474

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2-205.1

GEOTECHNICAL INVESTIGATION ON-SITE DIEPOSAL FACILITY SOIL INVESTIGATION DATA REPORT VOLS 1-7, OPERABLE UNIT 2 PROJECT ORDER 140, (UNDER SUBCONTRACT NO. 7663S0018 TO PARSONS)

08/18/95

7663S0018
FDF/DOE-FN PUBLIC
2000
REPORT

474

GEOTECHNICAL INVESTIGATION ON-SITE DISPOSAL FACILITY

SOIL INVESTIGATION DATA REPORT

VOLUME 1

Operable Unit 2
Project Order 140

August 18, 1995

for
PARSONS, Environmental Remedial Action Project
Fernald Environmental Management Project
Fernald, Ohio

by
Science Applications International Corporation
14062 Denver West Parkway, Suite 200
Golden, Colorado 80401
(303) 279-7242

Under Subcontract No. 7663S0018 to PARSONS

1 G_s

M_c

~~[illegible]~~ / M_c

Organic

Limits

2 Grain size

3 Consolidation

4 Triax

UU

CU

5 Triax

CU

Perms

6 Perms

Proctors

7 Shelby description

CBR

Direct Shear

Aggregate

Chem analysis

Science Applications International Corporation
An Employee-Owned Company

August 21, 1995

Mr. Kevin Ernst
PARSONS
6120 South Gilmore Road
Fairfield, Ohio 45014

Re: PARSONS Subcontract No. 7663S0018
Soil Investigation Data Report for P.O. 140
Geotechnical Investigation On-Site Disposal Facility

Dear Mr. Ernst:

Enclosed, please find six sets of Volumes 1 through 6 of our Soil Investigation Data Report for Project Order 140 relating to the Disposal Facility. With the set sent on Friday, this makes a total of seven sets delivered to you.

We appreciate the opportunity of assisting PARSONS with this remedial action project.

Sincerely,

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION

Dermot Ross-Brown, Ph.D.
P.E. Ohio (License No. E-53576)
Project Manager

DRB/jak
Enclosure

cc: S. Berouty, SAIC (w/o enclosure)
D. Jordon, PARSONS (w/o enclosure)

14062 Denver West Parkway, Suite 200, Golden, Colorado 80401-3121 • (303) 279-7242 • FAX: (303) 279-5525
Other SAIC Offices: Albuquerque, Boston, Colorado Springs, Dayton, Falls Church, Huntsville, Las Vegas, Los Angeles, McLean, Oak Ridge, Orlando, Palo Alto, Seattle, Tucson

GEOTECHNICAL INVESTIGATION ON-SITE DISPOSAL FACILITY

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2.0 LABORATORY TESTING 2
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Appendix A - Laboratory Testing Results A-1

1.0 INTRODUCTION

1.1 General

An Environmental Remedial Action is in progress at the U.S. Department of Energy's Fernald Environmental Management Project (FEMP) near Fernald, Ohio. As part of this action, a pre-design geotechnical investigation for the FEMP Disposal Facility is being conducted; the area of investigation is along the eastern portion of the FEMP property. Geotechnical field work (by others) consisted of advancing fifteen relatively deep borings and seventeen shallow borings at the site. Soil samples collected during drilling were shipped to SAIC's subcontractor, Advanced Terra Testing (ATT), Lakewood, Colorado, for geotechnical testing. Aggregates and riprap from off-site sources were shipped to Aguirre Engineers, Inc., Englewood, Colorado for aggregate testing. Eight soil samples were shipped to Accu-Labs Research, Inc., Golden, Colorado for chloride and sulfate analysis. The data derived from this program will be used by others to design the FEMP Disposal Facility.

1.2 Responsibilities

Soil samples were obtained during drilling activities in the Spring of 1995. These were shipped to ATT, Aguirre, and Accu-Labs where selected samples were then tested to determine the engineering and chemical properties of the subsurface materials.

2.0 LABORATORY TESTING

All samples at ATT were screened for radioactivity when first received, in compliance with Department of Health regulations for the State of Colorado. Descriptive logs were prepared for each tube sample.

At all three laboratories, samples were selected according to the Request for Analysis forms received from PARSONS. The types of tests performed, using appropriate ASTM and EPA methods, are listed in the Table of Contents and the Index to Test Results. These indices are included at the front of Volumes 1, 2, 4, 6 and 7.

The individual descriptive logs and all the test results are included in Appendix A, which follows.

Volume 7 contains the original photographs of test specimens for tests already reported in the previous 6 volumes. Other than the photographs themselves, this volume contains no new data, and only one copy of this report is being issued to PARSONS. To facilitate cross-referencing the page numbers are the same as in the earlier volumes.

APPENDIX A

Table of Contents - Laboratory Results

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Specific Gravity
Boring No. G2-124 2
Boring No. G2-126 2
Boring No. G2-127 8
Boring No. G2-128 5
Boring No. G2-129 5
Boring No. G2-130 4
Boring No. G2-131 11
Boring No. G2-132 7
Boring No. G2-133 8
Boring No. G2-SB-1 9
Boring No. G2-SB-2 11
Boring No. G2-SB-3 3
Boring No. G2-SB-4 9
Boring No. G2-SB-5 9
Boring No. G2-SB-6 3
Boring No. G2-SB-7 3
Boring No. G2-SB-8 3
Boring No. G2-SB-10 3
Boring No. G2-SB-11 9
Boring No. G2-SB-12 3
Boring No. G2-SB-2,3,4,6 2
Boring No. G2-SB-8,9,10,11 2

Moisture Content (D2216)
Boring No. G2-120 19
Boring No. G2-121 19
Boring No. G2-122 19
Boring No. G2-123 19
Boring No. G2-124 13
Boring No. G2-125 20
Boring No. G2-126 17
Boring No. G2-127 23
Boring No. G2-128 22
Boring No. G2-129 22
Boring No. G2-130 17
Boring No. G2-131 15
Boring No. G2-132 19
Boring No. G2-133 23
Boring No. G2-134 22
Boring No. G2-SB-1 18
Boring No. G2-SB-2 18

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Boring No. G2-SB-4 18
Boring No. G2-SB-5 16
Boring No. G2-SB-6 18
Boring No. G2-SB-7 16
Boring No. G2-SB-8 18
Boring No. G2-SB-9 20
Boring No. G2-SB-10 16
Boring No. G2-SB-11 16
Boring No. G2-SB-12 18
Boring No. G2-SB-13 20
Boring No. G2-SB-14 20
Boring No. G2-SB-16 14
Boring No. G2-SB-17 14
Boring No. G2-SB-2,3,4,6 18
Boring No. G2-SB-8,9,10,11 16

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Boring No. G2-120 27
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Boring No. G2-122 27
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Boring No. G2-125 27
Boring No. G2-126 28
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Boring No. G2-129 30
Boring No. G2-130 30
Boring No. G2-133 30

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Boring No. G2-SB-6 34
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Boring No. G2-SB-9 32
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Boring No. G2-122 53
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Boring No. G2-124 71
Boring No. G2-125 77
Boring No. G2-126 89
Boring No. G2-127 104
Boring No. G2-128 113
Boring No. G2-129 125
Boring No. G2-130 134
Boring No. G2-131 149
Boring No. G2-132 164
Boring No. G2-133 176
Boring No. G2-134 191
Boring No. G2-SB-1 194
Boring No. G2-SB-2 197
Boring No. G2-SB-3 200
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Boring No. G2-SB-5 206
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Boring No. G2-SB-7 212
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Hydrometer Analyses with Mechanical Grain Size Analysis

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Boring No. G2-121 240
Boring No. G2-122 249
Boring No. G2-123 258
Boring No. G2-124 267
Boring No. G2-125 303
Boring No. G2-126 315
Boring No. G2-127 357
Boring No. G2-128 366
Boring No. G2-129 378
Boring No. G2-130 387
Boring No. G2-131 423
Boring No. G2-132 450
Boring No. G2-133 462
Boring No. G2-134 477
Boring No. G2-SB-1 480
Boring No. G2-SB-2 483
Boring No. G2-SB-3 486
Boring No. G2-SB-4 489
Boring No. G2-SB-5 492
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Boring No. G2-SB-7 498
Boring No. G2-SB-8 501
Boring No. G2-SB-9 504
Boring No. G2-SB-10 507
Boring No. G2-SB-11 510
Boring No. G2-SB-12 513
Boring No. G2-SB-13 516
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Volume 3

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Boring No. G2-124 533
Boring No. G2-126 543
Boring No. G2-127 563
Boring No. G2-128 573
Boring No. G2-130 583
Boring No. G2-131 593
Boring No. G2-133 623

Consolidation Test - Saturated
Boring No. G2-126 634
Boring No. G2-127 644
Boring No. G2-131 654
Boring No. G2-133 674

Consolidation Test - Remolded to 95% MDD
Boring No. G2-124 685
Boring No. G2-126 695
Boring No. G2-130 705
Boring No. G2-SB-4 715
Boring No. G2-SB-7 725

Consolidation Test - Remolded to 85% MDD
Boring No. G2-120 736
Boring No. G2-124 746
Boring No. G2-126 756
Boring No. G2-128 766
Boring No. G2-130 776
Boring No. G2-SB-1 786
Boring No. G2-SB-4 796
Boring No. G2-SB-7 806
Boring No. G2-SB-11 816
Boring No. G2-SB-2,3,4,6,Top Soil 826
Boring No. G2-SB-8,9,10,11 836

Volume 4

Triaxial Shear Test - TX/UU, Saturated
Boring No. G2-127 847
Boring No. G2-128 851
Boring No. G2-129 855
Boring No. G2-130 859
Boring No. G2-131 867
Boring No. G2-132 879

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Boring No. G2-133 887
Boring No. G2-134 891

Triaxial Shear Test - TX/UU, Field Moisture
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Boring No. G2-124 899
Boring No. G2-125 902
Boring No. G2-126 908

Triaxial Shear Test - TX/UU, Saturated, Remolded to 95% MDD
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Boring No. G2-127 916
Boring No. G2-131 920
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Boring No. G2-134 928

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Boring No. G2-122 933
Boring No. G2-127 937
Boring No. G2-134 941

Triaxial Shear, Consolidated, Undrained with Pore Pressure Measurements - TX/CUpp, 3 Points
Boring No. G2-127 946
Boring No. G2-129 961
Boring No. G2-130 976
Boring No. G2-132 1006
Boring No. G2-133 1021

Volume 5

Triaxial Shear, Consolidated, Undrained with Pore Pressure Measurements - TX/CUpp Staged 3 Points
Boring No. G2-121 1037
Boring No. G2-122 1052
Boring No. G2-123 1067
Boring No. G2-124 1097
Boring No. G2-125 1112
Boring No. G2-126 1127

Triaxial Shear, Consolidated, Undrained with Pore Pressure Measurements - TX/CUpp Remolded to 95% MDD 3 Points
Boring No. G2-128 1143

Triaxial Shear, Consolidated, Undrained with Pore Pressure Measurements - TX/CUpp Remolded to 95% MDD Staged - 3 Points
Boring No. G2-125 1159
Boring No. G2-126 1174
Boring No. G2-130 1189

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Boring No. G2-132 1204

Triaxial Shear, Consolidated, Undrained with Pore Pressure Measurements - TX/CUpp Remolded to 85% MDD 3 Points
Boring No. G2-122 1220

Triaxial Shear, Consolidated, Undrained with Pore Pressure Measurements - TX/CUpp Remolded to 85% MDD Staged - 3 Points
Boring No. G2-133 1236

Triaxial, Back Pressure Permeability - TX/PBP
Boring No. G2-121 1252
Boring No. G2-123 1260
Boring No. G2-126 1264
Boring No. G2-127 1268
Boring No. G2-132 1272
Boring No. G2-133 1276

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Triaxial, Back Pressure Permeability - TX/PBP Remolded to 95% MDD
Boring No. G2-SB-1 1285
Boring No. G2-SB-2 1289
Boring No. G2-SB-3 1293
Boring No. G2-SB-4 1297
Boring No. G2-SB-5 1301
Boring No. G2-SB-6 1305
Boring No. G2-SB-7 1309
Boring No. G2-SB-8 1313
Boring No. G2-SB-9 1317
Boring No. G2-SB-10 1321
Boring No. G2-SB-11 1325
Boring No. G2-SB-12 1329
Boring No. G2-SB-13 1333
Boring No. G2-SB-14 1337

Proctor Compaction - Standard
Boring No. G2-SB-1 1342
Boring No. G2-SB-2 1344
Boring No. G2-SB-3 1346
Boring No. G2-SB-4 1348
Boring No. G2-SB-5 1350
Boring No. G2-SB-6 1352
Boring No. G2-SB-7 1354
Boring No. G2-SB-8 1356
Boring No. G2-SB-9 1358
Boring No. G2-SB-10 1360

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Boring No. G2-SB-11 1362
Boring No. G2-SB-12 1364
Boring No. G2-SB-13 1366
Boring No. G2-SB-14 1368
Boring No. G2-SB-15 1371
Boring No. G2-SB-16 1373
Boring No. G2-SB-17 1375
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Shelby Tube Descriptive Logs
Boring No. G2-SB-120 1382
Boring No. G2-SB-121 1383
Boring No. G2-SB-122 1385
Boring No. G2-SB-123 1388
Boring No. G2-SB-124 1391
Boring No. G2-SB-125 1393
Boring No. G2-SB-126 1397
Boring No. G2-SB-127 1402
Boring No. G2-SB-128 1405
Boring No. G2-SB-129 1409
Boring No. G2-SB-130 1412
Boring No. G2-SB-131 1417
Boring No. G2-SB-132 1421
Boring No. G2-SB-133 1425
Boring No. G2-SB-134 1430

California Bearing Ratio
Boring No. G2-SB-15 1432
Boring No. G2-SB-16 1439
Boring No. G2-SB-17 1443

Large Scale Interface Direct Shear Tests
Report of a Three-Test Series Using Selected Georynthetics and Soils from FEMP 1450

Aggregate Tests
Report of Four Types of TestsPreformed on Aggregates and Riprap 1468

Chemical Analysis
Report of Chloride and Sulfate Analysis of FEMP Soils 1475

INDEX TO TEST RESULTS

Test	Boring No.	Depth (ft)	Sample No.	Vol.	Page No.
Specific Gravity (D854)	G2-124	10-12	405004	1	2
	"	50-51.5	405016	1	11
	G2-126	7.5-9.5	404768	1	8
	"	15-17	404773	1	2
	"	25-27	404778	1	8
	"	35-37	404783	1	11
	"	40-41.5	404785	1	10
	"	45-46.5	404786	1	6
	"	50-51.5	404787	1	10
	"	55-56.5	404788	1	4
	"	60-61.5	404789	1	6
	"	65-66.5	404790	1	4
	"	70-71.5	404791	1	6
	"	75-76.5	404792	1	6
	"	80-81.5	404793	1	10
	G2-127	7.5-9.5	404751	1	11
	"	15-17	404756	1	8
	G2-128	12.5-14.5	405046	1	5
	"	17.5-19.5	405049	1	5
	G2-129	5-7.5	404729	1	5
	"	10-12.5	404732	1	5
	"	24-26.5	404740	1	5
	G2-130	5-7	405075	1	7
	"	10-12	405077	1	10
	"	15-17	405080	1	10
	"	20-22	405083	1	10
	"	30-32	405088	1	7
	"	40-41.5	405091	1	6

Test	Boring No.	Depth (ft)	Sample No.	Vol.	Page No.
Specific Gravity (cont.)	G2-130 cont.	45-46.5	405092	1	6
	"	55-56.5	405094	1	4
	"	65-66.5	405096	1	4
	"	70-71.5	405097	1	10
	"	75-76.5	405098	1	4
	"	80-81.5	405099	1	4
	G2-131	7.5-9.5	404704	1	11
	"	17.5-19.5	404709	1	11
	"	27.5-29.5	404713	1	11
	"	45-47	404719	1	11
	G2-132	5-7	405102	1	7
	"	10-12	405105	1	7
	"	15-17	405108	1	7
	"	20-22	405111	1	7
	G2-133	7.5-9.5	405055	1	8
	"	15-17	405059	1	8
	"	17.5-19.5	405061	1	8
	"	25-27	405065	1	8
	G2-SB-1	1.5-5	404608	1	9
	G2-SB-2	1.5-5	404603	1	11
	G2-SB-3	1.5-5	404591	1	3
	G2-SB-4	1.5-5	404615	1	9
	G2-SB-5	1.5-5	404627	1	9
	G2-SB-6	1.5-5	404595	1	3
	G2-SB-7	1.5-5	404632	1	3
	G2-SB-8	1.5-5	404621	1	3
	G2-SB-10	1.5-5	404637	1	3
	G2-SB-11	1.5-5	404642	1	9
	G2-SB-12	1.5-4.2	404599	1	3

Test	Boring No.	Depth (ft)	Sample No.	Vol.	Page No.
Specific Gravity (cont.)	G2-SB-2,3,4,6	0-1.5	404617	1	2
	G2-SB-8,9,10,11	0-1.5	404644	1	2
Moisture Content (D2216)	G2-120	5-7	405124	1	19
	G2-121	12.5-14.5	404814	1	19
	"	17.5-19.5	404817	1	19
	G2-122	5-7	404821	1	24
	"	10-12	404824	1	19
	"	15-17	404827	1	19
	G2-123	12.5-14.5	404800	1	19
	G2-124	25-26.5	405011	1	13
	"	30-31.5	405012	1	13
	"	35-36.5	405013	1	13
	"	40-41.5	405014	1	13
	"	45-46.5	405015	1	13
	"	50-51.5	405016	1	13
	"	55-56.5	405017	1	13
	"	60-61.5	405018	1	13
	"	65-66.5	405019	1	15
	"	70-71.5	405020	1	15
	"	80-82	405021	1	15
	G2-125	2.5-4.5	405023	1	20
	"	7.5-9.5	405026	1	20
	"	17.5-19.5	405033	1	20
	G2-126	12.5-14.5	404771	1	23
	"	25-27	404778	1	22
	"	25-27	404778	1	24
	"	35-37	404783	1	24
	"	40-41.5	404785	1	21
	"	45-46.5	404786	1	21

Test	Boring No.	Depth (ft)	Sample No.	Vol.	Page No.
Moisture Content (cont.)	G2-126 con.t	50-51.5	404787	1	21
	"	55-56.5	404788	1	21
	"	60-61.5	404789	1	21
	"	65-66.5	404790	1	21
	"	70-71.5	404791	1	21
	"	75-76.5	404792	1	21
	"	80-81.5	404793	1	17
	G2-127	28-30	404763	1	23
	G2-128	2.5-4.5	405040	1	22
	"	17.5-19.5	405049	1	22
	G2-129	5-7.5	404729	1	22
	"	10-12.5	404732	1	22
	"	10-12.5	404732	1	24
	G2-130	5-7	405075	1	23
	"	20-22	405083	1	23
	"	40-41.5	405091	1	17
	"	45-46.5	405092	1	17
	"	55-56.5	405094	1	17
	"	65-66.5	405096	1	17
	"	70-71.5	405097	1	17
	"	75-76.5	405098	1	17
	"	80-81.5	405099	1	17
	G2-131	7.5-9.5	404704	1	20
	"	45-47	404719	1	24
	"	60-61.5	404723	1	15
	"	65-66.5	404724	1	15
	"	70-71.5	404725	1	15
	"	75-76.5	404726	1	15
	"	81-82.3	404727	1	15

Test	Boring No.	Depth (ft)	Sample No.	Vol.	Page No.
Moisture Content (cont.)	G2-132	5-7	405102	1	22
	"	10-12	405105	1	19
	"	20-22	405111	1	19
	"	20-22	405111	1	24
	G2-133	2.5-4.5	405053	1	23
	"	15-17	405059	1	23
	"	17.5-19.5	405061	1	23
	"	25-27	405065	1	23
	G2-134	12-14	405140	1	22
	G2-SB-1	1.5-5	404608	1	18
	G2-SB-2	1.5-5	404603	1	18
	G2-SB-3	1.5-5	404591	1	18
	G2-SB-4	1.5-5	404615	1	18
	G2-SB-5	1.5-5	404627	1	16
	G2-SB-6	1.5-5	404595	1	18
	G2-SB-7	1.5-5	404632	1	16
	G2-SB-8	1.5-5	404621	1	18
	G2-SB-9	1.5-5	404587	1	20
	G2-SB-10	1.5-5	404637	1	16
	G2-SB-11	1.5-5	404642	1	16
	G2-SB-12	1.5-4.2	404599	1	18
	G2-SB-13	1.5-5	404583	1	20
	G2-SB-14	1.5-5	404578	1	20
	G2-SB-16	1-2	404650	1	14
	"	1-2	404650	1	14
	G2-SB-17	1-2	405366	1	14
	"	1-2	405366	1	14
	G2-SB-2,3,4,6	0-1.5	404617	1	18
	G2-SB-8,9,10,11	0-1.5	404644	1	16

Test	Boring No.	Depth (ft)	Sample No.	Vol.	Page No.
Moisture Content-Microwave (D4643)	G2-120	5-7	405124	1	27
	G2-121	12.5-14.5	404814	1	27
	G2-122	5-7	404821	1	28
	"	10-12	404824	1	27
	G2-123	12.5-14.5	404800	1	26
	G2-125	2.5-4.5	405023	1	27
	G2-126	25-27	404778	1	28
	"	35-37	404783	1	28
	G2-129	5-7.5	404729	1	27
	"	10-12.5	404732	1	28
	G2-130	5-7	405075	1	26
	G2-131	7.5-9.5	404704	1	26
	"	7.5-9.5	404704	1	27
	"	45-47	404719	1	28
	G2-132	5-7	405102	1	27
	"	10-12	405105	1	26
	"	20-22	405111	1	28
	G2-SB-16	1-2	404650	1	26
	"	1-2	404650	1	26
	G2-SB-17	1-2	405366	1	26
	"	1-2	405366	1	26
Moisture and Density (D2216 and D2937)	G2-122	15-17	404827	1	30
	G2-125	2.5-4.5	405023	1	30
	G2-126	12.5-14.5	404771	1	30
	G2-128	7.5-9.5	405043	1	30
	"	17.5-19.5	405049	1	30
	G2-129	10-12.5	404732	1	30
	G2-130	20-22	405083	1	30

Test	Boring No.	Depth (ft)	Sample No.	Vol.	Page No.
Moisture and Density (cont.)	G2-133	2.5-4.5	405053	1	30
Organic Matter Content (D2974) (with pertinent moisture content analyses on pages 33A, 33B, 35A, 35B, 36A, 38A, 38B)	G2-SB-1	0-0.5	404605	1	37
	"	0.5-1	404606	1	34
	"	1-1.5	404607	1	38
	G2-SB-2	0-0.5	404600	1	38
	"	0.5-1	404601	1	37
	"	1-1.5	404602	1	38
	G2-SB-3	0-0.5	404588	1	37
	"	0.5-1	404589	1	34
	"	1-1.5	404590	1	35
	G2-SB-4	0-0.5	404612	1	38
	"	0.5-1	404613	1	38
	"	1-1.5	404614	1	37
	G2-SB-5	0-0.5	404624	1	37
	"	0.5-1	404625	1	37
	"	1-1.5	404626	1	36
	G2-SB-6	0-0.5	404592	1	35
	"	0.5-1	404593	1	34
	"	1-1.5	404594	1	34
	G2-SB-7	0-0.5	404629	1	34
	"	0.5-1	404630	1	35
	"	1-1.5	404631	1	36
	G2-SB-8	0-0.5	404618	1	37
	"	0.5-1	404619	1	37
	"	1-1.5	404620	1	36
	G2-SB-9	0-0.5	404584	1	32
	"	0.5-1	404585	1	32
	"	1-1.5	404586	1	32
	G2-SB-10	0-0.5	404634	1	35

Test	Boring No.	Depth (ft)	Sample No.	Vol.	Page No.
Organic Matter Content (cont.)	G2-SB-10	0.5-1	404635	1	34
	"	1-1.5	404636	1	34
	G2-SB-11	0-0.5	404639	1	39
	"	0.5-1	404640	1	39
	"	1-1.5	404641	1	39
	G2-SB-12	0-0.5	404596	1	35
	"	0.5-1	404597	1	38
	"	1-1.5	404598	1	34
	G2-SB-13	0-0.5	404580	1	32
	"	0.5-1	404581	1	32
	"	1-1.5	404582	1	32
	G2-SB-14	0-0.5	404575	1	33
	"	0.5-1	404576	1	32
	"	1-1.5	404577	1	32
Atterberg Limits (D4318)	G2-120	5-7	405124	1	41
	G2-121	10-11.7	404812	1	44
	"	12.5-14.5	404814	1	47
	"	17.5-19.5	404817	1	50
	G2-122	5-7	404821	1	53
	"	10-12	404824	1	56
	"	15-17	404827	1	59
	G2-123	7.5-9.5	404797	1	67
	"	12.5-14.5	404800	1	65
	"	20-21.2	404804	1	68
	G2-124	5-7	405002	1	71
	"	10-12	405004	1	74
	G2-125	2.5-4.5	405023	1	77
	"	7.5-9.5	405026	1	80
	"	12.5-14.5	405029	1	83

Test	Boring No.	Depth (ft)	Sample No.	Vol.	Page No.
Atterberg Limits (cont.)	G2-125	17.5-19.5	405033	1	86
	G2-126	7.5-9.5	404768	1	89
	"	12.5-14.5	404771	1	92
	"	15-17	404773	1	95
	"	25-27	404778	1	98
	"	35-37	404783	1	101
	G2-127	7.5-9.5	404751	1	104
	"	15-17	404756	1	107
	"	28-30	404763	1	110
	G2-128	2.5-4.5	405040	1	113
	"	7.5-9.5	405043	1	116
	"	12.5-14.5	405046	1	119
	"	17.5-19.5	405049	1	122
	G2-129	5-7.5	404729	1	125
	"	10-12.5	404732	1	128
	"	24-26.5	404740	1	131
	G2-130	5-7	405075	1	134
	"	10-12	405077	1	137
	"	15-17	405080	1	140
	"	20-22	405083	1	143
	"	30-32	405088	1	146
	G2-131	7.5-9.5	404704	1	149
	"	17.5-19.5	404709	1	152
	"	27.5-29.5	404713	1	155
	"	45-47	404719	1	158
	"	60-61.5	404723	1	161
	G2-132	5-7	405102	1	164
	"	10-12	405105	1	167
	"	15-17	405108	1	170

Test	Boring No.	Depth (ft)	Sample No.	Vol.	Page No.
Atterberg Limits (cont.)	G2-132	20-22	405111	1	173
	G2-133	2.5-4.5	405053	1	176
	"	7.5-9.5	405055	1	179
	"	15-17	405059	1	182
	"	17.5-19.5	405061	1	185
	"	25-27	405065	1	188
	G2-134	12-14	405140	1	191
	G2-SB-1	1.5-5	404608	1	194
	G2-SB-2	1.5-5	404603	1	197
	G2-SB-3	1.5-5	404591	1	200
	G2-SB-4	1.5-5	404615	1	203
	G2-SB-5	1.5-5	404627	1	206
	G2-SB-6	1.5-5	404595	1	209
	G2-SB-7	1.5-5	404632	1	212
	G2-SB-8	1.5-5	404621	1	215
	G2-SB-9	1.5-5	404587	1	218
	G2-SB-10	1.5-5	404637	1	221
	G2-SB-11	1.5-5	404642	1	224
	G2-SB-12	1.5-4.2	404599	1	227
	G2-SB-13	1.5-5	404583	1	230
	G2-SB-14	1.5-5	404578	1	233
Hydrometer Analysis with Mechanical Grain Size Analysis (D422)	G2-120	5-7	405124	2	237
	G2-121	10-11.7	404812	2	240
	"	12.5-14.5	404814	2	243
	"	17.5-19.5	404817	2	246
	G2-122	5-7	404821	2	249
	"	10-12	404824	2	252
	"	15-17	404827	2	255

Test	Boring No.	Depth (ft)	Sample No.	Vol.	Page No.
Hydrometer Analysis with Mechanical Grain Size Analysis (cont.)	G2-123	7.5-9.5	404797	2	258
	"	12.5-14.5	404800	2	261
	"	20-21.2	404804	2	264
	G2-124	5-7	405002	2	267
	"	10-12	405004	2	270
	"	25-26.5	405011	2	273
	"	30-31.5	405012	2	276
	"	35-36.5	405013	2	279
	"	40-41.5	405014	2	282
	"	45-46.5	405015	2	285
	"	50-51.5	405016	2	288
	"	55-56.5	405017	2	291
	"	60-61.5	405018	2	294
	"	65-66.5	405019	2	297
	"	70-71.5	405020	2	300
	G2-125	2.5-4.5	405023	2	303
	"	7.5-9.5	405026	2	306
	"	12.5-14.5	405029	2	309
	"	17.5-19.5	405033	2	312
	G2-126	7.5-9.5	404768	2	315
	"	12.5-14.5	404771	2	318
	"	15-17	404773	2	321
	"	25-27	404778	2	324
	"	35-37	404783	2	327
	"	40-41.5	404785	2	330
	"	45-46.5	404786	2	333
	"	50-51.5	404787	2	336
	"	55-56.5	404788	2	339

Test	Boring No.	Depth (ft)	Sample No.	Vol.	Page No.
Hydrometer Analysis with Mechanical Grain Size Analysis (cont.)	"	60-61.5	404789	2	342
	"	65-66.5	404790	2	345
	"	70-71.5	404791	2	348
	"	75-76.5	404792	2	351
	"	80-81.5	404793	2	354
	G2-127	7.5-9.5	404751	2	357
	"	15-17	404756	2	360
	"	28-30	404763	2	363
	G2-128	2.5-4.5	405040	2	366
	"	7.5-9.5	405043	2	369
	"	12.5-14.5	405046	2	372
	"	17.5-19.5	405049	2	375
	G2-129	5-7.5	404729	2	378
	"	10-12.5	404732	2	381
	"	24-26.5	404740	2	384
	G2-130	5-7	405075	2	387
	"	10-12	405077	2	390
	"	15-17	405080	2	393
	"	20-22	405083	2	396
	"	30-32	405088	2	399
	"	40-41.5	405091	2	402
	"	45-46.5	405092	2	405
	"	55-56.5	405094	2	408
	"	65-66.5	405096	2	411
	"	70-71.5	405097	2	414
	"	75-76.5	405098	2	417
	"	80-81.5	405099	2	420
	G2-131	7.5-9.5	404704	2	423

Test	Boring No.	Depth (ft)	Sample No.	Vol.	Page No.
Hydrometer Analysis with Mechanical Grain Size Analyses (cont.)	"	17.5-19.5	404709	2	426
	"	27.5-29.5	404713	2	429
	"	45-47	404719	2	432
	"	60-61.5	404723	2	435
	"	65-66.5	404724	2	438
	"	70-71.5	404725	2	441
	"	75-76.5	404726	2	444
	"	81-82.3	404727	2	447
	G2-132	5-7	405102	2	450
	"	10-12	405105	2	453
	"	15-17	405108	2	456
	"	20-22	405111	2	459
	G2-133	2.5-4.5	405053	2	462
	"	7.5-9.5	405055	2	465
	"	15-17	405059	2	468
	"	17.5-19.5	405061	2	471
	"	25-27	405065	2	474
	G2-134	12-14	405140	2	477
	G2-SB-1	1.5-5	404608	2	480
	G2-SB-2	1.5-5	404603	2	483
	G2-SB-3	1.5-5	404591	2	486
	G2-SB-4	1.5-5	404615	2	489
	G2-SB-5	1.5-5	404627	2	492
	G2-SB-6	1.5-5	404595	2	495
	G2-SB-7	1.5-5	404632	2	498
	G2-SB-8	1.5-5	404621	2	501
	G2-SB-9	1.5-5	404587	2	504
	G2-SB-10	1.5-5	404637	2	507

Test	Boring No.	Depth (ft)	Sample No.	Vol.	Page No.
Hydrometer Analysis with Mechanical Grain Size Analysis (cont.)	G2-SB-11	1.5-5	404642	2	510
	G2-SB-12	1.5-4.2	404599	2	513
	G2-SB-13	1.5-5	404583	2	516
	G2-SB-14	1.5-5	404578	2	519
Consolidation Test - Natural Moisture (D2435)	G2-122	5-7	404821	3	523
	G2-124	10-12	405004	3	533
	G2-126	15-17	404773	3	543
	"	35-37	404783	3	553
	G2-127	7.5-9.5	404751	3	563
	G2-128	12.5-14.5	405046	3	573
	G2-130	15-17	405080	3	583
	G2-131	17.5-19.5	404709	3	593
	"	27.5-29.5	404713	3	603
	"	45-47	404719	3	613
	G2-133	7.5-9.5	405055	3	623
Consolidation Test - Saturated (D2435)	G2-126	35-37	404783	3	634
	G2-127	7.5-9.5	404751	3	644
	G2-131	17.5-19.5	404709	3	654
	"	45-47	404719	3	664
	G2-133	7.5-9.5	405055	3	674
Consolidation Test - Remolded to 95% MDD (D2435)	G2-124	10-12	405004	3	685
	G2-126	15-17	404773	3	695
	G2-130	15-17	405080	3	705
	G2-SB-4	1.5-5	404615	3	715
	G2-SB-7	1.5-5	404632	3	725
Consolidation Test - Remolded to 85% MDD (D2435)	G2-120	5-7	405124	3	736

Test	Boring No.	Depth (ft)	Sample No.	Vol.	Page No.
Consolidation Test - Remolded to 85% MDD (cont.)	G2-124	10-12	405004	3	746
	G2-126	15-17	404773	3	756
	G2-128	12.5-14.5	405046	3	766
	G2-130	15-17	405080	3	776
	G2-SB-1	1.5-5	404608	3	786
	G2-SB-4	1.5-5	404615	3	796
	G2-SB-7	1.5-5	404632	3	806
	G2-SB-11	1.5-5	404642	3	816
	G2-SB-2,3,4,6 Top Soil	0-1.5	404617	3	826
	G2-SB-8,9,10,11	0-1.5	404644	3	836
Triaxial Shear Test - TX/UU Saturated (D2850)	G2-127	7.5-9.5	404751	4	847
	G2-128	2.5-4.5	405040	4	851
	G2-129	5-7.5	404729	4	855
	G2-130	5-7	404075	4	859
	"	15-17	405080	4	863
	G2-131	7.5-9.5	404704	4	867
	"	27.5-29.5	404713	4	871
	"	45-47	404719	4	875
	G2-132	5-7	405102	4	879
	"	10-12	405105	4	883
	G2-133	7.5-9.5	405055	4	887
	G2-134	12-14	405140	4	891
Triaxial Shear Test - TX/UU Field Moisture (D2850)	G2-122	10-12	404824	4	896
	G2-124	5-7	405002	4	899
	G2-125	7.5-9.5	405026	4	902
	"	17.5-19.5	405033	4	905

Test	Boring No.	Depth (ft)	Sample No.	Vol.	Page No.
Triaxial Shear Test - TX/UU Field Moisture (cont.)	G2-126	15-17	404773	4	908
Triaxial Shear Test - TX/UU Saturated, Remolded to 95% MDD (D2850)	G2-122	10-12	404824	4	912
	G2-127	7.5-9.5	404751	4	916
	G2-131	7.5-9.5	404704	4	920
	G2-132	10-12	405105	4	924
	G2-134	12-14	405140	4	928
Triaxial Shear Test - TX/UU Saturated, Remolded to 85% MDD (D2850)	G2-122	10-12	404824	4	933
	G2-127	7.5-9.5	404751	4	937
	G2-134	12-14	405140	4	941
Triaxial Shear, Consolidated, Undrained with Pore Pressure Measurements-TX/CUpp, 3 points (D4767)	G2-127	15-17	404756A	4	946
	"	15-17	404756B	4	951
	"	15-17	404756C	4	956
	G2-129	24-26.5	404740A	4	961
	"	24-26.5	404740B	4	966
	"	24-26.5	404740C	4	971
	G2-130	10-12	405077A	4	976
	"	"	405077B	4	981
	"	"	405077C	4	986
	"	30-32	405088A	4	991
	"	"	405088B	4	996
	"	"	405088C	4	1001
	G2-132	15-17	405108A	4	1006
	"	"	405108B	4	1011
	"	"	405108C	4	1016

Test	Boring No.	Depth (ft)	Sample No.	Vol.	Page No.
	G2-133	15-17	405059A	4	1021
	"	"	405059B	4	1026
	"	"	405059C	4	1031
Triaxial Shear, Consolidated, Undrained with Pore Pressure Measurements-TX/CUpp Staged-3 Points (D4767)	G2-121	10-11.7	404812-1	5	1037
	"	"	404812-2	5	1042
	"	"	404812-3	5	1047
	G2-122	5-7	404821-1	5	1052
	"	"	404821-2	5	1057
	"	"	404821-3	5	1062
	G2-123	7.5-9.5	404797-1	5	1067
	"	"	404797-2	5	1072
	"	"	404797-3	5	1077
	"	20-21.2	404804-1	5	1082
	"	"	404804-2	5	1087
	"	"	404804-3	5	1092
	G2-124	10-12	405004-1	5	1097
	"	"	405004-2	5	1102
	"	"	405004-3	5	1107
	G2-125	12.5-14.5	405029-1	5	1112
	"	"	405029-2	5	1117
	"	"	405029-3	5	1122
	G2-126	7.5-9.5	404768-1	5	1127
	"	"	404768-2	5	1132
	"	"	404768-3	5	1137
Triaxial Shear, Consolidated, Undrained with Pore Pressure Measurements-TX/CUpp Remolded to 95% MDD, 3 Points (D4767)	G2-128	7.5-9.5	405043A	5	1143

Test	Boring No.	Depth (ft)	Sample No.	Vol.	Page No.
	"	"	405043B	5	1148
	"	"	405043C	5	1153
Triaxial Shear, Consolidated, Undrained with Pore Pressure Measurements-TX/CUpp Staged - 3 Points (D4767)	G2-125	2.5-4.5	405023-1	5	1159
	"	"	405023-2	5	1164
	"	"	405023-3	5	1169
	G2-126	12.5-14.5	404771-1	5	1174
	"	"	404771-2	5	1179
	"	"	404771-3	5	1184
	G2-130	20-22	405083-1	5	1189
	"	"	405083-2	5	1194
	"	"	405083-3	5	1199
	G2-132	5-7	405102-1	5	1204
	"	"	405102-2	5	1209
	"	"	405102-3	5	1214
Triaxial Shear, Consolidated, Undrained with Pore Pressure Measurements-TX/CUpp Remolded to 85% MDD-3 Points (D4767)	G2-122	15-17	404827A	5	1220
	"	"	404827B	5	1225
	"	"	404827C	5	1230
Triaxial Shear, Consolidated, Undrained with Pore Pressure Measurements-TX/CUpp Staged - 3 Points (D4767)	G2-133	2.5-4.5	405053-1	5	1236
	"	"	405053-2	5	1241
	"	"	405053-3	5	1246
Triaxial, Back Pressure Permeability TX/PBP (D5084)	G2-121	12.5-14.5	404814	5	1252
	"	17.5-19.5	404817	5	1256
	G2-123	12.5-14.5	404800	5	1260

Test	Boring No.	Depth (ft)	Sample No.	Vol.	Page No.
	G2-126	25-27	404778	5	1264
	G2-127	28-30	404763-B	5	1268
	G2-132	20-22	405111	5	1272
	G2-133	17.5-19.5	405061	5	1276
	"	25-27	405065	5	1280
Triaxial, Back Pressure Permeability TX/PBP Remolded to 95% MDD (D5084)	G2-SB-1	1.5-5	404608	6	1285
	G2-SB-2	"	404603	6	1289
	G2-SB-3	"	404591	6	1293
	G2-SB-4	"	404615	6	1297
	G2-SB-5	"	404627	6	1301
	G2-SB-6	"	404595	6	1305
	G2-SB-7	"	404632	6	1309
	G2-SB-8	"	404621	6	1313
	G2-SB-9	"	404587	6	1317
	G2-SB-10	"	404637	6	1321
	G2-SB-11	"	404642	6	1325
	G2-SB-12	1.5-4.2	404599	6	1329
	G2-SB-13	1.5-5	404583	6	1333
	G2-SB-14	"	404578	6	1337
Proctor Compaction - Standard (D698)	G2-SB-1	1.5-5	404608	6	1342
	G2-SB-2	"	404603	6	1344
	G2-SB-3	"	404591	6	1346
	G2-SB-4	"	404615	6	1348
	G2-SB-5	"	404627	6	1350
	G2-SB-6	"	404595	6	1352
	G2-SB-7	"	404632	6	1354
	G2-SB-8	"	404621	6	1356

Test	Boring No.	Depth (ft)	Sample No.	Vol.	Page No.
	G2-SB-9	"	404587	6	1358
	G2-SB-10	"	404637	6	1360
	G2-SB-11	"	404642	6	1362
	G2-SB-12	1.5-4.2	404599	6	1364
	G2-SB-13	1.5-5	404583	6	1366
	G2-SB-14	"	404578	6	1368
	G2-SB-15	1-2	404649	6	1371
	G2-SB-16	"	404650	6	1373
	G2-SB-17	"	405366	6	1375
	G2-SB-2,3,4,6	0-1.5	404617	6	1377
	G2-SB-8,9,10,11	0-1.5	404644	6	1379
Shelby Tube Descriptive Logs (Visual Classification Only)	G2-120	5-7	405124	6	1382
	G2-121	10-11.7	404812	6	1383
	"	17.5-19.5	404817	6	1384
	G2-122	5-7	404821	6	1385
	"	10-12	404824	6	1386
	"	15-17	404827	6	1387
	G2-123	7.5-9.5	404797	6	1388
	"	12.5-14.5	404800	6	1389
	"	20-21	404804	6	1390
	G2-124	5-7	405002	6	1391
	"	10-12	405004	6	1392
	G2-125	2.5-4.5	405023	6	1393
	"	7.5-9.5	405026	6	1394
	"	12.5-14.5	405029	6	1395
	"	17.5-19.5	405033	6	1396
	G2-126	7.5-9.5	404768	6	1397

Test	Boring No.	Depth (ft)	Sample No.	Vol.	Page No.
	"	12.5-14.5	404771	6	1398
	"	15-17	404773	6	1399
	"	25-27	404778	6	1400
	"	35-37	404783	6	1401
	G2-127	7.5-9.5	404751	6	1402
	"	15-17	404756	6	1403
	"	28-30	404763	6	1404
	G2-128	2.5-4.5	405040	6	1405
	"	7.5-9.5	405043	6	1406
	"	12.5-14.5	405046	6	1407
	"	17.5-19.5	405049	6	1408
	G2-129	5-7.5	404729	6	1409
	"	10-12.5	404732	6	1410
	"	24-26.5	404740	6	1411
	G2-130	5-7	405075	6	1412
	"	10-12	405077	6	1413
	"	15-17	405080	6	1414
	"	20-22	405083	6	1415
	"	30-32	405088	6	1416
	G2-131	7.5-9.5	404704	6	1417
	"	17.5-19.5	404709	6	1418
	"	27.5-29.5	404713	6	1419
	"	45-47	404719	6	1420
	G2-132	5-7	405102	6	1421
	"	10-12	405105	6	1422
	"	15-17	405108	6	1423
	"	20-22	405111	6	1424
	G2-133	2.5-4.5	405053	6	1425
	"	7.5-9.5	405055	6	1426

Test	Boring No.	Depth (ft)	Sample No.	Vol.	Page No.
	"	15-17	405059	6	1427
	"	17.5-19.5	405061	6	1428
	"	25-27	405065	6	1429
	G2-134	12-14	405140	6	1430
California Bearing Ratio (D1883)	G2-SB-15	1-2	404649	6	1432
	"	1-2	404649	6	1436
	G2-SB-16	1-2	404650	6	1439
	G2-SB-17	1-2	405366	6	1443
	"	"	405366	6	1447
Large Scale Interface Direct Shear Test Report of a Three-Test Series using selected geosynthetics and Soils from FEMP					1450
Aggregate Tests Specific Gravity and Absorbtion of Coarse Aggregate (C127-88)			405377	6	1470
			405379	6	1470
			405381	6	1470
			405382	6	1470
			405383	6	1470
Soundness of Aggregates (C88-90)			405384	6	1470
			405385	6	1470
			405386	6	1470
Resistance R-Value and Expansion Pressure of Compacted Soils (D2844-89)			404645	6	1470
			404646	6	1470
			404647	6	1470
			404648	6	1470
Soundness of Riprap (D5240-92)			405378	6	1470
			405380	6	1470

Test	Boring No.	Depth (ft)	Sample No.	Vol.	Page No.
Chemical Analysis - Chloride and Sulfate	G2-SB-1	4.5-5	404609	6	1476
	G2-SB-2	4.5-5	404604	6	1476
	G2-SB-4	4.5-5	404616	6	1476
	G2-SB-5	4.5-5	404628	6	1476
	G2-SB-7	4.5-5	404633	6	1476
	G2-SB-8	4.5-5	404622	6	1476
	G2-SB-10	4.5-5	404638	6	1477
	G2-SB-11	4.5-5	404643	6	1477

SPECIFIC GRAVITY

ASTM D 854

SPECIFIC GRAVITY TESTS ASTM D 854
CLIENT: SAIC/Parsons PO 140 SOIL DESCR. Fernald
JOB NO. 2059-13AGI

BORING NO.	G2-126	G2-124
DEPTH	15.0-17.0'	10.0-12.0'
SAMPLE NO.	404773	405004
SAMPLED BY	JM	Not Given
SAMPLED	4-24-95	4-12-95
DATE TESTED	6-5-95	6-5-95
TESTED BY:	REW	REW
SG Flask #	1	4
Pan number:	6Z	B0
Weight of oven dry soil (g) (Wo)	25.645	25.446
Weight of flask, soil, and water. (g) (Wb)	177.845	179.726
Temperature (deg. C) (Tx)	25.2	25.2
Weight of water & flask at Tx (from cal. curve)(Wa)	161.722	163.650
Specific Gravity*	2.69	2.72

BORING NO.	G2-SB-8,9,10,11	G2-SB-2,3,4,6
DEPTH	0.0-1.5'	0.0-1.5'
SAMPLE NO.	404644	404617
SAMPLED BY	JC, BN	JC, BN
SAMPLED	4-27-95	4-25-95
DATE TESTED	6-26-95	6-26-95
TESTED BY:	REW	REW
SG Flask #	1	2
Pan number:	K0	10Z
Weight of oven dry soil (g) (Wo)	25.560	25.473
Weight of flask, soil, and water. (g) (Wb)	177.705	177.718
Temperature (deg. C) (Tx)	25.0	25.7
Weight of water & flask at Tx (from cal. curve)(Wa)	161.726	162.009
Specific Gravity*	2.67	2.61

*Specific Gravity = Wo/[Wo+(Wa-Wb)]

Data entry by: NAA Date: 7-6-95
Data checked by: REW Date: 8-11-95
FileName:SANOAGI

ADVANCED TERRA TESTING, INC.

SPECIFIC GRAVITY TESTS ASTM D 854

474

CLIENT: SAIC/Parsons PO 140 SOIL DESCR. Fernald

JOB NO. 2059-13I

BORING NO.	G2-SB-3	G2-SB-6	G2-SB-8	G2-SB-12
DEPTH	1.5-5.0'	1.5-5.0'	1.5-5.0'	1.5-4.2'
SAMPLE NO.	404591	404595	404621	404599
SAMPLED BY	JC, BN	JC, BN	JC, BN	JC, BN
SAMPLED	4-21-95	4-21-95	4-25-95	4-21-95
DATE TESTED	5-22-95	5-22-95	5-23-95	5-23-95
TESTED BY:	REW	REW	REW	REW
SG Flask #	2	4	4	2
Pan number:	B0	104	104	10Z
Weight of oven dry soil (g) (Wo)	25.842	25.794	25.439	25.801
Weight of flask, soil, and water. (g) (Wb)	178.232	179.742	179.825	178.390
Temperature (deg. C) (Tx)	23.0	24.8	24.4	24.4
Weight of water & flask at Tx (from cal. curve)(Wa)	162.063	163.662	163.674	162.034
Specific Gravity*	2.67	2.66	2.74	2.73

BORING NO.	G2-SB-7	G2-SB-10
DEPTH	1.5-5.0'	1.5-5.0'
SAMPLE NO.	404632	404637
SAMPLED BY	JC, BW	JC, BW
SAMPLED	4-26-95	4-26-95
DATE TESTED	5-25-95	5-25-95
TESTED BY:	REW	REW
SG Flask #	1	4
Pan number:	10Z	104
Weight of oven dry soil (g) (Wo)	25.481	25.928
Weight of flask, soil, and water. (g) (Wb)	177.895	180.252
Temperature (deg. C) (Tx)	23.6	23.9
Weight of water & flask at Tx (from cal. curve)(Wa)	161.770	163.688
Specific Gravity*	2.72	2.77

*Specific Gravity = Wo/[Wo+(Wa-Wb)]

Data entry by: NAA Date: 6-29-95

Data checked by: [illegible] Date: 8-12-95

FileName:SAE013I2

ADVANCED TERRA TESTING, INC.

SPECIFIC GRAVITY TESTS ASTM D 854
CLIENT: SAIC/Parsons PO 140 SOIL DESCR. Fernald
JOB NO. 2059-13L

BORING NO.	G2-126	G2-126	G2-130
DEPTH	55.0-56.5'	65.0-66.5'	55.0-56.5'
SAMPLE NO.	404788	404790	405094
SAMPLED BY	MG	MG	MM
SAMPLED	4-25-95	4-25-95	4-25-95
DATE TESTED	6-20-95	6-21-95	6-21-95
TESTED BY:	REW	REW	REW
SG Flask #	4	3	1
Pan number:	23B	19B	3B
Weight of oven dry soil (g) (Wo)	25.576	25.778	25.709
Weight of flask, soil, and water. (g) (Wb)	179.960	178.934	178.146
Temperature (deg. C) (Tx)	25.5	24.1	23.8
Weight of water & flask at Tx (from cal. curve)(Wa)	163.643	162.526	161.762
Specific Gravity*	2.76	2.75	2.76

BORING NO.	G2-130	G2-130	G2-130
DEPTH	80.0-81.5'	75.0-76.5'	65.0-66.5'
SAMPLE NO.	405099	405098	405096
SAMPLED BY	MM	MM	MM
SAMPLED	4-26-95	4-26-95	4-26-95
DATE TESTED	6-21-95	6-22-95	6-22-95
TESTED BY:	CAL	REW, CAL	REW, CAL
SG Flask #	2	3	4
Pan number:	1B	F14	D18
Weight of oven dry soil (g) (Wo)	25.066	27.877	25.179
Weight of flask, soil, and water. (g) (Wb)	177.882	180.157	179.723
Temperature (deg. C) (Tx)	26.6	26.6	25.6
Weight of water & flask at Tx (from cal. curve)(Wa)	161.993	162.486	163.639
Specific Gravity*	2.73	2.73	2.77

*Specific Gravity = Wo/[Wo+(Wa-Wb)]

Data entry by: NAA Date: 6-30-95
Data checked by: REW Date: 8-11-95
FileName:SAE013L

ADVANCED TERRA TESTING, INC.

SPECIFIC GRAVITY TESTS ASTM D 854
CLIENT: SAIC/Parsons PO 140 SOIL DESCR. Fernald
JOB NO. 2059-13B

BORING NO.	G2-129	G2-129	G2-129
DEPTH	24.0-26.5	5.0-7.5'	10.0-12.5'
SAMPLE NO.	404740	404729	404732
SAMPLED BY	MG	MG	MG
SAMPLED	4-19-95	4-18-95	4-18-95
DATE TESTED	6-12-95	6-12-95	6-14-95
TESTED BY:	REW	REW	REW
SG Flask #	1	4	3
Pan number:	22B	E0	36B
Weight of oven dry soil (g) (Wo)	25.591	25.227	25.346
Weight of flask, soil, and water. (g) (Wb)	177.921	179.588	178.719
Temperature (deg. C) (Tx)	26.0	25.7	25.8
Weight of water & flask at Tx (from cal. curve)(Wa)	161.710	163.636	162.499
Specific Gravity*	2.73	2.72	2.78

BORING NO.	G2-128	G2-128
DEPTH	12.5-14.5'	17.5-19.5'
SAMPLE NO.	405046	405049
SAMPLED BY	MM	MM
SAMPLED	4-19-95	4-19-95
DATE TESTED	6-14-95	6-22-95
TESTED BY:	REW	CAL
SG Flask #	4	1
Pan number:	K0	7ZZ
Weight of oven dry soil (g) (Wo)	25.772	25.140
Weight of flask, soil, and water. (g) (Wb)	179.982	177.781
Temperature (deg. C) (Tx)	25.8	26.0
Weight of water & flask at Tx (from cal. curve)(Wa)	163.634	161.710
Specific Gravity*	2.73	2.77

*Specific Gravity = Wo/[Wo+(Wa-Wb)]

Data entry by: NAA Date: 6-30-95
Data checked by: REW Date: 8-11-95
FileName:SAE013B

ADVANCED TERRA TESTING, INC.

SPECIFIC GRAVITY TESTS ASTM D 854
CLIENT: SAIC/Parsons PO 140 SOIL DESCR. Fernald
JOB NO. 2059-13L

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BORING NO.	G2-130	G2-126	G2-126
DEPTH	40.0-41.5	70.0-71.5'	45.0-46.5'
SAMPLE NO.	405091	404791	404786
SAMPLED BY	MM	MM	MM
SAMPLED	4-25-95	4-25-95	4-25-95
DATE TESTED	6-19-95	6-19-95	6-19-95
TESTED BY:	REW	REW	REW
SG Flask #	4	2	3
Pan number:	23B	R1	R2
Weight of oven dry soil (g) (Wo)	25.677	25.745	25.840
Weight of flask, soil, and water. (g) (Wb)	180.018	178.128	178.954
Temperature (deg. C) (Tx)	26.0	26.0	26.0
Weight of water & flask at Tx (from cal. curve)(Wa)	163.630	162.003	162.495
Specific Gravity*	2.76	2.68	2.75

BORING NO.	G2-130	G2-12[illegible]	G2-126
DEPTH	45.0-46.5'	60.0-61.5	75.0-76.5'
SAMPLE NO.	405092	404789	404792
SAMPLED BY	MM	MM	MM
SAMPLED	4-25-95	4-25-95	4-25-95
DATE TESTED	6-20-95	6-20-95	6-20-95
TESTED BY:	REW	REW	REW
SG Flask #	1	2	3
Pan number:	R1	R2	PO
Weight of oven dry soil (g) (Wo)	25.405	25.884	25.827
Weight of flask, soil, and water. (g) (Wb)	177.940	178.416	179.079
Temperature (deg. C) (Tx)	25.3	25.5	25.5
Weight of water & flask at Tx (from cal. curve)(Wa)	161.721	162.013	162.503
Specific Gravity*	2.77	2.73	2.79

*Specific Gravity = Wo/[Wo+(Wa-Wb)]

Data entry by: NAA Date: 6-30-95
Data checked by: REW Date: 8-11-95
FileName:SAE013L2

ADVANCED TERRA TESTING, INC.

SPECIFIC GRAVITY TESTS ASTM D 854
CLIENT: SAIC/Parsons PO 140 SOIL DESCR. Fernald

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JOB NO. 2059-13H

BORING NO.	G2-130	G2-132	G2-130
DEPTH	30.0-32.0'	10.0-12.0'	5.0-7.0'
SAMPLE NO.	405088	405105	405075
SAMPLED BY	MM	MM	MM
SAMPLED	4-25-95	4-27-95	5-25-95
DATE TESTED	6-15-95	6-15-95	6-16-95
TESTED BY:	REW/CAL	REW/CAL	REW/CAL
SG Flask #	1	4	1
Pan number:	KO	LO	
Weight of oven dry soil (g) (Wo)	25.583	25.790	25.016
Weight of flask, soil, and water. (g) (Wb)	177.969	180.045	177.631
Temperature (deg. C) (Tx)	25.7	25.6	25.1
Weight of water & flask at Tx (from cal. curve)(Wa)	161.715	163.639	161.724
Specific Gravity*	2.74	2.75	2.75

BORING NO.	G2-132	G2-132	G2-132
DEPTH	5.0-7.0'	15.0-17.0'	20.0-22.0'
SAMPLE NO.	405102	405108	405111
SAMPLED BY	MM	MM	MM
SAMPLED	4-27-95	4-27-95	4-27-95
DATE TESTED	6-23-95	6-23-95	6-21-95
TESTED BY:	REW/CAL	REW/CAL	CAL
SG Flask #	2	3	4
Pan number:			R1/104
Weight of oven dry soil (g) (Wo)	25.483	26.683	25.244
Weight of flask, soil, and water. (g) (Wb)	178.118	179.505	179.727
Temperature (deg. C) (Tx)	25.0	25.0	26.7
Weight of water & flask at Tx (from cal. curve)(Wa)	162.023	162.510	163.614
Specific Gravity*	2.71	2.75	2.76

*Specific Gravity = Wo/[Wo+(Wa-Wb)]

Data entry by: NAA Date: 6-30-95
Data checked by: REW Date: 8-11-95
FileName:SAE013H

ADVANCED TERRA TESTING, INC.

SPECIFIC GRAVITY TESTS ASTM D 854
CLIENT: SAIC/Parsons PO 140 SOIL DESCR. Fernald
JOB NO. 2059-13D

BORING NO.	G2-127	G2-133	G2-126	G2-126
DEPTH	15.0-17.0'	17.5-19.5'	25.0-27.0'	7.5-9.5'
SAMPLE NO.	404756	405061	404778	404768
SAMPLED BY	MG	MM	JM	JM
SAMPLED	4-21-95	4-21-95	4-24-95	4-25-95
DATE TESTED	6-14-95	6-14-95	6-14-95	6-15-95
TESTED BY:	REW	REW	REW	REW
SG Flask #	3	2	1	3
Pan number:	E0	L0	10Z	E0
Weight of oven dry soil (g) (Wo)	25.595	25.701	25.454	25.549
Weight of flask, soil, and water. (g) (Wb)	178.707	178.464	177.874	178.861
Temperature (deg. C) (Tx)	25.9	25.4	25.9	25.7
Weight of water & flask at Tx (from cal. curve)(Wa)	162.497	162.015	161.711	162.500
Specific Gravity*	2.73	2.78	2.74	2.78

BORING NO.	G2-133	G2-133	G2-133
DEPTH	7.5-9.5'	15.0-17.0'	25.0-27.0'
SAMPLE NO.	405055	405059	405065
SAMPLED BY	MM	MM	MM
SAMPLED	4-21-95	4-21-95	4-24-95
DATE TESTED	6-16-95	6-19-95	6-19-95
TESTED BY:	REW, CAL	REW, CAL	REW
SG Flask #	4	1	2
Pan number:	CMCM	C0	6Z
Weight of oven dry soil (g) (Wo)	25.041	25.215	25.555
Weight of flask, soil, and water. (g) (Wb)	179.672	177.762	178.110
Temperature (deg. C) (Tx)	25.0	26.0	26.0
Weight of water & flask at Tx (from cal. curve)(Wa)	163.657	161.710	162.003
Specific Gravity*	2.77	2.75	2.70

*Specific Gravity = Wo/[Wo+(Wa-Wb)]

Data entry by: NAA Date: 6-30-95
Data checked by: REW Date: 8-11-95
FileName:SAE013D

ADVANCED TERRA TESTING, INC.

SPECIFIC GRAVITY TESTS ASTM D 854

474

CLIENT: SAIC/Parsons PO 140 SOIL DESCR. Fernald

JOB NO. 2059-13I

BORING NO.	G2-SB-1	G2-SB-11	G2-SB-4
DEPTH	1.5-5.0'	1.5-5.0'	1.5-5.0'
SAMPLE NO.	404608	404642	404615
SAMPLED BY	JC, BN	JC, BN	JC, BN
SAMPLED	4-24-95	4-27-95	4-25-95
DATE TESTED	5-16-95	5-16-95	5-16-95
TESTED BY:	RW	RW	RW
SG Flask #	3	1	2
Pan number:	F0	23B	119B
Weight of oven dry soil (g) (Wo)	25.299	25.562	25.133
Weight of flask, soil, and water. (g) (Wb)	178.540	178.060	177.860
Temperature (deg. C) (Tx)	24.9	25.0	25.0
Weight of water & flask at Tx (from cal. curve)(Wa)	162.512	161.726	162.023
Specific Gravity*	2.73	2.77	2.70

BORING NO.	G2-SB-5
DEPTH	1.5-5.0'
SAMPLE NO.	404627
SAMPLED BY	JC, BN
SAMPLED	4-26-95
DATE TESTED	5-22-95
TESTED BY:	REW
SG Flask #	1
Pan number:	16Z
Weight of oven dry soil (g) (Wo)	25.840
Weight of flask, soil, and water. (g) (Wb)	178.068
Temperature (deg. C) (Tx)	24.2
Weight of water & flask at Tx (from cal. curve)(Wa)	161.749
Specific Gravity*	2.71

*Specific Gravity = Wo/[Wo+(Wa-Wb)]

Data entry by: NAA Date: 6-29-95

Data checked by: REW Date: 8-11-95

FileName:SAE013I

ADVANCED TERRA TESTING, INC.

SPECIFIC GRAVITY TESTS ASTM D 854

474

CLIENT: SAIC/Parsons PO 140 SOIL DESCR. Fernald

JOB NO. 2059-13H, L

BORING NO.	G2-130	G2-130	G2-130
DEPTH	15.0-17.0'	10.0-12.0'	20.0-22.0'
SAMPLE NO.	405080	405077	405083
SAMPLED BY	MM	MM	MM
SAMPLED	4-25-95	4-25-95	4-25-95
DATE TESTED	6-19-95	6-19-95	6-19-95
TESTED BY:	REW	REW	REW
SG Flask #	3	4	1
Pan number:	R2	R1	PO
Weight of oven dry soil (g) (Wo)	25.530	25.417	25.267
Weight of flask, soil, and water. (g) (Wb)	178.875	179.788	177.906
Temperature (deg. C) (Tx)	26.0	26.0	26.0
Weight of water & flask at Tx (from cal. curve)(Wa)	162.495	163.630	161.710
Specific Gravity*	2.79	2.75	2.79

BORING NO.	G2-126	G2-126	G2-126	G2-130
DEPTH	40.0-41.5'	80.0-81.5'	50.0-51.5'	70.0-71.5'
SAMPLE NO.	404785	404793	404787	405097
SAMPLED BY	MG	MG	MG	MM
SAMPLED	4-25-95	4-25-95	4-25-95	4-26-95
DATE TESTED	6-23-95	6-23-95	6-23-95	6-23-95
TESTED BY:	REW	REW	REW	REW
SG Flask #	3	4	1	2
Pan number:	36B	EO	KO	10Z
Weight of oven dry soil (g) (Wo)	25.625	25.697	25.287	25.485
Weight of flask, soil, and water. (g) (Wb)	178.739	180.007	177.783	178.034
Temperature (deg. C) (Tx)	25.8	25.8	25.7	25.7
Weight of water & flask at Tx (from cal. curve)(Wa)	162.499	163.634	161.715	162.009
Specific Gravity*	2.73	2.76	2.74	2.69

*Specific Gravity = Wo/[Wo+(Wa-Wb)]

Data entry by: NAA Date: 6-30-95

Data checked by: REW Date: 8-11-95

FileName:SAE013HL

ADVANCED TERRA TESTING, INC.

SPECIFIC GRAVITY TESTS ASTM D 854

474

CLIENT: SAIC/Parsons PO 140 SOIL DESCR. Fernald

JOB NO. 2059-13A

BORING NO.	G2-124	G2-131	G2-131	G2-131
DEPTH	50.0-51.5'	7.5-9.5'	27.5-29.5'	17.5-19.5'
SAMPLE NO.	405016	404704	404713	404709
SAMPLED BY	KP, MM	MG	MG	MG
SAMPLED	4-13-95	4-12-95	4-12-95	4-12-95
DATE TESTED	6-8-95	6-9-95	6-9-95	6-9-95
TESTED BY:	REW	REW, DSR	REW, DSR	REW, DSR
SG Flask #	3	2	4	1
Pan number:	E0	16Z	K0	10Z
Weight of oven dry soil (g) (Wo)	25.653	25.134	25.146	25.372
Weight of flask, soil, and water. (g) (Wb)	179.033	177.846	179.771	177.813
Temperature (deg. C) (Tx)	22.7	24.0	24.6	24.3
Weight of water & flask at Tx (from cal. curve)(Wa)	162.564	162.042	163.668	161.747
Specific Gravity*	2.79	2.69	2.78	2.73

BORING NO.	G2-131	G2-SB-2	G2-127	G2-126
DEPTH	45.0-47.0'	1.5-5.0'	7.5-9.5'	35.0-37.0'
SAMPLE NO.	404719	404603	404751	404783
SAMPLED BY	MG	JC, BN	MG	JM
SAMPLED	4-13-95	4-24-95	4-21-95	5-24-95
DATE TESTED	6-13-95	5-30-95	6-6-95	6-13-95
TESTED BY:	REW	REW	REW	REW
SG Flask #	2	3	4	4
Pan number:	F0	10Z	10Z	16Z
Weight of oven dry soil (g) (Wo)	25.182	25.190	25.886	25.541
Weight of flask, soil, and water. (g) (Wb)	177.922	178.354	180.100	179.855
Temperature (deg. C) (Tx)	26.0	24.5	25.1	25.9
Weight of water & flask at Tx (from cal. curve)(Wa)	162.003	162.518	163.653	163.632
Specific Gravity*	2.72	2.69	2.74	2.74

*Specific Gravity = Wo/[Wo+(Wa-Wb)]

Data entry by: NAA Date: 6-29-95

Data checked by: REW Date: 8-11-95

FileName:SAE013A

ADVANCED TERRA TESTING, INC.

MOISTURE CONTENT ANALYSIS

ASTM D 2216

Moisture Determinations
ASTM D 2216
CLIENT: SAIC/Parsons PO 140 JOB NO.: 2059-13A

BORING	G2-124	G2-124	G2-124	G2-124
SAMPLE DEPTH	25.0-26.5'	30.0-31.5'	35.0-36.5'	40.0-41.5'
SAMPLE NO.	405011	405012	405013	405014
DATE SAMPLED	4-12-95	4-12-95	4-12-95	4-12-95
BY	KP, MM	KP, MM	KP, MM	KP, MM
DATE TESTED	5-10-95	5-10-95	5-10-95	5-10-95
BY	MGJ	MGJ	MGJ	MGJ
SOIL TYPE	Fernald	Fernald	Fernald	Fernald
LABORATORY ID				

Moisture Determinations

DISH NO.	G31	11	G18	34H
WT. OF WET SOIL & DISH	145.77	126.97	99.02	85.18
WT. OF DRY SOIL & DISH	126.21	116.87	90.56	79.33
NET LOSS OF MOISTURE	19.56	10.10	8.46	5.85
WT. OF DISH	8.35	8.53	8.35	7.65
WT. OF DRY SOIL	117.86	108.34	82.21	71.68
MOISTURE CONTENT %	16.6	9.3	10.3	8.2

BORING	G2-124	G2-124	G2-124	G2-124
SAMPLE DEPTH	45.0-46.5'	50.0-51.5'	55.0-56.5'	60.0-61.5'
SAMPLE NO.	405015	405016	405017	405018
DATE SAMPLED	4-12-95	4-13-95	4-13-95	4-13-95
BY	KP, MM	KP, MM	KP, MM	KP, MM
DATE TESTED	5-10-95	5-10-95	5-10-95	5-10-95
BY	MGJ	MGJ	MGJ	MGJ
SOIL TYPE	Fernald	Fernald	Fernald	Fernald
LABORATORY ID				

Moisture Determinations

DISH NO.	F11	D1	D14	G14
WT. OF WET SOIL & DISH	110.80	105.44	105.57	82.29
WT. OF DRY SOIL & DISH	102.97	99.49	102.79	78.35
NET LOSS OF MOISTURE	7.83	5.95	2.78	3.94
WT. OF DISH	8.28	8.30	8.42	8.35
WT. OF DRY SOIL	94.69	91.19	94.37	70.00
MOISTURE CONTENT %	8.3	6.5	2.9	5.6

Data entered by: NAA
Data checked by: CJ Date: 8-21-95
FileName: SAN0124

ADVANCED TERRA TESTING, INC.

Moisture Determinations
ASTM D 2216

CLIENT: SAIC/Parsons PO 140 JOB NO.: 2059-13J

BORING	G2-SB-16	G2-SB-16	G2-SB-17	G2-SB-17
SAMPLE DEPTH	1.0-2.0'	1.0-2.0'	1.0-2.0'	1.0-2.0'
SAMPLE NO.	404650	404650	405366	405366
DATE SAMPLED	5-10-95	5-10-95	5-10-95	5-10-95
BY	JC, BN	JC, BN	JC, BN	JC, BN
DATE TESTED	5-30-95	5-30-95	5-30-95	5-30-95
BY	MGJ	MGJ	MGJ	MGJ
SOIL TYPE	Fernald	Fernald	Fernald	Fernald
LABORATORY ID	1 OF 2	2 OF 2	1 OF 2	2 OF 2

Moisture Determinations

DISH NO.	B40	20A	F5	G49
WT. OF WET SOIL & DISH	276.52	179.90	215.89	293.21
WT. OF DRY SOIL & DISH	222.89	146.29	188.29	247.25
NET LOSS OF MOISTURE	53.63	33.61	27.60	45.96
WT. OF DISH	8.48	7.82	8.56	8.38
WT. OF DRY SOIL	214.41	138.47	179.73	238.87
MOISTURE CONTENT %	25.0	24.3	15.4	19.2

Data entered by: NAA
Data checked by: REW Date: 8-11-95
FileName: SANOG2SB

ADVANCED TERRA TESTING, INC.

Moisture Determinations
ASTM D 2216
CLIENT: SAIC/Parsons PO 140 JOB NO.: 2059-13A

BORING	G2-124	G2-124	G2-124	G2-131
SAMPLE DEPTH	65.0-66.5'	70.0-71.5'	80.0-82.0'	60.0-61.5'
SAMPLE NO.	405019	405020	405021	404723
DATE SAMPLED	4-13-95	4-13-95	4-13-95	4-17-95
BY	KP, MM	KP, MM	KP, MM	MG
DATE TESTED	5-10-95	5-10-95	5-10-95	5-10-95
BY	MGJ	MGJ	MGJ	MGJ
SOIL TYPE	Fernald	Fernald	Fernald	Fernald
LABORATORY ID				

Moisture Determinations

DISH NO.	G2	G45	G42	JA
WT. OF WET SOIL & DISH	127.07	91.00	98.43	135.49
WT. OF DRY SOIL & DISH	118.69	84.70	93.20	111.08
NET LOSS OF MOISTURE	8.38	6.30	5.23	24.41
WT. OF DISH	8.33	8.34	8.37	8.38
WT. OF DRY SOIL	110.36	76.36	84.83	102.70
MOISTURE CONTENT %	7.6	8.3	6.2	23.8

BORING	G2-131	G2-131	G2-131	G2-131
SAMPLE DEPTH	65.0-66.5'	70.0-71.5'	75.0-76.5'	81.0-82.3'
SAMPLE NO.	404724	404725	404726	404727
DATE SAMPLED	4-17-95	4-17-95	4-17-95	4-17-95
BY	MG	MG	MG	MG
DATE TESTED	5-10-95	5-10-95	5-10-95	5-10-95
BY	MGJ	MGJ	MGJ	MGJ
SOIL TYPE	Fernald	Fernald	Fernald	Fernald
LABORATORY ID				

Moisture Determinations

DISH NO.	32	F16	7A	ZA46
WT. OF WET SOIL & DISH	95.48	85.76	113.19	151.97
WT. OF DRY SOIL & DISH	88.62	82.83	109.73	148.27
NET LOSS OF MOISTURE	6.86	2.93	3.46	3.70
WT. OF DISH	8.34	8.39	8.22	8.24
WT. OF DRY SOIL	80.28	74.44	101.51	140.03
MOISTURE CONTENT %	8.5	3.9	3.4	2.6

Data entered by: NAA
Data checked by:_____ Date:_____
FileName: SAN0131

ADVANCED TERRA TESTING, INC.

Moisture Determinations
ASTM D 2216
CLIENT: SAIC/Parsons PO 140 JOB NO.: 2059-13I

BORING	G2-SB-05	G2-SB-07	G2-SB-10	G2-SB-11
SAMPLE DEPTH	1.5-5.0'	1.5-5.0'	1.5-5.0'	1.5-5.0'
SAMPLE NO.	404627	404632	404637	404642
DATE SAMPLED	4-26-95	4-26-95	4-26-95	4-27-95
BY	JC, BN	JC, BN	JC, BN	JC, BN
DATE TESTED	5-10-95	5-10-95	5-10-95	5-10-95
BY	MGJ	MGJ	MGJ	MGJ
SOIL TYPE	Fernald	Fernald	Fernald	Fernald
LABORATORY ID				

Moisture Determinations

DISH NO.	B0	A23	N0	A7
WT. OF WET SOIL & DISH	197.90	199.09	187.53	182.05
WT. OF DRY SOIL & DISH	164.17	165.75	158.04	158.70
NET LOSS OF MOISTURE	33.73	33.34	29.49	23.35
WT. OF DISH	3.70	3.66	3.76	3.86
WT. OF DRY SOIL	160.47	162.09	154.28	154.84
MOISTURE CONTENT %	21.0	20.6	19.1	15.1

BORING	G2-SB-08,09,10,11
SAMPLE DEPTH	0.0-1.5'
SAMPLE NO.	404644
DATE SAMPLED	4-27-95
BY	JC, BN
DATE TESTED	5-10-95
BY	MGJ
SOIL TYPE	
LABORATORY ID	

Moisture Determinations

DISH NO.	E0
WT. OF WET SOIL & DISH	186.65
WT. OF DRY SOIL & DISH	140.36
NET LOSS OF MOISTURE	46.29
WT. OF DISH	3.73
WT. OF DRY SOIL	136.63
MOISTURE CONTENT %	33.9

Data entered by: NAA
Data checked by: REW Date: 8-11-95
FileName: SAE0SB01

ADVANCED TERRA TESTING, INC.

Moisture Determinations
ASTM D 2216
CLIENT: SAIC/Parsons PO 140 JOB NO.: 2059-13L

BORING	G2-126	G2-130	G2-130	G2-130
SAMPLE DEPTH	80.0-81.5'	40.0-41.5	55.0-56.5'	65.0-66.5'
SAMPLE NO.	404793	405091	405094	405096
DATE SAMPLED	4-25-95	4-25-95	4-25-95	4-25-95
BY	MG	MM	MM	MM
DATE TESTED	6-7-95	6-7-95	6-7-95	6-7-95
BY	MGJ	MGJ	MGJ	MGJ
SOIL TYPE	Fernald	Fernald	Fernald	Fernald
LABORATORY ID				

Moisture Determinations

DISH NO.	G7	G51	O5	ZQ47
WT. OF WET SOIL & DISH	123.07	130.54	180.54	118.97
WT. OF DRY SOIL & DISH	118.53	115.23	176.54	115.57
NET LOSS OF MOISTURE	4.54	15.31	4.00	3.40
WT. OF DISH	8.35	8.39	8.28	8.30
WT. OF DRY SOIL	110.18	106.84	168.26	107.27
MOISTURE CONTENT %	4.1	14.3	2.4	3.2

BORING	G2-130	G2-130	G2-130	G2-130
SAMPLE DEPTH	70.0-71.5'	75.0-76.5'	80.0-81.5'	45.0-46.5'
SAMPLE NO.	405097	405098	405099	405092
DATE SAMPLED	4-26-95	4-26-95	4-26-95	4-25-95
BY	MM	MM	MM	MM
DATE TESTED	6-7-95	6-7-95	6-7-95	6-7-95
BY	MGJ	MGJ	MGJ	MGJ
SOIL TYPE	Fernald	Fernald	Fernald	Fernald
LABORATORY ID				

Moisture Determinations

DISH NO.	F7	31	G17	D2
WT. OF WET SOIL & DISH	142.50	140.89	169.23	112.80
WT. OF DRY SOIL & DISH	139.49	126.81	156.60	101.29
NET LOSS OF MOISTURE	3.01	14.08	12.63	11.51
WT. OF DISH	8.30	8.49	8.37	8.20
WT. OF DRY SOIL	131.19	118.32	148.23	93.09
MOISTURE CONTENT %	2.3	11.9	8.5	12.4

Data entered by: NAA
Data checked by: REW Date: 8-11-95
FileName: SAN0405

ADVANCED TERRA TESTING, INC.

Moisture Determinations
ASTM D 2216
CLIENT: SAIC/Parsons PO 140 JOB NO.: 2059-13I

BORING	G2-SB-06	G2-SB-12	G2-SB-03	G2-SB-02,03,04,06
SAMPLE DEPTH	1.5-5.0'	1.5-4.2'	1.5-5.0'	0.0-1.5'
SAMPLE NO.	404595	404599	404591	404617
DATE SAMPLED	4-21-95	4-21-95	4-21-95	4-25-95
BY	JC, BN	JC, BN	JC, BN	JC, BN
DATE TESTED	5-10-95	5-10-95	5-10-95	5-10-95
BY	MGJ	MGJ	MGJ	MGJ
SOIL TYPE	Fernald	Fernald	Fernald	Fernald
LABORATORY ID				

Moisture Determinations

DISH NO.	100	16B	19Z	36B
WT. OF WET SOIL & DISH	163.64	139.87	257.24	202.11
WT. OF DRY SOIL & DISH	134.84	116.17	203.20	164.33
NET LOSS OF MOISTURE	28.80	23.70	54.04	37.78
WT. OF DISH	3.72	3.58	3.76	3.77
WT. OF DRY SOIL	131.12	112.59	199.44	160.56
MOISTURE CONTENT %	22.0	21.0	27.1	23.5

BORING	G2-SB-04	G2-SB-08	G2-SB-01	G2-SB-02
SAMPLE DEPTH	1.5-5.0'	1.5-5.0'	1.5-5.0'	1.5-5.0'
SAMPLE NO.	404615	404621	404608	404603
DATE SAMPLED	4-25-95	4-25-95	4-24-95	4-24-95
BY	JC, BN	JC, BN	JC, BN	JC, BN
DATE TESTED	5-10-95	5-10-95	5-10-95	5-10-95
BY	MGJ	MGJ	MGJ	MGJ
SOIL TYPE	Fernald	Fernald	Fernald	Fernald
LABORATORY ID				

Moisture Determinations

DISH NO.	15Z	21Z	7ZZ	18
WT. OF WET SOIL & DISH	157.31	186.28	159.41	262.98
WT. OF DRY SOIL & DISH	130.63	151.52	124.18	205.35
NET LOSS OF MOISTURE	26.68	34.76	35.23	57.63
WT. OF DISH	3.66	3.56	3.86	3.81
WT. OF DRY SOIL	126.97	147.96	120.32	201.54
MOISTURE CONTENT %	21.0	23.5	29.3	28.6

Data entered by: NAA
Data checked by: REW Date: 8-11-95
FileName: SAEOG2A

ADVANCED TERRA TESTING, INC.

Moisture Determinations
ASTM D 2216
CLIENT: SAIC/Parsons PO 140 JOB NO.: 2059-13G & H

BORING	G2-132	G2-132	G2-120	G2-121
SAMPLE DEPTH	10.0-12.0'	20.0-22.0'	5.0-7.0'	12.5-14.5'
SAMPLE NO.	405105	405111	405124	404814
DATE SAMPLED	4-27-95	4-27-95	5-2-95	4-27-95
BY	MM	MM	MM	JM
DATE TESTED	6-1-95	6-1-95	5-18-95	5-18-95
BY	MGJ	MGJ	MGJ	MGJ
SOIL TYPE	Fernald	Fernald	Fernald	Fernald
LABORATORY ID				

Moisture Determinations

DISH NO.	25	G27	19Z	37Z
WT. OF WET SOIL & DISH	213.27	157.98	178.00	155.10
WT. OF DRY SOIL & DISH	186.48	139.51	153.22	138.95
NET LOSS OF MOISTURE	26.79	18.47	24.78	16.15
WT. OF DISH	8.46	8.38	3.76	3.66
WT. OF DRY SOIL	178.02	131.13	149.46	135.29
MOISTURE CONTENT %	15.0	14.1	16.6	11.9

BORING	G2-121	G2-122	G2-122	G2-123
SAMPLE DEPTH	17.5-19.5'	10.0-12.0'	15.0-17.0'	12.5-14.5'
SAMPLE NO.	404817	404824	404827	404800
DATE SAMPLED	5-1-95	5-1-95	5-1-95	4-26-95
BY	JM	JM	JM	MG
DATE TESTED	5-19-95	5-19-95	5-19-95	5-19-95
BY	MGJ	MGJ	MGJ	MGJ
SOIL TYPE	Fernald	Fernald	Fernald	Fernald
LABORATORY ID				

Moisture Determinations

DISH NO.	8Z	A18	A12	68
WT. OF WET SOIL & DISH	171.36	214.63	148.69	172.95
WT. OF DRY SOIL & DISH	153.43	190.02	132.15	154.04
NET LOSS OF MOISTURE	17.93	24.61	16.54	18.91
WT. OF DISH	3.80	3.83	3.72	3.62
WT. OF DRY SOIL	149.63	186.19	128.43	150.42
MOISTURE CONTENT %	12.0	13.2	12.9	12.6

Data entered by: NAA
Data checked by: REW Date: 8-11-95
FileName: SAN05148

ADVANCED TERRA TESTING, INC.

Moisture Determinations
ASTM D 2216
CLIENT: SAIC/Parsons PO 140 JOB NO.: 2059-13A, B, C

BORING	G2-131	G2-125	G2-125	G2-125
SAMPLE DEPTH	7.5-9.5'	2.5-4.5'	7.5-9.5'	17.5-19.5'
SAMPLE NO.	404704	405023	405026	405033
DATE SAMPLED	4-12-95	4-17-95	4-17-95	4-17-95
BY	MG	KP, MM	KP, MM	KP, MM
DATE TESTED	5-30-95	5-23-95	5-23-95	5-23-95
BY	MGJ	MGJ	MGJ	MGJ
SOIL TYPE	Fernald	Fernald	Fernald	Fernald
LABORATORY ID				

Moisture Determinations

DISH NO.	1A	1061	Q1	H93
WT. OF WET SOIL & DISH	121.42	128.60	131.95	135.11
WT. OF DRY SOIL & DISH	106.57	108.52	118.67	120.68
NET LOSS OF MOISTURE	14.85	20.08	13.28	14.43
WT. OF DISH	8.26	7.92	8.54	8.40
WT. OF DRY SOIL	98.31	100.60	110.13	112.28
MOISTURE CONTENT %	15.1	20.0	12.1	12.9

BORING	G2-SB-14	G2-SB-09	G2-SB-13
SAMPLE DEPTH	1.5-5.0'	1.5-5.0'	1.5-5.0'
SAMPLE NO.	404578	404587	404583
DATE SAMPLED	4-19-95	4-20-95	4-20-95
BY	JC, BN	JC, BN	JC, BN
DATE TESTED	5-25-95	5-25-95	5-25-95
BY	MGJ	MGJ	MGJ
SOIL TYPE	Fernald	Fernald	Fernald
LABORATORY ID			

Moisture Determinations

DISH NO.	104	105	20B
WT. OF WET SOIL & DISH	174.93	198.44	183.34
WT. OF DRY SOIL & DISH	145.29	162.95	148.61
NET LOSS OF MOISTURE	29.64	35.49	34.73
WT. OF DISH	3.78	3.72	3.66
WT. OF DRY SOIL	141.51	159.23	144.95
MOISTURE CONTENT %	20.9	22.3	24.0

Data entered by: NAA
Data checked by: BBEW Date: 8-11-95
FileName: SANOABC

ADVANCED TERRA TESTING, INC.

Moisture Determinations
ASTM D 2216
CLIENT: SAIC/Parsons PO 140 JOB NO.: 2059-13L

BORING	G2-126	G2-126	G2-126	G2-126
SAMPLE DEPTH	40.0-41.5'	45.0-46.5'	50.0-51.5'	55.0-56.5'
SAMPLE NO.	404785	404786	404787	404788
DATE SAMPLED	4-25-95	4-25-95	4-25-95	4-25-95
BY	MG	MG	MG	MG
DATE TESTED	6-7-95	6-7-95	6-7-95	6-7-95
BY	MGJ	MGJ	MGJ	MGJ
SOIL TYPE	Fernald	Fernald	Fernald	Fernald
LABORATORY ID				

Moisture Determinations

DISH NO.	F19	G12	35	ABS1
WT. OF WET SOIL & DISH	172.33	123.74	125.89	108.38
WT. OF DRY SOIL & DISH	144.67	110.16	117.46	102.14
NET LOSS OF MOISTURE	27.66	13.58	8.43	6.24
WT. OF DISH	8.30	8.28	8.38	8.32
WT. OF DRY SOIL	136.37	101.88	109.08	93.82
MOISTURE CONTENT %	20.3	13.3	7.7	6.7

BORING	G2-126	G2-126	G2-126	G2-126
SAMPLE DEPTH	60.0-61.5'	65.0-66.5'	70.0-71.5	75.0-76.5'
SAMPLE NO.	404789	404790	404791	404792
DATE SAMPLED	4-25-95	4-25-95	4-25-95	4-25-95
BY	MG	MG	MG	MG
DATE TESTED	6-7-95	6-7-95	6-7-95	6-7-95
BY	MGJ	MGJ	MGJ	MGJ
SOIL TYPE	Fernald	Fernald	Fernald	Fernald
LABORATORY ID				

Moisture Determinations

DISH NO.	MG8	AK47	MS2	G22
WT. OF WET SOIL & DISH	116.34	122.33	90.88	84.72
WT. OF DRY SOIL & DISH	108.75	118.57	87.36	82.42
NET LOSS OF MOISTURE	7.59	3.76	3.52	2.30
WT. OF DISH	8.27	8.24	8.22	8.51
WT. OF DRY SOIL	100.48	110.33	79.14	73.91
MOISTURE CONTENT %	7.6	3.4	4.4	3.1

Data entered by: NAA
Data checked by: RGJ Date: 8-11-95
FileName: SAN0404

ADVANCED TERRA TESTING, INC.

Moisture Determinations
ASTM D 2216

CLIENT: SAIC/Parsons PO 140 JOB NO.: 2059-13B, D, C, H

BORING	G2-126	G2-132	G2-134	G2-128
SAMPLE DEPTH	25.0-27.0'	5.0-7.0'	12.0-14.0'	2.5-4.5'
SAMPLE NO.	404778	405102	405140	405040
DATE SAMPLED	4-24-95	4-27-95	5-3-95	4-18-95
BY	JM	MM	MM	MM
DATE TESTED	6-1-95	5-30-95	5-31-95	5-25-95
BY	MGJ	MGJ	MGJ	MGJ
SOIL TYPE	Fernald	Fernald	Fernald	Fernald
LABORATORY ID				

Moisture Determinations

DISH NO.	G3	G39	1P	F21
WT. OF WET SOIL & DISH	187.62	100.33	248.29	177.56
WT. OF DRY SOIL & DISH	165.67	97.64	219.33	150.85
NET LOSS OF MOISTURE	21.95	2.69	28.96	26.71
WT. OF DISH	8.36	8.47	8.32	8.42
WT. OF DRY SOIL	157.31	89.17	211.01	142.43
MOISTURE CONTENT %	14.0	3.0	13.7	18.8

BORING	G2-128	G2-129	G2-129
SAMPLE DEPTH	17.5-19.5'	5.0-7.5'	10.0-12.5'
SAMPLE NO.	405049	404729	404732
DATE SAMPLED	4-18-95	4-18-95	4-18-95
BY	MG	MG	MG
DATE TESTED	5-25-95	5-25-95	5-25-95
BY	MGJ	MGJ	MGJ
SOIL TYPE	Fernald	Fernald	Fernald
LABORATORY ID			

Moisture Determinations

DISH NO.	72	G32	G11
WT. OF WET SOIL & DISH	196.46	164.49	178.69
WT. OF DRY SOIL & DISH	176.19	138.98	157.70
NET LOSS OF MOISTURE	20.27	25.51	20.99
WT. OF DISH	8.38	8.51	8.34
WT. OF DRY SOIL	167.81	130.47	149.36
MOISTURE CONTENT %	12.1	19.6	14.1

Data entered by: NAA
Data checked by: REW Date: 8-11-95
FileName: SANODHG

ADVANCED TERRA TESTING, INC.

Moisture Determinations
ASTM D 2216
CLIENT: SAIC/Parsons PO 140 JOB NO.: 2059-13L

BORING	G2-130	G2-130	G2-133	G2-133
SAMPLE DEPTH	5.0-7.0'	20.0-22.0'	2.5-4.5'	15.0-17.0'
SAMPLE NO.	405075	405083	405053	405059
DATE SAMPLED	4-25-95	4-25-95	4-21-95	4-21-95
BY	MM	MM	MM	MM
DATE TESTED	5-26-95	5-26-95	6-1-95	5-31-95
BY	MGJ	MGJ	MGJ	JB
SOIL TYPE	Fernald	Fernald	Fernald	Fernald
LABORATORY ID				

Moisture Determinations

DISH NO.	9H	M53	24A	G47
WT. OF WET SOIL & DISH	213.89	195.54	101.16	222.52
WT. OF DRY SOIL & DISH	190.44	171.46	80.41	199.25
NET LOSS OF MOISTURE	23.45	24.08	20.75	23.27
WT. OF DISH	8.45	8.27	7.34	8.38
WT. OF DRY SOIL	181.99	163.19	73.07	190.87
MOISTURE CONTENT %	12.9	14.8	28.4	12.2

BORING	G2-133	G2-133	G2-126	G2-127
SAMPLE DEPTH	17.5-19.5'	25.0-27.0'	12.5-14.5'	28.0-30.0'
SAMPLE NO.	405061	405065	404771	404763
DATE SAMPLED	4-21-95	4-21-95	4-24-95	4-24-95
BY	MM	MM	MG	MG
DATE TESTED	5-31-95	5-31-95	5-24-95	5-24-95
BY	JB	JB	MGJ	MGJ
SOIL TYPE	Fernald	Fernald	Fernald	Fernald
LABORATORY ID				

Moisture Determinations

DISH NO.	D18	E84	1P	35A
WT. OF WET SOIL & DISH	171.08	172.54	222.64	221.05
WT. OF DRY SOIL & DISH	152.20	150.05	201.06	192.19
NET LOSS OF MOISTURE	18.88	22.49	21.58	28.86
WT. OF DISH	8.22	8.40	8.32	7.45
WT. OF DRY SOIL	143.98	141.65	192.74	184.74
MOISTURE CONTENT %	13.1	15.9	11.2	15.6

Data entered by: NAA
Data checked by: RGW Date: 8-11-95
FileName: SANOG213

ADVANCED TERRA TESTING, INC.

Moisture Determinations
ASTM D 2216
CLIENT: SAIC/Parsons PO 140 JOB NO.: 2059-13

BORING	G2-132	G2-122	G2-126	G2-126
SAMPLE DEPTH	20.0-22.0'	5.0-7.0'	25.0-27.0'	35.0-37.0'
SAMPLE NO.	405111	404821	404778	404783
DATE SAMPLED	4-27-95	5-1-95	4-24-95	4-24-95
BY	MM	JM	MG	JM
DATE TESTED	7-7-95	7-7-95	7-7-95	7-7-95
BY	MGJ	MGJ	MGJ	MGJ
SOIL TYPE	Fernald	Fernald	Fernald	Fernald
LABORATORY ID				

Moisture Determinations

DISH NO.	20A	Z1	MS	ABS6
WT. OF WET SOIL & DISH	199.99	167.93	225.19	211.98
WT. OF DRY SOIL & DISH	177.75	141.38	199.95	188.21
NET LOSS OF MOISTURE	22.24	26.55	25.24	23.77
WT. OF DISH	7.76	8.39	8.23	8.35
WT. OF DRY SOIL	169.99	132.99	191.72	179.86
MOISTURE CONTENT %	13.1	20.0	13.2	13.2

BORING	G2-129	G2-131
SAMPLE DEPTH	10.0-12.5'	45.0-47.0'
SAMPLE NO.	404732	404719
DATE SAMPLED	4-18-95	4-13-95
BY	MG	MG
DATE TESTED	7-7-95	7-7-95
BY	MGJ	MGJ
SOIL TYPE	Fernald	Fernald
LABORATORY ID		

Moisture Determinations

DISH NO.	F13	91
WT. OF WET SOIL & DISH	214.16	189.97
WT. OF DRY SOIL & DISH	175.78	167.58
NET LOSS OF MOISTURE	38.38	22.39
WT. OF DISH	8.28	8.37
WT. OF DRY SOIL	167.50	159.21
MOISTURE CONTENT %	22.9	14.1

Data entered by: NAA
Data checked by: SK Date: 8-12-95
FileName: SANOG2R

ADVANCED TERRA TESTING, INC.

MOISTURE CONTENT ANALYSIS
Microwave Moisture
ASTM D 4643

Moisture Determinations Microwave Moisture
ASTM D 4643

CLIENT: SAIC/Parsons PO 140 JOB NO.: 2059-13H,D,J

BORING	G2-130	G2-131	G2-132	G2-SB-17
SAMPLE DEPTH	5.0-7.0'	7.5-9.5'	10.0-12.0'	1.0-2.0'
SAMPLE NO.	405075	404704	405105	405366
DATE SAMPLED	4-25-95	4-12-95	4-27-95	5-10-95
BY	MM	MG	MM	JC, BN
DATE TESTED	5-30-95	5-31-95	6-7-95	5-31-95
BY	CAL	RW	RW	RW
SOIL TYPE	Fernald	Fernald	Fernald	Fernald
LABORATORY ID				1 OF 2

Moisture Determinations

DISH NO.	CA2	CA2	O7	CA2
WT. OF WET SOIL & DISH	247.02	238.22	295.44	239.07
WT. OF DRY SOIL & DISH	230.20	221.08	270.07	222.01
NET LOSS OF MOISTURE	16.82	17.14	25.37	17.06
WT. OF DISH	108.59	108.63	106.16	108.61
WT. OF DRY SOIL	121.61	112.45	163.91	113.40
MOISTURE CONTENT %	13.8	15.2	15.5	15.0

BORING	G2-SB-17	G2-SB-16	G2-SB-16	G2-123
SAMPLE DEPTH	1.0-2.0'	1.0-2.0'	1.0-2.0'	12.5-14.5'
SAMPLE NO.	405366	404650	404650	404800
DATE SAMPLED	5-10-95	5-10-95	5-10-95	4-26-95
BY	JC, BN	JC, BN	JC, BN	MG
DATE TESTED	5-31-95	5-31-95	5-31-95	5-24-95
BY	RW	RW	RW	CAL
SOIL TYPE	Fernald	Fernald	Fernald	Fernald
LABORATORY ID	2 OF 2	1 OF 2	2 OF 2	

Moisture Determinations

DISH NO.	C3	CA2	C3	CA2
WT. OF WET SOIL & DISH	241.04	208.29	230.55	279.00
WT. OF DRY SOIL & DISH	218.18	189.26	206.45	260.33
NET LOSS OF MOISTURE	22.86	19.03	24.10	18.67
WT. OF DISH	106.15	108.62	106.16	108.63
WT. OF DRY SOIL	112.03	80.64	100.29	151.70
MOISTURE CONTENT %	20.4	23.6	24.0	12.3

Data entered by: NAA
Data checked by: RAW Date: 8-11-95
FileName: SANOHDJ

ADVANCED TERRA TESTING, INC.

Moisture Determinations Microwave Moisture
ASTM D 4643

CLIENT: SAIC/Parsons PO 140 JOB NO.: 2059-13B,G,H

BORING	G2-129	G2-125	G2-122	G2-121
SAMPLE DEPTH	5.0-7.5'	2.5-4.5'	10.0-12.0'	12.5-14.5'
SAMPLE NO.	404729	405023	404824	404814
DATE SAMPLED	4-18-95	4-17-95	5-1-95	4-27-95
BY	MC	KP,MM	JM	JM
DATE TESTED	5-30-95	5-24-95	5-24-95	5-24-95
BY	CAL	CAL	CAL	CAL
SOIL TYPE	Fernald	Fernald	Fernald	Fernald
LABORATORY ID				

Moisture Determinations

DISH NO.	C3	CA1	CA1	CA2
WT. OF WET SOIL & DISH	221.53	227.91	264.48	208.00
WT. OF DRY SOIL & DISH	202.79	206.25	247.06	197.76
NET LOSS OF MOISTURE	18.74	21.66	17.42	10.24
WT. OF DISH	106.14	106.18	106.16	108.63
WT. OF DRY SOIL	96.65	100.07	140.90	89.13
MOISTURE CONTENT %	19.4	21.6	12.4	11.5

BORING	G2-120	G2-131	G2-132
SAMPLE DEPTH	5.0-7.0'	7.5-9.5'	5.0-7.0'
SAMPLE NO.	405124	404704	405102
DATE SAMPLED	5-2-95	4-12-95	4-27-95
BY	MM	MG	MM
DATE TESTED	5-25-95	5-31-95	5-31-95
BY	CAL	RW	RW
SOIL TYPE	Fernald	Fernald	Fernald
LABORATORY ID			

Moisture Determinations

DISH NO.	CA1	CA2	C3
WT. OF WET SOIL & DISH	205.11	238.22	258.89
WT. OF DRY SOIL & DISH	191.73	221.08	224.37
NET LOSS OF MOISTURE	13.38	17.14	34.52
WT. OF DISH	106.16	108.63	106.15
WT. OF DRY SOIL	85.57	112.45	118.22
MOISTURE CONTENT %	15.6	15.2	29.2

Data entered by: NAA
Data checked by: RGW Date: 8-11-95
FileName: SANOBGH

ADVANCED TERRA TESTING, INC.

Microwave Moisture Determinations
ASTM D 4643

CLIENT: SAIC/Parsons PO 140 JOB NO.: 2059-13

BORING	G2-132	G2-122	G2-126	G2-126
SAMPLE DEPTH	20.0-22.0'	5.0-7.0'	25.0-27.0'	35.0-37.0'
SAMPLE NO.	405111	404821	404778	404783
DATE SAMPLED	4-27-95	5-1-95	4-24-95	4-24-95
BY	MM	JM	MG	JM
DATE TESTED	7-7-95	7-7-95	7-7-95	7-7-95
BY	MGJ	MGJ	MGJ	MGJ
SOIL TYPE	Fernald	Fernald	Fernald	Fernald
LABORATORY ID				

Moisture Determinations

DISH NO.	C	A	CA2	C
WT. OF WET SOIL & DISH	313.26	395.59	319.33	307.34
WT. OF DRY SOIL & DISH	285.05	354.68	292.66	284.06
NET LOSS OF MOISTURE	28.21	40.91	26.67	23.28
WT. OF DISH	106.15	145.22	108.61	106.15
WT. OF DRY SOIL	178.90	209.46	184.05	177.91
MOISTURE CONTENT %	15.8	19.5	14.5	13.1

BORING	G2-129	G2-131
SAMPLE DEPTH	10.0-12.5'	45.0-47.0'
SAMPLE NO.	404732	404719
DATE SAMPLED	4-18-95	4-13-95
BY	MG	MG
DATE TESTED	7-7-95	7-7-95
BY	MGJ	MGJ
SOIL TYPE	Fernald	Fernald
LABORATORY ID		

Moisture Determinations

DISH NO.	B	A
WT. OF WET SOIL & DISH	324.63	369.43
WT. OF DRY SOIL & DISH	285.63	339.94
NET LOSS OF MOISTURE	39.00	29.49
WT. OF DISH	98.06	145.22
WT. OF DRY SOIL	187.57	194.72
MOISTURE CONTENT %	20.8	15.1

Data entered by: NAA
Data checked by: SL Date: 8-12-95
FileName: SANOG2RM

ADVANCED TERRA TESTING, INC.

MOISTURE & DENSITY

ASTM D 2216 & ASTM D 2937

Moisture & Density Determinations

CLIENT: SAIC/Parsons PO 140 JOB NO.: 2059-13B,D,G,H

BORING	G2-128	G2-129	G2-128	G2-125
SAMPLE DEPTH	7.5-9.5'	10.0-12.5'	17.5-19.5'	2.5-4.5'
SAMPLE NO.	405043	404732	405049	405023
DATE SAMPLED	4-18-95	4-18-95	4-19-95	4-17-95
BY	MM	MM	MM	KP, MM
DATE TESTED	6-5-95	6-5-95	6-5-95	6-10-95
BY	MGJ	MGJ	MGJ	WEB
SOIL TYPE	Fernald	Fernald	Fernald	Fernald
LABORATORY ID				
Density Determinations ASTM D 2937				
Sample Height (IN)	1.050	1.050	1.080	5.930
Sample Diameter (IN)	2.790	2.370	2.860	2.380
Wt of Wet Soil (GMs)	241.38	161.06	280.57	895.69
Sample Volume (CU Ft)	0.00371	0.00268	0.00402	0.01527
WET DENSITY (PCF)	143.2	132.5	154.1	129.3
DRY DENSITY (PCF)	127.8	111.5	138.5	108.8
Moisture Determination ASTM D 2216				
DISH NO.	G48	Z28	G10	Q9
WT. OF WET SOIL & DISH	250.56	169.32	288.86	910.95
WT. OF DRY SOIL & DISH	224.59	143.87	260.49	768.85
NET LOSS OF MOISTURE	25.97	25.45	28.37	142.10
WT. OF DISH	9.18	8.26	8.29	15.22
WT. OF DRY SOIL	215.41	135.61	252.20	753.63
MOISTURE CONTENT %	12.1	18.8	11.2	18.9

BORING	G2-126	G2-133	G2-122	G2-130
SAMPLE DEPTH	12.5-14.5'	2.5-4.5'	15.0-17.0'	20.0-22.0'
SAMPLE NO.	404771	405053	404827	405083
DATE SAMPLED	4-24-95	4-21-95	5-1-95	4-25-95
BY	MM	MM		MM
DATE TESTED	6-10-95	6-10-95	6-10-95	6-10-95
BY	WEB	WEB	WEB	WEB
SOIL TYPE	Fernald	Fernald	Fernald	Fernald
LABORATORY ID				
Density Determinations ASTM D 2937				
Sample Height (IN)	6.010	5.370	5.960	5.570
Sample Diameter (IN)	2.490	2.780	2.380	2.390
Wt of Wet Soil (GMs)	1039.70	1098.10	1013.94	944.55
Sample Volume (CU Ft)	0.01694	0.01886	0.01534	0.01446
WET DENSITY (PCF)	135.3	128.3	145.7	144.0
DRY DENSITY (PCF)	121.9	103.9	130.3	127.1
Moisture Determination ASTM D 2216				
DISH NO.	D3	30B	QT3	G31
WT. OF WET SOIL & DISH	1054.20	79.95	1028.74	952.51
WT. OF DRY SOIL & DISH	951.10	65.43	921.91	841.93
NET LOSS OF MOISTURE	103.10	14.52	106.83	110.58
WT. OF DISH	15.42	3.60	15.26	8.38
WT. OF DRY SOIL	935.68	61.83	906.65	833.55
MOISTURE CONTENT %	11.0	23.5	11.8	13.3

Data entered by: NAA
Data checked by: REW Date: 8-11-95
FileName: SANOBDGH

ADVANCED TERRA TESTING, INC.

ORGANIC MATTER CONTENT

ASTM D 2974

A = Mass of Organic Matter
B = Mass of Ash
% organic matter = $\frac{A}{A+B} \times 100$
A+B = original mass of sample

Total Organic Content

CLIENT SAIC/PARSONS PO 140
LOCATION FERNALD
ADVANCED TERRA TESTING
JOB NO. 2059-13C
PAGE 1 OF 2

SAMPLE & SOIL TYPE	BORING	G2-SB-14	G2-SB-9	G2-SB-13	G2-SB-13	G2-SB-9	G2-SB-13	G2-SB-9	G2-SB-14
	SAMPLE NO.	404577	404584	404580	404582	404585	404581	404586	404576
	SAMPLE DEPTH	1.0-1.5'	0.0-0.5'	0-0.5'	1.0-1.5'	0.5-1.0'	0.5-1.0'	1.0-1.5'	0.5-1.0'
	DATE SAMPLED BY	4-19-95 JC/BN	4-20-95 JWC/WAN	4-20-95	4-20-95	4-20-95 JWC/WAN	4-20-95 JC/BN	4-20-95 JWC/WAN	4-19-95 JC/BN
	DATE TESTED BY	5-27-95 MW	5-27-95 MW	5-27-95 MW	5-27-95 MW	5-27-95 MW	5-28-95 MW	5-28-95 MW	5-28-95 MW
	SOIL TYPE								
	LABORATORY IDENTIFICATION								
DENSITY	NO OF RINGS								
	WT. OF WET SOIL & RINGS								
	WT. OF RINGS								
	WT. OF WET SOIL								
	WET DENSITY (LBS./CU.FT.)								
	DRY DENSITY (LBS./CU.FT.)								
MOISTURE CONTENT	DISH NO.	E-20*	E-100*	E12*	E-13*	L-3+	A+	E-100+	B+
	WT. OF WET SOIL & DISH	~~91.04~~ 90.77 MW	108.75	85.65	131.68	152.12	149.85	116.84	136.56
	WT. OF DRY SOIL & DISH	88.64	105.37	83.97	130.52	150.89	148.55	115.24	135.33
	Mass of Organic Matter A	2.13	3.38	1.68	1.16	1.23	1.30	1.60	1.23
	WT. OF DISH	50.77	49.60	51.90	108.63	98.102 MW	108.63	49.59	106.17
	Mass of Ash B	37.87	55.77	32.07	21.89	52.79	39.92	65.65	29.16
	% organic matter $\frac{A}{A+B} \times 100$	~~5.33~~ 5.7 MW	~~5.71~~ 5.7 MW	~~4.99~~ 5.0 MW	5.02 MW	~~2.5~~ 2.3 MW	3.2	2.4	4.1

* ORGANIC CONTENT FOR THESE SAMPLES WERE DETERMINED ON -10 MATERIAL
\+ ORGANIC CONTENT FOR THESE SAMPLES WERE DETERMINED ON MATERIAL AS SUBMITTED TO LAB.

11-91

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Test By ____ Date ____
Checked by WEB Date 5-29-95

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A = Mass of Organic Matter
B = Mass of Ash
% organic matter = $\frac{A}{A+B} \times 100$
A+B = original mass of sample

Total Organic Content

ADVANCED TERRA TESTING

CLIENT SAIC / PARSONS POLYO

LOCATION FERNALD

JOB NO. 2059-13C

PAGE 2 OF 2

SAMPLE & SOIL TYPE	BORING	62-SD-14							
	SAMPLE NO.	404575							
	SAMPLE DEPTH	0-0.5'							
	DATE SAMPLED BY	4-19-95 JC/BN							
	DATE TESTED BY	5-28-95 RWS							
	SOIL TYPE								
	LABORATORY IDENTIFICATION								
DENSITY	NO. OF RINGS								
	WT. OF WET SOIL & RINGS								
	WT. OF RINGS								
	WT. OF WET SOIL								
	WET DENSITY (LBS./CU.FT.)								
	DRY DENSITY (LBS./CU.FT.)								
MOISTURE CONTENT	DISH NO.	A							
	WT. OF WET SOIL & DISH	134.24							
	WT. OF DRY SOIL & DISH	132.53							
	Mass of Organic Matter A	1.71							
	WT. OF DISH	98.09							
	Mass of Ash B	34.44							
	% organic matter $\frac{A}{A+B} \times 100$	4.7							

Test by ____ Date ____
Checked by KSB Date 5-29-95

11-91

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MOISTURE AND DENSITY DETERMINATIONS

ADVANCED TERRA TESTING

CLIENT SAIC/PARSONS PO140

LOCATION FERNALD

JOB NO. 2059-13C

PAGE 2 OF 2

FOR ORGANIC CONTENT

SAMPLE & SOIL TYPE	BORING	G2-SB-14	G2-SB-9	G2-SB-13	G2-SB-13	G2-SB-9	G2-SB-13	G2-SB-9	G2-SB-14
	SAMPLE NO.	404577	404584	404580	404582	404585	404581	404586	404576
	SAMPLE DEPTH	1.0-1.6'		0-0.5'	1.0-1.5'	0.5-1.0'	0.5-1.0'	1.0-1.5'	0.5-1.0'
	DATE SAMPLED BY	4-19-95 JC/BN	4-20-95 JWL/WAN	4-20-95	4-20-95	4-20-95 JWL/WAN	4-20-95 JC/BN	4-20-95 JWL/WAN	4-19-95 JC/BN
	DATE TESTED BY	5-22-95 MW	5-22-95 MW	5-22-95 MW	5-22-95 MW	5-22-95 MW	5-22-95 MW	5-22-95 MW	5/22-95 MW
	SOIL TYPE								
	LABORATORY IDENTIFICATION								
DENSITY	NO. OF RINGS								
	WT. OF WET SOIL & RINGS								
	WT. OF RINGS								
	WT. OF WET SOIL								
	WET DENSITY (LBS./CU.FT.)								
	DRY DENSITY (LBS./CU.FT.)								
MOISTURE CONTENT	DISH NO.	G7	G13	G16	31H	JUAN	2H	M-16	ABS-5
	WT. OF WET SOIL & DISH	57.26	90.31	52.00	37.19	72.60	59.78	88.57	44.19
	WT. OF DRY SOIL & DISH	48.24	75.22	42.07	31.10	62.27	49.56	75.61	38.70
	NET LOSS OF MOISTURE	9.02	15.09	9.93	6.09	10.33	10.22	12.96	5.49
	WT. OF DISH	8.33	8.43	8.31	8.16	8.25	8.36	8.36	8.31
	WT. OF DRY SOIL	39.91	66.79	33.76	22.94	54.02	41.20	67.25	30.39
	MOISTURE CONTENT (% DRY WT.)	22.6	22.6	29.4	26.6	18.1	24.8	19.3	18.1

Test by ____ Date ____
Checked by WEB Date 5-29-95

33A

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This page added 8/29/95.

MOISTURE AND DENSITY DETERMINATIONS

ADVANCED TERRA TESTING

CLIENT SAIC/PARSONS PO140 JOB NO. 2059-13C

LOCATION FERNALD PAGE 2 OF 2

FOR ORGANIC CONTENT

SAMPLE & SOIL TYPE	BORING																		
	SAMPLE NO.																		
	SAMPLE DEPTH																		
	DATE SAMPLED BY																		
	DATE TESTED BY																		
	SOIL TYPE																		
	LABORATORY IDENTIFICATION																		
DENSITY	NO. OF RINGS																		
	WT. OF WET SOIL & RINGS																		
	WT. OF RINGS																		
	WT. OF WET SOIL																		
	WET DENSITY (LBS./CU.FT.)																		
	DRY DENSITY (LBS./CU.FT.)																		
MOISTURE CONTENT	DISH NO.																		
	WT. OF WET SOIL & DISH																		
	WT. OF DRY SOIL & DISH																		
	NET LOSS OF MOISTURE																		
	WT. OF DISH																		
	WT. OF DRY SOIL																		
	MOISTURE CONTENT (% DRY WT.)																		
	BORING	62-SB-14																	
	SAMPLE NO.	404575																	
	SAMPLE DEPTH	0-0.5'																	
	DATE SAMPLED BY	4-19-95 JC/BN																	
	DATE TESTED BY	5-22-95 AMT																	
	SOIL TYPE																		
	LABORATORY IDENTIFICATION																		
DENSITY	NO. OF RINGS																		
	WT. OF WET SOIL & RINGS																		
	WT. OF RINGS																		
	WT. OF WET SOIL																		
	WET DENSITY (LBS./CU.FT.)																		
	DRY DENSITY (LBS./CU.FT.)																		
MOISTURE CONTENT	DISH NO.	29																	
	WT. OF WET SOIL & DISH	52.56																	
	WT. OF DRY SOIL & DISH	44.48																	
	NET LOSS OF MOISTURE	8.15																	
	WT. OF DISH	8.33																	
	WT. OF DRY SOIL	36.08																	
	MOISTURE CONTENT (% DRY WT.)	22.6																	

This page added 8/29/95.

33 B

Test by [illegible] Date 000073

Checked by WEB Date 5-29-95

11-91

A = Mass of Organic Matter
B = Mass of Ash
% organic matter = $\frac{A}{A+B} \times 100$
A+B = original mass of sample

Total Organic Content

ADVANCED TERRA TESTING

CLIENT SMC / PARSONS PO/40

LOCATION FERNALD

JOB NO. 059-135

PAGE 1 OF 2

SAMPLE & SOIL TYPE	BORING	62-SB-6	62-SB-3	62-SB-10	62-SB-6	62-SB-10	62-SB-1	62-SB-7	62-SB-12
	SAMPLE NO.	404593	404589	404636	404594	404635	404606	404629	404598
	SAMPLE DEPTH	0.5-1.0'	0.5-1.0'	1.0-1.5'	1.0-1.5'	0.5'-1.0'	0.5'-1.0'	0-0.5'	1.0-1.5'
	DATE SAMPLED BY	4-21-95 JC/BN	4-21-95 JC/BN	4-26-95 JC/BN	4-21-95 JC/BN	4-26-95 JC/BN	4-24-95 JC/BN	4-26-95 JC/BN	4-21-95 JC/BN
	DATE TESTED BY	6-4-95 MW	6-5-95 MW	6-5-95 MW	6-5-95 MW	6-5-95 MW	6-6-95 MW	6-6-95 MW	6-6-95 MW
	SOIL TYPE								
	LABORATORY IDENTIFICATION								
DENSITY	NO OF RINGS								
	WT. OF WET SOIL & RINGS								
	WT. OF RINGS								
	WT. OF WET SOIL								
	WET DENSITY (LBS./CU.FT.)								
	DRY DENSITY (LBS./CU.FT.)								
MOISTURE CONTENT	DISH NO.	151	192	151	46-P	191	192	192	151
	WT. OF WET SOIL & DISH	90.34	98.65	102.24	144.64	100.34	91.80	104.88	80.60
	WT. OF DRY SOIL & DISH	89.25	97.38	100.49	143.35	99.11	89.77	102.33	80.08
	Mass of Organic Matter A	1.09	1.27	1.75	1.29	1.23	2.03	2.55	0.52
	WT. OF DISH	49.58	50.76	49.57	98.06	51.88	50.75	50.77	49.60
	Mass of Ash B	39.67	46.62	50.92	45.29	47.23	39.02	51.56	30.48
	% organic matter $\frac{A}{A+B} \times 100$	2.7	2.7	3.3 ~~3.3~~ WB	2.8	2.5	4.9	4.7	1.7

~~3.4~~ R

Test By ____ Date ____
Checked by MW Date 6-8-95

11-91

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A = Mass of Organic Matter
B = Mass of Ash
% organic matter = $\frac{A}{A+B} \times 100$
A+B = original mass of sample

Total Organic Content

ADVANCED TERRA TESTING

CLIENT SAIC/PALADINS PO 140

LOCATION FEENALD

JOB NO. 2057-13E

PAGE 2 OF 2

SAMPLE & SOIL TYPE	BORING	62-SB-3	62-SB-12	62-SB-6	62-SB-7	62-SB-10			
	SAMPLE NO.	404590	404596	404592	404630	404624			
	SAMPLE DEPTH	1.0-1.5'	0-0.5'	0-0.5'	0.5-1.0'	0-0.5'			
	DATE SAMPLED BY	4-21-95	4-21-95 JC/BN	4-21-95 JC/BN	4-26-95	4-26-95 JC/BN			
	DATE TESTED BY	6-6-95 MW	6-7-95 MW	6-7-95 MW	6-7-95 MW	6-7-95 MW			
	SOIL TYPE								
	LABORATORY IDENTIFICATION								
DENSITY	NO. OF RINGS								
	WT. OF WET SOIL & RINGS								
	WT. OF RINGS								
	WT. OF WET SOIL								
	WET DENSITY (LBS./CU.FT.)								
	DRY DENSITY (LBS./CU.FT.)								
MOISTURE CONTENT	DISH NO.	191	07	192	191	151			
	WT. OF WET SOIL & DISH	92.86	157.46	101.71	95.31	78.95			
	WT. OF DRY SOIL & DISH	91.94	155.47	99.44	94.23	77.46			
	Mass of Organic Matter A	0.92	1.99	2.27	1.08	1.49			
	WT. OF DISH	51.91	106.17	50.77	51.90	49.59			
	Mass of Ash B	40.03	49.30	48.67	42.33	27.87			
	% organic matter $\frac{A}{A+B} \times 100$	2.2	3.9	4.5	2.5	5.1			

Test by ____ Date ____
Checked by WEB Date 6-8-95

11-91

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FOR ORGANIC CONTENT

MOISTURE AND DENSITY DETERMINATIONS

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ADVANCED TERRA TESTING

CLIENT SAIC/PARSONS PO/40

LOCATION FERNALD

JOB NO. 2059-13E

PAGE 1 OF 2

SAMPLE & SOIL TYPE	BORING	G2-SB-6	G2-SB-3	G2-SB-10	G2-SB-6	G2-SB-10	G2-SB-1	G2-SB-7	G2-SB-12
	SAMPLE NO.	404593	404589	404636	404594	404635	404606	404629	404588
	SAMPLE DEPTH	0.5-1.0'	0.5-1.0	1.0-1.5'	1.0-1.5'	0.5"-1.0'	0.5"-1.0'	0-0.5'	1.0-1.5'
	DATE SAMPLED BY	4-21-95 JC/BN	4-21-95 JC/BN	4-26-95 JC/BN	4-21-95 JC/BN	4-26-95 JC/BN	4-24-95 JC/BN	4-26-95 JC/BN	4-21-95 JC/BN
	DATE TESTED BY	6-4-95 KW	6-5-95 KW	6-5-95 KW	6-5-95 KW	6-5-95 KW	6-5-95 KW	6-5-95 KW	6-5-95 KW
	SOIL TYPE								
	LABORATORY IDENTIFICATION								
DENSITY	NO. OF RINGS								
	WT. OF WET SOIL & RINGS								
	WT. OF RINGS								
	WT. OF WET SOIL								
	WET DENSITY (LBS./CU.FT.)								
	DRY DENSITY (LBS./CU.FT.)								
MOISTURE CONTENT	DISH NO.	G21	G30	F-19	JUAN	10H	93	G-49	G-39
	WT. OF WET SOIL & DISH	56.70	66.03	74.24	63.55	68.84	60.83	80.71	44.52
	WT. OF DRY SOIL & DISH	49.04	56.18	60.88	54.61	57.05	49.20	62.40	39.27
	NET LOSS OF MOISTURE	7.66	9.85	13.36	8.94	11.79	11.63	18.31	5.25
	WT. OF DISH	8.31	8.35	8.30	8.26	8.70	8.23	8.36	8.30
	WT. OF DRY SOIL	40.73	47.83	52.58	46.35	48.35	40.97	54.04	30.97
	MOISTURE CONTENT (% DRY WT.)	18.8	20.6	25.4	19.3	24.4	28.4	33.9	17.0

Tested by _____ Date _____

Checked by WEB Date 6-8-95

This page added 8/29/95.

35 A

11-91

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FOR ORGANIC CONTENT

MOISTURE AND DENSITY DETERMINATIONS

474

ADVANCED TERRA TESTING

CLIENT SAIC/PARSONS PO 140

JOB NO. 2059-13E

LOCATION FERNALD

PAGE 2 OF 2

SAMPLE & SOIL TYPE	BORING	G2-SB-3	G2-SB-12	G2-SB-6	G2-SB-7	G2-SB-10			
	SAMPLE NO.	404580	404596	404592	404630	404634			
	SAMPLE DEPTH	1.0-1.5'	0-0.5"	0-0.5"	0.5-1.0'	0.-0.5"			
	DATE SAMPLED BY	4-21-95	4-21-95 JC/BN	4-21-95 JC/BN	4-26-95	4-26-95 JC/BN			
	DATE TESTED BY	6-22-95 MW	6-22-95 MW	6-22-95 MW	6-22-95 MW	6-22-95 MW			
	SOIL TYPE								
	LABORATORY IDENTIFICATION								
DENSITY	NO. OF RINGS								
	WT. OF WET SOIL & RINGS								
	WT. OF RINGS								
	WT. OF WET SOIL								
	WET DENSITY (LBS./CU.FT.)								
	DRY DENSITY (LBS./CU.FT.)								
MOISTURE CONTENT	DISH NO.	D-13	24-H	JUAN	93	10H			
	WT. OF WET SOIL & DISH	57.78	71.99	72.57	61.77 MW	47.28			
	WT. OF DRY SOIL & DISH	49.08	59.94	59.10 MW	51.60 MW	38.02			
	NET LOSS OF MOISTURE	8.70	12.05	13.47	10.17	9.26			
	WT. OF DISH	8.16	8.68	8.25	8.21	8.70			
	WT. OF DRY SOIL	40.92	51.26	50.85	43.39	29.32			
	MOISTURE CONTENT (% DRY WT.)	21.3	23.5	26.5	23.4	31.6			

This page added 8/29/95.

35B

Test by 1 Date

Checked by WEB Date 6-8-95

11-91

000077

A = Mass of Organic Matter
B = Mass of Ash
% organic matter = $\frac{A}{A+B} \times 100$
A+B = original mass of sample

Total Organic Content

ADVANCED TERRA TESTING

CLIENT SAIC / PARSONS PO/140

LOCATION FERNALD

JOB NO. 2057-13

PAGE 1 OF 1

SAMPLE & SOIL TYPE	BORING	62-SB-8	62-SB-7	62-SB-5					
	SAMPLE NO.	404626	404631	404626					
	SAMPLE DEPTH	1'-1.5'	1.0'-1.5'	1'-1.5'					
	DATE SAMPLED BY	4-25-95 JC/BN	4-25-95	4-26-95 JC/BN					
	DATE TESTED BY	5-22-95 MW	5-22-95 MW	5-22-95 MW					
	SOIL TYPE								
	LABORATORY IDENTIFICATION								
DENSITY	NO. OF RINGS								
	WT. OF WET SOIL & RINGS								
	WT. OF RINGS								
	WT. OF WET SOIL								
	WET DENSITY (LBS./CU.FT.)								
	DRY DENSITY (LBS./CU.FT.)								
MOISTURE CONTENT	DISH NO.	192	191	46-P					
	WT. OF WET SOIL & DISH	94.19	90.40	141.94					
	WT. OF DRY SOIL & DISH	92.45	89.03	139.98					
	Mass of Organic Matter A	1.74	1.37	1.96					
	WT. OF DISH	50.76	51.90	98.08					
	Mass of Ash B	41.69	37.13	41.90					
	% organic matter $\frac{A}{A+B} \times 100$	4.0	3.6	4.5					

Tested by ____ Date ____
Checked by WEB Date 6-7-95

11-91

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MOISTURE AND DENSITY DETERMINATIONS

ADVANCED TERRA TESTING

CLIENT SAIC/PARSONS PO 140 JOB NO. 2059-13

LOCATION FERNALD PAGE 1 OF 1

FOR ORGANIC CONTENT

SAMPLE & SOIL TYPE	BORING	62-SB-8	62-SB-7	62-SB-5																			
	SAMPLE NO.	404620	404631	404626																			
	SAMPLE DEPTH	1'-1.5'	1.0'-1.5'	1'-1.5'																			
	DATE SAMPLED BY	4-25-95 JC/BN	4-25-95	4-26-95 JC/BN																			
	DATE TESTED BY	5-22-95 MNT	5-22-95 MNT	5-22-95 MNT																			
	SOIL TYPE																						
	LABORATORY IDENTIFICATION																						
DENSITY	NO. OF RINGS																						
	WT. OF WET SOIL & RINGS																						
	WT. OF RINGS																						
	WT. OF WET SOIL																						
	WET DENSITY (LBS./CU.FT.)																						
	DRY DENSITY (LBS./CU.FT.)																						
MOISTURE CONTENT	DISH NO.	B4	204	E83																			
	WT. OF WET SOIL & DISH	60.85	56.68	61.35																			
	WT. OF DRY SOIL & DISH	51.72	47.13	52.14																			
	NET LOSS OF MOISTURE	9.13	9.55	9.21																			
	WT. OF DISH	8.43	8.68	8.34																			
	WT. OF DRY SOIL	43.29	38.45	43.80																			
	MOISTURE CONTENT (% DRY WT.)	21.1	24.8	21.0																			

This page added 8/29/95.

36A

Test by _____ Date _____

Checked by WEB Date 6-7-95

11-91

A = Mass of Organic Matter
B = Mass of Ash
% organic matter = $\frac{A}{A+B} \times 100$
A+B = original mass of sample

Total Organic Content

CLIENT SAIC/Pathfinds PO140
LOCATION FERNALD
ADVANCED TERRA TESTING
JOB NO. 2059-131
PAGE 1 OF 2

SAMPLE & SOIL TYPE	BORING	62-SB-3	62-SB-2	62-SB-5	62-SB-8	62-SB-8	62-SB-1	62-SB-5	62-SB-4
	SAMPLE NO.	404588	404601	404624	404618	404619	404605	404625	404614
	SAMPLE DEPTH	0'-0.5'	0.5'-1.0'	0'-0.5'	0'-0.5'	0.5'-1.0'	0'-0.5'	0.5'-1.0'	1'-1.5'
	DATE SAMPLED BY	4-21-95 JC/BN	4-25-95	4-25-95	4-25-95 JC/BN	4-25-95 JC/BN	4-24-95	4-26-95 JC/BN	4-25-95 JC/BN
	DATE TESTED BY	5-22-95 MW	5-22-95 MW	5-22-95 MW	5-22-95 MW	5-22-95 MW	5-22-95 MW	5-22-95 MW	5-22-95 MW
	SOIL TYPE								
	LABORATORY IDENTIFICATION								
DENSITY	NO OF RINGS								
	WT. OF WET SOIL & RINGS								
	WT. OF RINGS								
	WT. OF WET SOIL								
	WET DENSITY (LBS./CU.FT.)								
	DRY DENSITY (LBS./CU.FT.)								
MOISTURE CONTENT	DISH NO	B	C	E-100	E12	A	B	C	A
	WT. OF WET SOIL & DISH	144.56	153.37	107.27	96.44	144.61	157.26	167.44	153.91
	WT OF DRY SOIL & DISH	142.77	152.32	104.79	94.60	143.38	153.76	164.84	152.47
	Mass of Organic Matter A	1.79	1.05	2.48	1.84	1.23	3.50	2.60	1.44
	WT. OF DISH	108.63	106.17	49.59	51.91	98.09	108.63	106.16	98.07
	Mass of Ash B	34.14	46.15	55.20	42.69	45.29	45.13	58.68	54.40
	% organic matter $\frac{A}{A+B} \times 100$	5.0	2.2	4.3	4.1	2.6	7.2	4.2	2.6

Test by ____ Date ____
Checked by WBB Date 6-5-95

11-91

37

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A = Mass of Organic Matter
B = Mass of Ash
% organic matter = $\frac{A}{A+B} \times 100$
A+B = original mass of sample

Total Organic Content

CLIENT SAIC / PATRIONS PO/140
LOCATION FERNALD
ADVANCED TERRA TESTING
JOB NO. 2059-13 I
PAGE 2 OF 2

SAMPLE & SOIL TYPE	BORING	62-SB-1	62-SB-4	62-SB-12	62-SB-4	62-SB-2	62-SB-2		
	SAMPLE NO.	404607	404613	404597	404612	404602	404600		
	SAMPLE DEPTH	1.0'-1.5'	.5-1.0' ~~0-0.5~~ na	.5-1.0' ~~0-0.5~~ na	0.0'-0.5'	1'-1.5'	0'-0.5'		
	DATE SAMPLED BY	4-24-95 JC/BN	4-25-95 JC/BN	4-21-95 JC/BN	4-25-95 JC/BN	4-24-95 JC/BN	4-24-95 JC/BN		
	DATE TESTED BY	5-22-95 NW	5-22-95 NW	5-22-95 NW	5-22-95 NW	5-22-95 NW	5-22-95 NW		
	SOIL TYPE								
	LABORATORY IDENTIFICATION								
DENSITY	NO OF RINGS								
	WT. OF WET SOIL & RINGS								
	WT. OF RINGS								
	WT. OF WET SOIL								
	WET DENSITY (LBS./CU.FT.)								
	DRY DENSITY (LBS./CU.FT.)								
MOISTURE CONTENT	DISH NO.	192	C3	151	46-P	191	151		
	WT OF WET SOIL & DISH	96.40	160.22	90.56	138.35	102.64	99.31		
	WT. OF DRY SOIL & DISH	94.10	158.27	89.62	136.64	100.38	95.64		
	Mass of Organic Matter A	2.30	1.95	0.94	1.71	2.26	3.67		
	WT. OF DISH	50.76	106.16	49.59	98.08	51.90	49.59		
	Mass of Ash B	43.34	52.11	40.03	38.56	48.48	46.05		
	% organic matter $\frac{A}{A+B} \times 100$	5.0	3.6	2.3	4.2	4.5	7.4		

Test by ____ Date ____
Checked by 46B Date 6-5-95

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MOISTURE AND DENSITY DETERMINATIONS

474

ADVANCED TERRA TESTING

CLIENT SAIC/PARSONS PO 140

LOCATION FERNALD

JOB NO. 2059-12 I

PAGE 1 OF 2

FOR ORGANIC CONTENT

		RP	RP						
SAMPLE & SOIL TYPE	BORING	62-SB-3	62-SB-2	62-SB-5	62-SB-8	62-SB-8	62-SB-1	62-SB-5	62-SB-4
	SAMPLE NO.	404588	404601	404624	404618	404619	404605	404625	404614
	SAMPLE DEPTH	0'-0.5'	0.5'-1.0'	0'-0.5'	0'-0.5'	0.5'-1.0'	0'-0.5'	0.5'-1.0'	1'-1.5'
	DATE SAMPLED BY	4-21-95 JC/BN	4-25-95	4-25-95	4-25-95 JC/BN	4-25-95 JC/BN	4-24-95	4-26-95 JC/BN	4-25-95 JC/BN
	DATE TESTED BY	5-22-95 MW	5-22-95 MW	5-22-95 MW	5-22-95 MW	5-22-95 MW	5-22-95 MW	5-22-95 MW	5/22/95 MW
	SOIL TYPE								
	LABORATORY IDENTIFICATION								
DENSITY	NO. OF RINGS								
	WT. OF WET SOIL & RINGS								
	WT. OF RINGS								
	WT. OF WET SOIL								
	WET DENSITY (LBS./CU.FT.)								
	DRY DENSITY (LBS./CU.FT.)								
MOISTURE CONTENT	DISH NO.	F-13	JUAN	2H	8Z	D0	20Z	A18	G-13
	WT. OF WET SOIL & DISH	56.57	63.37	79.51	58.87	60.00	73.11	78.04	75.15 ~~75.18~~ MW
	WT. OF DRY SOIL & DISH	44.18	55.41	65.97	48.29	~~6~~ 50.21 6-23-95	52.29	65.07	64.22
	NET LOSS OF MOISTURE	11.39	7.96	13.54	10.58	9.79	20.82	12.97	10.93
	WT. OF DISH	8.33	8.26	8.35	3.80	3.74	3.76	3.84	8.43
	WT. OF DRY SOIL	35.85	47.15	57.62	44.49	46.47	48.53	61.23	55.79
	MOISTURE CONTENT (% DRY WT.)	31.8	16.9	23.5	23.8	21.1	42.9	21.2	19.6 MB

Test by _____ Date _____

Checked by MB Date 6-5-95

This page added 8/29/95.

38A

11-91

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MOISTURE AND DENSITY DETERMINATIONS

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ADVANCED TERRA TESTING

CLIENT SAIC/PARSONS PO 140

LOCATION FERNALD

JOB NO. 2059-13T

PAGE 2 OF 2

FOR ORGANIC CONTENT

SAMPLE & SOIL TYPE	BORING	G2-SB-1	G2-SB-4	G2-SB-12	G2-SB-4	G2-SB-2	G2-SB-2		
	SAMPLE NO.	404607	404613	404597	404612	404602	404600		
	SAMPLE DEPTH	1.0'-1.5'	0.5'-1.0' ~~0-0.5~~	0'-0.5'	0.0'-0.5'	1'-1.5'	0-0.5'		
	DATE SAMPLED BY	4-24-95 JC/BN	4-25-95 JC/BN	4-21-95 JC/BN	4-25-95 JC/BN	4-24-95 JC/BN	4-24-95 JC/BN		
	DATE TESTED BY	5-23-95 MW	5-23-95 MW	5-22-95 MW	5-23-95 MW	5-24-95 MW	5-24-95 MW		
	SOIL TYPE								
	LABORATORY IDENTIFICATION								
DENSITY	NO. OF RINGS								
	WT. OF WET SOIL & RINGS								
	WT. OF RINGS								
	WT. OF WET SOIL								
	WET DENSITY (LBS./CU.FT.)								
	DRY DENSITY (LBS./CU.FT.)								
MOISTURE CONTENT	DISH NO.	G-16	MS-7	O.S.	F-8	D-17	G-43		
	WT. OF WET SOIL & DISH	65.22	72.21	56.24	57.18	68.27	78.57		
	WT. OF DRY SOIL & DISH	53.93	62.26	49.21	48.56	58.55	58.07		
	NET LOSS OF MOISTURE	11.29	9.95	7.03	8.62	9.72	20.50		
	WT. OF DISH	8.31	8.26	8.29	8.37	8.24	8.49		
	WT. OF DRY SOIL	45.62	54.00	40.92	40.19	50.31	49.58		
	MOISTURE CONTENT (% DRY WT.)	24.8	18.4	17.2	21.5 ~~17.7~~ MW	19.3	41.4		

11-91

This page added 8/29/95.

38B

Test by _____ Date _____

Checked by MGB Date 6-5-95

000083

A = mass of Organic Matter
B = mass of Ash
% ORGANIC MATTER = $\frac{A}{A+B} \times 100$
A + B = original mass of sample

MOISTURE AND ORGANIC CONTENT DETERMINATION

ADVANCED TECHNA TESTING

CLIENT Parsons PB 140

LOCATION Fernald / JAR

JOB NO. 2059-13K

PAGE OF

SAMPLE & SOIL TYPE	BORING	G2-SB-11	62-SB-11	62-SB-11					
	SAMPLE NO.	404639	404640	404641					
	SAMPLE DEPTH	0-.5'	0.5'-1.0'	1.0-1.5'					
	DATE SAMPLED BY	4-27-95 JC/BN	4-27-95 JC/BN	4-27-95 JC/BN					
	DATE TESTED BY	5-24-95 MW/cmc	5-24-95 MW/cmc	5-24-95 MW/cmc					
	SOIL TYPE								
	LABORATORY IDENTIFICATION								
MOISTURE CONTENT	DISH NO.	G-7	G-13	G-16					
	WT. OF WET SOIL & DISH gm	213.91	272.58	259.45					
	WT. OF DRY SOIL & DISH gm	178.42	220.15	211.56					
	NET LOSS OF MOISTURE gm	35.49	52.43	47.89					
	WT. OF DISH gms	8.33	8.43	8.32					
	WT. OF DRY SOIL gm	170.09	211.72	203.24					
	MOISTURE CONTENT (% DRY WT.)	20.9	24.8	23.6					
ORGANIC CONTENT	DISH NO.	A	192	151					
	WT. OF WET SOIL & DISH	268.35	138.06	145.79					
	WT OF DRY SOIL & DISH	264.49	135.51	143.04					
	Mass of Organic matter A	3.86	2.55	2.75					
	WT. OF DISH	98.08	50.76	49.59					
	Mass of Ash B	166.41	84.75	93.45					
	% organic matter $\frac{A}{A+B} \times 100$	2.3	2.9	2.9					

Test by ____ Date ____
Checked by WEB Date 5-31-95

ATTERBERG LIMITS
ASTM D 4318

ATTERBERG LIMITS TEST
ASTM D 4318

CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13G

BORING NO.	G2-120	SAMPLED	5-2-95
DEPTH	5.0-7.0'	TEST STARTED	6-5-95 WEB
SAMPLE NO.	405124	TEST FINISHED	6-6-95 WEB
SOIL DESCR.	Fernald		
TEST TYPE	ATTERBERG		

Plastic Limit
Determination

	1	2	3
Dish	2013	4114	2011
Wt Dish & Wet Soil	8.67	8.22	9.12
Wt Dish & Dry Soil	7.62	7.27	8.02
Wt of Moisture	1.05	0.95	1.10
Wt of Dish	1.05	1.05	1.05
Wt of Dry Soil	6.57	6.22	6.97
Moisture Content	15.98	15.27	15.78

Liquid Limit Device Number 0258
Determination

	1	2	3	4	5
Dish	40C	2065	B22	2004	B14
Number of Blows	50	43	29	14	9
Wt Dish & Wet Soil	18.75	19.59	19.97	22.07	21.49
Wt Dish & Dry Soil	14.91	15.47	15.58	16.90	16.17
Wt of Moisture	3.84	4.12	4.39	5.17	5.32
Wt of Dish	1.06	1.05	1.05	1.05	1.04
Wt of Dry Soil	13.85	14.42	14.53	15.85	15.13
Moisture Content	27.73	28.57	30.21	32.62	35.16
Calculated Moisture cont	27.824	28.445	30.068	33.067	34.886

Liquid Limit	30.7
Plastic Limit	15.7
Plasticity Index	15.0

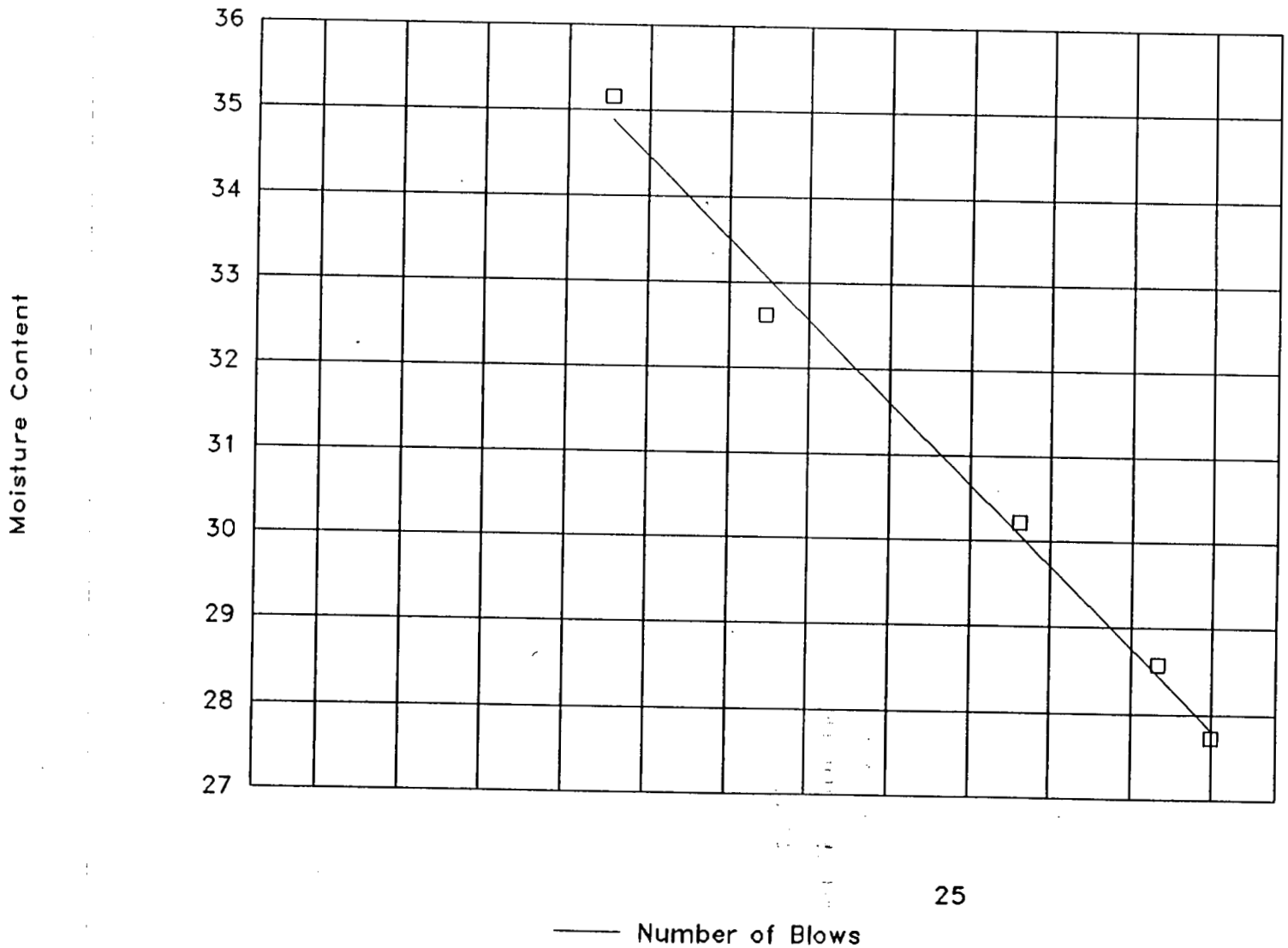
Atterberg Classification CL

Data entry by: NAA Date: 6-6-95
Checked by: Date: 6-7-95
FileName: SAG05124

ADVANCED TERRA TESTING, INC.

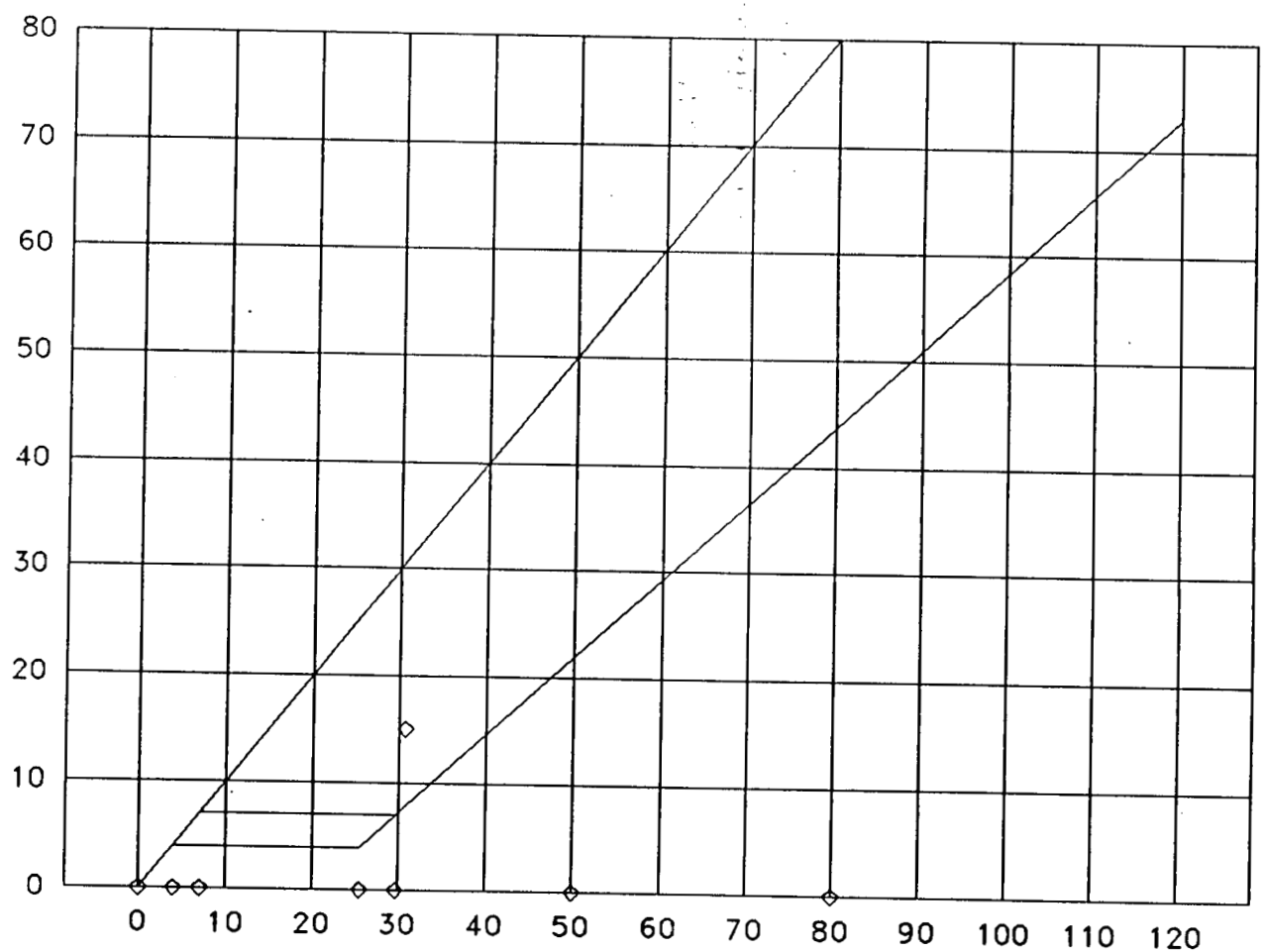
Atterberg Limits, Flow Curve

G2-120, 5.0-7.0', 405124



PLASTICITY CHART

G2-120, 5.0-7.0', 405124



Liquid Limit

◇ Classification

ATTERBERG LIMITS TEST
ASTM D 4318

CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13G
BORING NO.	G2-121	SAMPLED	4-27-95
DEPTH	10.0-11.7'	TEST STARTED	6-07-95
SAMPLE NO.	404812	TEST FINISHED	6-08-95
SOIL DESCR.	Fernald		
TEST TYPE	ATTERBERG		

Plastic Limit
Determination

	1	2	3
Dish	39C	B4	4108
Wt Dish & Wet Soil	5.46	5.90	5.58
Wt Dish & Dry Soil	4.88	5.27	4.99
Wt of Moisture	0.58	0.63	0.59
Wt of Dish	1.07	1.05	1.05
Wt of Dry Soil	3.81	4.22	3.94
Moisture Content	15.22	14.93	14.97

Liquid Limit Device Number 0255
Determination

	1	2	3	4	5
Dish	4	6C	3102	16C	26C
Number of Blows	49	35	29	15	13
Wt Dish & Wet Soil	9.61	12.40	10.31	11.36	10.28
Wt Dish & Dry Soil	7.92	10.08	8.35	9.10	8.18
Wt of Moisture	1.69	2.32	1.96	2.26	2.10
Wt of Dish	1.04	1.06	1.04	1.08	1.06
Wt of Dry Soil	6.88	9.02	7.31	8.02	7.12
Moisture Content	24.56	25.72	26.81	28.18	29.49

Liquid Limit	26.9
Plastic Limit	15.0
Plasticity Index	11.9

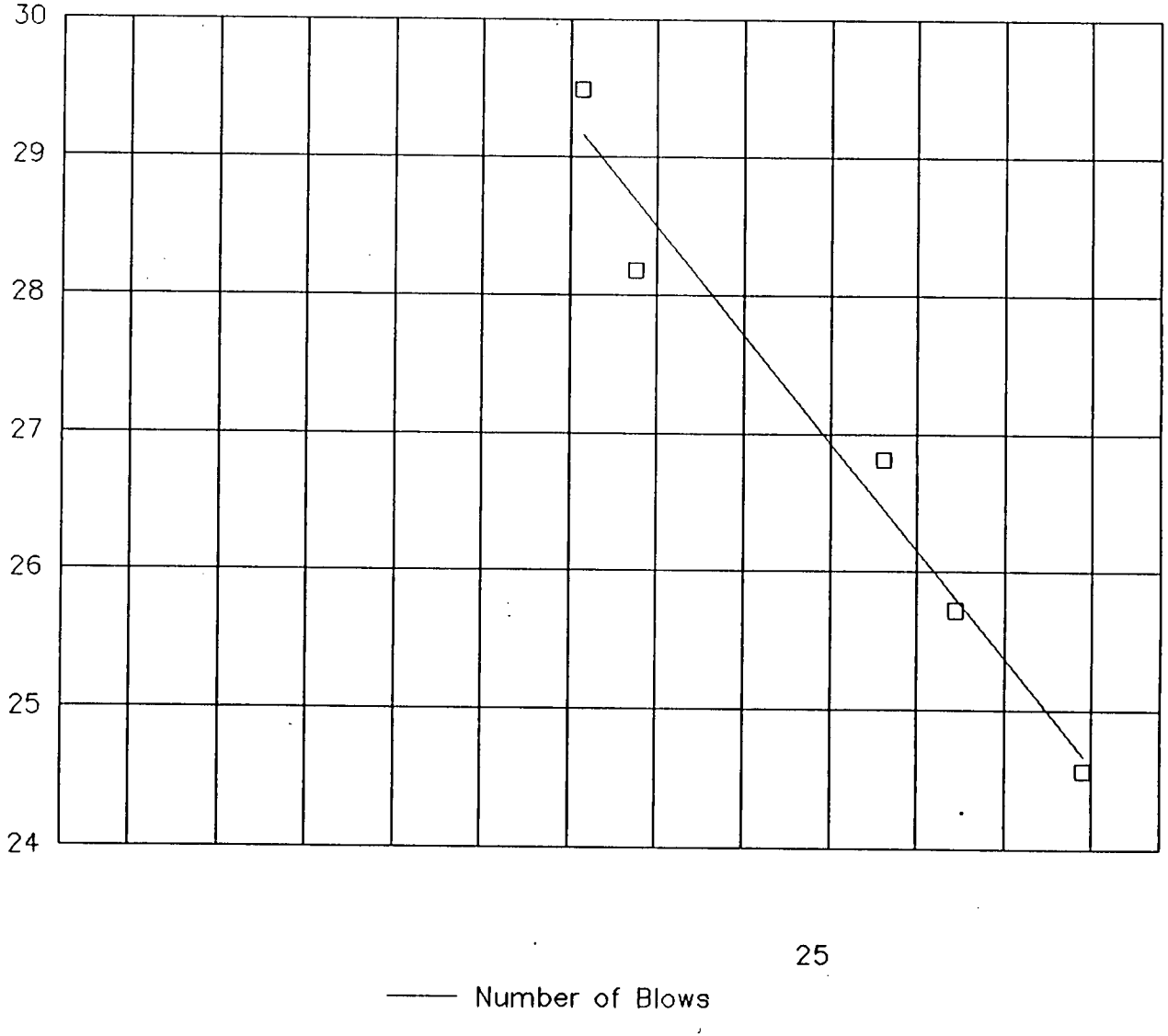
Atterberg Classification CL

Data entry by: CAL Date: 6-08-95
Checked by: Date: 6-9-95
FileName: SAG0812

ADVANCED TERRA TESTING, INC.

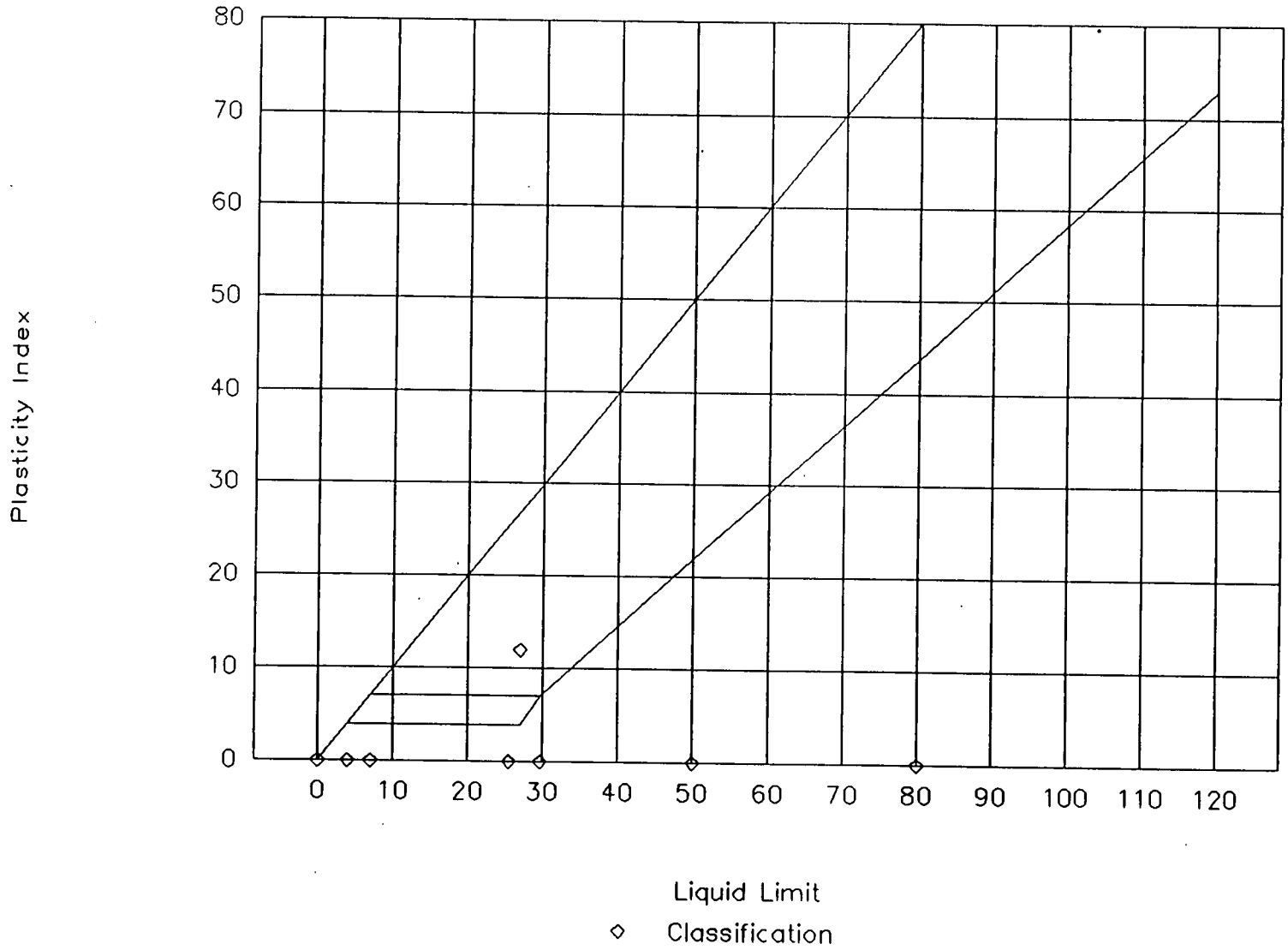
Atterberg Limits, Flow Curve

G2-121, 10.0-11.7', 404812



PLASTICITY CHART

G2-121, 10.0-11.7', 404812



000091

4274

ATTERBERG LIMITS TEST
ASTM D 4318

CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13G
BORING NO.	G2-121	SAMPLED	4-27-95 WB
DEPTH	12.5-14.5'	TEST STARTED	6-2-95 WEB
SAMPLE NO.	404814	TEST FINISHED	6-5-95 WEB
SOIL DESCR.	Fernald		
TEST TYPE	ATTERBERG		

Plastic Limit
Determination

	1	2	3
Dish	2037	2071	2052
Wt Dish & Wet Soil	9.98	8.37	9.91
Wt Dish & Dry Soil	8.85	7.46	8.78
Wt of Moisture	1.13	0.91	1.13
Wt of Dish	1.05	1.05	1.03
Wt of Dry Soil	7.80	6.41	7.75
Moisture Content	14.49	14.20	14.58

Liquid Limit Device Number 0258
Determination

	1	2	3	4	5
Dish	38C	2015	28C	B23	5C
Number of Blows	17	20	30	38	10
Wt Dish & Wet Soil	21.17	23.44	20.56	19.41	23.90
Wt Dish & Dry Soil	16.78	18.72	16.58	15.77	18.47
Wt of Moisture	4.39	4.72	3.98	3.64	5.43
Wt of Dish	1.05	1.06	1.05	1.04	1.06
Wt of Dry Soil	15.73	17.66	15.53	14.73	17.41
Moisture Content	27.91	26.73	25.63	24.71	31.19
Calculated Moisture cont	28.189	27.415	25.485	24.360	30.714

Liquid Limit	26.4
Plastic Limit	14.4
Plasticity Index	11.9

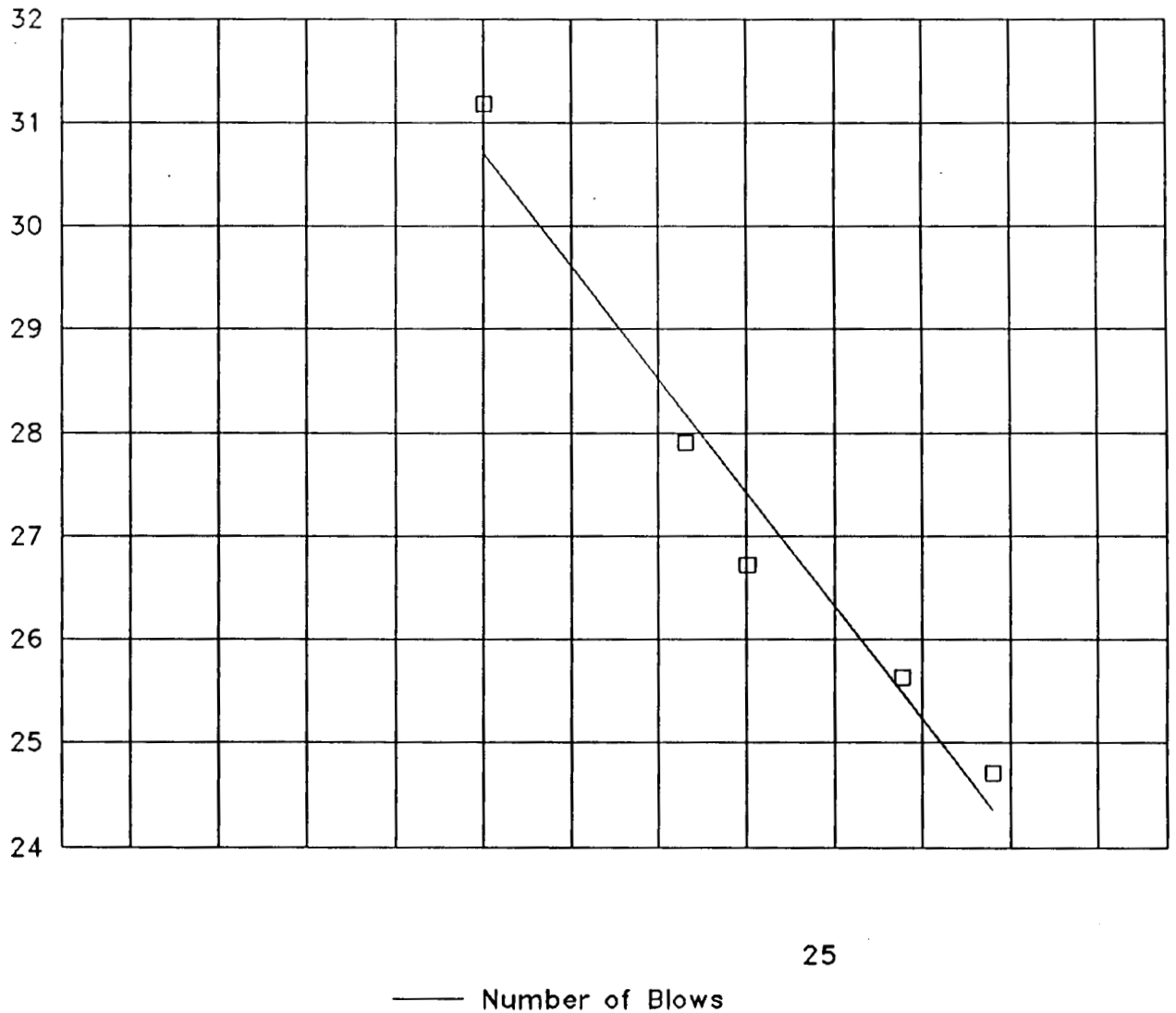
Atterberg Classification CL

Data entry by: NAA Date: 6-5-95
Checked by: [illegible] Date: 6-5-95
FileName: SAG0814

ADVANCED TERRA TESTING, INC.

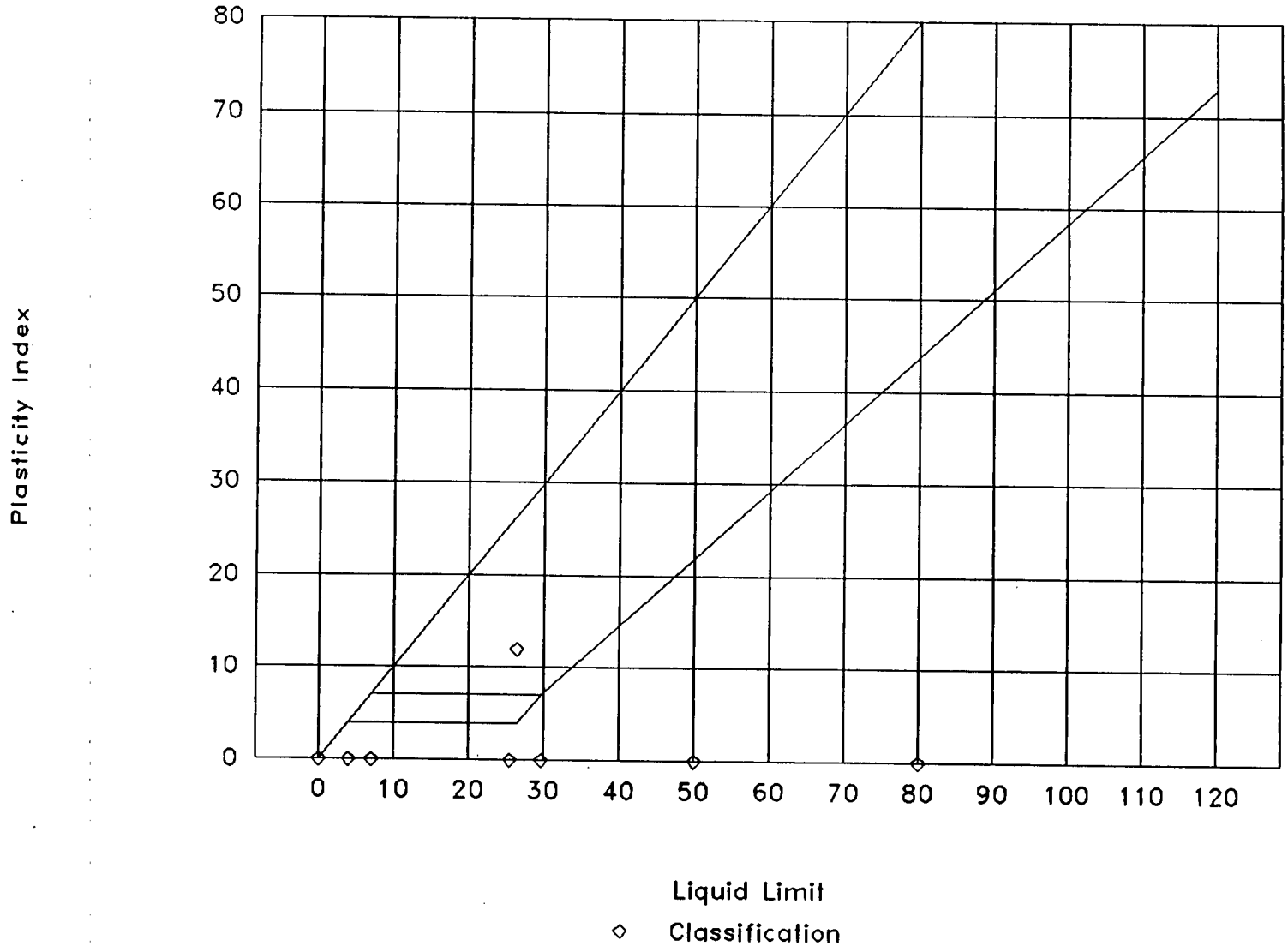
Atterberg Limits, Flow Curve

G2-121, 12.5-14.5', 404814



PLASTICITY CHART

G2-121, 12.5-14.5', 404814



ATTERBERG LIMITS TEST

ASTM D 4318

CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13G
BORING NO.	G2-121	SAMPLED	4-27-95 WB
DEPTH	17.5-19.5'	TEST STARTED	6-2-95 WEB
SAMPLE NO.	404817	TEST FINISHED	6-5-95 WEB
SOIL DESCR.	Fernald		
TEST TYPE	ATTERBERG		

Plastic Limit Determination

	1	2	3
Dish	24	2030	15G
Wt Dish & Wet Soil	8.67	8.28	7.38
Wt Dish & Dry Soil	7.80	7.44	6.63
Wt of Moisture	0.87	0.84	0.75
Wt of Dish	1.04	1.05	1.04
Wt of Dry Soil	6.76	6.39	5.59
Moisture Content	12.87	13.15	13.42

Liquid Limit Determination — Device Number 0258

	1	2	3	4	5
Dish	2055	B72	B70	2010	4115
Number of Blows	41	27	20	14	6
Wt Dish & Wet Soil	19.56	21.51	21.28	26.51	19.62
Wt Dish & Dry Soil	16.03	17.45	17.19	21.09	15.33
Wt of Moisture	3.53	4.06	4.09	5.42	4.29
Wt of Dish	1.04	1.04	1.05	1.06	1.04
Wt of Dry Soil	14.99	16.41	16.14	20.03	14.29
Moisture Content	23.55	24.74	25.34	27.06	30.02
Calculated Moisture cont	23.309	24.741	25.770	26.993	29.898

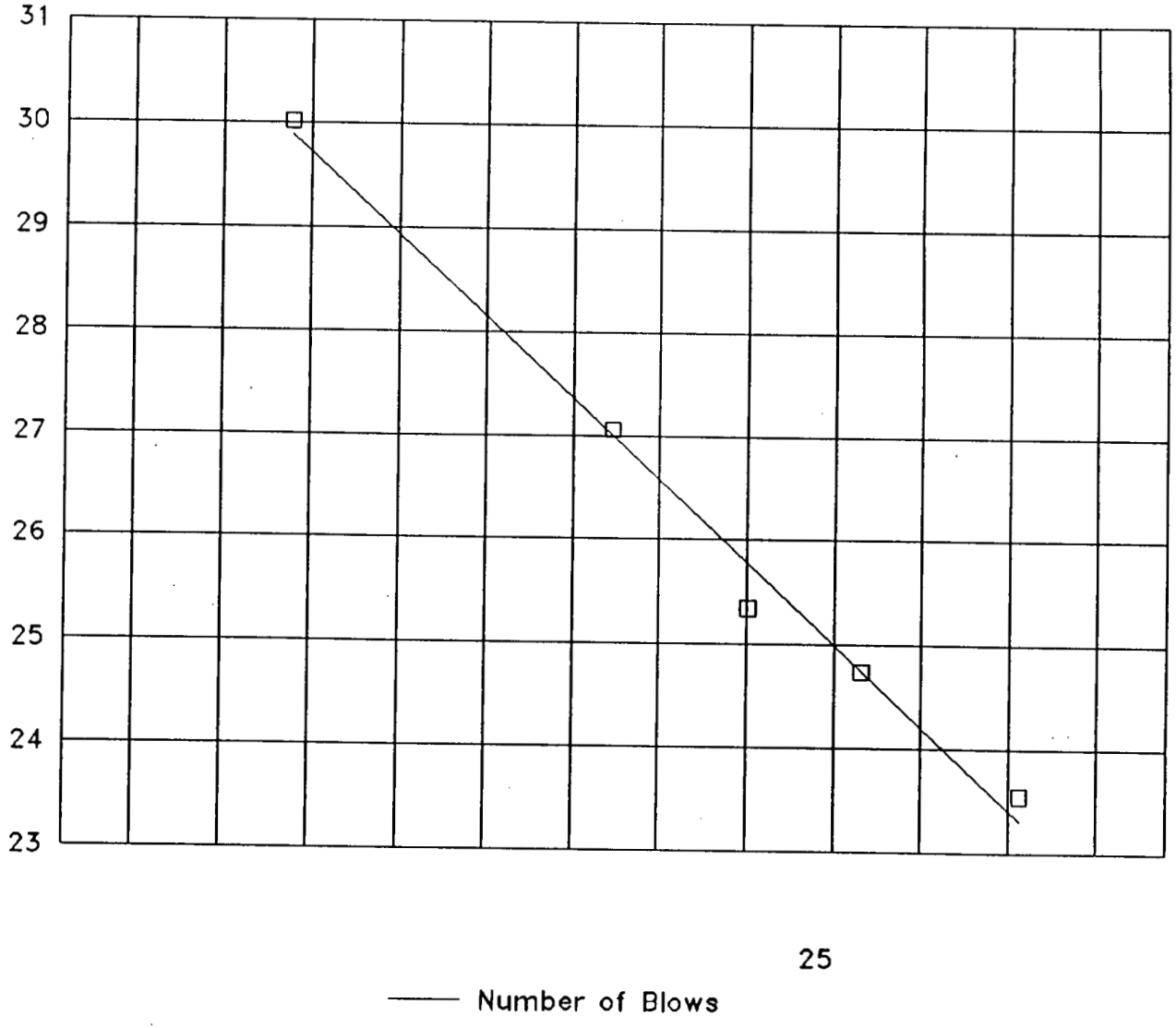
Liquid Limit	25.0
Plastic Limit	13.1
Plasticity Index	11.9

Atterberg Classification CL

Data entry by: NAA Date: 6-5-95
Checked by: [illegible] Date: 6-5-95
FileName: SAG0817 ADVANCED TERRA TESTING, INC.

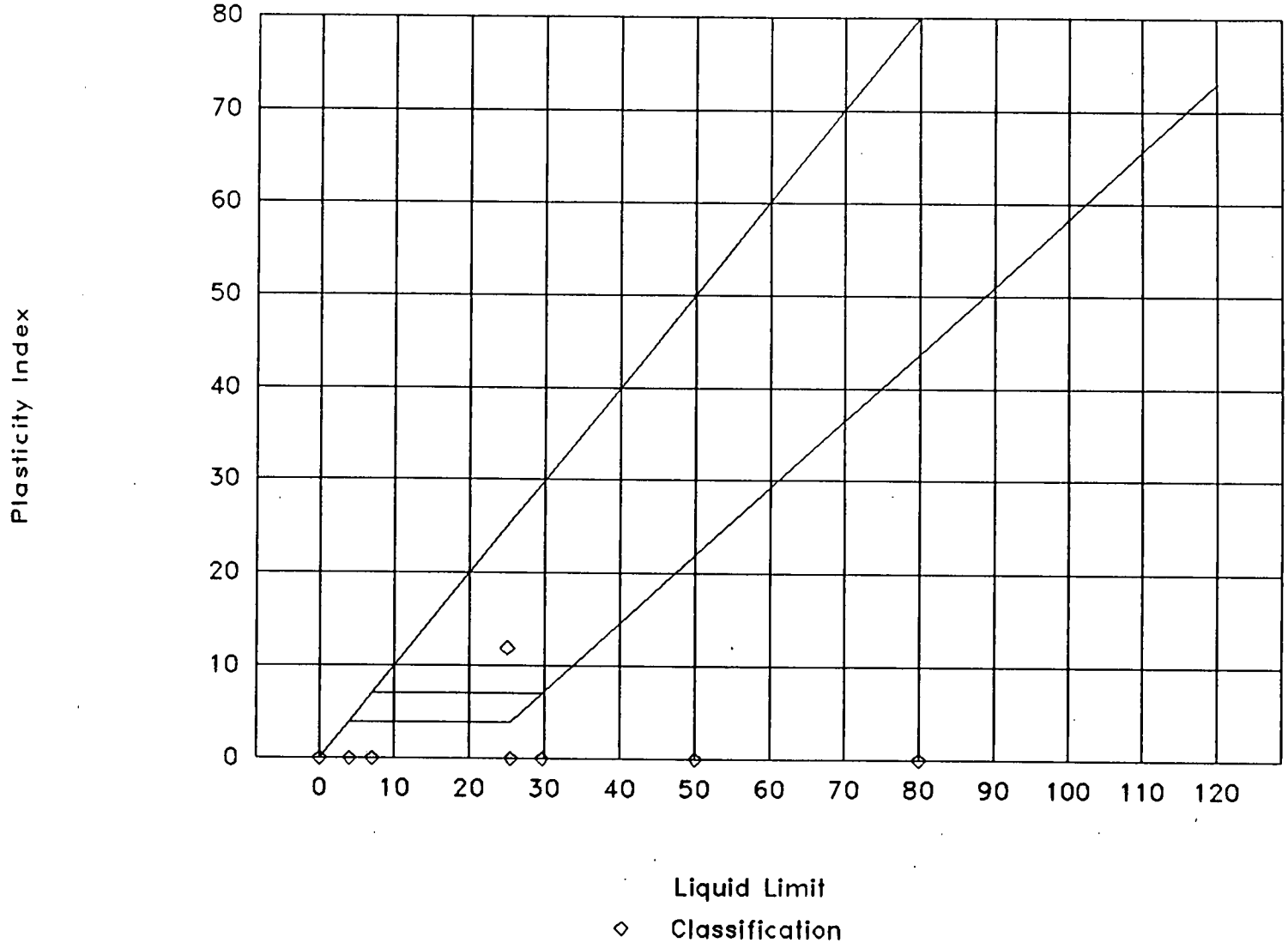
Atterberg Limits, Flow Curve

G2-121, 17.5-19.5', 404817



PLASTICITY CHART

G2-121, 17.5-19.5', 404817



ATTERBERG LIMITS TEST
ASTM D 4318

CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13G
BORING NO.	G2-122	SAMPLED	
DEPTH	5.0-7.0'	TEST STARTED	5-30-95 REW
SAMPLE NO.	404821	TEST FINISHED	5-30-95 REW
SOIL DESCR.	Fernald		
TEST TYPE	ATTERBERG		

Plastic Limit
Determination

	1	2	3
Dish	B18	58C	27C
Wt Dish & Wet Soil	9.86	12.92	11.06
Wt Dish & Dry Soil	8.58	11.17	9.58
Wt of Moisture	1.28	1.75	1.48
Wt of Dish	1.04	1.06	1.04
Wt of Dry Soil	7.54	10.11	8.54
Moisture Content	16.98	17.31	17.33

Liquid Limit Device Number 0255
Determination

	1	2	3	4	5
Dish	3	4104	B38	B39	2003
Number of Blows	50	37	22	14	9
Wt Dish & Wet Soil	14.03	16.15	20.12	19.19	20.03
Wt Dish & Dry Soil	11.18	12.72	15.62	14.71	15.14
Wt of Moisture	2.85	3.43	4.50	4.48	4.89
Wt of Dish	1.05	1.04	1.04	1.04	1.04
Wt of Dry Soil	10.13	11.68	14.58	13.67	14.10
Moisture Content	28.13	29.37	30.86	32.77	34.68
Calculated Moisture cont	28.086	29.213	31.160	32.852	34.507

Liquid Limit	30.7
Plastic Limit	17.2
Plasticity Index	13.5

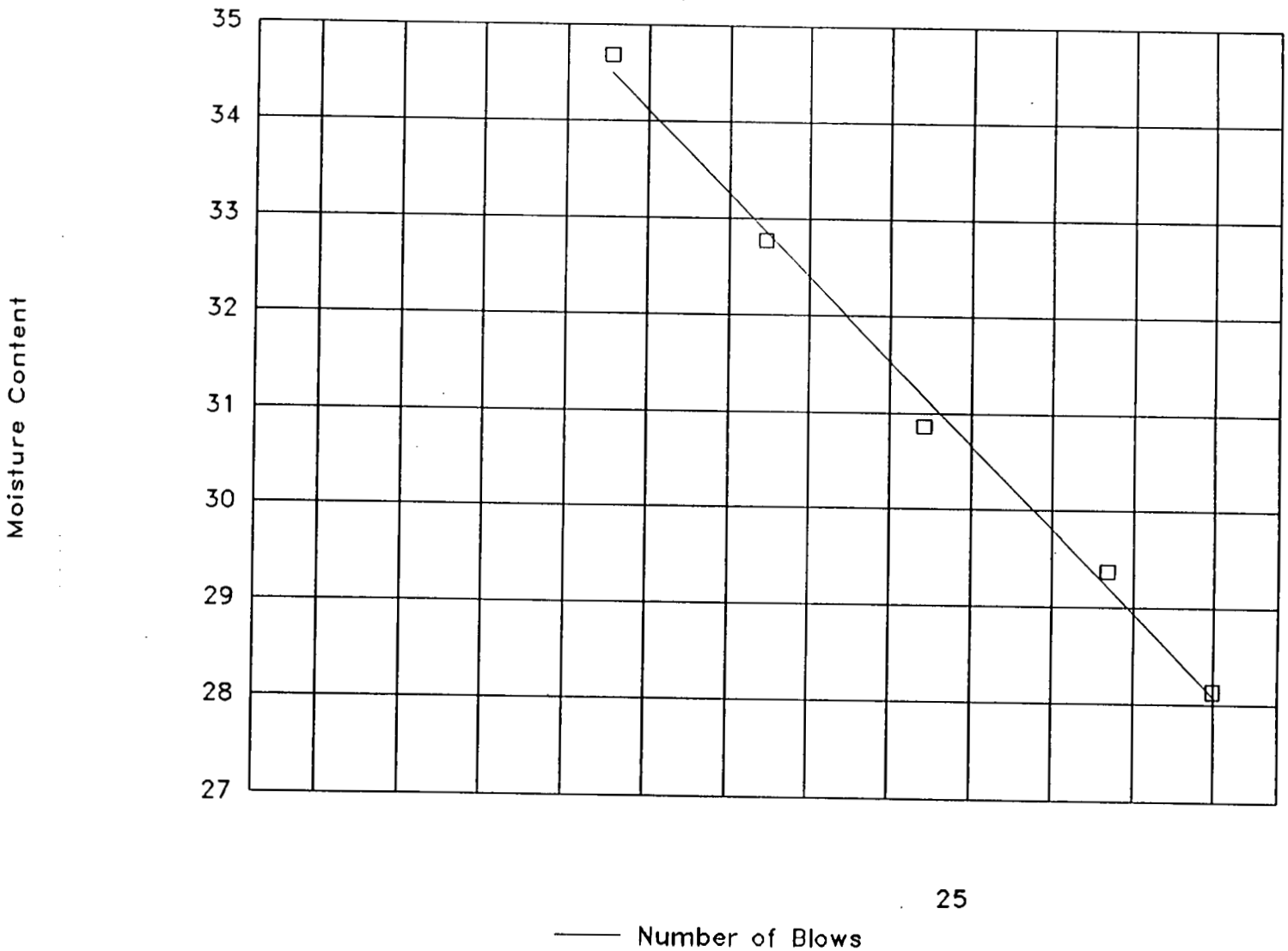
Atterberg Classification CL

Data entry by: NAA Date: 6-1-95
Checked by: [signature] Date: 6-5-95
FileName: SAG0821

ADVANCED TERRA TESTING, INC.

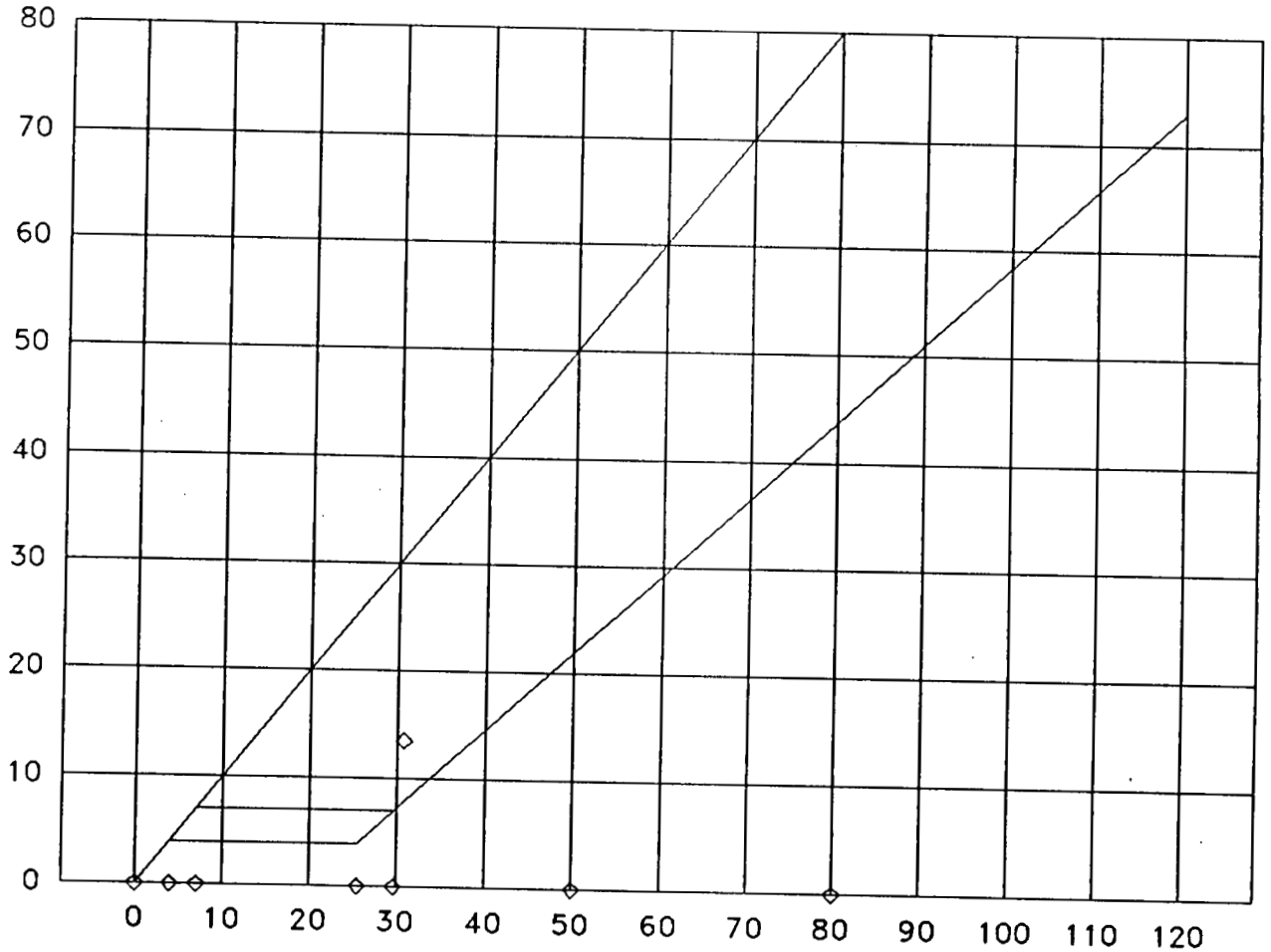
Atterberg Limits, Flow Curve

G2-122, 5.0-7.0', 404821



PLASTICITY CHART

G2-122, 5.0-7.0', 404821



◇ Classification

ATTERBERG LIMITS TEST
ASTM D 4318

474

CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13G
BORING NO.	G2-122	SAMPLED	5-1-95 JM
DEPTH	10.0-12.0'	TEST STARTED	6-2-95 WEB
SAMPLE NO.	404824	TEST FINISHED	6-5-95 WEB
SOIL DESCR.	Fernald		
TEST TYPE	ATTERBERG		

Plastic Limit
Determination

	1	2	3
Dish	B14	2004	40C
Wt Dish & Wet Soil	7.66	7.27	9.81
Wt Dish & Dry Soil	6.80	6.47	8.67
Wt of Moisture	0.86	0.80	1.14
Wt of Dish	1.04	1.05	1.06
Wt of Dry Soil	5.76	5.42	7.61
Moisture Content	14.93	14.76	14.98

Liquid Limit Device Number 0258
Determination

	1	2	3	4	5
Dish	4114	2011	2065	B22	2013
Number of Blows	41	25	20	12	6
Wt Dish & Wet Soil	21.45	19.25	14.64	19.49	19.44
Wt Dish & Dry Soil	17.15	15.24	11.54	15.05	14.70
Wt of Moisture	4.30	4.01	3.10	4.44	4.74
Wt of Dish	1.05	1.05	1.05	1.05	1.05
Wt of Dry Soil	16.10	14.19	10.49	14.00	13.65
Moisture Content	26.71	28.26	29.55	31.71	34.73
Calculated Moisture cont	26.481	28.585	29.534	31.706	34.654

Liquid Limit	28.6
Plastic Limit	14.9
Plasticity Index	13.7

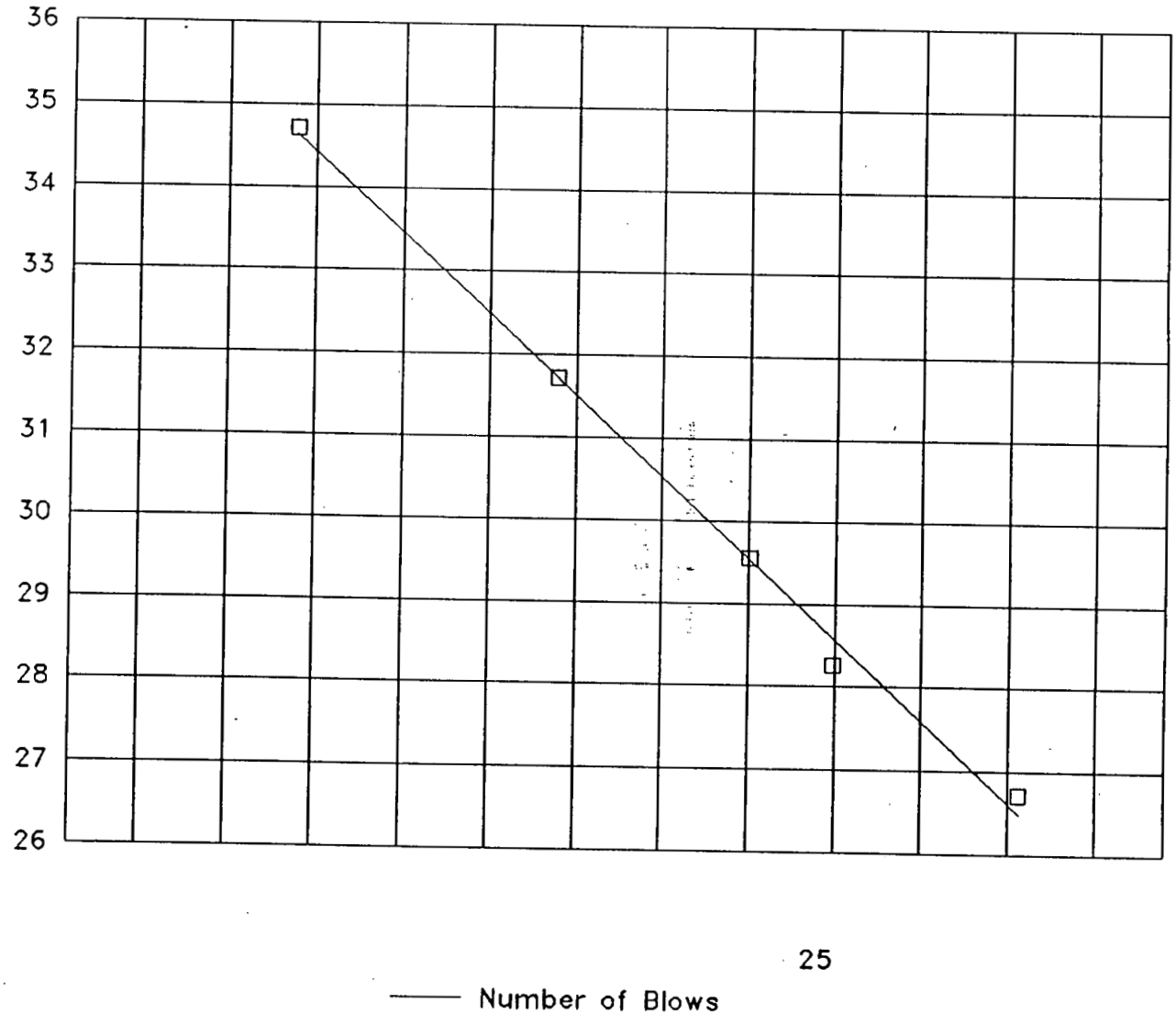
Atterberg Classification CL

Data entry by: NAA Date: 6-5-95
Checked by: [signature] Date: 6-5-95
FileName: SAG0824

ADVANCED TERRA TESTING, INC.

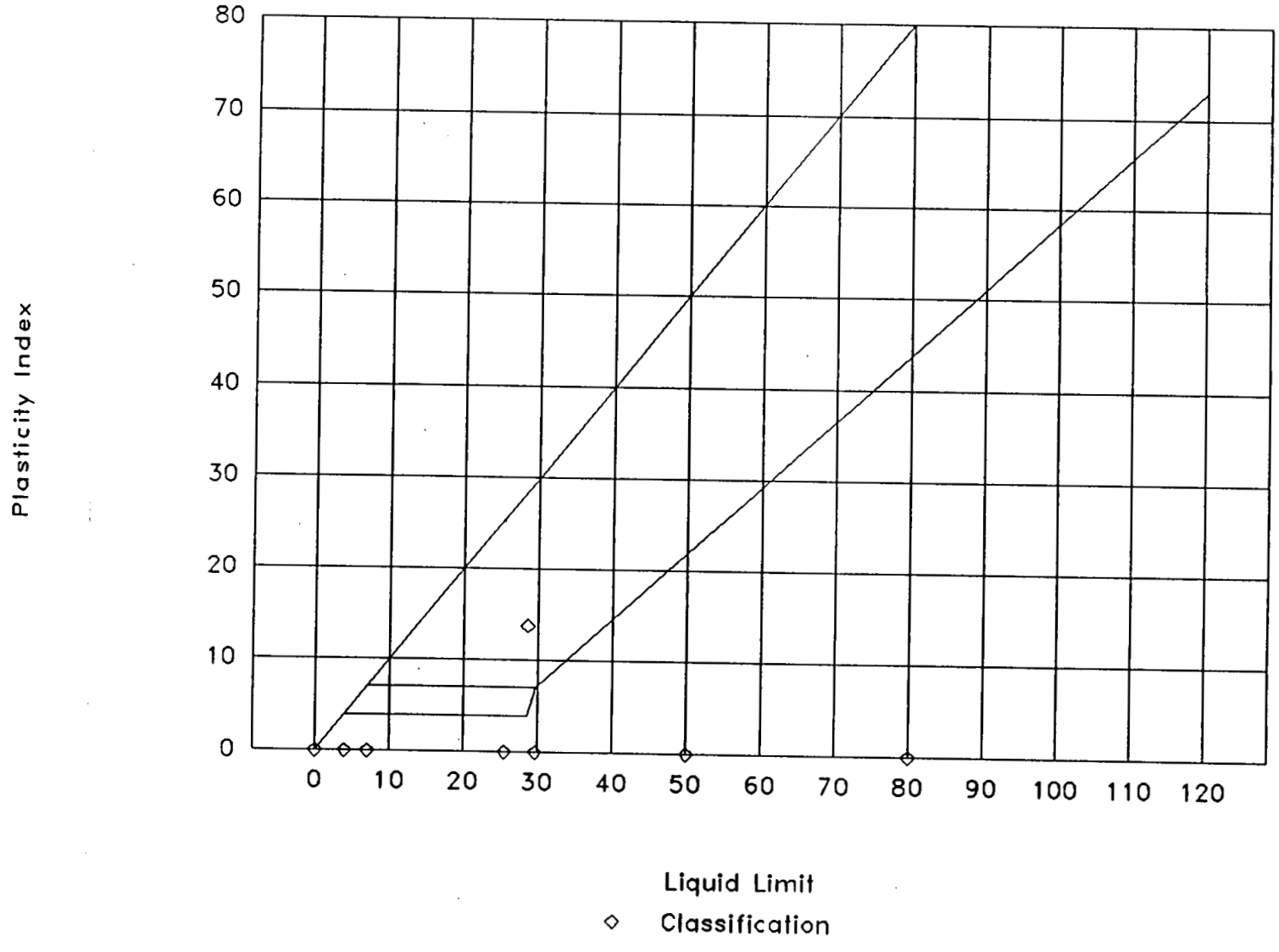
Atterberg Limits, Flow Curve

G2-122, 10.0-12.0', 404824



PLASTICITY CHART

G2-122, 10.0-12.0', 404824



ATTERBERG LIMITS TEST
ASTM D 4318

CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13G
BORING NO.	G2-122	SAMPLED	5-1-95 JU
DEPTH	15.0-17.0'	TEST STARTED	5-26-95 REW
SAMPLE NO.	404827	TEST FINISHED	5-26-95 REW
SOIL DESCR.	Fernald		
TEST TYPE	ATTERBERG		

Plastic Limit
Determination

	1	2	3
Dish	B52	B61	B9
Wt Dish & Wet Soil	8.22	9.90	10.81
Wt Dish & Dry Soil	7.37	8.81	9.58
Wt of Moisture	0.85	1.09	1.23
Wt of Dish	1.05	1.05	1.03
Wt of Dry Soil	6.32	7.76	8.55
Moisture Content	13.45	14.05	14.39

Liquid Limit Device Number 0255
Determination

	1	2	3	4	5
Dish	20CB	2007	B27	2014	B35
Number of Blows	30	22	14	11	6
Wt Dish & Wet Soil	19.12	17.87	18.75	22.33	20.53
Wt Dish & Dry Soil	15.38	14.32	14.90	17.60	15.82
Wt of Moisture	3.74	3.55	3.85	4.73	4.71
Wt of Dish	1.03	1.05	1.04	1.07	1.04
Wt of Dry Soil	14.35	13.27	13.86	16.53	14.78
Moisture Content	26.06	26.75	27.78	28.61	31.87
Calculated Moisture cont	25.617	26.710	28.304	29.154	31.290

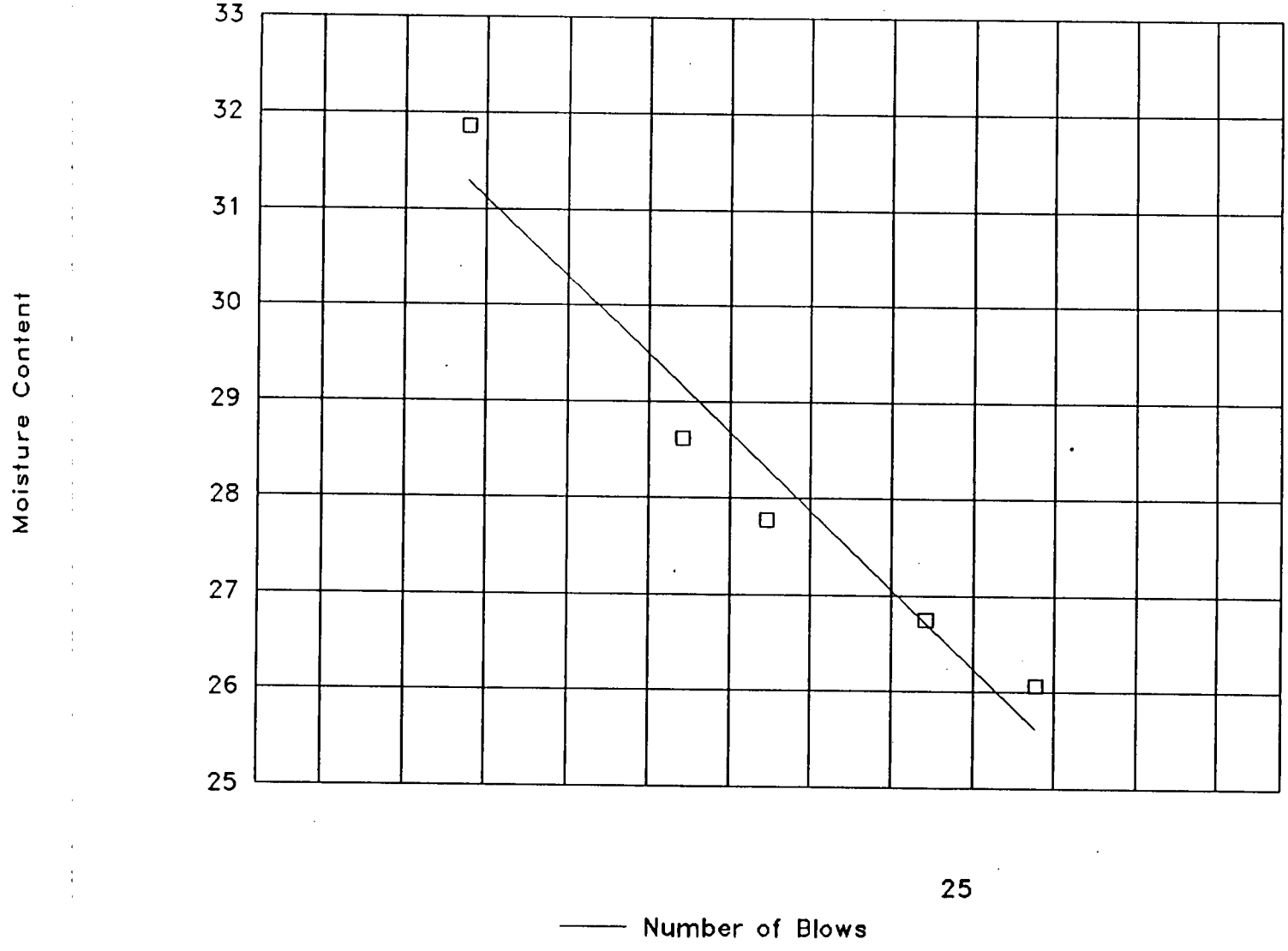
Liquid Limit	26.3
Plastic Limit	14.0
Plasticity Index	12.3

Atterberg Classification CL

Data entry by: NAA Date: 5-30-95
Checked by: SR Date: 5-30-95
FileName: SAG0827 ADVANCED TERRA TESTING, INC.

