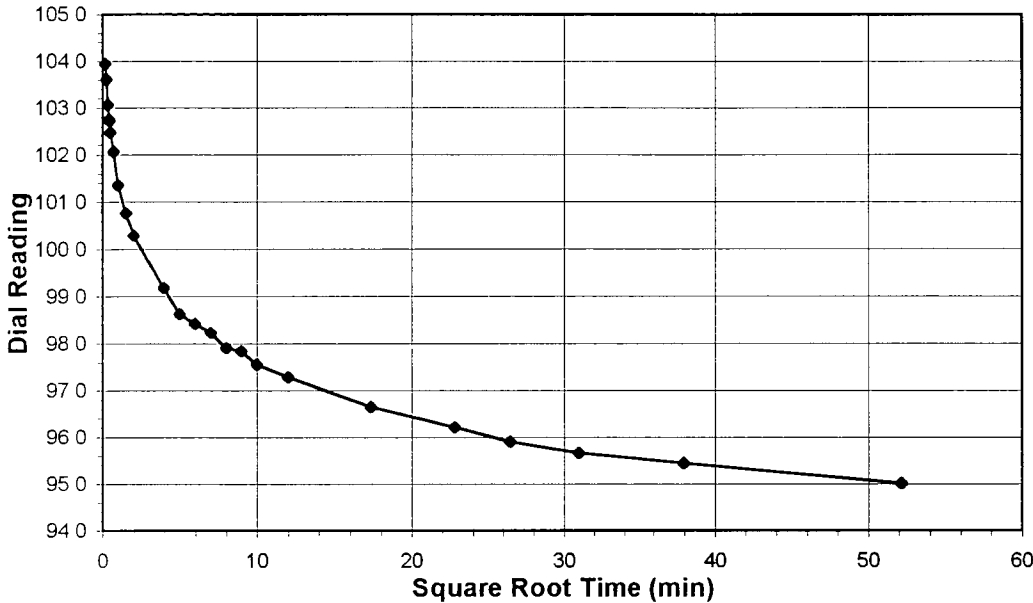
Client  
Client Project  
Project No.  
Lab ID

BLASLAND, BOUCK, & LEE  
GEHR TREATABILITY 204.302  
2004-221-04  
2004-221-04-08

Boring No.  
Depth (ft)  
Sample No.  
Visual Description

9/22/04  
NA  
SS58-R-POST S/T  
BROWNISH GRAY  
STABILIZED MATERIAL

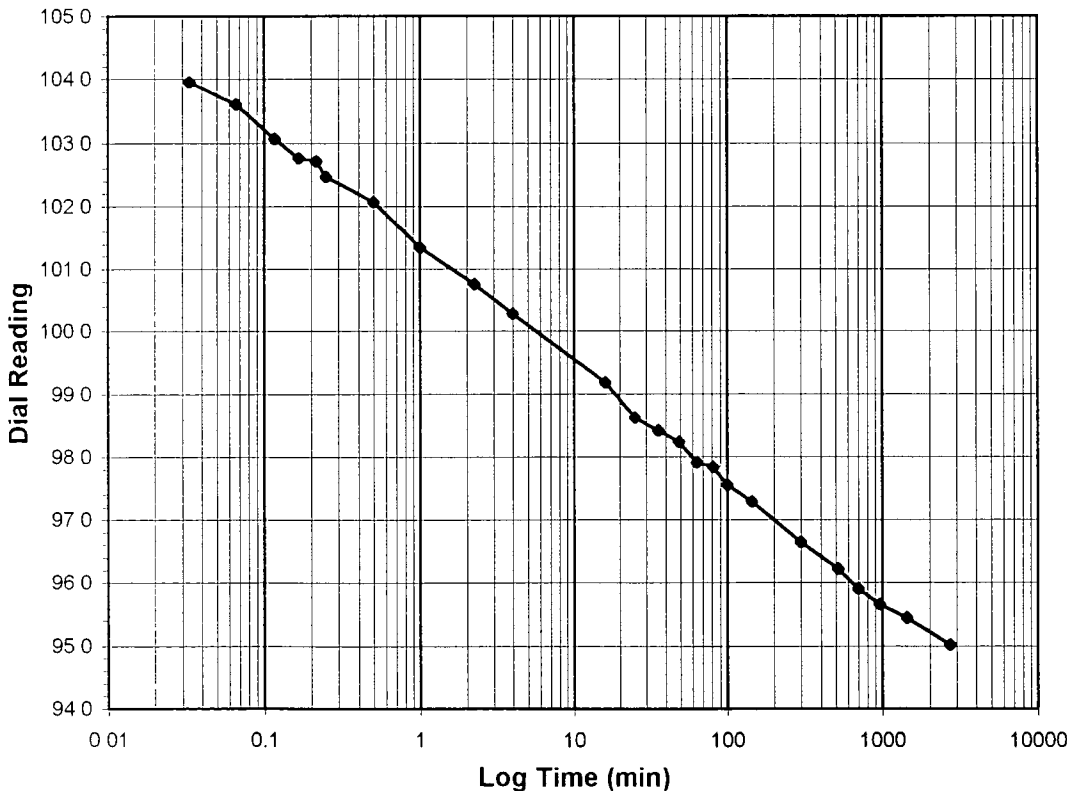
**Sample Conditions:** REMOLDED, INUNDATED AND DOUBLE DRAINED