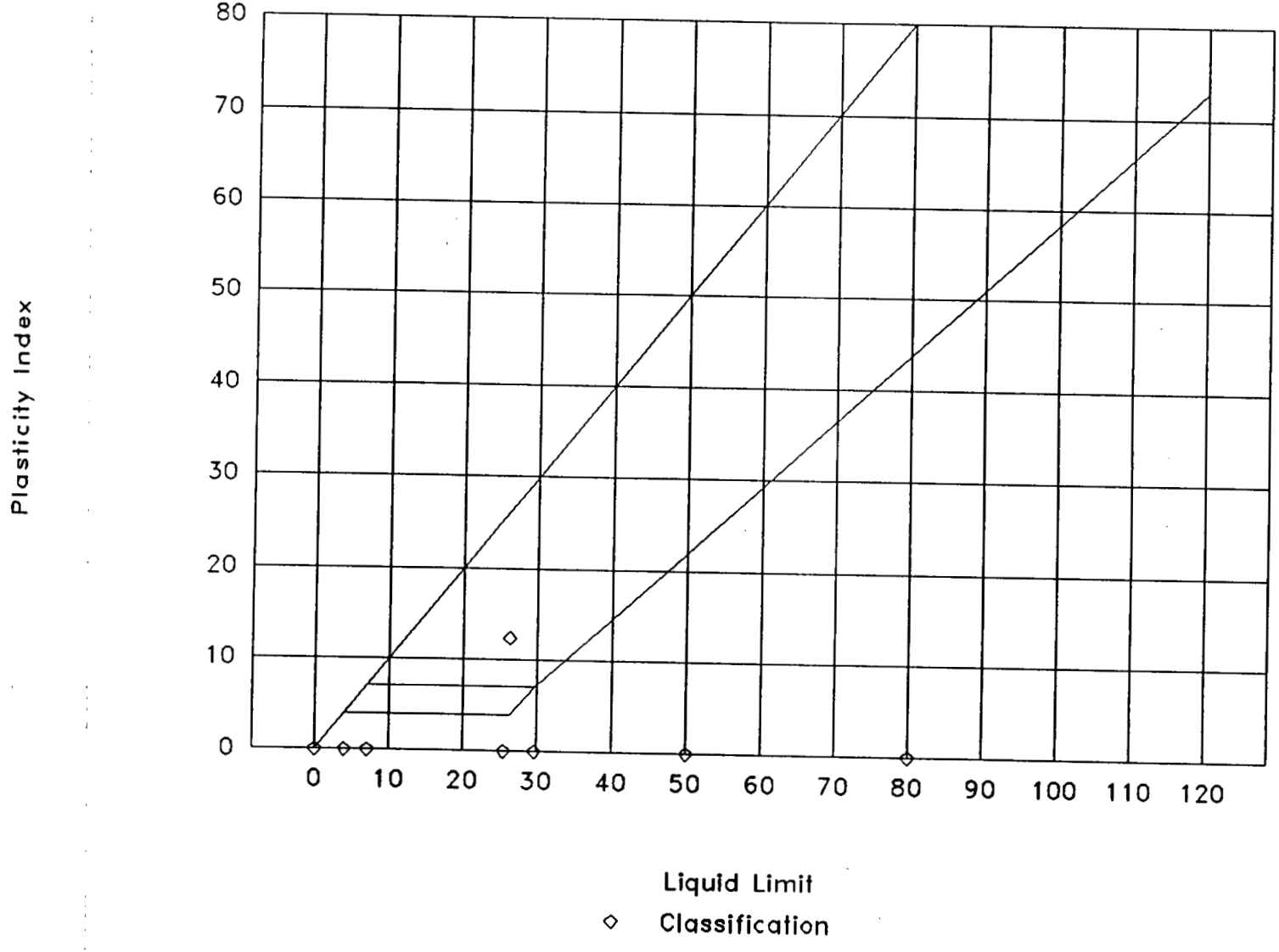
Atterberg Limits, Flow Curve

G2-122, 15.0-17.0', 404827



PLASTICITY CHART

G2-122, 15.0-17.0', 404827



ATTERBERG LIMITS TEST
ASTM D 4318

CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13D
BORING NO.	G2-123	SAMPLED	4-26-95
DEPTH	7.5-9.5'	TEST STARTED	6-7-95 WEB
SAMPLE NO.	404797	TEST FINISHED	6-9-95 WEB
SOIL DESCR.	Fernald		
TEST TYPE	ATTERBERG		

Plastic Limit
Determination

	1	2	3
Dish	2066	4113	4107
Wt Dish & Wet Soil	7.38	7.80	8.60
Wt Dish & Dry Soil	6.57	6.89	7.59
Wt of Moisture	0.81	0.91	1.01
Wt of Dish	1.05	1.05	1.04
Wt of Dry Soil	5.52	5.84	6.55
Moisture Content	14.67	15.58	15.42

Liquid Limit Device Number 0258
Determination

	1	2	3	4	5
Dish	2067	7C	20C	2035	35CC
Number of Blows	21	49	28	17	9
Wt Dish & Wet Soil	20.11	18.65	21.89	18.70	25.06
Wt Dish & Dry Soil	16.07	15.18	17.59	14.87	19.39
Wt of Moisture	4.04	3.47	4.30	3.83	5.67
Wt of Dish	1.03	1.05	1.05	1.05	1.06
Wt of Dry Soil	15.04	14.13	16.54	13.82	18.33
Moisture Content	26.86	24.56	26.00	27.71	30.93

Liquid Limit	26.6
Plastic Limit	15.2
Plasticity Index	11.4

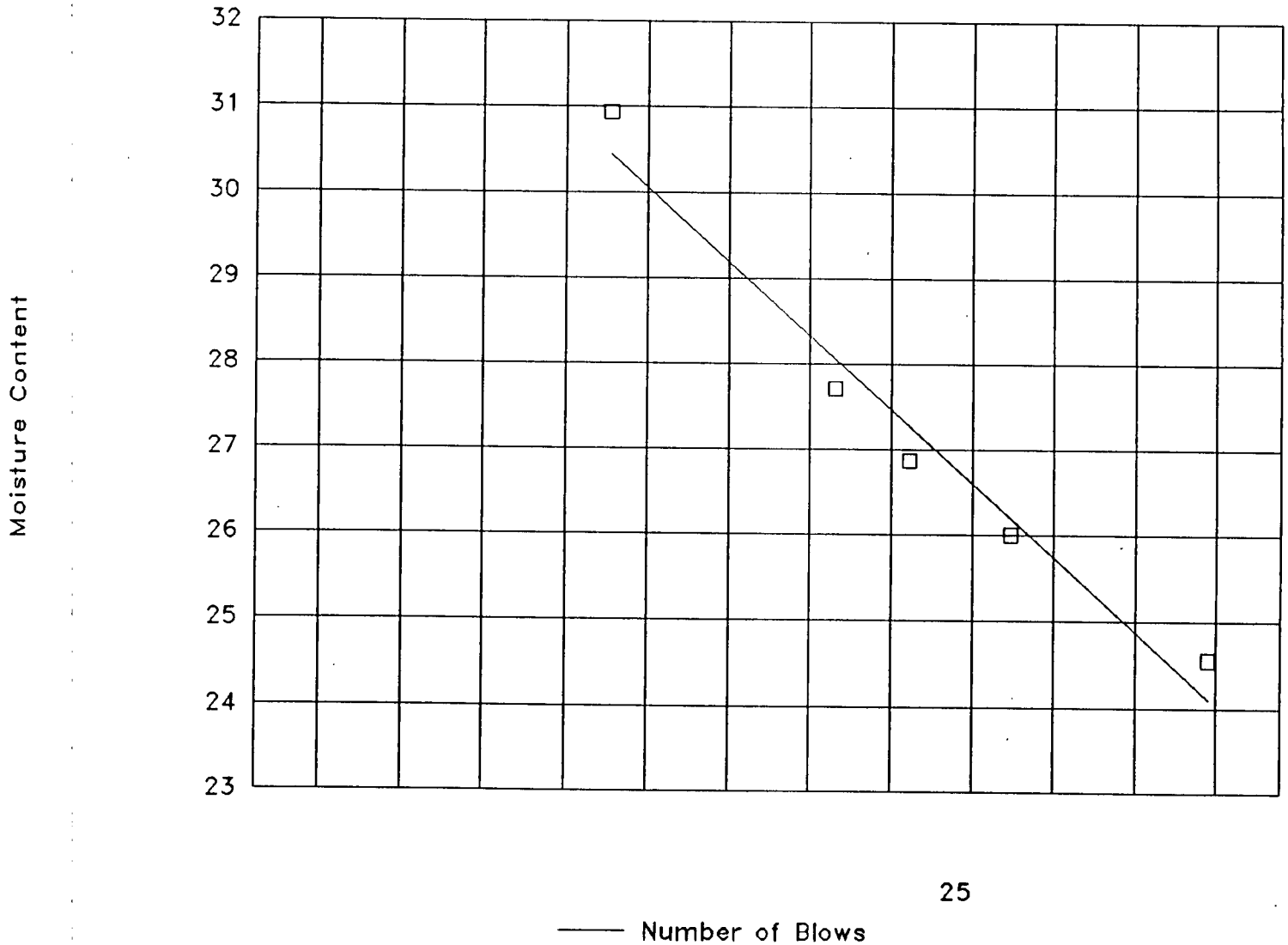
Atterberg Classification CL

Data entry by: NAA Date: 6-9-95
Checked by: [illegible] Date: 6-9-95
FileName: SAG0797

ADVANCED TERRA TESTING, INC.

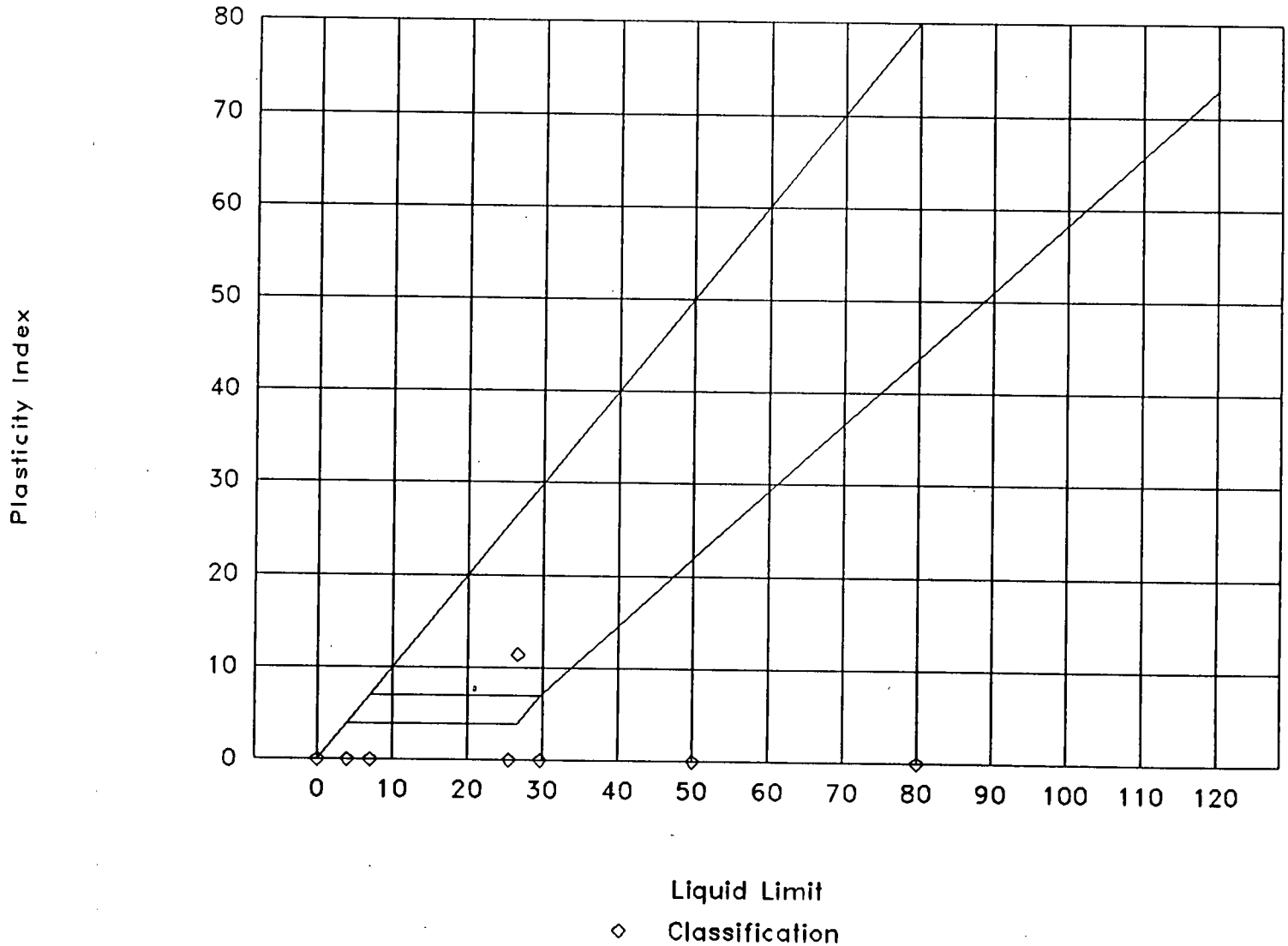
Atterberg Limits, Flow Curve

G2-123, 7.5-9.5', 404797



PLASTICITY CHART

G2-123, 7.5-9.5', 404797



ATTERBERG LIMITS TEST
ASTM D 4318

CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13D
BORING NO.	G2-123	SAMPLED	4-26-95
DEPTH	12.5-14.5	TEST STARTED	6-5-95 RW
SAMPLE NO.	404800	TEST FINISHED	6-6-95 RW
SOIL DESCR.	Fernald		
TEST TYPE	ATTERBERG		

Plastic Limit
Determination

	1	2	3
Dish	8C	4002	B25
Wt Dish & Wet Soil	9.87	7.66	8.21
Wt Dish & Dry Soil	8.75	6.82	7.32
Wt of Moisture	1.12	0.84	0.89
Wt of Dish	1.04	1.06	1.05
Wt of Dry Soil	7.71	5.76	6.27
Moisture Content	14.53	14.58	14.19

Liquid Limit Device Number 0258
Determination

	1	2	3	4	5
Dish	42C	17C	B7	4105	B74
Number of Blows	27	20	12	12	8
Wt Dish & Wet Soil	23.20	19.90	20.88	21.23	24.06
Wt Dish & Dry Soil	18.39	15.66	16.29	16.41	18.33
Wt of Moisture	4.81	4.24	4.59	4.82	5.73
Wt of Dish	1.06	1.05	1.05	1.04	1.06
Wt of Dry Soil	17.33	14.61	15.24	15.37	17.27
Moisture Content	27.76	29.02	30.12	31.36	33.18
Calculated Moisture cont	27.631	28.901	31.062	31.062	32.778

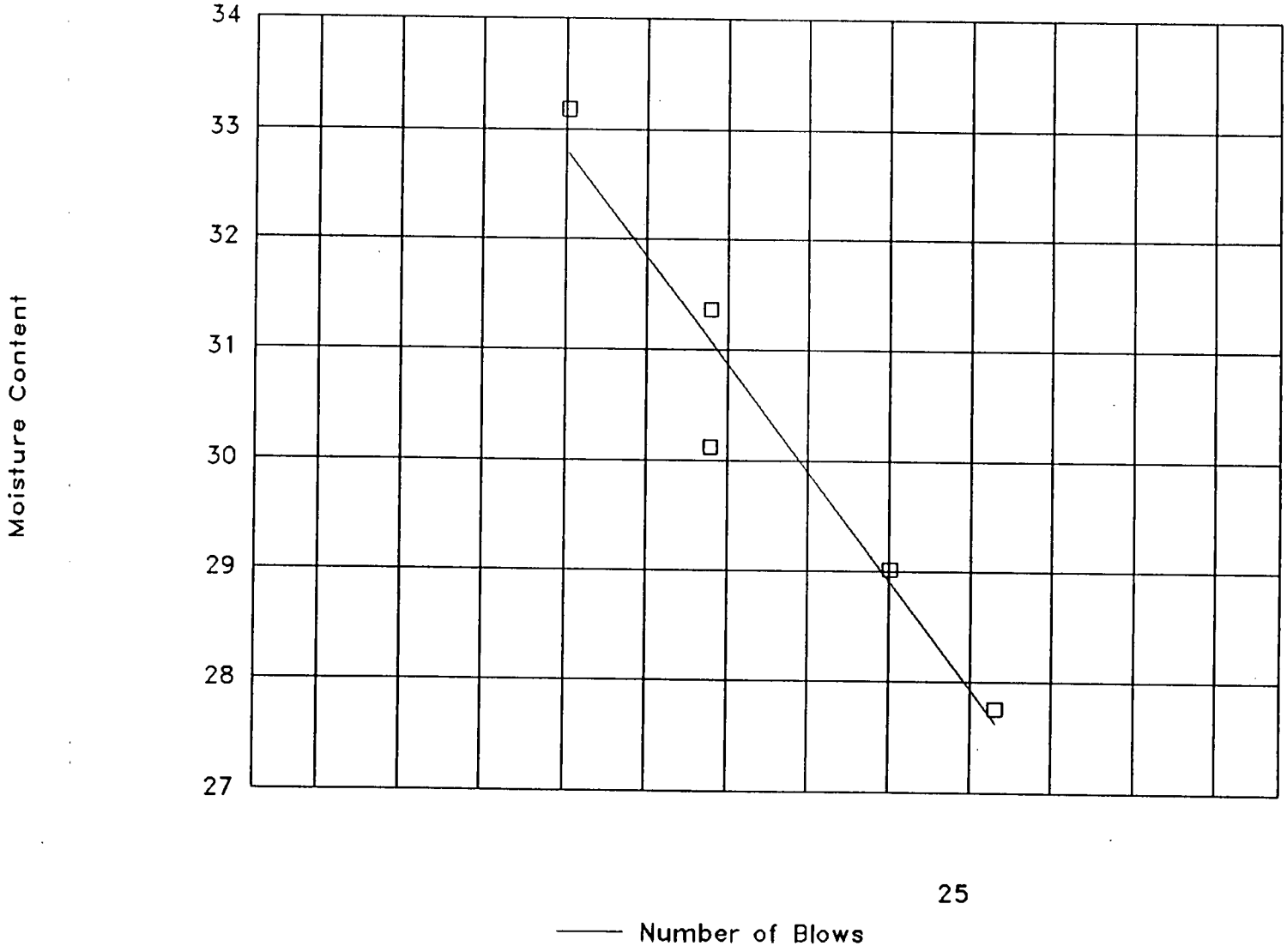
Liquid Limit	28.0
Plastic Limit	14.4
Plasticity Index	13.5

Atterberg Classification CL

Data entry by: NAA Date: 6-6-95
Checked by: DSR Date: 6-7-95
FileName: SAG0800 ADVANCED TERRA TESTING, INC.

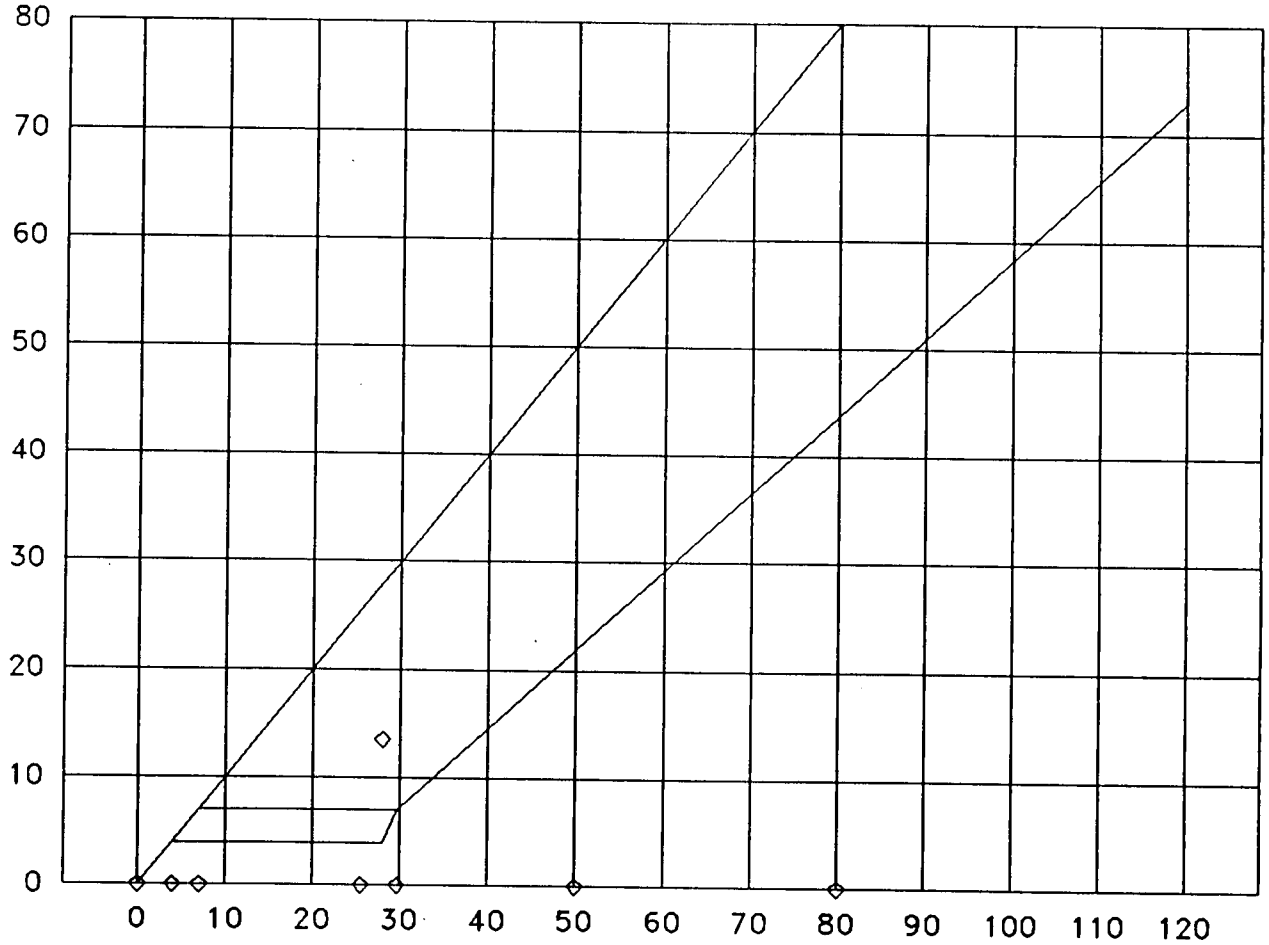
Atterberg Limits, Flow Curve

G2-123, 12.5-14.5, 404800



PLASTICITY CHART

G2-123, 12.5-14.5, 404800



◇ Classification

ATTERBERG LIMITS TEST
ASTM D 4318

474

CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13D

BORING NO.	G2-123	SAMPLED	4-26-95 MG
DEPTH	20.0-21.2'	TEST STARTED	6-1-95 REW
SAMPLE NO.	404804	TEST FINISHED	6-2-95 REW
SOIL DESCR.	Fernald		
TEST TYPE	ATTERBERG		

Plastic Limit
Determination

	1	2	3
Dish	2069	2014	1368
Wt Dish & Wet Soil	5.63	6.46	6.60
Wt Dish & Dry Soil	5.11	5.84	5.95
Wt of Moisture	0.52	0.62	0.65
Wt of Dish	1.04	1.07	1.04
Wt of Dry Soil	4.07	4.77	4.91
Moisture Content	12.78	13.00	13.24

Liquid Limit Device Number 0255
Determination

	1	2	3	4	5
Dish	B27	B17	B9	B44	B52
Number of Blows	41	33	24	17	11
Wt Dish & Wet Soil	21.53	18.52	21.13	21.03	20.18
Wt Dish & Dry Soil	17.44	14.93	16.88	16.66	15.81
Wt of Moisture	4.09	3.59	4.25	4.37	4.37
Wt of Dish	1.04	1.06	1.03	1.05	1.05
Wt of Dry Soil	16.40	13.87	15.85	15.61	14.76
Moisture Content	24.94	25.88	26.81	27.99	29.61
Calculated Moisture cont	25.000	25.754	26.859	28.057	29.568

Liquid Limit	26.7
Plastic Limit	13.0
Plasticity Index	13.7

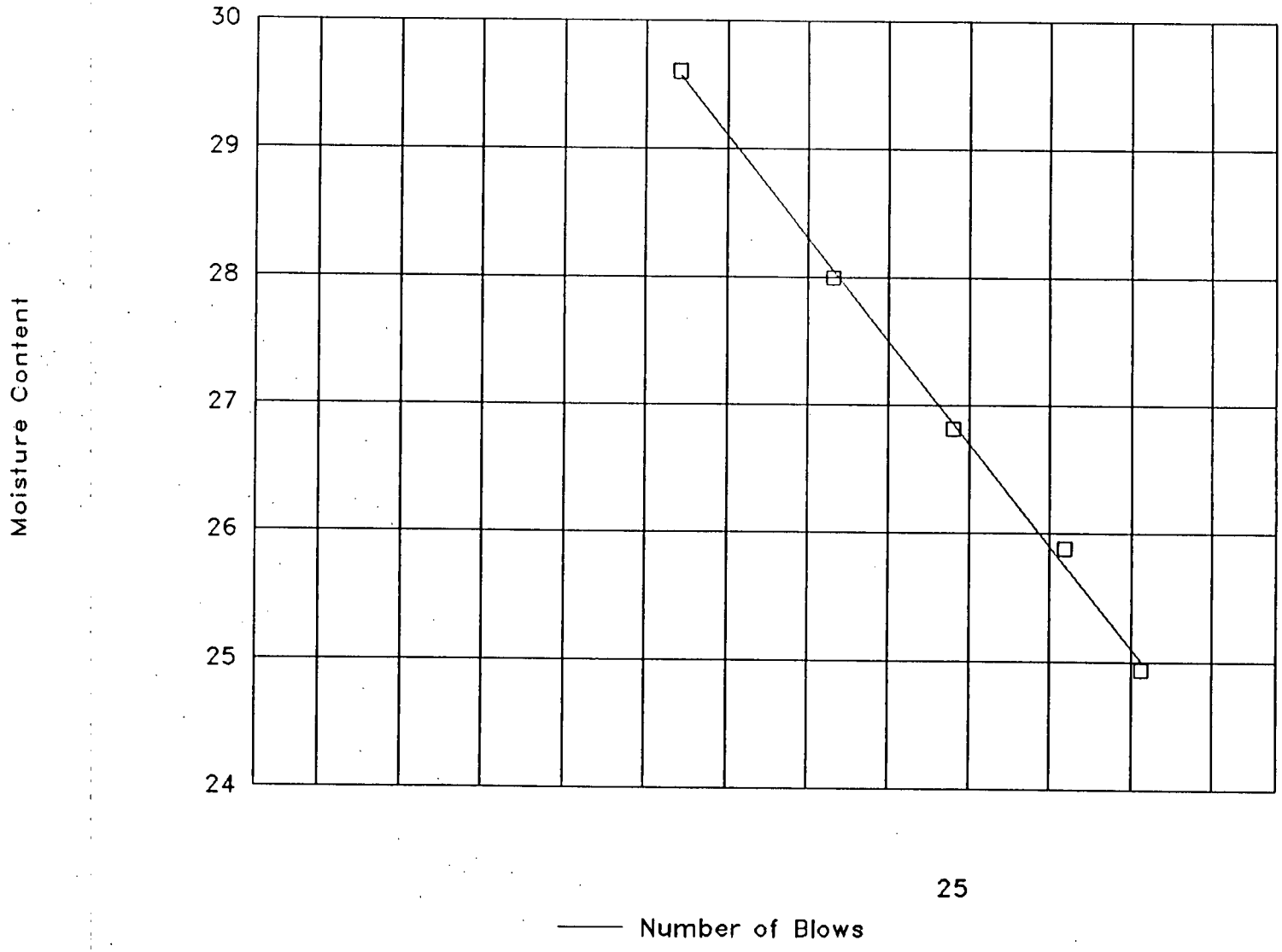
Atterberg Classification CL

Data entry by: NAA Date: 6-2-95
Checked by: DSR Date: 6-5-95
FileName: SAG0804

ADVANCED TERRA TESTING, INC.

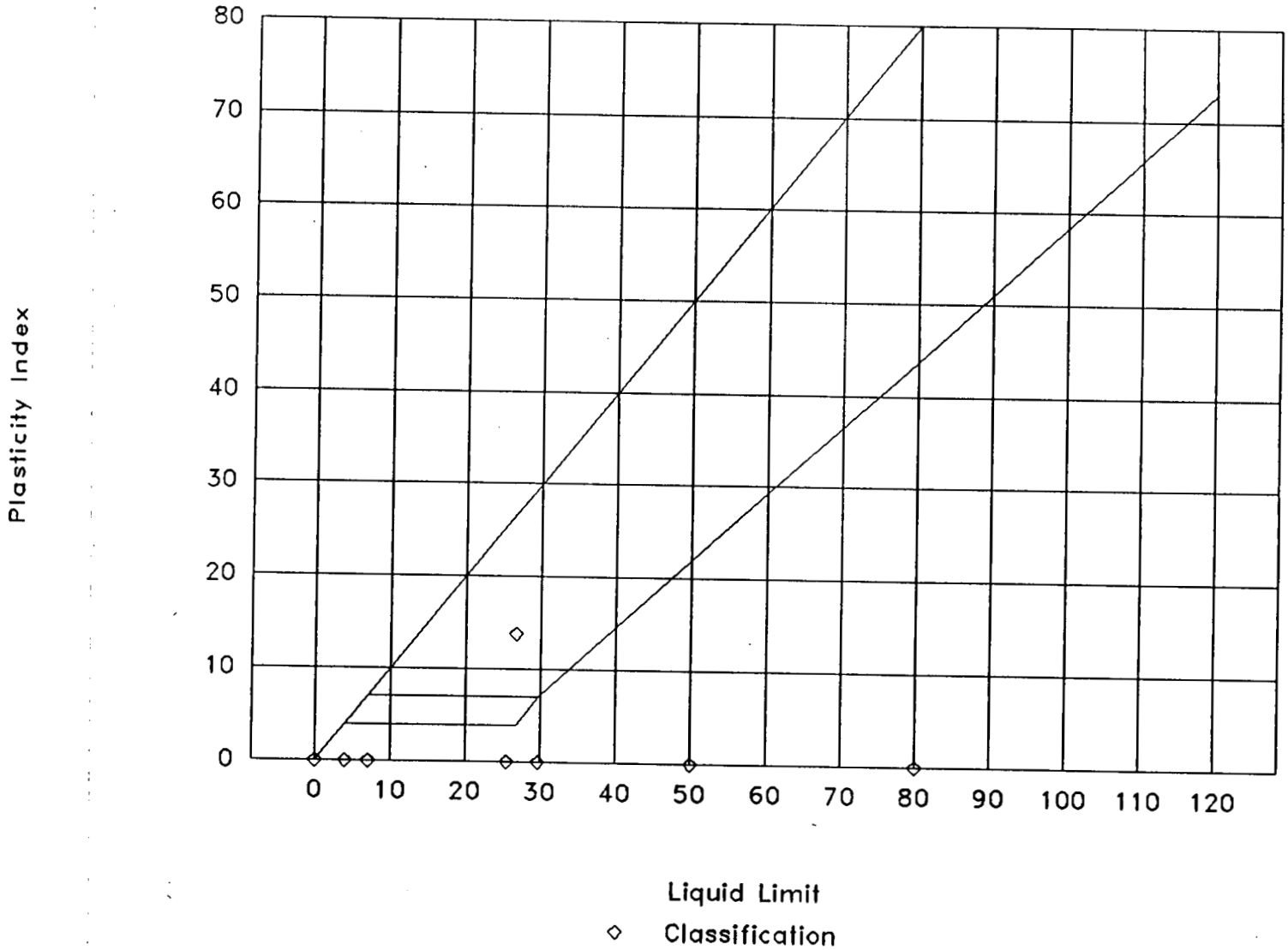
Atterberg Limits, Flow Curve

G2-123, 20.0-21.2', 404804



PLASTICITY CHART

G2-123, 20.0-21.2', 404804



ATTERBERG LIMITS TEST
ASTM D 4318

CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13A
BORING NO.	G2-124	SAMPLED	4-12-95 FP, MM
DEPTH	5.0-7.0'	TEST STARTED	6-6-95 WEB
SAMPLE NO.	405002	TEST FINISHED	6-7-95 WEB
SOIL DESCR.	Fernald		
TEST TYPE	ATTERBERG		

Plastic Limit
Determination

	1	2	3
Dish	B17	B27	B44
Wt Dish & Wet Soil	7.17	8.60	8.72
Wt Dish & Dry Soil	6.19	7.40	7.52
Wt of Moisture	0.98	1.20	1.20
Wt of Dish	1.08	1.05	1.06
Wt of Dry Soil	5.11	6.35	6.46
Moisture Content	19.18	18.90	18.58

Liquid Limit Device Number 0258
Determination

	1	2	3	4	5
Dish	B9	B68	B52	2069	2014
Number of Blows	40	31	28	17	13
Wt Dish & Wet Soil	15.65	17.64	17.30	17.01	20.78
Wt Dish & Dry Soil	10.57	11.78	11.49	11.12	13.33
Wt of Moisture	5.08	5.86	5.81	5.89	7.45
Wt of Dish	1.05	1.05	1.06	1.04	1.07
Wt of Dry Soil	9.52	10.73	10.43	10.08	12.26
Moisture Content	53.36	54.61	55.70	58.43	60.77

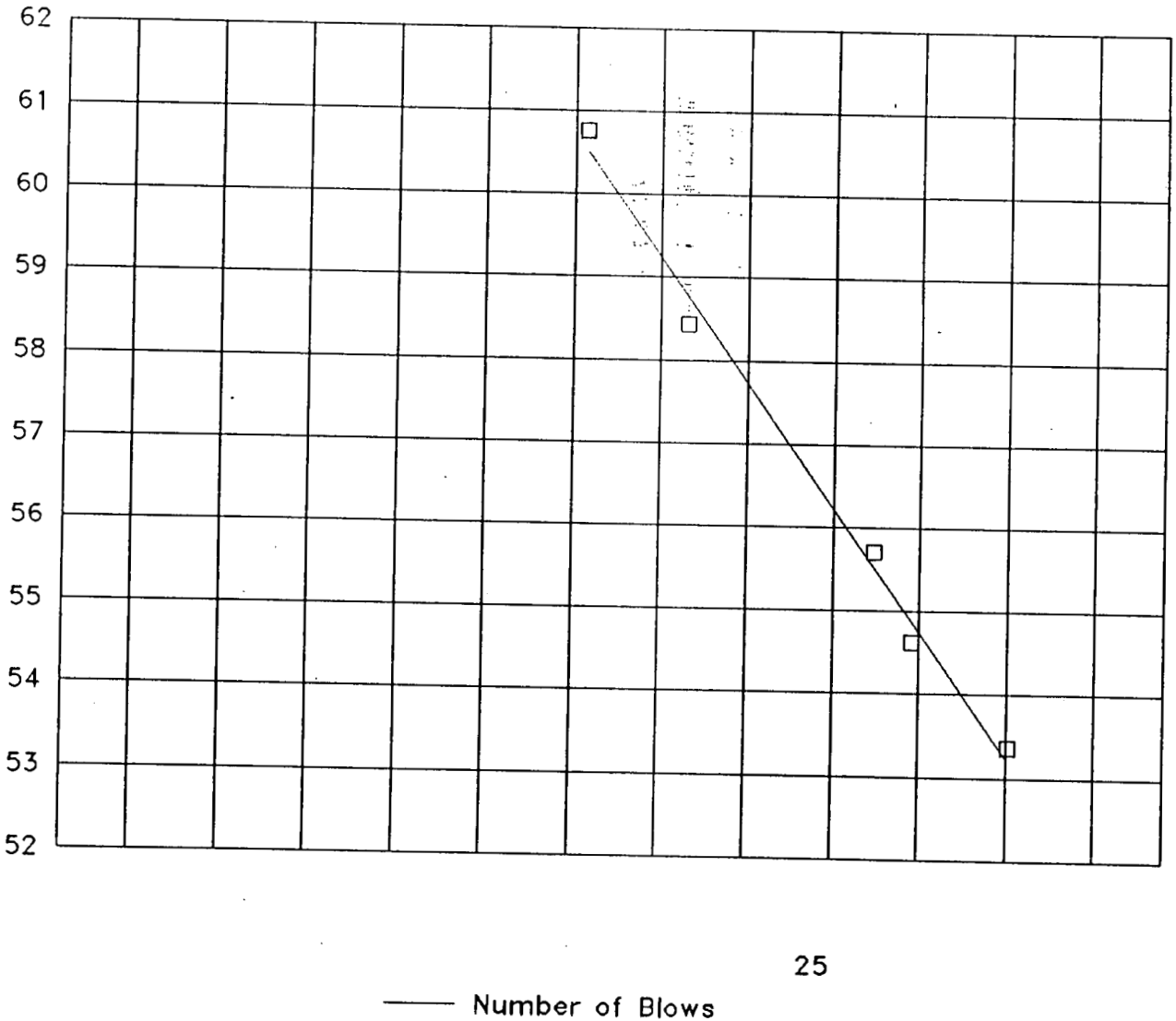
Liquid Limit	56.3
Plastic Limit	18.9
Plasticity Index	37.4

Atterberg Classification CH

Data entry by: NAA Date: 6-7-95
Checked by: Date: 6-9-95
FileName: SAG05002 ADVANCED TERRA TESTING, INC.

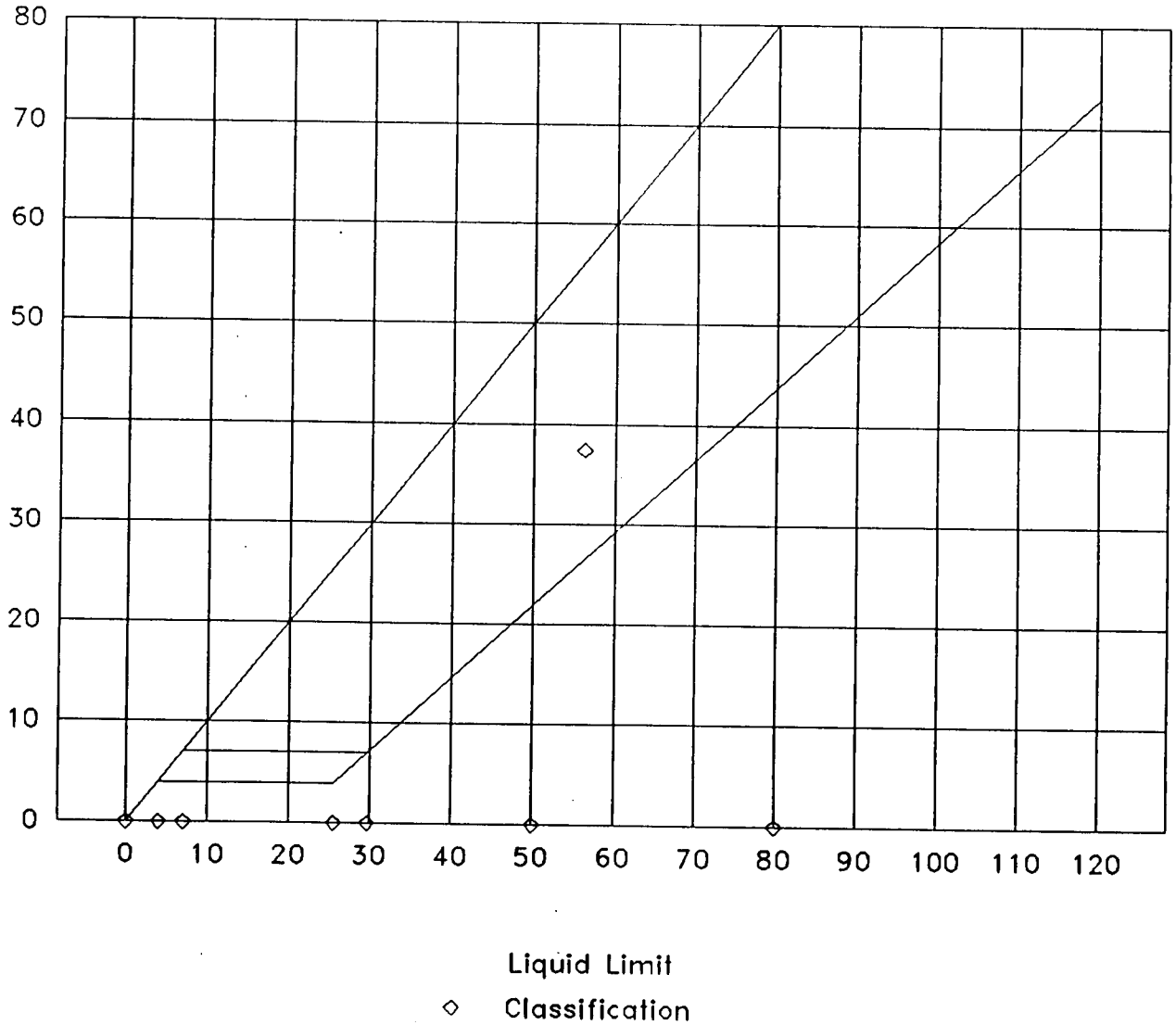
Atterberg Limits, Flow Curve

G2-124, 5.0-7.0', 405002



PLASTICITY CHART

G2-124, 5.0-7.0', 405002



ATTERBERG LIMITS TEST
ASTM D 4318

CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13A

BORING NO.	G2-124	SAMPLED	4-12-95 FP, MM
DEPTH	10.0-12.0'	TEST STARTED	6-6-95 WEB
SAMPLE NO.	405004	TEST FINISHED	6-7-95 WEB
SOIL DESCR.	Fernald		
TEST TYPE	ATTERBERG		

Plastic Limit
Determination

	1	2	3
Dish	3	4104	B18
Wt Dish & Wet Soil	9.36	6.55	8.14
Wt Dish & Dry Soil	8.02	5.68	7.04
Wt of Moisture	1.34	0.87	1.10
Wt of Dish	1.05	1.05	1.04
Wt of Dry Soil	6.97	4.63	6.00
Moisture Content	19.23	18.79	18.33

Liquid Limit Device Number 0258
Determination

	1	2	3	4	5
Dish	4115	2055	2010	15G	B70
Number of Blows	40	25	19	12	35
Wt Dish & Wet Soil	18.73	18.25	18.06	20.40	17.49
Wt Dish & Dry Soil	13.77	13.22	12.97	14.32	12.78
Wt of Moisture	4.96	5.03	5.09	6.08	4.71
Wt of Dish	1.05	1.05	1.06	1.05	1.05
Wt of Dry Soil	12.72	12.17	11.91	13.27	11.73
Moisture Content	38.99	41.33	42.74	45.82	40.15

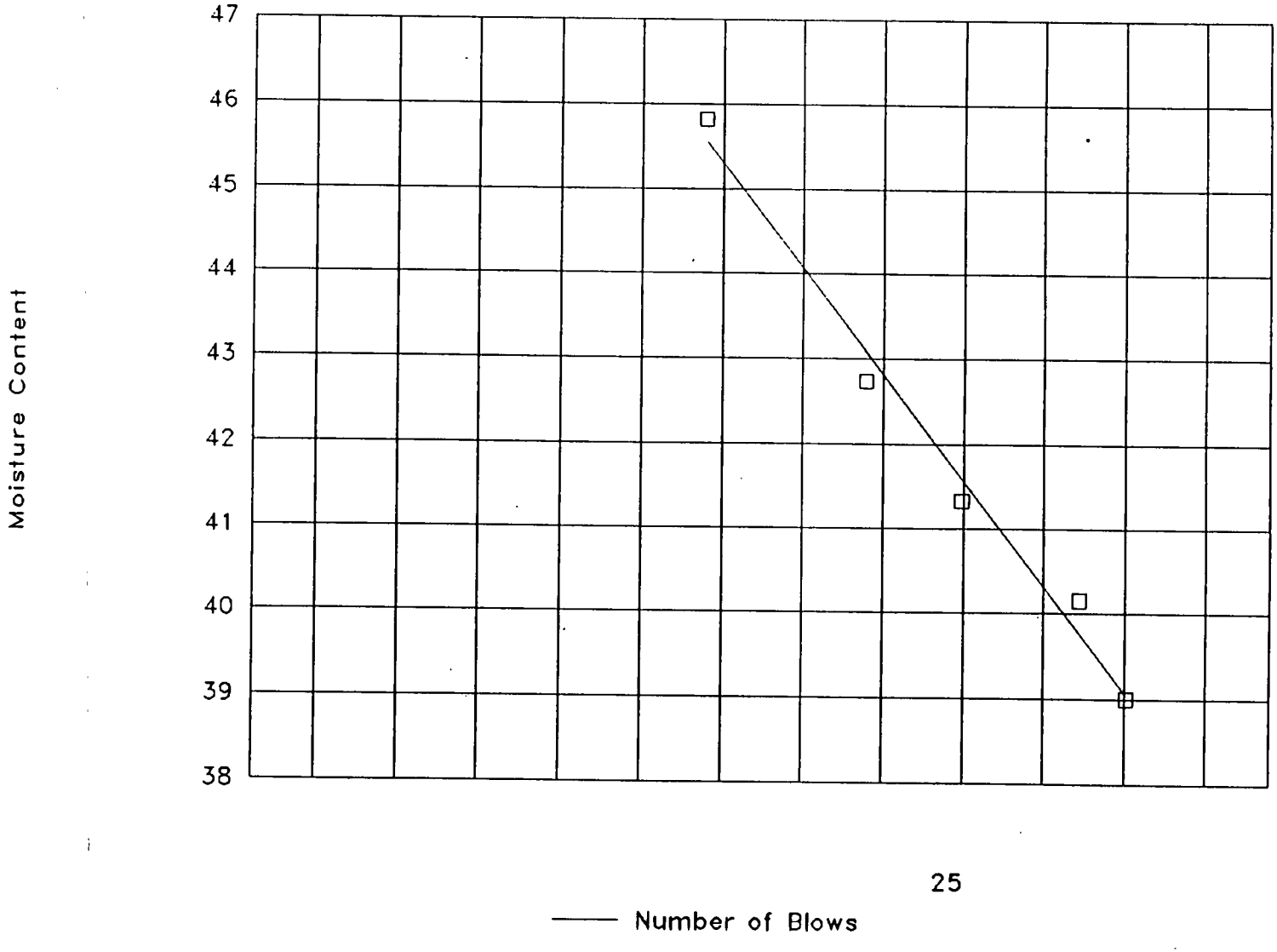
Liquid Limit	41.6
Plastic Limit	18.8
Plasticity Index	22.8

Atterberg Classification CL

Data entry by: NAA Date: 6-7-95
Checked by: DSG Date: 6-9-95
FileName: SAG05004 ADVANCED TERRA TESTING, INC.

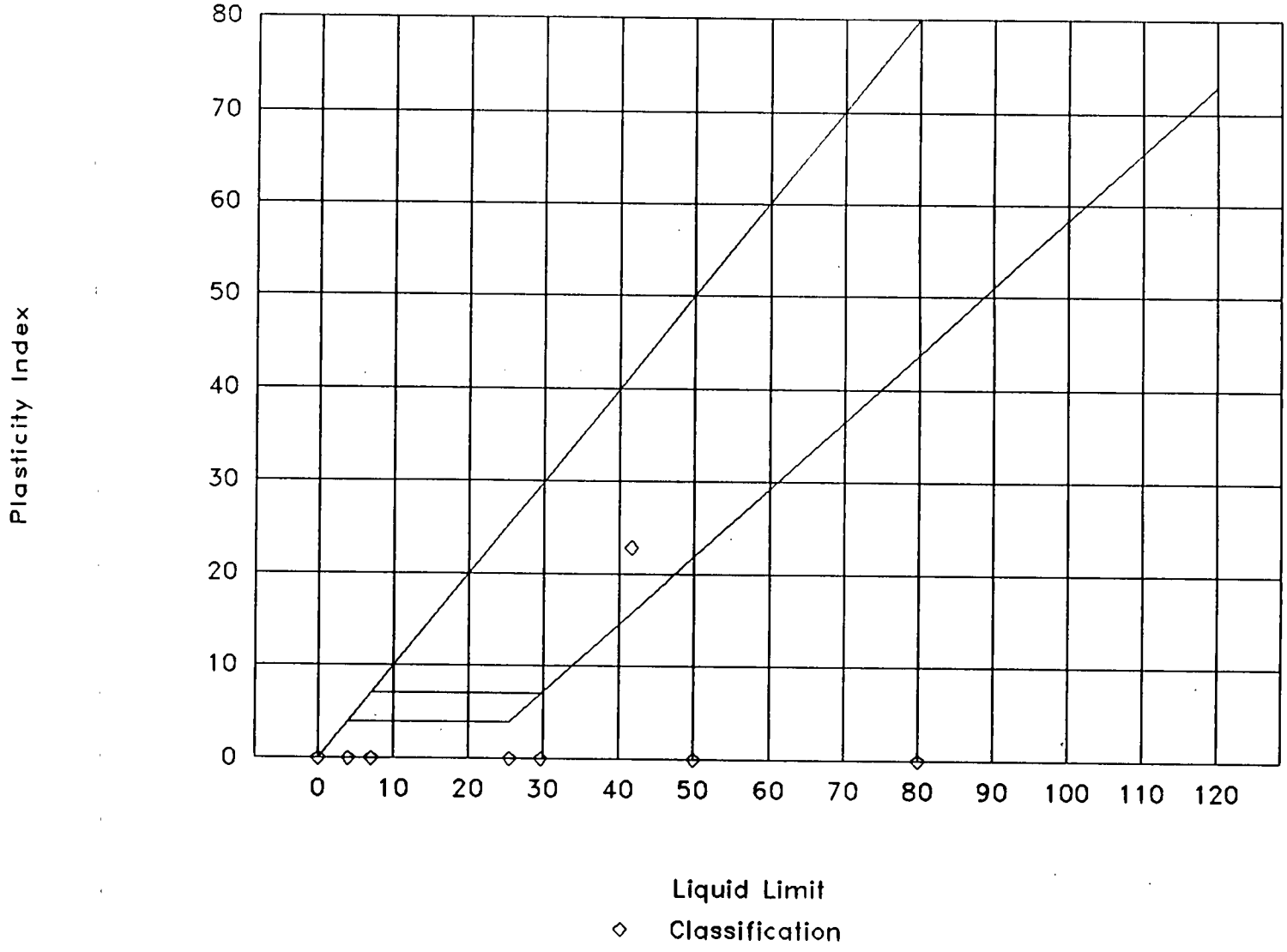
Atterberg Limits, Flow Curve

G2-124, 10.0-12.0', 405004



PLASTICITY CHART

G2-124, 10.0-12.0', 405004



ATTERBERG LIMITS TEST
ASTM D 4318

CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13B
BORING NO.	G2-125	SAMPLED	4-17-95 KP, MM
DEPTH	2.5-4.5'	TEST STARTED	6-2-95 WEB, RW
SAMPLE NO.	405023	TEST FINISHED	6-5-95 WEB, RW
SOIL DESCR.	Fernald		
TEST TYPE	ATTERBERG		

Plastic Limit
Determination

	1	2	3
Dish	27C	2003	B38
Wt Dish & Wet Soil	8.39	7.61	6.20
Wt Dish & Dry Soil	7.23	6.56	5.39
Wt of Moisture	1.16	1.05	0.81
Wt of Dish	1.04	1.03	1.04
Wt of Dry Soil	6.19	5.53	4.35
Moisture Content	18.74	18.99	18.62

Liquid Limit Device Number 0255
Determination

	1	2	3	4	5
Dish	4104	3	58C	B39	B18
Number of Blows	43	31	21	13	10
Wt Dish & Wet Soil	15.88	19.47	18.50	20.08	20.13
Wt Dish & Dry Soil	12.02	14.54	13.67	14.63	14.49
Wt of Moisture	3.86	4.93	4.83	5.45	5.64
Wt of Dish	1.04	1.04	1.06	1.04	1.04
Wt of Dry Soil	10.98	13.50	12.61	13.59	13.45
Moisture Content	35.15	36.52	38.30	40.10	41.93
Calculated Moisture cont	35.072	36.545	38.299	40.457	41.639

Liquid Limit	37.5
Plastic Limit	18.8
Plasticity Index	18.7

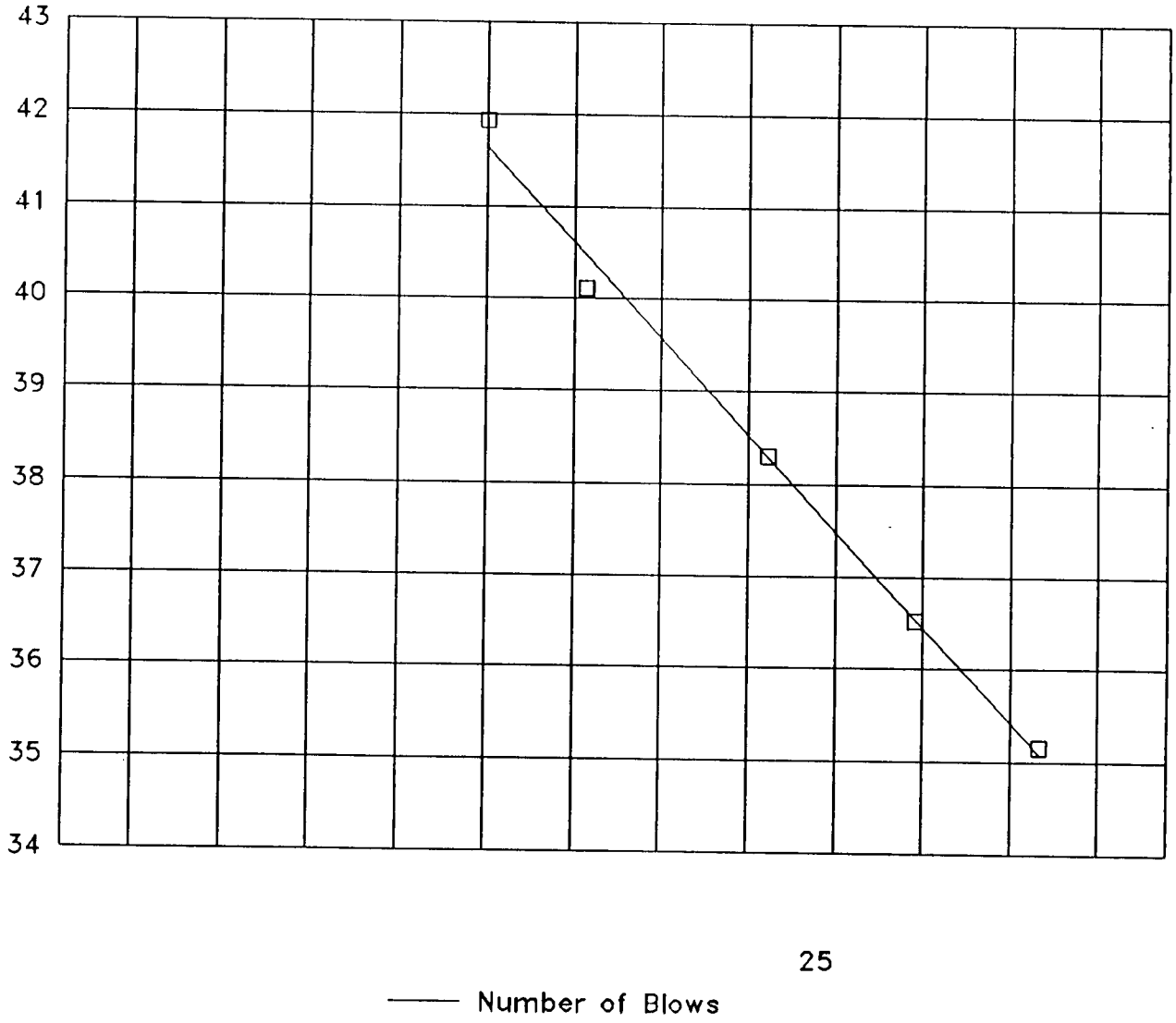
Atterberg Classification CL

Data entry by: NAA Date: 6-5-95
Checked by: [illegible] Date: 6-5-95
FileName: SAG05023

ADVANCED TERRA TESTING, INC.

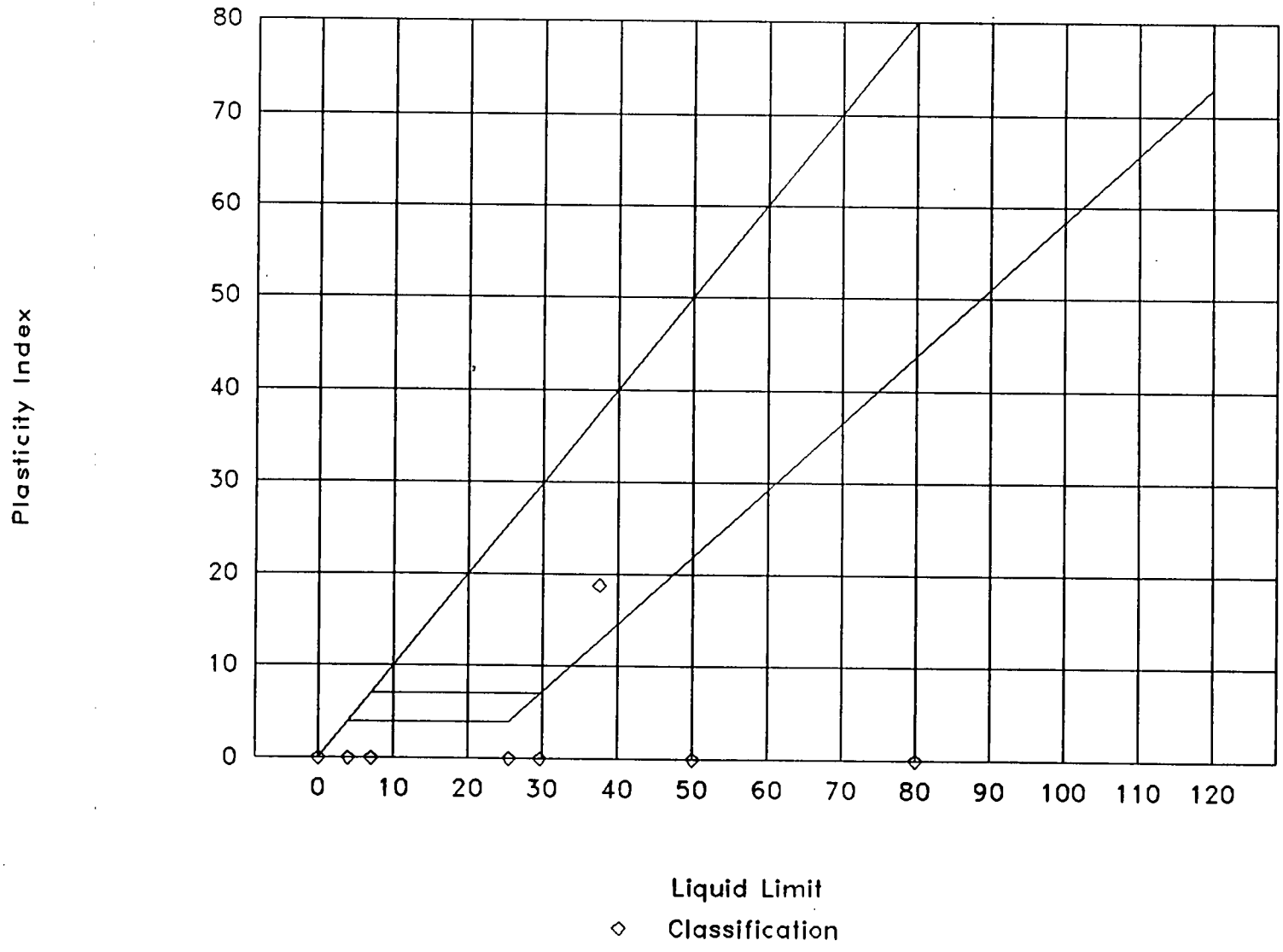
Atterberg Limits, Flow Curve

G2-125, 2.5-4.5', 405023



PLASTICITY CHART

G2-125, 2.5-4.5', 405023



ATTERBERG LIMITS TEST
ASTM D 4318

CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13B
BORING NO.	G2-125	SAMPLED	4-17-95 KP
DEPTH	7.5-9.5'	TEST STARTED	6-2-95 RMW
SAMPLE NO.	405026	TEST FINISHED	6-5-95 RMW
SOIL DESCR.	Fernald		
TEST TYPE	ATTERBERG		

Plastic Limit
Determination

	1	2	3
Dish	19C	2057	60
Wt Dish & Wet Soil	10.63	7.72	7.78
Wt Dish & Dry Soil	9.47	6.91	6.95
Wt of Moisture	1.16	0.81	0.83
Wt of Dish	1.03	1.05	1.03
Wt of Dry Soil	8.44	5.86	5.92
Moisture Content	13.74	13.82	14.02

Liquid Limit Device Number 0258
Determination

	1	2	3	4	5
Dish	22	B31	B15	21C	B69
Number of Blows	45	30	23	17	12
Wt Dish & Wet Soil	16.38	16.86	17.80	20.80	20.11
Wt Dish & Dry Soil	13.72	14.02	14.72	17.06	16.35
Wt of Moisture	2.66	2.84	3.08	3.74	3.76
Wt of Dish	1.04	1.04	1.04	1.05	1.05
Wt of Dry Soil	12.68	12.98	13.68	16.01	15.30
Moisture Content	20.98	21.88	22.51	23.36	24.58
Calculated Moisture cont	20.842	21.936	22.653	23.468	24.408

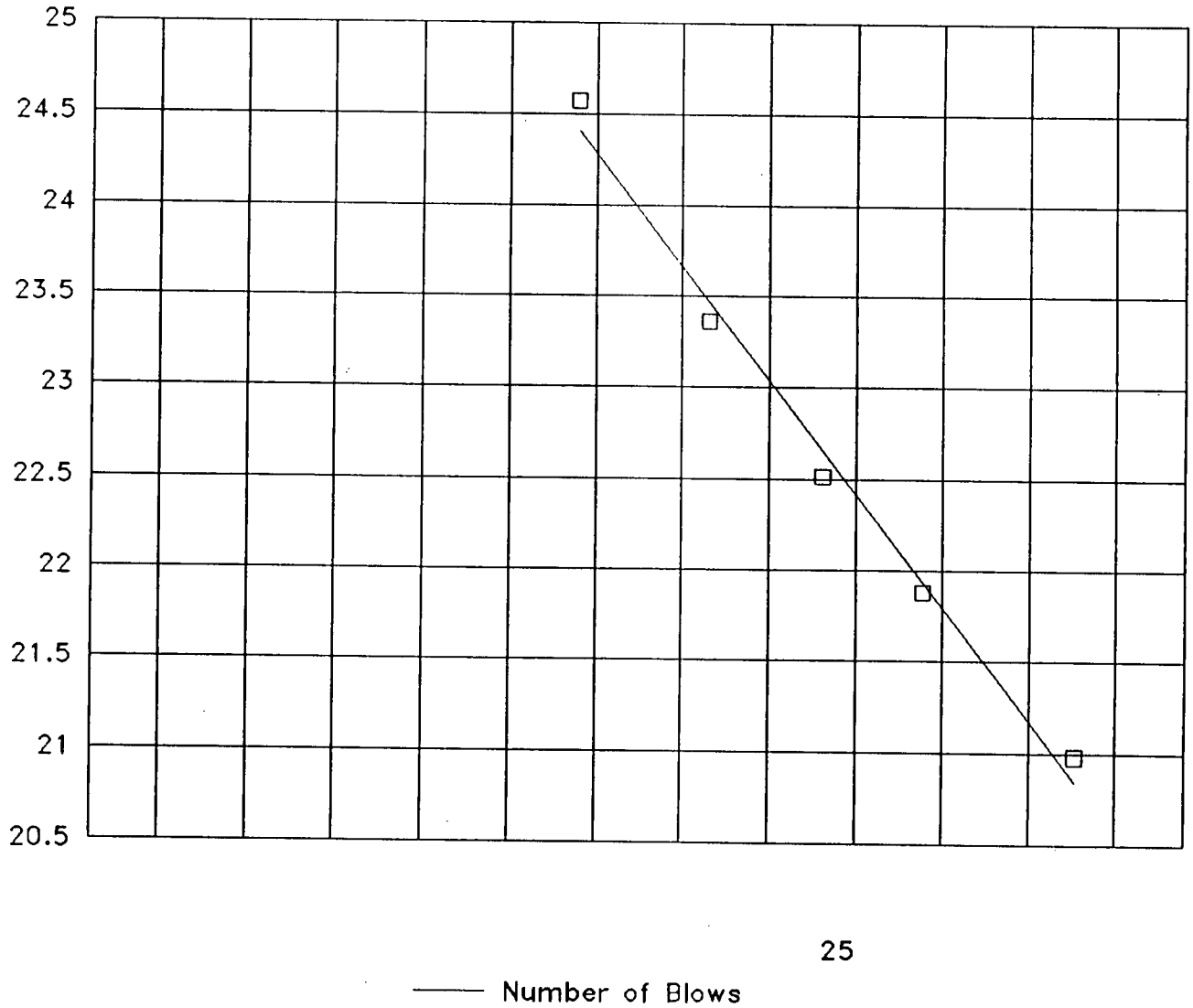
Liquid Limit	22.4
Plastic Limit	13.9
Plasticity Index	8.6

Atterberg Classification CL

Data entry by: NAA Date: 6-5-95
Checked by: DSA Date: 6-5-95
FileName: SAG05026 ADVANCED TERRA TESTING, INC.

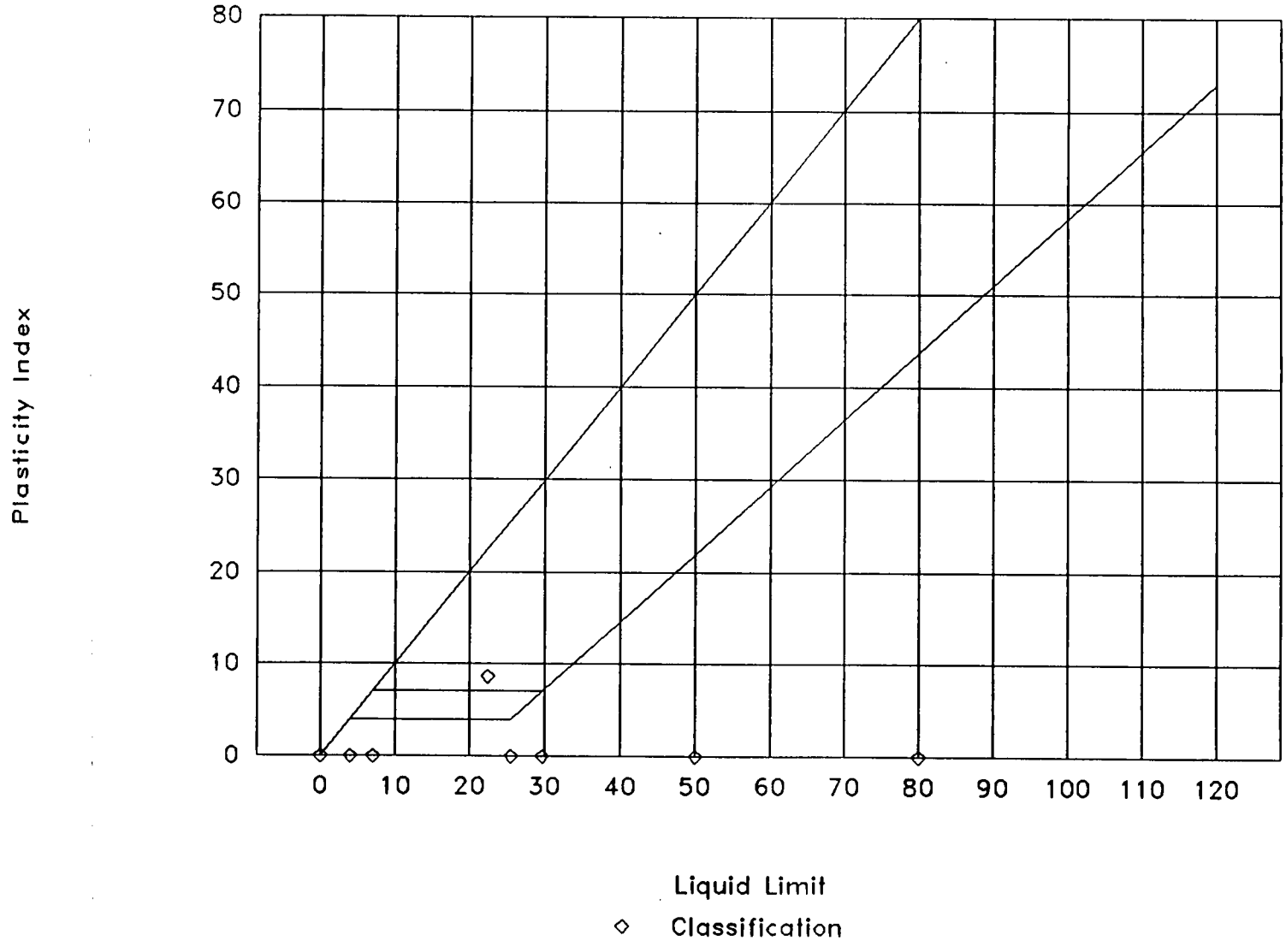
Atterberg Limits, Flow Curve

G2-125, 7.5-9.5', 405026



PLASTICITY CHART

G2-125, 7.5-9.5', 405026



ATTERBERG LIMITS TEST
ASTM D 4318

CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13B
BORING NO.	G2-125	SAMPLED	4-17-95 KP, MM
DEPTH	12.5-14.5'	TEST STARTED	6-6-95 WEB
SAMPLE NO.	405029	TEST FINISHED	6-7-95 WEB
SOIL DESCR.	Fernald		
TEST TYPE	ATTERBERG		

Plastic Limit
Determination

	1	2	3
Dish	B23	2037	38C
Wt Dish & Wet Soil	7.70	8.96	8.38
Wt Dish & Dry Soil	6.95	8.09	7.59
Wt of Moisture	0.75	0.87	0.79
Wt of Dish	1.04	1.05	1.06
Wt of Dry Soil	5.91	7.04	6.53
Moisture Content	12.69	12.36	12.10

Liquid Limit Device Number 0258
Determination

	1	2	3	4	5
Dish	2071	2015	28C	2052	5C
Number of Blows	41	37	14	21	6
Wt Dish & Wet Soil	17.78	20.87	19.40	25.17	30.80
Wt Dish & Dry Soil	15.60	18.25	16.68	21.71	25.57
Wt of Moisture	2.18	2.62	2.72	3.46	5.23
Wt of Dish	1.05	1.07	1.06	1.03	1.07
Wt of Dry Soil	14.55	17.18	15.62	20.68	24.50
Moisture Content	14.98	15.25	17.41	16.73	21.35

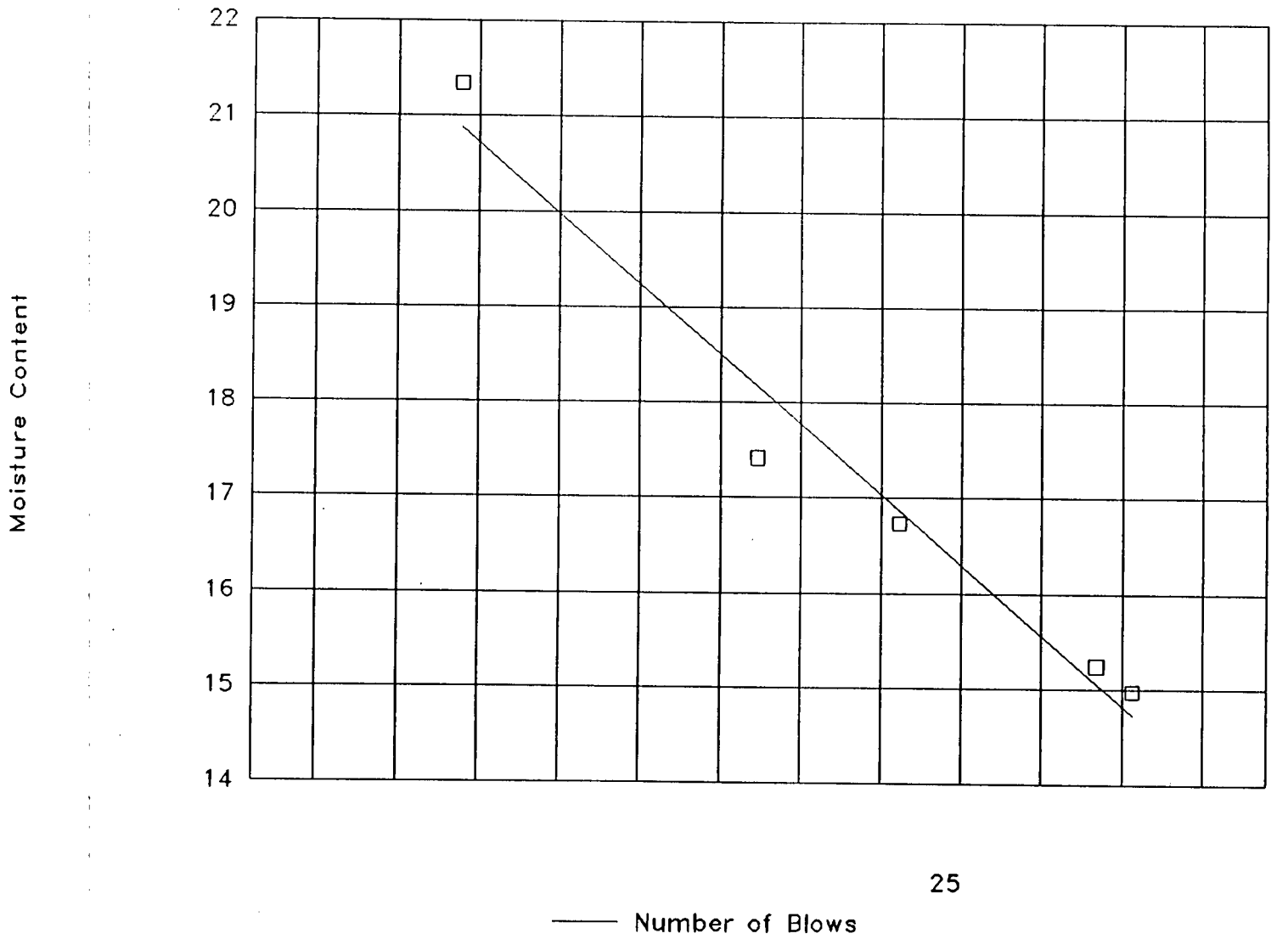
Liquid Limit	16.3
Plastic Limit	12.4
Plasticity Index	3.9

Atterberg Classification ML

Data entry by: NAA Date: 6-7-95
Checked by: DSR Date: 6-9-95
FileName: SAG05029 ADVANCED TERRA TESTING, INC.

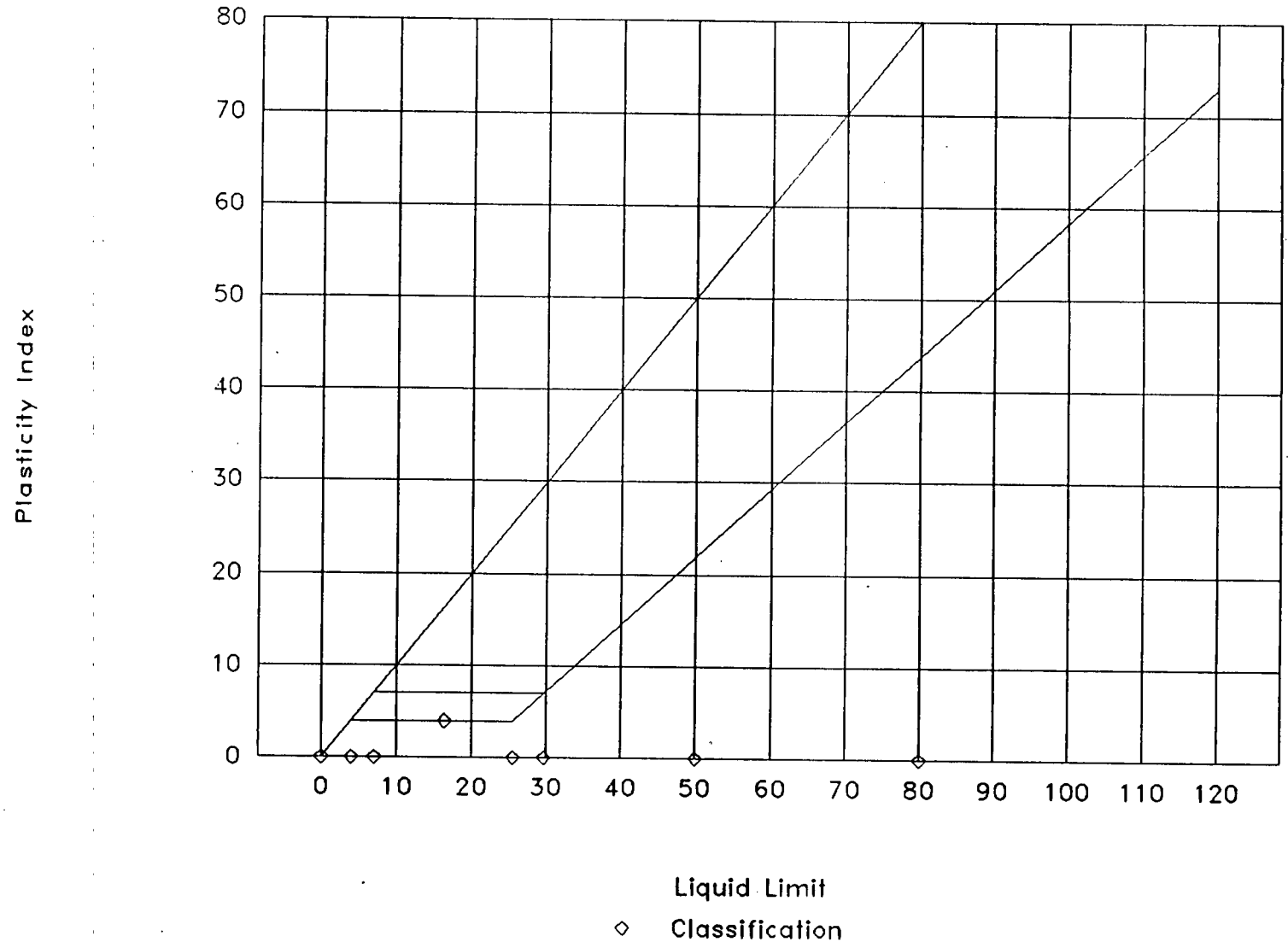
Atterberg Limits, Flow Curve

G2-125, 12.5-14.5', 405029



PLASTICITY CHART

G2-125, 12.5-14.5', 405029



ATTERBERG LIMITS TEST
ASTM D 4318

CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13B

BORING NO.	G2-125	SAMPLED	4-17-95 KP, MM
DEPTH	17.5-19.5'	TEST STARTED	6-1-95 REW
SAMPLE NO.	405033	TEST FINISHED	6-2-95 REW
SOIL DESCR.	Fernald		
TEST TYPE	ATTERBERG		

Plastic Limit
Determination

	1	2	3
Dish	2067	4107	20C
Wt Dish & Wet Soil	11.39	12.03	13.02
Wt Dish & Dry Soil	10.21	10.78	11.66
Wt of Moisture	1.18	1.25	1.36
Wt of Dish	1.03	1.04	1.06
Wt of Dry Soil	9.18	9.74	10.60
Moisture Content	12.85	12.83	12.83

Liquid Limit Device Number 0255
Determination

	1	2	3	4	5
Dish	7C	35CC	2035	44CX	B90
Number of Blows	38	28	22	18	14
Wt Dish & Wet Soil	19.99	15.54	17.43	19.21	18.68
Wt Dish & Dry Soil	16.98	13.18	14.69	16.10	15.57
Wt of Moisture	3.01	2.36	2.74	3.11	3.11
Wt of Dish	1.05	1.05	1.05	1.05	1.07
Wt of Dry Soil	15.93	12.13	13.64	15.05	14.50
Moisture Content	18.90	19.46	20.09	20.66	21.45
Calculated Moisture cont	18.774	19.559	20.180	20.696	21.343

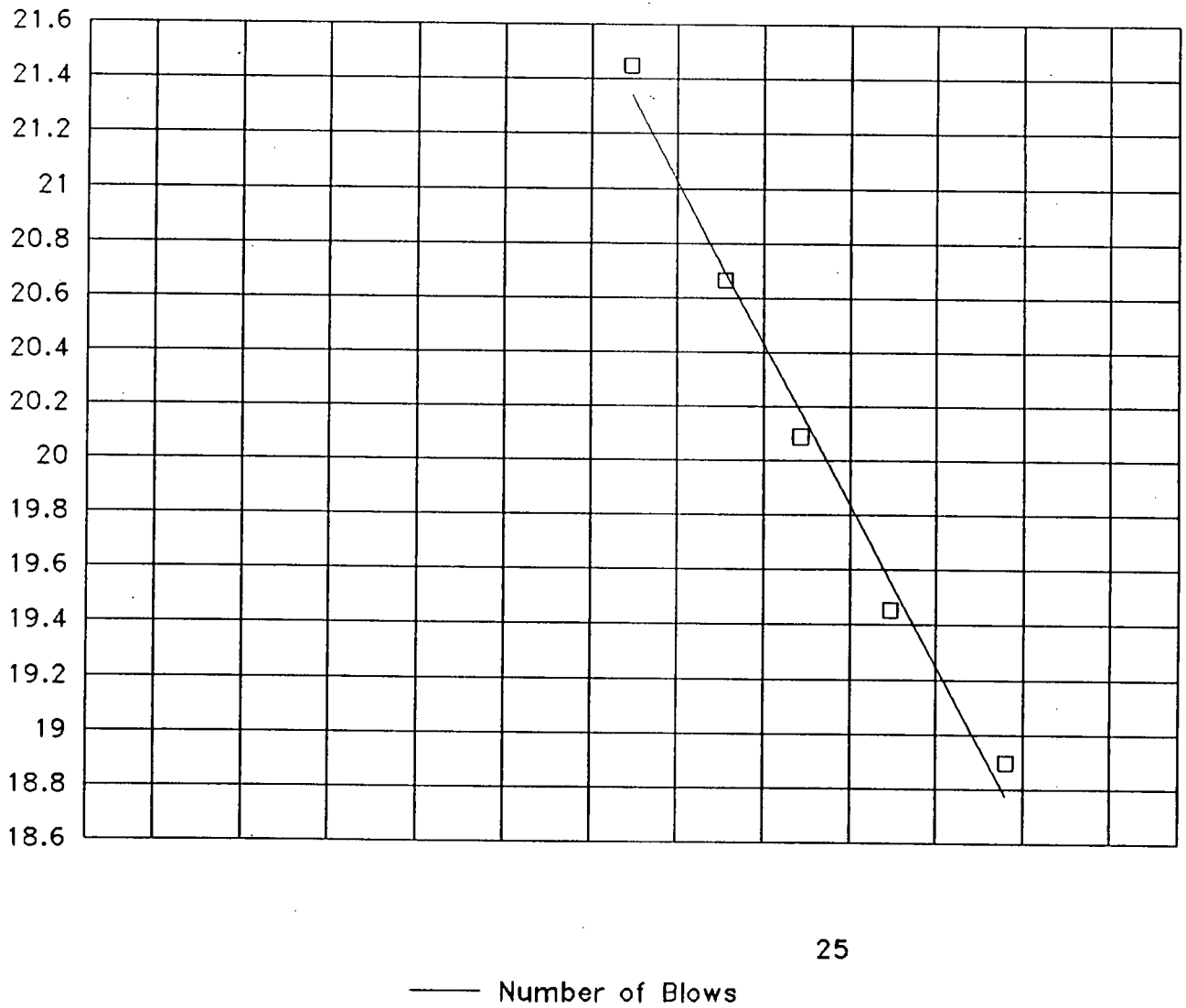
Liquid Limit	19.9
Plastic Limit	12.8
Plasticity Index	7.0

Atterberg Classification CL-ML

Data entry by: NAA Date: 6-2-95
Checked by: DSR Date: 6-5-95
FileName: SAG05033 ADVANCED TERRA TESTING, INC.

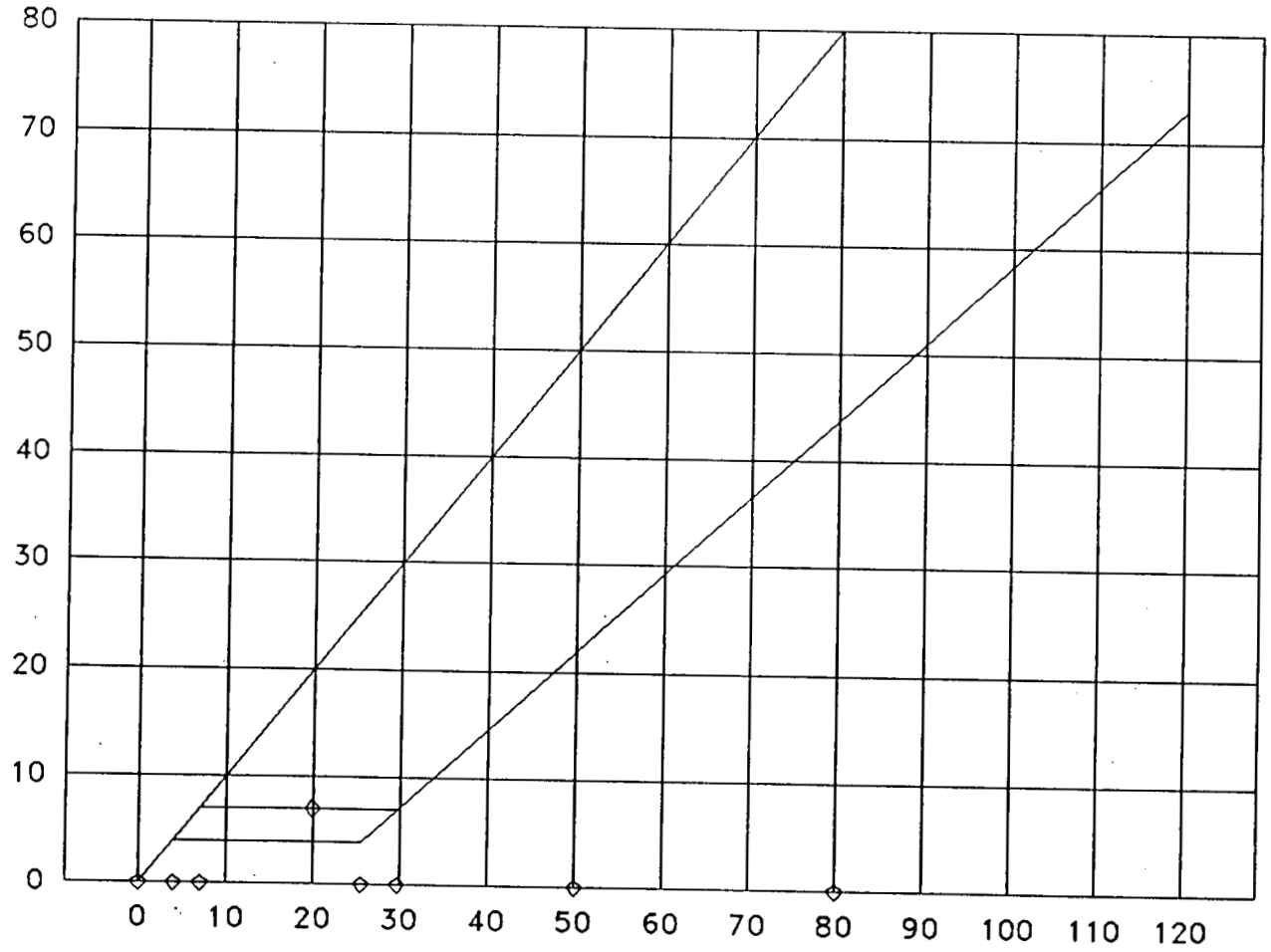
Atterberg Limits, Flow Curve

G2-125, 17.5-19.5', 405033



PLASTICITY CHART

G2-125, 17.5-19.5', 405033



Liquid Limit

◇ Classification

ATTERBERG LIMITS TEST
ASTM D 4318

474

CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13D

BORING NO.	G2-126	SAMPLED	4-24-95 JM
DEPTH	7.5-9.5'	TEST STARTED	6-12-95 WEB
SAMPLE NO.	404768	TEST FINISHED	6-13-95 WEB
SOIL DESCR.	Fernald		
TEST TYPE	ATTERBERG		

Plastic Limit
Determination

	1	2	3
Dish	4110	29C	4101
Wt Dish & Wet Soil	10.18	8.98	8.08
Wt Dish & Dry Soil	9.00	7.97	7.19
Wt of Moisture	1.18	1.01	0.89
Wt of Dish	1.06	1.05	1.05
Wt of Dry Soil	7.94	6.92	6.14
Moisture Content	14.86	14.60	14.50

Liquid Limit Device Number 0258
Determination

	1	2	3	4	5
Dish	B45	B47	B55	2070	2032
Number of Blows	20	25	41	33	16
Wt Dish & Wet Soil	23.73	23.43	23.52	24.26	23.65
Wt Dish & Dry Soil	19.37	19.55	19.68	20.25	18.99
Wt of Moisture	4.36	3.88	3.84	4.01	4.66
Wt of Dish	1.05	1.06	1.05	1.05	1.05
Wt of Dry Soil	18.32	18.49	18.63	19.20	17.94
Moisture Content	23.80	20.98	20.61	20.89	25.98

Liquid Limit	22.6
Plastic Limit	14.7
Plasticity Index	7.9

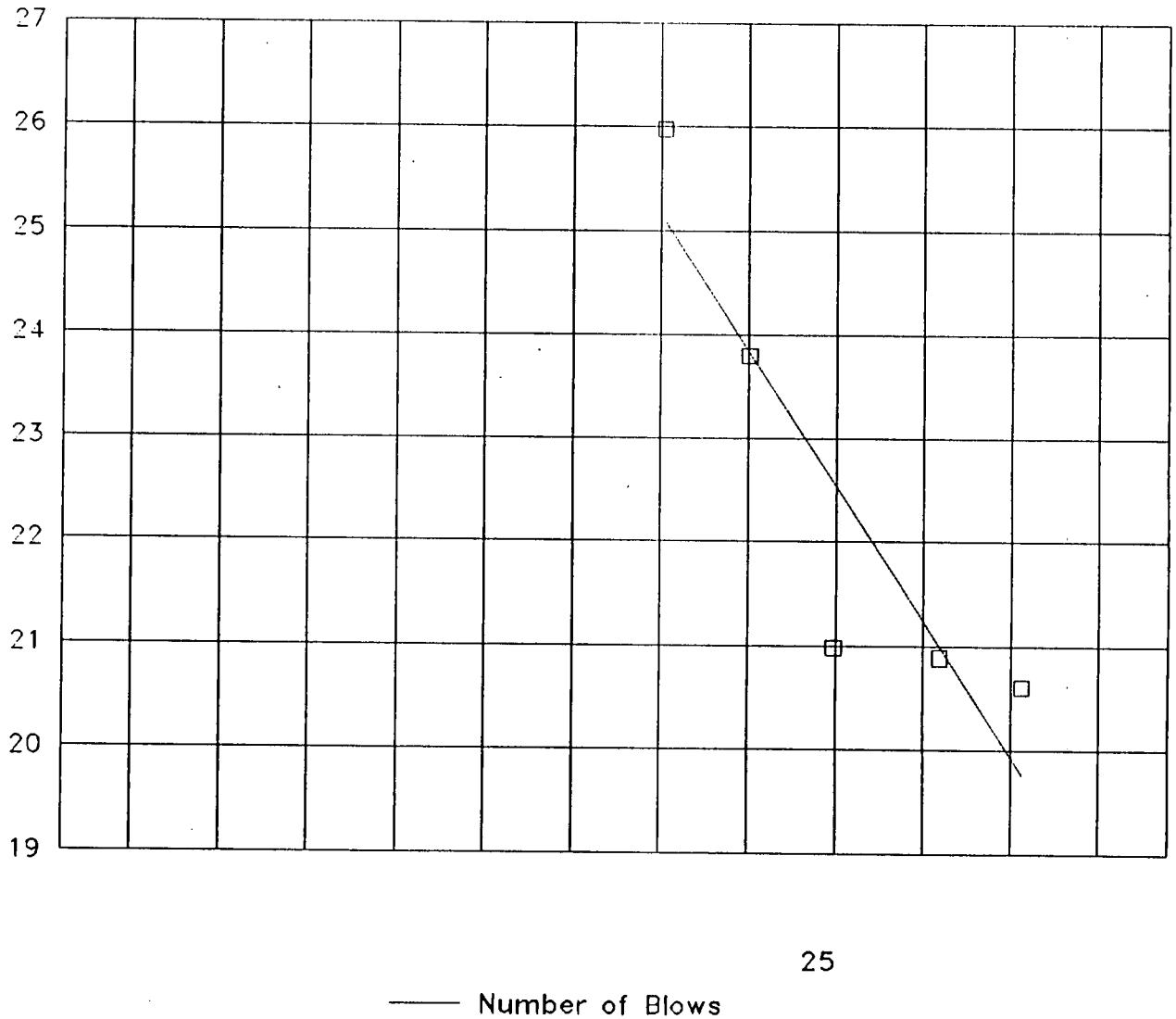
Atterberg Classification CL

Data entry by: NAA Date: 6-13-95
Checked by: WEB Date: 6-15-95
FileName: SAG0768

ADVANCED TERRA TESTING, INC.

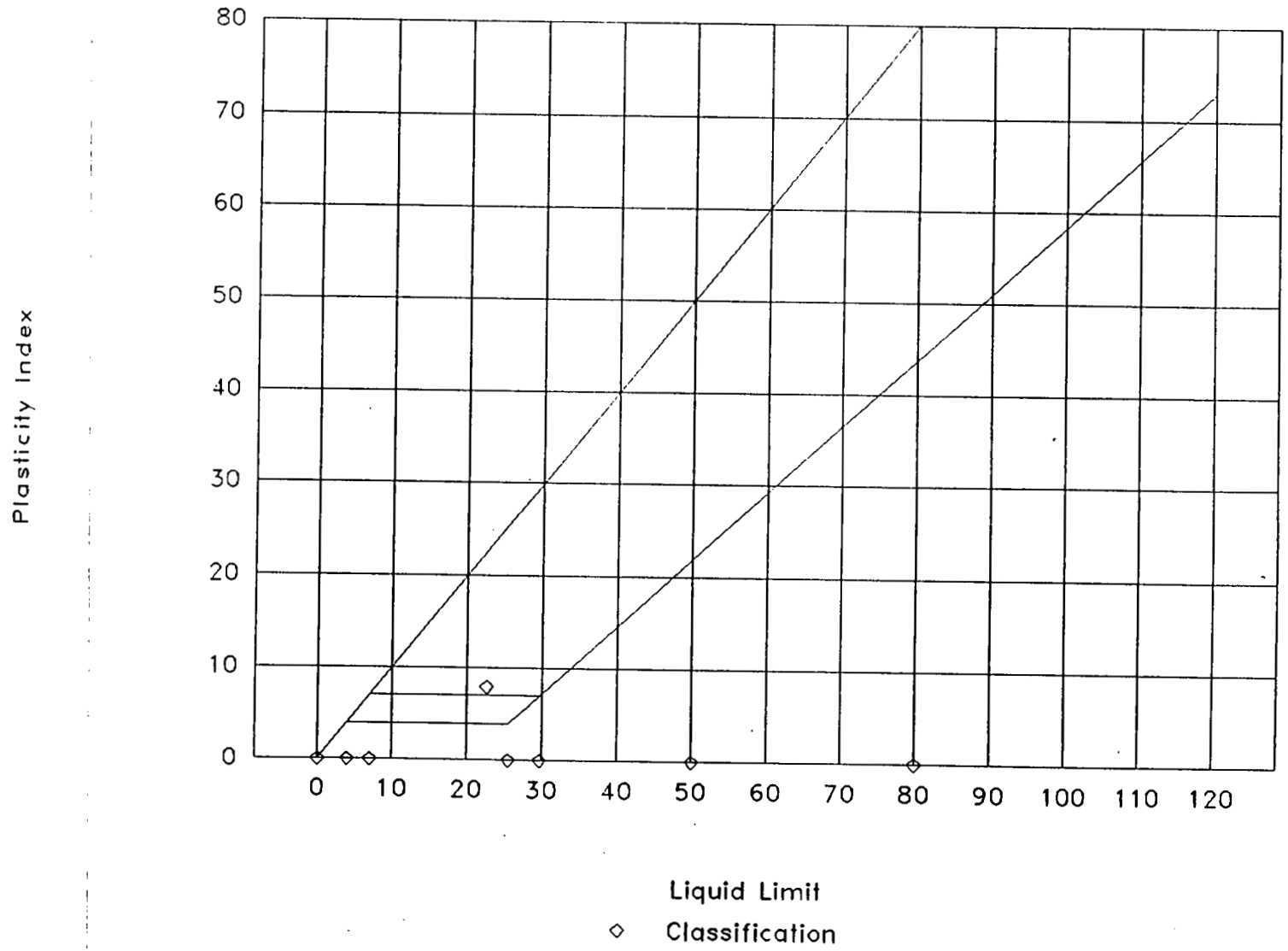
Atterberg Limits, Flow Curve

G2-126, 7.5-9.5', 404768



PLASTICITY CHART

G2-126, 7.5-9.5', 404768



ATTERBERG LIMITS TEST
ASTM D 4318

CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13D
BORING NO.	G2-126	SAMPLED	4-24-95 JM
DEPTH	12.5-14.5'	TEST STARTED	6-6-95 WEB
SAMPLE NO.	404771	TEST FINISHED	6-7-95 WEB
SOIL DESCR.	Fernald		
TEST TYPE	ATTERBERG		

Plastic Limit
Determination

	1	2	3
Dish	B16	B21	2063
Wt Dish & Wet Soil	9.30	9.62	9.01
Wt Dish & Dry Soil	8.31	8.60	8.03
Wt of Moisture	0.99	1.02	0.98
Wt of Dish	1.04	1.05	1.05
Wt of Dry Soil	7.27	7.55	6.98
Moisture Content	13.62	13.51	14.04

Liquid Limit Device Number 0258
Determination

	1	2	3	4	5
Dish	27C	B39	2003	58C	B38
Number of Blows	18	30	24	17	12
Wt Dish & Wet Soil	20.62	21.32	19.42	18.43	22.00
Wt Dish & Dry Soil	16.74	17.48	15.86	14.95	17.55
Wt of Moisture	3.88	3.84	3.56	3.48	4.45
Wt of Dish	1.04	1.04	1.03	1.06	1.04
Wt of Dry Soil	15.70	16.44	14.83	13.89	16.51
Moisture Content	24.71	23.36	24.01	25.05	26.95

Liquid Limit	23.8
Plastic Limit	13.7
Plasticity Index	10.1

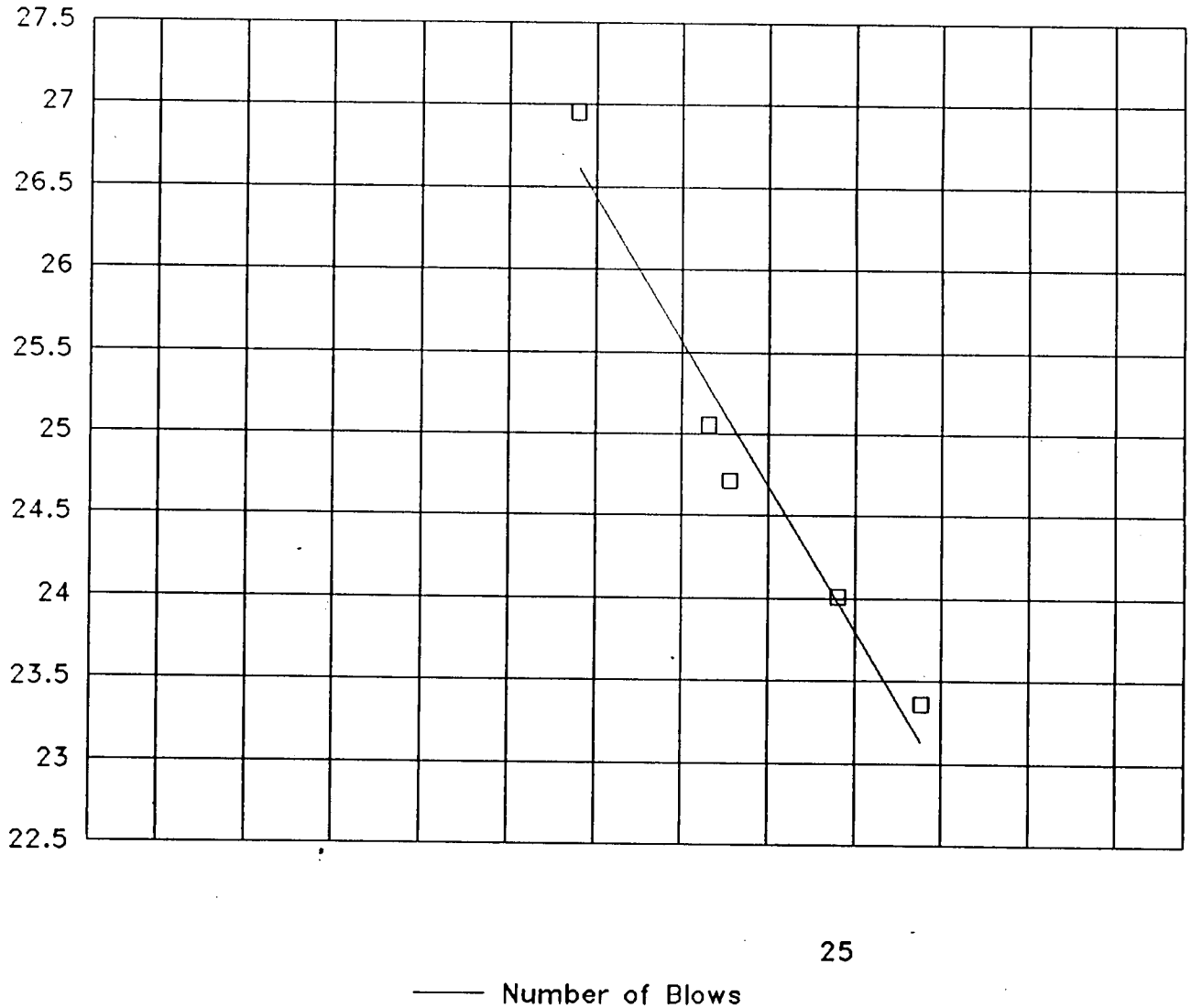
Atterberg Classification CL

Data entry by: NAA Date: 6-7-95
Checked by: DSR Date: 6-9-95
FileName: SAG0771

ADVANCED TERRA TESTING, INC.

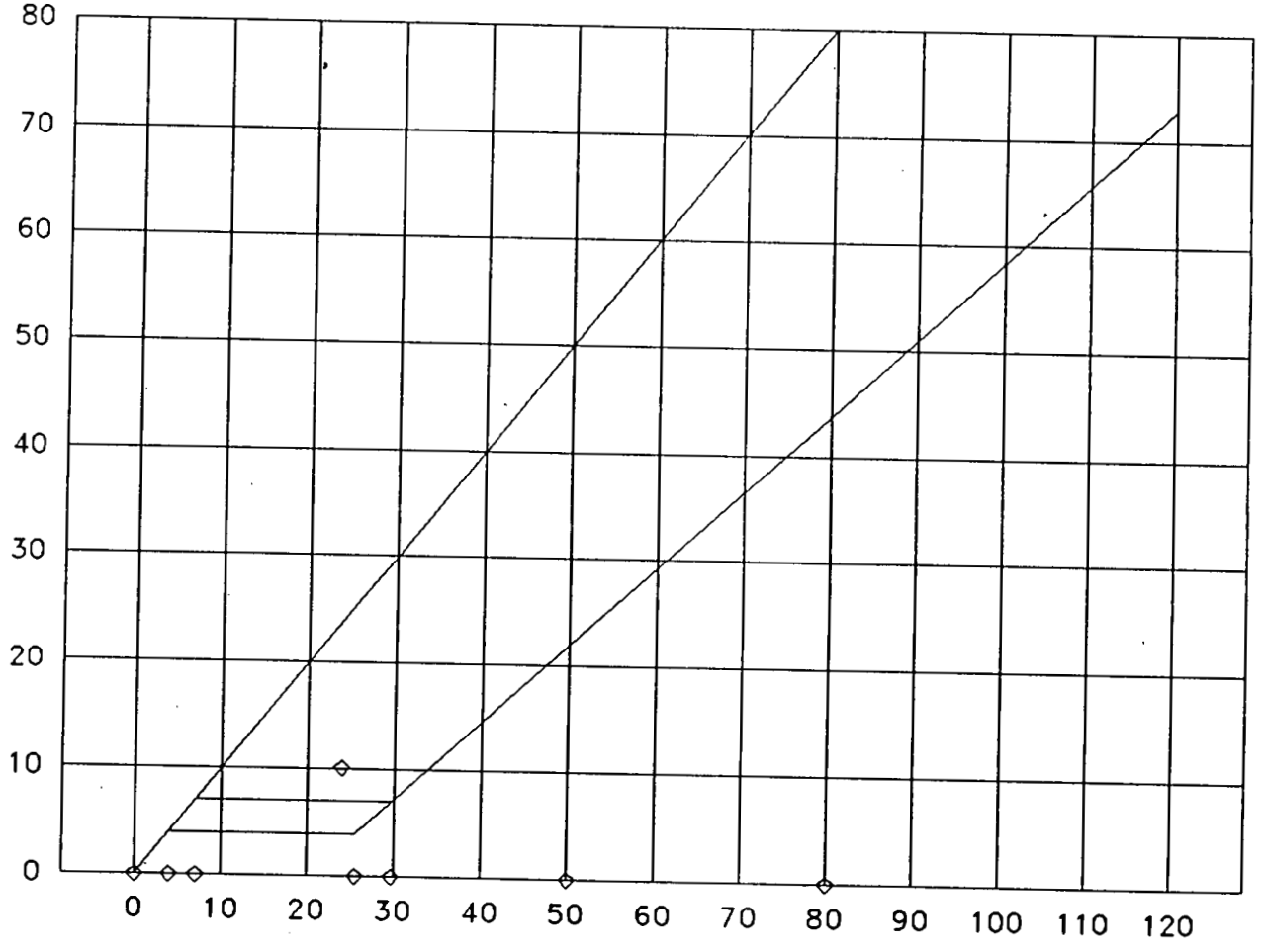
Atterberg Limits, Flow Curve

G2-126, 12.5-14.5', 404771



PLASTICITY CHART

G2-126, 12.5-14.5', 404771



Liquid Limit

◇ Classification

ATTERBERG LIMITS TEST
ASTM D 4318

CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13D
BORING NO.	G2-126	SAMPLED	4-24-95 JM
DEPTH	15-17'	TEST STARTED	6-07-95
SAMPLE NO.	404773	TEST FINISHED	6-08-95
SOIL DESCR.	Fernald		
TEST TYPE	ATTERBERG		

Plastic Limit
Determination

	1	2	3
Dish	2027	2073	2005
Wt Dish & Wet Soil	5.96	6.97	6.50
Wt Dish & Dry Soil	5.36	6.25	5.84
Wt of Moisture	0.60	0.72	0.66
Wt of Dish	1.06	1.04	1.06
Wt of Dry Soil	4.30	5.21	4.78
Moisture Content	13.95	13.82	13.81

Liquid Limit Device Number 0255
Determination

	1	2	3	4	5
Dish	2053	13C	B61	2007	B35
Number of Blows	47	33	30	23	14
Wt Dish & Wet Soil	9.71	10.53	10.05	11.99	10.87
Wt Dish & Dry Soil	8.12	8.77	8.34	9.84	8.86
Wt of Moisture	1.59	1.76	1.71	2.15	2.01
Wt of Dish	1.05	1.05	1.05	1.05	1.04
Wt of Dry Soil	7.07	7.72	7.29	8.79	7.82
Moisture Content	22.49	22.80	23.46	24.46	25.70

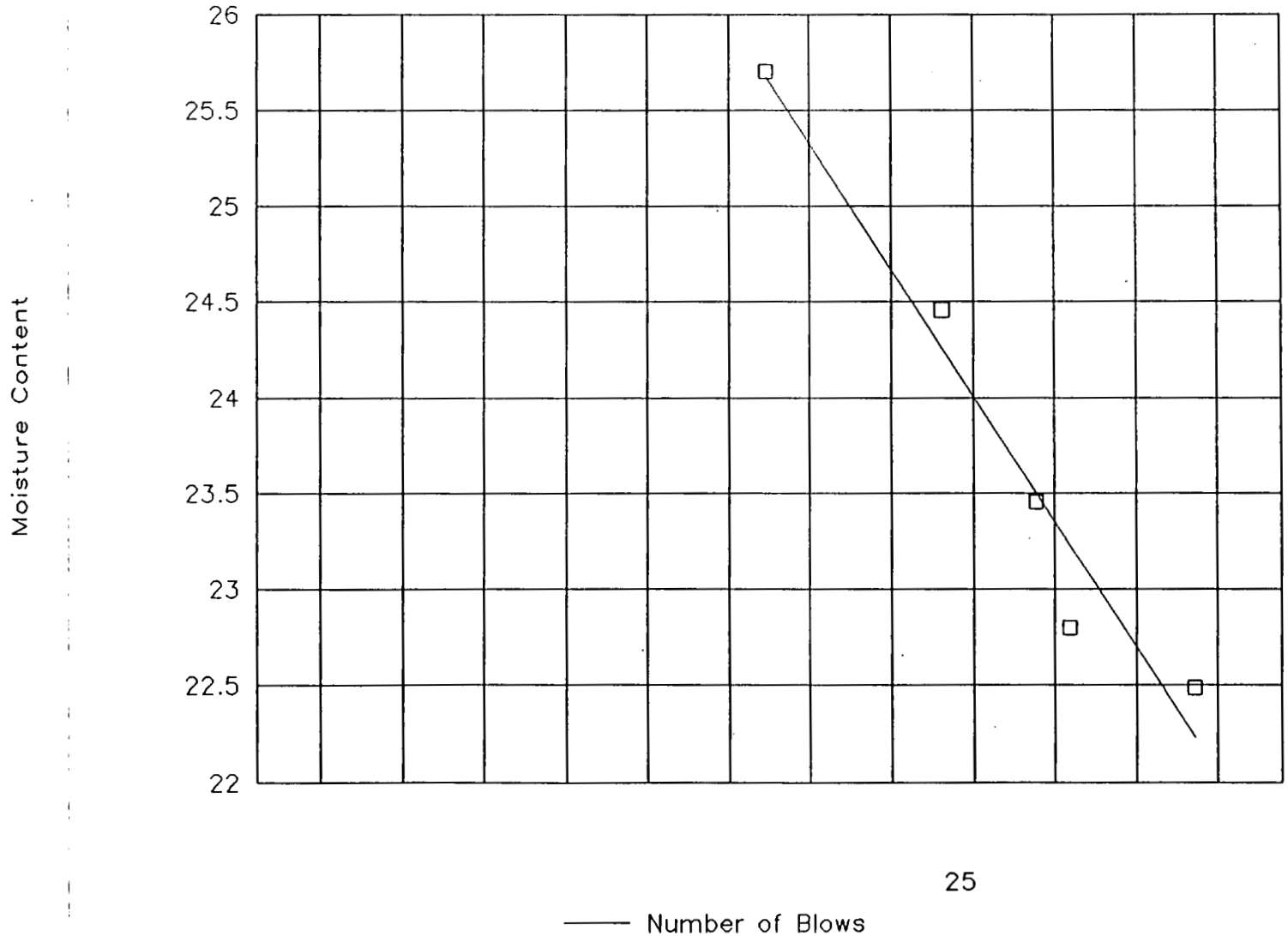
Liquid Limit	24.0
Plastic Limit	13.9
Plasticity Index	10.2

Atterberg Classification CL

Data entry by: CAL Date: 6-09-95
Checked by: DSL Date: 6-9-95
FileName: SAG0773 ADVANCED TERRA TESTING, INC.

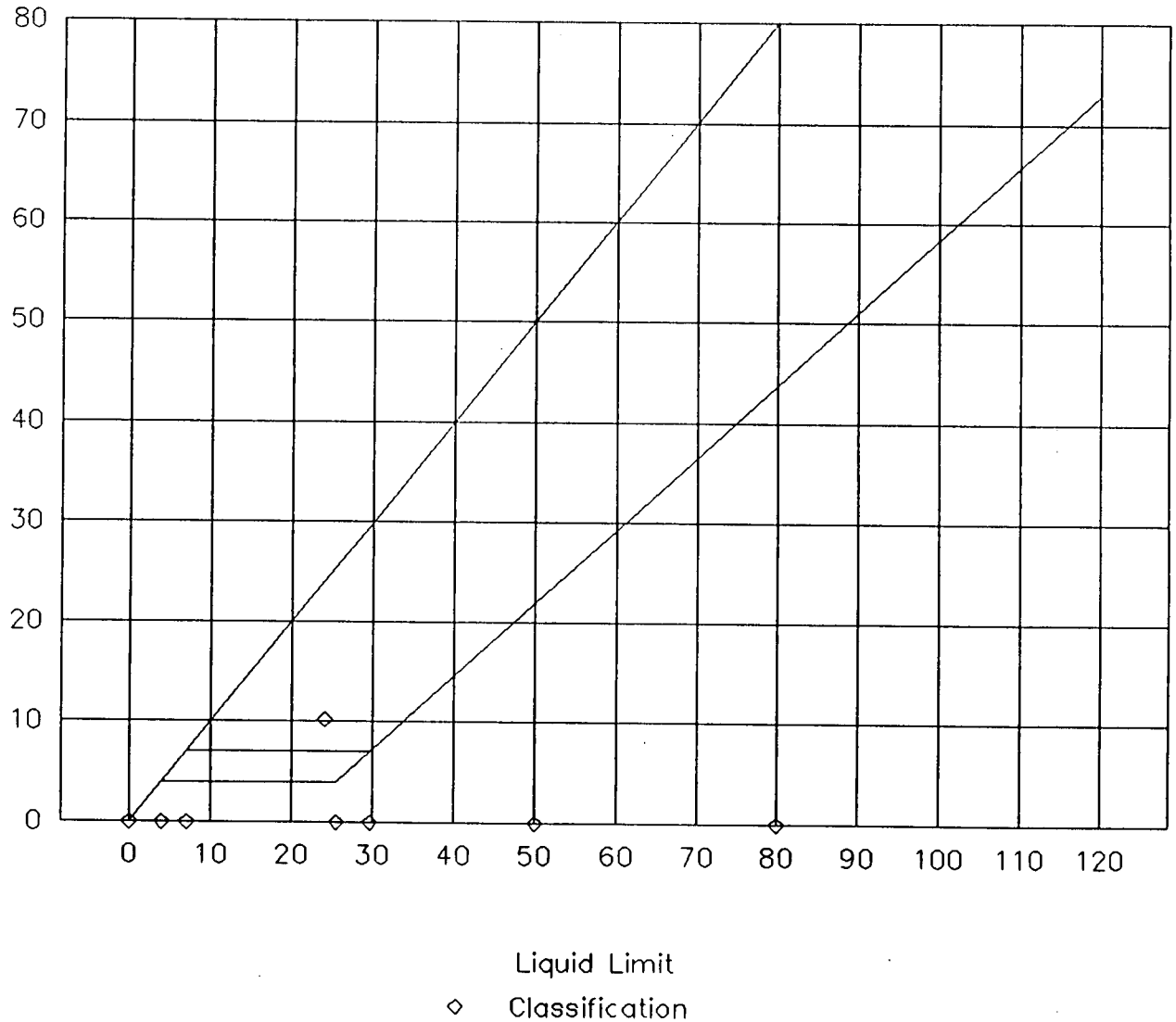
Atterberg Limits, Flow Curve

G2-126, 15-17', 404773



PLASTICITY CHART

G2-126, 15-17', 404773



ATTERBERG LIMITS TEST
ASTM D 4318

CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13D

BORING NO.	G2-126	SAMPLED	4-24-95 JM
DEPTH	25.0-27.0'	TEST STARTED	6-12-95 MJ
SAMPLE NO.	404778	TEST FINISHED	6-14-95 MJ
SOIL DESCR.	Fernald		
TEST TYPE	ATTERBERG		

Plastic Limit
Determination

	1	2	3
Dish	2053	13C	
Wt Dish & Wet Soil	9.50	10.23	
Wt Dish & Dry Soil	8.39	9.04	
Wt of Moisture	1.11	1.19	
Wt of Dish	1.07	1.06	
Wt of Dry Soil	7.32	7.98	
Moisture Content	15.16	14.91	

Liquid Limit Device Number 0258
Determination

	1	2	3	4	5
Dish	60	21C	B15	41C	B10
Number of Blows	32	29	22	18	14
Wt Dish & Wet Soil	12.74	13.36	13.07	11.48	9.65
Wt Dish & Dry Soil	10.32	10.78	10.50	9.20	7.68
Wt of Moisture	2.42	2.58	2.57	2.28	1.97
Wt of Dish	1.03	1.06	1.06	1.03	1.04
Wt of Dry Soil	9.29	9.72	9.44	8.17	6.64
Moisture Content	26.05	26.54	27.22	27.91	29.67

Liquid Limit	27.0
Plastic Limit	15.0
Plasticity Index	11.9

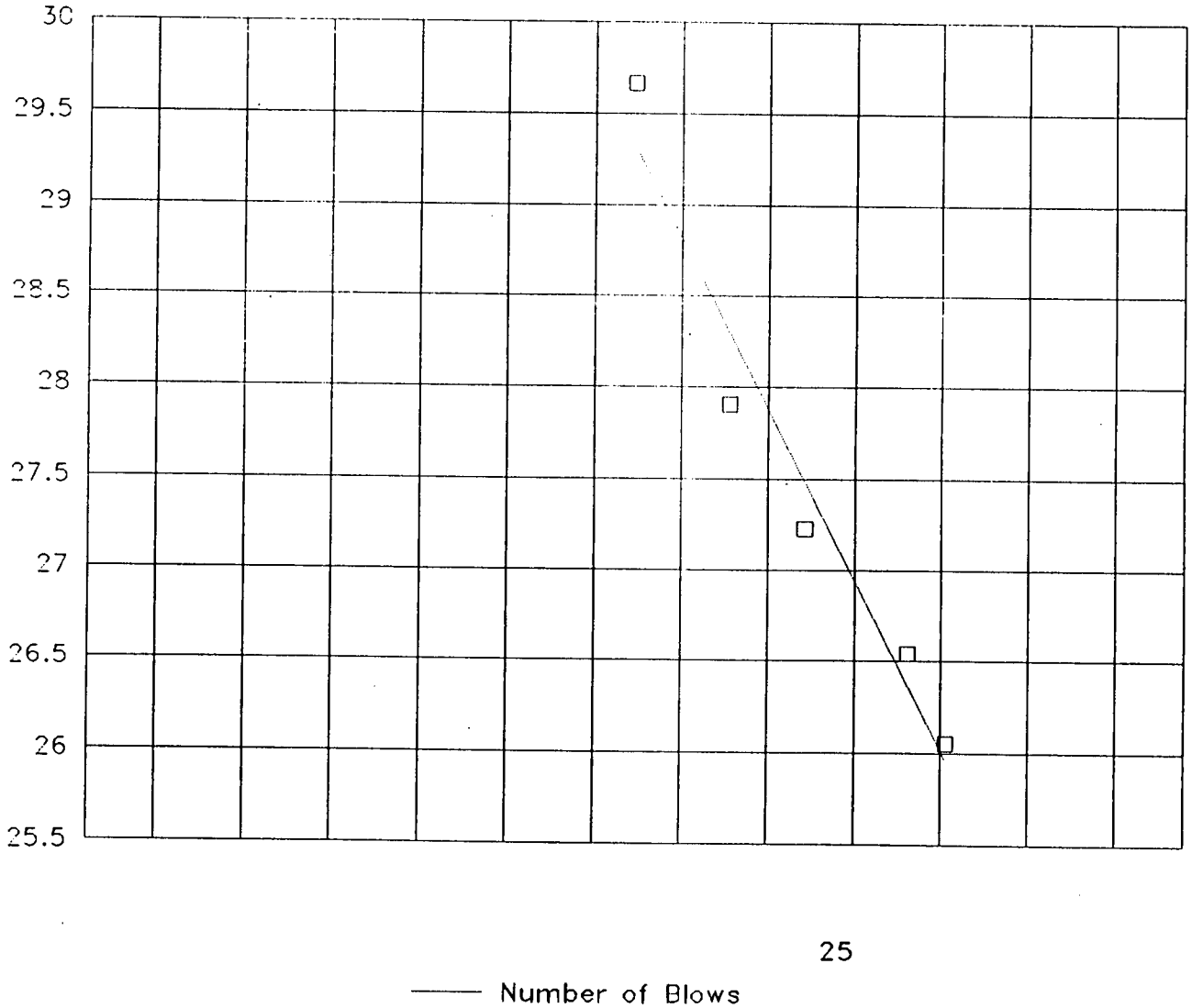
Atterberg Classification CL

Data entry by: NAA Date: 6-14-95
Checked by: BR Date: 6-15-95
FileName: SAG0778

ADVANCED TERRA TESTING, INC.

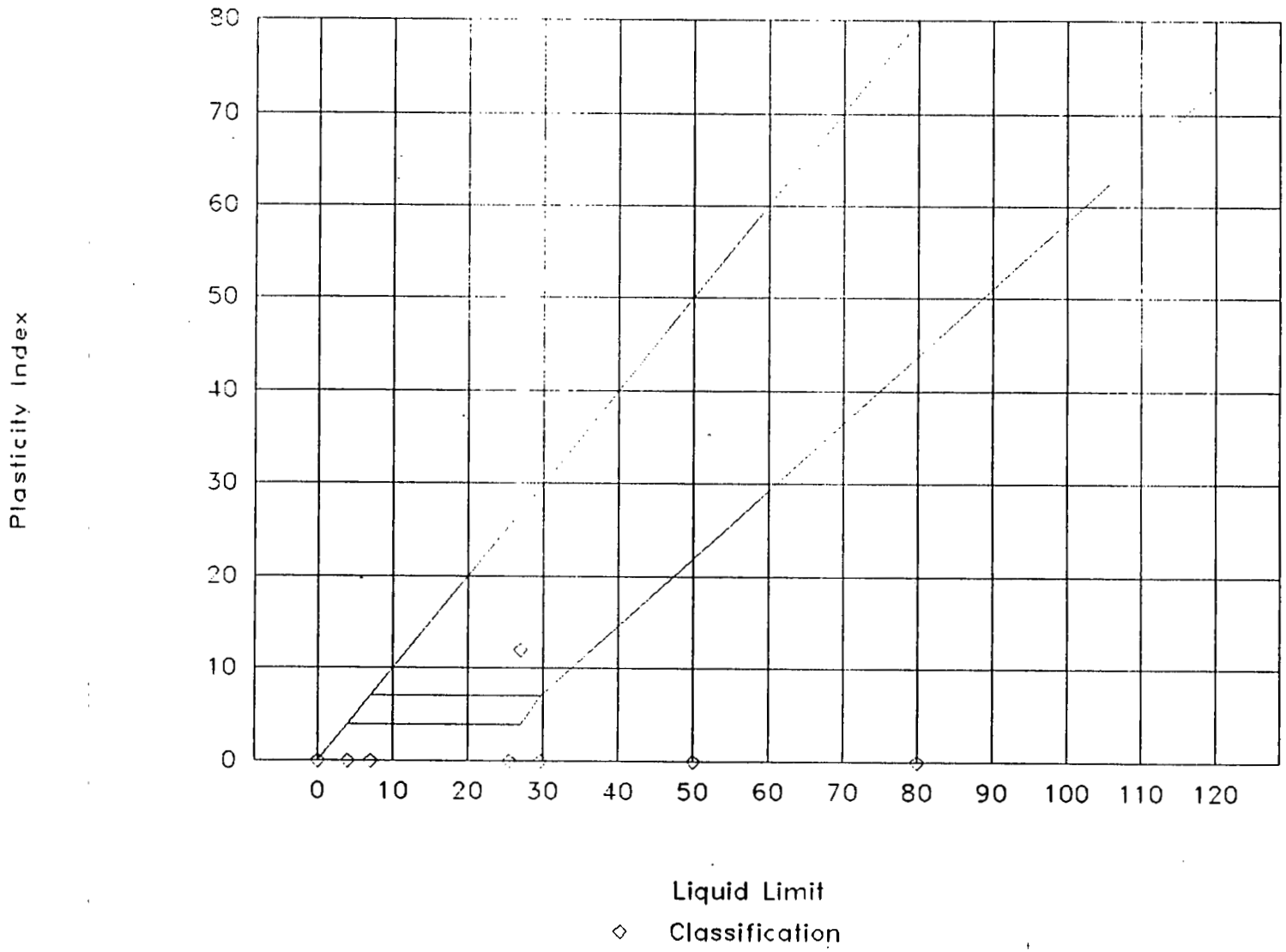
Atterberg Limits, Flow Curve

G2-126, 25.0-27.0', 404778



PLASTICITY CHART

G2-126, 25.0-27.0', 404778



ATTERBERG LIMITS TEST
ASTM D 4318

CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13D
BORING NO.	G2-126	SAMPLED	5-24-95 JM
DEPTH	35.0-37.0'	TEST STARTED	6-8-95 WEB
SAMPLE NO.	404783	TEST FINISHED	6-9-95 WEB
SOIL DESCR.	Fernald		
TEST TYPE	ATTERBERG		

Plastic Limit
Determination

	1	2	3
Dish	54C	B24	2026
Wt Dish & Wet Soil	8.75	9.47	7.72
Wt Dish & Dry Soil	7.78	8.40	6.88
Wt of Moisture	0.97	1.07	0.84
Wt of Dish	1.06	1.03	1.04
Wt of Dry Soil	6.72	7.37	5.84
Moisture Content	14.43	14.52	14.38

Liquid Limit Device Number 0258
Determination

	1	2	3	4	5
Dish	2029	B48	4103	2024	2012
Number of Blows	40	24	20	16	10
Wt Dish & Wet Soil	24.22	25.23	21.14	24.87	26.51
Wt Dish & Dry Soil	19.75	20.34	17.00	19.83	20.92
Wt of Moisture	4.47	4.89	4.14	5.04	5.59
Wt of Dish	1.05	1.05	1.04	1.06	1.05
Wt of Dry Soil	18.70	19.29	15.96	18.77	19.87
Moisture Content	23.90	25.35	25.94	26.85	28.13

Liquid Limit	25.3
Plastic Limit	14.4
Plasticity Index	10.9

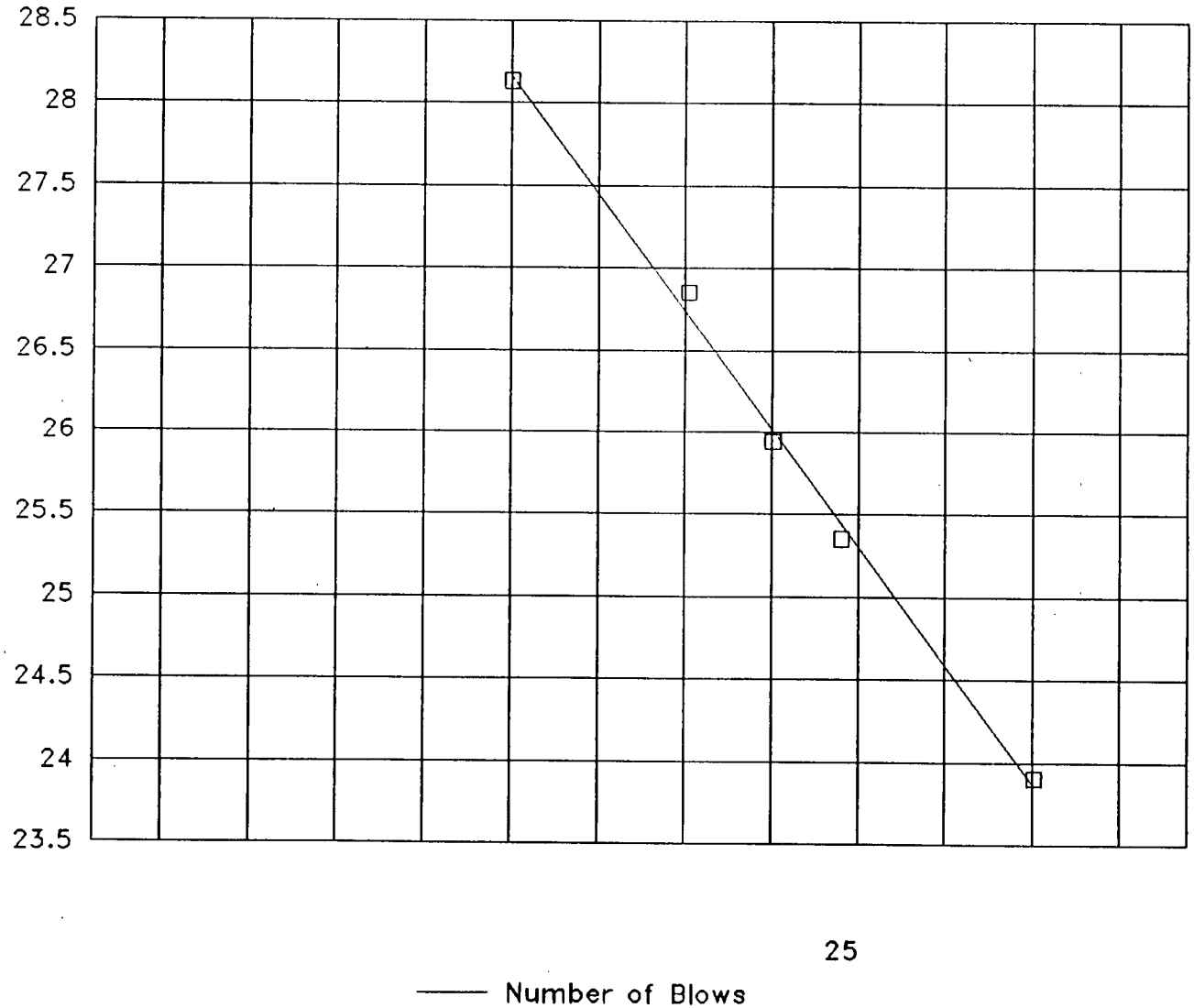
Atterberg Classification CL

Data entry by: NAA Date: 6-9-95
Checked by: [illegible] Date: 6-9-95
FileName: SAG0783

ADVANCED TERRA TESTING, INC.

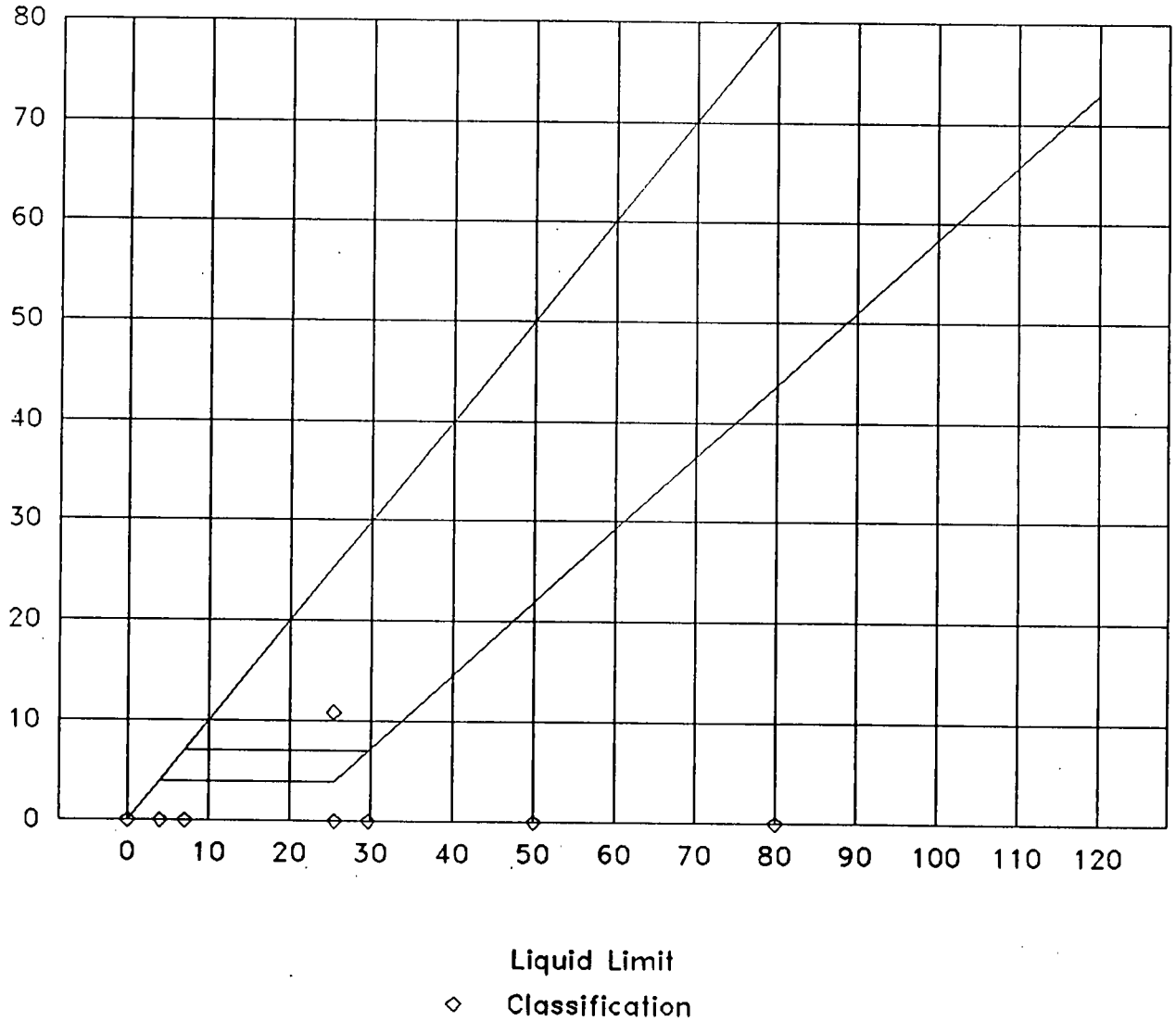
Atterberg Limits, Flow Curve

G2-126, 35.0-37.0', 404783



PLASTICITY CHART

G2-126, 35.0-37.0', 404783



ATTERBERG LIMITS TEST
ASTM D 4318

CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13D
BORING NO.	G2-127	SAMPLED	4-21-95 MG
DEPTH	7.5-9.5'	TEST STARTED	6-07-95
SAMPLE NO.	404751	TEST FINISHED	6-08-95
SOIL DESCR.	Fernald		
TEST TYPE	ATTERBERG		

Plastic Limit
Determination

	1	2	3
Dish	B56	2068	B10
Wt Dish & Wet Soil	5.15	5.07	3.81
Wt Dish & Dry Soil	4.61	4.55	3.46
Wt of Moisture	0.54	0.52	0.35
Wt of Dish	1.05	1.04	1.03
Wt of Dry Soil	3.56	3.51	2.43
Moisture Content	15.17	14.81	14.40

Liquid Limit Device Number 0255
Determination

	1	2	3	4	5
Dish	41C	0C	2021	2034	2001
Number of Blows	43	34	29	18	16
Wt Dish & Wet Soil	10.38	11.66	11.39	11.55	10.79
Wt Dish & Dry Soil	8.43	9.38	9.13	9.18	8.54
Wt of Moisture	1.95	2.28	2.26	2.37	2.25
Wt of Dish	1.03	1.05	1.05	1.04	1.06
Wt of Dry Soil	7.40	8.33	8.08	8.14	7.48
Moisture Content	26.35	27.37	27.97	29.12	30.08

Liquid Limit	28.3
Plastic Limit	14.8
Plasticity Index	13.5

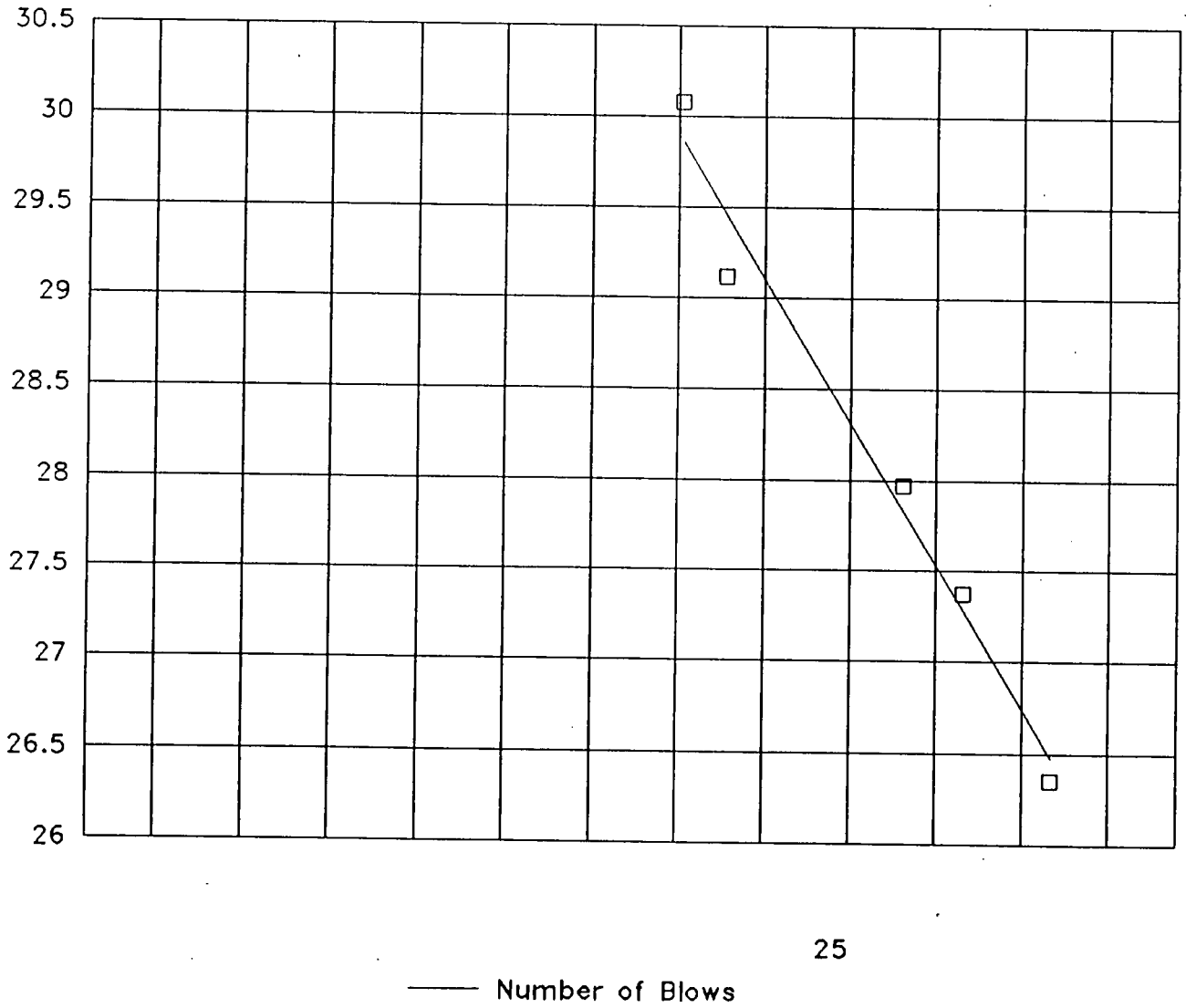
Atterberg Classification CL

Data entry by: CAL Date: 6-08-95
Checked by: DSR Date: 6-9-95
FileName: SAG0751

ADVANCED TERRA TESTING, INC.

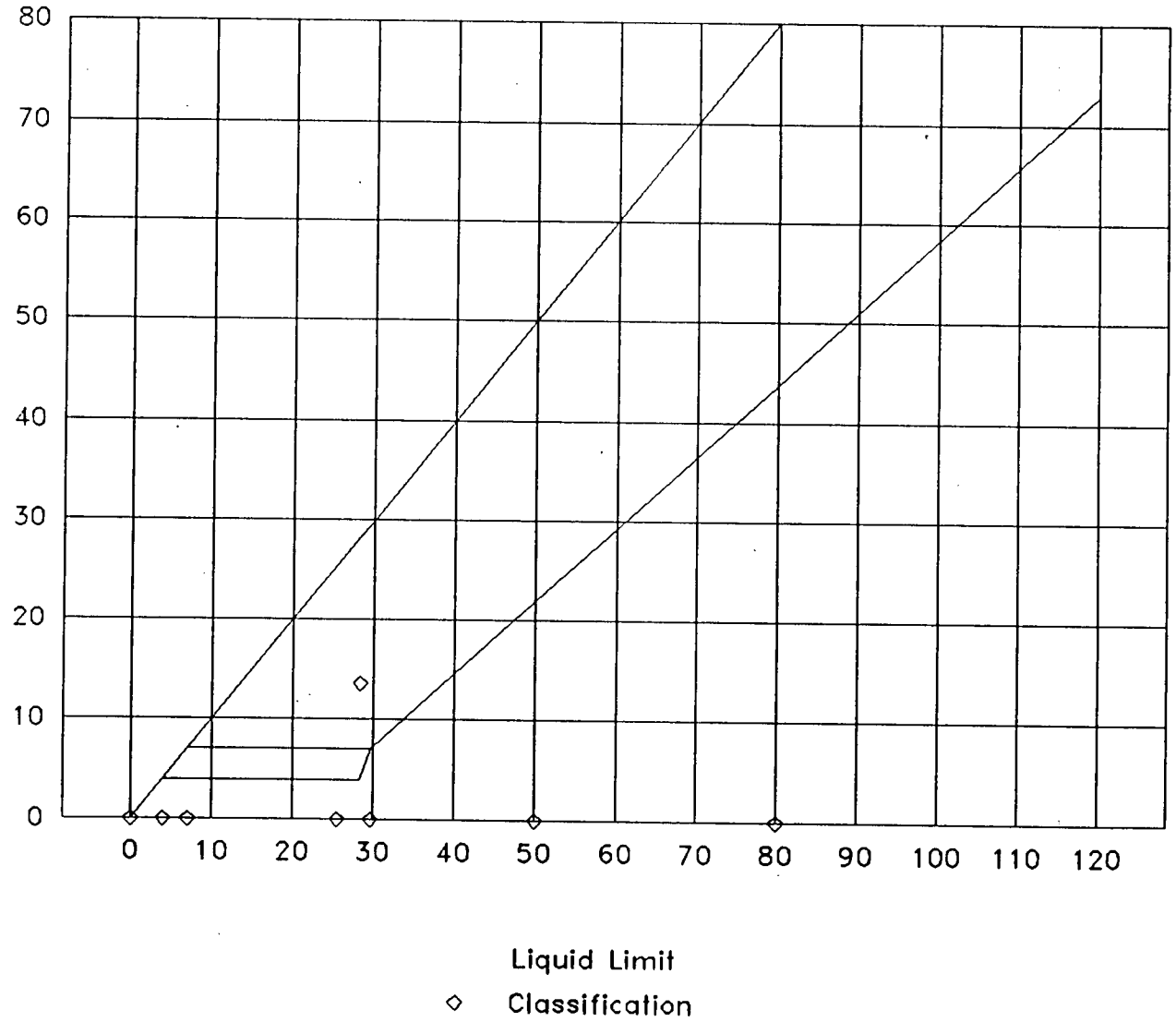
Atterberg Limits, Flow Curve

G2-127, 7.5-9.5', 404751



PLASTICITY CHART

G2-127, 7.5-9.5', 404751



ATTERBERG LIMITS TEST
ASTM D 4318

CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13D
BORING NO.	G2-127	SAMPLED	4-21-95 MG
DEPTH	15.0-17.0'	TEST STARTED	6-9-95 WEB
SAMPLE NO.	404756	TEST FINISHED	6-11-95 WEB
SOIL DESCR.	Fernald		
TEST TYPE	ATTERBERG		

Plastic Limit
Determination

	1	2	3
Dish	B50	37C	2018
Wt Dish & Wet Soil	8.62	10.13	8.69
Wt Dish & Dry Soil	7.68	9.01	7.71
Wt of Moisture	0.94	1.12	0.98
Wt of Dish	1.04	1.03	1.05
Wt of Dry Soil	6.64	7.98	6.66
Moisture Content	14.16	14.04	14.71

Liquid Limit Device Number 0258
Determination

	1	2	3	4	5
Dish	B36	2008	18C	B13	2072
Number of Blows	47	29	23	17	11
Wt Dish & Wet Soil	23.89	24.58	25.31	26.56	21.95
Wt Dish & Dry Soil	19.43	19.90	20.31	21.04	17.14
Wt of Moisture	4.46	4.68	5.00	5.52	4.81
Wt of Dish	1.05	1.06	1.05	1.07	1.05
Wt of Dry Soil	18.38	18.84	19.26	19.97	16.09
Moisture Content	24.27	24.84	25.96	27.64	29.89

Liquid Limit	26.1
Plastic Limit	14.3
Plasticity Index	11.8

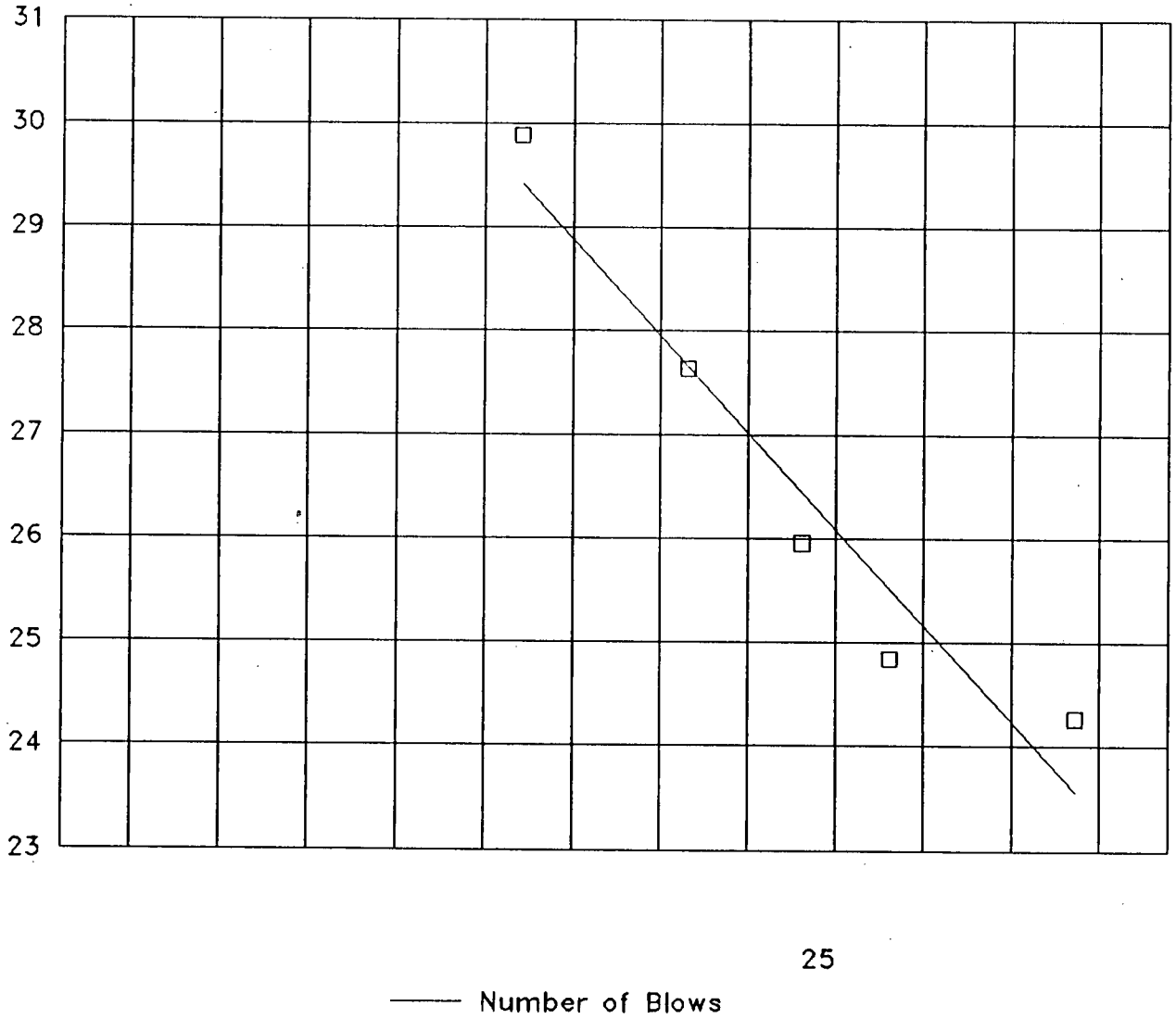
Atterberg Classification CL

Data entry by: NAA Date: 6-12-95
Checked by: BR Date: 6-12-95
FileName: SAG0756

ADVANCED TERRA TESTING, INC.

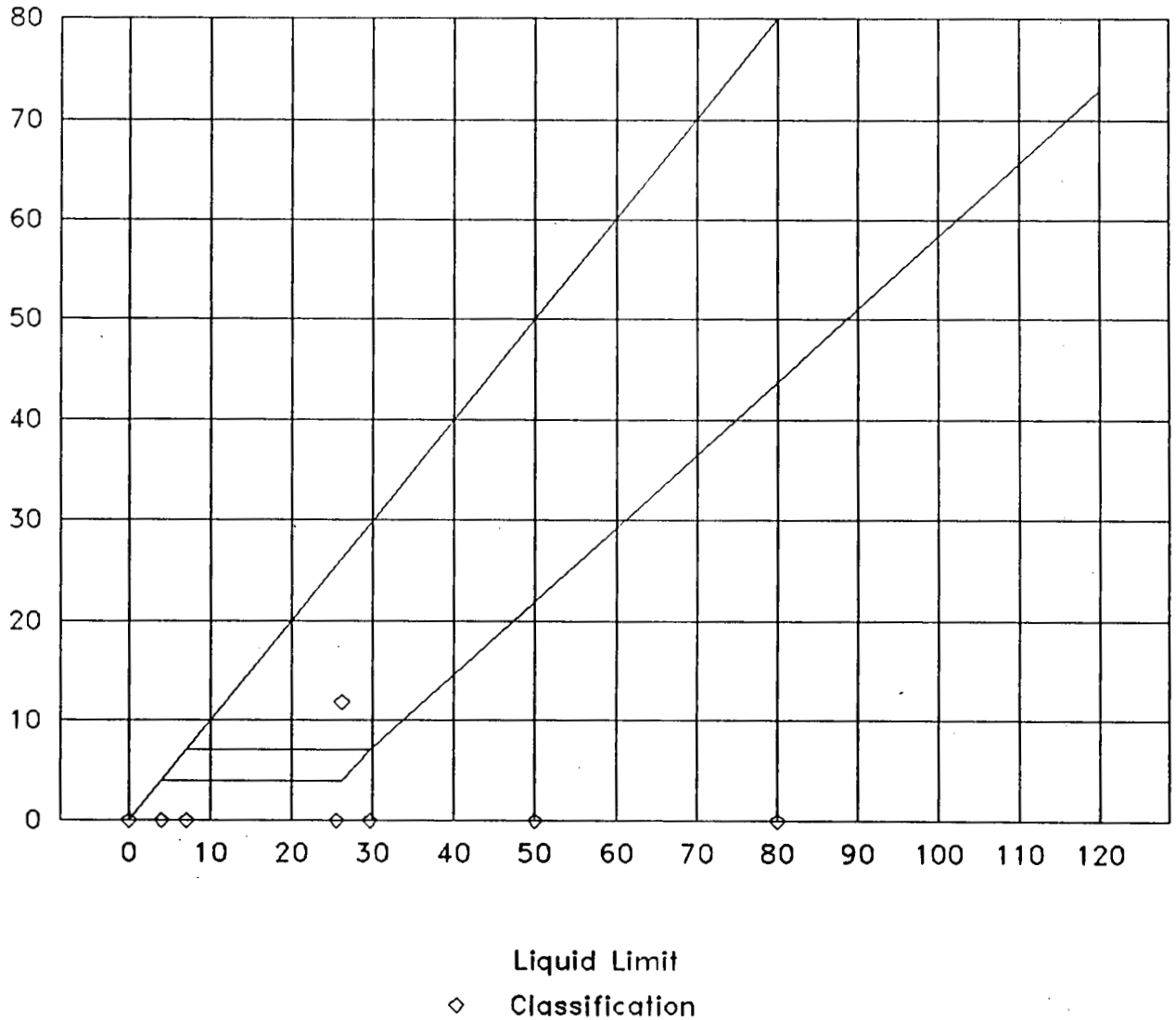
Atterberg Limits, Flow Curve

G2-127, 15.0-17.0', 404756



PLASTICITY CHART

G2-127, 15.0-17.0', 404756



ATTERBERG LIMITS TEST
ASTM D 4318

CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13D
BORING NO.	G2-127	SAMPLED	4-21-95 MG
DEPTH	28.0-30.0'	TEST STARTED	6-07-95
SAMPLE NO.	404763	TEST FINISHED	6-08-95
SOIL DESCR.	Fernald		
TEST TYPE	ATTERBERG		

Plastic Limit Determination

	1	2	3
Dish	B59	2C	2002
Wt Dish & Wet Soil	3.90	4.73	3.81
Wt Dish & Dry Soil	3.59	4.31	3.50
Wt of Moisture	0.31	0.42	0.31
Wt of Dish	1.05	1.04	1.06
Wt of Dry Soil	2.54	3.27	2.44
Moisture Content	12.20	12.84	12.70

Liquid Limit Determination Device Number 0255

	1	2	3	4	5
Dish	B71	2033	2039	B33	2016
Number of Blows	30	26	21	17	11
Wt Dish & Wet Soil	12.70	12.26	12.72	12.57	13.11
Wt Dish & Dry Soil	10.72	10.35	10.70	10.53	10.87
Wt of Moisture	1.98	1.91	2.02	2.04	2.24
Wt of Dish	1.04	1.04	1.06	1.06	1.05
Wt of Dry Soil	9.68	9.31	9.64	9.47	9.82
Moisture Content	20.45	20.52	20.95	21.54	22.81

Liquid Limit	20.7
Plastic Limit	12.6
Plasticity Index	8.1

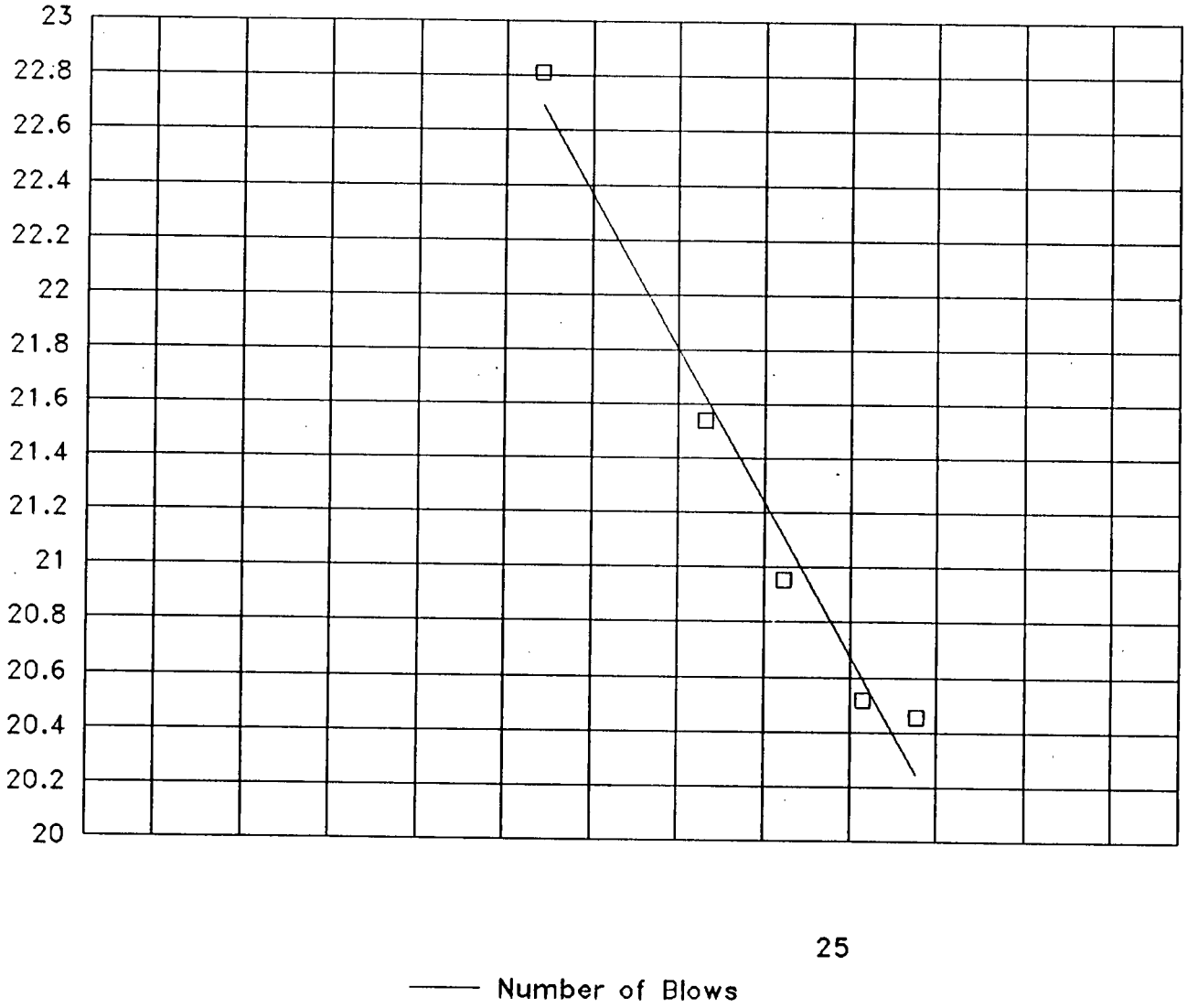
Atterberg Classification CL

Data entry by: CAL Date: 6-08-95
Checked by: DSR Date: 6-9-95
FileName: SAG0763

ADVANCED TERRA TESTING, INC.

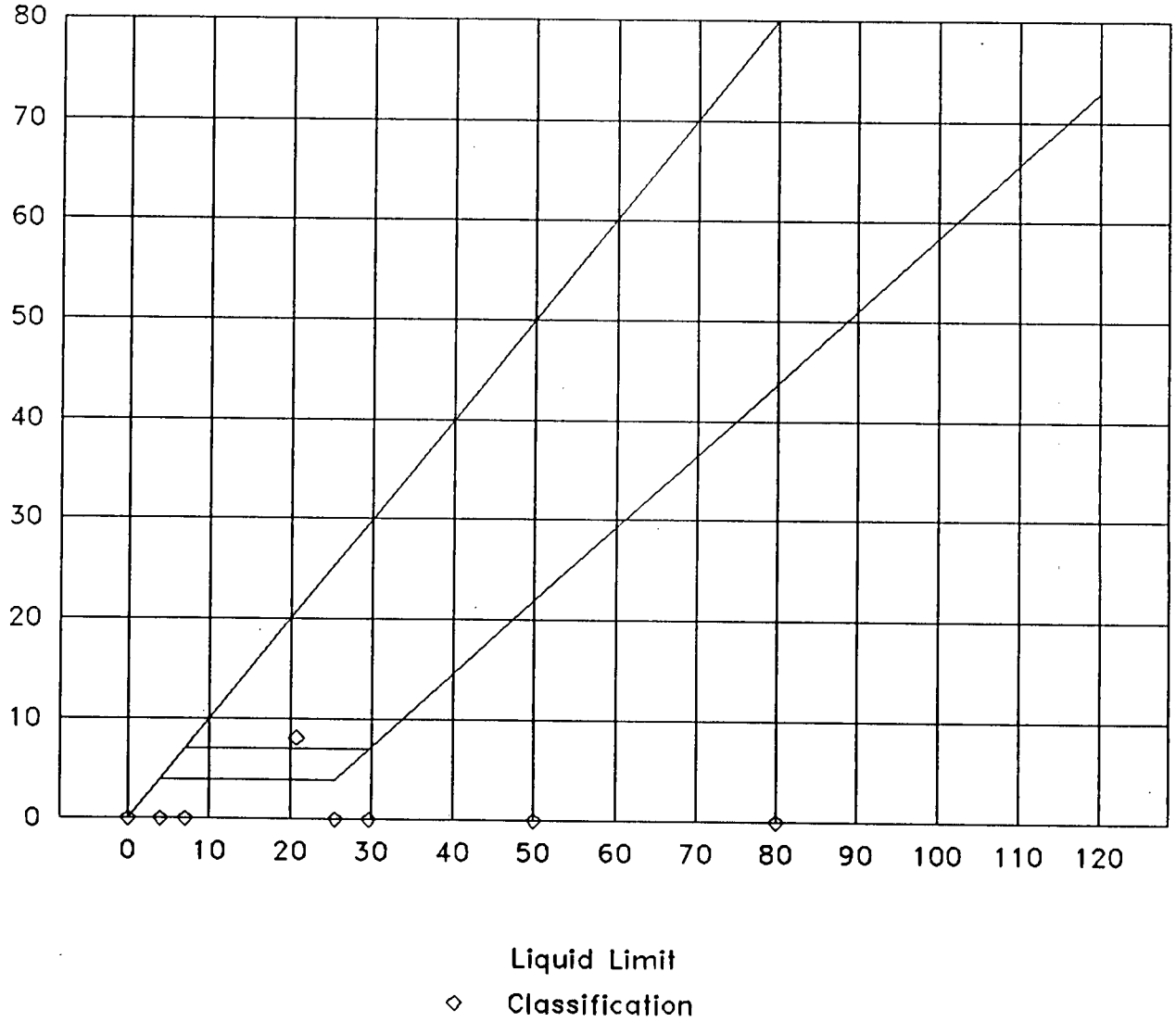
Atterberg Limits, Flow Curve

G2-127, 28.0-30.0', 404763



PLASTICITY CHART

G2-127, 28.0-30.0', 404763



ATTERBERG LIMITS TEST
ASTM D 4318

CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13B
BORING NO.	G2-128	SAMPLED	4-18-95 MM
DEPTH	2.5-4.5'	TEST STARTED	6-07-95
SAMPLE NO.	405040	TEST FINISHED	6-08-95
SOIL DESCR.	Fernald		
TEST TYPE	ATTERBERG		

Plastic Limit
Determination

	1	2	3
Dish	B50	2018	2008
Wt Dish & Wet Soil	6.14	4.52	3.85
Wt Dish & Dry Soil	5.38	4.02	3.43
Wt of Moisture	0.76	0.50	0.42
Wt of Dish	1.04	1.05	1.05
Wt of Dry Soil	4.34	2.97	2.38
Moisture Content	17.51	16.84	17.65

Liquid Limit Device Number 0255
Determination

	1	2	3	4	5
Dish	37C	2072	B36	18C	B13
Number of Blows	49	32	28	20	17
Wt Dish & Wet Soil	10.59	11.08	10.70	11.19	10.18
Wt Dish & Dry Soil	8.06	8.29	7.98	8.31	7.51
Wt of Moisture	2.53	2.79	2.72	2.88	2.67
Wt of Dish	1.03	1.05	1.05	1.05	1.06
Wt of Dry Soil	7.03	7.24	6.93	7.26	6.45
Moisture Content	35.99	38.54	39.25	39.67	41.40

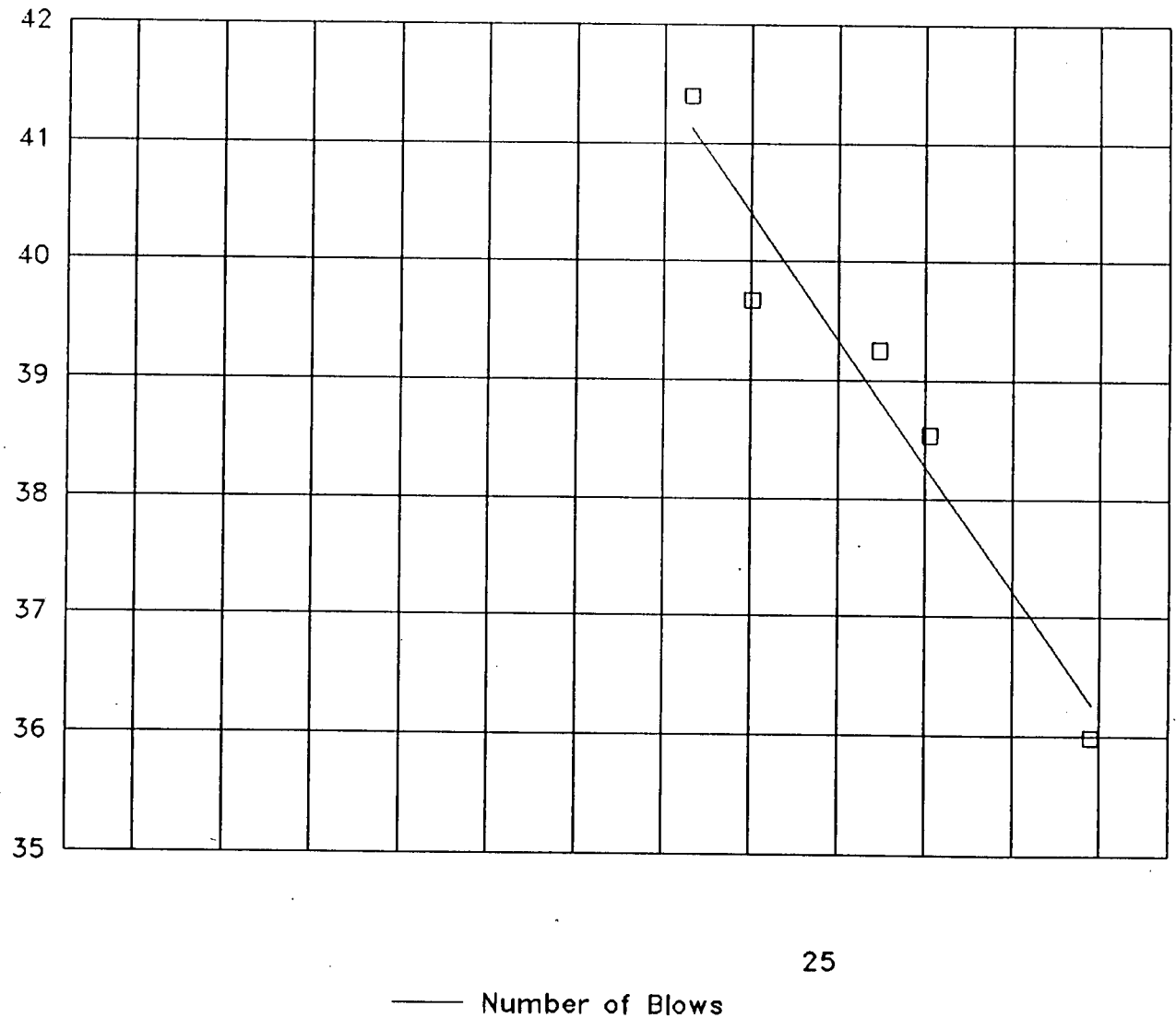
Liquid Limit	39.4
Plastic Limit	17.3
Plasticity Index	22.0

Atterberg Classification CL

Data entry by: CAL Date: 6-08-95
Checked by: [illegible] Date: 6-9-95
FileName: SAG05040 ADVANCED TERRA TESTING, INC.

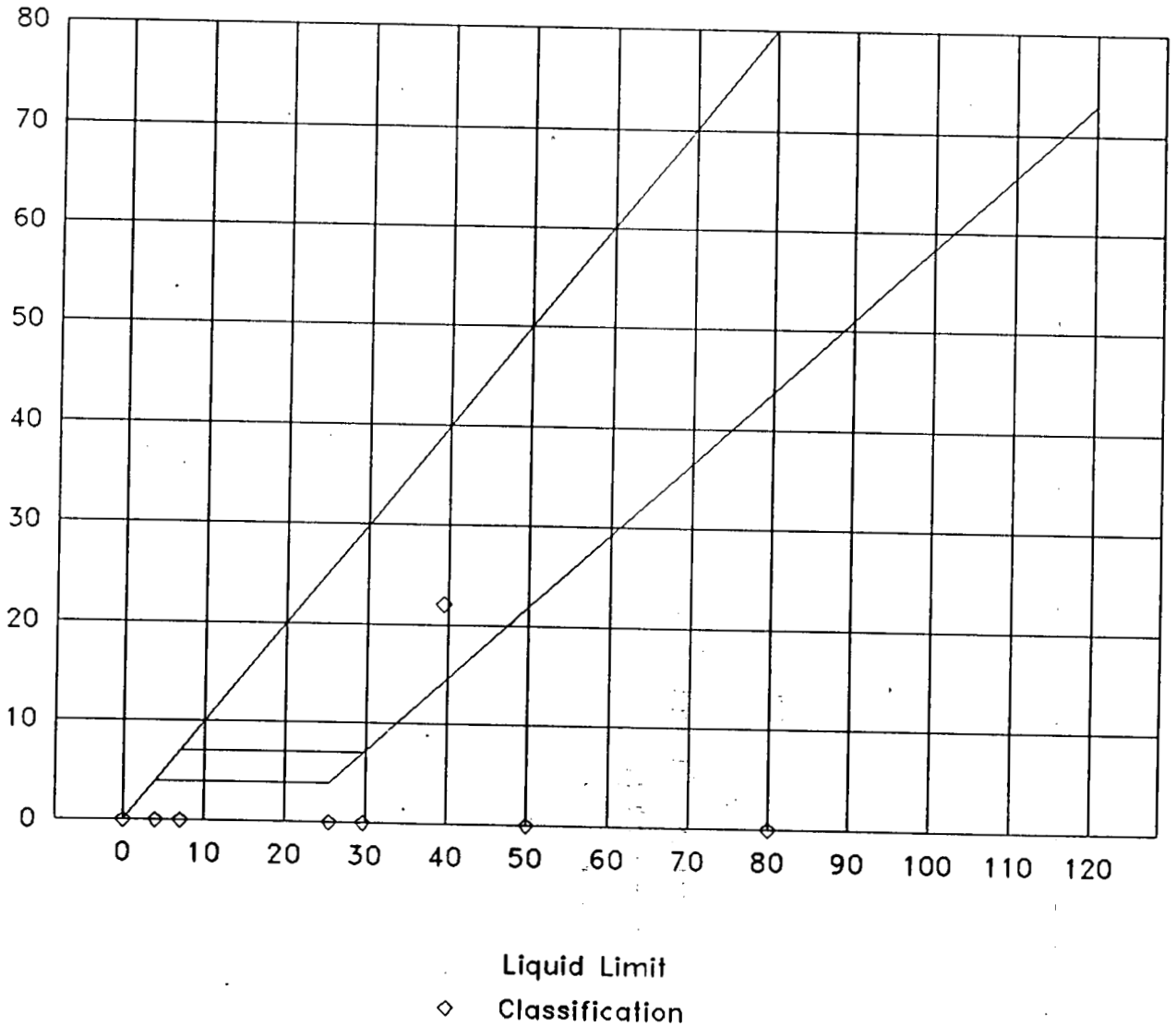
Atterberg Limits, Flow Curve

G2-128, 2.5-4.5', 405040



PLASTICITY CHART

G2-128, 2.5-4.5', 405040



ATTERBERG LIMITS TEST
ASTM D 4318

CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13B

BORING NO.	G2-128	SAMPLED	4-18-95 MM
DEPTH	7.5-9.5'	TEST STARTED	6-07-95
SAMPLE NO.	405043	TEST FINISHED	6-08-95
SOIL DESCR.	Fernald		
TEST TYPE	ATTERBERG		

Plastic Limit
Determination

	1	2	3
Dish	B45	29C	B5
Wt Dish & Wet Soil	5.45	5.28	6.98
Wt Dish & Dry Soil	4.85	4.72	6.18
Wt of Moisture	0.60	0.56	0.80
Wt of Dish	1.05	1.05	1.05
Wt of Dry Soil	3.80	3.67	5.13
Moisture Content	15.79	15.26	15.59

Liquid Limit Device Number 0255
Determination

	1	2	3	4	5
Dish	35C	B57	4110	4101	2061
Number of Blows	46	38	25	19	13
Wt Dish & Wet Soil	12.08	11.28	10.87	11.05	9.33
Wt Dish & Dry Soil	9.81	9.12	8.75	8.83	7.42
Wt of Moisture	2.27	2.16	2.12	2.22	1.91
Wt of Dish	1.05	1.05	1.06	1.05	1.02
Wt of Dry Soil	8.76	8.07	7.69	7.78	6.40
Moisture Content	25.91	26.77	27.57	28.53	29.84

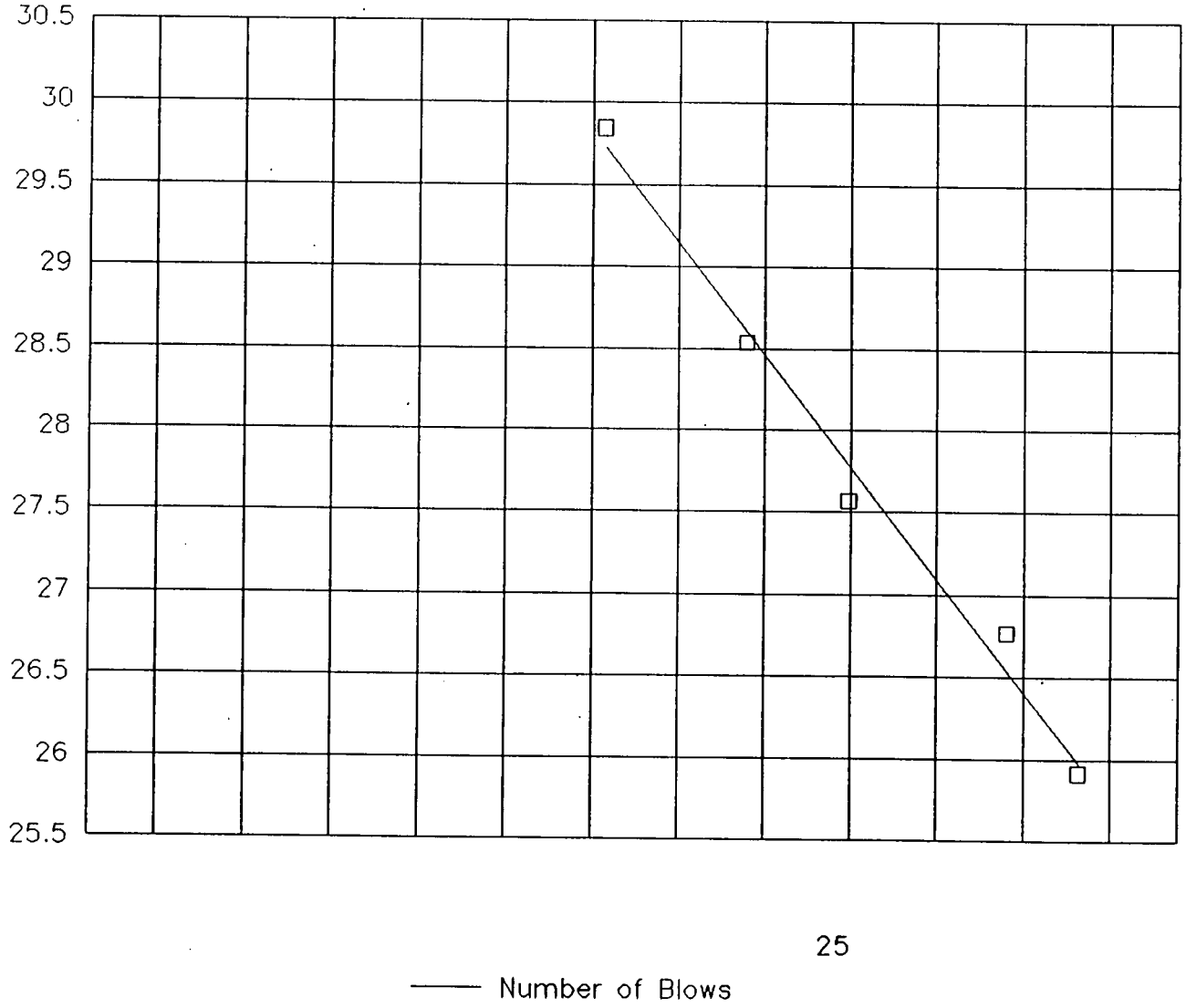
Liquid Limit	27.8
Plastic Limit	15.5
Plasticity Index	12.2

Atterberg Classification CL

Data entry by: CAL Date: 6-09-95
Checked by: DZ Date: 6-9-95
FileName: SAG05043 ADVANCED TERRA TESTING, INC.

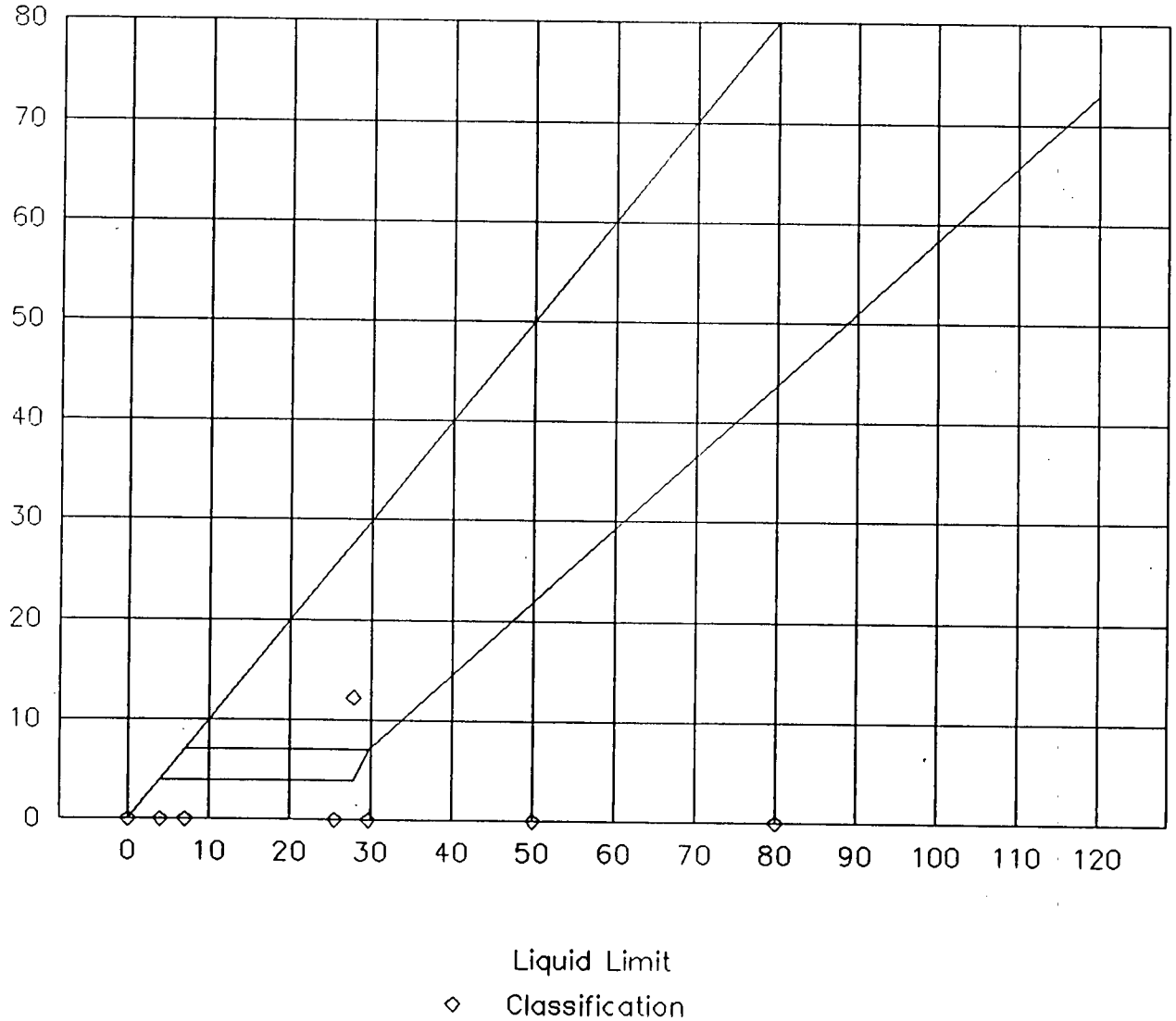
Atterberg Limits, Flow Curve

G2-128, 7.5-9.5', 405043



PLASTICITY CHART

G2-128, 7.5-9.5', 405043



118

000162

474

ATTERBERG LIMITS TEST
ASTM D 4318

CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13B
BORING NO.	G2-128	SAMPLED	4-19-95 MM
DEPTH	12.5-14.5'	TEST STARTED	6-9-95 WEB
SAMPLE NO.	405046	TEST FINISHED	6-11-95 WEB
SOIL DESCR.	Fernald		
TEST TYPE	ATTERBERG		

Plastic Limit Determination

	1	2	3
Dish	32C	B38	2028
Wt Dish & Wet Soil	6.49	7.26	9.53
Wt Dish & Dry Soil	5.76	6.44	8.37
Wt of Moisture	0.73	0.82	1.16
Wt of Dish	1.05	1.06	1.05
Wt of Dry Soil	4.71	5.38	7.32
Moisture Content	15.50	15.24	15.85

Liquid Limit Determination — Device Number 0258

	1	2	3	4	5
Dish	4001	2016	2002	B33	2C
Number of Blows	45	34	23	16	14
Wt Dish & Wet Soil	22.57	26.62	24.56	24.52	30.14
Wt Dish & Dry Soil	18.11	21.15	19.40	19.14	23.27
Wt of Moisture	4.46	5.47	5.16	5.38	6.87
Wt of Dish	1.04	1.06	1.06	1.05	1.04
Wt of Dry Soil	17.07	20.09	18.34	18.09	22.23
Moisture Content	26.13	27.23	28.14	29.74	30.90

Liquid Limit	28.3
Plastic Limit	15.5
Plasticity Index	12.7

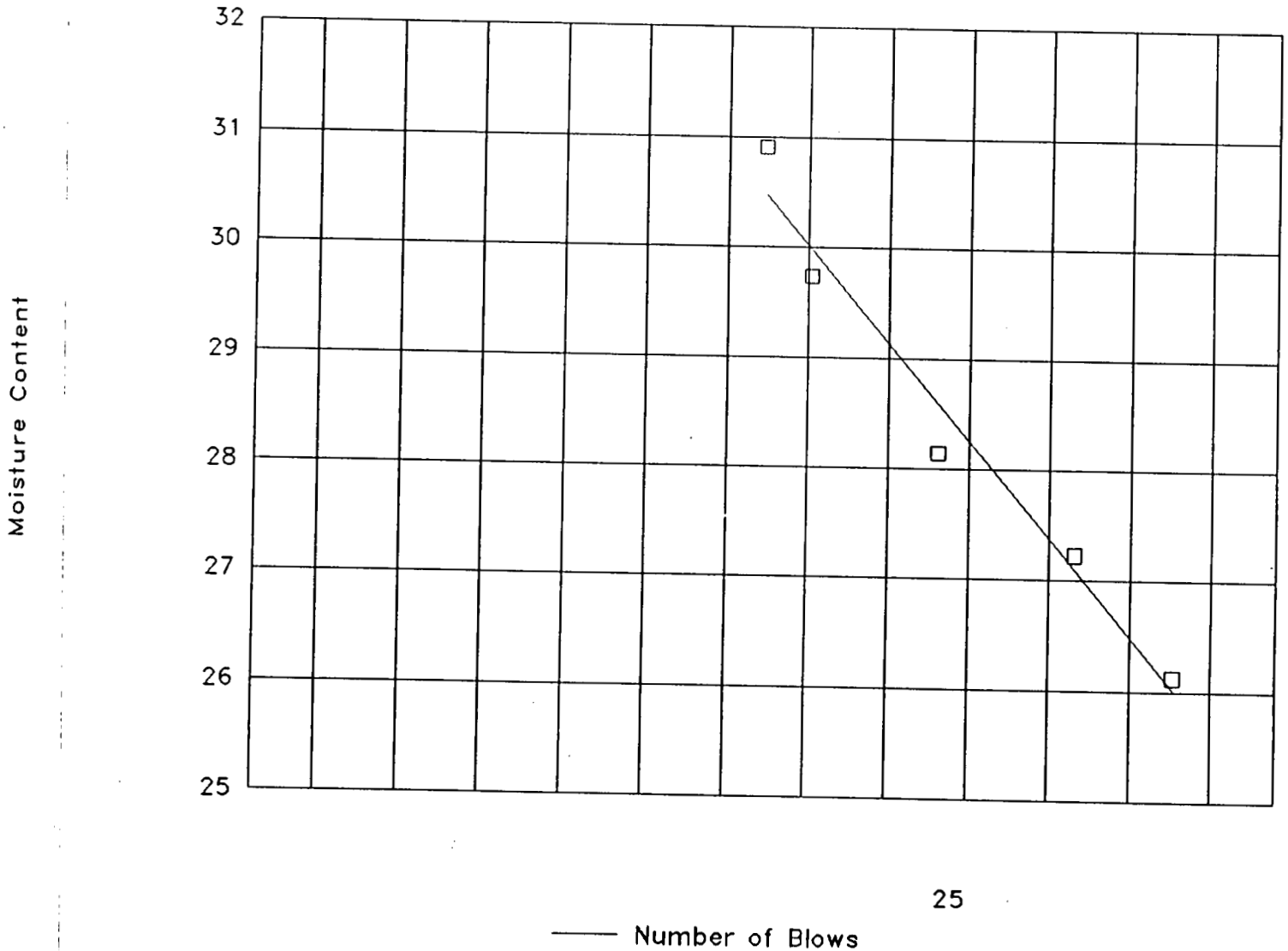
Atterberg Classification CL

Data entry by: NAA Date: 6-12-95
Checked by: [illegible] Date: 6-12-95
FileName: SAG05046

ADVANCED TERRA TESTING, INC.

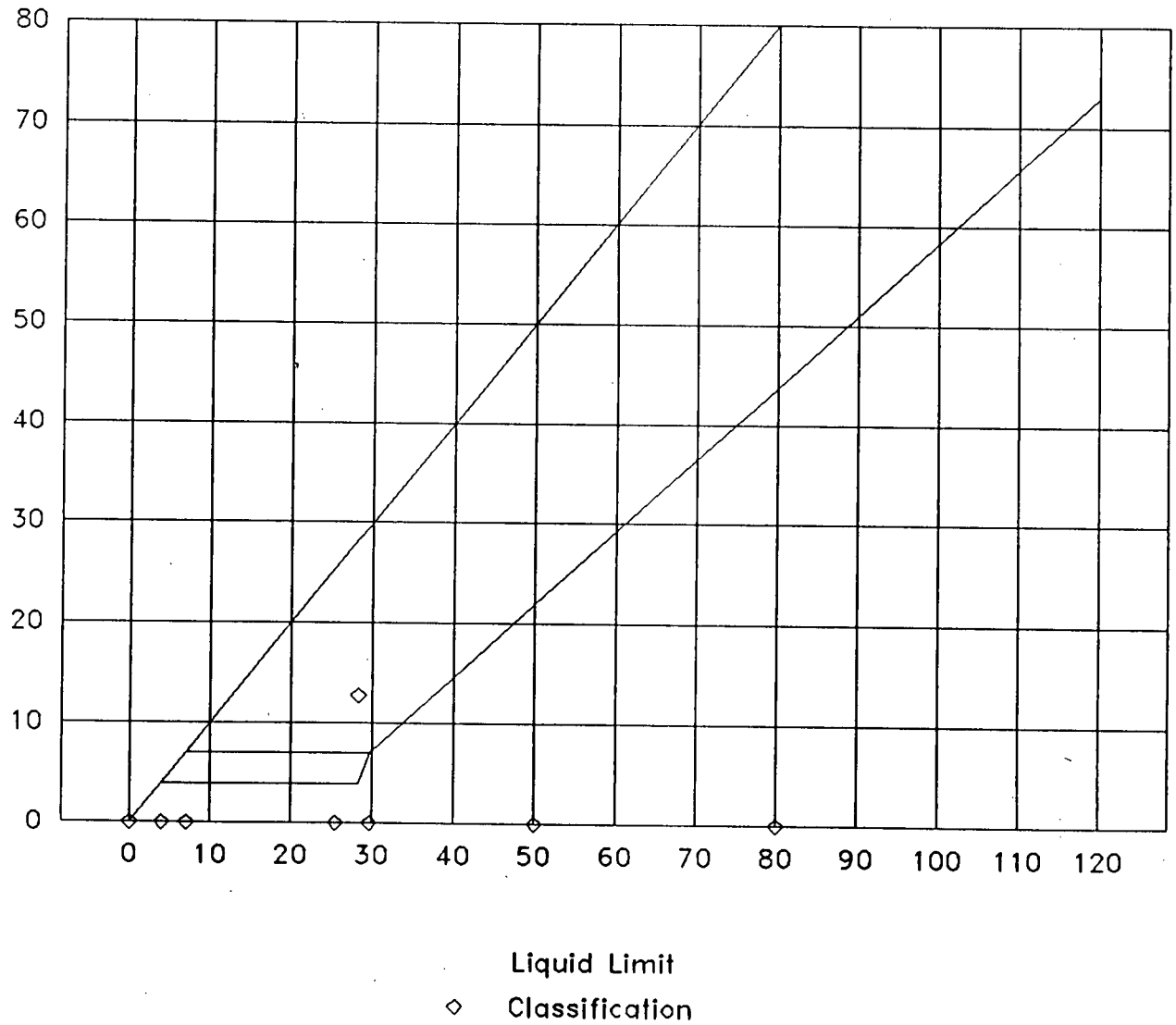
Atterberg Limits, Flow Curve

G2-128, 12.5-14.5', 405046



PLASTICITY CHART

G2-128, 12.5-14.5', 405046



121

000165

474

ATTERBERG LIMITS TEST
ASTM D 4318

CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13B
BORING NO.	G2-128	SAMPLED	4-19-94 MM
DEPTH	17.5-19.5'	TEST STARTED	6-09-95 CAL
SAMPLE NO.	405049	TEST FINISHED	6-12-95 CAL
SOIL DESCR.	Fernald		
TEST TYPE	ATTERBERG		

Plastic Limit
Determination

	1	2	3
Dish	B28	B73	2038
Wt Dish & Wet Soil	6.92	5.07	6.72
Wt Dish & Dry Soil	6.23	4.59	6.06
Wt of Moisture	0.69	0.48	0.66
Wt of Dish	1.05	1.04	1.05
Wt of Dry Soil	5.18	3.55	5.01
Moisture Content	13.32	13.52	13.17

Liquid Limit Device Number 0258
Determination

	1	2	3	4	5
Dish	4019	11C	31C	B67	B63
Number of Blows	38	34	23	16	26
Wt Dish & Wet Soil	13.97	12.04	10.74	11.94	11.78
Wt Dish & Dry Soil	11.68	10.07	8.93	9.86	9.84
Wt of Moisture	2.29	1.97	1.81	2.08	1.94
Wt of Dish	1.04	1.05	1.06	1.03	1.04
Wt of Dry Soil	10.64	9.02	7.87	8.83	8.80
Moisture Content	21.52	21.84	23.00	23.56	22.05

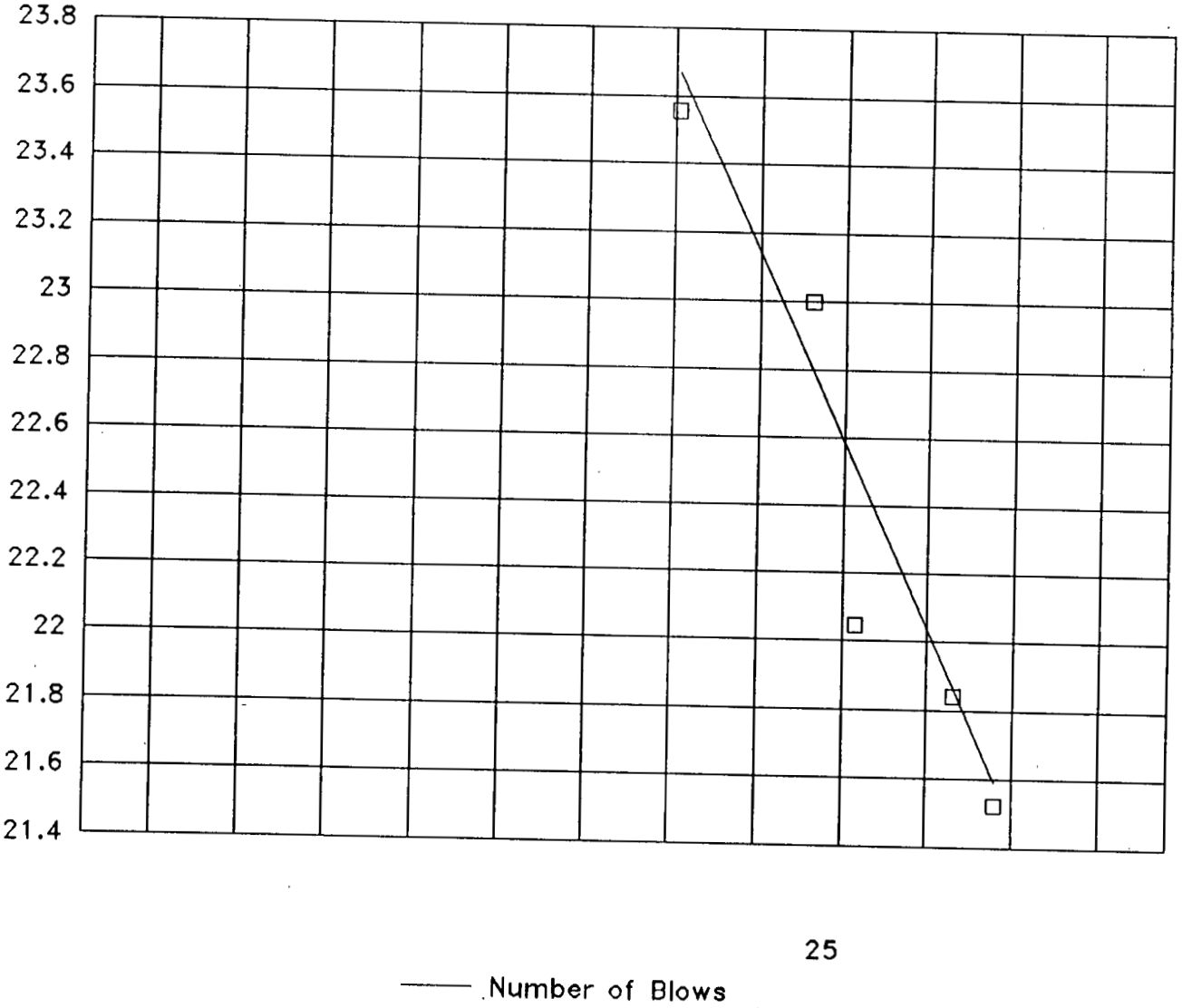
Liquid Limit	22.6
Plastic Limit	13.3
Plasticity Index	9.3

Atterberg Classification CL

Data entry by: CAL Date: 6-12-95
Checked by: BR Date: 6-12-95
FileName: SAG05049 ADVANCED TERRA TESTING, INC.

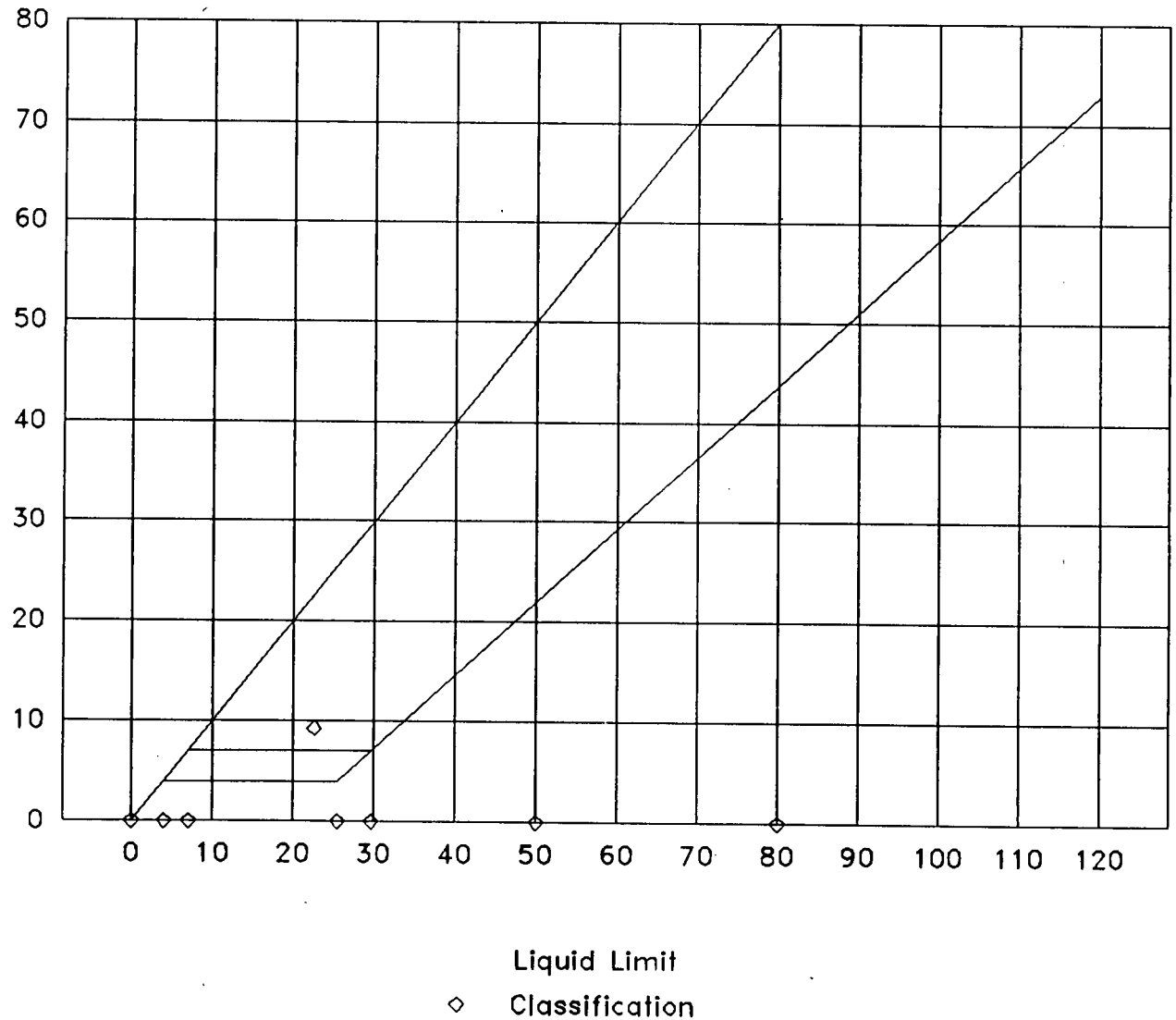
Atterberg Limits, Flow Curve

G2-128, 17.5-19.5', 405049



PLASTICITY CHART

G2-128, 17.5-19.5', 405049



ATTERBERG LIMITS TEST
ASTM D 4318

CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13B
BORING NO.	G2-129	SAMPLED	4-18-95 MG
DEPTH	5.0-7.5'	TEST STARTED	6-14-95 WEB
SAMPLE NO.	404729	TEST FINISHED	6-15-95 WEB
SOIL DESCR.	Fernald		
TEST TYPE	ATTERBERG		

Plastic Limit
Determination

	1	2	3
Dish	2009	B30	58C
Wt Dish & Wet Soil	9.19	11.17	10.02
Wt Dish & Dry Soil	7.92	9.57	8.62
Wt of Moisture	1.27	1.60	1.40
Wt of Dish	1.04	1.04	1.06
Wt of Dry Soil	6.88	8.53	7.56
Moisture Content	18.46	18.76	18.52

Liquid Limit Device Number 0258
Determination

	1	2	3	4
Dish	2063	B21	B39	15G
Number of Blows	27	20	16	10
Wt Dish & Wet Soil	24.86	23.03	23.60	27.03
Wt Dish & Dry Soil	19.01	17.44	17.73	19.87
Wt of Moisture	5.85	5.59	5.87	7.16
Wt of Dish	1.04	1.04	1.04	1.04
Wt of Dry Soil	17.97	16.40	16.69	18.83
Moisture Content	32.55	34.09	35.17	38.02

Liquid Limit	32.9
Plastic Limit	18.6
Plasticity Index	14.3

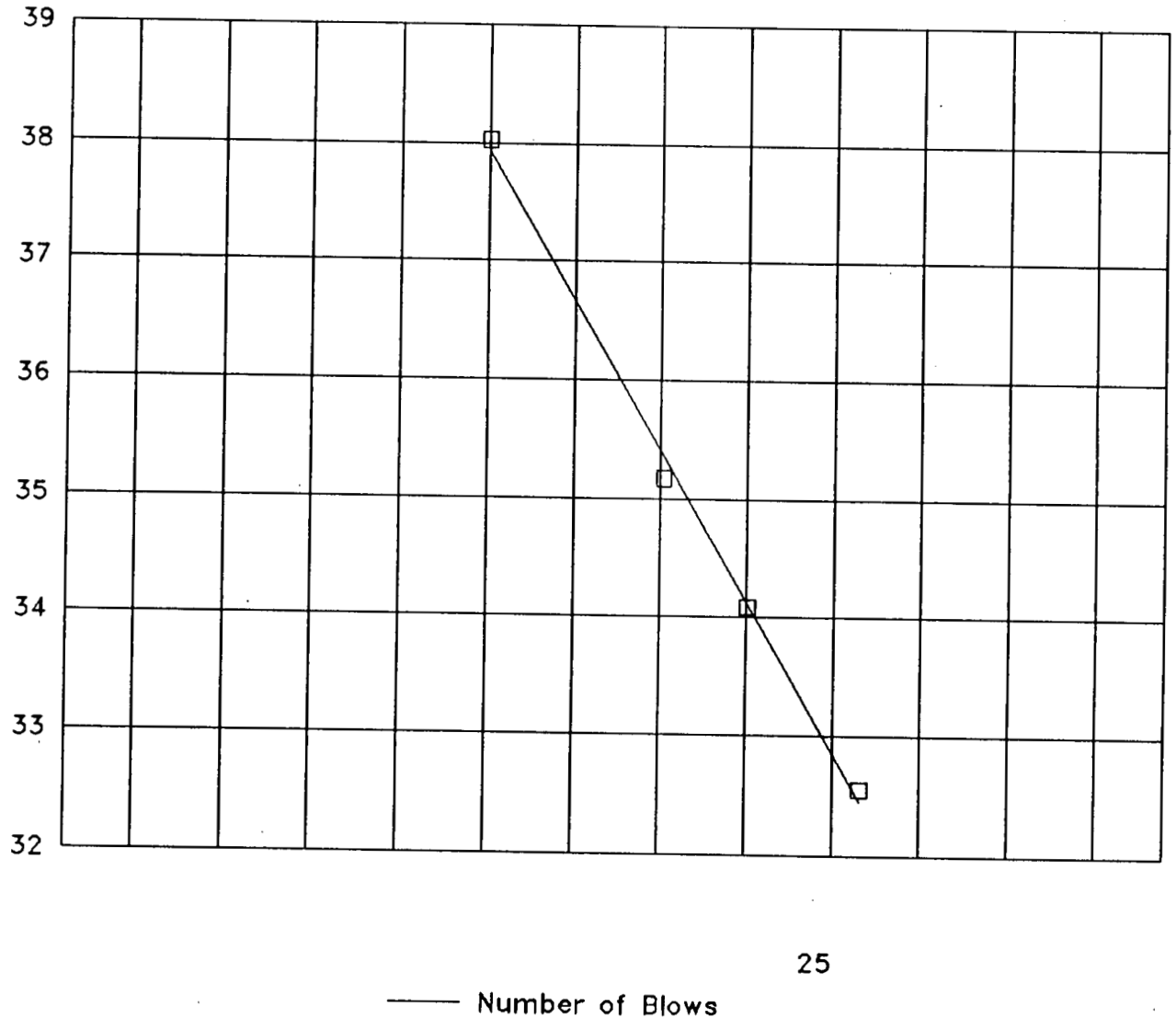
Atterberg Classification CL

Data entry by: NAA Date: 6-15-95
Checked by: WEB Date: 6-20-95
FileName: SAG0729

ADVANCED TERRA TESTING, INC.

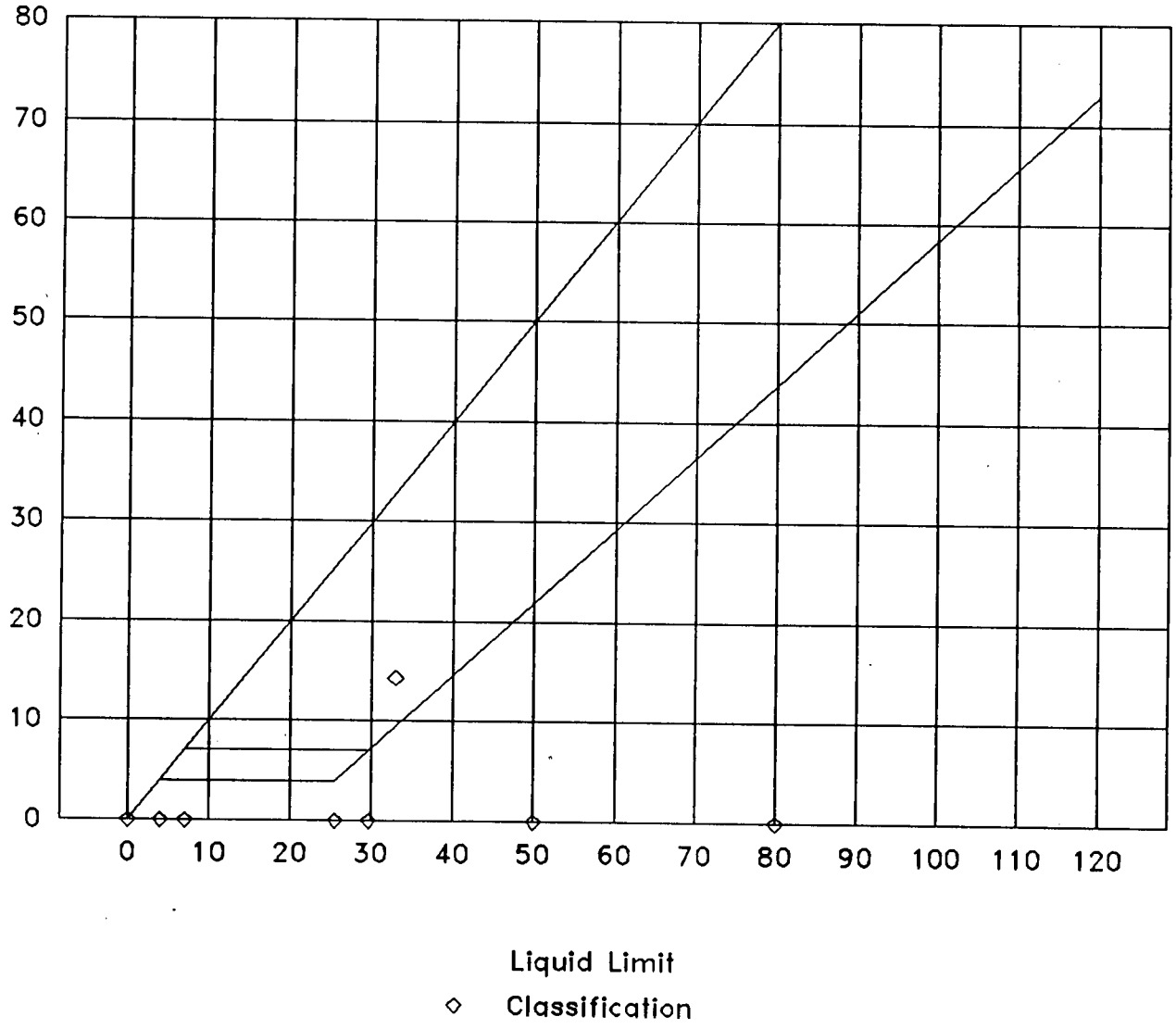
Atterberg Limits, Flow Curve

G2-129, 5.0-7.5', 404729



PLASTICITY CHART

G2-129, 5.0-7.5', 404729



ATTERBERG LIMITS TEST
ASTM D 4318

CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13B
BORING NO.	G2-129	SAMPLED	4-19-95 MG
DEPTH	10.0-12.5'	TEST STARTED	6-14-95 WEB
SAMPLE NO.	404732	TEST FINISHED	6-15-95 WEB
SOIL DESCR.	Fernald		
TEST TYPE	ATTERBERG		

Plastic Limit
Determination

	1	2	3
Dish	2073	B61	2027
Wt Dish & Wet Soil	7.62	8.86	10.25
Wt Dish & Dry Soil	6.76	7.82	9.10
Wt of Moisture	0.86	1.04	1.15
Wt of Dish	1.04	1.06	1.06
Wt of Dry Soil	5.72	6.76	8.04
Moisture Content	15.03	15.38	14.30

Liquid Limit Device Number 0258
Determination

	1	2	3	4	5
Dish	2059	48C	B37	30C	B20
Number of Blows	10	17	20	31	36
Wt Dish & Wet Soil	29.15	27.33	29.32	25.80	19.73
Wt Dish & Dry Soil	22.95	21.76	23.47	21.21	16.35
Wt of Moisture	6.20	5.57	5.85	4.59	3.38
Wt of Dish	1.05	1.05	1.03	1.06	1.05
Wt of Dry Soil	21.90	20.71	22.44	20.15	15.30
Moisture Content	28.31	26.90	26.07	22.78	22.09

Liquid Limit	24.3
Plastic Limit	14.9
Plasticity Index	9.4

Atterberg Classification CL

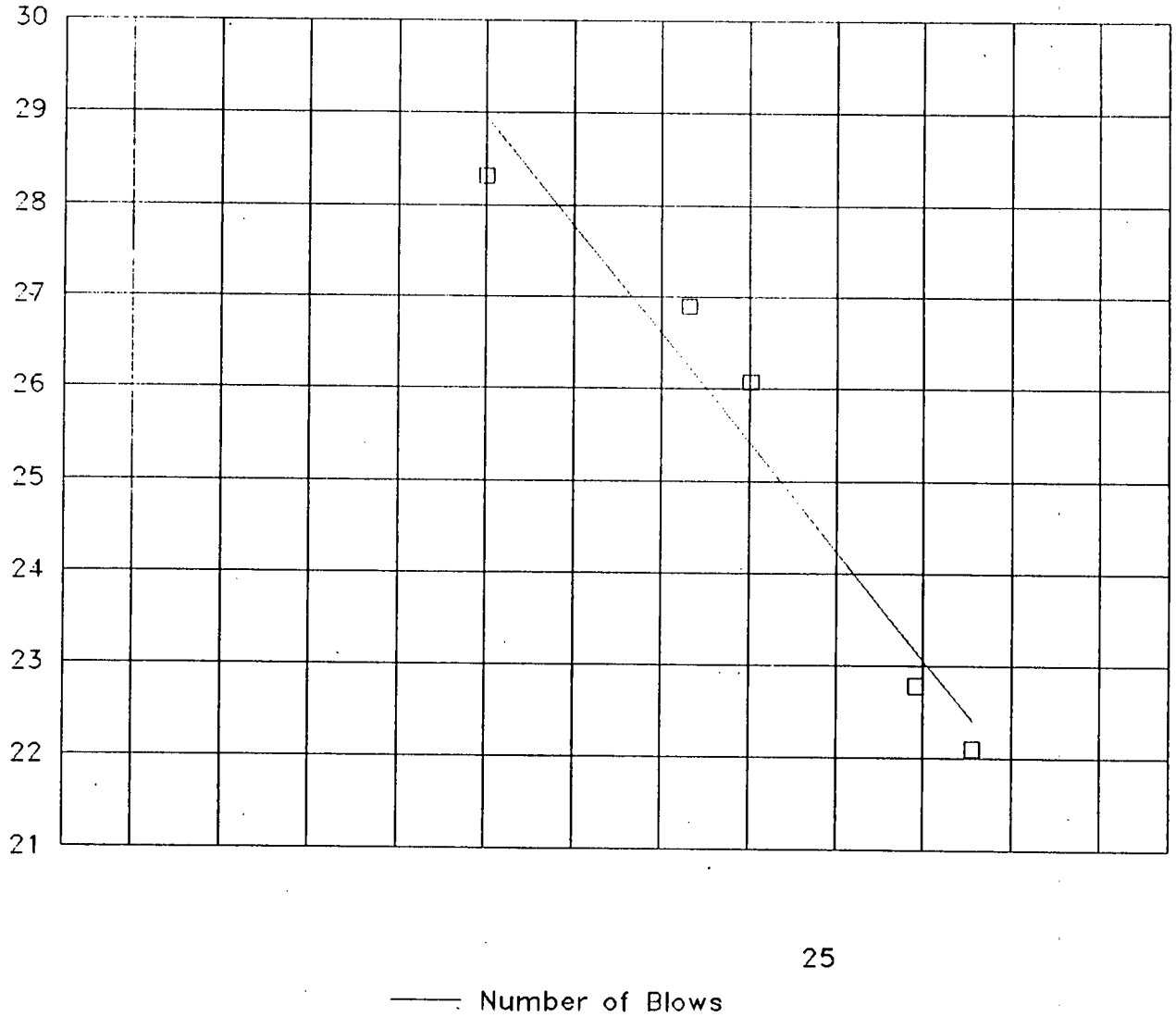
Data entry by: NAA Date: 6-15-95
Checked by:_____ Date:_____
FileName: SAG0732

ADVANCED TERRA TESTING, INC.

Revised as of 8/21/95

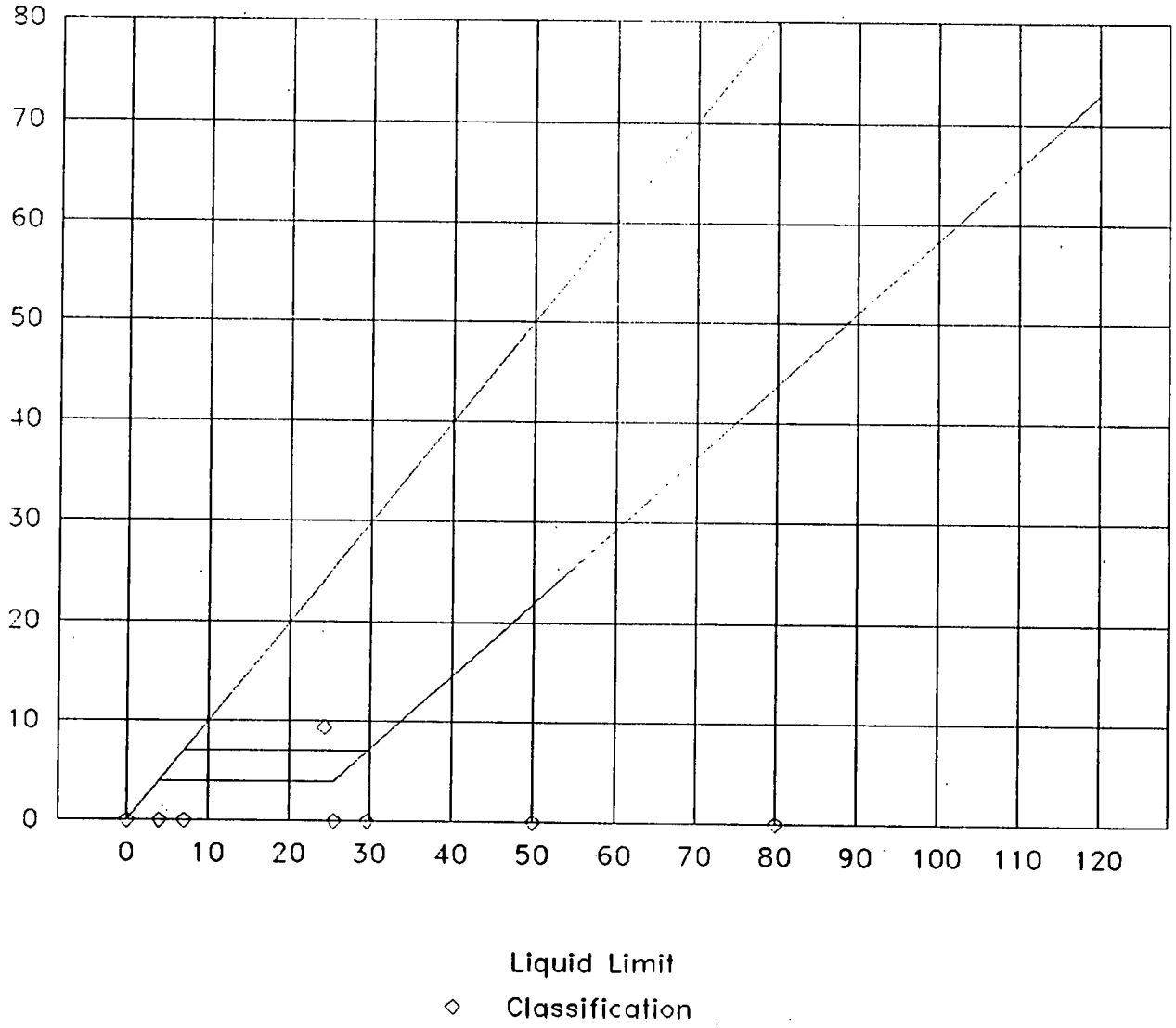
Atterberg Limits, Flow Curve

G2-129, 10.0-12.5', 404732



PLASTICITY CHART

G2-129, 10.0-12.5', 404732



ATTERBERG LIMITS TEST
ASTM D 4318

CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13B
BORING NO.	G2-129	SAMPLED	4-19-95 MG
DEPTH	24.0-26.5'	TEST STARTED	6-8-95 WEB
SAMPLE NO.	404740	TEST FINISHED	6-9-95 WEB
SOIL DESCR.	Fernald		
TEST TYPE	ATTERBERG		

Plastic Limit
Determination

	1	2	3
Dish	2019	15C	2050
Wt Dish & Wet Soil	6.74	7.17	9.42
Wt Dish & Dry Soil	6.08	6.46	8.49
Wt of Moisture	0.66	0.71	0.93
Wt of Dish	1.07	1.06	1.05
Wt of Dry Soil	5.01	5.40	7.44
Moisture Content	13.17	13.15	12.50

Liquid Limit Device Number 0258
Determination

	1	2	3	4	5
Dish	B26	34CX	2064	12C	2036
Number of Blows	24	26	32	19	11
Wt Dish & Wet Soil	28.47	26.70	24.95	26.45	29.56
Wt Dish & Dry Soil	23.38	22.03	20.68	21.68	23.62
Wt of Moisture	5.09	4.67	4.27	4.77	5.94
Wt of Dish	1.04	1.04	1.05	1.06	1.06
Wt of Dry Soil	22.34	20.99	19.63	20.62	22.56
Moisture Content	22.78	22.25	21.75	23.13	26.33

Liquid Limit	22.5
Plastic Limit	12.9
Plasticity Index	9.6

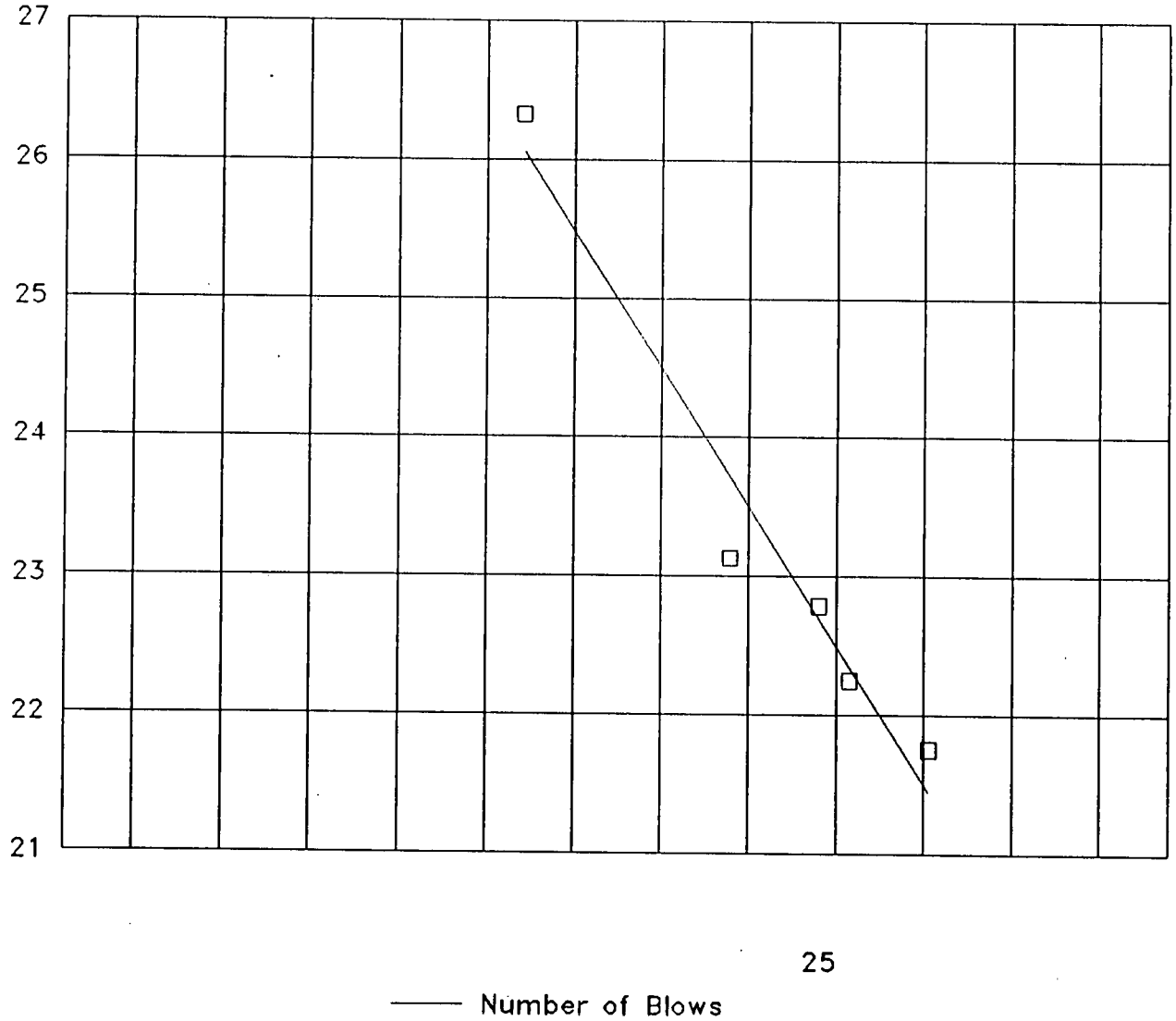
Atterberg Classification CL

Data entry by: NAA Date: 6-9-95
Checked by: [illegible] Date: 6-9-95
FileName: SAG0740

ADVANCED TERRA TESTING, INC.

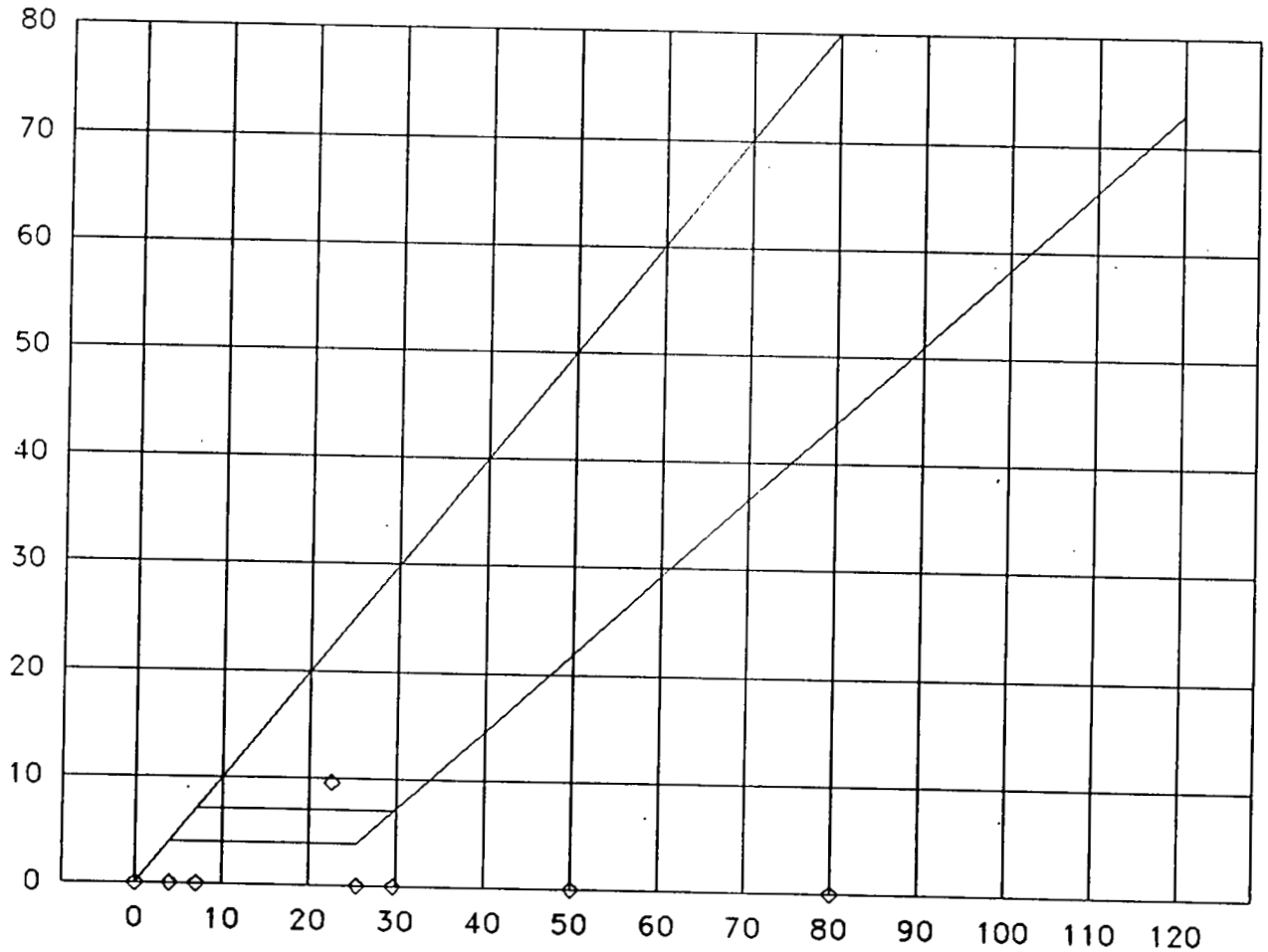
Atterberg Limits, Flow Curve

G2-129, 24.0-26.5', 404740



PLASTICITY CHART

G2-129, 24.0-26.5', 404740



Liquid Limit

◇ Classification

ATTERBERG LIMITS TEST
ASTM D 4318

CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13H
BORING NO.	G2-130	SAMPLED	4-25-95 MM
DEPTH	5.0-7.0'	TEST STARTED	6-16-95 CAL
SAMPLE NO.	405075	TEST FINISHED	6-17-95 CAL
SOIL DESCR.	Fernald		
TEST TYPE	ATTERBERG		

Plastic Limit Determination

	1	2	3
Dish	26C	4110	2016
Wt Dish & Wet Soil	14.17	12.96	12.96
Wt Dish & Dry Soil	12.60	11.51	11.55
Wt of Moisture	1.57	1.45	1.41
Wt of Dish	1.08	1.07	1.06
Wt of Dry Soil	11.52	10.44	10.49
Moisture Content	13.63	13.89	13.44

Liquid Limit Determination — Device Number 0258

	1	2	3	4	5
Dish	2032	B55	B47	B45	34C
Number of Blows	49	39	32	19	16
Wt Dish & Wet Soil	12.67	14.90	13.88	11.26	13.32
Wt Dish & Dry Soil	10.62	12.37	11.51	9.24	10.85
Wt of Moisture	2.05	2.53	2.37	2.02	2.47
Wt of Dish	1.05	1.05	1.07	1.05	1.12
Wt of Dry Soil	9.57	11.32	10.44	8.19	9.73
Moisture Content	21.42	22.35	22.70	24.66	25.39

Liquid Limit	23.8
Plastic Limit	13.7
Plasticity Index	10.1

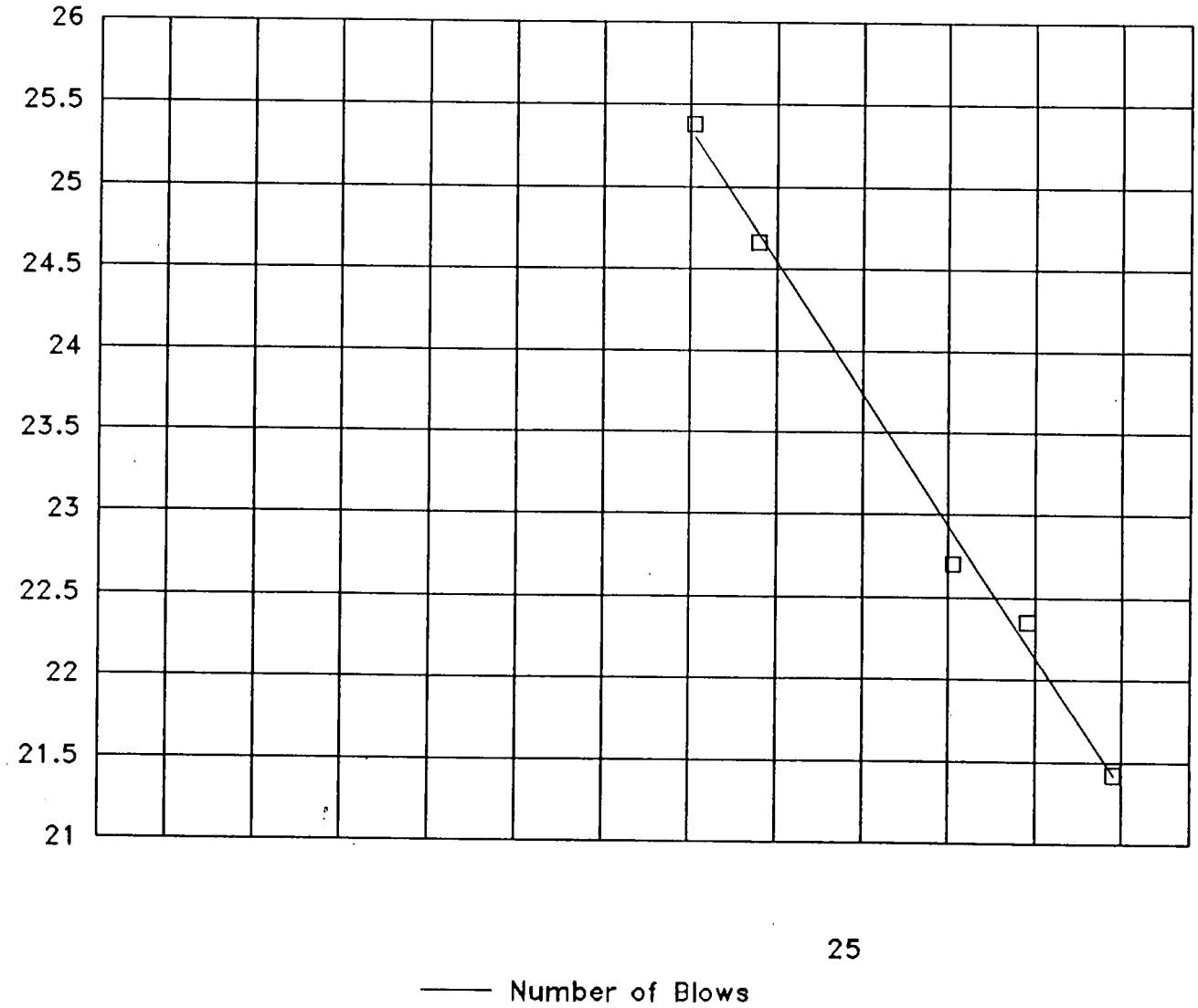
Atterberg Classification CL

Data entry by: NAA Date: 6-19-95
Checked by: WEB Date: 6-20-95
FileName: SAG05075

ADVANCED TERRA TESTING, INC.

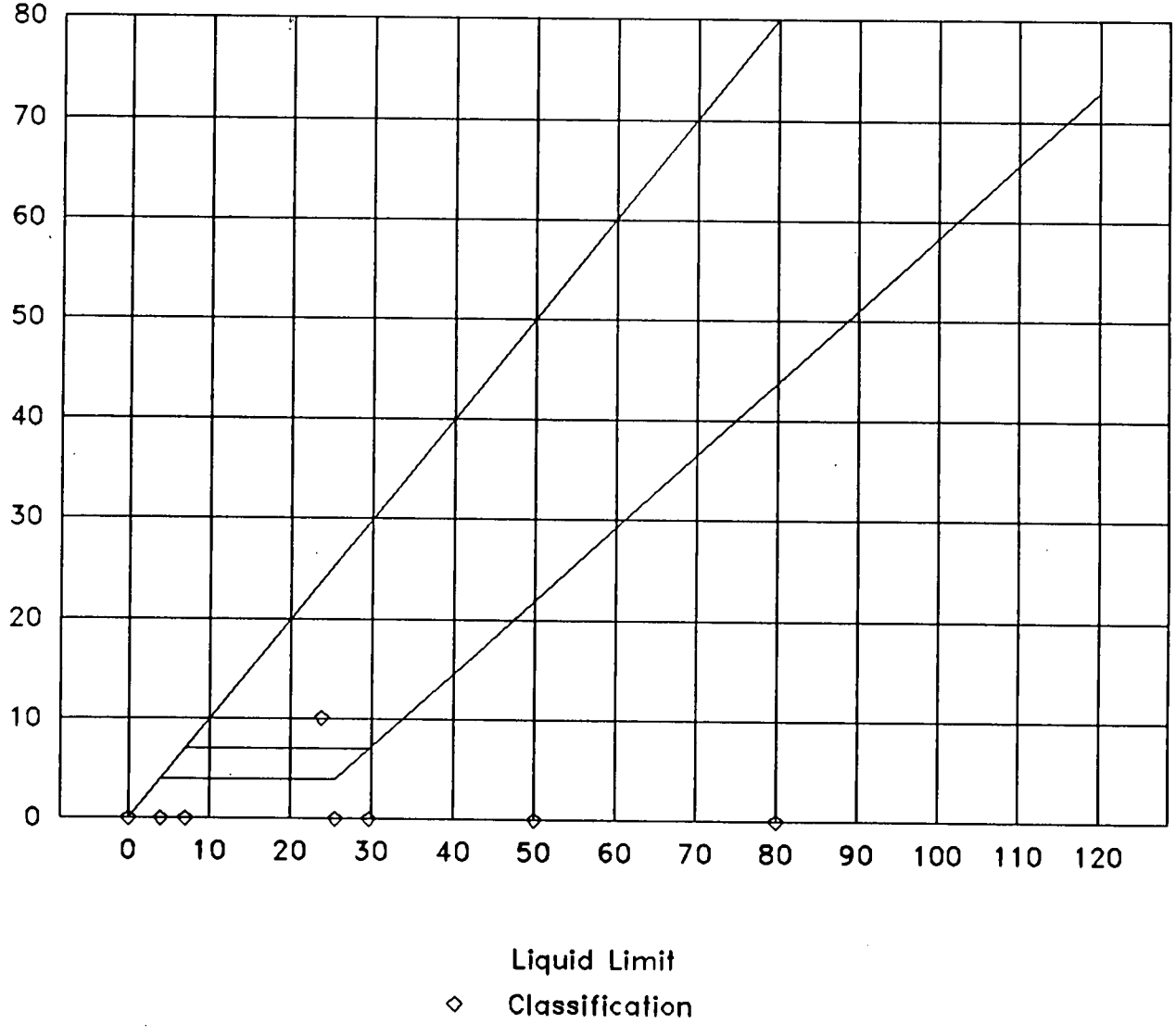
Atterberg Limits, Flow Curve

G2-130, 5.0-7.0', 405075



PLASTICITY CHART

G2-130, 5.0-7.0', 405075



ATTERBERG LIMITS TEST

ASTM D 4318

CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13H

BORING NO.	G2-130	SAMPLED	4-25-95 MM
DEPTH	10.0-12.0'	TEST STARTED	6-20-95 MGJ
SAMPLE NO.	405077	TEST FINISHED	6-21-95 MGJ
SOIL DESCR.	Fernald		
TEST TYPE	ATTERBERG		

Plastic Limit Determination

	1	2	3
Dish	2031	4114	4106
Wt Dish & Wet Soil	12.72	14.03	12.08
Wt Dish & Dry Soil	11.29	12.43	10.71
Wt of Moisture	1.43	1.60	1.37
Wt of Dish	1.08	1.05	1.06
Wt of Dry Soil	10.21	11.38	9.65
Moisture Content	14.01	14.06	14.20

Liquid Limit Determination — Device Number 0258

	1	2	3	4	5
Dish	37C	B50	B36	B13	2072
Number of Blows	40	32	25	19	17
Wt Dish & Wet Soil	13.79	12.43	14.19	12.73	11.22
Wt Dish & Dry Soil	11.43	10.19	11.51	10.32	9.08
Wt of Moisture	2.36	2.24	2.68	2.41	2.14
Wt of Dish	1.03	1.04	1.07	1.11	1.07
Wt of Dry Soil	10.40	9.15	10.44	9.21	8.01
Moisture Content	22.69	24.48	25.67	26.17	26.72

Liquid Limit	25.2
Plastic Limit	14.1
Plasticity Index	11.1

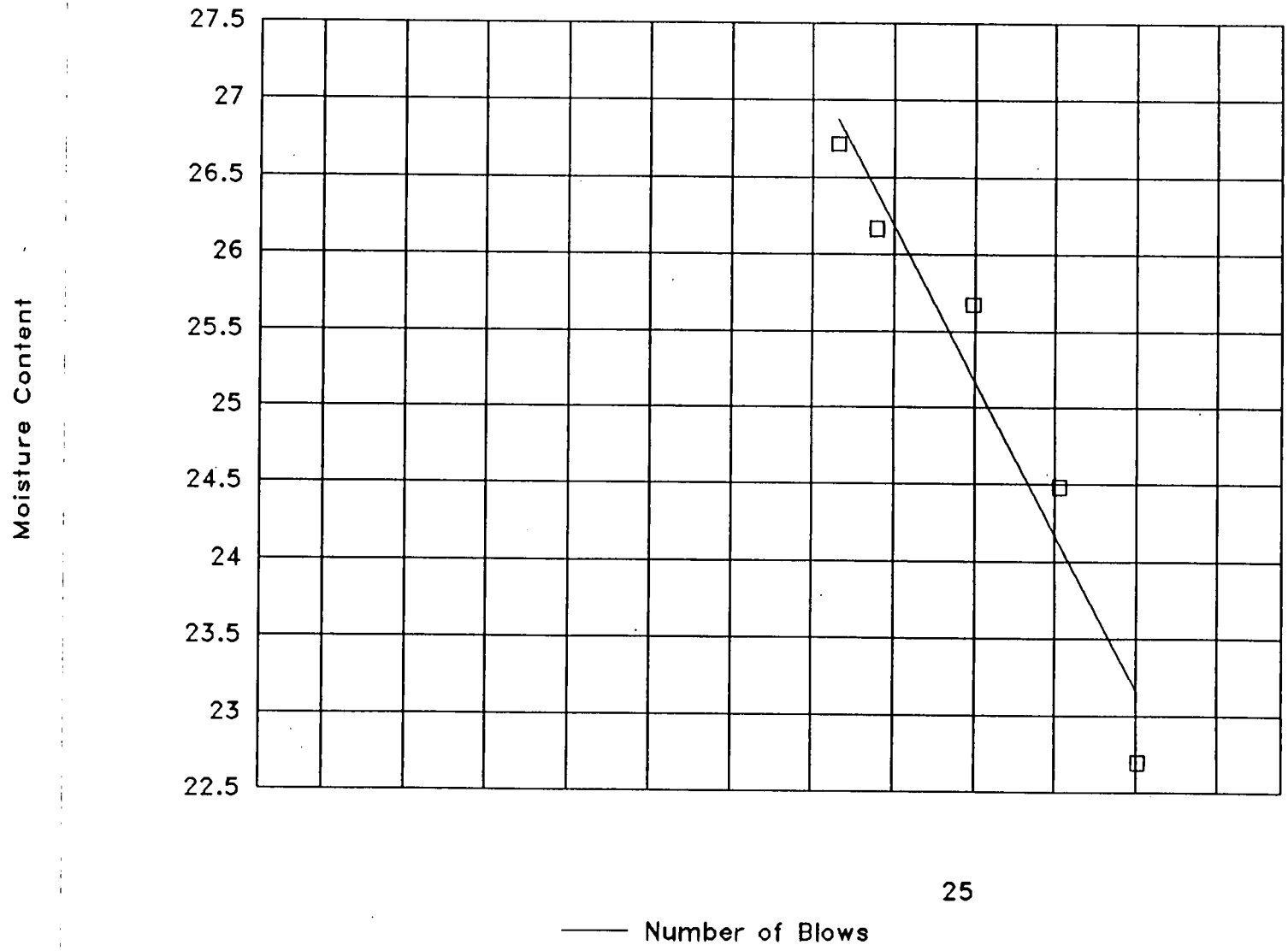
Atterberg Classification CL

Data entry by: NAA Date: 6-21-95
Checked by: WEB Date: 6-22-95
FileName: SAG05077

ADVANCED TERRA TESTING, INC.

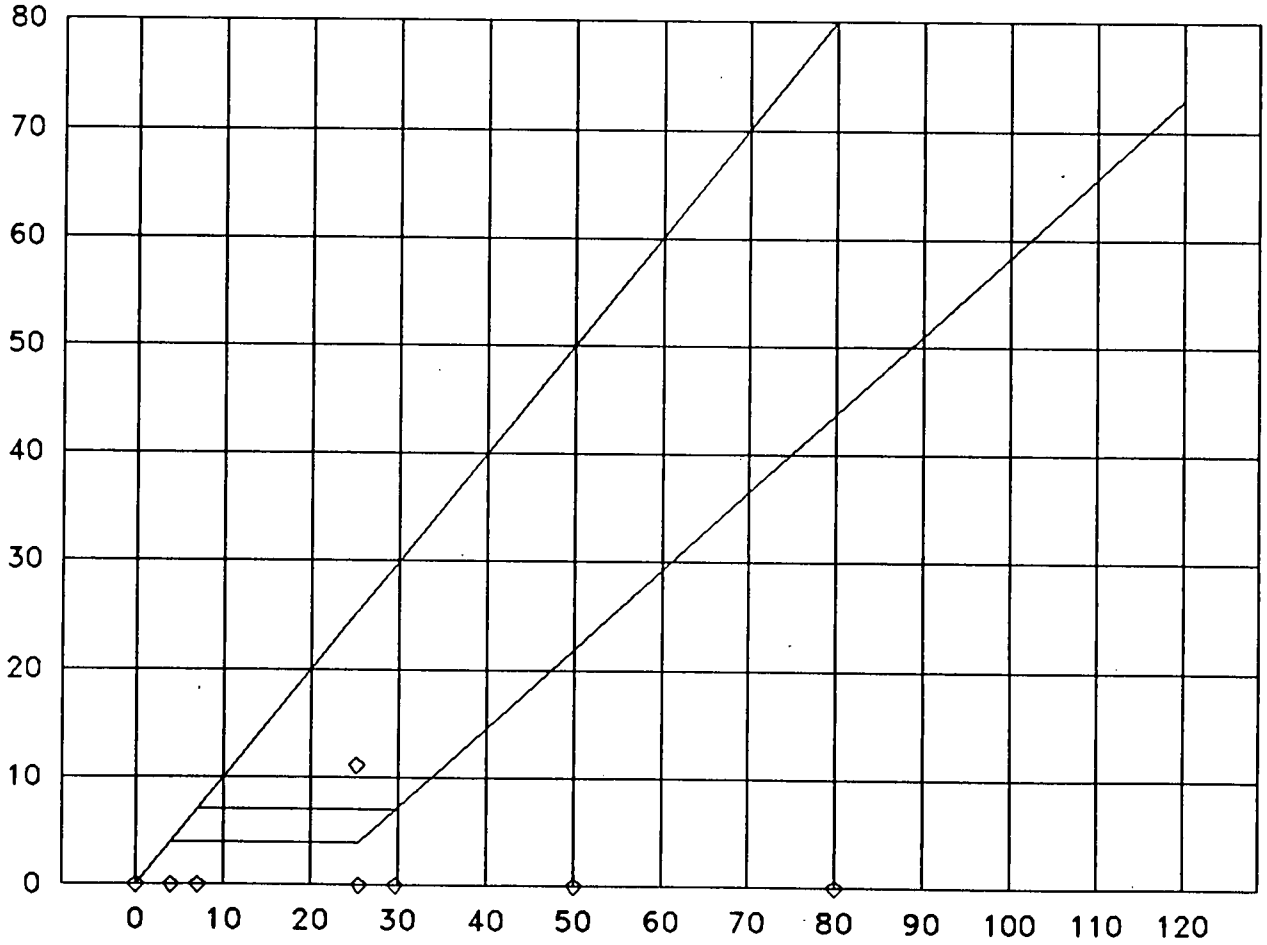
Atterberg Limits, Flow Curve

G2-130, 10.0-12.0', 405077



PLASTICITY CHART

G2-130, 10.0-12.0', 405077



Liquid Limit

◇ Classification

ATTERBERG LIMITS TEST
ASTM D 4318

CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13H
BORING NO.	G2-130	SAMPLED	4-25-95 MM
DEPTH	15.0-17.0'	TEST STARTED	6-19-95 MGJ
SAMPLE NO.	405080	TEST FINISHED	6-20-95 MGJ
SOIL DESCR.	Fernald		
TEST TYPE	ATTERBERG		

Plastic Limit
Determination

	1	2	3
Dish	6C	2067	B67
Wt Dish & Wet Soil	8.31	9.59	12.07
Wt Dish & Dry Soil	7.54	8.64	10.86
Wt of Moisture	0.77	0.95	1.21
Wt of Dish	1.06	1.04	1.04
Wt of Dry Soil	6.48	7.60	9.82
Moisture Content	11.88	12.50	12.32

Liquid Limit Device Number 0258
Determination

	1	2	3	4	5
Dish	B4	20CB	16C	4	4108
Number of Blows	40	31	25	18	11
Wt Dish & Wet Soil	10.79	17.00	13.15	14.66	13.12
Wt Dish & Dry Soil	9.28	14.46	11.18	12.35	10.98
Wt of Moisture	1.51	2.54	1.97	2.31	2.14
Wt of Dish	1.07	1.03	1.09	1.05	1.11
Wt of Dry Soil	8.21	13.43	10.09	11.30	9.87
Moisture Content	18.39	18.91	19.52	20.44	21.68

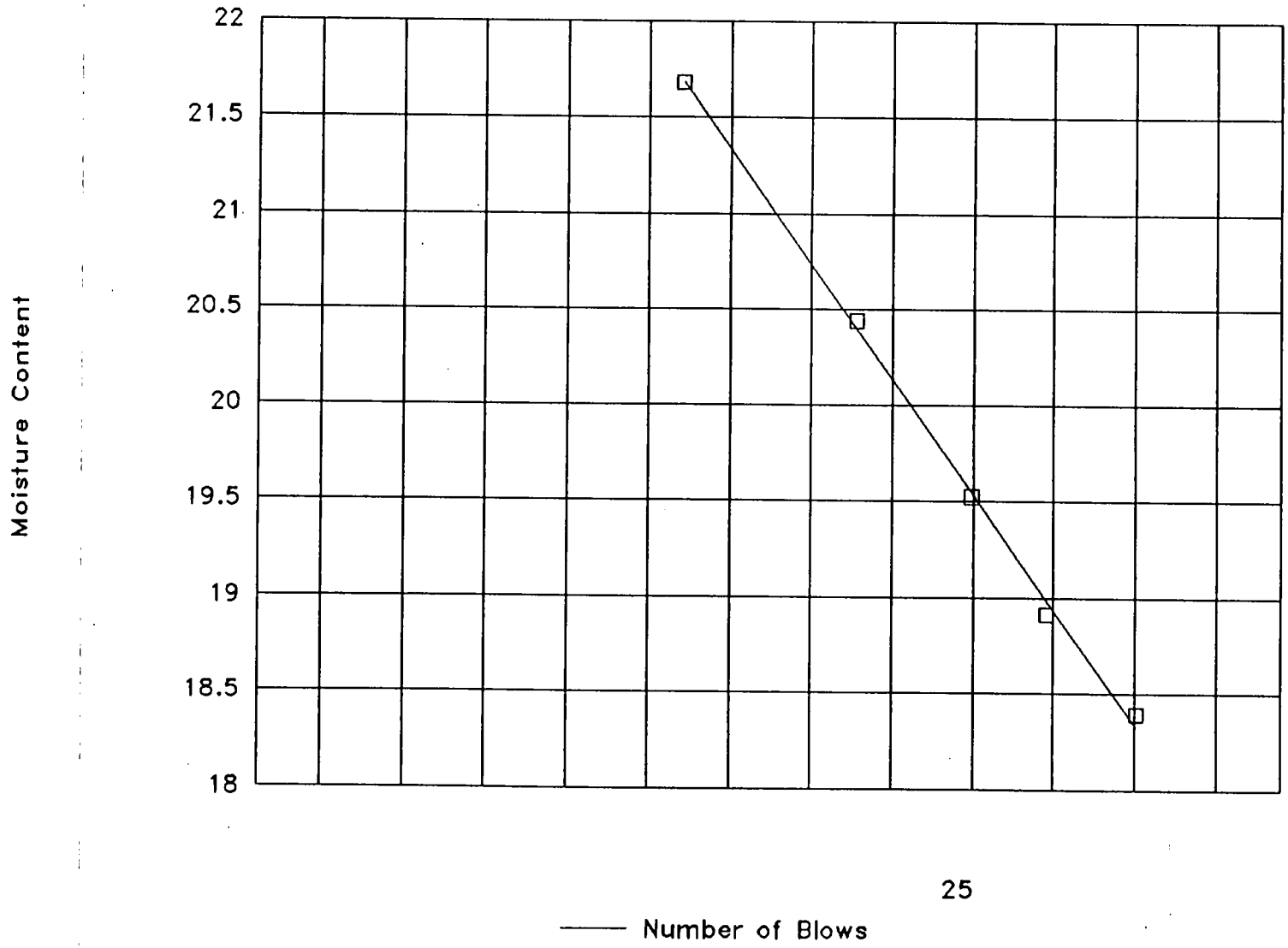
Liquid Limit	19.5
Plastic Limit	12.2
Plasticity Index	7.3

Atterberg Classification CL

Data entry by: NAA Date: 6-20-95
Checked by: WEB Date: 6-20-95
FileName: SAG05080 ADVANCED TERRA TESTING, INC.

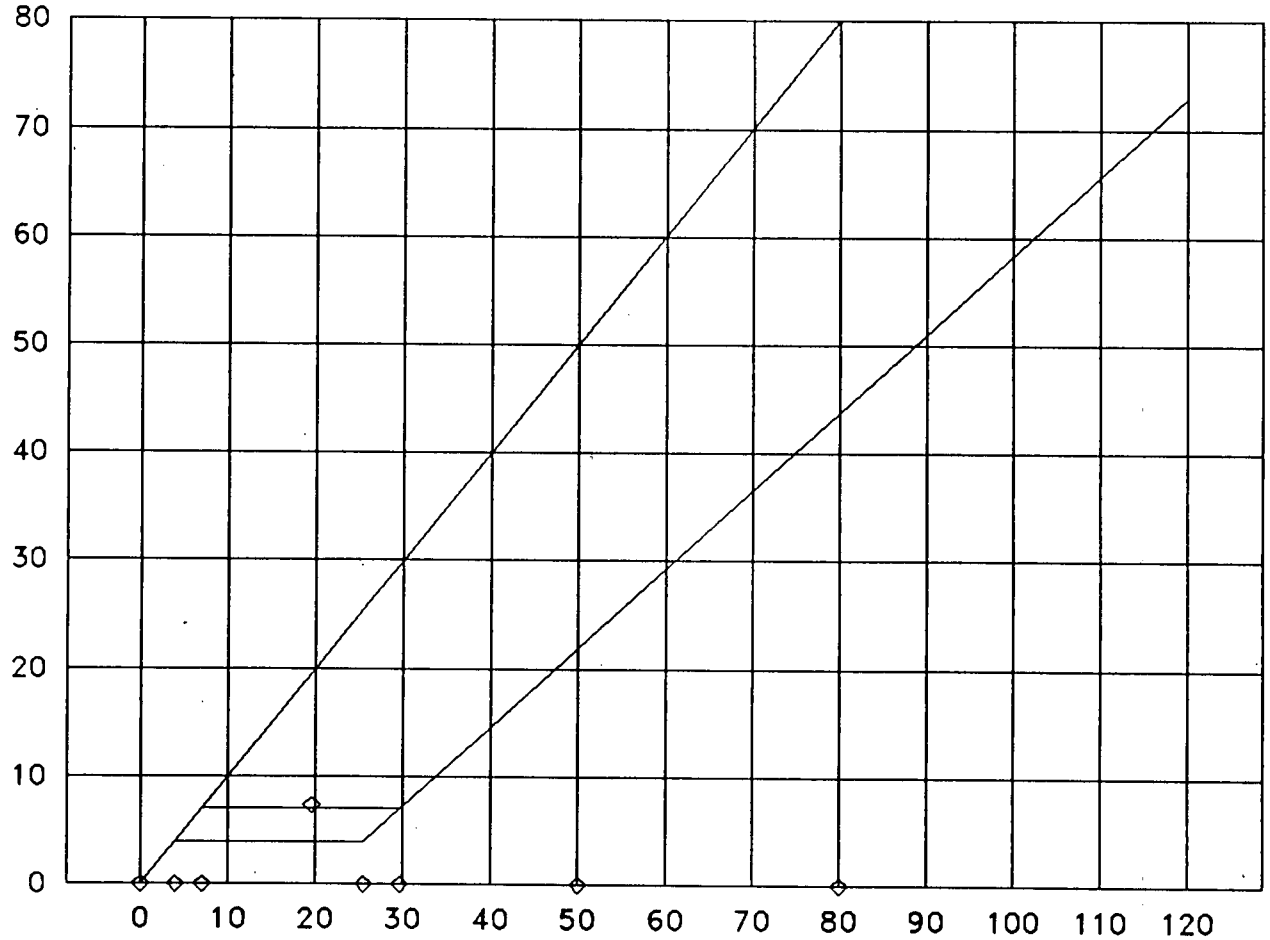
Atterberg Limits, Flow Curve

G2-130, 15.0-17.0', 405080



PLASTICITY CHART

G2-130, 15.0-17.0', 405080



Liquid Limit

◇ Classification

ATTERBERG LIMITS TEST
ASTM D 4318

CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13H
BORING NO.	G2-130	SAMPLED	4-25-95 MM
DEPTH	20.0-22.0'	TEST STARTED	6-12-95 MJ
SAMPLE NO.	405083	TEST FINISHED	6-14-95 MJ
SOIL DESCR.	Fernald		
TEST TYPE	ATTERBERG		

Plastic Limit
Determination

	1	2	3
Dish	1C	2010	
Wt Dish & Wet Soil	9.16	11.47	
Wt Dish & Dry Soil	8.13	10.15	
Wt of Moisture	1.03	1.32	
Wt of Dish	1.06	1.07	
Wt of Dry Soil	7.07	9.08	
Moisture Content	14.57	14.54	

Liquid Limit Device Number 0258
Determination

	1	2	3	4
Dish	22	4C	B6	0C
Number of Blows	50	34	24	16
Wt Dish & Wet Soil	11.95	12.82	10.71	12.38
Wt Dish & Dry Soil	9.87	10.48	8.69	9.95
Wt of Moisture	2.08	2.34	2.02	2.43
Wt of Dish	1.05	1.05	1.03	1.07
Wt of Dry Soil	8.82	9.43	7.66	8.88
Moisture Content	23.58	24.81	26.37	27.36

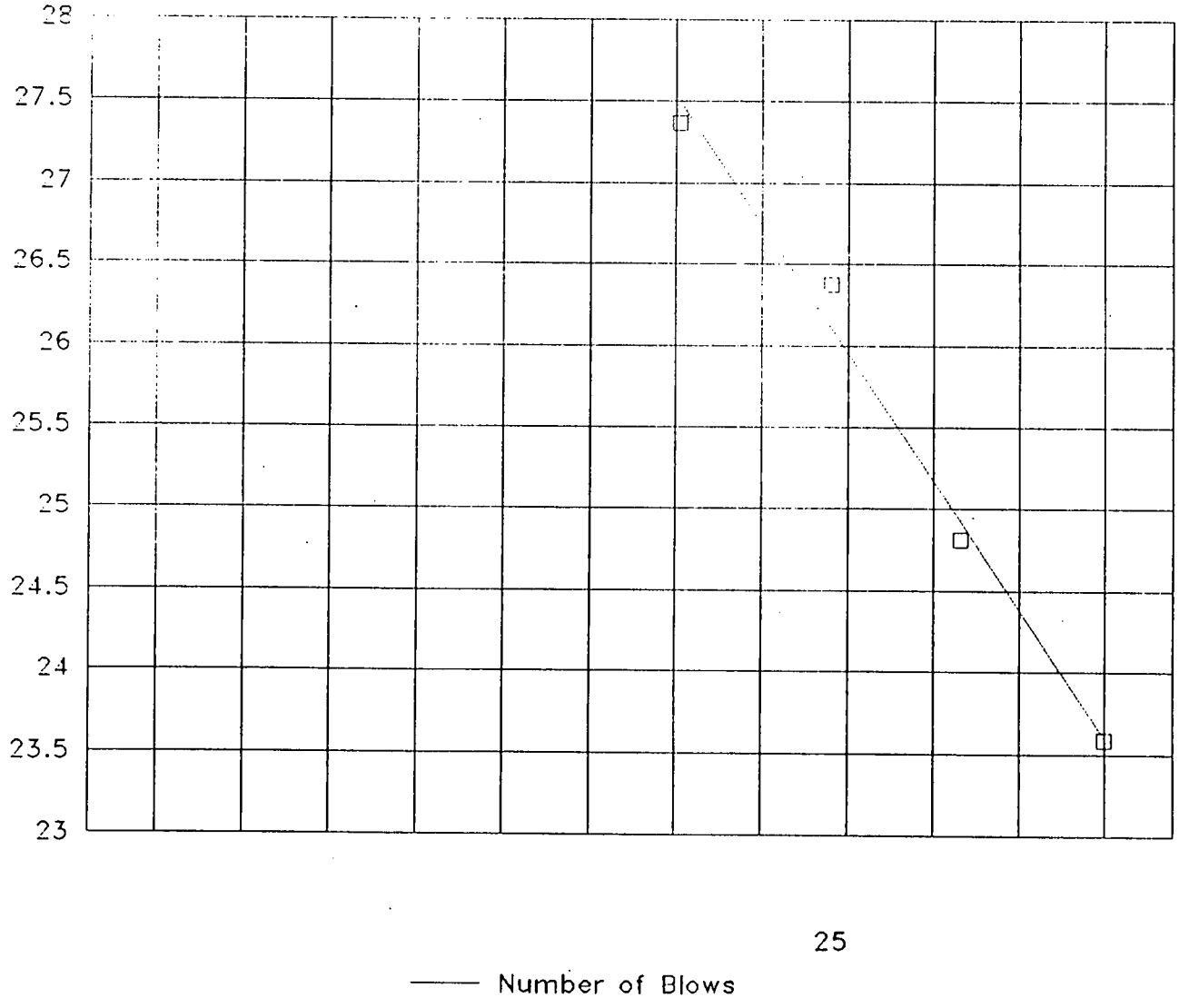
Liquid Limit	26.0
Plastic Limit	14.6
Plasticity Index	11.4

Atterberg Classification CL

Data entry by: NAA Date: 6-14-95
Checked by: [illegible] Date: 6-15-95
FileName: SAG05083 ADVANCED TERRA TESTING, INC.

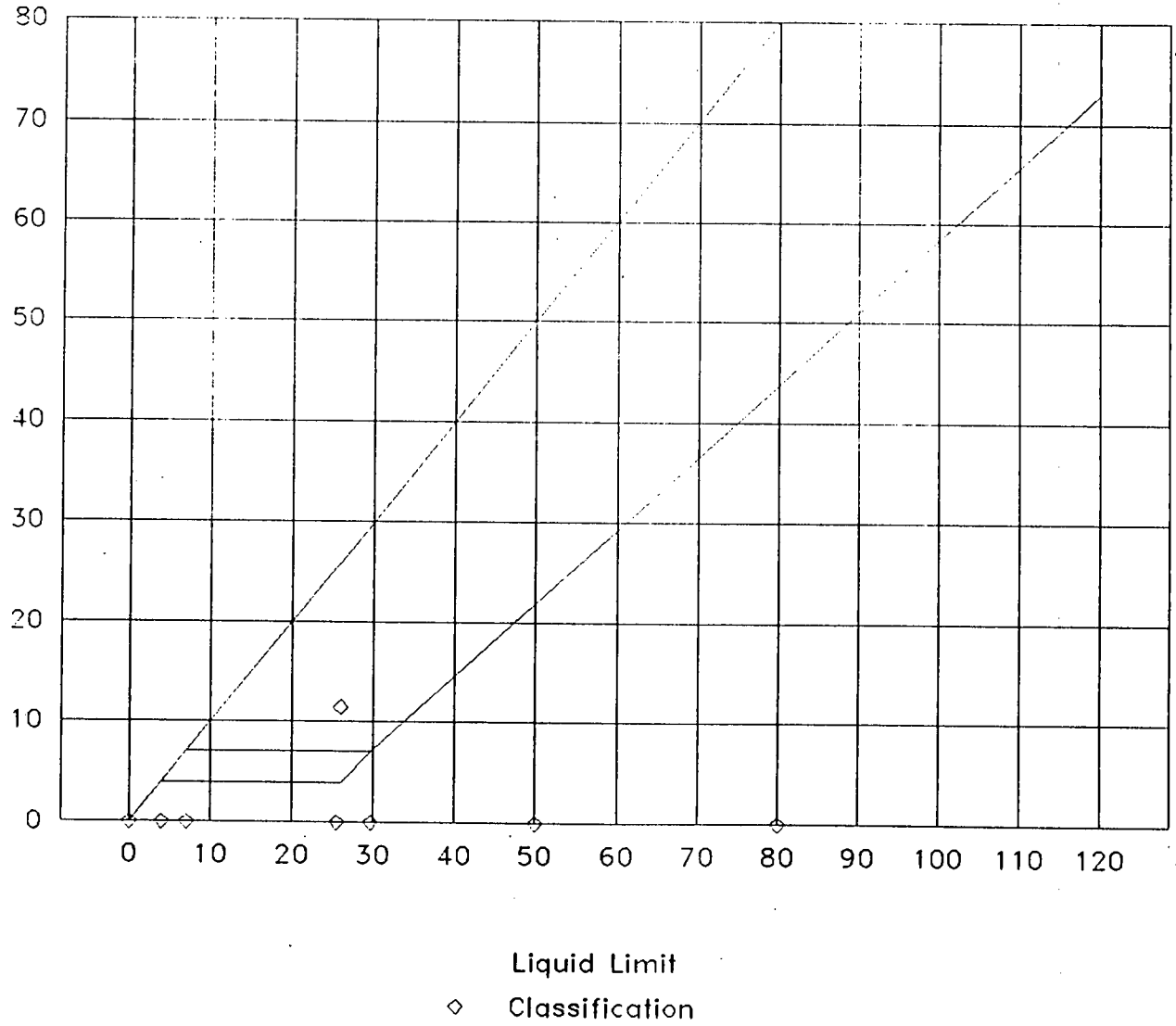
Atterberg Limits, Flow Curve

G2-130, 20.0-22.0', 405083



PLASTICITY CHART

G2-130, 20.0-22.0', 405083



ATTERBERG LIMITS TEST
ASTM D 4318

CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13H
BORING NO.	G2-130	SAMPLED	4-12-95 MG
DEPTH	30.0-32.0'	TEST STARTED	6-16-95 MGJ
SAMPLE NO.	405088	TEST FINISHED	6-17-95 MGJ
SOIL DESCR.	Fernald		
TEST TYPE	ATTERBERG		

Plastic Limit
Determination

	1	2	3
Dish	2029	2012	B64
Wt Dish & Wet Soil	10.69	12.97	9.83
Wt Dish & Dry Soil	9.52	11.55	8.80
Wt of Moisture	1.17	1.42	1.03
Wt of Dish	1.07	1.12	1.04
Wt of Dry Soil	8.45	10.43	7.76
Moisture Content	13.85	13.61	13.27

Liquid Limit Device Number 0258
Determination

	1	2	3	4	5
Dish	40C	2065	2011	66C	10C
Number of Blows	41	38	33	25	19
Wt Dish & Wet Soil	16.19	14.58	15.15	13.96	15.24
Wt Dish & Dry Soil	13.39	12.06	12.49	11.40	12.36
Wt of Moisture	2.80	2.52	2.66	2.56	2.88
Wt of Dish	1.06	1.05	1.04	1.05	1.06
Wt of Dry Soil	12.33	11.01	11.45	10.35	11.30
Moisture Content	22.71	22.89	23.23	24.73	25.49

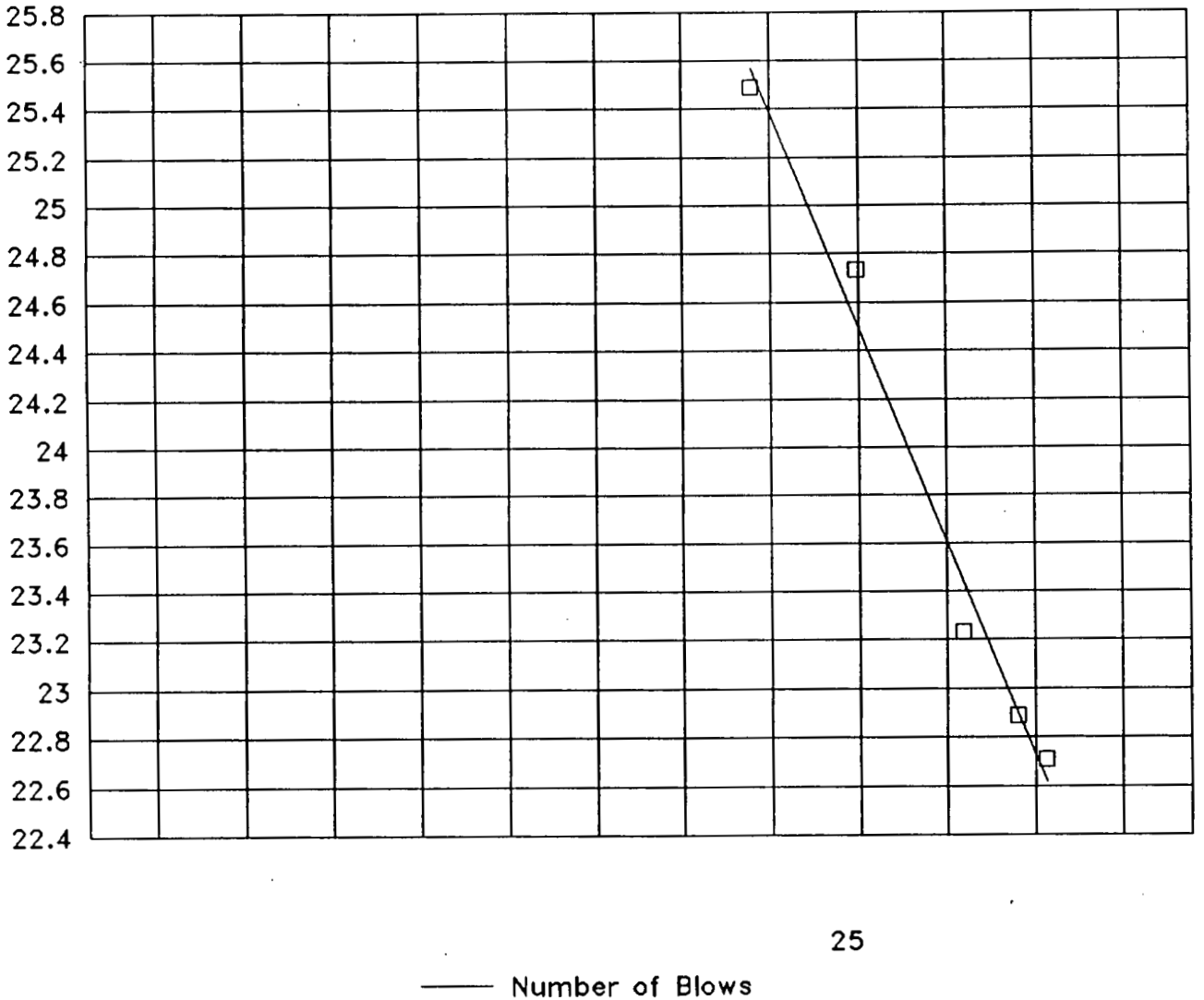
Liquid Limit	24.5
Plastic Limit	13.6
Plasticity Index	10.9

Atterberg Classification CL

Data entry by: NAA Date: 6-19-95
Checked by: WEB Date: 6-20-95
FileName: SAG05088 ADVANCED TERRA TESTING, INC.

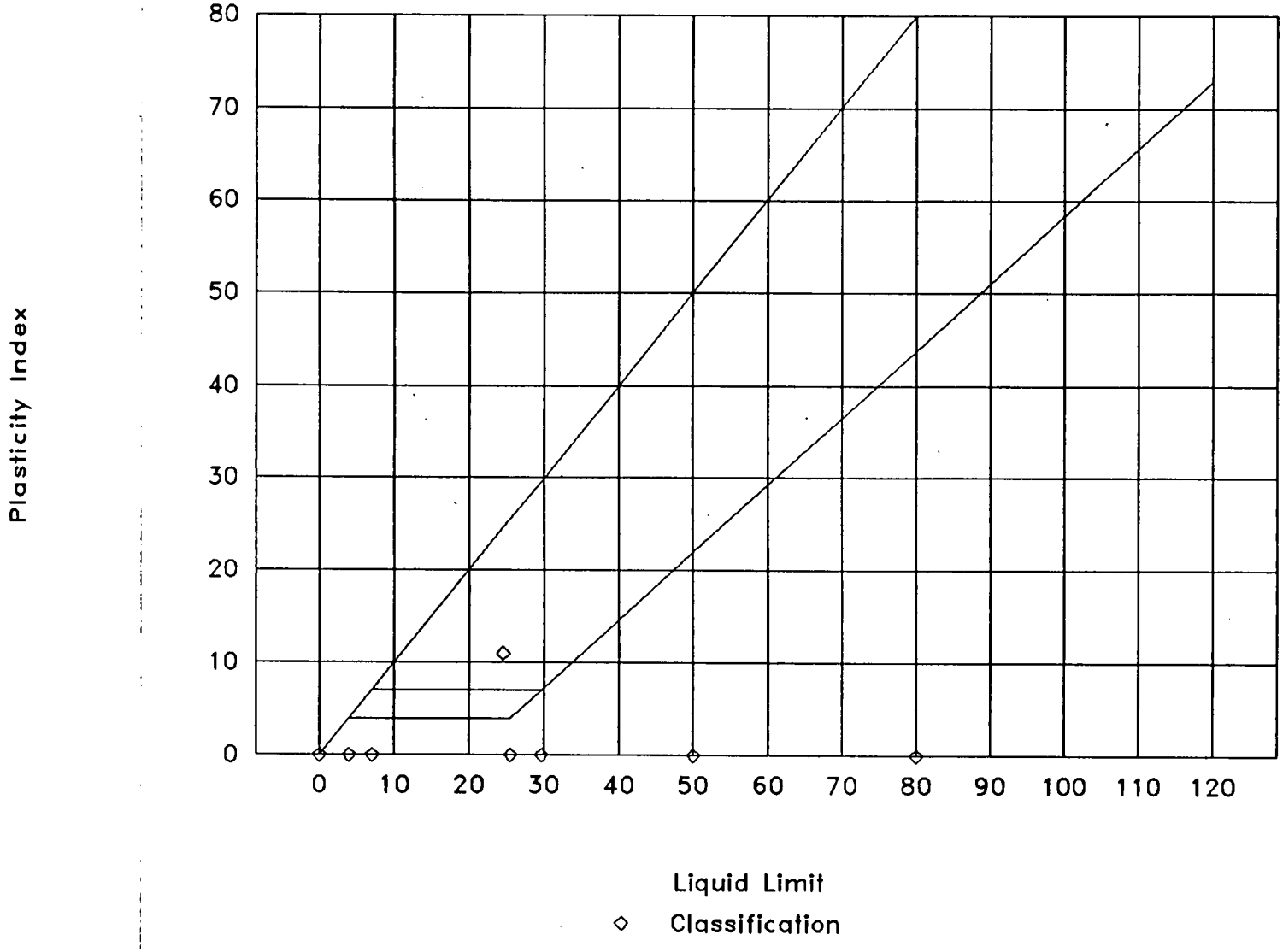
Atterberg Limits, Flow Curve

G2-130, 30.0-32.0', 405088



PLASTICITY CHART

G2-130, 30.0-32.0', 405088



ATTERBERG LIMITS TEST
ASTM D 4318

CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13A
BORING NO.	G2-131	SAMPLED	4-12-95 MG
DEPTH	7.5-9.5'	TEST STARTED	6-8-95 WEB
SAMPLE NO.	404704	TEST FINISHED	6-9-95 WEB
SOIL DESCR.	Fernald		
TEST TYPE	ATTERBERG		

Plastic Limit
Determination

	1	2	3
Dish	B29	10C	B42
Wt Dish & Wet Soil	5.83	7.29	10.03
Wt Dish & Dry Soil	5.21	6.46	8.86
Wt of Moisture	0.62	0.83	1.17
Wt of Dish	1.05	1.04	1.04
Wt of Dry Soil	4.16	5.42	7.82
Moisture Content	14.90	15.31	14.96

Liquid Limit Device Number 0258
Determination

	1	2	3	4	5
Dish	B12	2017	B64	25C	46C
Number of Blows	26	20	18	11	8
Wt Dish & Wet Soil	19.41	18.16	18.01	18.72	22.79
Wt Dish & Dry Soil	15.48	14.42	14.23	14.55	17.37
Wt of Moisture	3.93	3.74	3.78	4.17	5.42
Wt of Dish	1.05	1.04	1.03	1.05	1.05
Wt of Dry Soil	14.43	13.38	13.20	13.50	16.32
Moisture Content	27.23	27.95	28.64	30.89	33.21

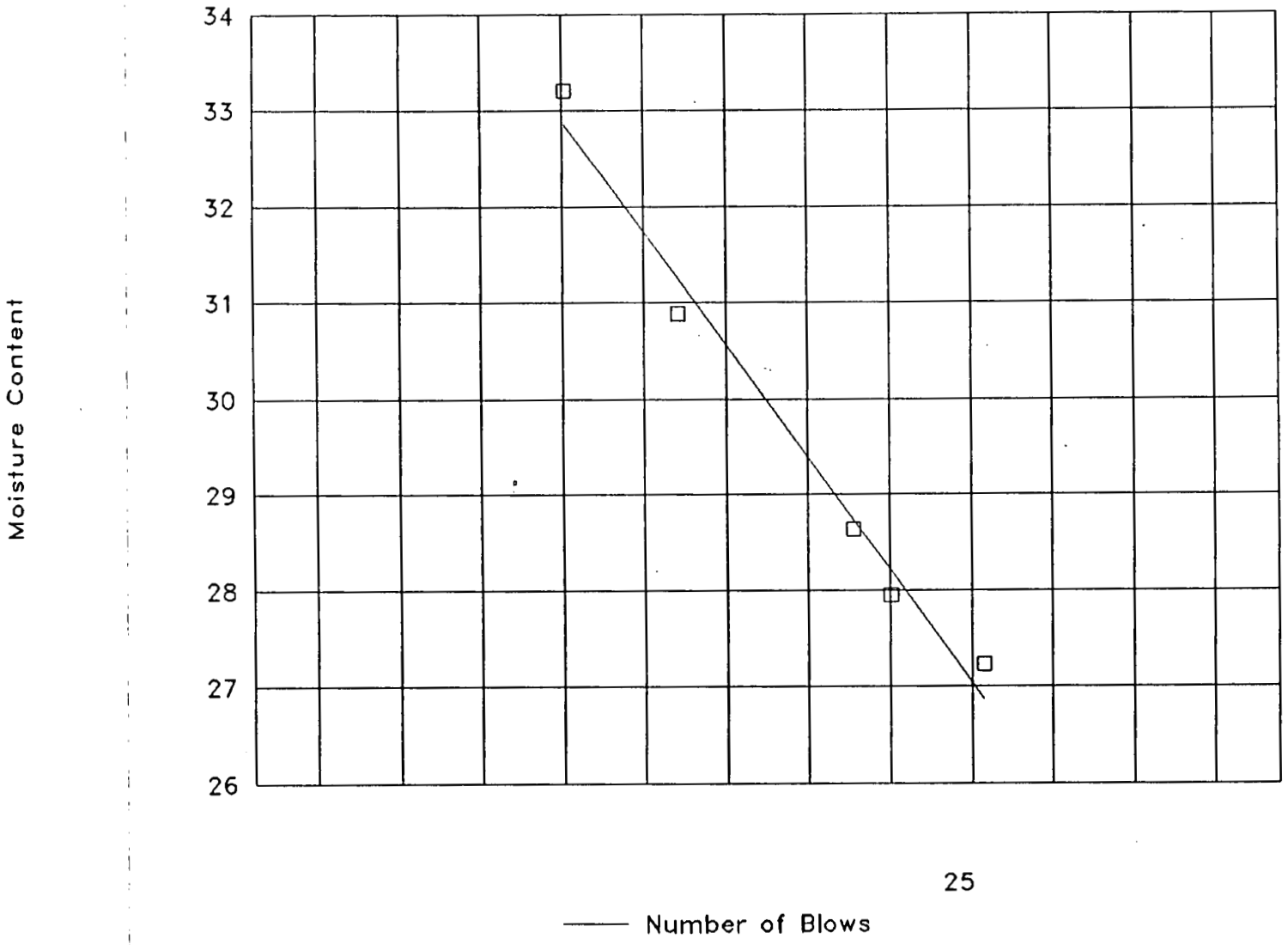
Liquid Limit	27.1
Plastic Limit	15.1
Plasticity Index	12.0

Atterberg Classification CL

Data entry by: NAA Date: 6-9-95
Checked by: BSR Date: 6-9-95
FileName: SAG0704 ADVANCED TERRA TESTING, INC.

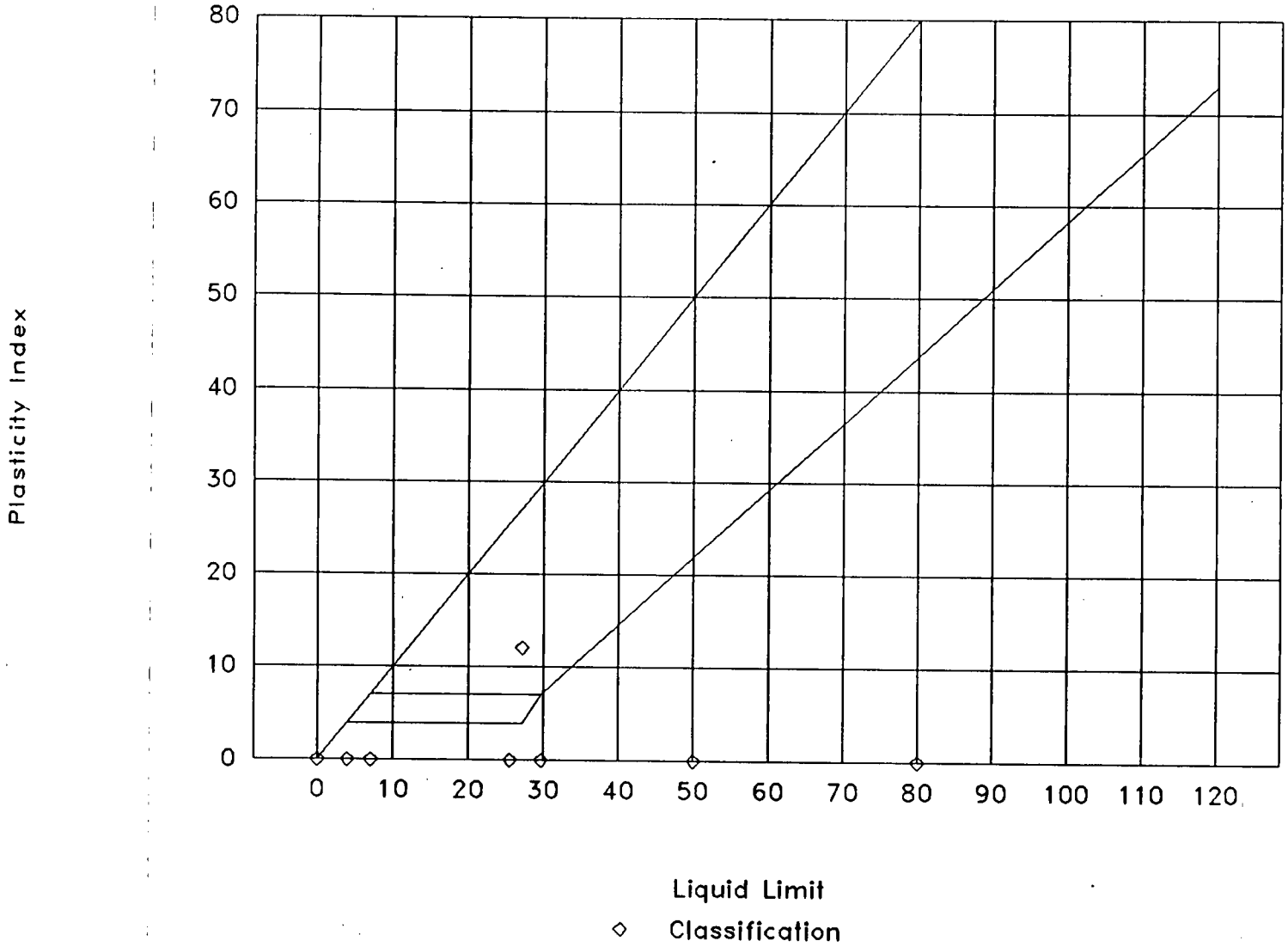
Atterberg Limits, Flow Curve

G2-131, 7.5-9.5', 404704



PLASTICITY CHART

G2-131, 7.5-9.5', 404704



ATTERBERG LIMITS TEST
ASTM D 4318

CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13A
BORING NO.	G2-131	SAMPLED	4-13-95 MG
DEPTH	17.5-19.5'	TEST STARTED	6-8-95 WEB
SAMPLE NO.	404709	TEST FINISHED	6-9-95 WEB
SOIL DESCR.	Fernald		
TEST TYPE	ATTERBERG		

Plastic Limit
Determination

	1	2	3
Dish	40C	2065	2011
Wt Dish & Wet Soil	9.44	8.09	9.72
Wt Dish & Dry Soil	8.44	7.25	8.68
Wt of Moisture	1.00	0.84	1.04
Wt of Dish	1.06	1.06	1.05
Wt of Dry Soil	7.38	6.19	7.63
Moisture Content	13.55	13.57	13.63

Liquid Limit Device Number 0258
Determination

	1	2	3	4	5
Dish	4114	2013	66C	2031	4106
Number of Blows	20	49	36	21	9
Wt Dish & Wet Soil	19.64	20.86	18.73	28.60	27.04
Wt Dish & Dry Soil	15.86	17.10	15.31	23.06	21.13
Wt of Moisture	3.78	3.76	3.42	5.54	5.91
Wt of Dish	1.05	1.06	1.04	1.05	1.05
Wt of Dry Soil	14.81	16.04	14.27	22.01	20.08
Moisture Content	25.52	23.44	23.97	25.17	29.43

Liquid Limit	25.2
Plastic Limit	13.6
Plasticity Index	11.7

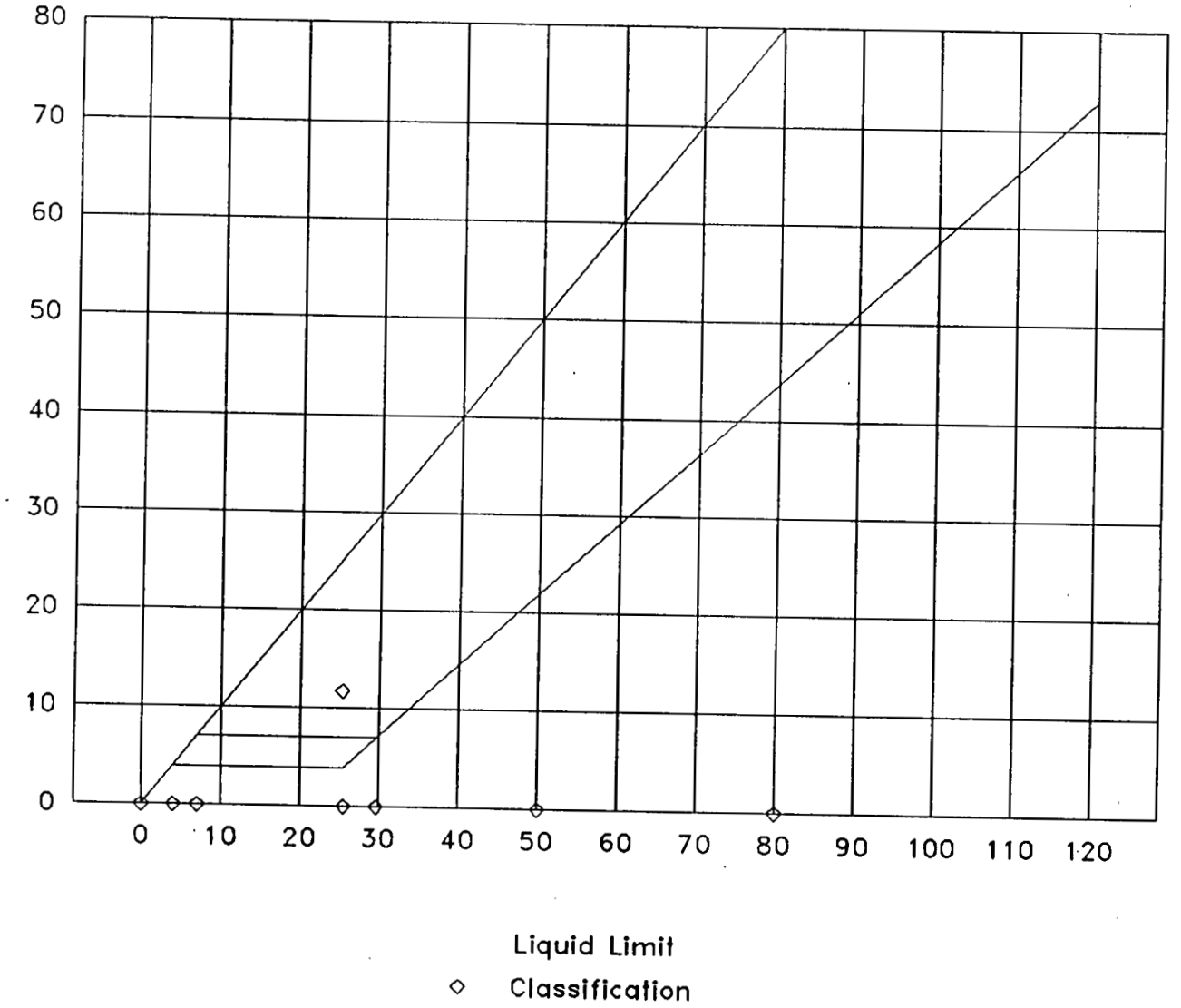
Atterberg Classification CL

Data entry by: NAA Date: 6-9-95
Checked by: [illegible] Date: 6-9-95
FileName: SAG0709

ADVANCED TERRA TESTING, INC.

PLASTICITY CHART

G2-131, 17.5-19.5', 404709



ATTERBERG LIMITS TEST
ASTM D 4318

CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13A
BORING NO.	G2-131	SAMPLED	4-13-95 MG
DEPTH	27.5-29.5'	TEST STARTED	6-15-95 WEB
SAMPLE NO.	404713	TEST FINISHED	6-16-95 WEB
SOIL DESCR.	Fernald		
TEST TYPE	ATTERBERG		

Plastic Limit Determination

	1	2	3
Dish	2069	B44	B68
Wt Dish & Wet Soil	7.86	8.00	8.23
Wt Dish & Dry Soil	7.05	7.19	7.36
Wt of Moisture	0.81	0.81	0.87
Wt of Dish	1.05	1.06	1.05
Wt of Dry Soil	6.00	6.13	6.31
Moisture Content	13.50	13.21	13.79

Liquid Limit Determination — Device Number 0258

	1	2	3	4	5
Dish	B52	4115	4104	2055	B18
Number of Blows	47	31	20	16	13
Wt Dish & Wet Soil	23.66	29.79	29.86	27.92	27.54
Wt Dish & Dry Soil	19.57	24.29	24.18	22.32	21.79
Wt of Moisture	4.09	5.50	5.68	5.60	5.75
Wt of Dish	1.06	1.05	1.04	1.05	1.05
Wt of Dry Soil	18.51	23.24	23.14	21.27	20.74
Moisture Content	22.10	23.67	24.55	26.33	27.72

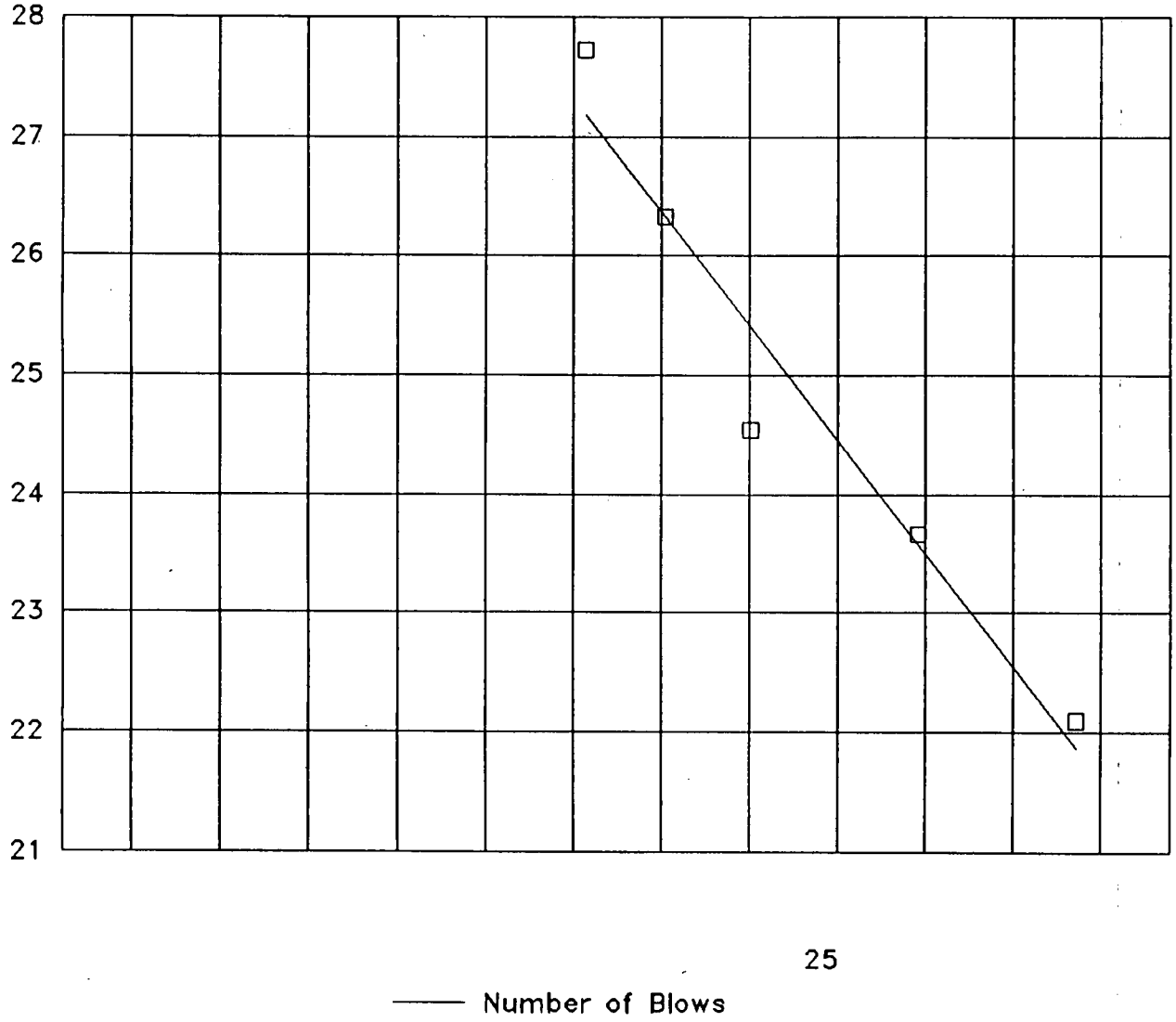
Liquid Limit	24.5
Plastic Limit	13.5
Plasticity Index	11.0

Atterberg Classification CL

Data entry by: NAA Date: 6-19-95
Checked by: WEB Date: 6-20-95
FileName: SAG0713 ADVANCED TERRA TESTING, INC.

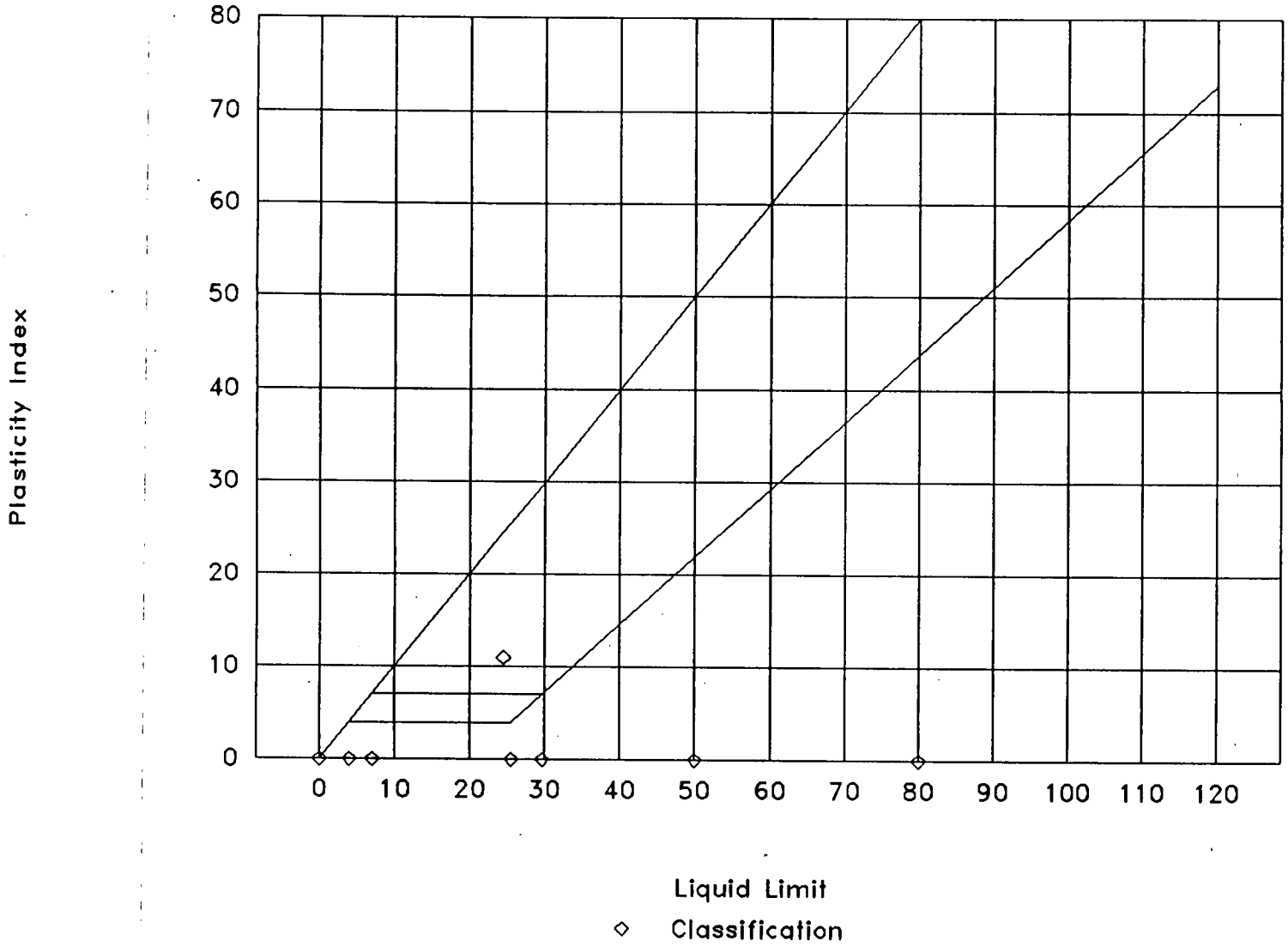
Atterberg Limits, Flow Curve

G2-131, 27.5-29.5', 404713



PLASTICITY CHART

G2-131, 27.5-29.5', 404713



ATTERBERG LIMITS TEST
ASTM D 4318

CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13A
BORING NO.	G2-131	SAMPLED	4-13-95 MG
DEPTH	45.0-47.0'	TEST STARTED	6-9-95 WEB
SAMPLE NO.	404719	TEST FINISHED	6-13-95 WEB
SOIL DESCR.	Fernald		
TEST TYPE	ATTERBERG		

Plastic Limit
Determination

	1	2	3
Dish	6C	4	4102
Wt Dish & Wet Soil	9.19	8.17	7.39
Wt Dish & Dry Soil	8.02	7.19	6.48
Wt of Moisture	1.17	0.98	0.91
Wt of Dish	1.06	1.04	1.03
Wt of Dry Soil	6.96	6.15	5.45
Moisture Content	16.81	15.93	16.70

Liquid Limit Device Number 0258
Determination

	1	2	3	4	5
Dish	4108	16C	B4	26C	39C
Number of Blows	46	37	31	22	13
Wt Dish & Wet Soil	25.29	24.04	23.72	23.68	28.66
Wt Dish & Dry Soil	19.72	18.66	18.30	18.02	21.44
Wt of Moisture	5.57	5.38	5.42	5.66	7.22
Wt of Dish	1.04	1.07	1.05	1.05	1.07
Wt of Dry Soil	18.68	17.59	17.25	16.97	20.37
Moisture Content	29.82	30.59	31.42	33.35	35.44

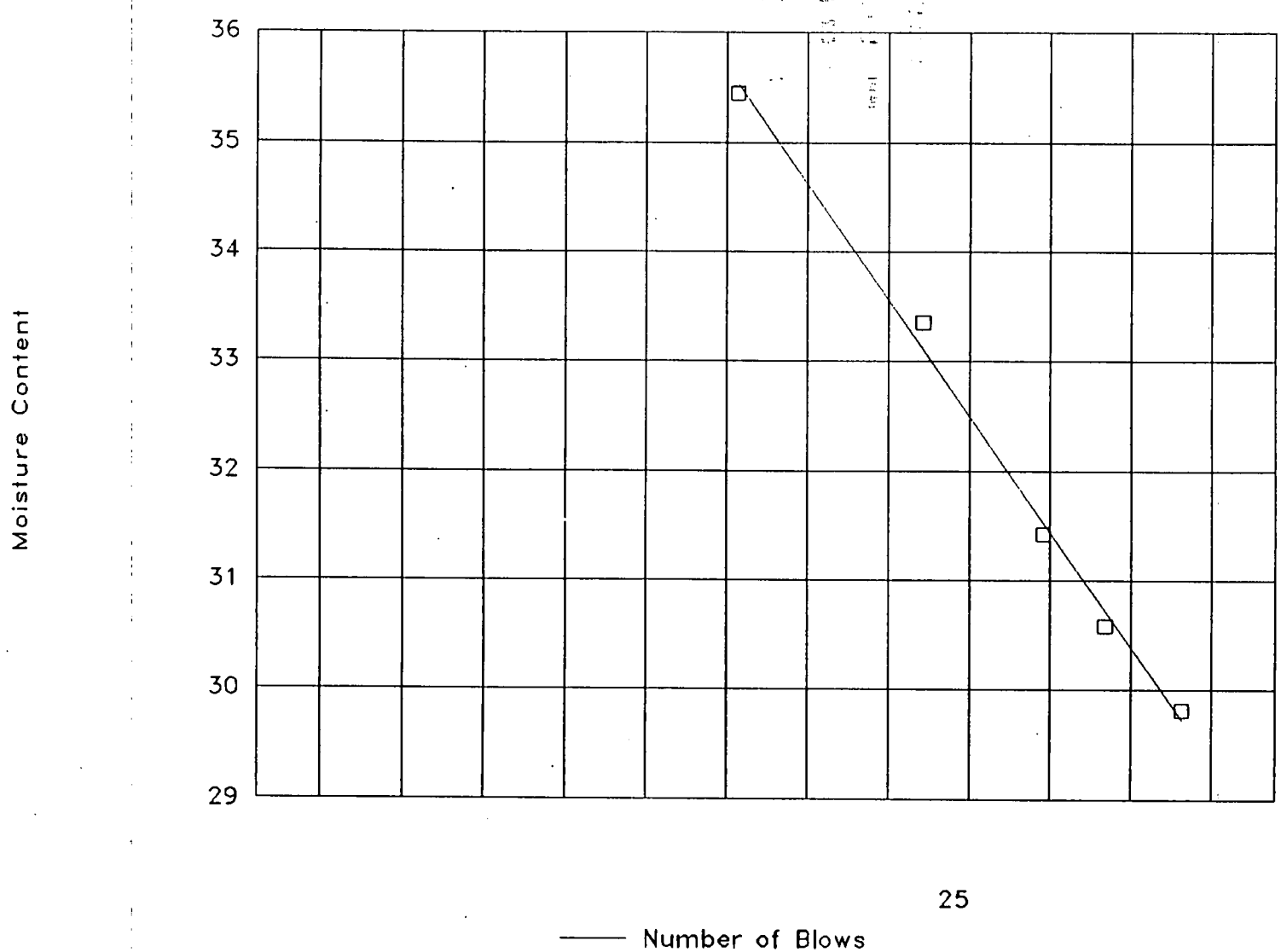
Liquid Limit	32.5
Plastic Limit	16.5
Plasticity Index	16.0

Atterberg Classification CL

Data entry by: NAA Date: 6-13-95
Checked by: WEB Date: 6-15-95
FileName: SAG0719 ADVANCED TERRA TESTING, INC.

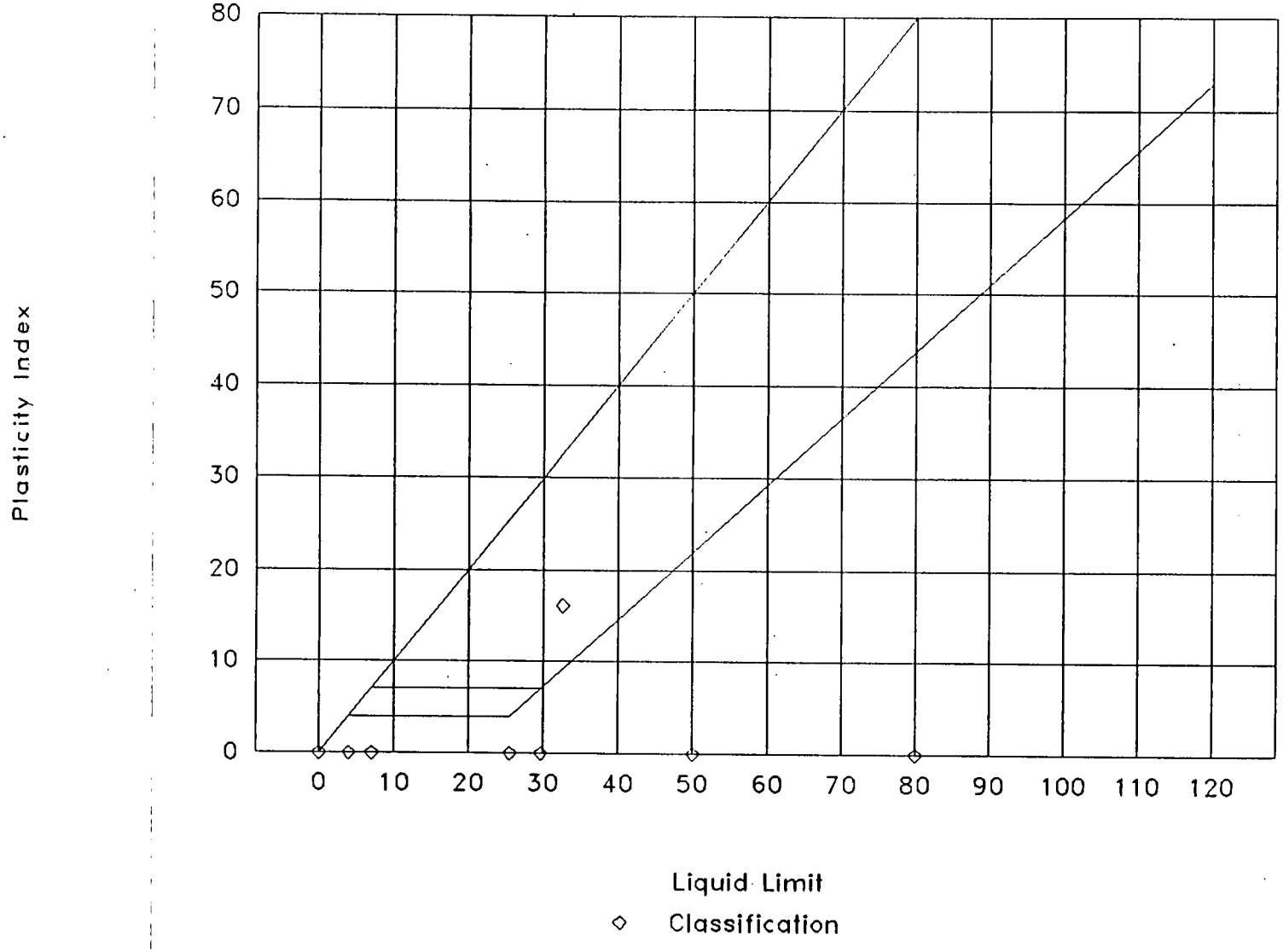
Atterberg Limits, Flow Curve

G2-131, 45.0-47.0', 404719



PLASTICITY CHART

G2-131, 45.0-47.0', 404719



ATTERBERG LIMITS TEST
ASTM D 4318

CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13A
BORING NO.	G2-131	SAMPLED	
DEPTH	60.0-61.5'	TEST STARTED	6-5-95 RW
SAMPLE NO.	404723	TEST FINISHED	6-6-95 RW
SOIL DESCR.	Fernald		
TEST TYPE	ATTERBERG		

Plastic Limit
Determination

	1	2	3
Dish	1C	32CX	20CB
Wt Dish & Wet Soil	7.80	7.39	8.49
Wt Dish & Dry Soil	6.70	6.38	7.27
Wt of Moisture	1.10	1.01	1.22
Wt of Dish	1.06	1.03	1.03
Wt of Dry Soil	5.64	5.35	6.24
Moisture Content	19.50	18.88	19.55

Liquid Limit Device Number 0255
Determination

	1	2	3	4	5
Dish	2042	4C	B62	B53	43C
Number of Blows	8	11	25	45	15
Wt Dish & Wet Soil	13.52	16.32	16.11	12.69	17.59
Wt Dish & Dry Soil	11.21	13.51	13.71	10.91	14.68
Wt of Moisture	2.31	2.81	2.40	1.78	2.91
Wt of Dish	1.06	1.05	1.05	1.04	1.04
Wt of Dry Soil	10.15	12.46	12.66	9.87	13.64
Moisture Content	22.76	22.55	18.96	18.03	21.33
Calculated Moisture cont	23.055	22.083	19.578	17.784	21.137

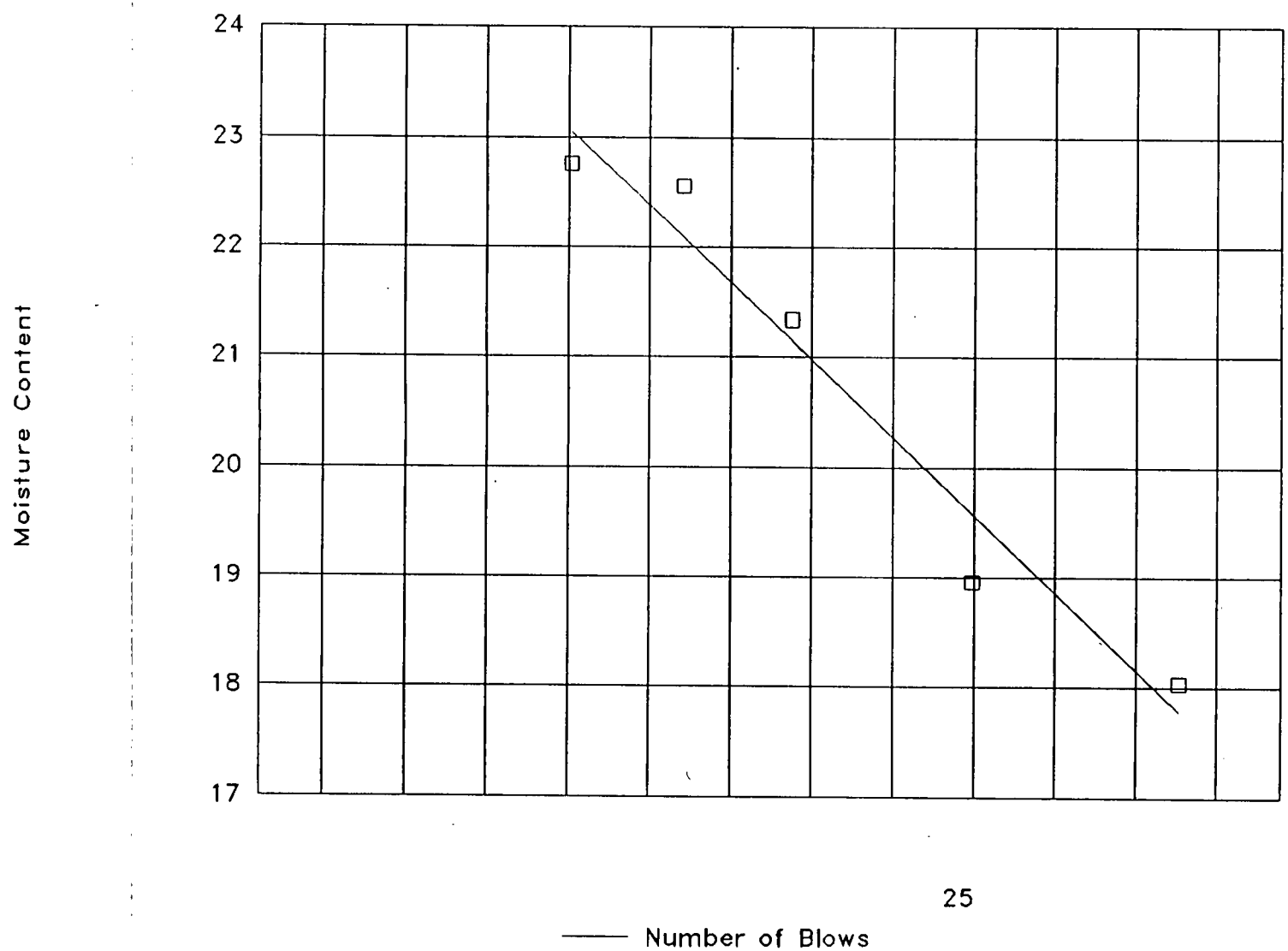
Liquid Limit	19.6
Plastic Limit	19.3
Plasticity Index	0.3

Atterberg Classification NP

Data entry by: NAA Date: 6-6-95
Checked by: [signature] Date: 6-7-95
FileName: SAG0723 ADVANCED TERRA TESTING, INC.

Atterberg Limits, Flow Curve

G2-131, 60.0-61.5', 404723



ATTERBERG LIMITS TEST
ASTM D 4318

CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13H
BORING NO.	G2-132	SAMPLED	4-27-95
DEPTH	5.0-7.0'	TEST STARTED	5-27-95 MGJ
SAMPLE NO.	405102	TEST FINISHED	5-28-95 MGJ
SOIL DESCR.	Fernald		
TEST TYPE	ATTERBERG		

Plastic Limit
Determination

	1	2	3
Dish	2002	2C	32C
Wt Dish & Wet Soil	11.94	11.60	12.87
Wt Dish & Dry Soil	10.09	9.82	10.82
Wt of Moisture	1.85	1.78	2.05
Wt of Dish	1.07	1.06	1.04
Wt of Dry Soil	9.02	8.76	9.78
Moisture Content	20.51	20.32	20.96

Liquid Limit Device Number 0258
Determination

	1	2	3	4	5
Dish	B48	2064	2036	4001	B33
Number of Blows	50	36	26	22	18
Wt Dish & Wet Soil	15.27	15.60	12.09	12.89	13.07
Wt Dish & Dry Soil	10.94	11.08	8.54	8.98	9.02
Wt of Moisture	4.33	4.52	3.55	3.91	4.05
Wt of Dish	1.06	1.06	1.08	1.05	1.06
Wt of Dry Soil	9.88	10.02	7.46	7.93	7.96
Moisture Content	43.83	45.11	47.59	49.31	50.88

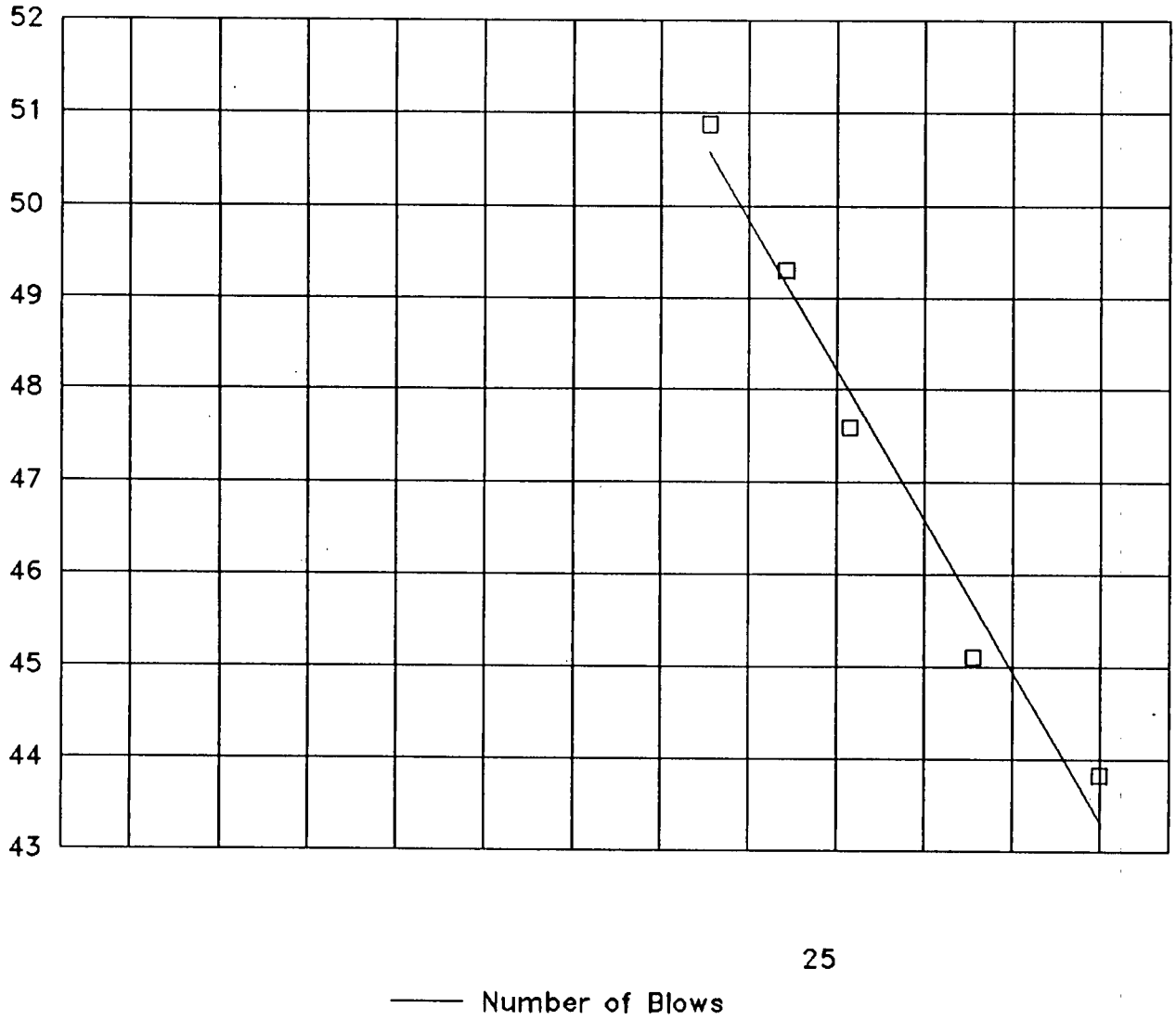
Liquid Limit	48.2
Plastic Limit	20.6
Plasticity Index	27.7

Atterberg Classification CL

Data entry by: NAA Date: 6-19-95
Checked by: WEB Date: 6-20-95
FileName: SAG05102 ADVANCED TERRA TESTING, INC.

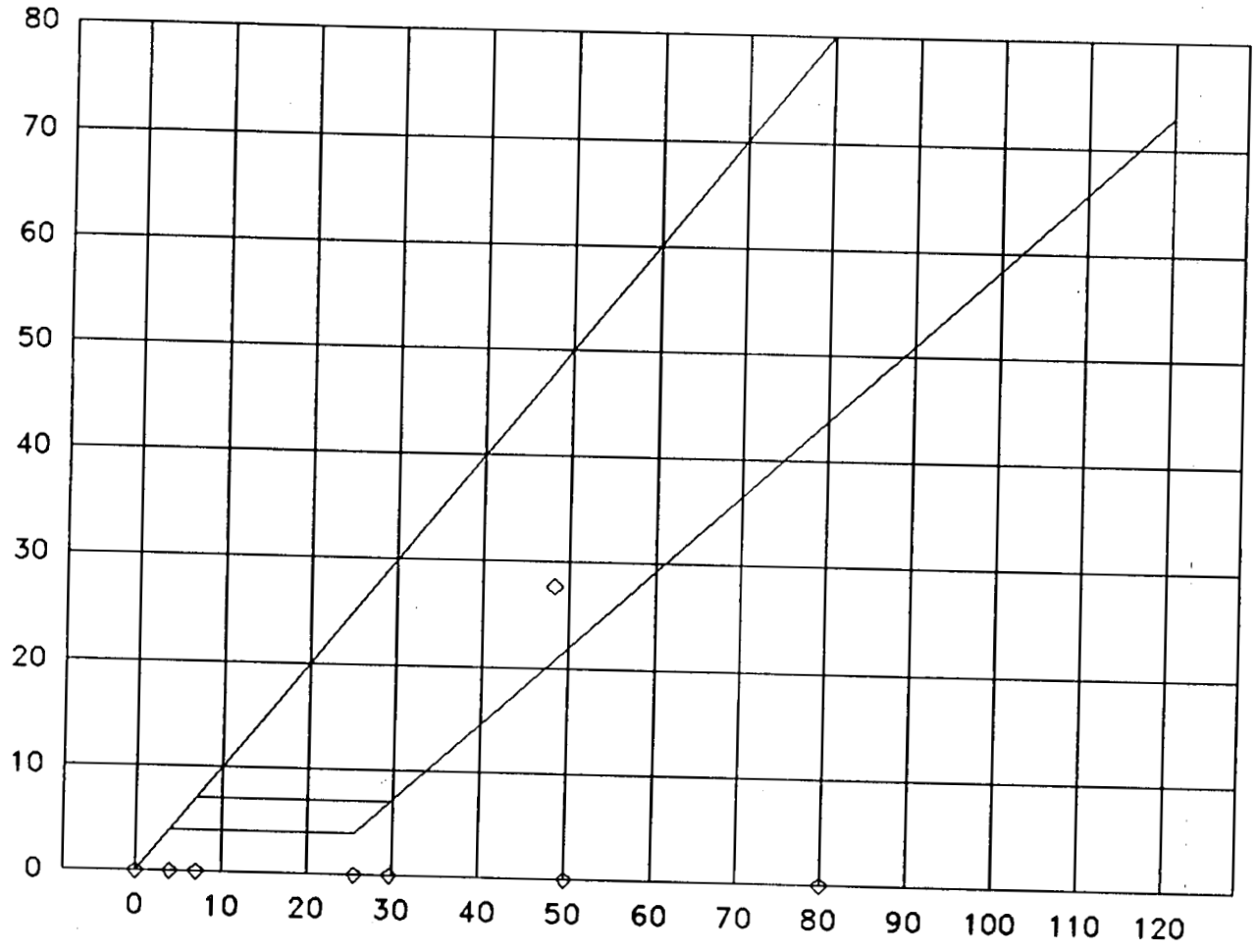
Atterberg Limits, Flow Curve

G2-132, 5.0-7.0', 405102



PLASTICITY CHART

G2-132, 5.0-7.0', 405102



◇ Classification

ATTERBERG LIMITS TEST
ASTM D 4318

CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13H
BORING NO.	G2-132	SAMPLED	4-27-95
DEPTH	10.0-12.0'	TEST STARTED	6-13-95 MGJ
SAMPLE NO.	405105	TEST FINISHED	6-14-95 MGJ
SOIL DESCR.	Fernald		
TEST TYPE	ATTERBERG		

Plastic Limit
Determination

	1	2	3
Dish	32CX	B16	
Wt Dish & Wet Soil	10.56	7.40	
Wt Dish & Dry Soil	9.33	6.58	
Wt of Moisture	1.23	0.82	
Wt of Dish	1.03	1.04	
Wt of Dry Soil	8.30	5.54	
Moisture Content	14.82	14.80	

Liquid Limit Device Number 0258
Determination

	1	2	3	4	5
Dish	B56	87P	B34	2034	2068
Number of Blows	42	28	26	20	13
Wt Dish & Wet Soil	12.64	13.49	13.67	12.67	12.26
Wt Dish & Dry Soil	10.42	11.15	11.16	10.28	9.86
Wt of Moisture	2.22	2.34	2.51	2.39	2.40
Wt of Dish	1.05	1.59	1.03	1.04	1.06
Wt of Dry Soil	9.37	9.56	10.13	9.24	8.80
Moisture Content	23.69	24.48	24.78	25.87	27.27

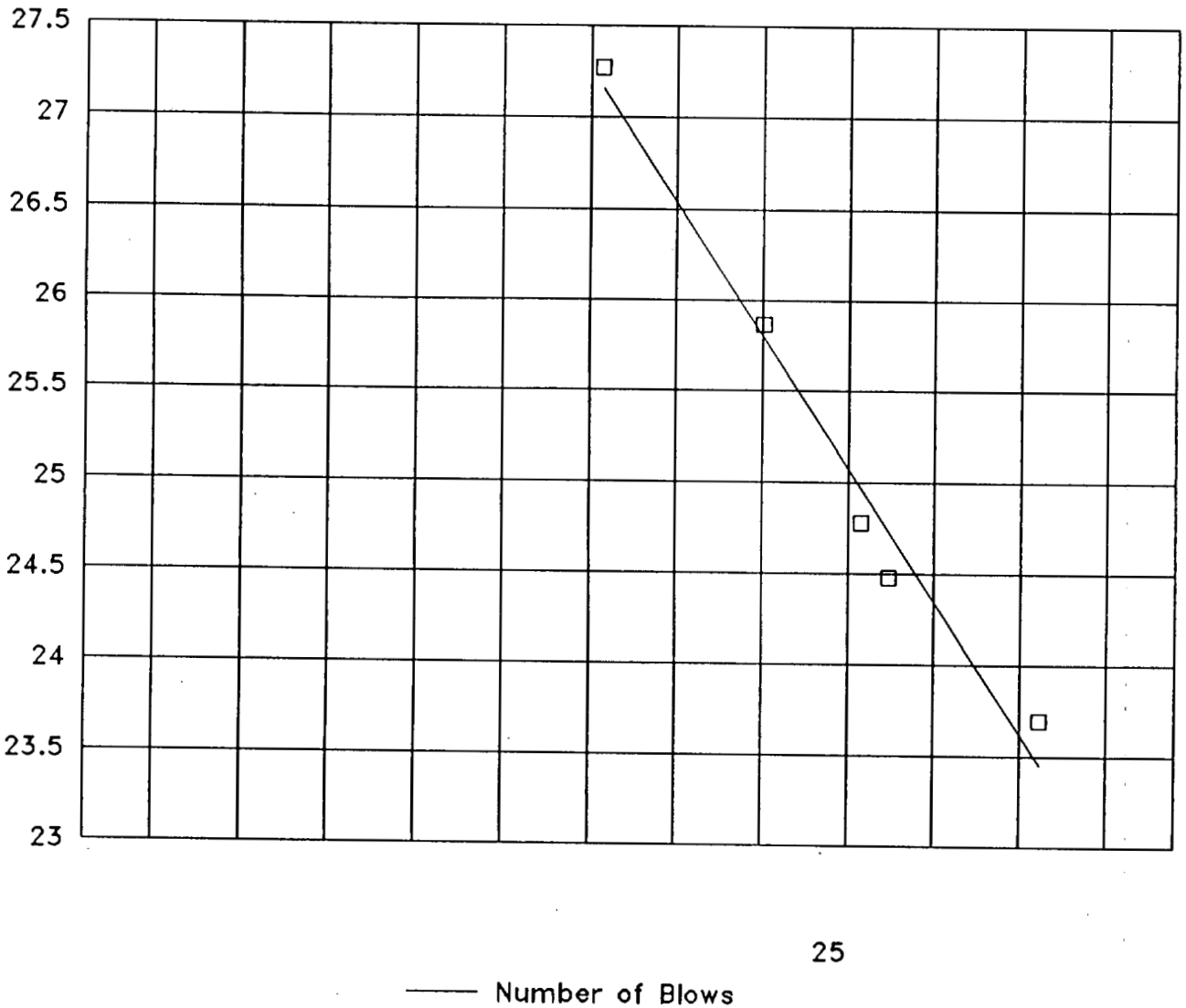
Liquid Limit	25.1
Plastic Limit	14.8
Plasticity Index	10.3

Atterberg Classification CL

Data entry by: NAA Date: 6-19-95
Checked by: MGJ Date: 6-21-95
FileName: SAG05105 ADVANCED TERRA TESTING, INC.

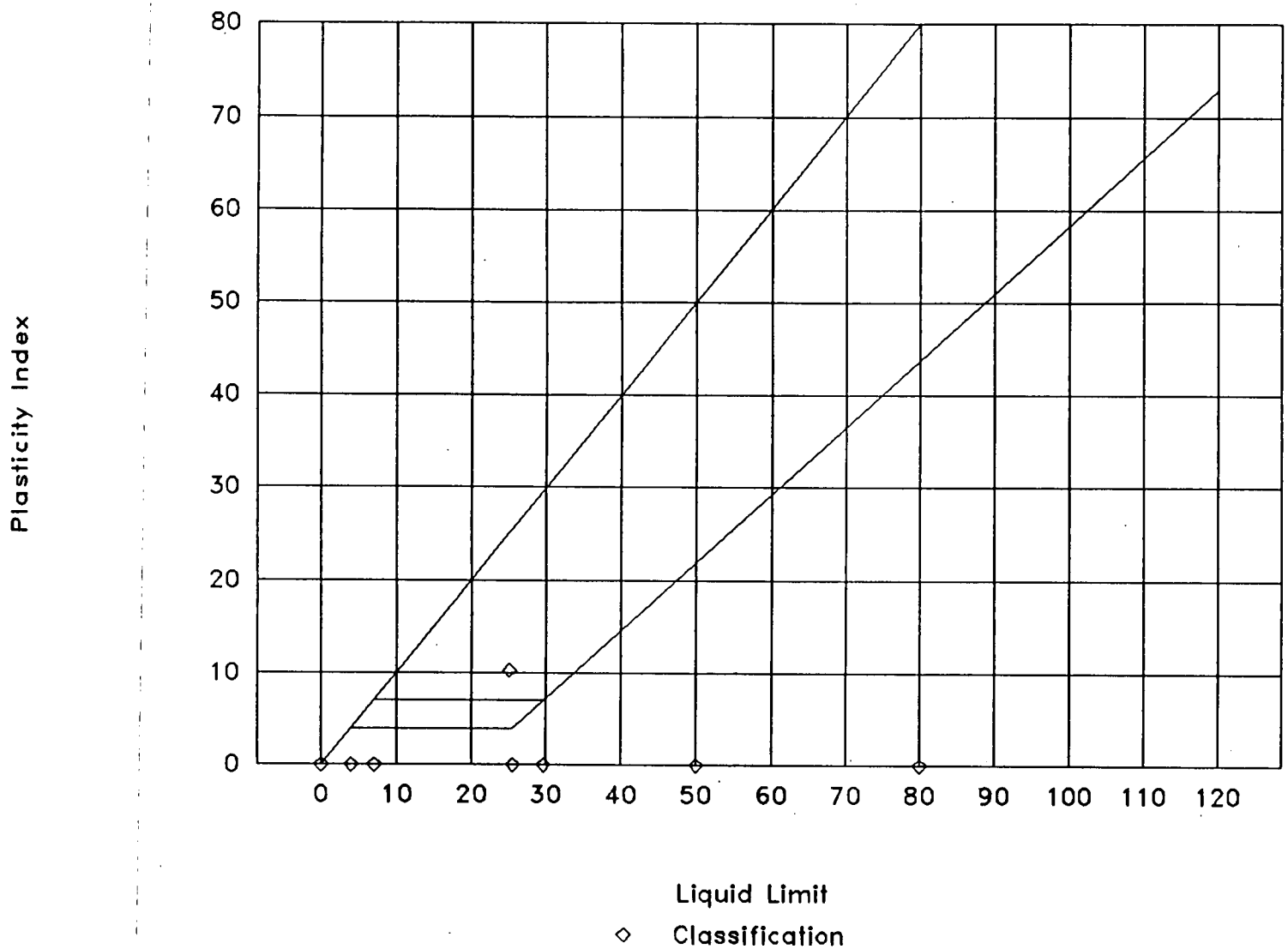
Atterberg Limits, Flow Curve

G2-132, 10.0-12.0', 405105



PLASTICITY CHART

G2-132, 10.0-12.0', 405105



ATTERBERG LIMITS TEST
ASTM D 4318

CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13H

BORING NO.	G2-132	SAMPLED	4-27-95 MM
DEPTH	15.0-17.0'	TEST STARTED	6-19-95 MGJ
SAMPLE NO.	405108	TEST FINISHED	6-20-95 MGJ
SOIL DESCR.	Fernald		
TEST TYPE	ATTERBERG		

Plastic Limit
Determination

	1	2	3
Dish	31C	2008	18C
Wt Dish & Wet Soil	9.89	9.47	9.70
Wt Dish & Dry Soil	8.80	8.47	8.57
Wt of Moisture	1.09	1.00	1.13
Wt of Dish	1.07	1.07	1.05
Wt of Dry Soil	7.73	7.40	7.52
Moisture Content	14.10	13.51	15.03

Liquid Limit Device Number 0258
Determination

	1	2	3	4	5
Dish	4109	B28	B73	11C	B63
Number of Blows	34	23	21	17	13
Wt Dish & Wet Soil	12.04	16.07	13.90	16.70	14.73
Wt Dish & Dry Soil	9.93	13.13	11.35	13.46	11.80
Wt of Moisture	2.11	2.94	2.55	3.24	2.93
Wt of Dish	1.04	1.04	1.04	1.05	1.05
Wt of Dry Soil	8.89	12.09	10.31	12.41	10.75
Moisture Content	23.73	24.32	24.73	26.11	27.26

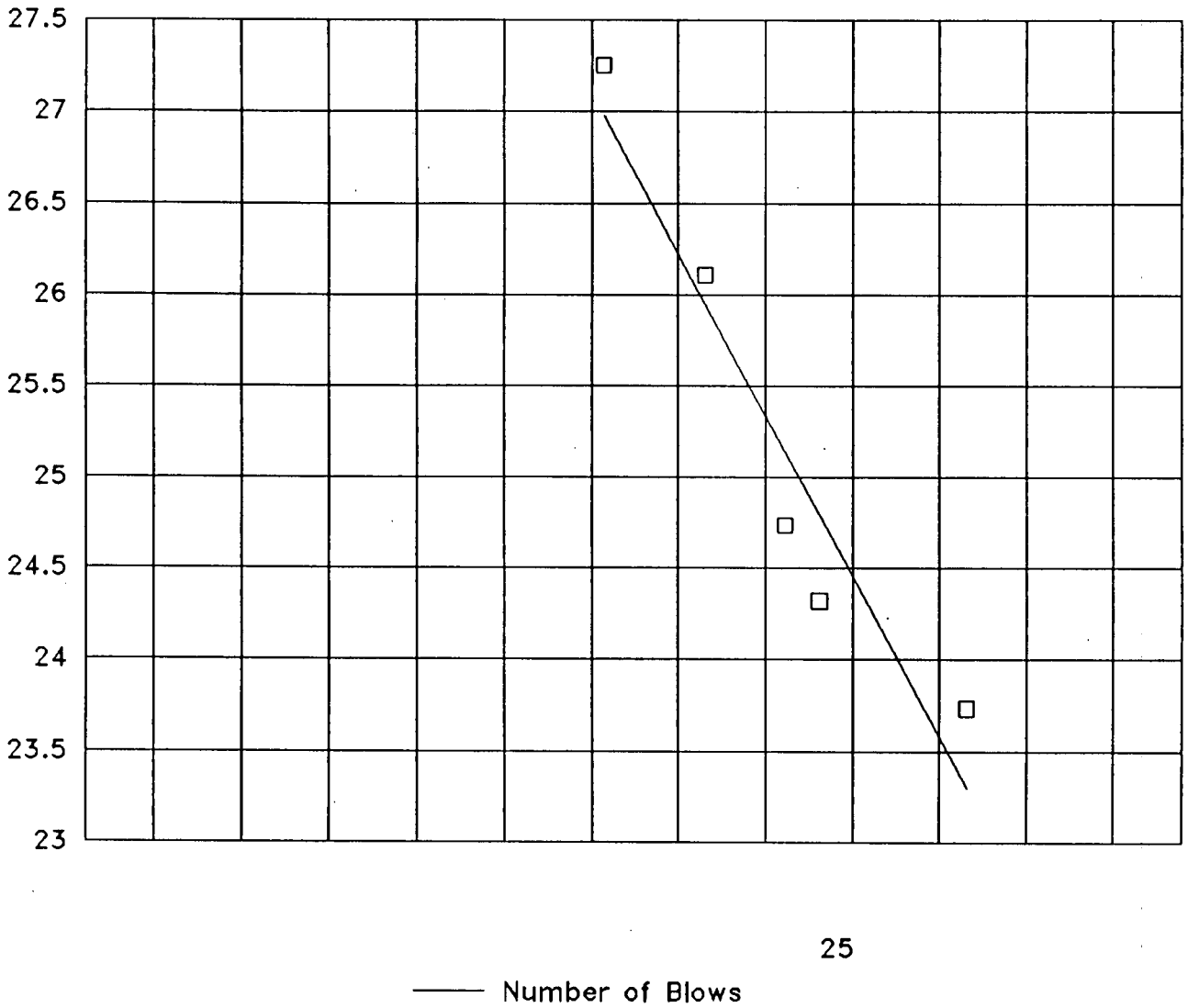
Liquid Limit	24.5
Plastic Limit	14.2
Plasticity Index	10.3

Atterberg Classification CL

Data entry by: NAA Date: 6-20-95
Checked by: WEB Date: 6-20-95
FileName: SAG05108 ADVANCED TERRA TESTING, INC.

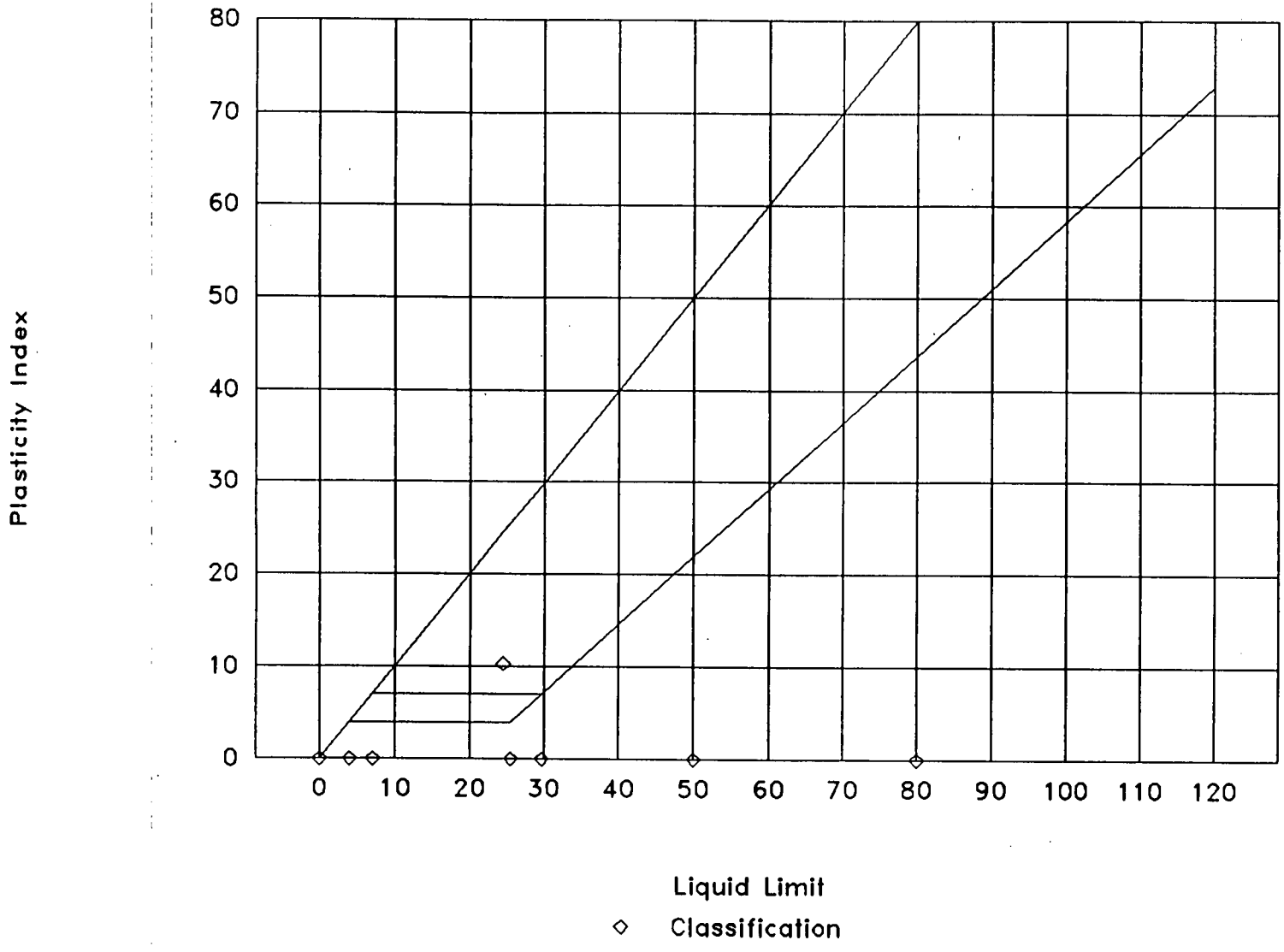
Atterberg Limits, Flow Curve

G2-132, 15.0-17.0', 405108



PLASTICITY CHART

G2-132, 15.0-17.0', 405108



ATTERBERG LIMITS TEST
ASTM D 4318

CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13H

BORING NO.	G2-132	SAMPLED	4-21-95
DEPTH	20.0-22.0'	TEST STARTED	6-12-95 WEB
SAMPLE NO.	405111	TEST FINISHED	6-13-95 WEB
SOIL DESCR.	Fernald		
TEST TYPE	ATTERBERG		

Plastic Limit
Determination

	1	2	3
Dish	B2	2074	2042
Wt Dish & Wet Soil	8.37	8.53	9.21
Wt Dish & Dry Soil	7.44	7.56	8.16
Wt of Moisture	0.93	0.97	1.05
Wt of Dish	1.05	1.04	1.06
Wt of Dry Soil	6.39	6.52	7.10
Moisture Content	14.55	14.88	14.79

Liquid Limit Device Number 0258
Determination

	1	2	3	4	5
Dish	2062	2054	B25	8C	17C
Number of Blows	44	32	26	21	9
Wt Dish & Wet Soil	26.78	24.55	27.22	28.21	30.23
Wt Dish & Dry Soil	22.41	20.44	22.24	22.84	23.85
Wt of Moisture	4.37	4.11	4.98	5.37	6.38
Wt of Dish	1.04	1.05	1.05	1.04	1.06
Wt of Dry Soil	21.37	19.39	21.19	21.80	22.79
Moisture Content	20.45	21.20	23.50	24.63	27.99

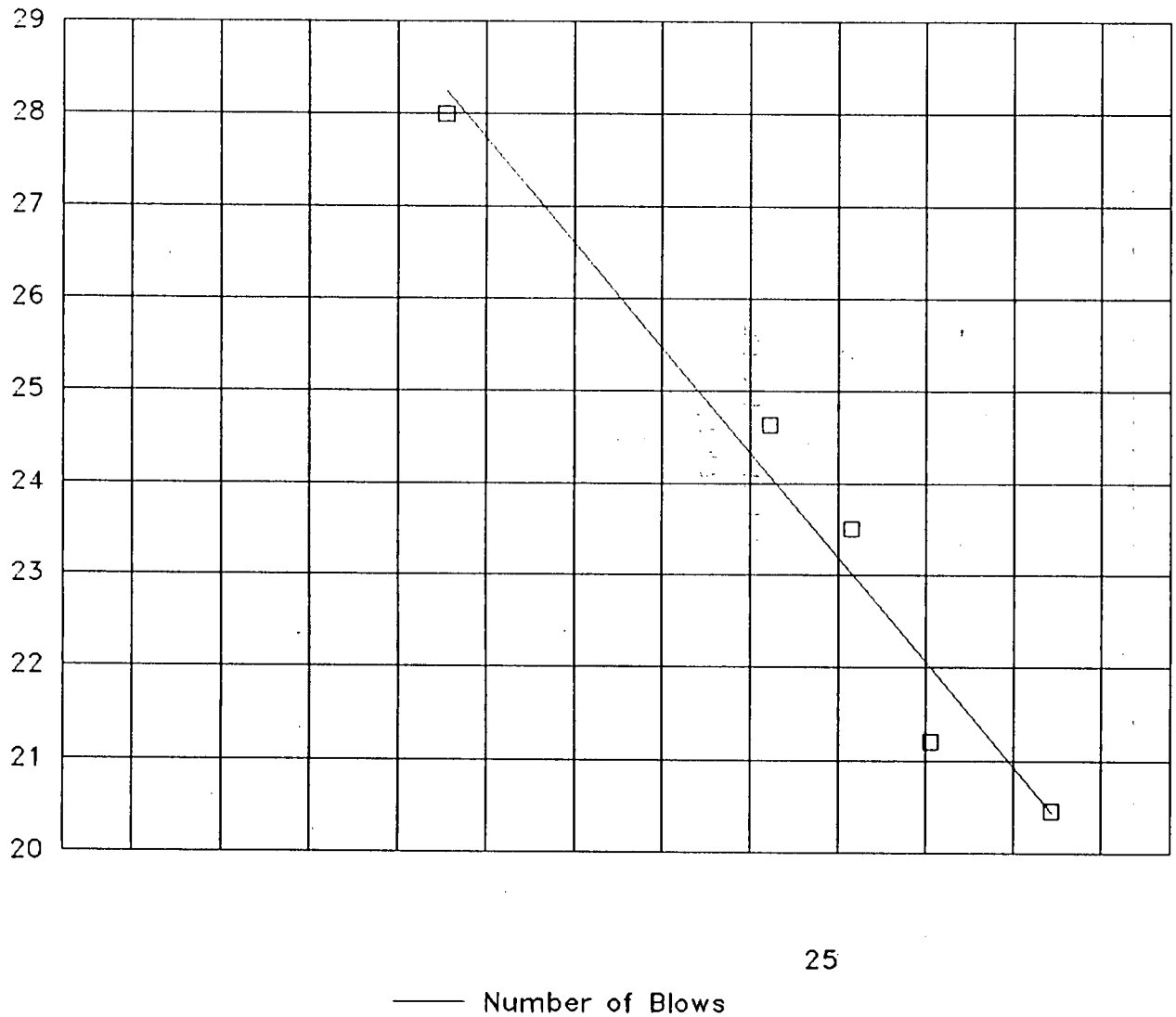
Liquid Limit	23.2
Plastic Limit	14.7
Plasticity Index	8.5

Atterberg Classification CL

Data entry by: NAA Date: 6-13-95
Checked by: WEB Date: 6-15-95
FileName: SAG05111 ADVANCED TERRA TESTING, INC.

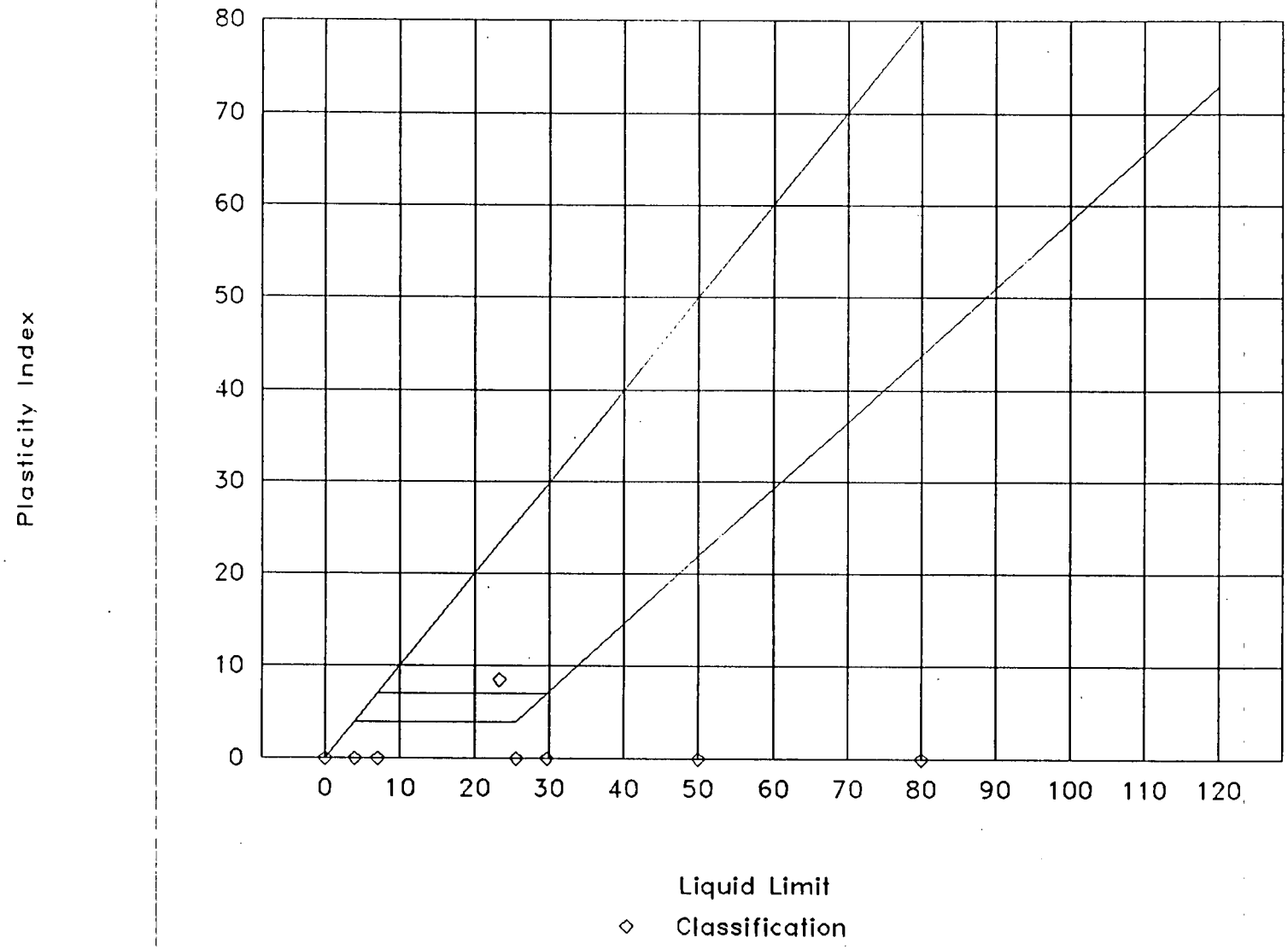
Atterberg Limits, Flow Curve

G2-132, 20.0-22.0', 405111



PLASTICITY CHART

G2-132, 20.0-22.0', 405111



ATTERBERG LIMITS TEST
ASTM D 4318

CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13D
BORING NO.	G2-133	SAMPLED	4-21-95
DEPTH	2.5-4.5'	TEST STARTED	7-27-95 RV
SAMPLE NO.	405053	TEST FINISHED	7-27-95 RV
SOIL DESCR.	Fernald		
TEST TYPE	ATTERBERG		

Plastic Limit
Determination

	1	2	3
Dish	2027	B44	2072
Wt Dish & Wet Soil	3.78	4.70	6.69
Wt Dish & Dry Soil	3.39	4.17	5.88
Wt of Moisture	0.39	0.53	0.81
Wt of Dish	1.05	1.06	1.06
Wt of Dry Soil	2.34	3.11	4.82
Moisture Content	16.67	17.04	16.80

Liquid Limit Device Number 0258
Determination

	1	2	3	4	5
Dish	4106	B18	48C	2029	2065
Number of Blows	30	22	18	14	8
Wt Dish & Wet Soil	11.98	10.69	11.12	11.22	10.67
Wt Dish & Dry Soil	8.52	7.58	7.79	7.81	7.34
Wt of Moisture	3.46	3.11	3.33	3.41	3.33
Wt of Dish	1.04	1.07	1.04	1.06	1.06
Wt of Dry Soil	7.48	6.51	6.75	6.75	6.28
Moisture Content	46.26	47.77	49.33	50.52	53.03

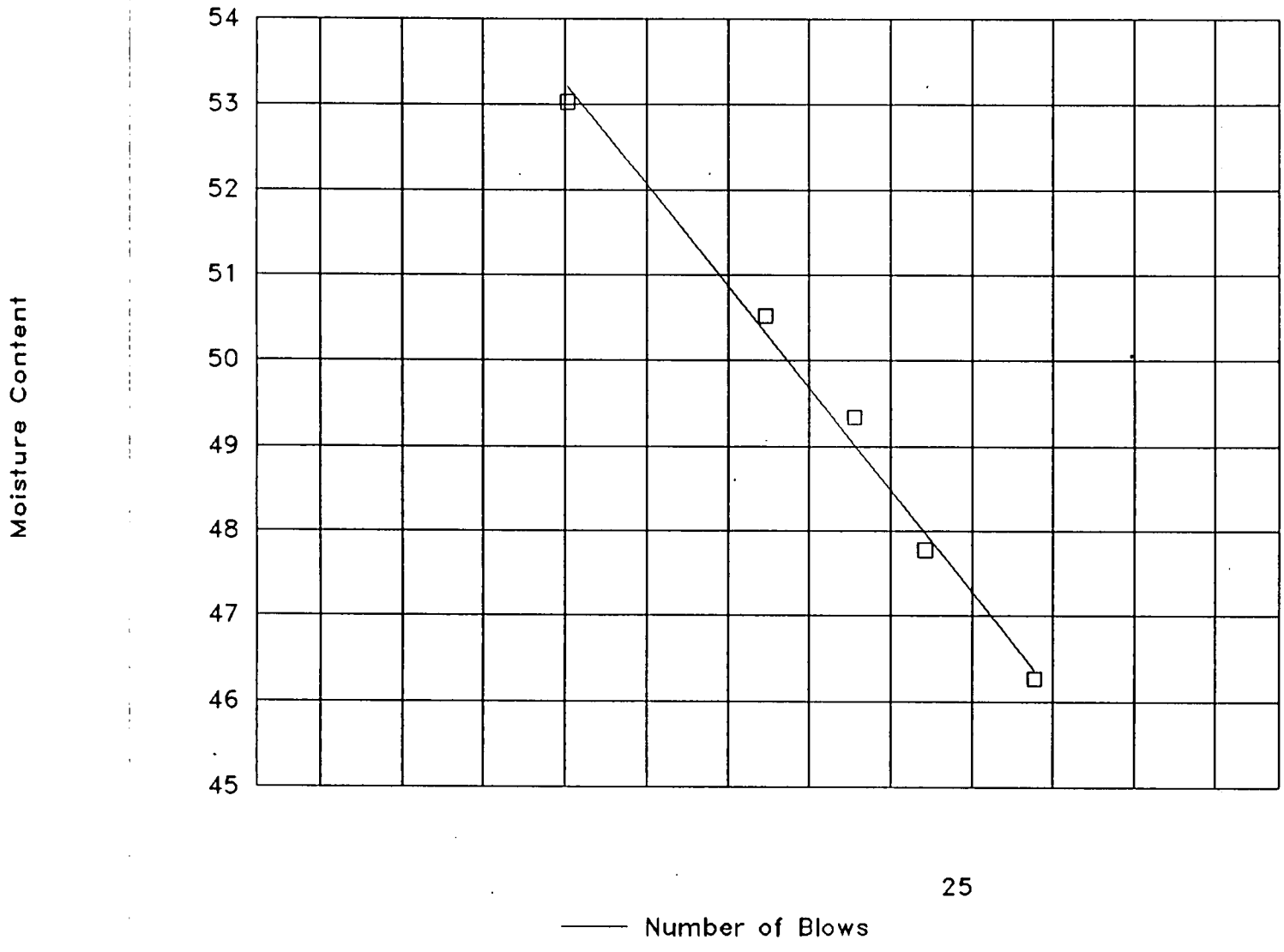
Liquid Limit	47.3
Plastic Limit	16.8
Plasticity Index	30.5

Atterberg Classification CL

Data entry by: CJW Date: 7-28-95
Checked by: WEB Date: 7-30-95
FileName: SAG05053 ADVANCED TERRA TESTING, INC.

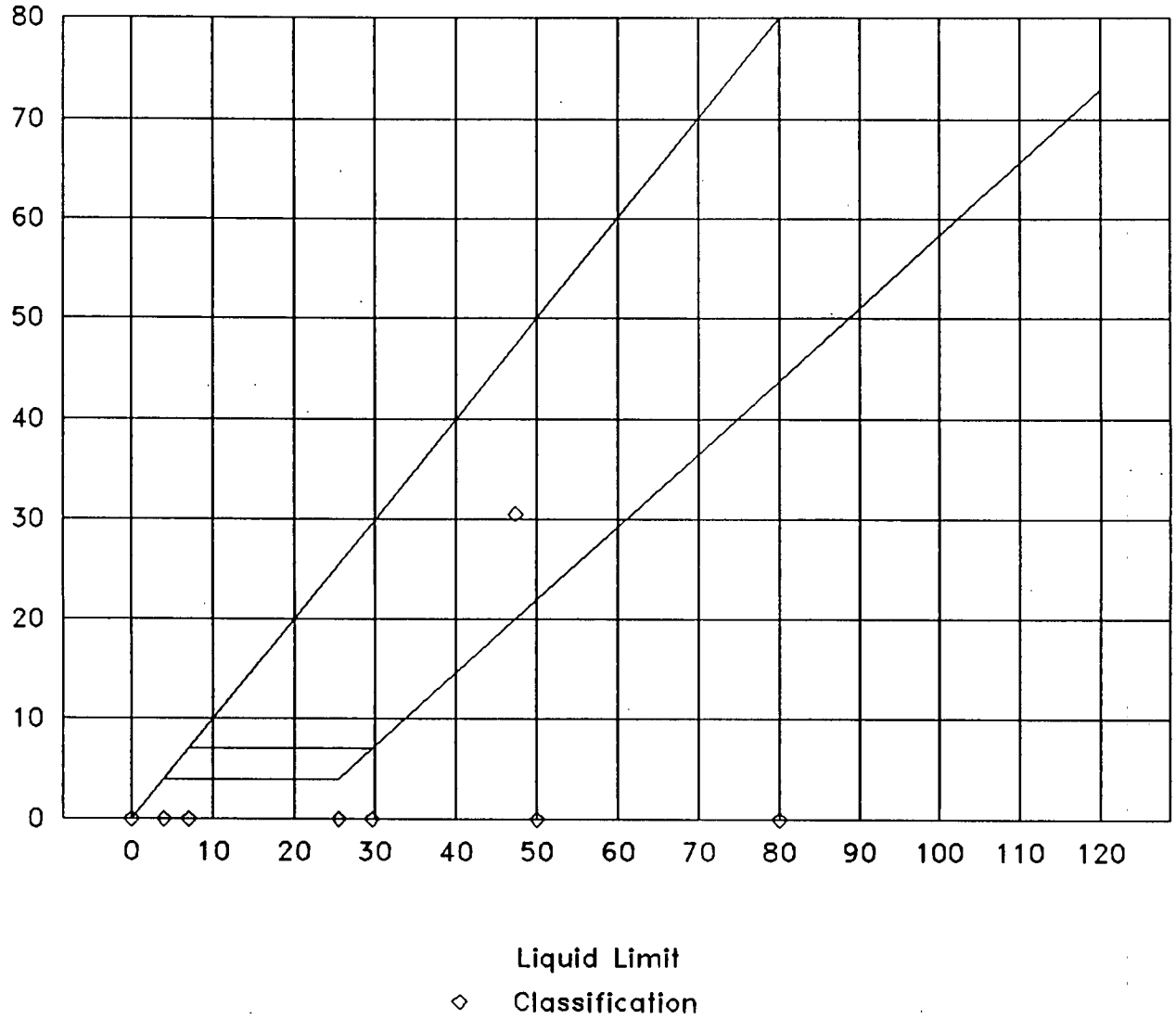
Atterberg Limits, Flow Curve

G2-133, 2.5-4.5', 405053



PLASTICITY CHART

G2-133, 2.5-4.5', 405053



ATTERBERG LIMITS TEST
ASTM D 4318

CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13D
BORING NO.	G2-133	SAMPLED	4-21-95 MM
DEPTH	7.5-9.5'	TEST STARTED	6-15-95 MGJ
SAMPLE NO.	405055	TEST FINISHED	6-16-95 MGJ
SOIL DESCR.	Fernald		
TEST TYPE	ATTERBERG		

Plastic Limit
Determination

	1	2	3
Dish	B6	0C	4102
Wt Dish & Wet Soil	12.37	13.67	14.91
Wt Dish & Dry Soil	10.86	11.99	13.08
Wt of Moisture	1.51	1.68	1.83
Wt of Dish	1.05	1.07	1.04
Wt of Dry Soil	9.81	10.92	12.04
Moisture Content	15.39	15.38	15.20

Liquid Limit Device Number 0258
Determination

	1	2	3	4	5
Dish	4111	4C	2010	1C	22
Number of Blows	42	31	29	25	18
Wt Dish & Wet Soil	13.35	11.49	14.56	14.38	14.77
Wt Dish & Dry Soil	10.90	9.35	11.77	11.53	11.75
Wt of Moisture	2.45	2.14	2.79	2.85	3.02
Wt of Dish	1.05	1.06	1.07	1.06	1.06
Wt of Dry Soil	9.85	8.29	10.70	10.47	10.69
Moisture Content	24.87	25.81	26.07	27.22	28.25

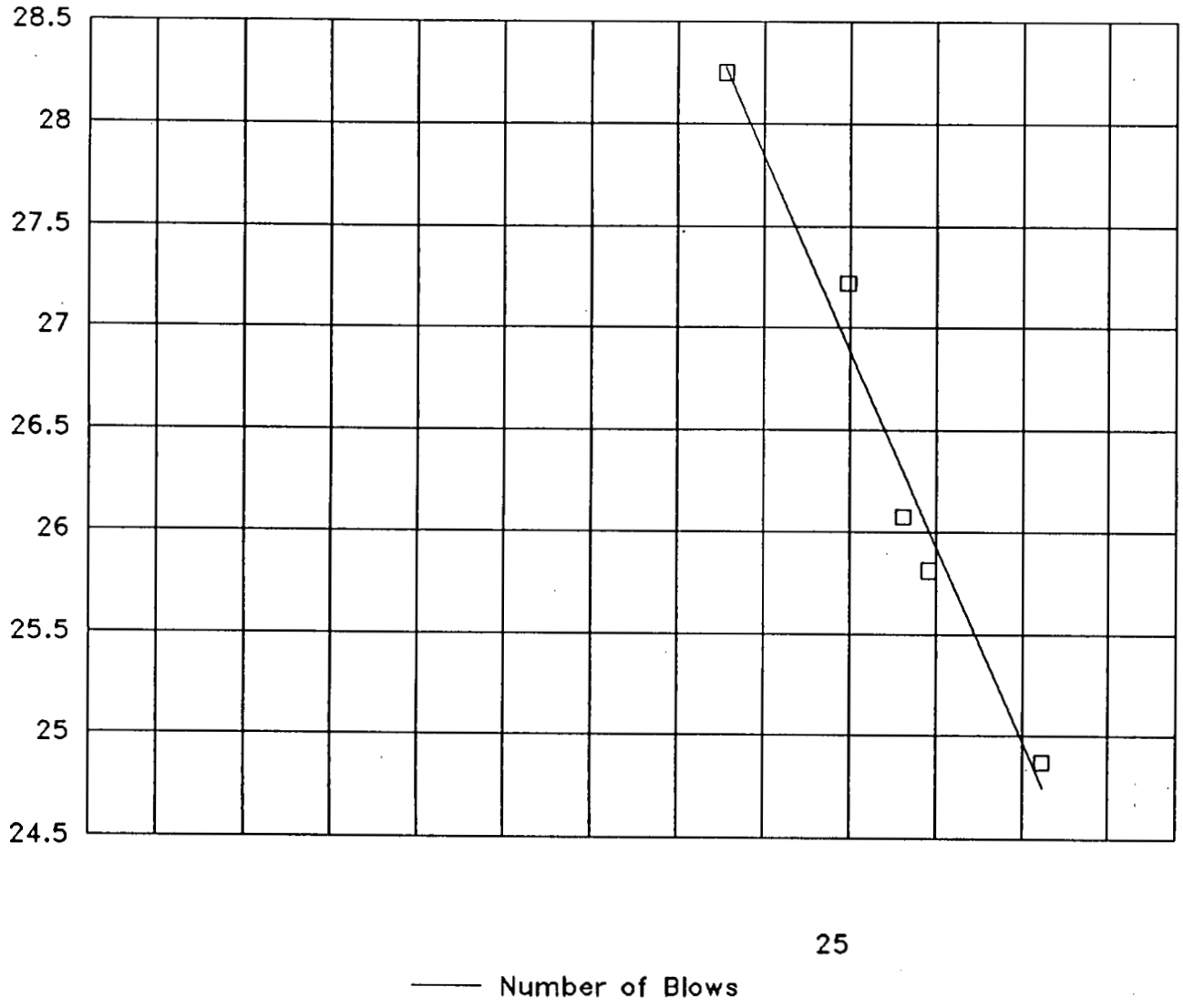
Liquid Limit	26.9
Plastic Limit	15.3
Plasticity Index	11.6

Atterberg Classification CL

Data entry by: NAA Date: 6-19-95
Checked by: WEB Date: 6-20-95
FileName: SAG05055 ADVANCED TERRA TESTING, INC.

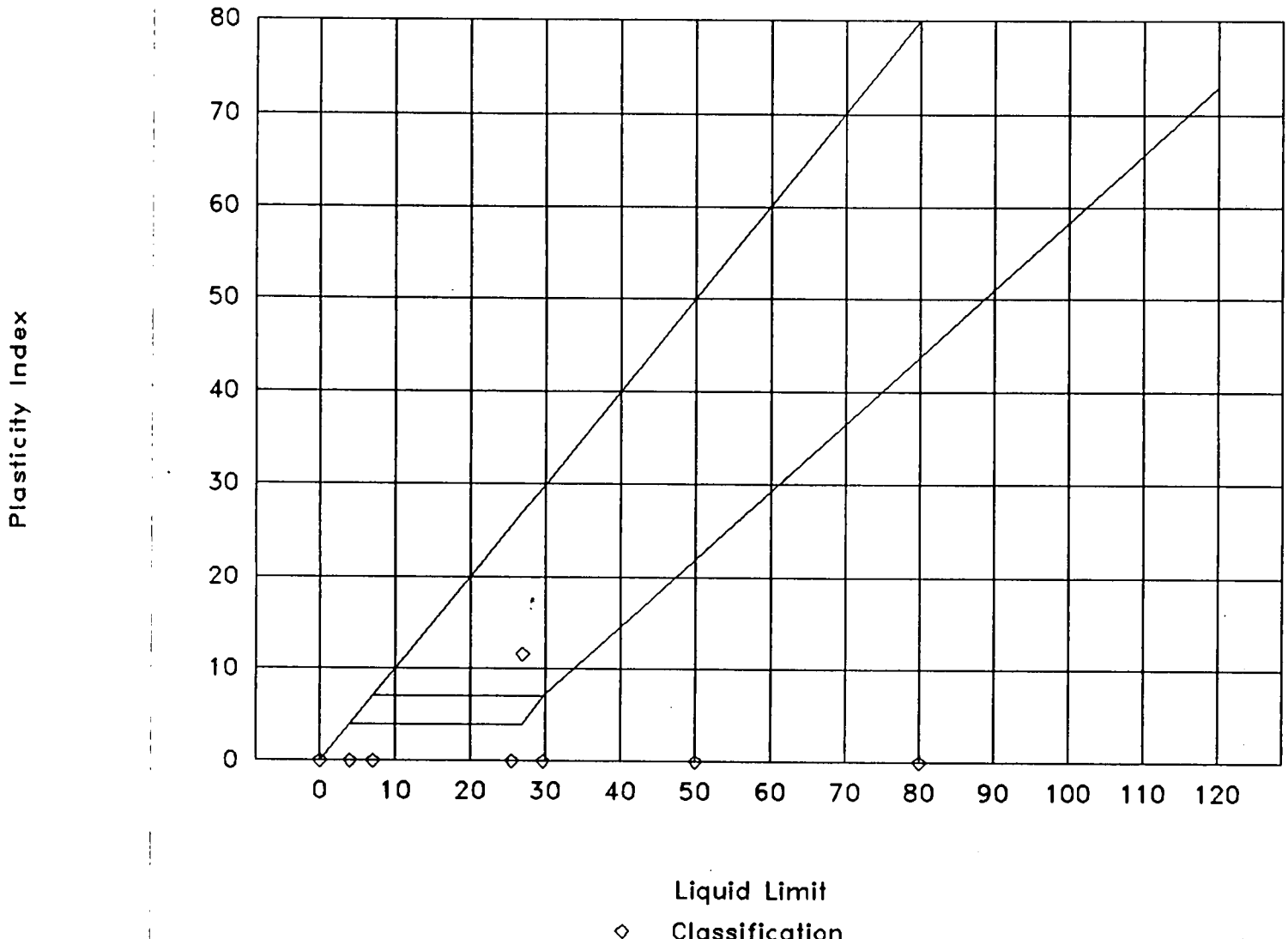
Atterberg Limits, Flow Curve

G2-133, 7.5-9.5', 405055



PLASTICITY CHART

G2-133, 7.5-9.5', 405055



ATTERBERG LIMITS TEST
ASTM D 4318

CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13D
BORING NO.	G2-133	SAMPLED	4-21-95 MM
DEPTH	15.0-17.0'	TEST STARTED	6-16-95 CAL
SAMPLE NO.	405059	TEST FINISHED	6-17-95 CAL
SOIL DESCR.	Fernald		
TEST TYPE	ATTERBERG		

Plastic Limit
Determination

	1	2	3
Dish	15C	2019	2013
Wt Dish & Wet Soil	4.81	3.86	5.69
Wt Dish & Dry Soil	4.37	3.55	5.16
Wt of Moisture	0.44	0.31	0.53
Wt of Dish	1.05	1.07	1.06
Wt of Dry Soil	3.32	2.48	4.10
Moisture Content	13.25	12.50	12.93

Liquid Limit Device Number 0258
Determination

	1	2	3	4
Dish	B12	54C	2024	4103
Number of Blows	40	34	19	15
Wt Dish & Wet Soil	10.48	10.47	10.40	10.21
Wt Dish & Dry Soil	8.88	8.82	8.67	8.45
Wt of Moisture	1.60	1.65	1.73	1.76
Wt of Dish	1.06	1.06	1.07	1.05
Wt of Dry Soil	7.82	7.76	7.60	7.40
Moisture Content	20.46	21.26	22.76	23.78

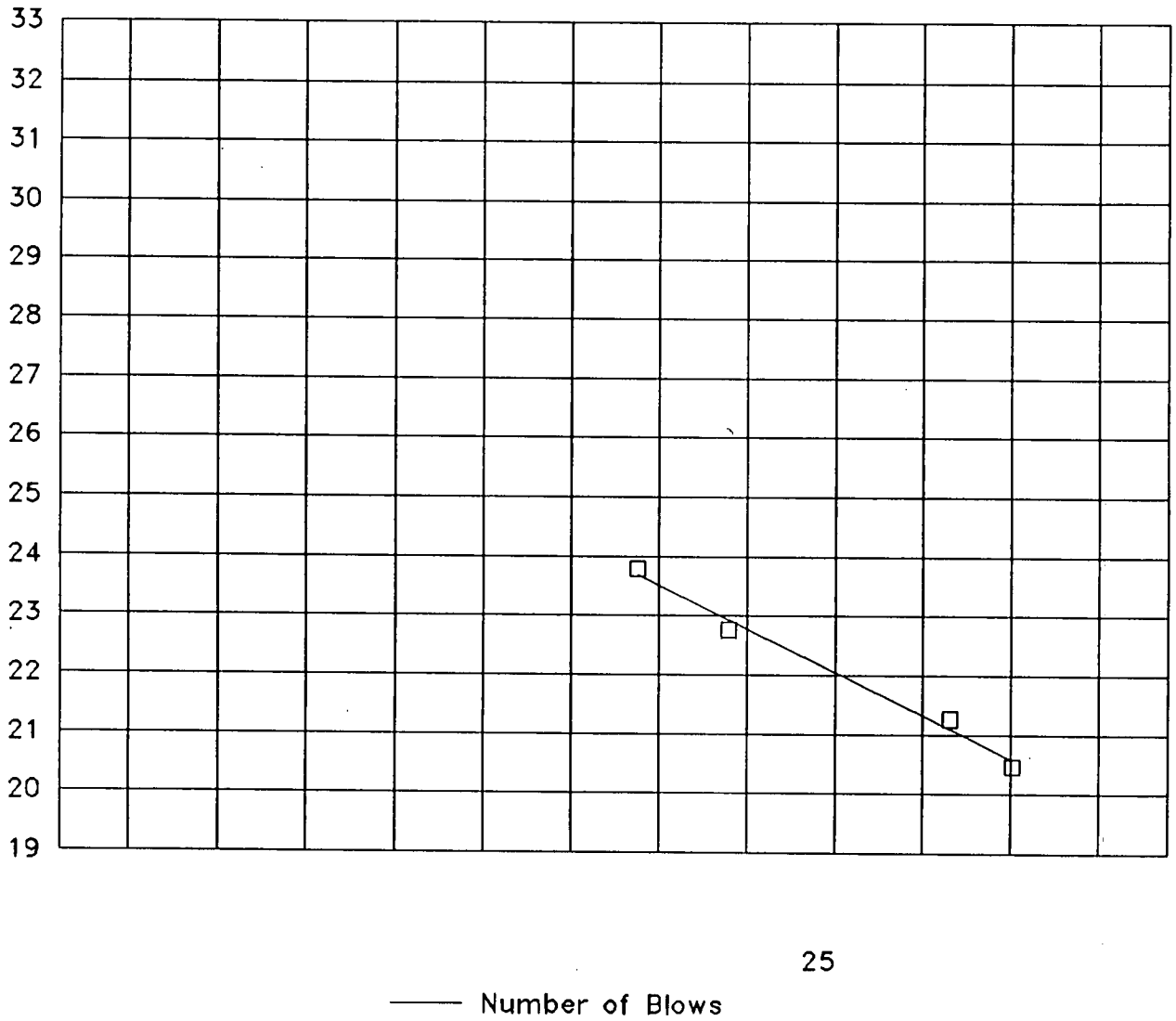
Liquid Limit	22.1
Plastic Limit	12.9
Plasticity Index	9.2

Atterberg Classification CL

Data entry by: NAA Date: 6-19-95
Checked by: cal Date: 6-22-95
FileName: SAG05059 ADVANCED TERRA TESTING, INC.

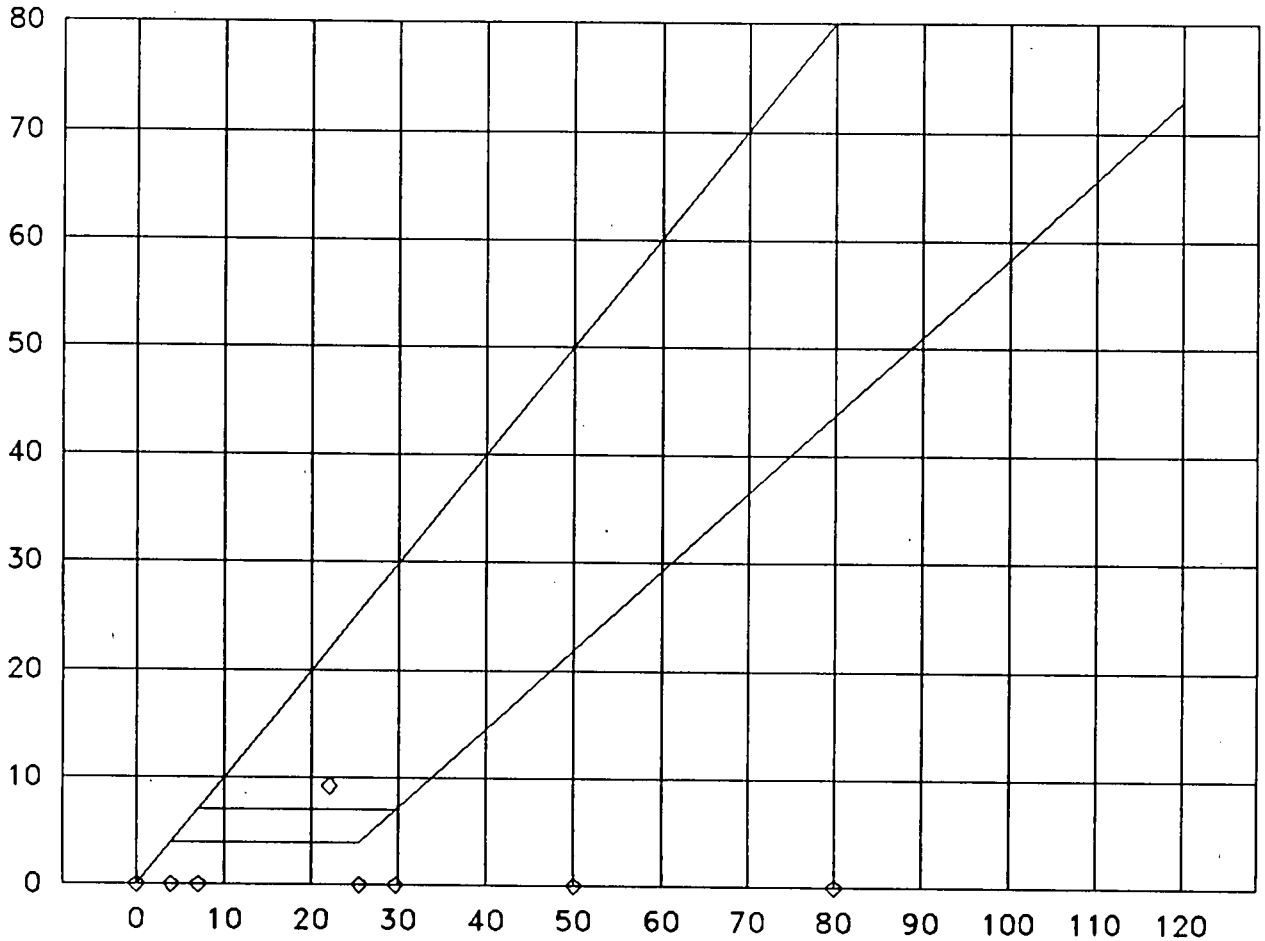
Atterberg Limits, Flow Curve

G2-133, 15.0-17.0', 405059



PLASTICITY CHART

G2-133, 15.0-17.0', 405059



Liquid Limit

◇ Classification

ATTERBERG LIMITS TEST
ASTM D 4318

CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13D
BORING NO.	G2-133	SAMPLED	4-21-95 MM
DEPTH	17.5-19.5'	TEST STARTED	6-12-95 MJ
SAMPLE NO.	405061	TEST FINISHED	6-14-95 MJ
SOIL DESCR.	Fernald		
TEST TYPE	ATTERBERG		

Plastic Limit
Determination

	1	2	3
Dish	B53	43C	
Wt Dish & Wet Soil	10.00	11.65	
Wt Dish & Dry Soil	8.88	10.34	
Wt of Moisture	1.12	1.31	
Wt of Dish	1.05	1.04	
Wt of Dry Soil	7.83	9.30	
Moisture Content	14.30	14.09	

Liquid Limit Device Number 0258
Determination

	1	2	3	4	5
Dish	B7	4002	4105	B57	20014
Number of Blows	43	38	34	24	15
Wt Dish & Wet Soil	12.93	14.74	11.98	11.43	12.93
Wt Dish & Dry Soil	10.77	12.20	9.89	9.39	10.48
Wt of Moisture	2.16	2.54	2.09	2.04	2.45
Wt of Dish	1.07	1.06	1.05	1.07	1.07
Wt of Dry Soil	9.70	11.14	8.84	8.32	9.41
Moisture Content	22.27	22.80	23.64	24.52	26.04

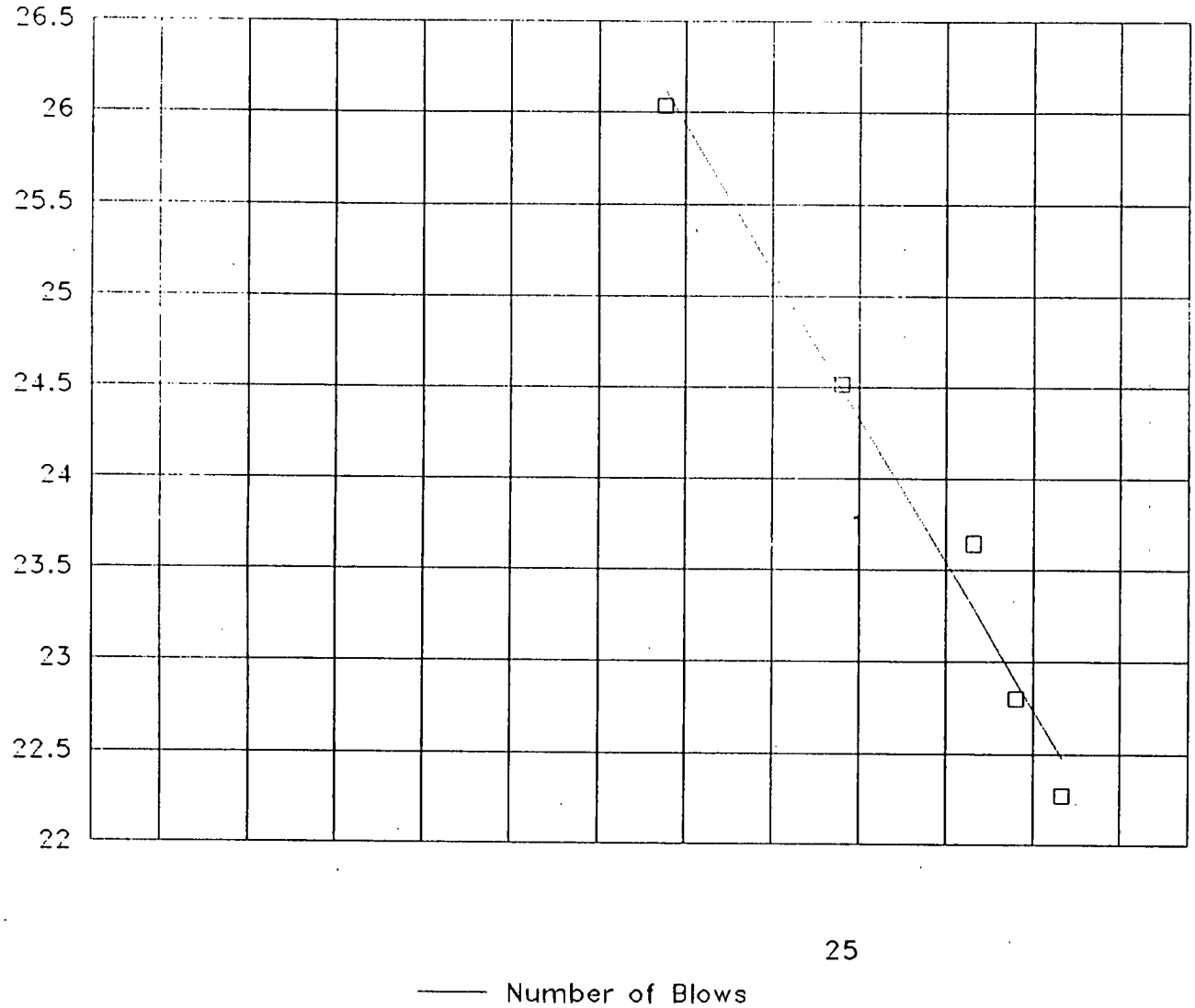
Liquid Limit	24.4
Plastic Limit	14.2
Plasticity Index	10.2

Atterberg Classification CL

Data entry by: NAA Date: 6-14-95
Checked by: [illegible] Date: 6-15-95
FileName: SAG05061 ADVANCED TERRA TESTING, INC.

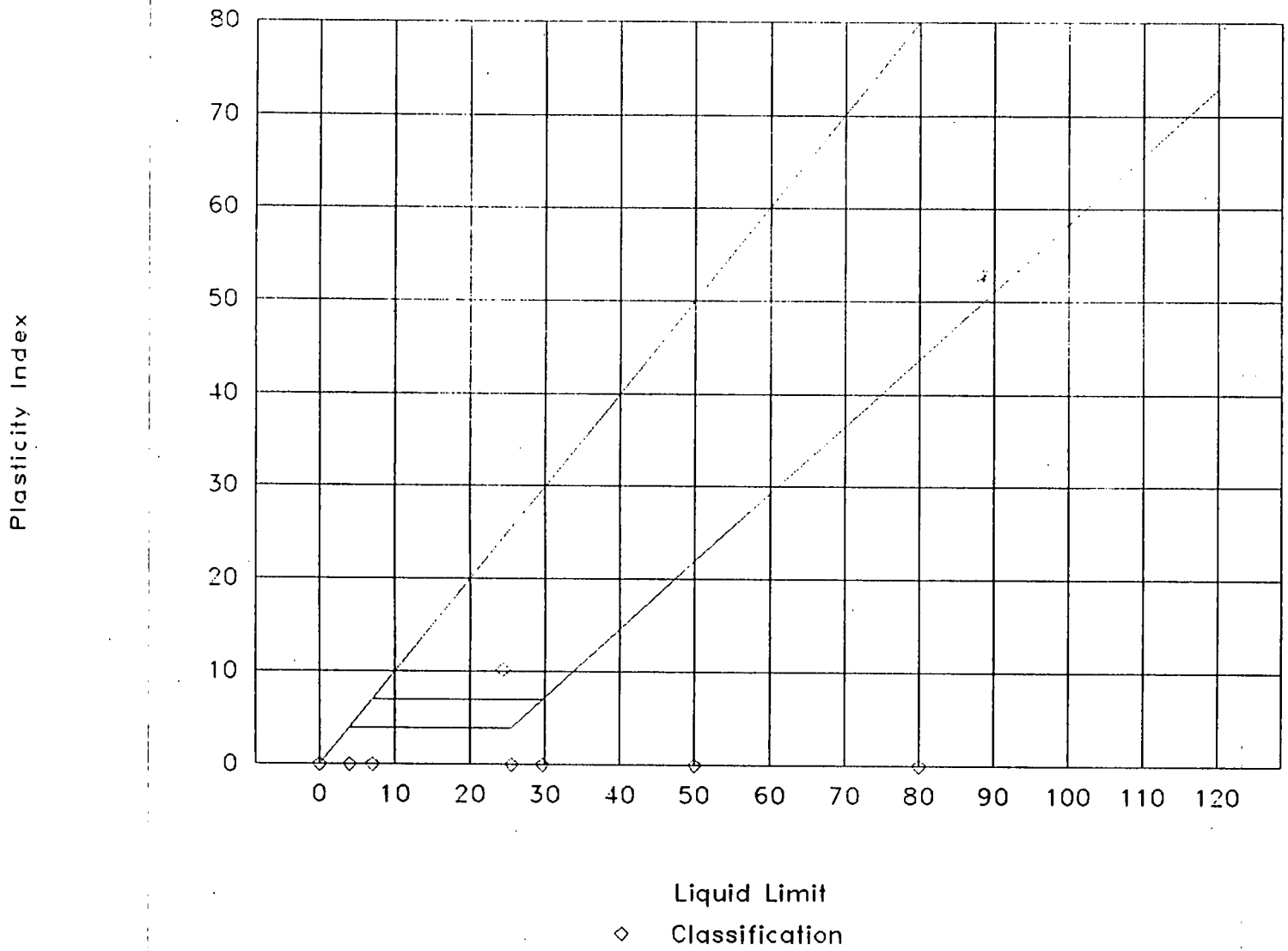
Atterberg Limits, Flow Curve

G2-133, 17.5-19.5', 405061



PLASTICITY CHART

G2-133, 17.5-19.5', 405061



ATTERBERG LIMITS TEST

ASTM D 4318

CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13D

BORING NO.	G2-133	SAMPLED	4-24-95
DEPTH	25.0-27.0'	TEST STARTED	6-16-95 CAL
SAMPLE NO.	405065	TEST FINISHED	6-17-95 CAL
SOIL DESCR.	Fernald		
TEST TYPE	ATTERBERG		

Plastic Limit Determination

	1	2	3
Dish	24	4100	B72
Wt Dish & Wet Soil	4.53	6.21	6.22
Wt Dish & Dry Soil	4.11	5.57	5.57
Wt of Moisture	0.42	0.64	0.65
Wt of Dish	1.04	1.05	1.05
Wt of Dry Soil	3.07	4.52	4.52
Moisture Content	13.68	14.16	14.38

Liquid Limit Determination Device Number 0258

	1	2	3	4	5
Dish	34CX	12C	B26	36C	B11
Number of Blows	33	32	23	18	14
Wt Dish & Wet Soil	11.49	12.40	12.98	10.71	11.29
Wt Dish & Dry Soil	9.42	10.13	10.52	8.65	9.04
Wt of Moisture	2.07	2.27	2.46	2.06	2.25
Wt of Dish	1.05	1.06	1.05	1.04	1.05
Wt of Dry Soil	8.37	9.07	9.47	7.61	7.99
Moisture Content	24.73	25.03	25.98	27.07	28.16

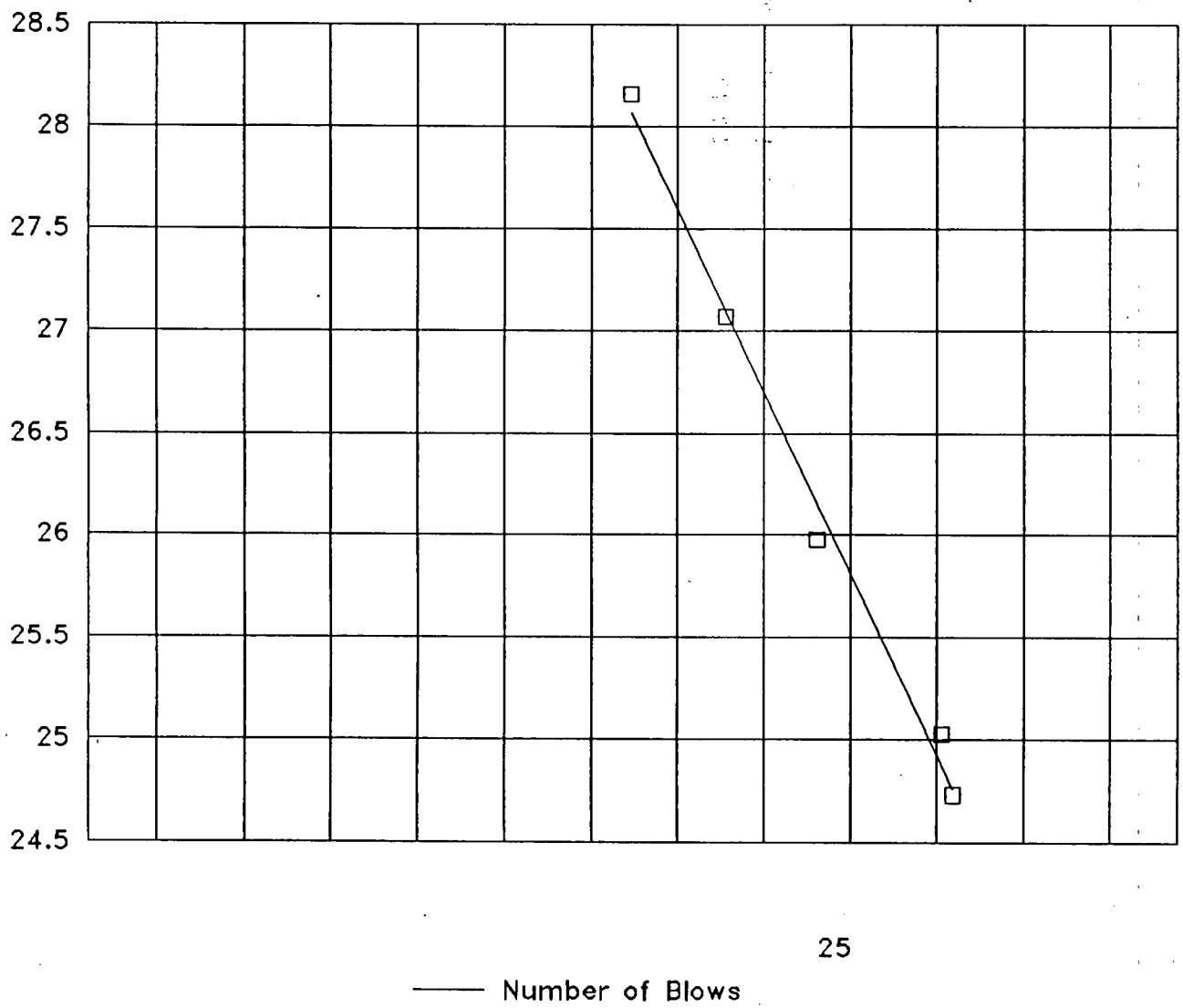
Liquid Limit	25.8
Plastic Limit	14.1
Plasticity Index	11.8

Atterberg Classification CL

Data entry by: NAA Date: 6-19-95
Checked by: Cal Date: 6-20-95
FileName: SAG05065 ADVANCED TERRA TESTING, INC.

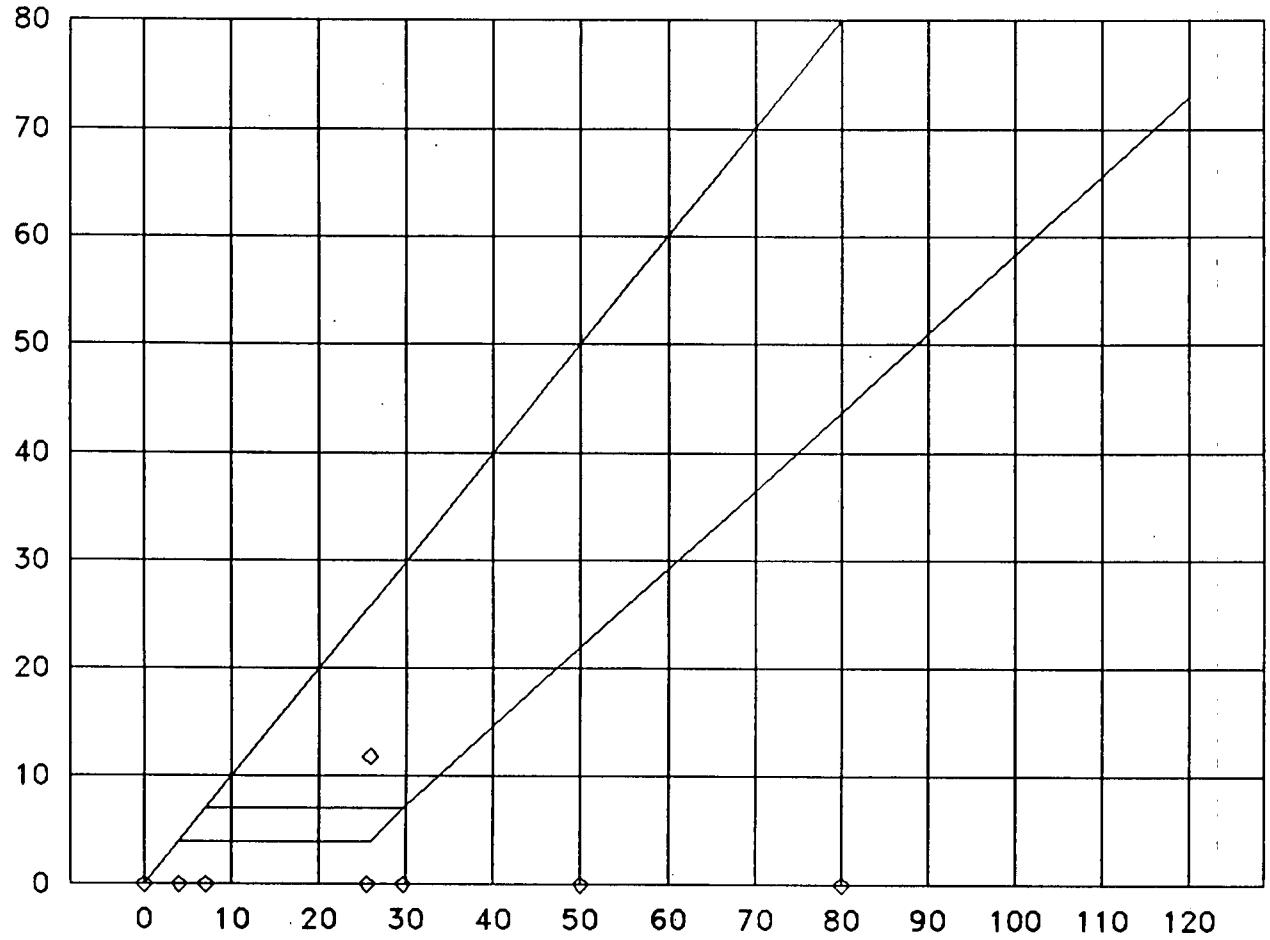
Atterberg Limits, Flow Curve

G2-133, 25.0-27.0', 405065



PLASTICITY CHART

G2-133, 25.0-27.0', 405065



◇ Classification

ATTERBERG LIMITS TEST
ASTM D 4318

CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13G

BORING NO.	G2-134	SAMPLED	5-3-95 MM
DEPTH	12.0-14.0'	TEST STARTED	6-14-95 WEB
SAMPLE NO.	405140	TEST FINISHED	6-15-95 WEB
SOIL DESCR.	Fernald		
TEST TYPE	ATTERBERG		

Plastic Limit
Determination

	1	2	3
Dish	2040	2025	10C
Wt Dish & Wet Soil	8.08	7.68	11.80
Wt Dish & Dry Soil	7.23	6.90	10.53
Wt of Moisture	0.85	0.78	1.27
Wt of Dish	1.04	1.06	1.04
Wt of Dry Soil	6.19	5.84	9.49
Moisture Content	13.73	13.36	13.38

Liquid Limit Device Number 0258
Determination

	1	2	3	4	5
Dish	2095	2020	B35	2005	2007
Number of Blows	41	32	18	27	12
Wt Dish & Wet Soil	23.91	28.40	27.49	27.60	31.06
Wt Dish & Dry Soil	19.62	23.14	22.13	22.46	24.56
Wt of Moisture	4.29	5.26	5.36	5.14	6.50
Wt of Dish	1.07	1.05	1.04	1.06	1.06
Wt of Dry Soil	18.55	22.09	21.09	21.40	23.50
Moisture Content	23.13	23.81	25.41	24.02	27.66

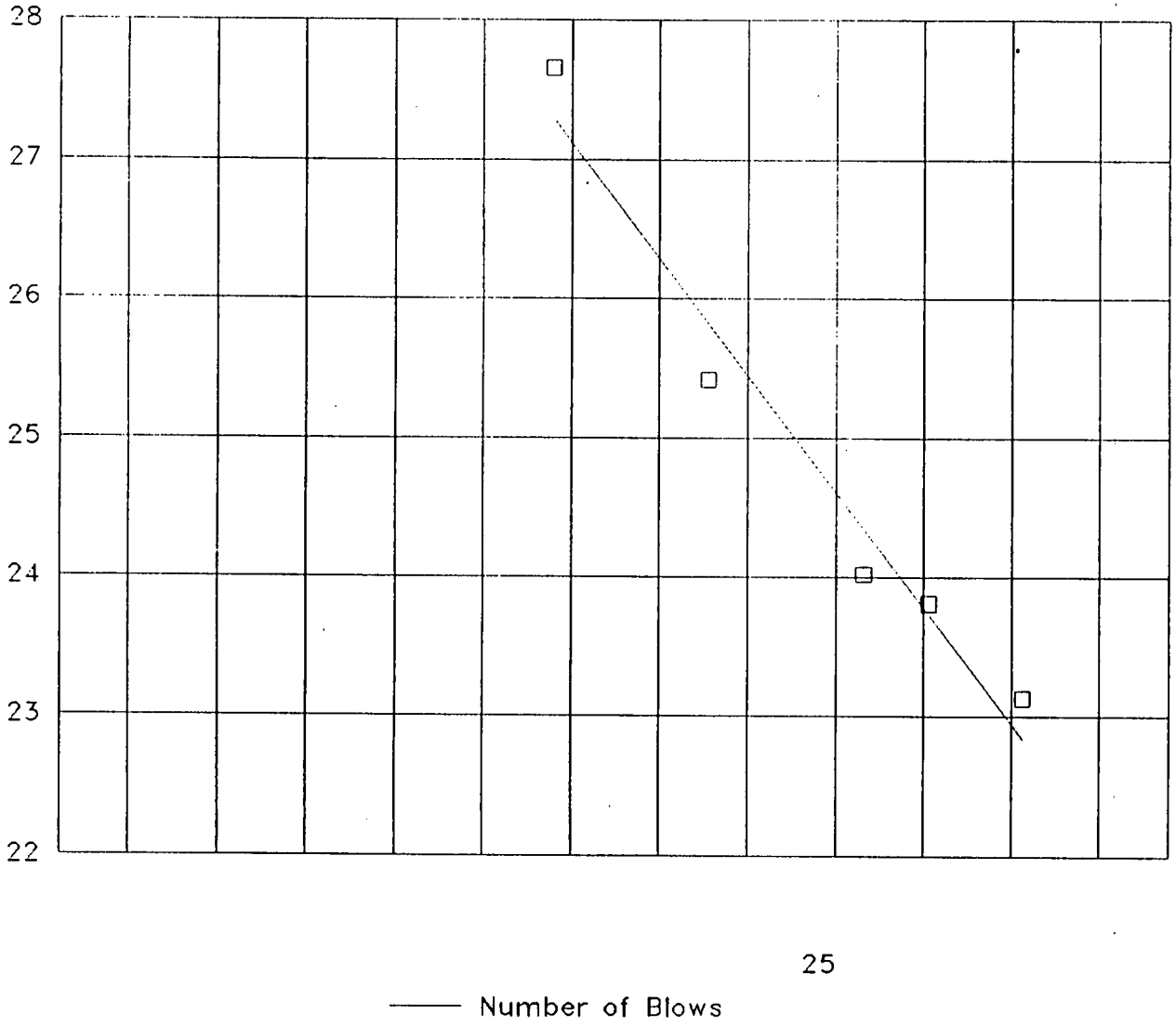
Liquid Limit	24.6
Plastic Limit	13.5
Plasticity Index	11.1

Atterberg Classification CL

Data entry by: NAA Date: 6-15-95
Checked by: WEB Date: 6-15-95
FileName: SAG05140 ADVANCED TERRA TESTING, INC.

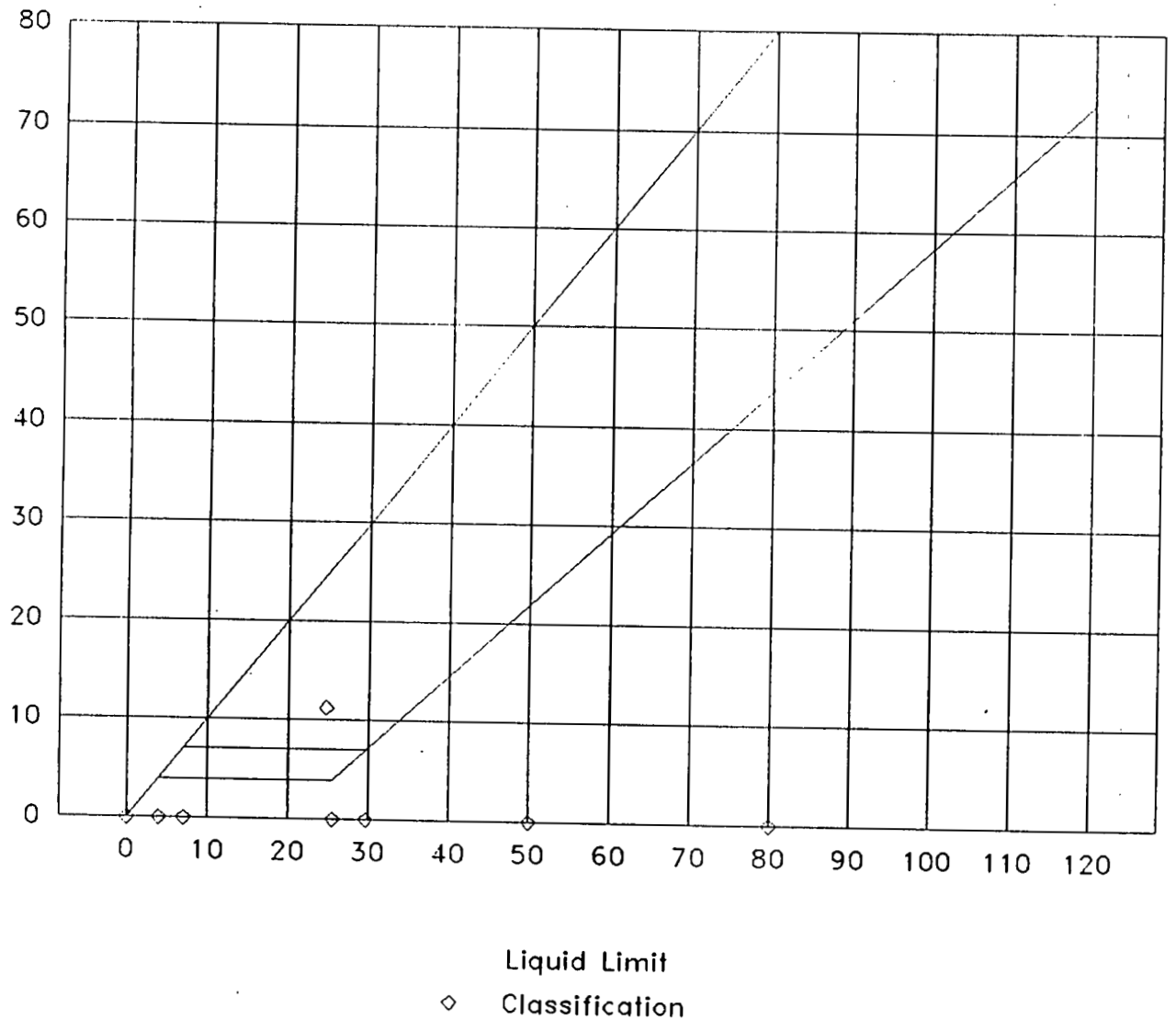
Atterberg Limits, Flow Curve

G2-134, 12.0-14.0', 405140



PLASTICITY CHART

G2-134, 12.0-14.0', 405140



ATTERBERG LIMITS TEST
ASTM D 4318

CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13I

BORING NO.	G2-SB-1	SAMPLED	4-24-95 JC, BN
DEPTH	1.5-5.0'	TEST STARTED	5-20-95 WEB
SAMPLE NO.	404608	TEST FINISHED	5-20-95 WEB
SOIL DESCR.	Fernald		
TEST TYPE	ATTERBERG		

Plastic Limit
Determination

	1	2	3
Dish	2C	B59	4115
Wt Dish & Wet Soil	6.03	5.57	5.20
Wt Dish & Dry Soil	5.26	4.88	4.52
Wt of Moisture	0.77	0.69	0.68
Wt of Dish	1.04	1.05	1.05
Wt of Dry Soil	4.22	3.83	3.47
Moisture Content	18.25	18.02	19.60

Liquid Limit Device Number
Determination

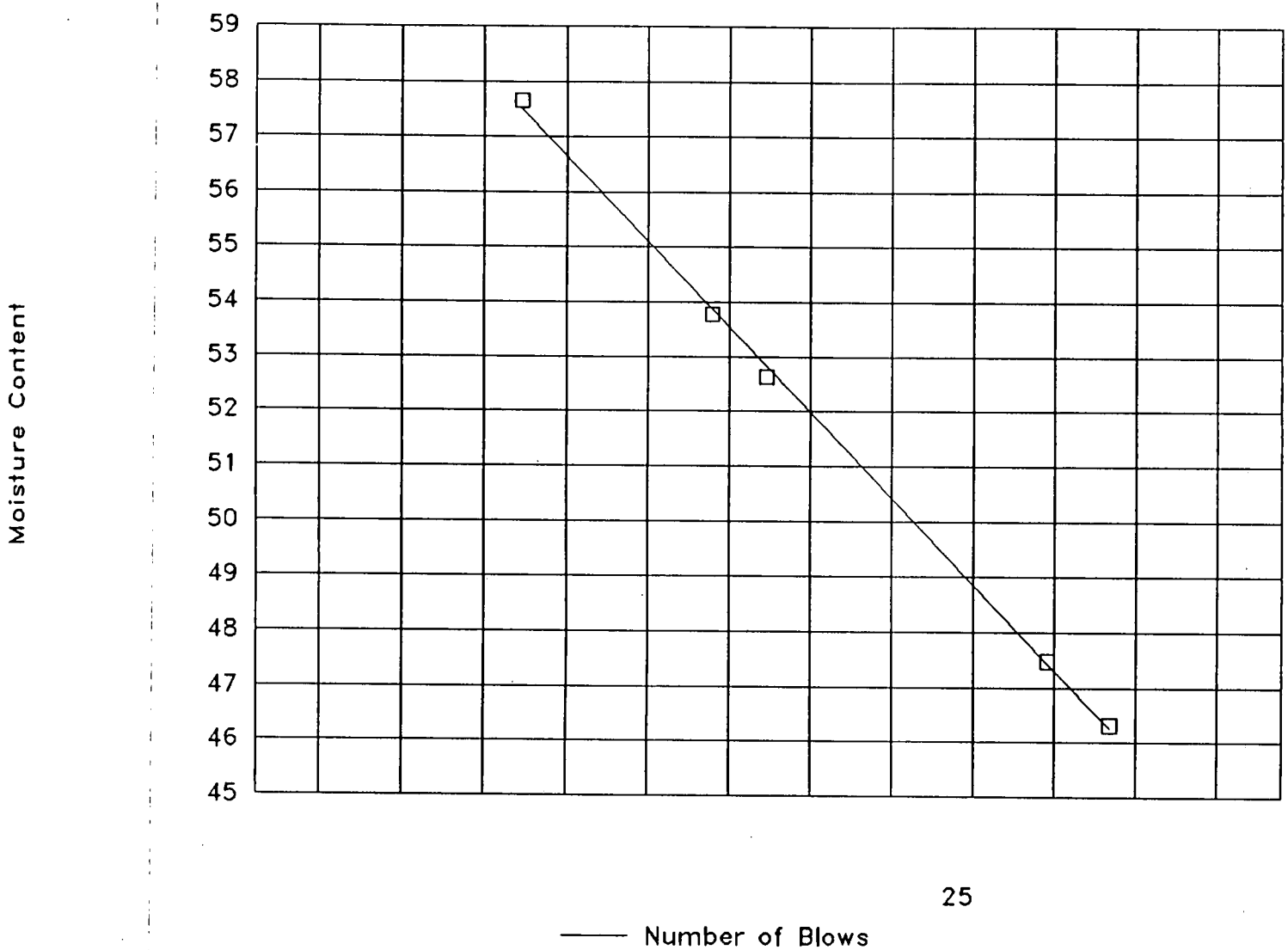
	1	2	3	4	5
Dish	2002	4105	B25	2039	B33
Number of Blows	37	31	14	12	7
Wt Dish & Wet Soil	17.54	16.82	20.42	17.90	20.70
Wt Dish & Dry Soil	12.32	11.74	13.74	12.01	13.51
Wt of Moisture	5.22	5.08	6.68	5.89	7.19
Wt of Dish	1.05	1.04	1.05	1.06	1.04
Wt of Dry Soil	11.27	10.70	12.69	10.95	12.47
Moisture Content	46.32	47.48	52.64	53.79	57.66
Calculated Moisture cont	46.248	47.444	52.820	53.863	57.508

Liquid Limit	48.9
Plastic Limit	18.6
Plasticity Index	30.3
Atterberg Classification	CL

Data entry by: NAA Date: 5-23-95
Checked by: DSL Date: 5-26-95
FileName: B:SAG0608 ADVANCED TERRA TESTING, INC.