**Test Load (tsf)** 4.0-1.0  
**Final Reading (div)** 95.0  
Consolidometer No. 3  
1 Division (in) 0.0001

**Start Date** 3/16/05  
**Start Time** 11:44:01

Elapsed Time (min)	Dial Reading (div)
<i>Initial</i>	<b>110.6</b>
0.03	104.0
0.07	103.6
0.12	103.1
0.17	102.8
0.22	102.7
0.25	102.5
0.50	102.1
1.00	101.4
2.25	100.8
4.00	100.3
16.00	99.2
25.00	98.6
36.00	98.4
49.00	98.2
64.00	97.9
81.00	97.8
100.00	97.6
144.00	97.3
300.00	96.7
520.00	96.2
700.00	95.9
960.00	95.7
1440.00	95.4
2717.67	95.0



Tested By *TM* Date *3/16/05* Checked By *GO* Date *3/23/05*



# ONE DIMENSIONAL CONSOLIDATION

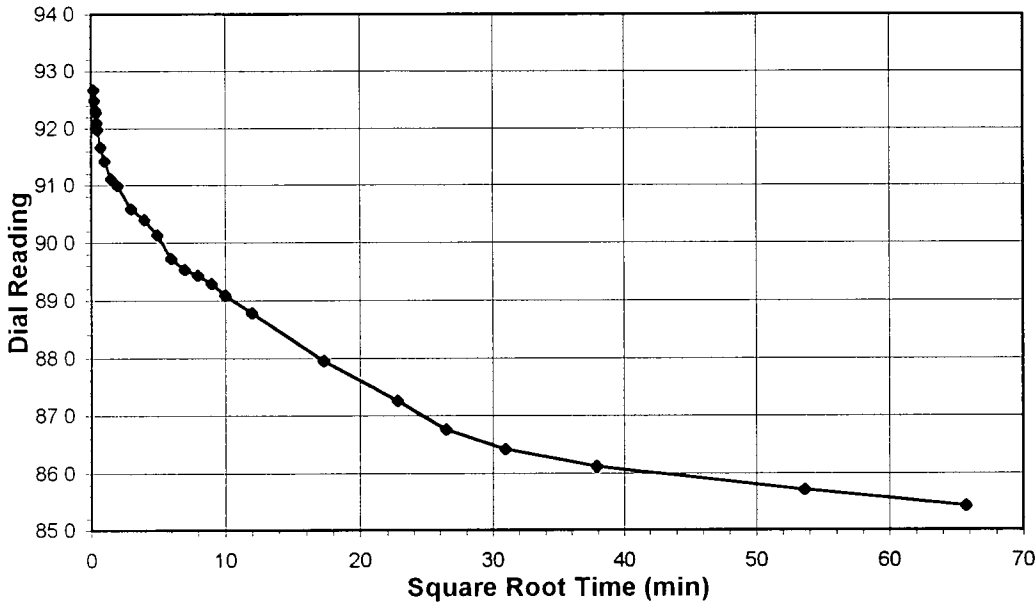
ASTM D 2435-96 (SOP-S24A)