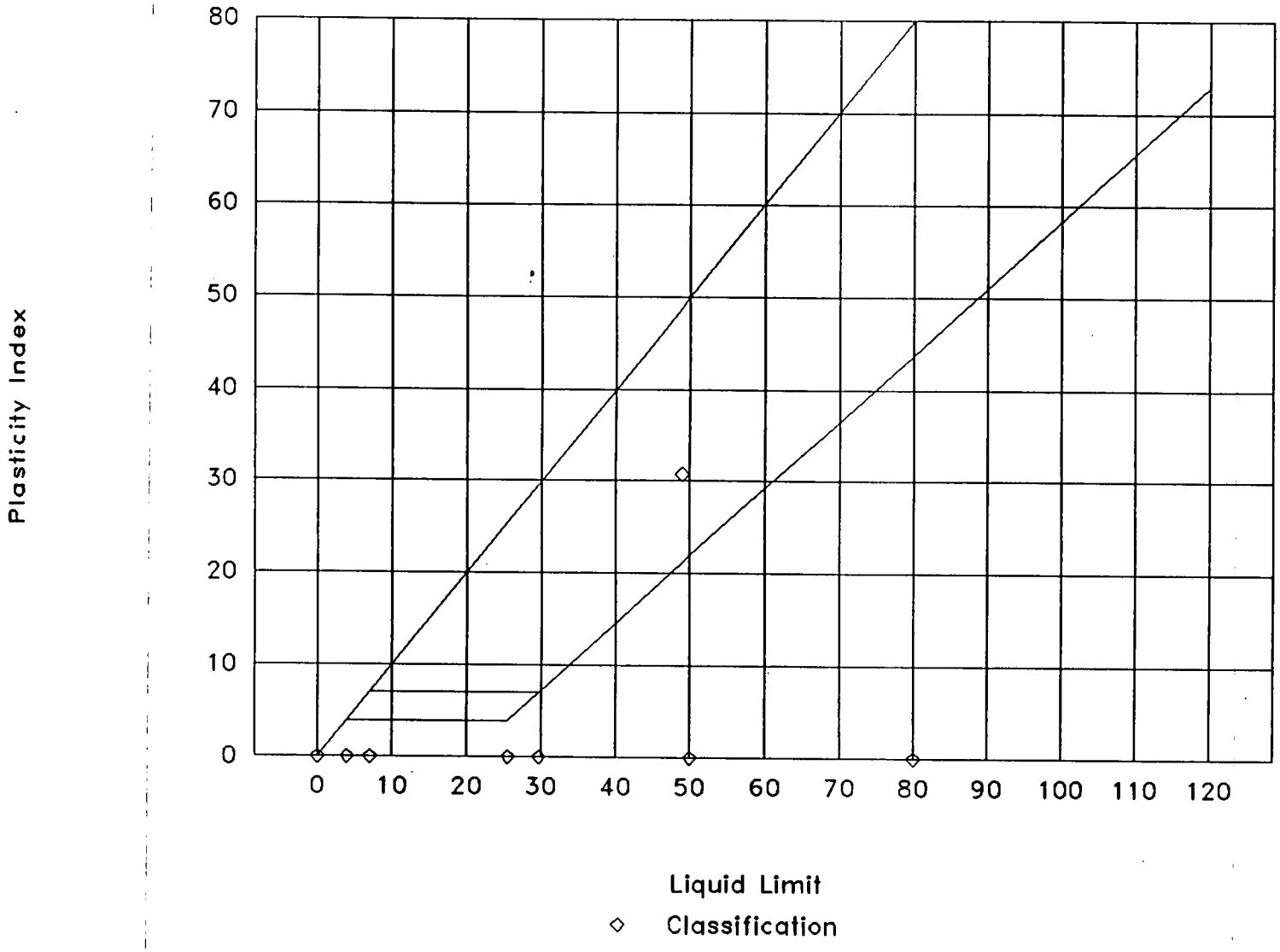
Atterberg Limits, Flow Curve

G2-SB-1, 1.5-5.0', 404608



PLASTICITY CHART

G2-SB-1, 1.5-5.0', 404608



ATTERBERG LIMITS TEST
ASTM D 4318

CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13I
BORING NO.	G2-SB-2	SAMPLED	4-24-95 JC, BN
DEPTH	1.5-5.0'	TEST STARTED	5-23-95 WEB
SAMPLE NO.	404603	TEST FINISHED	5-24-95 WEB
SOIL DESCR.	Fernald		
TEST TYPE	ATTERBERG		

Plastic Limit
Determination

	1	2	3
Dish	24	15G	2030
Wt Dish & Wet Soil	5.50	8.16	6.64
Wt Dish & Dry Soil	4.86	7.04	5.75
Wt of Moisture	0.64	1.12	0.89
Wt of Dish	1.04	1.05	1.06
Wt of Dry Soil	3.82	5.99	4.69
Moisture Content	16.75	18.70	18.98

Liquid Limit Device Number 0258
Determination

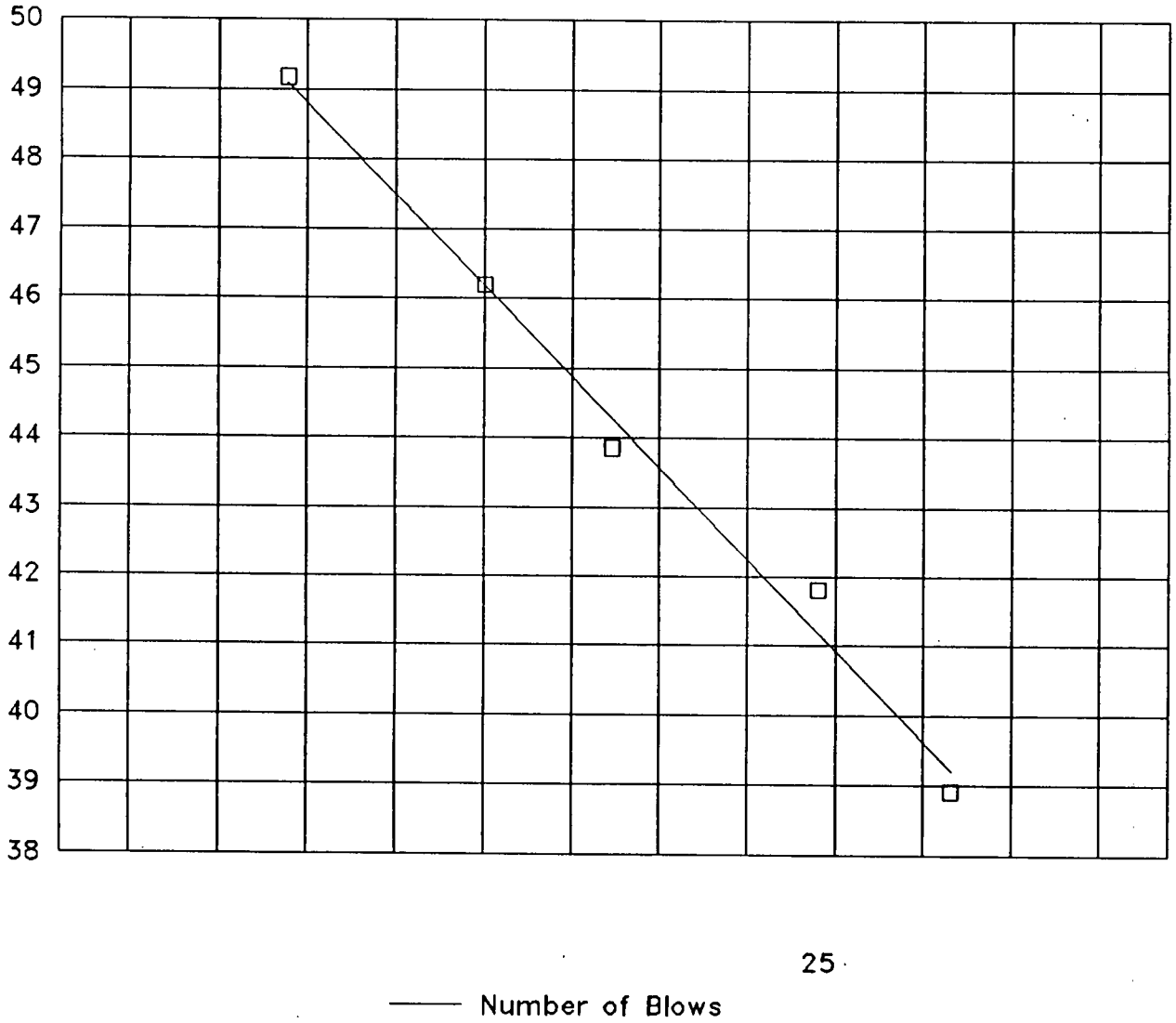
	1	2	3	4	5
Dish	B70	2037	B72	2071	2055
Number of Blows	34	24	14	10	6
Wt Dish & Wet Soil	20.61	22.69	18.36	21.18	23.55
Wt Dish & Dry Soil	15.13	16.31	13.08	14.82	16.13
Wt of Moisture	5.48	6.38	5.28	6.36	7.42
Wt of Dish	1.05	1.05	1.04	1.05	1.04
Wt of Dry Soil	14.08	15.26	12.04	13.77	15.09
Moisture Content	38.92	41.81	43.85	46.19	49.17
Calculated Moisture cont	39.212	41.195	44.265	46.181	49.089

Liquid Limit	41.0
Plastic Limit	18.1
Plasticity Index	22.8
Atterberg Classification	CL

Data entry by: NAA Date: 5-25-95
Checked by: DSL Date: 5-25-95
FileName: B:SAG0603 ADVANCED TERRA TESTING, INC.

Atterberg Limits, Flow Curve

G2-SB-2, 1.5-5.0', 404603



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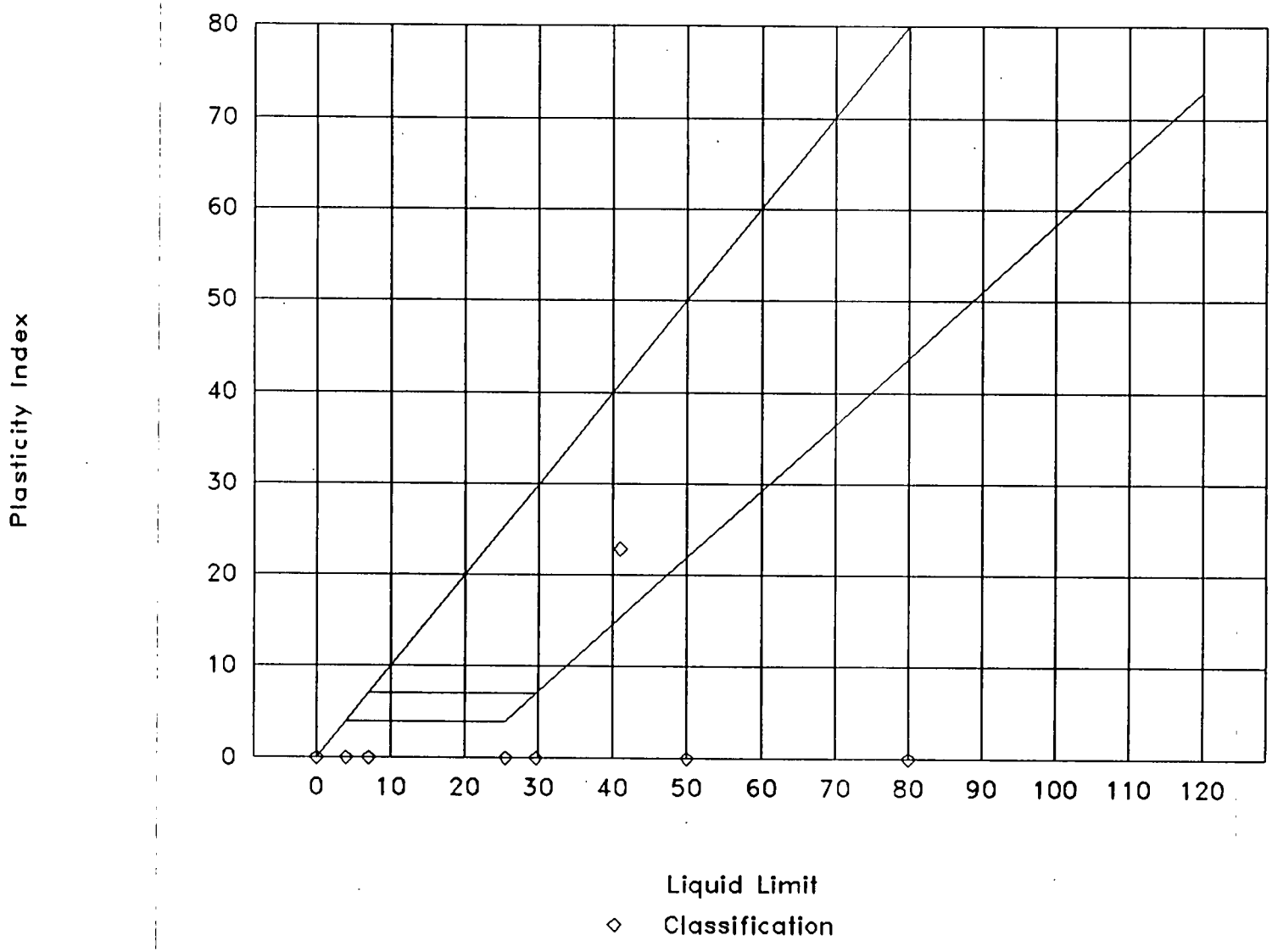
474

PLASTICITY CHART

G2-SB-2, 1.5-5.0', 404603



ATTERBERG LIMITS TEST
ASTM D 4318

CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13I

BORING NO.	G2-SB-3	SAMPLED	4-21-95 JC, BN
DEPTH	1.5-5.0'	TEST STARTED	5-22-95 WEB
SAMPLE NO.	404591	TEST FINISHED	5-22-95 WEB
SOIL DESCR.	Fernald		
TEST TYPE	ATTERBERG		

Plastic Limit
Determination

	1	2	3
Dish	B9	B35	B27
Wt Dish & Wet Soil	7.52	8.14	8.78
Wt Dish & Dry Soil	6.54	7.08	7.63
Wt of Moisture	0.98	1.06	1.15
Wt of Dish	1.03	1.04	1.04
Wt of Dry Soil	5.51	6.04	6.59
Moisture Content	17.79	17.55	17.45

Liquid Limit Device Number 0255
Determination

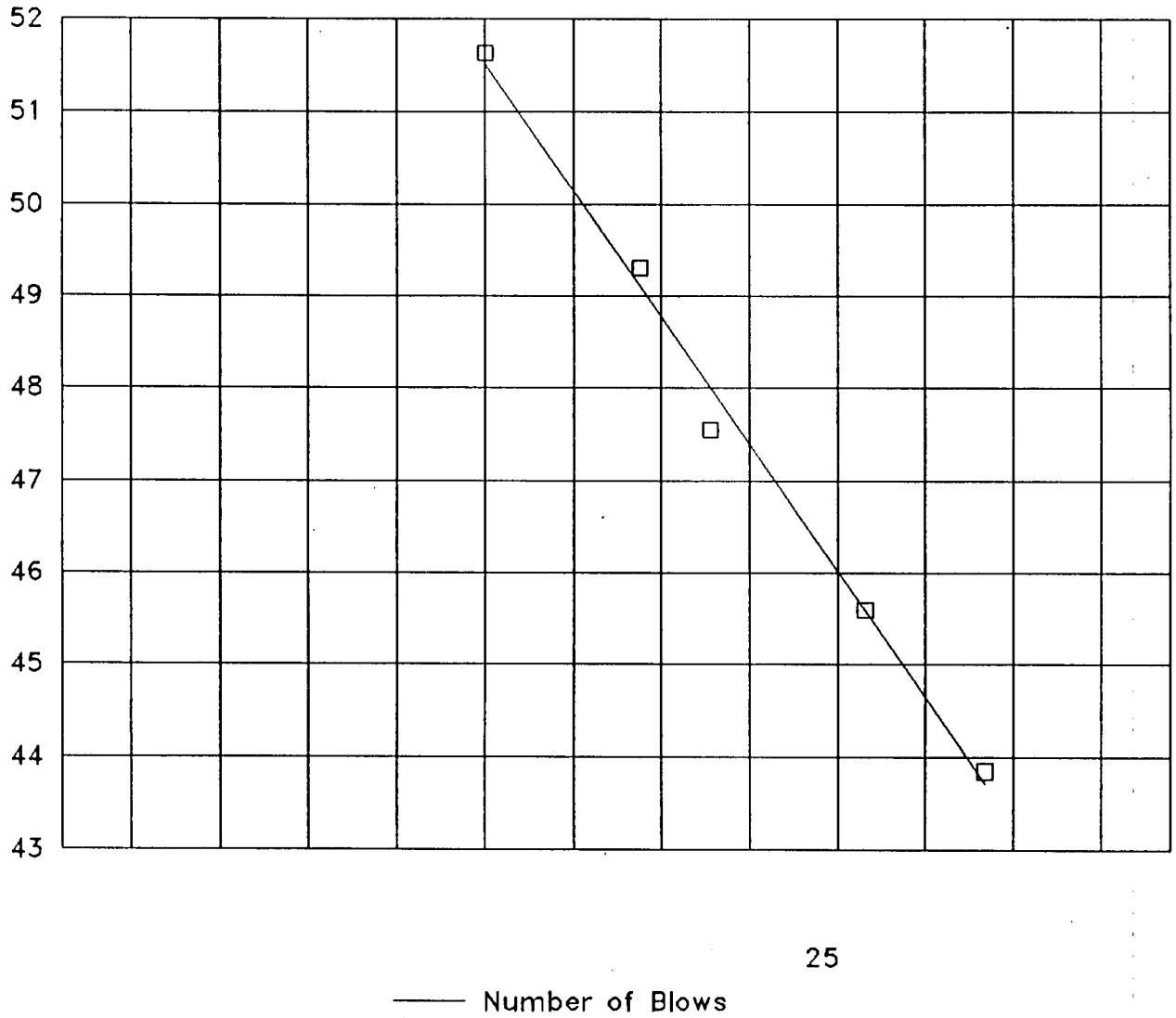
	1	2	3	4	5
Dish	20CB	2007	B52	2032	B61
Number of Blows	37	27	18	15	10
Wt Dish & Wet Soil	15.76	16.60	17.31	19.19	16.85
Wt Dish & Dry Soil	11.27	11.73	12.07	13.20	11.47
Wt of Moisture	4.49	4.87	5.24	5.99	5.38
Wt of Dish	1.03	1.05	1.05	1.05	1.05
Wt of Dry Soil	10.24	10.68	11.02	12.15	10.42
Moisture Content	43.85	45.60	47.55	49.30	51.63
Calculated Moisture cont	43.710	45.590	48.011	49.099	51.519

Liquid Limit	46.0
Plastic Limit	17.6
Plasticity Index	28.5
Atterberg Classification	CL

Data entry by: NAA Date: 5-23-95
Checked by: DSR Date: 5-26-95
FileName: B:SAG0591 ADVANCED TERRA TESTING, INC.

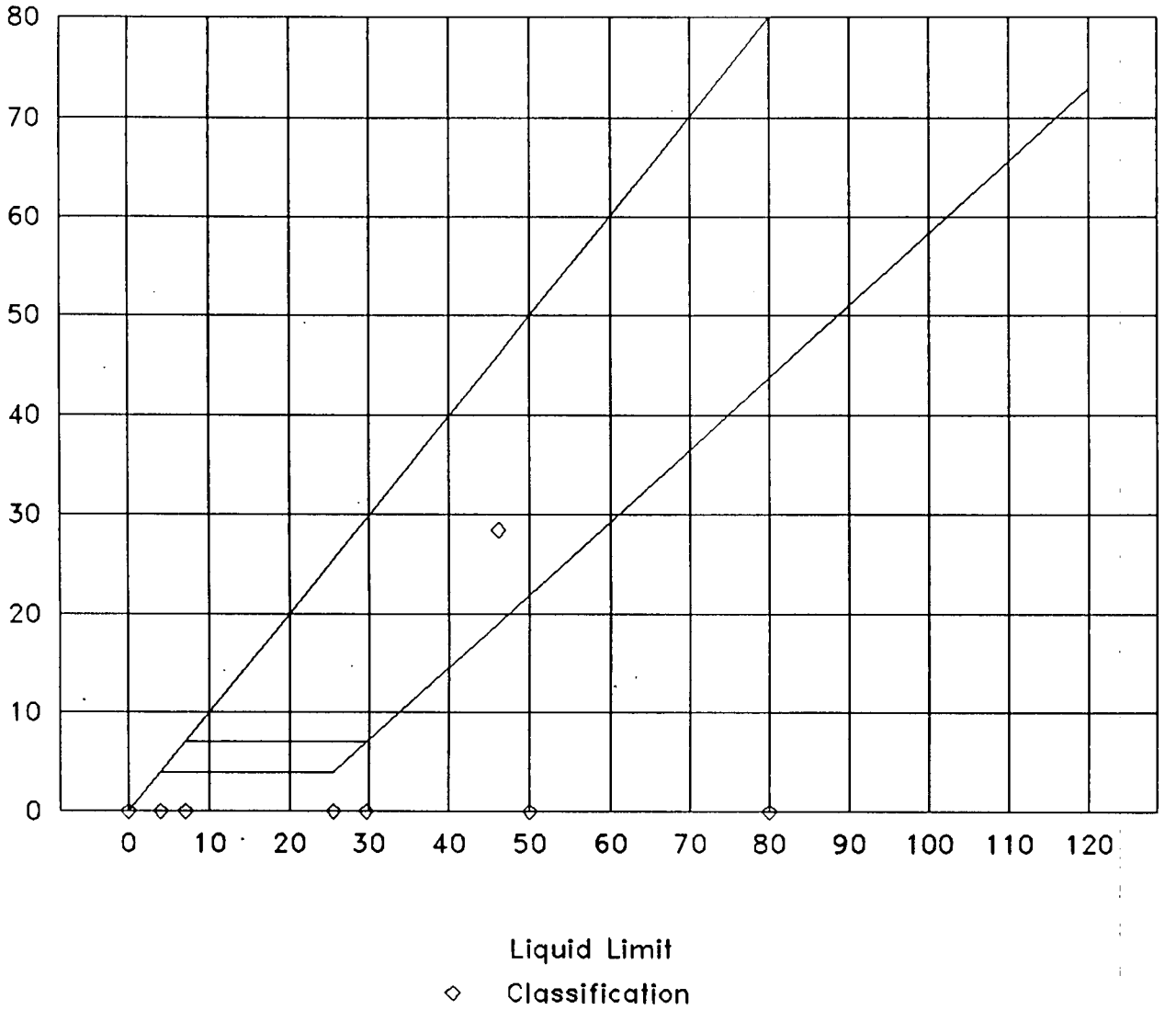
Atterberg Limits, Flow Curve

G2-SB-3, 1.5-5.0', 404591



PLASTICITY CHART

G2-SB-3, 1.5-5.0', 404591



ATTERBERG LIMITS TEST
ASTM D 4318

CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13I
BORING NO.	G2-SB-4	SAMPLED	4-25-95 JC, BN
DEPTH	1.5-5.0'	TEST STARTED	5-22-95 WEB
SAMPLE NO.	404615	TEST FINISHED	5-22-95 WEB
SOIL DESCR.	Fernald		
TEST TYPE	ATTERBERG		

Plastic Limit Determination

	1	2	3
Dish	2034	58C	0C
Wt Dish & Wet Soil	7.21	4.83	5.48
Wt Dish & Dry Soil	6.25	4.27	4.82
Wt of Moisture	0.96	0.56	0.66
Wt of Dish	1.04	1.06	1.05
Wt of Dry Soil	5.21	3.21	3.77
Moisture Content	18.43	17.45	17.51

Liquid Limit Determination — Device Number 0255

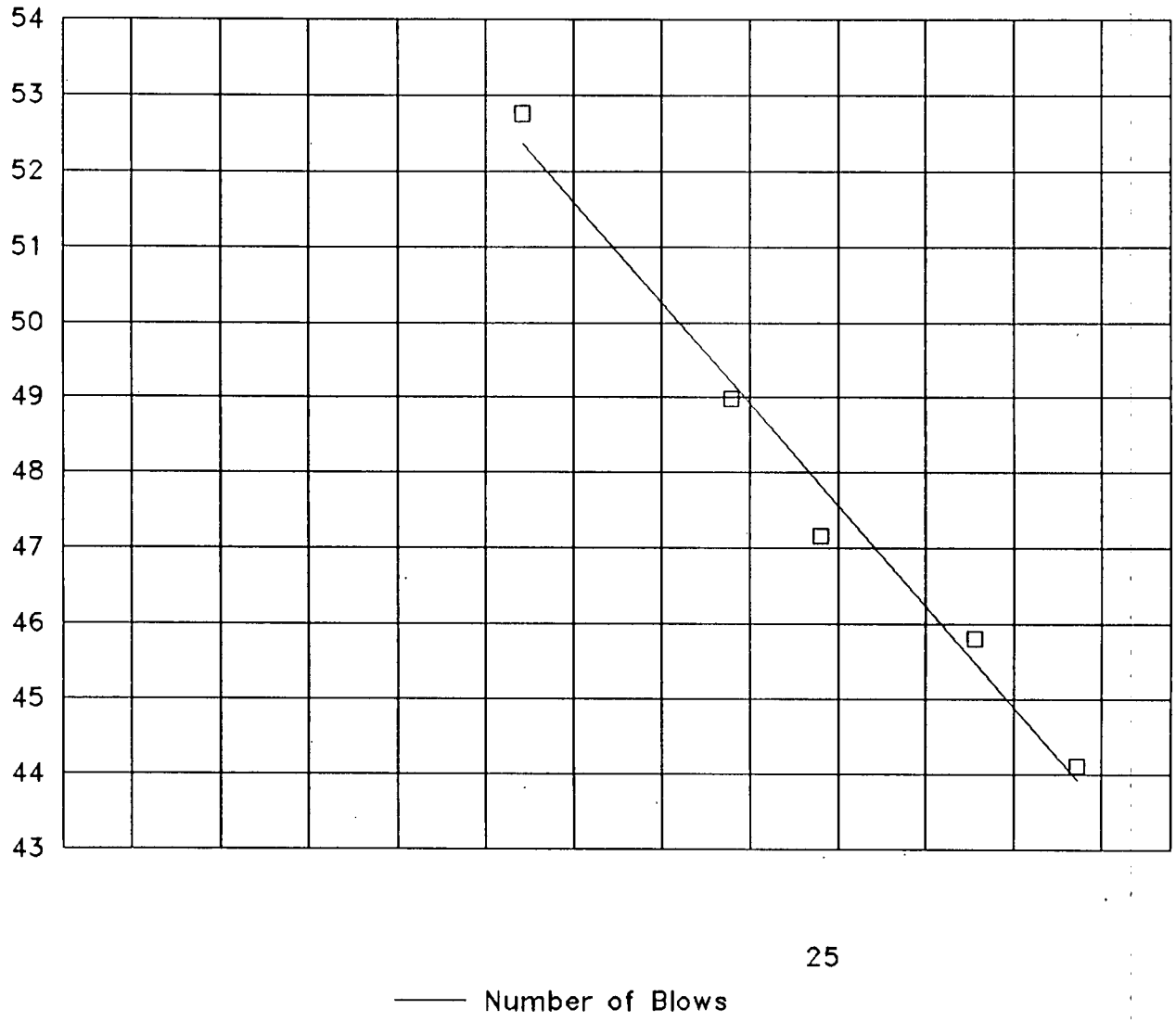
	1	2	3	4	5
Dish	2001	2003	2021	B18	27C
Number of Blows	47	36	24	19	11
Wt Dish & Wet Soil	21.76	20.65	20.99	21.51	24.30
Wt Dish & Dry Soil	15.42	14.49	14.60	14.78	16.27
Wt of Moisture	6.34	6.16	6.39	6.73	8.03
Wt of Dish	1.05	1.04	1.05	1.04	1.05
Wt of Dry Soil	14.37	13.45	13.55	13.74	15.22
Moisture Content	44.12	45.80	47.16	48.98	52.76
Calculated Moisture cont	43.933	45.482	47.838	49.195	52.370

Liquid Limit	47.6
Plastic Limit	17.8
Plasticity Index	29.8
Atterberg Classification	CL

Data entry by: NAA Date: 5-23-95
Checked by: [illegible] Date: 5-26-95
FileName: B:SAG0615 ADVANCED TERRA TESTING, INC.

Atterberg Limits, Flow Curve

G2-SB-4, 1.5-5.0', 404615



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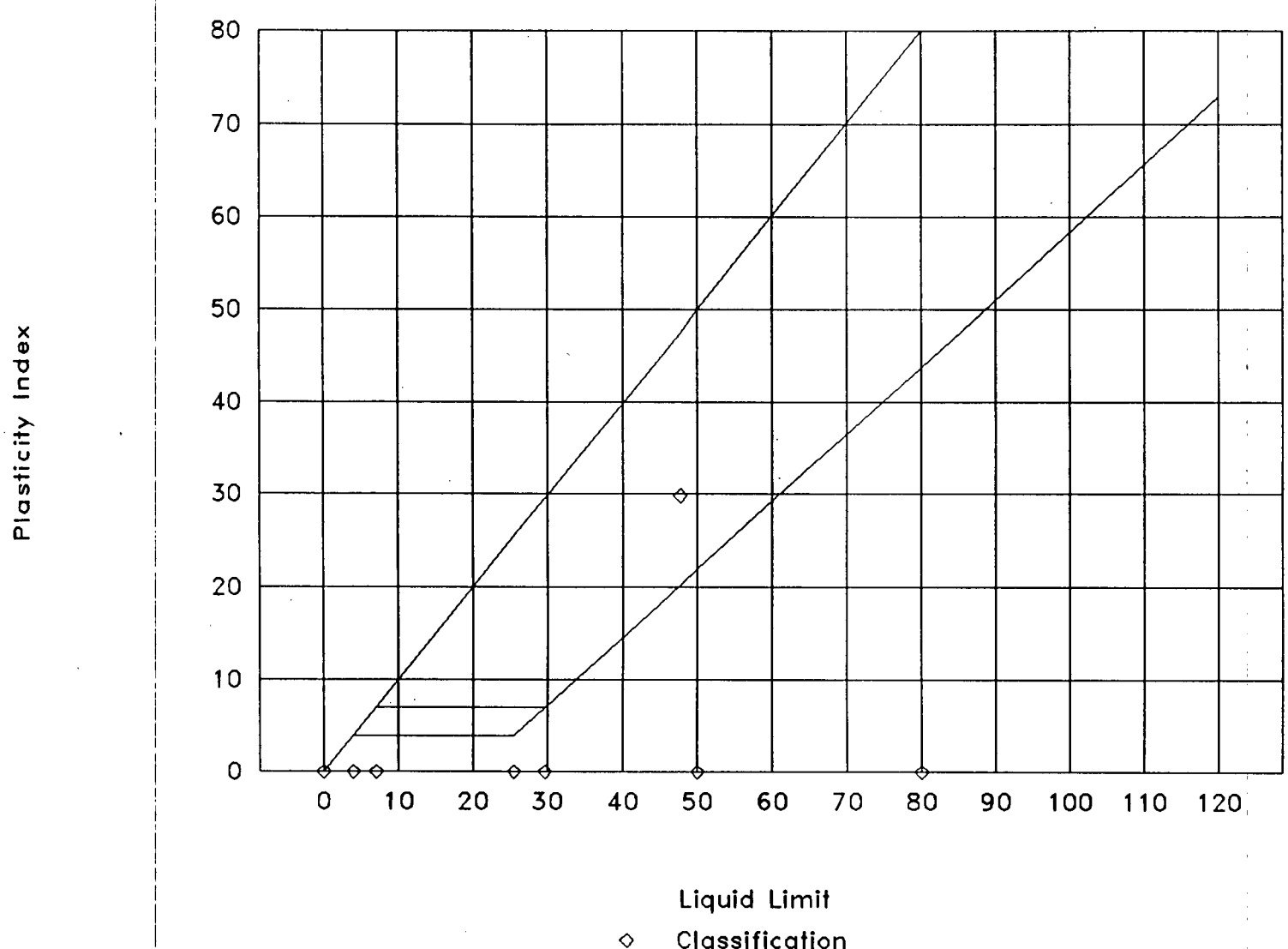
474

PLASTICITY CHART

G2-SB-4, 1.5-5.0', 404615



ATTERBERG LIMITS TEST
ASTM D 4318

CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13I
BORING NO.	G2-SB-5	SAMPLED	4-26-95 JC, BN
DEPTH	1.5-5.0'	TEST STARTED	5-22-95 WEB
SAMPLE NO.	404627	TEST FINISHED	5-22-95 WEB
SOIL DESCR.	Fernald		
TEST TYPE	ATTERBERG		

Plastic Limit
Determination

	1	2	3
Dish	4104	B38.	2008
Wt Dish & Wet Soil	8.79	7.78	8.01
Wt Dish & Dry Soil	7.54	6.74	6.91
Wt of Moisture	1.25	1.04	1.10
Wt of Dish	1.04	1.04	1.05
Wt of Dry Soil	6.50	5.70	5.86
Moisture Content	19.23	18.25	18.77

Liquid Limit Device Number 0258
Determination

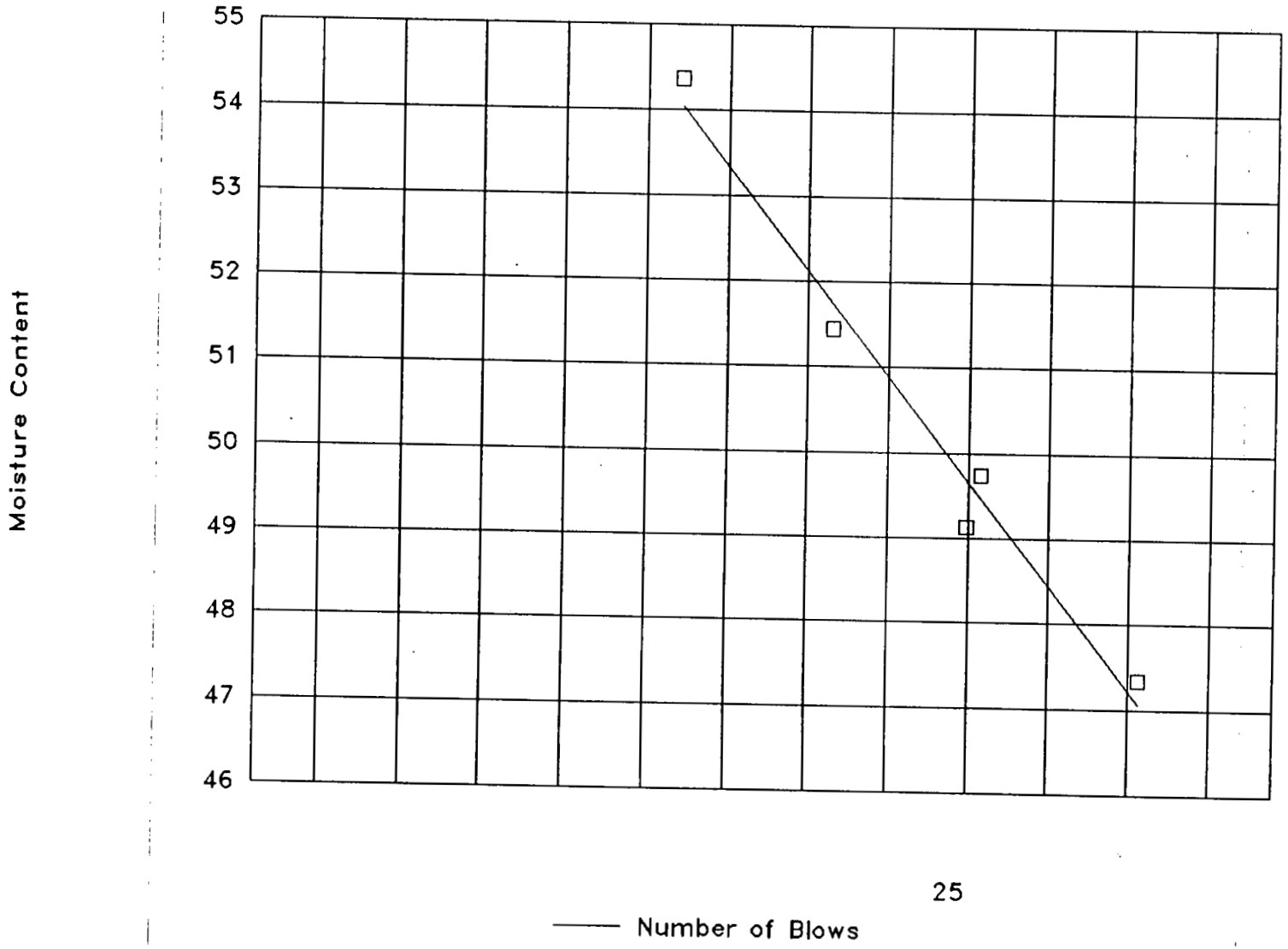
	1	2	3	4	5
Dish	B50	2D18	B3	B13	B39
Number of Blows	41	25	26	17	11
Wt Dish & Wet Soil	17.38	21.51	17.97	17.90	22.08
Wt Dish & Dry Soil	12.13	14.77	12.35	12.18	14.67
Wt of Moisture	5.25	6.74	5.62	5.72	7.41
Wt of Dish	1.04	1.05	1.05	1.06	1.04
Wt of Dry Soil	11.09	13.72	11.30	11.12	13.63
Moisture Content	47.34	49.13	49.73	51.44	54.37
Calculated Moisture cont	47.060	49.686	49.478	51.734	54.046

Liquid Limit	49.7
Plastic Limit	18.7
Plasticity Index	30.9
Atterberg Classification	CL

Data entry by: NAA Date: 5-23-95
Checked by: [signature] Date: 5-26-95
FileName: B:SAG0627 ADVANCED TERRA TESTING, INC.

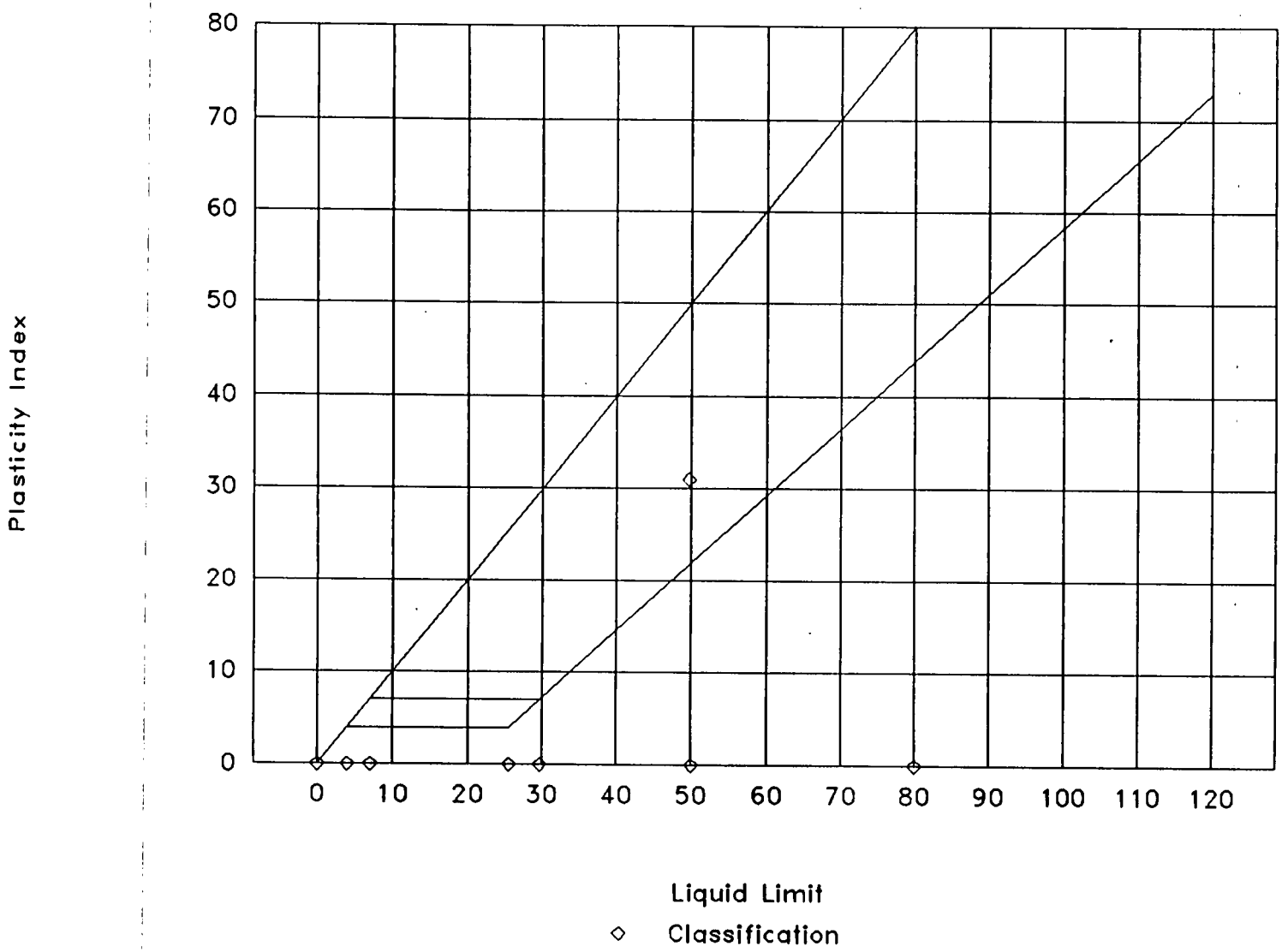
Atterberg Limits, Flow Curve

G2-SB-5, 1.5-5.0', 404627



PLASTICITY CHART

G2-SB-5, 1.5-5.0', 404627



ATTERBERG LIMITS TEST
ASTM D 4318

CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13I
BORING NO.	G2-SB-6	SAMPLED	4-21-95 JC, BN
DEPTH	1.5-5.0'	TEST STARTED	5-22-95 WEB
SAMPLE NO.	404595	TEST FINISHED	5-22-95 WEB
SOIL DESCR.	Fernald		
TEST TYPE	ATTERBERG		

Plastic Limit
Determination

	1	2	3
Dish	2014	B73	B63
Wt Dish & Wet Soil	9.67	8.52	10.73
Wt Dish & Dry Soil	8.27	7.28	9.15
Wt of Moisture	1.40	1.24	1.58
Wt of Dish	1.07	1.04	1.04
Wt of Dry Soil	7.20	6.24	8.11
Moisture Content	19.44	19.87	19.48

Liquid Limit Device Number 0258
Determination

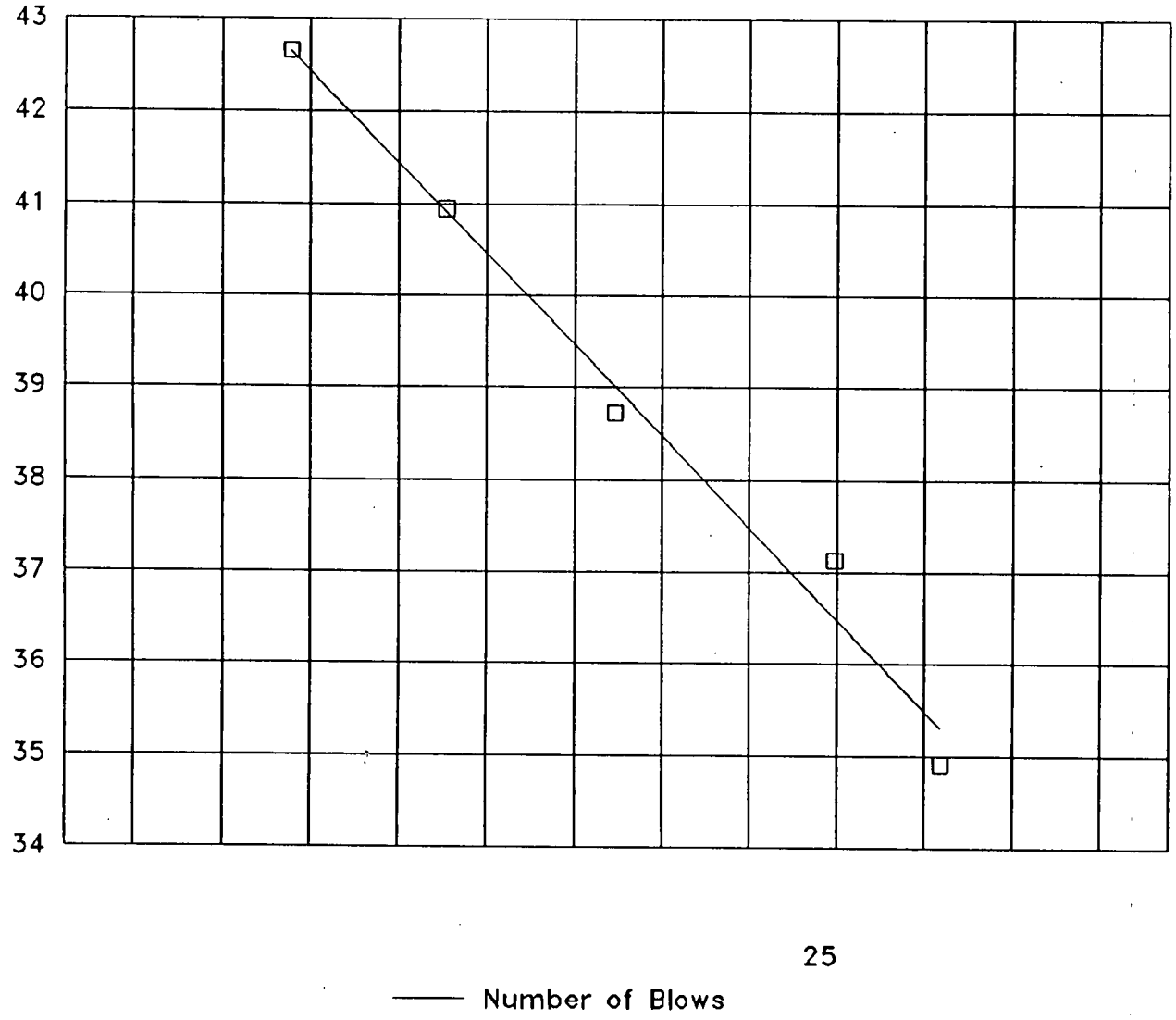
	1	2	3	4	5
Dish	2038	2054	2062	B67	B28
Number of Blows	33	25	14	9	6
Wt Dish & Wet Soil	15.34	16.33	19.06	18.00	18.54
Wt Dish & Dry Soil	11.64	12.19	14.03	13.07	13.31
Wt of Moisture	3.70	4.14	5.03	4.93	5.23
Wt of Dish	1.04	1.04	1.04	1.03	1.05
Wt of Dry Soil	10.60	11.15	12.99	12.04	12.26
Moisture Content	34.91	37.13	38.72	40.95	42.66
Calculated Moisture cont	35.304	36.501	39.000	40.905	42.653

Liquid Limit 36.5
Plastic Limit 19.6
Plasticity Index 16.9
Atterberg Classification CL

Data entry by: NAA Date: 5-23-95
Checked by: DSR Date: 5-26-95
FileName: B:SAG0595 ADVANCED TERRA TESTING, INC.

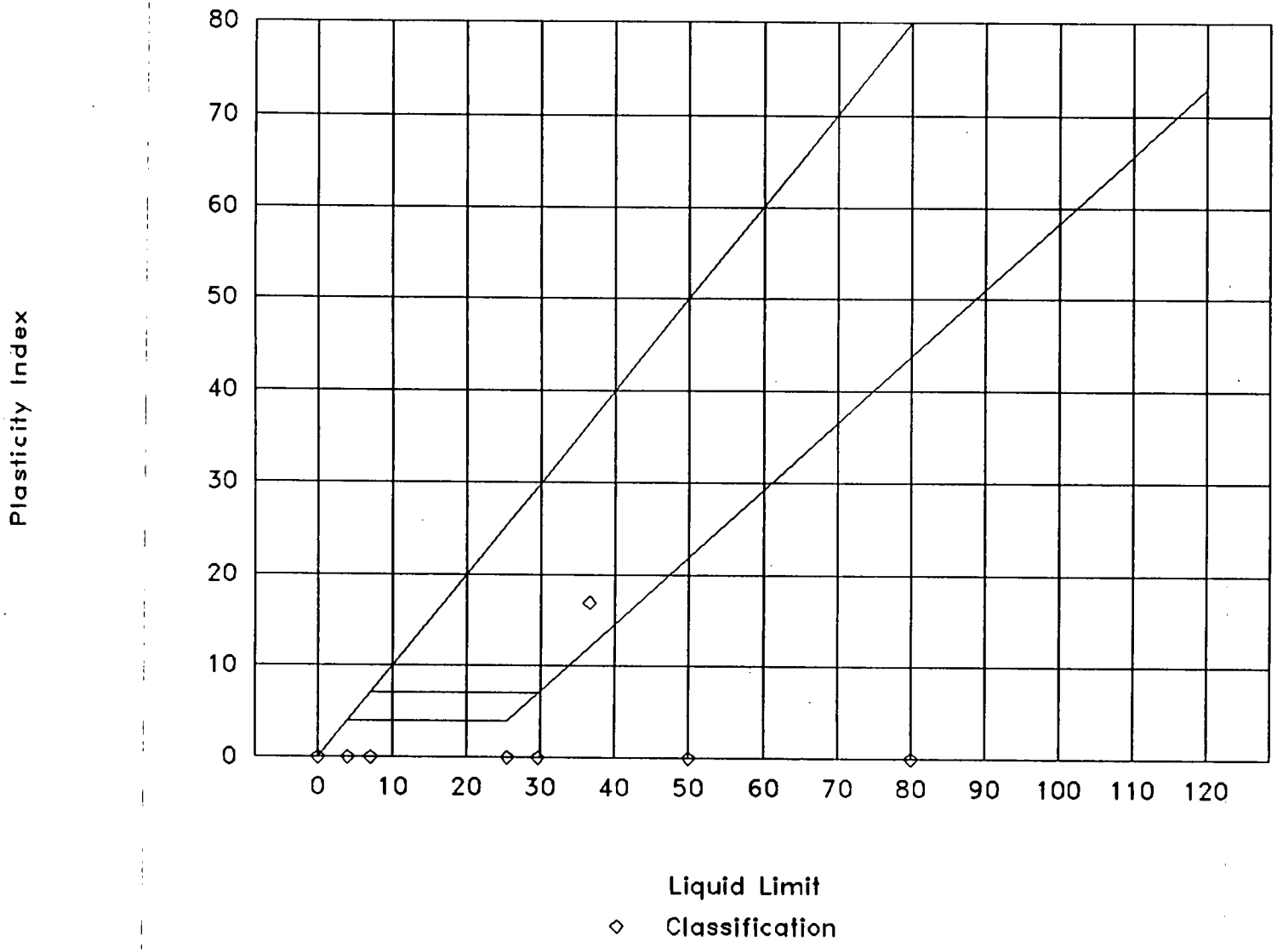
Atterberg Limits, Flow Curve

G2-SB-6, 1.5-5.0', 404595



PLASTICITY CHART

G2-SB-6, 1.5-5.0', 404595



ATTERBERG LIMITS TEST
ASTM D 4318

CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13I
BORING NO.	G2-SB-7	SAMPLED	4-26-95 JC, BN
DEPTH	1.5-5.0'	TEST STARTED	6-5-95 RW
SAMPLE NO.	404632	TEST FINISHED	6-6-95 RW
SOIL DESCR.	Fernald		
TEST TYPE	ATTERBERG		

Plastic Limit
Determination

	1	2	3
Dish	4106	2031	66C
Wt Dish & Wet Soil	12.22	9.33	8.24
Wt Dish & Dry Soil	10.53	8.09	7.17
Wt of Moisture	1.69	1.24	1.07
Wt of Dish	1.05	1.05	1.04
Wt of Dry Soil	9.48	7.04	6.13
Moisture Content	17.83	17.61	17.46

Liquid Limit Device Number 0255
Determination

	1	2	3	4	5
Dish	31C	4109	11C	4111	2070
Number of Blows	35	28	19	16	11
Wt Dish & Wet Soil	17.99	16.39	17.01	14.54	17.33
Wt Dish & Dry Soil	12.90	11.68	11.93	10.14	11.87
Wt of Moisture	5.09	4.71	5.08	4.40	5.46
Wt of Dish	1.05	1.04	1.04	1.04	1.04
Wt of Dry Soil	11.85	10.64	10.89	9.10	10.83
Moisture Content	42.95	44.27	46.65	48.35	50.42
Calculated Moisture cont	42.878	44.346	46.896	48.026	50.490

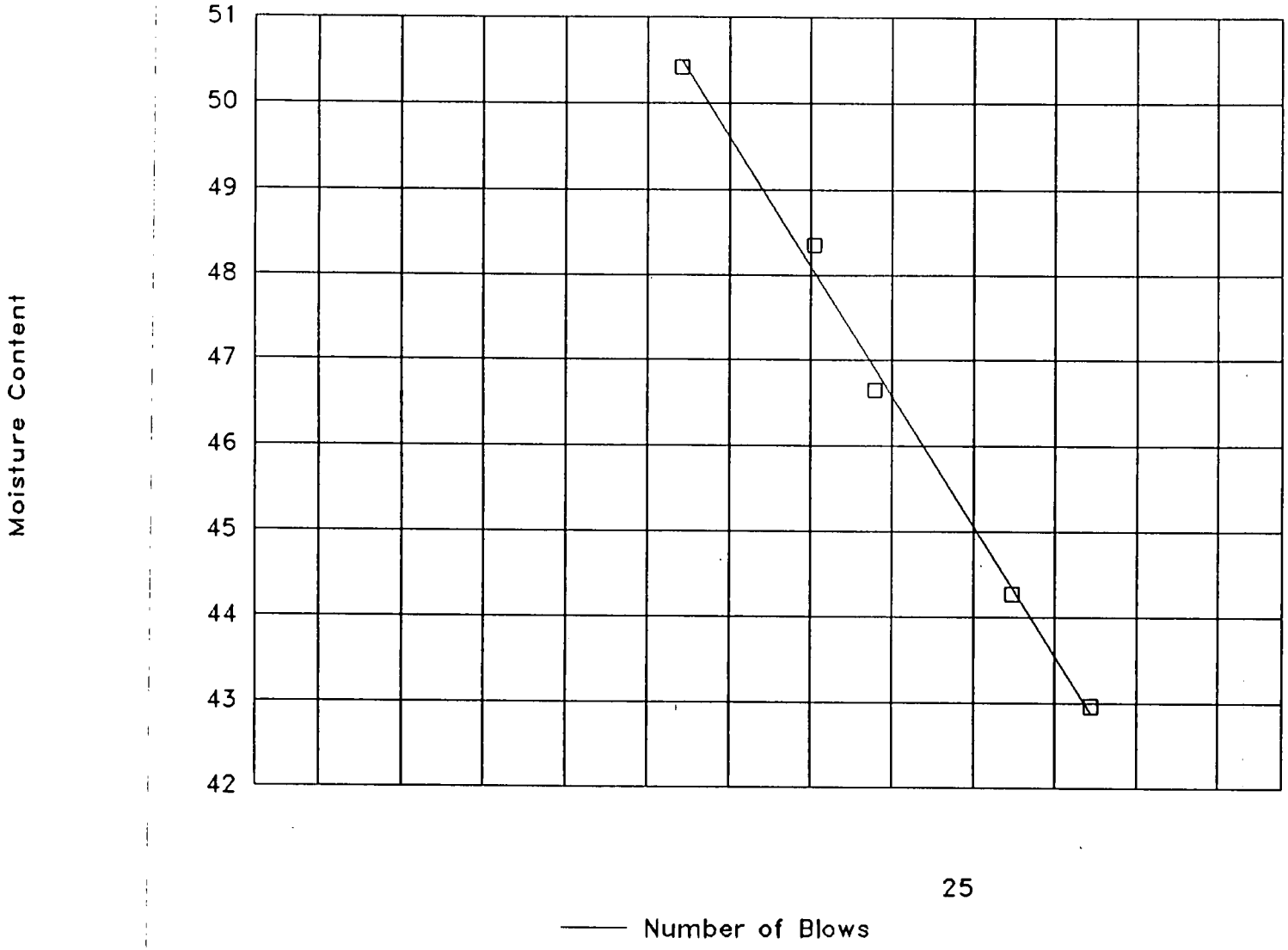
Liquid Limit	45.1
Plastic Limit	17.6
Plasticity Index	27.5

Atterberg Classification CL

Data entry by: NAA Date: 6-6-95
Checked by: BSR Date: 6-7-95
FileName: SAG0632 ADVANCED TERRA TESTING, INC.

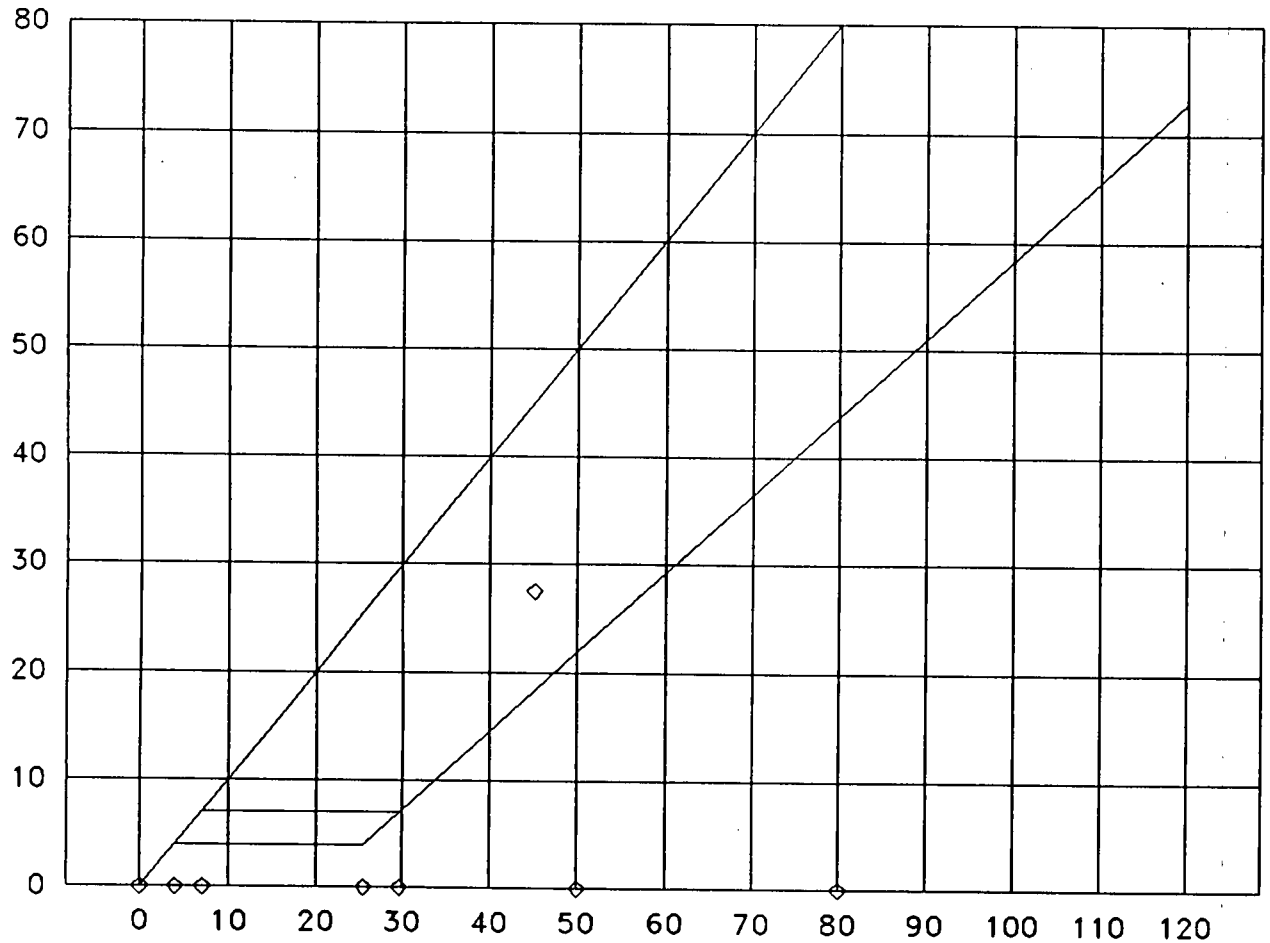
Atterberg Limits, Flow Curve

G2-SB-7, 1.5-5.0', 404632



PLASTICITY CHART

G2-SB-7, 1.5-5.0', 404632



Liquid Limit

◇ Classification

ATTERBERG LIMITS TEST
ASTM D 4318

CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13I

BORING NO.	G2-SB-8	SAMPLED	4-25-95 JC, BN
DEPTH	1.5-5.0'	TEST STARTED	5-23-95 WEB
SAMPLE NO.	404621	TEST FINISHED	5-24-95 WEB
SOIL DESCR.	Fernald		
TEST TYPE	ATTERBERG		

Plastic Limit
Determination

	1	2	3
Dish	B15	B31	19C
Wt Dish & Wet Soil	7.52	7.31	7.45
Wt Dish & Dry Soil	6.59	6.37	6.52
Wt of Moisture	0.93	0.94	0.93
Wt of Dish	1.05	1.05	1.03
Wt of Dry Soil	5.54	5.32	5.49
Moisture Content	16.79	17.67	16.94

Liquid Limit Device Number 0258
Determination

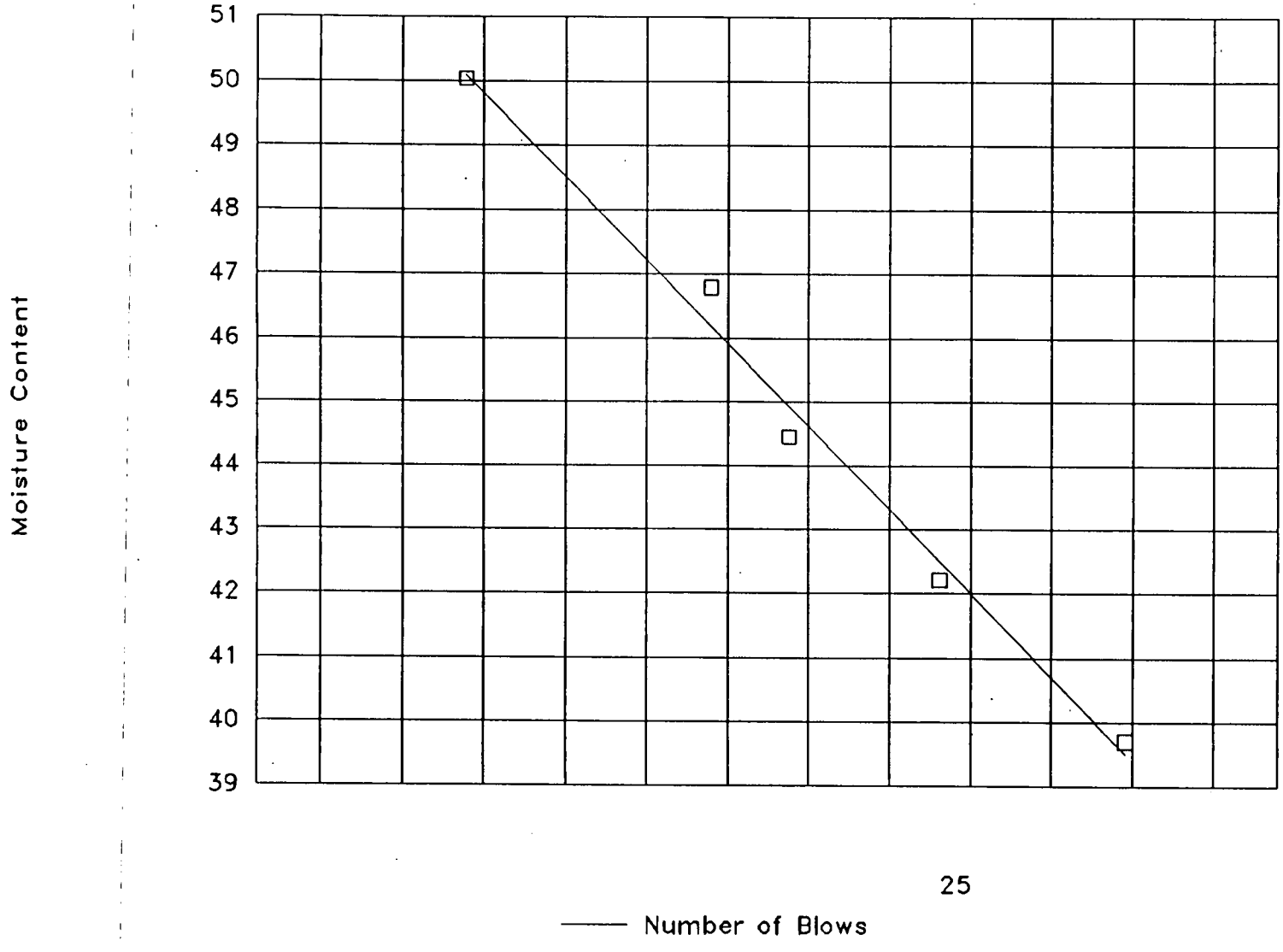
	1	2	3	4	5
Dish	B69	22	16C	26C	2057
Number of Blows	39	23	15	12	6
Wt Dish & Wet Soil	23.79	21.42	22.94	19.57	23.57
Wt Dish & Dry Soil	17.33	15.37	16.21	13.67	16.06
Wt of Moisture	6.46	6.05	6.73	5.90	7.51
Wt of Dish	1.06	1.04	1.07	1.06	1.05
Wt of Dry Soil	16.27	14.33	15.14	12.61	15.01
Moisture Content	39.70	42.22	44.45	46.79	50.03
Calculated Moisture cont	39.506	42.495	44.915	46.179	50.103

Liquid Limit	42.0
Plastic Limit	17.1
Plasticity Index	24.9
Atterberg Classification	CL

Data entry by: NAA Date: 5-25-95
Checked by: BSR Date: 5-25-95
FileName: B:SAG0621 ADVANCED TERRA TESTING, INC.

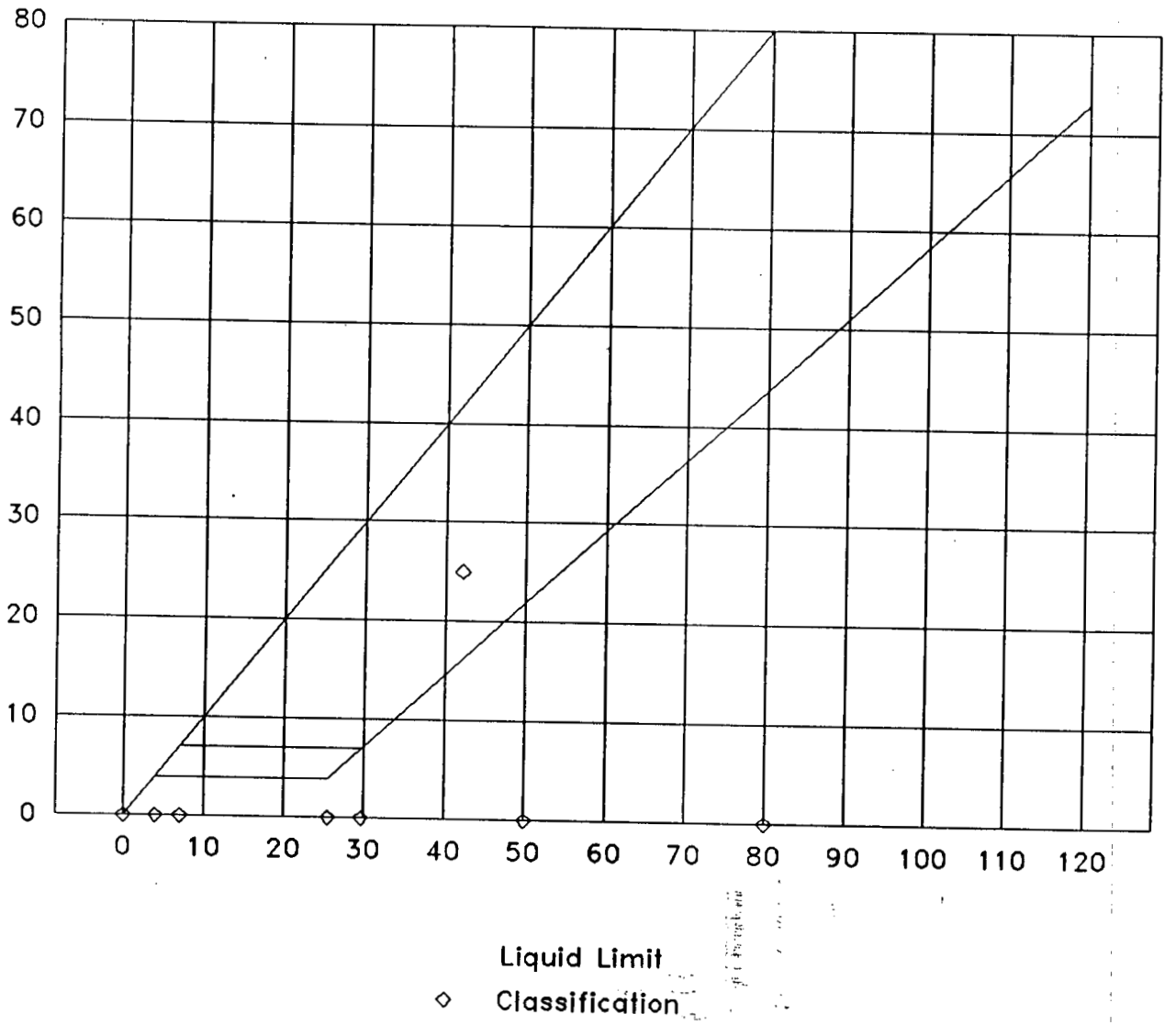
Atterberg Limits, Flow Curve

G2-SB-8, 1.5-5.0', 404621



PLASTICITY CHART

G2-SB-8, 1.5-5.0', 404621



ATTERBERG LIMITS TEST
ASTM D 4318

CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13C
BORING NO.	G2-SB-9	SAMPLED	4-26-95 MM
DEPTH	1.5-5.0'	TEST STARTED	5-19-95 WEB
SAMPLE NO.	404587	TEST FINISHED	5-20-95 WEB
SOIL DESCR.	Fernald		
TEST TYPE	ATTERBERG		

Plastic Limit
Determination

	1	2	3
Dish	2024	2064	B26
Wt Dish & Wet Soil	6.12	5.95	6.40
Wt Dish & Dry Soil	5.29	5.20	5.58
Wt of Moisture	0.83	0.75	0.82
Wt of Dish	1.06	1.04	1.04
Wt of Dry Soil	4.23	4.16	4.54
Moisture Content	19.62	18.03	18.06

Liquid Limit Device Number 0258
Determination

	1	2	3	4	5
Dish	4103	B48	2029	34CX	2012
Number of Blows	49	32	26	18	16
Wt Dish & Wet Soil	20.23	18.11	22.70	19.17	20.42
Wt Dish & Dry Soil	14.33	12.68	15.63	13.06	13.93
Wt of Moisture	5.90	5.43	7.07	6.11	6.49
Wt of Dish	1.04	1.05	1.05	1.03	1.05
Wt of Dry Soil	13.29	11.63	14.58	12.03	12.88
Moisture Content	44.39	46.69	48.49	50.79	50.39

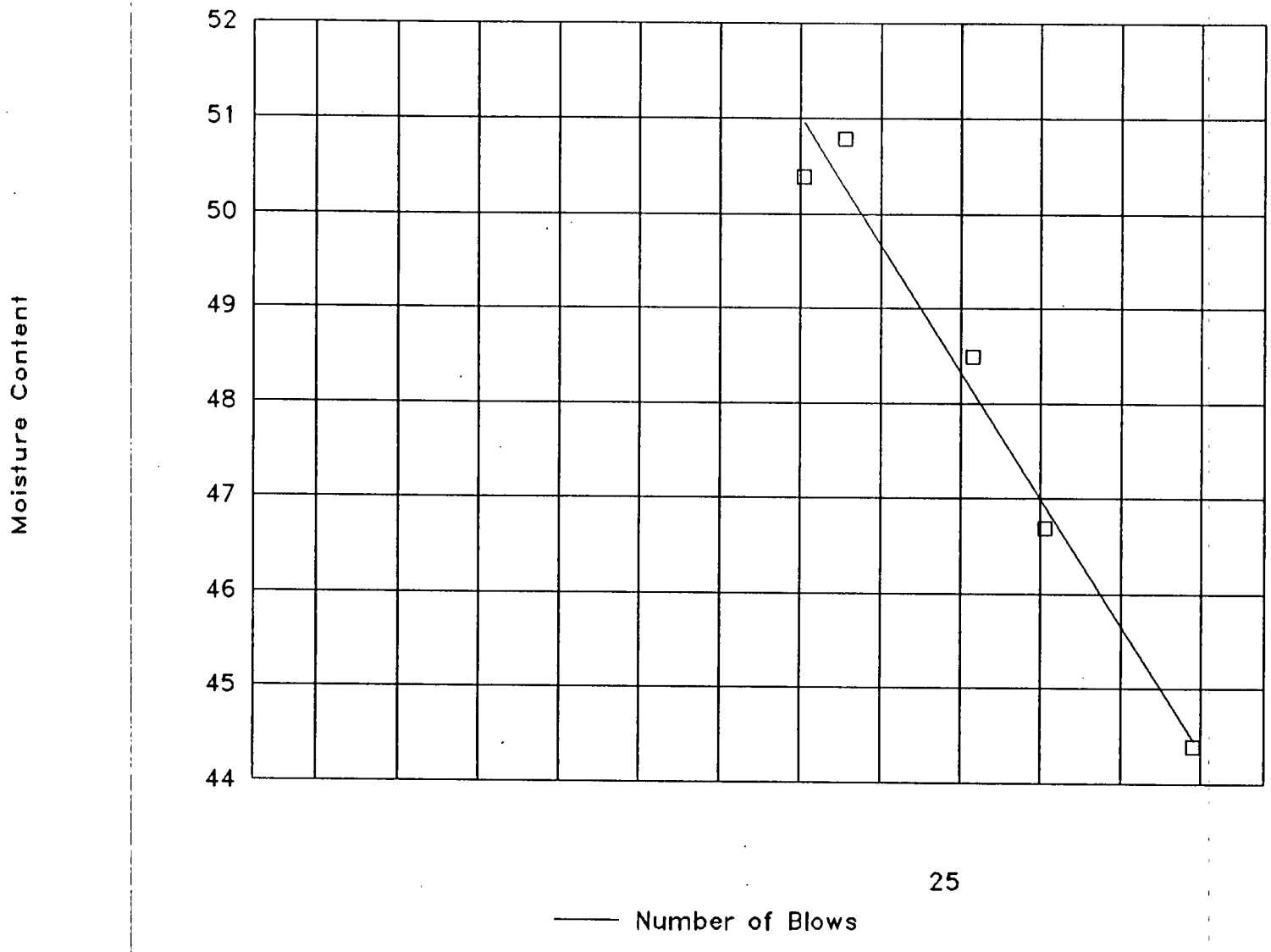
Liquid Limit	48.4
Plastic Limit	18.6
Plasticity Index	29.8

Atterberg Classification CL

Data entry by: RMW Date: 5-22-95
Checked by:_____ Date:_____
FileName: B:SAG0587 ADVANCED TERRA TESTING, INC.

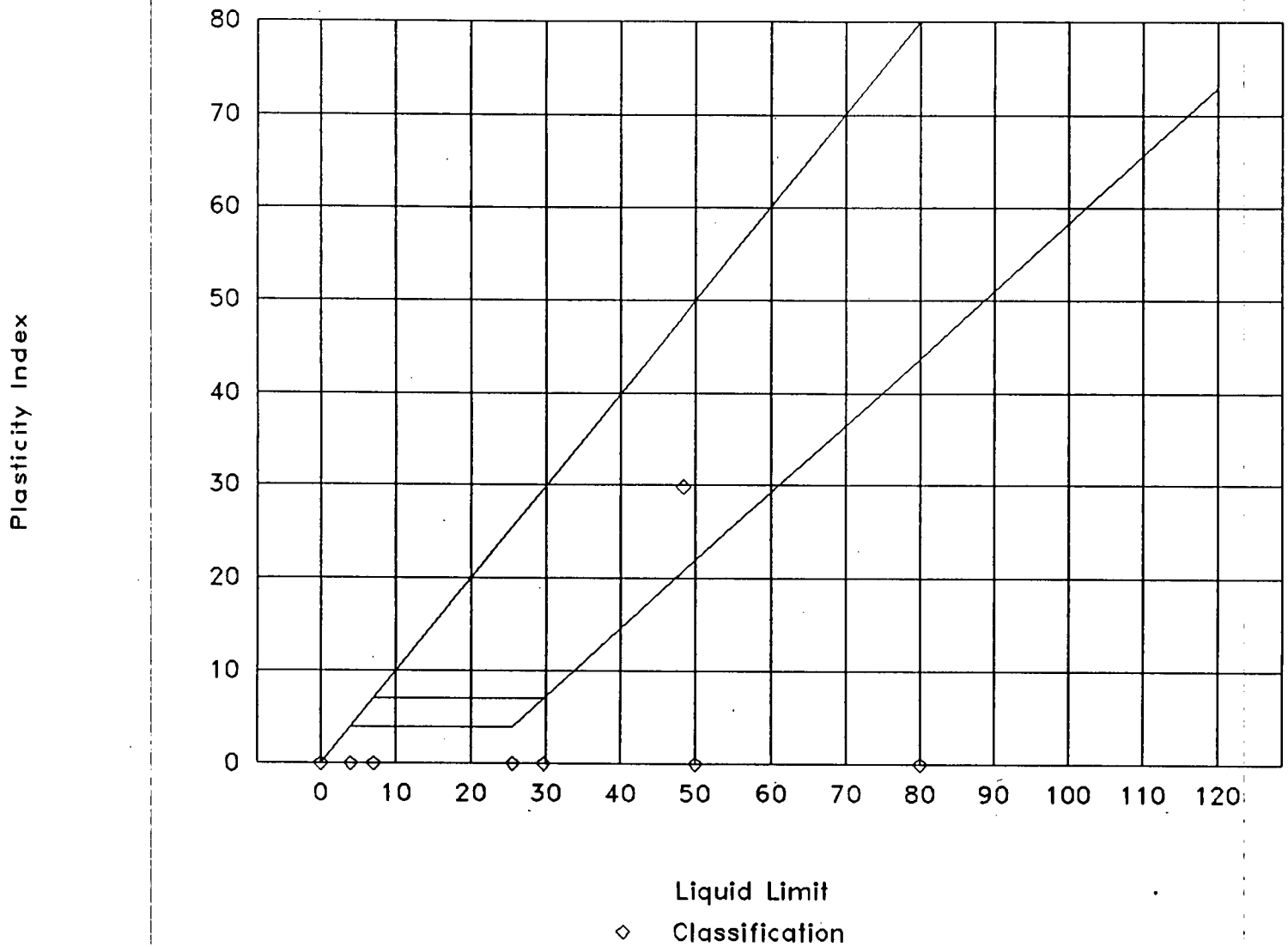
Atterberg Limits, Flow Curve

G2-SB-9, 1.5-5.0', 404587



PLASTICITY CHART

G2-SB-9, 1.5-5.0', 404587



ATTERBERG LIMITS TEST
ASTM D 4318

CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13I

BORING NO.	G2-SB-10	SAMPLED	4-26-95
DEPTH	1.5-5.0'	TEST STARTED	6-6-95 WEB
SAMPLE NO.	404637	TEST FINISHED	6-7-95 WEB
SOIL DESCR.	Fernald		
TEST TYPE	ATTERBERG		

Plastic Limit
Determination

	1	2	3
Dish	2044	4003	2051
Wt Dish & Wet Soil	6.57	10.72	8.50
Wt Dish & Dry Soil	5.77	9.26	7.42
Wt of Moisture	0.80	1.46	1.08
Wt of Dish	1.05	1.06	1.04
Wt of Dry Soil	4.72	8.20	6.38
Moisture Content	16.95	17.80	16.93

Liquid Limit Device Number 0258
Determination

	1	2	3	4	5
Dish	B3	2023	3C	39C	4112
Number of Blows	48	39	22	15	11
Wt Dish & Wet Soil	18.64	18.70	20.72	19.27	21.41
Wt Dish & Dry Soil	13.34	13.28	14.45	13.29	14.50
Wt of Moisture	5.30	5.42	6.27	5.98	6.91
Wt of Dish	1.04	1.06	1.06	1.04	1.04
Wt of Dry Soil	12.30	12.22	13.39	12.25	13.46
Moisture Content	43.09	44.35	46.83	48.82	51.34

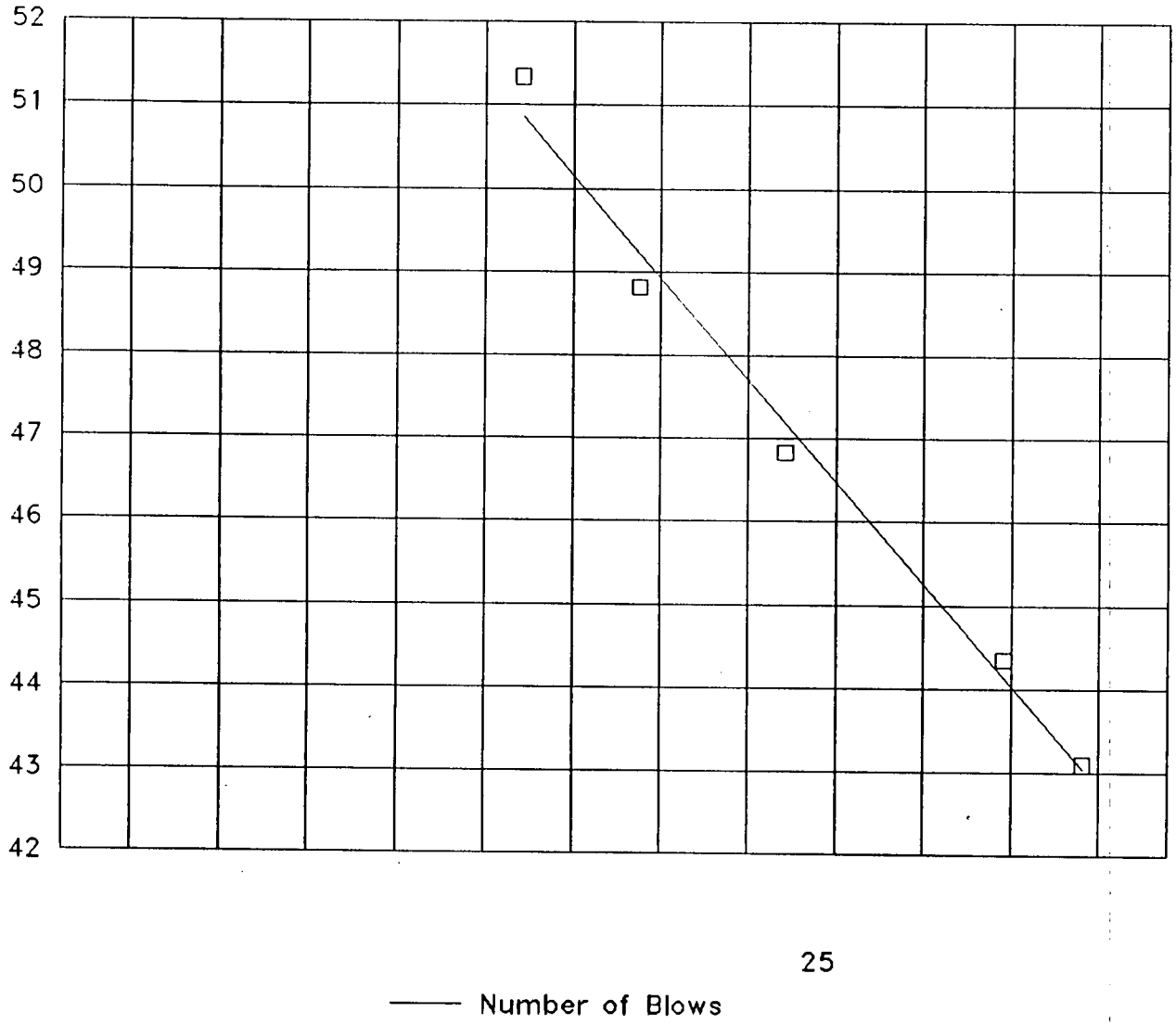
Liquid Limit	46.5
Plastic Limit	17.2
Plasticity Index	29.3

Atterberg Classification CL

Data entry by: NAA Date: 6-7-95
Checked by: DSR Date: 6-9-95
FileName: SAG0637 ADVANCED TERRA TESTING, INC.

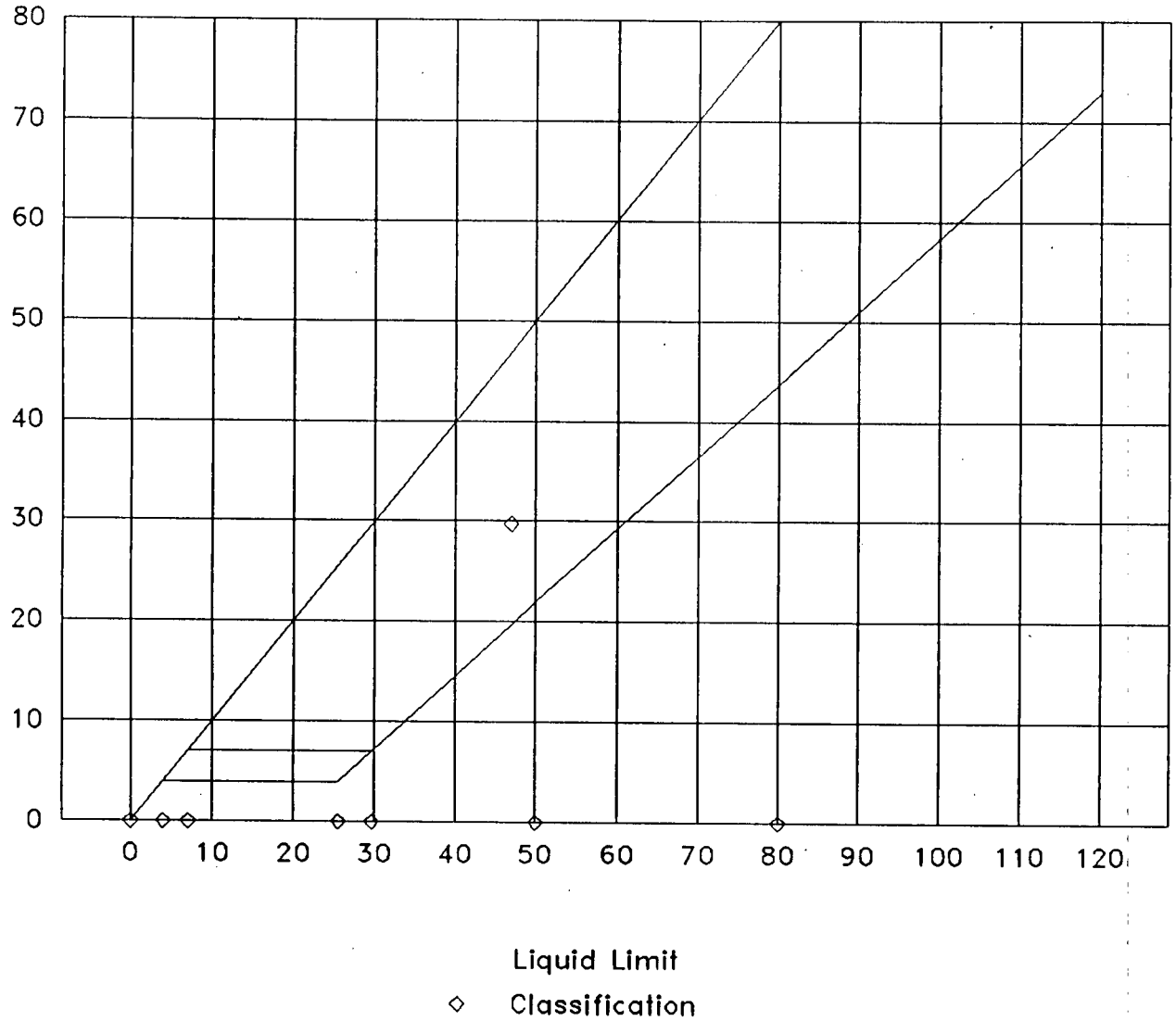
Atterberg Limits, Flow Curve

G2-SB-10, 1.5-5.0', 404637



PLASTICITY CHART

G2-SB-10, 1.5-5.0', 404637



ATTERBERG LIMITS TEST
ASTM D 4318

CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13I
BORING NO.	G2-SB-11	SAMPLED	4-27-95
DEPTH	1.5-5.0'	TEST STARTED	6-2-95 WEB
SAMPLE NO.	404642	TEST FINISHED	6-6-95 RW
SOIL DESCR.	Fernald		
TEST TYPE	ATTERBERG		

Plastic Limit Determination

	1	2	3
Dish	B28	B73	B67
Wt Dish & Wet Soil	6.89	7.43	7.52
Wt Dish & Dry Soil	6.08	6.53	6.61
Wt of Moisture	0.81	0.90	0.91
Wt of Dish	1.05	1.05	1.04
Wt of Dry Soil	5.03	5.48	5.57
Moisture Content	16.10	16.42	16.34

Liquid Limit Determination — Device Number 0258

	1	2	3	4	5
Dish	2038	2062	B63	2054	2032
Number of Blows	21	33	23	15	10
Wt Dish & Wet Soil	19.70	21.77	17.44	21.28	21.63
Wt Dish & Dry Soil	15.41	17.25	13.71	16.46	16.49
Wt of Moisture	4.29	4.52	3.73	4.82	5.14
Wt of Dish	1.05	1.04	1.04	1.05	1.05
Wt of Dry Soil	14.36	16.21	12.67	15.41	15.44
Moisture Content	29.87	27.88	29.44	31.28	33.29
Calculated Moisture cont	29.871	27.835	29.461	31.387	33.214

Liquid Limit	29.1
Plastic Limit	16.3
Plasticity Index	12.8

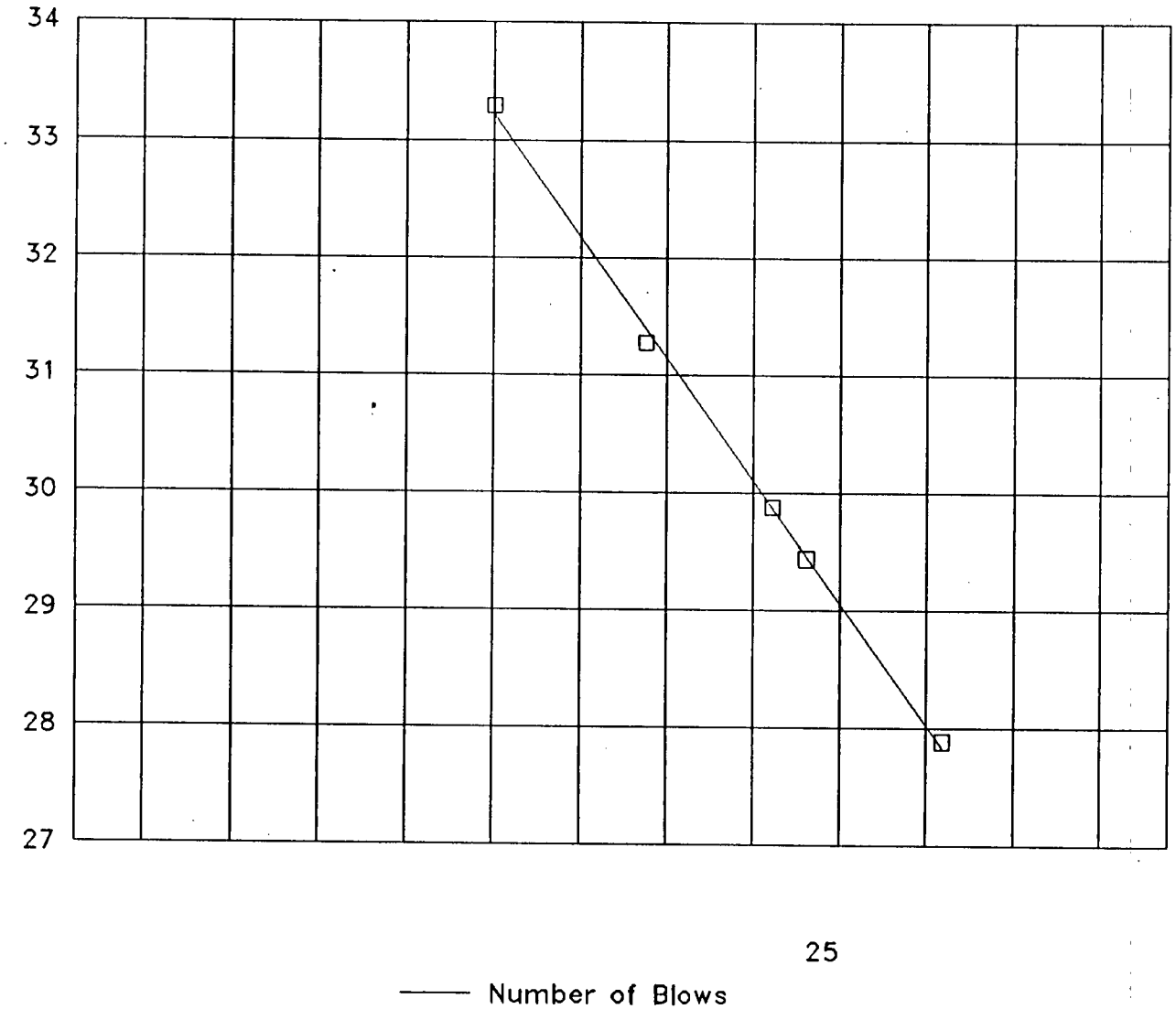
Atterberg Classification CL

Data entry by: NAA Date: 6-6-95
Checked by:_____ Date:_____
FileName: SAG0642

ADVANCED TERRA TESTING, INC.

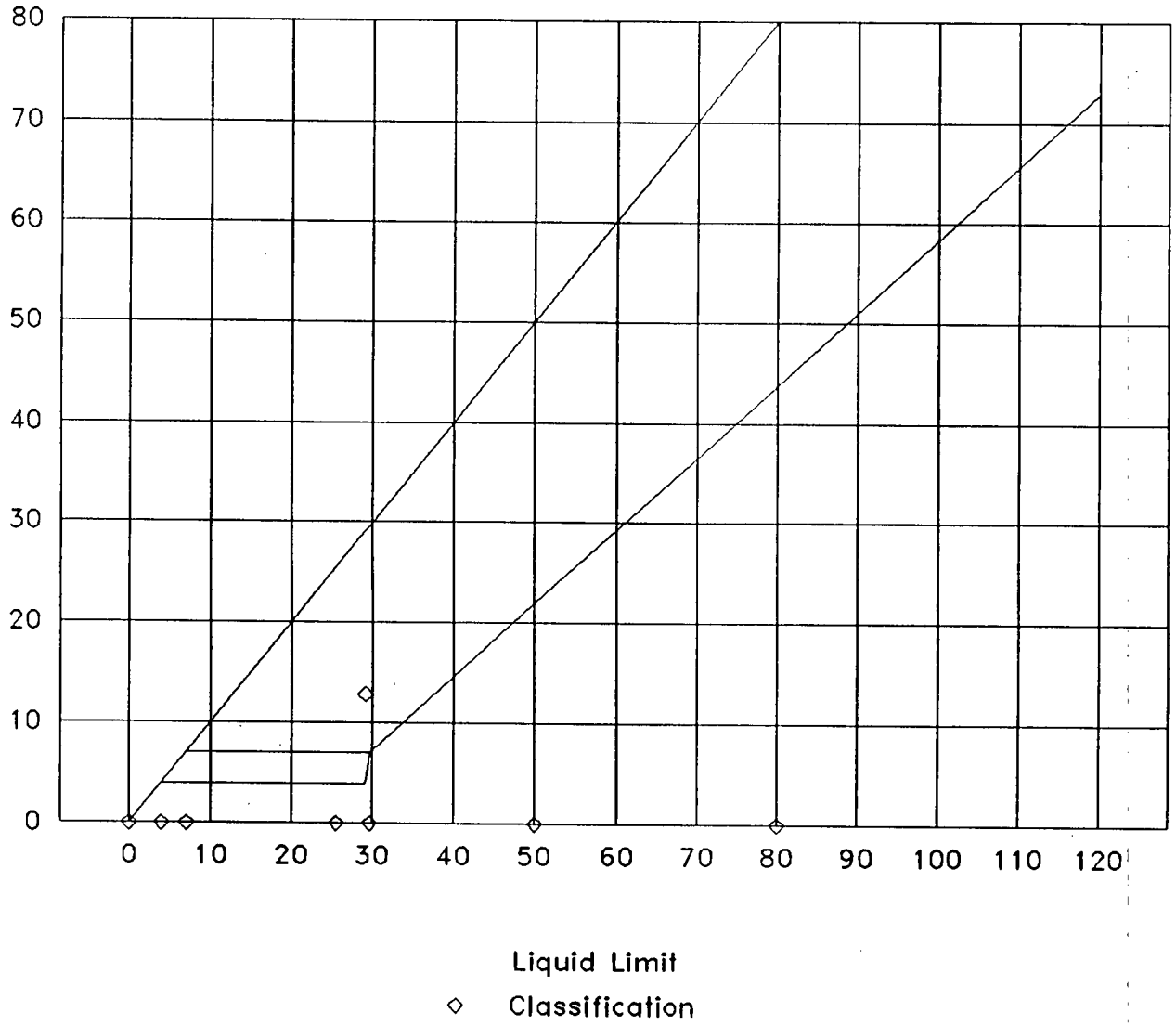
Atterberg Limits, Flow Curve

G2-SB-11, 1.5-5.0', 404642



PLASTICITY CHART

G2-SB-11, 1.5-5.0', 404642



226

000267

424

ATTERBERG LIMITS TEST
ASTM D 4318

CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13I

BORING NO.	G2-SB-12	SAMPLED	4-21-95 JC, BN
DEPTH	1.5-4.2'	TEST STARTED	5-22-95 WEB
SAMPLE NO.	404599	TEST FINISHED	5-22-95 WEB
SOIL DESCR.	Fernald		
TEST TYPE	ATTERBERG		

Plastic Limit
Determination

	1	2	3
Dish	B10	B36	2068
Wt Dish & Wet Soil	9.38	8.96	7.99
Wt Dish & Dry Soil	8.03	7.71	6.87
Wt of Moisture	1.35	1.25	1.12
Wt of Dish	1.03	1.05	1.05
Wt of Dry Soil	7.00	6.66	5.82
Moisture Content	19.29	18.77	19.24

Liquid Limit Device Number 0255
Determination

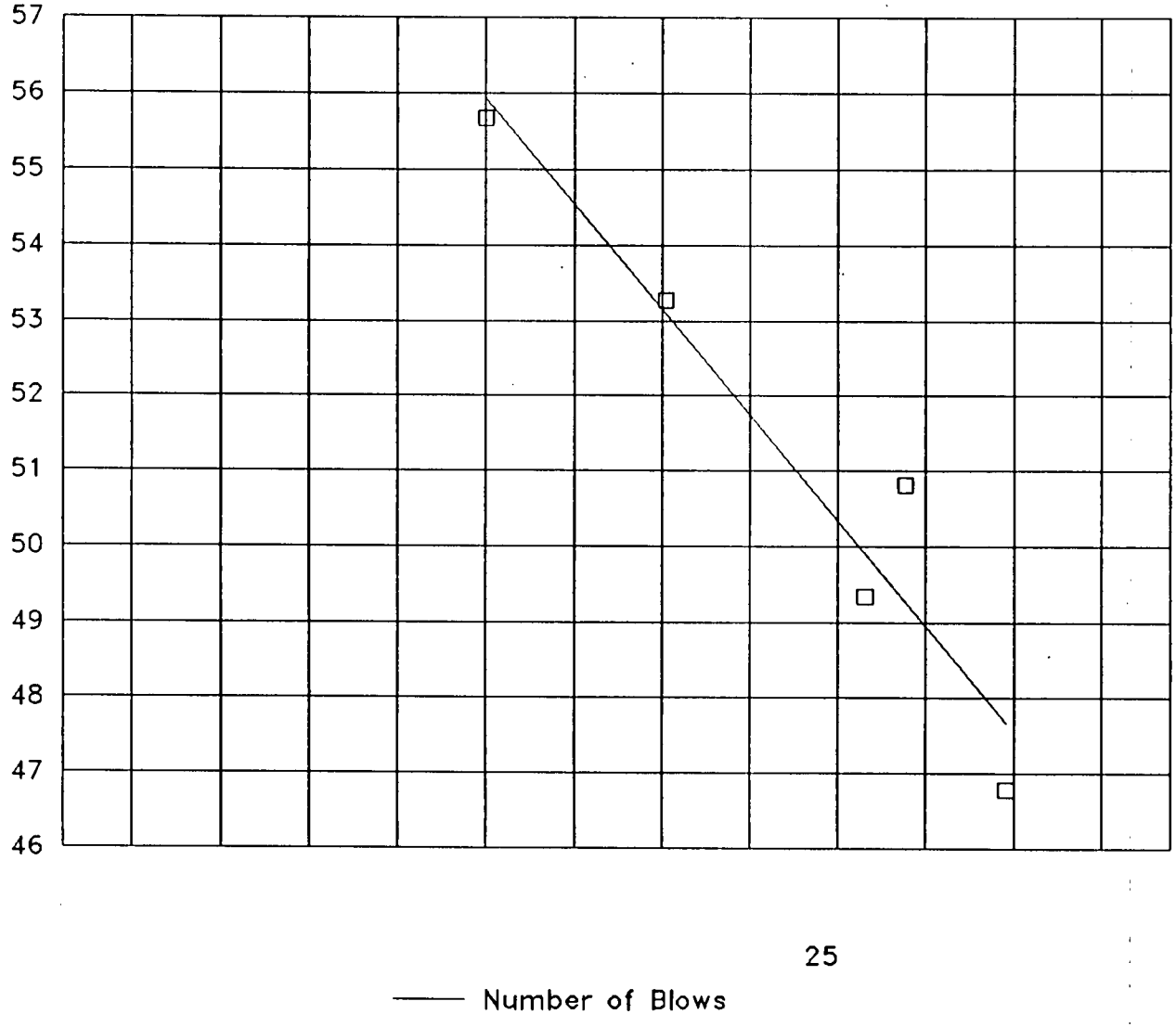
	1	2	3	4	5
Dish	37C	41C	2072	2033	B71
Number of Blows	39	27	30	16	10
Wt Dish & Wet Soil	16.34	22.43	16.00	20.95	22.42
Wt Dish & Dry Soil	11.46	15.36	10.96	14.03	14.77
Wt of Moisture	4.88	7.07	5.04	6.92	7.65
Wt of Dish	1.03	1.03	1.04	1.04	1.03
Wt of Dry Soil	10.43	14.33	9.92	12.99	13.74
Moisture Content	46.79	49.34	50.81	53.27	55.68
Calculated Moisture cont	47.676	49.909	49.269	53.086	55.940

Liquid Limit	50.4
Plastic Limit	19.1
Plasticity Index	31.3
Atterberg Classification	CH

Data entry by: NAA Date: 5-23-95
Checked by: DSR Date: 5-25-95
FileName: B:SAG0599 ADVANCED TERRA TESTING, INC.

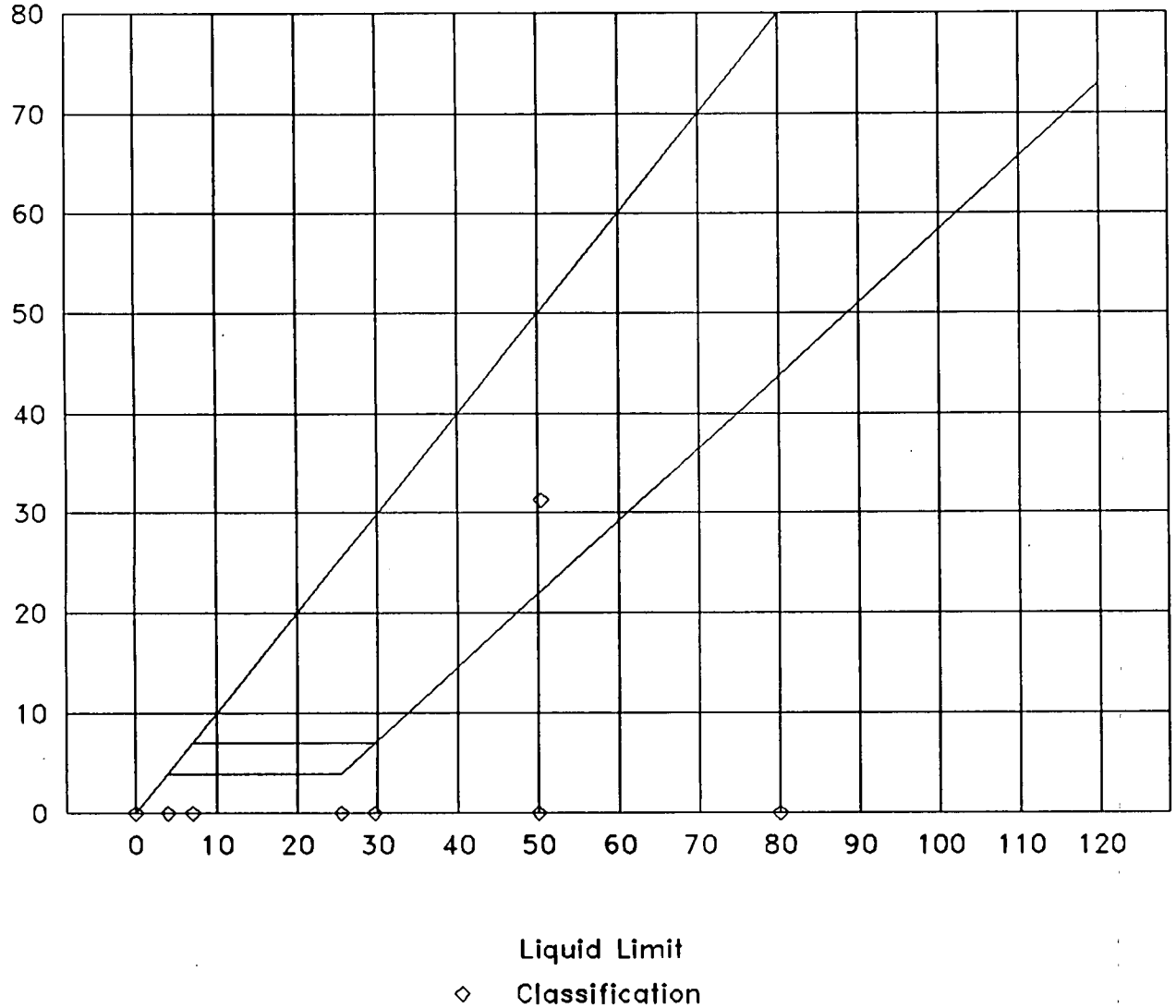
Atterberg Limits, Flow Curve

G2-SB-12, 1.5-4.2', 404599



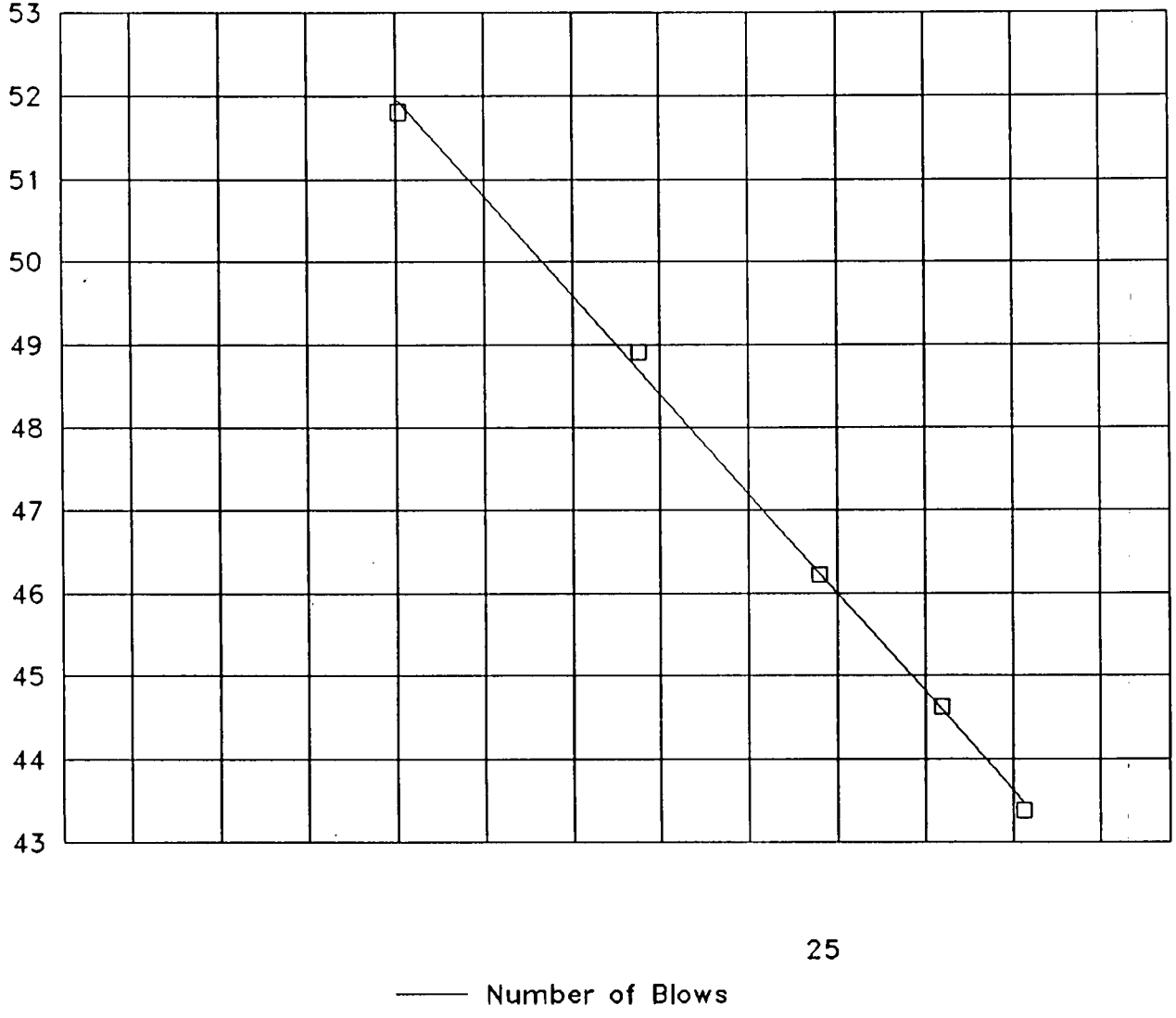
PLASTICITY CHART

G2-SB-12, 1.5-4.2', 404599



Atterberg Limits, Flow Curve

G2-SB-13, 1.5-5.0', 404583



ATTERBERG LIMITS TEST
ASTM D 4318

CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13C

BORING NO.	G2-SB-14	SAMPLED	4-20-95 JC, BN
DEPTH	1.5-5.0'	TEST STARTED	5-20-95 WEB
SAMPLE NO.	404578	TEST FINISHED	5-20-95 WEB
SOIL DESCR.	Fernald		
TEST TYPE	ATTERBERG		

Plastic Limit
Determination

	1	2	3
Dish	18C	1C	B7
Wt Dish & Wet Soil	6.02	5.88	6.94
Wt Dish & Dry Soil	5.25	5.14	6.04
Wt of Moisture	0.77	0.74	0.90
Wt of Dish	1.05	1.06	1.05
Wt of Dry Soil	4.20	4.08	4.99
Moisture Content	18.33	18.14	18.04

Liquid Limit Device Number 0258
Determination

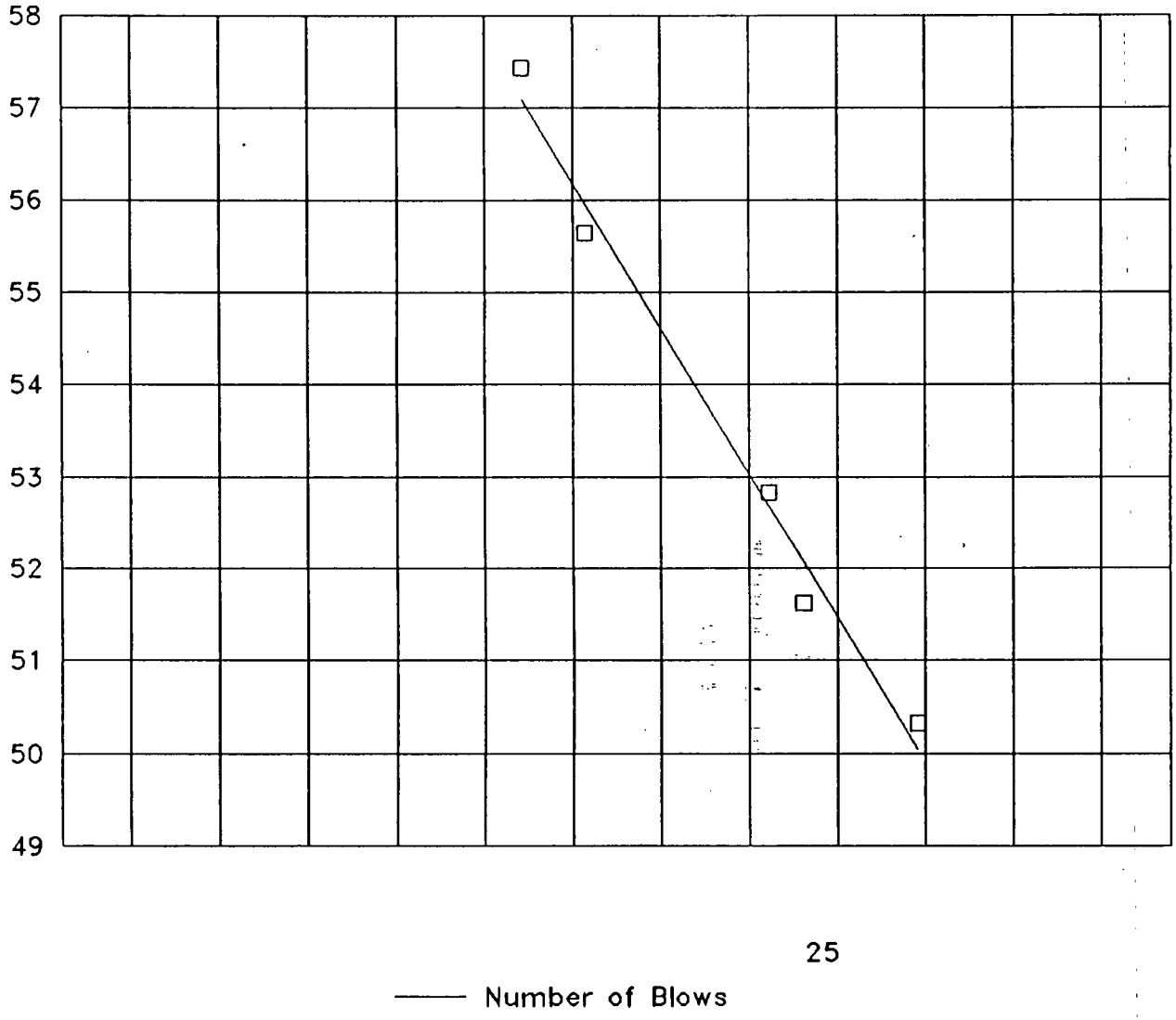
	1	2	3	4	5
Dish	2016	4002	2010	42C	17C
Number of Blows	31	23	21	13	11
Wt Dish & Wet Soil	17.24	16.51	21.86	18.31	22.86
Wt Dish & Dry Soil	11.82	11.25	14.67	12.14	14.90
Wt of Moisture	5.42	5.26	7.19	6.17	7.96
Wt of Dish	1.05	1.06	1.06	1.05	1.04
Wt of Dry Soil	10.77	10.19	13.61	11.09	13.86
Moisture Content	50.32	51.62	52.83	55.64	57.43
Calculated Moisture cont	50.040	52.070	52.689	55.952	57.089

Liquid Limit	51.5
Plastic Limit	18.2
Plasticity Index	33.3
Atterberg Classification	CH

Data entry by: NAA Date: 5-23-95
Checked by: BA Date: 5-25-95
FileName: B:SAG0578 ADVANCED TERRA TESTING, INC.

Atterberg Limits, Flow Curve

200149301, 1.5-5.0', 404578



GEOTECHNICAL INVESTIGATION ON-SITE DISPOSAL FACILITY

SOIL INVESTIGATION DATA REPORT

VOLUME 2

Operable Unit 2
Project Order 140

August 18, 1995

for
PARSONS, Environmental Remedial Action Project
Fernald Environmental Management Project
Fernald, Ohio

by
Science Applications International Corporation
14062 Denver West Parkway, Suite 200
Golden, Colorado 80401
(303) 279-7242

Under Subcontract No. 7663S0018 to PARSONS

GEOTECHNICAL INVESTIGATION ON-SITE DISPOSAL FACILITY

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Triaxial Shear, Consolidated, Undrained with Pore Pressure Measurements - TX/CUpp Remolded to 95% MDD Staged - 3 Points
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	"	50-51.5	405016	1	11
	G2-126	7.5-9.5	404768	1	8
	"	15-17	404773	1	2
	"	25-27	404778	1	8
	"	35-37	404783	1	11
	"	40-41.5	404785	1	10
	"	45-46.5	404786	1	6
	"	50-51.5	404787	1	10
	"	55-56.5	404788	1	4
	"	60-61.5	404789	1	6
	"	65-66.5	404790	1	4
	"	70-71.5	404791	1	6
	"	75-76.5	404792	1	6
	"	80-81.5	404793	1	10
	G2-127	7.5-9.5	404751	1	11
	"	15-17	404756	1	8
	G2-128	12.5-14.5	405046	1	5
	"	17.5-19.5	405049	1	5
	G2-129	5-7.5	404729	1	5
	"	10-12.5	404732	1	5
	"	24-26.5	404740	1	5
	G2-130	5-7	405075	1	7
	"	10-12	405077	1	10
	"	15-17	405080	1	10
	"	20-22	405083	1	10
	"	30-32	405088	1	7
	"	40-41.5	405091	1	6

Test	Boring No.	Depth (ft)	Sample No.	Vol.	Page No.
Specific Gravity (cont.)	G2-130 cont.	45-46.5	405092	1	6
	"	55-56.5	405094	1	4
	"	65-66.5	405096	1	4
	"	70-71.5	405097	1	10
	"	75-76.5	405098	1	4
	"	80-81.5	405099	1	4
	G2-131	7.5-9.5	404704	1	11
	"	17.5-19.5	404709	1	11
	"	27.5-29.5	404713	1	11
	"	45-47	404719	1	11
	G2-132	5-7	405102	1	7
	"	10-12	405105	1	7
	"	15-17	405108	1	7
	"	20-22	405111	1	7
	G2-133	7.5-9.5	405055	1	8
	"	15-17	405059	1	8
	"	17.5-19.5	405061	1	8
	"	25-27	405065	1	8
	G2-SB-1	1.5-5	404608	1	9
	G2-SB-2	1.5-5	404603	1	11
	G2-SB-3	1.5-5	404591	1	3
	G2-SB-4	1.5-5	404615	1	9
	G2-SB-5	1.5-5	404627	1	9
	G2-SB-6	1.5-5	404595	1	3
	G2-SB-7	1.5-5	404632	1	3
	G2-SB-8	1.5-5	404621	1	3
	G2-SB-10	1.5-5	404637	1	3
	G2-SB-11	1.5-5	404642	1	9
	G2-SB-12	1.5-4.2	404599	1	3

Test	Boring No.	Depth (ft)	Sample No.	Vol.	Page No.
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	G2-SB-8,9,10,11	0-1.5	404644	1	2
Moisture Content (D2216)	G2-120	5-7	405124	1	19
	G2-121	12.5-14.5	404814	1	19
	"	17.5-19.5	404817	1	19
	G2-122	5-7	404821	1	24
	"	10-12	404824	1	19
	"	15-17	404827	1	19
	G2-123	12.5-14.5	404800	1	19
	G2-124	25-26.5	405011	1	13
	"	30-31.5	405012	1	13
	"	35-36.5	405013	1	13
	"	40-41.5	405014	1	13
	"	45-46.5	405015	1	13
	"	50-51.5	405016	1	13
	"	55-56.5	405017	1	13
	"	60-61.5	405018	1	13
	"	65-66.5	405019	1	15
	"	70-71.5	405020	1	15
	"	80-82	405021	1	15
	G2-125	2.5-4.5	405023	1	20
	"	7.5-9.5	405026	1	20
	"	17.5-19.5	405033	1	20
	G2-126	12.5-14.5	404771	1	23
	"	25-27	404778	1	22
	"	25-27	404778	1	24
	"	35-37	404783	1	24
	"	40-41.5	404785	1	21
	"	45-46.5	404786	1	21

Test	Boring No.	Depth (ft)	Sample No.	Vol.	Page No.
Moisture Content (cont.)	G2-126 con.t	50-51.5	404787	1	21
	"	55-56.5	404788	1	21
	"	60-61.5	404789	1	21
	"	65-66.5	404790	1	21
	"	70-71.5	404791	1	21
	"	75-76.5	404792	1	21
	"	80-81.5	404793	1	17
	G2-127	28-30	404763	1	23
	G2-128	2.5-4.5	405040	1	22
	"	17.5-19.5	405049	1	22
	G2-129	5-7.5	404729	1	22
	"	10-12.5	404732	1	22
	"	10-12.5	404732	1	24
	G2-130	5-7	405075	1	23
	"	20-22	405083	1	23
	"	40-41.5	405091	1	17
	"	45-46.5	405092	1	17
	"	55-56.5	405094	1	17
	"	65-66.5	405096	1	17
	"	70-71.5	405097	1	17
	"	75-76.5	405098	1	17
	"	80-81.5	405099	1	17
	G2-131	7.5-9.5	404704	1	20
	"	45-47	404719	1	24
	"	60-61.5	404723	1	15
	"	65-66.5	404724	1	15
	"	70-71.5	404725	1	15
	"	75-76.5	404726	1	15
	"	81-82.3	404727	1	15

Test	Boring No.	Depth (ft)	Sample No.	Vol.	Page No.
Moisture Content (cont.)	G2-132	5-7	405102	1	22
	"	10-12	405105	1	19
	"	20-22	405111	1	19
	"	20-22	405111	1	24
	G2-133	2.5-4.5	405053	1	23
	"	15-17	405059	1	23
	"	17.5-19.5	405061	1	23
	"	25-27	405065	1	23
	G2-134	12-14	405140	1	22
	G2-SB-1	1.5-5	404608	1	18
	G2-SB-2	1.5-5	404603	1	18
	G2-SB-3	1.5-5	404591	1	18
	G2-SB-4	1.5-5	404615	1	18
	G2-SB-5	1.5-5	404627	1	16
	G2-SB-6	1.5-5	404595	1	18
	G2-SB-7	1.5-5	404632	1	16
	G2-SB-8	1.5-5	404621	1	18
	G2-SB-9	1.5-5	404587	1	20
	G2-SB-10	1.5-5	404637	1	16
	G2-SB-11	1.5-5	404642	1	16
	G2-SB-12	1.5-4.2	404599	1	18
	G2-SB-13	1.5-5	404583	1	20
	G2-SB-14	1.5-5	404578	1	20
	G2-SB-16	1-2	404650	1	14
	"	1-2	404650	1	14
	G2-SB-17	1-2	405366	1	14
	"	1-2	405366	1	14
	G2-SB-2,3,4,6	0-1.5	404617	1	18
	G2-SB-8,9,10,11	0-1.5	404644	1	16

Test	Boring No.	Depth (ft)	Sample No.	Vol.	Page No.
Moisture Content-Microwave (D4643)	G2-120	5-7	405124	1	27
	G2-121	12.5-14.5	404814	1	27
	G2-122	5-7	404821	1	28
	"	10-12	404824	1	27
	G2-123	12.5-14.5	404800	1	26
	G2-125	2.5-4.5	405023	1	27
	G2-126	25-27	404778	1	28
	"	35-37	404783	1	28
	G2-129	5-7.5	404729	1	27
	"	10-12.5	404732	1	28
	G2-130	5-7	405075	1	26
	G2-131	7.5-9.5	404704	1	26
	"	7.5-9.5	404704	1	27
	"	45-47	404719	1	28
	G2-132	5-7	405102	1	27
	"	10-12	405105	1	26
	"	20-22	405111	1	28
	G2-SB-16	1-2	404650	1	26
	"	1-2	404650	1	26
	G2-SB-17	1-2	405366	1	26
	"	1-2	405366	1	26
Moisture and Density (D2216 and D2937)	G2-122	15-17	404827	1	30
	G2-125	2.5-4.5	405023	1	30
	G2-126	12.5-14.5	404771	1	30
	G2-128	7.5-9.5	405043	1	30
	"	17.5-19.5	405049	1	30
	G2-129	10-12.5	404732	1	30
	G2-130	20-22	405083	1	30

Test	Boring No.	Depth (ft)	Sample No.	Vol.	Page No.
Moisture and Density (cont.)	G2-133	2.5-4.5	405053	1	30
Organic Matter Content (D2974) (with pertinent moisture content analyses on pages 33A, 33B, 35A, 35B, 36A, 38A, 38B)	G2-SB-1	0-0.5	404605	1	37
	"	0.5-1	404606	1	34
	"	1-1.5	404607	1	38
	G2-SB-2	0-0.5	404600	1	38
	"	0.5-1	404601	1	37
	"	1-1.5	404602	1	38
	G2-SB-3	0-0.5	404588	1	37
	"	0.5-1	404589	1	34
	"	1-1.5	404590	1	35
	G2-SB-4	0-0.5	404612	1	38
	"	0.5-1	404613	1	38
	"	1-1.5	404614	1	37
	G2-SB-5	0-0.5	404624	1	37
	"	0.5-1	404625	1	37
	"	1-1.5	404626	1	36
	G2-SB-6	0-0.5	404592	1	35
	"	0.5-1	404593	1	34
	"	1-1.5	404594	1	34
	G2-SB-7	0-0.5	404629	1	34
	"	0.5-1	404630	1	35
	"	1-1.5	404631	1	36
	G2-SB-8	0-0.5	404618	1	37
	"	0.5-1	404619	1	37
	"	1-1.5	404620	1	36
	G2-SB-9	0-0.5	404584	1	32
	"	0.5-1	404585	1	32
	"	1-1.5	404586	1	32
	G2-SB-10	0-0.5	404634	1	35

Test	Boring No.	Depth (ft)	Sample No.	Vol.	Page No.
Organic Matter Content (cont.)	G2-SB-10	0.5-1	404635	1	34
	"	1-1.5	404636	1	34
	G2-SB-11	0-0.5	404639	1	39
	"	0.5-1	404640	1	39
	"	1-1.5	404641	1	39
	G2-SB-12	0-0.5	404596	1	35
	"	0.5-1	404597	1	38
	"	1-1.5	404598	1	34
	G2-SB-13	0-0.5	404580	1	32
	"	0.5-1	404581	1	32
	"	1-1.5	404582	1	32
	G2-SB-14	0-0.5	404575	1	33
	"	0.5-1	404576	1	32
	"	1-1.5	404577	1	32
Atterberg Limits (D4318)	G2-120	5-7	405124	1	41
	G2-121	10-11.7	404812	1	44
	"	12.5-14.5	404814	1	47
	"	17.5-19.5	404817	1	50
	G2-122	5-7	404821	1	53
	"	10-12	404824	1	56
	"	15-17	404827	1	59
	G2-123	7.5-9.5	404797	1	67
	"	12.5-14.5	404800	1	65
	"	20-21.2	404804	1	68
	G2-124	5-7	405002	1	71
	"	10-12	405004	1	74
	G2-125	2.5-4.5	405023	1	77
	"	7.5-9.5	405026	1	80
	"	12.5-14.5	405029	1	83

Test	Boring No.	Depth (ft)	Sample No.	Vol.	Page No.
Atterberg Limits (cont.)	G2-125	17.5-19.5	405033	1	86
	G2-126	7.5-9.5	404768	1	89
	"	12.5-14.5	404771	1	92
	"	15-17	404773	1	95
	"	25-27	404778	1	98
	"	35-37	404783	1	101
	G2-127	7.5-9.5	404751	1	104
	"	15-17	404756	1	107
	"	28-30	404763	1	110
	G2-128	2.5-4.5	405040	1	113
	"	7.5-9.5	405043	1	116
	"	12.5-14.5	405046	1	119
	"	17.5-19.5	405049	1	122
	G2-129	5-7.5	404729	1	125
	"	10-12.5	404732	1	128
	"	24-26.5	404740	1	131
	G2-130	5-7	405075	1	134
	"	10-12	405077	1	137
	"	15-17	405080	1	140
	"	20-22	405083	1	143
	"	30-32	405088	1	146
	G2-131	7.5-9.5	404704	1	149
	"	17.5-19.5	404709	1	152
	"	27.5-29.5	404713	1	155
	"	45-47	404719	1	158
	"	60-61.5	404723	1	161
	G2-132	5-7	405102	1	164
	"	10-12	405105	1	167
	"	15-17	405108	1	170

Test	Boring No.	Depth (ft)	Sample No.	Vol.	Page No.
Atterberg Limits (cont.)	G2-132	20-22	405111	1	173
	G2-133	2.5-4.5	405053	1	176
	"	7.5-9.5	405055	1	179
	"	15-17	405059	1	182
	"	17.5-19.5	405061	1	185
	"	25-27	405065	1	188
	G2-134	12-14	405140	1	191
	G2-SB-1	1.5-5	404608	1	194
	G2-SB-2	1.5-5	404603	1	197
	G2-SB-3	1.5-5	404591	1	200
	G2-SB-4	1.5-5	404615	1	203
	G2-SB-5	1.5-5	404627	1	206
	G2-SB-6	1.5-5	404595	1	209
	G2-SB-7	1.5-5	404632	1	212
	G2-SB-8	1.5-5	404621	1	215
	G2-SB-9	1.5-5	404587	1	218
	G2-SB-10	1.5-5	404637	1	221
	G2-SB-11	1.5-5	404642	1	224
	G2-SB-12	1.5-4.2	404599	1	227
	G2-SB-13	1.5-5	404583	1	230
	G2-SB-14	1.5-5	404578	1	233
Hydrometer Analysis with Mechanical Grain Size Analysis (D422)	G2-120	5-7	405124	2	237
	G2-121	10-11.7	404812	2	240
	"	12.5-14.5	404814	2	243
	"	17.5-19.5	404817	2	246
	G2-122	5-7	404821	2	249
	"	10-12	404824	2	252
	"	15-17	404827	2	255

Test	Boring No.	Depth (ft)	Sample No.	Vol.	Page No.
Hydrometer Analysis with Mechanical Grain Size Analysis (cont.)	G2-123	7.5-9.5	404797	2	258
	"	12.5-14.5	404800	2	261
	"	20-21.2	404804	2	264
	G2-124	5-7	405002	2	267
	"	10-12	405004	2	270
	"	25-26.5	405011	2	273
	"	30-31.5	405012	2	276
	"	35-36.5	405013	2	279
	"	40-41.5	405014	2	282
	"	45-46.5	405015	2	285
	"	50-51.5	405016	2	288
	"	55-56.5	405017	2	291
	"	60-61.5	405018	2	294
	"	65-66.5	405019	2	297
	"	70-71.5	405020	2	300
	G2-125	2.5-4.5	405023	2	303
	"	7.5-9.5	405026	2	306
	"	12.5-14.5	405029	2	309
	"	17.5-19.5	405033	2	312
	G2-126	7.5-9.5	404768	2	315
	"	12.5-14.5	404771	2	318
	"	15-17	404773	2	321
	"	25-27	404778	2	324
	"	35-37	404783	2	327
	"	40-41.5	404785	2	330
	"	45-46.5	404786	2	333
	"	50-51.5	404787	2	336
	"	55-56.5	404788	2	339

Test	Boring No.	Depth (ft)	Sample No.	Vol.	Page No.
Hydrometer Analysis with Mechanical Grain Size Analysis (cont.)	"	60-61.5	404789	2	342
	"	65-66.5	404790	2	345
	"	70-71.5	404791	2	348
	"	75-76.5	404792	2	351
	"	80-81.5	404793	2	354
	G2-127	7.5-9.5	404751	2	357
	"	15-17	404756	2	360
	"	28-30	404763	2	363
	G2-128	2.5-4.5	405040	2	366
	"	7.5-9.5	405043	2	369
	"	12.5-14.5	405046	2	372
	"	17.5-19.5	405049	2	375
	G2-129	5-7.5	404729	2	378
	"	10-12.5	404732	2	381
	"	24-26.5	404740	2	384
	G2-130	5-7	405075	2	387
	"	10-12	405077	2	390
	"	15-17	405080	2	393
	"	20-22	405083	2	396
	"	30-32	405088	2	399
	"	40-41.5	405091	2	402
	"	45-46.5	405092	2	405
	"	55-56.5	405094	2	408
	"	65-66.5	405096	2	411
	"	70-71.5	405097	2	414
	"	75-76.5	405098	2	417
	"	80-81.5	405099	2	420
	G2-131	7.5-9.5	404704	2	423

Test	Boring No.	Depth (ft)	Sample No.	Vol.	Page No.
Hydrometer Analysis with Mechanical Grain Size Analyses (cont.)	"	17.5-19.5	404709	2	426
	"	27.5-29.5	404713	2	429
	"	45-47	404719	2	432
	"	60-61.5	404723	2	435
	"	65-66.5	404724	2	438
	"	70-71.5	404725	2	441
	"	75-76.5	404726	2	444
	"	81-82.3	404727	2	447
	G2-132	5-7	405102	2	450
	"	10-12	405105	2	453
	"	15-17	405108	2	456
	"	20-22	405111	2	459
	G2-133	2.5-4.5	405053	2	462
	"	7.5-9.5	405055	2	465
	"	15-17	405059	2	468
	"	17.5-19.5	405061	2	471
	"	25-27	405065	2	474
	G2-134	12-14	405140	2	477
	G2-SB-1	1.5-5	404608	2	480
	G2-SB-2	1.5-5	404603	2	483
	G2-SB-3	1.5-5	404591	2	486
	G2-SB-4	1.5-5	404615	2	489
	G2-SB-5	1.5-5	404627	2	492
	G2-SB-6	1.5-5	404595	2	495
	G2-SB-7	1.5-5	404632	2	498
	G2-SB-8	1.5-5	404621	2	501
	G2-SB-9	1.5-5	404587	2	504
	G2-SB-10	1.5-5	404637	2	507

Test	Boring No.	Depth (ft)	Sample No.	Vol.	Page No.
Hydrometer Analysis with Mechanical Grain Size Analysis (cont.)	G2-SB-11	1.5-5	404642	2	510
	G2-SB-12	1.5-4.2	404599	2	513
	G2-SB-13	1.5-5	404583	2	516
	G2-SB-14	1.5-5	404578	2	519
Consolidation Test - Natural Moisture (D2435)	G2-122	5-7	404821	3	523
	G2-124	10-12	405004	3	533
	G2-126	15-17	404773	3	543
	"	35-37	404783	3	553
	G2-127	7.5-9.5	404751	3	563
	G2-128	12.5-14.5	405046	3	573
	G2-130	15-17	405080	3	583
	G2-131	17.5-19.5	404709	3	593
	"	27.5-29.5	404713	3	603
	"	45-47	404719	3	613
	G2-133	7.5-9.5	405055	3	623
Consolidation Test - Saturated (D2435)	G2-126	35-37	404783	3	634
	G2-127	7.5-9.5	404751	3	644
	G2-131	17.5-19.5	404709	3	654
	"	45-47	404719	3	664
	G2-133	7.5-9.5	405055	3	674
Consolidation Test - Remolded to 95% MDD (D2435)	G2-124	10-12	405004	3	685
	G2-126	15-17	404773	3	695
	G2-130	15-17	405080	3	705
	G2-SB-4	1.5-5	404615	3	715
	G2-SB-7	1.5-5	404632	3	725
Consolidation Test - Remolded to 85% MDD (D2435)	G2-120	5-7	405124	3	736

Test	Boring No.	Depth (ft)	Sample No.	Vol.	Page No.
Consolidation Test - Remolded to 85% MDD (cont.)	G2-124	10-12	405004	3	746
	G2-126	15-17	404773	3	756
	G2-128	12.5-14.5	405046	3	766
	G2-130	15-17	405080	3	776
	G2-SB-1	1.5-5	404608	3	786
	G2-SB-4	1.5-5	404615	3	796
	G2-SB-7	1.5-5	404632	3	806
	G2-SB-11	1.5-5	404642	3	816
	G2-SB-2,3,4,6 Top Soil	0-1.5	404617	3	826
	G2-SB-8,9,10,11	0-1.5	404644	3	836
Triaxial Shear Test - TX/UU Saturated (D2850)	G2-127	7.5-9.5	404751	4	847
	G2-128	2.5-4.5	405040	4	851
	G2-129	5-7.5	404729	4	855
	G2-130	5-7	404075	4	859
	"	15-17	405080	4	863
	G2-131	7.5-9.5	404704	4	867
	"	27.5-29.5	404713	4	871
	"	45-47	404719	4	875
	G2-132	5-7	405102	4	879
	"	10-12	405105	4	883
	G2-133	7.5-9.5	405055	4	887
	G2-134	12-14	405140	4	891
Triaxial Shear Test - TX/UU Field Moisture (D2850)	G2-122	10-12	404824	4	896
	G2-124	5-7	405002	4	899
	G2-125	7.5-9.5	405026	4	902
	"	17.5-19.5	405033	4	905

Test	Boring No.	Depth (ft)	Sample No.	Vol.	Page No.
Triaxial Shear Test - TX/UU Field Moisture (cont.)	G2-126	15-17	404773	4	908
Triaxial Shear Test - TX/UU Saturated, Remolded to 95% MDD (D2850)	G2-122	10-12	404824	4	912
	G2-127	7.5-9.5	404751	4	916
	G2-131	7.5-9.5	404704	4	920
	G2-132	10-12	405105	4	924
	G2-134	12-14	405140	4	928
Triaxial Shear Test - TX/UU Saturated, Remolded to 85% MDD (D2850)	G2-122	10-12	404824	4	933
	G2-127	7.5-9.5	404751	4	937
	G2-134	12-14	405140	4	941
Triaxial Shear, Consolidated, Undrained with Pore Pressure Measurements-TX/CUpp, 3 points (D4767)	G2-127	15-17	404756A	4	946
	"	15-17	404756B	4	951
	"	15-17	404756C	4	956
	G2-129	24-26.5	404740A	4	961
	"	24-26.5	404740B	4	966
	"	24-26.5	404740C	4	971
	G2-130	10-12	405077A	4	976
	"	"	405077B	4	981
	"	"	405077C	4	986
	"	30-32	405088A	4	991
	"	"	405088B	4	996
	"	"	405088C	4	1001
	G2-132	15-17	405108A	4	1006
	"	"	405108B	4	1011
	"	"	405108C	4	1016

Test	Boring No.	Depth (ft)	Sample No.	Vol.	Page No.
	G2-133	15-17	405059A	4	1021
	"	"	405059B	4	1026
	"	"	405059C	4	1031
Triaxial Shear, Consolidated, Undrained with Pore Pressure Measurements-TX/CUpp Staged-3 Points (D4767)	G2-121	10-11.7	404812-1	5	1037
	"	"	404812-2	5	1042
	"	"	404812-3	5	1047
	G2-122	5-7	404821-1	5	1052
	"	"	404821-2	5	1057
	"	"	404821-3	5	1062
	G2-123	7.5-9.5	404797-1	5	1067
	"	"	404797-2	5	1072
	"	"	404797-3	5	1077
	"	20-21.2	404804-1	5	1082
	"	"	404804-2	5	1087
	"	"	404804-3	5	1092
	G2-124	10-12	405004-1	5	1097
	"	"	405004-2	5	1102
	"	"	405004-3	5	1107
	G2-125	12.5-14.5	405029-1	5	1112
	"	"	405029-2	5	1117
	"	"	405029-3	5	1122
	G2-126	7.5-9.5	404768-1	5	1127
	"	"	404768-2	5	1132
	"	"	404768-3	5	1137
Triaxial Shear, Consolidated, Undrained with Pore Pressure Measurements-TX/CUpp Remolded to 95% MDD, 3 Points (D4767)	G2-128	7.5-9.5	405043A	5	1143

Test	Boring No.	Depth (ft)	Sample No.	Vol.	Page No.
	"	"	405043B	5	1148
	"	"	405043C	5	1153
Triaxial Shear, Consolidated, Undrained with Pore Pressure Measurements-TX/CUpp Staged - 3 Points (D4767)	G2-125	2.5-4.5	405023-1	5	1159
	"	"	405023-2	5	1164
	"	"	405023-3	5	1169
	G2-126	12.5-14.5	404771-1	5	1174
	"	"	404771-2	5	1179
	"	"	404771-3	5	1184
	G2-130	20-22	405083-1	5	1189
	"	"	405083-2	5	1194
	"	"	405083-3	5	1199
	G2-132	5-7	405102-1	5	1204
	"	"	405102-2	5	1209
	"	"	405102-3	5	1214
Triaxial Shear, Consolidated, Undrained with Pore Pressure Measurements-TX/CUpp Remolded to 85% MDD-3 Points (D4767)	G2-122	15-17	404827A	5	1220
	"	"	404827B	5	1225
	"	"	404827C	5	1230
Triaxial Shear, Consolidated, Undrained with Pore Pressure Measurements-TX/CUpp Staged - 3 Points (D4767)	G2-133	2.5-4.5	405053-1	5	1236
	"	"	405053-2	5	1241
	"	"	405053-3	5	1246
Triaxial, Back Pressure Permeability TX/PBP (D5084)	G2-121	12.5-14.5	404814	5	1252
	"	17.5-19.5	404817	5	1256
	G2-123	12.5-14.5	404800	5	1260

Test	Boring No.	Depth (ft)	Sample No.	Vol.	Page No.
	G2-126	25-27	404778	5	1264
	G2-127	28-30	404763-B	5	1268
	G2-132	20-22	405111	5	1272
	G2-133	17.5-19.5	405061	5	1276
	"	25-27	405065	5	1280
Triaxial, Back Pressure Permeability TX/PBP Remolded to 95% MDD (D5084)	G2-SB-1	1.5-5	404608	6	1285
	G2-SB-2	"	404603	6	1289
	G2-SB-3	"	404591	6	1293
	G2-SB-4	"	404615	6	1297
	G2-SB-5	"	404627	6	1301
	G2-SB-6	"	404595	6	1305
	G2-SB-7	"	404632	6	1309
	G2-SB-8	"	404621	6	1313
	G2-SB-9	"	404587	6	1317
	G2-SB-10	"	404637	6	1321
	G2-SB-11	"	404642	6	1325
	G2-SB-12	1.5-4.2	404599	6	1329
	G2-SB-13	1.5-5	404583	6	1333
	G2-SB-14	"	404578	6	1337
Proctor Compaction - Standard (D698)	G2-SB-1	1.5-5	404608	6	1342
	G2-SB-2	"	404603	6	1344
	G2-SB-3	"	404591	6	1346
	G2-SB-4	"	404615	6	1348
	G2-SB-5	"	404627	6	1350
	G2-SB-6	"	404595	6	1352
	G2-SB-7	"	404632	6	1354
	G2-SB-8	"	404621	6	1356

Test	Boring No.	Depth (ft)	Sample No.	Vol.	Page No.
	G2-SB-9	"	404587	6	1358
	G2-SB-10	"	404637	6	1360
	G2-SB-11	"	404642	6	1362
	G2-SB-12	1.5-4.2	404599	6	1364
	G2-SB-13	1.5-5	404583	6	1366
	G2-SB-14	"	404578	6	1368
	G2-SB-15	1-2	404649	6	1371
	G2-SB-16	"	404650	6	1373
	G2-SB-17	"	405366	6	1375
	G2-SB-2,3,4,6	0-1.5	404617	6	1377
	G2-SB-8,9,10,11	0-1.5	404644	6	1379
Shelby Tube Descriptive Logs (Visual Classification Only)	G2-120	5-7	405124	6	1382
	G2-121	10-11.7	404812	6	1383
	"	17.5-19.5	404817	6	1384
	G2-122	5-7	404821	6	1385
	"	10-12	404824	6	1386
	"	15-17	404827	6	1387
	G2-123	7.5-9.5	404797	6	1388
	"	12.5-14.5	404800	6	1389
	"	20-21	404804	6	1390
	G2-124	5-7	405002	6	1391
	"	10-12	405004	6	1392
	G2-125	2.5-4.5	405023	6	1393
	"	7.5-9.5	405026	6	1394
	"	12.5-14.5	405029	6	1395
	"	17.5-19.5	405033	6	1396
	G2-126	7.5-9.5	404768	6	1397

Test	Boring No.	Depth (ft)	Sample No.	Vol.	Page No.
	"	12.5-14.5	404771	6	1398
	"	15-17	404773	6	1399
	"	25-27	404778	6	1400
	"	35-37	404783	6	1401
	G2-127	7.5-9.5	404751	6	1402
	"	15-17	404756	6	1403
	"	28-30	404763	6	1404
	G2-128	2.5-4.5	405040	6	1405
	"	7.5-9.5	405043	6	1406
	"	12.5-14.5	405046	6	1407
	"	17.5-19.5	405049	6	1408
	G2-129	5-7.5	404729	6	1409
	"	10-12.5	404732	6	1410
	"	24-26.5	404740	6	1411
	G2-130	5-7	405075	6	1412
	"	10-12	405077	6	1413
	"	15-17	405080	6	1414
	"	20-22	405083	6	1415
	"	30-32	405088	6	1416
	G2-131	7.5-9.5	404704	6	1417
	"	17.5-19.5	404709	6	1418
	"	27.5-29.5	404713	6	1419
	"	45-47	404719	6	1420
	G2-132	5-7	405102	6	1421
	"	10-12	405105	6	1422
	"	15-17	405108	6	1423
	"	20-22	405111	6	1424
	G2-133	2.5-4.5	405053	6	1425
	"	7.5-9.5	405055	6	1426

Test	Boring No.	Depth (ft)	Sample No.	Vol.	Page No.
	"	15-17	405059	6	1427
	"	17.5-19.5	405061	6	1428
	"	25-27	405065	6	1429
	G2-134	12-14	405140	6	1430
California Bearing Ratio (D1883)	G2-SB-15	1-2	404649	6	1432
	"	1-2	404649	6	1436
	G2-SB-16	1-2	404650	6	1439
	G2-SB-17	1-2	405366	6	1443
	"	"	405366	6	1447
Large Scale Interface Direct Shear Test Report of a Three-Test Series using selected geosynthetics and Soils from FEMP					1450
Aggregate Tests Specific Gravity and Absorbtion of Coarse Aggregate (C127-88)			405377	6	1470
			405379	6	1470
			405381	6	1470
			405382	6	1470
			405383	6	1470
Soundness of Aggregates (C88-90)			405384	6	1470
			405385	6	1470
			405386	6	1470
Resistance R-Value and Expansion Pressure of Compacted Soils (D2844-89)			404645	6	1470
			404646	6	1470
			404647	6	1470
			404648	6	1470
Soundness of Riprap (D5240-92)			405378	6	1470
			405380	6	1470

Test	Boring No.	Depth (ft)	Sample No.	Vol.	Page No.
Chemical Analysis - Chloride and Sulfate	G2-SB-1	4.5-5	404609	6	1476
	G2-SB-2	4.5-5	404604	6	1476
	G2-SB-4	4.5-5	404616	6	1476
	G2-SB-5	4.5-5	404628	6	1476
	G2-SB-7	4.5-5	404633	6	1476
	G2-SB-8	4.5-5	404622	6	1476
	G2-SB-10	4.5-5	404638	6	1477
	G2-SB-11	4.5-5	404643	6	1477

HYDROMETER ANALYSIS

With Mechanical Grain Size Analysis
ASTM D 422

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13G

BORING NO.	G2-120	SAMPLED	5-2-95
DEPTH	5.0-7.0'	DATE TESTED	5-26-95 REW
SAMPLE NO.	405124	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC	Yes	
NATURAL	No	
Wt. Wet Soil & Pan	(g)	55.50
Wt. Dry Soil & Pan	(g)	54.92
Wt. Lost Moisture	(g)	0.58
Wt. of Pan Only	(g)	3.67
Wt. of Dry Soil	(g)	51.25
Moisture Content	%	1.1
Wt. Hydrom. Sample Wet	(g)	55.46
Wt. Hydrom. Sample Dry	(g)	54.84

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	676.92
Weight of + #10 Before Washing (g)	93.67
Weight of + #10 After Washing (g)	84.93
Weight of - #10 Wet (g)	583.25
Weight of - #10 Dry (g)	585.37
Wt. Total Sample Dry (g)	670.30
Calc. Wt. "W" (g)	62.79
Calc. Mass + #10	7.96

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	0.00	0.00	0.00	0.0	100.0
3/8"	0.00	27.99	27.99	27.99	4.2	95.8
#4	0.00	27.71	27.71	55.70	8.3	91.7
#10	0.00	29.23	29.23	84.93	12.7	87.3
#20	1.58	4.67	3.09	3.09	17.6	82.4
#40	1.56	4.04	2.48	5.57	21.5	78.5
#60	1.57	3.72	2.15	7.72	25.0	75.0
#100	1.58	3.99	2.41	10.13	28.8	71.2
#200	1.58	4.40	2.82	12.95	33.3	66.7

Data entered by: NAA Date: 5-30-95
Data checked by: SL Date: 5-30-95
FileName: SAH0124

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13G

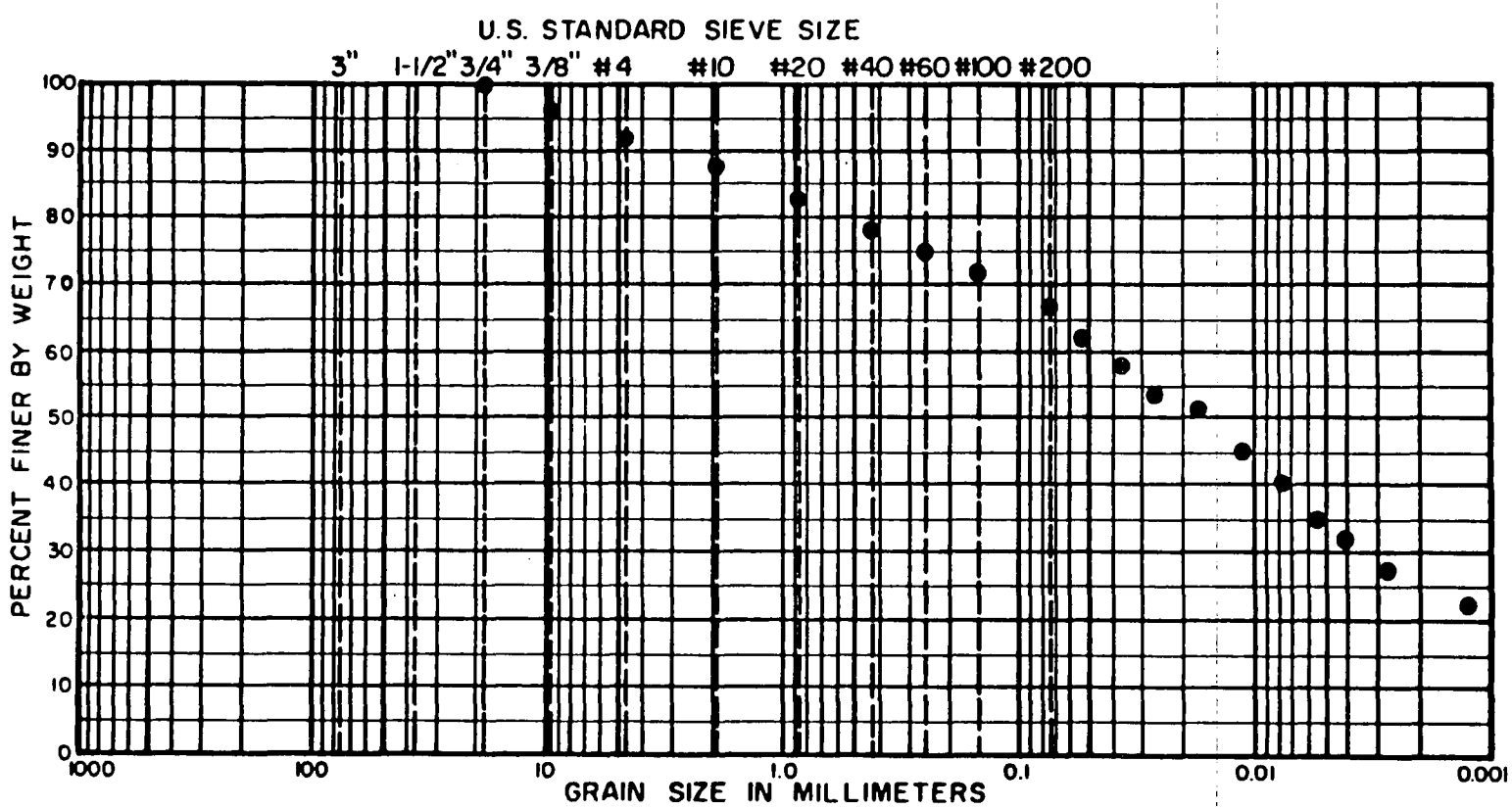
BORING NO.	G2-120	SAMPLED	5-2-95
DEPTH	5.0-7.0'	DATE TESTED	5-26-95 REW
SAMPLE NO.	405124	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	24.8
Sp. Gr. of Soil	2.71	Temp. Coef. K	0.01252
Value of "alpha"	0.99	Wt. Dry Sample "W"	62.794
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	4.5		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	45.00	39.50	62.1	62.1	8.91	0.0528
1.0	42.50	37.00	58.2	58.2	9.32	0.0382
2.0	40.00	34.50	54.3	54.3	9.73	0.0276
5.0	38.00	32.50	51.1	51.1	10.06	0.0178
15.0	34.00	28.50	44.8	44.8	10.71	0.0106
30.0	31.00	25.50	40.1	40.1	11.21	0.0077
60.0	28.00	22.50	35.4	35.4	11.70	0.0055
120.0	25.50	20.00	31.5	31.5	12.11	0.0040
250.0	23.00	17.50	27.5	27.5	12.52	0.0028
1440.0	19.75	14.25	22.4	22.4	13.05	0.0012

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

LOCATION	DEPTH	CLASSIFICATION
62-120	5.0-7.0'	

405-124

ADVANCED TERRA TESTING

239

000340

474

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13G

BORING NO.	G2-121	SAMPLED	4-27-95
DEPTH	10.0-11.7'	DATE TESTED	6-5-95 REW
SAMPLE NO.	404812	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC	Yes	
NATURAL	No	
Wt. Wet Soil & Pan	(g)	55.49
Wt. Dry Soil & Pan	(g)	54.84
Wt. Lost Moisture	(g)	0.65
Wt. of Pan Only	(g)	3.82
Wt. of Dry Soil	(g)	51.02
Moisture Content	%	1.3
Wt. Hydrom. Sample Wet	(g)	58.68
Wt. Hydrom. Sample Dry	(g)	57.94

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	354.16
Weight of + #10 Before Washing (g)	39.45
Weight of + #10 After Washing (g)	37.09
Weight of - #10 Wet (g)	314.71
Weight of - #10 Dry (g)	313.08
Wt. Total Sample Dry (g)	350.17
Calc. Wt. "W" (g)	64.80
Calc. Mass + #10	6.86

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	0.00	0.00	0.00	0.0	100.0
3/8"	0.00	8.53	8.53	8.53	2.4	97.6
#4	0.00	12.69	12.69	21.22	6.1	93.9
#10	0.00	15.87	15.87	37.09	10.6	89.4
#20	1.57	5.14	3.57	3.57	16.1	83.9
#40	1.59	4.63	3.04	6.61	20.8	79.2
#60	1.58	4.06	2.48	9.09	24.6	75.4
#100	1.47	4.20	2.73	11.82	28.8	71.2
#200	1.56	4.90	3.34	15.16	34.0	66.0

Data entered by: NAA Date: 6-12-95
Data checked by: WEB Date: 6-12-95
FileName: SAH0812

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

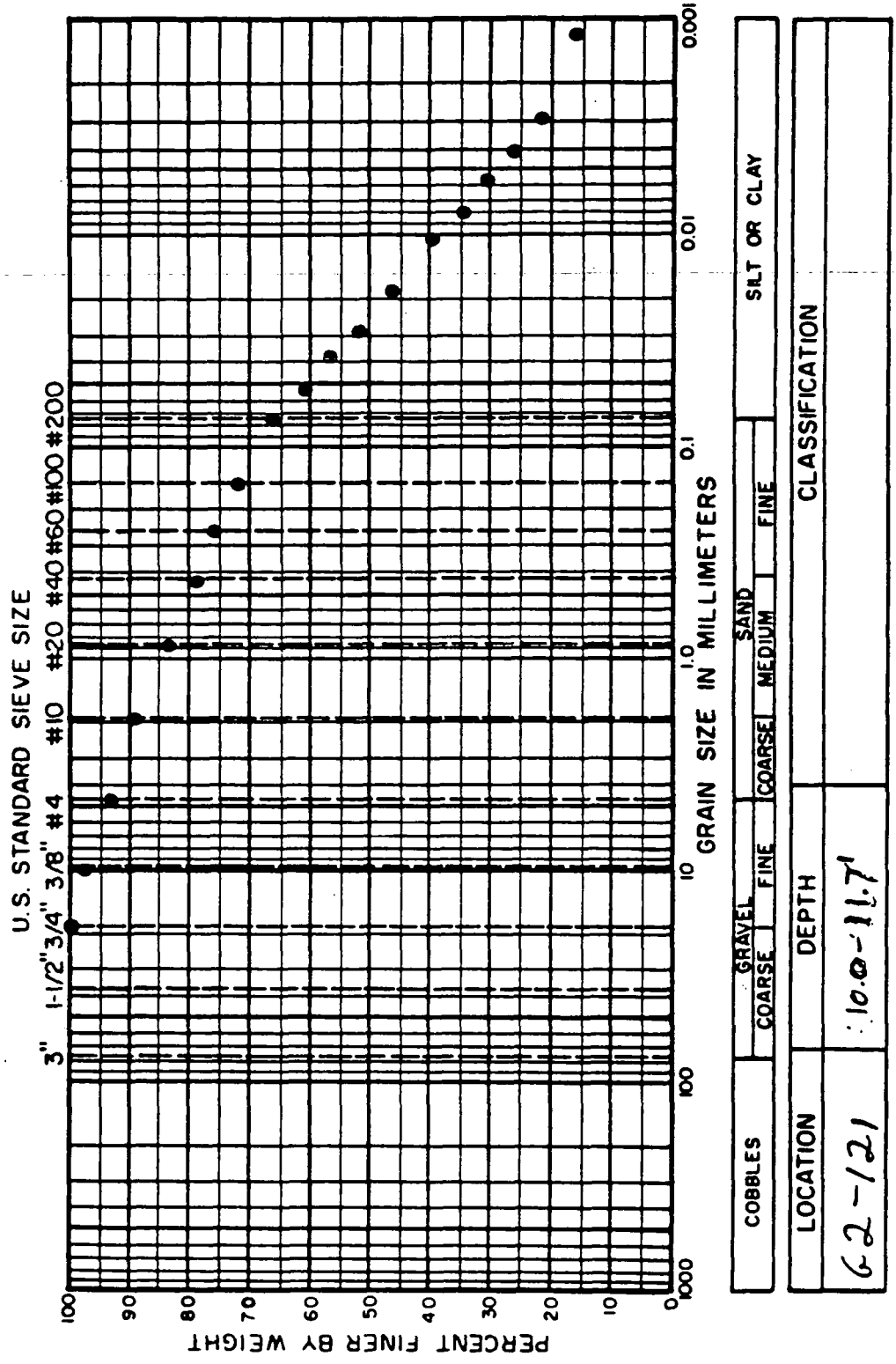
CLIENT SAIC/Parsons PO 140 JOB NO. 2059-13G

BORING NO.	G2-121	SAMPLED	4-27-95
DEPTH	10.0-11.7'	DATE TESTED	6-5-95 REW
SAMPLE NO.	404812	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	24.1
Sp. Gr. of Soil	2.74	Temp. Coef. K	0.01267
Value of "alpha"	0.98	Wt. Dry Sample "W"	64.801
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	5.0		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	46.00	40.00	60.6	60.6	8.75	0.0530
1.0	43.50	37.50	56.8	56.8	9.16	0.0383
2.0	40.00	34.00	51.5	51.5	9.73	0.0279
5.0	36.50	30.50	46.2	46.2	10.30	0.0182
15.0	32.00	26.00	39.4	39.4	11.04	0.0109
30.0	28.75	22.75	34.5	34.5	11.58	0.0079
60.0	26.00	20.00	30.3	30.3	12.03	0.0057
120.0	23.00	17.00	25.8	25.8	12.52	0.0041
250.0	20.00	14.00	21.2	21.2	13.01	0.0029
1448.0	16.50	10.50	15.9	15.9	13.58	0.0012

Grain Diameter = K*(SQRT(L/T))



404812

ADVANCED TERRA TESTING

MECHANICAL ANALYSIS - SIEVE TEST DATA

ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13G

BORING NO.	G2-121	SAMPLED	4-27-95
DEPTH	12.5-14.5'	DATE TESTED	5-30-95 REW
SAMPLE NO.	404814	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC	Yes	
NATURAL	No	
Wt. Wet Soil & Pan	(g)	65.07
Wt. Dry Soil & Pan	(g)	64.56
Wt. Lost Moisture	(g)	0.51
Wt. of Pan Only	(g)	3.80
Wt. of Dry Soil	(g)	60.76
Moisture Content	%	0.8
Wt. Hydrom. Sample Wet	(g)	57.09
Wt. Hydrom. Sample Dry	(g)	56.62

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	923.83
Weight of + #10 Before Washing (g)	180.04
Weight of + #10 After Washing (g)	168.87
Weight of - #10 Wet (g)	743.79
Weight of - #10 Dry (g)	748.67
Wt. Total Sample Dry (g)	917.54
Calc. Wt. "W" (g)	69.39
Calc. Mass + #10	12.77

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	21.62	21.62	21.62	2.4	97.6
3/8"	0.00	55.47	55.47	77.09	8.4	91.6
#4	0.00	43.46	43.46	120.55	13.1	86.9
#10	0.00	48.32	48.32	168.87	18.4	81.6
#20	1.58	4.58	3.00	3.00	22.7	77.3
#40	1.58	4.03	2.45	5.45	26.3	73.7
#60	1.57	4.00	2.43	7.88	29.8	70.2
#100	1.58	4.30	2.72	10.60	33.7	66.3
#200	1.59	5.15	3.56	14.16	38.8	61.2

Data entered by: NAA Date: 6-7-95
Data checked by: DSR Date: 6-12-95
FileName:SAH0814

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13G

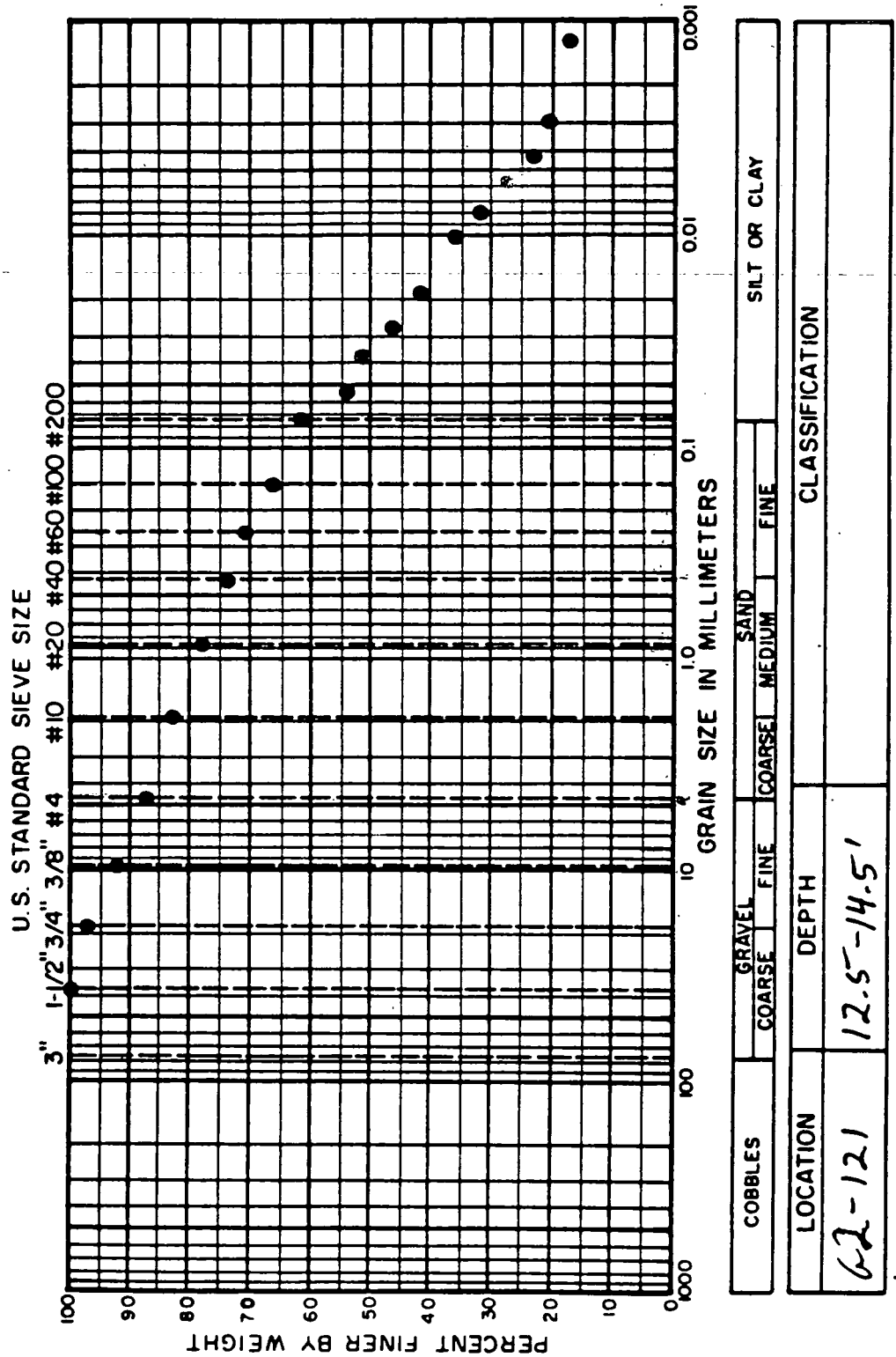
BORING NO.	G2-121	SAMPLED	4-27-95
DEPTH	12.5-14.5'	DATE TESTED	5-30-95 REW
SAMPLE NO.	404814	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	23.4
Sp. Gr. of Soil	2.77	Temp. Coef. K	0.01266
Value of "alpha"	0.98	Wt. Dry Sample "W"	69.390
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	4.5		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	44.00	38.50	54.2	54.2	9.07	0.0539
1.0	42.00	36.50	51.3	51.3	9.40	0.0388
2.0	39.00	33.50	47.1	47.1	9.89	0.0282
5.0	35.00	29.50	41.5	41.5	10.55	0.0184
15.0	31.00	25.50	35.9	35.9	11.21	0.0109
30.0	28.00	22.50	31.6	31.6	11.70	0.0079
60.0	25.00	19.50	27.4	27.4	12.19	0.0057
120.0	22.00	16.50	23.2	23.2	12.68	0.0041
250.0	20.00	14.50	20.4	20.4	13.01	0.0029
1301.0	18.00	12.50	17.6	17.6	13.34	0.0013

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



404814

ADVANCED TERRA TESTING

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13G

BORING NO.	G2-121	SAMPLED	4-27-95
DEPTH	17.5-19.5'	DATE TESTED	5-26-95 REW
SAMPLE NO.	404817	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC Yes

NATURAL No

Wt. Wet Soil & Pan	(g)	61.32
Wt. Dry Soil & Pan	(g)	60.81
Wt. Lost Moisture	(g)	0.51
Wt. of Pan Only	(g)	3.70
Wt. of Dry Soil	(g)	57.11
Moisture Content	%	0.9

Wt. Hydrom. Sample Wet (g)	55.83
Wt. Hydrom. Sample Dry (g)	55.33

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	1973.97
Weight of + #10 Before Washing (g)	387.20
Weight of + #10 After Washing (g)	351.38
Weight of - #10 Wet (g)	1586.77
Weight of - #10 Dry (g)	1608.23
Wt. Total Sample Dry (g)	1959.61
Calc. Wt. "W" (g)	67.42
Calc. Mass + #10	12.09

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	121.98	121.98	121.98	6.2	93.8
3/8"	0.00	81.74	81.74	203.72	10.4	89.6
#4	0.00	69.16	69.16	272.88	13.9	86.1
#10	0.00	78.50	78.50	351.38	17.9	82.1
#20	1.58	4.86	3.28	3.28	22.8	77.2
#40	1.31	3.90	2.59	5.87	26.6	73.4
#60	1.31	3.82	2.51	8.38	30.4	69.6
#100	1.58	4.45	2.87	11.25	34.6	65.4
#200	1.57	5.18	3.61	14.86	40.0	60.0

Data entered by: NAA Date: 6-6-95
Data checked by: DSR Date: 6-7-95
FileName:SAH0817

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

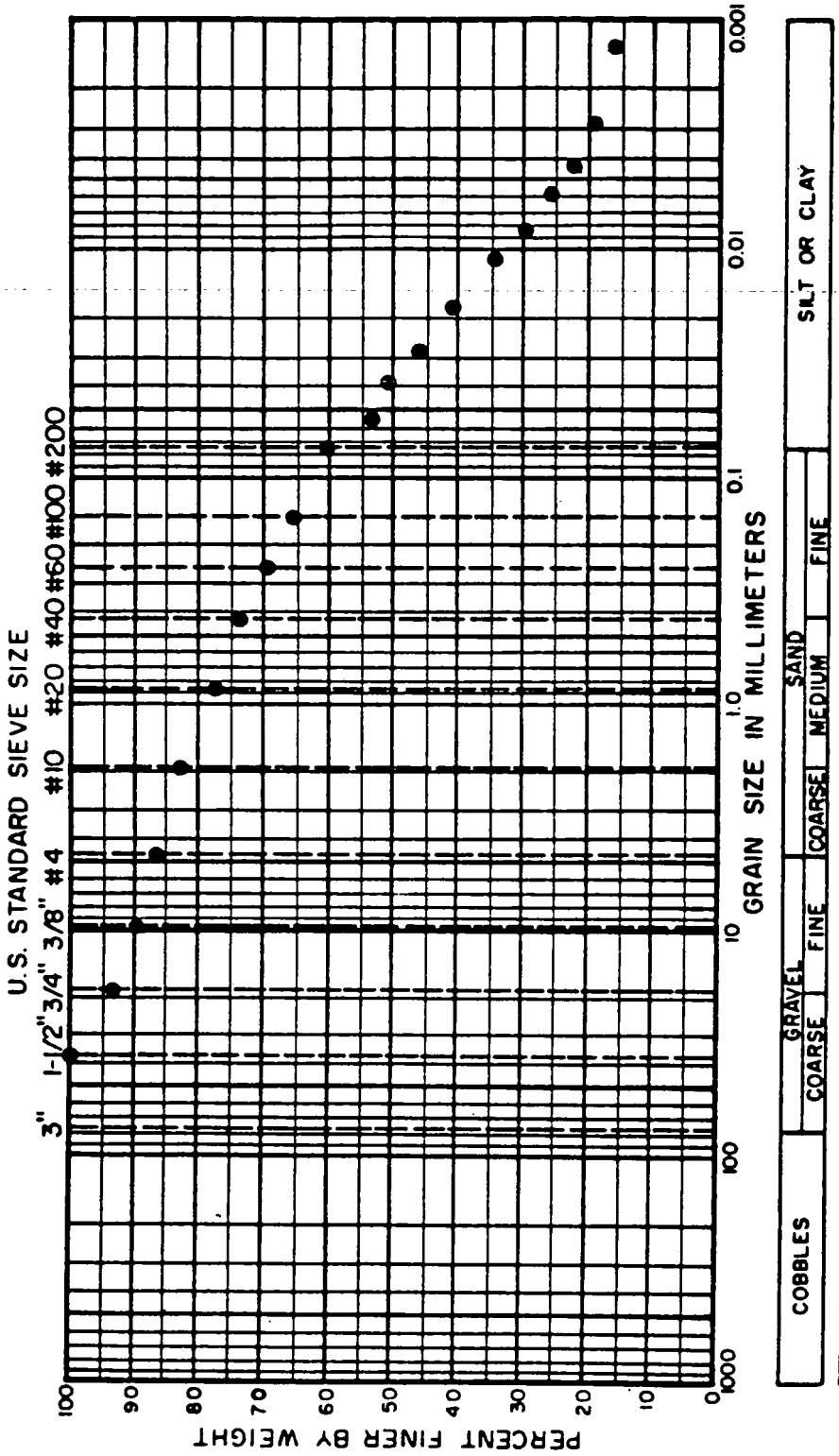
CLIENT SAIC/Parsons PO 140 JOB NO. 2059-13G

BORING NO.	G2-121	SAMPLED	4-27-95
DEPTH	17.5-19.5'	DATE TESTED	5-26-95 REW
SAMPLE NO.	404817	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	23.6
Sp. Gr. of Soil	2.74	Temp. Coef. K	0.01274
Value of "alpha"	0.98	Wt. Dry Sample "W"	67.420
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	4.5		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	42.00	36.50	53.2	53.2	9.40	0.0552
1.0	40.00	34.50	50.3	50.3	9.73	0.0397
2.0	37.00	31.50	45.9	45.9	10.22	0.0288
5.0	33.00	27.50	40.1	40.1	10.88	0.0188
15.0	29.00	23.50	34.2	34.2	11.53	0.0112
30.0	25.50	20.00	29.1	29.1	12.11	0.0081
60.0	23.00	17.50	25.5	25.5	12.52	0.0058
120.0	21.00	15.50	22.6	22.6	12.85	0.0042
250.0	19.00	13.50	19.7	19.7	13.17	0.0029
1252.0	16.50	11.00	16.0	16.0	13.58	0.0013

Grain Diameter = K*(SQRT(L/T))



LOCATION	DEPTH	CLASSIFICATION
G2-121	17.5-19.5'	

404.817

ADVANCED TERRA TESTING

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13G

BORING NO.	G2-122	SAMPLED	5-1-95
DEPTH	5.0-7.0'	DATE TESTED	5-26-95 REW
SAMPLE NO.	404821	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC	Yes	
NATURAL	No	
Wt. Wet Soil & Pan	(g)	73.10
Wt. Dry Soil & Pan	(g)	72.30
Wt. Lost Moisture	(g)	0.80
Wt. of Pan Only	(g)	3.82
Wt. of Dry Soil	(g)	68.48
Moisture Content	%	1.2
Wt. Hydrom. Sample Wet	(g)	57.80
Wt. Hydrom. Sample Dry	(g)	57.13

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	57.80
Weight of + #10 Before Washing (g)	0.00
Weight of + #10 After Washing (g)	0.00
Weight of - #10 Wet (g)	57.80
Weight of - #10 Dry (g)	57.13
Wt. Total Sample Dry (g)	57.13
Calc. Wt. "W" (g)	57.13
Calc. Mass + #10	0.00

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	0.00	0.00	0.00	0.0	100.0
3/8"	0.00	0.00	0.00	0.00	0.0	100.0
#4	0.00	0.00	0.00	0.00	0.0	100.0
#10	0.00	0.00	0.00	0.00	0.0	100.0
#20	1.58	1.79	0.21	0.21	0.4	99.6
#40	1.58	1.80	0.22	0.43	0.8	99.2
#60	1.57	1.85	0.28	0.71	1.2	98.8
#100	1.58	1.94	0.36	1.07	1.9	98.1
#200	1.32	2.21	0.89	1.96	3.4	96.6

Data entered by: NAA Date: 5-30-95
Data checked by: SR Date: 5-30-95
FileName:SAH0482

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13G

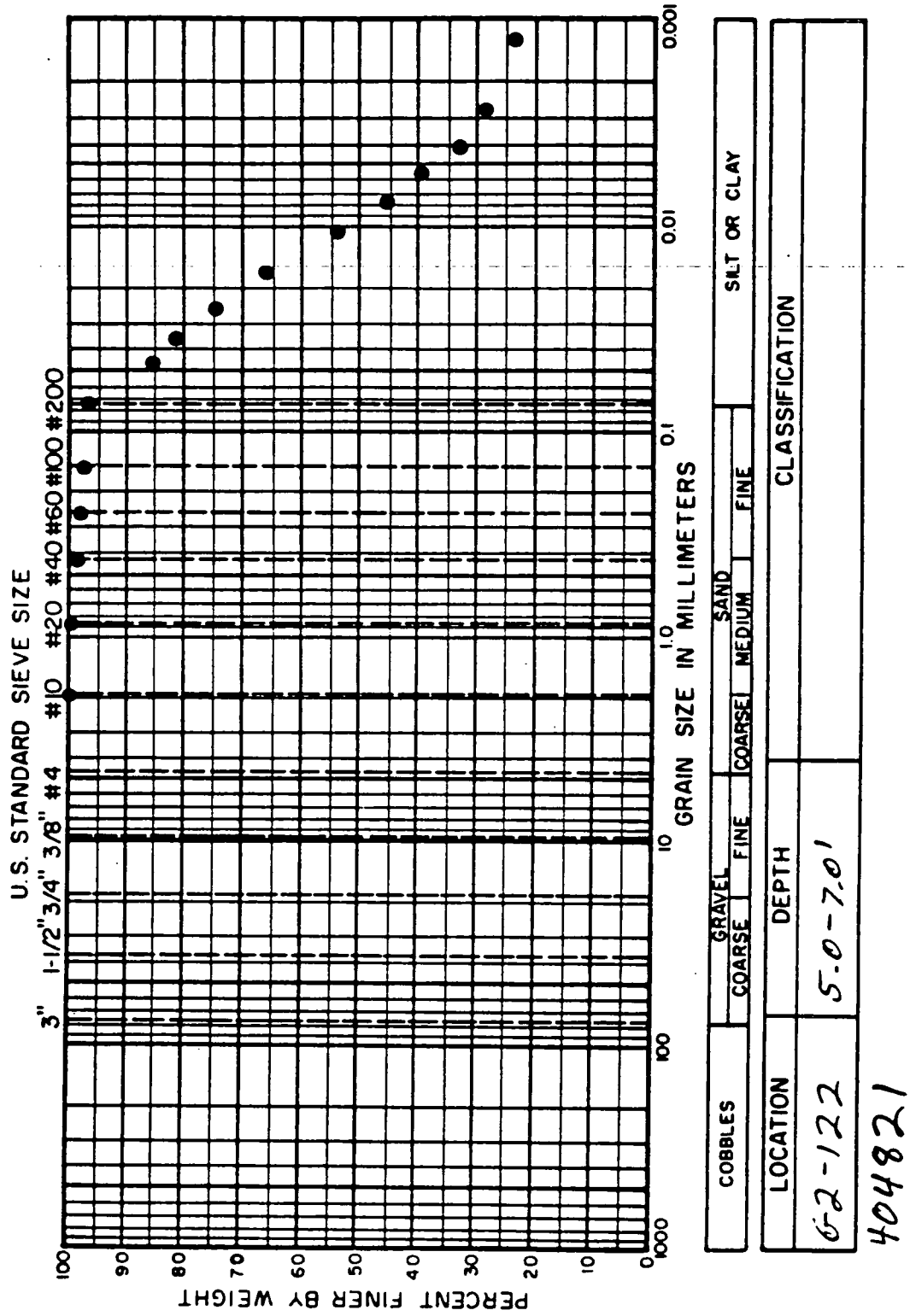
BORING NO.	G2-122	SAMPLED	5-1-95
DEPTH	5.0-7.0'	DATE TESTED	5-26-95 REW
SAMPLE NO.	404821	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	24.8
Sp. Gr. of Soil	2.74	Temp. Coef. K	0.01259
Value of "alpha"	0.98	Wt. Dry Sample "W"	57.131
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	4.5		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Hydrometer Reading Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	55.00	49.50	85.1	85.1	7.27	0.0480
1.0	53.00	47.50	81.6	81.6	7.60	0.0347
2.0	49.00	43.50	74.8	74.8	8.25	0.0256
5.0	44.00	38.50	66.2	66.2	9.07	0.0170
15.0	37.00	31.50	54.1	54.1	10.22	0.0104
30.0	32.00	26.50	45.6	45.6	11.04	0.0076
60.0	28.50	23.00	39.5	39.5	11.62	0.0055
120.0	25.00	19.50	33.5	33.5	12.19	0.0040
250.0	22.25	16.75	28.8	28.8	12.64	0.0028
1445.0	19.00	13.50	23.2	23.2	13.17	0.0012

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



404821

ADVANCED TERRA TESTING

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13G

BORING NO.	G2-122	SAMPLED	5-1-95 JM
DEPTH	10.0-12.0'	DATE TESTED	5-24-95 REW
SAMPLE NO.	404824	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC	Yes	
NATURAL	No	
Wt. Wet Soil & Pan	(g)	49.82
Wt. Dry Soil & Pan	(g)	49.42
Wt. Lost Moisture	(g)	0.40
Wt. of Pan Only	(g)	8.36
Wt. of Dry Soil	(g)	41.06
Moisture Content	%	1.0
Wt. Hydrom. Sample Wet	(g)	55.22
Wt. Hydrom. Sample Dry	(g)	54.69

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	366.91
Weight of + #10 Before Washing (g)	60.14
Weight of + #10 After Washing (g)	47.54
Weight of - #10 Wet (g)	306.77
Weight of - #10 Dry (g)	316.29
Wt. Total Sample Dry (g)	363.83
Calc. Wt. "W" (g)	62.91
Calc. Mass + #10	8.22

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	0.00	0.00	0.00	0.0	100.0
3/8"	0.00	11.46	11.46	11.46	3.1	96.9
#4	0.00	15.04	15.04	26.50	7.3	92.7
#10	0.00	21.04	21.04	47.54	13.1	86.9
#20	1.33	4.61	3.28	3.28	18.3	81.7
#40	1.57	3.58	2.01	5.29	21.5	78.5
#60	1.58	3.12	1.54	6.83	23.9	76.1
#100	1.57	3.32	1.75	8.58	26.7	73.3
#200	1.57	3.67	2.10	10.68	30.0	70.0

Data entered by: NAA Date: 5-30-95
Data checked by: SR Date: 5-30-95
FileName:SAH0824

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

CLIENT SAIC/Parsons PO 140 JOB NO. 2059-13G

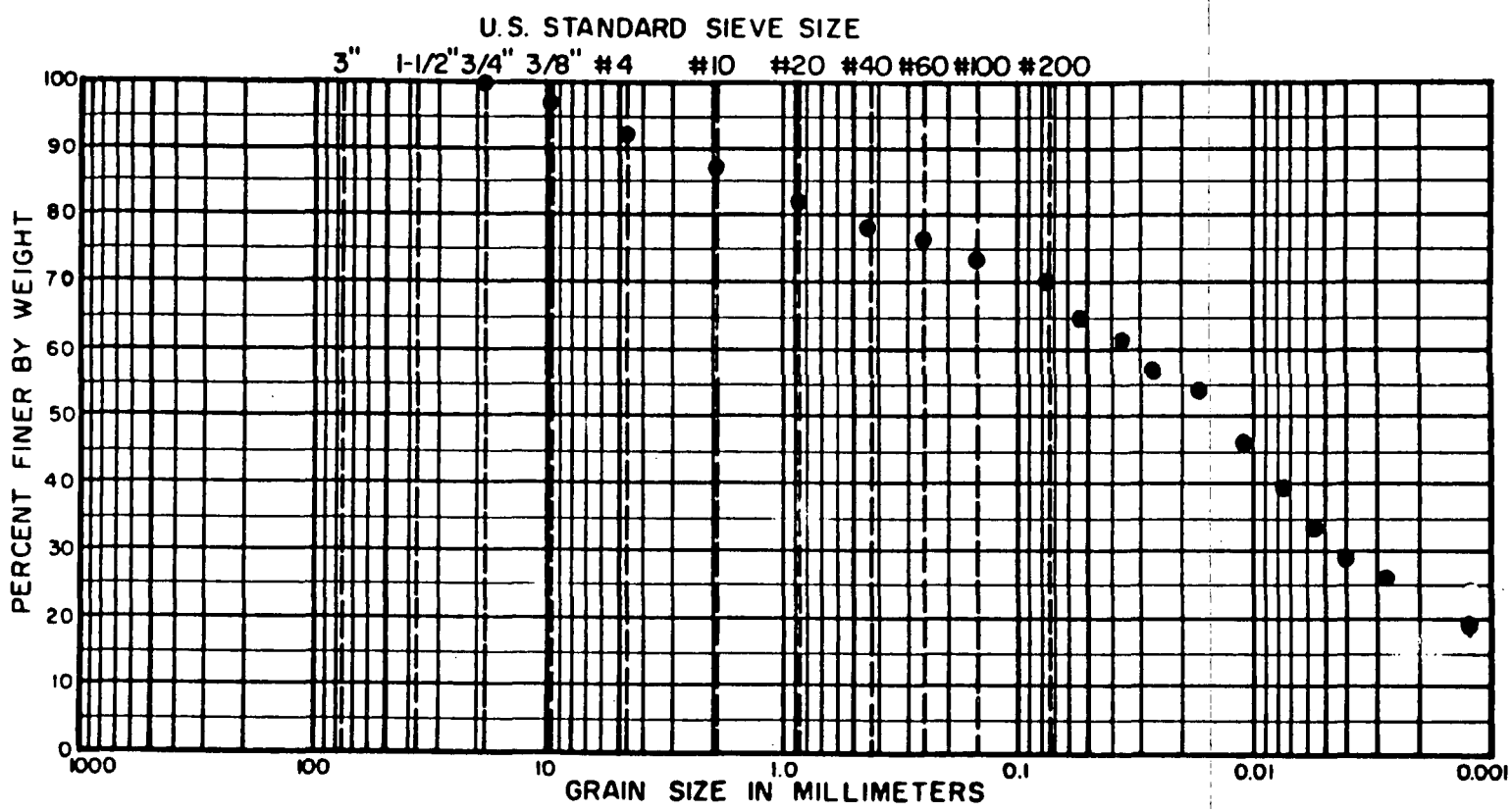
BORING NO.	G2-122	SAMPLED	5-1-95 JM
DEPTH	10.0-12.0'	DATE TESTED	5-24-95 REW
SAMPLE NO.	404824	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	24.8
Sp. Gr. of Soil	2.73	Temp. Coef. K	0.01259
Value of "alpha"	0.98	Wt. Dry Sample "W"	62.912
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	4.5		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	47.00	41.50	64.9	64.9	8.58	0.0522
1.0	45.00	39.50	61.8	61.8	8.91	0.0376
2.0	42.00	36.50	57.1	57.1	9.40	0.0273
5.0	40.00	34.50	54.0	54.0	9.73	0.0176
15.0	35.00	29.50	46.1	46.1	10.55	0.0106
30.0	31.00	25.50	39.9	39.9	11.21	0.0077
60.0	27.00	21.50	33.6	33.6	11.86	0.0056
120.0	24.00	18.50	28.9	28.9	12.35	0.0040
250.0	22.00	16.50	25.8	25.8	12.68	0.0028
1485.0	18.00	12.50	19.6	19.6	13.34	0.0012

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

LOCATION	DEPTH	CLASSIFICATION
G2-122	10.0-12.0'	

404824

ADVANCED TERRA TESTING

254

000325

474

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13G

BORING NO.	G2-122	SAMPLED	5-1-95 JM
DEPTH	15.0-17.0'	DATE TESTED	5-24-95 REW
SAMPLE NO.	404827	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC	Yes	
NATURAL	No	
Wt. Wet Soil & Pan	(g)	91.51
Wt. Dry Soil & Pan	(g)	90.83
Wt. Lost Moisture	(g)	0.68
Wt. of Pan Only	(g)	8.35
Wt. of Dry Soil	(g)	82.48
Moisture Content	%	0.8
Wt. Hydrom. Sample Wet	(g)	55.10
Wt. Hydrom. Sample Dry	(g)	54.65

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	558.84
Weight of + #10 Before Washing (g)	53.19
Weight of + #10 After Washing (g)	44.38
Weight of - #10 Wet (g)	505.65
Weight of - #10 Dry (g)	510.25
Wt. Total Sample Dry (g)	554.63
Calc. Wt. "W" (g)	59.41
Calc. Mass + #10	4.75

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	0.00	0.00	0.00	0.0	100.0
3/8"	0.00	5.64	5.64	5.64	1.0	99.0
#4	0.00	19.10	19.10	24.74	4.5	95.5
#10	0.00	19.64	19.64	44.38	8.0	92.0
#20	1.59	4.58	2.99	2.99	13.0	87.0
#40	1.58	4.41	2.83	5.82	17.8	82.2
#60	1.58	3.56	1.98	7.80	21.1	78.9
#100	1.57	3.51	1.94	9.74	24.4	75.6
#200	1.57	4.15	2.58	12.32	28.7	71.3

Data entered by: NAA Date: 6-6-95
Data checked by: DSR Date: 6-7-95
FileName:SAH0827

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

CLIENT SAIC/Parsons PO 140 JOB NO. 2059-13G

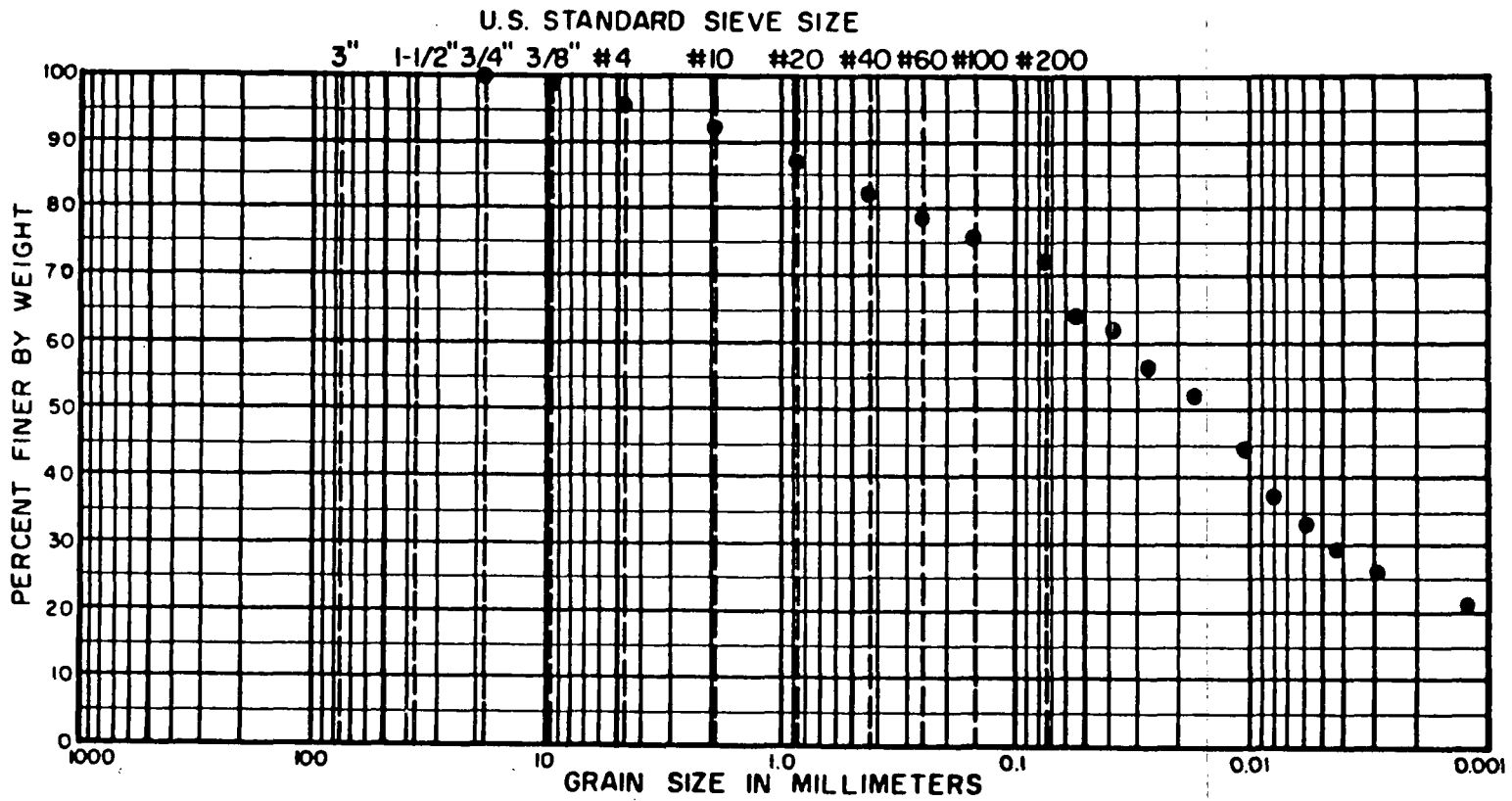
BORING NO.	G2-122	SAMPLED	5-1-95 JM
DEPTH	15.0-17.0'	DATE TESTED	5-24-95 REW
SAMPLE NO.	404827	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	25.0
Sp. Gr. of Soil	2.70	Temp. Coef. K	0.01267
Value of "alpha"	0.99	Wt. Dry Sample "W"	59.407
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	4.5		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	44.00	38.50	64.2	64.2	9.07	0.0540
1.0	42.50	37.00	61.7	61.7	9.32	0.0387
2.0	39.50	34.00	56.7	56.7	9.81	0.0281
5.0	37.00	31.50	52.5	52.5	10.22	0.0181
15.0	32.00	26.50	44.2	44.2	11.04	0.0109
30.0	28.00	22.50	37.5	37.5	11.70	0.0079
60.0	25.50	20.00	33.3	33.3	12.11	0.0057
120.0	23.00	17.50	29.2	29.2	12.52	0.0041
250.0	21.00	15.50	25.8	25.8	12.85	0.0029
1480.0	18.00	12.50	20.8	20.8	13.34	0.0012

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

LOCATION	DEPTH	CLASSIFICATION
62-122	15.0-17.0'	

404827

ADVANCED TERRA TESTING

257

000328

474

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13D

BORING NO.	G2-123	SAMPLED	4-26-95
DEPTH	7.5-9.5'	DATE TESTED	5-25-95 REW
SAMPLE NO.	404797	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC	Yes	
NATURAL	No	
Wt. Wet Soil & Pan	(g)	62.09
Wt. Dry Soil & Pan	(g)	61.44
Wt. Lost Moisture	(g)	0.65
Wt. of Pan Only	(g)	3.72
Wt. of Dry Soil	(g)	57.72
Moisture Content	%	1.1
Wt. Hydrom. Sample Wet	(g)	55.48
Wt. Hydrom. Sample Dry	(g)	54.86

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	579.79
Weight of + #10 Before Washing (g)	75.99
Weight of + #10 After Washing (g)	67.41
Weight of - #10 Wet (g)	503.80
Weight of - #10 Dry (g)	506.67
Wt. Total Sample Dry (g)	574.08
Calc. Wt. "W" (g)	62.16
Calc. Mass + #10	7.30

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	0.00	0.00	0.00	0.0	100.0
3/8"	0.00	15.74	15.74	15.74	2.7	97.3
#4	0.00	21.69	21.69	37.43	6.5	93.5
#10	0.00	29.98	29.98	67.41	11.7	88.3
#20	1.58	4.57	2.99	2.99	16.6	83.4
#40	1.57	3.99	2.42	5.41	20.4	79.6
#60	1.57	3.76	2.19	7.60	24.0	76.0
#100	1.57	4.20	2.63	10.23	28.2	71.8
#200	1.57	4.95	3.38	13.61	33.6	66.4

NOTE: 1 1/2" rock was omitted from the test portion.

Data entered by: NAA Date: 5-30-95
Data checked by: [illegible] Date: 6.5.95
FileName:SAH0797

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

CLIENT SAIC/Parsons PO 140 JOB NO. 2059-13D

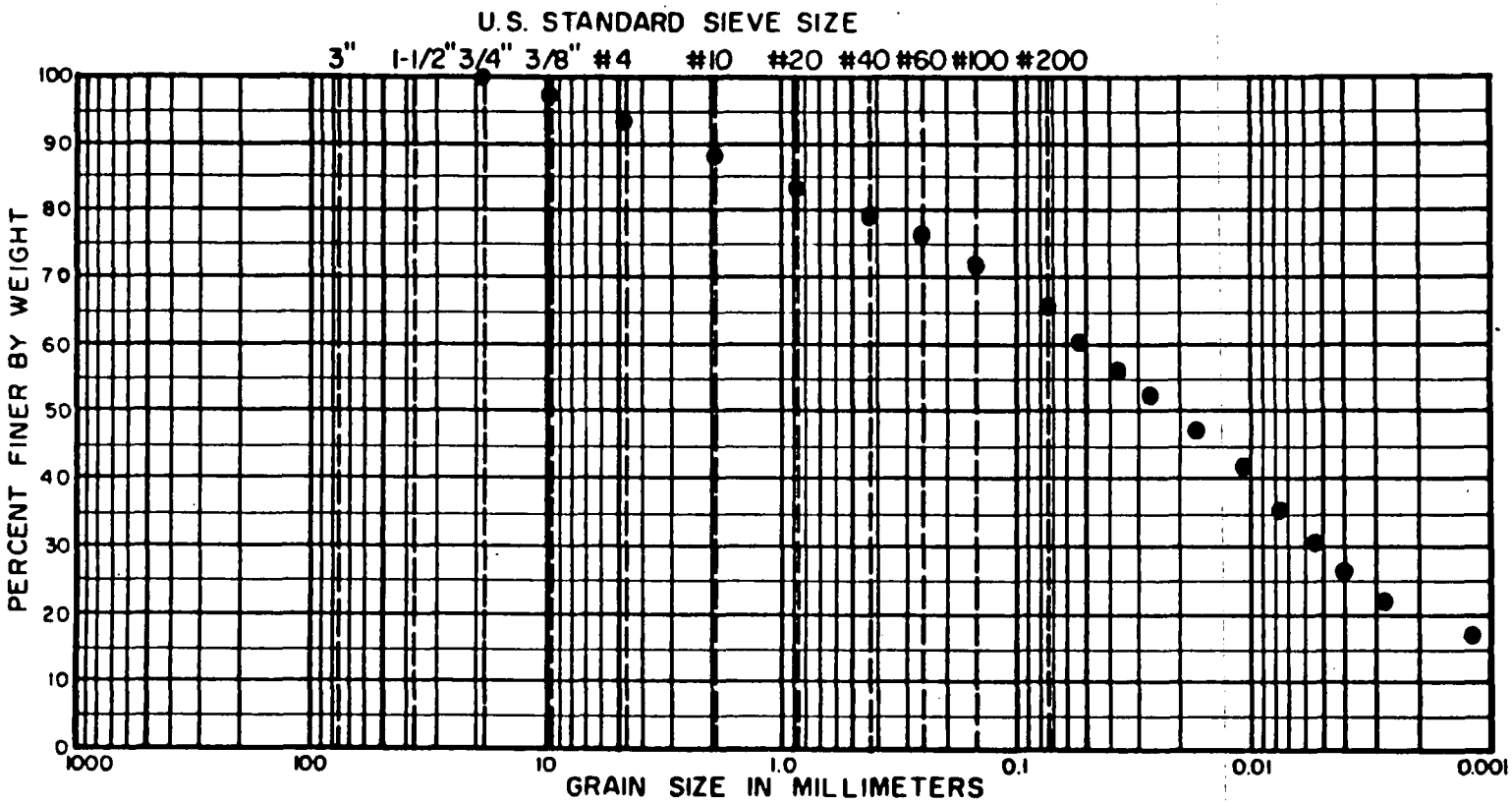
BORING NO.	G2-123	SAMPLED	4-26-95
DEPTH	7.5-9.5'	DATE TESTED	5-25-95 REW
SAMPLE NO.	404797	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	24.8
Sp. Gr. of Soil	2.80	Temp. Coef. K	0.01235
Value of "alpha"	0.97	Wt. Dry Sample "W"	62.158
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	4.5		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	44.00	38.50	60.1	60.1	9.07	0.0526
1.0	41.50	36.00	56.2	56.2	9.48	0.0380
2.0	39.00	33.50	52.3	52.3	9.89	0.0275
5.0	36.00	30.50	47.6	47.6	10.39	0.0178
15.0	32.00	26.50	41.4	41.4	11.04	0.0106
30.0	28.00	22.50	35.1	35.1	11.70	0.0077
60.0	25.00	19.50	30.4	30.4	12.19	0.0056
120.0	22.25	16.75	26.1	26.1	12.64	0.0040
250.0	20.00	14.50	22.6	22.6	13.01	0.0028
1332.0	17.00	11.50	17.9	17.9	13.50	0.0012

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

LOCATION	DEPTH	CLASSIFICATION
G2-123	7.5-9.5'	

404797

ADVANCED TERRA TESTING

260

000331

474

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13D

BORING NO.	G2-123	SAMPLED	4-26-95
DEPTH	12.5-14.5'	DATE TESTED	5-26-95 REW
SAMPLE NO.	404800	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC Yes

NATURAL No

Wt. Wet Soil & Pan	(g)	108.83
Wt. Dry Soil & Pan	(g)	107.75
Wt. Lost Moisture	(g)	1.08
Wt. of Pan Only	(g)	8.39
Wt. of Dry Soil	(g)	99.36
Moisture Content	%	1.1

Wt. Hydrom. Sample Wet (g)	57.90
Wt. Hydrom. Sample Dry (g)	57.28

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	864.98
Weight of + #10 Before Washing (g)	126.17
Weight of + #10 After Washing (g)	105.57
Weight of - #10 Wet (g)	738.81
Weight of - #10 Dry (g)	751.24
Wt. Total Sample Dry (g)	856.81
Calc. Wt. "W" (g)	65.33
Calc. Mass + #10	8.05

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	0.00	0.00	0.00	0.0	100.0
3/8"	0.00	21.41	21.41	21.41	2.5	97.5
#4	0.00	41.41	41.41	62.82	7.3	92.7
#10	0.00	42.75	42.75	105.57	12.3	87.7
#20	1.32	4.28	2.96	2.96	16.9	83.1
#40	1.59	3.81	2.22	5.18	20.3	79.7
#60	1.58	3.52	1.94	7.12	23.2	76.8
#100	1.57	4.03	2.46	9.58	27.0	73.0
#200	1.57	4.66	3.09	12.67	31.7	68.3

Data entered by: NAA Date: 6-1-95
Data checked by: DJL Date: 6.5.95
FileName:SAH0800

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

CLIENT SAIC/Parsons PO 140 JOB NO. 2059-13D

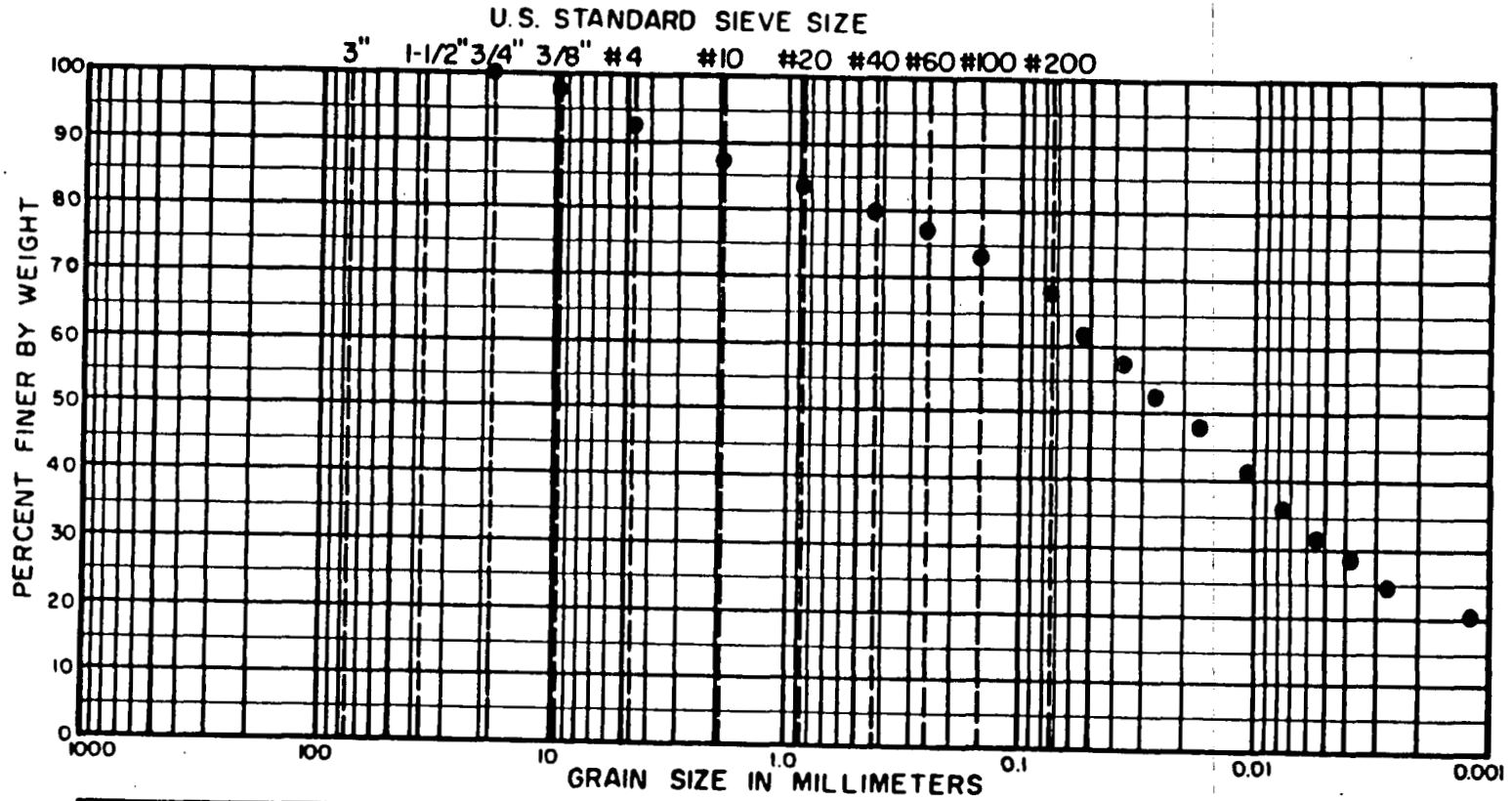
BORING NO.	G2-123	SAMPLED	4-26-95
DEPTH	12.5-14.5'	DATE TESTED	5-26-95 REW
SAMPLE NO.	404800	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	25.1
Sp. Gr. of Soil	2.79	Temp. Coef. K	0.01234
Value of "alpha"	0.97	Wt. Dry Sample "W"	65.328
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	4.5		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	47.00	41.50	61.7	61.7	8.58	0.0511
1.0	44.00	38.50	57.3	57.3	9.07	0.0372
2.0	41.00	35.50	52.8	52.8	9.57	0.0270
5.0	38.00	32.50	48.4	48.4	10.06	0.0175
15.0	33.00	27.50	40.9	40.9	10.88	0.0105
30.0	30.00	24.50	36.5	36.5	11.37	0.0076
60.0	27.00	21.50	32.0	32.0	11.86	0.0055
120.0	24.50	19.00	28.3	28.3	12.27	0.0039
250.0	22.00	16.50	24.6	24.6	12.68	0.0028
1470.0	19.00	13.50	20.1	20.1	13.17	0.0012

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

LOCATION	DEPTH	CLASSIFICATION
62-123	12.5-14.5'	

404800

ADVANCED TERRA TESTING

263

0000334

474

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13D

BORING NO.	G2-123	SAMPLED	4-26-95 MG
DEPTH	20.0-21.2'	DATE TESTED	5-26-95 REW
SAMPLE NO.	404804	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC	Yes	
NATURAL	No	
Wt. Wet Soil & Pan	(g)	59.71
Wt. Dry Soil & Pan	(g)	59.12
Wt. Lost Moisture	(g)	0.59
Wt. of Pan Only	(g)	3.55
Wt. of Dry Soil	(g)	55.57
Moisture Content	%	1.1
Wt. Hydrom. Sample Wet	(g)	55.41
Wt. Hydrom. Sample Dry	(g)	54.83

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	1699.97
Weight of + #10 Before Washing (g)	209.38
Weight of + #10 After Washing (g)	192.95
Weight of - #10 Wet (g)	1490.59
Weight of - #10 Dry (g)	1491.19
Wt. Total Sample Dry (g)	1684.14
Calc. Wt. "W" (g)	61.92
Calc. Mass + #10	7.09

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	47.12	47.12	47.12	2.8	97.2
3/8"	0.00	17.52	17.52	64.64	3.8	96.2
#4	0.00	51.08	51.08	115.72	6.9	93.1
#10	0.00	77.23	77.23	192.95	11.5	88.5
#20	1.54	4.38	2.84	2.84	16.0	84.0
#40	1.58	4.00	2.42	5.26	20.0	80.0
#60	1.59	4.00	2.41	7.67	23.8	76.2
#100	1.56	4.56	3.00	10.67	28.7	71.3
#200	1.57	5.29	3.72	14.39	34.7	65.3

Data entered by: NAA Date: 6-12-95
Data checked by: WEB Date: 6-12-95
FileName:SAH0804

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

CLIENT SAIC/Parsons PO 140 JOB NO. 2059-13D

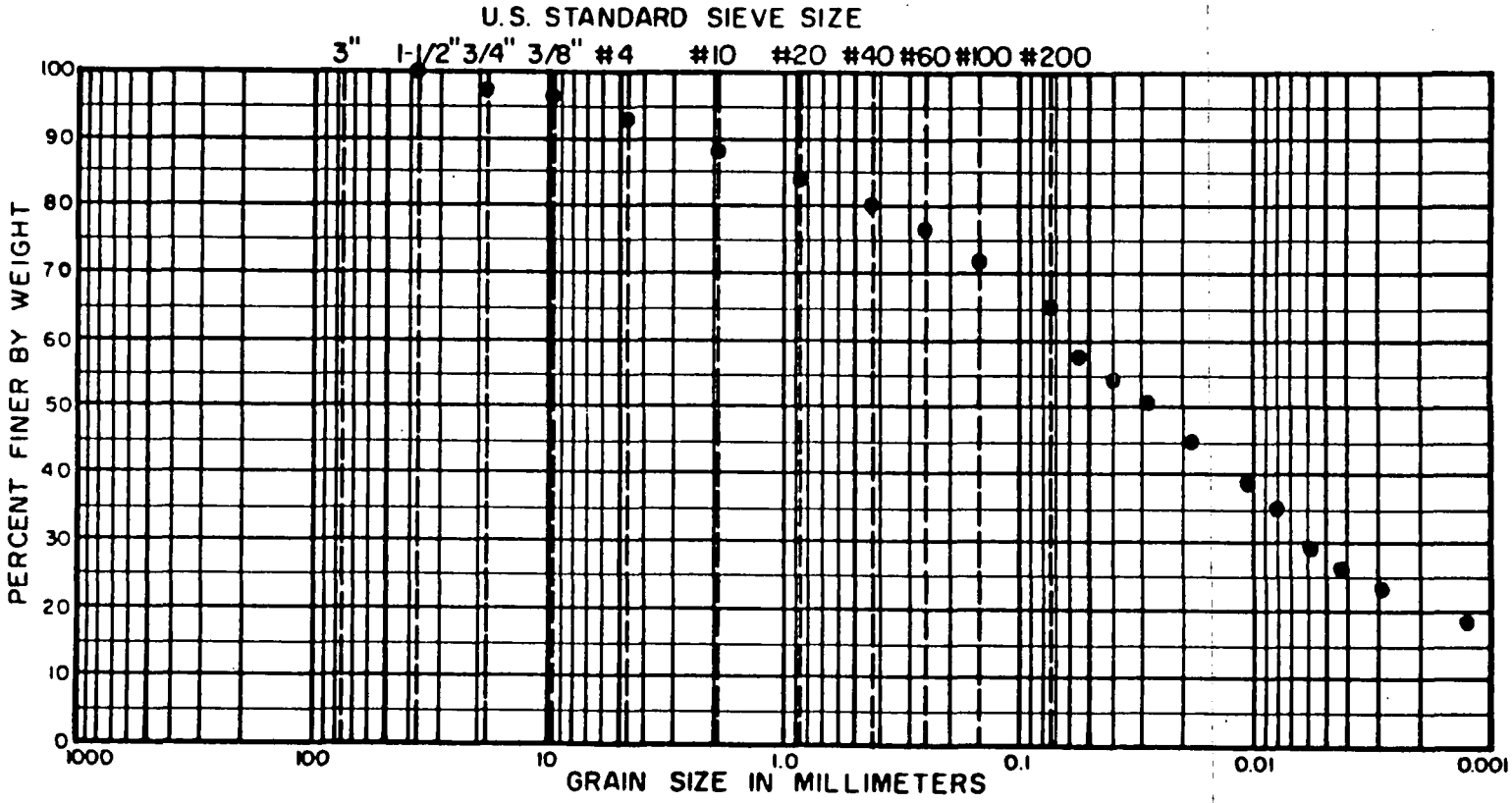
BORING NO.	G2-123	SAMPLED	4-26-95 MG
DEPTH	20.0-21.2'	DATE TESTED	5-26-95 REW
SAMPLE NO.	404804	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	23.3
Sp. Gr. of Soil	2.74	Temp. Coef. K	0.01279
Value of "alpha"	0.98	Wt. Dry Sample "W"	61.920
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	4.5		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	42.00	36.50	57.9	57.9	9.40	0.0555
1.0	40.00	34.50	54.7	54.7	9.73	0.0399
2.0	37.50	32.00	50.7	50.7	10.14	0.0288
5.0	34.00	28.50	45.2	45.2	10.71	0.0187
15.0	30.00	24.50	38.9	38.9	11.37	0.0111
30.0	27.75	22.25	35.3	35.3	11.74	0.0080
60.0	24.00	18.50	29.3	29.3	12.35	0.0058
120.0	22.00	16.50	26.2	26.2	12.68	0.0042
250.0	20.00	14.50	23.0	23.0	13.01	0.0029
1311.0	17.25	11.75	18.6	18.6	13.46	0.0013

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

LOCATION	DEPTH	CLASSIFICATION
62-123	20.0-21.2'	

404804

ADVANCED TERRA TESTING

266

000337

474

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13A

BORING NO.	G2-124	SAMPLED	4-12-95 KP, MM
DEPTH	5.0-7.0'	DATE TESTED	5-30-95 REW
SAMPLE NO.	405002	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC	Yes	
NATURAL	No	
Wt. Wet Soil & Pan	(g)	151.67
Wt. Dry Soil & Pan	(g)	145.22
Wt. Lost Moisture	(g)	6.45
Wt. of Pan Only	(g)	8.67
Wt. of Dry Soil	(g)	136.55
Moisture Content	%	4.7
Wt. Hydrom. Sample Wet	(g)	57.50
Wt. Hydrom. Sample Dry	(g)	54.91

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	881.02
Weight of + #10 Before Washing (g)	0.00
Weight of + #10 After Washing (g)	0.00
Weight of - #10 Wet (g)	881.02
Weight of - #10 Dry (g)	841.28
Wt. Total Sample Dry (g)	841.28
Calc. Wt. "W" (g)	54.91
Calc. Mass + #10	0.00

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	0.00	0.00	0.00	0.0	100.0
3/8"	0.00	0.00	0.00	0.00	0.0	100.0
#4	0.00	0.00	0.00	0.00	0.0	100.0
#10	0.00	0.00	0.00	0.00	0.0	100.0
#20	1.57	1.68	0.11	0.11	0.2	99.8
#40	1.58	1.74	0.16	0.27	0.5	99.5
#60	1.60	1.92	0.32	0.59	1.1	98.9
#100	1.32	1.92	0.60	1.19	2.2	97.8
#200	1.58	2.47	0.89	2.08	3.8	96.2

Data entered by: NAA Date: 6-1-95
Data checked by: DSR Date: 6-5-95
FileName:SAH05002

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

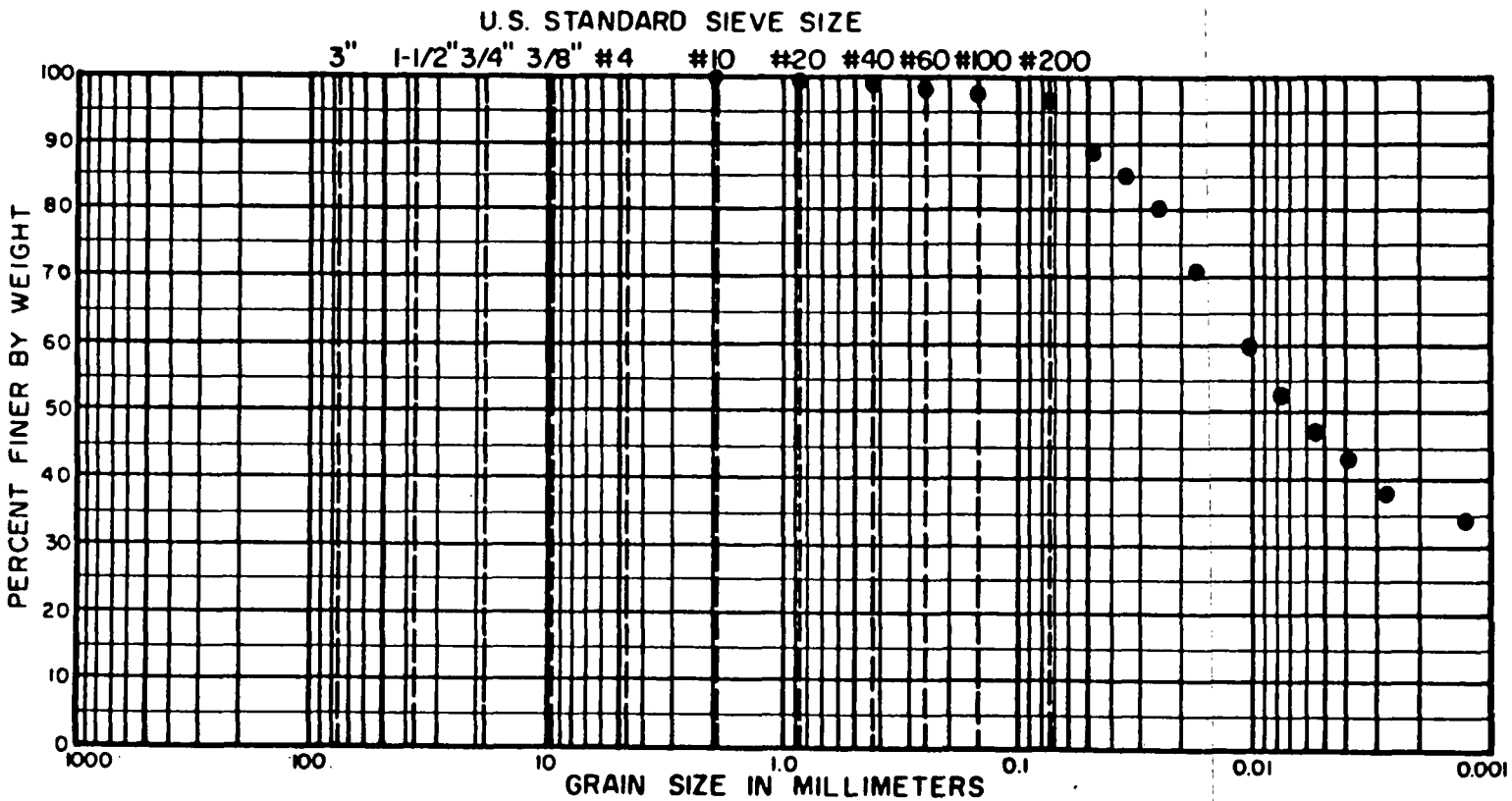
CLIENT SAIC/Parsons PO 140 JOB NO. 2059-13A

BORING NO.	G2-124	SAMPLED	4-12-95 KP, MM
DEPTH	5.0-7.0'	DATE TESTED	5-30-95 REW
SAMPLE NO.	405002	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	23.5
Sp. Gr. of Soil	2.74	Temp. Coef. K	0.01276
Value of "alpha"	0.98	Wt. Dry Sample "W"	54.909
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	4.5		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	55.00	49.50	88.5	88.5	7.27	0.0487
1.0	53.00	47.50	84.9	84.9	7.60	0.0352
2.0	50.00	44.50	79.6	79.6	8.09	0.0257
5.0	45.00	39.50	70.6	70.6	8.91	0.0170
15.0	39.00	33.50	59.9	59.9	9.89	0.0104
30.0	35.00	29.50	52.8	52.8	10.55	0.0076
60.0	32.00	26.50	47.4	47.4	11.04	0.0055
120.0	30.00	24.50	43.8	43.8	11.37	0.0039
250.0	27.00	21.50	38.5	38.5	11.86	0.0028
1266.0	24.75	19.25	34.4	34.4	12.23	0.0013

Grain Diameter = K*(SQRT(L/T))



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

LOCATION	DEPTH	CLASSIFICATION
62-124	5.0-7.0'	

405002

ADVANCED TERRA TESTING

269

000340

474

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13A

BORING NO.	G2-124	SAMPLED	4-12-95 FP, MM
DEPTH	10.0-12.0'	DATE TESTED	5-30-95 REW
SAMPLE NO.	405004	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC	Yes	
NATURAL	No	
Wt. Wet Soil & Pan	(g)	142.35
Wt. Dry Soil & Pan	(g)	134.04
Wt. Lost Moisture	(g)	8.31
Wt. of Pan Only	(g)	8.31
Wt. of Dry Soil	(g)	125.73
Moisture Content	%	6.6
Wt. Hydrom. Sample Wet	(g)	56.85
Wt. Hydrom. Sample Dry	(g)	53.33

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	448.25
Weight of + #10 Before Washing (g)	4.51
Weight of + #10 After Washing (g)	3.87
Weight of - #10 Wet (g)	443.74
Weight of - #10 Dry (g)	416.83
Wt. Total Sample Dry (g)	420.70
Calc. Wt. "W" (g)	53.82
Calc. Mass + #10	0.50

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	0.00	0.00	0.00	0.0	100.0
3/8"	0.00	0.00	0.00	0.00	0.0	100.0
#4	0.00	1.25	1.25	1.25	0.3	99.7
#10	0.00	2.62	2.62	3.87	0.9	99.1
#20	1.33	1.92	0.59	0.59	2.0	98.0
#40	1.58	2.36	0.78	1.37	3.5	96.5
#60	1.56	2.66	1.10	2.47	5.5	94.5
#100	1.57	3.37	1.80	4.27	8.9	91.1
#200	1.57	4.24	2.67	6.94	13.8	86.2

Data entered by: NAA Date: 6-6-95
Data checked by: DGR Date: 6-7-95
FileName: SAH05004

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

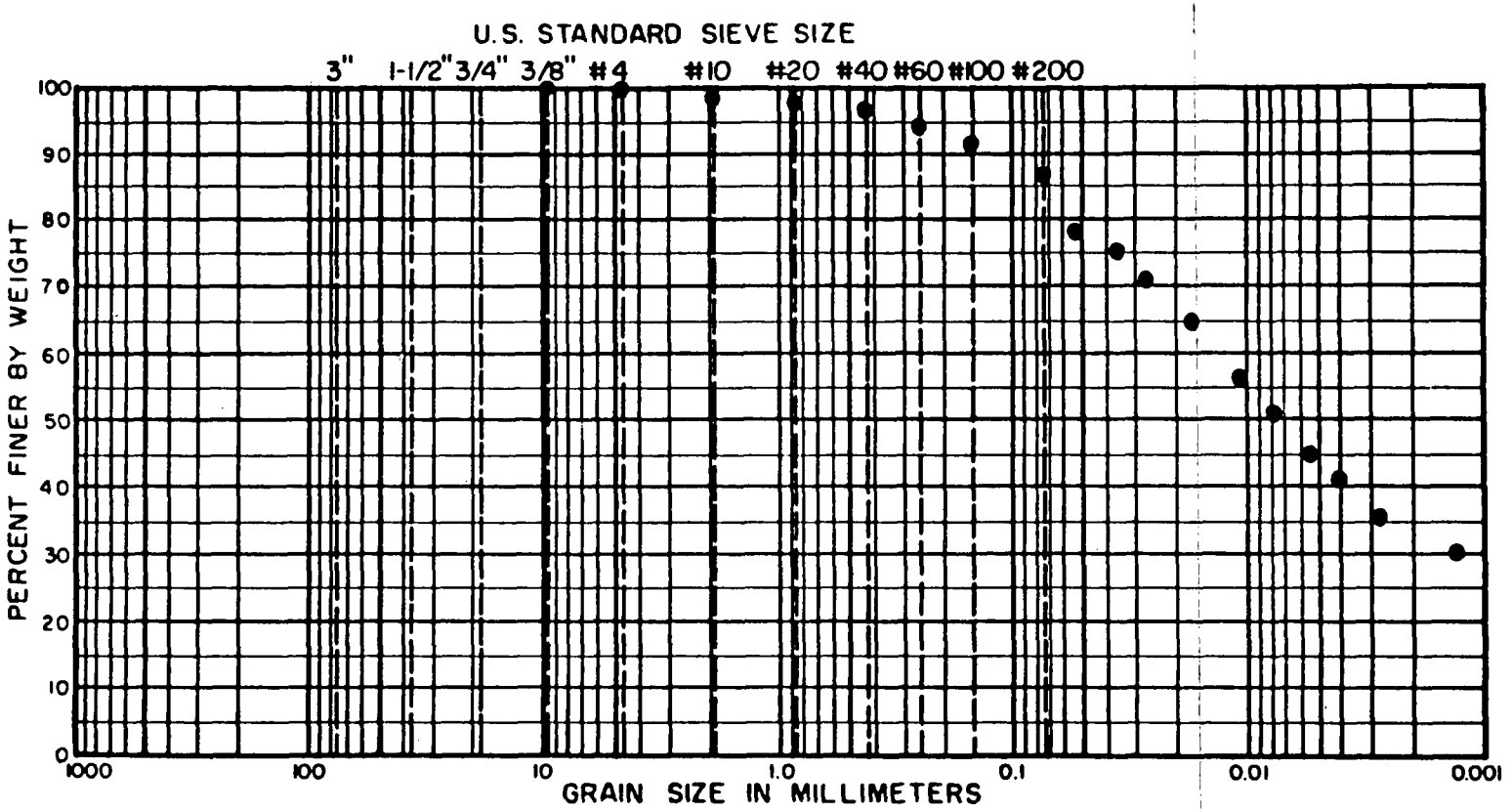
CLIENT SAIC/Parsons PO 140 JOB NO. 2059-13A

BORING NO.	G2-124	SAMPLED	4-12-95 FP, MM
DEPTH	10.0-12.0'	DATE TESTED	5-30-95 REW
SAMPLE NO.	405004	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	23.5
Sp. Gr. of Soil	2.72	Temp. Coef. K	0.01283
Value of "alpha"	0.99	Wt. Dry Sample "W"	53.822
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	4.5		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	48.00	42.50	77.9	77.9	8.42	0.0526
1.0	46.50	41.00	75.1	75.1	8.66	0.0378
2.0	44.00	38.50	70.5	70.5	9.07	0.0273
5.0	41.00	35.50	65.0	65.0	9.57	0.0177
15.0	36.00	30.50	55.9	55.9	10.39	0.0107
30.0	33.00	27.50	50.4	50.4	10.88	0.0077
60.0	30.00	24.50	44.9	44.9	11.37	0.0056
120.0	27.75	22.25	40.8	40.8	11.74	0.0040
250.0	25.00	19.50	35.7	35.7	12.19	0.0028
1261.0	21.75	16.25	29.8	29.8	12.72	0.0013

Grain Diameter = K*(SQRT(L/T))



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

LOCATION	DEPTH	CLASSIFICATION
62-124	10.0-12.0'	

405004

272

ADVANCED TERRA TESTING

000343

474

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13A

BORING NO.	G2-124	SAMPLED	4-12-95 KP, MM
DEPTH	25.0-26.5'	DATE TESTED	5-30-95 REW
SAMPLE NO.	405011	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC	Yes	
NATURAL	No	
Wt. Wet Soil & Pan	(g)	112.28
Wt. Dry Soil & Pan	(g)	111.12
Wt. Lost Moisture	(g)	1.16
Wt. of Pan Only	(g)	8.26
Wt. of Dry Soil	(g)	102.86
Moisture Content	%	1.1
Wt. Hydrom. Sample Wet	(g)	57.77
Wt. Hydrom. Sample Dry	(g)	57.12

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	504.66
Weight of + #10 Before Washing (g)	41.12
Weight of + #10 After Washing (g)	38.50
Weight of - #10 Wet (g)	463.54
Weight of - #10 Dry (g)	460.96
Wt. Total Sample Dry (g)	499.46
Calc. Wt. "W" (g)	61.89
Calc. Mass + #10	4.77

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	0.00	0.00	0.00	0.0	100.0
3/8"	0.00	6.03	6.03	6.03	1.2	98.8
#4	0.00	16.78	16.78	22.81	4.6	95.4
#10	0.00	15.69	15.69	38.50	7.7	92.3
#20	1.57	5.00	3.43	3.43	13.2	86.8
#40	1.57	3.95	2.38	5.81	17.1	82.9
#60	1.58	3.88	2.30	8.11	20.8	79.2
#100	1.56	4.37	2.81	10.92	25.4	74.6
#200	1.32	5.16	3.84	14.76	31.6	68.4

Data entered by: NAA Date: 6-1-95
Data checked by: DBQ Date: 6.5.95
FileName:SAH05011

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13A

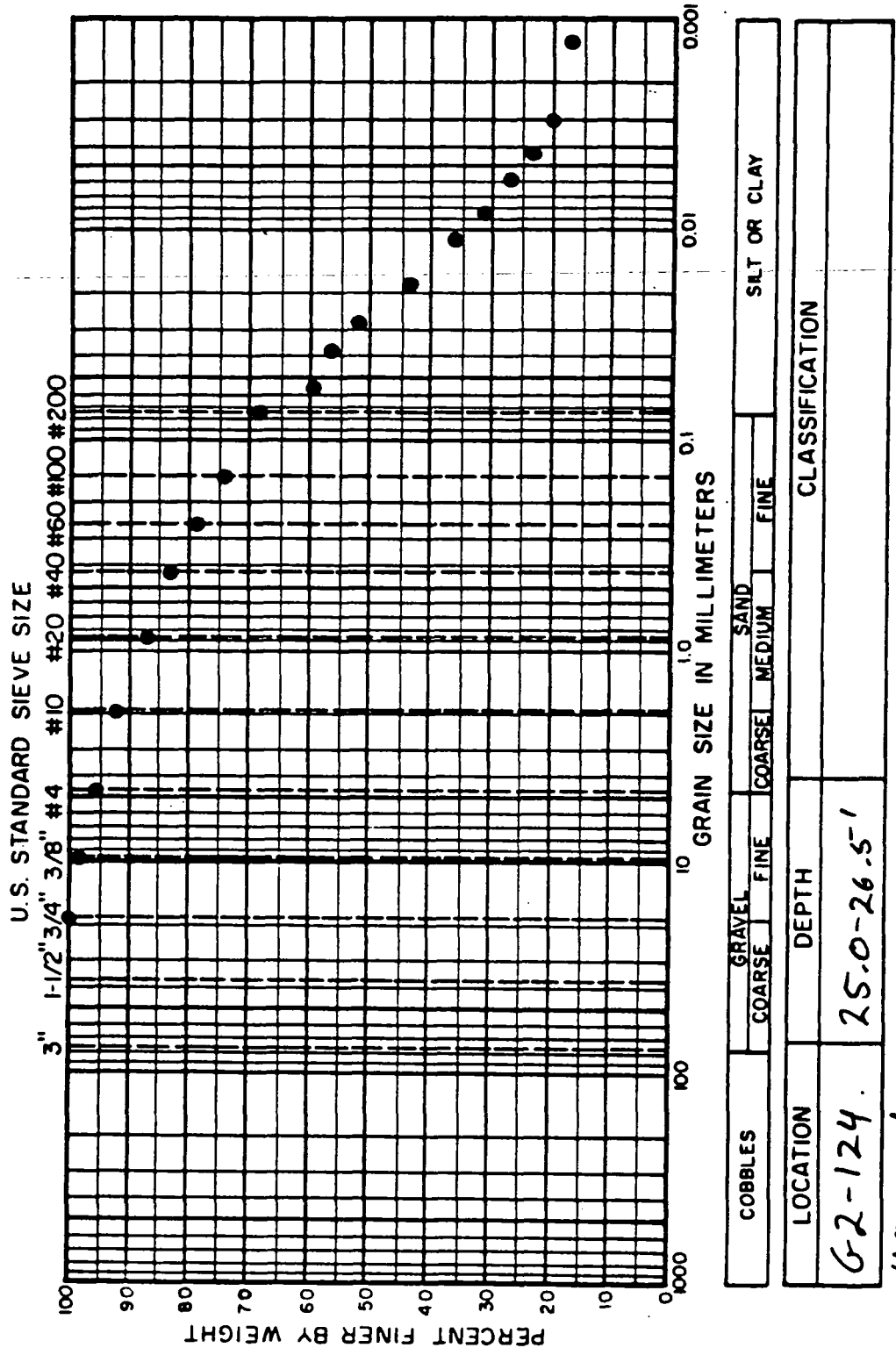
BORING NO.	G2-124	SAMPLED	4-12-95 KP, MM
DEPTH	25.0-26.5'	DATE TESTED	5-30-95 REW
SAMPLE NO.	405011	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	23.4
Sp. Gr. of Soil	2.73	Temp. Coef. K	0.01280
Value of "alpha"	0.98	Wt. Dry Sample "W"	61.895
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	4.5		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	43.00	37.50	59.6	59.6	9.24	0.0550
1.0	41.00	35.50	56.4	56.4	9.57	0.0396
2.0	38.00	32.50	51.7	51.7	10.06	0.0287
5.0	33.00	27.50	43.7	43.7	10.88	0.0189
15.0	28.00	22.50	35.8	35.8	11.70	0.0113
30.0	25.00	19.50	31.0	31.0	12.19	0.0082
60.0	22.50	17.00	27.0	27.0	12.60	0.0059
120.0	20.00	14.50	23.1	23.1	13.01	0.0042
250.0	18.00	12.50	19.9	19.9	13.34	0.0030
1271.0	16.00	10.50	16.7	16.7	13.67	0.0013

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



LOCATION	DEPTH	CLASSIFICATION
G2-124.	25.0-26.5'	

405011

ADVANCED TERRA TESTING

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13A

BORING NO.	G2-124	SAMPLED	4-12-95 KP, MM
DEPTH	30.0-31.5'	DATE TESTED	6-1-95 REW
SAMPLE NO.	405012	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC	Yes	
NATURAL	No	
Wt. Wet Soil & Pan	(g)	47.88
Wt. Dry Soil & Pan	(g)	47.73
Wt. Lost Moisture	(g)	0.15
Wt. of Pan Only	(g)	3.61
Wt. of Dry Soil	(g)	44.12
Moisture Content	%	0.3
Wt. Hydrom. Sample Wet	(g)	56.51
Wt. Hydrom. Sample Dry	(g)	56.32

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	381.79
Weight of + #10 Before Washing (g)	48.62
Weight of + #10 After Washing (g)	43.45
Weight of - #10 Wet (g)	333.17
Weight of - #10 Dry (g)	337.19
Wt. Total Sample Dry (g)	380.64
Calc. Wt. "W" (g)	63.58
Calc. Mass + #10	7.26

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	0.00	0.00	0.00	0.0	100.0
3/8"	0.00	6.21	6.21	6.21	1.6	98.4
#4	0.00	11.11	11.11	17.32	4.6	95.4
#10	0.00	26.13	26.13	43.45	11.4	88.6
#20	1.57	11.91	10.34	10.34	27.7	72.3
#40	1.57	15.39	13.82	24.16	49.4	50.6
#60	1.57	10.96	9.39	33.55	64.2	35.8
#100	1.58	6.11	4.53	38.08	71.3	28.7
#200	1.57	4.00	2.43	40.51	75.1	24.9

Data entered by: NAA Date: 5-30-95
Data checked by: DAR Date: 6-7-95
FileName:SAH05012

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

CLIENT SAIC/Parsons PO 140 JOB NO. 2059-13A

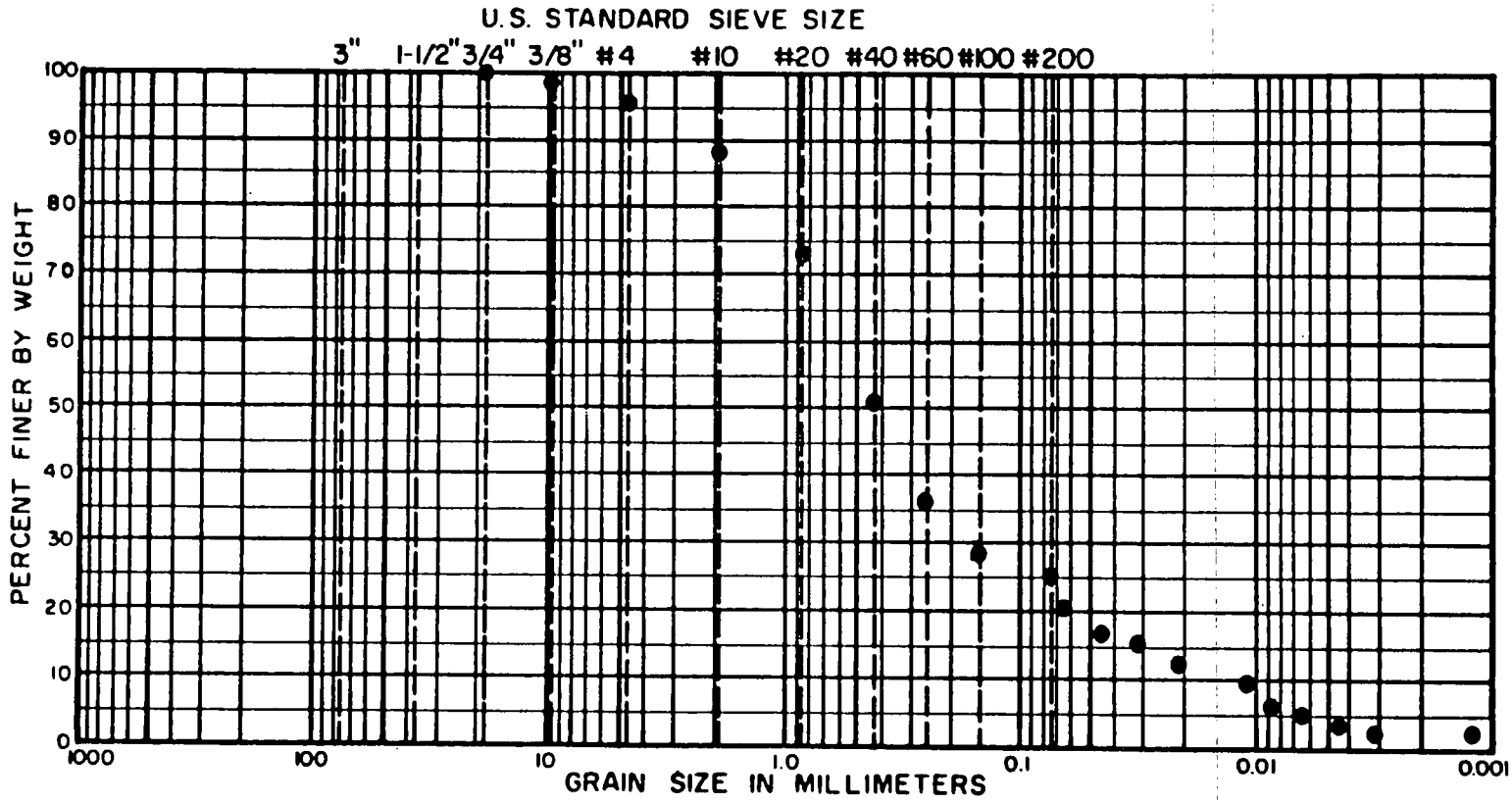
BORING NO.	G2-124	SAMPLED	4-12-95 KP, MM
DEPTH	30.0-31.5'	DATE TESTED	6-1-95 REW
SAMPLE NO.	405012	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	24.7
Sp. Gr. of Soil	2.74	Temp. Coef. K	0.01260
Value of "alpha"	0.98	Wt. Dry Sample "W"	63.578
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	5.0		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	19.00	13.00	20.1	20.1	13.17	0.0647
1.0	17.00	11.00	17.0	17.0	13.50	0.0463
2.0	16.00	10.00	15.4	15.4	13.67	0.0329
5.0	14.00	8.00	12.4	12.4	13.99	0.0211
15.0	12.00	6.00	9.3	9.3	14.32	0.0123
30.0	10.00	4.00	6.2	6.2	14.65	0.0088
60.0	9.25	3.25	5.0	5.0	14.77	0.0063
120.0	8.25	2.25	3.5	3.5	14.94	0.0044
250.0	7.75	1.75	2.7	2.7	15.02	0.0031
1320.0	7.75	1.75	2.7	2.7	15.02	0.0013

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

LOCATION	DEPTH	CLASSIFICATION
G2-124	30.0-31.5'	

405012

ADVANCED TERRA TESTING

278

000349

474

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13A

BORING NO.	G2-124	SAMPLED	4-12-95 FP, MM
DEPTH	35.0-36.5'	DATE TESTED	6-5-95 DPM
SAMPLE NO.	405013	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC	Yes	
NATURAL	No	
Wt. Wet Soil & Pan	(g)	80.36
Wt. Dry Soil & Pan	(g)	80.13
Wt. Lost Moisture	(g)	0.23
Wt. of Pan Only	(g)	3.73
Wt. of Dry Soil	(g)	76.40
Moisture Content	%	0.3
Wt. Hydrom. Sample Wet	(g)	58.59
Wt. Hydrom. Sample Dry	(g)	58.42

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	375.67
Weight of + #10 Before Washing (g)	75.55
Weight of + #10 After Washing (g)	71.83
Weight of - #10 Wet (g)	300.12
Weight of - #10 Dry (g)	302.93
Wt. Total Sample Dry (g)	374.76
Calc. Wt. "W" (g)	72.27
Calc. Mass + #10	13.85

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	0.00	0.00	0.00	0.0	100.0
3/8"	0.00	23.29	23.29	23.29	6.2	93.8
#4	0.00	17.23	17.23	40.52	10.8	89.2
#10	0.00	31.31	31.31	71.83	19.2	80.8
#20	1.58	9.91	8.33	8.33	30.7	69.3
#40	1.59	13.25	11.66	19.99	46.8	53.2
#60	1.58	13.22	11.64	31.63	62.9	37.1
#100	1.59	8.70	7.11	38.74	72.8	27.2
#200	1.58	5.54	3.96	42.70	78.3	21.7

Data entered by: NAA Date: 6-8-95
Data checked by: DSL Date: 6-9-95
FileName:SAH05013

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13A

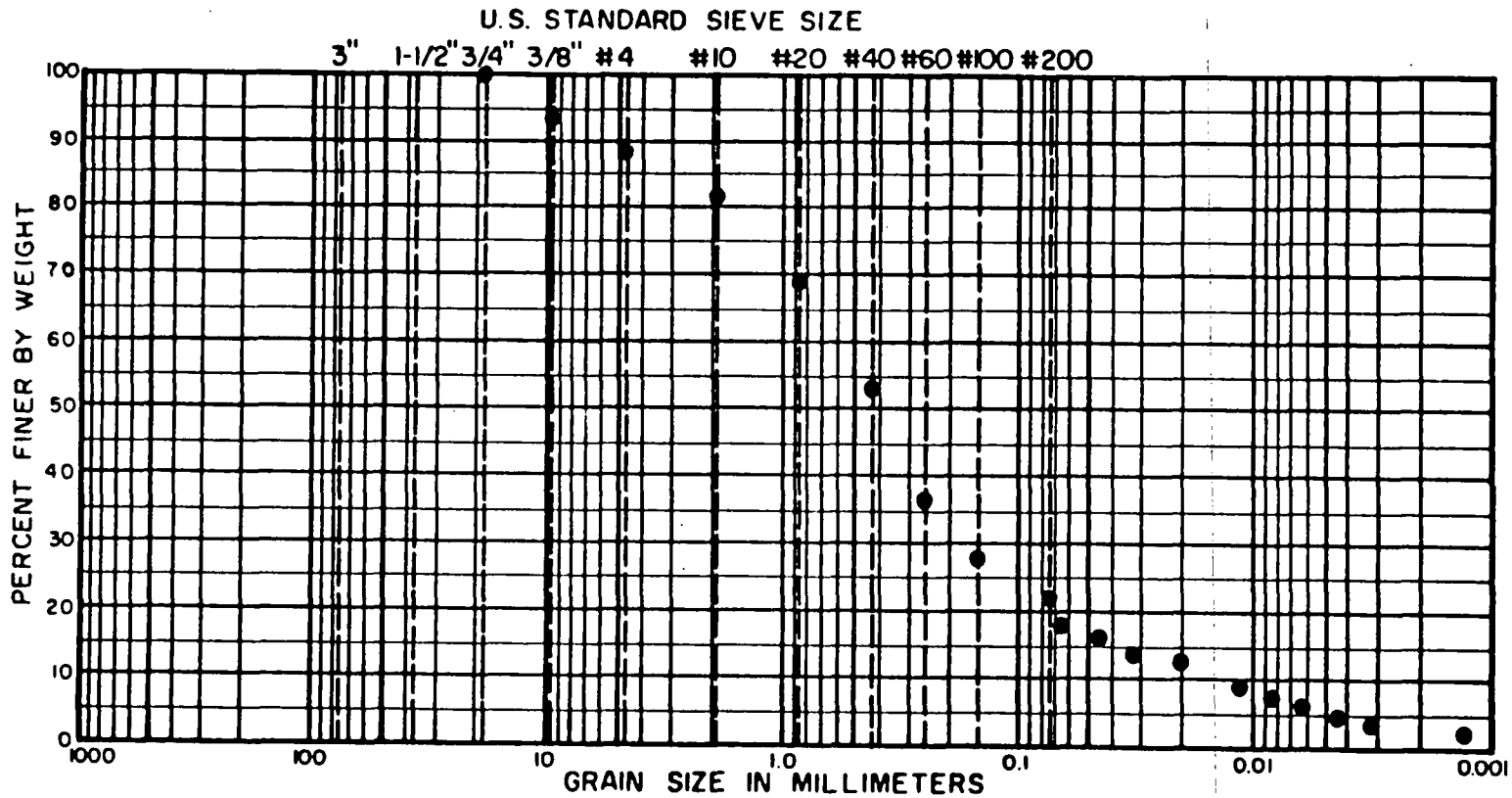
BORING NO.	G2-124	SAMPLED	4-12-95 FP, MM
DEPTH	35.0-36.5'	DATE TESTED	6-5-95 DPM
SAMPLE NO.	405013	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	24.1
Sp. Gr. of Soil	2.76	Temp. Coef. K	0.01259
Value of "alpha"	0.98	Wt. Dry Sample "W"	72.269
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	4.5		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	19.00	13.50	18.3	18.3	13.17	0.0646
1.0	17.50	12.00	16.2	16.2	13.42	0.0461
2.0	16.00	10.50	14.2	14.2	13.67	0.0329
5.0	15.00	9.50	12.9	12.9	13.83	0.0209
15.0	12.25	6.75	9.1	9.1	14.28	0.0123
30.0	11.00	5.50	7.4	7.4	14.49	0.0087
60.0	10.00	4.50	6.1	6.1	14.65	0.0062
120.0	9.00	3.50	4.7	4.7	14.81	0.0044
250.0	8.00	2.50	3.4	3.4	14.98	0.0031
1439.0	7.50	2.00	2.7	2.7	15.06	0.0013

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

LOCATION	DEPTH	CLASSIFICATION
G2-124	35.0-36.5'	

405013

ADVANCED TERRA TESTING INC.

281

000352

474

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13A

BORING NO.	G2-124	SAMPLED	4-12-95 KP, MM
DEPTH	40.0-41.5'	DATE TESTED	5-25-95 REW
SAMPLE NO.	405014	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC	Yes	
NATURAL	No	
Wt. Wet Soil & Pan	(g)	57.27
Wt. Dry Soil & Pan	(g)	57.14
Wt. Lost Moisture	(g)	0.13
Wt. of Pan Only	(g)	3.64
Wt. of Dry Soil	(g)	53.50
Moisture Content	%	0.2
Wt. Hydrom. Sample Wet	(g)	55.18
Wt. Hydrom. Sample Dry	(g)	55.04

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	243.29
Weight of + #10 Before Washing (g)	10.12
Weight of + #10 After Washing (g)	9.68
Weight of - #10 Wet (g)	233.17
Weight of - #10 Dry (g)	233.04
Wt. Total Sample Dry (g)	242.72
Calc. Wt. "W" (g)	57.33
Calc. Mass + #10	2.29

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	0.00	0.00	0.00	0.0	100.0
3/8"	0.00	0.00	0.00	0.00	0.0	100.0
#4	0.00	4.31	4.31	4.31	1.8	98.2
#10	0.00	5.37	5.37	9.68	4.0	96.0
#20	1.57	4.37	2.80	2.80	8.9	91.1
#40	1.58	15.97	14.39	17.19	34.0	66.0
#60	1.58	19.77	18.19	35.38	65.7	34.3
#100	1.57	10.61	9.04	44.42	81.5	18.5
#200	1.57	4.04	2.47	46.89	85.8	14.2

Data entered by: NAA Date: 6-1-95
Data checked by: DSR Date: 6-5-95
FileName:SAH05014

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13A

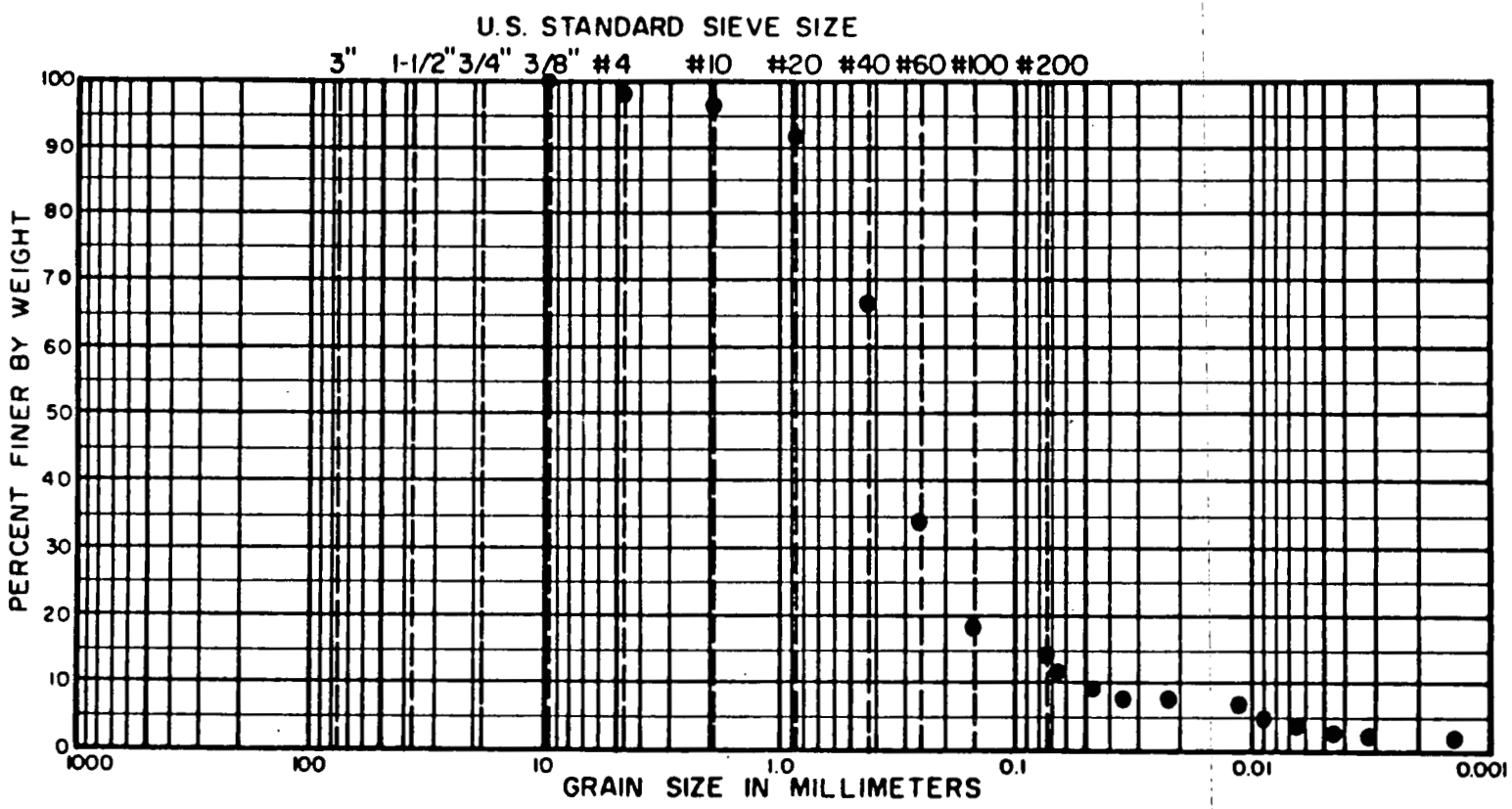
BORING NO.	G2-124	SAMPLED	4-12-95 KP, MM
DEPTH	40.0-41.5'	DATE TESTED	5-25-95 REW
SAMPLE NO.	405014	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	23.7
Sp. Gr. of Soil	2.72	Temp. Coef. K	0.01280
Value of "alpha"	0.99	Wt. Dry Sample "W"	57.328
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	4.5		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	12.00	6.50	11.2	11.2	14.32	0.0685
1.0	11.00	5.50	9.5	9.5	14.49	0.0487
2.0	10.00	4.50	7.7	7.7	14.65	0.0346
5.0	10.00	4.50	7.7	7.7	14.65	0.0219
15.0	9.00	3.50	6.0	6.0	14.81	0.0127
30.0	8.25	2.75	4.7	4.7	14.94	0.0090
60.0	7.75	2.25	3.9	3.9	15.02	0.0064
120.0	7.00	1.50	2.6	2.6	15.14	0.0045
250.0	6.75	1.25	2.1	2.1	15.18	0.0032
1223.0	6.75	1.25	2.1	2.1	15.18	0.0014

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

LOCATION	DEPTH	CLASSIFICATION
62-124	40.0-41.5	

405014

284

ADVANCED TERRA TESTING

000355

474

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13A

BORING NO.	G2-124	SAMPLED	4-12-95 KP, MM
DEPTH	45.0-46.5'	DATE TESTED	6-1-95 REW
SAMPLE NO.	405015	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC	Yes	
NATURAL	No	
Wt. Wet Soil & Pan	(g)	64.81
Wt. Dry Soil & Pan	(g)	64.69
Wt. Lost Moisture	(g)	0.12
Wt. of Pan Only	(g)	3.53
Wt. of Dry Soil	(g)	61.16
Moisture Content	%	0.2
Wt. Hydrom. Sample Wet	(g)	55.57
Wt. Hydrom. Sample Dry	(g)	55.47

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	394.75
Weight of + #10 Before Washing (g)	70.22
Weight of + #10 After Washing (g)	68.73
Weight of - #10 Wet (g)	324.53
Weight of - #10 Dry (g)	325.38
Wt. Total Sample Dry (g)	394.11
Calc. Wt. "W" (g)	67.18
Calc. Mass + #10	11.72

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	0.00	0.00	0.00	0.0	100.0
3/8"	0.00	10.71	10.71	10.71	2.7	97.3
#4	0.00	26.83	26.83	37.54	9.5	90.5
#10	0.00	31.19	31.19	68.73	17.4	82.6
#20	1.57	7.80	6.23	6.23	26.7	73.3
#40	1.58	19.59	18.01	24.24	53.5	46.5
#60	1.59	15.83	14.24	38.48	74.7	25.3
#100	1.58	7.49	5.91	44.39	83.5	16.5
#200	1.59	3.86	2.27	46.66	86.9	13.1

Data entered by: NAA Date: 5-30-95
Data checked by: DSR Date: 6-7-95
FileName:SAH05015

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

CLIENT SAIC/Parsons PO 140 JOB NO. 2059-13A

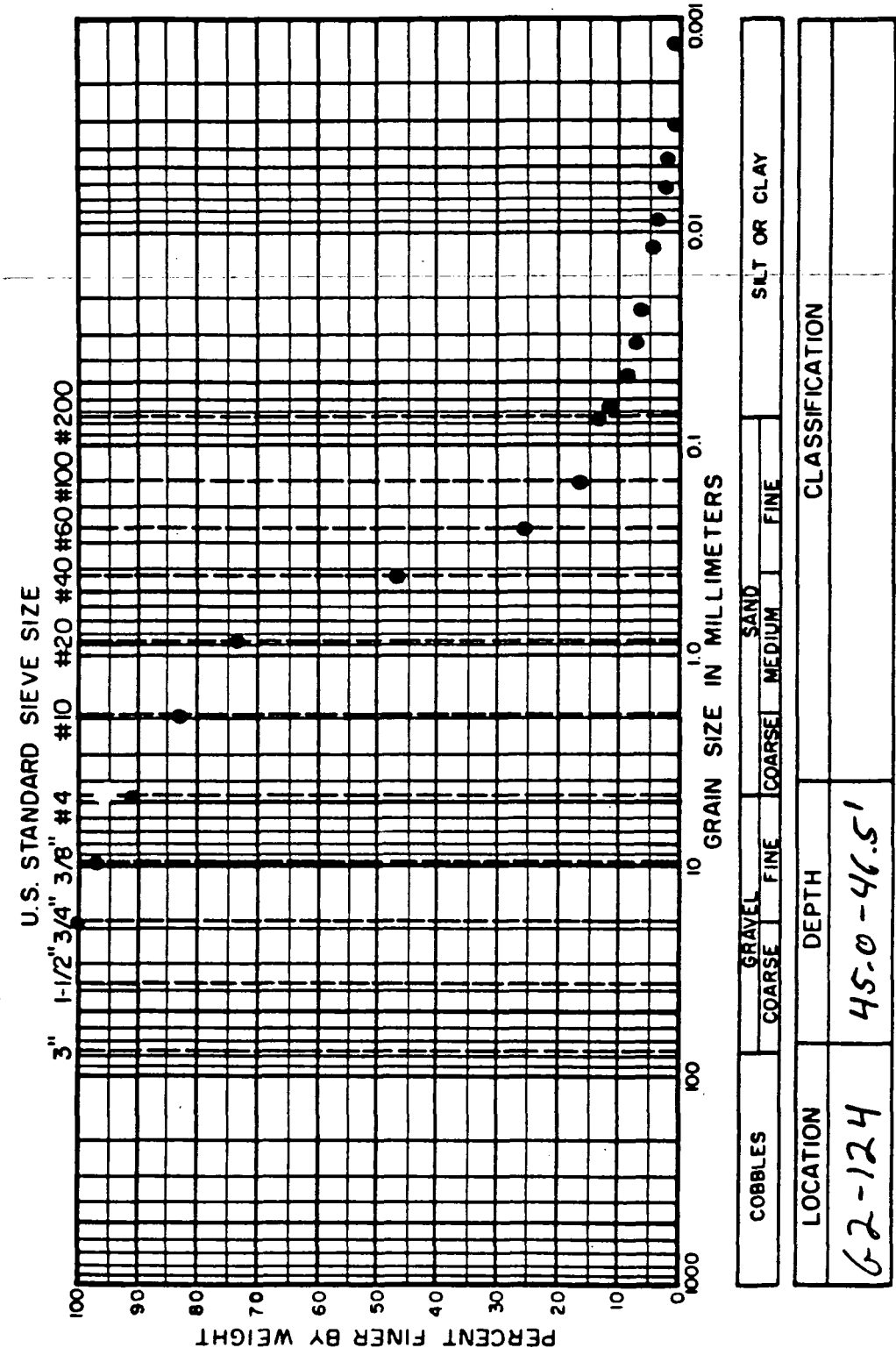
BORING NO.	G2-124	SAMPLED	4-12-95 KP, MM
DEPTH	45.0-46.5'	DATE TESTED	6-1-95 REW
SAMPLE NO.	405015	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	24.8
Sp. Gr. of Soil	2.73	Temp. Coef. K	0.01266
Value of "alpha"	0.98	Wt. Dry Sample "W"	67.181
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	5.0		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	13.00	7.00	10.3	10.3	14.16	0.0674
1.0	11.75	5.75	8.4	8.4	14.36	0.0480
2.0	11.00	5.00	7.3	7.3	14.49	0.0341
5.0	10.00	4.00	5.9	5.9	14.65	0.0217
15.0	9.00	3.00	4.4	4.4	14.81	0.0126
30.0	8.00	2.00	2.9	2.9	14.98	0.0089
60.0	7.50	1.50	2.2	2.2	15.06	0.0063
120.0	7.00	1.00	1.5	1.5	15.14	0.0045
250.0	6.50	0.50	0.7	0.7	15.22	0.0031
1320.0	6.50	0.50	0.7	0.7	15.22	0.0014

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



ADVANCED TERRA TESTING

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13A

BORING NO.	G2-124	SAMPLED	4-13-95 KP, MM
DEPTH	50.0-51.5'	DATE TESTED	6-6-95 REW
SAMPLE NO.	405016	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC	Yes	
NATURAL	No	
Wt. Wet Soil & Pan	(g)	62.41
Wt. Dry Soil & Pan	(g)	62.29
Wt. Lost Moisture	(g)	0.12
Wt. of Pan Only	(g)	3.63
Wt. of Dry Soil	(g)	58.66
Moisture Content	%	0.2
Wt. Hydrom. Sample Wet	(g)	57.45
Wt. Hydrom. Sample Dry	(g)	57.33

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	394.43
Weight of + #10 Before Washing (g)	145.17
Weight of + #10 After Washing (g)	138.60
Weight of - #10 Wet (g)	249.26
Weight of - #10 Dry (g)	255.31
Wt. Total Sample Dry (g)	393.91
Calc. Wt. "W" (g)	88.46
Calc. Mass + #10	31.13

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	0.00	0.00	0.00	0.0	100.0
3/8"	0.00	41.27	41.27	41.27	10.5	89.5
#4	0.00	42.35	42.35	83.62	21.2	78.8
#10	0.00	54.98	54.98	138.60	35.2	64.8
#20	1.57	10.02	8.45	8.45	44.7	55.3
#40	1.57	17.99	16.42	24.87	63.3	36.7
#60	1.57	14.21	12.64	37.51	77.6	22.4
#100	1.31	5.67	4.36	41.87	82.5	17.5
#200	1.57	4.17	2.60	44.47	85.5	14.5

Data entered by: NAA Date: 6-12-95
Data checked by: WEB Date: 6-12-95
FileName:SAH05016

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

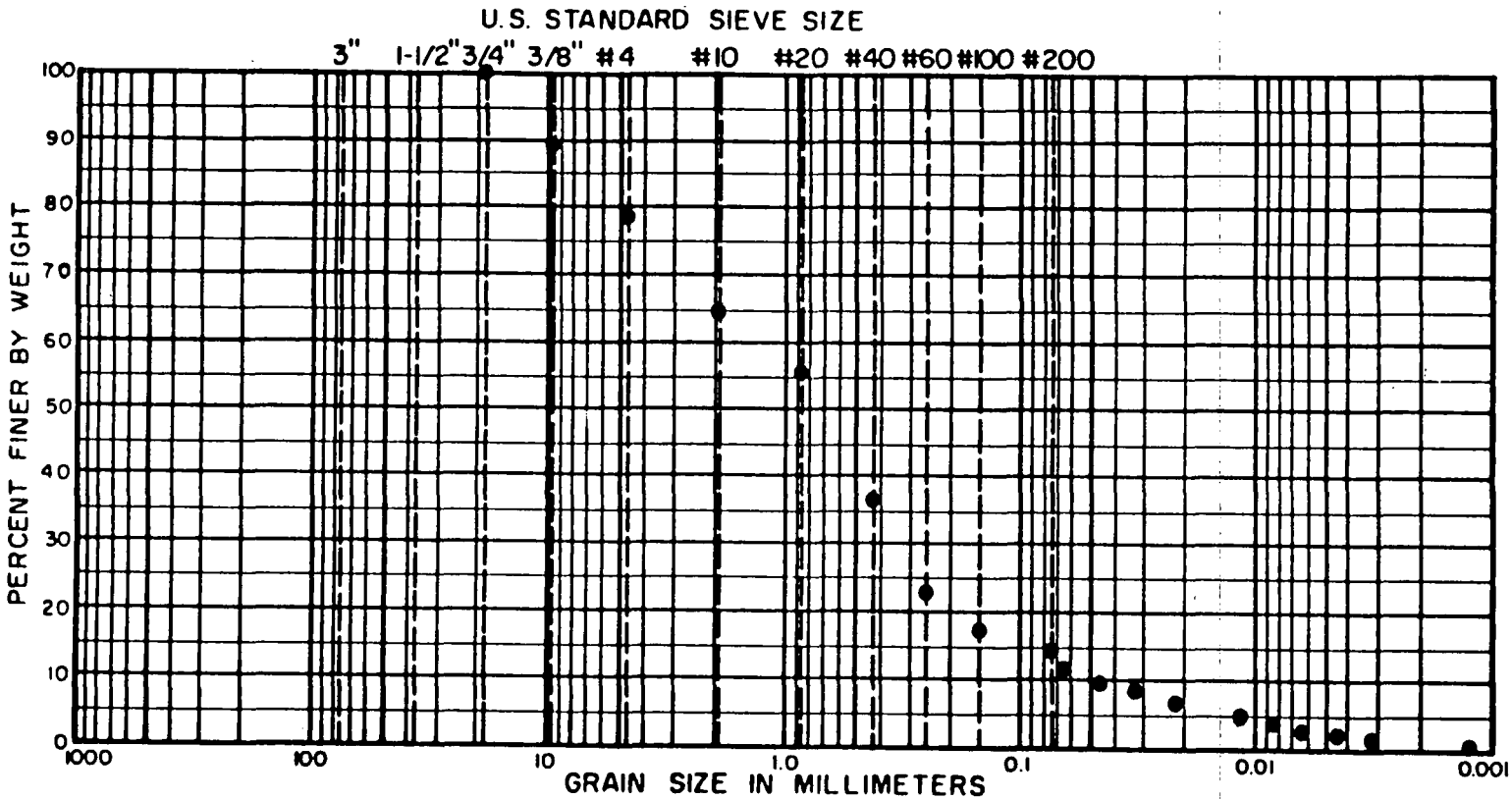
CLIENT SAIC/Parsons PO 140 JOB NO. 2059-13A

BORING NO.	G2-124	SAMPLED	4-13-95 KP, MM
DEPTH	50.0-51.5'	DATE TESTED	6-6-95 REW
SAMPLE NO.	405016	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	24.2
Sp. Gr. of Soil	2.79	Temp. Coef. K	0.01246
Value of "alpha"	0.97	Wt. Dry Sample "W"	88.460
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	5.0		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	16.00	10.00	11.0	11.0	13.67	0.0651
1.0	15.00	9.00	9.9	9.9	13.83	0.0463
2.0	14.00	8.00	8.8	8.8	13.99	0.0330
5.0	12.00	6.00	6.6	6.6	14.32	0.0211
15.0	10.50	4.50	4.9	4.9	14.57	0.0123
30.0	9.50	3.50	3.8	3.8	14.73	0.0087
60.0	8.50	2.50	2.7	2.7	14.90	0.0062
120.0	8.00	2.00	2.2	2.2	14.98	0.0044
250.0	7.00	1.00	1.1	1.1	15.14	0.0031
1435.0	6.50	0.50	0.5	0.5	15.22	0.0013

Grain Diameter = K*(SQRT(L/T))



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

LOCATION	DEPTH	CLASSIFICATION
62-124	50.0-51.5'	

405016

ADVANCED TERRA TESTING

290

000361

474

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13A

BORING NO.	G2-124	SAMPLED	4-13-95 KP, MM
DEPTH	55.0-56.5'	DATE TESTED	5-26-95 REW
SAMPLE NO.	405017	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC	Yes	
NATURAL	No	
Wt. Wet Soil & Pan	(g)	57.61
Wt. Dry Soil & Pan	(g)	57.50
Wt. Lost Moisture	(g)	0.11
Wt. of Pan Only	(g)	3.76
Wt. of Dry Soil	(g)	53.74
Moisture Content	%	0.2
Wt. Hydrom. Sample Wet	(g)	55.27
Wt. Hydrom. Sample Dry	(g)	55.16

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	431.12
Weight of + #10 Before Washing (g)	200.81
Weight of + #10 After Washing (g)	195.77
Weight of - #10 Wet (g)	230.31
Weight of - #10 Dry (g)	234.87
Wt. Total Sample Dry (g)	430.64
Calc. Wt. "W" (g)	101.13
Calc. Mass + #10	45.97

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	0.00	0.00	0.00	0.0	100.0
3/8"	0.00	63.48	63.48	63.48	14.7	85.3
#4	0.00	63.60	63.60	127.08	29.5	70.5
#10	0.00	68.69	68.69	195.77	45.5	54.5
#20	1.57	16.61	15.04	15.04	60.3	39.7
#40	1.59	16.83	15.24	30.28	75.4	24.6
#60	1.59	8.88	7.29	37.57	82.6	17.4
#100	1.58	5.24	3.66	41.23	86.2	13.8
#200	1.57	3.87	2.30	43.53	88.5	11.5

Data entered by: NAA Date: 6-1-95
Data checked by: [illegible] Date: 6.5.95
FileName:SAH0017

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

CLIENT SAIC/Parsons PO 140 JOB NO. 2059-13A

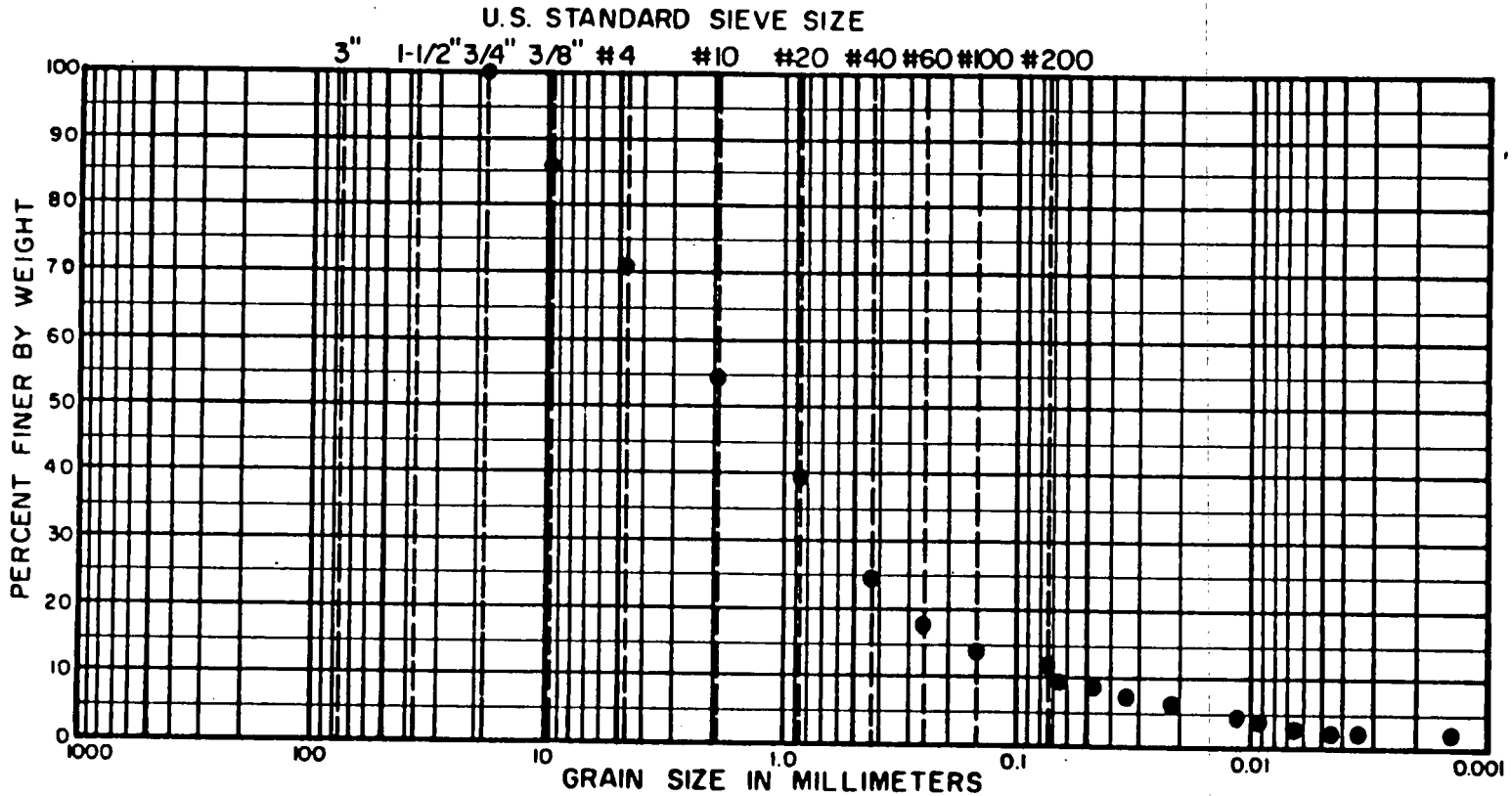
BORING NO.	G2-124	SAMPLED	4-13-95 KP, MM
DEPTH	55.0-56.5'	DATE TESTED	5-26-95 REW
SAMPLE NO.	405017	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	23.3
Sp. Gr. of Soil	2.71	Temp. Coef. K	0.01289
Value of "alpha"	0.99	Wt. Dry Sample "W"	101.130
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	4.5		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	15.00	9.50	9.3	9.3	13.83	0.0678
1.0	13.75	8.25	8.1	8.1	14.04	0.0483
2.0	12.75	7.25	7.1	7.1	14.20	0.0343
5.0	11.50	6.00	5.9	5.9	14.40	0.0219
15.0	10.00	4.50	4.4	4.4	14.65	0.0127
30.0	9.00	3.50	3.4	3.4	14.81	0.0091
60.0	8.00	2.50	2.4	2.4	14.98	0.0064
120.0	7.00	1.50	1.5	1.5	15.14	0.0046
250.0	7.00	1.50	1.5	1.5	15.14	0.0032
1306.0	7.00	1.50	1.5	1.5	15.14	0.0014

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

LOCATION	DEPTH	CLASSIFICATION
5-2-124	55.0-56.5'	

405017

293

ADVANCED TERRA TESTING

474

000364

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13A

BORING NO.	G2-124	SAMPLED	4-13-95 KP, MM
DEPTH	60.0-61.5'	DATE TESTED	5-30-95 REW
SAMPLE NO.	405018	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC	Yes	
NATURAL	No	
Wt. Wet Soil & Pan	(g)	60.87
Wt. Dry Soil & Pan	(g)	60.82
Wt. Lost Moisture	(g)	0.05
Wt. of Pan Only	(g)	8.37
Wt. of Dry Soil	(g)	52.45
Moisture Content	%	0.1
Wt. Hydrom. Sample Wet	(g)	55.31
Wt. Hydrom. Sample Dry	(g)	55.26

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	283.32
Weight of + #10 Before Washing (g)	121.05
Weight of + #10 After Washing (g)	115.61
Weight of - #10 Wet (g)	162.27
Weight of - #10 Dry (g)	167.55
Wt. Total Sample Dry (g)	283.16
Calc. Wt. "W" (g)	93.38
Calc. Mass + #10	38.13

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	13.10	13.10	13.10	4.6	95.4
3/8"	0.00	38.12	38.12	51.22	18.1	81.9
#4	0.00	26.98	26.98	78.20	27.6	72.4
#10	0.00	37.41	37.41	115.61	40.8	59.2
#20	1.58	12.40	10.82	10.82	52.4	47.6
#40	1.58	16.97	15.39	26.21	68.9	31.1
#60	1.58	13.17	11.59	37.80	81.3	18.7
#100	1.56	5.41	3.85	41.65	85.4	14.6
#200	1.57	4.08	2.51	44.16	88.1	11.9

Data entered by: NAA Date: 6-1-95
Data checked by: JSR Date: 6.5.95
FileName:SAH05018

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

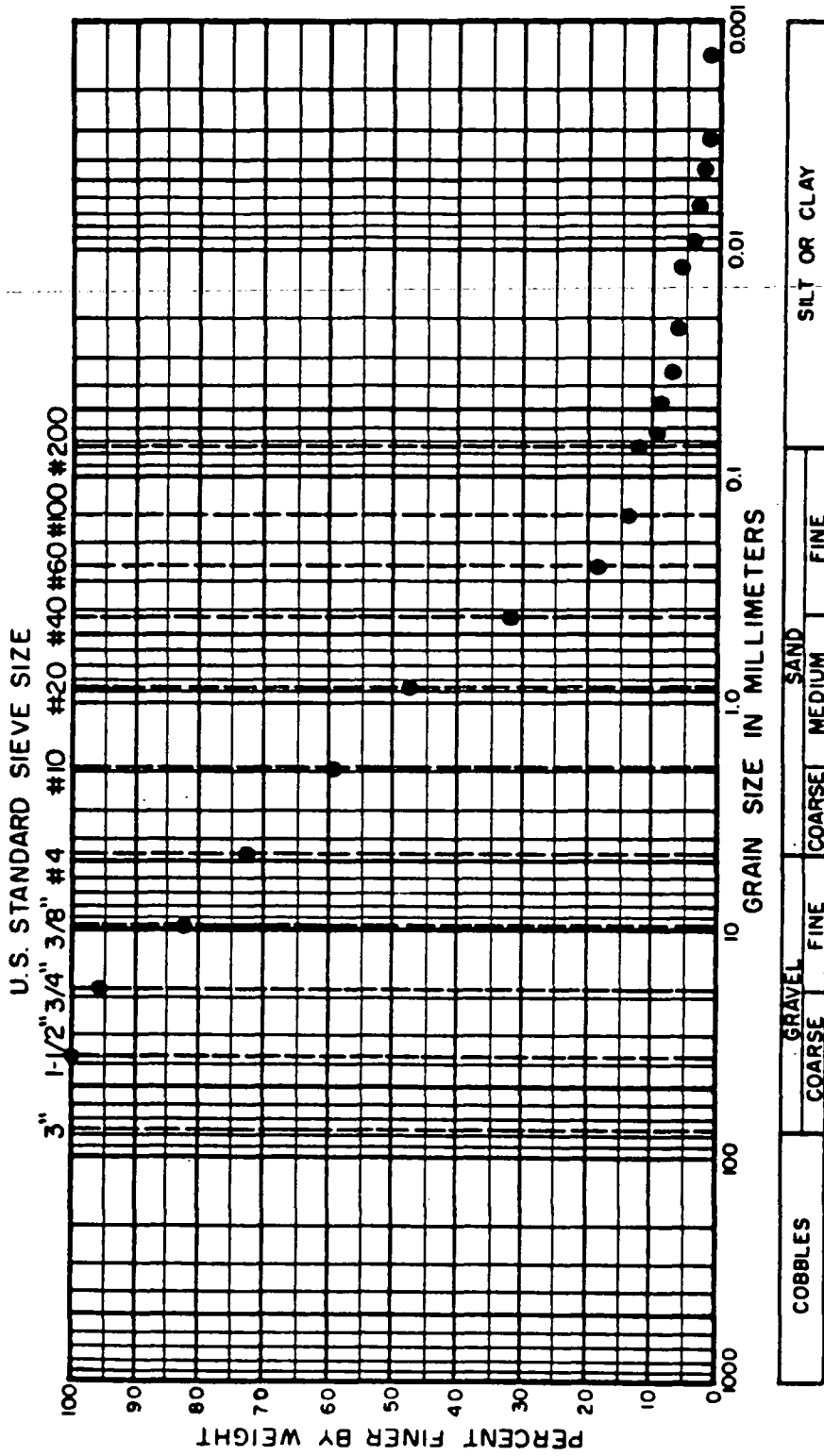
CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13A
BORING NO.	G2-124	SAMPLED	4-13-95 KP, MM
DEPTH	60.0-61.5'	DATE TESTED	5-30-95 REW
SAMPLE NO.	405018	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	23.3
Sp. Gr. of Soil	2.69	Temp. Coef. K	0.01297
Value of "alpha"	0.99	Wt. Dry Sample "W"	93.382
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	4.5		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	14.50	9.00	9.6	9.6	13.91	0.0684
1.0	13.25	7.75	8.2	8.2	14.12	0.0487
2.0	12.00	6.50	6.9	6.9	14.32	0.0347
5.0	11.00	5.50	5.8	5.8	14.49	0.0221
15.0	10.50	5.00	5.3	5.3	14.57	0.0128
30.0	9.00	3.50	3.7	3.7	14.81	0.0091
60.0	8.50	3.00	3.2	3.2	14.90	0.0065
120.0	8.00	2.50	2.7	2.7	14.98	0.0046
250.0	7.00	1.50	1.6	1.6	15.14	0.0032
1296.0	7.00	1.50	1.6	1.6	15.14	0.0014

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



LOCATION	DEPTH	CLASSIFICATION
62-124	60.0-61.5'	

405018

ADVANCED TERRA TESTING

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13A

BORING NO.	G2-124	SAMPLED	4-13-95 KP, MM
DEPTH	65.0-66.5'	DATE TESTED	5-24-95 REW
SAMPLE NO.	405019	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC	Yes	
NATURAL	No	
Wt. Wet Soil & Pan	(g)	75.90
Wt. Dry Soil & Pan	(g)	75.83
Wt. Lost Moisture	(g)	0.07
Wt. of Pan Only	(g)	8.27
Wt. of Dry Soil	(g)	67.56
Moisture Content	%	0.1
Wt. Hydrom. Sample Wet	(g)	55.14
Wt. Hydrom. Sample Dry	(g)	55.08

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	268.86
Weight of + #10 Before Washing (g)	155.79
Weight of + #10 After Washing (g)	152.46
Weight of - #10 Wet (g)	113.07
Weight of - #10 Dry (g)	116.28
Wt. Total Sample Dry (g)	268.74
Calc. Wt. "W" (g)	127.30
Calc. Mass + #10	72.22

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	0.00	0.00	0.00	0.0	100.0
3/8"	0.00	14.52	14.52	14.52	5.4	94.6
#4	0.00	58.36	58.36	72.88	27.1	72.9
#10	0.00	79.58	79.58	152.46	56.7	43.3
#20	1.57	24.93	23.36	23.36	75.1	24.9
#40	1.31	12.48	11.17	34.53	83.9	16.1
#60	1.59	7.02	5.43	39.96	88.1	11.9
#100	1.58	5.87	4.29	44.25	91.5	8.5
#200	1.56	3.82	2.26	46.51	93.3	6.7

Data entered by: NAA Date: 6-1-95
Data checked by: DJR Date: 6-5-95
FileName:SAH05019

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

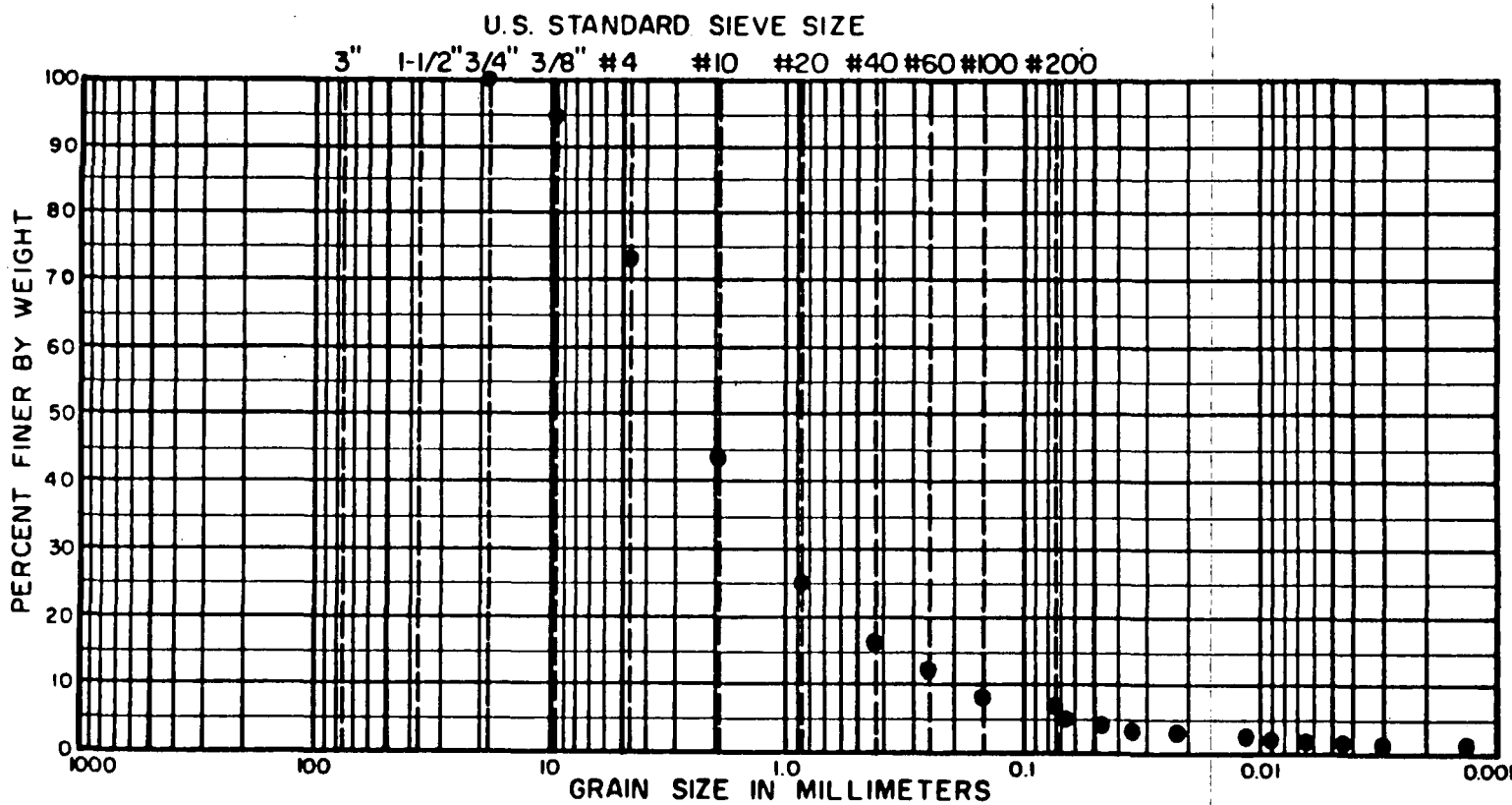
CLIENT SAIC/Parsons PO 140 JOB NO. 2059-13A

BORING NO.	G2-124	SAMPLED	4-13-95 KP, MM
DEPTH	65.0-66.5'	DATE TESTED	5-24-95 REW
SAMPLE NO.	405019	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	23.8
Sp. Gr. of Soil	2.76	Temp. Coef. K	0.01263
Value of "alpha"	0.98	Wt. Dry Sample "W"	127.298
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	4.5		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	12.00	6.50	5.0	5.0	14.32	0.0676
1.0	11.00	5.50	4.2	4.2	14.49	0.0481
2.0	10.00	4.50	3.5	3.5	14.65	0.0342
5.0	9.50	4.00	3.1	3.1	14.73	0.0217
15.0	9.00	3.50	2.7	2.7	14.81	0.0126
30.0	8.25	2.75	2.1	2.1	14.94	0.0089
60.0	7.75	2.25	1.7	1.7	15.02	0.0063
120.0	7.00	1.50	1.2	1.2	15.14	0.0045
250.0	6.75	1.25	1.0	1.0	15.18	0.0031
1228.0	6.75	1.25	1.0	1.0	15.18	0.0014

Grain Diameter = K*(SQRT(L/T))



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

LOCATION	DEPTH	CLASSIFICATION
G2-124	65.0-66.5'	

405019

ADVANCED TERRA TESTING

299

000320

474

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13A

BORING NO.	G2-124	SAMPLED	4-13-95 KP, MM
DEPTH	70.0-71.5'	DATE TESTED	6-8-95 CAL
SAMPLE NO.	405020	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC	Yes	
NATURAL	No	
Wt. Wet Soil & Pan	(g)	63.58
Wt. Dry Soil & Pan	(g)	63.40
Wt. Lost Moisture	(g)	0.18
Wt. of Pan Only	(g)	3.64
Wt. of Dry Soil	(g)	59.76
Moisture Content	%	0.3
Wt. Hydrom. Sample Wet	(g)	58.24
Wt. Hydrom. Sample Dry	(g)	58.06

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	349.83
Weight of + #10 Before Washing (g)	123.47
Weight of + #10 After Washing (g)	120.27
Weight of - #10 Wet (g)	226.36
Weight of - #10 Dry (g)	228.87
Wt. Total Sample Dry (g)	349.14
Calc. Wt. "W" (g)	88.57
Calc. Mass + #10	30.51

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	0.00	0.00	0.00	0.0	100.0
3/8"	0.00	10.98	10.98	10.98	3.1	96.9
#4	0.00	45.21	45.21	56.19	16.1	83.9
#10	0.00	64.08	64.08	120.27	34.4	65.6
#20	1.58	21.29	19.71	19.71	56.7	43.3
#40	1.59	17.81	16.22	35.93	75.0	25.0
#60	1.56	9.54	7.98	43.91	84.0	16.0
#100	1.58	5.35	3.77	47.68	88.3	11.7
#200	1.57	4.38	2.81	50.49	91.5	8.5

Data entered by: NAA Date: 6-12-95
Data checked by: WEB Date: 6-12-95
FileName: SAH05020

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

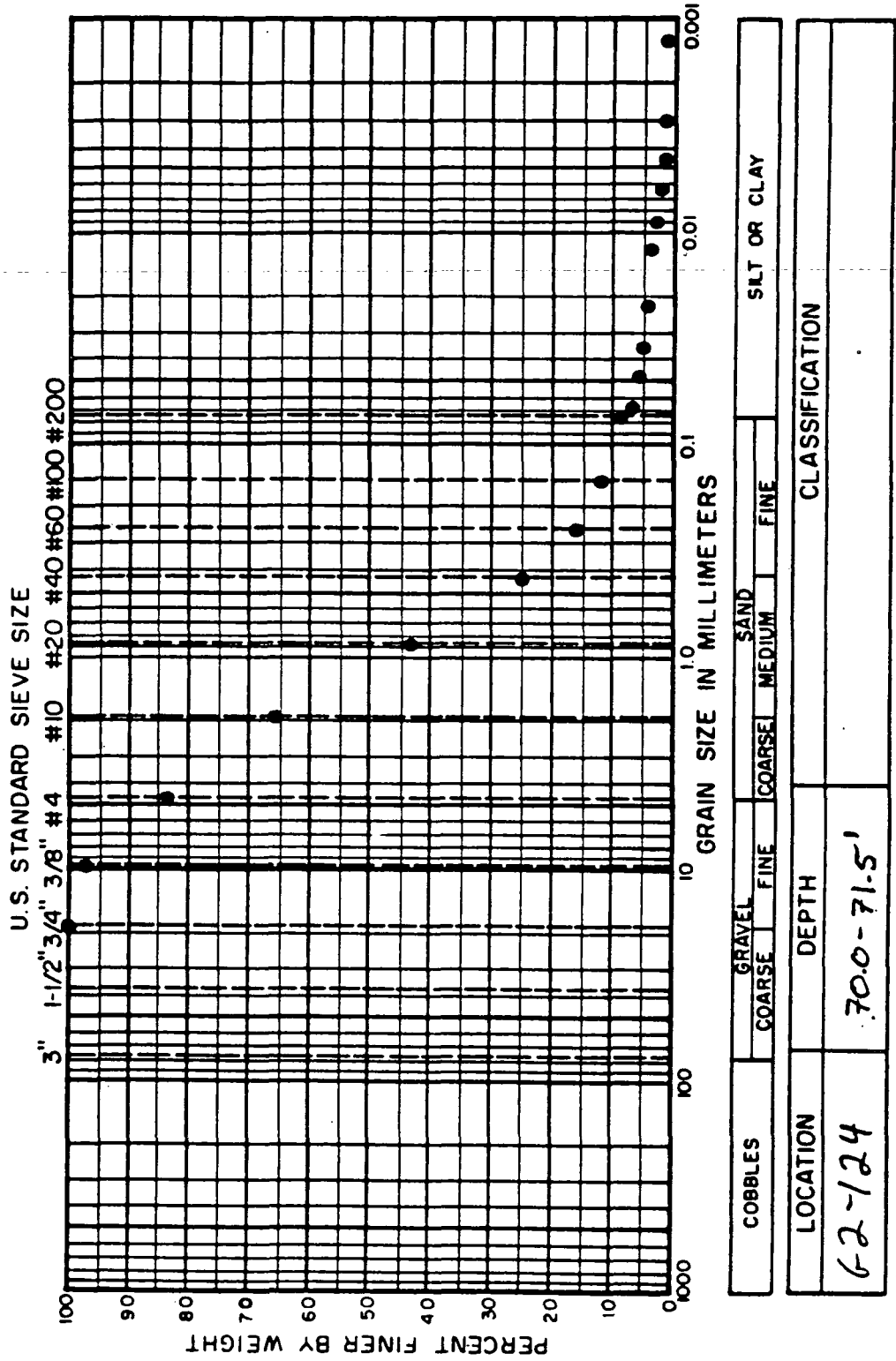
CLIENT SAIC/Parsons PO 140 JOB NO. 2059-13A

BORING NO.	G2-124	SAMPLED	4-13-95 KP, MM
DEPTH	70.0-71.5'	DATE TESTED	6-8-95
SAMPLE NO.	405020	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	24.4
Sp. Gr. of Soil	2.75	Temp. Coef. K	0.01258
Value of "alpha"	0.98	Wt. Dry Sample "W"	88.573
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	4.0		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	11.00	6.00	6.6	6.6	14.49	0.0677
1.0	10.00	5.00	5.5	5.5	14.65	0.0482
2.0	9.50	4.50	5.0	5.0	14.73	0.0341
5.0	9.00	4.00	4.4	4.4	14.81	0.0217
15.0	8.50	3.50	3.9	3.9	14.90	0.0125
30.0	7.50	2.50	2.8	2.8	15.06	0.0089
60.0	7.00	2.00	2.2	2.2	15.14	0.0063
120.0	6.50	1.50	1.7	1.7	15.22	0.0045
250.0	6.50	1.50	1.7	1.7	15.22	0.0031
1303.0	6.50	1.50	1.7	1.7	15.22	0.0014

Grain Diameter = K*(SQRT(L/T))



405020

ADVANCED TERRA TESTING

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13B

BORING NO.	G2-125	SAMPLED	4-17-95 KP, MM
DEPTH	2.5-4.5'	DATE TESTED	5-31-95 REW
SAMPLE NO.	405023	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC	Yes	
NATURAL	No	
Wt. Wet Soil & Pan	(g)	74.40
Wt. Dry Soil & Pan	(g)	72.66
Wt. Lost Moisture	(g)	1.74
Wt. of Pan Only	(g)	3.71
Wt. of Dry Soil	(g)	68.95
Moisture Content	%	2.5
Wt. Hydrom. Sample Wet	(g)	58.44
Wt. Hydrom. Sample Dry	(g)	57.00

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	552.81
Weight of + #10 Before Washing (g)	13.60
Weight of + #10 After Washing (g)	11.13
Weight of - #10 Wet (g)	539.21
Weight of - #10 Dry (g)	528.35
Wt. Total Sample Dry (g)	539.48
Calc. Wt. "W" (g)	58.20
Calc. Mass + #10	1.20

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	0.00	0.00	0.00	0.0	100.0
3/8"	0.00	0.00	0.00	0.00	0.0	100.0
#4	0.00	5.99	5.99	5.99	1.1	98.9
#10	0.00	5.14	5.14	11.13	2.1	97.9
#20	1.57	2.13	0.56	0.56	3.0	97.0
#40	1.57	2.25	0.68	1.24	4.2	95.8
#60	1.58	2.29	0.71	1.95	5.4	94.6
#100	1.58	2.48	0.90	2.85	7.0	93.0
#200	1.56	2.74	1.18	4.03	9.0	91.0

Data entered by: NAA Date: 6-7-95
Data checked by: DSL Date: 6-9-95
FileName:SAH05023

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13B

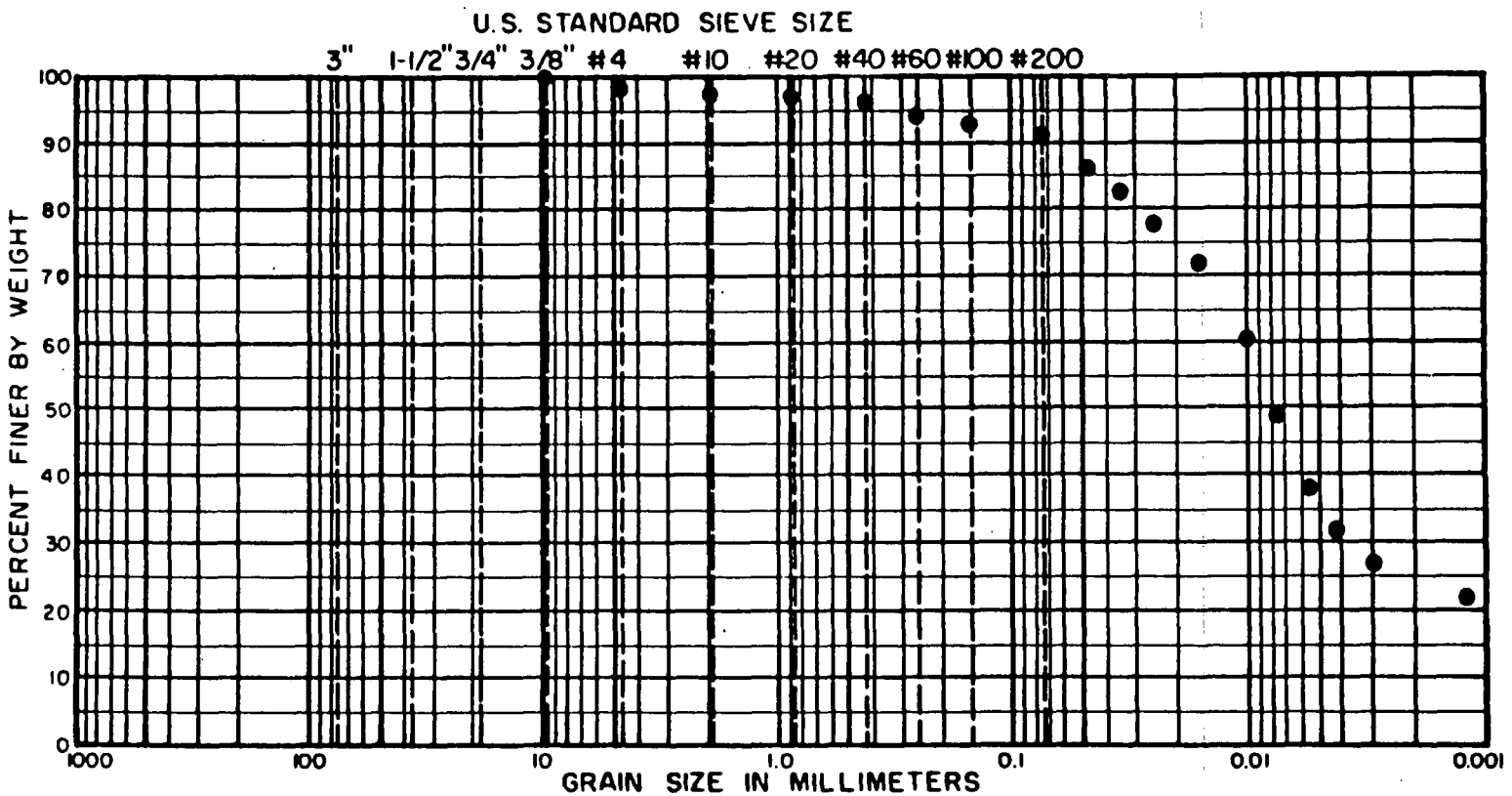
BORING NO.	G2-125	SAMPLED	4-17-95 KP, MM
DEPTH	2.5-4.5'	DATE TESTED	5-31-95 REW
SAMPLE NO.	405023	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	24.4
Sp. Gr. of Soil	2.71	Temp. Coef. K	0.01265
Value of "alpha"	0.99	Wt. Dry Sample "W"	58.201
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	4.5		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	56.00	50.50	85.7	85.7	7.11	0.0477
1.0	54.00	48.50	82.3	82.3	7.43	0.0345
2.0	51.50	46.00	78.1	78.1	7.84	0.0251
5.0	48.00	42.50	72.1	72.1	8.42	0.0164
15.0	41.00	35.50	60.3	60.3	9.57	0.0101
30.0	34.00	28.50	48.4	48.4	10.71	0.0076
60.0	28.00	22.50	38.2	38.2	11.70	0.0056
120.0	24.00	18.50	31.4	31.4	12.35	0.0041
250.0	21.00	15.50	26.3	26.3	12.85	0.0029
1383.0	18.25	12.75	21.6	21.6	13.30	0.0012

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

LOCATION	DEPTH	CLASSIFICATION
62-125	2.5-4.5'	

405023

ADVANCED TERRA TESTING

305

000326

474

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13B

BORING NO.	G2-125	SAMPLED	4-17-95 KP, MM
DEPTH	7.5-9.5'	DATE TESTED	5-26-95 REW
SAMPLE NO.	405026	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC Yes

NATURAL No

Wt. Wet Soil & Pan	(g)	66.65
Wt. Dry Soil & Pan	(g)	66.16
Wt. Lost Moisture	(g)	0.49
Wt. of Pan Only	(g)	3.60
Wt. of Dry Soil	(g)	62.56
Moisture Content	%	0.8

Wt. Hydrom. Sample Wet (g)	55.57
Wt. Hydrom. Sample Dry (g)	55.14

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	653.95
Weight of + #10 Before Washing (g)	57.34
Weight of + #10 After Washing (g)	50.41
Weight of - #10 Wet (g)	596.61
Weight of - #10 Dry (g)	598.85
Wt. Total Sample Dry (g)	649.26
Calc. Wt. "W" (g)	59.78
Calc. Mass + #10	4.64

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	0.00	0.00	0.00	0.0	100.0
3/8"	0.00	0.00	0.00	0.00	0.0	100.0
#4	0.00	19.06	19.06	19.06	2.9	97.1
#10	0.00	31.35	31.35	50.41	7.8	92.2
#20	1.57	4.74	3.17	3.17	13.1	86.9
#40	1.57	4.23	2.66	5.83	17.5	82.5
#60	1.31	3.88	2.57	8.40	21.8	78.2
#100	1.57	4.76	3.19	11.59	27.2	72.8
#200	1.57	5.88	4.31	15.90	34.4	65.6

Data entered by: NAA Date: 6-8-95
Data checked by: DSR Date: 6-5-95
FileName:SAH0526

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13B

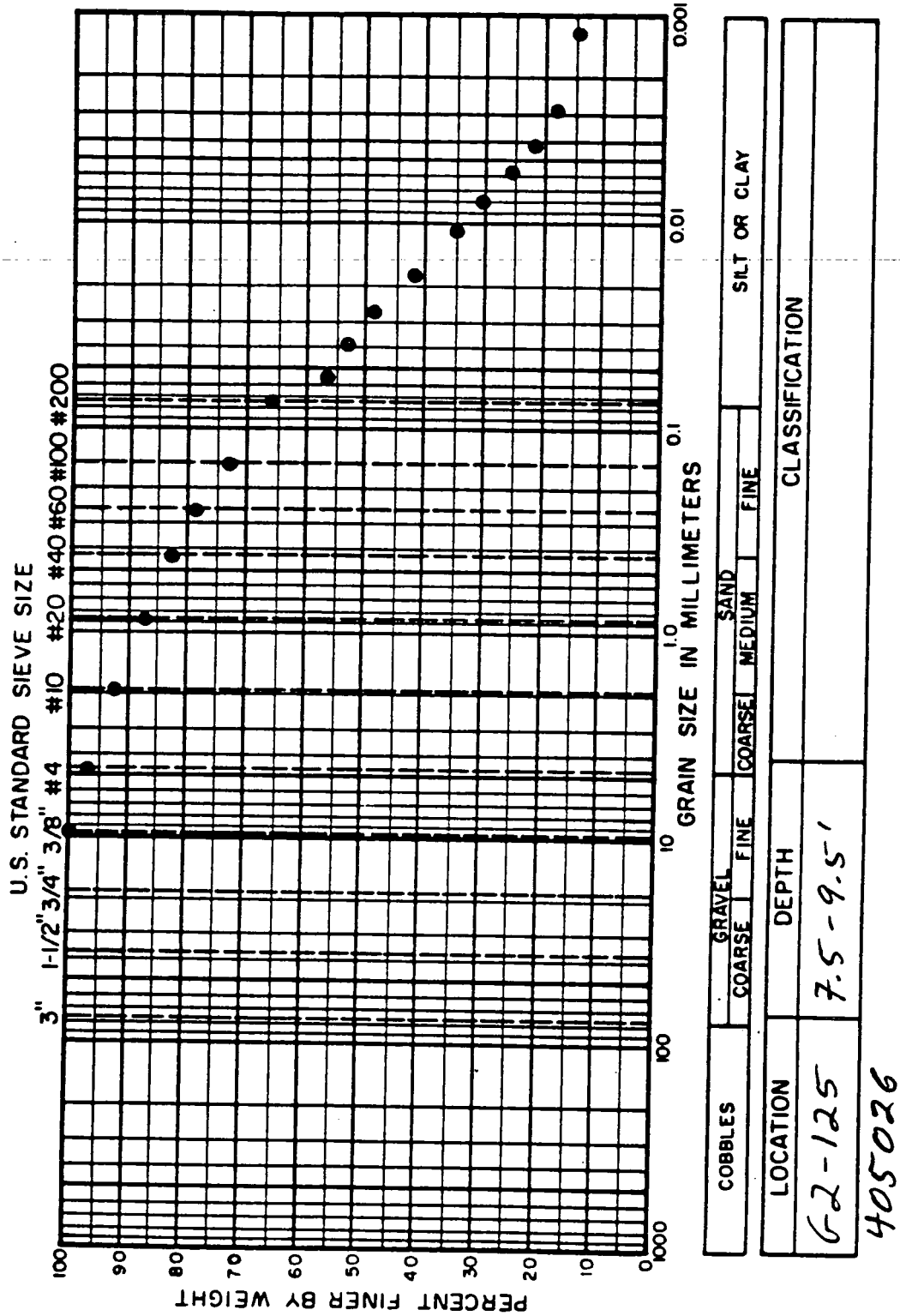
BORING NO.	G2-125	SAMPLED	4-17-95 KP, MM
DEPTH	7.5-9.5'	DATE TESTED	5-26-95 REW
SAMPLE NO.	405026	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	24.4
Sp. Gr. of Soil	2.78	Temp. Coef. K	0.01247
Value of "alpha"	0.97	Wt. Dry Sample "W"	59.776
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	4.5		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	40.00	34.50	56.2	56.2	9.73	0.0550
1.0	38.00	32.50	53.0	53.0	10.06	0.0395
2.0	35.00	29.50	48.1	48.1	10.55	0.0286
5.0	31.00	25.50	41.5	41.5	11.21	0.0187
15.0	27.00	21.50	35.0	35.0	11.86	0.0111
30.0	24.00	18.50	30.1	30.1	12.35	0.0080
60.0	21.00	15.50	25.3	25.3	12.85	0.0058
120.0	19.00	13.50	22.0	22.0	13.17	0.0041
250.0	17.00	11.50	18.7	18.7	13.50	0.0029
1388.0	14.50	9.00	14.7	14.7	13.91	0.0012

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



405026

ADVANCED TERRA TESTING

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13B

BORING NO.	G2-125	SAMPLED	4-17-95 KP, MM
DEPTH	12.5-14.5'	DATE TESTED	5-26-95 REW
SAMPLE NO.	405029	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC Yes

NATURAL No

Wt. Wet Soil & Pan	(g)	87.17
Wt. Dry Soil & Pan	(g)	86.73
Wt. Lost Moisture	(g)	0.44
Wt. of Pan Only	(g)	3.72
Wt. of Dry Soil	(g)	83.01
Moisture Content	%	0.5

Wt. Hydrom. Sample Wet (g)	55.63
Wt. Hydrom. Sample Dry (g)	55.34

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	1506.64
Weight of + #10 Before Washing (g)	128.82
Weight of + #10 After Washing (g)	119.42
Weight of - #10 Wet (g)	1377.82
Weight of - #10 Dry (g)	1379.91
Wt. Total Sample Dry (g)	1499.33

Calc. Wt. "W" (g)	59.96
Calc. Mass + #10	4.63

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	9.24	9.24	9.24	0.6	99.4
3/8"	0.00	16.11	16.11	25.35	1.7	98.3
#4	0.00	29.17	29.17	54.52	3.6	96.4
#10	0.00	61.15	61.15	115.67	7.7	92.3
#20	1.58	5.18	3.60	3.60	13.7	86.3
#40	1.59	4.70	3.11	6.71	18.9	81.1
#60	1.56	4.75	3.19	9.90	24.2	75.8
#100	1.30	5.11	3.81	13.71	30.6	69.4
#200	1.58	6.90	5.32	19.03	39.5	60.5

Data entered by: NAA Date: 6-5-95
Data checked by: DSR Date: 6.5.95
FileName: SAH05029

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

CLIENT SAIC/Parsons PO 140 JOB NO. 2059-13B

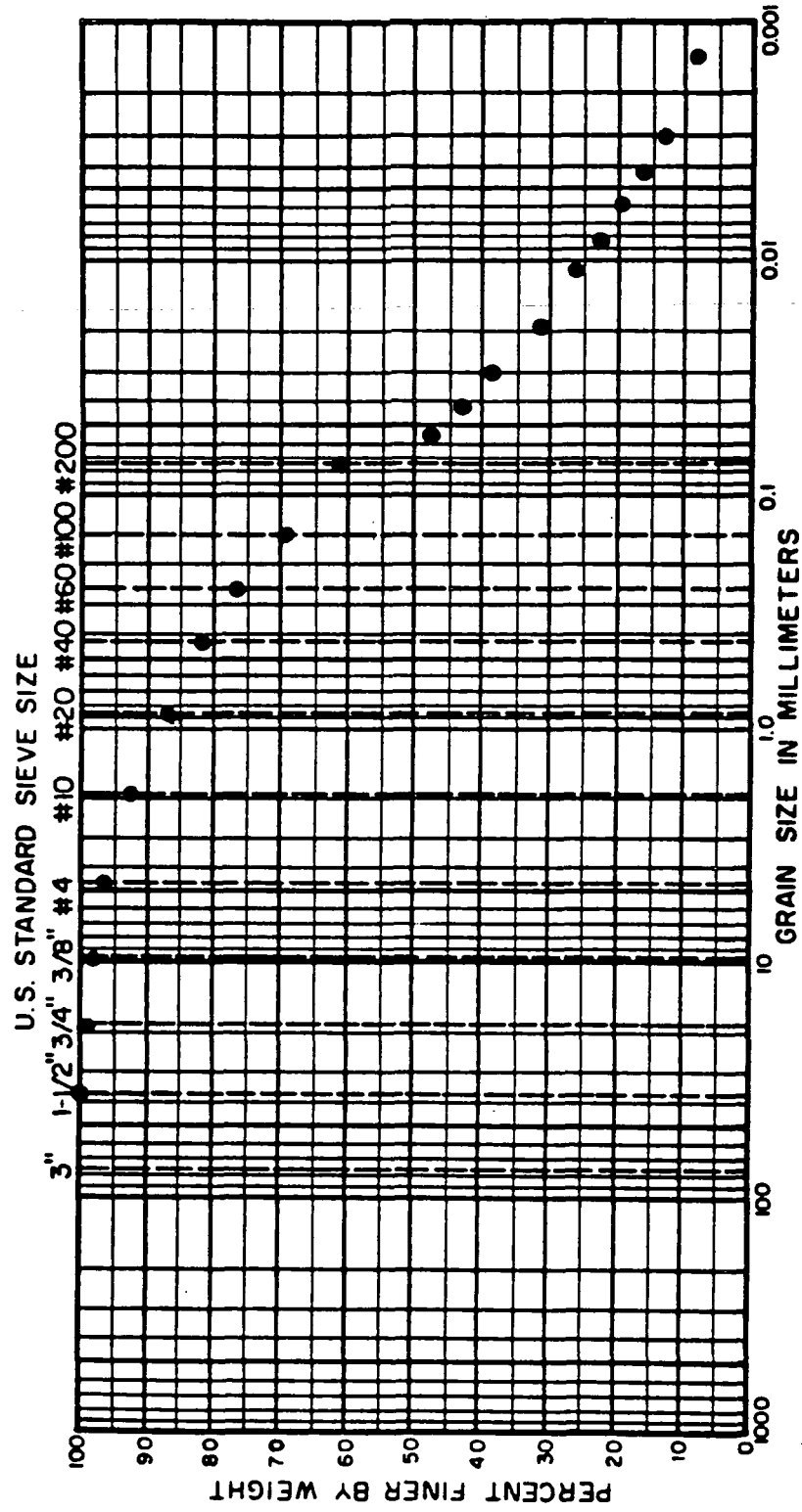
BORING NO.	G2-125	SAMPLED	4-17-95 KP, MM
DEPTH	12.5-14.5'	DATE TESTED	5-26-95 REW
SAMPLE NO.	405029	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	24.4
Sp. Gr. of Soil	2.77	Temp. Coef. K	0.01250
Value of "alpha"	0.98	Wt. Dry Sample "W"	59.965
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	5.0		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	35.00	29.00	47.2	47.2	10.55	0.0574
1.0	32.50	26.50	43.1	43.1	10.96	0.0414
2.0	30.00	24.00	39.1	39.1	11.37	0.0298
5.0	25.00	19.00	30.9	30.9	12.19	0.0195
15.0	22.00	16.00	26.0	26.0	12.68	0.0115
30.0	20.00	14.00	22.8	22.8	13.01	0.0082
60.0	18.00	12.00	19.5	19.5	13.34	0.0059
120.0	16.00	10.00	16.3	16.3	13.67	0.0042
250.0	14.00	8.00	13.0	13.0	13.99	0.0030
1345.0	12.00	6.00	9.8	9.8	14.32	0.0013

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



LOCATION	DEPTH	CLASSIFICATION
G2-125	12.5-14.5'	

405029

ADVANCED TERRA TESTING

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13B

BORING NO.	G2-125	SAMPLED	4-17-95 KP, MM
DEPTH	17.5-19.5'	DATE TESTED	5-31-95 REW
SAMPLE NO.	405033	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC	Yes	
NATURAL	No	
Wt. Wet Soil & Pan	(g)	73.81
Wt. Dry Soil & Pan	(g)	73.38
Wt. Lost Moisture	(g)	0.43
Wt. of Pan Only	(g)	3.69
Wt. of Dry Soil	(g)	69.69
Moisture Content	%	0.6
Wt. Hydrom. Sample Wet	(g)	55.97
Wt. Hydrom. Sample Dry	(g)	55.62

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	950.29
Weight of + #10 Before Washing (g)	58.52
Weight of + #10 After Washing (g)	54.36
Weight of - #10 Wet (g)	891.77
Weight of - #10 Dry (g)	890.44
Wt. Total Sample Dry (g)	944.80
Calc. Wt. "W" (g)	59.02
Calc. Mass + #10	3.40

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	0.00	0.00	0.00	0.0	100.0
3/8"	0.00	21.18	21.18	21.18	2.2	97.8
#4	0.00	9.12	9.12	30.30	3.2	96.8
#10	0.00	24.06	24.06	54.36	5.8	94.2
#20	1.57	4.25	2.68	2.68	10.3	89.7
#40	1.58	4.20	2.62	5.30	14.7	85.3
#60	1.56	4.28	2.72	8.02	19.3	80.7
#100	1.58	4.25	2.67	10.69	23.9	76.1
#200	1.57	5.57	4.00	14.69	30.6	69.4

Data entered by: NAA Date: 6-6-95
Data checked by: DSR Date: 6-7-95
FileName:SAH05033

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13B

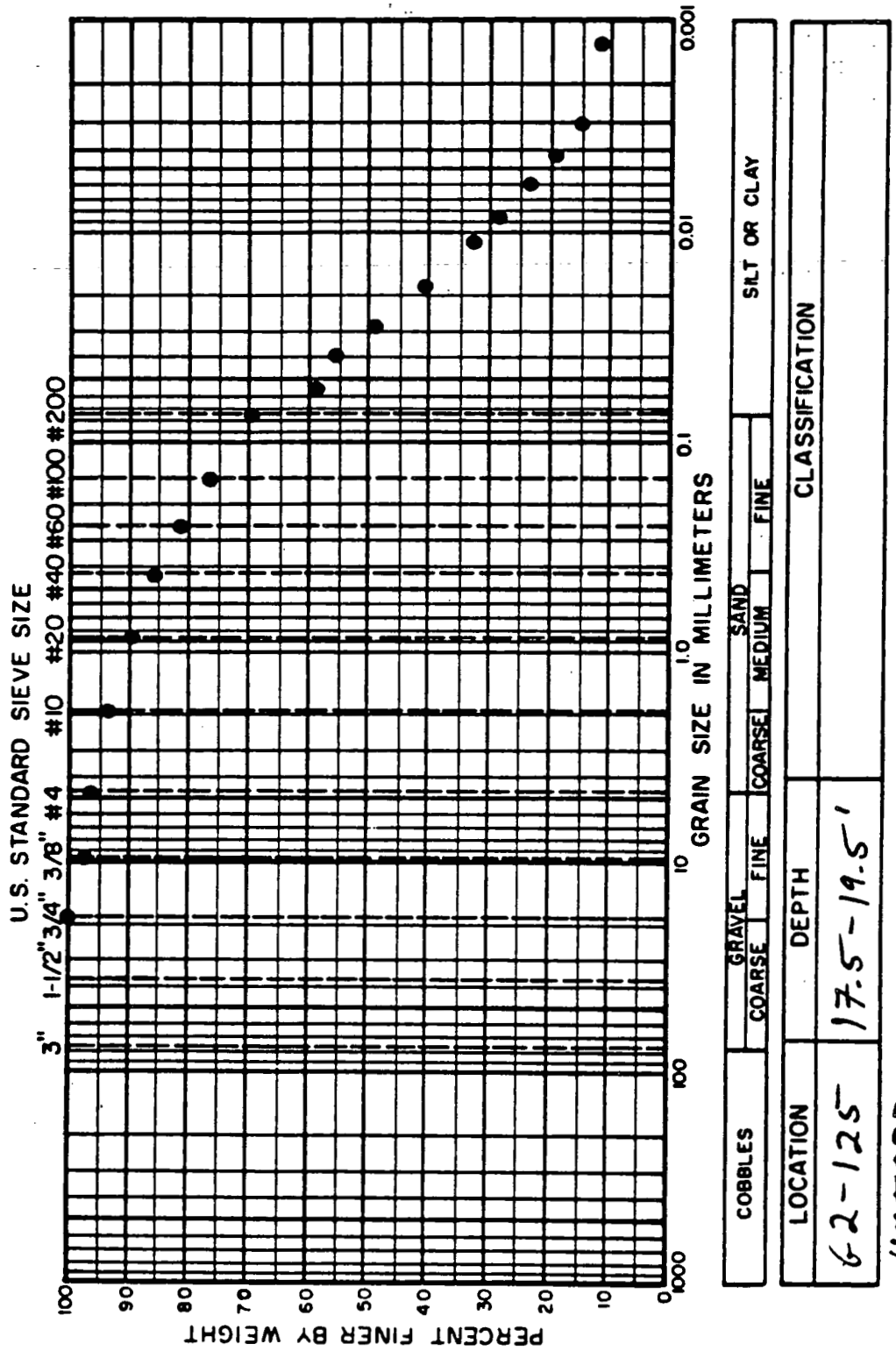
BORING NO.	G2-125	SAMPLED	4-17-95 KP, MM
DEPTH	17.5-19.5'	DATE TESTED	5-31-95 REW
SAMPLE NO.	405033	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	24.4
Sp. Gr. of Soil	2.71	Temp. Coef. K	0.01265
Value of "alpha"	0.99	Wt. Dry Sample "W"	59.020
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	5.0		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Hydrometer Reading Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	41.00	35.00	58.6	58.6	9.57	0.0553
1.0	39.00	33.00	55.2	55.2	9.89	0.0398
2.0	35.00	29.00	48.5	48.5	10.55	0.0291
5.0	30.00	24.00	40.2	40.2	11.37	0.0191
15.0	26.00	20.00	33.5	33.5	12.03	0.0113
30.0	23.00	17.00	28.5	28.5	12.52	0.0082
60.0	20.00	14.00	23.4	23.4	13.01	0.0059
120.0	17.50	11.50	19.3	19.3	13.42	0.0042
250.0	15.00	9.00	15.1	15.1	13.83	0.0030
1320.0	13.00	7.00	11.7	11.7	14.16	0.0013

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



ADVANCED TERRA TESTING

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13D

BORING NO.	G2-126	SAMPLED	4-24-95 JM
DEPTH	7.5-9.5'	DATE TESTED	6-8-95 REW
SAMPLE NO.	404768	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC Yes

NATURAL No

Wt. Wet Soil & Pan	(g)	114.32
Wt. Dry Soil & Pan	(g)	113.26
Wt. Lost Moisture	(g)	1.06
Wt. of Pan Only	(g)	3.85
Wt. of Dry Soil	(g)	109.41
Moisture Content	%	1.0

Wt. Hydrom. Sample Wet (g)	55.62
Wt. Hydrom. Sample Dry (g)	55.08

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	1340.76
Weight of + #10 Before Washing (g)	103.25
Weight of + #10 After Washing (g)	92.42
Weight of - #10 Wet (g)	1237.51
Weight of - #10 Dry (g)	1236.36
Wt. Total Sample Dry (g)	1328.78
Calc. Wt. "W" (g)	59.20
Calc. Mass + #10	4.12

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	0.00	0.00	0.00	0.0	100.0
3/8"	0.00	18.49	18.49	18.49	1.4	98.6
#4	0.00	26.70	26.70	45.19	3.4	96.6
#10	0.00	47.23	47.23	92.42	7.0	93.0
#20	1.60	4.47	2.87	2.87	11.8	88.2
#40	1.58	4.37	2.79	5.66	16.5	83.5
#60	1.56	3.92	2.36	8.02	20.5	79.5
#100	1.32	4.39	3.07	11.09	25.7	74.3
#200	1.57	5.65	4.08	15.17	32.6	67.4

Data entered by: NAA Date: 6-16-95
Data checked by: SR Date: 6-16-95
FileName:SAH0768

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

CLIENT SAIC/Parsons PO 140 JOB NO. 2059-13D

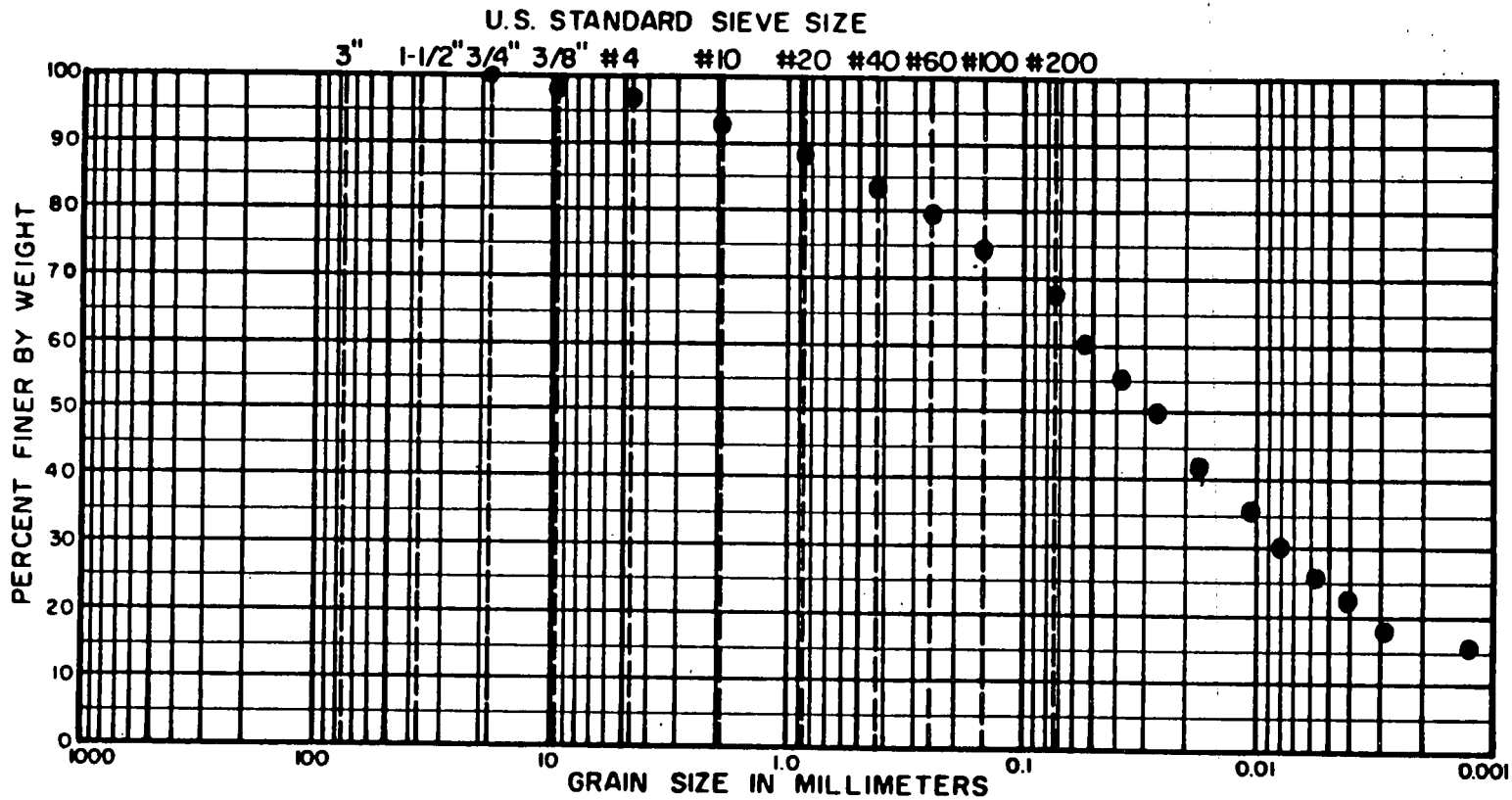
BORING NO.	G2-126	SAMPLED	4-24-95 JM
DEPTH	7.5-9.5'	DATE TESTED	6-8-95 REW
SAMPLE NO.	404768	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	24.6
Sp. Gr. of Soil	2.78	Temp. Coef. K	0.01244
Value of "alpha"	0.97	Wt. Dry Sample "W"	59.200
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	4.5		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	42.00	36.50	60.1	60.1	9.40	0.0539
1.0	39.00	33.50	55.1	55.1	9.89	0.0391
2.0	36.00	30.50	50.2	50.2	10.39	0.0283
5.0	31.00	25.50	42.0	42.0	11.21	0.0186
15.0	27.00	21.50	35.4	35.4	11.86	0.0111
30.0	24.00	18.50	30.4	30.4	12.35	0.0080
60.0	21.00	15.50	25.5	25.5	12.85	0.0058
120.0	19.00	13.50	22.2	22.2	13.17	0.0041
250.0	17.00	11.50	18.9	18.9	13.50	0.0029
1205.0	15.00	9.50	15.6	15.6	13.83	0.0013

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

LOCATION	DEPTH	CLASSIFICATION
62-126	7.5-9.5'	

404768

ADVANCED TERRA TESTING

317

000388

474

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13D

BORING NO.	G2-126	SAMPLED	4-24-95 JM
DEPTH	12.5-14.5'	DATE TESTED	6-8-95 CAL
SAMPLE NO.	404771	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC Yes

NATURAL No

Wt. Wet Soil & Pan	(g)	57.17
Wt. Dry Soil & Pan	(g)	56.73
Wt. Lost Moisture	(g)	0.44
Wt. of Pan Only	(g)	3.58
Wt. of Dry Soil	(g)	53.15
Moisture Content	%	0.8

Wt. Hydrom. Sample Wet (g)	57.82
Wt. Hydrom. Sample Dry (g)	57.35

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	1316.06
Weight of + #10 Before Washing (g)	185.58
Weight of + #10 After Washing (g)	173.24
Weight of - #10 Wet (g)	1130.48
Weight of - #10 Dry (g)	1133.44
Wt. Total Sample Dry (g)	1306.68
Calc. Wt. "W" (g)	66.11
Calc. Mass + #10	8.77

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	25.96	25.96	25.96	2.0	98.0
3/8"	0.00	41.84	41.84	67.80	5.2	94.8
#4	0.00	43.43	43.43	111.23	8.5	91.5
#10	0.00	62.01	62.01	173.24	13.3	86.7
#20	1.58	5.01	3.43	3.43	18.4	81.6
#40	1.59	4.18	2.59	6.02	22.4	77.6
#60	1.58	4.08	2.50	8.52	26.1	73.9
#100	1.59	4.26	2.67	11.19	30.2	69.8
#200	1.58	5.36	3.78	14.97	35.9	64.1

Data entered by: NAA Date: 6-12-95
Data checked by: WEB Date: 6-12-95
FileName:SAH0771

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

CLIENT SAIC/Parsons PO 140 JOB NO. 2059-13D

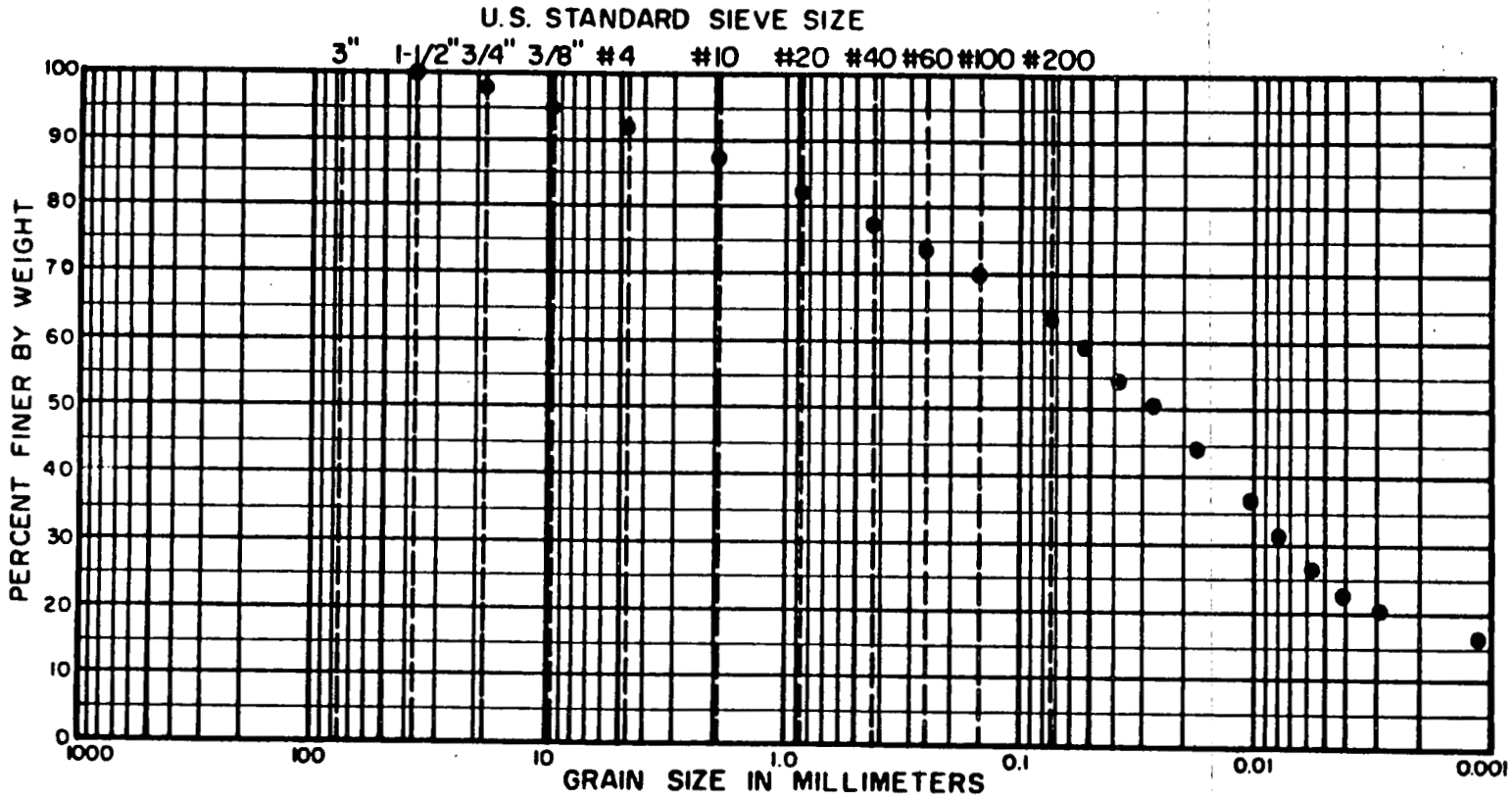
BORING NO.	G2-126	SAMPLED	4-24-95 JM
DEPTH	12.5-14.5'	DATE TESTED	6-8-95 CAL
SAMPLE NO.	404771	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	24.5
Sp. Gr. of Soil	2.76	Temp. Coef. K	0.01253
Value of "alpha"	0.98	Wt. Dry Sample "W"	66.115
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	4.0		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	45.00	40.00	59.2	59.2	8.91	0.0529
1.0	42.00	37.00	54.7	54.7	9.40	0.0384
2.0	39.00	34.00	50.3	50.3	9.89	0.0279
5.0	35.00	30.00	44.4	44.4	10.55	0.0182
15.0	30.00	25.00	37.0	37.0	11.37	0.0109
30.0	26.00	21.00	31.1	31.1	12.03	0.0079
60.0	23.00	18.00	26.6	26.6	12.52	0.0057
120.0	20.50	15.50	22.9	22.9	12.93	0.0041
250.0	18.50	13.50	20.0	20.0	13.26	0.0029
1899.0	16.00	11.00	16.3	16.3	13.67	0.0011

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

LOCATION	DEPTH	CLASSIFICATION
G2-126	12.5-14.5'	

404771

ADVANCED TERRA TESTING

320

000391

474

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13D

BORING NO.	G2-126	SAMPLED	4-24-95 JM
DEPTH	15.0-17.0'	DATE TESTED	6-1-95 REW
SAMPLE NO.	404773	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC Yes

NATURAL No

Wt. Wet Soil & Pan	(g)	93.42
Wt. Dry Soil & Pan	(g)	92.55
Wt. Lost Moisture	(g)	0.87
Wt. of Pan Only	(g)	3.78
Wt. of Dry Soil	(g)	88.77
Moisture Content	%	1.0

Wt. Hydrom. Sample Wet (g)	57.94
Wt. Hydrom. Sample Dry (g)	57.37

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	2943.79
Weight of + #10 Before Washing (g)	644.38
Weight of + #10 After Washing (g)	613.87
Weight of - #10 Wet (g)	2299.41
Weight of - #10 Dry (g)	2307.31
Wt. Total Sample Dry (g)	2921.18
Calc. Wt. "W" (g)	72.64
Calc. Mass + #10	15.26

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	256.26	256.26	256.26	8.8	91.2
3/8"	0.00	126.70	126.70	382.96	13.1	86.9
#4	0.00	109.09	109.09	492.05	16.8	83.2
#10	0.00	121.82	121.82	613.87	21.0	79.0
#20	1.57	4.46	2.89	2.89	25.0	75.0
#40	1.57	4.04	2.47	5.36	28.4	71.6
#60	1.61	3.93	2.32	7.68	31.6	68.4
#100	1.32	4.17	2.85	10.53	35.5	64.5
#200	1.58	5.29	3.71	14.24	40.6	59.4

Data entered by: NAA Date: 5-30-95
Data checked by: DSL Date: 6-5-95
FileName:SAH0773

ADVANCED TERRA TESTING, INC.

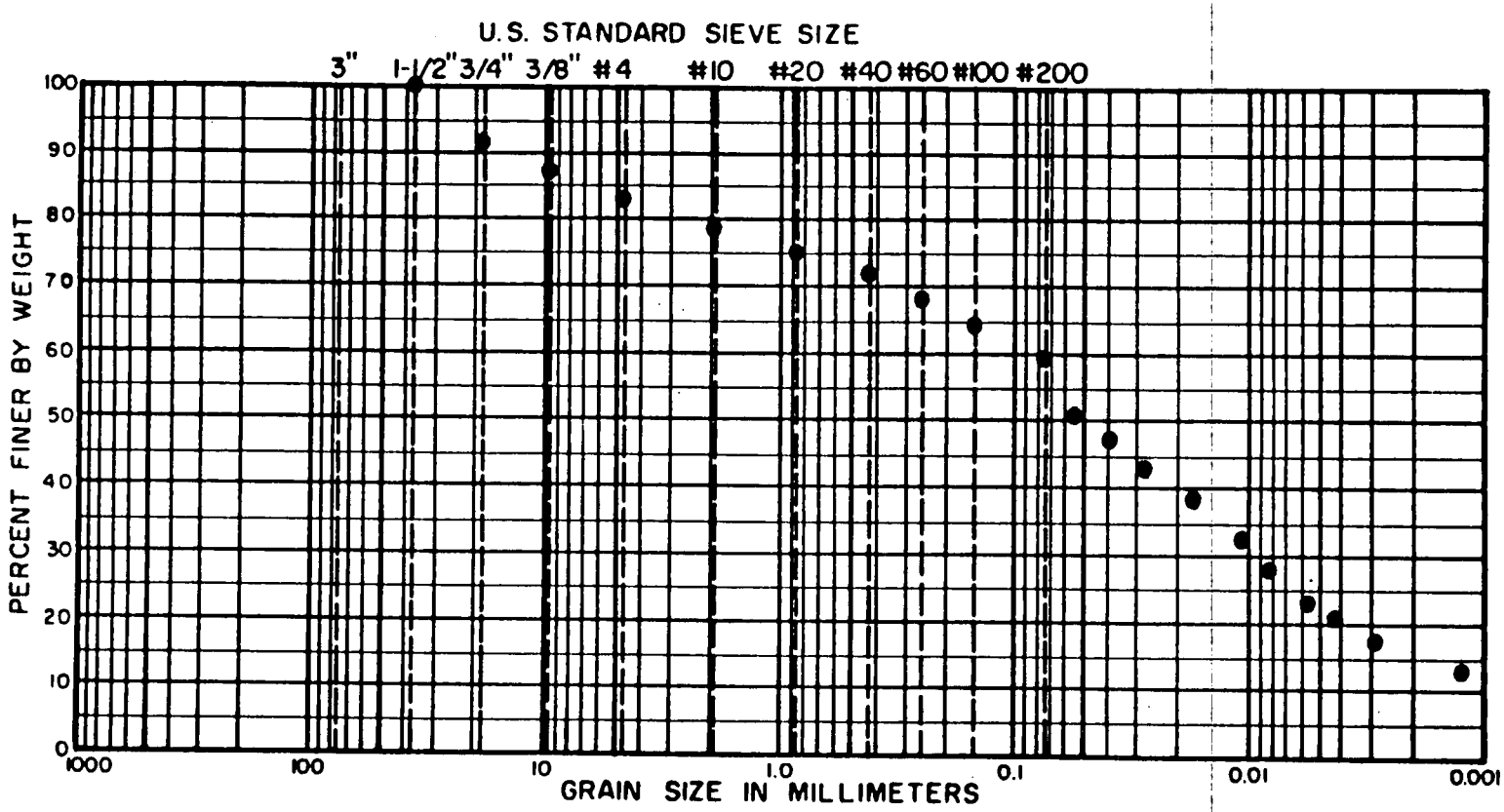
HYDROMETER ANALYSIS - SEDIMENTATION DATA

CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13D
BORING NO.	G2-126	SAMPLED	4-24-95 JM
DEPTH	15.0-17.0'	DATE TESTED	6-1-95 REW
SAMPLE NO.	404773	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	24.6
Sp. Gr. of Soil	2.69	Temp. Coef. K	0.01277
Value of "alpha"	0.99	Wt. Dry Sample "W"	72.638
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	5.0		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	43.00	37.00	50.5	50.5	9.24	0.0549
1.0	41.00	35.00	47.8	47.8	9.57	0.0395
2.0	38.00	32.00	43.7	43.7	10.06	0.0286
5.0	34.00	28.00	38.2	38.2	10.71	0.0187
15.0	30.00	24.00	32.8	32.8	11.37	0.0111
30.0	26.50	20.50	28.0	28.0	11.94	0.0081
60.0	23.00	17.00	23.2	23.2	12.52	0.0058
120.0	21.00	15.00	20.5	20.5	12.85	0.0042
250.0	19.00	13.00	17.8	17.8	13.17	0.0029
1320.0	16.00	10.00	13.7	13.7	13.67	0.0013

Grain Diameter = K*(SQRT(L/T))



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

LOCATION	DEPTH	CLASSIFICATION
G2-126	15.0-17.0'	

404773

323

ADVANCED TERRA TESTING

000394

474

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13D

BORING NO.	G2-126	SAMPLED	4-24-95 JM
DEPTH	25.0-27.0'	DATE TESTED	6-8-95 REW
SAMPLE NO.	404778	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC	Yes	
NATURAL	No	
Wt. Wet Soil & Pan	(g)	64.07
Wt. Dry Soil & Pan	(g)	63.46
Wt. Lost Moisture	(g)	0.61
Wt. of Pan Only	(g)	3.65
Wt. of Dry Soil	(g)	59.81
Moisture Content	%	1.0
Wt. Hydrom. Sample Wet	(g)	57.92
Wt. Hydrom. Sample Dry	(g)	57.34

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	1222.82
Weight of + #10 Before Washing (g)	216.82
Weight of + #10 After Washing (g)	197.24
Weight of - #10 Wet (g)	1006.00
Weight of - #10 Dry (g)	1015.23
Wt. Total Sample Dry (g)	1212.47
Calc. Wt. "W" (g)	68.47
Calc. Mass + #10	11.14

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	53.46	53.46	53.46	4.4	95.6
3/8"	0.00	39.99	39.99	93.45	7.7	92.3
#4	0.00	44.85	44.85	138.30	11.4	88.6
#10	0.00	58.94	58.94	197.24	16.3	83.7
#20	1.58	4.58	3.00	3.00	20.6	79.4
#40	1.58	4.10	2.52	5.52	24.3	75.7
#60	1.57	3.76	2.19	7.71	27.5	72.5
#100	1.57	4.07	2.50	10.21	31.2	68.8
#200	1.57	4.89	3.32	13.53	36.0	64.0

NOTE: One 2" rock was omitted from the test portion

Data entered by: NAA Date: 6-16-95
Data checked by: SR Date: 6-16-95
FileName: SAH0778

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

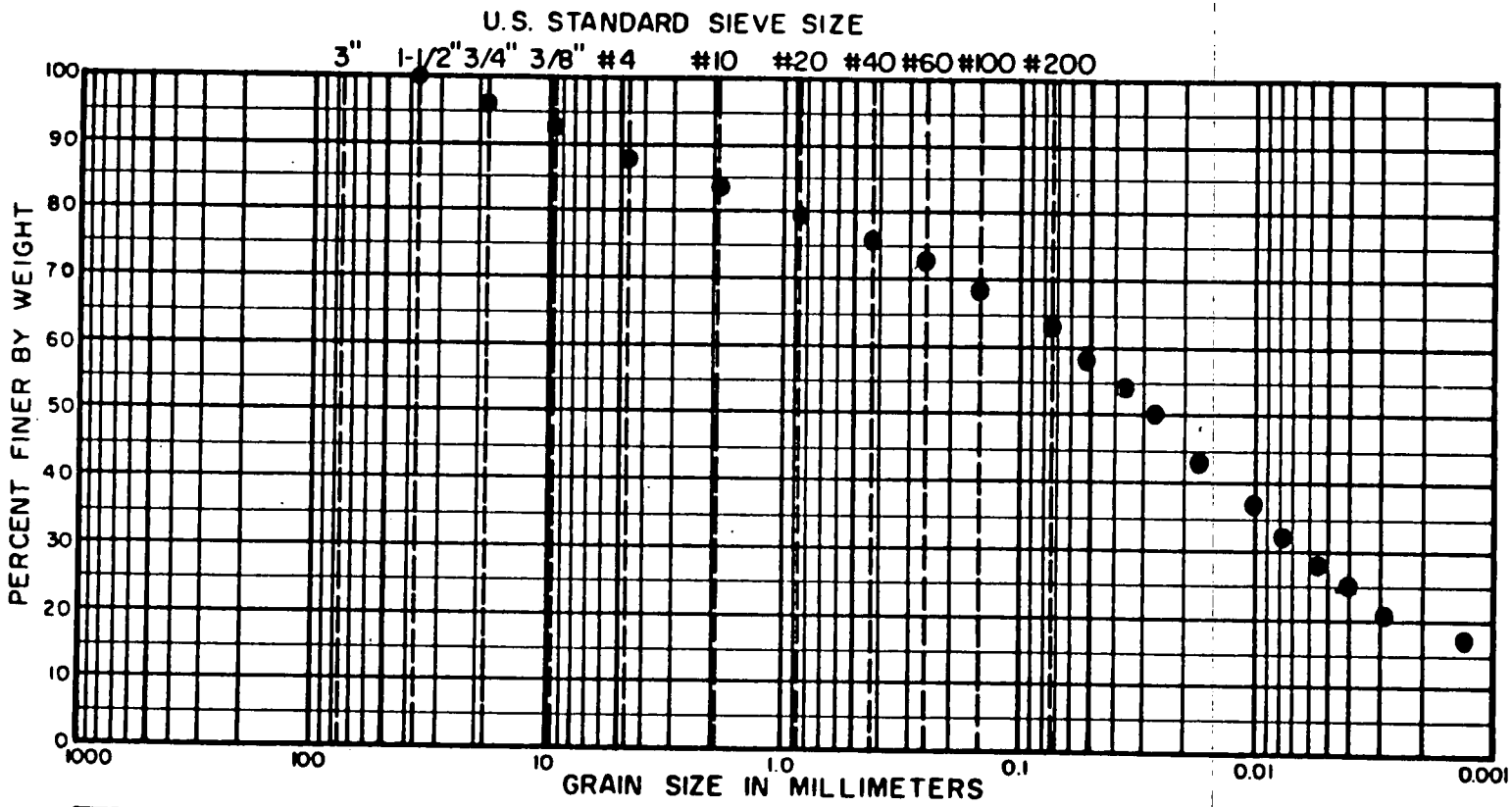
CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13D
BORING NO.	G2-126	SAMPLED	4-24-95 JM
DEPTH	25.0-27.0'	DATE TESTED	6-8-95 REW
SAMPLE NO.	404778	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	25.1
Sp. Gr. of Soil	2.74	Temp. Coef. K	0.01254
Value of "alpha"	0.98	Wt. Dry Sample "W"	68.474
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	4.5		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	46.00	40.50	58.1	58.1	8.75	0.0525
1.0	43.50	38.00	54.5	54.5	9.16	0.0380
2.0	40.25	34.75	49.8	49.8	9.69	0.0276
5.0	36.00	30.50	43.7	43.7	10.39	0.0181
15.0	31.25	25.75	36.9	36.9	11.17	0.0108
30.0	28.00	22.50	32.3	32.3	11.70	0.0078
60.0	25.50	20.00	28.7	28.7	12.11	0.0056
120.0	23.00	17.50	25.1	25.1	12.52	0.0041
250.0	20.00	14.50	20.8	20.8	13.01	0.0029
1127.0	18.00	12.50	17.9	17.9	13.34	0.0014

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

LOCATION	DEPTH	CLASSIFICATION
G2-126	25.0-27.0'	

704778

ADVANCED TERRA TESTING

326

000397

474

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13D

BORING NO.	G2-126	SAMPLED	5-24-95 JM
DEPTH	35.0-37.0'	DATE TESTED	6-8-95 CAL
SAMPLE NO.	404783	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC	Yes	
NATURAL	No	
Wt. Wet Soil & Pan	(g)	76.06
Wt. Dry Soil & Pan	(g)	75.58
Wt. Lost Moisture	(g)	0.48
Wt. of Pan Only	(g)	3.77
Wt. of Dry Soil	(g)	71.81
Moisture Content	%	0.7
Wt. Hydrom. Sample Wet	(g)	59.59
Wt. Hydrom. Sample Dry	(g)	59.19

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	1806.71
Weight of + #10 Before Washing (g)	209.99
Weight of + #10 After Washing (g)	199.17
Weight of - #10 Wet (g)	1596.72
Weight of - #10 Dry (g)	1596.87
Wt. Total Sample Dry (g)	1796.04
Calc. Wt. "W" (g)	66.57
Calc. Mass + #10	7.38

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	0.00	0.00	0.00	0.0	100.0
3/8"	0.00	52.86	52.86	52.86	2.9	97.1
#4	0.00	68.93	68.93	121.79	6.8	93.2
#10	0.00	77.38	77.38	199.17	11.1	88.9
#20	1.57	4.64	3.07	3.07	15.7	84.3
#40	1.58	4.16	2.58	5.65	19.6	80.4
#60	1.58	4.12	2.54	8.19	23.4	76.6
#100	1.58	4.60	3.02	11.21	27.9	72.1
#200	1.57	5.33	3.76	14.97	33.6	66.4

Data entered by: NAA Date: 6-8-95
Data checked by: WEB Date: 6-15-95
FileName:SAH0783

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

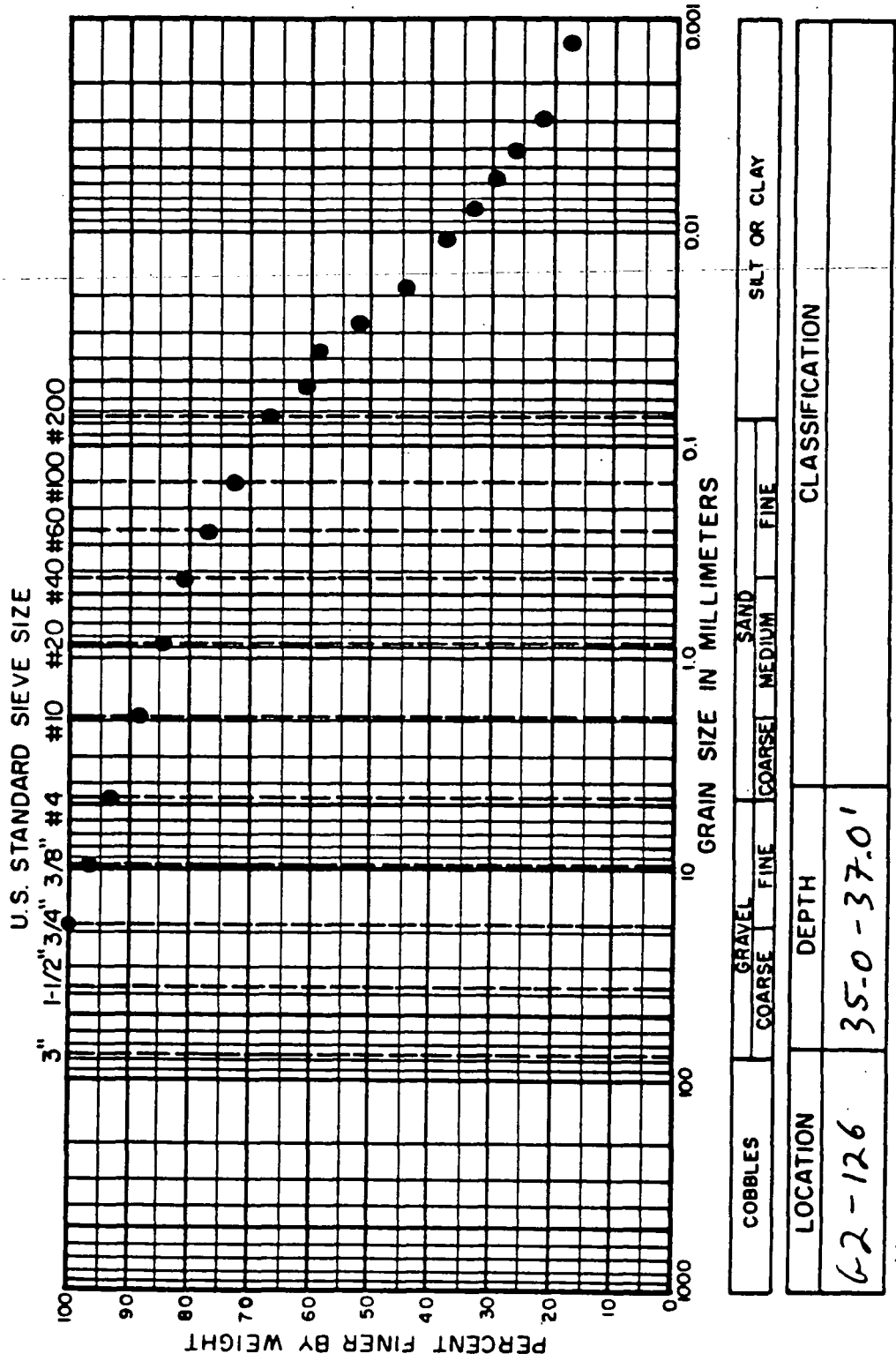
CLIENT SAIC/Parsons PO 140 JOB NO. 2059-13D

BORING NO.	G2-126	SAMPLED	5-24-95 JM
DEPTH	35.0-37.0'	DATE TESTED	6-8-95 CAL
SAMPLE NO.	404783	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	24.4
Sp. Gr. of Soil	2.74	Temp. Coef. K	0.01263
Value of "alpha"	0.98	Wt. Dry Sample "W"	66.573
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	4.0		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	46.00	41.00	60.5	60.5	8.75	0.0528
1.0	44.50	39.50	58.3	58.3	8.99	0.0379
2.0	40.00	35.00	51.6	51.6	9.73	0.0279
5.0	35.00	30.00	44.3	44.3	10.55	0.0184
15.0	30.50	25.50	37.6	37.6	11.29	0.0110
30.0	27.50	22.50	33.2	33.2	11.78	0.0079
60.0	25.00	20.00	29.5	29.5	12.19	0.0057
120.0	22.50	17.50	25.8	25.8	12.60	0.0041
250.0	20.00	15.00	22.1	22.1	13.01	0.0029
1317.0	17.00	12.00	17.7	17.7	13.50	0.0013

Grain Diameter = K*(SQRT(L/T))



404783

ADVANCED TERRA TESTING

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13L

BORING NO.	G2-126	SAMPLED	4-25-95 MG
DEPTH	40.0-41.5'	DATE TESTED	6-22-95 RW, DPM
SAMPLE NO.	404785	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC Yes

NATURAL No

Wt. Wet Soil & Pan	(g)	61.18
Wt. Dry Soil & Pan	(g)	60.93
Wt. Lost Moisture	(g)	0.25
Wt. of Pan Only	(g)	3.69
Wt. of Dry Soil	(g)	57.24
Moisture Content	%	0.4

Wt. Hydrom. Sample Wet (g)	59.26
Wt. Hydrom. Sample Dry (g)	59.01

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	573.02
Weight of + #10 Before Washing (g)	12.73
Weight of + #10 After Washing (g)	11.40
Weight of - #10 Wet (g)	560.29
Weight of - #10 Dry (g)	559.18
Wt. Total Sample Dry (g)	570.58
Calc. Wt. "W" (g)	60.21
Calc. Mass + #10	1.20

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	0.00	0.00	0.00	0.0	100.0
3/8"	0.00	5.92	5.92	5.92	1.0	99.0
#4	0.00	1.31	1.31	7.23	1.3	98.7
#10	0.00	4.17	4.17	11.40	2.0	98.0
#20	1.56	2.42	0.86	0.86	3.4	96.6
#40	1.57	2.90	1.33	2.19	5.6	94.4
#60	1.56	3.22	1.66	3.85	8.4	91.6
#100	1.57	3.45	1.88	5.73	11.5	88.5
#200	1.57	4.03	2.46	8.19	15.6	84.4

Data entered by: NAA Date: 6-28-95
Data checked by: cal Date: 6-29-95
FileName:SAH0785

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

CLIENT SAIC/Parsons PO 140 JOB NO. 2059-13L

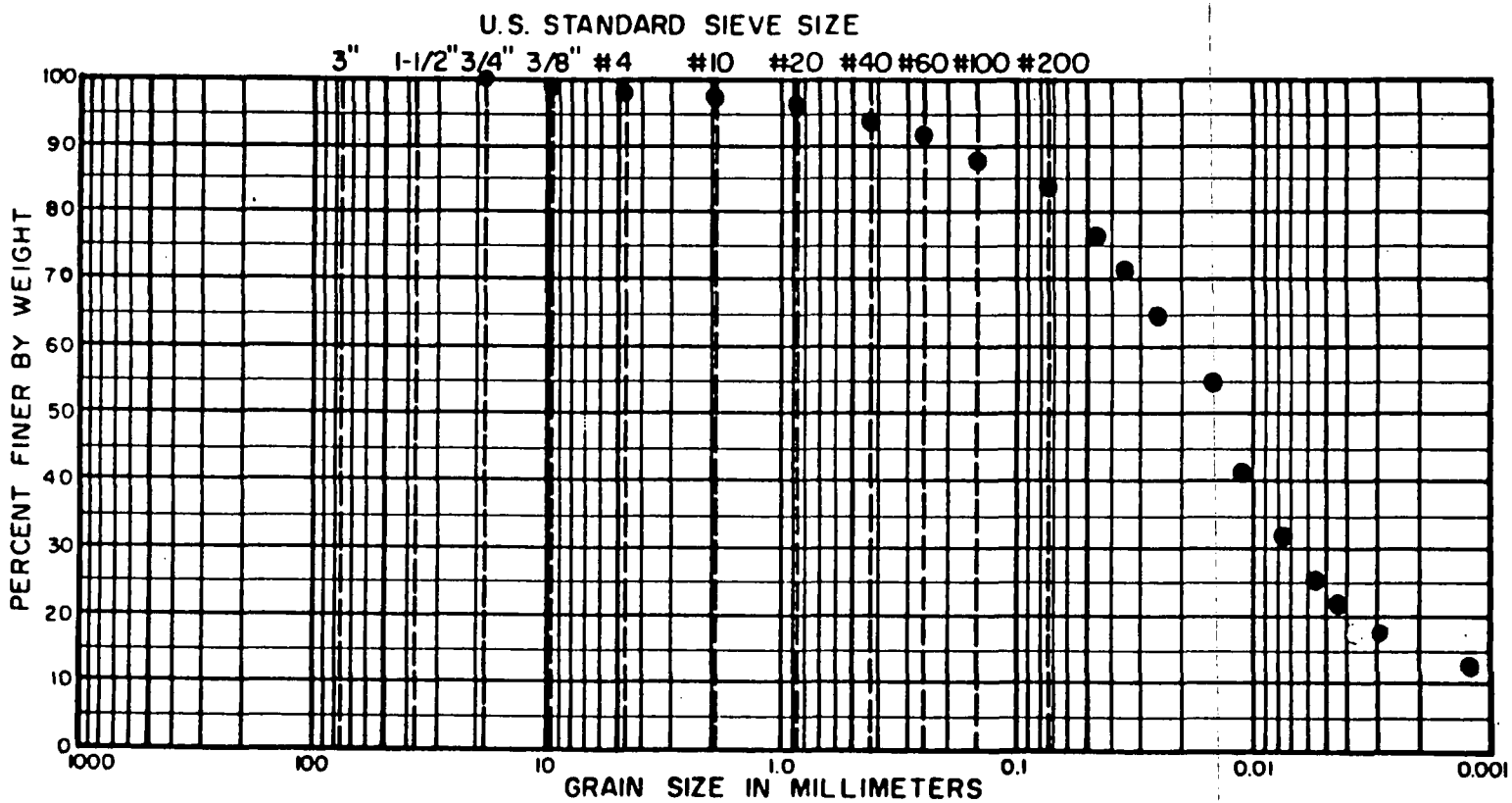
BORING NO.	G2-126	SAMPLED	4-25-95 MG
DEPTH	40.0-41.5'	DATE TESTED	6-22-95 RW, DPM
SAMPLE NO.	404785	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	27.4
Sp. Gr. of Soil	2.73	Temp. Coef. K	0.01223
Value of "alpha"	0.98	Wt. Dry Sample "W"	60.209
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	4.5		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	52.00	46.50	76.0	76.0	7.76	0.0482
1.0	49.00	43.50	71.1	71.1	8.25	0.0351
2.0	45.25	39.75	65.0	65.0	8.87	0.0258
5.0	39.50	34.00	55.6	55.6	9.81	0.0171
15.0	30.50	25.00	40.9	40.9	11.29	0.0106
30.0	25.25	19.75	32.3	32.3	12.15	0.0078
60.0	21.00	15.50	25.3	25.3	12.85	0.0057
120.0	19.00	13.50	22.1	22.1	13.17	0.0041
250.0	16.00	10.50	17.2	17.2	13.67	0.0029
1435.0	13.50	8.00	13.1	13.1	14.08	0.0012

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

LOCATION	DEPTH	CLASSIFICATION
G2-126	40-41.5'	

404785

ADVANCED TERRA TESTING

332

000403

74

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13L

BORING NO.	G2-126	SAMPLED	4-25-95 MG
DEPTH	45.0-46.5'	DATE TESTED	6-9-95 RW, REW
SAMPLE NO.	404786	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC Yes

NATURAL No

Wt. Wet Soil & Pan	(g)	68.03
Wt. Dry Soil & Pan	(g)	67.95
Wt. Lost Moisture	(g)	0.08
Wt. of Pan Only	(g)	3.80
Wt. of Dry Soil	(g)	64.15
Moisture Content	%	0.1

Wt. Hydrom. Sample Wet (g)	58.64
Wt. Hydrom. Sample Dry (g)	58.57

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	539.62
Weight of + #10 Before Washing (g)	55.15
Weight of + #10 After Washing (g)	49.02
Weight of - #10 Wet (g)	487.47
Weight of - #10 Dry (g)	492.99
Wt. Total Sample Dry (g)	542.01
Calc. Wt. "W" (g)	64.39
Calc. Mass + #10	5.82

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	0.00	0.00	0.00	0.0	100.0
3/8"	0.00	9.48	9.48	9.48	1.7	98.3
#4	0.00	14.57	14.57	24.05	4.4	95.6
#10	0.00	24.97	24.97	49.02	9.0	91.0
#20	1.59	9.27	7.68	7.68	21.0	79.0
#40	1.58	17.47	15.89	23.57	45.6	54.4
#60	1.57	12.14	10.57	34.14	62.1	37.9
#100	1.58	7.83	6.25	40.39	71.8	28.2
#200	1.32	4.86	3.54	43.93	77.3	22.7

Data entered by: NAA Date: 6-20-95
Data checked by: REW Date: 6-23-95
FileName:SAH0786

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

CLIENT SAIC/Parsons PO 140 JOB NO. 2059-13L

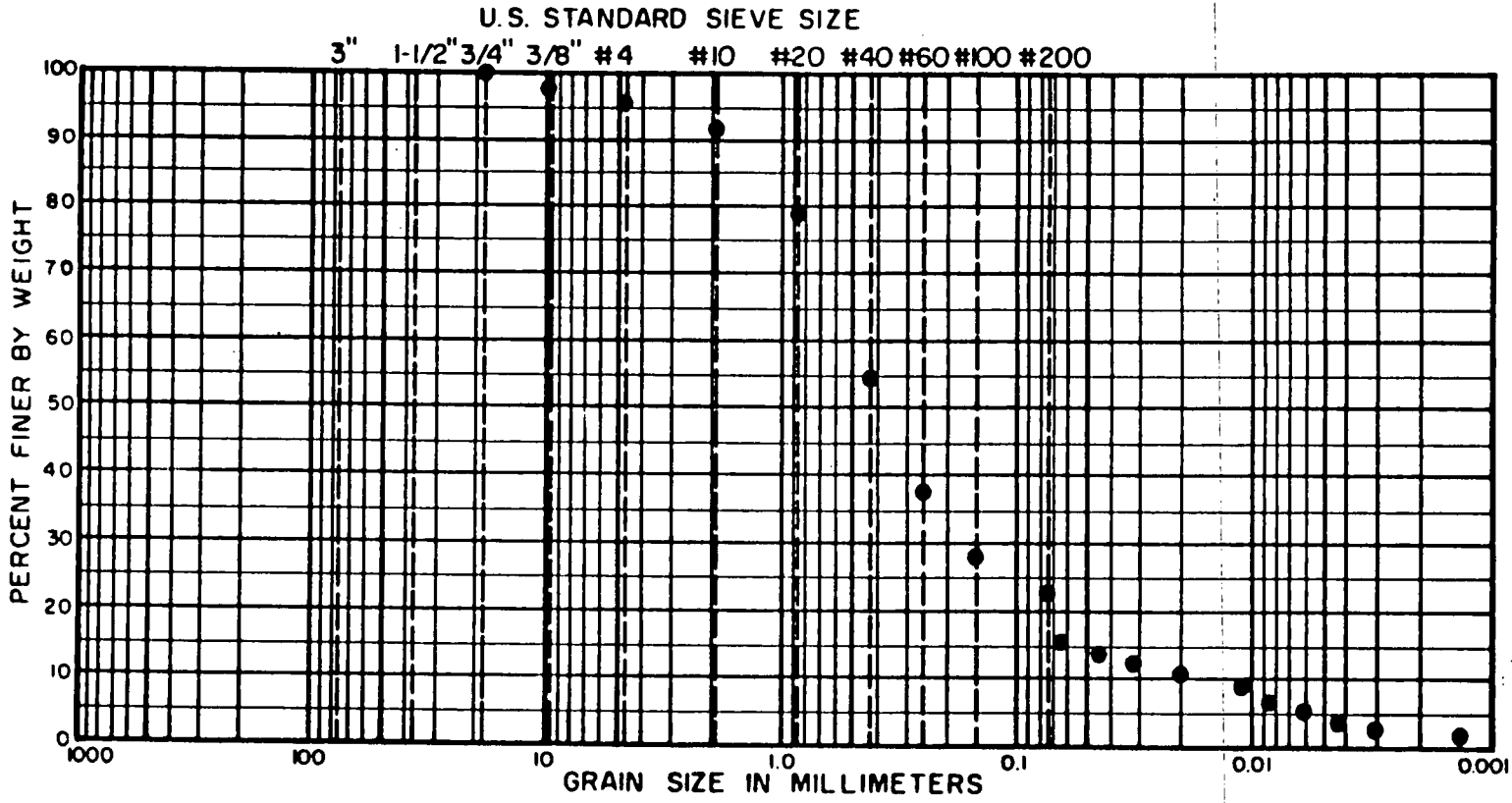
BORING NO.	G2-126	SAMPLED	4-25-95 MG
DEPTH	45.0-46.5'	DATE TESTED	6-9-95 RW, REW
SAMPLE NO.	404786	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	26.2
Sp. Gr. of Soil	2.75	Temp. Coef. K	0.01232
Value of "alpha"	0.98	Wt. Dry Sample "W"	64.394
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	5.0		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	16.25	10.25	15.6	15.6	13.63	0.0643
1.0	15.25	9.25	14.1	14.1	13.79	0.0457
2.0	14.00	8.00	12.2	12.2	13.99	0.0326
5.0	13.00	7.00	10.7	10.7	14.16	0.0207
15.0	12.00	6.00	9.1	9.1	14.32	0.0120
30.0	10.00	4.00	6.1	6.1	14.65	0.0086
60.0	9.50	3.50	5.3	5.3	14.73	0.0061
120.0	8.25	2.25	3.4	3.4	14.94	0.0043
250.0	7.50	1.50	2.3	2.3	15.06	0.0030
1281.0	7.25	1.25	1.9	1.9	15.10	0.0013

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

LOCATION	DEPTH	CLASSIFICATION
G2-126	45.0-46.5'	

404786

ADVANCED TERRA TESTING

335

000406

424

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13L

BORING NO.	G2-126	SAMPLED	4-25-95 MG
DEPTH	50.0-51.5'	DATE TESTED	6-20-95 REW
SAMPLE NO.	404787	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC	Yes	
NATURAL	No	
Wt. Wet Soil & Pan	(g)	87.88
Wt. Dry Soil & Pan	(g)	87.76
Wt. Lost Moisture	(g)	0.12
Wt. of Pan Only	(g)	3.55
Wt. of Dry Soil	(g)	84.21
Moisture Content	%	0.1
Wt. Hydrom. Sample Wet	(g)	55.87
Wt. Hydrom. Sample Dry	(g)	55.79

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	685.73
Weight of + #10 Before Washing (g)	64.02
Weight of + #10 After Washing (g)	56.39
Weight of - #10 Wet (g)	621.71
Weight of - #10 Dry (g)	628.44
Wt. Total Sample Dry (g)	684.83
Calc. Wt. "W" (g)	60.79
Calc. Mass + #10	5.01

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	0.00	0.00	0.00	0.0	100.0
3/8"	0.00	5.60	5.60	5.60	0.8	99.2
#4	0.00	15.04	15.04	20.64	3.0	97.0
#10	0.00	35.75	35.75	56.39	8.2	91.8
#20	1.61	10.42	8.81	8.81	22.7	77.3
#40	1.58	15.97	14.39	23.20	46.4	53.6
#60	1.59	12.83	11.24	34.44	64.9	35.1
#100	1.56	7.91	6.35	40.79	75.3	24.7
#200	1.56	4.20	2.64	43.43	79.7	20.3

Data entered by: NAA Date: 6-28-95
Data checked by: cal Date: 6-29-95
FileName: SAH0787

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

CLIENT SAIC/Parsons PO 140 JOB NO. 2059-13L

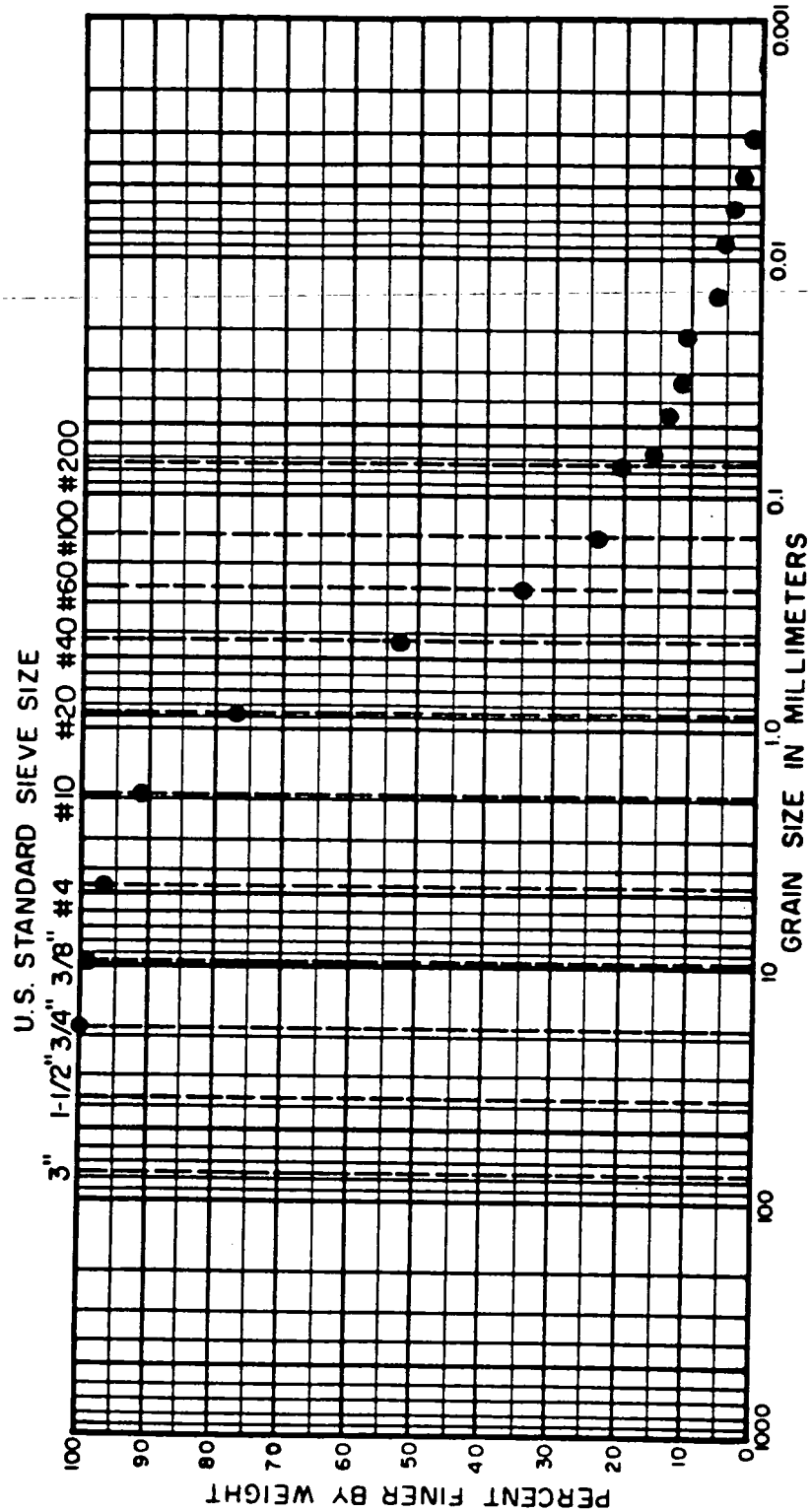
BORING NO.	G2-126	SAMPLED	4-25-95 MG
DEPTH	50.0-51.5'	DATE TESTED	6-20-95 REW
SAMPLE NO.	404787	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	26.4
Sp. Gr. of Soil	2.74	Temp. Coef. K	0.01233
Value of "alpha"	0.98	Wt. Dry Sample "W"	60.791
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	5.0		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	16.00	10.00	16.2	16.2	13.67	0.0645
1.0	15.00	9.00	14.5	14.5	13.83	0.0459
2.0	13.25	7.25	11.7	11.7	14.12	0.0328
5.0	12.75	6.75	10.9	10.9	14.20	0.0208
15.0	10.25	4.25	6.9	6.9	14.61	0.0122
30.0	9.25	3.25	5.2	5.2	14.77	0.0087
60.0	8.50	2.50	4.0	4.0	14.90	0.0061
120.0	8.00	2.00	3.2	3.2	14.98	0.0044
250.0	7.00	1.00	1.6	1.6	15.14	0.0030
1423.0	7.00	1.00	1.6	1.6	15.14	0.0013

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



LOCATION	DEPTH	CLASSIFICATION
G2-126	50.0 - 51.5'	

404787

ADVANCED TERRA TESTING

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13L

BORING NO.	G2-126	SAMPLED	4-25-95 MG
DEPTH	55.0-56.5'	DATE TESTED	6-9-95 RV, REW
SAMPLE NO.	404788	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC Yes

NATURAL No

Wt. Wet Soil & Pan	(g)	74.18
Wt. Dry Soil & Pan	(g)	74.09
Wt. Lost Moisture	(g)	0.09
Wt. of Pan Only	(g)	3.71
Wt. of Dry Soil	(g)	70.38
Moisture Content	%	0.1

Wt. Hydrom. Sample Wet (g)	57.89
Wt. Hydrom. Sample Dry (g)	57.82

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	884.90
Weight of + #10 Before Washing (g)	85.03
Weight of + #10 After Washing (g)	71.43
Weight of - #10 Wet (g)	799.87
Weight of - #10 Dry (g)	812.43
Wt. Total Sample Dry (g)	883.86
Calc. Wt. "W" (g)	62.90
Calc. Mass + #10	5.08

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	0.00	0.00	0.00	0.0	100.0
3/8"	0.00	6.25	6.25	6.25	0.7	99.3
#4	0.00	17.73	17.73	23.98	2.7	97.3
#10	0.00	47.45	47.45	71.43	8.1	91.9
#20	1.58	8.61	7.03	7.03	19.3	80.7
#40	1.56	15.27	13.71	20.74	41.1	58.9
#60	1.58	14.42	12.84	33.58	61.5	38.5
#100	1.32	7.73	6.41	39.99	71.7	28.3
#200	1.58	4.59	3.01	43.00	76.4	23.6

Data entered by: NAA Date: 6-28-95
Data checked by: Cal Date: 6-29-95
FileName: SAH0788

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

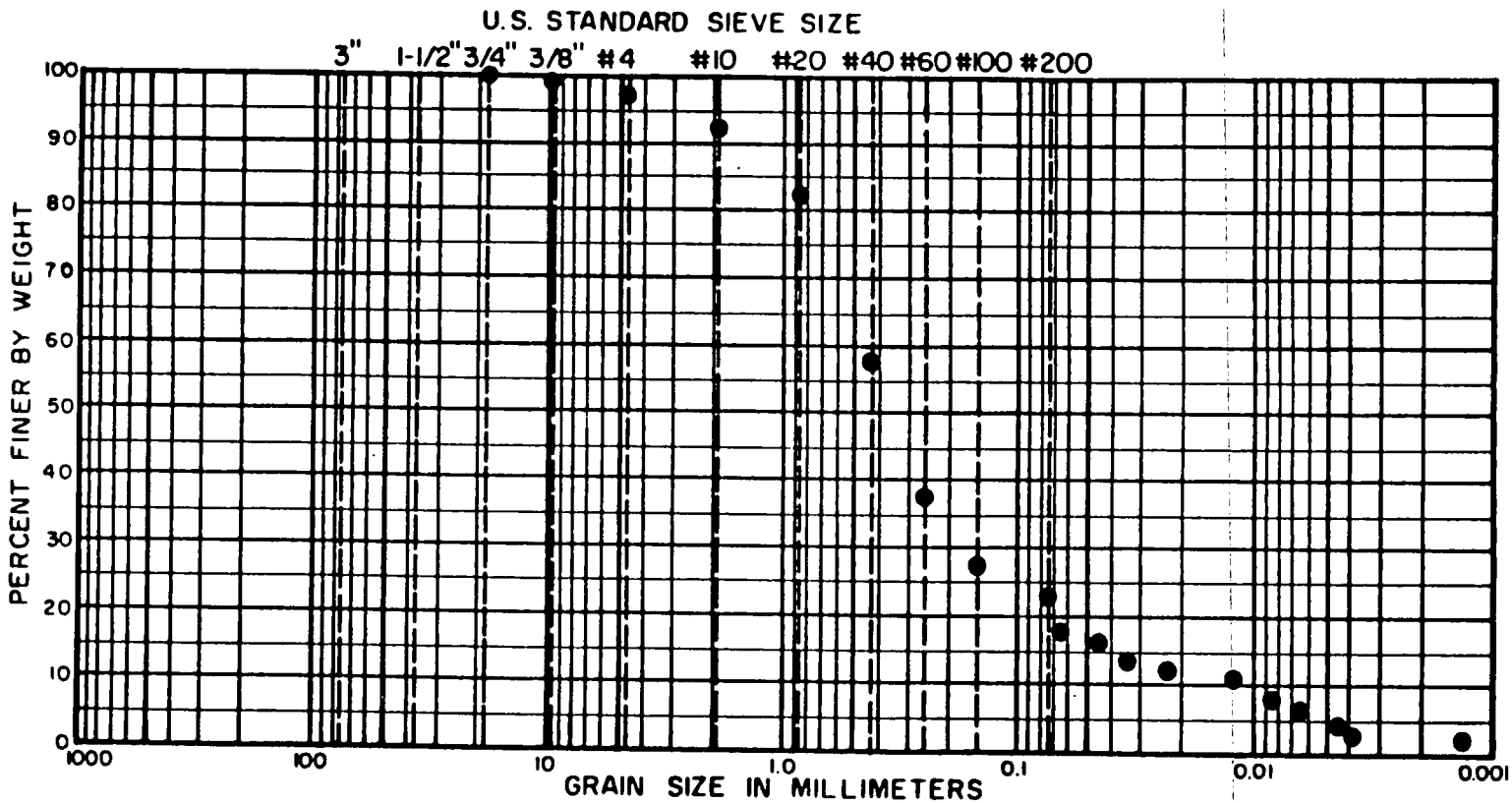
CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13L
BORING NO.	G2-126	SAMPLED	4-25-95 MG
DEPTH	55.0-56.5'	DATE TESTED	6-9-95 RV, REW
SAMPLE NO.	404788	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	26.3
Sp. Gr. of Soil	2.76	Temp. Coef. K	0.01227
Value of "alpha"	0.98	Wt. Dry Sample "W"	62.903
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	5.0		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	17.75	11.75	18.3	18.3	13.38	0.0635
1.0	16.25	10.25	15.9	15.9	13.63	0.0453
2.0	15.50	9.50	14.8	14.8	13.75	0.0322
5.0	14.00	8.00	12.4	12.4	13.99	0.0205
15.0	13.00	7.00	10.9	10.9	14.16	0.0119
30.0	11.50	5.50	8.6	8.6	14.40	0.0085
60.0	10.00	4.00	6.2	6.2	14.65	0.0061
120.0	9.00	3.00	4.7	4.7	14.81	0.0043
250.0	8.50	2.50	3.9	3.9	14.90	0.0030
1436.0	8.00	2.00	3.1	3.1	14.98	0.0013

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

LOCATION	DEPTH	CLASSIFICATION
G2-126	55.0-56.5'	

404788

ADVANCED TERRA TESTING

341

000412

474

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13L

BORING NO.	G2-126	SAMPLED	4-25-95 MG
DEPTH	60.0-61.5'	DATE TESTED	6-9-95 RW, DPM
SAMPLE NO.	404789	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC	Yes	
NATURAL	No	
Wt. Wet Soil & Pan	(g)	64.82
Wt. Dry Soil & Pan	(g)	64.75
Wt. Lost Moisture	(g)	0.07
Wt. of Pan Only	(g)	3.82
Wt. of Dry Soil	(g)	60.93
Moisture Content	%	0.1
Wt. Hydrom. Sample Wet	(g)	61.28
Wt. Hydrom. Sample Dry	(g)	61.21

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	379.20
Weight of + #10 Before Washing (g)	46.91
Weight of + #10 After Washing (g)	43.30
Weight of - #10 Wet (g)	332.29
Weight of - #10 Dry (g)	335.51
Wt. Total Sample Dry (g)	378.81
Calc. Wt. "W" (g)	69.11
Calc. Mass + #10	7.90

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	0.00	0.00	0.00	0.0	100.0
3/8"	0.00	3.33	3.33	3.33	0.9	99.1
#4	0.00	16.88	16.88	20.21	5.3	94.7
#10	0.00	23.09	23.09	43.30	11.4	88.6
#20	1.57	5.76	4.19	4.19	17.5	82.5
#40	1.59	13.40	11.81	16.00	34.6	65.4
#60	1.59	18.98	17.39	33.39	59.7	40.3
#100	1.61	11.77	10.16	43.55	74.4	25.6
#200	1.58	9.04	7.46	51.01	85.2	14.8

Data entered by: NAA Date: 6-28-95

Data checked by: cal Date: 6-29-95

FileName:SAH0789

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

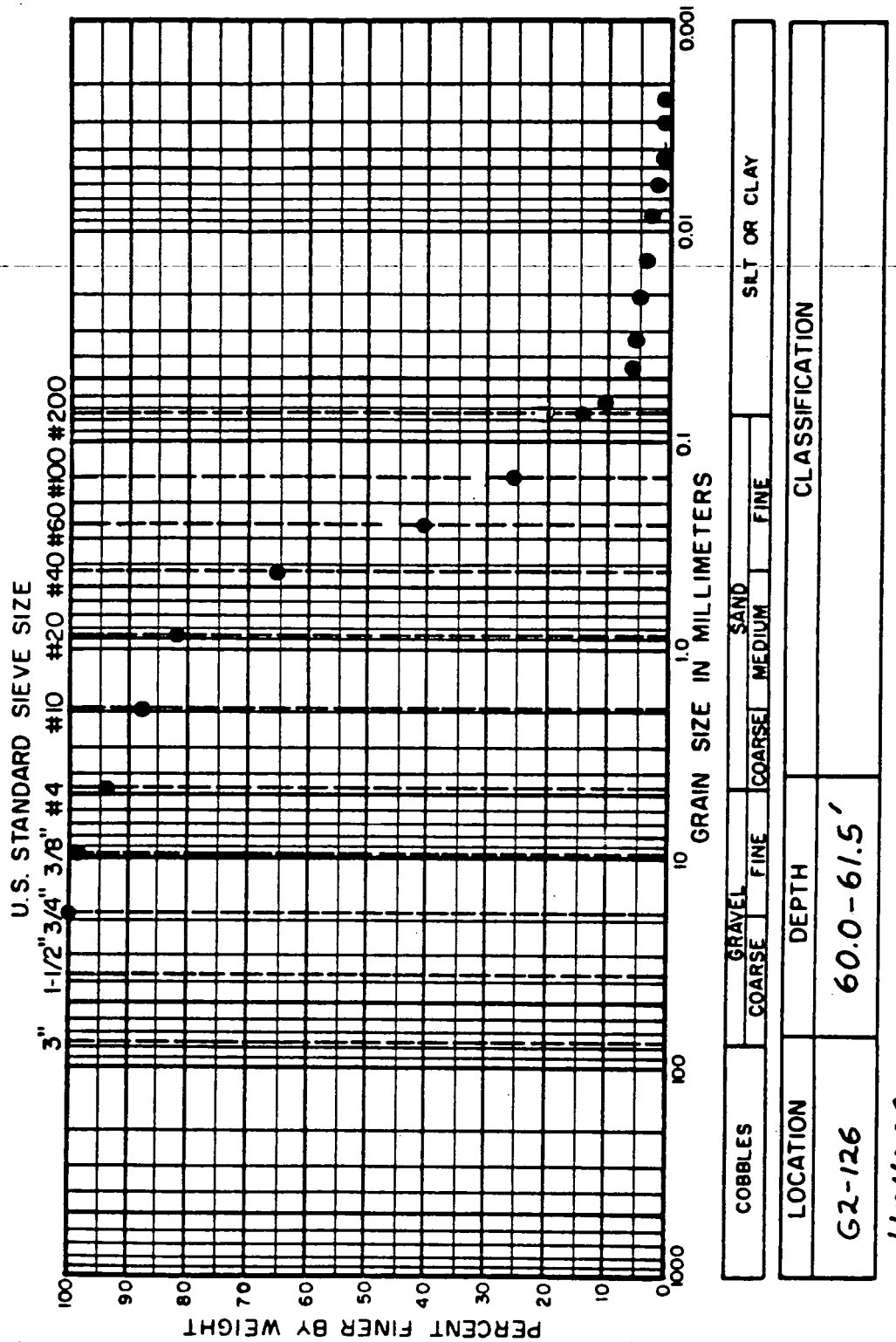
CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13L
BORING NO.	G2-126	SAMPLED	4-25-95 MG
DEPTH	60.0-61.5'	DATE TESTED	6-9-95 RW, DPM
SAMPLE NO.	404789	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	27.3
Sp. Gr. of Soil	2.73	Temp. Coef. K	0.01224
Value of "alpha"	0.98	Wt. Dry Sample "W"	69.109
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	4.5		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	13.00	7.50	10.7	10.7	14.16	0.0651
1.0	10.00	4.50	6.4	6.4	14.65	0.0468
2.0	9.25	3.75	5.3	5.3	14.77	0.0333
5.0	9.00	3.50	5.0	5.0	14.81	0.0211
15.0	8.50	3.00	4.3	4.3	14.90	0.0122
30.0	8.00	2.50	3.6	3.6	14.98	0.0086
60.0	7.00	1.50	2.1	2.1	15.14	0.0061
120.0	6.50	1.00	1.4	1.4	15.22	0.0044
250.0	6.25	0.75	1.1	1.1	15.27	0.0030
1411.0	6.25	0.75	1.1	1.1	15.27	0.0013

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



404789

ADVANCED TERRA TESTING

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13L

BORING NO.	G2-126	SAMPLED	4-25-95 MG
DEPTH	65.0-66.5'	DATE TESTED	6-9-95 RV, REW
SAMPLE NO.	404790	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC Yes

NATURAL No

Wt. Wet Soil & Pan	(g)	68.29
Wt. Dry Soil & Pan	(g)	68.24
Wt. Lost Moisture	(g)	0.05
Wt. of Pan Only	(g)	3.74
Wt. of Dry Soil	(g)	64.50
Moisture Content	%	0.1

Wt. Hydrom. Sample Wet (g)	56.96
Wt. Hydrom. Sample Dry (g)	56.91

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	434.84
Weight of + #10 Before Washing (g)	26.02
Weight of + #10 After Washing (g)	24.08
Weight of - #10 Wet (g)	408.82
Weight of - #10 Dry (g)	410.44
Wt. Total Sample Dry (g)	434.52
Calc. Wt. "W" (g)	60.25
Calc. Mass + #10	3.34

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	0.00	0.00	0.00	0.0	100.0
3/8"	0.00	0.88	0.88	0.88	0.2	99.8
#4	0.00	4.04	4.04	4.92	1.1	98.9
#10	0.00	19.16	19.16	24.08	5.5	94.5
#20	1.59	7.85	6.26	6.26	15.9	84.1
#40	1.56	15.04	13.48	19.74	38.3	61.7
#60	1.57	17.24	15.67	35.41	64.3	35.7
#100	1.58	9.63	8.05	43.46	77.7	22.3
#200	1.57	4.84	3.27	46.73	83.1	16.9

Data entered by: NAA Date: 6-27-95
Data checked by: Cal Date: 6-29-95
FileName:SAH0790

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

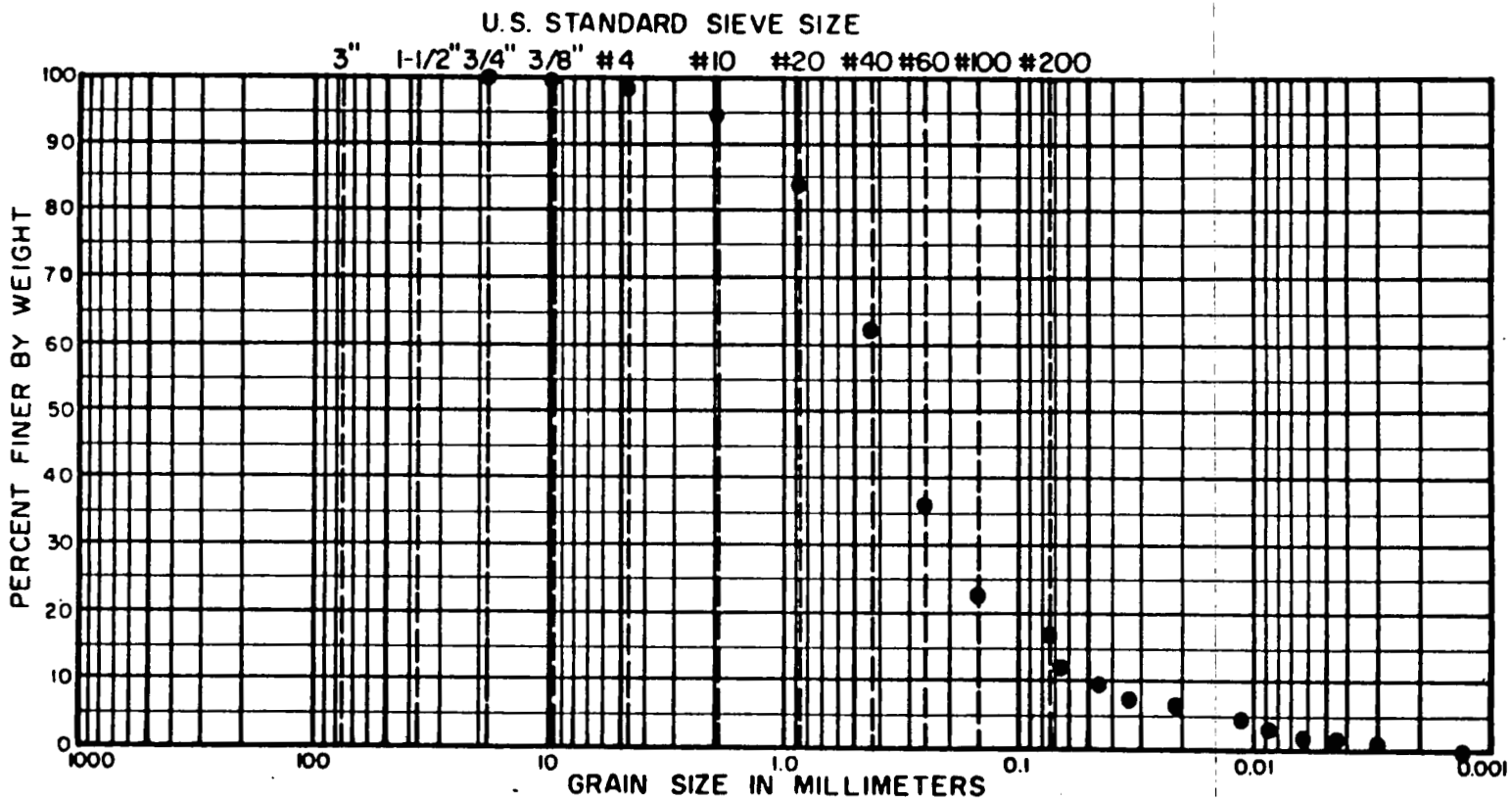
CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13L
BORING NO.	G2-126	SAMPLED	4-25-95 MG
DEPTH	65.0-66.5'	DATE TESTED	6-9-95 RV, REW
SAMPLE NO.	404790	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	26.4
Sp. Gr. of Soil	2.75	Temp. Coef. K	0.01229
Value of "alpha"	0.98	Wt. Dry Sample "W"	60.253
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	5.0		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	13.00	7.00	11.4	11.4	14.16	0.0654
1.0	11.75	5.75	9.4	9.4	14.36	0.0466
2.0	10.50	4.50	7.3	7.3	14.57	0.0332
5.0	10.00	4.00	6.5	6.5	14.65	0.0210
15.0	8.75	2.75	4.5	4.5	14.86	0.0122
30.0	7.75	1.75	2.8	2.8	15.02	0.0087
60.0	7.00	1.00	1.6	1.6	15.14	0.0062
120.0	6.50	0.50	0.8	0.8	15.22	0.0044
250.0	6.25	0.25	0.4	0.4	15.27	0.0030
1467.0	6.00	0.00	0.0	0.0	15.31	0.0013

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

LOCATION	DEPTH	CLASSIFICATION
62-126	65.0 -66.5'	

404790

ADVANCED TERRA TESTING

347

000418

474

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13L

BORING NO.	G2-126	SAMPLED	4-25-95 MG
DEPTH	70.0-71.5	DATE TESTED	6-9-95 RW, REW
SAMPLE NO.	404791	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC	Yes	
NATURAL	No	
Wt. Wet Soil & Pan	(g)	53.46
Wt. Dry Soil & Pan	(g)	53.43
Wt. Lost Moisture	(g)	0.03
Wt. of Pan Only	(g)	3.75
Wt. of Dry Soil	(g)	49.68
Moisture Content	%	0.1
Wt. Hydrom. Sample Wet	(g)	55.62
Wt. Hydrom. Sample Dry	(g)	55.58

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	246.84
Weight of + #10 Before Washing (g)	141.45
Weight of + #10 After Washing (g)	137.19
Weight of - #10 Wet (g)	105.39
Weight of - #10 Dry (g)	109.58
Wt. Total Sample Dry (g)	246.77
Calc. Wt. "W" (g)	125.16
Calc. Mass + #10	69.58

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	0.00	0.00	0.00	0.0	100.0
3/8"	0.00	32.43	32.43	32.43	13.1	86.9
#4	0.00	57.75	57.75	90.18	36.5	63.5
#10	0.00	47.01	47.01	137.19	55.6	44.4
#20	1.57	19.24	17.67	17.67	69.7	30.3
#40	1.58	12.89	11.31	28.98	78.7	21.3
#60	1.56	10.57	9.01	37.99	85.9	14.1
#100	1.56	5.36	3.80	41.79	89.0	11.0
#200	1.57	3.76	2.19	43.98	90.7	9.3

Data entered by: NAA Date: 6-27-95
Data checked by: cal Date: 6-29-95
FileName: SAH0791

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

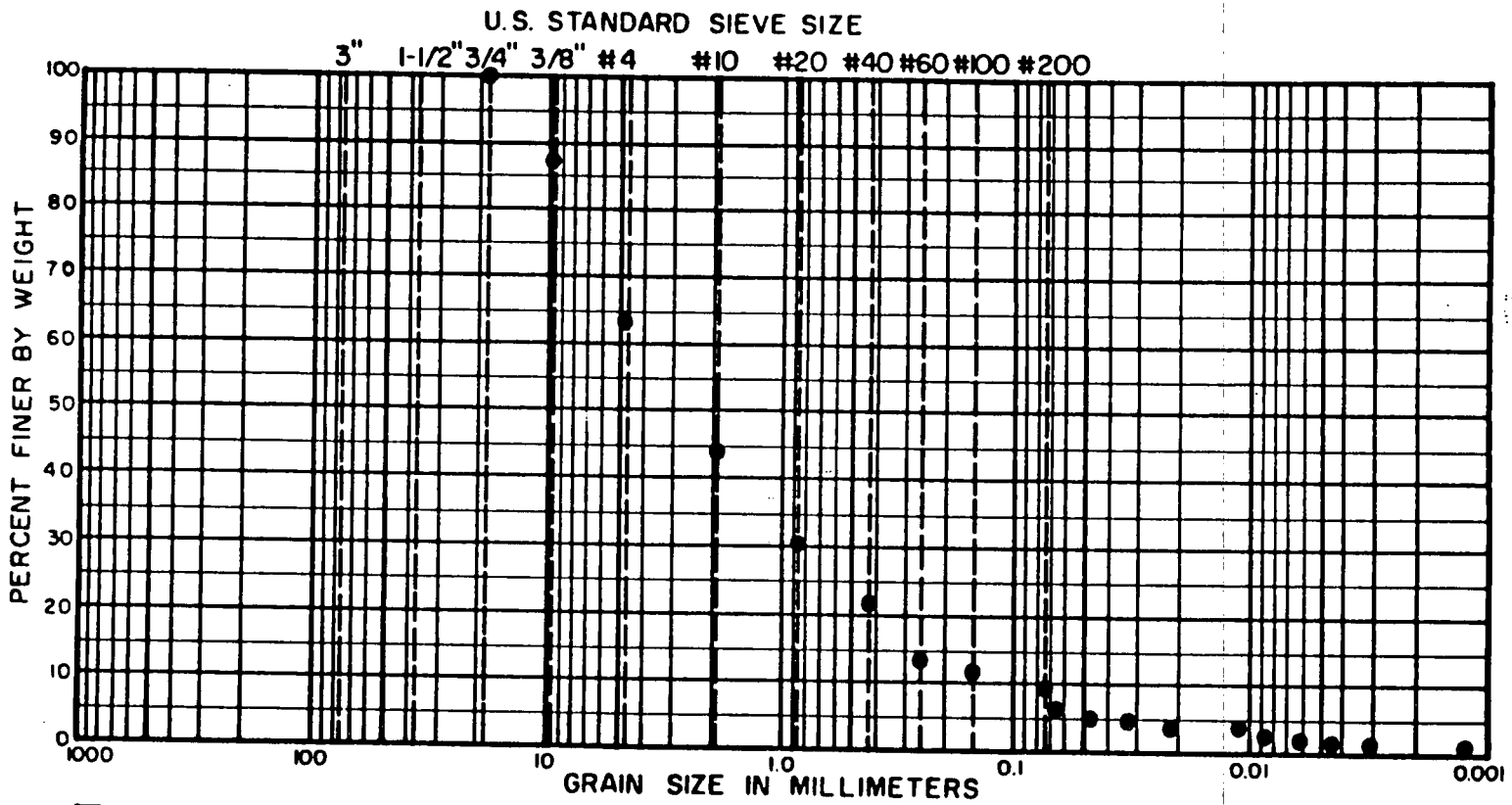
CLIENT SAIC/Parsons PO 140 JOB NO. 2059-13L