Client: BLASLAND, BOUCK, & LEE  
 Client Project: GEHR TREATABILITY 204.302  
 Project No.: 2004-221-04  
 Lab ID: 2004-221-04-08

Boring No.:  
 Depth (ft):  
 Sample No.:  
 Visual Description:

9/22/04  
 NA  
 SS58-R-POST S/T  
 BROWNISH GRAY  
 STABILIZED MATERIAL

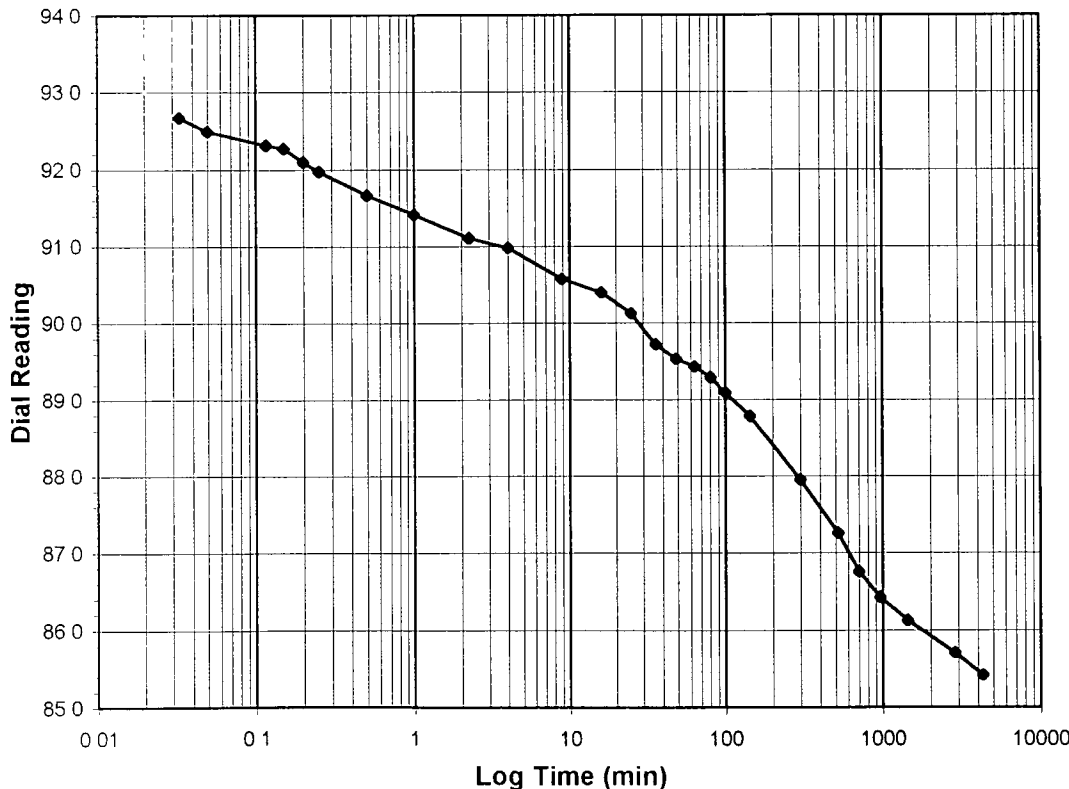
Sample Conditions: REMOLDED, INUNDATED AND DOUBLE DRAINED



Test Load (tsf) 1.0-0.25  
 Final Reading (div) 85.4  
 Consolidometer No. 3  
 1 Division (in) 0.0001

Start Date 3/18/05  
 Start Time 9:11:49

Elapsed Time (min)	Dial Reading (div)
<b>Initial</b>	<b>95.0</b>
0.03	92.7
0.05	92.5
0.12	92.3
0.15	92.3
0.20	92.1
0.25	92.0
0.50	91.7
1.00	91.4
2.25	91.1
4.00	91.0
8.89	90.6
16.00	90.4
25.00	90.1
36.00	89.7
49.00	89.5
64.00	89.4
81.00	89.3
100.00	89.1
144.00	88.8
300.00	88.0
520.00	87.3
700.00	86.8
960.00	86.4
1440.00	86.1
2880.00	85.7
4320.00	85.4



Tested By TM Date 3/18/05 Checked By GU Date 3/23/05