BORING NO.	G2-126	SAMPLED	4-25-95 MG
DEPTH	70.0-71.5	DATE TESTED	6-9-95 RW, REW
SAMPLE NO.	404791	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	26.2
Sp. Gr. of Soil	2.68	Temp. Coef. K	0.01258
Value of "alpha"	0.99	Wt. Dry Sample "W"	125.165
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	5.0		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	13.50	7.50	6.0	6.0	14.08	0.0667
1.0	12.50	6.50	5.2	5.2	14.24	0.0475
2.0	11.75	5.75	4.6	4.6	14.36	0.0337
5.0	10.50	4.50	3.6	3.6	14.57	0.0215
15.0	10.00	4.00	3.2	3.2	14.65	0.0124
30.0	9.00	3.00	2.4	2.4	14.81	0.0088
60.0	8.00	2.00	1.6	1.6	14.98	0.0063
120.0	7.50	1.50	1.2	1.2	15.06	0.0045
250.0	7.00	1.00	0.8	0.8	15.14	0.0031
1455.0	7.00	1.00	0.8	0.8	15.14	0.0013

Grain Diameter = K*(SQRT(L/T))



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

LOCATION	DEPTH	CLASSIFICATION
62-126	70.0 - 71.5'	

404791

350

ADVANCED TERRA TESTING

000421

474

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13L

BORING NO.	G2-126	SAMPLED	4-25-95 MG
DEPTH	75.0-76.5'	DATE TESTED	6-9-95 RW, REW
SAMPLE NO.	404792	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC Yes

NATURAL No

Wt. Wet Soil & Pan	(g)	99.46
Wt. Dry Soil & Pan	(g)	99.35
Wt. Lost Moisture	(g)	0.11
Wt. of Pan Only	(g)	3.82
Wt. of Dry Soil	(g)	95.53
Moisture Content	%	0.1

Wt. Hydrom. Sample Wet (g)	59.83
Wt. Hydrom. Sample Dry (g)	59.76

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	341.64
Weight of + #10 Before Washing (g)	185.64
Weight of + #10 After Washing (g)	156.39
Weight of - #10 Wet (g)	156.00
Weight of - #10 Dry (g)	185.04
Wt. Total Sample Dry (g)	341.43
Calc. Wt. "W" (g)	110.27
Calc. Mass + #10	50.51

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	0.00	0.00	0.00	0.0	100.0
3/8"	0.00	41.88	41.88	41.88	12.3	87.7
#4	0.00	55.72	55.72	97.60	28.6	71.4
#10	0.00	58.79	58.79	156.39	45.8	54.2
#20	1.32	19.93	18.61	18.61	62.7	37.3
#40	1.58	15.47	13.89	32.50	75.3	24.7
#60	1.56	9.59	8.03	40.53	82.6	17.4
#100	1.58	5.39	3.81	44.34	86.0	14.0
#200	1.59	3.98	2.39	46.73	88.2	11.8

Data entered by: NAA Date: 6-27-95
Data checked by: al Date: 6-29-95
FileName:SAH0792

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13L

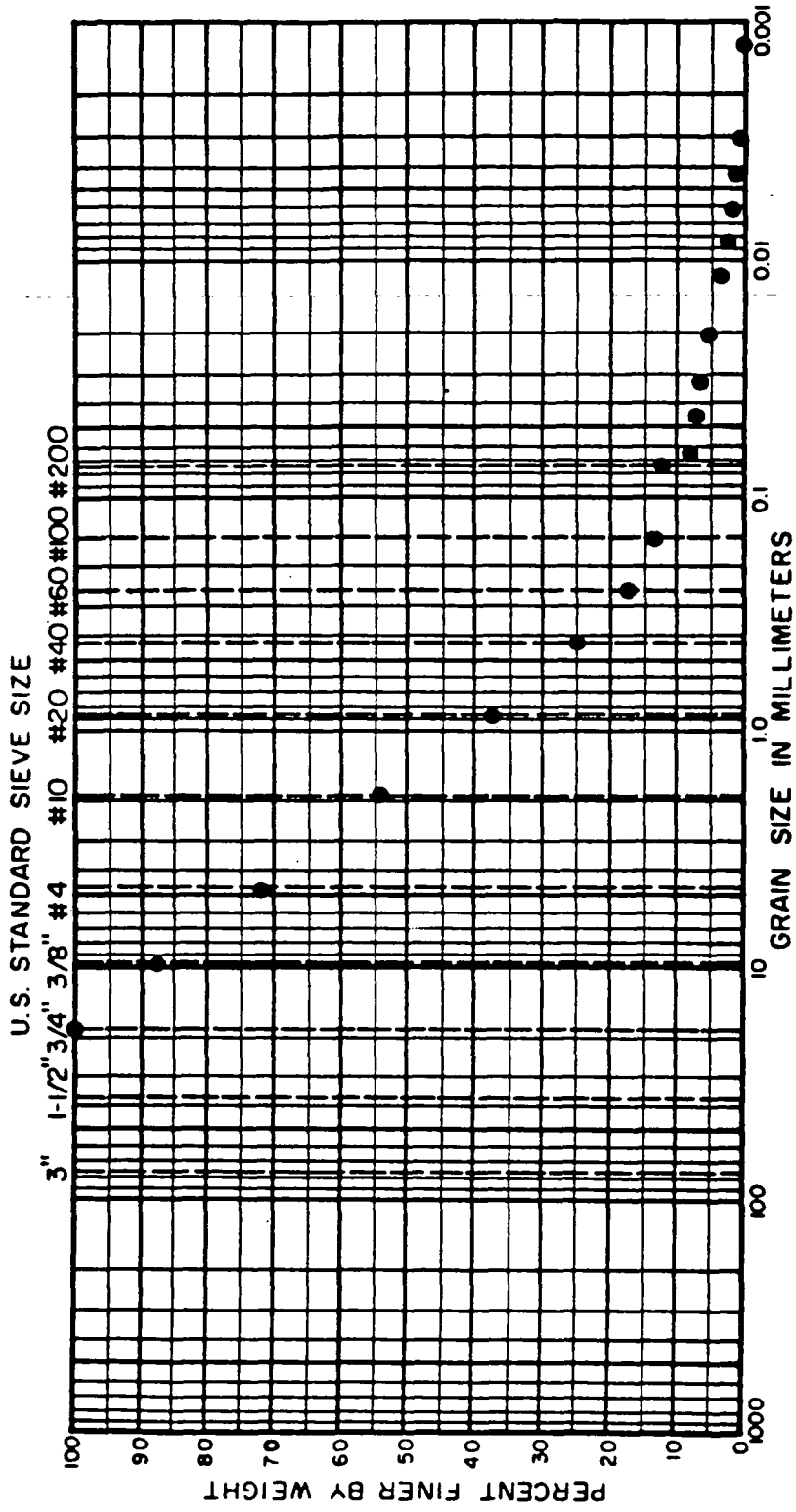
BORING NO.	G2-126	SAMPLED	4-25-95 MG
DEPTH	75.0-76.5'	DATE TESTED	6-9-95 RW, REW
SAMPLE NO.	404792	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	26.4
Sp. Gr. of Soil	2.79	Temp. Coef. K	0.01216
Value of "alpha"	0.97	Wt. Dry Sample "W"	110.272
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	5.0		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	15.00	9.00	7.9	7.9	13.83	0.0640
1.0	14.00	8.00	7.1	7.1	13.99	0.0455
2.0	13.00	7.00	6.2	6.2	14.16	0.0324
5.0	12.00	6.00	5.3	5.3	14.32	0.0206
15.0	10.00	4.00	3.5	3.5	14.65	0.0120
30.0	9.00	3.00	2.6	2.6	14.81	0.0085
60.0	8.00	2.00	1.8	1.8	14.98	0.0061
120.0	7.00	1.00	0.9	0.9	15.14	0.0043
250.0	6.50	0.50	0.4	0.4	15.22	0.0030
1416.0	6.00	0.00	0.0	0.0	15.31	0.0013

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



LOCATION	DEPTH	CLASSIFICATION
62-126	75.0-76.5'	

404792

ADVANCED TERRA TESTING

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13L

BORING NO.	G2-126	SAMPLED	4-25-95 MG
DEPTH	80.0-81.5'	DATE TESTED	6-9-95 CAL, REW
SAMPLE NO.	404793	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC	Yes	
NATURAL	No	
Wt. Wet Soil & Pan	(g)	76.40
Wt. Dry Soil & Pan	(g)	76.34
Wt. Lost Moisture	(g)	0.06
Wt. of Pan Only	(g)	3.84
Wt. of Dry Soil	(g)	72.50
Moisture Content	%	0.1
Wt. Hydrom. Sample Wet	(g)	55.73
Wt. Hydrom. Sample Dry	(g)	55.69

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	590.84
Weight of + #10 Before Washing (g)	243.04
Weight of + #10 After Washing (g)	240.27
Weight of - #10 Wet (g)	347.80
Weight of - #10 Dry (g)	350.28
Wt. Total Sample Dry (g)	590.55
Calc. Wt. "W" (g)	93.88
Calc. Mass + #10	38.20

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	0.00	0.00	0.00	0.0	100.0
3/8"	0.00	51.79	51.79	51.79	8.8	91.2
#4	0.00	76.69	76.69	128.48	21.8	78.2
#10	0.00	111.79	111.79	240.27	40.7	59.3
#20	1.32	18.93	17.61	17.61	59.4	40.6
#40	1.57	16.40	14.83	32.44	75.2	24.8
#60	1.57	9.49	7.92	40.36	83.7	16.3
#100	1.32	5.73	4.41	44.77	88.4	11.6
#200	1.56	3.75	2.19	46.96	90.7	9.3

Data entered by: NAA Date: 6-28-95
Data checked by: Cal Date: 6-29-95
FileName:SAH0793

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13L

BORING NO.	G2-126	SAMPLED	4-25-95 MG
DEPTH	80.0-81.5'	DATE TESTED	6-9-95 CAL, REW
SAMPLE NO.	404793	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	26.2
Sp. Gr. of Soil	2.76	Temp. Coef. K	0.01229
Value of "alpha"	0.98	Wt. Dry Sample "W"	93.883
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	5.0		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	11.50	5.50	5.7	5.7	14.40	0.0660
1.0	10.75	4.75	4.9	4.9	14.53	0.0468
2.0	10.00	4.00	4.2	4.2	14.65	0.0333
5.0	9.00	3.00	3.1	3.1	14.81	0.0212
15.0	8.75	2.75	2.9	2.9	14.86	0.0122
30.0	8.00	2.00	2.1	2.1	14.98	0.0087
60.0	7.00	1.00	1.0	1.0	15.14	0.0062
120.0	6.50	0.50	0.5	0.5	15.22	0.0044
250.0	6.00	0.00	0.0	0.0	15.31	0.0030

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13D

BORING NO.	G2-127	SAMPLED	4-21-95 MG
DEPTH	7.5-9.5'	DATE TESTED	6-5-95 DPM
SAMPLE NO.	404751	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC	Yes	
NATURAL	No	
Wt. Wet Soil & Pan	(g)	69.38
Wt. Dry Soil & Pan	(g)	68.55
Wt. Lost Moisture	(g)	0.83
Wt. of Pan Only	(g)	3.75
Wt. of Dry Soil	(g)	64.80
Moisture Content	%	1.3
Wt. Hydrom. Sample Wet	(g)	58.75
Wt. Hydrom. Sample Dry	(g)	58.01

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	741.25
Weight of + #10 Before Washing (g)	55.03
Weight of + #10 After Washing (g)	47.70
Weight of - #10 Wet (g)	686.22
Weight of - #10 Dry (g)	684.78
Wt. Total Sample Dry (g)	732.48
Calc. Wt. "W" (g)	62.05
Calc. Mass + #10	4.04

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	0.00	0.00	0.00	0.0	100.0
3/8"	0.00	13.68	13.68	13.68	1.9	98.1
#4	0.00	13.62	13.62	27.30	3.7	96.3
#10	0.00	20.40	20.40	47.70	6.5	93.5
#20	1.56	3.60	2.04	2.04	9.8	90.2
#40	1.58	3.43	1.85	3.89	12.8	87.2
#60	1.60	3.48	1.88	5.77	15.8	84.2
#100	1.31	3.57	2.26	8.03	19.5	80.5
#200	1.57	4.84	3.27	11.30	24.7	75.3

Data entered by: NAA Date: 6-8-95
Data checked by: DSR Date: 6-9-95
FileName:SAH0751

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

CLIENT SAIC/Parsons PO 140 JOB NO. 2059-13D

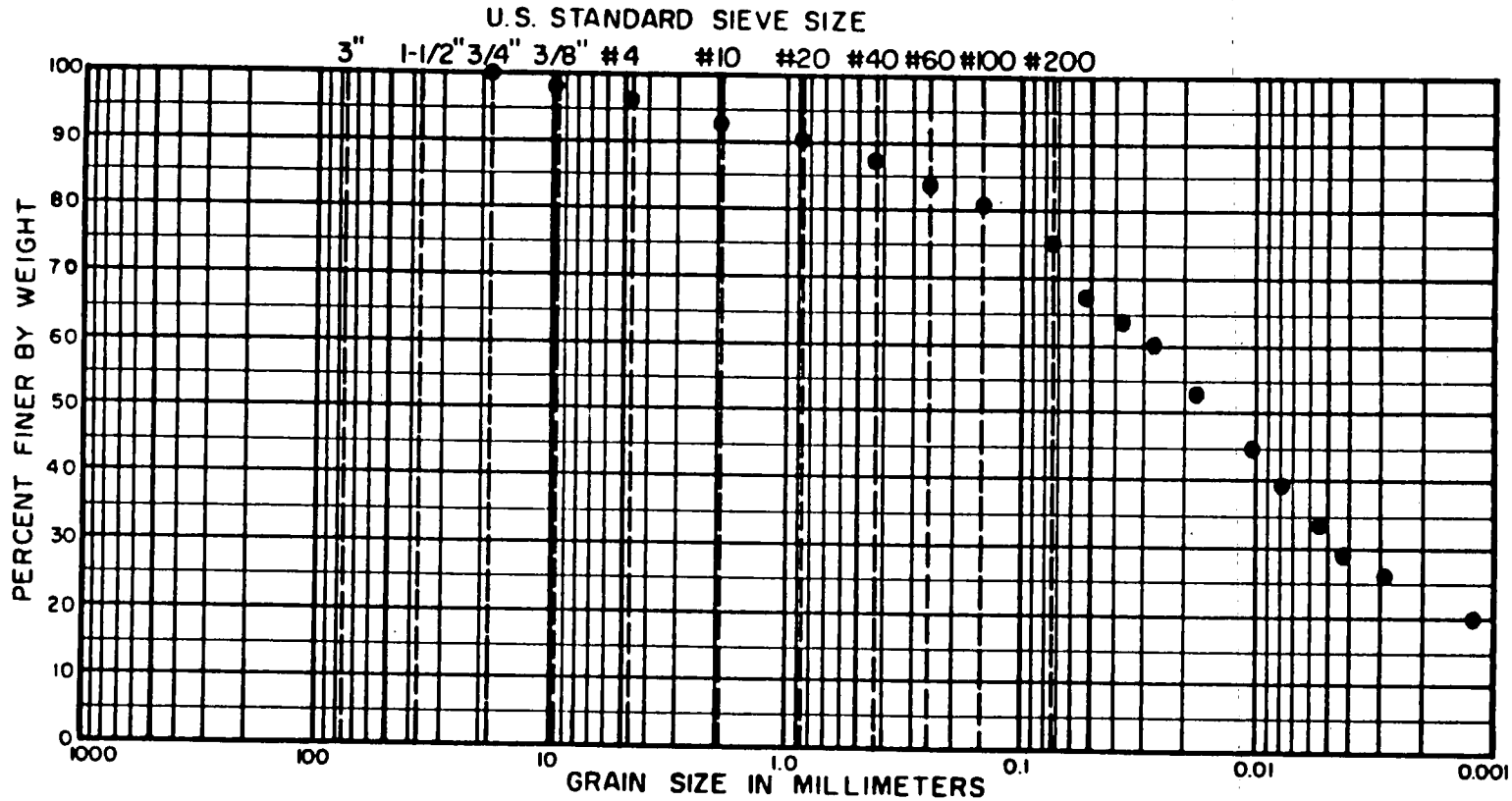
BORING NO.	G2-127	SAMPLED	4-21-95 MG
DEPTH	7.5-9.5'	DATE TESTED	6-5-95 DPM
SAMPLE NO.	404751	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	24.1
Sp. Gr. of Soil	2.74	Temp. Coef. K	0.01267
Value of "alpha"	0.98	Wt. Dry Sample "W"	62.051
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	4.5		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	48.00	42.50	67.3	67.3	8.42	0.0520
1.0	46.00	40.50	64.1	64.1	8.75	0.0375
2.0	43.50	38.00	60.1	60.1	9.16	0.0271
5.0	39.00	33.50	53.0	53.0	9.89	0.0178
15.0	34.00	28.50	45.1	45.1	10.71	0.0107
30.0	30.50	25.00	39.6	39.6	11.29	0.0078
60.0	27.00	21.50	34.0	34.0	11.86	0.0056
120.0	24.00	18.50	29.3	29.3	12.35	0.0041
250.0	22.00	16.50	26.1	26.1	12.68	0.0029
1443.0	18.00	12.50	19.8	19.8	13.34	0.0012

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

LOCATION	DEPTH	CLASSIFICATION
62-127	7.5-9.5'	

404757

ADVANCED TERRA TESTING

359

000129

474

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13D

BORING NO.	G2-127	SAMPLED	4-21-95 MG
DEPTH	15.0-17.0'	DATE TESTED	6-8-95 REW
SAMPLE NO.	404756	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC	Yes	
NATURAL	No	
Wt. Wet Soil & Pan	(g)	78.80
Wt. Dry Soil & Pan	(g)	78.14
Wt. Lost Moisture	(g)	0.66
Wt. of Pan Only	(g)	3.72
Wt. of Dry Soil	(g)	74.42
Moisture Content	%	0.9
Wt. Hydrom. Sample Wet	(g)	56.02
Wt. Hydrom. Sample Dry	(g)	55.53

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	2421.68
Weight of + #10 Before Washing (g)	406.22
Weight of + #10 After Washing (g)	378.58
Weight of - #10 Wet (g)	2015.46
Weight of - #10 Dry (g)	2025.14
Wt. Total Sample Dry (g)	2403.72
Calc. Wt. "W" (g)	65.91
Calc. Mass + #10	10.38

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	137.19	137.19	137.19	5.7	94.3
3/8"	0.00	42.26	42.26	179.45	7.5	92.5
#4	0.00	87.32	87.32	266.77	11.1	88.9
#10	0.00	111.81	111.81	378.58	15.7	84.3
#20	1.33	4.59	3.26	3.26	20.7	79.3
#40	1.58	3.88	2.30	5.56	24.2	75.8
#60	1.56	3.72	2.16	7.72	27.5	72.5
#100	1.56	4.05	2.49	10.21	31.2	68.8
#200	1.57	4.84	3.27	13.48	36.2	63.8

Data entered by: NAA Date: 6-16-95
Data checked by: SR Date: 6-16-95
FileName:SAH0756

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

CLIENT SAIC/Parsons PO 140 JOB NO. 2059-13D

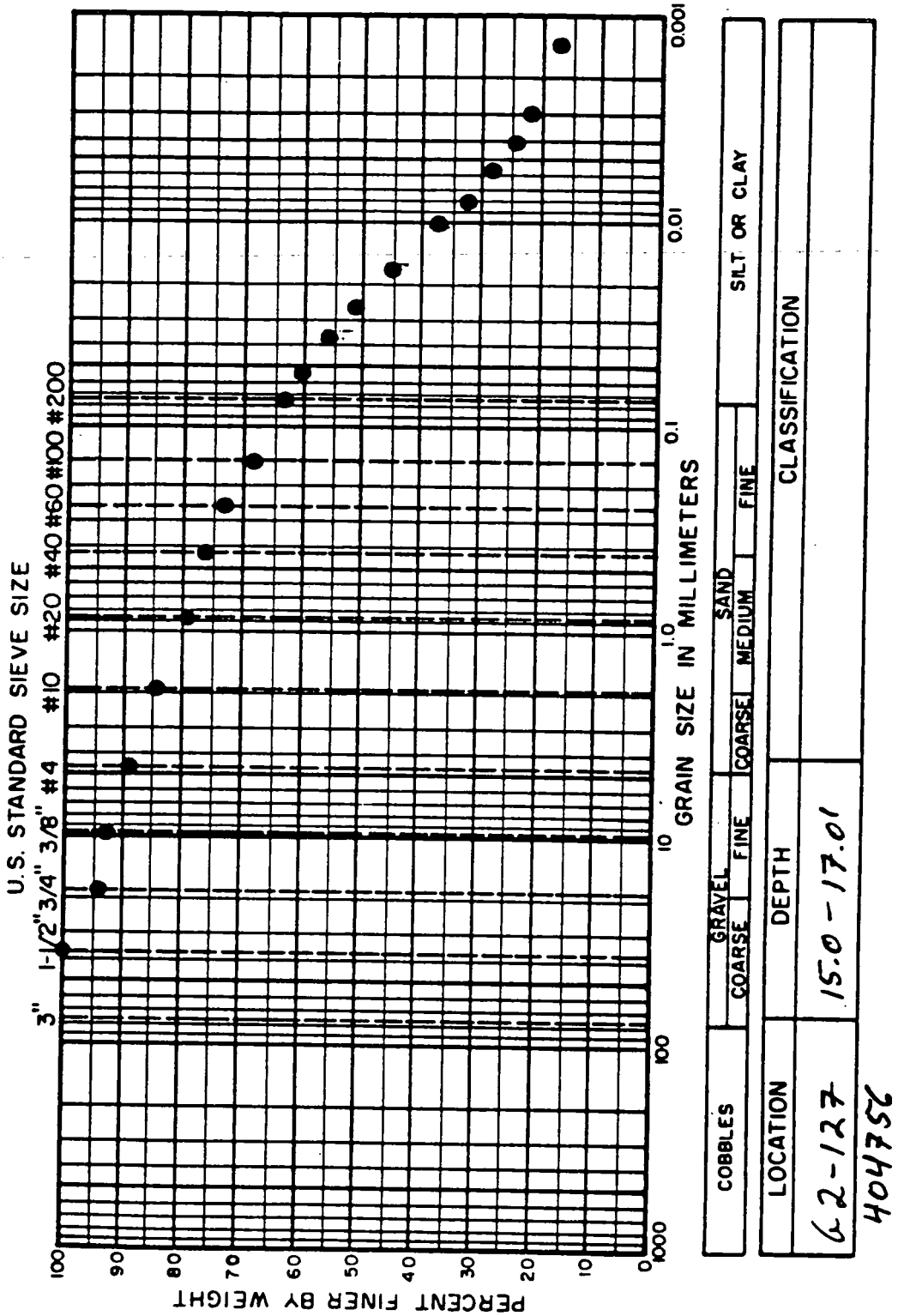
BORING NO.	G2-127	SAMPLED	4-21-95 MG
DEPTH	15.0-17.0'	DATE TESTED	6-8-95 REW
SAMPLE NO.	404756	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	25.0
Sp. Gr. of Soil	2.73	Temp. Coef. K	0.01256
Value of "alpha"	0.98	Wt. Dry Sample "W"	65.909
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	4.5		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	45.00	39.50	59.0	59.0	8.91	0.0530
1.0	43.00	37.50	56.0	56.0	9.24	0.0382
2.0	39.50	34.00	50.8	50.8	9.81	0.0278
5.0	35.50	30.00	44.8	44.8	10.47	0.0182
15.0	30.50	25.00	37.3	37.3	11.29	0.0109
30.0	27.00	21.50	32.1	32.1	11.86	0.0079
60.0	24.50	19.00	28.4	28.4	12.27	0.0057
120.0	22.00	16.50	24.6	24.6	12.68	0.0041
250.0	20.00	14.50	21.6	21.6	13.01	0.0029
1157.0	17.25	11.75	17.5	17.5	13.46	0.0014

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



404752

ADVANCED TERRA TESTING

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13D

BORING NO.	G2-127	SAMPLED	4-21-95 MG
DEPTH	28.0-30.0'	DATE TESTED	6-8-95 CAL
SAMPLE NO.	404763	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC Yes

NATURAL No

Wt. Wet Soil & Pan	(g)	63.78
Wt. Dry Soil & Pan	(g)	63.41
Wt. Lost Moisture	(g)	0.37
Wt. of Pan Only	(g)	3.68
Wt. of Dry Soil	(g)	59.73
Moisture Content	%	0.6

Wt. Hydrom. Sample Wet (g)	59.62
Wt. Hydrom. Sample Dry (g)	59.25

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	1385.69
Weight of + #10 Before Washing (g)	235.53
Weight of + #10 After Washing (g)	214.25
Weight of - #10 Wet (g)	1150.16
Weight of - #10 Dry (g)	1164.23
Wt. Total Sample Dry (g)	1378.48
Calc. Wt. "W" (g)	70.16
Calc. Mass + #10	10.90

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	0.00	0.00	0.00	0.0	100.0
3/8"	0.00	56.82	56.82	56.82	4.1	95.9
#4	0.00	66.76	66.76	123.58	9.0	91.0
#10	0.00	90.67	90.67	214.25	15.5	84.5
#20	1.58	6.40	4.82	4.82	22.4	77.6
#40	1.47	5.80	4.33	9.15	28.6	71.4
#60	1.59	5.55	3.96	13.11	34.2	65.8
#100	1.56	6.24	4.68	17.79	40.9	59.1
#200	1.59	6.45	4.86	22.65	47.8	52.2

Data entered by: NAA Date: 6-12-95
Data checked by: WEB Date: 6-12-95
FileName:SAH0763

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

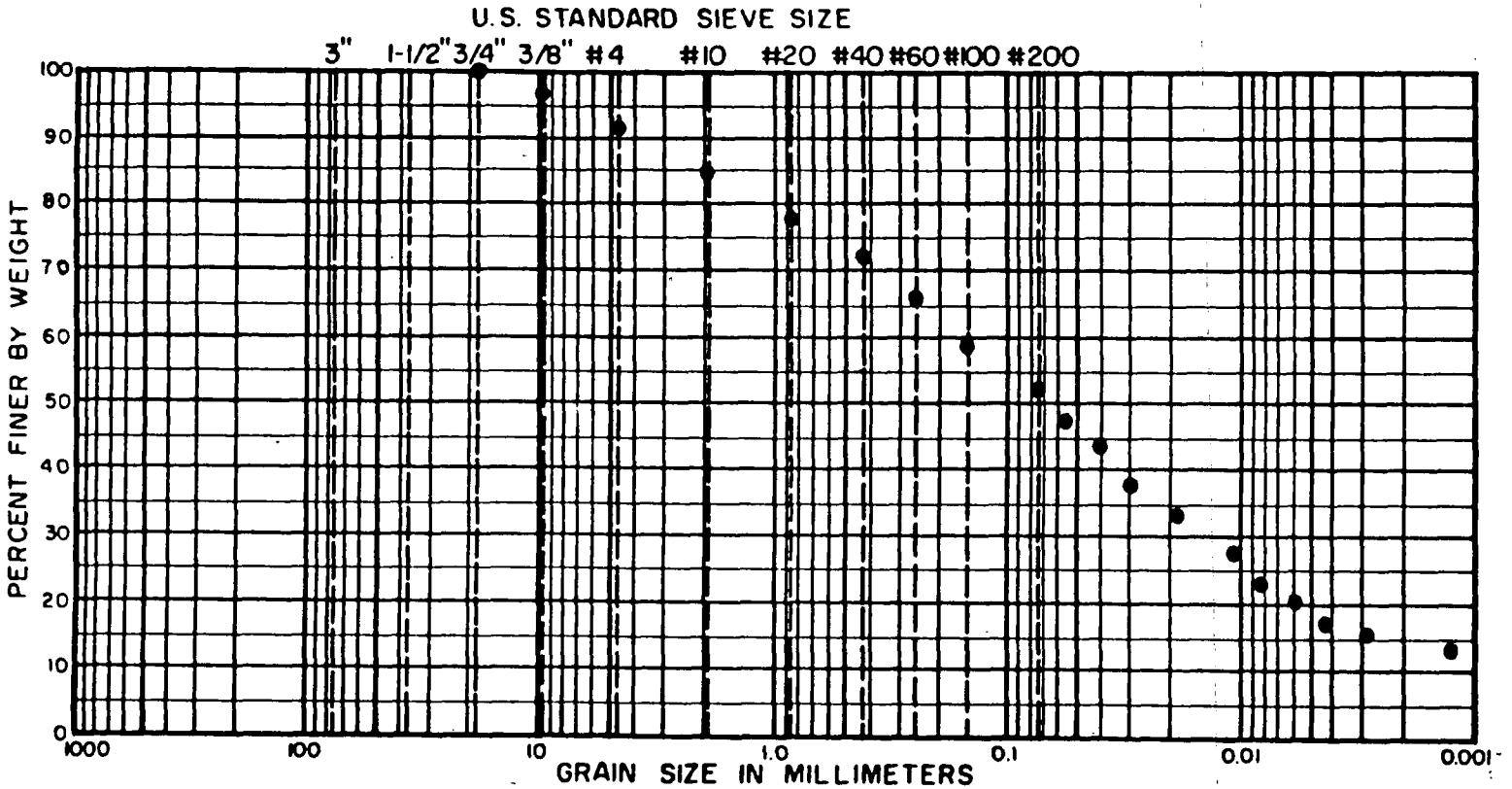
CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13D
BORING NO.	G2-127	SAMPLED	4-21-95 MG
DEPTH	28.0-30.0'	DATE TESTED	6-8-95 CAL
SAMPLE NO.	404763	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	24.8
Sp. Gr. of Soil	2.74	Temp. Coef. K	0.01259
Value of "alpha"	0.98	Wt. Dry Sample "W"	70.159
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	4.0		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	39.00	34.00	47.6	47.6	9.89	0.0560
1.0	36.50	31.50	44.1	44.1	10.30	0.0404
2.0	32.00	27.00	37.8	37.8	11.04	0.0296
5.0	29.00	24.00	33.6	33.6	11.53	0.0191
15.0	24.50	19.50	27.3	27.3	12.27	0.0114
30.0	21.50	16.50	23.1	23.1	12.76	0.0082
60.0	19.50	14.50	20.3	20.3	13.09	0.0059
120.0	17.50	12.50	17.5	17.5	13.42	0.0042
250.0	16.00	11.00	15.4	15.4	13.67	0.0029
1284.0	14.50	9.50	13.3	13.3	13.91	0.0013

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

LOCATION	DEPTH	CLASSIFICATION
G2-127	28.0-30.0'	

404763

ADVANCED TERRA TESTING

365

004435

474

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13B

BORING NO.	G2-128	SAMPLED	4-18-95 MM
DEPTH	2.5-4.5'	DATE TESTED	6-8-95 CAL
SAMPLE NO.	405040	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC Yes

NATURAL No

Wt. Wet Soil & Pan	(g)	65.89
Wt. Dry Soil & Pan	(g)	65.10
Wt. Lost Moisture	(g)	0.79
Wt. of Pan Only	(g)	3.87
Wt. of Dry Soil	(g)	61.23
Moisture Content	%	1.3
Wt. Hydrom. Sample Wet	(g)	56.83
Wt. Hydrom. Sample Dry	(g)	56.11

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	890.31
Weight of + #10 Before Washing (g)	39.86
Weight of + #10 After Washing (g)	35.16
Weight of - #10 Wet (g)	850.45
Weight of - #10 Dry (g)	844.26
Wt. Total Sample Dry (g)	879.42
Calc. Wt. "W" (g)	58.44
Calc. Mass + #10	2.34

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	0.00	0.00	0.00	0.0	100.0
3/8"	0.00	0.00	0.00	0.00	0.0	100.0
#4	0.00	11.60	11.60	11.60	1.3	98.7
#10	0.00	23.56	23.56	35.16	4.0	96.0
#20	1.57	3.77	2.20	2.20	7.8	92.2
#40	1.60	3.21	1.61	3.81	10.5	89.5
#60	1.58	3.02	1.44	5.25	13.0	87.0
#100	1.59	3.39	1.80	7.05	16.1	83.9
#200	1.57	3.85	2.28	9.33	20.0	80.0

Data entered by: NAA Date: 6-12-95
Data checked by: WEB Date: 6-12-95
FileName:SAH05040

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

CLIENT SAIC/Parsons PO 140 JOB NO. 2059-13B

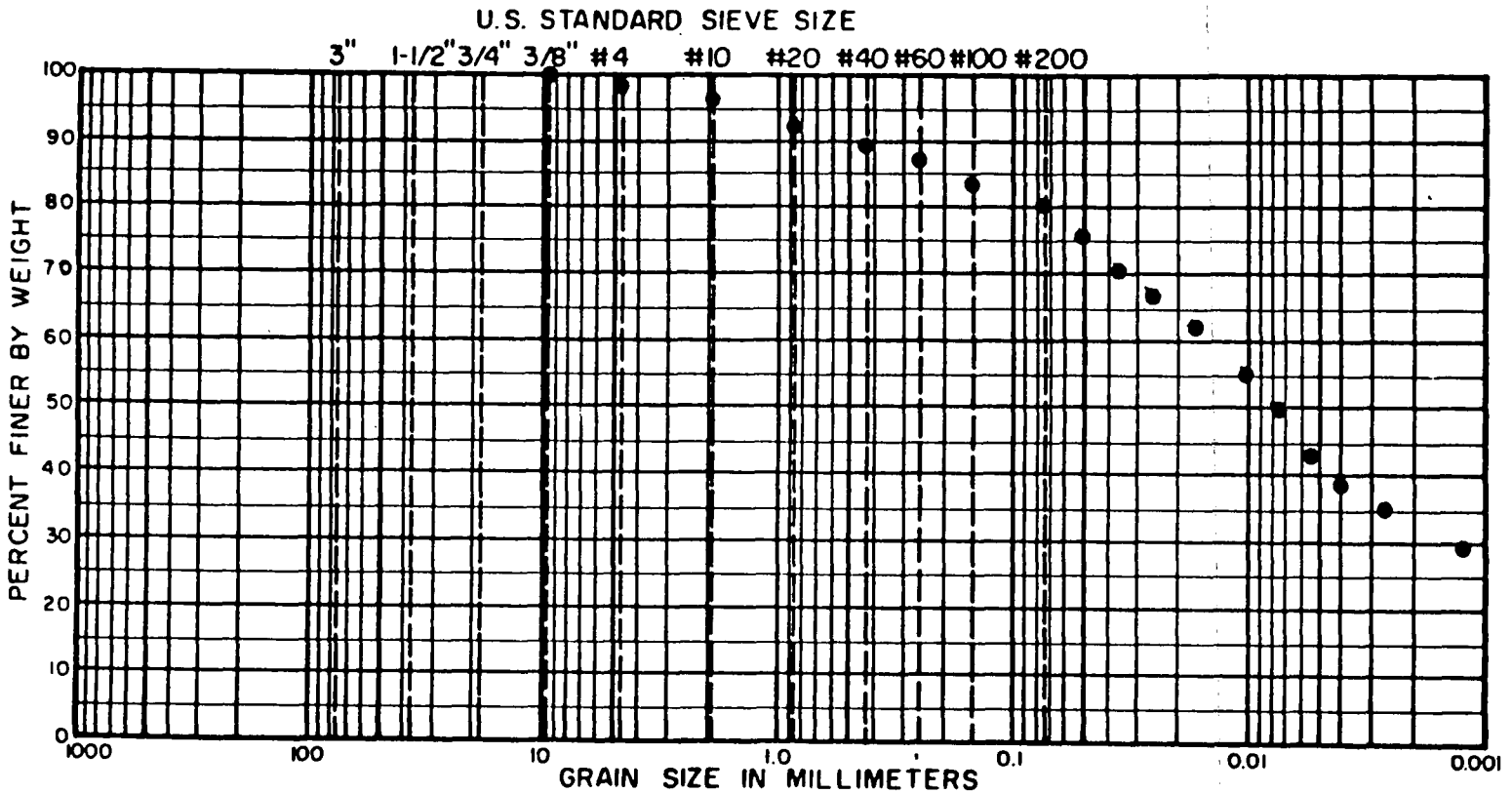
BORING NO.	G2-128	SAMPLED	4-18-95 MM
DEPTH	2.5-4.5'	DATE TESTED	6-8-95 CAL
SAMPLE NO.	405040	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	24.8
Sp. Gr. of Soil	2.76	Temp. Coef. K	0.01249
Value of "alpha"	0.98	Wt. Dry Sample "W"	58.444
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	4.0		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	50.00	45.00	75.3	75.3	8.09	0.0502
1.0	47.00	42.00	70.3	70.3	8.58	0.0366
2.0	45.00	40.00	66.9	66.9	8.91	0.0264
5.0	42.50	37.50	62.8	62.8	9.32	0.0171
15.0	38.00	33.00	55.2	55.2	10.06	0.0102
30.0	34.50	29.50	49.4	49.4	10.63	0.0074
60.0	31.00	26.00	43.5	43.5	11.21	0.0054
120.0	28.00	23.00	38.5	38.5	11.70	0.0039
250.0	26.00	21.00	35.1	35.1	12.03	0.0027
1262.0	22.50	17.50	29.3	29.3	12.60	0.0012

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

LOCATION	DEPTH	CLASSIFICATION
G2-128	2.5-4.5'	

405040

ADVANCED TERRA TESTING

368

000438

474

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13B

BORING NO.	G2-128	SAMPLED	4-18-95 MM
DEPTH	7.5-9.5'	DATE TESTED	6-8-95 CAL
SAMPLE NO.	405043	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC	Yes	
NATURAL	No	
Wt. Wet Soil & Pan	(g)	57.90
Wt. Dry Soil & Pan	(g)	57.37
Wt. Lost Moisture	(g)	0.53
Wt. of Pan Only	(g)	3.55
Wt. of Dry Soil	(g)	53.82
Moisture Content	%	1.0
Wt. Hydrom. Sample Wet	(g)	56.71
Wt. Hydrom. Sample Dry	(g)	56.15

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	718.93
Weight of + #10 Before Washing (g)	168.75
Weight of + #10 After Washing (g)	158.90
Weight of - #10 Wet (g)	550.18
Weight of - #10 Dry (g)	554.57
Wt. Total Sample Dry (g)	713.47
Calc. Wt. "W" (g)	72.24
Calc. Mass + #10	16.09

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	10.92	10.92	10.92	1.5	98.5
3/8"	0.00	34.08	34.08	45.00	6.3	93.7
#4	0.00	64.56	64.56	109.56	15.4	84.6
#10	0.00	49.34	49.34	158.90	22.3	77.7
#20	1.58	5.46	3.88	3.88	27.6	72.4
#40	1.57	4.24	2.67	6.55	31.3	68.7
#60	1.57	3.78	2.21	8.76	34.4	65.6
#100	1.60	3.99	2.39	11.15	37.7	62.3
#200	1.58	4.23	2.65	13.80	41.4	58.6

Data entered by: NAA Date: 6-12-95
Data checked by: WEB Date: 6-12-95
FileName:SAH05043

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13B

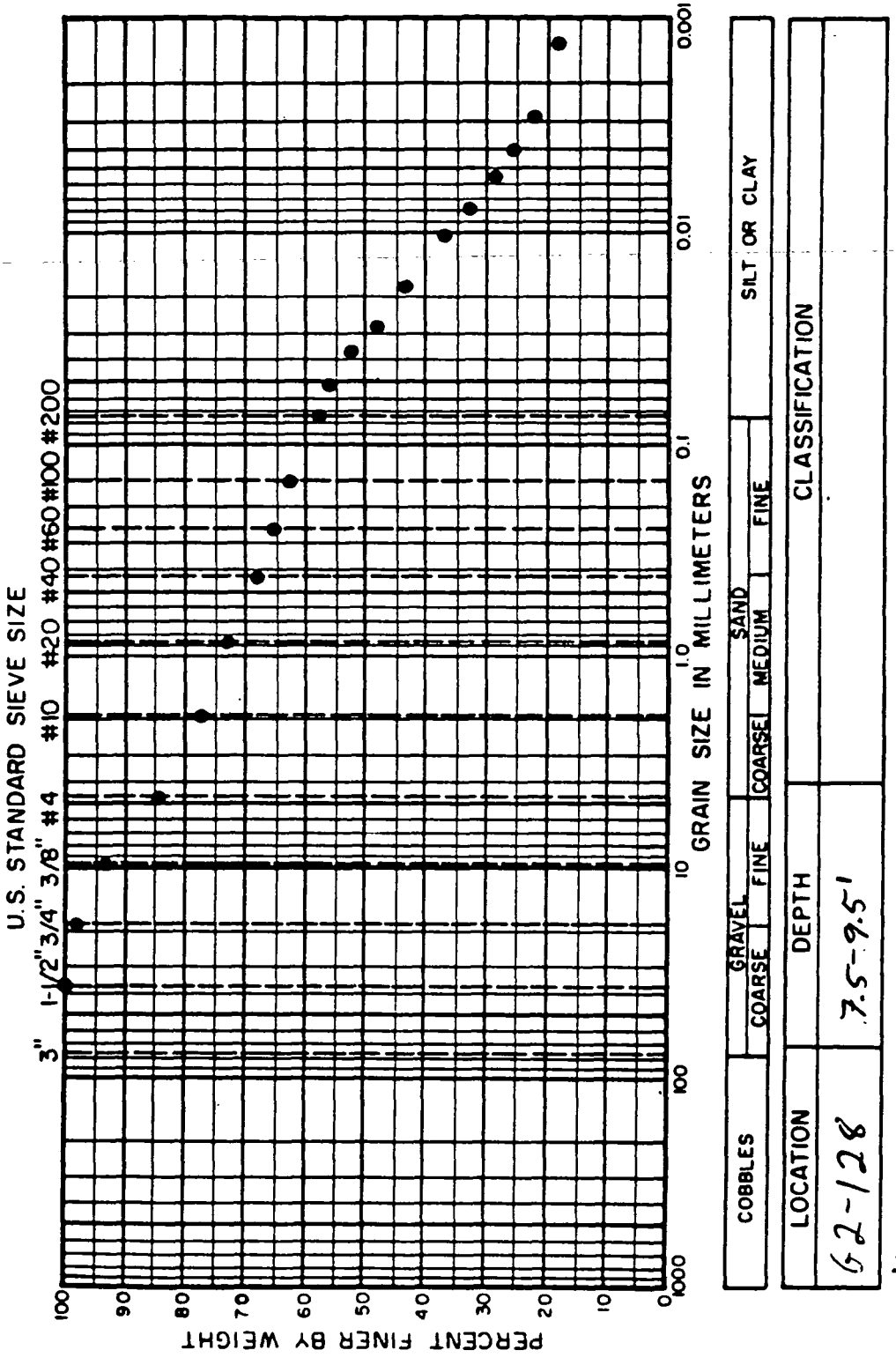
BORING NO.	G2-128	SAMPLED	4-18-95 MM
DEPTH	7.5-9.5'	DATE TESTED	6-8-95 CAL
SAMPLE NO.	405043	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	24.7
Sp. Gr. of Soil	2.78	Temp. Coef. K	0.01243
Value of "alpha"	0.97	Wt. Dry Sample "W"	72.241
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	4.0		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	47.00	42.00	56.6	56.6	8.58	0.0515
1.0	44.00	39.00	52.6	52.6	9.07	0.0374
2.0	41.00	36.00	48.5	48.5	9.57	0.0272
5.0	37.50	32.50	43.8	43.8	10.14	0.0177
15.0	32.50	27.50	37.1	37.1	10.96	0.0106
30.0	29.50	24.50	33.0	33.0	11.45	0.0077
60.0	26.50	21.50	29.0	29.0	11.94	0.0055
120.0	24.00	19.00	25.6	25.6	12.35	0.0040
250.0	21.50	16.50	22.2	22.2	12.76	0.0028
1276.0	18.50	13.50	18.2	18.2	13.26	0.0013

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



405043

ADVANCED TERRA TESTING

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13B

BORING NO.	G2-128	SAMPLED	4-19-95 MM
DEPTH	12.5-14.5'	DATE TESTED	6-8-95 REW
SAMPLE NO.	405046	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC	Yes	
NATURAL	No	
Wt. Wet Soil & Pan	(g)	67.93
Wt. Dry Soil & Pan	(g)	67.27
Wt. Lost Moisture	(g)	0.66
Wt. of Pan Only	(g)	3.83
Wt. of Dry Soil	(g)	63.44
Moisture Content	%	1.0
Wt. Hydrom. Sample Wet	(g)	57.93
Wt. Hydrom. Sample Dry	(g)	57.33

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	945.93
Weight of + #10 Before Washing (g)	337.33
Weight of + #10 After Washing (g)	317.44
Weight of - #10 Wet (g)	608.60
Weight of - #10 Dry (g)	622.02
Wt. Total Sample Dry (g)	939.46
Calc. Wt. "W" (g)	86.59
Calc. Mass + #10	29.26

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	111.37	111.37	111.37	11.9	88.1
3/8"	0.00	58.84	58.84	170.21	18.1	81.9
#4	0.00	77.07	77.07	247.28	26.3	73.7
#10	0.00	70.16	70.16	317.44	33.8	66.2
#20	1.58	5.94	4.36	4.36	38.8	61.2
#40	1.56	4.67	3.11	7.47	42.4	57.6
#60	1.57	3.77	2.20	9.67	45.0	55.0
#100	1.59	4.06	2.47	12.14	47.8	52.2
#200	1.58	4.61	3.03	15.17	51.3	48.7

Data entered by: NAA Date: 6-16-95
Data checked by: SR Date: 6-16-95
FileName:SAH05046

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

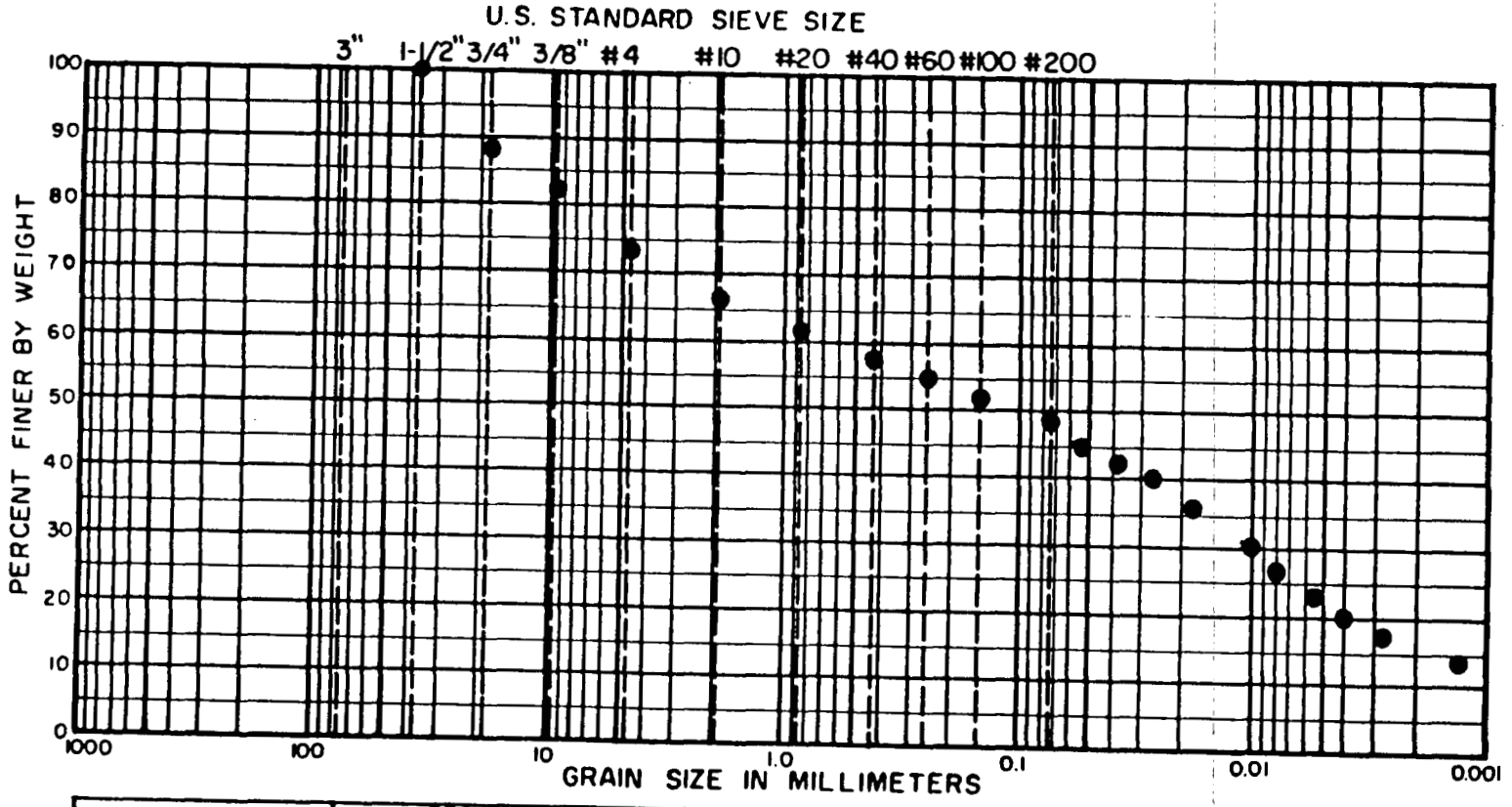
CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13B
BORING NO.	G2-128	SAMPLED	4-19-95 MM
DEPTH	12.5-14.5'	DATE TESTED	6-8-95 REW
SAMPLE NO.	405046	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	25.0
Sp. Gr. of Soil	2.73	Temp. Coef. K	0.01256
Value of "alpha"	0.98	Wt. Dry Sample "W"	86.590
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	4.5		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	45.00	39.50	44.9	44.9	8.91	0.0530
1.0	43.00	37.50	42.6	42.6	9.24	0.0382
2.0	41.00	35.50	40.3	40.3	9.57	0.0275
5.0	37.00	31.50	35.8	35.8	10.22	0.0180
15.0	32.00	26.50	30.1	30.1	11.04	0.0108
30.0	29.00	23.50	26.7	26.7	11.53	0.0078
60.0	26.00	20.50	23.3	23.3	12.03	0.0056
120.0	23.50	18.00	20.5	20.5	12.44	0.0040
250.0	21.00	15.50	17.6	17.6	12.85	0.0028
1162.0	18.00	12.50	14.2	14.2	13.34	0.0013

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

LOCATION	DEPTH	CLASSIFICATION
62-128	12.5-14.5'	

405046

ADVANCED TERRA TESTING

374

000144

474

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13B

BORING NO.	G2-128	SAMPLED	4-19-95 MM
DEPTH	17.5-19.5'	DATE TESTED	6-12-95 DPM, REW
SAMPLE NO.	405049	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC	Yes	
NATURAL	No	
Wt. Wet Soil & Pan	(g)	72.61
Wt. Dry Soil & Pan	(g)	72.13
Wt. Lost Moisture	(g)	0.48
Wt. of Pan Only	(g)	3.66
Wt. of Dry Soil	(g)	68.47
Moisture Content	%	0.7
Wt. Hydrom. Sample Wet	(g)	57.34
Wt. Hydrom. Sample Dry	(g)	56.94

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	1610.76
Weight of + #10 Before Washing (g)	355.52
Weight of + #10 After Washing (g)	331.63
Weight of - #10 Wet (g)	1255.24
Weight of - #10 Dry (g)	1270.23
Wt. Total Sample Dry (g)	1601.86
Calc. Wt. "W" (g)	71.81
Calc. Mass + #10	14.87

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	50.96	50.96	50.96	3.2	96.8
3/8"	0.00	79.77	79.77	130.73	8.2	91.8
#4	0.00	87.20	87.20	217.93	13.6	86.4
#10	0.00	113.70	113.70	331.63	20.7	79.3
#20	1.57	6.09	4.52	4.52	27.0	73.0
#40	1.32	4.59	3.27	7.79	31.6	68.4
#60	1.31	4.18	2.87	10.66	35.5	64.5
#100	1.59	4.80	3.21	13.87	40.0	60.0
#200	1.32	5.11	3.79	17.66	45.3	54.7

Data entered by: NAA Date: 6-28-95
Data checked by: [illegible] Date: 6-29-95
FileName: SAH05049

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

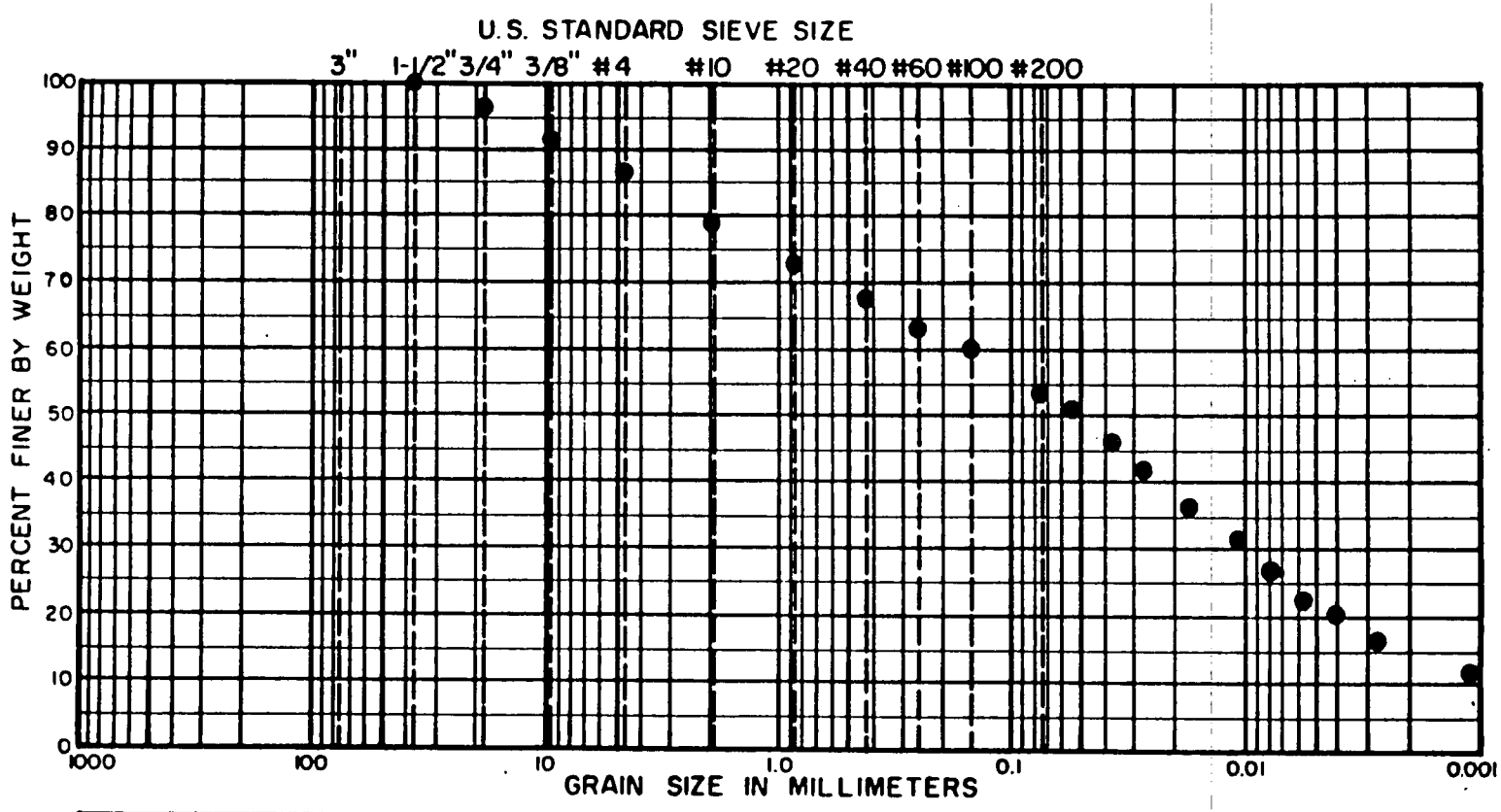
CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13B
BORING NO.	G2-128	SAMPLED	4-19-95 MM
DEPTH	17.5-19.5'	DATE TESTED	6-12-95 DPM, REW
SAMPLE NO.	405049	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	25.1
Sp. Gr. of Soil	2.77	Temp. Coef. K	0.01241
Value of "alpha"	0.98	Wt. Dry Sample "W"	71.809
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	5.0		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	43.00	37.00	50.3	50.3	9.24	0.0533
1.0	40.00	34.00	46.2	46.2	9.73	0.0387
2.0	37.00	31.00	42.1	42.1	10.22	0.0281
5.0	33.00	27.00	36.7	36.7	10.88	0.0183
15.0	29.00	23.00	31.3	31.3	11.53	0.0109
30.0	26.00	20.00	27.2	27.2	12.03	0.0079
60.0	23.00	17.00	23.1	23.1	12.52	0.0057
120.0	21.00	15.00	20.4	20.4	12.85	0.0041
250.0	19.00	13.00	17.7	17.7	13.17	0.0028
1152.0	16.00	10.00	13.6	13.6	13.67	0.0014

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

LOCATION	DEPTH	CLASSIFICATION
G2-128	17.5-19.5	

405049

ADVANCED TERRA TESTING

377

000447

474

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13B

BORING NO.	G2-129	SAMPLED	4-18-95 MG
DEPTH	5.0-7.5'	DATE TESTED	6-8-95 CAL
SAMPLE NO.	404729	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC	Yes	
NATURAL	No	
Wt. Wet Soil & Pan	(g)	67.39
Wt. Dry Soil & Pan	(g)	66.19
Wt. Lost Moisture	(g)	1.20
Wt. of Pan Only	(g)	3.70
Wt. of Dry Soil	(g)	62.49
Moisture Content	%	1.9
Wt. Hydrom. Sample Wet	(g)	56.57
Wt. Hydrom. Sample Dry	(g)	55.50

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	1365.65
Weight of + #10 Before Washing (g)	0.97
Weight of + #10 After Washing (g)	0.87
Weight of - #10 Wet (g)	1364.68
Weight of - #10 Dry (g)	1339.07
Wt. Total Sample Dry (g)	1339.94
Calc. Wt. "W" (g)	55.54
Calc. Mass + #10	0.04

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	0.00	0.00	0.00	0.0	100.0
3/8"	0.00	0.00	0.00	0.00	0.0	100.0
#4	0.00	0.00	0.00	0.00	0.0	100.0
#10	0.00	0.87	0.87	0.87	0.1	99.9
#20	1.56	1.68	0.12	0.12	0.3	99.7
#40	1.30	1.38	0.08	0.20	0.4	99.6
#60	1.57	1.65	0.08	0.28	0.6	99.4
#100	1.59	1.70	0.11	0.39	0.8	99.2
#200	1.58	2.00	0.42	0.81	1.5	98.5

Data entered by: NAA Date: 6-8-95
Data checked by: WEB Date: 6-15-95
FileName:SAH0729

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13B

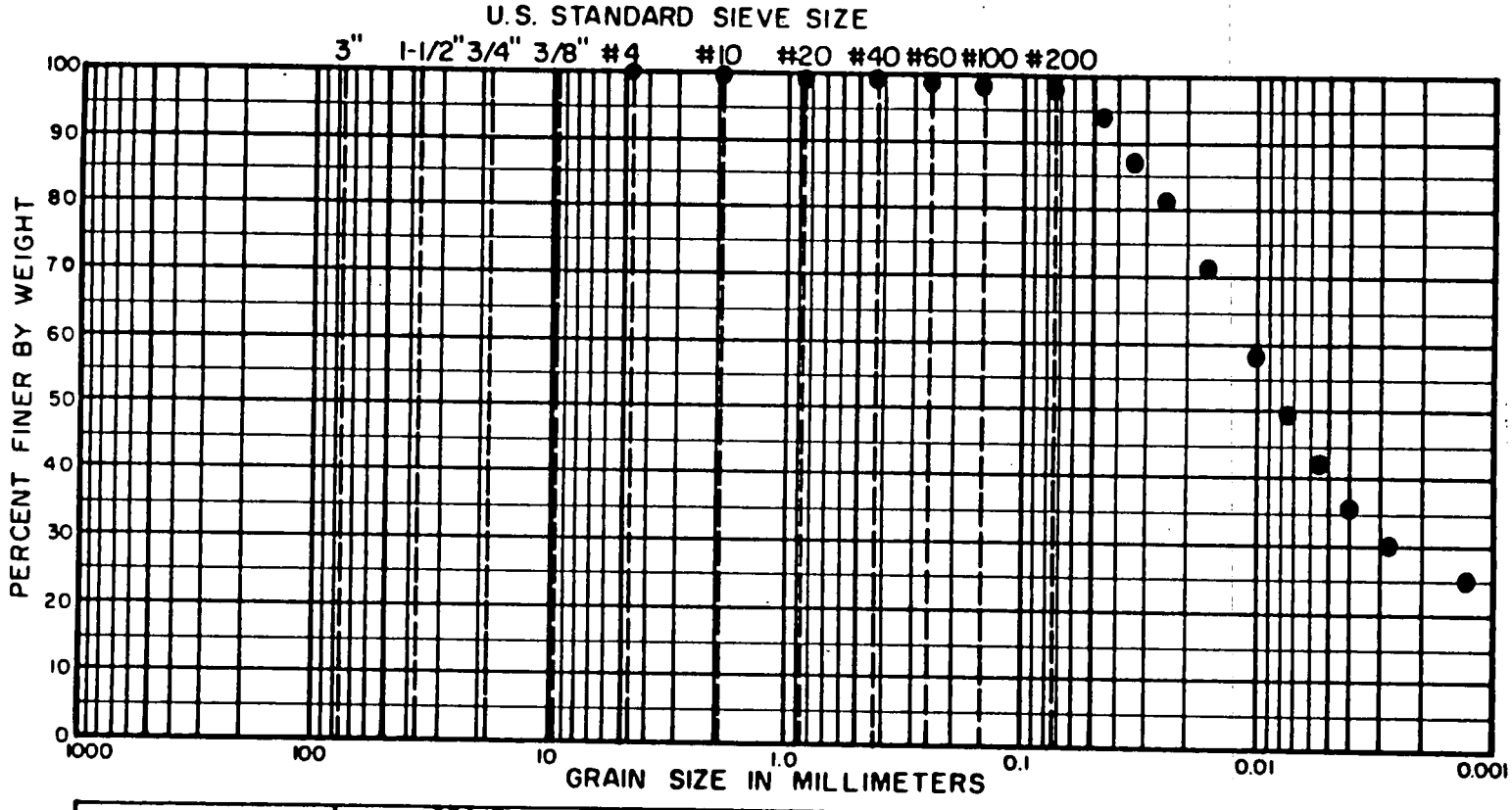
BORING NO.	G2-129	SAMPLED	4-18-95 MG
DEPTH	5.0-7.5'	DATE TESTED	6-8-95 CAL
SAMPLE NO.	404729	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	24.9
Sp. Gr. of Soil	2.72	Temp. Coef. K	0.01265
Value of "alpha"	0.99	Wt. Dry Sample "W"	55.540
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	4.0		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	58.00	53.00	94.1	94.1	6.78	0.0466
1.0	54.00	49.00	87.0	87.0	7.43	0.0345
2.0	50.50	45.50	80.8	80.8	8.01	0.0253
5.0	45.00	40.00	71.0	71.0	8.91	0.0169
15.0	38.00	33.00	58.6	58.6	10.06	0.0104
30.0	33.00	28.00	49.7	49.7	10.88	0.0076
60.0	28.50	23.50	41.7	41.7	11.62	0.0056
120.0	25.00	20.00	35.5	35.5	12.19	0.0040
250.0	22.00	17.00	30.2	30.2	12.68	0.0028
1245.0	19.00	14.00	24.9	24.9	13.17	0.0013

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

LOCATION	DEPTH	CLASSIFICATION
62-129	5.0-7.5'	

404729

ADVANCED TERRA TESTING

380

000450

474

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13B

BORING NO.	G2-129	SAMPLED	4-18-95
DEPTH	10.0-12.5'	DATE TESTED	6-8-95 RW, REW
SAMPLE NO.	404732	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC Yes

NATURAL No

Wt. Wet Soil & Pan	(g)	72.62
Wt. Dry Soil & Pan	(g)	71.97
Wt. Lost Moisture	(g)	0.65
Wt. of Pan Only	(g)	3.72
Wt. of Dry Soil	(g)	68.25
Moisture Content	%	1.0

Wt. Hydrom. Sample Wet (g)	59.49
Wt. Hydrom. Sample Dry (g)	58.93

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	1473.77
Weight of + #10 Before Washing (g)	250.25
Weight of + #10 After Washing (g)	236.02
Weight of - #10 Wet (g)	1223.52
Weight of - #10 Dry (g)	1226.07
Wt. Total Sample Dry (g)	1462.09
Calc. Wt. "W" (g)	70.27
Calc. Mass + #10	11.34

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	13.60	13.60	13.60	0.9	99.1
3/8"	0.00	29.59	29.59	43.19	3.0	97.0
#4	0.00	89.27	89.27	132.46	9.1	90.9
#10	0.00	103.56	103.56	236.02	16.1	83.9
#20	1.57	5.34	3.77	3.77	21.5	78.5
#40	1.57	4.94	3.37	7.14	26.3	73.7
#60	1.58	4.61	3.03	10.17	30.6	69.4
#100	1.58	4.72	3.14	13.31	35.1	64.9
#200	1.58	5.51	3.93	17.24	40.7	59.3

Data entered by: NAA Date: 6-8-95
Data checked by: WEB Date: 6-15-95
FileName:SAH0732

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13B
BORING NO.	G2-129	SAMPLED	4-18-95
DEPTH	10.0-12.5'	DATE TESTED	6-8-95 RW, REW
SAMPLE NO.	404732	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	24.7
Sp. Gr. of Soil	2.78	Temp. Coef. K	0.01243
Value of "alpha"	0.97	Wt. Dry Sample "W"	70.275
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	4.5		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	43.00	37.50	52.0	52.0	9.24	0.0534
1.0	41.50	36.00	49.9	49.9	9.48	0.0383
2.0	38.50	33.00	45.7	45.7	9.98	0.0278
5.0	34.00	28.50	39.5	39.5	10.71	0.0182
15.0	29.00	23.50	32.6	32.6	11.53	0.0109
30.0	26.00	20.50	28.4	28.4	12.03	0.0079
60.0	24.00	18.50	25.6	25.6	12.35	0.0056
120.0	21.00	15.50	21.5	21.5	12.85	0.0041
250.0	19.00	13.50	18.7	18.7	13.17	0.0029
1210.0	16.00	10.50	14.6	14.6	13.67	0.0013

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.

MECHANICAL ANALYSIS - SIEVE TEST DATA

ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13B

BORING NO.	G2-129	SAMPLED	4-19-95 MG
DEPTH	24.0-26.5'	DATE TESTED	6-8-95 DPM, CAL
SAMPLE NO.	404740	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC Yes

NATURAL No

Wt. Wet Soil & Pan	(g)	69.31
Wt. Dry Soil & Pan	(g)	68.84
Wt. Lost Moisture	(g)	0.47
Wt. of Pan Only	(g)	3.67
Wt. of Dry Soil	(g)	65.17
Moisture Content	%	0.7

Wt. Hydrom. Sample Wet (g)	58.08
Wt. Hydrom. Sample Dry (g)	57.66

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	2385.62
Weight of + #10 Before Washing (g)	297.43
Weight of + #10 After Washing (g)	268.81
Weight of - #10 Wet (g)	2088.19
Weight of - #10 Dry (g)	2101.65
Wt. Total Sample Dry (g)	2370.46
Calc. Wt. "W" (g)	65.04
Calc. Mass + #10	7.38

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	18.86	18.86	18.86	0.8	99.2
3/8"	0.00	57.12	57.12	75.98	3.2	96.8
#4	0.00	80.98	80.98	156.96	6.6	93.4
#10	0.00	111.85	111.85	268.81	11.3	88.7
#20	1.57	5.35	3.78	3.78	17.2	82.8
#40	1.55	4.72	3.17	6.95	22.0	78.0
#60	1.58	5.03	3.45	10.40	27.3	72.7
#100	1.58	5.51	3.93	14.33	33.4	66.6
#200	1.58	5.78	4.20	18.53	39.8	60.2

Data entered by: NAA Date: 6-8-95

Data checked by: WEB Date: 6-15-95

FileName:SAH0740

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13B

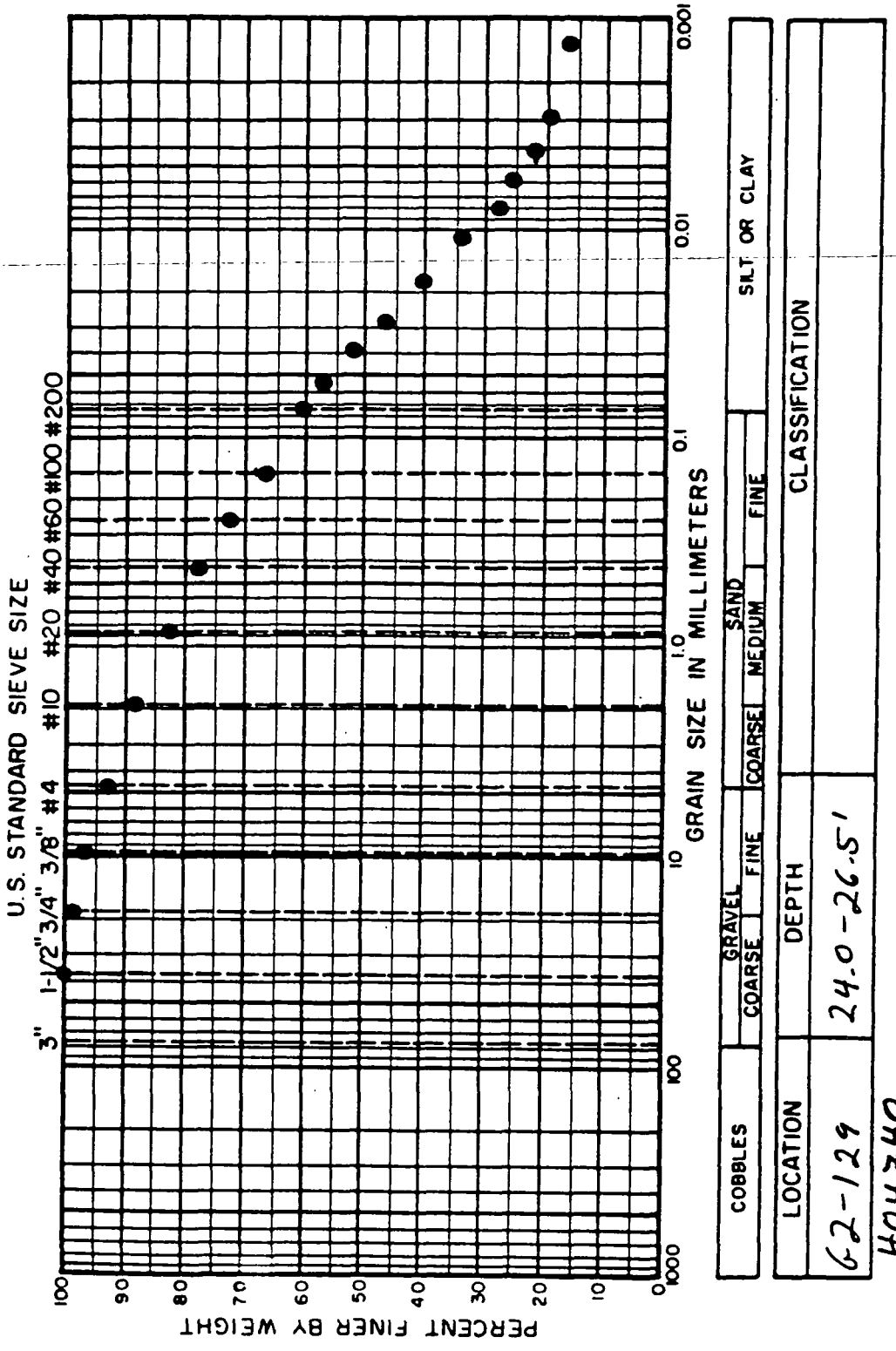
BORING NO.	G2-129	SAMPLED	4-19-95 MG
DEPTH	24.0-26.5'	DATE TESTED	6-8-95 DPM, CAL
SAMPLE NO.	404740	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	25.0
Sp. Gr. of Soil	2.73	Temp. Coef. K	0.01256
Value of "alpha"	0.98	Wt. Dry Sample "W"	65.036
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	4.0		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	43.00	38.00	57.5	57.5	9.24	0.0540
1.0	39.50	34.50	52.2	52.2	9.81	0.0393
2.0	36.00	31.00	46.9	46.9	10.39	0.0286
5.0	31.50	26.50	40.1	40.1	11.12	0.0187
15.0	27.50	22.50	34.0	34.0	11.78	0.0111
30.0	24.00	19.00	28.7	28.7	12.35	0.0081
60.0	22.00	17.00	25.7	25.7	12.68	0.0058
120.0	19.50	14.50	21.9	21.9	13.09	0.0041
250.0	18.00	13.00	19.7	19.7	13.34	0.0029
1224.0	16.00	11.00	16.6	16.6	13.67	0.0013

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



ADVANCED TERRA TESTING

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13H

BORING NO.	G2-130	SAMPLED	5-25-95 MM
DEPTH	5.0-7.0'	DATE TESTED	6-14-95 DPM, REW
SAMPLE NO.	405075	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC Yes

NATURAL No

Wt. Wet Soil & Pan	(g)	81.55
Wt. Dry Soil & Pan	(g)	81.05
Wt. Lost Moisture	(g)	0.50
Wt. of Pan Only	(g)	8.34
Wt. of Dry Soil	(g)	72.71
Moisture Content	%	0.7

Wt. Hydrom. Sample Wet (g)	58.56
Wt. Hydrom. Sample Dry (g)	58.16

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	1594.75
Weight of + #10 Before Washing (g)	130.88
Weight of + #10 After Washing (g)	118.72
Weight of - #10 Wet (g)	1463.87
Weight of - #10 Dry (g)	1465.95
Wt. Total Sample Dry (g)	1584.67

Calc. Wt. "W" (g)	62.87
Calc. Mass + #10	4.71

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	0.00	0.00	0.00	0.0	100.0
3/8"	0.00	42.46	42.46	42.46	2.7	97.3
#4	0.00	45.91	45.91	88.37	5.6	94.4
#10	0.00	30.35	30.35	118.72	7.5	92.5
#20	1.59	4.50	2.91	2.91	12.1	87.9
#40	1.60	3.85	2.25	5.16	15.7	84.3
#60	1.59	3.56	1.97	7.13	18.8	81.2
#100	1.60	3.94	2.34	9.47	22.6	77.4
#200	1.58	4.67	3.09	12.56	27.5	72.5

Data entered by: NAA Date: 6-19-95
Data checked by: WEB Date: 6-20-95
FileName:SAH05075

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

CLIENT SAIC/Parsons PO 140 JOB NO. 2059-13H

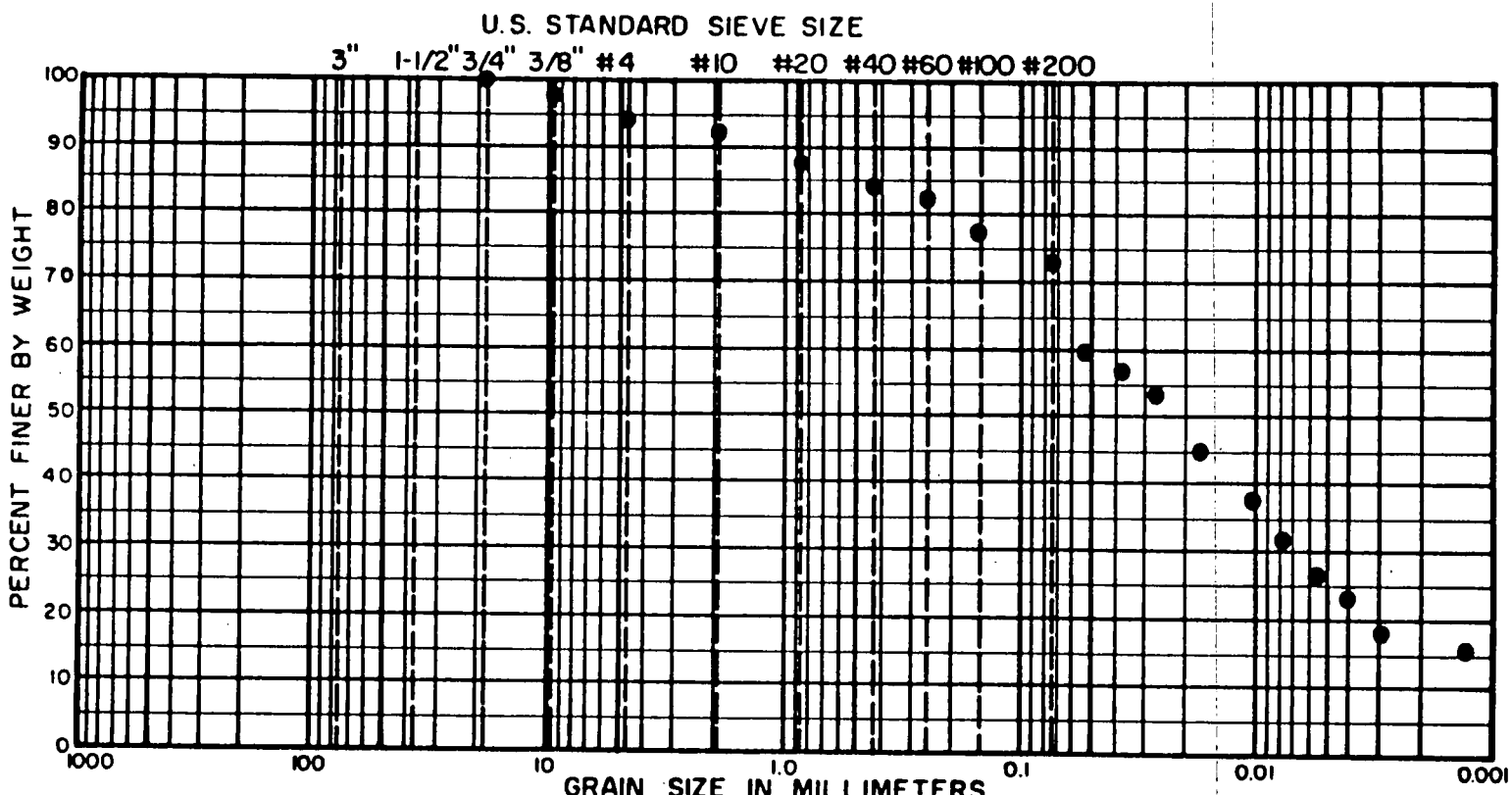
BORING NO.	G2-130	SAMPLED	5-25-95 MM
DEPTH	5.0-7.0'	DATE TESTED	6-14-95 DPM, REW
SAMPLE NO.	405075	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	26.3
Sp. Gr. of Soil	2.75	Temp. Coef. K	0.01231
Value of "alpha"	0.98	Wt. Dry Sample "W"	62.874
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	5.0		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	44.00	38.00	59.2	59.2	9.07	0.0524
1.0	42.50	36.50	56.9	56.9	9.32	0.0376
2.0	40.00	34.00	53.0	53.0	9.73	0.0272
5.0	35.00	29.00	45.2	45.2	10.55	0.0179
15.0	30.00	24.00	37.4	37.4	11.37	0.0107
30.0	26.00	20.00	31.2	31.2	12.03	0.0078
60.0	23.00	17.00	26.5	26.5	12.52	0.0056
120.0	21.00	15.00	23.4	23.4	12.85	0.0040
250.0	18.00	12.00	18.7	18.7	13.34	0.0028
1258.0	16.00	10.00	15.6	15.6	13.67	0.0013

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

LOCATION	DEPTH	CLASSIFICATION
62-130	5.0-7.0'	

405075

ADVANCED TERRA TESTING

389

000458

474

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13H

BORING NO.	G2-130	SAMPLED	4-25-95 MM
DEPTH	10.0-12.0'	DATE TESTED	6-15-95 DPM, REW
SAMPLE NO.	405077	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC	Yes	
NATURAL	No	
Wt. Wet Soil & Pan	(g)	76.51
Wt. Dry Soil & Pan	(g)	76.00
Wt. Lost Moisture	(g)	0.51
Wt. of Pan Only	(g)	3.73
Wt. of Dry Soil	(g)	72.27
Moisture Content	%	0.7
Wt. Hydrom. Sample Wet	(g)	58.62
Wt. Hydrom. Sample Dry	(g)	58.21

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	1637.59
Weight of + #10 Before Washing (g)	118.26
Weight of + #10 After Washing (g)	106.79
Weight of - #10 Wet (g)	1519.33
Weight of - #10 Dry (g)	1520.07
Wt. Total Sample Dry (g)	1626.86
Calc. Wt. "W" (g)	62.30
Calc. Mass + #10	4.09

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	0.00	0.00	0.00	0.0	100.0
3/8"	0.00	26.33	26.33	26.33	1.6	98.4
#4	0.00	35.08	35.08	61.41	3.8	96.2
#10	0.00	45.38	45.38	106.79	6.6	93.4
#20	1.57	4.04	2.47	2.47	10.5	89.5
#40	1.57	3.33	1.76	4.23	13.4	86.6
#60	1.57	3.09	1.52	5.75	15.8	84.2
#100	1.31	3.20	1.89	7.64	18.8	81.2
#200	1.57	4.26	2.69	10.33	23.1	76.9

Data entered by: NAA Date: 6-26-95
Data checked by: cal Date: 6-29-95
FileName:SAH05077

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

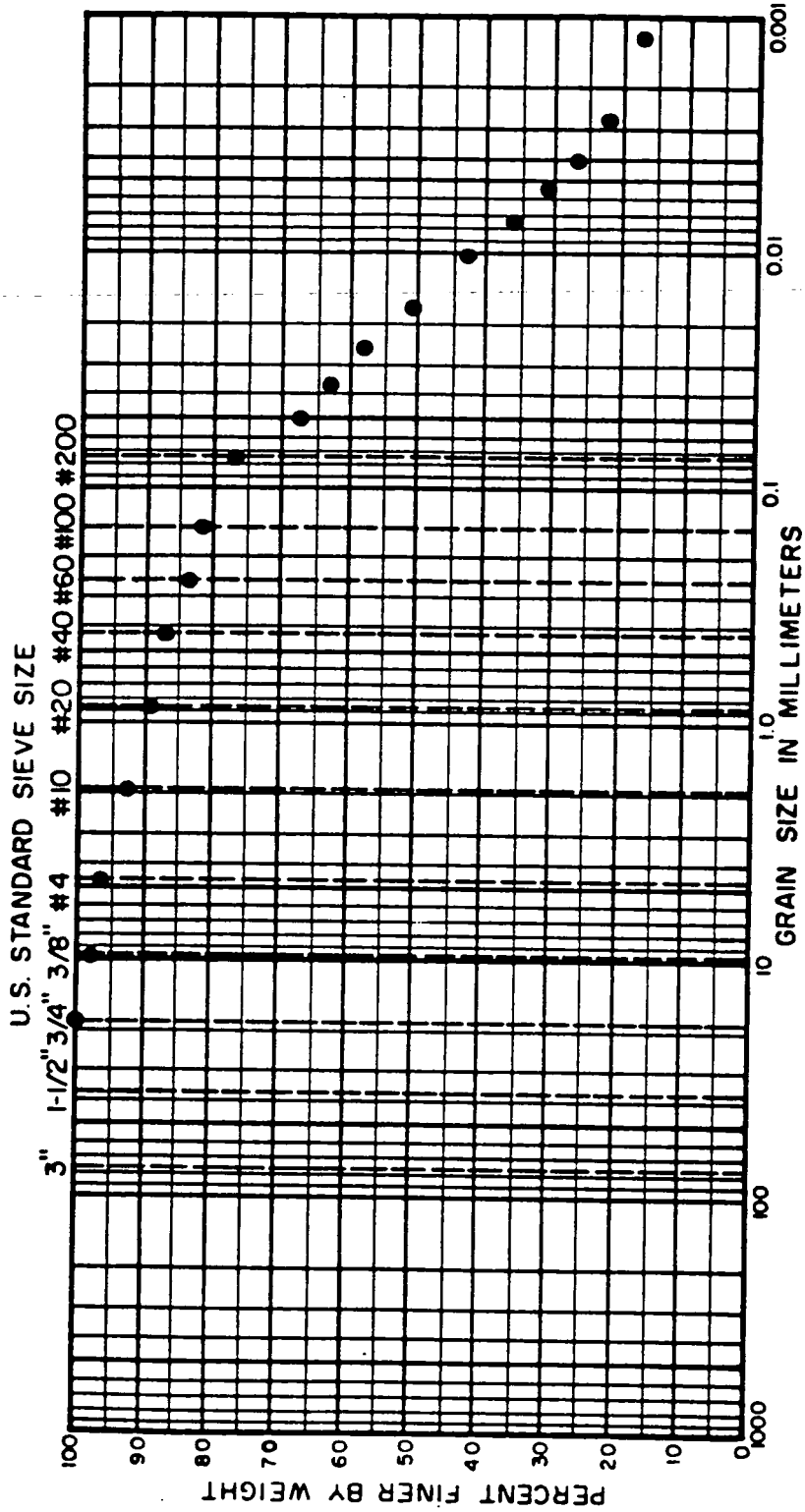
CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13H
BORING NO.	G2-130	SAMPLED	4-25-95 MM
DEPTH	10.0-12.0'	DATE TESTED	6-15-95 DPM, REW
SAMPLE NO.	405077	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	26.2
Sp. Gr. of Soil	2.75	Temp. Coef. K	0.01232
Value of "alpha"	0.98	Wt. Dry Sample "W"	62.303
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	5.0		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	49.00	43.00	67.6	67.6	8.25	0.0501
1.0	46.25	40.25	63.3	63.3	8.71	0.0364
2.0	43.00	37.00	58.2	58.2	9.24	0.0265
5.0	38.00	32.00	50.3	50.3	10.06	0.0175
15.0	33.00	27.00	42.5	42.5	10.88	0.0105
30.0	29.00	23.00	36.2	36.2	11.53	0.0076
60.0	25.50	19.50	30.7	30.7	12.11	0.0055
120.0	22.50	16.50	26.0	26.0	12.60	0.0040
250.0	20.00	14.00	22.0	22.0	13.01	0.0028
1440.0	17.00	11.00	17.3	17.3	13.50	0.0012

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



LOCATION	DEPTH	CLASSIFICATION
G2-130	10.0-12.0'	

405077

ADVANCED TERRA TESTING

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13H

BORING NO.	G2-130	SAMPLED	4-25-95 MM
DEPTH	15.0-17.0'	DATE TESTED	6-12-95 DPM, REW
SAMPLE NO.	405080	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC	Yes	
NATURAL	No	
Wt. Wet Soil & Pan	(g)	66.50
Wt. Dry Soil & Pan	(g)	66.07
Wt. Lost Moisture	(g)	0.43
Wt. of Pan Only	(g)	3.71
Wt. of Dry Soil	(g)	62.36
Moisture Content	%	0.7
Wt. Hydrom. Sample Wet	(g)	55.54
Wt. Hydrom. Sample Dry	(g)	55.16

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	1666.78
Weight of + #10 Before Washing (g)	224.87
Weight of + #10 After Washing (g)	215.08
Weight of - #10 Wet (g)	1441.91
Weight of - #10 Dry (g)	1441.76
Wt. Total Sample Dry (g)	1656.84
Calc. Wt. "W" (g)	63.39
Calc. Mass + #10	8.23

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	65.41	65.41	65.41	3.9	96.1
3/8"	0.00	42.67	42.67	108.08	6.5	93.5
#4	0.00	52.38	52.38	160.46	9.7	90.3
#10	0.00	54.62	54.62	215.08	13.0	87.0
#20	1.56	4.98	3.42	3.42	18.4	81.6
#40	1.58	4.66	3.08	6.50	23.2	76.8
#60	1.60	4.81	3.21	9.71	28.3	71.7
#100	1.58	5.70	4.12	13.83	34.8	65.2
#200	1.58	7.00	5.42	19.25	43.3	56.7

Data entered by: NAA Date: 6-26-95
Data checked by: cal Date: 6-29-95
FileName:SAH05080

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13H

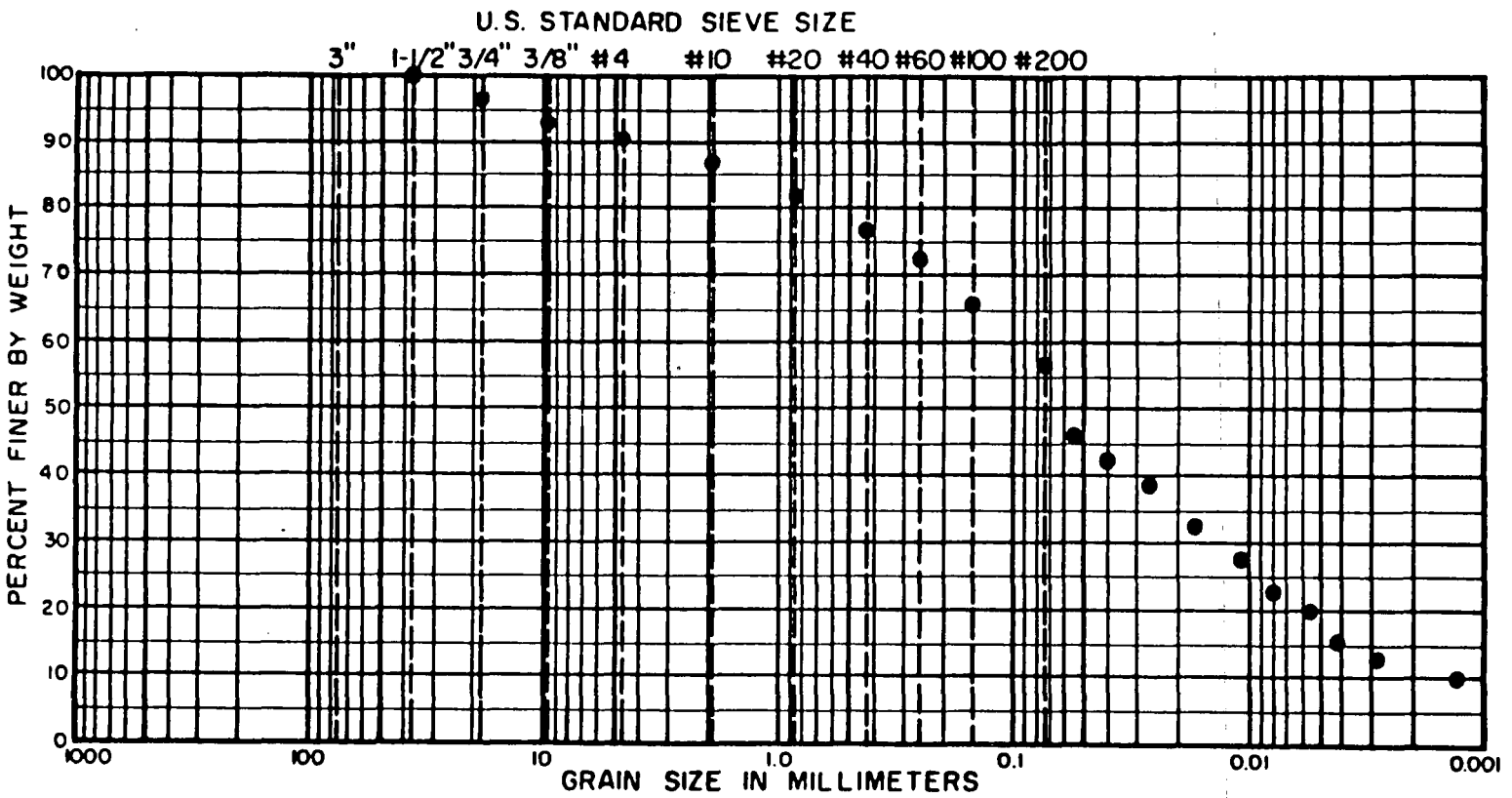
BORING NO.	G2-130	SAMPLED	4-25-95 MM
DEPTH	15.0-17.0'	DATE TESTED	6-12-95 DPM, REW
SAMPLE NO.	405080	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	26.1
Sp. Gr. of Soil	2.79	Temp. Coef. K	0.01220
Value of "alpha"	0.97	Wt. Dry Sample "W"	63.391
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	5.0		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	36.00	30.00	46.0	46.0	10.39	0.0556
1.0	33.50	27.50	42.2	42.2	10.80	0.0401
2.0	31.00	25.00	38.3	38.3	11.21	0.0289
5.0	27.00	21.00	32.2	32.2	11.86	0.0188
15.0	24.00	18.00	27.6	27.6	12.35	0.0111
30.0	21.00	15.00	23.0	23.0	12.85	0.0080
60.0	19.00	13.00	19.9	19.9	13.17	0.0057
120.0	16.00	10.00	15.3	15.3	13.67	0.0041
250.0	15.00	9.00	13.8	13.8	13.83	0.0029
1301.0	12.50	6.50	10.0	10.0	14.24	0.0013

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

LOCATION	DEPTH	CLASSIFICATION
G2-130	15.0 - 17.0'	

405080

ADVANCED TERRA TESTING

395

000464

474

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13H

BORING NO.	G2-130	SAMPLED	4-25-95 MM
DEPTH	20.0-22.0'	DATE TESTED	6-9-95 DPM, REW
SAMPLE NO.	405083	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC Yes

NATURAL No

Wt. Wet Soil & Pan	(g)	68.62
Wt. Dry Soil & Pan	(g)	68.23
Wt. Lost Moisture	(g)	0.39
Wt. of Pan Only	(g)	3.91
Wt. of Dry Soil	(g)	64.32
Moisture Content	%	0.6

Wt. Hydrom. Sample Wet (g)	56.31
Wt. Hydrom. Sample Dry (g)	55.97

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	804.83
Weight of + #10 Before Washing (g)	85.62
Weight of + #10 After Washing (g)	78.47
Weight of - #10 Wet (g)	719.21
Weight of - #10 Dry (g)	721.98
Wt. Total Sample Dry (g)	800.45
Calc. Wt. "W" (g)	62.05
Calc. Mass + #10	6.08

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	0.00	0.00	0.00	0.0	100.0
3/8"	0.00	14.86	14.86	14.86	1.9	98.1
#4	0.00	27.90	27.90	42.76	5.3	94.7
#10	0.00	35.71	35.71	78.47	9.8	90.2
#20	1.57	4.42	2.85	2.85	14.4	85.6
#40	1.58	3.65	2.07	4.92	17.7	82.3
#60	1.33	3.18	1.85	6.77	20.7	79.3
#100	1.60	3.96	2.36	9.13	24.5	75.5
#200	1.31	4.48	3.17	12.30	29.6	70.4

Data entered by: NAA Date: 6-27-95
Data checked by: cal Date: 6-29-95
FileName:SAH05083

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

CLIENT SAIC/Parsons PO 140 JOB NO. 2059-13H

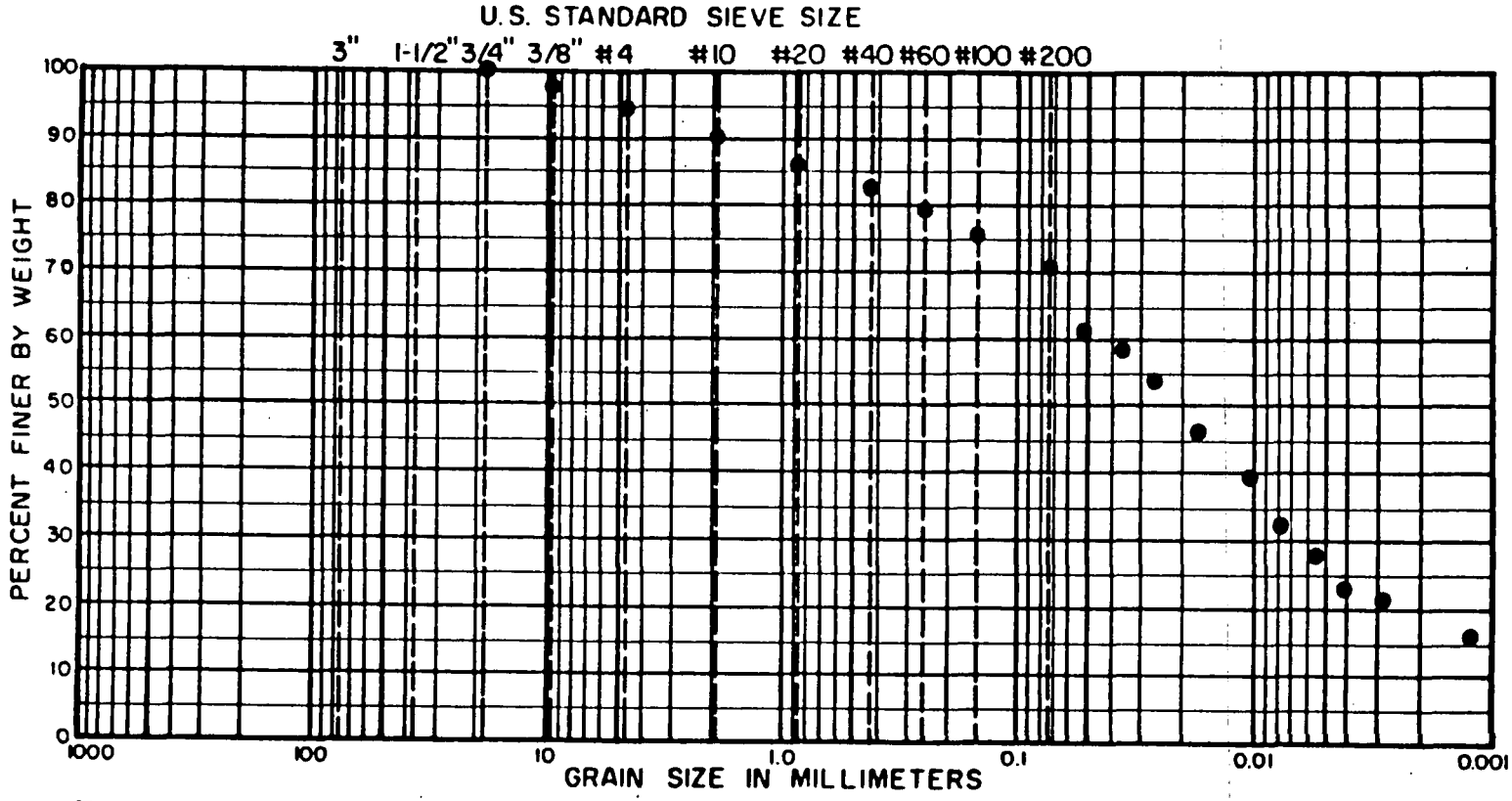
BORING NO.	G2-130	SAMPLED	4-25-95 MM
DEPTH	20.0-22.0'	DATE TESTED	6-9-95 DPM, REW
SAMPLE NO.	405083	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	26.2
Sp. Gr. of Soil	2.79	Temp. Coef. K	0.01219
Value of "alpha"	0.97	Wt. Dry Sample "W"	62.053
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	5.0		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	45.00	39.00	61.1	61.1	8.91	0.0515
1.0	43.00	37.00	58.0	58.0	9.24	0.0371
2.0	40.00	34.00	53.3	53.3	9.73	0.0269
5.0	35.50	29.50	46.2	46.2	10.47	0.0176
15.0	31.00	25.00	39.2	39.2	11.21	0.0105
30.0	27.00	21.00	32.9	32.9	11.86	0.0077
60.0	24.00	18.00	28.2	28.2	12.35	0.0055
120.0	21.00	15.00	23.5	23.5	12.85	0.0040
250.0	19.50	13.50	21.1	21.1	13.09	0.0028
1296.0	16.00	10.00	15.7	15.7	13.67	0.0013

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

LOCATION	DEPTH	CLASSIFICATION
62-130	20.0-22.0'	

405083

ADVANCED TERRA TESTING

398

474

000467

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13H

BORING NO.	G2-130	SAMPLED	4-25-95 MM
DEPTH	30.0-32.0'	DATE TESTED	6-14-95 REW
SAMPLE NO.	405088	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC	Yes	
NATURAL	No	
Wt. Wet Soil & Pan	(g)	103.06
Wt. Dry Soil & Pan	(g)	102.36
Wt. Lost Moisture	(g)	0.70
Wt. of Pan Only	(g)	8.29
Wt. of Dry Soil	(g)	94.07
Moisture Content	%	0.7
Wt. Hydrom. Sample Wet	(g)	56.02
Wt. Hydrom. Sample Dry	(g)	55.60

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	1953.96
Weight of + #10 Before Washing (g)	276.56
Weight of + #10 After Washing (g)	242.78
Weight of - #10 Wet (g)	1677.40
Weight of - #10 Dry (g)	1698.54
Wt. Total Sample Dry (g)	1941.32
Calc. Wt. "W" (g)	63.55
Calc. Mass + #10	7.95

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	44.99	44.99	44.99	2.3	97.7
3/8"	0.00	39.79	39.79	84.78	4.4	95.6
#4	0.00	87.55	87.55	172.33	8.9	91.1
#10	0.00	70.45	70.45	242.78	12.5	87.5
#20	1.58	5.23	3.65	3.65	18.2	81.8
#40	1.60	4.45	2.85	6.50	22.7	77.3
#60	1.58	4.19	2.61	9.11	26.8	73.2
#100	1.58	4.27	2.69	11.80	31.1	68.9
#200	1.57	5.47	3.90	15.70	37.2	62.8

Data entered by: NAA Date: 6-16-95
Data checked by: SR Date: 6-16-95
FileName:SAH05088

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

CLIENT SAIC/Parsons PO 140 JOB NO. 2059-13H

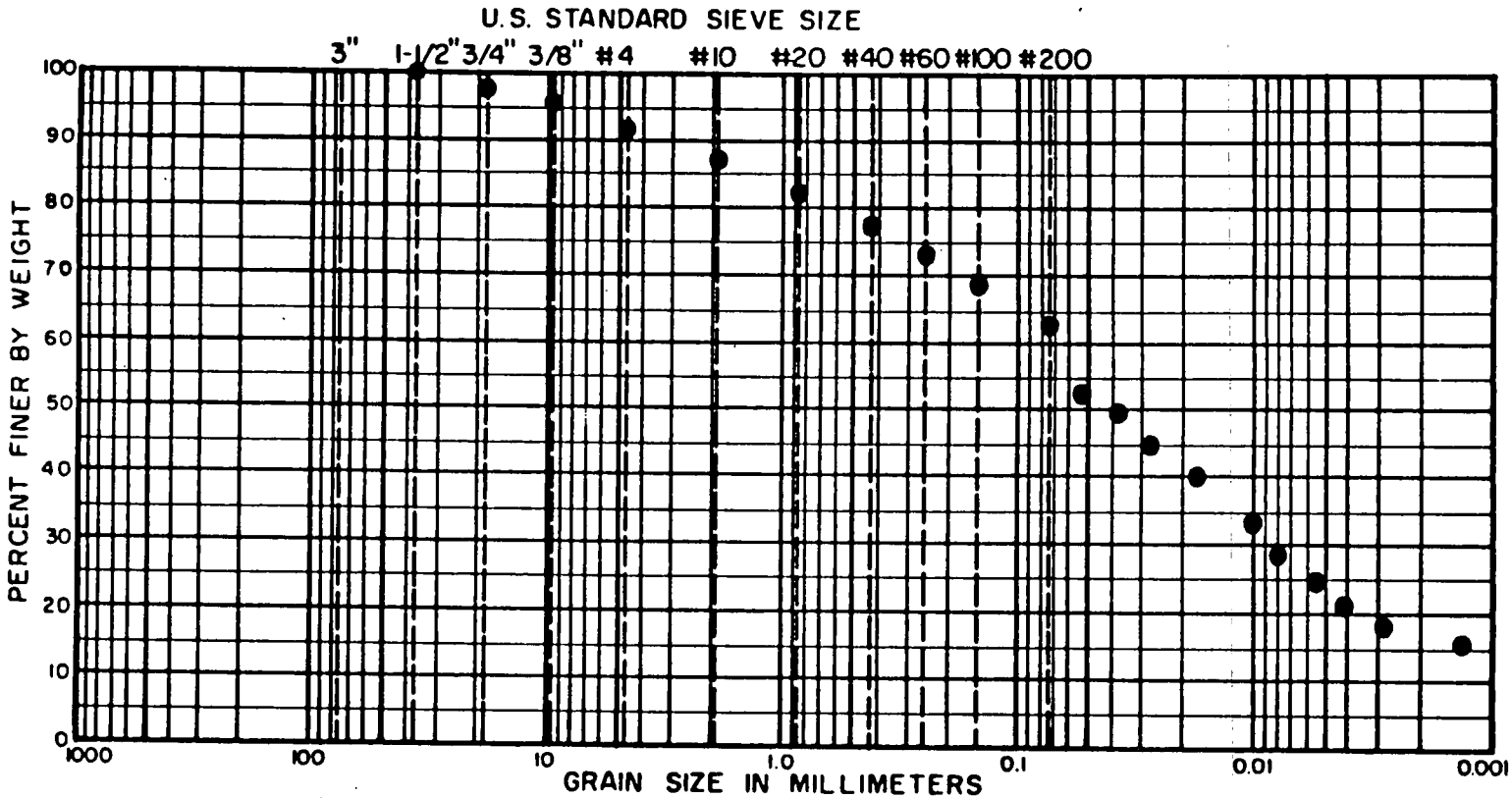
BORING NO.	G2-130	SAMPLED	4-25-95 MM
DEPTH	30.0-32.0'	DATE TESTED	6-14-95 REW
SAMPLE NO.	405088	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	26.5
Sp. Gr. of Soil	2.74	Temp. Coef. K	0.01232
Value of "alpha"	0.98	Wt. Dry Sample "W"	63.551
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	5.0		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	40.00	34.00	52.5	52.5	9.73	0.0543
1.0	38.00	32.00	49.4	49.4	10.06	0.0391
2.0	35.00	29.00	44.8	44.8	10.55	0.0283
5.0	32.00	26.00	40.2	40.2	11.04	0.0183
15.0	27.50	21.50	33.2	33.2	11.78	0.0109
30.0	24.50	18.50	28.6	28.6	12.27	0.0079
60.0	22.00	16.00	24.7	24.7	12.68	0.0057
120.0	20.00	14.00	21.6	21.6	13.01	0.0041
250.0	18.00	12.00	18.5	18.5	13.34	0.0028
1238.0	16.00	10.00	15.5	15.5	13.67	0.0013

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

LOCATION	DEPTH	CLASSIFICATION
62-130	30.0-32.0'	

405088

ADVANCED TERRA TESTING

401

000470

474

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13L

BORING NO.	G2-130	SAMPLED	4-25-95 MM
DEPTH	40.0-41.5'	DATE TESTED	6-27-95 DPM
SAMPLE NO.	405091	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC Yes

NATURAL No

Wt. Wet Soil & Pan	(g)	57.65
Wt. Dry Soil & Pan	(g)	57.56
Wt. Lost Moisture	(g)	0.09
Wt. of Pan Only	(g)	3.70
Wt. of Dry Soil	(g)	53.86
Moisture Content	%	0.2

Wt. Hydrom. Sample Wet (g)	55.68
Wt. Hydrom. Sample Dry (g)	55.59

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	474.26
Weight of + #10 Before Washing (g)	3.26
Weight of + #10 After Washing (g)	2.83
Weight of - #10 Wet (g)	471.00
Weight of - #10 Dry (g)	470.64
Wt. Total Sample Dry (g)	473.47
Calc. Wt. "W" (g)	55.93
Calc. Mass + #10	0.33

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	0.00	0.00	0.00	0.0	100.0
3/8"	0.00	0.00	0.00	0.00	0.0	100.0
#4	0.00	0.84	0.84	0.84	0.2	99.8
#10	0.00	1.99	1.99	2.83	0.6	99.4
#20	1.59	3.27	1.68	1.68	3.6	96.4
#40	1.60	8.52	6.92	8.60	16.0	84.0
#60	1.57	9.96	8.39	16.99	31.0	69.0
#100	1.57	15.55	13.98	30.97	56.0	44.0
#200	1.57	12.07	10.50	41.47	74.8	25.2

Data entered by: NAA Date: 6-30-95
Data checked by: CJ Date: 7-5-95
FileName:SAH05091

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13L

BORING NO.	G2-130	SAMPLED	4-25-95 MM
DEPTH	40.0-41.5'	DATE TESTED	6-27-95 DPM
SAMPLE NO.	405091	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	26.3
Sp. Gr. of Soil	2.76	Temp. Coef. K	0.01227
Value of "alpha"	0.98	Wt. Dry Sample "W"	55.925
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	5.0		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	16.00	10.00	17.5	17.5	13.67	0.0641
1.0	12.50	6.50	11.4	11.4	14.24	0.0463
2.0	11.00	5.00	8.7	8.7	14.49	0.0330
5.0	10.00	4.00	7.0	7.0	14.65	0.0210
15.0	9.00	3.00	5.2	5.2	14.81	0.0122
30.0	8.25	2.25	3.9	3.9	14.94	0.0087
60.0	7.50	1.50	2.6	2.6	15.06	0.0061
120.0	6.75	0.75	1.3	1.3	15.18	0.0044
250.0	6.50	0.50	0.9	0.9	15.22	0.0030
1334.0	6.50	0.50	0.9	0.9	15.22	0.0013

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13L

BORING NO.	G2-130	SAMPLED	4-25-95 MM
DEPTH	45.0-46.5'	DATE TESTED	6-9-95 RW, REW
SAMPLE NO.	405092	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC	Yes	
NATURAL	No	
Wt. Wet Soil & Pan	(g)	57.99
Wt. Dry Soil & Pan	(g)	57.93
Wt. Lost Moisture	(g)	0.06
Wt. of Pan Only	(g)	3.63
Wt. of Dry Soil	(g)	54.30
Moisture Content	%	0.1
Wt. Hydrom. Sample Wet	(g)	59.15
Wt. Hydrom. Sample Dry	(g)	59.08

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	365.04
Weight of + #10 Before Washing (g)	6.48
Weight of + #10 After Washing (g)	4.97
Weight of - #10 Wet (g)	358.56
Weight of - #10 Dry (g)	359.67
Wt. Total Sample Dry (g)	364.64
Calc. Wt. "W" (g)	59.90
Calc. Mass + #10	0.82

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	0.00	0.00	0.00	0.0	100.0
3/8"	0.00	0.00	0.00	0.00	0.0	100.0
#4	0.00	1.13	1.13	1.13	0.3	99.7
#10	0.00	3.84	3.84	4.97	1.4	98.6
#20	1.31	3.73	2.42	2.42	5.4	94.6
#40	1.59	8.81	7.22	9.64	17.5	82.5
#60	1.58	14.05	12.47	22.11	38.3	61.7
#100	1.57	13.51	11.94	34.05	58.2	41.8
#200	1.57	8.90	7.33	41.38	70.4	29.6

Data entered by: NAA Date: 6-27-95
Data checked by: cal Date: 6-29-95
FileName:SAH05092

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

CLIENT SAIC/Parsons PO 140 JOB NO. 2059-13L

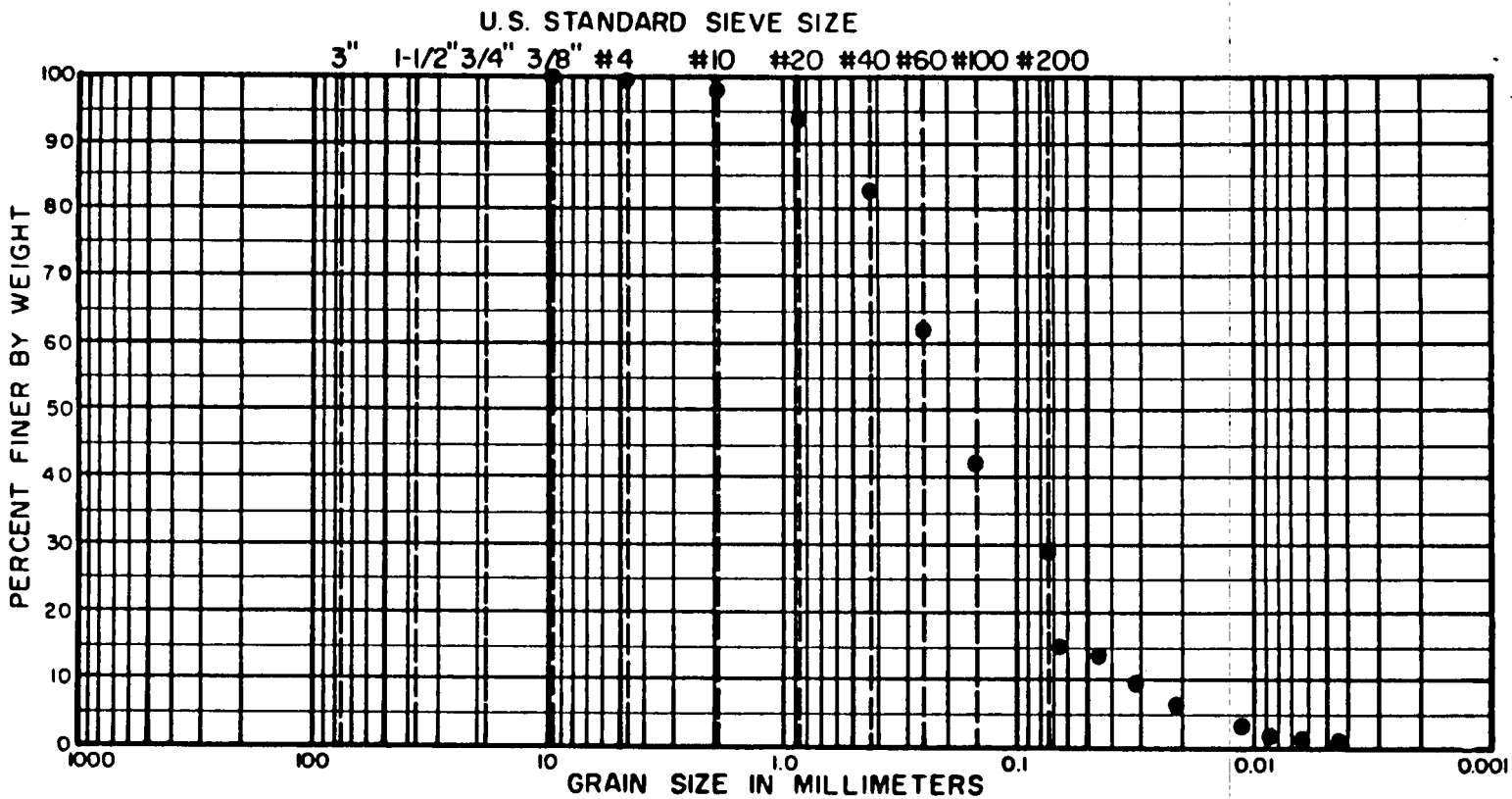
BORING NO.	G2-130	SAMPLED	4-25-95 MM
DEPTH	45.0-46.5'	DATE TESTED	6-9-95 RW, REW
SAMPLE NO.	405092	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	26.3
Sp. Gr. of Soil	2.77	Temp. Coef. K	0.01224
Value of "alpha"	0.98	Wt. Dry Sample "W"	59.901
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	5.0		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	15.00	9.00	14.7	14.7	13.83	0.0644
1.0	14.00	8.00	13.0	13.0	13.99	0.0458
2.0	11.75	5.75	9.4	9.4	14.36	0.0328
5.0	10.00	4.00	6.5	6.5	14.65	0.0210
15.0	8.00	2.00	3.3	3.3	14.98	0.0122
30.0	7.00	1.00	1.6	1.6	15.14	0.0087
60.0	6.75	0.75	1.2	1.2	15.18	0.0062
120.0	6.50	0.50	0.8	0.8	15.22	0.0044
250.0	6.00	0.00	0.0	0.0	15.31	0.0030

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

LOCATION	DEPTH	CLASSIFICATION
62-130	45.0-46.5'	

405092

407

474

ADVANCED TERRA TESTING

00042S

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13L

BORING NO.	G2-130	SAMPLED	4-25-95 MM
DEPTH	55.0-56.5'	DATE TESTED	6-9-95 RW
SAMPLE NO.	405094	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC	Yes	
NATURAL	No	
Wt. Wet Soil & Pan	(g)	62.31
Wt. Dry Soil & Pan	(g)	62.28
Wt. Lost Moisture	(g)	0.03
Wt. of Pan Only	(g)	3.61
Wt. of Dry Soil	(g)	58.67
Moisture Content	%	0.1
Wt. Hydrom. Sample Wet	(g)	56.10
Wt. Hydrom. Sample Dry	(g)	56.07

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	534.39
Weight of + #10 Before Washing (g)	274.75
Weight of + #10 After Washing (g)	271.84
Weight of - #10 Wet (g)	259.64
Weight of - #10 Dry (g)	262.42
Wt. Total Sample Dry (g)	534.26
Calc. Wt. "W" (g)	114.15
Calc. Mass + #10	58.08

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	20.64	20.64	20.64	3.9	96.1
3/8"	0.00	62.14	62.14	82.78	15.5	84.5
#4	0.00	103.36	103.36	186.14	34.8	65.2
#10	0.00	85.70	85.70	271.84	50.9	49.1
#20	1.58	13.21	11.63	11.63	61.1	38.9
#40	1.47	16.87	15.40	27.03	74.6	25.4
#60	1.59	12.93	11.34	38.37	84.5	15.5
#100	1.56	7.16	5.60	43.97	89.4	10.6
#200	1.57	4.54	2.97	46.94	92.0	8.0

Data entered by: NAA Date: 6-27-95
Data checked by: Cal Date: 6-29-95
FileName:SAH05094

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

CLIENT SAIC/Parsons PO 140 JOB NO. 2059-13L

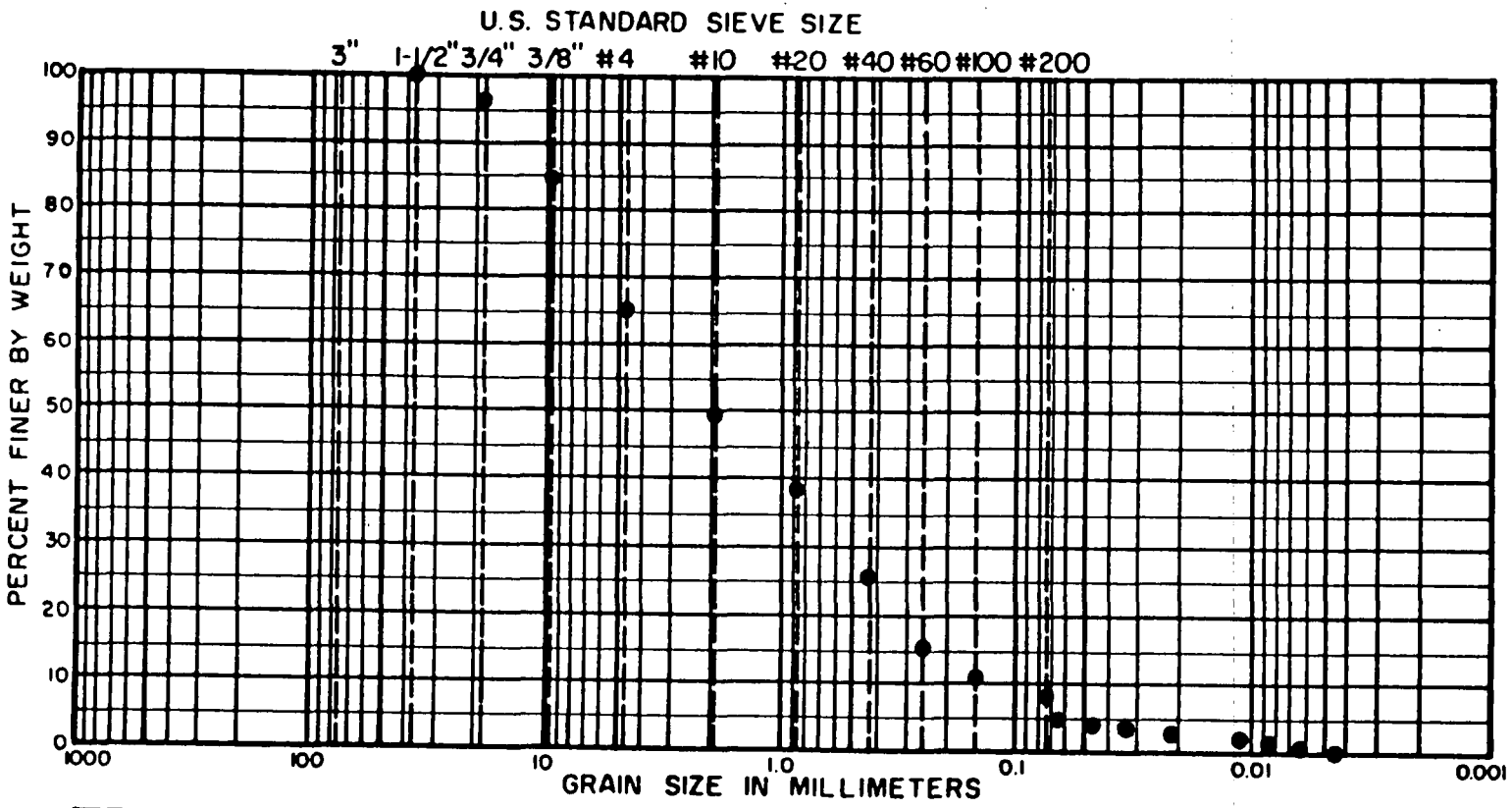
BORING NO.	G2-130	SAMPLED	4-25-95 MM
DEPTH	55.0-56.5'	DATE TESTED	6-9-95 RW
SAMPLE NO.	405094	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	26.3
Sp. Gr. of Soil	2.76	Temp. Coef. K	0.01227
Value of "alpha"	0.98	Wt. Dry Sample "W"	114.150
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	5.0		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	11.50	5.50	4.7	4.7	14.40	0.0659
1.0	10.50	4.50	3.9	3.9	14.57	0.0468
2.0	10.00	4.00	3.4	3.4	14.65	0.0332
5.0	9.00	3.00	2.6	2.6	14.81	0.0211
15.0	8.00	2.00	1.7	1.7	14.98	0.0123
30.0	7.00	1.00	0.9	0.9	15.14	0.0087
60.0	6.50	0.50	0.4	0.4	15.22	0.0062
120.0	6.00	0.00	0.0	0.0	15.31	0.0044

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

LOCATION	DEPTH	CLASSIFICATION
62-130	55.0-56.5'	

405094

ADVANCED TERRA TESTING

410

0004278

474

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13L

BORING NO.	G2-130	SAMPLED	4-25-95 MG
DEPTH	65.0-66.5'	DATE TESTED	6-22-95 DPM
SAMPLE NO.	405096	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC Yes

NATURAL No

Wt. Wet Soil & Pan	(g)	82.45
Wt. Dry Soil & Pan	(g)	82.39
Wt. Lost Moisture	(g)	0.06
Wt. of Pan Only	(g)	8.22
Wt. of Dry Soil	(g)	74.17
Moisture Content	%	0.1

Wt. Hydrom. Sample Wet (g)	59.45
Wt. Hydrom. Sample Dry (g)	59.40

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	456.18
Weight of + #10 Before Washing (g)	36.52
Weight of + #10 After Washing (g)	35.71
Weight of - #10 Wet (g)	419.66
Weight of - #10 Dry (g)	420.13
Wt. Total Sample Dry (g)	455.84
Calc. Wt. "W" (g)	64.45
Calc. Mass + #10	5.05

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	0.00	0.00	0.00	0.0	100.0
3/8"	0.00	0.00	0.00	0.00	0.0	100.0
#4	0.00	13.41	13.41	13.41	2.9	97.1
#10	0.00	22.30	22.30	35.71	7.8	92.2
#20	1.56	7.06	5.50	5.50	16.4	83.6
#40	1.59	18.34	16.75	22.25	42.4	57.6
#60	1.58	20.69	19.11	41.36	72.0	28.0
#100	1.57	10.65	9.08	50.44	86.1	13.9
#200	1.57	4.81	3.24	53.68	91.1	8.9

Data entered by: NAA Date: 6-28-95
Data checked by: cal Date: 6-29-95
FileName:SAH05096

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

CLIENT SAIC/Parsons PO 140 JOB NO. 2059-13L

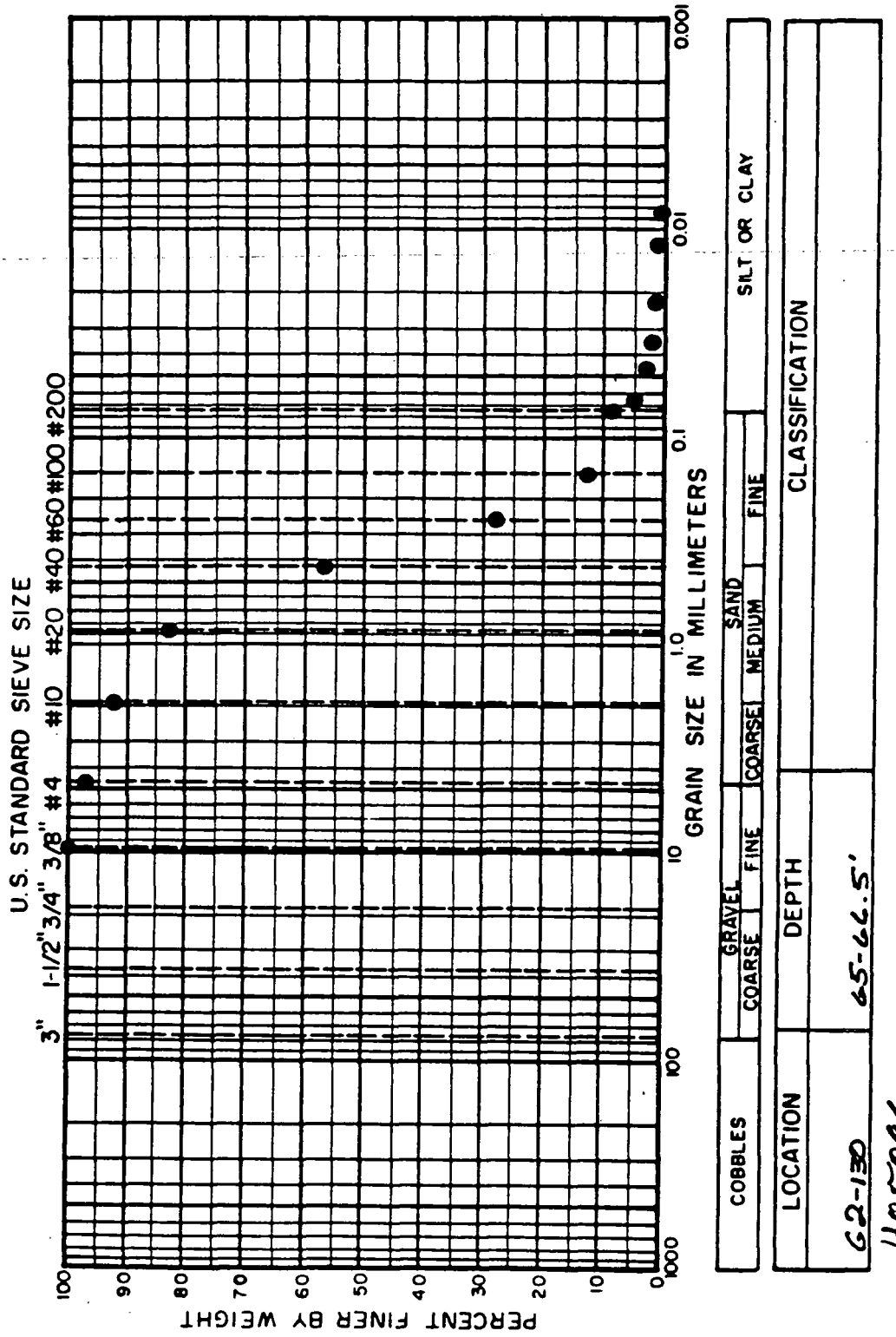
BORING NO.	G2-130	SAMPLED	4-25-95 MG
DEPTH	65.0-66.5'	DATE TESTED	6-22-95 DPM
SAMPLE NO.	405096	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	27.1
Sp. Gr. of Soil	2.77	Temp. Coef. K	0.01213
Value of "alpha"	0.98	Wt. Dry Sample "W"	64.450
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	4.5		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Hydrometer Reading Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	9.00	3.50	5.3	5.3	14.81	0.0660
1.0	7.50	2.00	3.0	3.0	15.06	0.0471
2.0	7.00	1.50	2.3	2.3	15.14	0.0334
5.0	6.75	1.25	1.9	1.9	15.18	0.0211
15.0	6.50	1.00	1.5	1.5	15.22	0.0122
30.0	6.50	1.00	1.5	1.5	15.22	0.0086
60.0	5.50	0.00	0.0	0.0	15.39	0.0061

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



405096

ADVANCED TERRA TESTING

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13L

BORING NO.	G2-130	SAMPLED	4-26-95 MM
DEPTH	70.0-71.5'	DATE TESTED	6-9-95 REW
SAMPLE NO.	405097	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC Yes

NATURAL No

Wt. Wet Soil & Pan	(g)	62.85
Wt. Dry Soil & Pan	(g)	62.80
Wt. Lost Moisture	(g)	0.05
Wt. of Pan Only	(g)	3.73
Wt. of Dry Soil	(g)	59.07
Moisture Content	%	0.1
Wt. Hydrom. Sample Wet	(g)	56.51
Wt. Hydrom. Sample Dry	(g)	56.46

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	646.76
Weight of + #10 Before Washing (g)	24.08
Weight of + #10 After Washing (g)	20.59
Weight of - #10 Wet (g)	622.68
Weight of - #10 Dry (g)	625.64
Wt. Total Sample Dry (g)	646.23
Calc. Wt. "W" (g)	58.32
Calc. Mass + #10	1.86

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	0.00	0.00	0.00	0.0	100.0
3/8"	0.00	0.00	0.00	0.00	0.0	100.0
#4	0.00	5.22	5.22	5.22	0.8	99.2
#10	0.00	15.37	15.37	20.59	3.2	96.8
#20	1.59	6.75	5.16	5.16	12.0	88.0
#40	1.58	17.35	15.77	20.93	39.1	60.9
#60	1.58	21.93	20.35	41.28	74.0	26.0
#100	1.58	8.86	7.28	48.56	86.5	13.5
#200	1.57	4.15	2.58	51.14	90.9	9.1

Data entered by: NAA Date: 6-28-95
Data checked by: Cal Date: 6-29-95
FileName: SAH05097

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

CLIENT SAIC/Parsons PO 140 JOB NO. 2059-13L

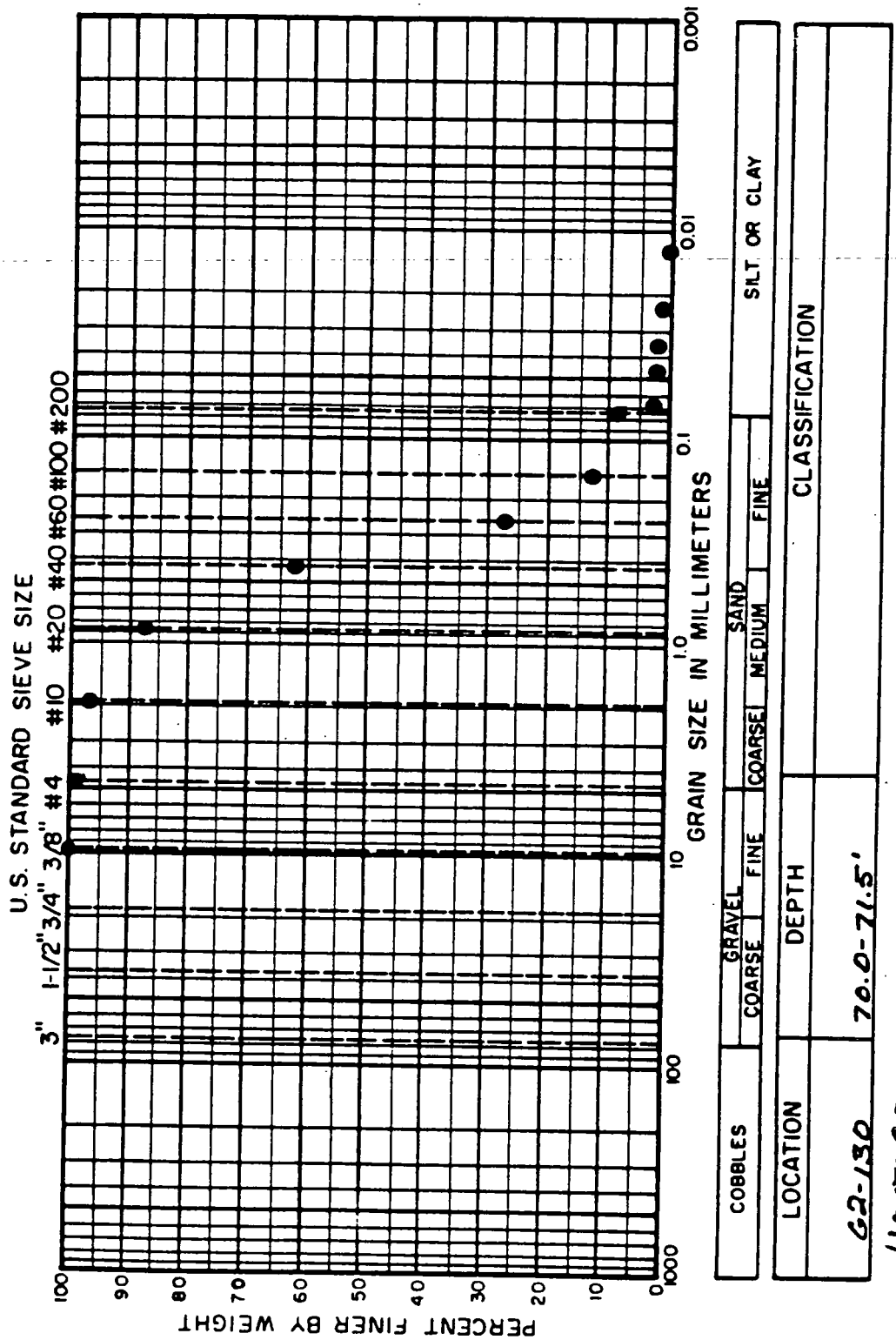
BORING NO.	G2-130	SAMPLED	4-26-95 MM
DEPTH	70.0-71.5'	DATE TESTED	6-9-95 REW
SAMPLE NO.	405097	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	26.2
Sp. Gr. of Soil	2.69	Temp. Coef. K	0.01254
Value of "alpha"	0.99	Wt. Dry Sample "W"	58.315
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	5.0		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	7.50	1.50	2.6	2.6	15.06	0.0688
1.0	7.25	1.25	2.1	2.1	15.10	0.0487
2.0	7.25	1.25	2.1	2.1	15.10	0.0345
5.0	7.00	1.00	1.7	1.7	15.14	0.0218
15.0	6.50	0.50	0.9	0.9	15.22	0.0126
30.0	6.00	0.00	0.0	0.0	15.31	0.0090

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



406097

ADVANCED TERRA TESTING

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13L

BORING NO.	G2-130	SAMPLED	4-26-95 MM
DEPTH	75.0-76.5'	DATE TESTED	6-22-95 DPM
SAMPLE NO.	405098	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC	Yes	
NATURAL	No	
Wt. Wet Soil & Pan	(g)	87.66
Wt. Dry Soil & Pan	(g)	87.57
Wt. Lost Moisture	(g)	0.09
Wt. of Pan Only	(g)	8.36
Wt. of Dry Soil	(g)	79.21
Moisture Content	%	0.1
Wt. Hydrom. Sample Wet	(g)	55.29
Wt. Hydrom. Sample Dry	(g)	55.22

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	711.46
Weight of + #10 Before Washing (g)	200.58
Weight of + #10 After Washing (g)	196.30
Weight of - #10 Wet (g)	510.88
Weight of - #10 Dry (g)	514.58
Wt. Total Sample Dry (g)	710.88
Calc. Wt. "W" (g)	76.29
Calc. Mass + #10	21.07

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	15.96	15.96	15.96	2.2	97.8
3/8"	0.00	40.53	40.53	56.49	7.9	92.1
#4	0.00	59.38	59.38	115.87	16.3	83.7
#10	0.00	80.43	80.43	196.30	27.6	72.4
#20	1.56	11.35	9.79	9.79	40.4	59.6
#40	1.32	12.02	10.70	20.49	54.5	45.5
#60	1.57	18.23	16.66	37.15	76.3	23.7
#100	1.32	10.21	8.89	46.04	88.0	12.0
#200	1.60	5.03	3.43	49.47	92.5	7.5

Data entered by: NAA Date: 6-28-95
Data checked by: cal Date: 6-29-95
FileName:SAH05098

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13L

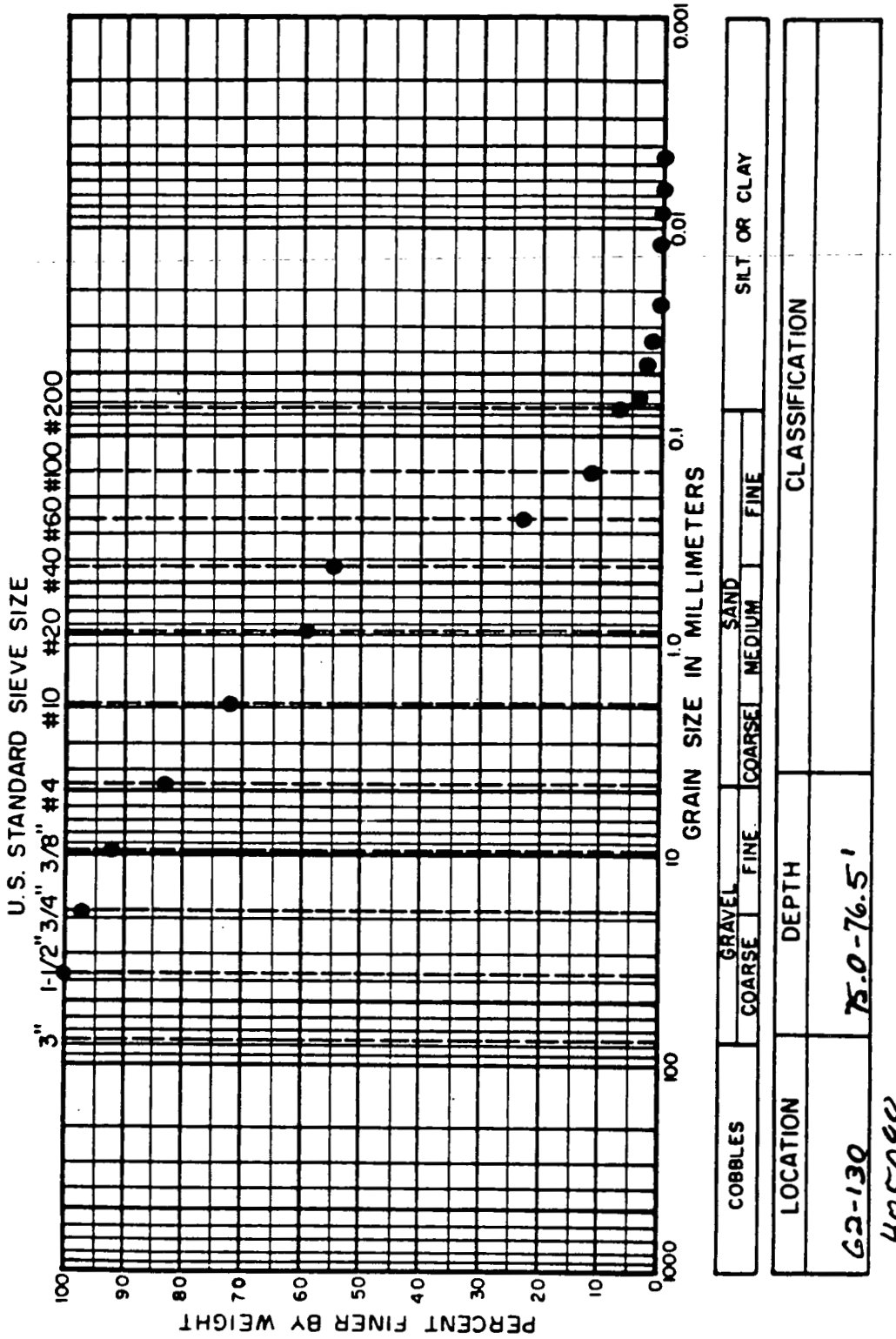
BORING NO.	G2-130	SAMPLED	4-26-95 MM
DEPTH	75.0-76.5'	DATE TESTED	6-22-95 DPM
SAMPLE NO.	405098	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	27.1
Sp. Gr. of Soil	2.73	Temp. Coef. K	0.01227
Value of "alpha"	0.98	Wt. Dry Sample "W"	76.291
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	4.5		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	9.00	3.50	4.5	4.5	14.81	0.0668
1.0	7.50	2.00	2.6	2.6	15.06	0.0476
2.0	6.75	1.25	1.6	1.6	15.18	0.0338
5.0	6.00	0.50	0.6	0.6	15.31	0.0215
15.0	6.00	0.50	0.6	0.6	15.31	0.0124
30.0	6.00	0.50	0.6	0.6	15.31	0.0088
60.0	5.75	0.25	0.3	0.3	15.35	0.0062
120.0	5.50	0.00	0.0	0.0	15.39	0.0044

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



ADVANCED TERRA TESTING

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13L

BORING NO.	G2-130	SAMPLED	4-26-95 MM
DEPTH	80.0-81.5'	DATE TESTED	6-9-95 CAL, REW
SAMPLE NO.	405099	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC	Yes	
NATURAL	No	
Wt. Wet Soil & Pan	(g)	73.20
Wt. Dry Soil & Pan	(g)	73.15
Wt. Lost Moisture	(g)	0.05
Wt. of Pan Only	(g)	3.63
Wt. of Dry Soil	(g)	69.52
Moisture Content	%	0.1
Wt. Hydrom. Sample Wet	(g)	53.06
Wt. Hydrom. Sample Dry	(g)	53.02

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	776.46
Weight of + #10 Before Washing (g)	349.04
Weight of + #10 After Washing (g)	345.29
Weight of - #10 Wet (g)	427.42
Weight of - #10 Dry (g)	430.86
Wt. Total Sample Dry (g)	776.15
Calc. Wt. "W" (g)	95.52
Calc. Mass + #10	42.49

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	40.70	40.70	40.70	5.2	94.8
3/8"	0.00	49.17	49.17	89.87	11.6	88.4
#4	0.00	100.49	100.49	190.36	24.5	75.5
#10	0.00	154.93	154.93	345.29	44.5	55.5
#20	1.59	18.04	16.45	16.45	61.7	38.3
#40	1.57	13.53	11.96	28.41	74.2	25.8
#60	1.57	11.40	9.83	38.24	84.5	15.5
#100	1.58	8.28	6.70	44.94	91.5	8.5
#200	1.58	4.58	3.00	47.94	94.7	5.3

Data entered by: NAA Date: 6-26-95
Data checked by: cal Date: 6-28-95
FileName:SAH05099

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

CLIENT SAIC/Parsons PO 140 JOB NO. 2059-13L

BORING NO.	G2-130	SAMPLED	4-26-95 MM
DEPTH	80.0-81.5'	DATE TESTED	6-9-95 CAL, REW
SAMPLE NO.	405099	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	25.1
Sp. Gr. of Soil	2.73	Temp. Coef. K	0.01255
Value of "alpha"	0.98	Wt. Dry Sample "W"	95.517
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	4.5		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	8.00	2.50	2.6	2.6	14.98	0.0687
1.0	7.25	1.75	1.8	1.8	15.10	0.0488
2.0	7.00	1.50	1.5	1.5	15.14	0.0345
5.0	6.75	1.25	1.3	1.3	15.18	0.0219
15.0	6.75	1.25	1.3	1.3	15.18	0.0126
30.0	6.75	1.25	1.3	1.3	15.18	0.0089
60.0	6.50	1.00	1.0	1.0	15.22	0.0063
120.0	6.00	0.50	0.5	0.5	15.31	0.0045
250.0	6.00	0.50	0.5	0.5	15.31	0.0031
1123.0	6.00	0.50	0.5	0.5	15.31	0.0015

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13A

BORING NO.	G2-131	SAMPLED	4-12-95 MG
DEPTH	7.5-9.5'	DATE TESTED	6-8-95 CAL
SAMPLE NO.	404704	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC Yes

NATURAL No

Wt. Wet Soil & Pan	(g)	62.93
Wt. Dry Soil & Pan	(g)	62.36
Wt. Lost Moisture	(g)	0.57
Wt. of Pan Only	(g)	3.72
Wt. of Dry Soil	(g)	58.64
Moisture Content	%	1.0

Wt. Hydrom. Sample Wet (g)	57.00
Wt. Hydrom. Sample Dry (g)	56.45

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	1122.66
Weight of + #10 Before Washing (g)	81.14
Weight of + #10 After Washing (g)	77.58
Weight of - #10 Wet (g)	1041.52
Weight of - #10 Dry (g)	1035.02
Wt. Total Sample Dry (g)	1112.60
Calc. Wt. "W" (g)	60.69
Calc. Mass + #10	4.23

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	0.00	0.00	0.00	0.0	100.0
3/8"	0.00	22.98	22.98	22.98	2.1	97.9
#4	0.00	26.09	26.09	49.07	4.4	95.6
#10	0.00	28.51	28.51	77.58	7.0	93.0
#20	1.56	4.03	2.47	2.47	11.0	89.0
#40	1.57	3.97	2.40	4.87	15.0	85.0
#60	1.59	3.90	2.31	7.18	18.8	81.2
#100	1.31	4.25	2.94	10.12	23.6	76.4
#200	1.58	5.34	3.76	13.88	29.8	70.2

Data entered by: NAA Date: 6-12-95
Data checked by: WEB Date: 6-12-95
FileName:SAH0704

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13A

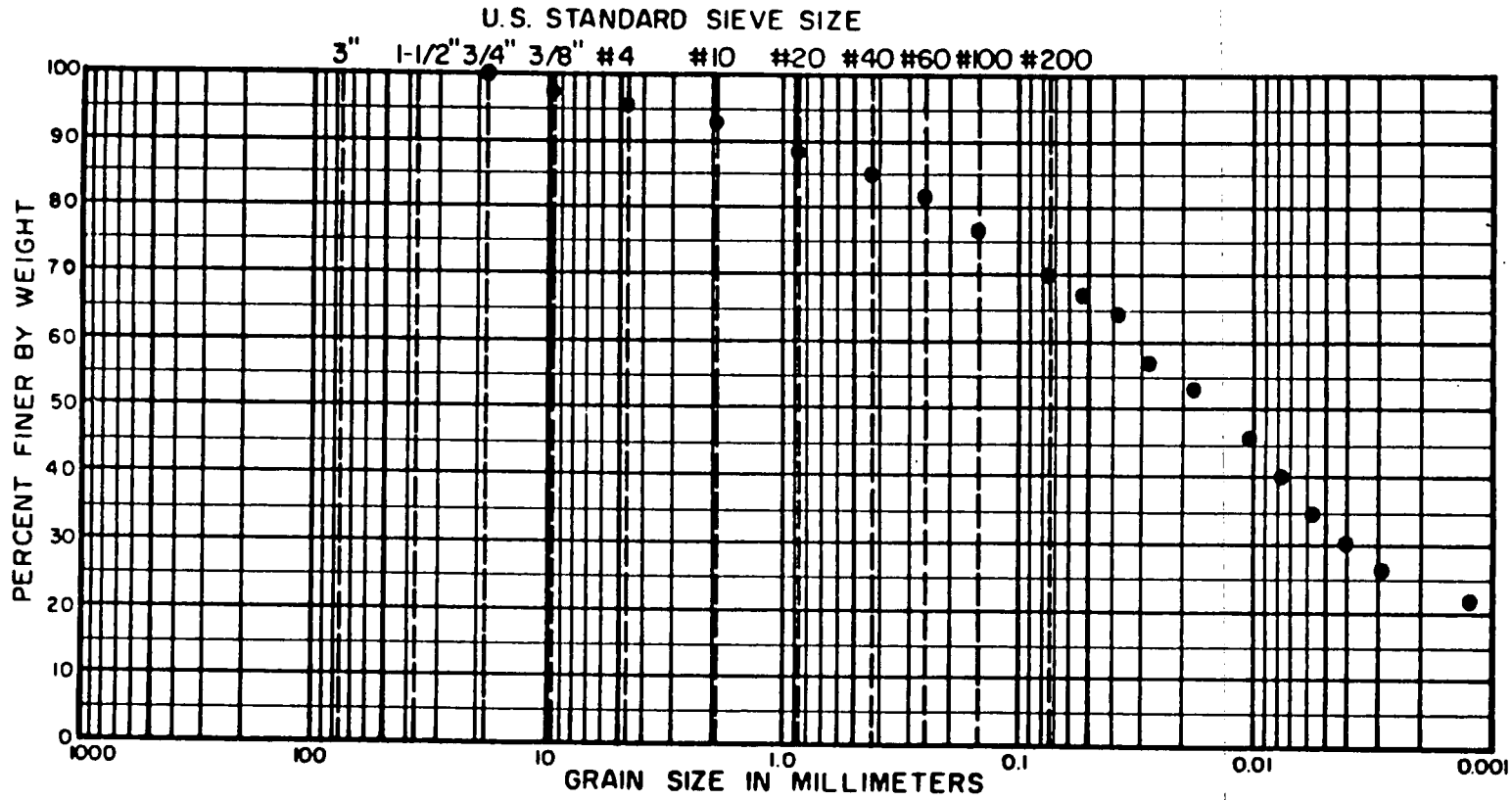
BORING NO.	G2-131	SAMPLED	4-12-95 MG
DEPTH	7.5-9.5'	DATE TESTED	6-8-95 CAL
SAMPLE NO.	404704	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	24.9
Sp. Gr. of Soil	2.69	Temp. Coef. K	0.01273
Value of "alpha"	0.99	Wt. Dry Sample "W"	60.686
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	4.0		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	46.00	41.00	67.0	67.0	8.75	0.0532
1.0	44.50	39.50	64.6	64.6	8.99	0.0382
2.0	40.00	35.00	57.2	57.2	9.73	0.0281
5.0	38.00	33.00	53.9	53.9	10.06	0.0180
15.0	33.00	28.00	45.8	45.8	10.88	0.0108
30.0	29.50	24.50	40.0	40.0	11.45	0.0079
60.0	26.50	21.50	35.1	35.1	11.94	0.0057
120.0	23.50	18.50	30.2	30.2	12.44	0.0041
250.0	21.00	16.00	26.2	26.2	12.85	0.0029
1239.0	18.50	13.50	22.1	22.1	13.26	0.0013

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

LOCATION	DEPTH	CLASSIFICATION
62-131	7.5 - 9.5'	

404704

425

ADVANCED TERRA TESTING

000492

424

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13A

BORING NO.	G2-131	SAMPLED	4-13-95 MG
DEPTH	17.5-19.5'	DATE TESTED	6-8-95 CAL
SAMPLE NO.	404709	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC	Yes	
NATURAL	No	
Wt. Wet Soil & Pan	(g)	79.27
Wt. Dry Soil & Pan	(g)	78.80
Wt. Lost Moisture	(g)	0.47
Wt. of Pan Only	(g)	3.63
Wt. of Dry Soil	(g)	75.17
Moisture Content	%	0.6
Wt. Hydrom. Sample Wet	(g)	58.94
Wt. Hydrom. Sample Dry	(g)	58.57

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	1234.46
Weight of + #10 Before Washing (g)	122.25
Weight of + #10 After Washing (g)	112.28
Weight of - #10 Wet (g)	1112.21
Weight of - #10 Dry (g)	1115.21
Wt. Total Sample Dry (g)	1227.49
Calc. Wt. "W" (g)	64.47
Calc. Mass + #10	5.90

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	23.05	23.05	23.05	1.9	98.1
3/8"	0.00	29.78	29.78	52.83	4.3	95.7
#4	0.00	25.74	25.74	78.57	6.4	93.6
#10	0.00	33.71	33.71	112.28	9.1	90.9
#20	1.57	4.09	2.52	2.52	13.1	86.9
#40	1.58	3.73	2.15	4.67	16.4	83.6
#60	1.31	3.52	2.21	6.88	19.8	80.2
#100	1.31	3.83	2.52	9.40	23.7	76.3
#200	1.62	4.86	3.24	12.64	28.8	71.2

Data entered by: NAA Date: 6-12-95
Data checked by: WEB Date: 6-15-95
FileName:SAH0709

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13A

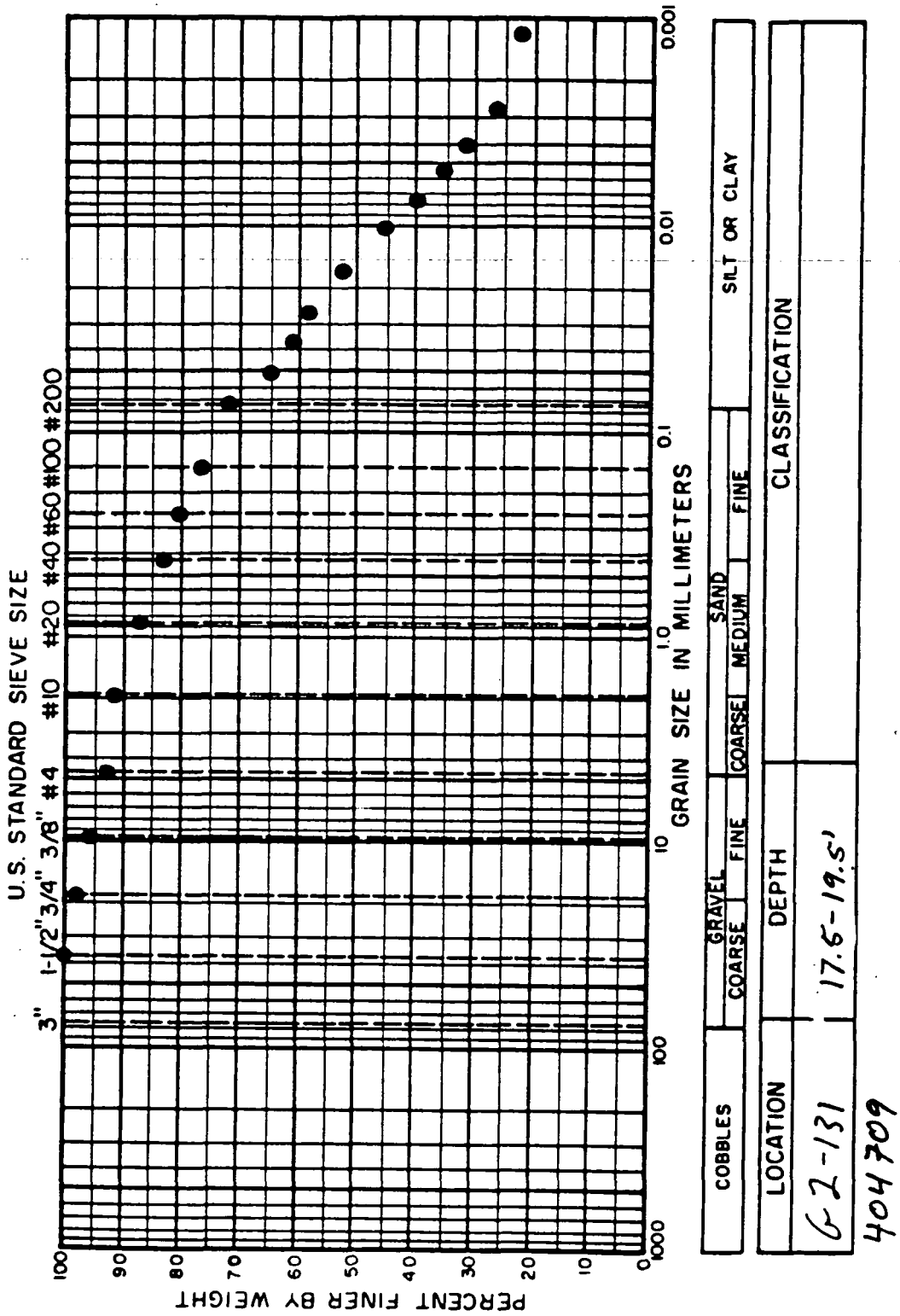
BORING NO.	G2-131	SAMPLED	4-13-95 MG
DEPTH	17.5-19.5'	DATE TESTED	6-8-95 CAL
SAMPLE NO.	404709	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	25.0
Sp. Gr. of Soil	2.73	Temp. Coef. K	0.01256
Value of "alpha"	0.98	Wt. Dry Sample "W"	64.467
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	4.0		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	47.50	42.50	64.9	64.9	8.50	0.0518
1.0	45.00	40.00	61.1	61.1	8.91	0.0375
2.0	43.50	38.50	58.8	58.8	9.16	0.0269
5.0	39.50	34.50	52.7	52.7	9.81	0.0176
15.0	34.50	29.50	45.0	45.0	10.63	0.0106
30.0	31.00	26.00	39.7	39.7	11.21	0.0077
60.0	28.00	23.00	35.1	35.1	11.70	0.0055
120.0	25.50	20.50	31.3	31.3	12.11	0.0040
250.0	22.50	17.50	26.7	26.7	12.60	0.0028
1230.0	19.50	14.50	22.1	22.1	13.09	0.0013

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



ADVANCED TERRA TESTING

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13A

BORING NO.	G2-131	SAMPLED	4-13-95 MG
DEPTH	27.5-29.5'	DATE TESTED	6-8-95 CAL
SAMPLE NO.	404713	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC	Yes	
NATURAL	No	
Wt. Wet Soil & Pan	(g)	67.18
Wt. Dry Soil & Pan	(g)	66.94
Wt. Lost Moisture	(g)	0.24
Wt. of Pan Only	(g)	3.53
Wt. of Dry Soil	(g)	63.41
Moisture Content	%	0.4
Wt. Hydrom. Sample Wet	(g)	58.45
Wt. Hydrom. Sample Dry	(g)	58.23

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	1597.51
Weight of + #10 Before Washing (g)	191.32
Weight of + #10 After Washing (g)	173.82
Weight of - #10 Wet (g)	1406.19
Weight of - #10 Dry (g)	1418.32
Wt. Total Sample Dry (g)	1592.14
Calc. Wt. "W" (g)	65.37
Calc. Mass + #10	7.14

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	18.04	18.04	18.04	1.1	98.9
3/8"	0.00	48.55	48.55	66.59	4.2	95.8
#4	0.00	52.63	52.63	119.22	7.5	92.5
#10	0.00	54.60	54.60	173.82	10.9	89.1
#20	1.57	4.97	3.40	3.40	16.1	83.9
#40	1.57	4.21	2.64	6.04	20.2	79.8
#60	1.57	3.97	2.40	8.44	23.8	76.2
#100	1.31	3.89	2.58	11.02	27.8	72.2
#200	1.57	4.87	3.30	14.32	32.8	67.2

Data entered by: NAA Date: 6-12-95
Data checked by: WEB Date: 6-12-95
FileName:SAH0713

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

CLIENT SAIC/Parsons PO 140 JOB NO. 2059-13A

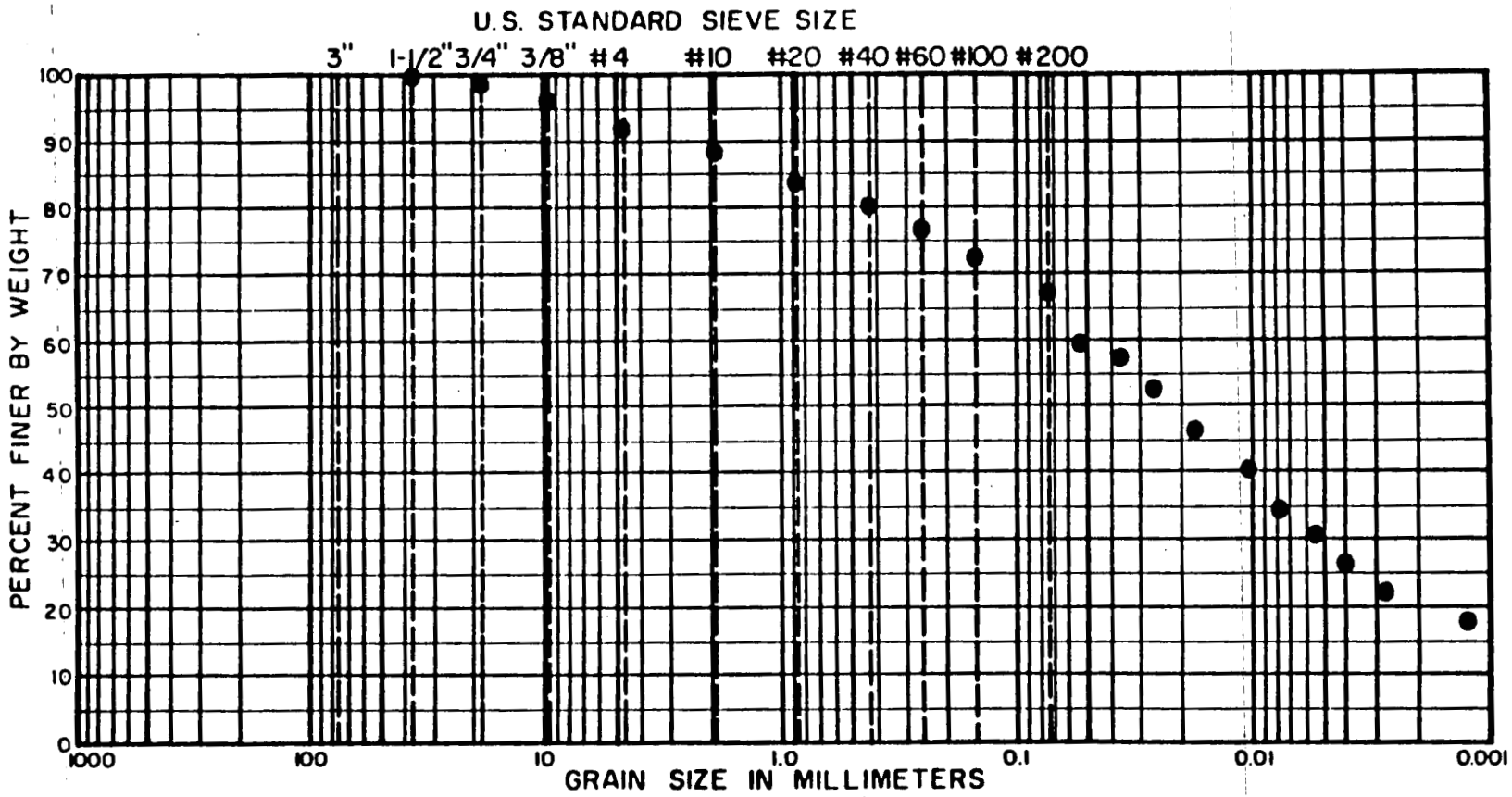
BORING NO.	G2-131	SAMPLED	4-13-95 MG
DEPTH	27.5-29.5'	DATE TESTED	6-8-95 CAL
SAMPLE NO.	404713	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	24.4
Sp. Gr. of Soil	2.78	Temp. Coef. K	0.01247
Value of "alpha"	0.97	Wt. Dry Sample "W"	65.369
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	4.0		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	45.00	40.00	59.6	59.6	8.91	0.0526
1.0	43.50	38.50	57.4	57.4	9.16	0.0377
2.0	40.00	35.00	52.1	52.1	9.73	0.0275
5.0	36.00	31.00	46.2	46.2	10.39	0.0180
15.0	32.00	27.00	40.2	40.2	11.04	0.0107
30.0	28.00	23.00	34.3	34.3	11.70	0.0078
60.0	25.50	20.50	30.5	30.5	12.11	0.0056
120.0	22.50	17.50	26.1	26.1	12.60	0.0040
250.0	20.00	15.00	22.3	22.3	13.01	0.0028
1312.0	17.50	12.50	18.6	18.6	13.42	0.0013

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

LOCATION	DEPTH	CLASSIFICATION
G2-131	27.5-29.5'	

404713

Revised as of 8/29/95

431

ADVANCED TERRA TESTING

000498

434

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13A

BORING NO.	G2-131	SAMPLED	4-13-95 MG
DEPTH	45.0-47.0'	DATE TESTED	6-8-95 RW, REW
SAMPLE NO.	404719	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC	Yes	
NATURAL	No	
Wt. Wet Soil & Pan	(g)	72.68
Wt. Dry Soil & Pan	(g)	71.96
Wt. Lost Moisture	(g)	0.72
Wt. of Pan Only	(g)	3.71
Wt. of Dry Soil	(g)	68.25
Moisture Content	%	1.1
Wt. Hydrom. Sample Wet	(g)	55.41
Wt. Hydrom. Sample Dry	(g)	54.83

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	1455.86
Weight of + #10 Before Washing (g)	109.10
Weight of + #10 After Washing (g)	95.82
Weight of - #10 Wet (g)	1346.76
Weight of - #10 Dry (g)	1345.84
Wt. Total Sample Dry (g)	1441.66
Calc. Wt. "W" (g)	58.73
Calc. Mass + #10	3.90

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	0.00	0.00	0.00	0.0	100.0
3/8"	0.00	29.43	29.43	29.43	2.0	98.0
#4	0.00	30.71	30.71	60.14	4.2	95.8
#10	0.00	35.68	35.68	95.82	6.6	93.4
#20	1.57	3.24	1.67	1.67	9.5	90.5
#40	1.57	2.92	1.35	3.02	11.8	88.2
#60	1.58	2.82	1.24	4.26	13.9	86.1
#100	1.56	3.14	1.58	5.84	16.6	83.4
#200	1.57	3.55	1.98	7.82	20.0	80.0

Data entered by: NAA Date: 6-8-95
Data checked by: WEB Date: 6-15-95
FileName:SAH0719

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13A

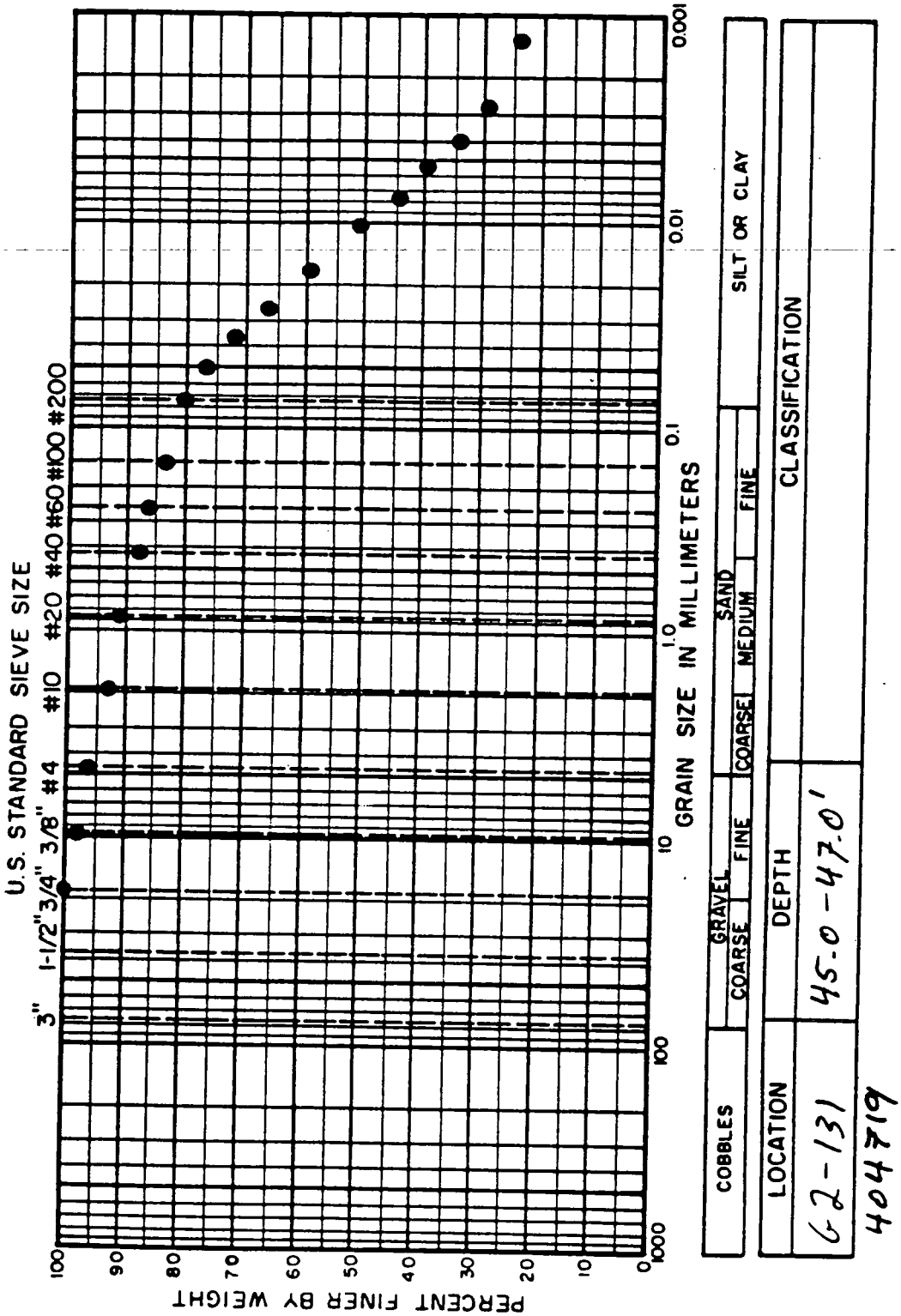
BORING NO.	G2-131	SAMPLED	4-13-95 MG
DEPTH	45.0-47.0'	DATE TESTED	6-8-95 RW, REW
SAMPLE NO.	404719	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	25.0
Sp. Gr. of Soil	2.72	Temp. Coef. K	0.01263
Value of "alpha"	0.99	Wt. Dry Sample "W"	58.730
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	4.5		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	51.00	45.50	76.4	76.4	7.93	0.0503
1.0	48.00	42.50	71.4	71.4	8.42	0.0367
2.0	45.00	39.50	66.3	66.3	8.91	0.0267
5.0	41.00	35.50	59.6	59.6	9.57	0.0175
15.0	35.50	30.00	50.4	50.4	10.47	0.0106
30.0	32.00	26.50	44.5	44.5	11.04	0.0077
60.0	29.00	23.50	39.5	39.5	11.53	0.0055
120.0	26.00	20.50	34.4	34.4	12.03	0.0040
250.0	23.00	17.50	29.4	29.4	12.52	0.0028
1167.0	20.00	14.50	24.3	24.3	13.01	0.0013

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



404719

ADVANCED TERRA TESTING

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13A

BORING NO.	G2-131	SAMPLED	4-17-95
DEPTH	60.0-61.5'	DATE TESTED	5-26-95 REW
SAMPLE NO.	404723	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC	Yes	
NATURAL	No	
Wt. Wet Soil & Pan	(g)	54.46
Wt. Dry Soil & Pan	(g)	54.15
Wt. Lost Moisture	(g)	0.31
Wt. of Pan Only	(g)	3.84
Wt. of Dry Soil	(g)	50.31
Moisture Content	%	0.6
Wt. Hydrom. Sample Wet	(g)	55.47
Wt. Hydrom. Sample Dry	(g)	55.13

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	351.09
Weight of + #10 Before Washing (g)	1.50
Weight of + #10 After Washing (g)	0.95
Weight of - #10 Wet (g)	349.49
Weight of - #10 Dry (g)	347.90
Wt. Total Sample Dry (g)	348.85
Calc. Wt. "W" (g)	55.28
Calc. Mass + #10	0.15

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	0.00	0.00	0.00	0.0	100.0
3/8"	0.00	0.00	0.00	0.00	0.0	100.0
#4	0.00	0.48	0.48	0.48	0.1	99.9
#10	0.00	0.47	0.47	0.95	0.3	99.7
#20	1.57	1.74	0.17	0.17	0.6	99.4
#40	1.56	1.72	0.16	0.33	0.9	99.1
#60	1.47	1.60	0.13	0.46	1.1	98.9
#100	1.58	1.73	0.15	0.61	1.4	98.6
#200	1.59	2.80	1.21	1.82	3.6	96.4

Data entered by: NAA Date: 6-5-95
Data checked by: DR Date: 6-5-95
FileName:SAH0723

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

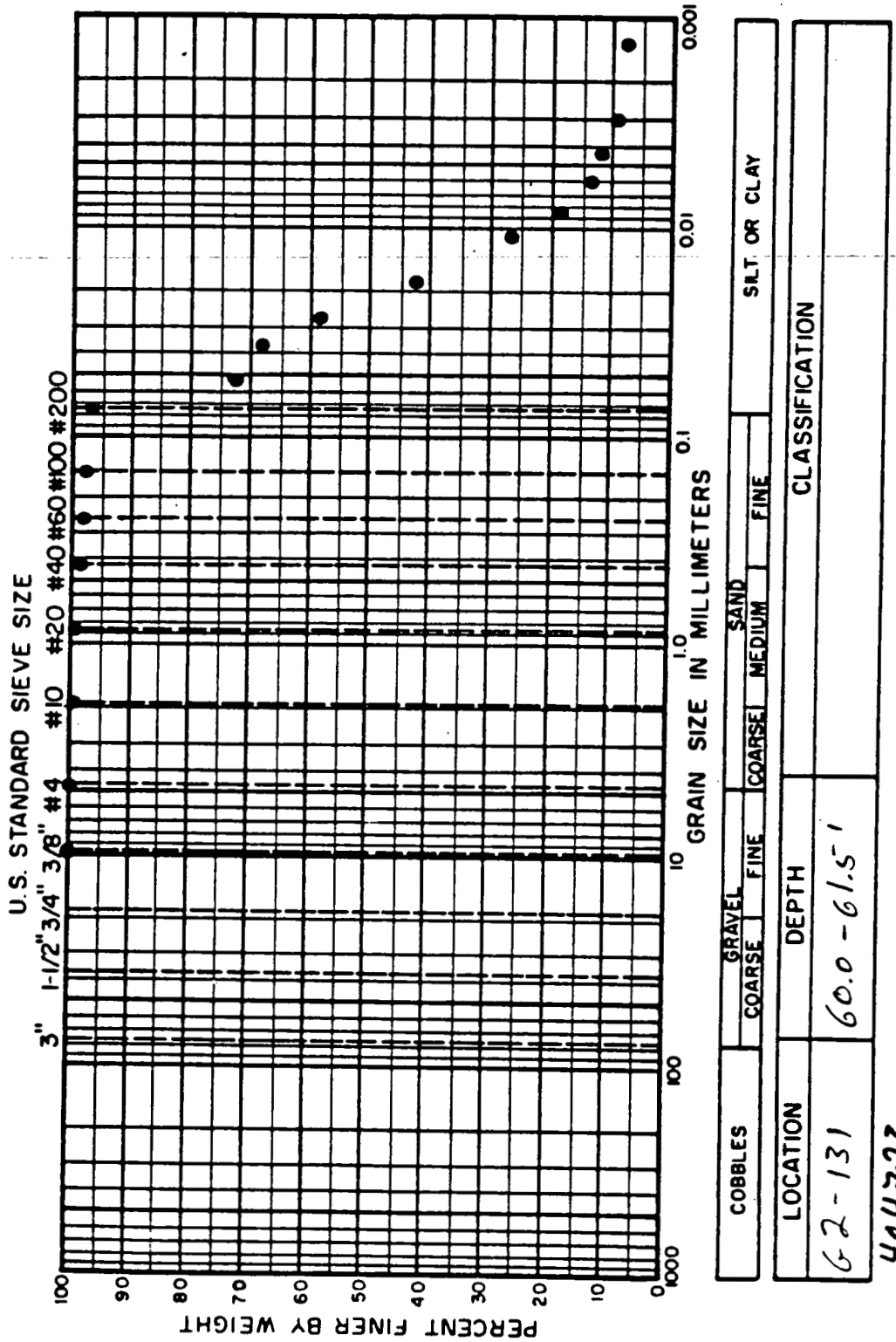
CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13A
BORING NO.	G2-131	SAMPLED	4-17-95
DEPTH	60.0-61.5'	DATE TESTED	5-26-95 REW
SAMPLE NO.	404723	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	24.7
Sp. Gr. of Soil	2.79	Temp. Coef. K	0.01239
Value of "alpha"	0.97	Wt. Dry Sample "W"	55.284
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	5.0		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	47.00	41.00	72.1	72.1	8.58	0.0513
1.0	45.00	39.00	68.6	68.6	8.91	0.0370
2.0	39.00	33.00	58.0	58.0	9.89	0.0276
5.0	30.00	24.00	42.2	42.2	11.37	0.0187
15.0	21.00	15.00	26.4	26.4	12.85	0.0115
30.0	16.50	10.50	18.5	18.5	13.58	0.0083
60.0	14.00	8.00	14.1	14.1	13.99	0.0060
120.0	12.50	6.50	11.4	11.4	14.24	0.0043
250.0	11.25	5.25	9.2	9.2	14.45	0.0030
1310.0	10.00	4.00	7.0	7.0	14.65	0.0013

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



ADVANCED TERRA TESTING

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13A

BORING NO.	G2-131	SAMPLED	4-17-95
DEPTH	65.0-66.5'	DATE TESTED	5-26-95 REW
SAMPLE NO.	404724	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC	Yes	
NATURAL	No	
Wt. Wet Soil & Pan	(g)	57.92
Wt. Dry Soil & Pan	(g)	57.76
Wt. Lost Moisture	(g)	0.16
Wt. of Pan Only	(g)	3.95
Wt. of Dry Soil	(g)	53.81
Moisture Content	%	0.3
Wt. Hydrom. Sample Wet	(g)	55.13
Wt. Hydrom. Sample Dry	(g)	54.97

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	584.79
Weight of + #10 Before Washing (g)	1.17
Weight of + #10 After Washing (g)	1.02
Weight of - #10 Wet (g)	583.62
Weight of - #10 Dry (g)	582.04
Wt. Total Sample Dry (g)	583.06
Calc. Wt. "W" (g)	55.07
Calc. Mass + #10	0.10

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	0.00	0.00	0.00	0.0	100.0
3/8"	0.00	0.00	0.00	0.00	0.0	100.0
#4	0.00	0.20	0.20	0.20	0.0	100.0
#10	0.00	0.82	0.82	1.02	0.2	99.8
#20	1.32	2.03	0.71	0.71	1.5	98.5
#40	1.61	4.31	2.70	3.41	6.4	93.6
#60	1.58	12.04	10.46	13.87	25.4	74.6
#100	1.57	9.54	7.97	21.84	39.8	60.2
#200	1.59	12.44	10.85	32.69	59.5	40.5

Data entered by: NAA Date: 5-30-95
Data checked by: SR Date: 5-30-95
FileName:SAH0724

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

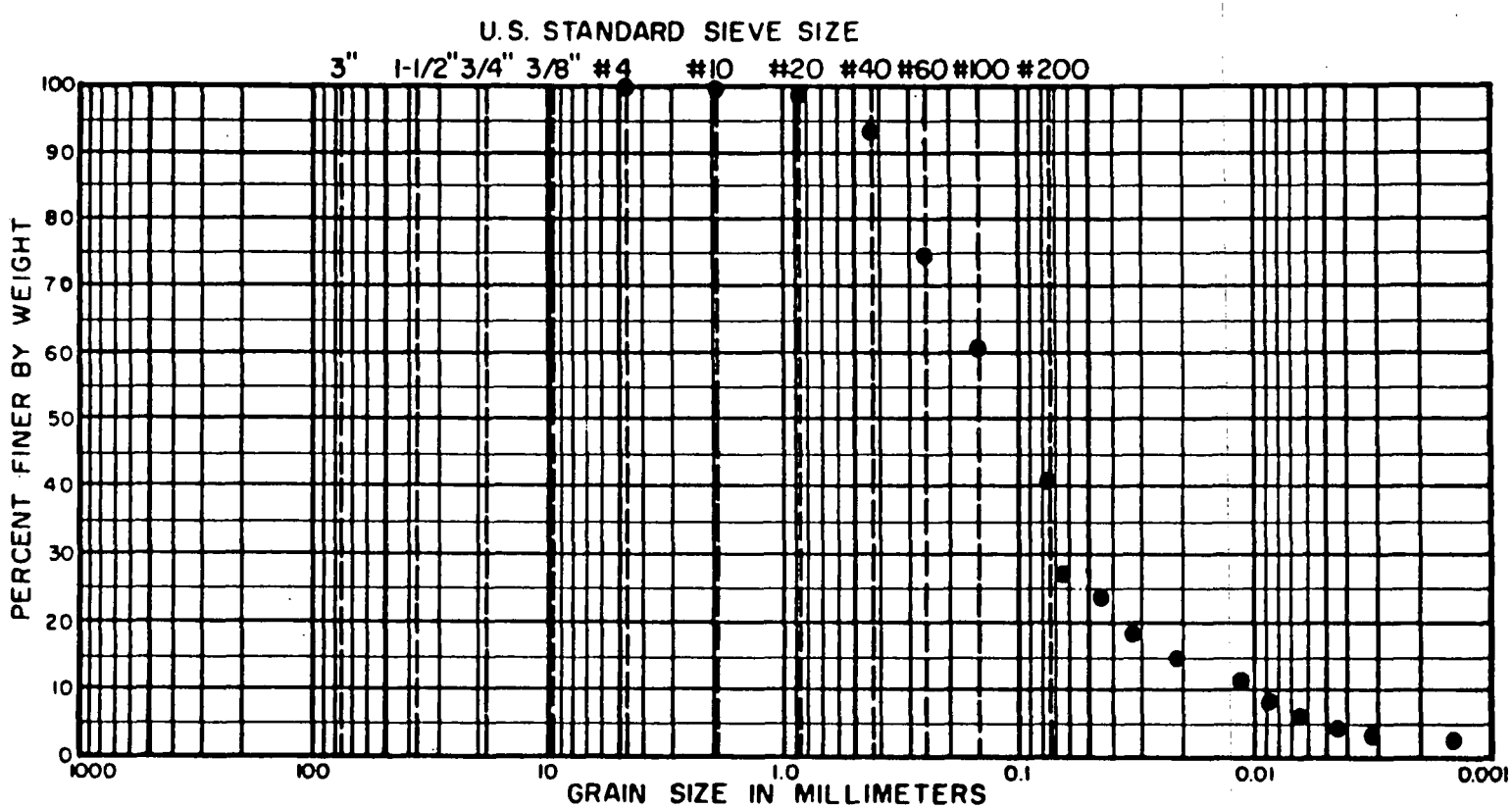
CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13A
BORING NO.	G2-131	SAMPLED	4-17-95
DEPTH	65.0-66.5'	DATE TESTED	5-26-95 REW
SAMPLE NO.	404724	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	24.7
Sp. Gr. of Soil	2.78	Temp. Coef. K	0.01243
Value of "alpha"	0.97	Wt. Dry Sample "W"	55.067
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	4.5		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	21.00	15.50	27.4	27.4	12.85	0.0630
1.0	19.00	13.50	23.9	23.9	13.17	0.0451
2.0	16.00	10.50	18.6	18.6	13.67	0.0325
5.0	14.00	8.50	15.0	15.0	13.99	0.0208
15.0	12.00	6.50	11.5	11.5	14.32	0.0121
30.0	10.00	4.50	8.0	8.0	14.65	0.0087
60.0	9.00	3.50	6.2	6.2	14.81	0.0062
120.0	8.00	2.50	4.4	4.4	14.98	0.0044
250.0	7.50	2.00	3.5	3.5	15.06	0.0031
1337.0	7.00	1.50	2.7	2.7	15.14	0.0013

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

LOCATION	DEPTH	CLASSIFICATION
G2-131	65.0-66.5'	

404724

ADVANCED TERRA TESTING

440

000507

424

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13A

BORING NO.	G2-131	SAMPLED	4-17-95
DEPTH	70.0-71.5'	DATE TESTED	6-1-95 REW
SAMPLE NO.	404725	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC	Yes	
NATURAL	No	
Wt. Wet Soil & Pan	(g)	58.87
Wt. Dry Soil & Pan	(g)	58.73
Wt. Lost Moisture	(g)	0.14
Wt. of Pan Only	(g)	3.56
Wt. of Dry Soil	(g)	55.17
Moisture Content	%	0.3
Wt. Hydrom. Sample Wet	(g)	58.45
Wt. Hydrom. Sample Dry	(g)	58.31

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	556.91
Weight of + #10 Before Washing (g)	17.78
Weight of + #10 After Washing (g)	16.14
Weight of - #10 Wet (g)	539.13
Weight of - #10 Dry (g)	539.40
Wt. Total Sample Dry (g)	555.54
Calc. Wt. "W" (g)	60.05
Calc. Mass + #10	1.74

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	0.00	0.00	0.00	0.0	100.0
3/8"	0.00	0.00	0.00	0.00	0.0	100.0
#4	0.00	0.70	0.70	0.70	0.1	99.9
#10	0.00	15.44	15.44	16.14	2.9	97.1
#20	1.59	7.76	6.17	6.17	13.2	86.8
#40	1.58	13.18	11.60	17.77	32.5	67.5
#60	1.59	17.51	15.92	33.69	59.0	41.0
#100	1.58	10.04	8.46	42.15	73.1	26.9
#200	1.56	6.36	4.80	46.95	81.1	18.9

Data entered by: NAA Date: 6-5-95
Data checked by: DR Date: 6-5-95
FileName:SAH0725

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

CLIENT SAIC/Parsons PO 140 JOB NO. 2059-13A

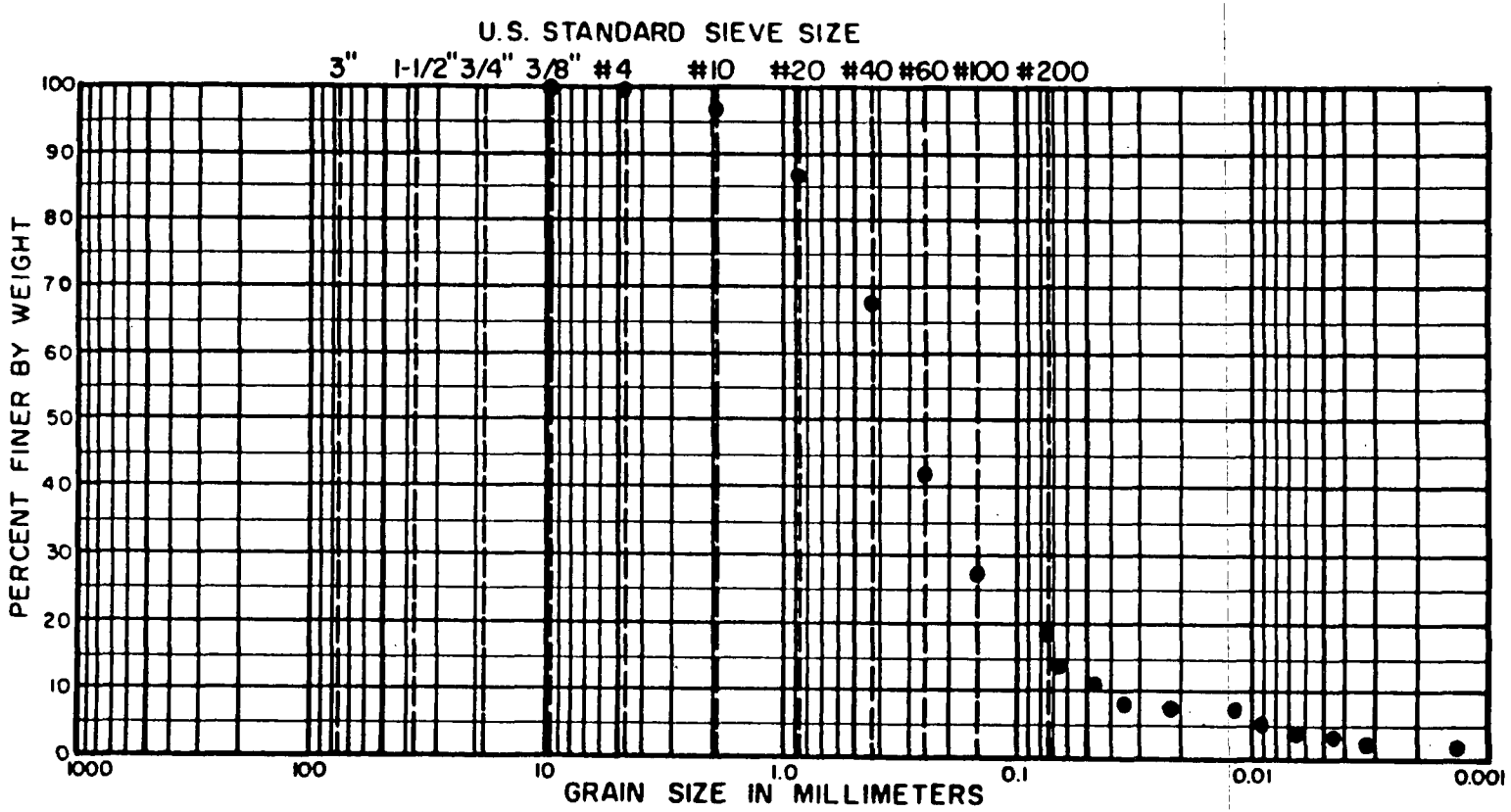
BORING NO.	G2-131	SAMPLED	4-17-95
DEPTH	70.0-71.5'	DATE TESTED	6-1-95 REW
SAMPLE NO.	404725	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	24.7
Sp. Gr. of Soil	2.67	Temp. Coef. K	0.01283
Value of "alpha"	1.00	Wt. Dry Sample "W"	60.050
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	5.0		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	14.00	8.00	13.3	13.3	13.99	0.0679
1.0	12.50	6.50	10.8	10.8	14.24	0.0484
2.0	11.25	5.25	8.7	8.7	14.45	0.0345
5.0	11.00	5.00	8.3	8.3	14.49	0.0218
15.0	10.50	4.50	7.5	7.5	14.57	0.0126
30.0	9.00	3.00	5.0	5.0	14.81	0.0090
60.0	8.50	2.50	4.1	4.1	14.90	0.0064
120.0	8.00	2.00	3.3	3.3	14.98	0.0045
250.0	7.00	1.00	1.7	1.7	15.14	0.0032
1305.0	7.00	1.00	1.7	1.7	15.14	0.0014

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

LOCATION	DEPTH	CLASSIFICATION
G2-131	70.0 – 71.5'	

404725

443

474

ADVANCED TERRA TESTING

000510

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13A

BORING NO.	G2-131	SAMPLED	4-17-95
DEPTH	75.0-76.5'	DATE TESTED	6-5-95 REW
SAMPLE NO.	404726	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC Yes

NATURAL No

Wt. Wet Soil & Pan	(g)	39.80
Wt. Dry Soil & Pan	(g)	39.72
Wt. Lost Moisture	(g)	0.08
Wt. of Pan Only	(g)	3.71
Wt. of Dry Soil	(g)	36.01
Moisture Content	%	0.2

Wt. Hydrom. Sample Wet (g)	58.40
Wt. Hydrom. Sample Dry (g)	58.27

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	503.63
Weight of + #10 Before Washing (g)	253.01
Weight of + #10 After Washing (g)	245.78
Weight of - #10 Wet (g)	250.62
Weight of - #10 Dry (g)	257.28
Wt. Total Sample Dry (g)	503.06
Calc. Wt. "W" (g)	113.94
Calc. Mass + #10	55.67

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	35.63	35.63	35.63	7.1	92.9
3/8"	0.00	45.35	45.35	80.98	16.1	83.9
#4	0.00	76.43	76.43	157.41	31.3	68.7
#10	0.00	88.37	88.37	245.78	48.9	51.1
#20	1.59	13.64	12.05	12.05	59.4	40.6
#40	1.57	10.37	8.80	20.85	67.2	32.8
#60	1.58	11.44	9.86	30.71	75.8	24.2
#100	1.59	7.38	5.79	36.50	80.9	19.1
#200	1.56	5.73	4.17	40.67	84.6	15.4

Data entered by: NAA Date: 6-8-95
Data checked by: JBR Date: 6-9-95
FileName:SAH0726

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

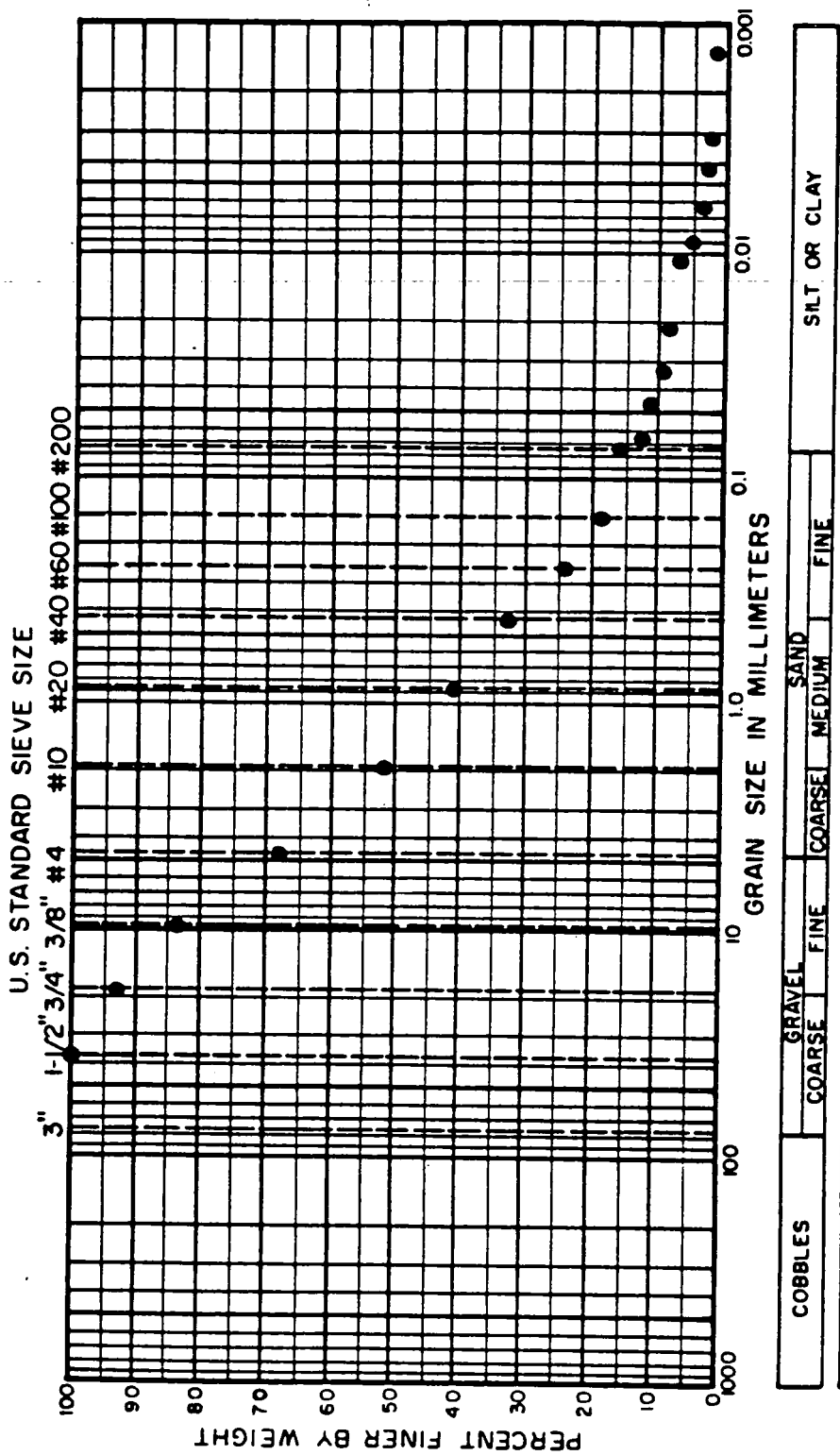
CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13A
BORING NO.	G2-131	SAMPLED	4-17-95
DEPTH	75.0-76.5'	DATE TESTED	6-5-95 REW
SAMPLE NO.	404726	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	24.6
Sp. Gr. of Soil	2.77	Temp. Coef. K	0.01247
Value of "alpha"	0.98	Wt. Dry Sample "W"	113.943
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	4.5		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	19.00	13.50	11.6	11.6	13.17	0.0640
1.0	18.25	12.75	10.9	10.9	13.30	0.0455
2.0	16.50	11.00	9.4	9.4	13.58	0.0325
5.0	15.00	9.50	8.1	8.1	13.83	0.0207
15.0	13.00	7.50	6.4	6.4	14.16	0.0121
30.0	11.00	5.50	4.7	4.7	14.49	0.0087
60.0	10.00	4.50	3.9	3.9	14.65	0.0062
120.0	9.00	3.50	3.0	3.0	14.81	0.0044
250.0	8.00	2.50	2.1	2.1	14.98	0.0031
1398.0	7.50	2.00	1.7	1.7	15.06	0.0013

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



404726

ADVANCED TERRA TESTING

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13A

BORING NO.	G2-131	SAMPLED	4-17-95
DEPTH	81.0-82.3'	DATE TESTED	5-25-95 REW
SAMPLE NO.	404727	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC	Yes	
NATURAL	No	
Wt. Wet Soil & Pan	(g)	51.74
Wt. Dry Soil & Pan	(g)	51.64
Wt. Lost Moisture	(g)	0.10
Wt. of Pan Only	(g)	3.76
Wt. of Dry Soil	(g)	47.88
Moisture Content	%	0.2
Wt. Hydrom. Sample Wet	(g)	55.38
Wt. Hydrom. Sample Dry	(g)	55.26

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	529.62
Weight of + #10 Before Washing (g)	197.98
Weight of + #10 After Washing (g)	189.63
Weight of - #10 Wet (g)	331.64
Weight of - #10 Dry (g)	339.28
Wt. Total Sample Dry (g)	528.91
Calc. Wt. "W" (g)	86.15
Calc. Mass + #10	30.89

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	12.27	12.27	12.27	2.3	97.7
3/8"	0.00	17.56	17.56	29.83	5.6	94.4
#4	0.00	73.41	73.41	103.24	19.5	80.5
#10	0.00	86.39	86.39	189.63	35.9	64.1
#20	1.57	13.03	11.46	11.46	49.2	50.8
#40	1.57	13.97	12.40	23.86	63.5	36.5
#60	1.58	11.56	9.98	33.84	75.1	24.9
#100	1.57	7.50	5.93	39.77	82.0	18.0
#200	1.57	4.93	3.36	43.13	85.9	14.1

Data entered by: NAA Date: 6-1-95
Data checked by: DRR Date: 6-5-95
FileName:SAH0727

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

CLIENT SAIC/Parsons PO 140 JOB NO. 2059-13A

BORING NO.	G2-131	SAMPLED	4-17-95
DEPTH	81.0-82.3'	DATE TESTED	5-25-95 REW
SAMPLE NO.	404727	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	23.8
Sp. Gr. of Soil	2.79	Temp. Coef. K	0.01253
Value of "alpha"	0.97	Wt. Dry Sample "W"	86.148
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	4.5		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	15.00	9.50	10.7	10.7	13.83	0.0659
1.0	14.00	8.50	9.6	9.6	13.99	0.0469
2.0	12.25	6.75	7.6	7.6	14.28	0.0335
5.0	11.75	6.25	7.1	7.1	14.36	0.0212
15.0	11.00	5.50	6.2	6.2	14.49	0.0123
30.0	9.00	3.50	3.9	3.9	14.81	0.0088
60.0	8.75	3.25	3.7	3.7	14.86	0.0062
120.0	8.00	2.50	2.8	2.8	14.98	0.0044
250.0	7.25	1.75	2.0	2.0	15.10	0.0031
1218.0	7.25	1.75	2.0	2.0	15.10	0.0014

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13H

BORING NO.	G2-132	SAMPLED	4-27-95 MM
DEPTH	5.0-7.0'	DATE TESTED	6-26-95 DPM
SAMPLE NO.	405102	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC Yes

NATURAL No

Wt. Wet Soil & Pan	(g)	81.47
Wt. Dry Soil & Pan	(g)	80.07
Wt. Lost Moisture	(g)	1.40
Wt. of Pan Only	(g)	8.37
Wt. of Dry Soil	(g)	71.70
Moisture Content	%	2.0

Wt. Hydrom. Sample Wet (g)	55.74
Wt. Hydrom. Sample Dry (g)	54.67

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	588.80
Weight of + #10 Before Washing (g)	0.24
Weight of + #10 After Washing (g)	0.19
Weight of - #10 Wet (g)	588.56
Weight of - #10 Dry (g)	577.34
Wt. Total Sample Dry (g)	577.53
Calc. Wt. "W" (g)	54.69
Calc. Mass + #10	0.02

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	0.00	0.00	0.00	0.0	100.0
3/8"	0.00	0.00	0.00	0.00	0.0	100.0
#4	0.00	0.00	0.00	0.00	0.0	100.0
#10	0.00	0.19	0.19	0.19	0.0	100.0
#20	1.56	1.92	0.36	0.36	0.7	99.3
#40	1.60	2.15	0.55	0.91	1.7	98.3
#60	1.59	2.30	0.71	1.62	3.0	97.0
#100	1.57	2.56	0.99	2.61	4.8	95.2
#200	1.58	2.81	1.23	3.84	7.1	92.9

Data entered by: NAA Date: 6-28-95
Data checked by: cal Date: 6-29-95
FileName:SAH05102

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

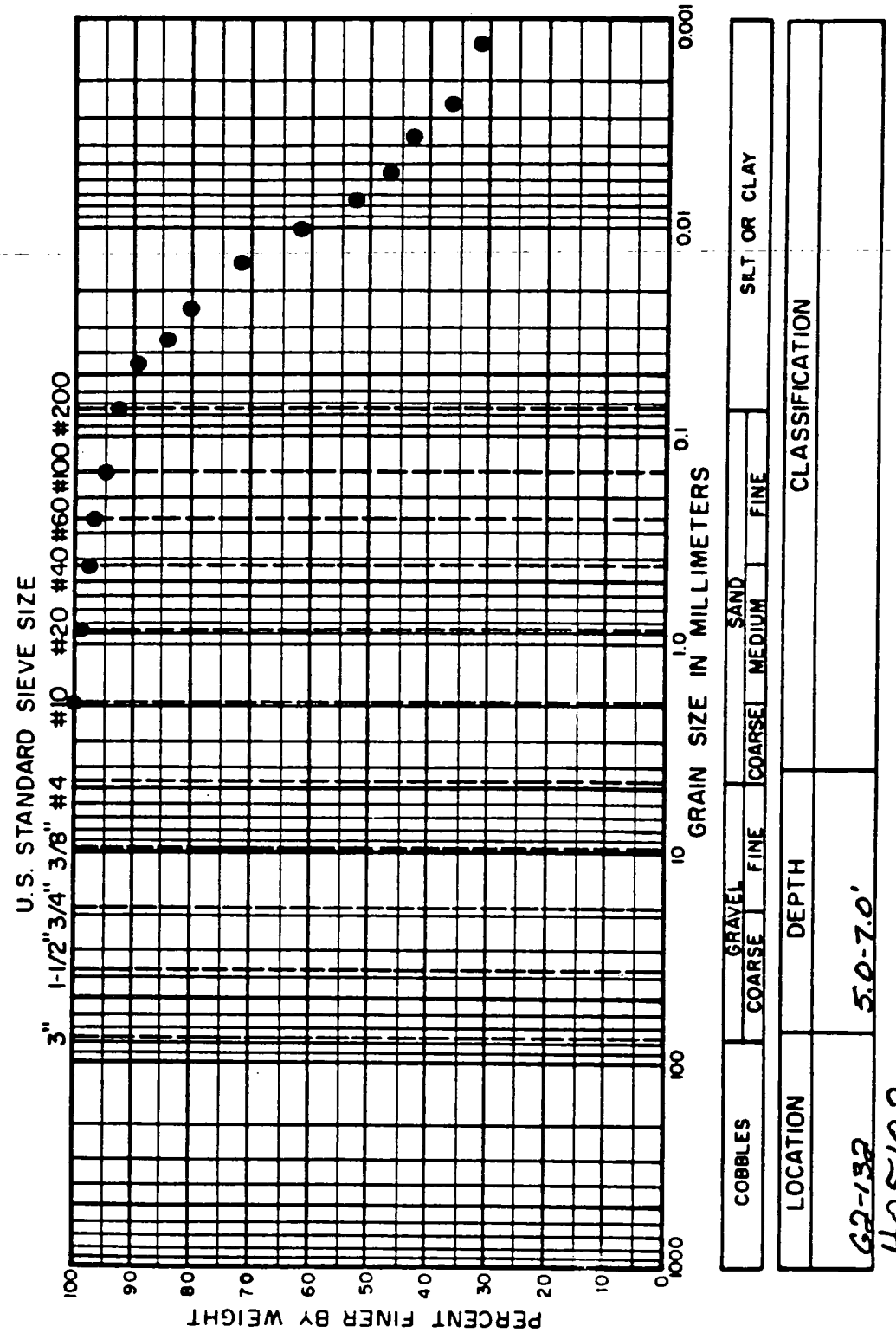
CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13H
BORING NO.	G2-132	SAMPLED	4-27-95 MM
DEPTH	5.0-7.0'	DATE TESTED	6-26-95 DPM
SAMPLE NO.	405102	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	27.3
Sp. Gr. of Soil	2.71	Temp. Coef. K	0.01231
Value of "alpha"	0.99	Wt. Dry Sample "W"	54.692
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	4.5		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Hydrometer Reading Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	55.00	49.50	89.4	89.4	7.27	0.0469
1.0	52.00	46.50	84.0	84.0	7.76	0.0343
2.0	50.00	44.50	80.4	80.4	8.09	0.0248
5.0	45.00	39.50	71.4	71.4	8.91	0.0164
15.0	39.25	33.75	61.0	61.0	9.85	0.0100
30.0	35.00	29.50	53.3	53.3	10.55	0.0073
60.0	31.50	26.00	47.0	47.0	11.12	0.0053
120.0	30.00	24.50	44.3	44.3	11.37	0.0038
250.0	25.50	20.00	36.1	36.1	12.11	0.0027
1439.0	22.50	17.00	30.7	30.7	12.60	0.0012

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



ADVANCED TERRA TESTING

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13H

BORING NO.	G2-132	SAMPLED	4-27-95 MM
DEPTH	10.0-12.0'	DATE TESTED	6-8-95 REW
SAMPLE NO.	405105	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC	Yes	
NATURAL	No	
Wt. Wet Soil & Pan	(g)	52.69
Wt. Dry Soil & Pan	(g)	52.05
Wt. Lost Moisture	(g)	0.64
Wt. of Pan Only	(g)	3.58
Wt. of Dry Soil	(g)	48.47
Moisture Content	%	1.3
Wt. Hydrom. Sample Wet	(g)	55.22
Wt. Hydrom. Sample Dry	(g)	54.50

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	1383.78
Weight of + #10 Before Washing (g)	95.83
Weight of + #10 After Washing (g)	89.40
Weight of - #10 Wet (g)	1287.95
Weight of - #10 Dry (g)	1277.51
Wt. Total Sample Dry (g)	1366.91
Calc. Wt. "W" (g)	58.32
Calc. Mass + #10	3.81

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	27.63	27.63	27.63	2.0	98.0
3/8"	0.00	9.92	9.92	37.55	2.7	97.3
#4	0.00	24.66	24.66	62.21	4.6	95.4
#10	0.00	27.19	27.19	89.40	6.5	93.5
#20	1.57	3.41	1.84	1.84	9.7	90.3
#40	1.31	3.27	1.96	3.80	13.1	86.9
#60	1.58	3.31	1.73	5.53	16.0	84.0
#100	1.57	3.84	2.27	7.80	19.9	80.1
#200	1.58	4.64	3.06	10.86	25.2	74.8

Data entered by: NAA Date: 6-16-95
Data checked by: WEB Date: 6-22-95
FileName:SAH05105

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13H

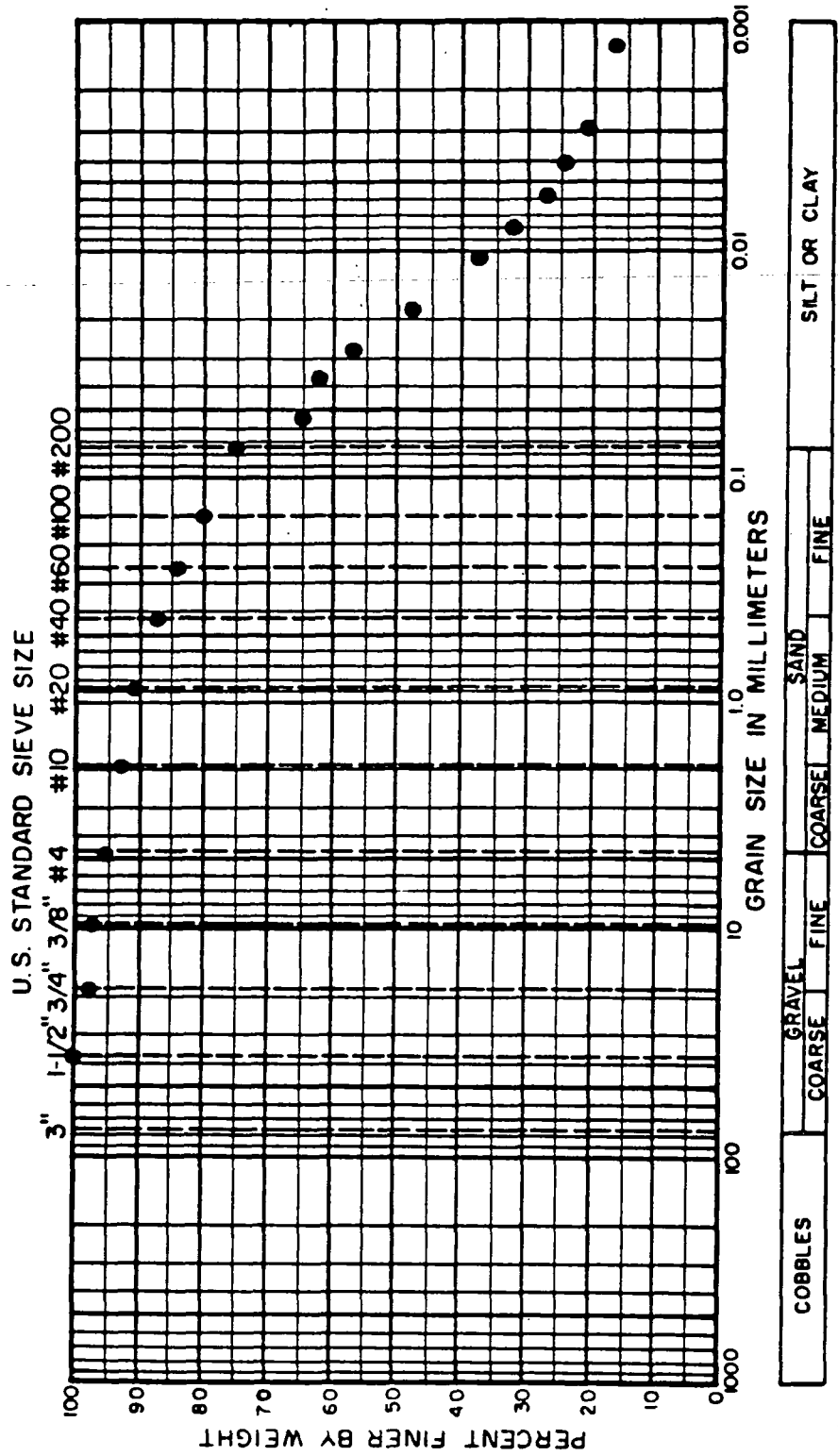
BORING NO.	G2-132	SAMPLED	4-27-95 MM
DEPTH	10.0-12.0'	DATE TESTED	6-8-95 REW
SAMPLE NO.	405105	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	24.7
Sp. Gr. of Soil	2.75	Temp. Coef. K	0.01254
Value of "alpha"	0.98	Wt. Dry Sample "W"	58.316
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	4.5		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	44.00	38.50	64.7	64.7	9.07	0.0534
1.0	42.50	37.00	62.2	62.2	9.32	0.0383
2.0	39.25	33.75	56.7	56.7	9.85	0.0278
5.0	34.00	28.50	47.9	47.9	10.71	0.0183
15.0	28.00	22.50	37.8	37.8	11.70	0.0111
30.0	25.00	19.50	32.8	32.8	12.19	0.0080
60.0	22.00	16.50	27.7	27.7	12.68	0.0058
120.0	20.00	14.50	24.4	24.4	13.01	0.0041
250.0	18.00	12.50	21.0	21.0	13.34	0.0029
1200.0	15.50	10.00	16.8	16.8	13.75	0.0013

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



LOCATION	DEPTH	CLASSIFICATION
62-132	10.0-12.0'	

405-105

ADVANCED TERRA TESTING

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13H

BORING NO.	G2-132	SAMPLED	4-27-95 MM
DEPTH	15.0-17.0'	DATE TESTED	6-15-95 DPM, REW
SAMPLE NO.	405108	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC Yes

NATURAL No

Wt. Wet Soil & Pan	(g)	97.29
Wt. Dry Soil & Pan	(g)	96.46
Wt. Lost Moisture	(g)	0.83
Wt. of Pan Only	(g)	8.07
Wt. of Dry Soil	(g)	88.39
Moisture Content	%	0.9

Wt. Hydrom. Sample Wet (g)	56.79
Wt. Hydrom. Sample Dry (g)	56.26

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	1439.11
Weight of + #10 Before Washing (g)	145.07
Weight of + #10 After Washing (g)	136.48
Weight of - #10 Wet (g)	1294.04
Weight of - #10 Dry (g)	1290.51
Wt. Total Sample Dry (g)	1426.99
Calc. Wt. "W" (g)	62.21
Calc. Mass + #10	5.95

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	20.72	20.72	20.72	1.5	98.5
3/8"	0.00	24.98	24.98	45.70	3.2	96.8
#4	0.00	48.10	48.10	93.80	6.6	93.4
#10	0.00	42.68	42.68	136.48	9.6	90.4
#20	1.57	4.36	2.79	2.79	14.0	86.0
#40	1.56	3.85	2.29	5.08	17.7	82.3
#60	1.58	3.72	2.14	7.22	21.2	78.8
#100	1.58	4.15	2.57	9.79	25.3	74.7
#200	1.57	4.92	3.35	13.14	30.7	69.3

Data entered by: NAA Date: 6-26-95
Data checked by: cal Date: 6-29-95
FileName:SAH05108

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13H
BORING NO.	G2-132	SAMPLED	4-27-95 MM
DEPTH	15.0-17.0'	DATE TESTED	6-15-95 DPM, REW
SAMPLE NO.	405108	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	26.2
Sp. Gr. of Soil	2.75	Temp. Coef. K	0.01232
Value of "alpha"	0.98	Wt. Dry Sample "W"	62.206
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	5.0		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	43.00	37.00	58.3	58.3	9.24	0.0530
1.0	40.25	34.25	54.0	54.0	9.69	0.0383
2.0	37.25	31.25	49.2	49.2	10.18	0.0278
5.0	32.50	26.50	41.7	41.7	10.96	0.0182
15.0	27.50	21.50	33.9	33.9	11.78	0.0109
30.0	24.00	18.00	28.4	28.4	12.35	0.0079
60.0	21.00	15.00	23.6	23.6	12.85	0.0057
120.0	19.00	13.00	20.5	20.5	13.17	0.0041
250.0	17.00	11.00	17.3	17.3	13.50	0.0029
1450.0	14.00	8.00	12.6	12.6	13.99	0.0012

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13H

BORING NO.	G2-132	SAMPLED	4-27-95 MM
DEPTH	20.0-22.0'	DATE TESTED	6-14-95 DPM, REW
SAMPLE NO.	405111	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC Yes

NATURAL No

Wt. Wet Soil & Pan	(g)	64.65
Wt. Dry Soil & Pan	(g)	64.24
Wt. Lost Moisture	(g)	0.41
Wt. of Pan Only	(g)	3.79
Wt. of Dry Soil	(g)	60.45
Moisture Content	%	0.7

Wt. Hydrom. Sample Wet (g)	55.16
Wt. Hydrom. Sample Dry (g)	54.78

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	1529.53
Weight of + #10 Before Washing (g)	204.45
Weight of + #10 After Washing (g)	186.77
Weight of - #10 Wet (g)	1325.08
Weight of - #10 Dry (g)	1333.71
Wt. Total Sample Dry (g)	1520.48
Calc. Wt. "W" (g)	62.46
Calc. Mass + #10	7.67

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	38.20	38.20	38.20	2.5	97.5
3/8"	0.00	51.63	51.63	89.83	5.9	94.1
#4	0.00	45.93	45.93	135.76	8.9	91.1
#10	0.00	51.01	51.01	186.77	12.3	87.7
#20	1.58	4.30	2.72	2.72	16.6	83.4
#40	1.57	4.03	2.46	5.18	20.6	79.4
#60	1.58	3.80	2.22	7.40	24.1	75.9
#100	1.58	2.80	1.22	8.62	26.1	73.9
#200	1.57	5.08	3.51	12.13	31.7	68.3

Data entered by: NAA Date: 6-26-95
Data checked by: cal Date: 6-29-95
FileName:SAH05111

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13H

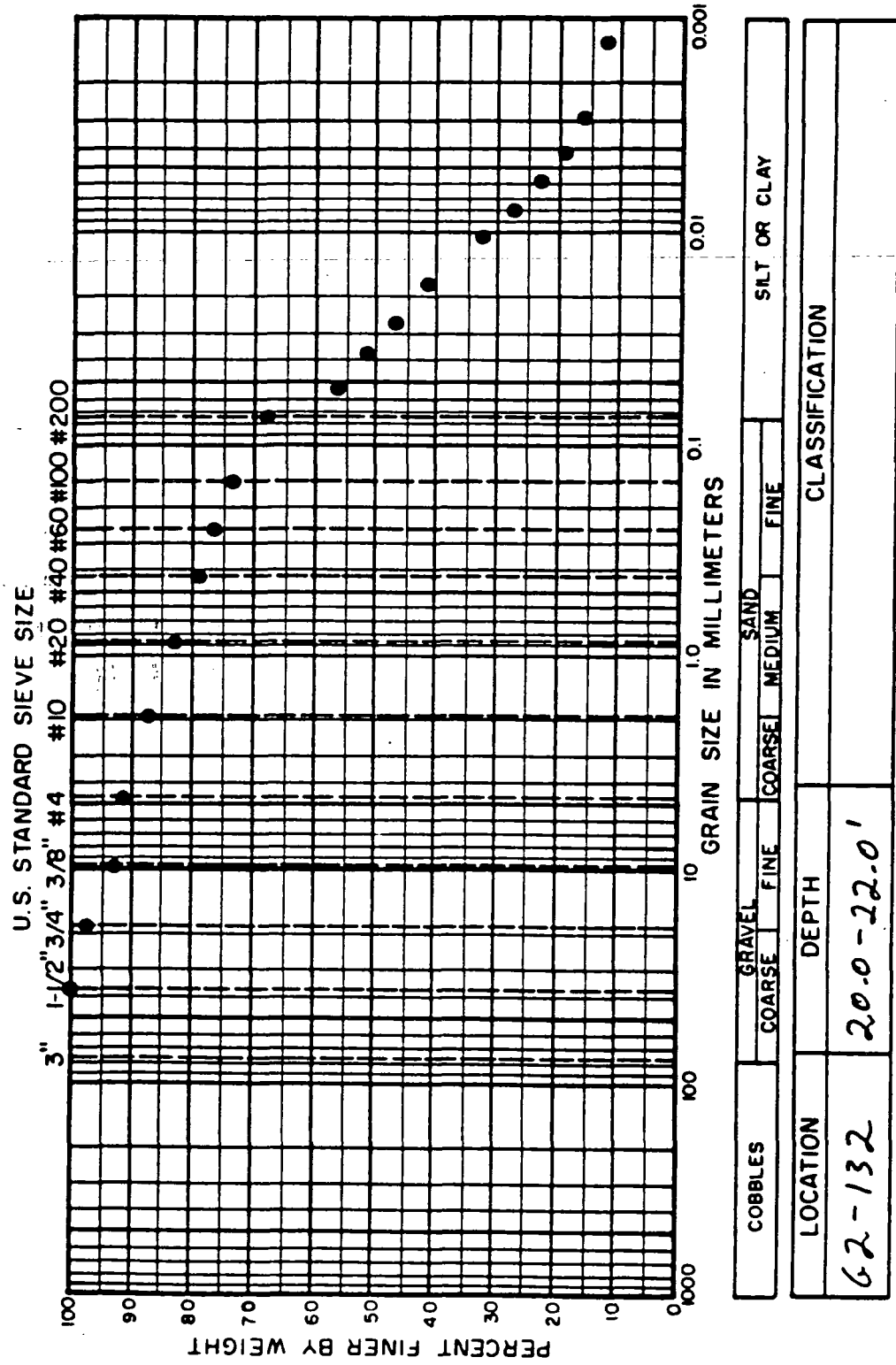
BORING NO.	G2-132	SAMPLED	4-27-95 MM
DEPTH	20.0-22.0'	DATE TESTED	6-14-95 DPM, REW
SAMPLE NO.	405111	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	26.5
Sp. Gr. of Soil	2.76	Temp. Coef. K	0.01225
Value of "alpha"	0.98	Wt. Dry Sample "W"	62.456
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	5.0		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	42.00	36.00	56.4	56.4	9.40	0.0531
1.0	39.00	33.00	51.7	51.7	9.89	0.0385
2.0	36.00	30.00	47.0	47.0	10.39	0.0279
5.0	32.00	26.00	40.7	40.7	11.04	0.0182
15.0	27.00	21.00	32.9	32.9	11.86	0.0109
30.0	23.50	17.50	27.4	27.4	12.44	0.0079
60.0	21.00	15.00	23.5	23.5	12.85	0.0057
120.0	18.50	12.50	19.6	19.6	13.26	0.0041
250.0	16.00	10.00	15.7	15.7	13.67	0.0029
1243.0	14.00	8.00	12.5	12.5	13.99	0.0013

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



405111

ADVANCED TERRA TESTING

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/PARSONS PO 140

JOB NO. 2059-13D

BORING NO.	G2-133	SAMPLED	4-21-95
DEPTH	2.5-4.5'	DATE TESTED	7-26-95 CAL, REW
SAMPLE NO.	405053	WASH SIEVE	Yes
SOIL DESCR.	FERNALD	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC Yes

NATURAL No

Wt. Wet Soil & Pan	(g)	63.38
Wt. Dry Soil & Pan	(g)	62.12
Wt. Lost Moisture	(g)	1.26
Wt. of Pan Only	(g)	3.71
Wt. of Dry Soil	(g)	58.41
Moisture Content	%	2.2

Wt. Hydrom. Sample Wet (g)	50.18
Wt. Hydrom. Sample Dry (g)	49.12

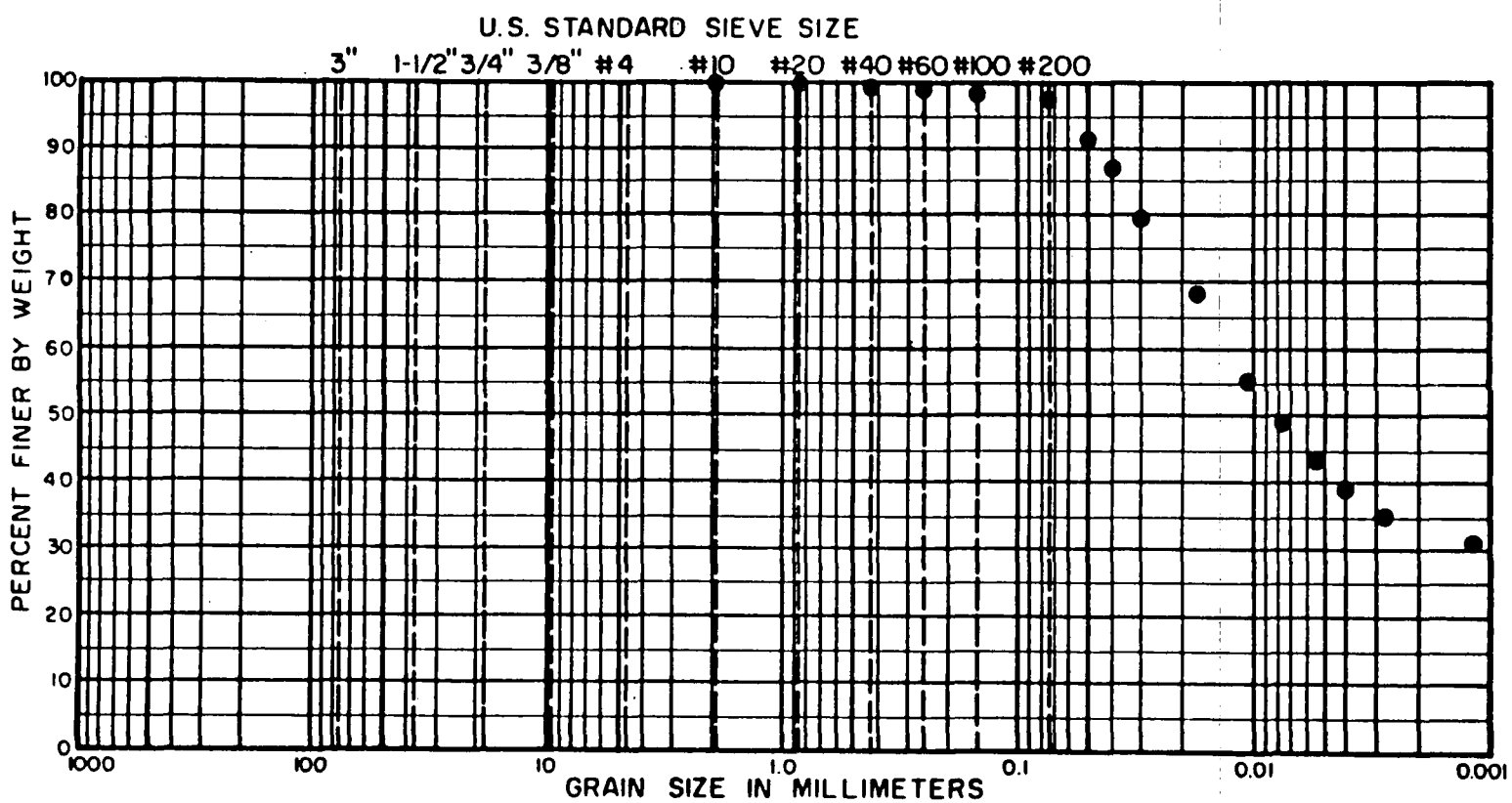
WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	50.18
Weight of + #10 Before Washing (g)	0.00
Weight of + #10 After Washing (g)	0.00
Weight of - #10 Wet (g)	50.18
Weight of - #10 Dry (g)	49.12
Wt. Total Sample Dry (g)	49.12
Calc. Wt. "W" (g)	49.12
Calc. Mass + #10	0.00

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	0.00	0.00	0.00	0.0	100.0
3/8"	0.00	0.00	0.00	0.00	0.0	100.0
#4	0.00	0.00	0.00	0.00	0.0	100.0
#10	0.00	0.00	0.00	0.00	0.0	100.0
#20	1.59	1.66	0.07	0.07	0.1	99.9
#40	1.57	1.68	0.11	0.18	0.4	99.6
#60	1.58	1.77	0.19	0.37	0.8	99.2
#100	1.58	1.92	0.34	0.71	1.4	98.6
#200	1.59	1.96	0.37	1.08	2.2	97.8

Data entered by: CAL Date: 7-29-95
Data checked by: WEB Date: 7-30-95
FileName:SAH05053

ADVANCED TERRA TESTING, INC.



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

LOCATION	DEPTH	CLASSIFICATION
G2-133	2.5-4.5'	

405053

ADVANCED TERRA TESTING

464

000528

474

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13D

BORING NO.	G2-133	SAMPLED	4-21-95 MM
DEPTH	7.5-9.5'	DATE TESTED	6-14-95 DPM, REW
SAMPLE NO.	405055	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC Yes

NATURAL No

Wt. Wet Soil & Pan	(g)	85.77
Wt. Dry Soil & Pan	(g)	84.61
Wt. Lost Moisture	(g)	1.16
Wt. of Pan Only	(g)	8.36
Wt. of Dry Soil	(g)	76.25
Moisture Content	%	1.5

Wt. Hydrom. Sample Wet (g)	58.73
Wt. Hydrom. Sample Dry (g)	57.85

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	2119.68
Weight of + #10 Before Washing (g)	172.21
Weight of + #10 After Washing (g)	159.85
Weight of - #10 Wet (g)	1947.47
Weight of - #10 Dry (g)	1930.46
Wt. Total Sample Dry (g)	2090.31
Calc. Wt. "W" (g)	62.64
Calc. Mass + #10	4.79

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	32.14	32.14	32.14	1.5	98.5
3/8"	0.00	27.58	27.58	59.72	2.9	97.1
#4	0.00	52.40	52.40	112.12	5.4	94.6
#10	0.00	47.73	47.73	159.85	7.6	92.4
#20	1.58	5.17	3.59	3.59	13.4	86.6
#40	1.60	4.12	2.52	6.11	17.4	82.6
#60	1.61	3.98	2.37	8.48	21.2	78.8
#100	1.57	4.51	2.94	11.42	25.9	74.1
#200	1.56	5.30	3.74	15.16	31.8	68.2

Data entered by: NAA Date: 6-19-95
Data checked by: WEB Date: 6-20-95
FileName:SAH05055

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

CLIENT SAIC/Parsons PO 140 JOB NO. 2059-13D

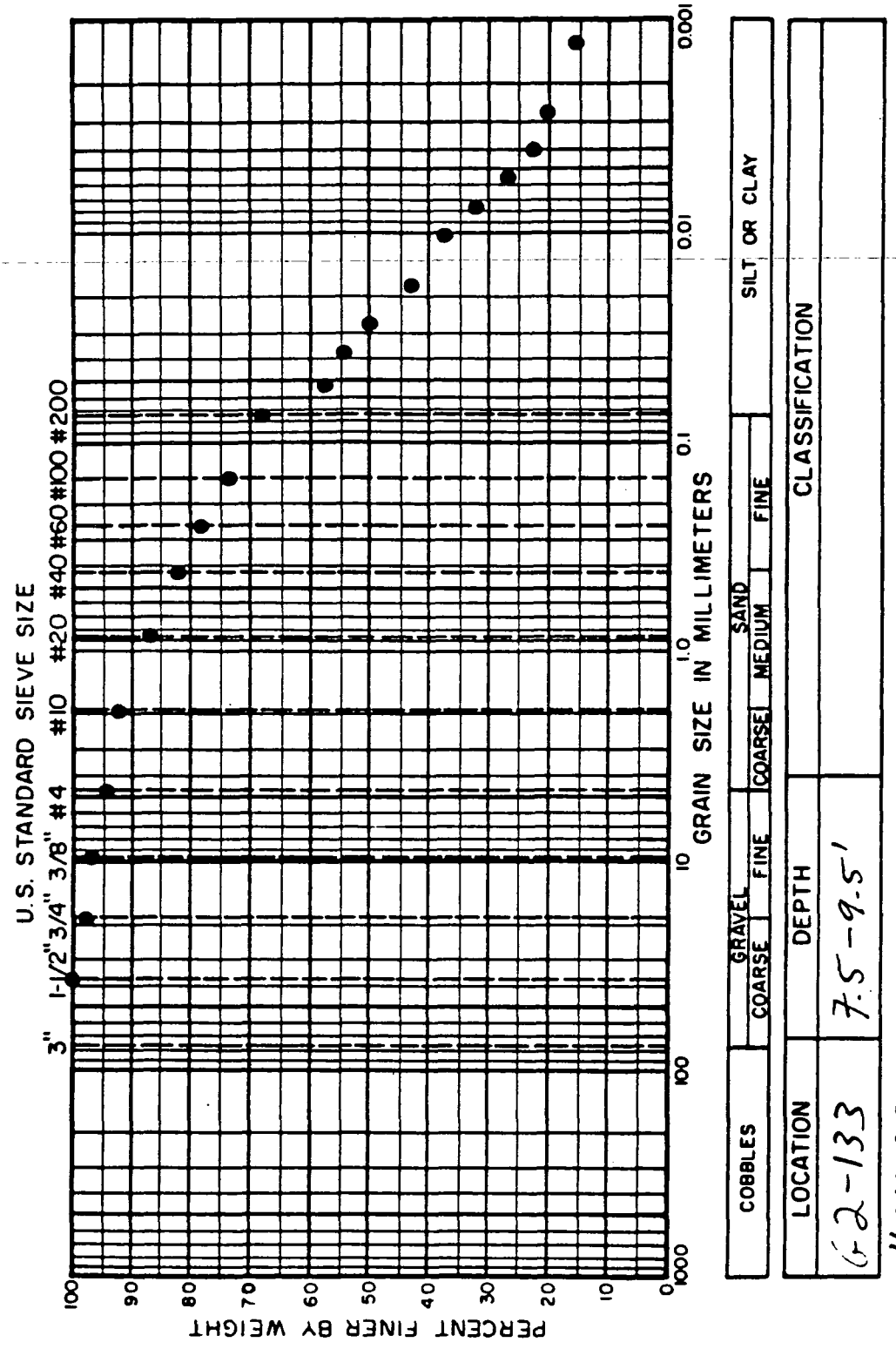
BORING NO.	G2-133	SAMPLED	4-21-95 MM
DEPTH	7.5-9.5'	DATE TESTED	6-14-95 DPM, REW
SAMPLE NO.	405055	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	26.4
Sp. Gr. of Soil	2.77	Temp. Coef. K	0.01223
Value of "alpha"	0.98	Wt. Dry Sample "W"	62.638
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	5.0		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	43.00	37.00	57.7	57.7	9.24	0.0526
1.0	41.00	35.00	54.5	54.5	9.57	0.0378
2.0	38.00	32.00	49.9	49.9	10.06	0.0274
5.0	34.00	28.00	43.6	43.6	10.71	0.0179
15.0	30.00	24.00	37.4	37.4	11.37	0.0106
30.0	26.50	20.50	31.9	31.9	11.94	0.0077
60.0	23.00	17.00	26.5	26.5	12.52	0.0056
120.0	21.00	15.00	23.4	23.4	12.85	0.0040
250.0	19.00	13.00	20.3	20.3	13.17	0.0028
1253.0	16.00	10.00	15.6	15.6	13.67	0.0013

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



LOCATION	DEPTH	CLASSIFICATION
62-133	7.5-9.5'	

405055

ADVANCED TERRA TESTING

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13D

BORING NO.	G2-133	SAMPLED	4-21-95 MM
DEPTH	15.0-17.0'	DATE TESTED	6-14-95 REW, DM
SAMPLE NO.	405059	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC Yes

NATURAL No

Wt. Wet Soil & Pan	(g)	93.75
Wt. Dry Soil & Pan	(g)	93.36
Wt. Lost Moisture	(g)	0.39
Wt. of Pan Only	(g)	8.35
Wt. of Dry Soil	(g)	85.01
Moisture Content	%	0.5

Wt. Hydrom. Sample Wet (g)	59.90
Wt. Hydrom. Sample Dry (g)	59.63

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	1556.28
Weight of + #10 Before Washing (g)	204.95
Weight of + #10 After Washing (g)	191.21
Weight of - #10 Wet (g)	1351.33
Weight of - #10 Dry (g)	1358.84
Wt. Total Sample Dry (g)	1550.05
Calc. Wt. "W" (g)	68.02
Calc. Mass + #10	8.39

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	12.96	12.96	12.96	0.8	99.2
3/8"	0.00	56.29	56.29	69.25	4.5	95.5
#4	0.00	64.75	64.75	134.00	8.6	91.4
#10	0.00	57.21	57.21	191.21	12.3	87.7
#20	1.58	5.10	3.52	3.52	17.5	82.5
#40	1.59	4.73	3.14	6.66	22.1	77.9
#60	1.57	4.53	2.96	9.62	26.5	73.5
#100	1.57	4.82	3.25	12.87	31.3	68.7
#200	1.59	5.57	3.98	16.85	37.1	62.9

Data entered by: NAA Date: 6-20-95
Data checked by: REW Date: 6-23-95
FileName:SAH05059

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

CLIENT SAIC/Parsons PO 140 JOB NO. 2059-13D

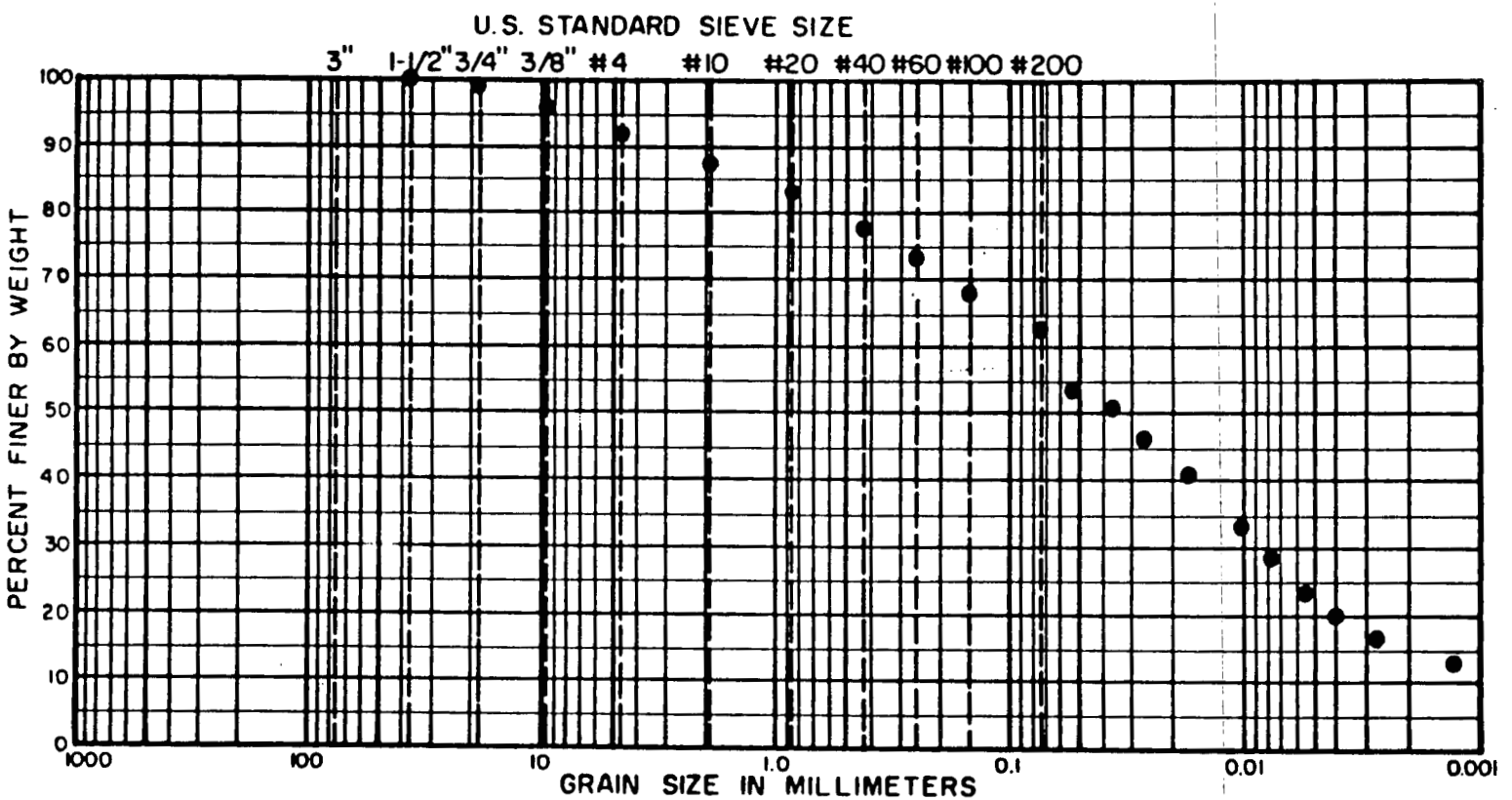
BORING NO.	G2-133	SAMPLED	4-21-95 MM
DEPTH	15.0-17.0'	DATE TESTED	6-14-95 REW, DM
SAMPLE NO.	405059	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	26.4
Sp. Gr. of Soil	2.75	Temp. Coef. K	0.01229
Value of "alpha"	0.98	Wt. Dry Sample "W"	68.017
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	5.0		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	43.00	37.00	53.3	53.3	9.24	0.0528
1.0	41.00	35.00	50.4	50.4	9.57	0.0380
2.0	38.00	32.00	46.1	46.1	10.06	0.0276
5.0	34.00	28.00	40.3	40.3	10.71	0.0180
15.0	29.00	23.00	33.1	33.1	11.53	0.0108
30.0	26.00	20.00	28.8	28.8	12.03	0.0078
60.0	22.50	16.50	23.8	23.8	12.60	0.0056
120.0	20.00	14.00	20.2	20.2	13.01	0.0040
250.0	17.50	11.50	16.6	16.6	13.42	0.0028
1248.0	15.00	9.00	13.0	13.0	13.83	0.0013

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

LOCATION	DEPTH	CLASSIFICATION
62-133	15.0-17.0'	

405059

ADVANCED TERRA TESTING

470

000534

474

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13D

BORING NO.	G2-133	SAMPLED	4-21-95 MM
DEPTH	17.5-19.5'	DATE TESTED	6-8-95 REW
SAMPLE NO.	405061	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC	Yes	
NATURAL	No	
Wt. Wet Soil & Pan	(g)	54.99
Wt. Dry Soil & Pan	(g)	54.55
Wt. Lost Moisture	(g)	0.44
Wt. of Pan Only	(g)	3.66
Wt. of Dry Soil	(g)	50.89
Moisture Content	%	0.9
Wt. Hydrom. Sample Wet	(g)	55.69
Wt. Hydrom. Sample Dry	(g)	55.21

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	1485.88
Weight of + #10 Before Washing (g)	109.80
Weight of + #10 After Washing (g)	102.03
Weight of - #10 Wet (g)	1376.08
Weight of - #10 Dry (g)	1371.99
Wt. Total Sample Dry (g)	1474.02
Calc. Wt. "W" (g)	59.31
Calc. Mass + #10	4.11

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	0.00	0.00	0.00	0.0	100.0
3/8"	0.00	11.55	11.55	11.55	0.8	99.2
#4	0.00	42.24	42.24	53.79	3.6	96.4
#10	0.00	48.24	48.24	102.03	6.9	93.1
#20	1.59	5.17	3.58	3.58	13.0	87.0
#40	1.58	4.05	2.47	6.05	17.1	82.9
#60	1.57	3.77	2.20	8.25	20.8	79.2
#100	1.58	4.06	2.48	10.73	25.0	75.0
#200	1.59	5.00	3.41	14.14	30.8	69.2

Data entered by: NAA Date: 6-16-95
Data checked by: SR Date: 6-16-95
FileName:SAH05061

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

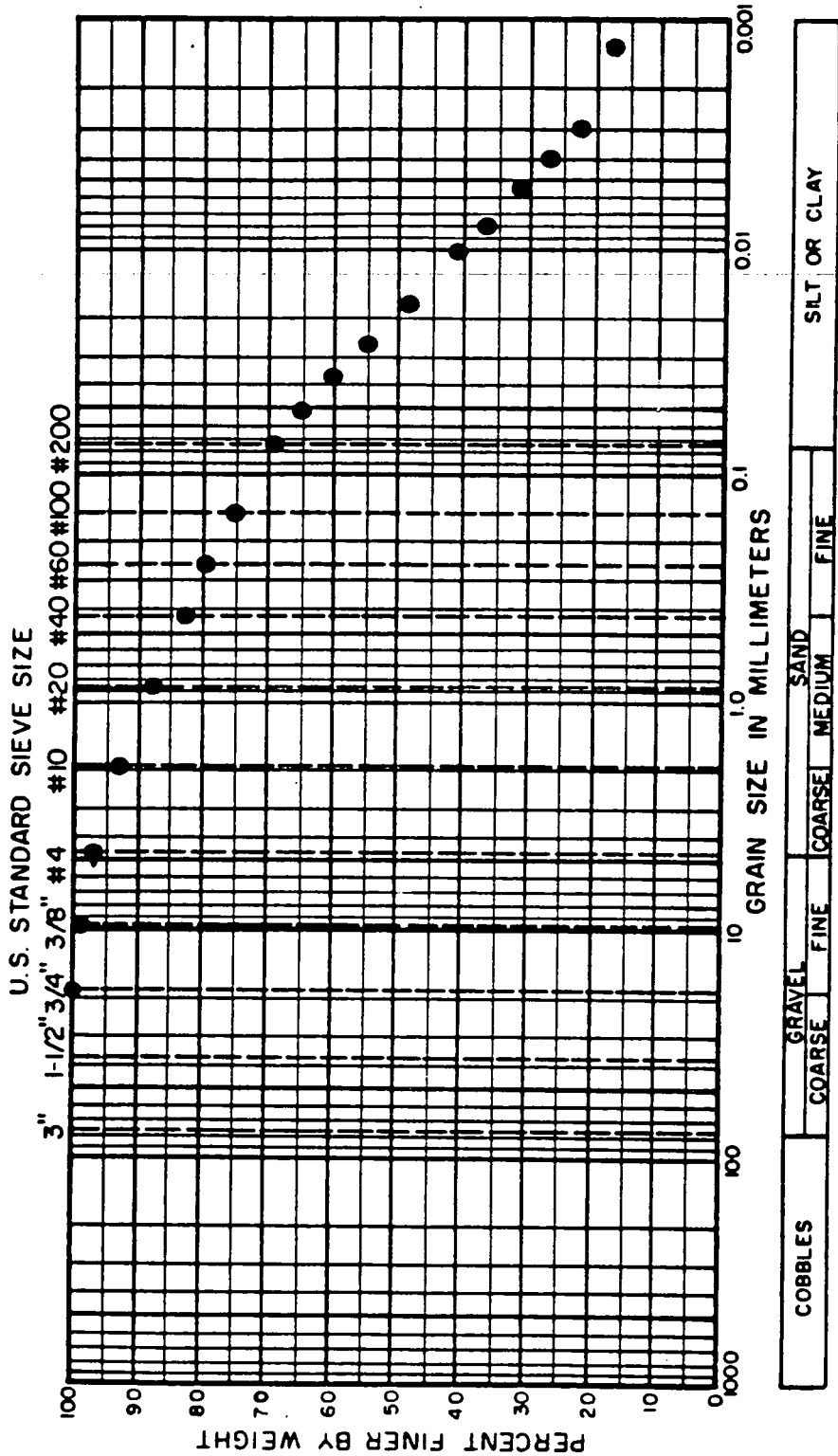
CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13D
BORING NO.	G2-133	SAMPLED	4-21-95 MM
DEPTH	17.5-19.5'	DATE TESTED	6-8-95 REW
SAMPLE NO.	405061	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	24.6
Sp. Gr. of Soil	2.78	Temp. Coef. K	0.01244
Value of "alpha"	0.97	Wt. Dry Sample "W"	59.314
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	4.5		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	45.00	39.50	64.9	64.9	8.91	0.0525
1.0	42.00	36.50	59.9	59.9	9.40	0.0381
2.0	39.00	33.50	55.0	55.0	9.89	0.0277
5.0	35.00	29.50	48.4	48.4	10.55	0.0181
15.0	30.25	24.75	40.6	40.6	11.33	0.0108
30.0	28.00	22.50	36.9	36.9	11.70	0.0078
60.0	24.50	19.00	31.2	31.2	12.27	0.0056
120.0	22.00	16.50	27.1	27.1	12.68	0.0040
250.0	19.00	13.50	22.2	22.2	13.17	0.0029
1215.0	16.00	10.50	17.2	17.2	13.67	0.0013

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



LOCATION	DEPTH	CLASSIFICATION
62-133	17.5-19.5'	

405061

ADVANCED TERRA TESTING

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13D

BORING NO.	G2-133	SAMPLED	4-24-95 MM
DEPTH	25.0-27.0'	DATE TESTED	6-9-95 REW, RW
SAMPLE NO.	405065	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC	Yes	
NATURAL	No	
Wt. Wet Soil & Pan	(g)	61.00
Wt. Dry Soil & Pan	(g)	60.55
Wt. Lost Moisture	(g)	0.45
Wt. of Pan Only	(g)	3.69
Wt. of Dry Soil	(g)	56.86
Moisture Content	%	0.8
Wt. Hydrom. Sample Wet	(g)	55.89
Wt. Hydrom. Sample Dry	(g)	55.45

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	1258.46
Weight of + #10 Before Washing (g)	204.79
Weight of + #10 After Washing (g)	194.26
Weight of - #10 Wet (g)	1053.67
Weight of - #10 Dry (g)	1055.84
Wt. Total Sample Dry (g)	1250.10
Calc. Wt. "W" (g)	65.65
Calc. Mass + #10	10.20

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	51.14	51.14	51.14	4.1	95.9
3/8"	0.00	60.65	60.65	111.79	8.9	91.1
#4	0.00	45.15	45.15	156.94	12.6	87.4
#10	0.00	37.32	37.32	194.26	15.5	84.5
#20	1.58	5.09	3.51	3.51	20.9	79.1
#40	1.57	4.11	2.54	6.05	24.8	75.2
#60	1.58	3.84	2.26	8.31	28.2	71.8
#100	1.61	3.92	2.31	10.62	31.7	68.3
#200	1.57	4.60	3.03	13.65	36.3	63.7

Data entered by: NAA Date: 6-20-95
Data checked by: WEB Date: 6-27-95
FileName: SAH05065

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13D

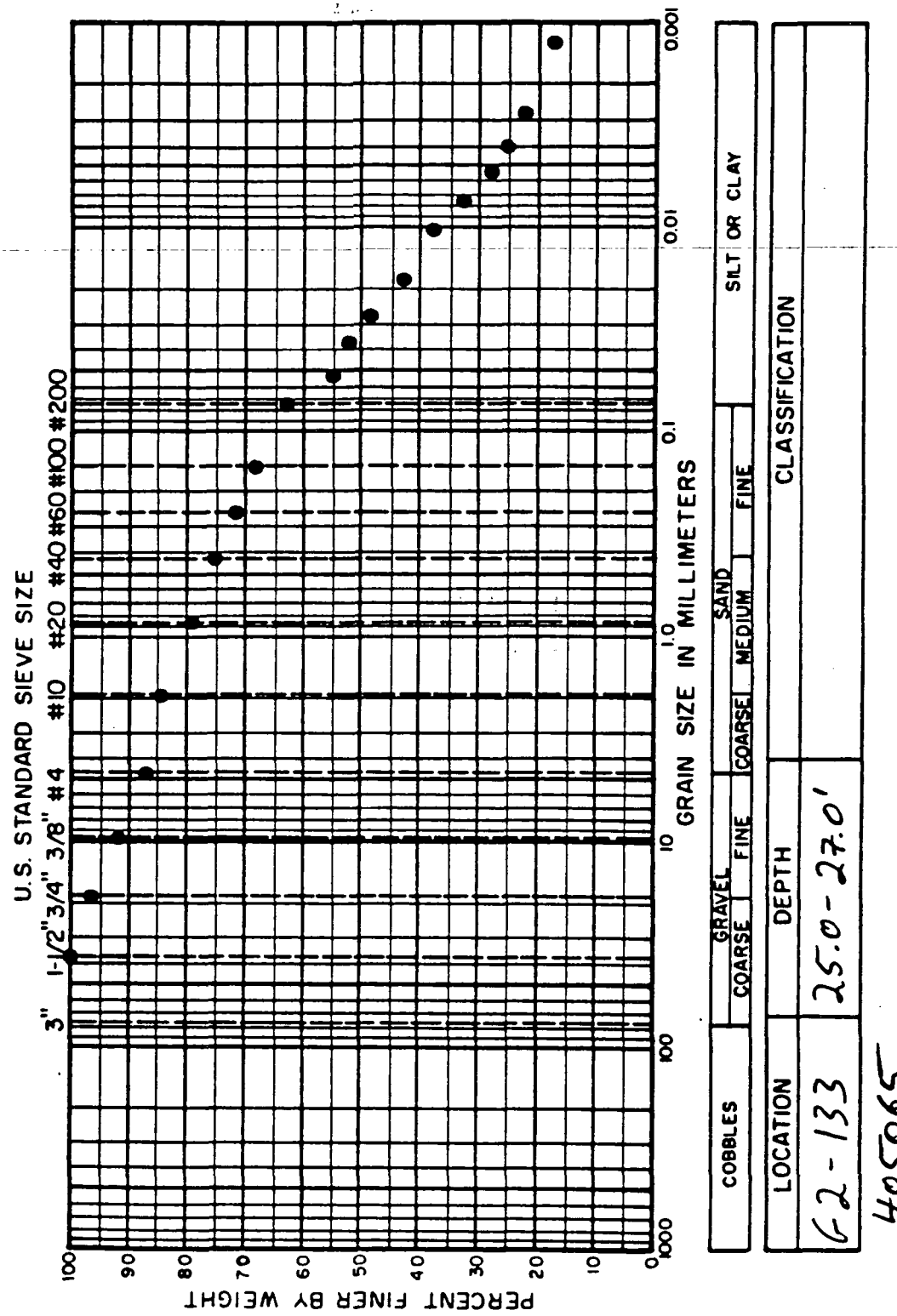
BORING NO.	G2-133	SAMPLED	4-24-95 MM
DEPTH	25.0-27.0'	DATE TESTED	6-9-95 REW, RW
SAMPLE NO.	405065	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	25.5
Sp. Gr. of Soil	2.70	Temp. Coef. K	0.01260
Value of "alpha"	0.99	Wt. Dry Sample "W"	65.649
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	5.0		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	43.00	37.00	55.8	55.8	9.24	0.0542
1.0	41.25	35.25	53.2	53.2	9.53	0.0389
2.0	39.00	33.00	49.8	49.8	9.89	0.0280
5.0	35.00	29.00	43.7	43.7	10.55	0.0183
15.0	31.50	25.50	38.5	38.5	11.12	0.0109
30.0	28.00	22.00	33.2	33.2	11.70	0.0079
60.0	25.00	19.00	28.7	28.7	12.19	0.0057
120.0	23.00	17.00	25.6	25.6	12.52	0.0041
250.0	20.75	14.75	22.2	22.2	12.89	0.0029
1154.0	17.50	11.50	17.3	17.3	13.42	0.0014

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



405065

ADVANCED TERRA TESTING

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13G

BORING NO.	G2-134	SAMPLED	5-3-95 MM
DEPTH	12.0-14.0'	DATE TESTED	6-14-95 REW
SAMPLE NO.	405140	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC Yes

NATURAL No

Wt. Wet Soil & Pan	(g)	87.03
Wt. Dry Soil & Pan	(g)	86.35
Wt. Lost Moisture	(g)	0.68
Wt. of Pan Only	(g)	8.34
Wt. of Dry Soil	(g)	78.01
Moisture Content	%	0.9

Wt. Hydrom. Sample Wet (g)	58.62
Wt. Hydrom. Sample Dry (g)	58.11

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	1054.20
Weight of + #10 Before Washing (g)	135.49
Weight of + #10 After Washing (g)	122.79
Weight of - #10 Wet (g)	918.71
Weight of - #10 Dry (g)	923.36
Wt. Total Sample Dry (g)	1046.15
Calc. Wt. "W" (g)	65.84
Calc. Mass + #10	7.73

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	32.31	32.31	32.31	3.1	96.9
3/8"	0.00	13.51	13.51	45.82	4.4	95.6
#4	0.00	35.74	35.74	81.56	7.8	92.2
#10	0.00	41.23	41.23	122.79	11.7	88.3
#20	1.32	5.61	4.29	4.29	18.3	81.7
#40	1.58	4.61	3.03	7.32	22.9	77.1
#60	1.59	4.55	2.96	10.28	27.4	72.6
#100	1.58	4.78	3.20	13.48	32.2	67.8
#200	1.59	5.64	4.05	17.53	38.4	61.6

Data entered by: NAA Date: 6-16-95
Data checked by: WEB Date: 6-20-95
FileName:SAH05140

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13G

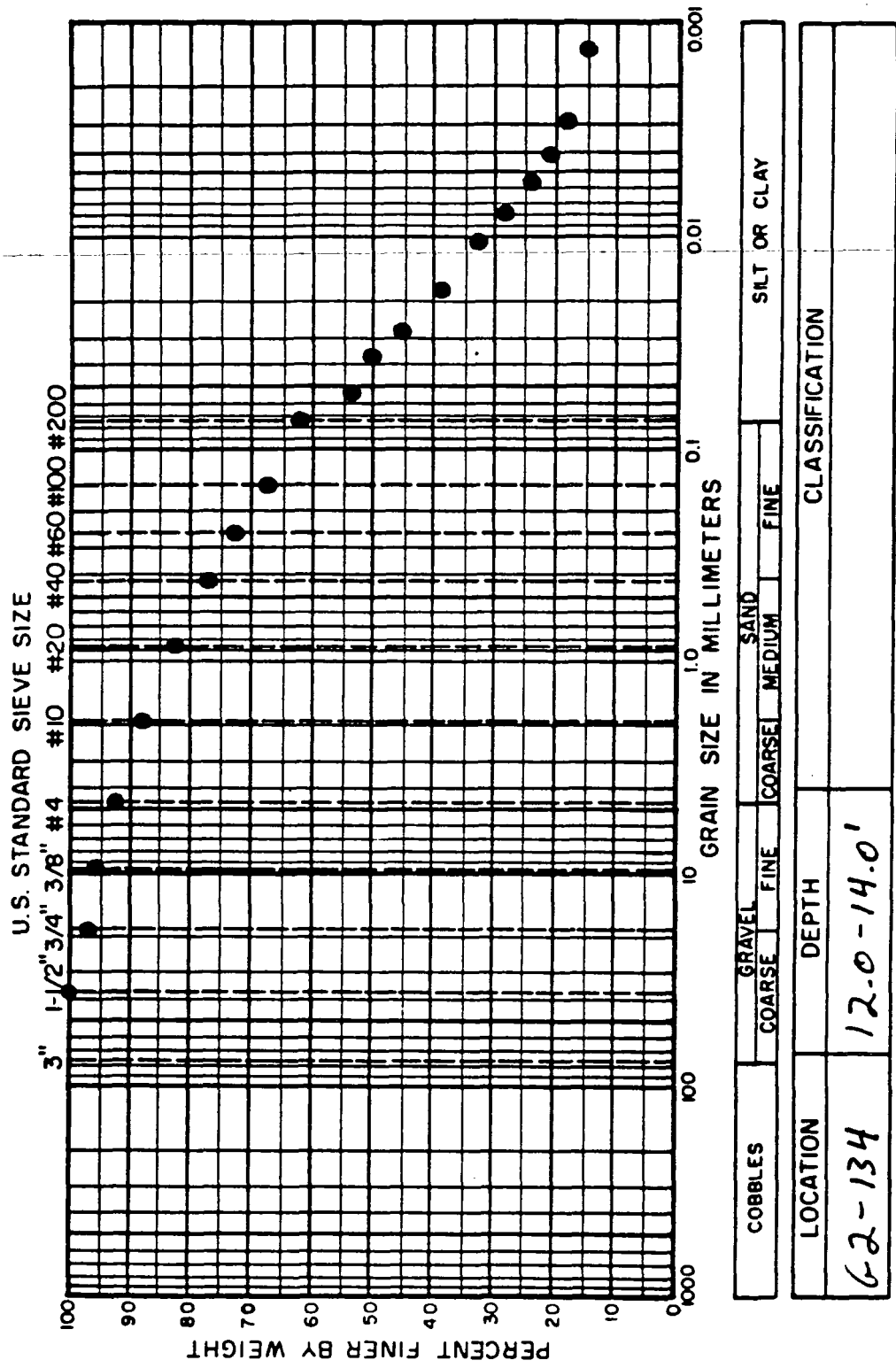
BORING NO.	G2-134	SAMPLED	5-3-95 MM
DEPTH	12.0-14.0'	DATE TESTED	6-14-95 REW
SAMPLE NO.	405140	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	26.2
Sp. Gr. of Soil	2.72	Temp. Coef. K	0.01243
Value of "alpha"	0.99	Wt. Dry Sample "W"	65.841
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	5.0		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	42.00	36.00	53.9	53.9	9.40	0.0539
1.0	39.50	33.50	50.2	50.2	9.81	0.0389
2.0	36.25	30.25	45.3	45.3	10.35	0.0283
5.0	32.00	26.00	38.9	38.9	11.04	0.0185
15.0	28.00	22.00	32.9	32.9	11.70	0.0110
30.0	25.00	19.00	28.5	28.5	12.19	0.0079
60.0	22.00	16.00	24.0	24.0	12.68	0.0057
120.0	20.00	14.00	21.0	21.0	13.01	0.0041
250.0	18.00	12.00	18.0	18.0	13.34	0.0029
1291.0	16.00	10.00	15.0	15.0	13.67	0.0013

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



LOCATION	DEPTH	CLASSIFICATION
62-134	12.0-14.0'	

405140

ADVANCED TERRA TESTING

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13I

BORING NO.	G2-SB-01	SAMPLED	4-24-95 JC, BM
DEPTH	1.5-5.0'	DATE TESTED	8-8-95 DPM
SAMPLE NO.	404608	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC	Yes	
NATURAL	No	
Wt. Wet Soil & Pan	(g)	74.04
Wt. Dry Soil & Pan	(g)	70.93
Wt. Lost Moisture	(g)	3.11
Wt. of Pan Only	(g)	3.64
Wt. of Dry Soil	(g)	67.29
Moisture Content	%	4.6
Wt. Hydrom. Sample Wet	(g)	58.62
Wt. Hydrom. Sample Dry	(g)	56.03

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	1351.02
Weight of + #10 Before Washing (g)	22.09
Weight of + #10 After Washing (g)	17.85
Weight of - #10 Wet (g)	1328.93
Weight of - #10 Dry (g)	1274.28
Wt. Total Sample Dry (g)	1292.13
Calc. Wt. "W" (g)	56.82
Calc. Mass + #10	0.78

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	0.00	0.00	0.00	0.0	100.0
3/8"	0.00	7.64	7.64	7.64	0.6	99.4
#4	0.00	5.70	5.70	13.34	1.0	99.0
#10	0.00	4.51	4.51	17.85	1.4	98.6
#20	1.57	2.07	0.50	0.50	2.3	97.7
#40	1.60	2.19	0.59	1.09	3.3	96.7
#60	1.58	2.24	0.66	1.75	4.5	95.5
#100	1.58	2.43	0.85	2.60	6.0	94.0
#200	1.59	2.68	1.09	3.69	7.9	92.1

Data entered by: NAA Date: 8-9-95
Data checked by: SR Date: 8-9-95
FileName: SAH0608

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

CLIENT SAIC/Parsons PO 140 JOB NO. 2059-13I

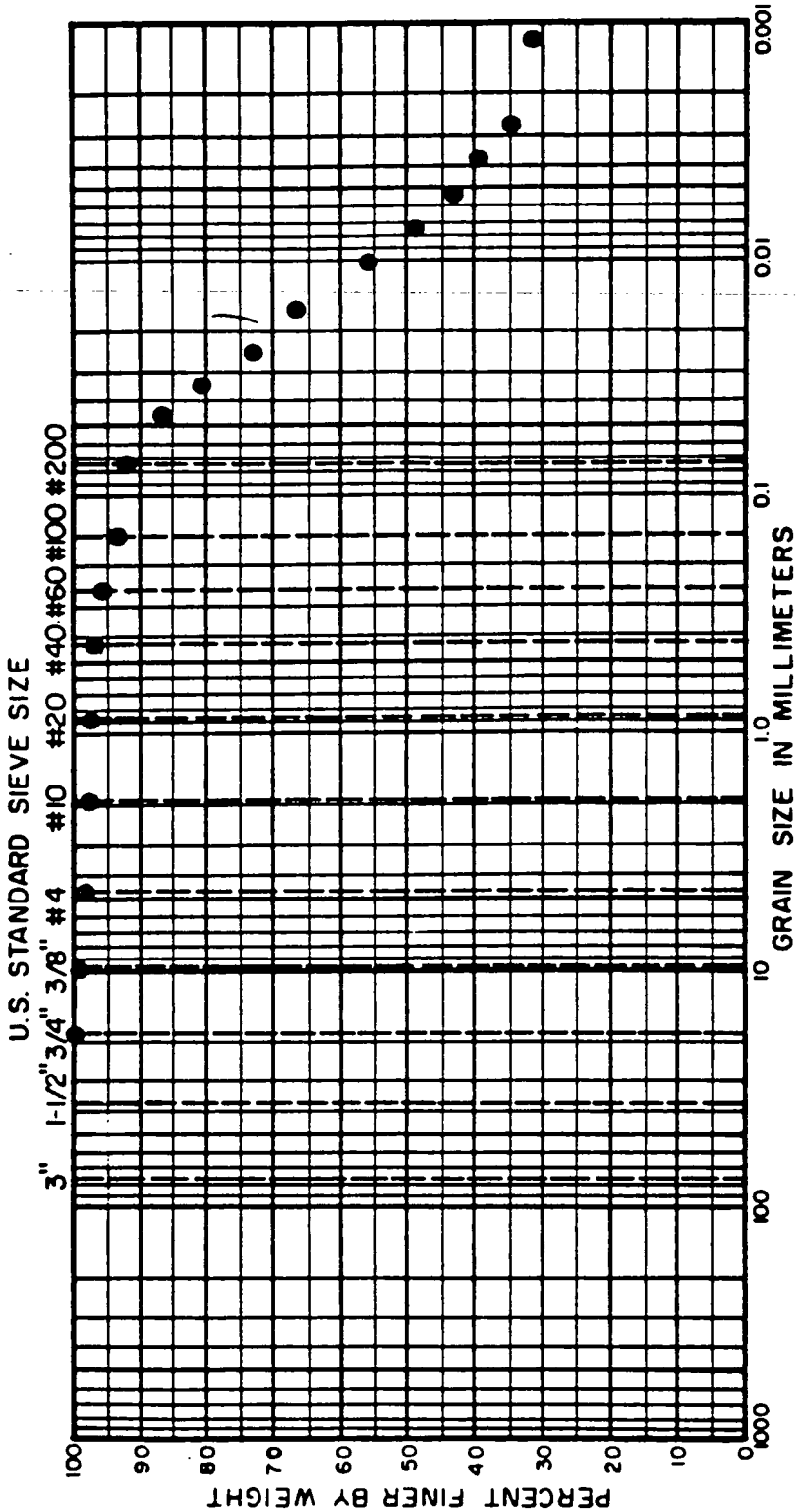
BORING NO.	G2-SB-01	SAMPLED	4-24-95 JC, BM
DEPTH	1.5-5.0'	DATE TESTED	8-8-95 DPM
SAMPLE NO.	404608	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	26.8
Sp. Gr. of Soil	2.73	Temp. Coef. K	0.01214
Value of "alpha"	0.98	Wt. Dry Sample "W"	56.815
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	4.0		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	55.00	50.00	86.6	86.6	7.27	0.0463
1.0	51.50	46.50	80.5	80.5	7.84	0.0340
2.0	47.50	42.50	73.6	73.6	8.50	0.0250
5.0	43.50	38.50	66.7	66.7	9.16	0.0164
15.0	37.00	32.00	55.4	55.4	10.22	0.0100
30.0	33.25	28.25	48.9	48.9	10.84	0.0073
60.0	30.00	25.00	43.3	43.3	11.37	0.0053
120.0	27.75	22.75	39.4	39.4	11.74	0.0038
250.0	25.25	20.25	35.1	35.1	12.15	0.0027
1395.0	23.00	18.00	31.2	31.2	12.52	0.0012

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



LOCATION	DEPTH	CLASSIFICATION
G2-SB-1	1.5-5.0'	

404608

ADVANCED TERRA TESTING

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13I

BORING NO.	G2-SB-2	SAMPLED	4-24-95 JC, BN
DEPTH	1.5-5.0'	DATE TESTED	5-19-95 REW
SAMPLE NO.	404603	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC Yes

NATURAL No

Wt. Wet Soil & Pan	(g)	57.86
Wt. Dry Soil & Pan	(g)	56.45
Wt. Lost Moisture	(g)	1.41
Wt. of Pan Only	(g)	3.70
Wt. of Dry Soil	(g)	52.75
Moisture Content	%	2.7

Wt. Hydrom. Sample Wet (g)	57.99
Wt. Hydrom. Sample Dry (g)	56.48

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	807.55
Weight of + #10 Before Washing (g)	4.01
Weight of + #10 After Washing (g)	2.97
Weight of - #10 Wet (g)	803.54
Weight of - #10 Dry (g)	783.63
Wt. Total Sample Dry (g)	786.60
Calc. Wt. "W" (g)	56.70
Calc. Mass + #10	0.21

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	0.00	0.00	0.00	0.0	100.0
3/8"	0.00	1.02	1.02	1.02	0.1	99.9
#4	0.00	0.00	0.00	1.02	0.1	99.9
#10	0.00	1.95	1.95	2.97	0.4	99.6
#20	1.60	2.34	0.74	0.74	1.7	98.3
#40	1.58	2.41	0.83	1.57	3.1	96.9
#60	1.58	2.33	0.75	2.32	4.5	95.5
#100	1.58	2.45	0.87	3.19	6.0	94.0
#200	1.57	2.61	1.04	4.23	7.8	92.2

Data entered by: NAA Date: 6-1-95
Data checked by: DBR Date: 6·5·95
FileName:SAH0603

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

CLIENT SAIC/Parsons PO 140 JOB NO. 2059-13I

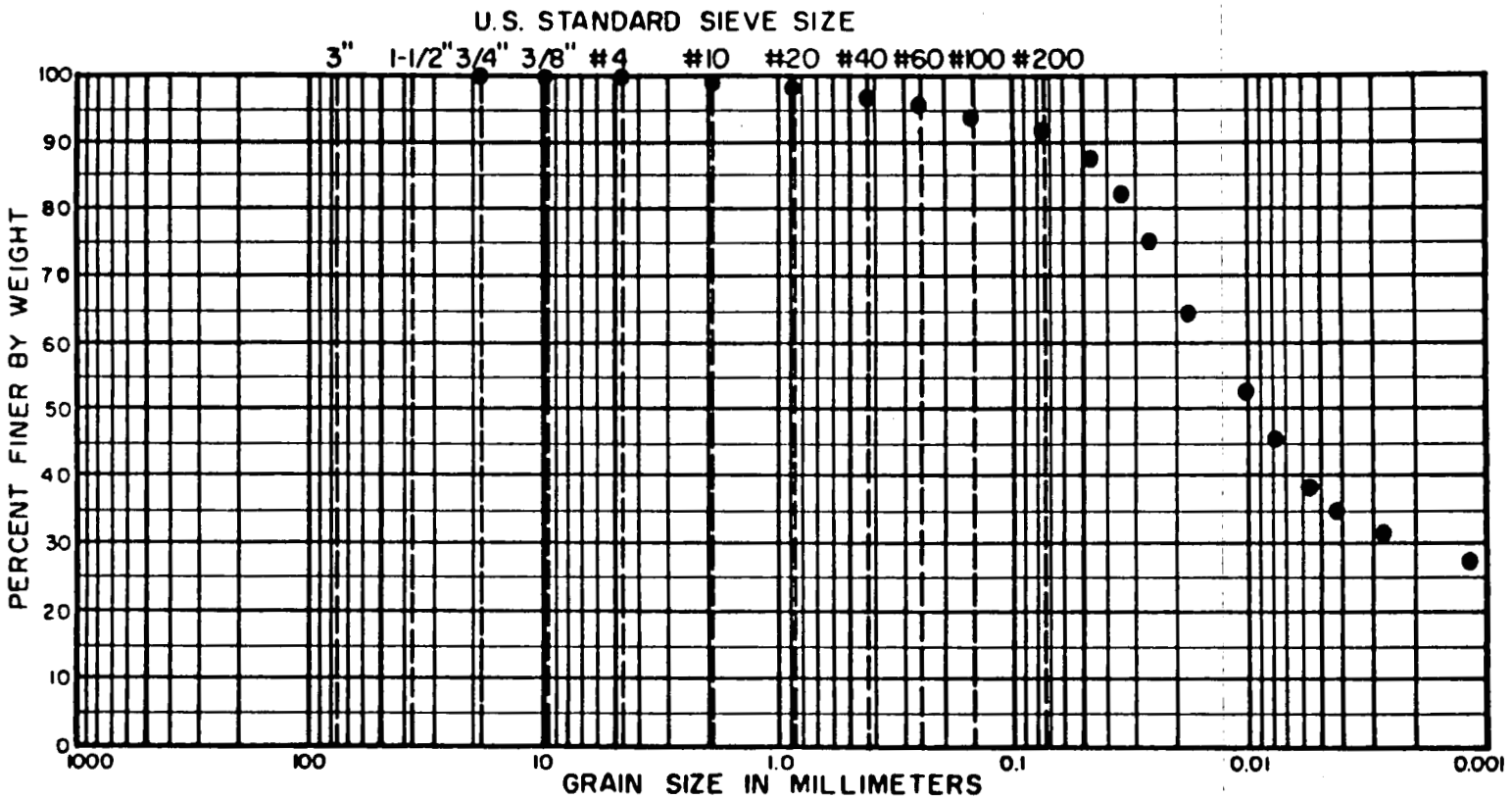
BORING NO.	G2-SB-2	SAMPLED	4-24-95 JC, BN
DEPTH	1.5-5.0'	DATE TESTED	5-19-95 REW
SAMPLE NO.	404603	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	24.9
Sp. Gr. of Soil	2.69	Temp. Coef. K	0.01273
Value of "alpha"	0.99	Wt. Dry Sample "W"	56.695
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	4.0		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	55.00	50.00	87.5	87.5	7.27	0.0485
1.0	52.00	47.00	82.2	82.2	7.76	0.0355
2.0	48.00	43.00	75.2	75.2	8.42	0.0261
5.0	42.00	37.00	64.7	64.7	9.40	0.0175
15.0	35.00	30.00	52.5	52.5	10.55	0.0107
30.0	31.00	26.00	45.5	45.5	11.21	0.0078
60.0	27.00	22.00	38.5	38.5	11.86	0.0057
120.0	25.00	20.00	35.0	35.0	12.19	0.0041
250.0	23.00	18.00	31.5	31.5	12.52	0.0028
1490.0	20.50	15.50	27.1	27.1	12.93	0.0012

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

LOCATION	DEPTH	CLASSIFICATION
62-SB-2	1.5-5.0'	

404603

ADVANCED TERRA TESTING

485

474

000549

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13I

BORING NO.	G2-SB-3	SAMPLED	4-21-95 JC, BN
DEPTH	1.5-5.0'	DATE TESTED	5-23-95 REW
SAMPLE NO.	404591	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC	Yes	
NATURAL	No	
Wt. Wet Soil & Pan	(g)	80.32
Wt. Dry Soil & Pan	(g)	77.52
Wt. Lost Moisture	(g)	2.80
Wt. of Pan Only	(g)	3.72
Wt. of Dry Soil	(g)	73.80
Moisture Content	%	3.8
Wt. Hydrom. Sample Wet	(g)	55.64
Wt. Hydrom. Sample Dry	(g)	53.60

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	1040.64
Weight of + #10 Before Washing (g)	3.37
Weight of + #10 After Washing (g)	2.55
Weight of - #10 Wet (g)	1037.27
Weight of - #10 Dry (g)	1000.14
Wt. Total Sample Dry (g)	1002.69
Calc. Wt. "W" (g)	53.74
Calc. Mass + #10	0.14

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	0.00	0.00	0.00	0.0	100.0
3/8"	0.00	0.00	0.00	0.00	0.0	100.0
#4	0.00	0.26	0.26	0.26	0.0	100.0
#10	0.00	2.29	2.29	2.55	0.3	99.7
#20	1.57	1.81	0.24	0.24	0.7	99.3
#40	1.57	2.00	0.43	0.67	1.5	98.5
#60	1.57	2.02	0.45	1.12	2.3	97.7
#100	1.57	2.09	0.52	1.64	3.3	96.7
#200	1.57	2.18	0.61	2.25	4.4	95.6

Data entered by: NAA Date: 5-26-95
Data checked by: [illegible] Date: 5-26-95
FileName:K:SAH0591

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

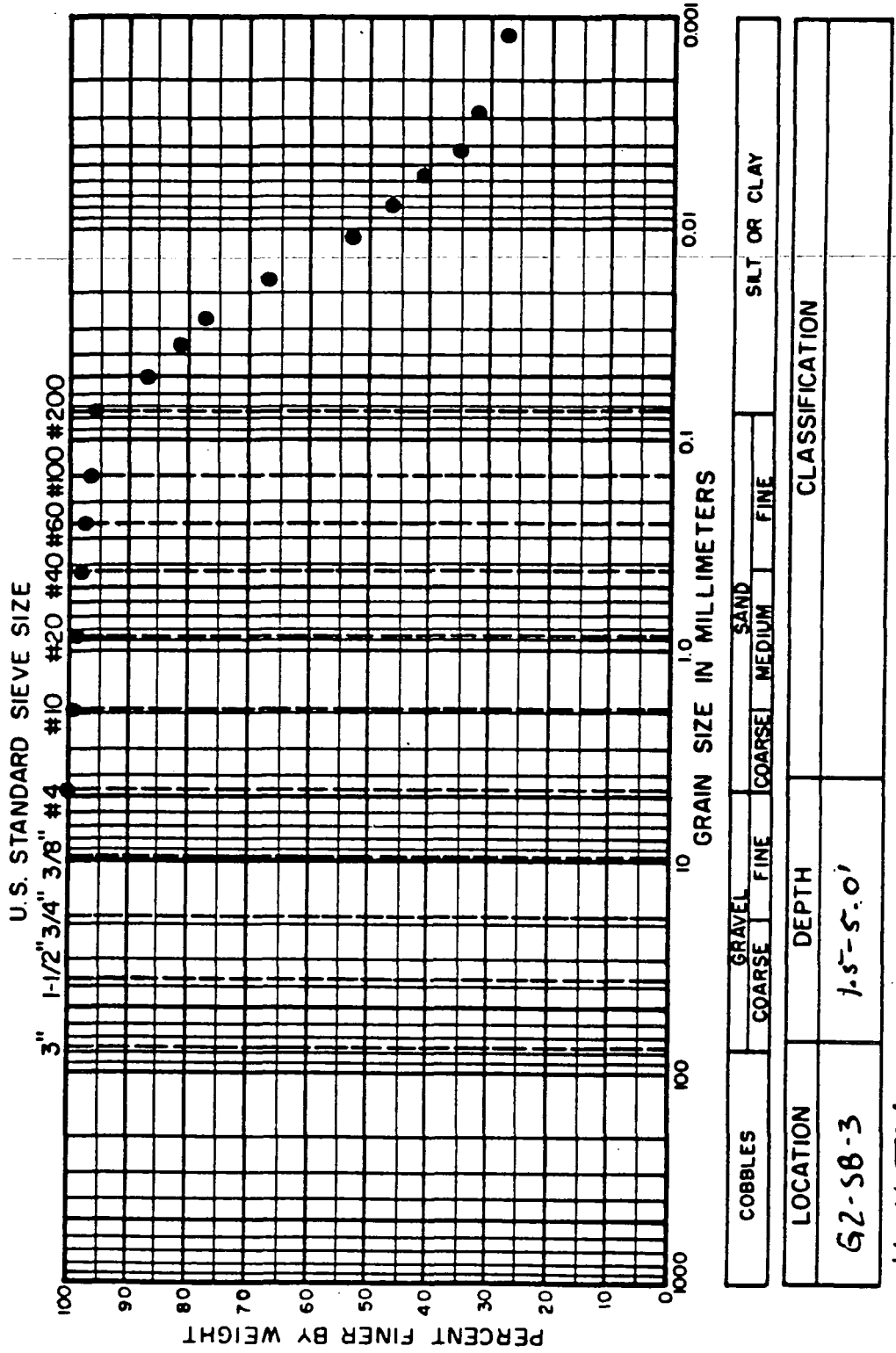
CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13I
BORING NO.	G2-SB-3	SAMPLED	4-21-95 JC, BN
DEPTH	1.5-5.0'	DATE TESTED	5-23-95 REW
SAMPLE NO.	404591	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	24.5
Sp. Gr. of Soil	2.67	Temp. Coef. K	0.01286
Value of "alpha"	1.00	Wt. Dry Sample "W"	53.739
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	4.0		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	52.00	47.00	87.1	87.1	7.76	0.0507
1.0	49.00	44.00	81.5	81.5	8.25	0.0369
2.0	47.00	42.00	77.8	77.8	8.58	0.0266
5.0	41.00	36.00	66.7	66.7	9.57	0.0178
15.0	34.00	29.00	53.7	53.7	10.71	0.0109
30.0	30.00	25.00	46.3	46.3	11.37	0.0079
60.0	27.00	22.00	40.8	40.8	11.86	0.0057
120.0	24.00	19.00	35.2	35.2	12.35	0.0041
250.0	22.50	17.50	32.4	32.4	12.60	0.0029
1304.0	20.00	15.00	27.8	27.8	13.01	0.0013

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



404591

ADVANCED TERRA TESTING

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13I

BORING NO.	G2-SB-4	SAMPLED	4-25-95 JC, BN
DEPTH	1.5-5.0'	DATE TESTED	5-18-95 REW
SAMPLE NO.	404615	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC	Yes	
NATURAL	No	
Wt. Wet Soil & Pan	(g)	55.31
Wt. Dry Soil & Pan	(g)	53.51
Wt. Lost Moisture	(g)	1.80
Wt. of Pan Only	(g)	3.67
Wt. of Dry Soil	(g)	49.84
Moisture Content	%	3.6
Wt. Hydrom. Sample Wet	(g)	56.09
Wt. Hydrom. Sample Dry	(g)	54.13

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	312.96
Weight of + #10 Before Washing (g)	20.42
Weight of + #10 After Washing (g)	19.30
Weight of - #10 Wet (g)	292.54
Weight of - #10 Dry (g)	283.42
Wt. Total Sample Dry (g)	302.72
Calc. Wt. "W" (g)	57.82
Calc. Mass + #10	3.69

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	13.27	13.27	13.27	4.4	95.6
3/8"	0.00	1.47	1.47	14.74	4.9	95.1
#4	0.00	2.02	2.02	16.76	5.5	94.5
#10	0.00	2.54	2.54	19.30	6.4	93.6
#20	1.56	2.57	1.01	1.01	8.1	91.9
#40	1.56	2.59	1.03	2.04	9.9	90.1
#60	1.58	2.58	1.00	3.04	11.6	88.4
#100	1.33	2.41	1.08	4.12	13.5	86.5
#200	1.57	2.90	1.33	5.45	15.8	84.2

Data entered by: NAA Date: 5-26-95
Data checked by: SR Date: 5-26-95
FileName:K:SAH0615

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

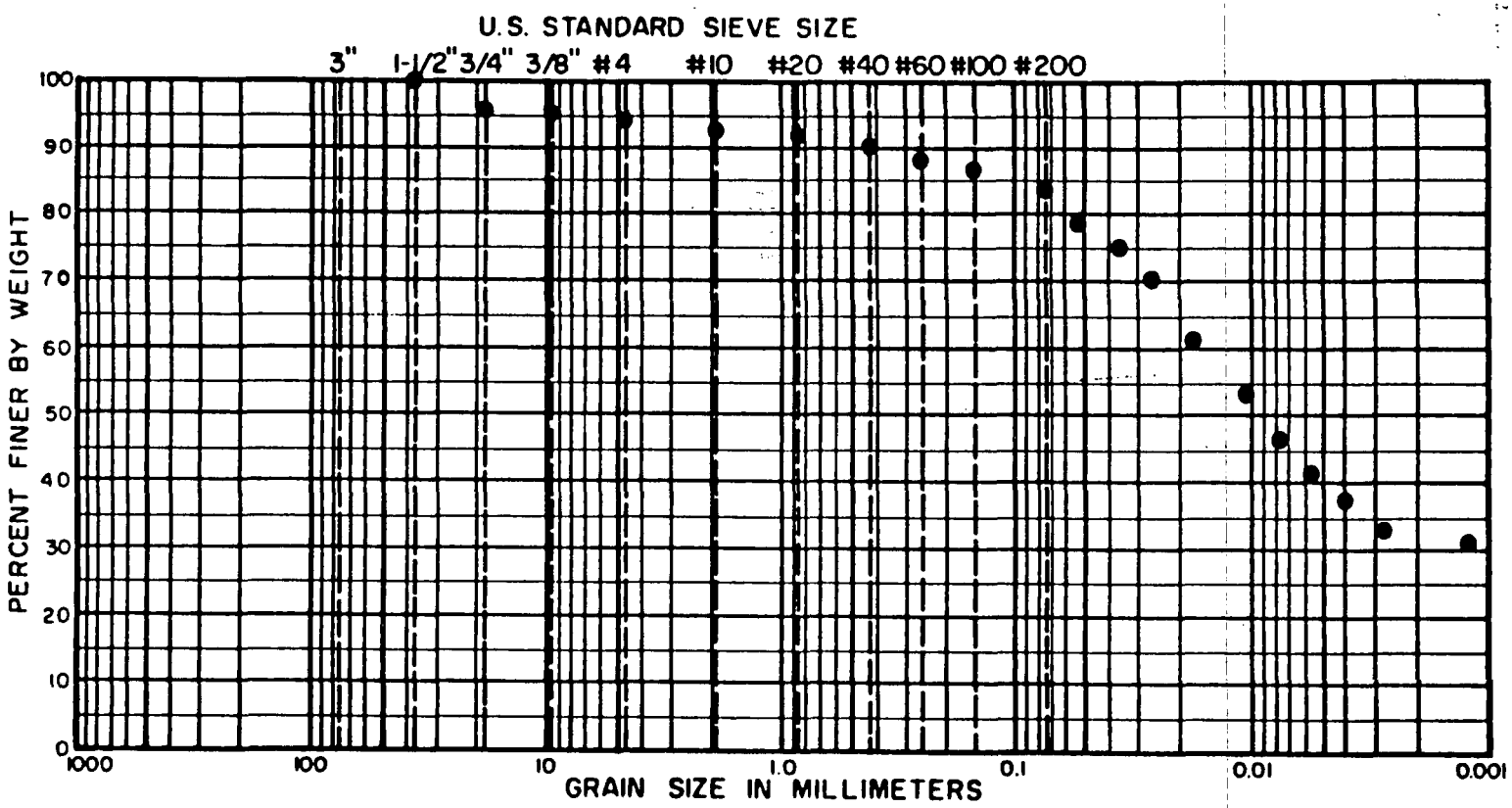
CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13I
BORING NO.	G2-SB-4	SAMPLED	4-25-95 JC, BN
DEPTH	1.5-5.0'	DATE TESTED	5-18-95 REW
SAMPLE NO.	404615	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	24.6
Sp. Gr. of Soil	2.70	Temp. Coef. K	0.01277
Value of "alpha"	0.99	Wt. Dry Sample "W"	57.821
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	4.0		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	51.00	46.00	78.8	78.8	7.93	0.0508
1.0	49.00	44.00	75.3	75.3	8.25	0.0367
2.0	46.00	41.00	70.2	70.2	8.75	0.0267
5.0	41.00	36.00	61.6	61.6	9.57	0.0177
15.0	36.00	31.00	53.1	53.1	10.39	0.0106
30.0	32.00	27.00	46.2	46.2	11.04	0.0077
60.0	29.00	24.00	41.1	41.1	11.53	0.0056
120.0	27.00	22.00	37.7	37.7	11.86	0.0040
250.0	25.00	20.00	34.2	34.2	12.19	0.0028
1345.0	23.00	18.00	30.8	30.8	12.52	0.0012

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

LOCATION	DEPTH	CLASSIFICATION
G2-SB-4	1.5-5.0'	

404615

ADVANCED TERRA TESTING

491

000555

424

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13I

BORING NO.	G2-SB-5	SAMPLED	4-26-95 JC, BN
DEPTH	1.5-5.0'	DATE TESTED	5-19-95 REW
SAMPLE NO.	404627	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC Yes

NATURAL No

Wt. Wet Soil & Pan	(g)	72.71
Wt. Dry Soil & Pan	(g)	70.32
Wt. Lost Moisture	(g)	2.39
Wt. of Pan Only	(g)	3.73
Wt. of Dry Soil	(g)	66.59
Moisture Content	%	3.6

Wt. Hydrom. Sample Wet (g)	55.80
Wt. Hydrom. Sample Dry (g)	53.87

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	664.84
Weight of + #10 Before Washing (g)	12.03
Weight of + #10 After Washing (g)	10.90
Weight of - #10 Wet (g)	652.81
Weight of - #10 Dry (g)	631.28
Wt. Total Sample Dry (g)	642.18
Calc. Wt. "W" (g)	54.80
Calc. Mass + #10	0.93

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	0.00	0.00	0.00	0.0	100.0
3/8"	0.00	2.81	2.81	2.81	0.4	99.6
#4	0.00	5.46	5.46	8.27	1.3	98.7
#10	0.00	2.63	2.63	10.90	1.7	98.3
#20	1.58	2.58	1.00	1.00	3.5	96.5
#40	1.57	2.39	0.82	1.82	5.0	95.0
#60	1.47	2.25	0.78	2.60	6.4	93.6
#100	1.58	2.50	0.92	3.52	8.1	91.9
#200	1.59	2.67	1.08	4.60	10.1	89.9

Data entered by: NAA Date: 5-26-95
Data checked by: CJ Date: 8-12-95
FileName:K:SAH0627

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

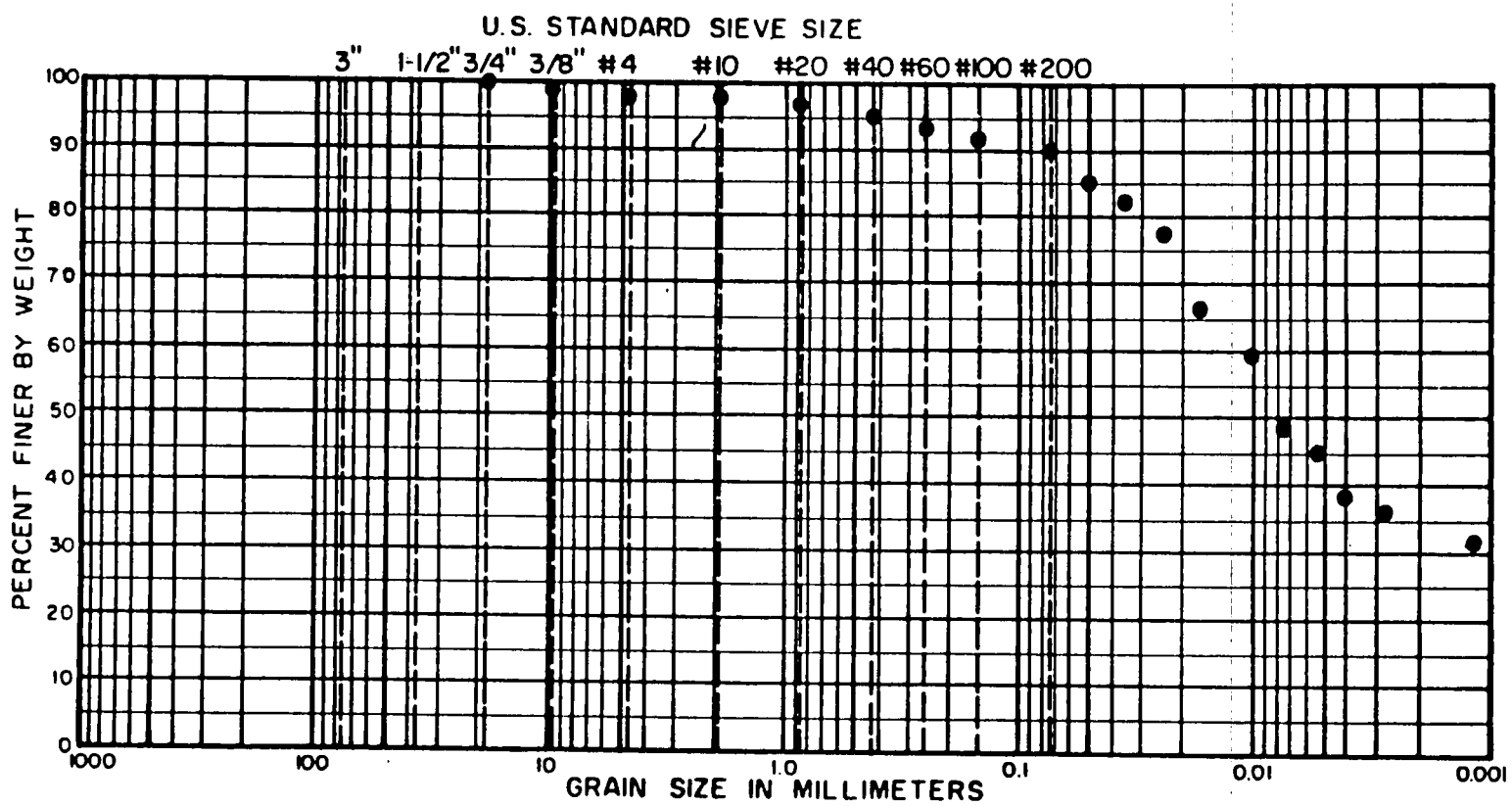
CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13I
BORING NO.	G2-SB-5	SAMPLED	4-26-95 JC, BN
DEPTH	1.5-5.0'	DATE TESTED	5-19-95 REW
SAMPLE NO.	404627	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	24.8
Sp. Gr. of Soil	2.71	Temp. Coef. K	0.01252
Value of "alpha"	0.99	Wt. Dry Sample "W"	54.800
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	4.0		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	52.00	47.00	84.7	84.7	7.76	0.0493
1.0	50.50	45.50	82.0	82.0	8.01	0.0354
2.0	48.00	43.00	77.5	77.5	8.42	0.0257
5.0	42.00	37.00	66.7	66.7	9.40	0.0172
15.0	38.00	33.00	59.5	59.5	10.06	0.0103
30.0	32.00	27.00	48.7	48.7	11.04	0.0076
60.0	30.00	25.00	45.1	45.1	11.37	0.0055
120.0	26.50	21.50	38.8	38.8	11.94	0.0040
250.0	25.00	20.00	36.1	36.1	12.19	0.0028
1321.0	22.50	17.50	31.6	31.6	12.60	0.0012

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

LOCATION	DEPTH	CLASSIFICATION
62-SB-5	1.5-5.0'	

404627

ADVANCED TERRA TESTING

494

000558

424

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13I
BORING NO.	G2-SB-6	SAMPLED	4-21-95 JC, BN
DEPTH	1.5-5.0'	DATE TESTED	5-23-95 REW
SAMPLE NO.	404595	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC	Yes	
NATURAL	No	
Wt. Wet Soil & Pan	(g)	70.33
Wt. Dry Soil & Pan	(g)	69.03
Wt. Lost Moisture	(g)	1.30
Wt. of Pan Only	(g)	3.70
Wt. of Dry Soil	(g)	65.33
Moisture Content	%	2.0
Wt. Hydrom. Sample Wet	(g)	57.36
Wt. Hydrom. Sample Dry	(g)	56.24

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	57.36
Weight of + #10 Before Washing (g)	
Weight of + #10 After Washing (g)	
Weight of - #10 Wet (g)	57.36
Weight of - #10 Dry (g)	56.24
Wt. Total Sample Dry (g)	56.24
Calc. Wt. "W" (g)	56.24
Calc. Mass + #10	0.00

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	0.00	0.00	0.00	0.0	100.0
3/8"	0.00	0.00	0.00	0.00	0.0	100.0
#4	0.00	0.00	0.00	0.00	0.0	100.0
#10	0.00	0.00	0.00	0.00	0.0	100.0
#20	1.58	1.95	0.37	0.37	0.7	99.3
#40	1.58	2.27	0.69	1.06	1.9	98.1
#60	1.58	2.25	0.67	1.73	3.1	96.9
#100	1.56	2.46	0.90	2.63	4.7	95.3
#200	1.57	2.77	1.20	3.83	6.8	93.2

Data entered by: NAA Date: 5-26-95
Data checked by: MN Date: 5-26-95
FileName:K:SAH0595

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

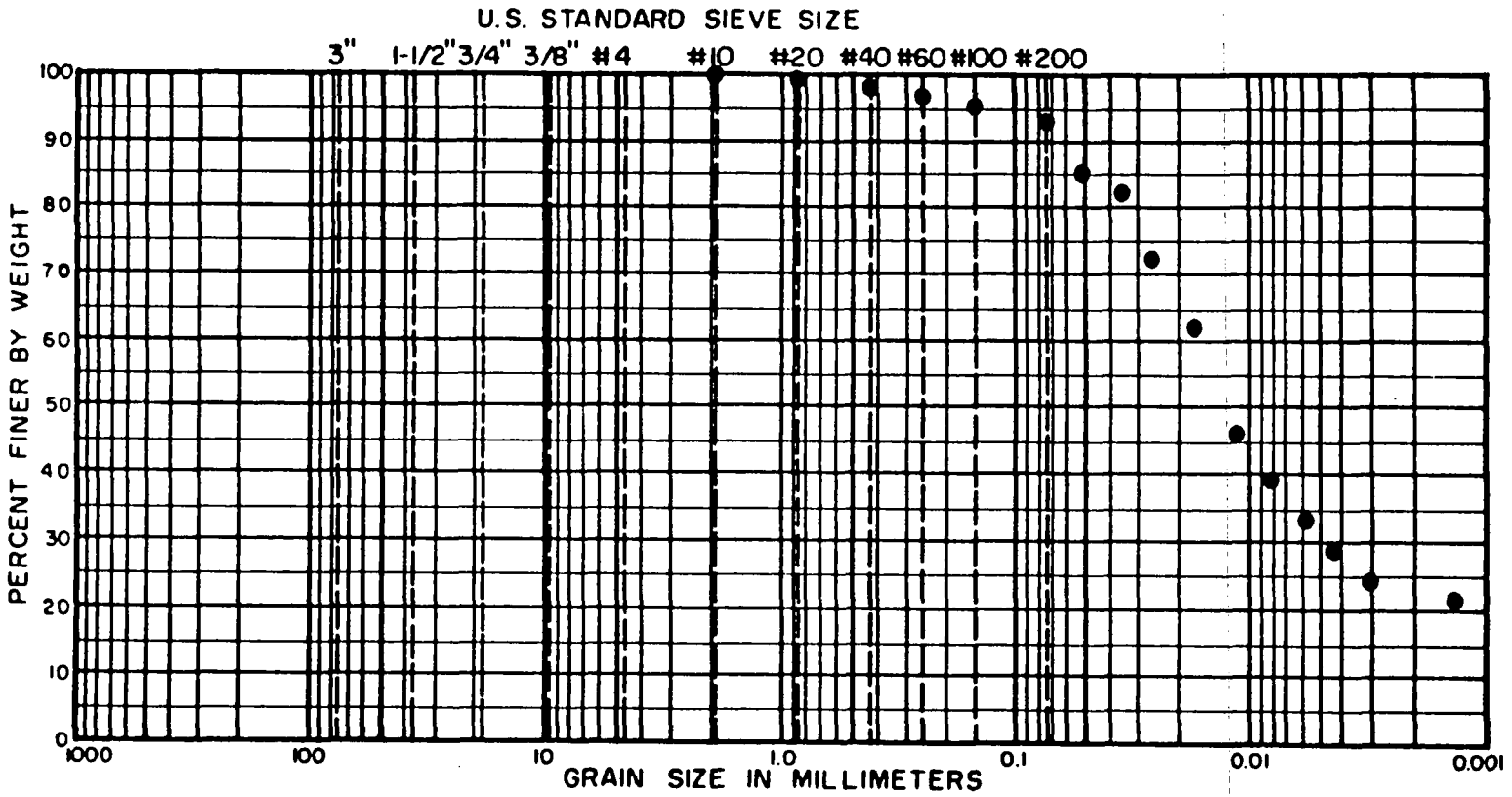
CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13I
BORING NO.	G2-SB-6	SAMPLED	4-21-95 JC, BN
DEPTH	1.5-5.0'	DATE TESTED	5-23-95 REW
SAMPLE NO.	404595	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	24.7
Sp. Gr. of Soil	2.66	Temp. Coef. K	0.01287
Value of "alpha"	1.00	Wt. Dry Sample "W"	56.237
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	4.0		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	53.00	48.00	85.2	85.2	7.60	0.0502
1.0	51.50	46.50	82.5	82.5	7.84	0.0360
2.0	46.00	41.00	72.8	72.8	8.75	0.0269
5.0	40.00	35.00	62.1	62.1	9.73	0.0179
15.0	31.00	26.00	46.1	46.1	11.21	0.0111
30.0	27.00	22.00	39.0	39.0	11.86	0.0081
60.0	24.00	19.00	33.7	33.7	12.35	0.0058
120.0	21.25	16.25	28.8	28.8	12.81	0.0042
250.0	19.00	14.00	24.8	24.8	13.17	0.0030
1286.0	17.00	12.00	21.3	21.3	13.50	0.0013

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

LOCATION	DEPTH	CLASSIFICATION
G2-SB-6	1.5-5.0'	

404595

ADVANCED TERRA TESTING

497

474

000561

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13I

BORING NO.	G2-SB-7	SAMPLED	4-26-95 JC, BN
DEPTH	1.5-5.0'	DATE TESTED	5-26-95 REW
SAMPLE NO.	404632	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC	Yes	
NATURAL	No	
Wt. Wet Soil & Pan	(g)	52.11
Wt. Dry Soil & Pan	(g)	50.74
Wt. Lost Moisture	(g)	1.37
Wt. of Pan Only	(g)	3.71
Wt. of Dry Soil	(g)	47.03
Moisture Content	%	2.9
Wt. Hydrom. Sample Wet	(g)	58.87
Wt. Hydrom. Sample Dry	(g)	57.21

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	388.24
Weight of + #10 Before Washing (g)	17.29
Weight of + #10 After Washing (g)	11.58
Weight of - #10 Wet (g)	370.95
Weight of - #10 Dry (g)	366.00
Wt. Total Sample Dry (g)	377.58
Calc. Wt. "W" (g)	59.02
Calc. Mass + #10	1.81

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	0.00	0.00	0.00	0.0	100.0
3/8"	0.00	5.78	5.78	5.78	1.5	98.5
#4	0.00	2.20	2.20	7.98	2.1	97.9
#10	0.00	3.60	3.60	11.58	3.1	96.9
#20	1.58	2.42	0.84	0.84	4.5	95.5
#40	1.58	2.39	0.81	1.65	5.9	94.1
#60	1.58	2.52	0.94	2.59	7.5	92.5
#100	1.57	2.75	1.18	3.77	9.5	90.5
#200	1.59	3.07	1.48	5.25	12.0	88.0

Data entered by: NAA Date: 5-30-95
Data checked by: SR Date: 5-30-95
FileName: SAH0632

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

CLIENT SAIC/Parsons PO 140 JOB NO. 2059-13I

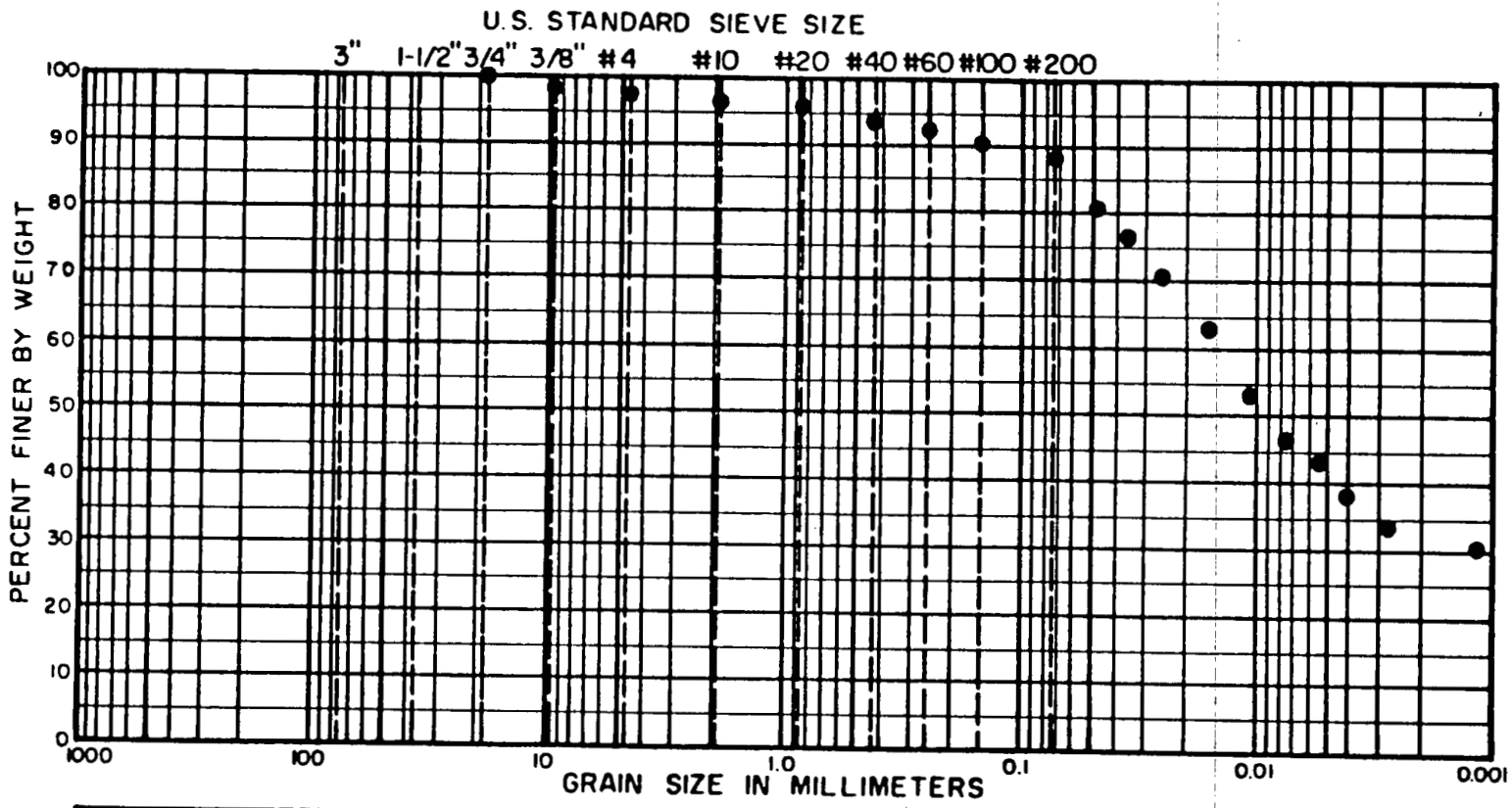
BORING NO.	G2-SB-7	SAMPLED	4-26-95 JC, BN
DEPTH	1.5-5.0'	DATE TESTED	5-26-95 REW
SAMPLE NO.	404632	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	24.7
Sp. Gr. of Soil	2.72	Temp. Coef. K	0.01267
Value of "alpha"	0.99	Wt. Dry Sample "W"	59.017
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	4.0		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Hydrometer Reading Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	53.00	48.00	80.2	80.2	7.60	0.0494
1.0	51.00	46.00	76.9	76.9	7.93	0.0357
2.0	47.00	42.00	70.2	70.2	8.58	0.0262
5.0	43.00	38.00	63.5	63.5	9.24	0.0172
15.0	37.00	32.00	53.5	53.5	10.22	0.0105
30.0	33.00	28.00	46.8	46.8	10.88	0.0076
60.0	31.00	26.00	43.4	43.4	11.21	0.0055
120.0	28.00	23.00	38.4	38.4	11.70	0.0040
250.0	25.25	20.25	33.8	33.8	12.15	0.0028
1525.0	23.00	18.00	30.1	30.1	12.52	0.0011

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

LOCATION	DEPTH	CLASSIFICATION
52-SB-7	1.5-5.0'	

404632

500

ADVANCED TERRA TESTING

000564

474

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13I

BORING NO.	G2-SB-8	SAMPLED	4-25-95 SC, BN
DEPTH	1.5-5.0'	DATE TESTED	5-26-95 REW
SAMPLE NO.	404621	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC	Yes	
NATURAL	No	
Wt. Wet Soil & Pan	(g)	119.40
Wt. Dry Soil & Pan	(g)	116.34
Wt. Lost Moisture	(g)	3.06
Wt. of Pan Only	(g)	3.72
Wt. of Dry Soil	(g)	112.62
Moisture Content	%	2.7
Wt. Hydrom. Sample Wet	(g)	57.04
Wt. Hydrom. Sample Dry	(g)	55.53

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	749.04
Weight of + #10 Before Washing (g)	9.13
Weight of + #10 After Washing (g)	7.70
Weight of - #10 Wet (g)	739.91
Weight of - #10 Dry (g)	721.73
Wt. Total Sample Dry (g)	729.43
Calc. Wt. "W" (g)	56.12
Calc. Mass + #10	0.59

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	0.00	0.00	0.00	0.0	100.0
3/8"	0.00	0.00	0.00	0.00	0.0	100.0
#4	0.00	2.09	2.09	2.09	0.3	99.7
#10	0.00	5.61	5.61	7.70	1.1	98.9
#20	1.59	2.35	0.76	0.76	2.4	97.6
#40	1.58	2.39	0.81	1.57	3.9	96.1
#60	1.47	2.35	0.88	2.45	5.4	94.6
#100	1.57	2.60	1.03	3.48	7.3	92.7
#200	1.57	2.95	1.38	4.86	9.7	90.3

Data entered by: NAA Date: 5-30-95
Data checked by: SR Date: 5-30-95
FileName:SAH0621

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

CLIENT SAIC/Parsons PO 140 JOB NO. 2059-13I

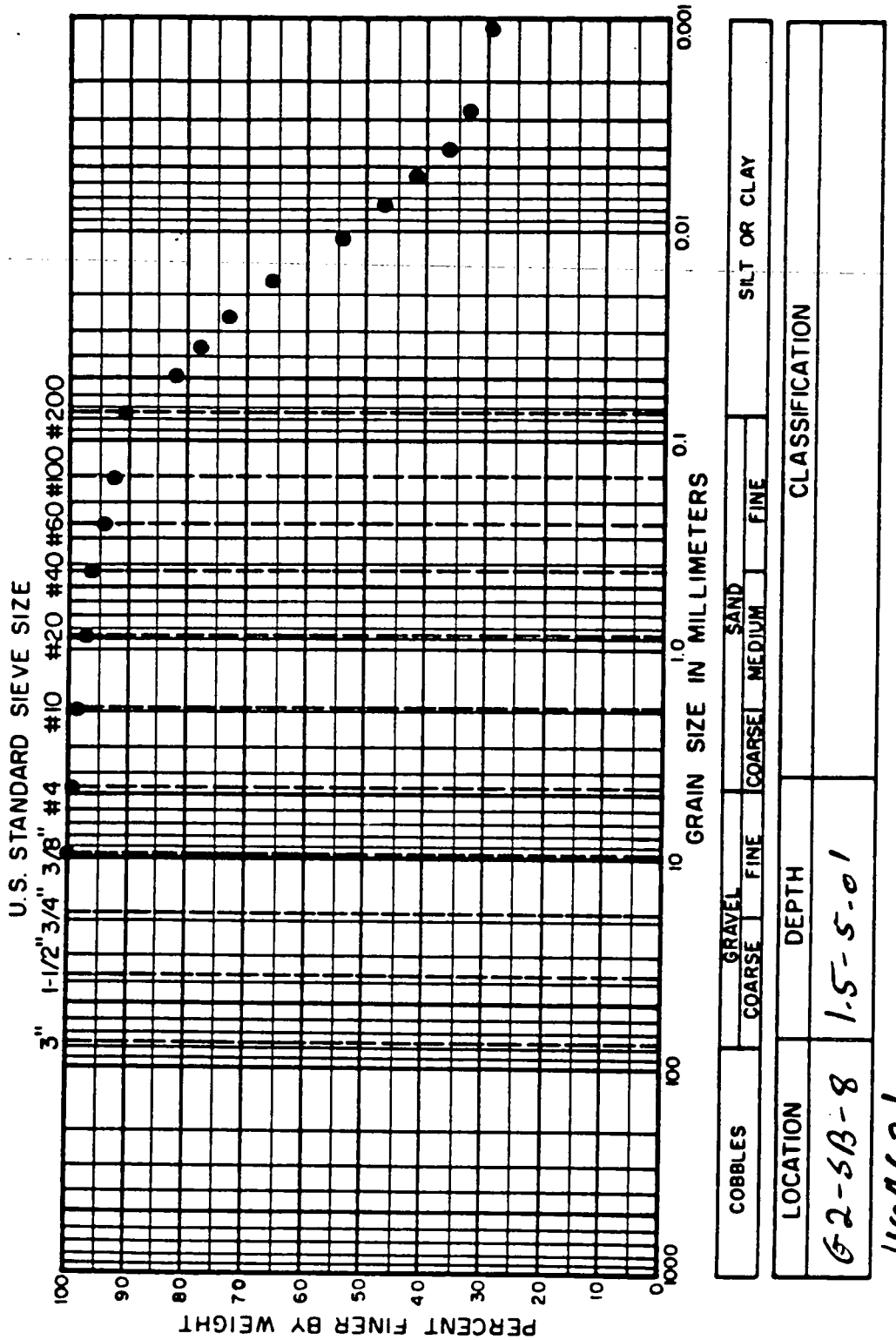
BORING NO.	G2-SB-8	SAMPLED	4-25-95 SC, BN
DEPTH	1.5-5.0'	DATE TESTED	5-26-95 REW
SAMPLE NO.	404621	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	25.0
Sp. Gr. of Soil	2.74	Temp. Coef. K	0.01256
Value of "alpha"	0.98	Wt. Dry Sample "W"	56.121
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	4.0		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	52.00	47.00	82.2	82.2	7.76	0.0495
1.0	50.00	45.00	78.7	78.7	8.09	0.0357
2.0	47.00	42.00	73.5	73.5	8.58	0.0260
5.0	43.00	38.00	66.5	66.5	9.24	0.0171
15.0	36.00	31.00	54.2	54.2	10.39	0.0105
30.0	32.00	27.00	47.2	47.2	11.04	0.0076
60.0	29.00	24.00	42.0	42.0	11.53	0.0055
120.0	26.00	21.00	36.7	36.7	12.03	0.0040
250.0	24.00	19.00	33.2	33.2	12.35	0.0028
1475.0	22.00	17.00	29.7	29.7	12.68	0.0012

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



404621

ADVANCED TERRA TESTING

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13C

BORING NO.	G2-SB-9	SAMPLED	4-20-95 JC, BN
DEPTH	1.5-5.0'	DATE TESTED	5-18-95 REW
SAMPLE NO.	404587	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC	Yes	
NATURAL	No	
Wt. Wet Soil & Pan	(g)	65.72
Wt. Dry Soil & Pan	(g)	62.62
Wt. Lost Moisture	(g)	3.10
Wt. of Pan Only	(g)	3.64
Wt. of Dry Soil	(g)	58.98
Moisture Content	%	5.3
Wt. Hydrom. Sample Wet	(g)	53.16
Wt. Hydrom. Sample Dry	(g)	50.51

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	585.27
Weight of + #10 Before Washing (g)	2.53
Weight of + #10 After Washing (g)	2.33
Weight of - #10 Wet (g)	582.74
Weight of - #10 Dry (g)	553.83
Wt. Total Sample Dry (g)	556.16
Calc. Wt. "W" (g)	50.72
Calc. Mass + #10	0.21

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	0.00	0.00	0.00	0.0	100.0
3/8"	0.00	2.11	2.11	2.11	0.4	99.6
#4	0.00	0.00	0.00	2.11	0.4	99.6
#10	0.00	0.22	0.22	2.33	0.4	99.6
#20	1.57	2.06	0.49	0.49	1.4	98.6
#40	1.59	2.19	0.60	1.09	2.6	97.4
#60	1.57	2.29	0.72	1.81	4.0	96.0
#100	1.57	2.52	0.95	2.76	5.9	94.1
#200	1.31	2.66	1.35	4.11	8.5	91.5

Data entered by: NAA Date: 5-26-95
Data checked by: DSL Date: 5-26-95
FileName:K:SAH0587

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

CLIENT SAIC/Parsons PO 140 JOB NO. 2059-13C

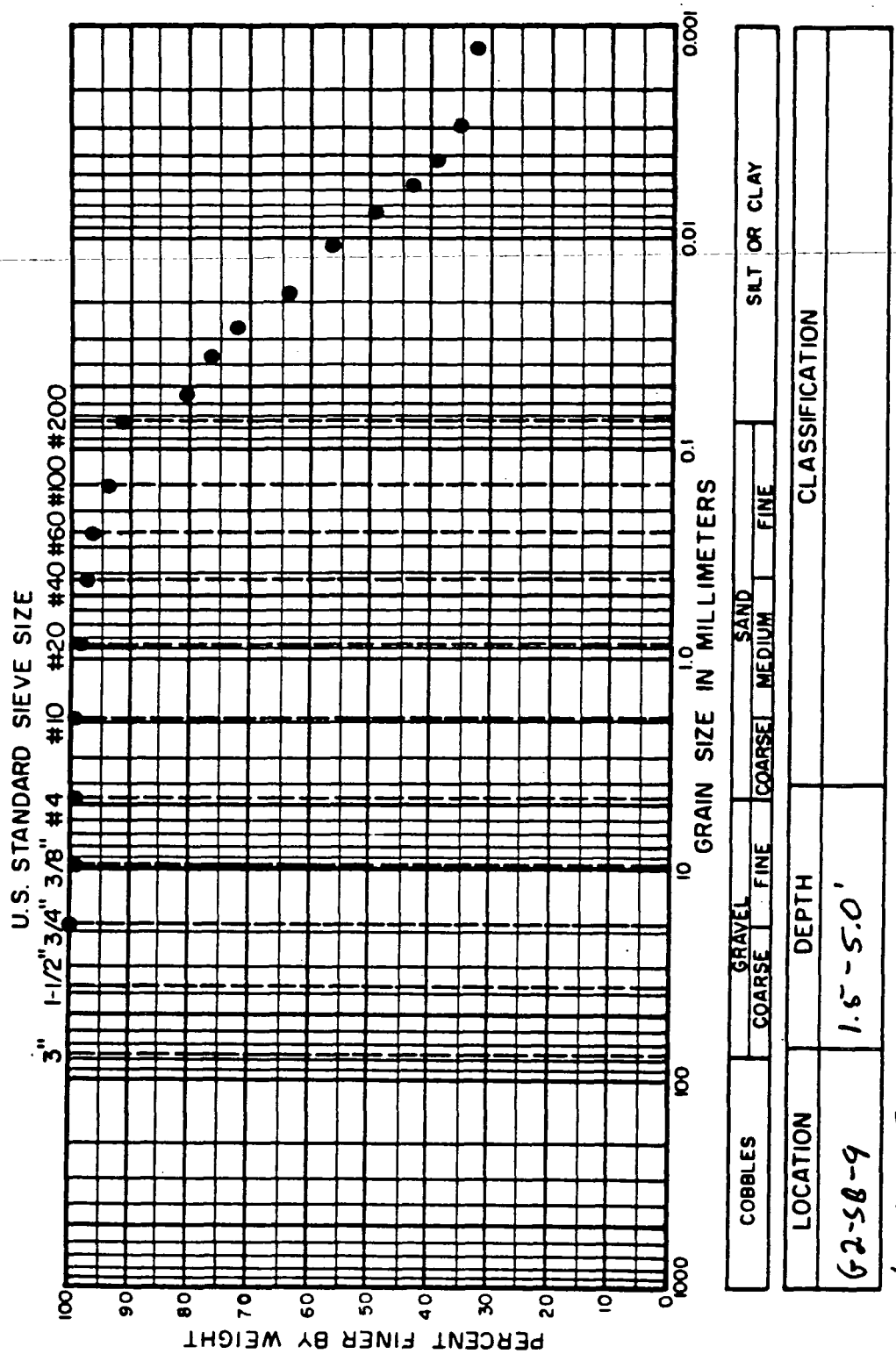
BORING NO.	G2-SB-9	SAMPLED	4-20-95 JC, BN
DEPTH	1.5-5.0'	DATE TESTED	5-18-95 REW
SAMPLE NO.	404587	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	24.8
Sp. Gr. of Soil	2.69	Temp. Coef. K	0.01274
Value of "alpha"	0.99	Wt. Dry Sample "W"	50.722
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	4.0		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	46.00	41.00	80.2	80.2	8.75	0.0533
1.0	44.00	39.00	76.3	76.3	9.07	0.0384
2.0	42.00	37.00	72.4	72.4	9.40	0.0276
5.0	38.00	33.00	64.5	64.5	10.06	0.0181
15.0	34.00	29.00	56.7	56.7	10.71	0.0108
30.0	30.00	25.00	48.9	48.9	11.37	0.0078
60.0	27.00	22.00	43.0	43.0	11.86	0.0057
120.0	25.00	20.00	39.1	39.1	12.19	0.0041
250.0	23.00	18.00	35.2	35.2	12.52	0.0029
1308.0	21.50	16.50	32.3	32.3	12.76	0.0013

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



404587

ADVANCED TERRA TESTING

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13I

BORING NO.	G2-SB-10	SAMPLED	4-26-95
DEPTH	1.5-5.0'	DATE TESTED	5-26-95 REW
SAMPLE NO.	404637	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC Yes

NATURAL No

Wt. Wet Soil & Pan	(g)	74.16
Wt. Dry Soil & Pan	(g)	72.29
Wt. Lost Moisture	(g)	1.87
Wt. of Pan Only	(g)	3.54
Wt. of Dry Soil	(g)	68.75
Moisture Content	%	2.7

Wt. Hydrom. Sample Wet (g)	56.95
Wt. Hydrom. Sample Dry (g)	55.44

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	651.74
Weight of + #10 Before Washing (g)	31.99
Weight of + #10 After Washing (g)	25.81
Weight of - #10 Wet (g)	619.75
Weight of - #10 Dry (g)	609.36
Wt. Total Sample Dry (g)	635.17
Calc. Wt. "W" (g)	57.79
Calc. Mass + #10	2.35

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	0.00	0.00	0.00	0.0	100.0
3/8"	0.00	11.43	11.43	11.43	1.8	98.2
#4	0.00	7.48	7.48	18.91	3.0	97.0
#10	0.00	6.90	6.90	25.81	4.1	95.9
#20	1.59	2.57	0.98	0.98	5.8	94.2
#40	1.58	2.65	1.07	2.05	7.6	92.4
#60	1.56	2.66	1.10	3.15	9.5	90.5
#100	1.58	3.07	1.49	4.64	12.1	87.9
#200	1.57	3.46	1.89	6.53	15.4	84.6

Data entered by: NAA Date: 5-30-95
Data checked by: SR Date: 5-30-95
FileName: SAH0637

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

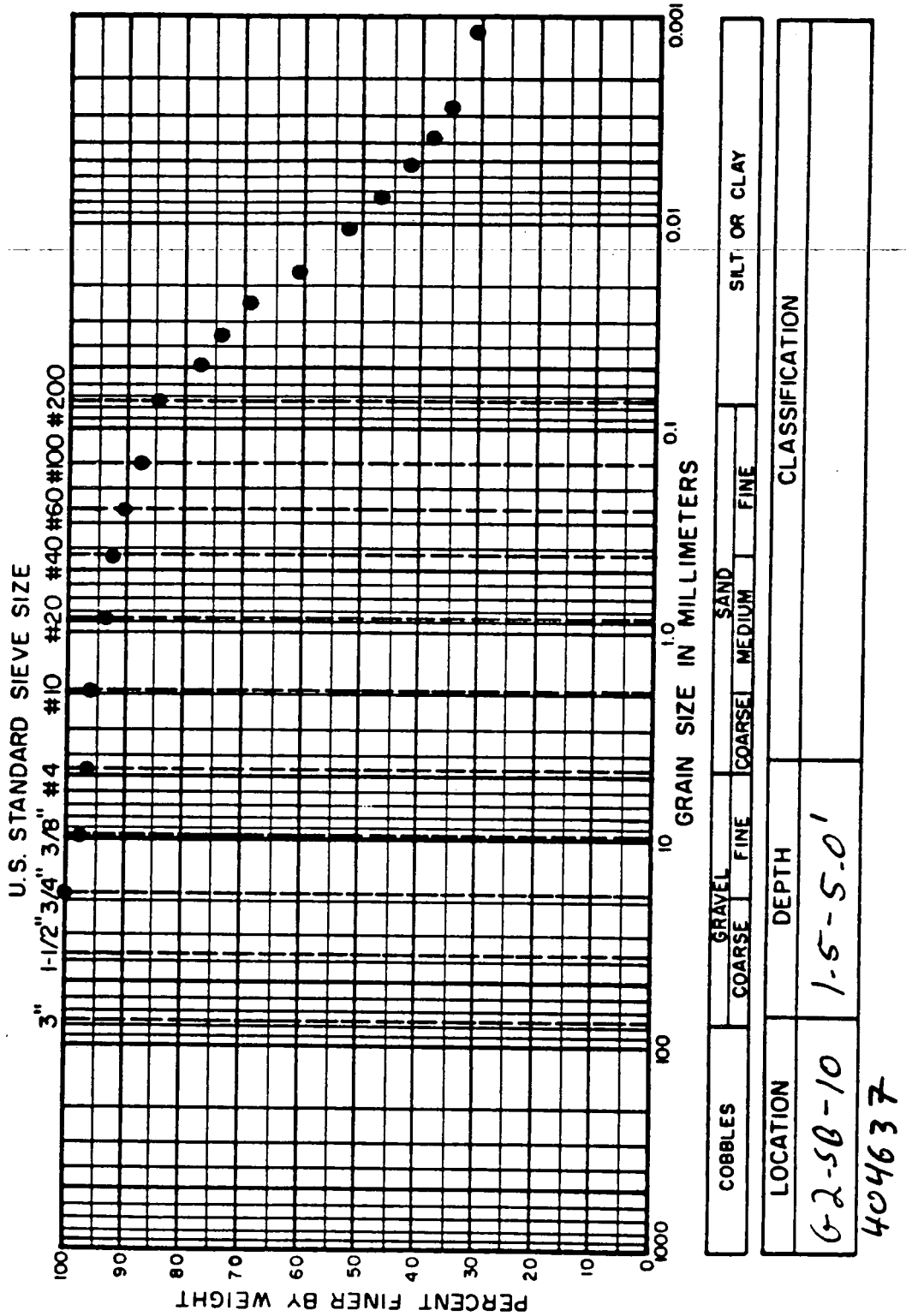
CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13I
BORING NO.	G2-SB-10	SAMPLED	4-26-95
DEPTH	1.5-5.0'	DATE TESTED	5-26-95 REW
SAMPLE NO.	404637	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	24.8
Sp. Gr. of Soil	2.77	Temp. Coef. K	0.01245
Value of "alpha"	0.98	Wt. Dry Sample "W"	57.785
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	4.0		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	51.00	46.00	77.7	77.7	7.93	0.0496
1.0	49.00	44.00	74.3	74.3	8.25	0.0358
2.0	46.00	41.00	69.2	69.2	8.75	0.0260
5.0	41.00	36.00	60.8	60.8	9.57	0.0172
15.0	36.25	31.25	52.8	52.8	10.35	0.0103
30.0	33.00	28.00	47.3	47.3	10.88	0.0075
60.0	30.00	25.00	42.2	42.2	11.37	0.0054
120.0	28.00	23.00	38.8	38.8	11.70	0.0039
250.0	26.00	21.00	35.5	35.5	12.03	0.0027
1530.0	23.00	18.00	30.4	30.4	12.52	0.0011

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



ADVANCED TERRA TESTING

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13I
BORING NO.	G2-SB-11	SAMPLED	4-27-95 JC, BN
DEPTH	1.5-5.0'	DATE TESTED	5-26-95 REW
SAMPLE NO.	404642	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC	Yes	
NATURAL	No	
Wt. Wet Soil & Pan	(g)	78.23
Wt. Dry Soil & Pan	(g)	77.09
Wt. Lost Moisture	(g)	1.14
Wt. of Pan Only	(g)	3.85
Wt. of Dry Soil	(g)	73.24
Moisture Content	%	1.6
Wt. Hydrom. Sample Wet	(g)	58.81
Wt. Hydrom. Sample Dry	(g)	57.91

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	744.37
Weight of + #10 Before Washing (g)	70.38
Weight of + #10 After Washing (g)	59.89
Weight of - #10 Wet (g)	673.99
Weight of - #10 Dry (g)	673.99
Wt. Total Sample Dry (g)	733.88
Calc. Wt. "W" (g)	63.06
Calc. Mass + #10	5.15

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	15.17	15.17	15.17	2.1	97.9
3/8"	0.00	14.71	14.71	29.88	4.1	95.9
#4	0.00	12.68	12.68	42.56	5.8	94.2
#10	0.00	17.33	17.33	59.89	8.2	91.8
#20	1.56	3.23	1.67	1.67	10.8	89.2
#40	1.57	3.04	1.47	3.14	13.1	86.9
#60	1.58	2.98	1.40	4.54	15.4	84.6
#100	1.57	3.34	1.77	6.31	18.2	81.8
#200	1.57	4.23	2.66	8.97	22.4	77.6

Data entered by: NAA Date: 5-30-95
Data checked by: [illegible] Date: 8-12-95
FileName: SAH0642

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

CLIENT SAIC/Parsons PO 140 JOB NO. 2059-13I

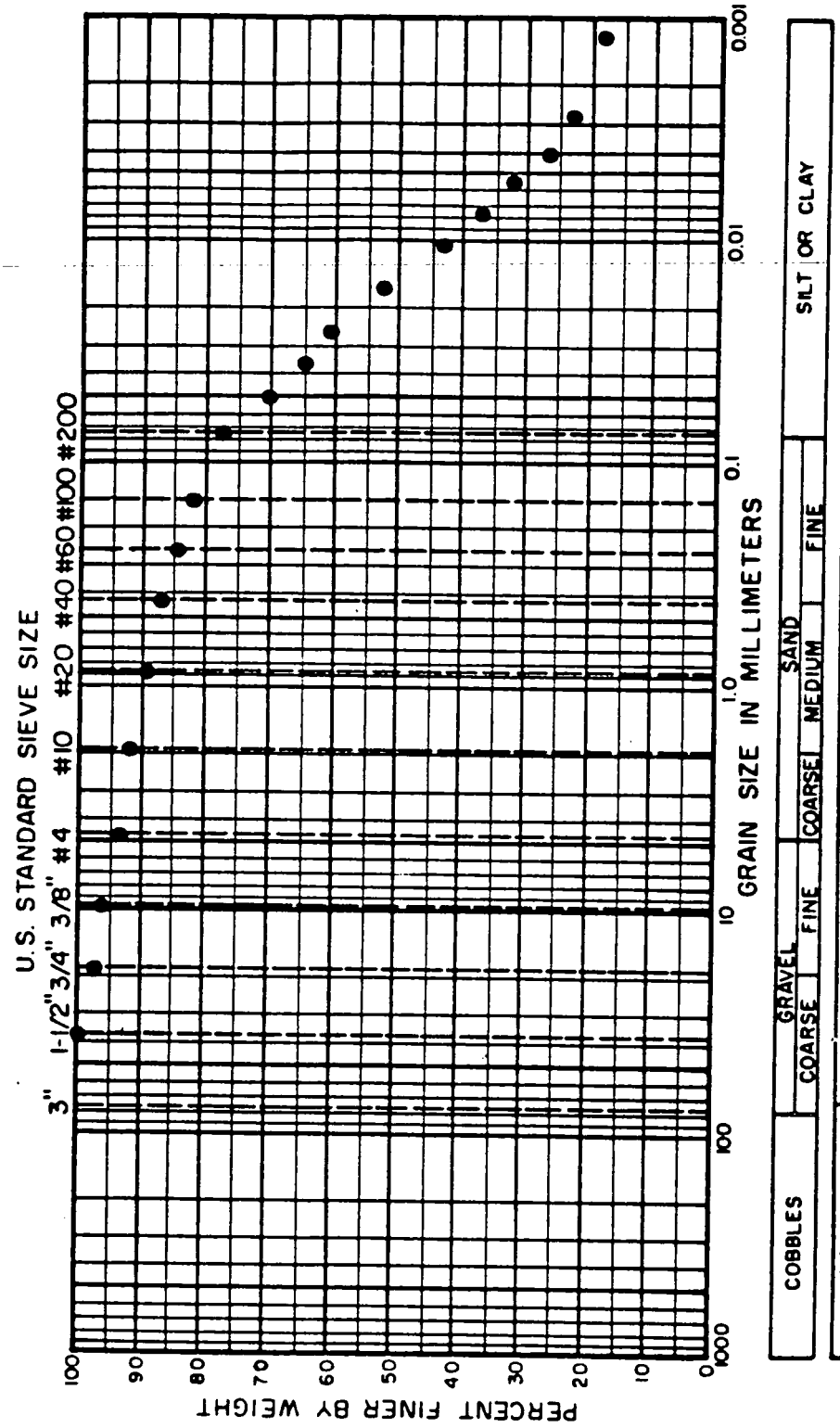
BORING NO.	G2-SB-11	SAMPLED	4-27-95 JC, BN
DEPTH	1.5-5.0'	DATE TESTED	5-26-95 REW
SAMPLE NO.	404642	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	24.8
Sp. Gr. of Soil	2.77	Temp. Coef. K	0.01245
Value of "alpha"	0.98	Wt. Dry Sample "W"	63.056
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	4.0		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	50.00	45.00	69.7	69.7	8.09	0.0501
1.0	47.00	42.00	65.0	65.0	8.58	0.0365
2.0	44.00	39.00	60.4	60.4	9.07	0.0265
5.0	39.00	34.00	52.6	52.6	9.89	0.0175
15.0	33.00	28.00	43.3	43.3	10.88	0.0106
30.0	29.00	24.00	37.1	37.1	11.53	0.0077
60.0	26.00	21.00	32.5	32.5	12.03	0.0056
120.0	22.00	17.00	26.3	26.3	12.68	0.0040
250.0	20.00	15.00	23.2	23.2	13.01	0.0028
1520.0	17.00	12.00	18.6	18.6	13.50	0.0012

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



LOCATION	DEPTH	CLASSIFICATION
G2-SB-11	1.5-5.0'	

404642

ADVANCED TERRA TESTING

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13I

BORING NO.	G2-SB-12	SAMPLED	4-21-95 JC, BN
DEPTH	1.5-4.2'	DATE TESTED	5-19-95 REW
SAMPLE NO.	404599	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC	Yes	
NATURAL	No	
Wt. Wet Soil & Pan	(g)	54.27
Wt. Dry Soil & Pan	(g)	52.45
Wt. Lost Moisture	(g)	1.82
Wt. of Pan Only	(g)	3.57
Wt. of Dry Soil	(g)	48.88
Moisture Content	%	3.7
Wt. Hydrom. Sample Wet	(g)	52.96
Wt. Hydrom. Sample Dry	(g)	51.06

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	528.80
Weight of + #10 Before Washing (g)	4.55
Weight of + #10 After Washing (g)	3.51
Weight of - #10 Wet (g)	524.25
Weight of - #10 Dry (g)	506.43
Wt. Total Sample Dry (g)	509.94
Calc. Wt. "W" (g)	51.41
Calc. Mass + #10	0.35

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	0.00	0.00	0.00	0.0	100.0
3/8"	0.00	0.00	0.00	0.00	0.0	100.0
#4	0.00	2.04	2.04	2.04	0.4	99.6
#10	0.00	1.47	1.47	3.51	0.7	99.3
#20	1.58	2.06	0.48	0.48	1.6	98.4
#40	1.59	2.25	0.66	1.14	2.9	97.1
#60	1.57	2.45	0.88	2.02	4.6	95.4
#100	1.59	2.96	1.37	3.39	7.3	92.7
#200	1.58	3.41	1.83	5.22	10.8	89.2

Data entered by: NAA Date: 5-30-95
Data checked by: SR Date: 5-30-95
FileName:SAH0599

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

CLIENT SAIC/Parsons PO 140 JOB NO. 2059-13I

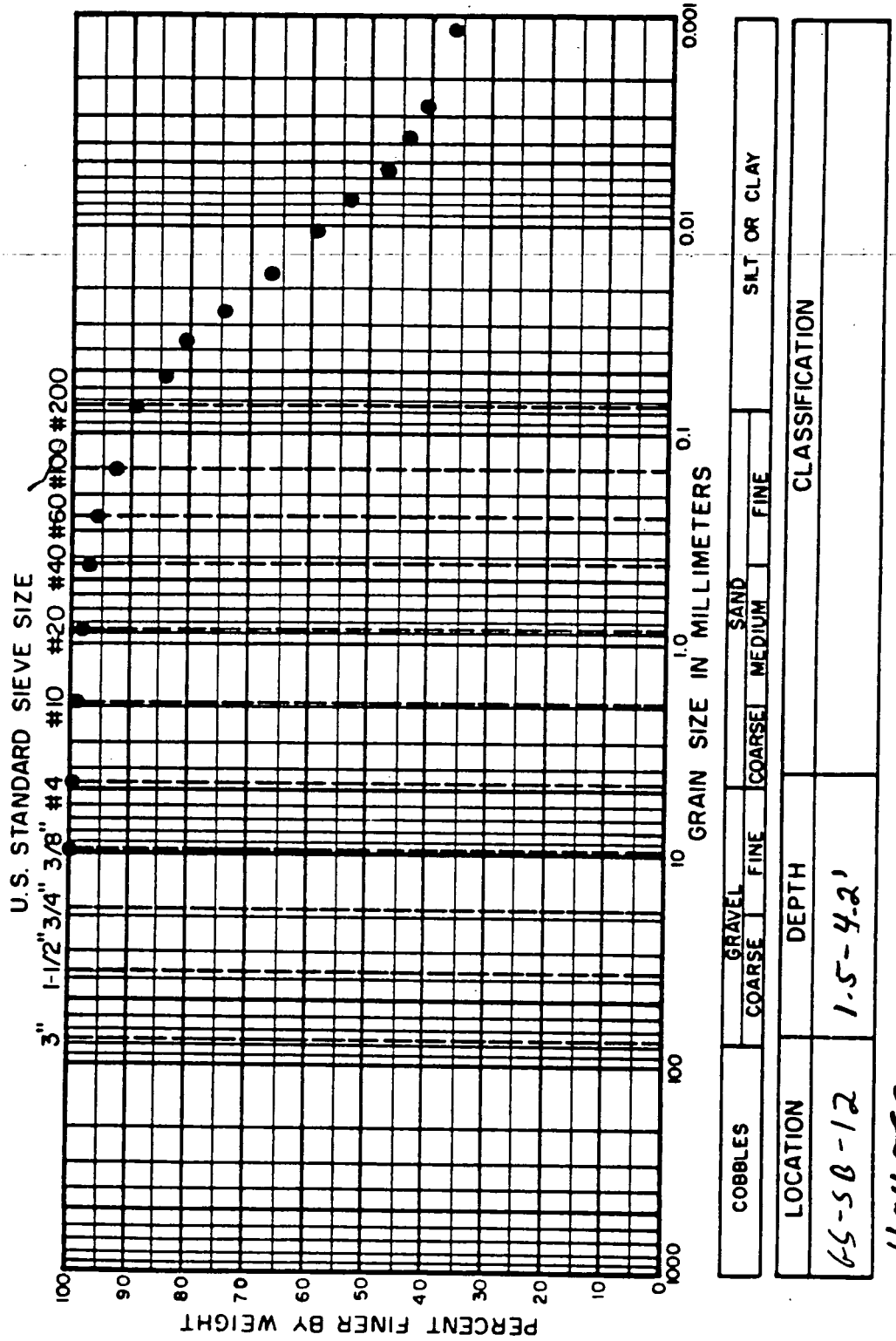
BORING NO.	G2-SB-12	SAMPLED	4-21-95 JC, BN
DEPTH	1.5-4.2'	DATE TESTED	5-19-95 REW
SAMPLE NO.	404599	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	24.7
Sp. Gr. of Soil	2.73	Temp. Coef. K	0.01261
Value of "alpha"	0.98	Wt. Dry Sample "W"	51.415
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	4.0		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	49.00	44.00	84.2	84.2	8.25	0.0512
1.0	47.00	42.00	80.4	80.4	8.58	0.0369
2.0	44.00	39.00	74.6	74.6	9.07	0.0269
5.0	40.00	35.00	67.0	67.0	9.73	0.0176
15.0	36.00	31.00	59.3	59.3	10.39	0.0105
30.0	33.00	28.00	53.6	53.6	10.88	0.0076
60.0	30.00	25.00	47.8	47.8	11.37	0.0055
120.0	28.00	23.00	44.0	44.0	11.70	0.0039
250.0	26.25	21.25	40.7	40.7	11.99	0.0028
1535.0	24.00	19.00	36.4	36.4	12.35	0.0011

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



404599

ADVANCED TERRA TESTING

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13C

BORING NO.	G2-SB-13	SAMPLED	4-20-95
DEPTH	1.5-5.0'	DATE TESTED	5-23-95 REW
SAMPLE NO.	404583	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC Yes

NATURAL No

Wt. Wet Soil & Pan	(g)	92.31
Wt. Dry Soil & Pan	(g)	89.85
Wt. Lost Moisture	(g)	2.46
Wt. of Pan Only	(g)	8.34
Wt. of Dry Soil	(g)	81.51
Moisture Content	%	3.0

Wt. Hydrom. Sample Wet (g)	57.56
Wt. Hydrom. Sample Dry (g)	55.88

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	599.40
Weight of + #10 Before Washing (g)	16.71
Weight of + #10 After Washing (g)	13.55
Weight of - #10 Wet (g)	582.69
Weight of - #10 Dry (g)	568.69
Wt. Total Sample Dry (g)	582.24
Calc. Wt. "W" (g)	57.21
Calc. Mass + #10	1.33

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	0.00	0.00	0.00	0.0	100.0
3/8"	0.00	2.16	2.16	2.16	0.4	99.6
#4	0.00	6.74	6.74	8.90	1.5	98.5
#10	0.00	4.65	4.65	13.55	2.3	97.7
#20	1.59	2.49	0.90	0.90	3.9	96.1
#40	1.58	2.58	1.00	1.90	5.6	94.4
#60	1.59	2.66	1.07	2.97	7.5	92.5
#100	1.58	3.00	1.42	4.39	10.0	90.0
#200	1.56	3.52	1.96	6.35	13.4	86.6

Data entered by: NAA Date: 6-1-95
Data checked by: DSL Date: 6-5-95
FileName:SAH0583

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13C

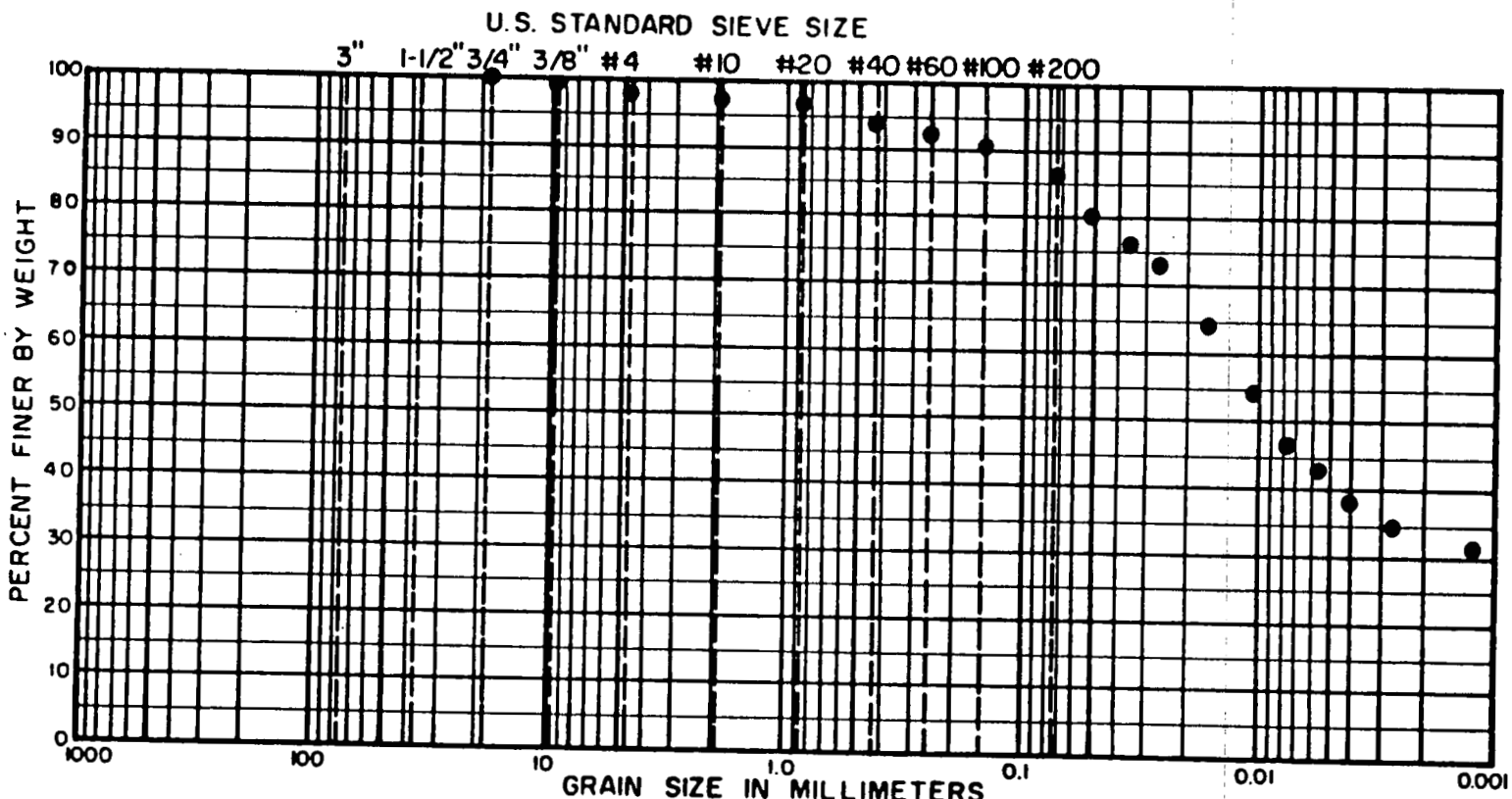
BORING NO.	G2-SB-13	SAMPLED	4-20-95
DEPTH	1.5-5.0'	DATE TESTED	5-23-95 REW
SAMPLE NO.	404583	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	24.8
Sp. Gr. of Soil	2.68	Temp. Coef. K	0.01278
Value of "alpha"	0.99	Wt. Dry Sample "W"	57.207
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	4.0		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	51.00	46.00	79.9	79.9	7.93	0.0509
1.0	49.00	44.00	76.5	76.5	8.25	0.0367
2.0	47.00	42.00	73.0	73.0	8.58	0.0265
5.0	42.00	37.00	64.3	64.3	9.40	0.0175
15.0	36.00	31.00	53.9	53.9	10.39	0.0106
30.0	32.00	27.00	46.9	46.9	11.04	0.0078
60.0	30.00	25.00	43.4	43.4	11.37	0.0056
120.0	27.00	22.00	38.2	38.2	11.86	0.0040
250.0	25.00	20.00	34.8	34.8	12.19	0.0028
1353.0	23.00	18.00	31.3	31.3	12.52	0.0012

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

LOCATION	DEPTH	CLASSIFICATION
62-SB-13	1.5'-5.0'	

404583

ADVANCED TERRA TESTING

518

000582

474

MECHANICAL ANALYSIS - SIEVE TEST DATA
ASTM D 422

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13C

BORING NO.	G2-SB-14	SAMPLED	4-19-95
DEPTH	1.5-5.0'	DATE TESTED	5-22-95 REW
SAMPLE NO.	404578	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

MOISTURE DATA

HYGROSCOPIC	Yes	
NATURAL	No	
Wt. Wet Soil & Pan	(g)	74.01
Wt. Dry Soil & Pan	(g)	71.74
Wt. Lost Moisture	(g)	2.27
Wt. of Pan Only	(g)	3.67
Wt. of Dry Soil	(g)	68.07
Moisture Content	%	3.3
Wt. Hydrom. Sample Wet	(g)	57.95
Wt. Hydrom. Sample Dry	(g)	56.08

WASH SIEVE ANALYSIS

Wt. Total Sample Wet (g)	643.12
Weight of + #10 Before Washing (g)	10.89
Weight of + #10 After Washing (g)	9.57
Weight of - #10 Wet (g)	632.23
Weight of - #10 Dry (g)	613.10
Wt. Total Sample Dry (g)	622.67
Calc. Wt. "W" (g)	56.96
Calc. Mass + #10	0.88

Sieve Number (Size)	Pan Weight (g)	Indiv. Wt. + Pan (g)	Indiv. Wt. Retain.	Cum. Wt. Retain.	Cum. % Retain.	% Finer By Wt.
1 1/2"	0.00	0.00	0.00	0.00	0.0	100.0
3/4"	0.00	0.00	0.00	0.00	0.0	100.0
3/8"	0.00	6.63	6.63	6.63	1.1	98.9
#4	0.00	1.07	1.07	7.70	1.2	98.8
#10	0.00	1.87	1.87	9.57	1.5	98.5
#20	1.57	2.17	0.60	0.60	2.6	97.4
#40	1.57	2.36	0.79	1.39	4.0	96.0
#60	1.57	2.59	1.02	2.41	5.8	94.2
#100	1.59	3.01	1.42	3.83	8.3	91.7
#200	1.31	3.28	1.97	5.80	11.7	88.3

Data entered by: NAA Date: 5-26-95
Data checked by: [illegible] Date: 5-26-95
FileName:K:SAH0578

ADVANCED TERRA TESTING, INC.

HYDROMETER ANALYSIS - SEDIMENTATION DATA

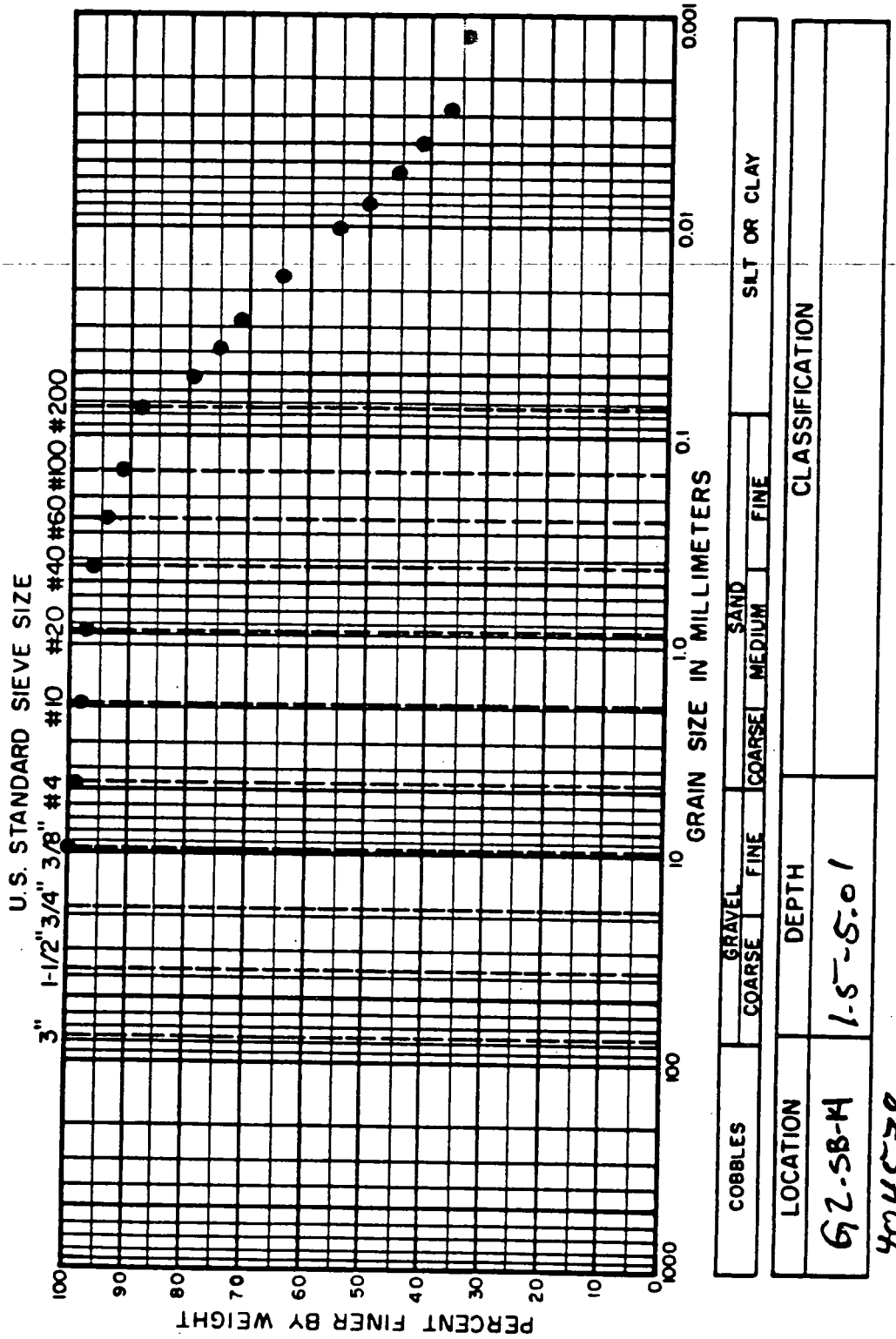
CLIENT	SAIC/Parsons PO 140	JOB NO.	2059-13C
BORING NO.	G2-SB-14	SAMPLED	4-19-95
DEPTH	1.5-5.0'	DATE TESTED	5-22-95 REW
SAMPLE NO.	404578	WASH SIEVE	Yes
SOIL DESCR.	Fernald	DRY SIEVE	No

Hydrometer #	ASTM 152 H	Temp., Deg. C	24.9
Sp. Gr. of Soil	2.78	Temp. Coef. K	0.01240
Value of "alpha"	0.97	Wt. Dry Sample "W"	56.957
Deflocculant	Sodium Hexametaphosphate	% of Total Sample	100.0
Defloc. Corr'n	4.0		
Meniscus Corr'n	-1.0		

T Elapsed Time (min)	Hydrometer Reading Original	Corrected "R"	100Ra/W	% Total Sample	Effective Depth L	Grain Diameter (mm)
0.0	--	--	--	--	--	--
0.5	51.00	46.00	78.7	78.7	7.93	0.0494
1.0	49.00	44.00	75.2	75.2	8.25	0.0356
2.0	47.00	42.00	71.8	71.8	8.58	0.0257
5.0	43.00	38.00	65.0	65.0	9.24	0.0169
15.0	37.50	32.50	55.6	55.6	10.14	0.0102
30.0	34.25	29.25	50.0	50.0	10.67	0.0074
60.0	31.50	26.50	45.3	45.3	11.12	0.0053
120.0	29.00	24.00	41.0	41.0	11.53	0.0038
250.0	27.00	22.00	37.6	37.6	11.86	0.0027
1303.0	25.00	20.00	34.2	34.2	12.19	0.0012

Grain Diameter = K*(SQRT(L/T))

ADVANCED TERRA TESTING, INC.



404578

ADVANCED TERRA TESTING

GEOTECHNICAL INVESTIGATION ON-SITE DISPOSAL FACILITY

SOIL INVESTIGATION DATA REPORT

VOLUME 3

Operable Unit 2
Project Order 140

August 18, 1995

for
PARSONS, Environmental Remedial Action Project
Fernald Environmental Management Project
Fernald, Ohio

by
Science Applications International Corporation
14062 Denver West Parkway, Suite 200
Golden, Colorado 80401
(303) 279-7242

Under Subcontract No. 7663S0018 to PARSONS

GEOTECHNICAL INVESTIGATION ON-SITE DISPOSAL FACILITY

SOIL INVESTIGATION DATA REPORT

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CONSOLIDATION TEST

ASTM D 2435

(Natural Moisture)

CONSOLIDATION TEST
ASTM D-2435

CLIENT SAIC/Parsons PO 140 JOB NO. 2059-13G

BORING NO.	G2-122	SAMPLED	5-1-95 JM
DEPTH	5.0-7.0'	TEST STARTED	5-24-95 WEB
SAMPLE NO.	404821	TEST FINISHED	6-1-95 DSR
SOIL DESCR.	Fernald	CELL NUMBER	ATT-8
Note: Natural Moisture			
SAMPLE DIA.(in)	2.410	INITIAL HT.(in)	1.000

MOISTURE/DENSITY DATA	BEFORE TEST	AFTER TEST
Wt. Soil & Ring(s) (g)	204.4	195.3
Wt. Ring(s) (g)	45.9	45.9
Wt. Soil (g)	158.5	149.4
Wet Density PCF	132.4	133.0
Wt. Wet Soil & Pan (g)	162.1	152.9
Wt. Dry Soil & Pan (g)	139.5	139.5
Wt. Lost Moisture (g)	22.6	13.4
Wt. of Pan Only (g)	3.6	3.6
Wt. of Dry Soil (g)	135.9	135.9
Moisture Content %	16.6	9.9
Dry Density PCF	113.5	121.0

LOAD (PSF)	CONSOL. (IN.)
100	0.0000
200	0.0062
400	0.0076
800	0.0141
1600	0.0306
3200	0.0440
6400	0.0512
12800	0.0605
25600	0.0734
6400	0.0686
1600	0.0649
400	0.0635
100	0.0620

LOAD (PSF)	LOG p	CONSOL. (IN.)	DEFL. (IN.)	VOID RATIO e
100	2.000	0.0000	0.0000	0.5070
200	2.301	0.0062	-0.0062	0.4977
400	2.602	0.0076	-0.0076	0.4956
800	2.903	0.0141	-0.0141	0.4858
1600	3.204	0.0306	-0.0306	0.4609
3200	3.505	0.0440	-0.0440	0.4407
6400	3.806	0.0512	-0.0512	0.4299
12800	4.107	0.0605	-0.0605	0.4158
25600	4.408	0.0734	-0.0734	0.3964
6400	3.806	0.0686	-0.0686	0.4036
1600	3.204	0.0649	-0.0649	0.4092
400	2.602	0.0635	-0.0635	0.4113
100	2.000	0.0620	-0.0620	0.4136

% Saturation	89.9
Sp. Gr. (g/cc)	2.740
Init. Ht. Solids (cm)	1.685
Init. Ht. Voids (cm)	0.855
Init. Void Ratio	0.5070

Data entry by: NAA Date: 6-2-95
Data checked by: CW Date: 8-12-95
FileName:SAC0821

ADVANCED TERRA TESTING, INC.

TIME READING DATA

G2-122
5.0-7.0'

1600 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.0153	0.0000
0.1	0.32	0.0270	-0.0117
0.3	0.50	0.0283	-0.0130
0.5	0.71	0.0285	-0.0132
1.0	1.00	0.0288	-0.0135
2.0	1.41	0.0289	-0.0136
4.0	2.00	0.0292	-0.0139
9.0	3.00	0.0294	-0.0141
16.0	4.00	0.0297	-0.0144
30.0	5.48	0.0299	-0.0146
60.0	7.75	0.0301	-0.0148
120.0	10.95	0.0306	-0.0153
240.0	15.49	0.0311	-0.0158
480.0	21.91	0.0317	-0.0164

3200 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.0327	0.0000
0.1	0.32	0.0422	-0.0095
0.3	0.50	0.0427	-0.0100
0.5	0.71	0.0430	-0.0103
1.0	1.00	0.0432	-0.0105
2.0	1.41	0.0436	-0.0109
4.0	2.00	0.0437	-0.0110
9.0	3.00	0.0439	-0.0112
16.0	4.00	0.0441	-0.0114
30.0	5.48	0.0443	-0.0116
60.0	7.75	0.0446	-0.0119
120.0	10.95	0.0451	-0.0124
240.0	15.49	0.0456	-0.0129

6400 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.0475	0.0000
0.1	0.32	0.0513	-0.0038
0.3	0.50	0.0516	-0.0041
0.5	0.71	0.0518	-0.0043
1.0	1.00	0.0520	-0.0045
2.0	1.41	0.0523	-0.0048
4.0	2.00	0.0526	-0.0051
9.0	3.00	0.0528	-0.0053
16.0	4.00	0.0530	-0.0055
30.0	5.48	0.0533	-0.0058
60.0	7.75	0.0536	-0.0061
120.0	10.95	0.0540	-0.0065
240.0	15.49	0.0545	-0.0070
480.0	21.91	0.0552	-0.0077

12800 psf Load

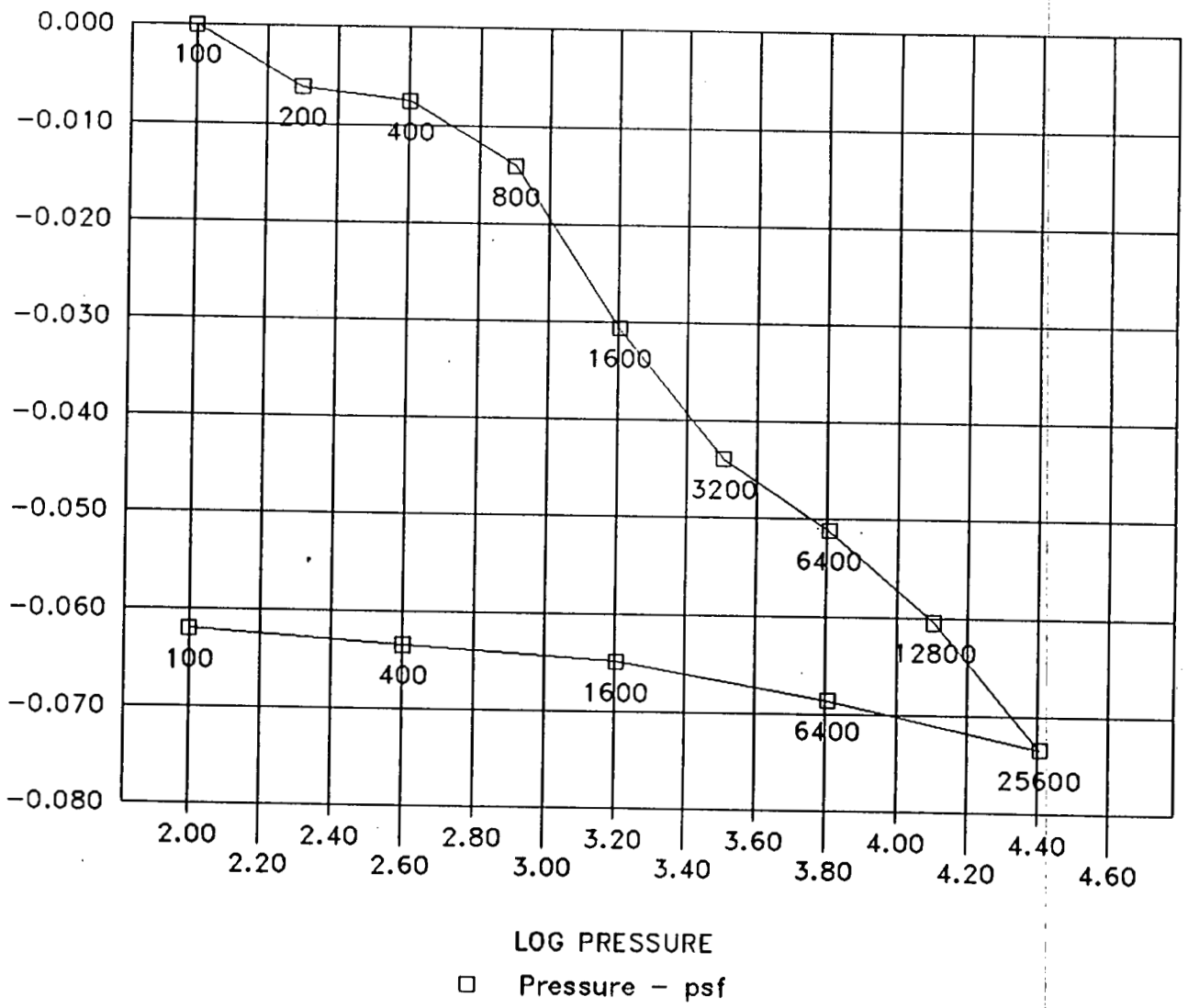
Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.0562	0.0000
0.1	0.32	0.0611	-0.0049
0.3	0.50	0.0615	-0.0053
0.5	0.71	0.0618	-0.0056
1.0	1.00	0.0621	-0.0059
2.0	1.41	0.0624	-0.0062
4.0	2.00	0.0627	-0.0065
9.0	3.00	0.0632	-0.0070
16.0	4.00	0.0634	-0.0072
30.0	5.48	0.0637	-0.0075
60.0	7.75	0.0641	-0.0079
120.0	10.95	0.0646	-0.0084
240.0	15.49	0.0653	-0.0091
480.0	21.91	0.0660	-0.0098

Data entry by: NAA Date: 6-2-95
Data checked by: DSR Date: 6-9-95
FileName:SAC0821

ADVANCED TERRA TESTING, INC.

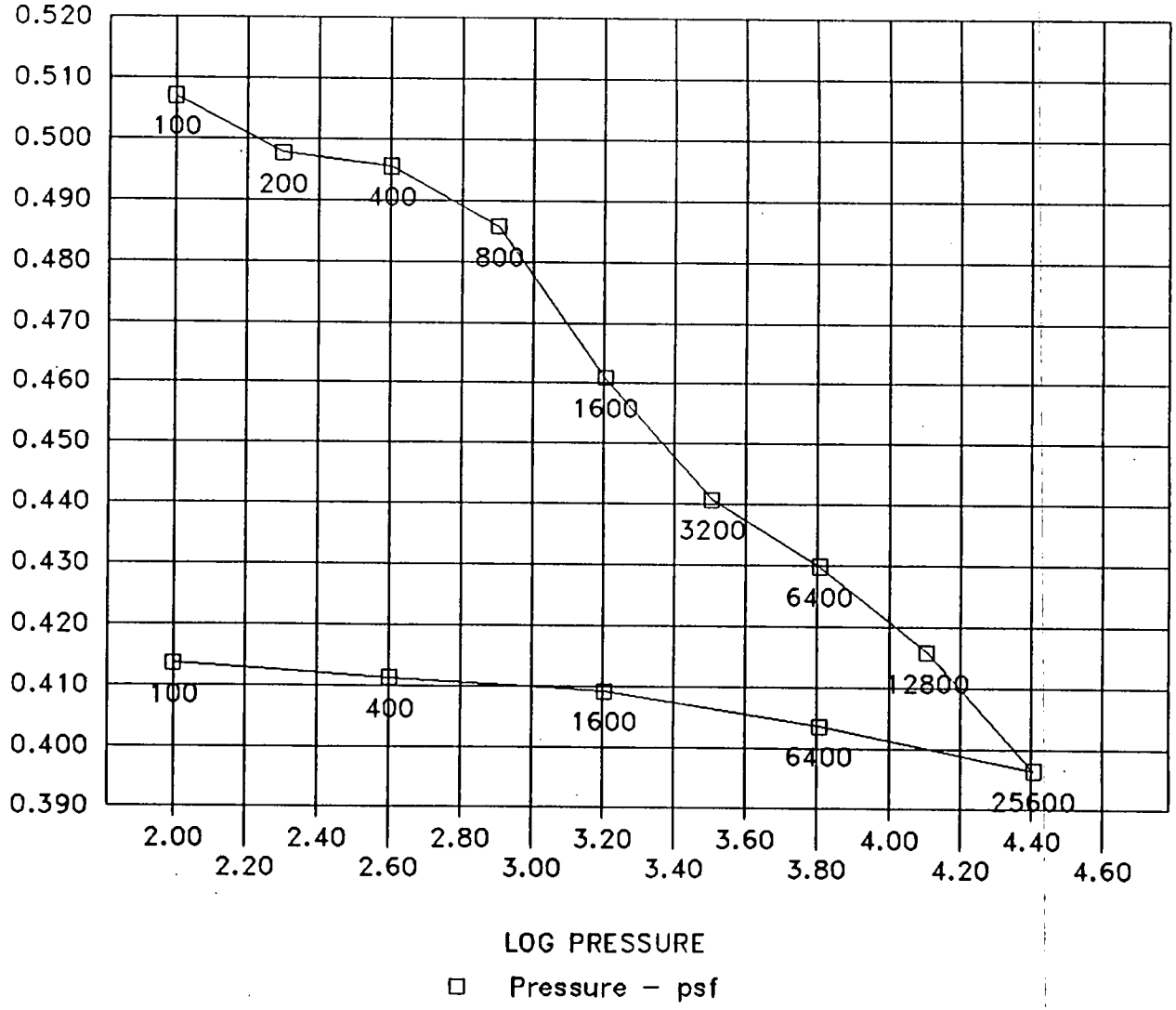
CONSOLIDATION TEST DATA

G2-122,404821,5.0-7.0'



CONSOLIDATION TEST DATA

G2-122,404821,5.0-7.0'



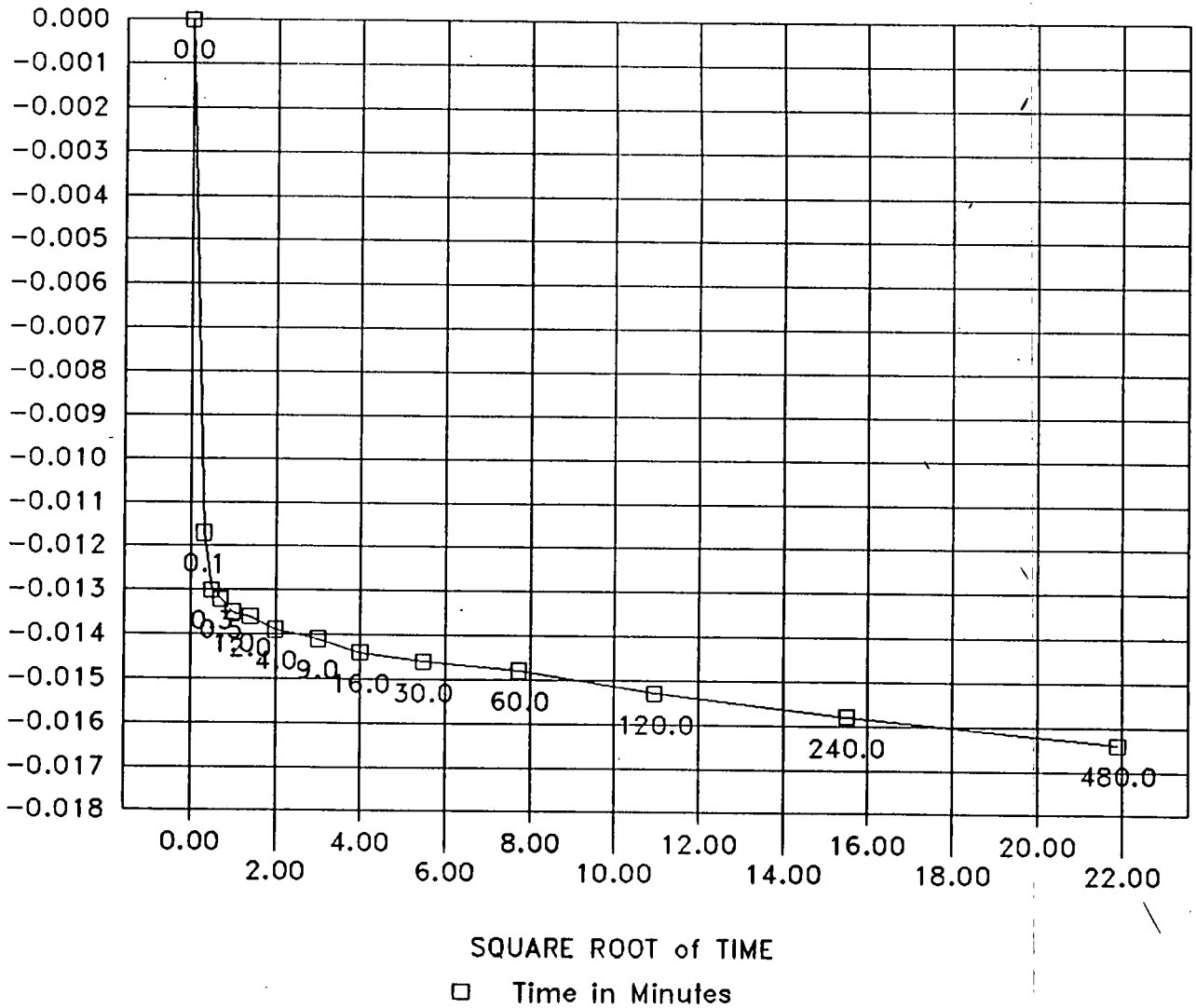
526

000592

474

TIME READING DATA

G2-122,404821,5.0-7.0',1600 psf Load



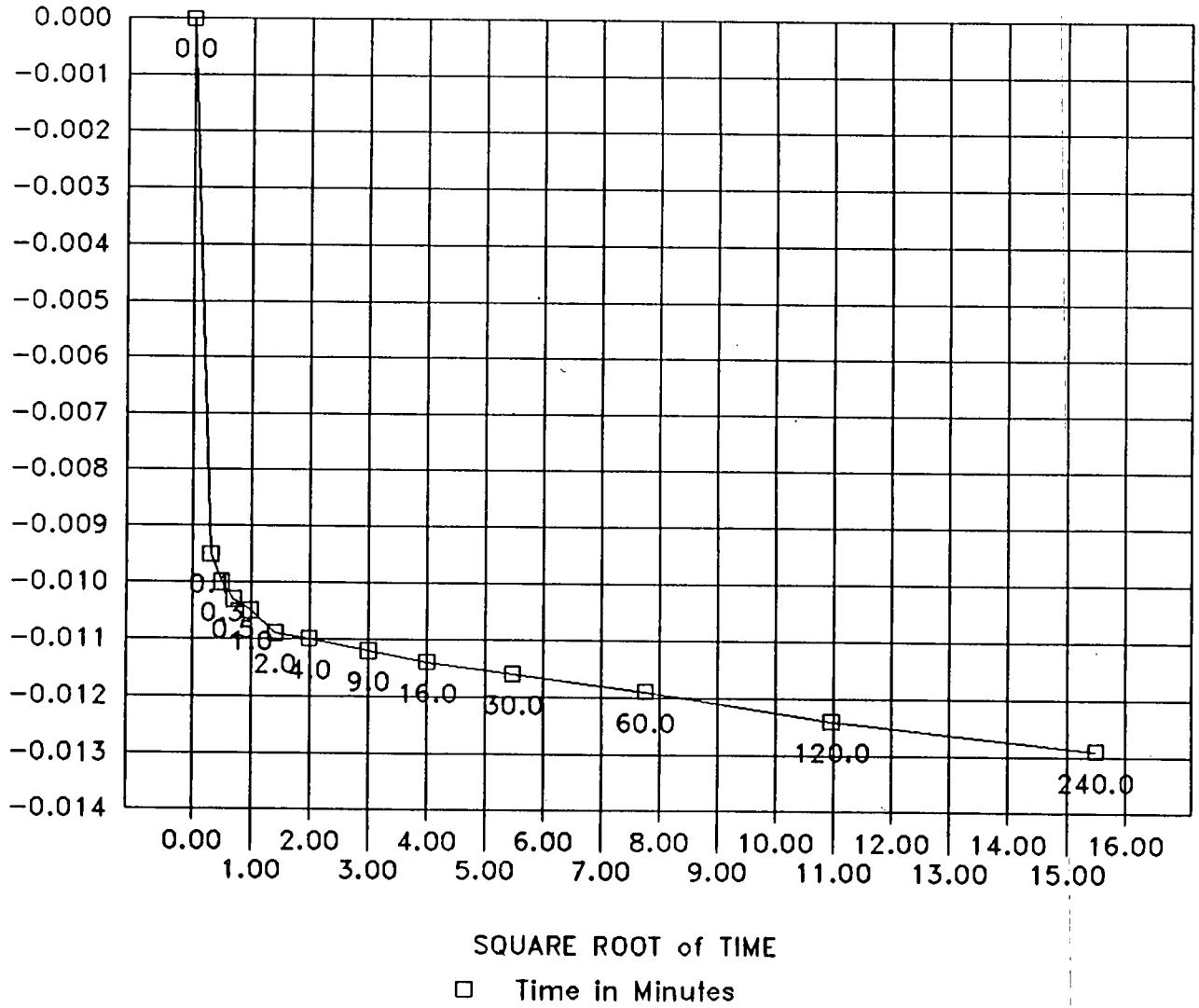
527

000593

474

TIME READING DATA

G2-122,404821,5.0-7.0',3200 psf Load



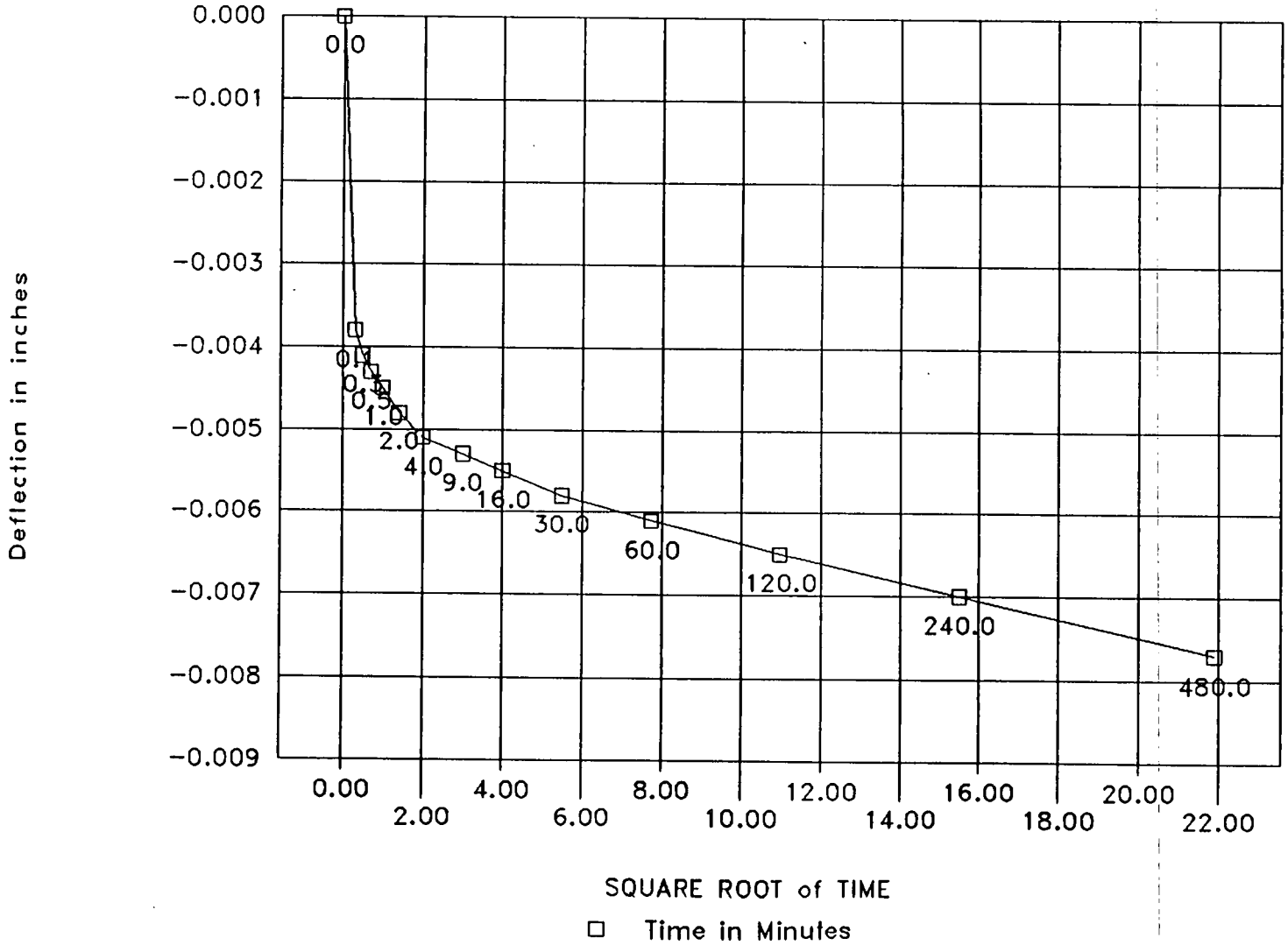
528

000591

474

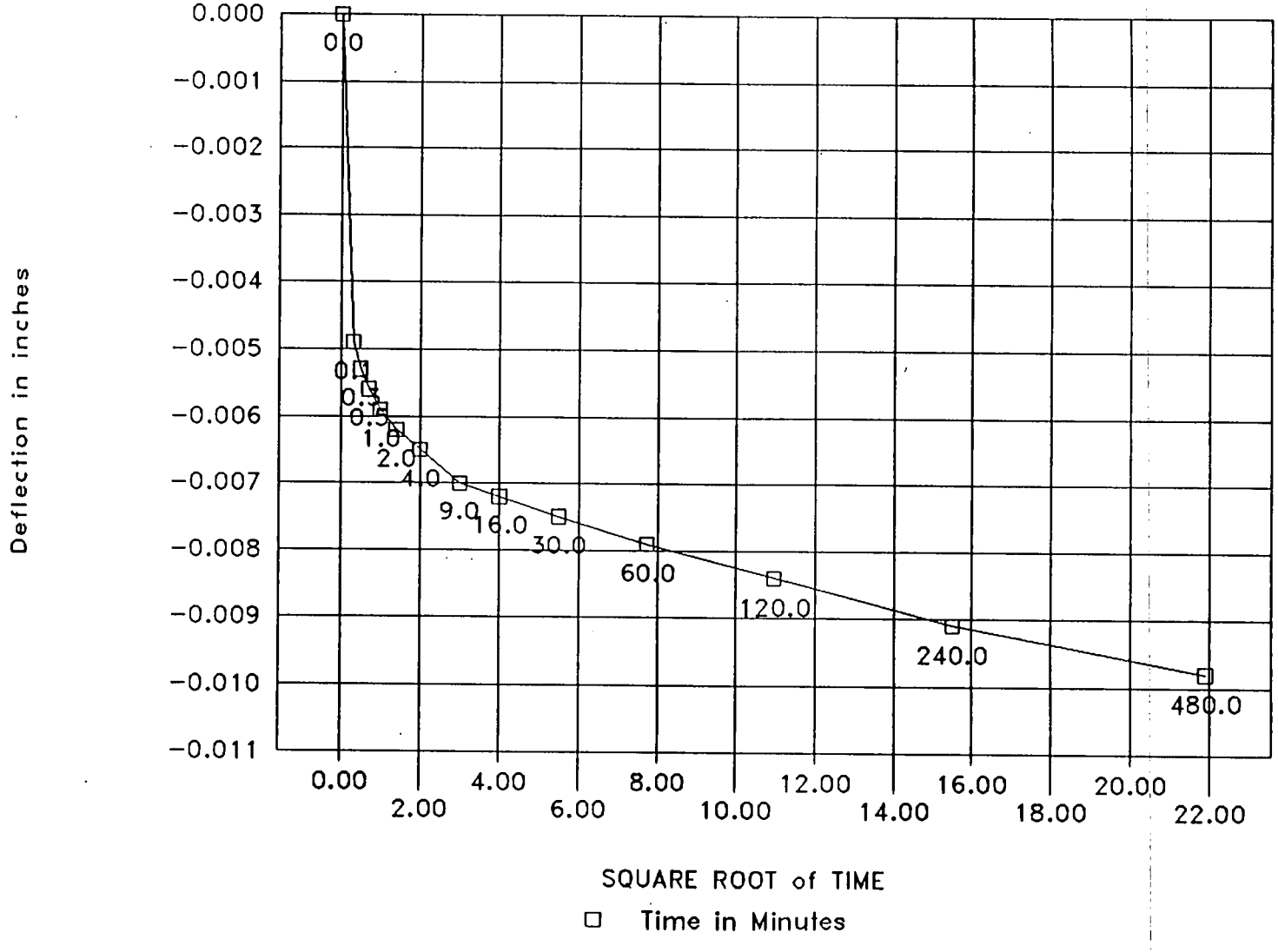
TIME READING DATA

G2-122,404821,5.0-7.0',6400 psf Load



TIME READING DATA

G2-122,404821,5.0-7.0',12800 psf Load



CONSOLIDATION TEST DATA SHEET

SACC821 SACE821 2821 3821 4821

474 PAGE 1 OF 2

JOB SAIC / PARSONS PO140 JOB NO. 2059-136

DATE SAMPLED 5-1-95 JM BORING NO. G2-122

TEST STARTED 5-24-95 BY WEB TEST FINISHED 6-2-95 BY DEB DEPTH 5'-7' SAMPLE 40482

SOIL TYPE Fernald

CONSOLIDOMETER NO. ATT-8 INITIAL SAMPLE HEIGHT 1" Do = 2.41"

MOISTURE & DENSITY DATA	BEFORE TEST	AFTER TEST
WT. OF RING(S)+ SOIL	204.42	195.25
WT. OF RING(S) ONLY AFTER TEST	45.89	45.89
WT. OF SOIL (NET)		
WET DENSITY IN LBS/CU. FT.*		
WT. OF WET SOIL + DISH NO. 212		
INT. OF DRY SOIL + DISH		
WT. OF LOST MOISTURE		
WT. OF DISH ONLY	3.55	
WT. OF DRY SOIL		
MOISTURE AS % OF DRY WT.		
DRY DENSITY IN LBS/CU. FT.		

TEST INSTRUCTIONS

LOAD CYCLE			
100	200	400	
800	1600 TR	3200 TR	6400
12800 TR	25600	Rebound	x2

SPECIAL INSTRUCTION AND NOTES

Dry WT Soil + Pan + Ring: 185.30

NATURAL MOISTURE!! CON

DATE	TIME	E. LAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOL. IDATION
	0847	1	100	.0000		
	0859	12		.0000		0.0000
			200			
	0902	1		.0005		
WB	0903	2		.0006		
WB	~~0902~~					
	1021			.0017		
	1051			.0018		
		WB	400			
		~~1 WB~~		ARM WAS STUCK!		
		~~2 WB~~				
	1052		200	.0059		
	1351			.0063	.0063	.0062
			400			
	1352	1		.0071		
	1353	2		.0072		
	1523			.0080		
	1624			.0082		.0076
			800			
	1625	1		.0120		
	1626	2		.0122		
	1801			.0137		
5-25-95	736			.0151		
	0857			.0153		.0141
			1600			
	0859	.1		.0270		
		.25		.0283		
		.5		.0285		
	0900	1		.0288		
	0901	2		.0289		

DATE	TIME	E. LAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOL. IDATION
	0903	4		.0292		
	0908	9		.0294		
	0915	16		.0297		
	0929	30		.0299		
	0959	60		.0301		
	1059	120		.0306		
	1259	240		.0311		
	1659	480		.0317		
5-26-95	0817			.0327		.0306
			3200			
	0820	.1		.0422	.0422	
		.25		.0427		
		.5		.0430		
	0821	1		.0432		
	0822	2		.0436		
	0824	4		.0437		
	0829	9		.0439		
	0836	16		.0441		
	0850	30		.0443		
	0920	60		.0446		
	1020	120		.0451		
	1220	240		.0456		~~.0437~~
	~~1620~~	~~480~~	WB			
	1701	521		.0462		
5-27-95	0952			.0475		.0440

ADVANCED TERRA TESTING

531 CONTINUED ON REVERSE SIDE

SAIC/PARSONS PO140 [illegible] 474

CONSOLIDATION TEST DATA SHEET (CONTINUED) 62-122 404821 5-7' PAGE 2 OF 2

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOLIDATION
5-27-95			6400			
		.1		.0513		
		.25		.0516		
		.5		.0518		
	1023	1		.0520		
	1024	2		.0523		
	1026	4		.0526		
	1031	9		.0528		
	1038	16		.0530		
	1052	30		.0533		
	1122	60		.0536		
	1222	120		.0540		
	1422	240		.0545		
	1822	480		.0552		
5-28-95	0845			.0561		
	0953			.0562		.0512
			12800			
		.1		.0611		
		.25		.0615		
		.5		.0618		
	1001	1		.0621		
	1002	2		.0624		
	1004	4		.0627		
	1009	9		.0632		
	1016	16		.0634		
	1030	30		.0637		
	1100	60		.0641		
	1200	120		.0646		
	1400	240		.0653		
	1800	480		.0660		
5-29-95	0841			.0672		
	0947		25600	.0673		.0605
	0956	1		.0753		
	0957	2		.0757		
	1008			.0769		
	1053			.0779		
	1358			.0793		
	1752			.0803		
5-30-95	0825			.0821		
	0927			.0822		.0734
		Rebound				
			6400			
	0930	1		.0771		
	0931	2		.0770		
	1031			.0768		
	1301			.0768		.0686
			1600			
	1309	1		.0730		
	1310	2		.0729		
	1424			.0723		
5-31-95	0843			.0715		
	0859			.0715		.0649
			400			
	0900	1		.0698		
	0901	2		.0697		
	1104			.0690		

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOLIDATION
	1211		400 cont	.0689		
	1326			.0688		.0635
			100			
	1327	1		.0682		
	1328	2		.0682		
	1559			.0676		
6-01-95				.0664		
	0946			.0664		.0620

CONSOLIDATION TEST
ASTM D-2435

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13A

BORING NO.	G2-124	SAMPLED	4-12-95
DEPTH	10.0-12.0'	TEST STARTED	5-23-95 WEB
SAMPLE NO.	405004	TEST FINISHED	6-5-95 WEB
SOIL DESCR.	Fernald	CELL NUMBER	ATT-7
Note: Natural Moisture			
SAMPLE DIA.(in)	2.410	INITIAL HT.(in)	1.000

MOISTURE/DENSITY DATA	BEFORE TEST	AFTER TEST
Wt. Soil & Ring(s) (g)	203.8	193.2
Wt. Ring(s) (g)	46.3	46.3
Wt. Soil (g)	157.5	146.9
Wet Density PCF	131.5	132.8
Wt. Wet Soil & Pan (g)	165.8	155.1
Wt. Dry Soil & Pan (g)	137.2	137.2
Wt. Lost Moisture (g)	28.5	17.9
Wt. of Pan Only (g)	8.3	8.3
Wt. of Dry Soil (g)	129.0	129.0
Moisture Content %	22.1	13.9
Dry Density PCF	107.7	116.6

LOAD (PSF)	CONSOL. (IN.)
100	0.0000
200	0.0170
400	0.0226
800	0.0341
1600	0.0393
3200	0.0453
6400	0.0523
12800	0.0649
25600	0.0846
6400	0.0803
1600	0.0788
400	0.0782
100	0.0763

LOAD (PSF)	LOG p	CONSOL. (IN.)	DEFL. (IN.)	VOID RATIO e
100	2.000	0.0000	0.0000	0.5765
200	2.301	0.0170	-0.0170	0.5497
400	2.602	0.0226	-0.0226	0.5409
800	2.903	0.0341	-0.0341	0.5228
1600	3.204	0.0393	-0.0393	0.5146
3200	3.505	0.0453	-0.0453	0.5051
6400	3.806	0.0523	-0.0523	0.4941
12800	4.107	0.0649	-0.0649	0.4742
25600	4.408	0.0846	-0.0846	0.4431
6400	3.806	0.0803	-0.0803	0.4499
1600	3.204	0.0788	-0.0788	0.4523
400	2.602	0.0782	-0.0782	0.4532
100	2.000	0.0763	-0.0763	0.4562

% Saturation	104.3
Sp. Gr. (g/cc)	2.720
Init. Ht. Solids (cm)	1.611
Init. Ht. Voids (cm)	0.929
Init. Void Ratio	0.5765

Data entry by: NAA Date: 6-5-95
Data checked by: CJ Date: 8-12-95
FileName: SAC05004

ADVANCED TERRA TESTING, INC.

TIME READING DATA

G2-124
10.0-12.0'

1600 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.0361	0.0000
0.1	0.32	0.0370	-0.0009
0.3	0.50	0.0371	-0.0010
0.5	0.71	0.0372	-0.0011
1.0	1.00	0.0373	-0.0012
2.0	1.41	0.0374	-0.0013
4.0	2.00	0.0375	-0.0014
9.0	3.00	0.0376	-0.0015
16.0	4.00	0.0378	-0.0017
30.0	5.48	0.0380	-0.0019
60.0	7.75	0.0383	-0.0022
120.0	10.95	0.0387	-0.0026
240.0	15.49	0.0393	-0.0032
480.0	21.91	0.0402	-0.0041

3200 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.0425	0.0000
0.1	0.32	0.0439	-0.0014
0.3	0.50	0.0439	-0.0014
0.5	0.71	0.0441	-0.0016
1.0	1.00	0.0442	-0.0017
2.0	1.41	0.0443	-0.0018
4.0	2.00	0.0445	-0.0020
9.0	3.00	0.0447	-0.0022
16.0	4.00	0.0449	-0.0024
30.0	5.48	0.0451	-0.0026
60.0	7.75	0.0454	-0.0029
120.0	10.95	0.0459	-0.0034
240.0	15.49	0.0466	-0.0041
480.0	21.91	0.0476	-0.0051

6400 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.0500	0.0000
0.1	0.32	0.0511	-0.0011
0.3	0.50	0.0512	-0.0012
0.5	0.71	0.0513	-0.0013
1.0	1.00	0.0514	-0.0014
2.0	1.41	0.0516	-0.0016
4.0	2.00	0.0518	-0.0018
9.0	3.00	0.0521	-0.0021
16.0	4.00	0.0523	-0.0023
30.0	5.48	0.0526	-0.0026
60.0	7.75	0.0530	-0.0030
120.0	10.95	0.0535	-0.0035
240.0	15.49	0.0544	-0.0044
480.0	21.91	0.0555	-0.0055

12800 psf Load

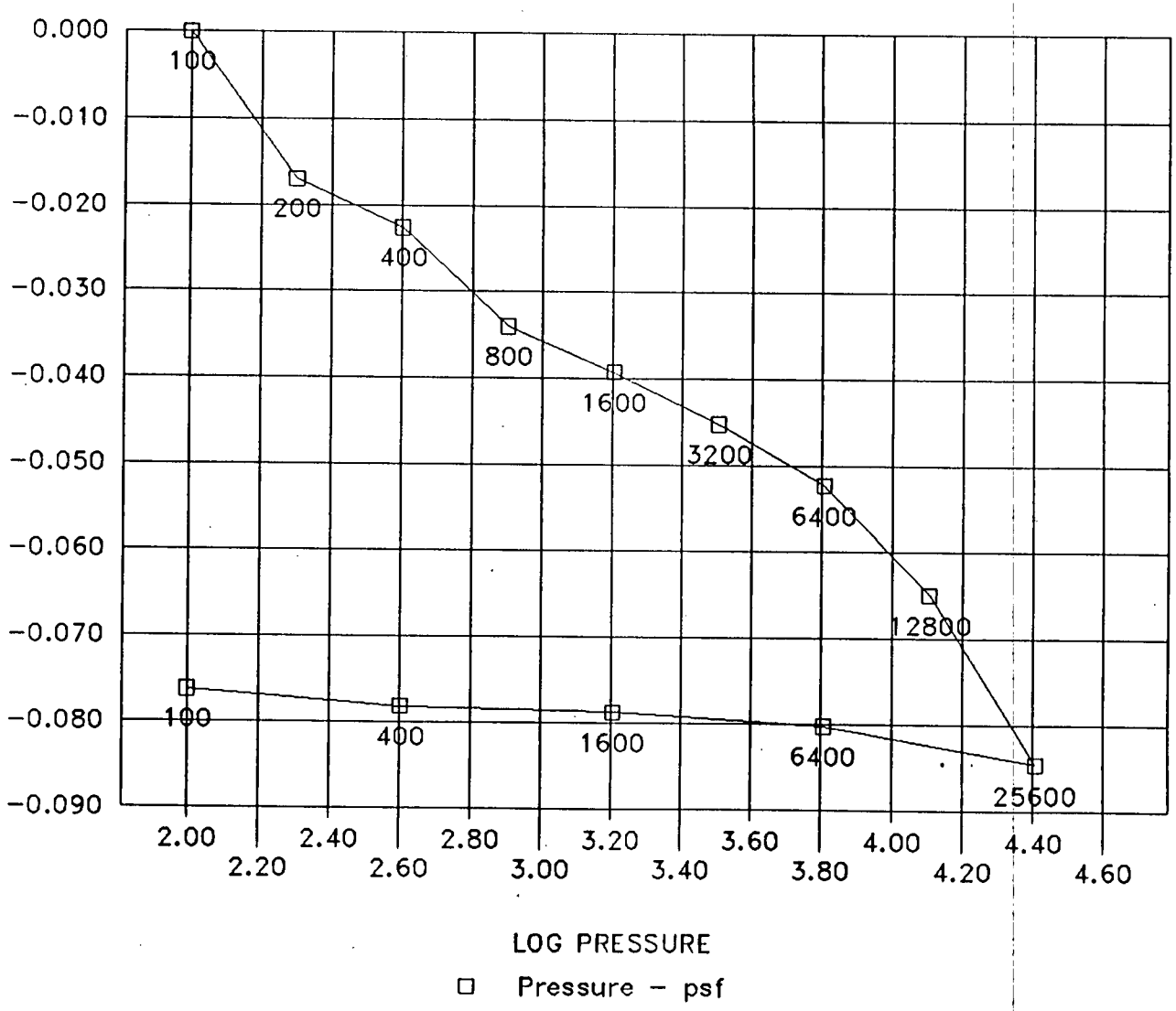
Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.0581	0.0000
0.1	0.32	0.0613	-0.0032
0.3	0.50	0.0618	-0.0037
0.5	0.71	0.0621	-0.0040
1.0	1.00	0.0625	-0.0044
2.0	1.41	0.0628	-0.0047
4.0	2.00	0.0632	-0.0051
9.0	3.00	0.0636	-0.0055
16.0	4.00	0.0639	-0.0058
30.0	5.48	0.0642	-0.0061
60.0	7.75	0.0647	-0.0066
120.0	10.95	0.0653	-0.0072
240.0	15.49	0.0664	-0.0083

Data entry by: NAA Date: 6-5-95
Data checked by: [illegible] Date: 6.7.95
FileName:SAC05004

ADVANCED TERRA TESTING, INC.

CONSOLIDATION TEST DATA

G2-124,405004,10.0-12.0'



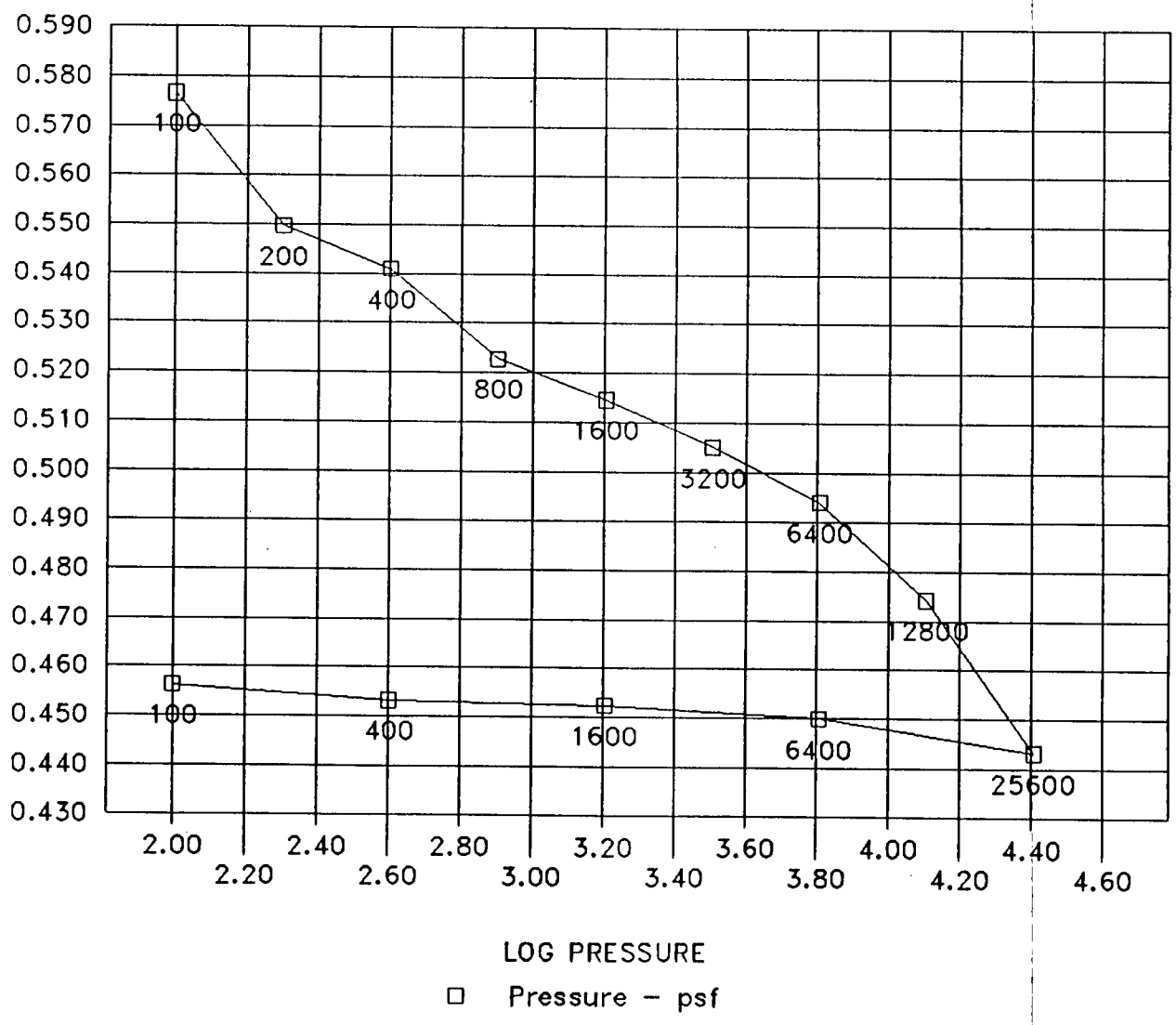
535

000001

474

CONSOLIDATION TEST DATA

G2-124,405004,10.0-12.0'



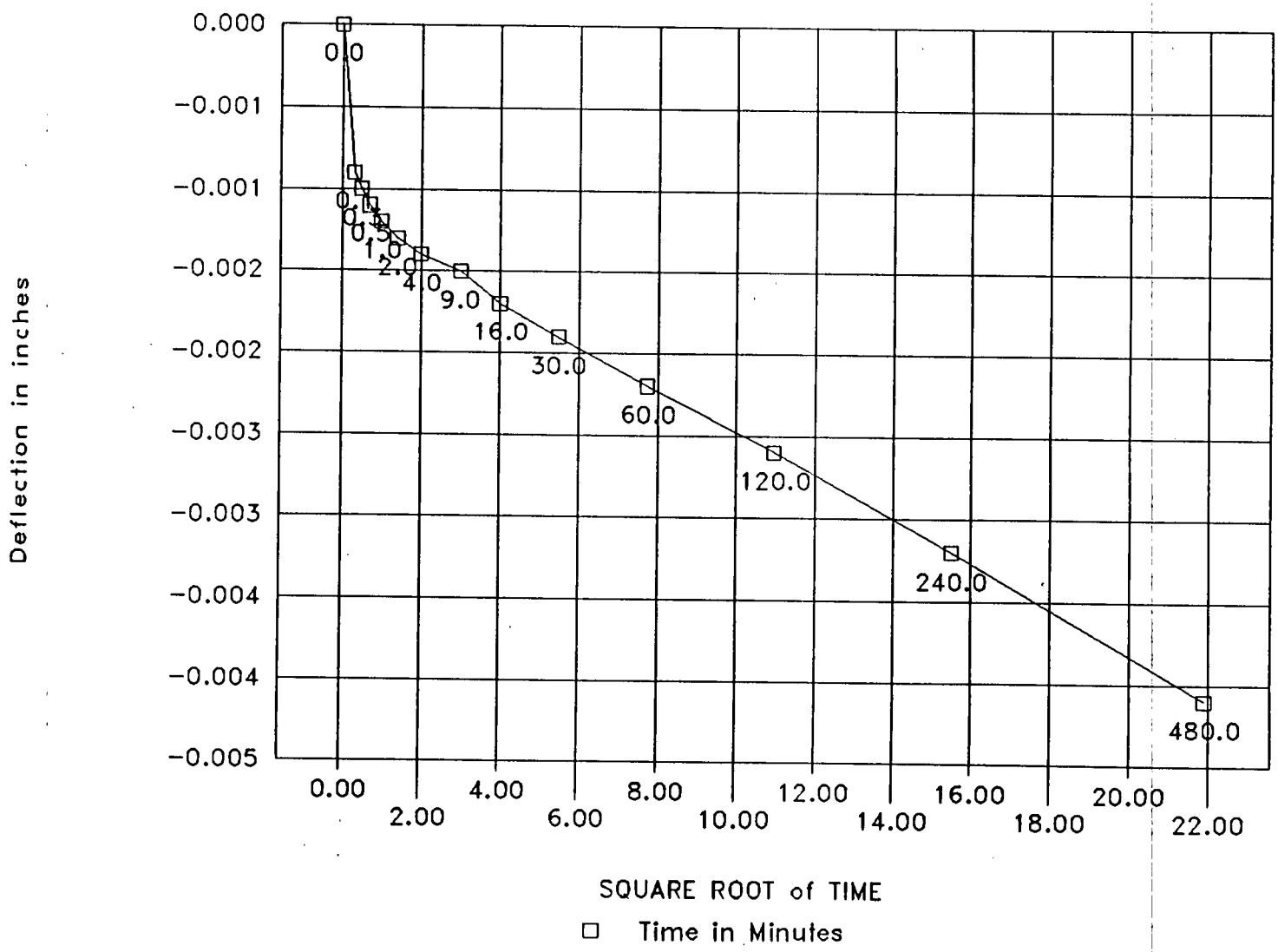
536

000602

474

TIME READING DATA

G2-124,405004,10.0-12.0',1600 psf Load



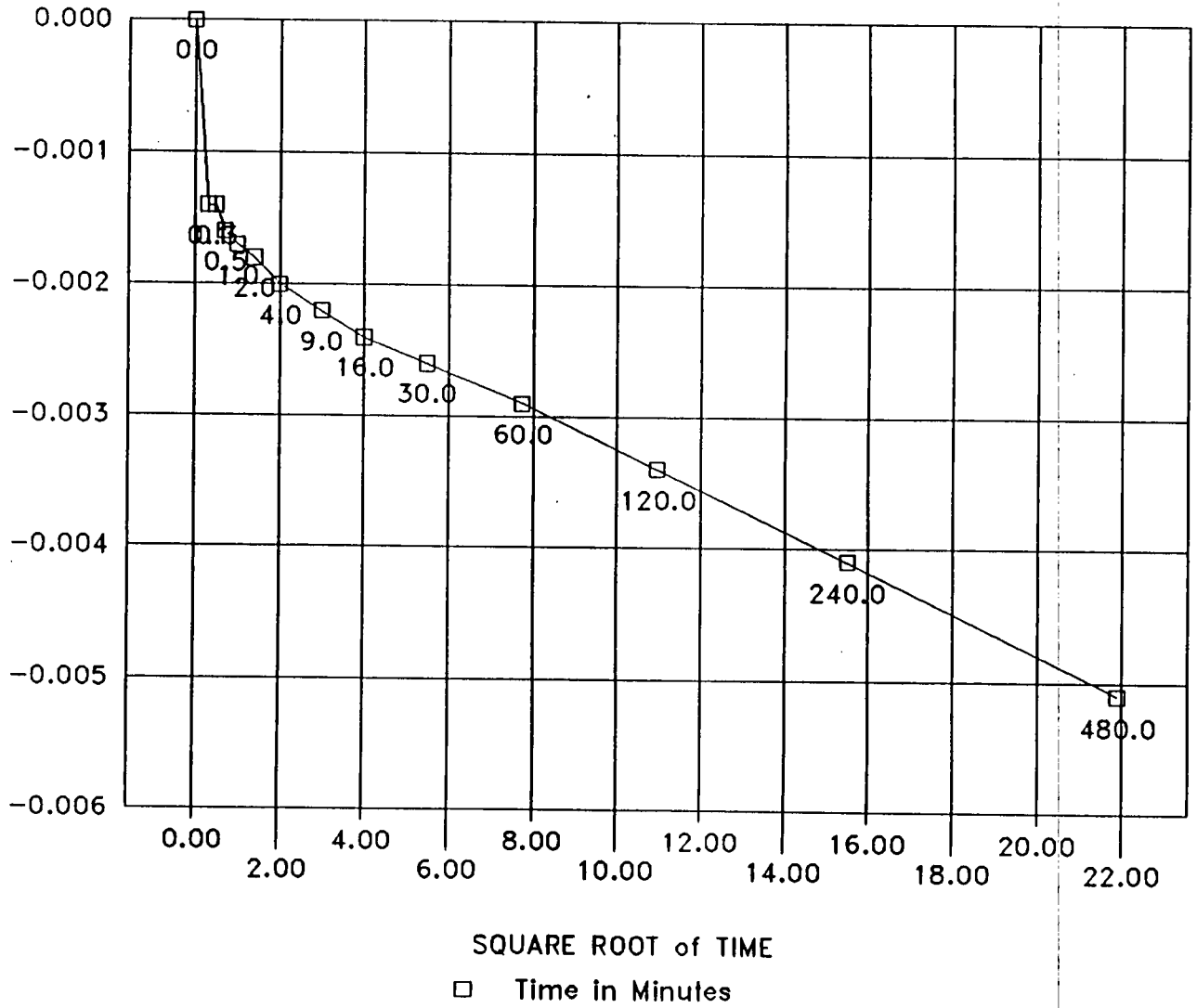
537

000603

424

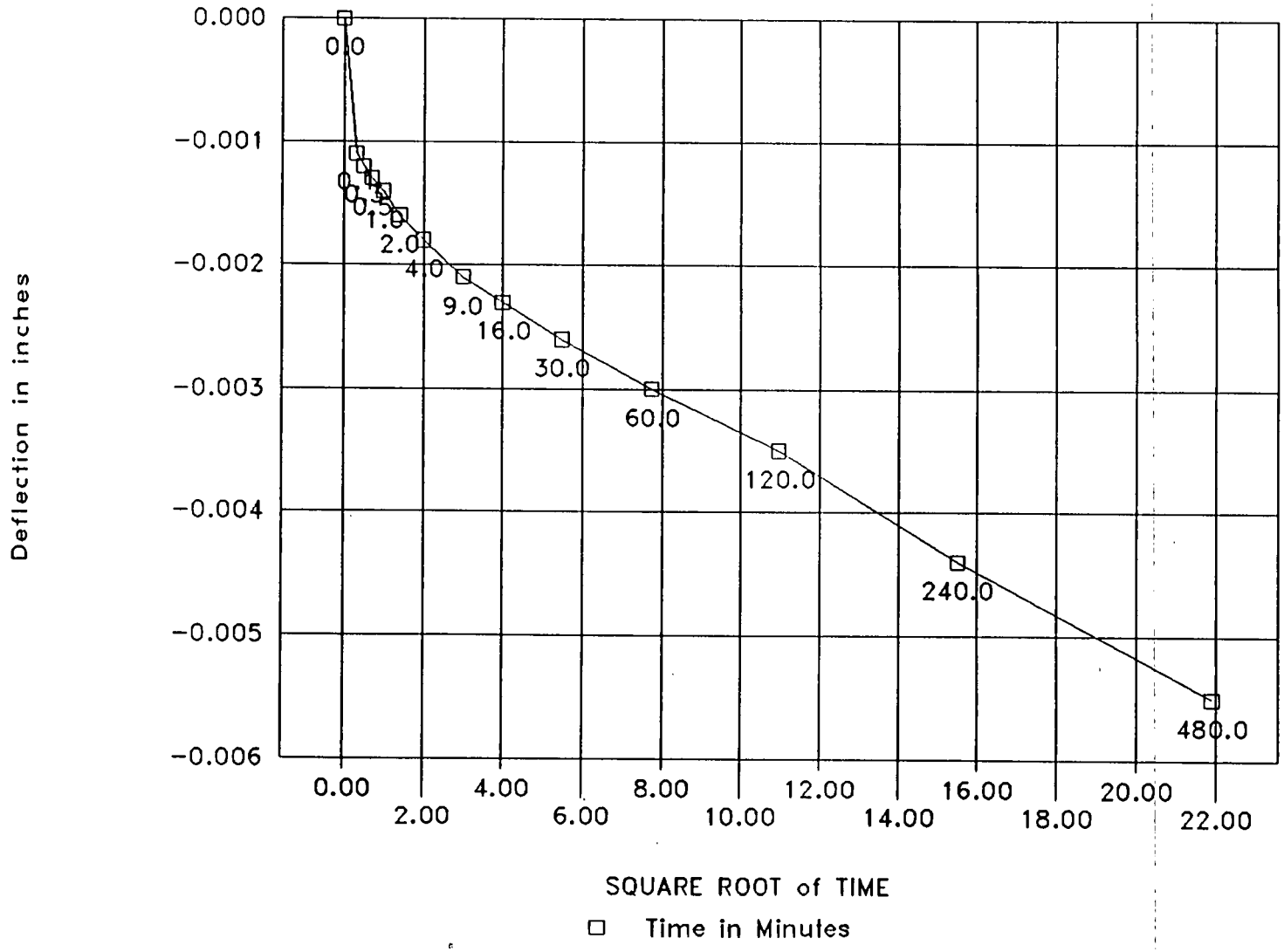
TIME READING DATA

G2-124,405004,10.0-12.0',3200 psf Load



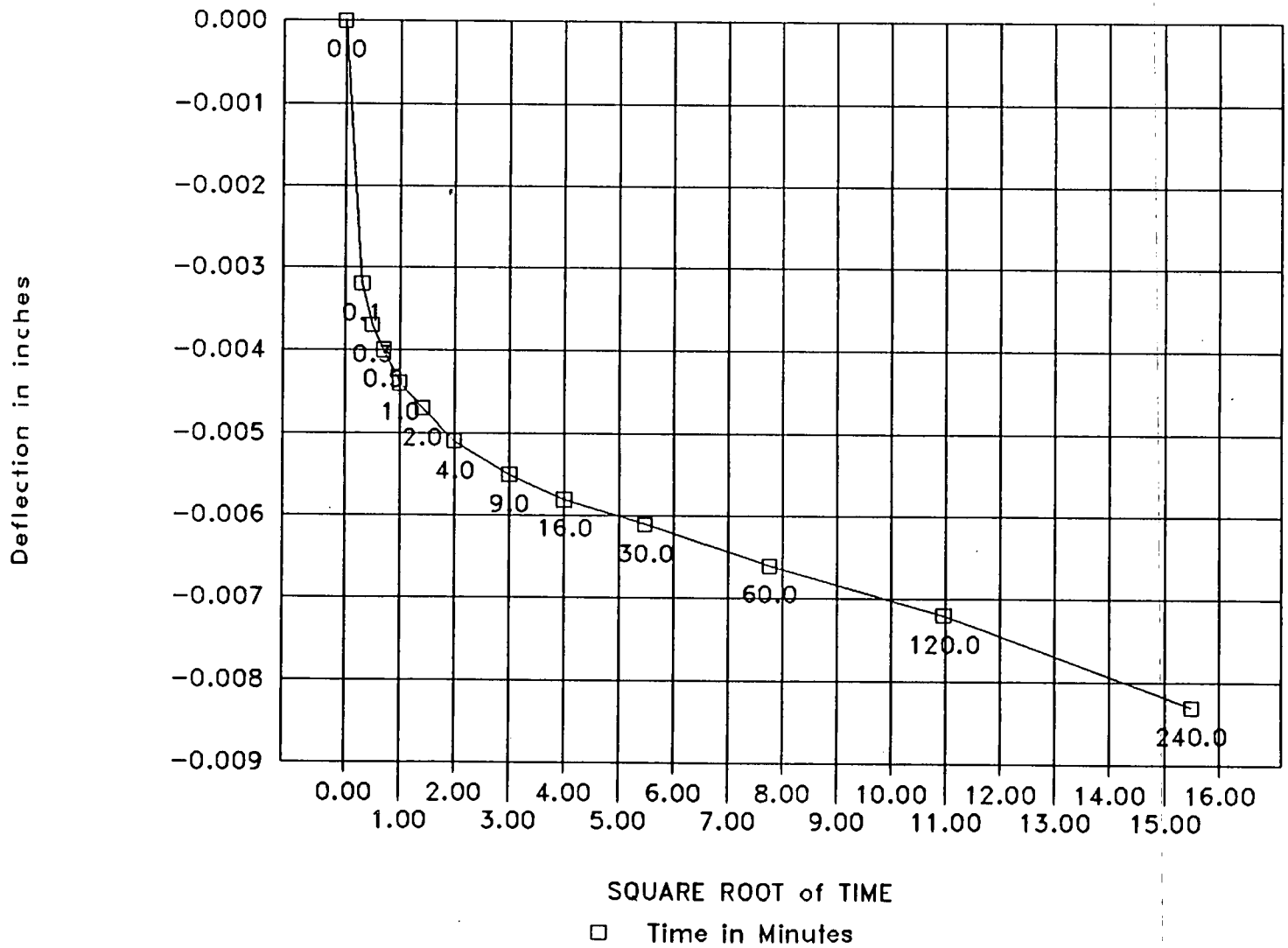
TIME READING DATA

G2-124,405004,10.0-12.0',6400 psf Load



TIME READING DATA

G2-124,405004,10.0-12.0',12800 psf Load



CONSOLIDATION TEST DATA SHEET

SAC05004 SAC15004
SACC5004 " 2 "
SACE5004 " 3 "
" 4 "

474
PAGE 1 OF 2

JOB SAIC / PARSONS PO140 JOB NO. 2059-13A
DATE SAMPLED 4-12-95 BORING NO. 62-124
TEST STARTED 5-23-95 BY WEB TEST FINISHED _____ BY _____ DEPTH 10-12'
SOIL TYPE Fernald SAMPLE 405004
CONSOLIDOMETER NO. ATT-7 INITIAL SAMPLE HEIGHT 1.00" D_o = 2.41"

MOISTURE & DENSITY DATA	BEFORE TEST	AFTER TEST
WT. OF RING(S) + SOIL	203.81	193.16
WT. OF RING(S) ONLY After test	46.31	46.31
WT. OF SOIL (NET)		
WET DENSITY IN LBS/CU. FT.*		
WT. OF WET SOIL + DISH NO. M57		
INT. OF DRY SOIL + DISH		
WT. OF LOST MOISTURE		
WT. OF DISH ONLY	8.26	
WT. OF DRY SOIL		
MOISTURE AS % OF DRY WT.		
DRY DENSITY IN LBS/CU. FT.		

TEST INSTRUCTIONS

LOAD CYCLE	100	200	400
800	1600 TR	3200 TR	6400
12800 TR	25600	Rebound x 2	

SPECIAL INSTRUCTION AND NOTES

Dry WT Soil + Pan + Ring = 183.55

Natural Moisture !! CON

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOLIDATION
			100			
	1326	1		.0001		
	1327	2		.0002		
	1336	10		.0000		0.0000
			200			
	1337	1		.0000		
	1338	2		.0003		
	1442			.0030		
	1606			.0043		
	1803			.0057		
5-24-95	0820			.0134		
	0933			.0143		
	1051			.0148		
	1354			.0160		
	1523			.0166		
	1626			.0170		
	1759			.0174		.0170
			400			
	1801	1		.0182		
	1802	2		.0184		
5-25-95	730			.0233		
	0854			.0236		.0226
			800			
	0856	1		.0247		
	0857	2		.0249		
	1059			.0264		
	1240			.0272		
	1726			.0288		
	1823			.0291		
5-26-95	0816			.0319		

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOLIDATION
	1009		800	.0324		~~.0304~~
	1117			.0326		
	1221			.0328		
	1702			.0337		
5-27-95	0951			.0361		.0341
			1600			
		.1		.0370		
		.25		.0371		
		.5		.0372		
	1018	1		.0373		
	1019	2		.0374		
	1021	4		.0375		
	1026	9		.0376		
1033	~~1029~~	16		.0378		
1047	~~1037~~	30		.0380		
	1117	60		.0383		
	1217	120		.0387		
	1417	240		.0393		
	1817	480		.0402		
5-28-95	0845			.0424		
	0952			.0425		.0393
			3200			
		.1		.0439		
		.25		.0439		
		.5		.0441		
	0956	1		.0442		
	0957	2		.0443		
	0959	4		.0445		
	1004	9		.0447		
	1011	16		.0449		

541 CONTINUED ON REVERSE SIDE

ADVANCED TERRA TESTING

SAIC/PARSONS FUTU 474

CONSOLIDATION TEST DATA SHEET (CONTINUED) 62-124 405004 10-12' PAGE 2 OF 2

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOLIDATION
5-28-95	1025	30	3200	.0451		
	1055	60		.0454		
	1155	120		.0459		
	1355	240		.0466		
	1755	480		.0476		
5-29-95	0841			.0499		
	0946			.0500		.0453
			6400			
		.1		.0511		
		.25		.0512		
		.5		.0513		
	0953	1		.0514		
	0954	2		.0516		
	0956	4		.0518		
	1001	9		.0521		
	1008	16		.0523		
	1022	30		.0526		
	1052	60		.0530		
	1152	120		.0535		
	1352	240		.0544		
	1752	480		.0555		
5-30-95	0820			.0581		.0523
			12800			
	0822	.1		.0613		
		.25		.0618		
		.5		.0621		
	0823	1		.0625		
	0824	2		.0628		
	0826	4		.0632		
	0831	9		.0636		
	0838	16		.0639		
	0852	30		.0642		
	0922	60		.0647		
	1022	120		.0653		NA
	1222	240		.0664		~~.0587~~
	1622	480				
5-31-95	0843			.0721		
	1106			.0726		.0649
			25600			
	1107	1		.0814		
	1108	2		.0821		
	1211			.0859		
	1524			.0869		
	1559			.0885		
6-01-95	810			.0942		
	0947			.0946		.0846
			6400			
	0949	1		.0902		
	0950	2		.0901		
	1050			.0897		
	1159			.0897		.0803
			1600			
	1200	1		.0881		
	1201	2		.0880		
	1335			.0872		
	1454			.0872		.0788

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOLIDATION
6-1-95			400			
	1455	1		.0862		
	1456	2		.0861		
	1603			.0856		
	1716			.0853		.0782
			100			
	1717	1		.0849		
	1718	2		.0849		
6-2-95	805			.0828		
	0926			.0828		.0763

542

000608

CONSOLIDATION TEST
ASTM D-2435

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13D

BORING NO.	G2-126	SAMPLED	4-24-95 JM
DEPTH	15.0-17.0'	TEST STARTED	5-24-95 WEB
SAMPLE NO.	404773	TEST FINISHED	6-1-95 DSR
SOIL DESCR.	Fernald	CELL NUMBER	ATT-9
Note: Natural Moisture			
SAMPLE DIA.(in)	2.410	INITIAL HT.(in)	1.000

MOISTURE/DENSITY DATA	BEFORE TEST	AFTER TEST
Wt. Soil & Ring(s) (g)	221.0	210.6
Wt. Ring(s) (g)	45.4	45.4
Wt. Soil (g)	175.6	165.2
Wet Density PCF	146.6	144.1
Wt. Wet Soil & Pan (g)	179.1	168.8
Wt. Dry Soil & Pan (g)	159.8	159.8
Wt. Lost Moisture (g)	19.3	9.0
Wt. of Pan Only (g)	3.6	3.6
Wt. of Dry Soil (g)	156.3	156.3
Moisture Content %	12.4	5.8
Dry Density PCF	130.5	136.3

LOAD (PSF)	CONSOL. (IN.)
100	0.0000
200	0.0168
400	0.0234
800	0.0291
1600	0.0323
3200	0.0348
6400	0.0368
12800	0.0409
25600	0.0455
6400	0.0428
1600	0.0420
400	0.0420
100	0.0423

LOAD (PSF)	LOG p	CONSOL. (IN.)	DEFL. (IN.)	VOID RATIO e
0				
100	2.000	0.0000	0.0000	0.2870
200	2.301	0.0168	-0.0168	0.2654
400	2.602	0.0234	-0.0234	0.2569
800	2.903	0.0291	-0.0291	0.2496
1600	3.204	0.0323	-0.0323	0.2454
3200	3.505	0.0348	-0.0348	0.2422
6400	3.806	0.0368	-0.0368	0.2397
12800	4.107	0.0409	-0.0409	0.2344
25600	4.408	0.0455	-0.0455	0.2285
6400	3.806	0.0428	-0.0428	0.2319
1600	3.204	0.0420	-0.0420	0.2330
400	2.602	0.0420	-0.0420	0.2330
100	2.000	0.0423	-0.0423	0.2326

% Saturation	115.9
Sp. Gr. (g/cc)	2.690
Init. Ht. Solids (cm)	1.974
Init. Ht. Voids (cm)	0.566
Init. Void Ratio	0.2870

Data entry by: NAA Date: 6-2-95
Data checked by: CJ Date: 8-12-95
FileName:SAC0773N

ADVANCED TERRA TESTING, INC.

TIME READING DATA

G2-126
15.0-17.0'

1600 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.0311	0.0000
0.1	0.32	0.0320	-0.0009
0.3	0.50	0.0321	-0.0010
0.5	0.71	0.0322	-0.0011
1.0	1.00	0.0322	-0.0011
2.0	1.41	0.0323	-0.0012
4.0	2.00	0.0324	-0.0013
9.0	3.00	0.0325	-0.0014
16.0	4.00	0.0326	-0.0015
30.0	5.48	0.0327	-0.0016
60.0	7.75	0.0330	-0.0019
120.0	10.95	0.0333	-0.0022
240.0	15.49	0.0338	-0.0027
480.0	21.91	0.0344	-0.0033

3200 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.0355	0.0000
0.1	0.32	0.0367	-0.0012
0.3	0.50	0.0368	-0.0013
0.5	0.71	0.0369	-0.0014
1.0	1.00	0.0370	-0.0015
2.0	1.41	0.0370	-0.0015
4.0	2.00	0.0371	-0.0016
9.0	3.00	0.0372	-0.0017
16.0	4.00	0.0373	-0.0018
30.0	5.48	0.0375	-0.0020
60.0	7.75	0.0377	-0.0022
120.0	10.95	0.0380	-0.0025
240.0	15.49	0.0383	-0.0028
480.0	21.91	0.0388	-0.0033

6400 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.0395	0.0000
0.1	0.32	0.0406	-0.0011
0.3	0.50	0.0407	-0.0012
0.5	0.71	0.0408	-0.0013
1.0	1.00	0.0409	-0.0014
2.0	1.41	0.0410	-0.0015
4.0	2.00	0.0411	-0.0016
9.0	3.00	0.0412	-0.0017
16.0	4.00	0.0414	-0.0019
30.0	5.48	0.0415	-0.0020
120.0	10.95	0.0420	-0.0025
240.0	15.49	0.0424	-0.0029
480.0	21.91	0.0428	-0.0033

12800 psf Load

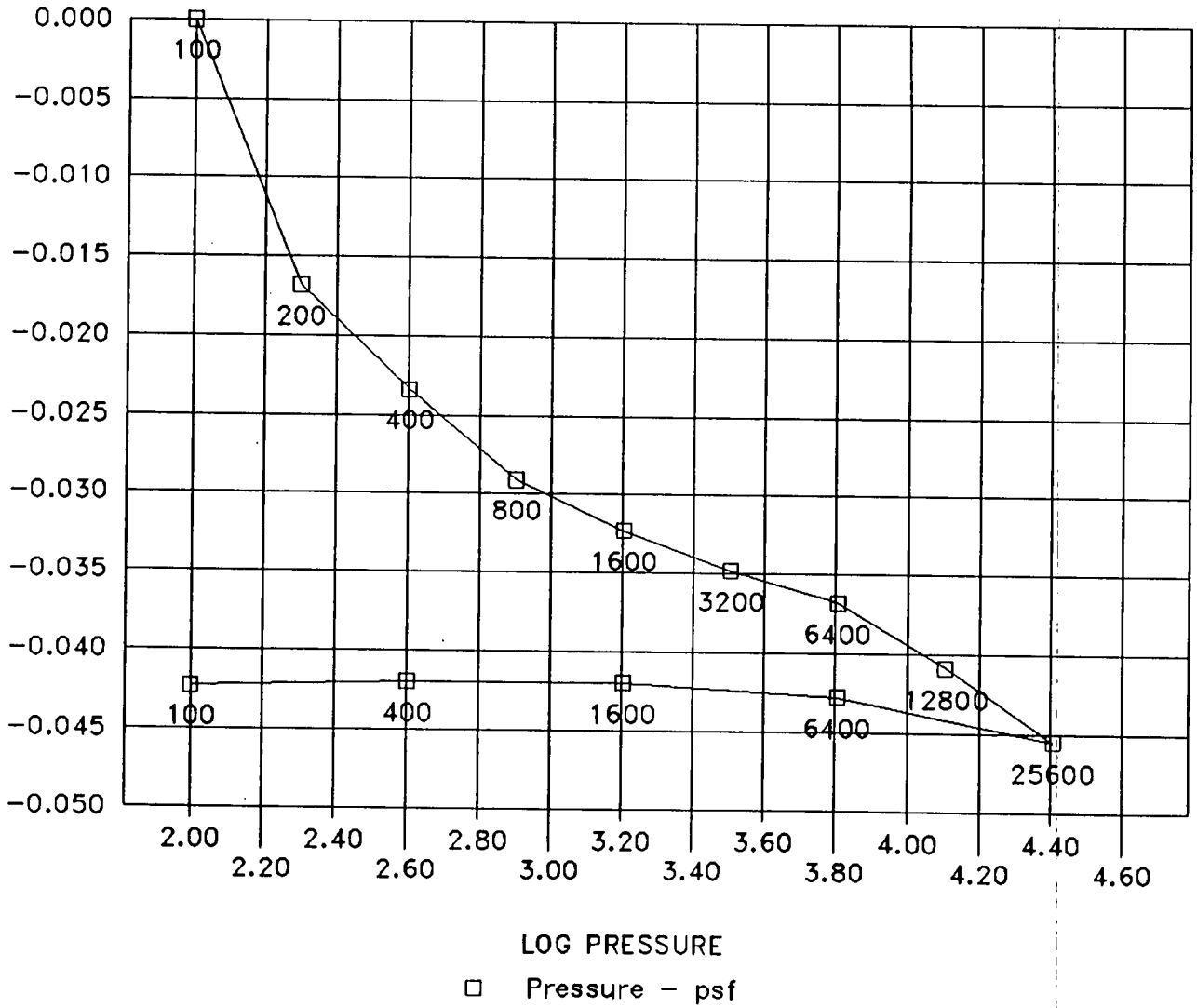
Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.0434	0.0000
0.1	0.32	0.0452	-0.0018
0.3	0.50	0.0455	-0.0021
0.5	0.71	0.0456	-0.0022
1.0	1.00	0.0458	-0.0024
2.0	1.41	0.0459	-0.0025
4.0	2.00	0.0461	-0.0027
9.0	3.00	0.0462	-0.0028
16.0	4.00	0.0464	-0.0030
30.0	5.48	0.0466	-0.0032
60.0	7.75	0.0468	-0.0034
120.0	10.95	0.0472	-0.0038
240.0	15.49	0.0476	-0.0042

Data entry by: NAA Date: 6-2-95
Data checked by: DJ Date: 6-12-95
FileName:SAC0773N

ADVANCED TERRA TESTING, INC.

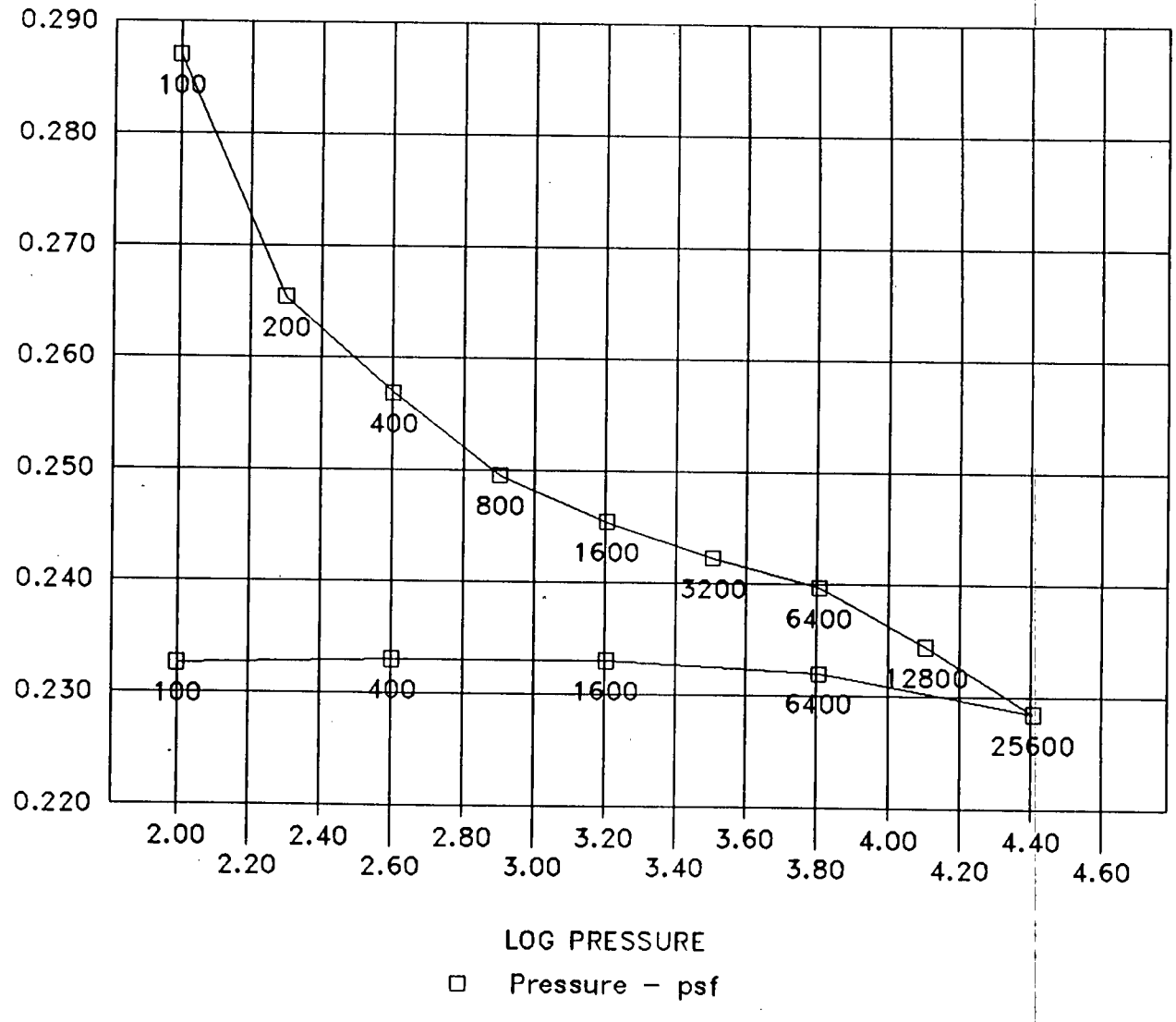
CONSOLIDATION TEST DATA

G2-126,404773,15.0-17.0'



CONSOLIDATION TEST DATA

G2-126,404773,15.0-17.0'



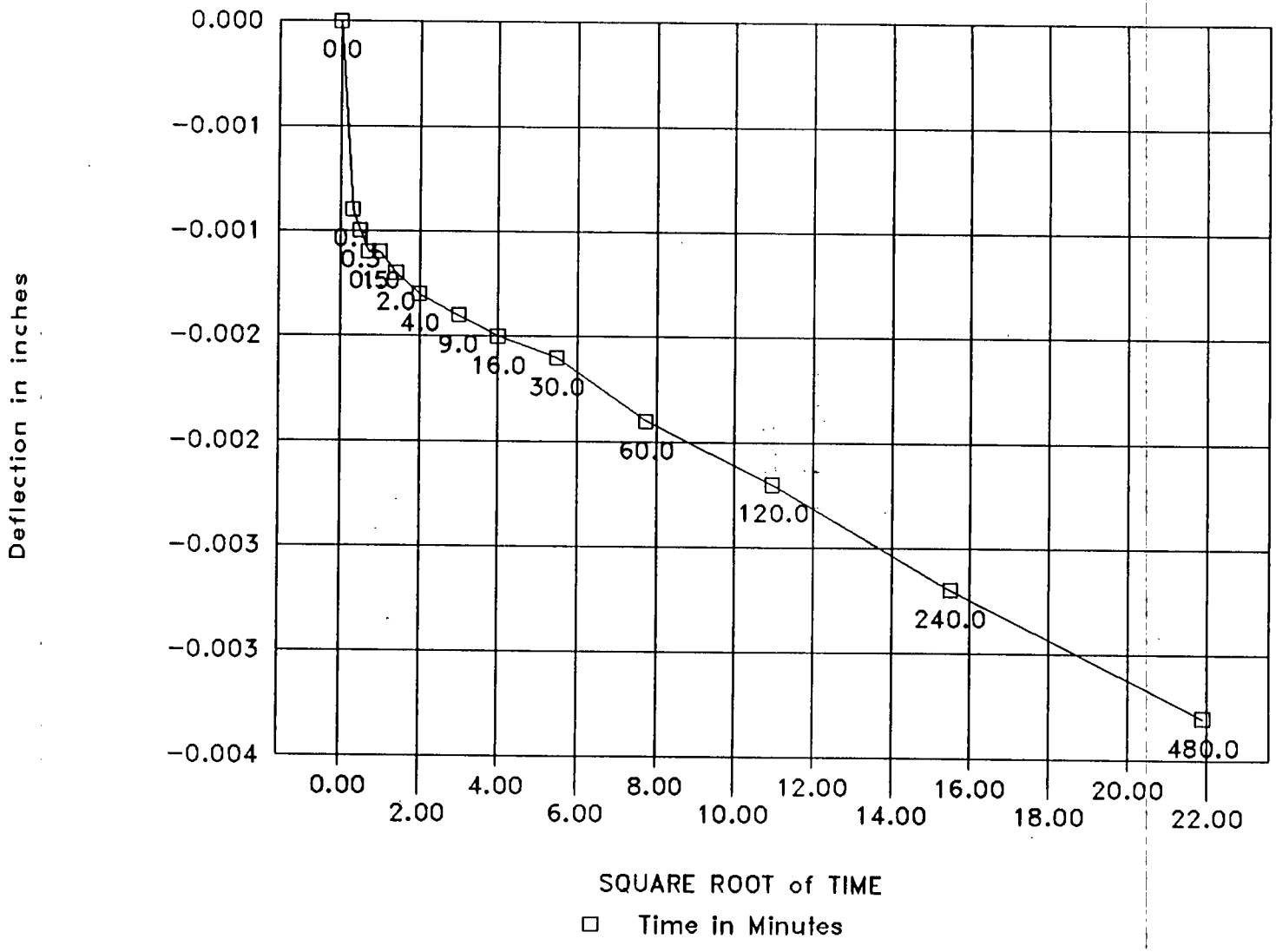
546

000612

474

TIME READING DATA

G2-126,404773,15.0-17.0',1600 psf Load



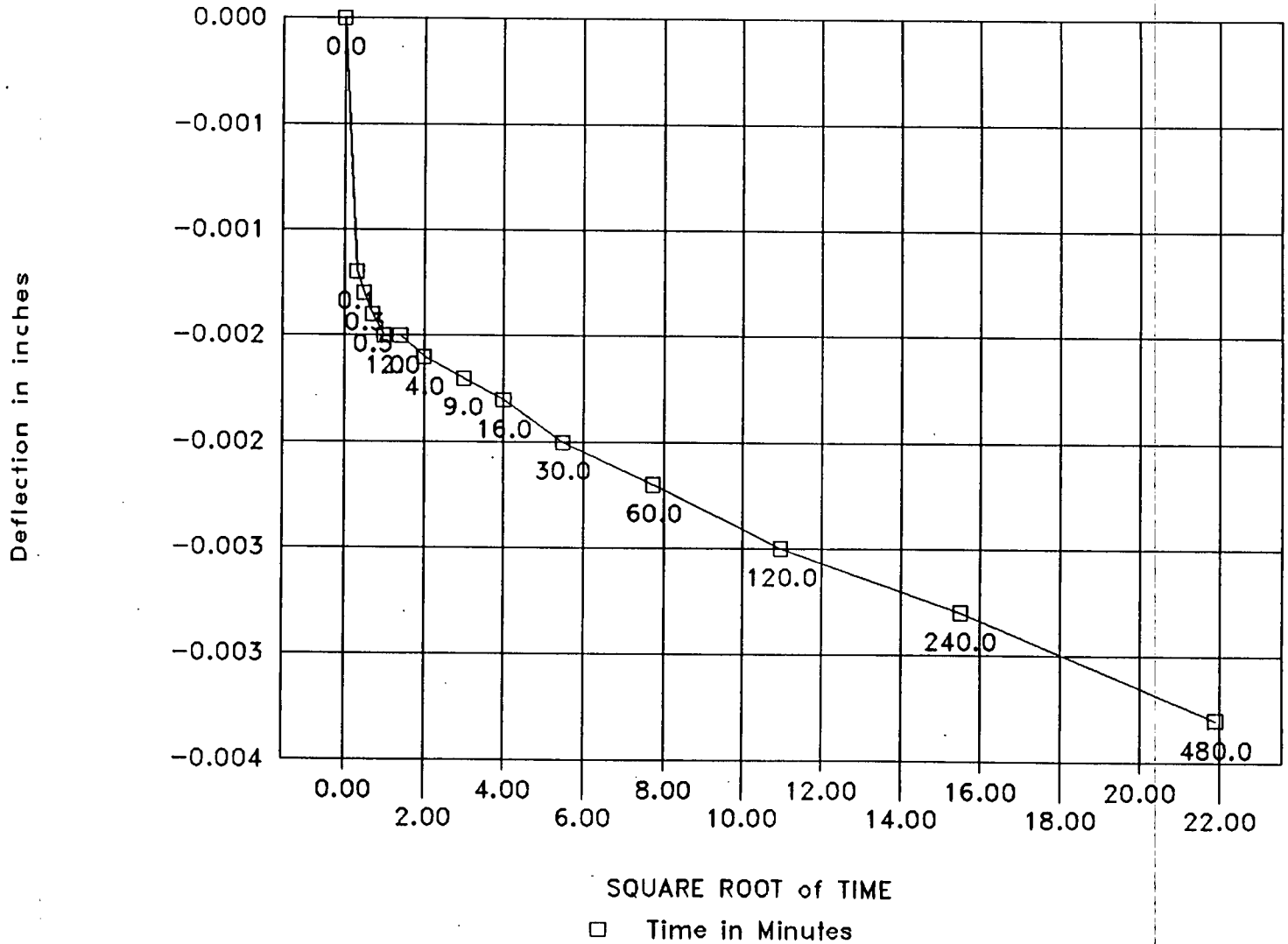
547

000613

424

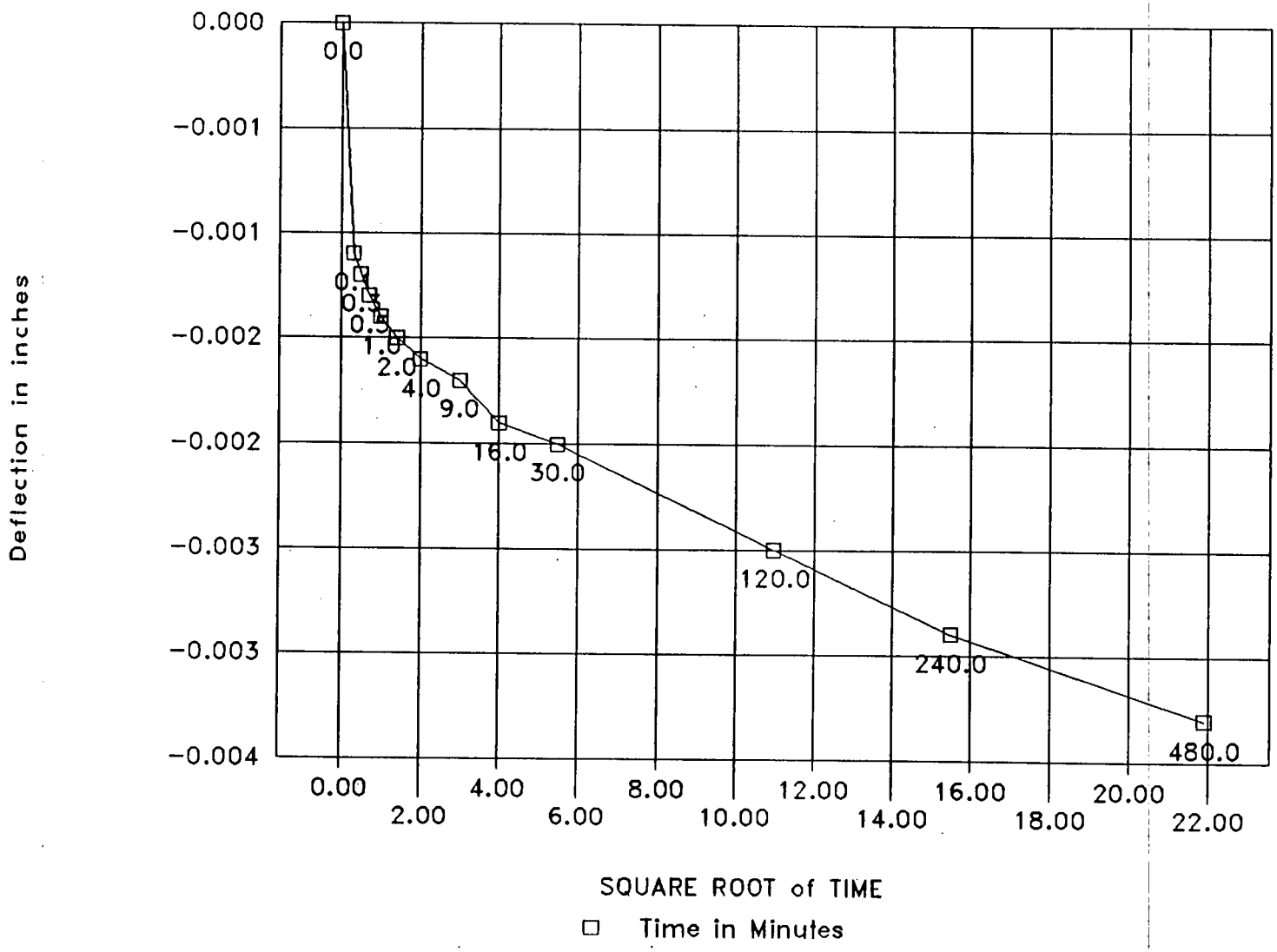
TIME READING DATA

G2-126,404773,15.0-17.0',3200 psf Load



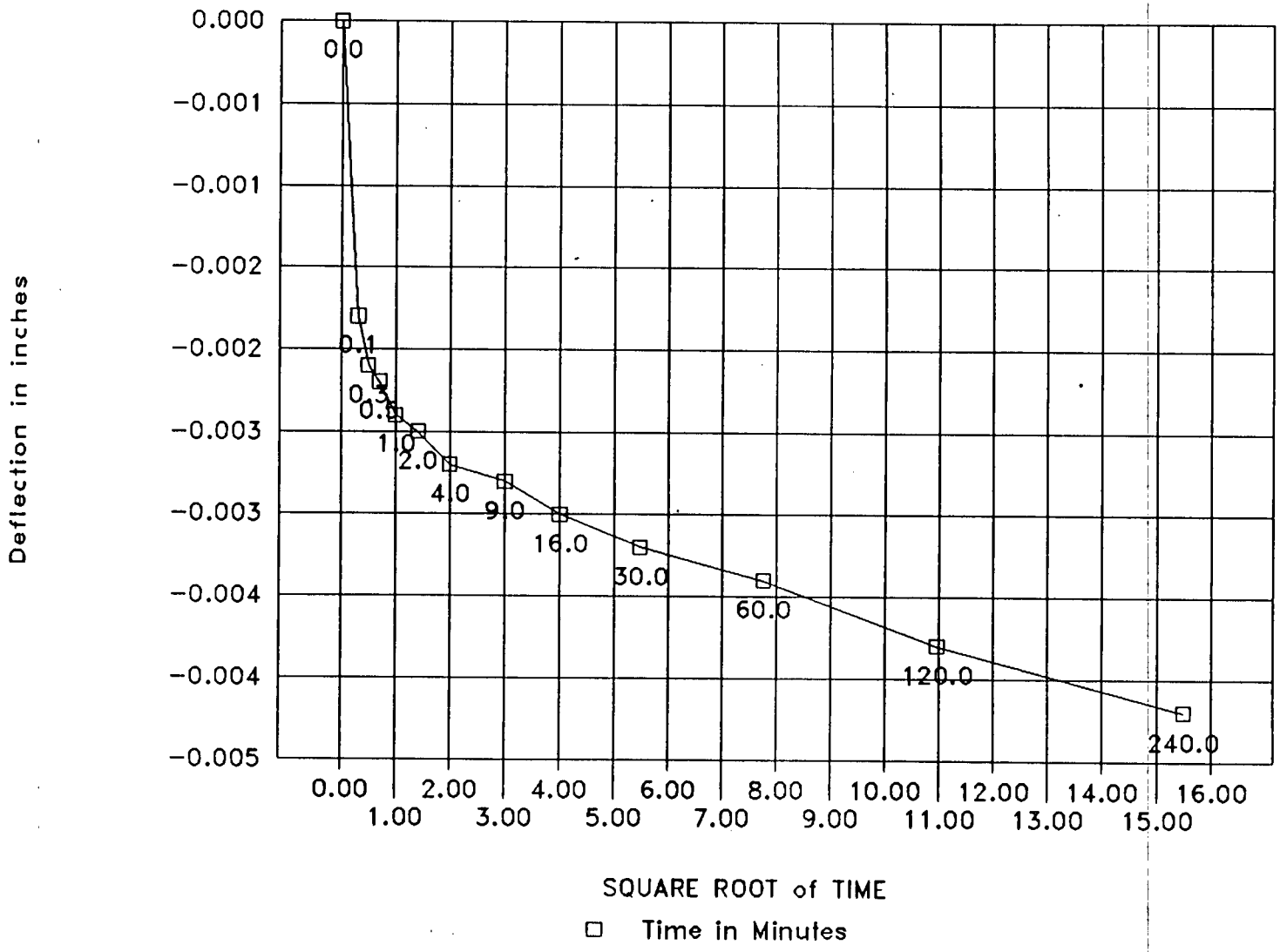
TIME READING DATA

G2-126,404773,15.0-17.0',6400 psf Load



TIME READING DATA

G2-126,404773,15.0-17.0',12800 psf Load



CONSOLIDATION TEST DATA SHEET

SAC0773N SAC2773N
SAC1773N SAC3773N
SAC4773N

JOB SAIC / PARSONS PO140 JOB NO. 2059-13D
DATE SAMPLED 4-24-95 JM BORING NO. 62-126
TEST STARTED 5-24-95 BY WEB TEST FINISHED 6-1-95 BY DSK DEPTH 15-17'
SOIL TYPE FERNALD SAMPLE 404773
CONSOLIDOMETER NO. ATT-9 INITIAL SAMPLE HEIGHT 1" D_o = 2.41"

MOISTURE & DENSITY DATA	BEFORE TEST	AFTER TEST
WT. OF RING(S)+ SOIL	220.95g	210.61
WT. OF RING(S) ONLY AFTER TEST	45.37	45.37
WT. OF SOIL (NET)		
WET DENSITY IN LBS/CU. FT.*		
WT. OF WET SOIL + DISH NO. 23B		
INT. OF DRY SOIL + DISH		
WT. OF LOST MOISTURE		
WT. OF DISH ONLY	3.57	
WT. OF DRY SOIL		
MOISTURE AS % OF DRY WT.		
DRY DENSITY IN LBS/CU. FT.		

TEST INSTRUCTIONS

LOAD CYCLE	100	200	400
800	1600 TR	3200 TR	6400
12800 TR	25600	Rebound x 2	

SPECIAL INSTRUCTION AND NOTES

Dry WT Soil + Ring + Pan = 205.19

NATURAL MOISTURE!! LOW

SG ~ 2.69

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOLIDATION
	0912	1	100	.0000		
	0922	10		.0000		.0000
			200			
	0928	1		.0009		
	0929	2		.0012		
	1053			.0061		
	1350			.0090		
	1522			.0102		
	1624			.0110		
	1801			.0122		
5-25-95	737			.0176		
	0849			.0173		.0168
			400			
	0853	1		.0179		
	0854	2		.0179		
	1059			.0191		
	1241			.0198		
	1725			.0211		
	1823			.0214		
5-26-95	0820			.0242		
	1010			.0246		.0234
			800			
	1011			.0254		
	1012			.0254		
	1017			.0263		
	1221			.0267		
	1703			.0281		
5-27-95	0952			.0311		.0291

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOLIDATION
5-27-95			1600			
		.1		.0320		
		.25		.0321		
		.5		.0322		
	1028	1		.0322		
	1029	2		.0323		
	1031	4		.0324		
	1036	9		.0325		
	1043	16		.0326		
	1057	30		.0327		
	1127	60		.0330		
	1227	120		.0333		
	1427	240		.0338		
	1827	480		.0344		
5-28-95	0845			.0354		
	0957			.0355		.0323
			3200			
		.1		.0367		
		.25		.0368		
		.5		.0369		
	1006	1		.0370		
	1007	2		.0370		
	1009	4		.0371		
	1014	9		.0372		
	1021	16		.0373		
	1035	30		.0375		
	1105	60		.0377		
	1205	120		.0380		
	1405	240		.0383		
	1805	480		.0388		

ADVANCED TERRA TESTING

 CONTINUED ON REVERSE SIDE

SHIC / PARSONS TOIHU
FEDNALD
G2-126
404773 15-17'

CONSOLIDATION TEST DATA SHEET (CONTINUED)

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOLIDATION
5-29-95	0840		3200	.0395		
	0947			.0395		.0348
			6400			
		.1		.0406		
		.25		.0407		
		.5		.0408		
	0958	1		.0409		
	0959	2		.0410		
	1001	4		.0411		
	1006	9		.0412		
	1013	16		.0414		
	1027	30		.0415		
	1057	60		~~.0420~~		
	1157	120		.0420		
	1357	240		.0424		
	1757	480		.0428		
5-30-95	0825			.0434		.0368
			12800			
	0827	.1		.0452		
		.25		.0455		
		.5		.0456		
	0828	1		.0458		
	0829	2		.0459		
	0831	4		.0461		
	0836	9		.0462		
	0843	16		.0464		
	0857	30		.0466		
0927	~~0957~~	60		.0468		
1027	~~1057~~	120		.0472		
1227	~~1257~~	240		.0476		~~.0394~~
1627	~~1657~~	480				
~~5-31-95~~	0844			.0491		.0409
			25600			
	0845	1		.0533		
	0846	2		.0535		
	1104			.0554		
	1210			.0558		
	1323			.0560		.0455
		Released				
			6400			
	1324	1		.0529		
	1325	2		.0528		
	1559			.0526		.0428
			1600			
	1600	1		.0509		
	1601	2		.0508		
6-01-95	810			.0500		
	0942			.0501		.0420
			400			
	0944	1		.0493		
	0945	2		.0492		
	1050			.0490		.0420
			100			
	1051	1		.0489		
	1052	2		.0489		
	1158			.0486		.0423

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOLIDATION

CONSOLIDATION TEST
ASTM D-2435

CLIENT SAIC/Parsons PO 140 JOB NO. 2059-13D

BORING NO.	G2-126	SAMPLED	4-24-95 JM
DEPTH	35.0-37.0'	TEST STARTED	6-1-95 DSR
SAMPLE NO.	404783	TEST FINISHED	6-9-95 DSR
SOIL DESCR.	Fernald	CELL NUMBER	ATT-17
Note: Natural Moisture			
SAMPLE DIA.(in)	2.410	INITIAL HT.(in)	1.000

MOISTURE/DENSITY DATA	BEFORE TEST	AFTER TEST
Wt. Soil & Ring(s) (g)	217.9	205.4
Wt. Ring(s) (g)	46.1	46.1
Wt. Soil (g)	171.8	159.3
Wet Density PCF	143.5	135.9
Wt. Wet Soil & Pan (g)	175.6	163.1
Wt. Dry Soil & Pan (g)	156.8	156.8
Wt. Lost Moisture (g)	18.8	6.3
Wt. of Pan Only (g)	3.8	3.8
Wt. of Dry Soil (g)	153.0	153.0
Moisture Content %	12.3	4.1
Dry Density PCF	127.8	130.5

LOAD (PSF)	CONSOL. (IN.)
100	0.0000
200	0.0138
400	0.0201
800	0.0243
1600	0.0250
3200	0.0270
6400	0.0284
12800	0.0307
25600	0.0335
6400	0.0210
1600	0.0214
400	0.0213
100	0.0211

LOAD (PSF)	LOG p	CONSOL. (IN.)	DEFL. (IN.)	VOID RATIO e
100	2.000	0.0000	0.0000	0.3387
200	2.301	0.0138	-0.0138	0.3202
400	2.602	0.0201	-0.0201	0.3118
800	2.903	0.0243	-0.0243	0.3062
1600	3.204	0.0250	-0.0250	0.3052
3200	3.505	0.0270	-0.0270	0.3026
6400	3.806	0.0284	-0.0284	0.3007
12800	4.107	0.0307	-0.0307	0.2976
25600	4.408	0.0335	-0.0335	0.2939
6400	3.806	0.0210	-0.0210	0.3106
1600	3.204	0.0214	-0.0214	0.3101
400	2.602	0.0213	-0.0213	0.3102
100	2.000	0.0211	-0.0211	0.3105

% Saturation	99.3
Sp. Gr. (g/cc)	2.740
Init. Ht. Solids (cm)	1.897
Init. Ht. Voids (cm)	0.643
Init. Void Ratio	0.3387

Data entry by: NAA Date: 6-14-95
Data checked by: CJ Date: 8-7-95
FileName:SAC0783

ADVANCED TERRA TESTING, INC.

TIME READING DATA

G2-126
35.0-37.0'

1600 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.0389	0.0000
0.1	0.32	0.0396	-0.0007
0.3	0.50	0.0396	-0.0007
0.5	0.71	0.0397	-0.0008
1.0	1.00	0.0397	-0.0008
2.0	1.41	0.0398	-0.0009
4.0	2.00	0.0398	-0.0009
9.0	3.00	0.0398	-0.0009
16.0	4.00	0.0400	-0.0011
60.0	7.75	0.0402	-0.0013
120.0	10.95	0.0404	-0.0015
240.0	15.49	0.0406	-0.0017
480.0	21.91	0.0409	-0.0020

3200 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.0413	0.0000
0.1	0.32	0.0426	-0.0013
0.3	0.50	0.0426	-0.0013
0.5	0.71	0.0427	-0.0014
1.0	1.00	0.0428	-0.0015
2.0	1.41	0.0428	-0.0015
4.0	2.00	0.0429	-0.0016
9.0	3.00	0.0430	-0.0017
16.0	4.00	0.0431	-0.0018
30.0	5.48	0.0432	-0.0019
60.0	7.75	0.0434	-0.0021
120.0	10.95	0.0436	-0.0023
240.0	15.49	0.0439	-0.0026
480.0	21.91	0.0443	-0.0030

6400 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.0446	0.0000
0.1	0.32	0.0460	-0.0014
0.3	0.50	0.0461	-0.0015
0.5	0.71	0.0462	-0.0016
1.0	1.00	0.0462	-0.0016
2.0	1.41	0.0463	-0.0017
4.0	2.00	0.0464	-0.0018
9.0	3.00	0.0465	-0.0019
16.0	4.00	0.0466	-0.0020
30.0	5.48	0.0468	-0.0022
60.0	7.75	0.0468	-0.0022
120.0	10.95	0.0470	-0.0024
240.0	15.49	0.0474	-0.0028
480.0	21.91	0.0476	-0.0030

12800 psf Load

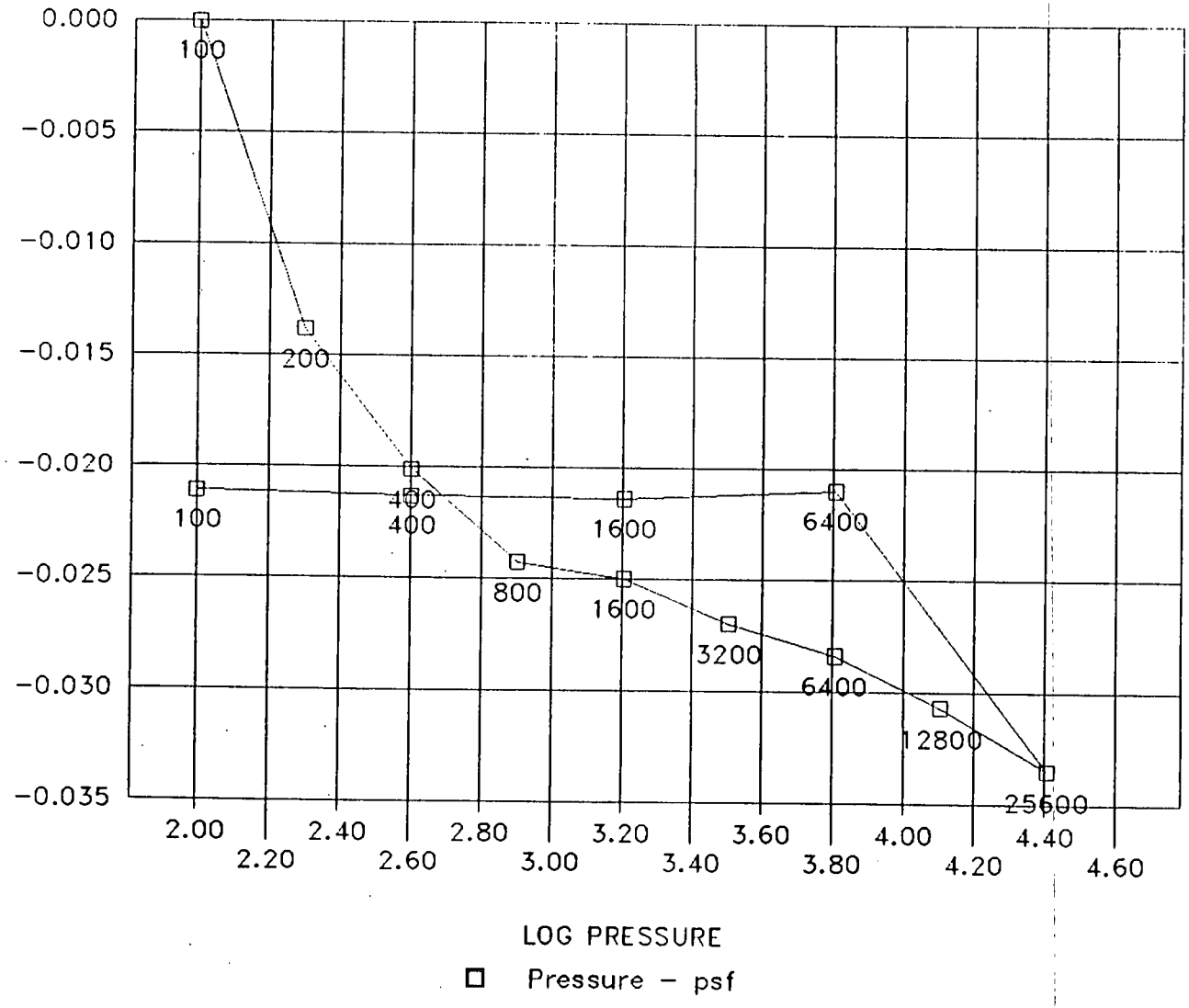
Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.0478	0.0000
0.1	0.32	0.0504	-0.0026
0.3	0.50	0.0505	-0.0027
0.5	0.71	0.0506	-0.0028
1.0	1.00	0.0508	-0.0030
2.0	1.41	0.0509	-0.0031
4.0	2.00	0.0510	-0.0032
9.0	3.00	0.0512	-0.0034
16.0	4.00	0.0513	-0.0035
30.0	5.48	0.0514	-0.0036
60.0	7.75	0.0515	-0.0037
120.0	10.95	0.0517	-0.0039
240.0	15.49	0.0520	-0.0042
480.0	21.91	0.0523	-0.0045

Data entry by: NAA Date: 6-14-95
Data checked by: DSR Date: 6-15-95
FileName:SAC0783

ADVANCED TERRA TESTING, INC.

CONSOLIDATION TEST DATA

G2-126,404783,35.0-37.0'



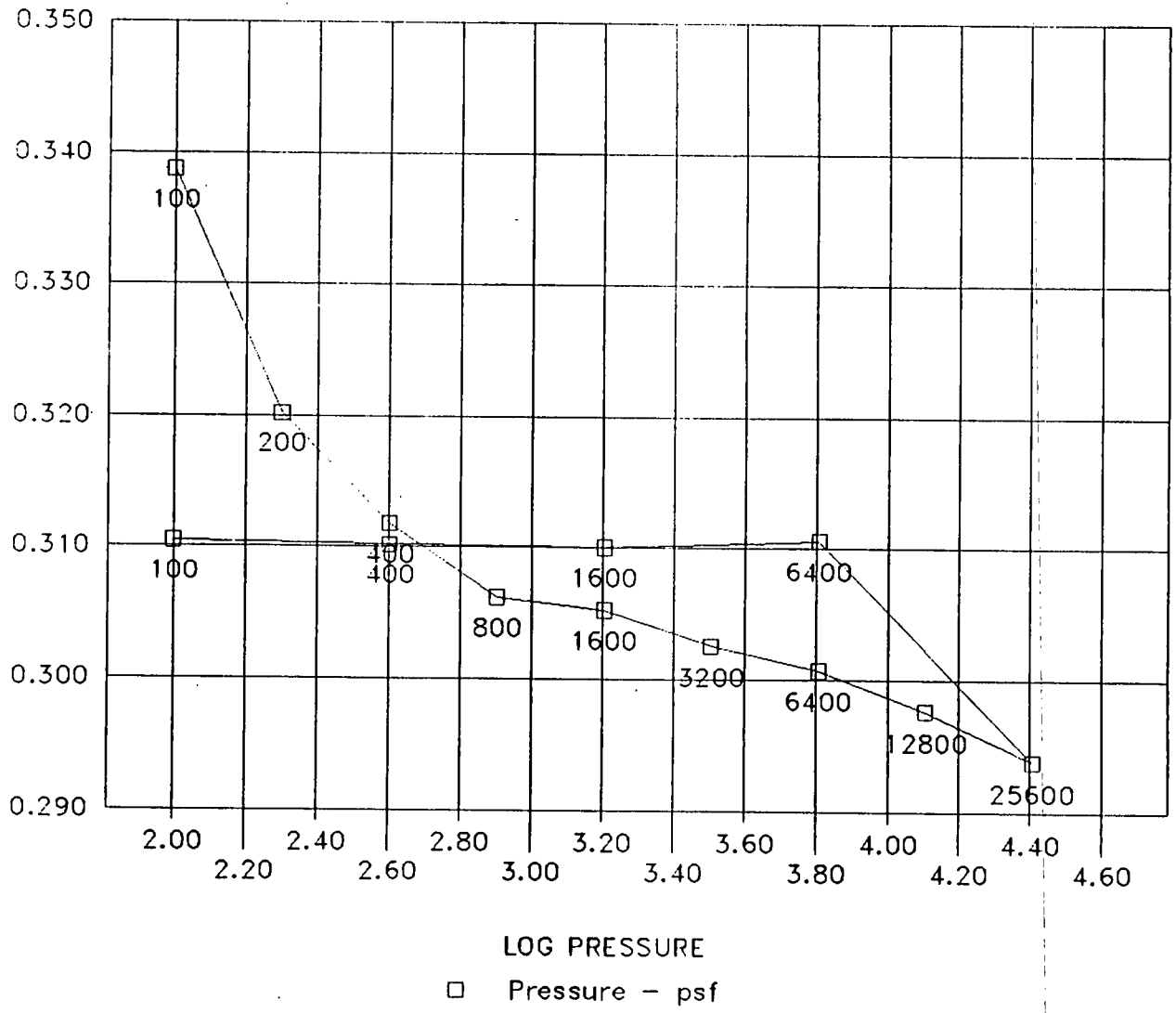
555

000621

474

CONSOLIDATION TEST DATA

G2-126,404783,35.0-37.0'



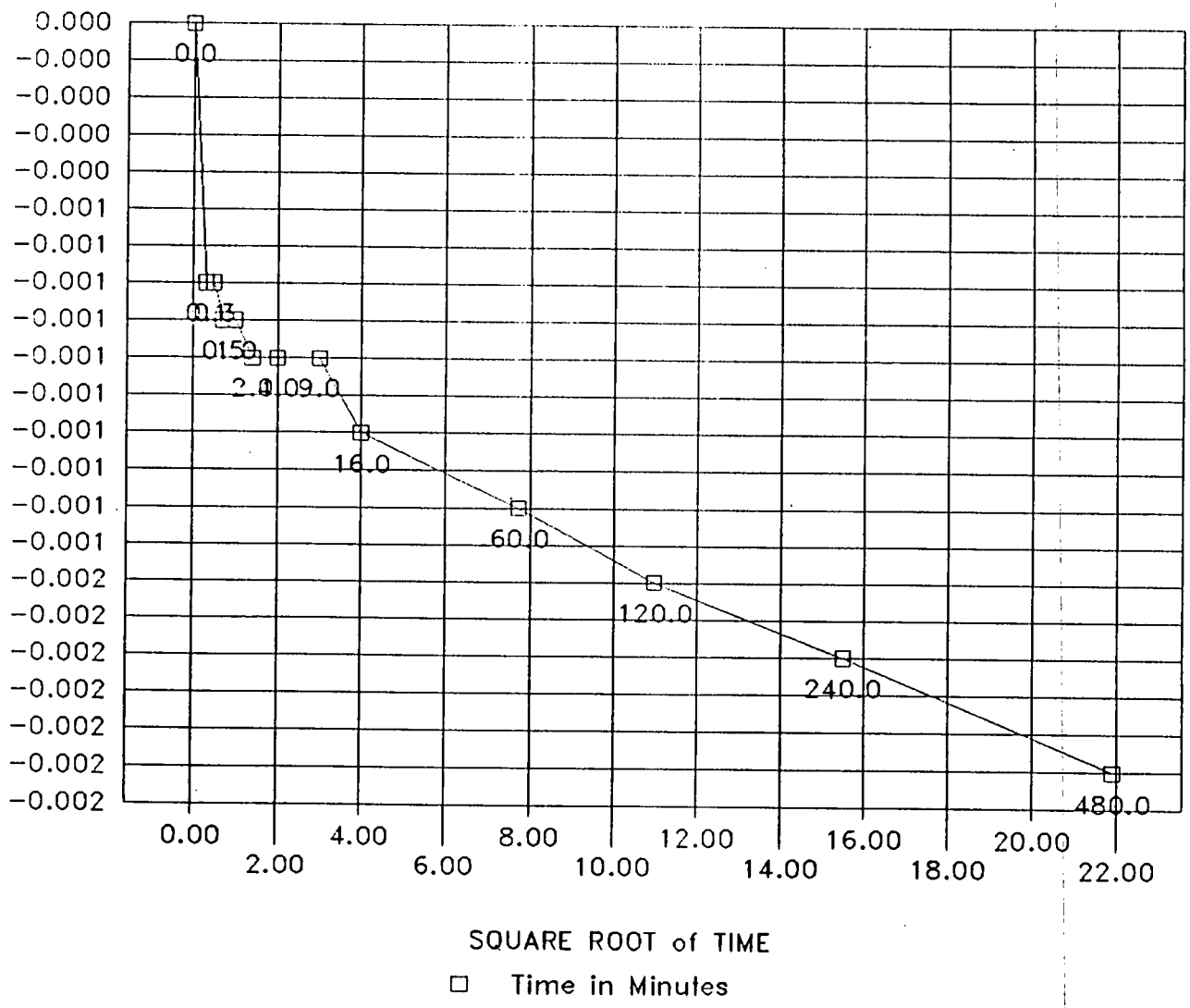
556

0006622

474

TIME READING DATA

G2-126,404783,35.0-37.0',1600 psf Load



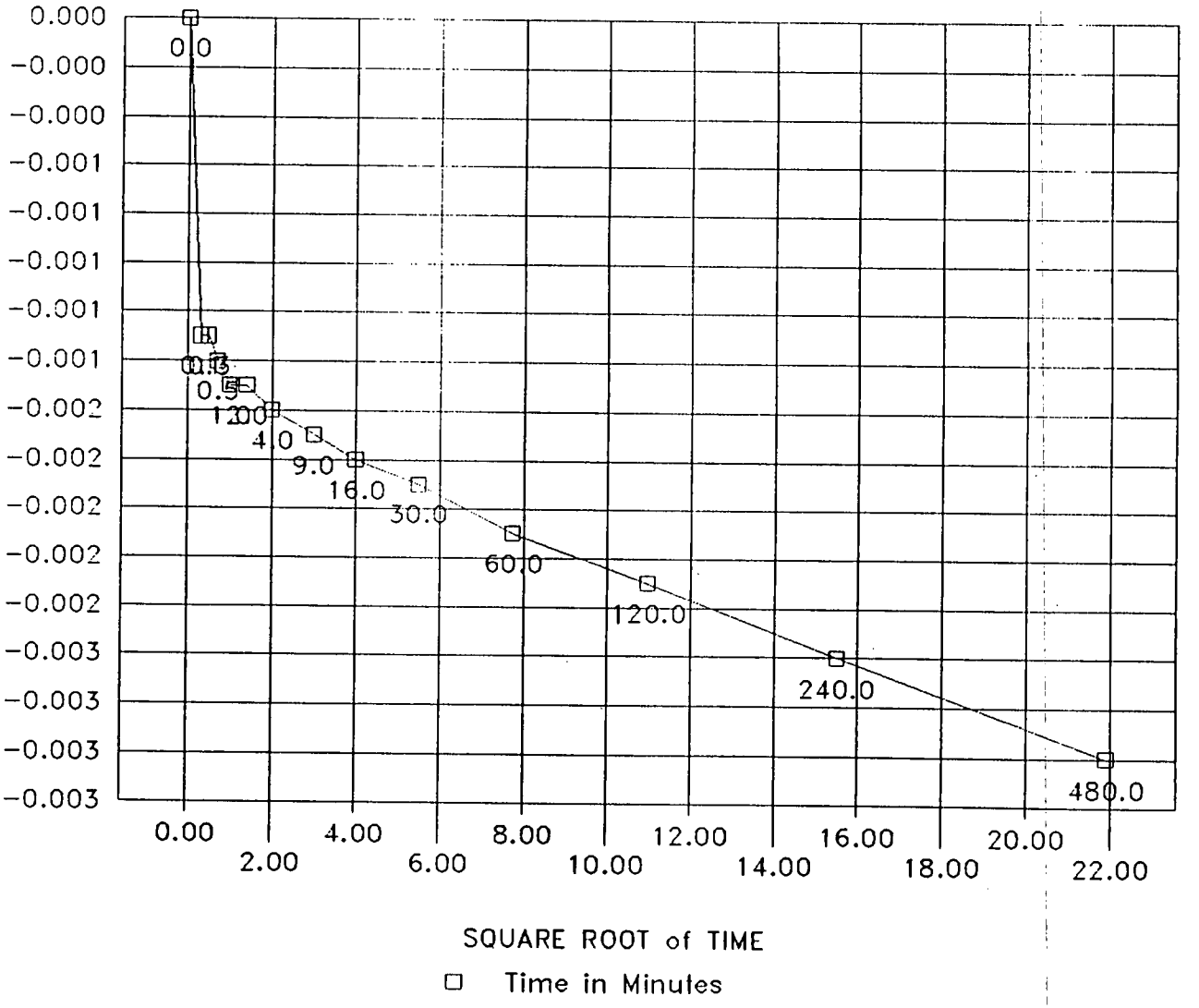
557

000623

474

TIME READING DATA

G2-126,404783,35.0-37.0',3200 psf Load



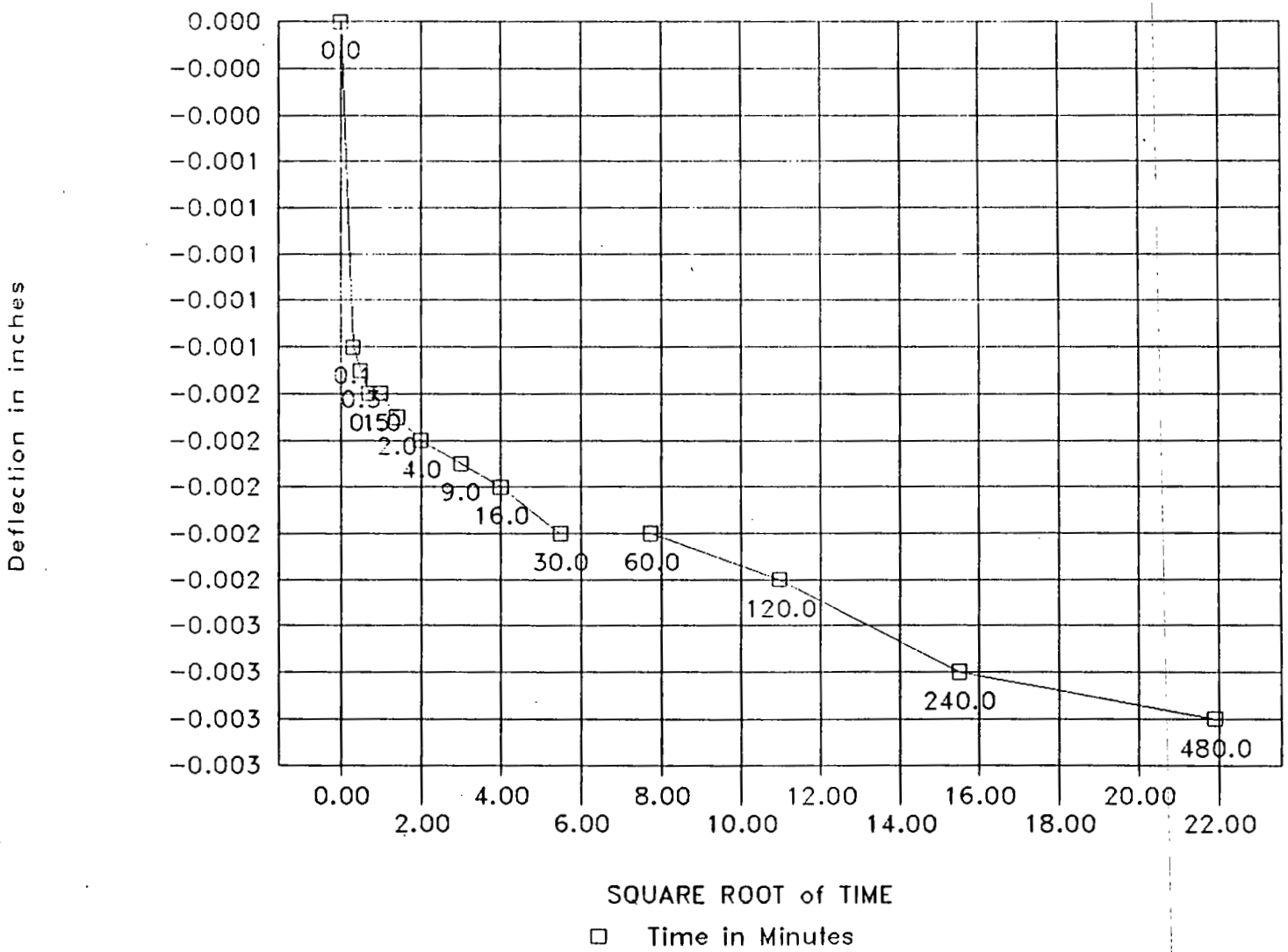
558

0006224

474

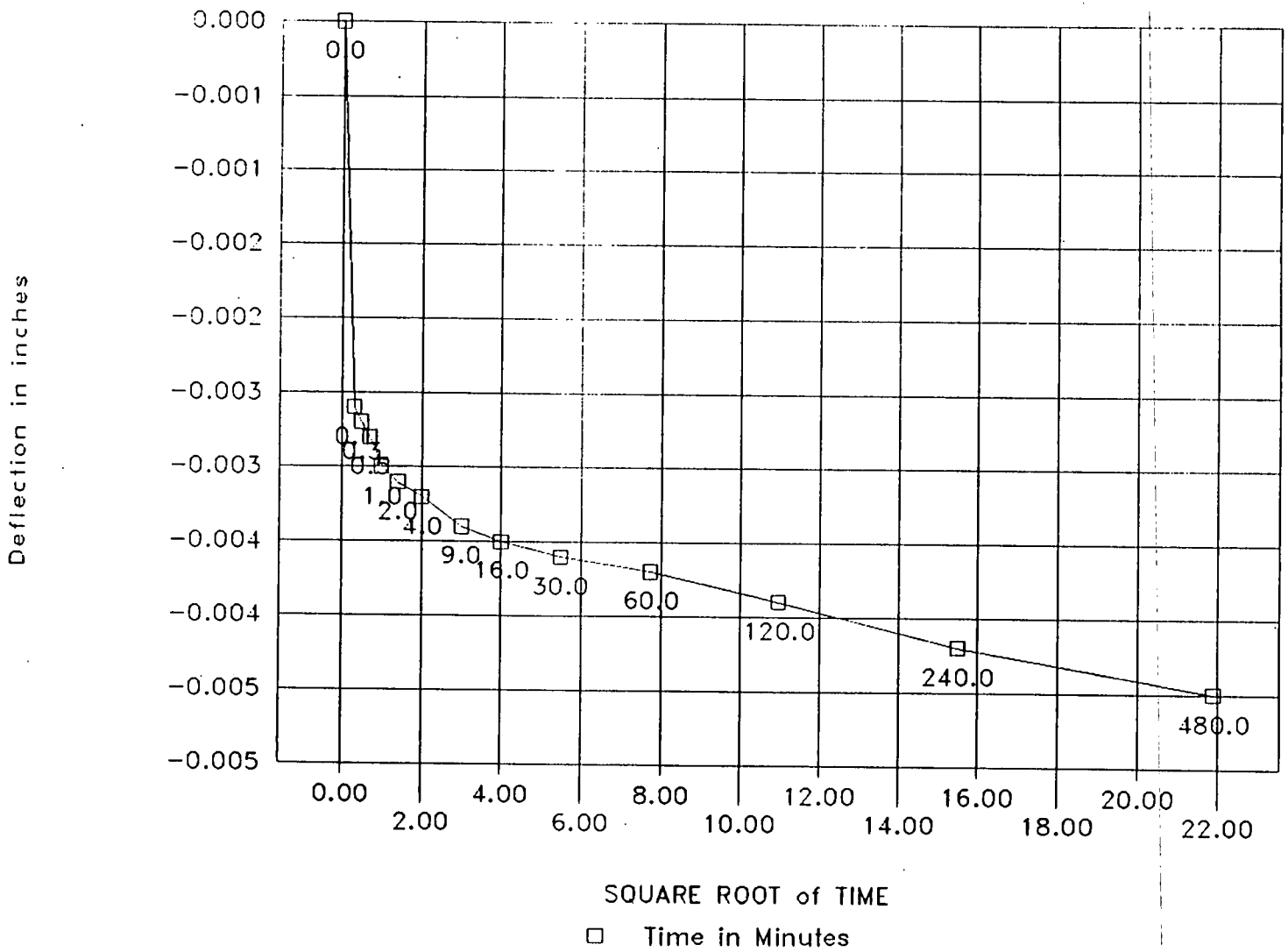
TIME READING DATA

G2-126,404783,35.0-37.0',6400 psf Load



TIME READING DATA

G2-126,404783,35.0-37.0',12800 psf Load



CONSOLIDATION TEST DATA SHEET

SAC0783 SAC1783
SACC783 SAC2783
SACE783 3
4

474

JOB SAIC/PARSONS PO 140 FERNALD JOB NO. 2059-13 D

DATE SAMPLED 4-24-95 JM BORING NO. G2-126

TEST STARTED 6-1-95 BY DSR TEST FINISHED 6-9-95 BY DSR DEPTH 35-37' (B)

SOIL TYPE SAMPLE # 404783

CONSOLIDOMETER NO. ATT - 17 INITIAL SAMPLE HEIGHT H_0 = 1.00" D = 2.410"

MOISTURE & DENSITY DATA	BEFORE TEST	AFTER TEST
WT. OF RING(S) + SOIL	217.91	205.41
WT. OF RING(S) ONLY	46.12	
WT. OF SOIL (NET)		
WET DENSITY IN LBS/CU. FT.*		
WT. OF WET SOIL + DISH NO. 20Z		
INT. OF DRY SOIL + DISH		
WT. OF LOST MOISTURE		
WT. OF DISH ONLY	3.80	
WT. OF DRY SOIL		
MOISTURE AS % OF DRY WT.		
DRY DENSITY IN LBS/CU. FT.		

TEST INSTRUCTIONS

LOAD CYCLE 100 ~~WET~~ DSR 200
400 800 1600 TR 3200 TR
6400 TR 12800 TR 25600
REBOUND x 2

SPECIAL INSTRUCTION AND NOTES
DRY WT. SOIL PAN & RING = 2029.
NATURAL MOISTURE!! CON
SpGr = 2.74

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOLIDATION
6-1-95	0939	0	100	.0114		
	0949	10		.0123		.0000
			200			
	0950	1		.0130		
	0951	2		.0132		
	1058			.0153		
	1200			.0161		
	1340			.0172		
	1459			.0181		
	1604			.0187		
	1717			.0193		
6-2-95	0800			.0251		
	0927			.0256		
	1112			.0263		
	1221			.0266	.0143	.0138
			400			
	1222	1		.0274		
	1223	2		.0275		
	1433			.0288		
	1533			.0293		
	1645			.0297		
6-3-95	1023			.0336	.0213	.0201
			800			
	1039	1		.0346		
	1040	2		.0347		
	1111			.0351		
	1327			.0359		
6-4-95	0855			.0378		
6-5-95	0848			.0389	.0266	.0243

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOLIDATION
6-5-95	0855	.1	1600	.0396		
		.25		.0396		
		.5		.0397		
	0856	1		.0397		
	0857	2		.0398		
	0859	4		.0398		
	0904	9		.0398		
	0911	16		.0400	~~.0277~~ .14	
	0925	30				
	0955	60		.0402		
	1055	120		.0404		
	1255	240		.0406		
	1655	480		.0409	.0286	.0250
6-6-95	0841		3200	.0413		
		.1		.0425		
		.25		.0426		
		.5		.0427		
	0842	1		.0428		
	0843	2		.0428		
	0845	4		.0429		
	0850	9		.0430		
	0857	16		.0431		
	0911	30		.0432		
	0941	60		.0434		
	1041	120		.0436		
	1241	240		.0439		
	1641	480		.0443		
6-7-95	0818			.0446	.0323	.0270
			6400			
		.1		.0460		

CONTINUED ON REVERSE SIDE

ADVANCED TERRA TESTING

CONSOLIDATION TEST DATA SHEET (CONTINUED)

G2-126 35-37'
404783

DATE	TIME	E-LAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOL-IDATION
6-7-95		.25	(400 tons)	.0461		
		.5		.0462		
	0819	1		.0462		
	0820	2		.0463		
	0822	4		.0464		
	0827	9		.0465		
	0834	16		.0466		
	0848	30		.0468		
	0918	60		.0468		
	1018	120		.0470		
	1218	240		.0474		
	1618	480		.0476		
6-8-95	0821			.0478	.0355	.0284
			12800			
		.1		.0504		
		.25		.0505		
		.5		.0506		
	0822	1		.0508		
	0823	2		.0509		
	0825	4		.0510		
	0830	9		.0512		
	0837	16		.0513		
	0851	30		.0514		
WB	0821	60		.0515		
	1021	120		.0517		
	1221	240		.0520		
	1621	480		.0523		
6-9-95	0827			.0527	.0404	.0307
			25600			
	0828	1		.0570		
	0829	2		.0571		
	1000			WB .04 .0583		
	1135			.0586	.0463	.0335
			6400			
	1137	1		.0551		
	1138	2		.0550		
	1334			.0548	.0425	.0210
			1600			
	1335	1		.0530		
	1336	2		.0529		
	1437			.0526	.0403	.0214
			400			
	1438	1		.0517		
	1439	2		.0516		
	1624			.0513	.0390	.0213
			100			
	1622	1		.0508		
	1623	2		.0507		
	1723			.0506	.0383	.0211

DATE	TIME	E-LAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOL-IDATION

CONSOLIDATION TEST
ASTM D-2435

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13D

BORING NO. G2-127
DEPTH 7.5-9.5'
SAMPLE NO. 404751
SOIL DESCR. Fernald
Note: Natural Moisture
SAMPLE DIA.(in) 2.410

SAMPLED 4-21-95 MG
TEST STARTED 6-1-95 DSR
TEST FINISHED 6-9-95 WEB
CELL NUMBER ATT-5

INITIAL HT.(in) 1.000

MOISTURE/DENSITY DATA	BEFORE TEST	AFTER TEST
Wt. Soil & Ring(s) (g)	214.1	205.5
Wt. Ring(s) (g)	46.3	46.3
Wt. Soil (g)	167.9	159.2
Wet Density PCF	140.2	138.8
Wt. Wet Soil & Pan (g)	171.4	162.8
Wt. Dry Soil & Pan (g)	151.7	151.7
Wt. Lost Moisture (g)	19.7	11.0
Wt. of Pan Only (g)	3.5	3.5
Wt. of Dry Soil (g)	148.2	148.2
Moisture Content %	13.3	7.5
Dry Density PCF	123.7	129.1

LOAD (PSF)	CONSOL. (IN.)
100	0.0000
200	0.0100
400	0.0124
800	0.0175
1600	0.0264
3200	0.0303
6400	0.0343
12800	0.0390
25600	0.0427
6400	0.0426
1600	0.0415
400	0.0421
100	0.0417

LOAD (PSF)	LOG p	CONSOL. (IN.)	DEFL. (IN.)	VOID RATIO e
100	2.000	0.0000	0.0000	0.3823
200	2.301	0.0100	-0.0100	0.3685
400	2.602	0.0124	-0.0124	0.3652
800	2.903	0.0175	-0.0175	0.3581
1600	3.204	0.0264	-0.0264	0.3458
3200	3.505	0.0303	-0.0303	0.3404
6400	3.806	0.0343	-0.0343	0.3349
12800	4.107	0.0390	-0.0390	0.3284
25600	4.408	0.0427	-0.0427	0.3233
6400	3.806	0.0426	-0.0426	0.3234
1600	3.204	0.0415	-0.0415	0.3250
400	2.602	0.0421	-0.0421	0.3241
100	2.000	0.0417	-0.0417	0.3247

% Saturation	95.2
Sp. Gr. (g/cc)	2.740
Init. Ht. Solids (cm)	1.837
Init. Ht. Voids (cm)	0.703
Init. Void Ratio	0.3823

Data entry by: NAA Date: 6-13-95
Data checked by: CW Date: 8-12-95
FileName:SAC0751N

ADVANCED TERRA TESTING, INC.

TIME READING DATA

G2-127
7.5-9.5'

1600 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.0199	0.0000
0.1	0.32	0.0219	-0.0020
0.3	0.50	0.0222	-0.0023
0.5	0.71	0.0224	-0.0025
1.0	1.00	0.0226	-0.0027
2.0	1.41	0.0228	-0.0029
4.0	2.00	0.0229	-0.0030
9.0	3.00	0.0232	-0.0033
16.0	4.00	0.0234	-0.0035
30.0	5.48	0.0236	-0.0037
60.0	7.75	0.0239	-0.0040
120.0	10.95	0.0244	-0.0045
240.0	15.49	0.0250	-0.0051
480.0	21.91	0.0259	-0.0060

3200 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.0298	0.0000
0.1	0.32	0.0311	-0.0013
0.3	0.50	0.0312	-0.0014
0.5	0.71	0.0312	-0.0014
1.0	1.00	0.0314	-0.0016
2.0	1.41	0.0315	-0.0017
4.0	2.00	0.0316	-0.0018
9.0	3.00	0.0317	-0.0019
16.0	4.00	0.0318	-0.0020
30.0	5.48	0.0319	-0.0021
60.0	7.75	0.0321	-0.0023
120.0	10.95	0.0324	-0.0026
240.0	15.49	0.0329	-0.0031
480.0	21.91	0.0334	-0.0036

6400 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.0349	0.0000
0.1	0.32	0.0367	-0.0018
0.3	0.50	0.0368	-0.0019
0.5	0.71	0.0369	-0.0020
1.0	1.00	0.0370	-0.0021
2.0	1.41	0.0371	-0.0022
4.0	2.00	0.0372	-0.0023
9.0	3.00	0.0374	-0.0025
16.0	4.00	0.0376	-0.0027
30.0	5.48	0.0377	-0.0028
60.0	7.75	0.0380	-0.0031
120.0	10.95	0.0383	-0.0034
240.0	15.49	0.0388	-0.0039
480.0	21.91	0.0393	-0.0044

12800 psf Load

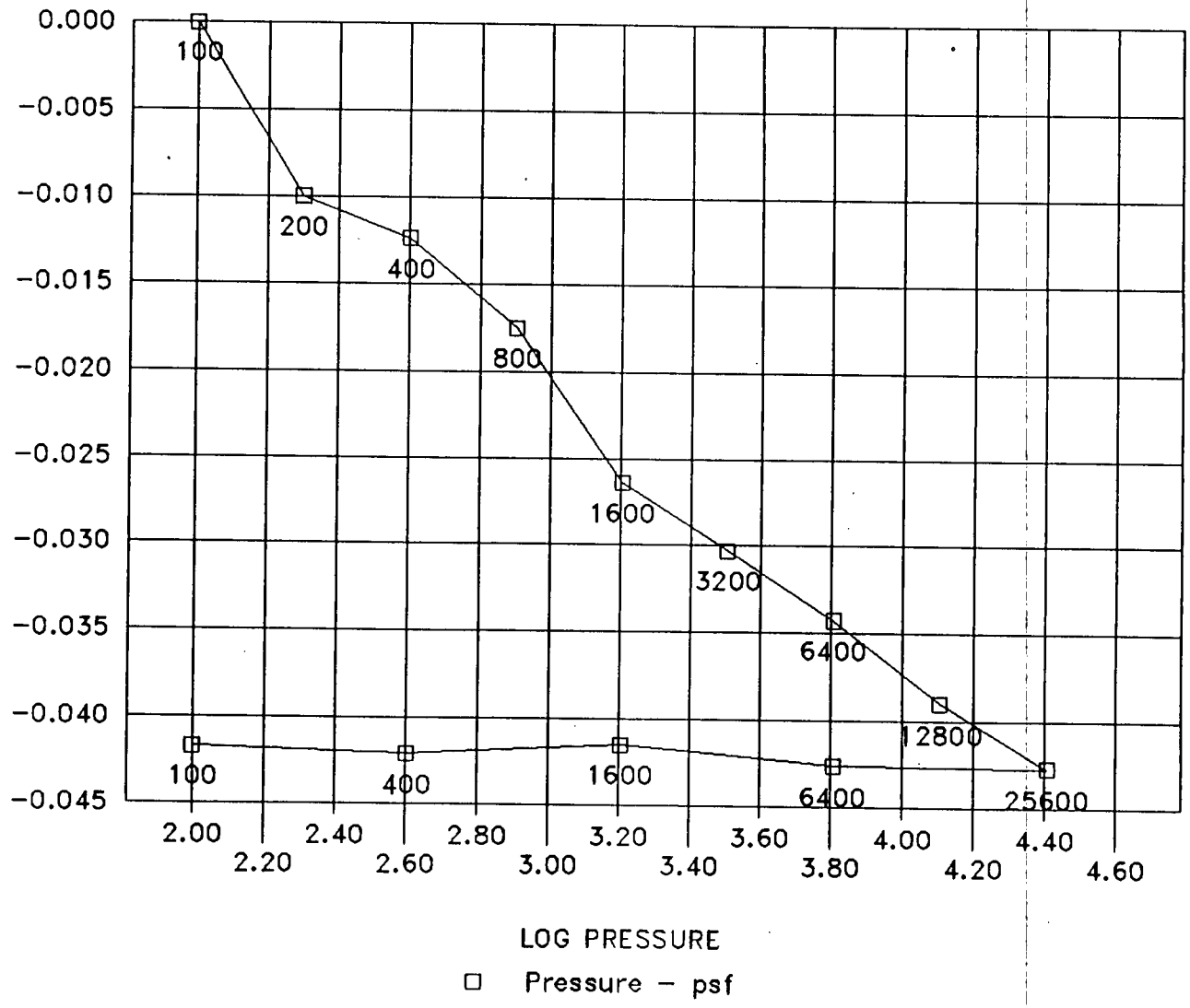
Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.0404	0.0000
0.1	0.32	0.0428	-0.0024
0.3	0.50	0.0429	-0.0025
0.5	0.71	0.0430	-0.0026
1.0	1.00	0.0432	-0.0028
2.0	1.41	0.0433	-0.0029
4.0	2.00	0.0434	-0.0030
9.0	3.00	0.0437	-0.0033
16.0	4.00	0.0439	-0.0035
30.0	5.48	0.0440	-0.0036
60.0	7.75	0.0443	-0.0039
120.0	10.95	0.0447	-0.0043
240.0	15.49	0.0451	-0.0047
480.0	21.91	0.0458	-0.0054

Data entry by: NAA Date: 6-13-95
Data checked by: CJ Date: 8-12-95
FileName:SAC0751N

ADVANCED TERRA TESTING, INC.

CONSOLIDATION TEST DATA

G2-127,404751,7.5-9.5'



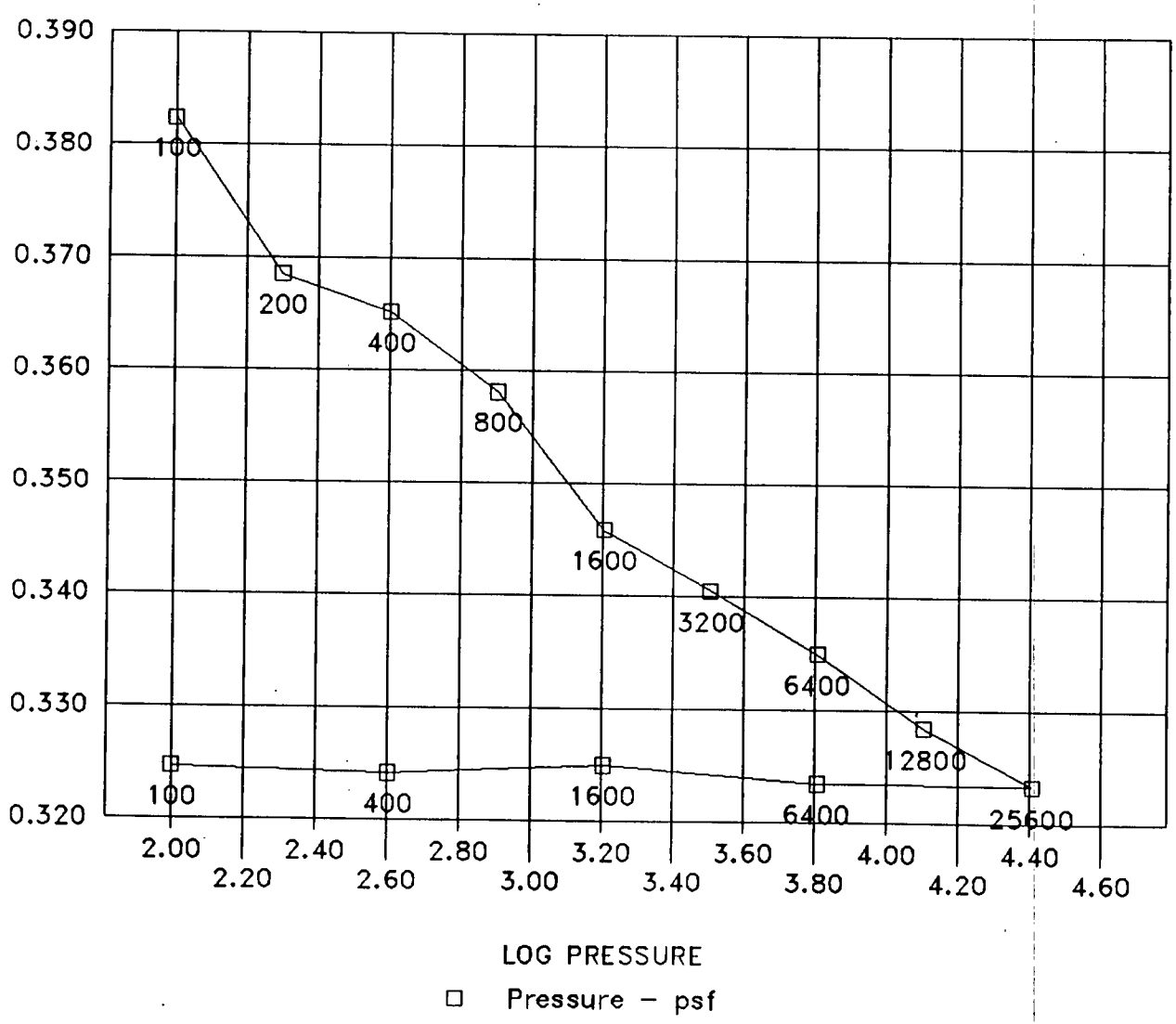
565

000631

474

CONSOLIDATION TEST DATA

G2-127,404751,7.5-9.5'



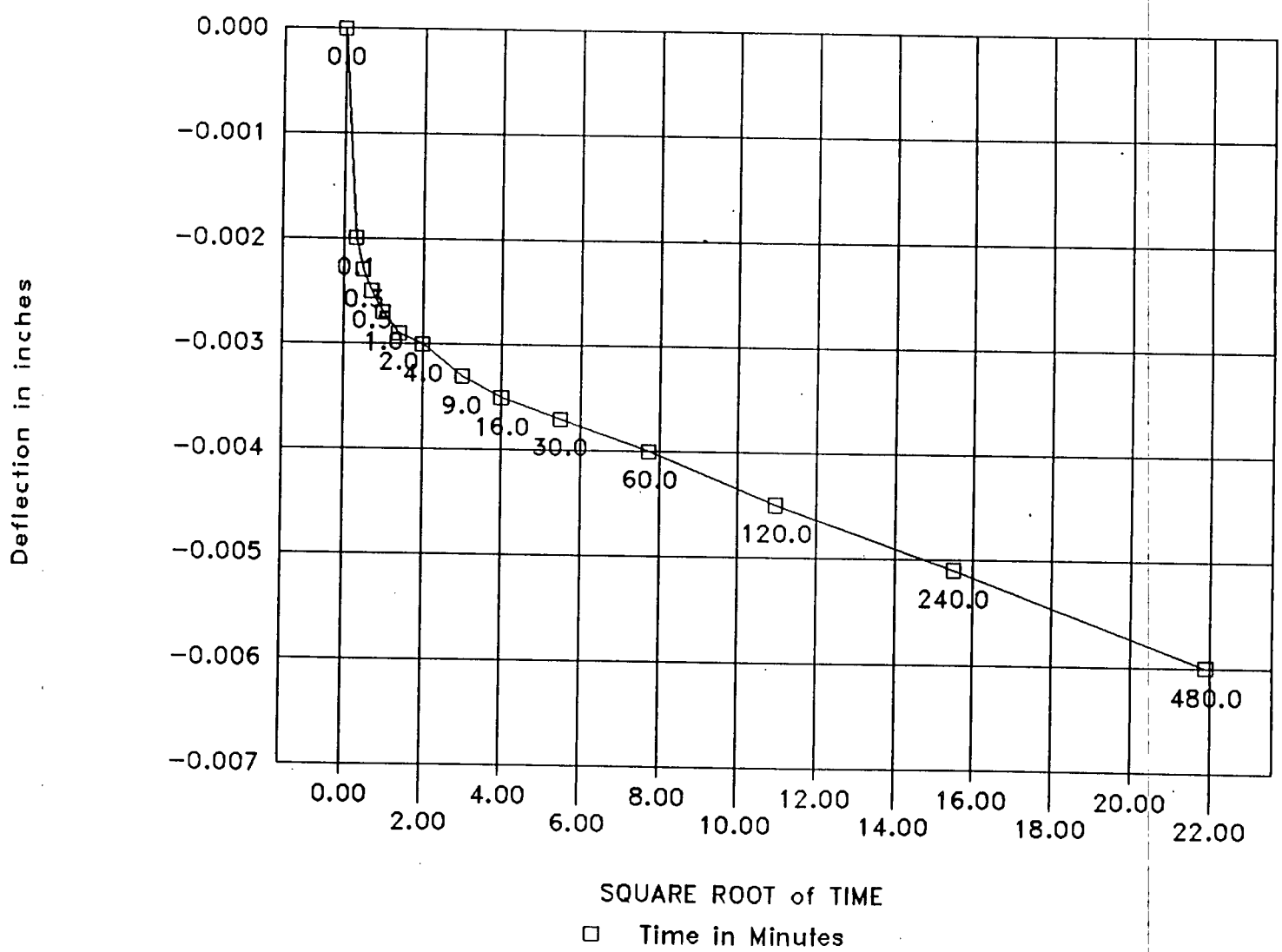
566

000632

474

TIME READING DATA

G2-127,404751,7.5-9.5',1600 psf Load



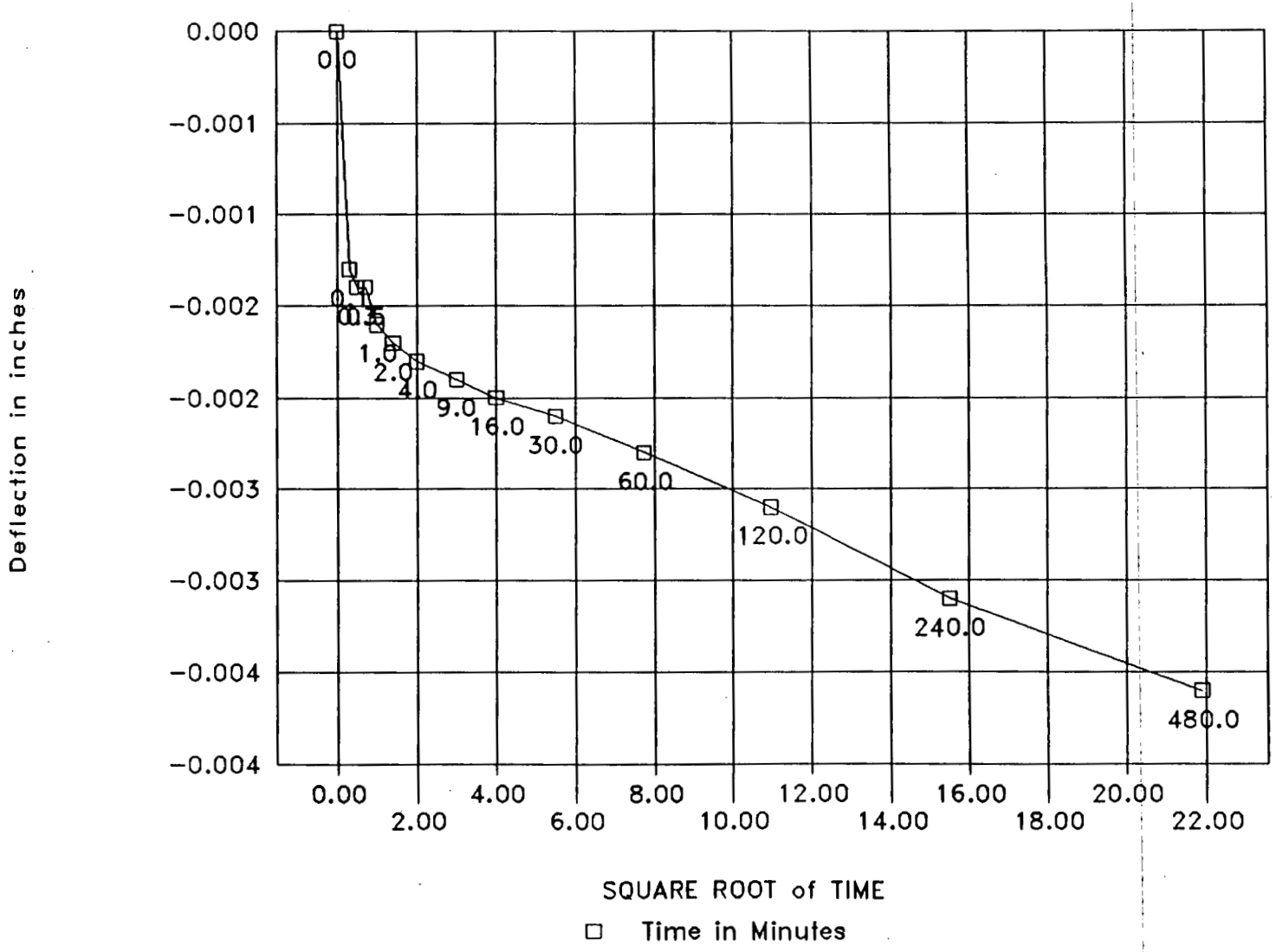
567

000633

474

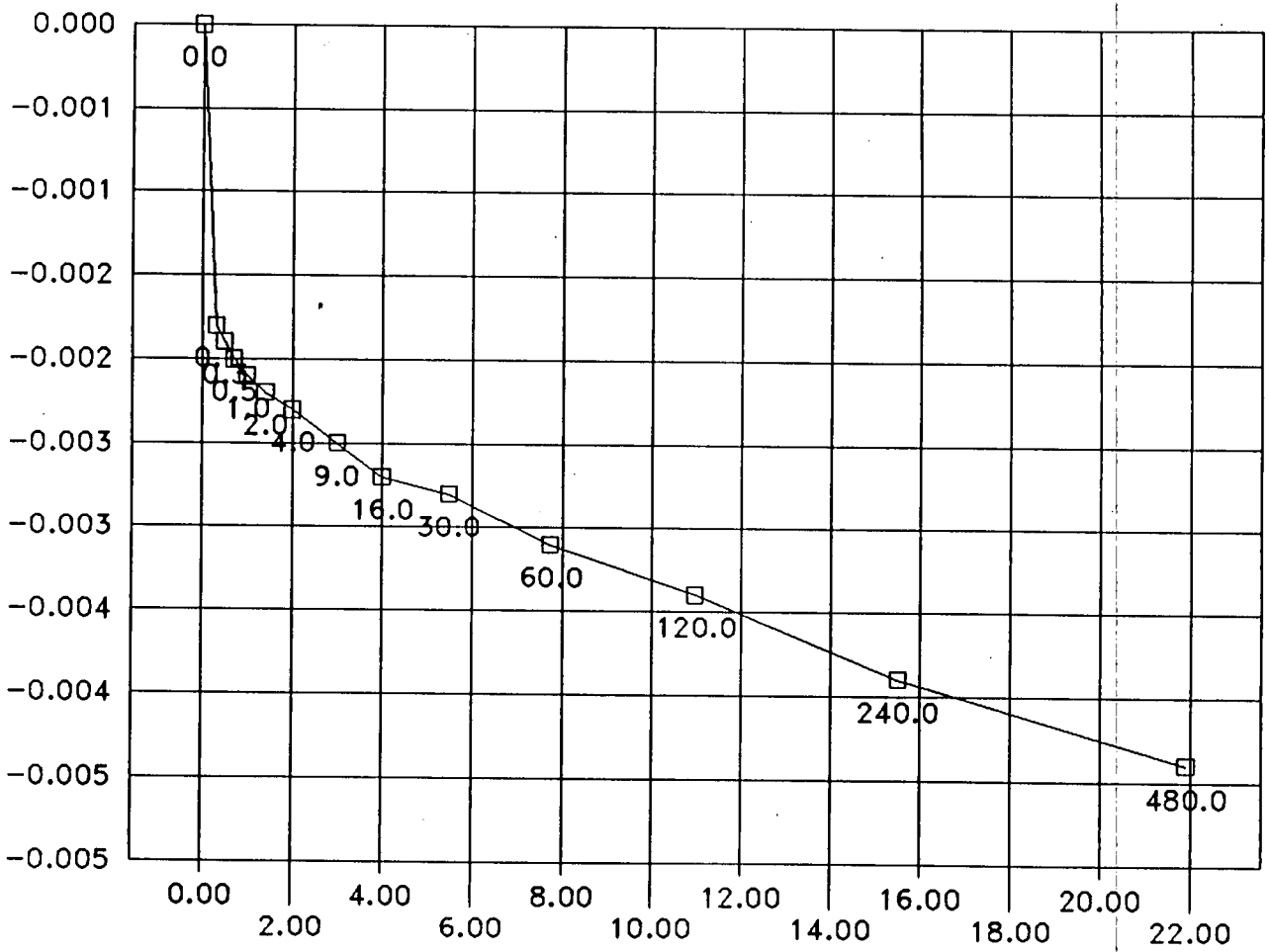
TIME READING DATA

G2-127,404751,7.5-9.5',3200 psf Load



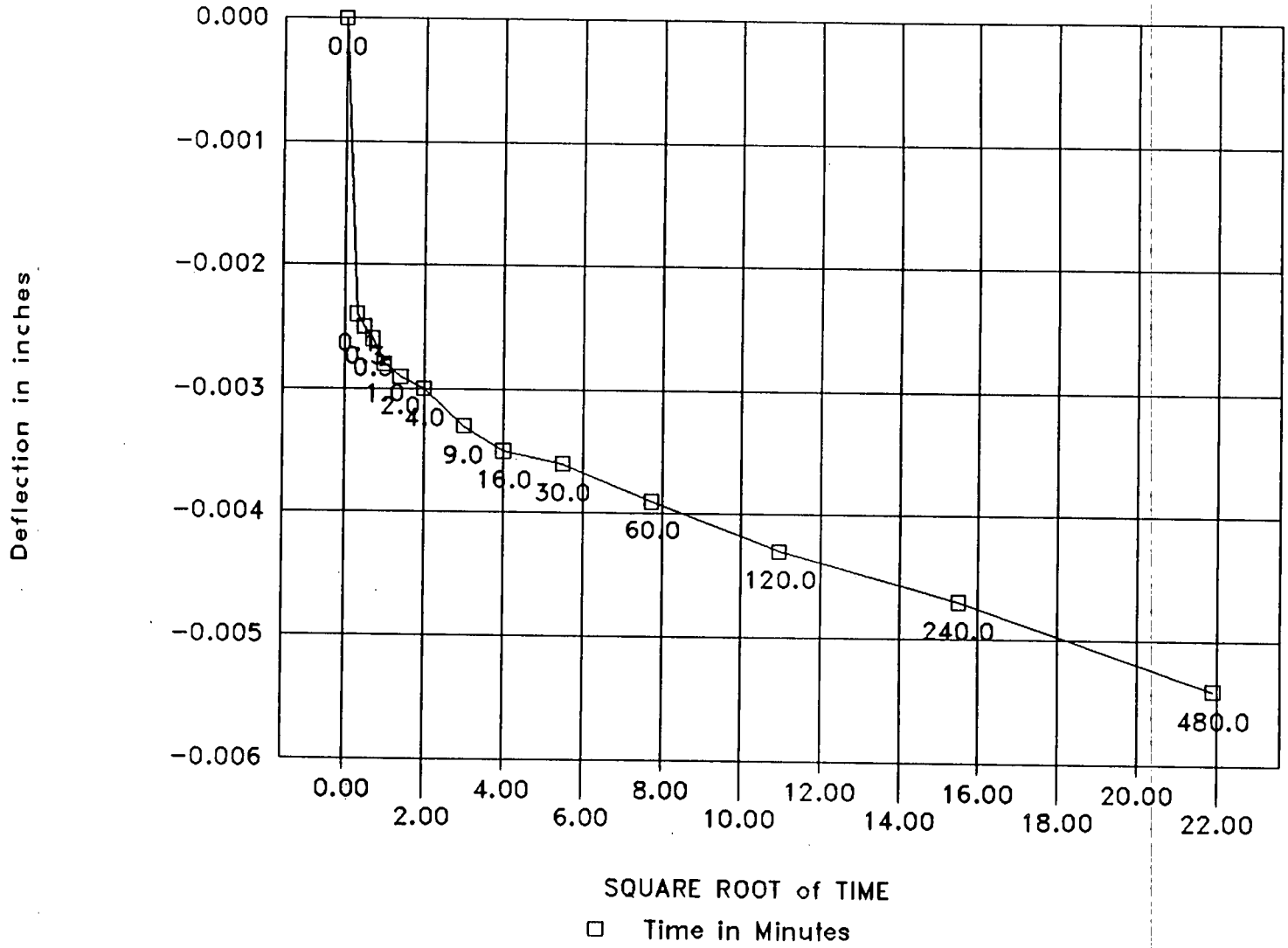
TIME READING DATA

G2-127,404751,7.5-9.5',6400 psf Load



TIME READING DATA

G2-127,404751,7.5-9.5',12800 psf Load



570

000636

474

CONSOLIDATION TEST DATA SHEET

SAC075IN SAC175IN
SACC75IN 2
SACE75IN 3
PO 146 4

JOB SAIC / PARSONS JOB NO. 2059-13D
DATE SAMPLED 4-21-95 MG BORING NO. G2-127
TEST STARTED 6-1-95 BY DSR TEST FINISHED 6-9-95 BY WEB DEPTH 7.5-9.5'
SOIL TYPE FERNALD SAMPLE No: 404751
CONSOLIDOMETER NO. ATT-5 INITIAL SAMPLE HEIGHT H_0 = 1.00" D_0 = 2.410"

MOISTURE & DENSITY DATA	BEFORE TEST	AFTER 205.48 TEST
WT. OF RING(S) + SOIL	214.13	~~205.56~~ WB 9-95
WT. OF RING(S) ONLY	46.26	46.26
WT. OF SOIL (NET)		
WET DENSITY IN LBS/CU. FT.*		
WT. OF WET SOIL + DISH NO. 56Z		
INT. OF DRY SOIL + DISH		
WT. OF LOST MOISTURE		
WT. OF DISH ONLY	3.53	
WT. OF DRY SOIL		
MOISTURE AS % OF DRY WT.		
DRY DENSITY IN LBS/CU. FT.		

TEST INSTRUCTIONS

LOAD CYCLE	100	200	400
800	1600 TR	3200 TR	6400 TR
12800 TR	25600		
REBOUND x 2			

SPECIAL INSTRUCTION AND NOTES
WT SOIL PAN & RING = 197.97

NATURAL MOISTURE!! CONS

SpGR = 2.74

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOLIDATION
6-1-95	1011	0	100	.0000		
	1030	19		.0000		.0000
			200			
	1031	1		.0005		
	1032	2		.0006		
	1157			.0024		
	1408			.0040		
	1503			.0046		
	1608			.0053		
	1715			.0061		
6-2-95	813			.0101		
	0937			.0104		.0100
			400			
	0939			.0113		
	0940			.0114		
	1114			.0122		
	1225			.0126		
	1436			.0130		
	1542			.0134		
	1648			.0136		.0124
			800			
	1649	1		.0150		
	1650	2		.0151		
6-3-95	27			.0199		.0175
			1600			
		.1		.0219		
		.25		.0222		
		.5		.0224		
	1138	1		.0226		
	1139	2		.0228		

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOLIDATION
6-3-95	1141	4	1600	.0229		
	1146	9		.0232		
	1153	16		.0234		
	1207	30		.0236		
	1237	60		.0239		
	1337	120		.0244		
	1537	240		.0250		
	1937	480		.0259		
6-4-95	0859			.0279		
6-5-95	0819			.0298		.0264
			3200			
		.1		.0311		
		.25		.0312		
		.5		.0312		
	0820	1		.0314		
	0821	2		.0315		
	0823	4		.0316		
	0828	9		.0317		
	0835	16		.0318		
	0849	30		.0319		
	0919	60		.0321		
	1019	120		.0324		
	1219	240		~~.0328~~ WB .0329		
	1619	480		.0334		
6-6-95	0814			.0349		.0303
			6400			
		.1		.0367		
		.25		.0368		
		.5		.0369		
	0815	1		.0370		

ADVANCED TERRA TESTING

 CONTINUED ON REVERSE SIDE

DAK/PARSONS 10170 LOG T-15D
G2-127 7.5-9.5'
404751

CONSOLIDATION TEST DATA SHEET (CONTINUED)

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOLIDATION
6-6-95	0816	2	6400 cont	.0371		
	0818	4		.0372		
	0823	9		.0374		
	0830	16		.0376		
	0844	30		.0377		
	0914	60		.0380		
	1014	120		.0383		
	1214	240		.0388		
	1614	480		.0393		
6-7-95	801			.0404		.0343
		.1	12800	.0428		
		.25		.0429		
		.5		.0430		
	802	1		.0432		
	803	2		.0433		
	805	4		.0434		
	810	9		.0437		
	817	16		.0439		
	831	30		.0440		
	901	60		.0443		
	1001	120		.0447		
	1201	240		.0451		
	1601	480		.0458		
	0838			.0472		.0390
6-8-95			2560			
	0839	1		.0504		
	0840	2		.0506		
	1019			.0520		
	1125			.0524		
	1239			.0532		
	1407			.0536		
	1519			.0538		.0427
			6400			
	1520	1		.0513		
	1521	2		.0513		
	1624			.0510		.0426
			1600			
	1635	1		.0488		
	1636	2		.0488		
6-9-95	0837			.0480		.0415
			400			
	0838	1		.0470		
	0839	2		.0470		
	1006			.0467		.0421
			100			
	1007	1		.0458		
	1008	2		.0458		
	1144			.0455		.0417

572

ATT-5

000638

CONSOLIDATION TEST
ASTM D-2435

CLIENT SAIC/Parsons PO 140 JOB NO. 2059-13B

BORING NO.	G2-128	SAMPLED	4-19-95 MM
DEPTH	12.5-14.5'	TEST STARTED	6-1-95 DSR
SAMPLE NO.	405046	TEST FINISHED	6-10-95 DSR
SOIL DESCR.	Fernald	CELL NUMBER	ATT-4
Note: Natural Moisture			
SAMPLE DIA.(in)	2.410	INITIAL HT.(in)	1.000

MOISTURE/DENSITY DATA	BEFORE TEST	AFTER TEST
Wt. Soil & Ring(s) (g)	211.9	205.0
Wt. Ring(s) (g)	46.3	46.3
Wt. Soil (g)	165.6	158.7
Wet Density PCF	138.3	143.4
Wt. Wet Soil & Pan (g)	174.2	167.4
Wt. Dry Soil & Pan (g)	151.8	151.8
Wt. Lost Moisture (g)	22.4	15.6
Wt. of Pan Only (g)	8.7	8.7
Wt. of Dry Soil (g)	143.1	143.1
Moisture Content %	15.7	10.9
Dry Density PCF	119.5	129.4

LOAD (PSF)	CONSOL. (IN.)
100	0.0000
200	0.0138
400	0.0244
800	0.0393
1600	0.0476
3200	0.0560
6400	0.0655
12800	0.0753
25600	0.0837
6400	0.0845
1600	0.0826
400	0.0789
100	0.0760

LOAD (PSF)	LOG p	CONSOL. (IN.)	DEFL. (IN.)	VOID RATIO e
100	2.000	0.0000	0.0000	0.4260
200	2.301	0.0138	-0.0138	0.4063
400	2.602	0.0244	-0.0244	0.3912
800	2.903	0.0393	-0.0393	0.3699
1600	3.204	0.0476	-0.0476	0.3581
3200	3.505	0.0560	-0.0560	0.3461
6400	3.806	0.0655	-0.0655	0.3326
12800	4.107	0.0753	-0.0753	0.3186
25600	4.408	0.0837	-0.0837	0.3066
6400	3.806	0.0845	-0.0845	0.3055
1600	3.204	0.0826	-0.0826	0.3082
400	2.602	0.0789	-0.0789	0.3135
100	2.000	0.0760	-0.0760	0.3176

% Saturation	100.4
Sp. Gr. (g/cc)	2.730
Init. Ht. Solids (cm)	1.781
Init. Ht. Voids (cm)	0.759
Init. Void Ratio	0.4260

Data entry by: NAA Date: 6-16-95
Data checked by: [illegible] Date: 8-12-95
FileName:SAC05046

ADVANCED TERRA TESTING, INC.

TIME READING DATA

G2-128
12.5-14.5'

1600 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.0950	0.0000
0.1	0.32	0.0927	-0.0023
0.3	0.50	0.0925	-0.0025
0.5	0.71	0.0924	-0.0026
1.0	1.00	0.0923	-0.0027
2.0	1.41	0.0922	-0.0028
4.0	2.00	0.0920	-0.0030
9.0	3.00	0.0918	-0.0032
16.0	4.00	0.0917	-0.0033
30.0	5.48	0.0916	-0.0034
60.0	7.75	0.0913	-0.0037
120.0	10.95	0.0910	-0.0040
240.0	15.49	0.0903	-0.0047
480.0	21.91	0.0890	-0.0060

3200 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.0855	0.0000
0.1	0.32	0.0828	-0.0027
0.3	0.50	0.0826	-0.0029
0.5	0.71	0.0825	-0.0030
1.0	1.00	0.0823	-0.0032
2.0	1.41	0.0821	-0.0034
4.0	2.00	0.0819	-0.0036
9.0	3.00	0.0817	-0.0038
16.0	4.00	0.0815	-0.0040
30.0	5.48	0.0813	-0.0042
60.0	7.75	0.0810	-0.0045
120.0	10.95	0.0806	-0.0049
240.0	15.49	0.0798	-0.0057
480.0	21.91	0.0784	-0.0071

6400 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.0752	0.0000
0.1	0.32	0.0721	-0.0031
0.3	0.50	0.0718	-0.0034
0.5	0.71	0.0716	-0.0036
1.0	1.00	0.0713	-0.0039
2.0	1.41	0.0710	-0.0042
4.0	2.00	0.0708	-0.0044
9.0	3.00	0.0704	-0.0048
16.0	4.00	0.0701	-0.0051
30.0	5.48	0.0699	-0.0053
60.0	7.75	0.0695	-0.0057
120.0	10.95	0.0692	-0.0060
240.0	15.49	0.0685	-0.0067
480.0	21.91	0.0674	-0.0078

12800 psf Load

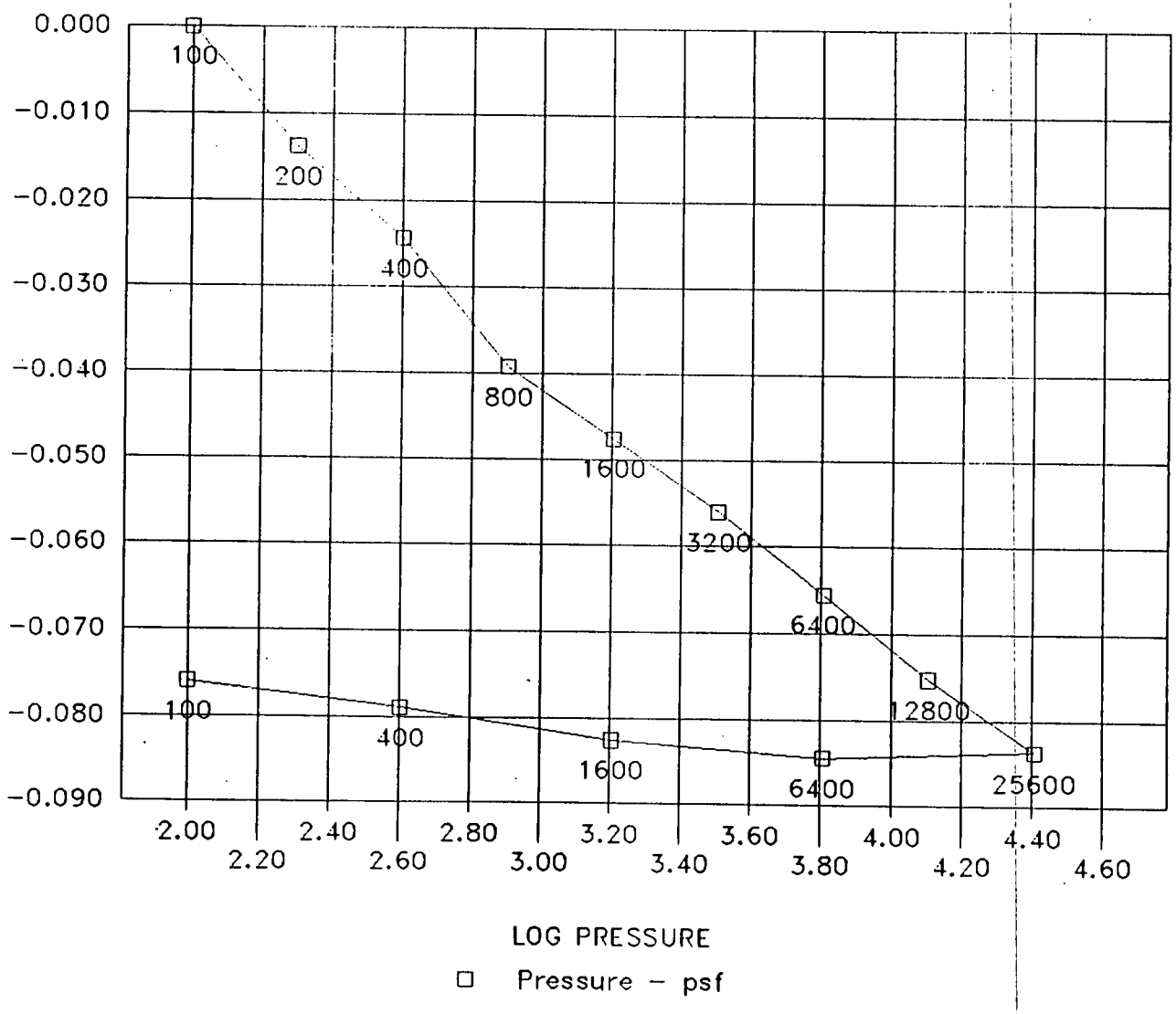
Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.0643	0.0000
0.1	0.32	0.0600	-0.0043
0.3	0.50	0.0596	-0.0047
0.5	0.71	0.0593	-0.0050
1.0	1.00	0.0591	-0.0052
2.0	1.41	0.0587	-0.0056
4.0	2.00	0.0584	-0.0059
9.0	3.00	0.0579	-0.0064
16.0	4.00	0.0577	-0.0066
30.0	5.48	0.0573	-0.0070
60.0	7.75	0.0569	-0.0074
120.0	10.95	0.0565	-0.0078
240.0	15.49	0.0560	-0.0083
480.0	21.91	0.0551	-0.0092

Data entry by: NAA Date: 6-16-95
Data checked by: CJ Date: 8-2-95
FileName:SAC05046

ADVANCED TERRA TESTING, INC.

CONSOLIDATION TEST DATA

G2-128,405046,12.5-14.5'



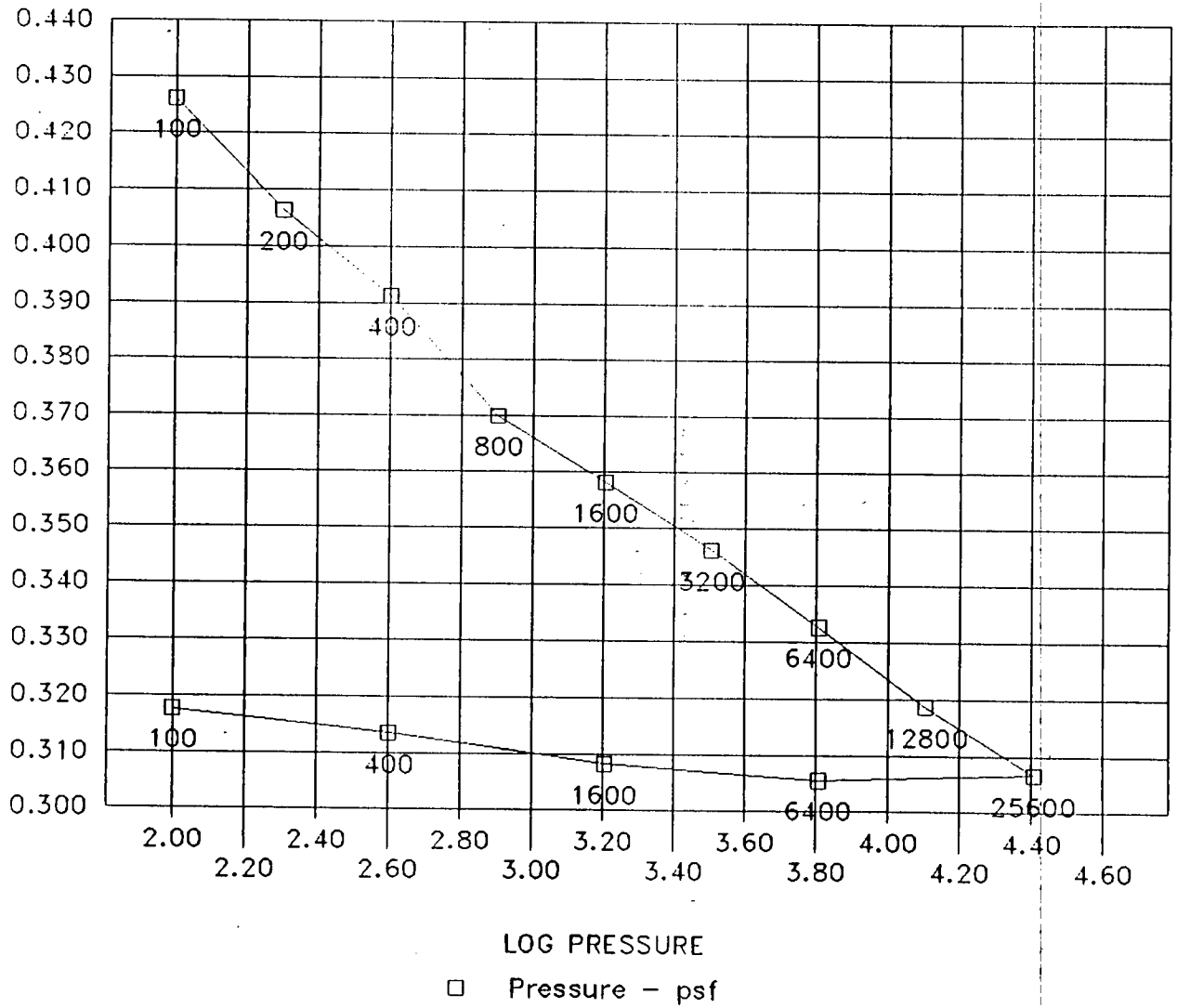
575

000641

474

CONSOLIDATION TEST DATA

G2-128,405046,12.5-14.5'



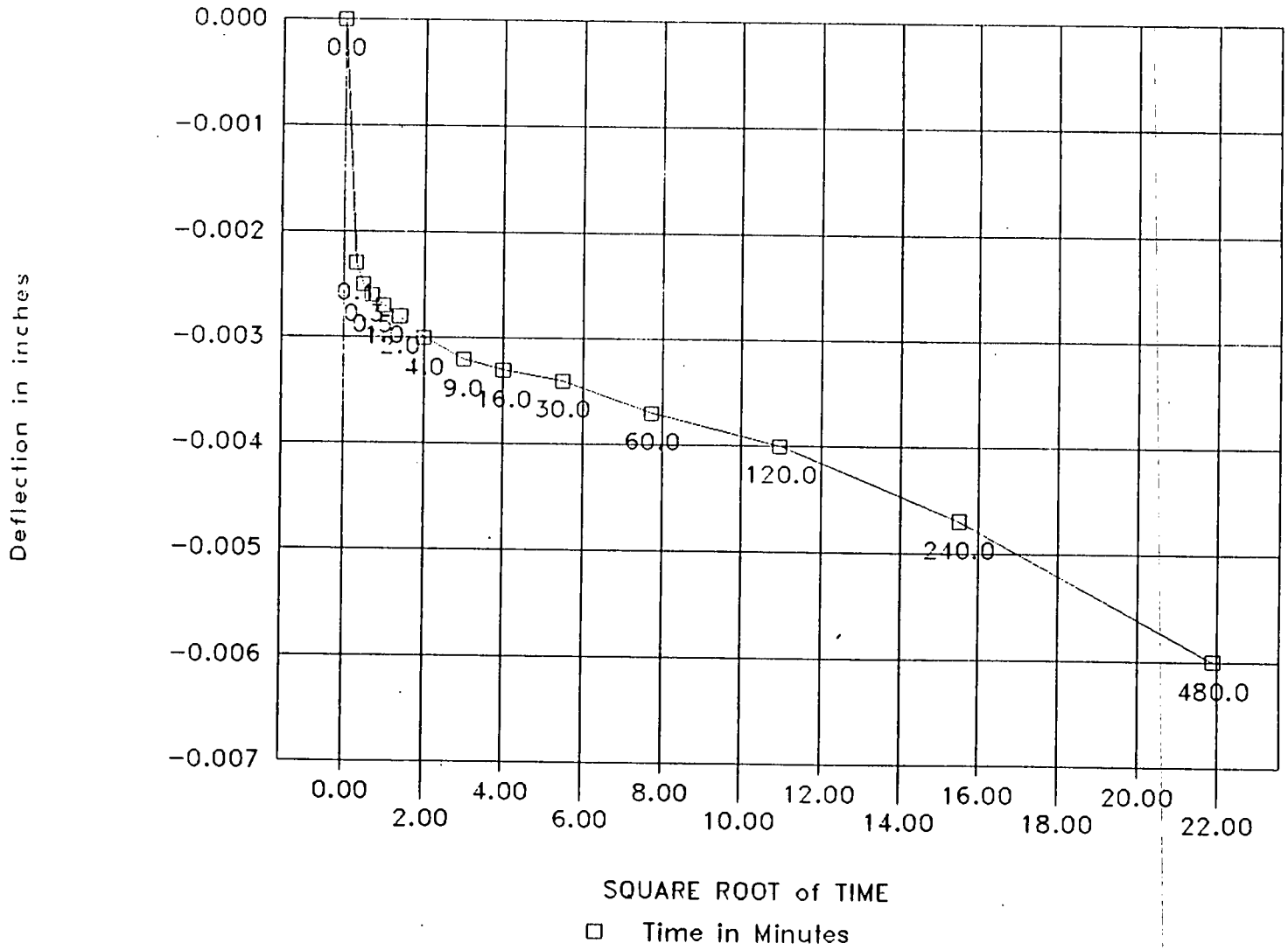
576

000342

174

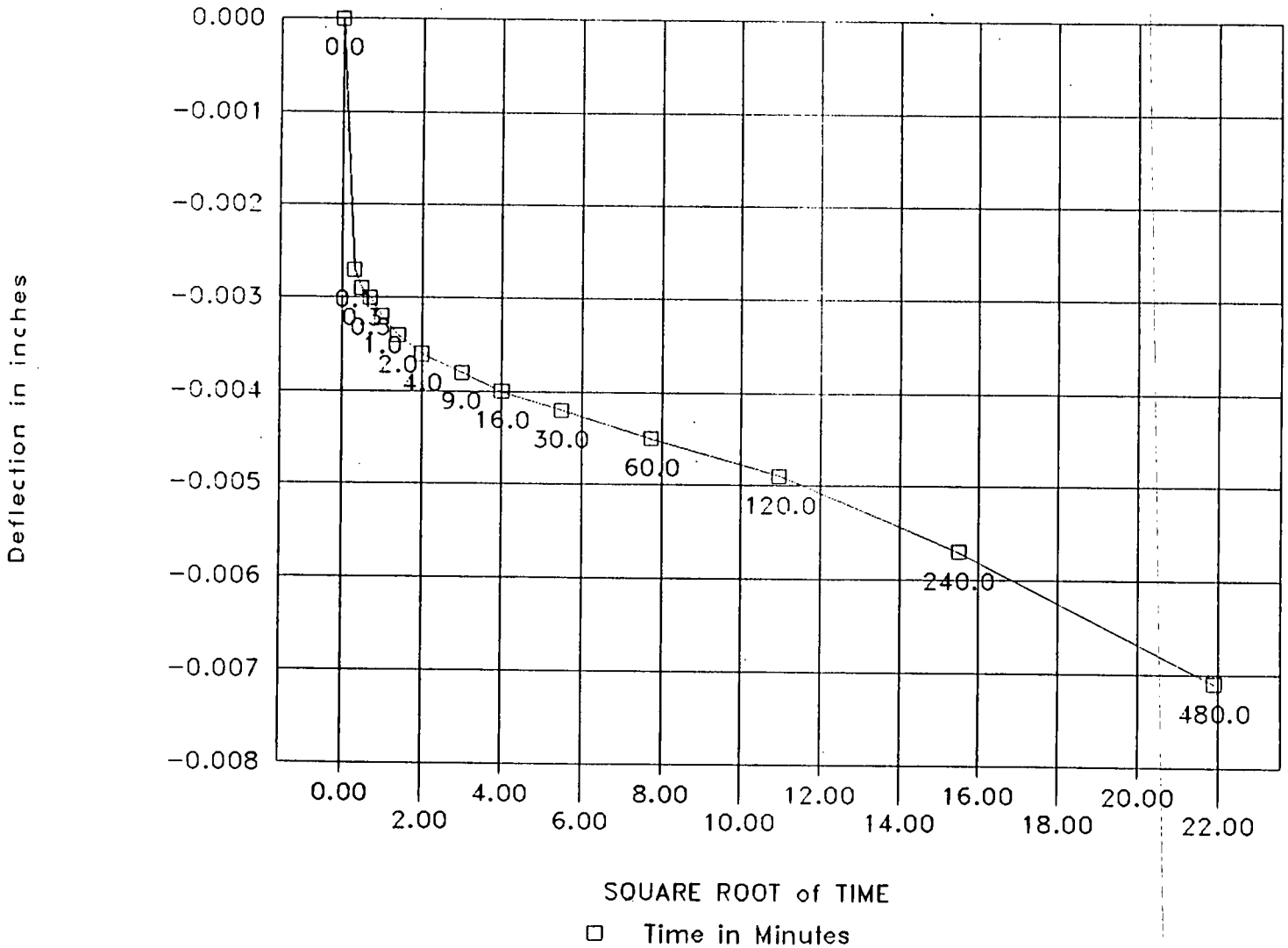
TIME READING DATA

G2-128,405046,12.5-14.5',1600 psf Load



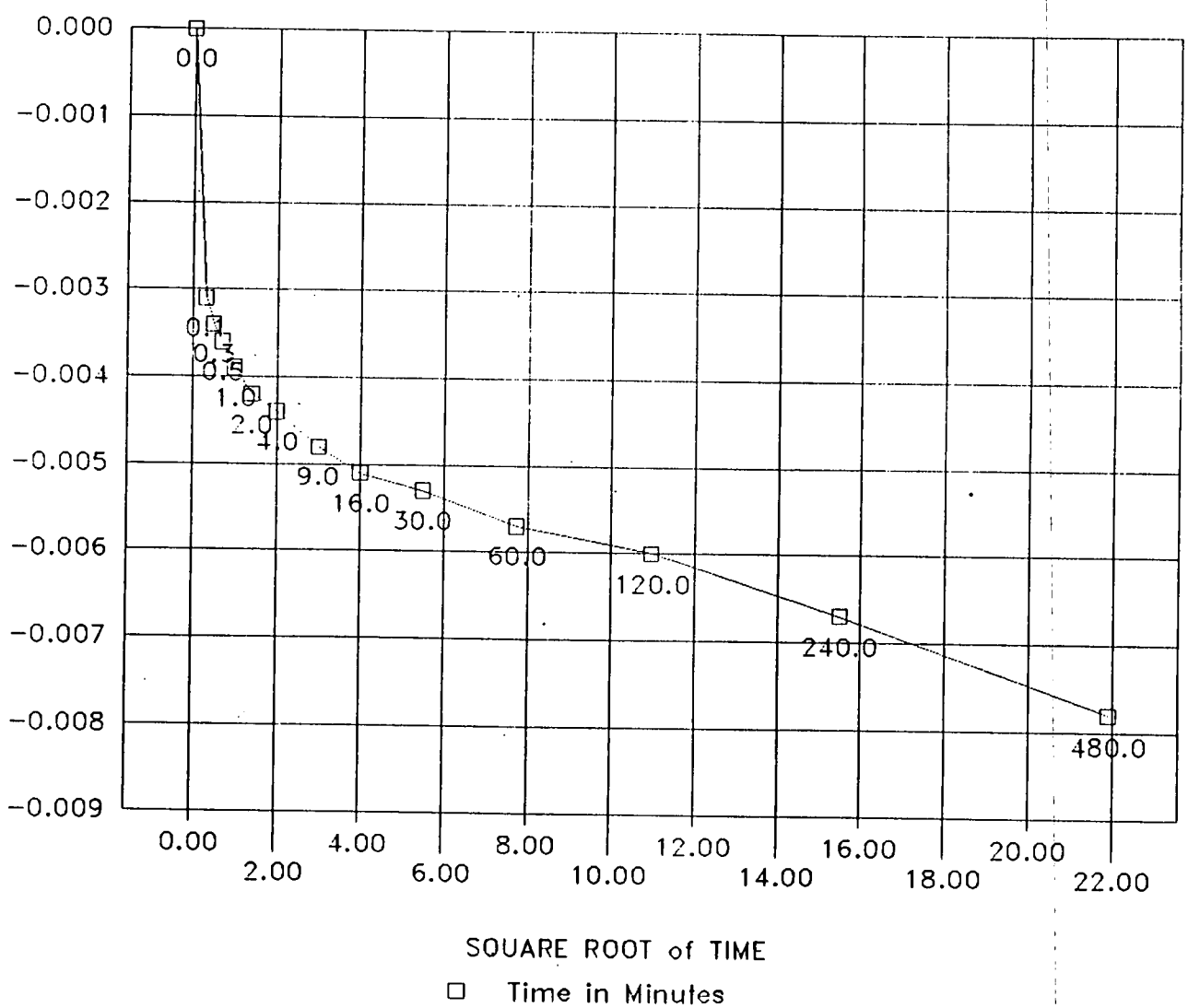
TIME READING DATA

G2-128,405046,12.5-14.5',3200 psf Load



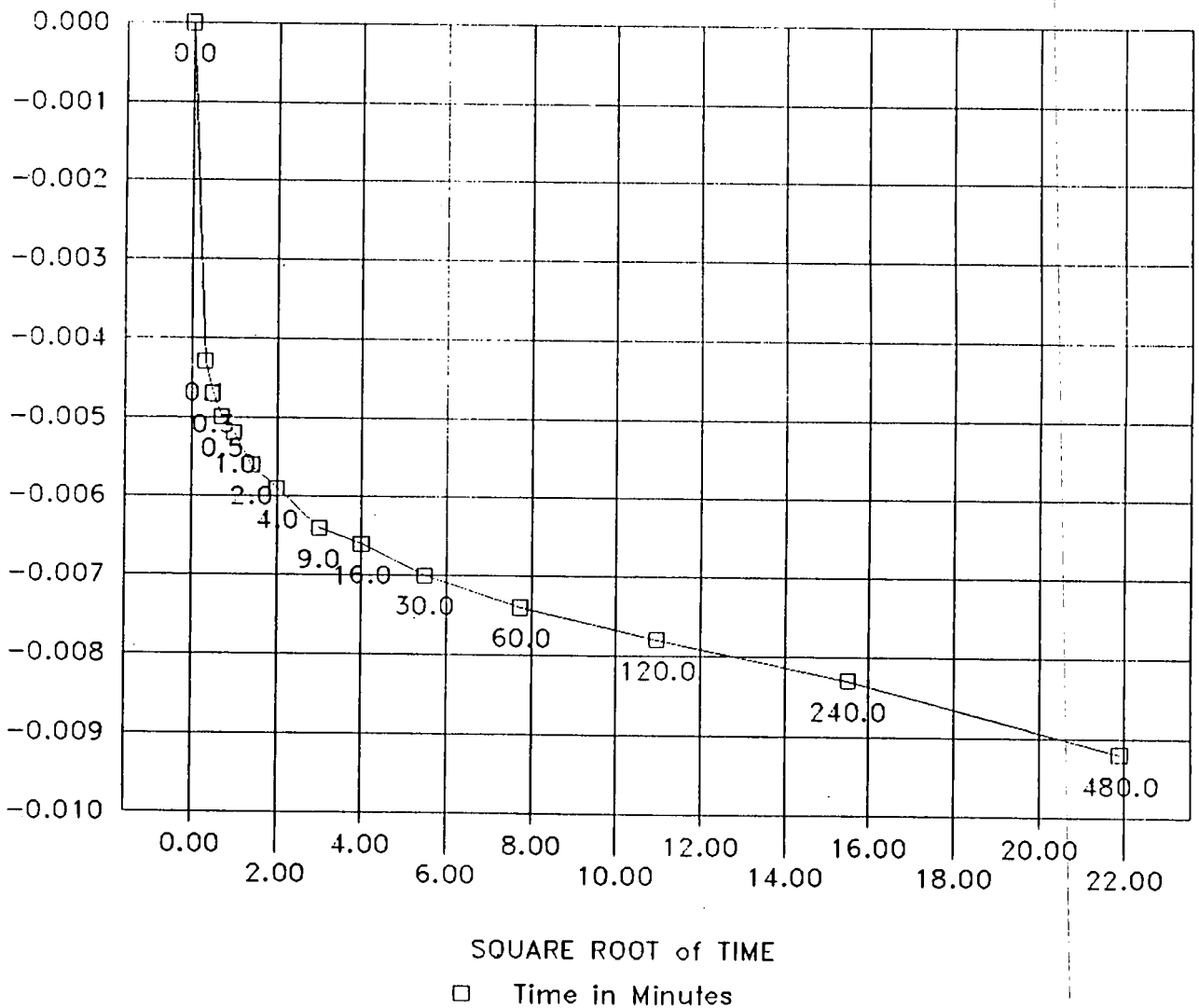
TIME READING DATA

G2-128,405046,12.5-14.5',6400 psf Load



TIME READING DATA

G2-128,405046,12.5-14.5',12800 psf Load



580

000646

4 7 4

CONSOLIDATION TEST DATA SHEET

SACØ5Ø46 SAC15Ø46 2
SACC5Ø46 3
SACG5Ø46 4

474
PAGE 1 OF 2

JOB SAIC / Parsons PO140 JOB NO. 2055-13 B
DATE SAMPLED 4-19-95 MM BORING NO. G2-128
TEST STARTED 6-1-95 BY DSR TEST FINISHED 6-10-95 BY DSR DEPTH 12.5-14.5'
SOIL TYPE Fernald SAMPLE No: 405046
CONSOLIDOMETER NO. ATT-4 INITIAL SAMPLE HEIGHT H_o = 1.00" D_o = 2.410"

MOISTURE & DENSITY DATA	BEFORE TEST	AFTER TEST
WT. OF RING(S) + SOIL	211.87 g	205.01 g
WT. OF RING(S) ONLY	46.32 g	46.32 g
WT. OF SOIL (NET)		
WET DENSITY IN LBS/CU. FT.*		
WT. OF WET SOIL + DISH NO. 24H		
INT. OF DRY SOIL + DISH		
WT. OF LOST MOISTURE		
WT. OF DISH ONLY	8.69 g	
WT. OF DRY SOIL		
MOISTURE AS % OF DRY WT.		
DRY DENSITY IN LBS/CU. FT.		

TEST INSTRUCTIONS

LOAD CYCLE 100 200 400
800 ~~1600 TR~~ ~~3200 TR~~ ~~6400 TR~~
~~12800 TR~~ 25600
REBOUND x 2

SPECIAL INSTRUCTION AND NOTES
DRY WT SOIL PAN & RING = 198.13

NATURAL MOISTURE!! CON

SpGR = 2.73

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOLIDATION
6-1-95	1043	0	100	.1381		
	1053			.1378		.0000
			200			
	1054	1		.1364		
	1055	2		.1362		
	1157			.1336		
	1408			.1314		
	1502			.1305		
	1608			.1299		
	1715			.1294		
6-2-95	813			.1239		
	0935			.1235	.0143	.0138
			400			
	0936	1		.1205		
	0937	2		.1202		
	1114			.1187		
	1224			.1181		
	1436			.1172		
	1542			.1168		
	1648			.1164		
6-3-95	1027			.1118	.0260	.0244
			800			
	1110	1		.1087		
	1111	2		.1085		
	1135			.1077		
6-4-95	0900			.0989		
6-5-95	0824			.0950	.0428	.0393
			1600			
		.1		.0927		
		.25		.0925	~~.0428~~	~~.0393~~ WB

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOLIDATION
6-5-95		.5	1600 cont	.0924		
	0825	1		.0923		
	0826	2		.0922		
	0828	4		.0920		
	0833	9		.0918		
	0840	16		.0917		
	0854	30		.0916		
	0924	60		.0913		
	1024	120		.0910	WB 6-5-95	
	1224	240		.0903		
	1624	480		.0890		
6-6-95	0819			.0855	.0523	~~.0488~~ WB .0476
			3200			
		.1		.0828		
		.25		.0826		
		.5		.0825		
	0820	1		.0823		
	0821	2		.0821		
	0823	4		.0819		
	0828	9		.0817		
	0835	16		.0815		
	0849	30		.0813		
	0919	60		.0810		
	1019	120		.0806		
	1219	240		.0798		
	1619	480		.0784		
6-7-95	806			.0752	.0626	.0560

ADVANCED TERRA TESTING

 CONTINUED ON REVERSE SIDE

SHL/ [illegible]
62-128
12.5-145
405096

CONSOLIDATION TEST DATA SHEET (CONTINUED)

DATE	TIME	E-LAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOL-IDATION
6-7-95		.1	6400	.0721		
		.25		.0718		
		.5		.0716		
	807	1		.0713		
	808	2		.0710		
	810	4		.0708		
	815	9		.0704		
	822	16		.0701		
	836	30		.0699		
	906	60		.0695		
	1006	120		.0692		
	1206	240		.0685		
	1606	480		.0674		
6-8-95	0841			.0643	.0735	.0655
			12800			
		.1		.0600		
		.25		.0596		
		.5		.0593		
	0842	1		.0591		
	0843	2		.0587		
	0845	4		.0584		
	0850	9		.0579		
	0857	16		.0577		
	0911	30		.0573		
	0941	60		.0569		
	1041	120		.0565		
	1241	240		.0560		
	1641	480		.0551		
6-9-95	0837			.0519		
	1009			.0517	.0861	.0753
			25600			
	1010	1		.0467		
	1011	2		.0457		
	1151			.0408		
	1345			.0401		
	1514			.0398		
	1615			.0396	.0982	.0837
	Reload		6400			
	1616	1		.0421		
	1617	2		.0422		
	1726			.0428		
6-10-95	0937			.0420	.0958	.0845
			1600			
	0938	1		.0453		
	0939	2		.0454		
	1041			.0456	.0922	.0826
			400			
	1042	1		.0499		
	1043	2		.0500		
	1135			.0507		
	1320			.0511	.0867	.0789
			100			
	1321	1		.0538		
	1322	2		.0540		
	1435			.0548		
	1535			.0550	.0828	.0760

DATE	TIME	E-LAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOL-IDATION

CONSOLIDATION TEST
ASTM D-2435

CLIENT SAIC/Parsons PO 140 JOB NO. 2059-13H

BORING NO.	G2-130	SAMPLED	4-25-95 MM
DEPTH	15.0-17.0'	TEST STARTED	6-9-95 WEB
SAMPLE NO.	405080	TEST FINISHED	6-19-95 DPM
SOIL DESCR.	Fernald	CELL NUMBER	ATT-3
Note: Natural Moisture			
SAMPLE DIA.(in)	2.410	INITIAL HT.(in)	1.000

MOISTURE/DENSITY DATA	BEFORE TEST	AFTER TEST
Wt. Soil & Ring(s) (g)	220.0	211.5
Wt. Ring(s) (g)	46.1	46.1
Wt. Soil (g)	173.9	165.4
Wet Density PCF	145.2	144.5
Wt. Wet Soil & Pan (g)	182.4	173.9
Wt. Dry Soil & Pan (g)	164.3	164.3
Wt. Lost Moisture (g)	18.1	9.6
Wt. of Pan Only (g)	8.5	8.5
Wt. of Dry Soil (g)	155.8	155.8
Moisture Content %	11.6	6.2
Dry Density PCF	130.1	136.1

LOAD (PSF)	CONSOL. (IN.)
100	0.0000
200	0.0064
400	0.0059
800	0.0088
1600	0.0112
3200	0.0157
6400	0.0180
12800	0.0222
25600	0.0283
6400	0.0286
1600	0.0286
400	0.0300
100	0.0318

LOAD (PSF)	LOG p	CONSOL. (IN.)	DEFL. (IN.)	VOID RATIO e
100	2.000	0.0000	0.0000	0.3387
200	2.301	0.0064	-0.0064	0.3301
400	2.602	0.0059	-0.0059	0.3308
800	2.903	0.0088	-0.0088	0.3269
1600	3.204	0.0112	-0.0112	0.3237
3200	3.505	0.0157	-0.0157	0.3177
6400	3.806	0.0180	-0.0180	0.3146
12800	4.107	0.0222	-0.0222	0.3090
25600	4.408	0.0283	-0.0283	0.3008
6400	3.806	0.0286	-0.0286	0.3004
1600	3.204	0.0286	-0.0286	0.3004
400	2.602	0.0300	-0.0300	0.2986
100	2.000	0.0318	-0.0318	0.2961

% Saturation	95.8
Sp. Gr. (g/cc)	2.790
Init. Ht. Solids (cm)	1.897
Init. Ht. Voids (cm)	0.643
Init. Void Ratio	0.3387

Data entry by: NAA Date: 6-21-95
Data checked by:_____ Date:_____
FileName:SAC05080

ADVANCED TERRA TESTING, INC.

TIME READING DATA

G2-130
15.0-17.0'

1600 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.3304	0.0000
0.1	0.32	0.3294	-0.0010
0.3	0.50	0.3293	-0.0011
0.5	0.71	0.3293	-0.0011
1.0	1.00	0.3292	-0.0012
2.0	1.41	0.3292	-0.0012
4.0	2.00	0.3291	-0.0013
9.0	3.00	0.3290	-0.0014
16.0	4.00	0.3289	-0.0015
30.0	5.48	0.3288	-0.0016
60.0	7.75	0.3286	-0.0018
120.0	10.95	0.3283	-0.0021
240.0	15.49	0.3278	-0.0026
480.0	21.91	0.3271	-0.0033

3200 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.3255	0.0000
0.1	0.32	0.3243	-0.0012
0.3	0.50	0.3242	-0.0013
0.5	0.71	0.3241	-0.0014
1.0	1.00	0.3240	-0.0015
2.0	1.41	0.3240	-0.0015
4.0	2.00	0.3239	-0.0016
9.0	3.00	0.3238	-0.0017
16.0	4.00	0.3237	-0.0018
30.0	5.48	0.3233	-0.0022
60.0	7.75	0.3231	-0.0024
120.0	10.95	0.3226	-0.0029
240.0	15.49	0.3219	-0.0036
480.0	21.91	0.3209	-0.0046

6400 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.3160	0.0000
0.1	0.32	0.3154	-0.0006
0.3	0.50	0.3153	-0.0007
0.5	0.71	0.3152	-0.0008
1.0	1.00	0.3152	-0.0008
2.0	1.41	0.3151	-0.0009
4.0	2.00	0.3150	-0.0010
9.0	3.00	0.3149	-0.0011
16.0	4.00	0.3148	-0.0012
30.0	5.48	0.3146	-0.0014
60.0	7.75	0.3144	-0.0016
120.0	10.95	0.3139	-0.0021
240.0	15.49	0.3133	-0.0027
480.0	21.91	0.3126	-0.0034

12800 psf Load

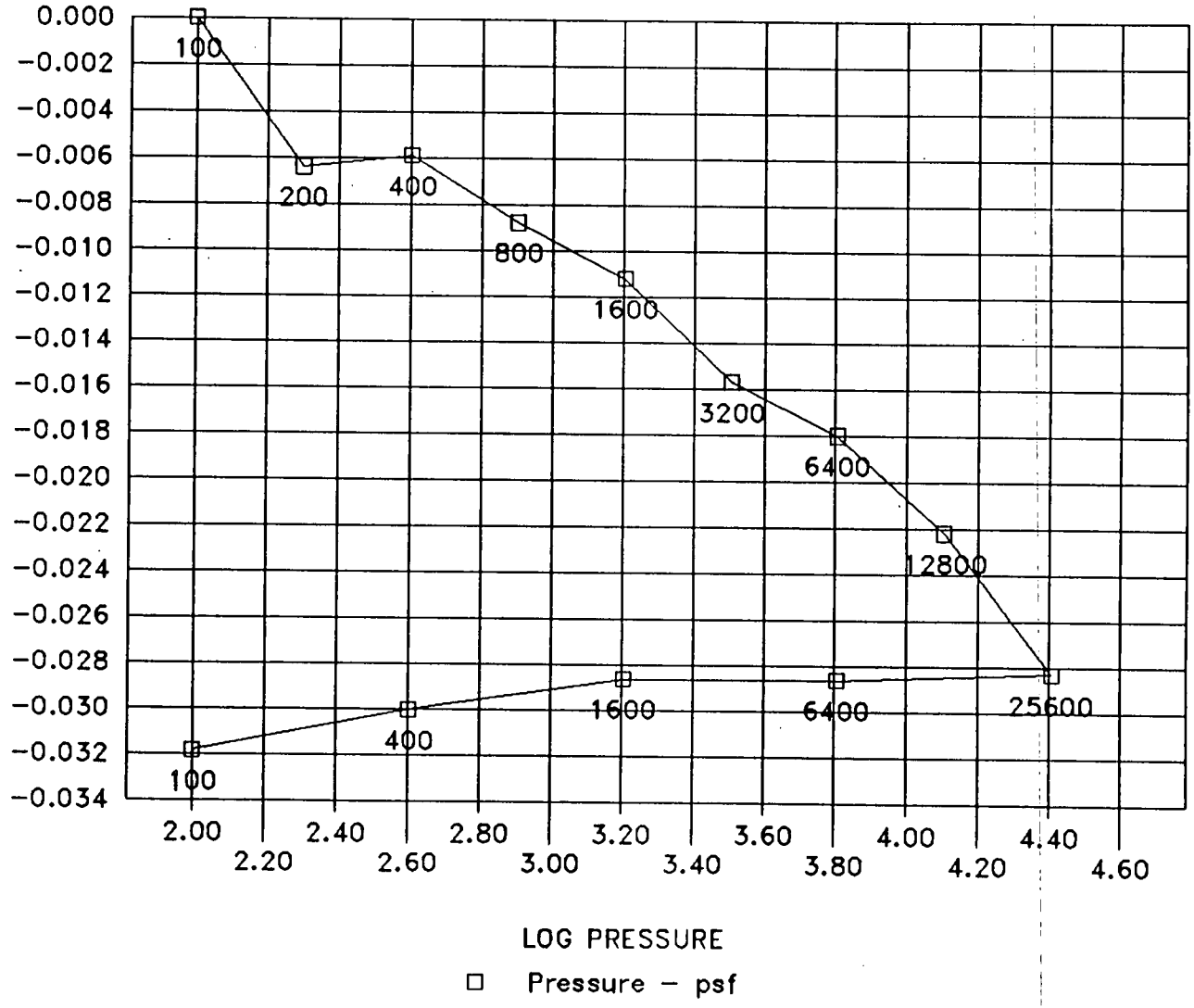
Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.3109	0.0000
0.1	0.32	0.3087	-0.0022
0.3	0.50	0.3086	-0.0023
0.5	0.71	0.3085	-0.0024
1.0	1.00	0.3084	-0.0025
2.0	1.41	0.3083	-0.0026
4.0	2.00	0.3082	-0.0027
9.0	3.00	0.3081	-0.0028
16.0	4.00	0.3079	-0.0030
30.0	5.48	0.3078	-0.0031
60.0	7.75	0.3076	-0.0033
120.0	10.95	0.3072	-0.0037
240.0	15.49	0.3066	-0.0043

Data entry by: NAA Date: 6-21-95
Data checked by: cal Date: 6-23-95
FileName:SAC05080

ADVANCED TERRA TESTING, INC.

CONSOLIDATION TEST DATA

G2-130,405080,15.0-17.0'



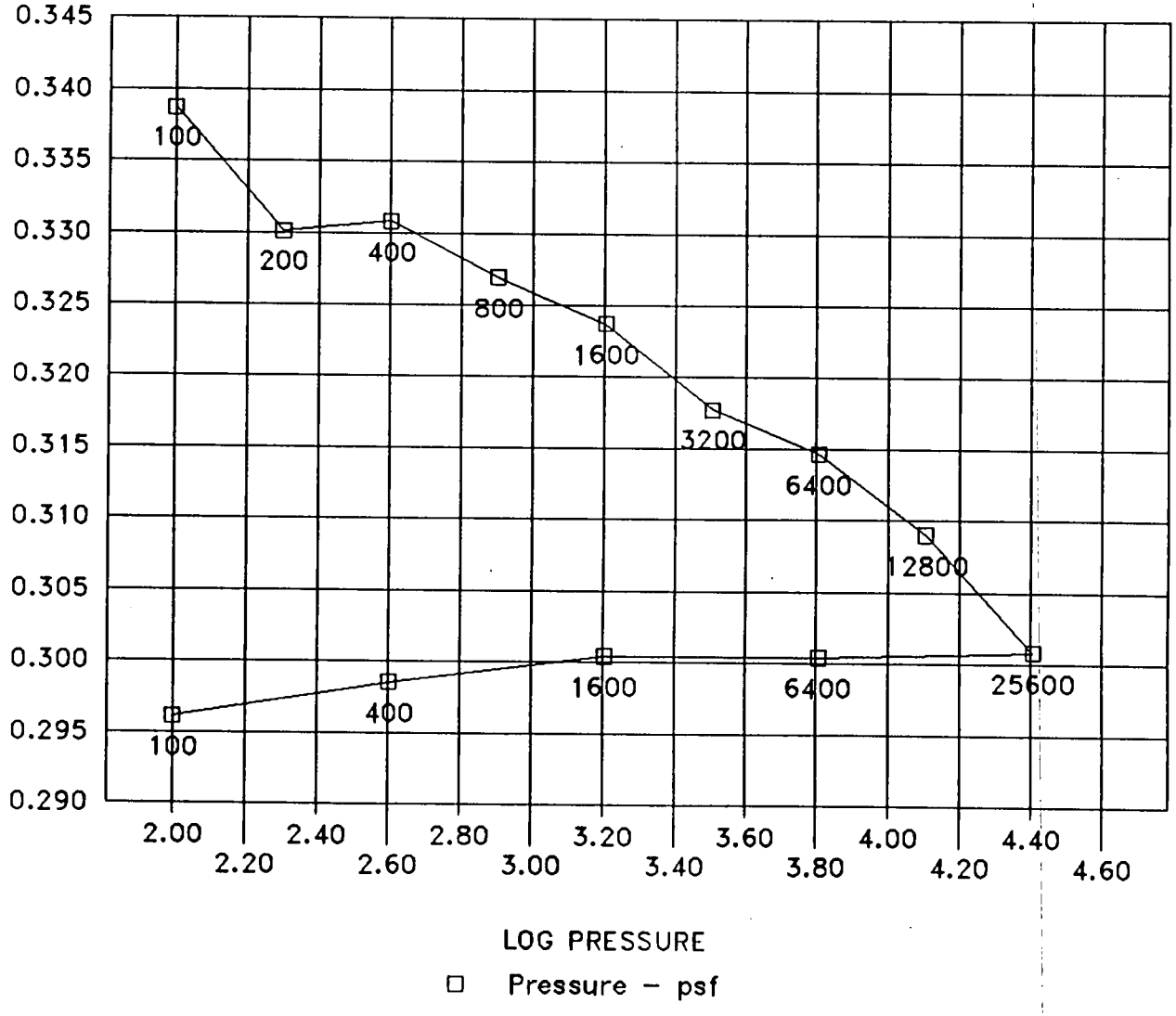
585

000651

474

CONSOLIDATION TEST DATA

G2-130,405080,15.0-17.0'



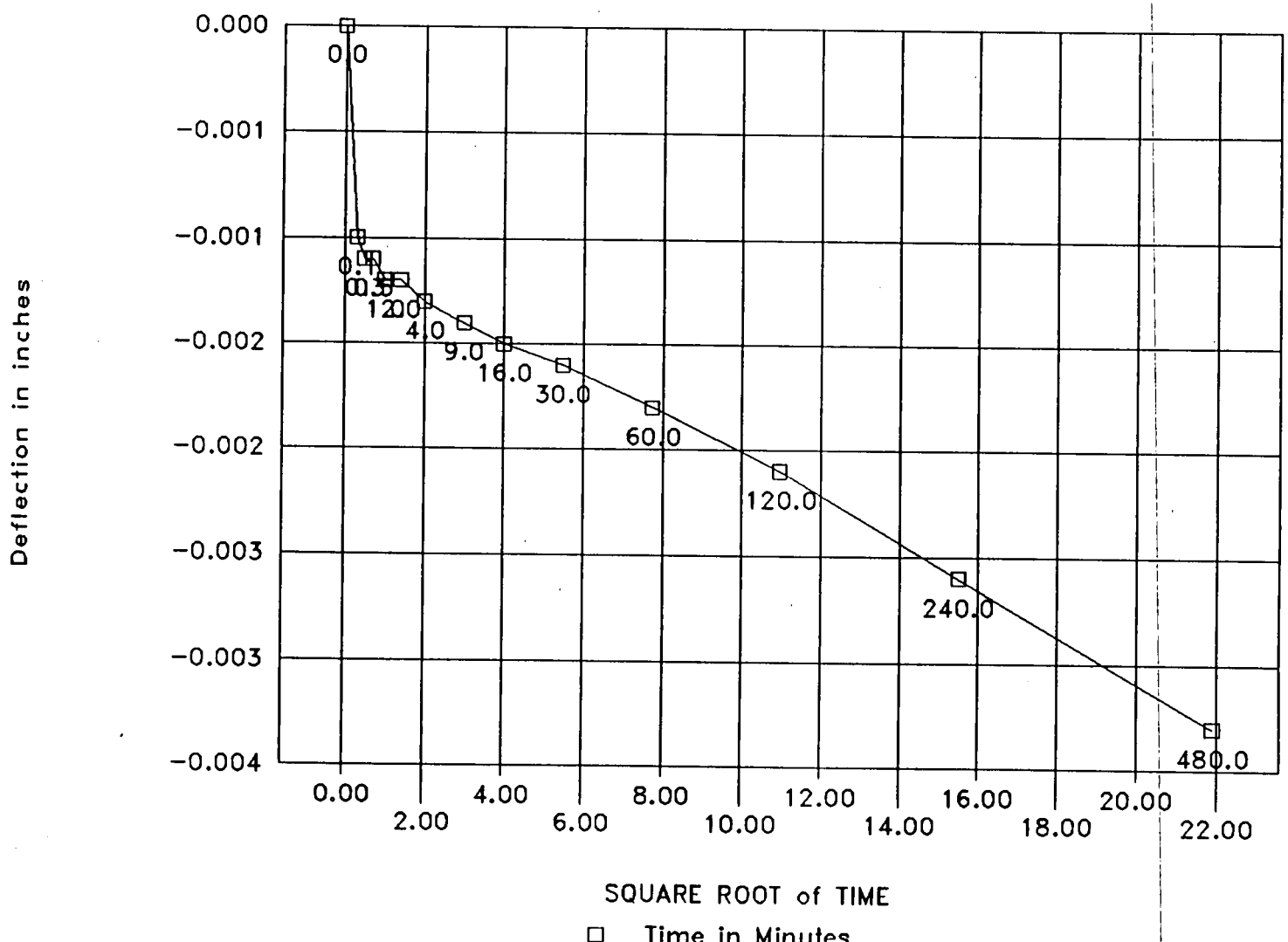
586

000652

474

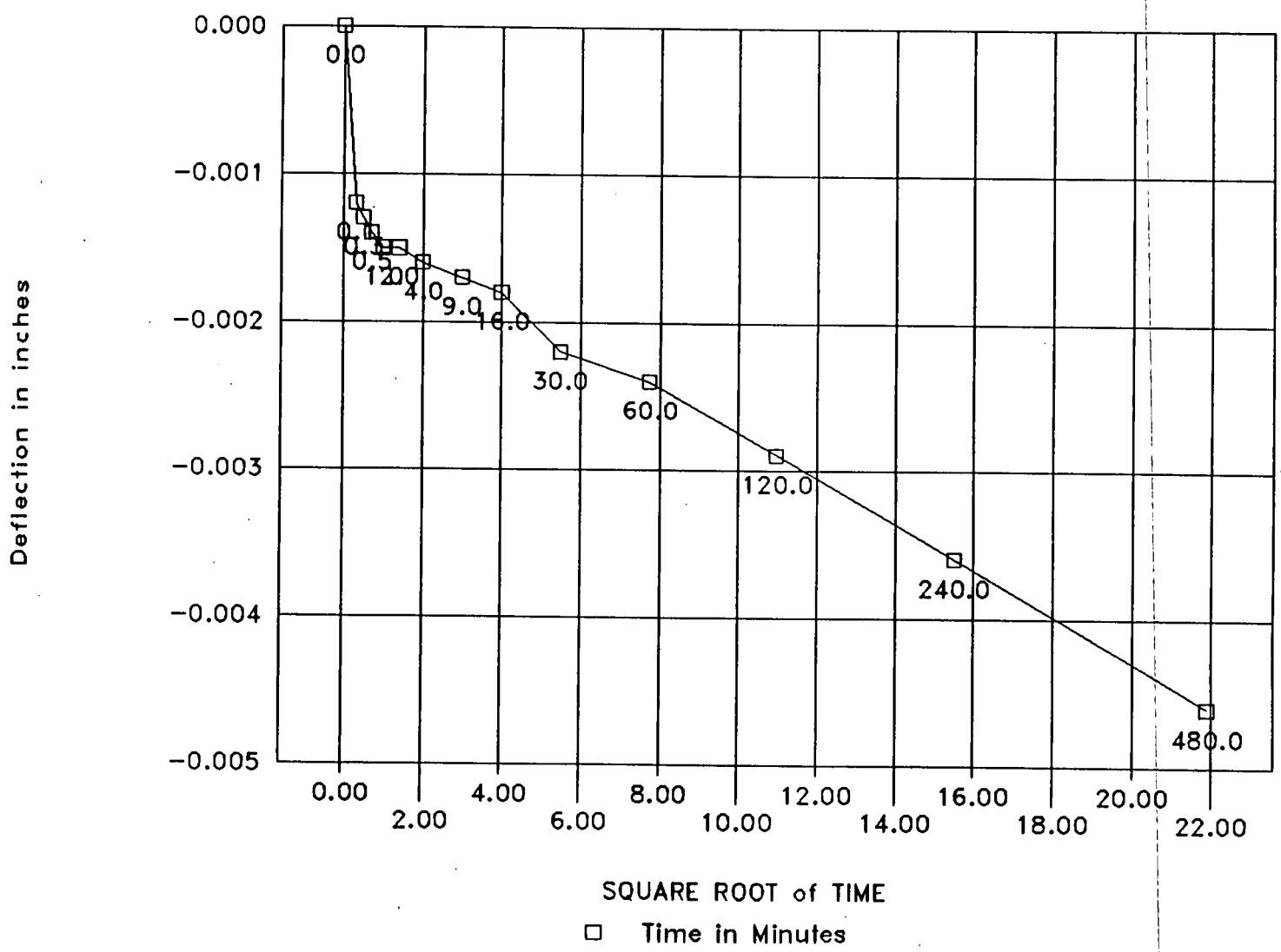
TIME READING DATA

G2-130,405080,15.0-17.0',1600 psf Load



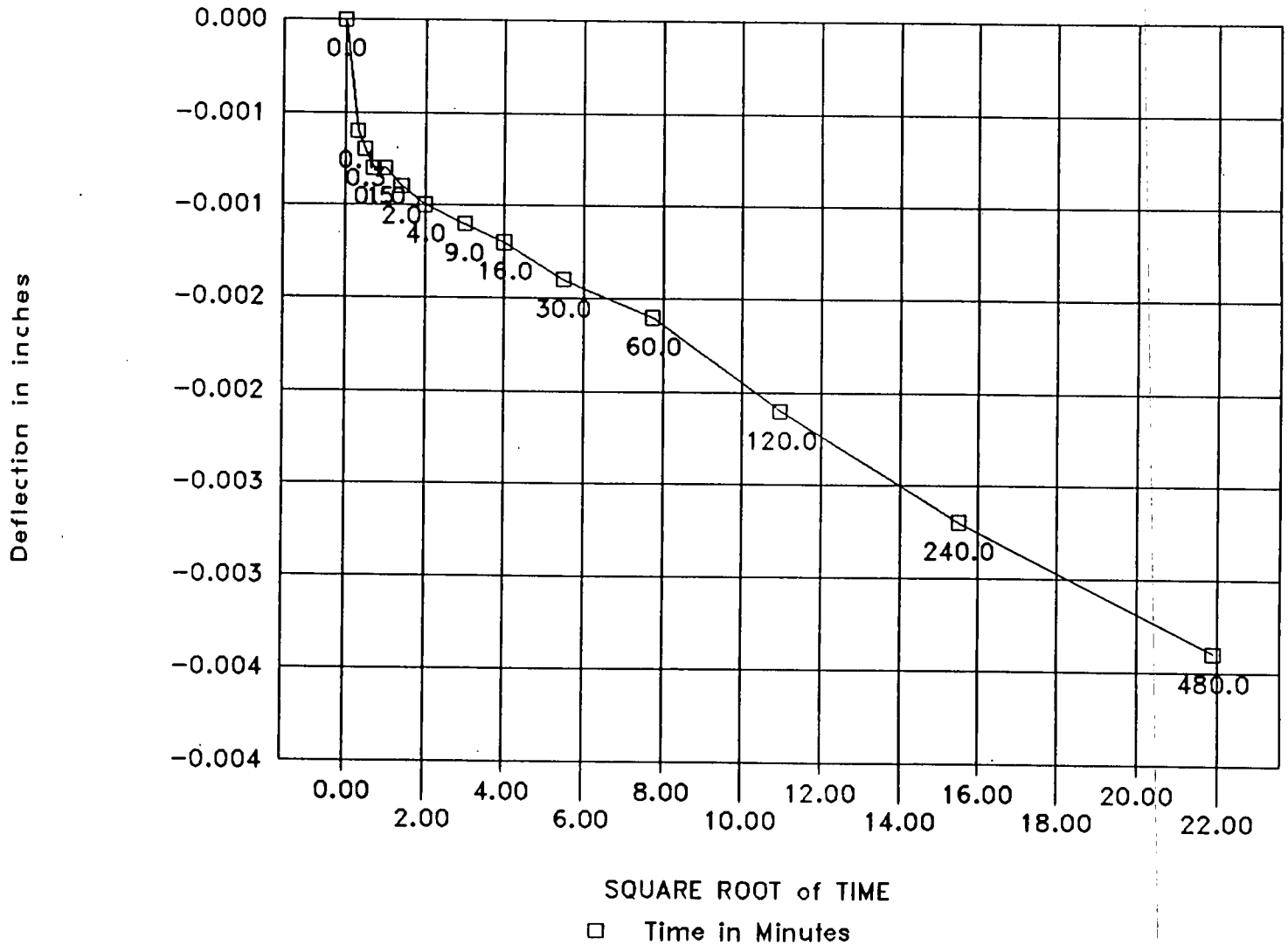
TIME READING DATA

G2-130,405080,15.0-17.0',3200 psf Load



TIME READING DATA

G2-130,405080,15.0-17.0',6400 psf Load



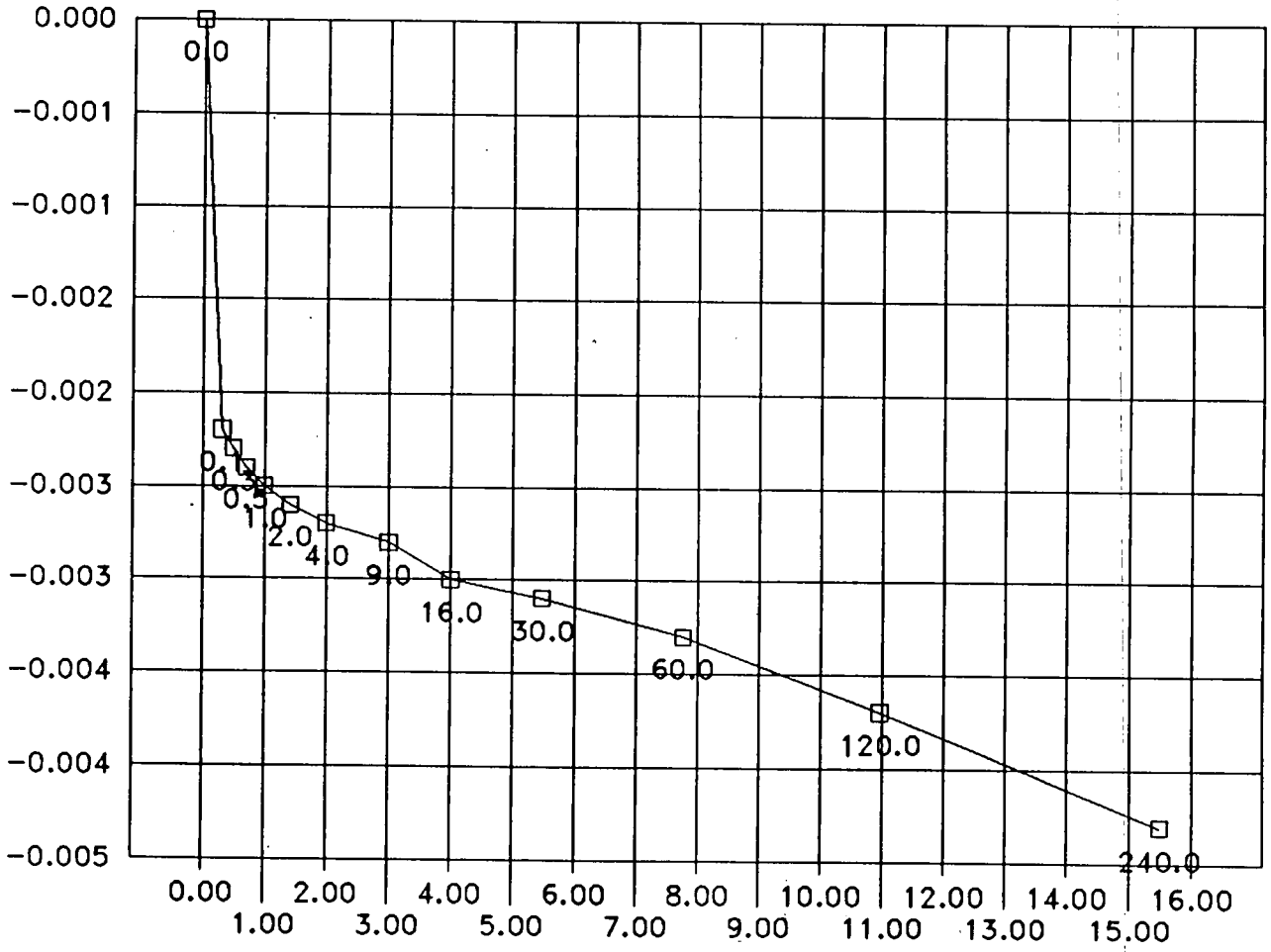
589

000655

474

TIME READING DATA

G2-130,405080,15.0-17.0',12800 psf Load



590

000656

474

CONSOLIDATION TEST DATA SHEET

SAIC5080 SAIC5080 2 SAIC5080 ✓ 3✓ SAIC5080 ✓ 4

JOB SAIC / PARSONS PO 140 JOB NO. 2059-13H

DATE SAMPLED 4-25-95 mm BORING NO. 62-130

TEST STARTED 6-9-95 BY WEB TEST FINISHED 6/17/95 BY OPM DEPTH 15.0 - 17.0'

SOIL TYPE Fernald Sample # 405080

CONSOLIDOMETER NO. ATT-3 INITIAL SAMPLE HEIGHT 1.00" D_o = 2.41"

MOISTURE & DENSITY DATA	BEFORE TEST	AFTER TEST
WT. OF RING(S) + SOIL	220.04g	211.53
WT. OF RING(S) ONLY weigh after	46.12g	
WT. OF SOIL (NET)		
WET DENSITY IN LBS/CU. FT.*		
WT. OF WET SOIL + DISH NO. 624		219.99
INT. OF DRY SOIL + DISH		
WT. OF LOST MOISTURE		
WT. OF DISH ONLY		8.46
WT. OF DRY SOIL		
MOISTURE AS % OF DRY WT.		
DRY DENSITY IN LBS/CU. FT.		

TEST INSTRUCTIONS

LOAD CYCLE 100 200 400 800 1600 TR 3200 TR 6400 TR 12800 TR 25600 Rebound x 2

SPECIAL INSTRUCTION AND NOTES

Dry Wt Soil + Ring + Pan = 210.38

Natural Moisture! CON

SP. GR. = 2.79

DATE	TIME	E-LAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.) WB	CONSOL. UNDER THIS LOAD 400	TOTAL CONSOL-IDATION
6-9-95	1356		100	~~.5141~~	.3569	
	1406	10		.3459	.3559	.0000
			200			
	1407	1		.3446	.3546	
	1408	2		.3444	.3544	
	1613			.3420	.3520	
	728			.3414	.3514	
6-10-95	0436				.3381	
	1037				.3380	.0029
			400			.0064
	1038	1		.3375	~~.3375~~	
	1039	2		.3374	~~.3374~~	
	1133			.3369		
	1319			.3364		
	1430			.3362	.0097	.0059
			800			
	1431	1		.3353		
	1432	2		.3352		
	1532			.3345		
6-11-95	1119			.3320	.0155	
6-12-95	0823			.3304	.0255	.0088
			1600			
	0823	.1		.3294		
		.25		.3293		
		.5		.3293		
	0824	1		.3292		
	0825	2		.3292		
	0827	4		.3291		
	0832	9		.3290		
	0839	16		.3289		

DATE	TIME	E-LAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOL-IDATION
6-12-95	0853	30	1600 cont	.3288		
	0923	60		.3286		
	1023	120		.3283		
	1223	240		.3278		
	1623	480		.3271	.0204	.0112
6-13-95	0819			.3255	~~.0304~~	~~.0212~~
			3200			
		.1		~~.3255~~ .3243		
		.25		.3242		
		.5		.3241		
	0820	1		.3240		
	0821	2		.3240		
	0823	4		.3239		
	0828	9		.3238		
	0835	16		.3237	Frame bumped Reset to	.3216
	0849	30	.3233	~~.3212~~		
	0919	60	.3231	~~.3210~~		
	1019	120	.3226	~~.3205~~ WB		
	1219	240	.3219	~~.3198~~		
	1619	480	.3209	~~.3188~~	.0278	.0157
6-14-95	0825		.3181	~~.3160~~	~~.0344~~	~~.0278~~
			6400			
		.1		.3154		
		.25		.3153		
		.5		.3152		
	0826	1		.3152		
	0827	2		.3151		
	0829	4		.3150		
	0834	9		.3149		
	0841	16		.3148		

CONTINUED ON REVERSE SIDE

ADVANCED TERRA TESTING

SHIC / PARSONS TUIMU CONT-15A
G2-130 15.0-17.0'
405080

CONSOLIDATION TEST DATA SHEET (CONTINUED)

DATE	TIME	E-LAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOL-IDATION
6-14-95	0855	30	640 cont	.3146		
	0925	60		.3144		
	1025	120		.3139		
	1225	240		.3133		
	1625	480		.3126	.0329	.0180
6-15-95	0828		.3130	~~.3109~~	~~.0450~~	~~.0307~~
			12800			
		.1		.3087		
		.25		.3086		
		.5		.3085		
	0829	1		.3084		
	0830	2		.3083		
	0832	4		.3082		
	0837	9		.3081		
	0844	16		.3079		
	0858	30		.3078		
	0928	60		.3076		
	1028	120		.3072		
	1228	240		.3066		
	1628	480			.0391	.0222
6-16-95	812		.3068	~~.3047~~	~~.0572~~	~~.0343~~
	813	1	25600	.3010		
	814	2		.3008		
	908	56		.2994		
	1015			.2984		
	1125			.2985		
	12:00			.2980	.0461	.0283
	1420		.2998	~~.2977~~	~~.0582~~	~~.0404~~
	14:24	1	6400	.3001		
	14:35	2		.3008		
	1523			.3010	.0428	.0286
	1624		.3031	~~.3010~~	~~.0549~~	~~.0407~~
	1631	1	1600	.3028		
	1632	2		.3030	.0402	.0286
6-17-95	0753		.3057	~~.3036~~	~~.0525~~	~~.0407~~
			400			
	0855	1		.3045		
	0836	2		.3046		
	0901			.3048	.0384	.0300
	1240			.3050	~~.0158~~	~~.0074~~ na
6-18-95	0814		.3075	~~.3054~~	~~.0503~~	~~.0419~~
			100			
	0936	1		.3062		
	0937	2		.3062		
	1027			.3063	.0372	.0318
6-19-95	0954			.3067	~~.0125~~	~~.0071~~ na
	1211		.3087	~~.3066~~	~~.0443~~	~~.0439~~

DATE	TIME	E-LAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOL-IDATION

CONSOLIDATION TEST
ASTM D-2435

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13A

BORING NO.	G2-131	SAMPLED	4-13-95 MA
DEPTH	17.5-19.5'	TEST STARTED	6-1-95 DSR
SAMPLE NO.	404709	TEST FINISHED	6-9-95 WB
SOIL DESCR.	Fernald	CELL NUMBER	ATT-3

Note: Natural Moisture

SAMPLE DIA.(in) 2.410

INITIAL HT.(in) 1.000

MOISTURE/DENSITY DATA	BEFORE TEST	AFTER TEST
Wt. Soil & Ring(s) (g)	216.4	210.8
Wt. Ring(s) (g)	46.0	46.0
Wt. Soil (g)	170.4	164.8
Wet Density PCF	142.3	142.3
Wt. Wet Soil & Pan (g)	174.3	168.7
Wt. Dry Soil & Pan (g)	153.9	153.9
Wt. Lost Moisture (g)	20.4	14.8
Wt. of Pan Only (g)	3.9	3.9
Wt. of Dry Soil (g)	150.0	150.0
Moisture Content %	13.6	9.9
Dry Density PCF	125.3	129.5

LOAD (PSF)	CONSOL. (IN.)
100	0.0000
200	0.0044
400	0.0053
800	0.0079
1600	0.0122
3200	0.0145
6400	0.0181
12800	0.0241
25600	0.0315
6400	0.0317
1600	0.0316
400	0.0322
100	0.0341

LOAD (PSF)	LOG p	CONSOL. (IN.)	DEFL. (IN.)	VOID RATIO e
100	2.000	0.0000	0.0000	0.3605
200	2.301	0.0044	-0.0044	0.3545
400	2.602	0.0053	-0.0053	0.3533
800	2.903	0.0079	-0.0079	0.3497
1600	3.204	0.0122	-0.0122	0.3439
3200	3.505	0.0145	-0.0145	0.3408
6400	3.806	0.0181	-0.0181	0.3359
12800	4.107	0.0241	-0.0241	0.3277
25600	4.408	0.0315	-0.0315	0.3176
6400	3.806	0.0317	-0.0317	0.3174
1600	3.204	0.0316	-0.0316	0.3175
400	2.602	0.0322	-0.0322	0.3167
100	2.000	0.0341	-0.0341	0.3141

% Saturation	102.9
Sp. Gr. (g/cc)	2.730
Init. Ht. Solids (cm)	1.867
Init. Ht. Voids (cm)	0.673
Init. Void Ratio	0.3605

Data entry by: NAA Date: 6-12-95
Data checked by: [illegible] Date: 8-12-95
FileName:SAC0709

ADVANCED TERRA TESTING, INC.

TIME READING DATA

G2-131
17.5-19.5'

1600 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.3270	0.0000
0.1	0.32	0.3258	-0.0012
0.3	0.50	0.3257	-0.0013
0.5	0.71	0.3256	-0.0014
1.0	1.00	0.3255	-0.0015
2.0	1.41	0.3254	-0.0016
4.0	2.00	0.3253	-0.0017
9.0	3.00	0.3251	-0.0019
16.0	4.00	0.3250	-0.0020
30.0	5.48	0.3248	-0.0022
60.0	7.75	0.3246	-0.0024
120.0	10.95	0.3243	-0.0027
240.0	15.49	0.3239	-0.0031
480.0	21.91	0.3232	-0.0038

3200 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.3202	0.0000
0.1	0.32	0.3193	-0.0009
0.3	0.50	0.3192	-0.0010
0.5	0.71	0.3191	-0.0011
1.0	1.00	0.3191	-0.0011
2.0	1.41	0.3190	-0.0012
4.0	2.00	0.3189	-0.0013
9.0	3.00	0.3187	-0.0015
16.0	4.00	0.3186	-0.0016
30.0	5.48	0.3185	-0.0017
60.0	7.75	0.3183	-0.0019
120.0	10.95	0.3180	-0.0022
240.0	15.49	0.3175	-0.0027
480.0	21.91	0.3168	-0.0034

6400 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.3150	0.0000
0.1	0.32	0.3136	-0.0014
0.3	0.50	0.3135	-0.0015
0.5	0.71	0.3134	-0.0016
1.0	1.00	0.3133	-0.0017
2.0	1.41	0.3132	-0.0018
4.0	2.00	0.3131	-0.0019
9.0	3.00	0.3129	-0.0021
16.0	4.00	0.3127	-0.0023
30.0	5.48	0.3125	-0.0025
60.0	7.75	0.3123	-0.0027
120.0	10.95	0.3120	-0.0030
240.0	15.49	0.3113	-0.0037
480.0	21.91	0.3105	-0.0045

12800 psf Load

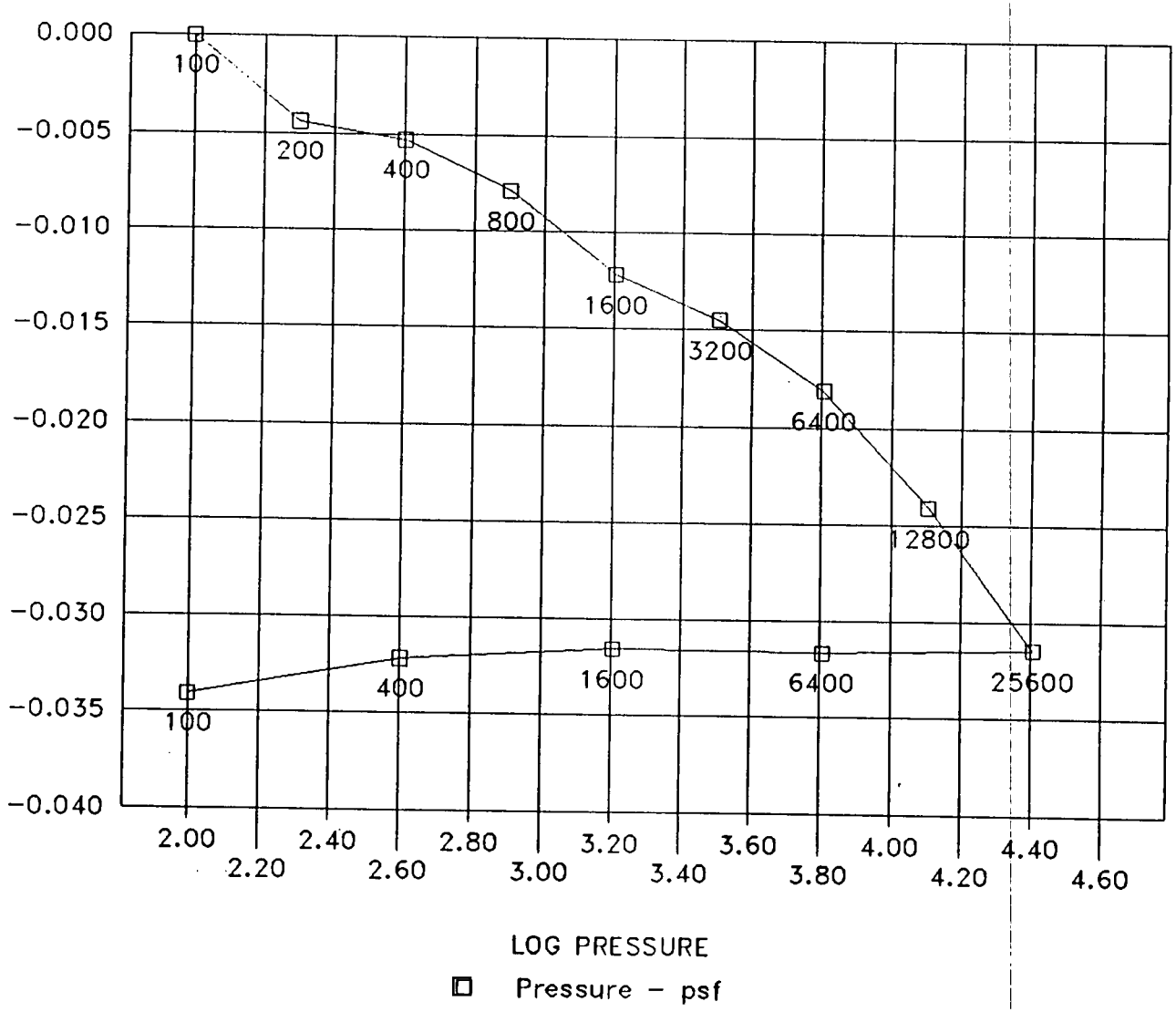
Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.3086	0.0000
0.1	0.32	0.3064	-0.0022
0.3	0.50	0.3062	-0.0024
0.5	0.71	0.3060	-0.0026
1.0	1.00	0.3059	-0.0027
2.0	1.41	0.3057	-0.0029
4.0	2.00	0.3055	-0.0031
9.0	3.00	0.3052	-0.0034
16.0	4.00	0.3051	-0.0035
30.0	5.48	0.3049	-0.0037
60.0	7.75	0.3046	-0.0040
120.0	10.95	0.3042	-0.0044
240.0	15.49	0.3036	-0.0050
480.0	21.91	0.3027	-0.0059

Data entry by: NAA Date: 6-12-95
Data checked by: DSR Date: 6-12-95
FileName:SAC0709

ADVANCED TERRA TESTING, INC.

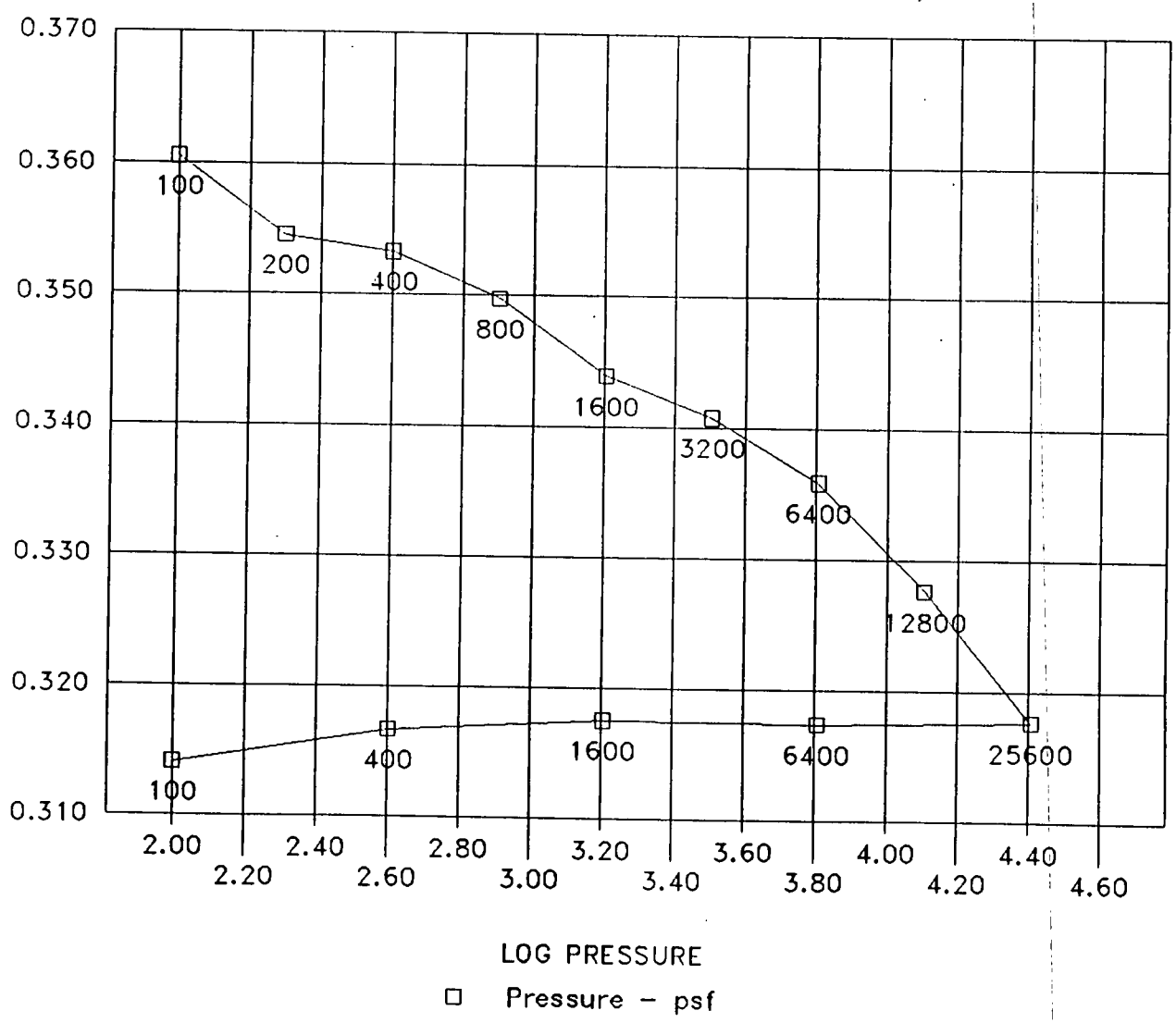
CONSOLIDATION TEST DATA

G2-131,404709,17.5-19.5'



CONSOLIDATION TEST DATA

G2-131,404709,17.5-19.5'



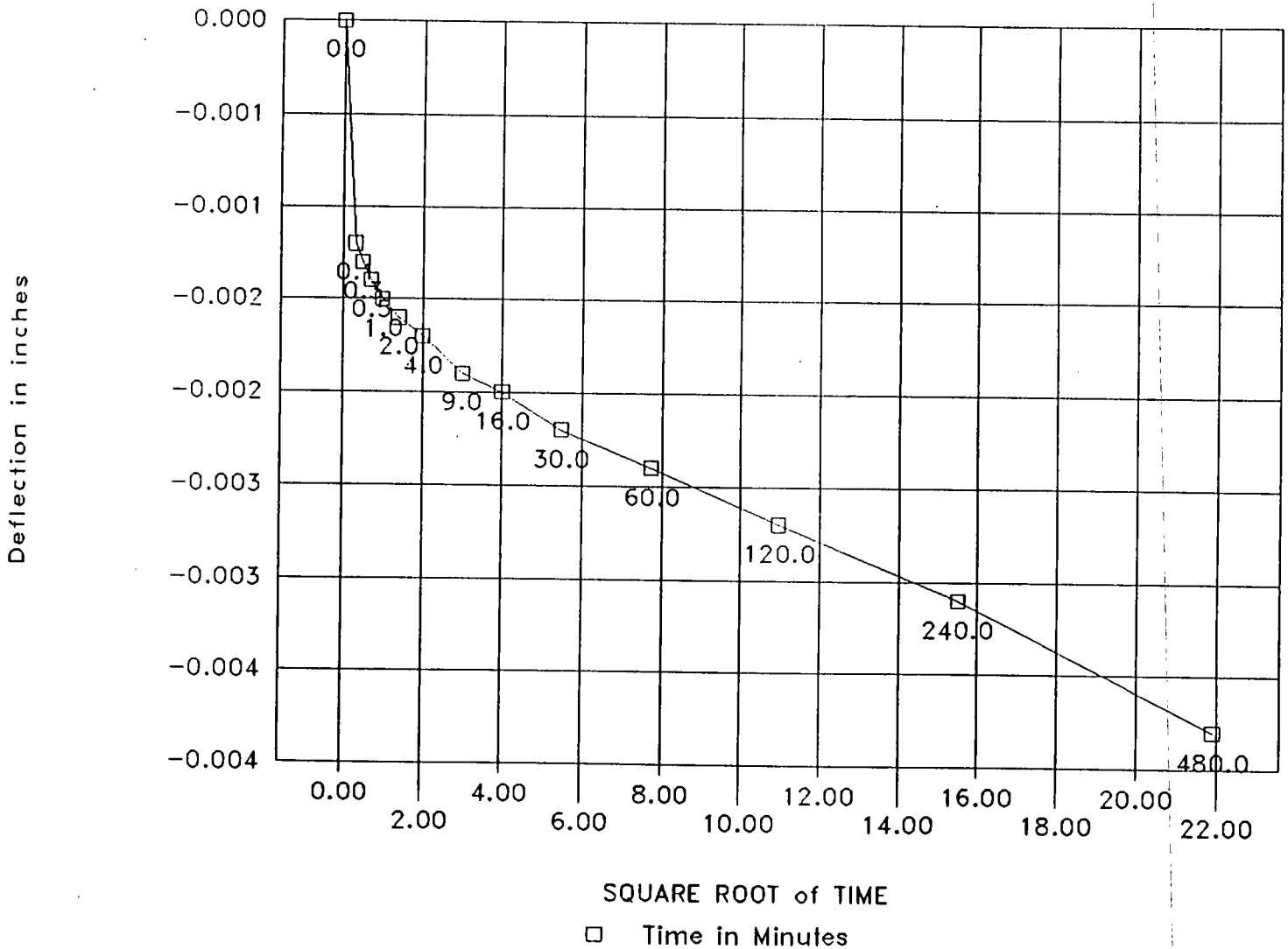
596

000962

474

TIME READING DATA

G2-131,404709,17.5-19.5',1600 psf Load



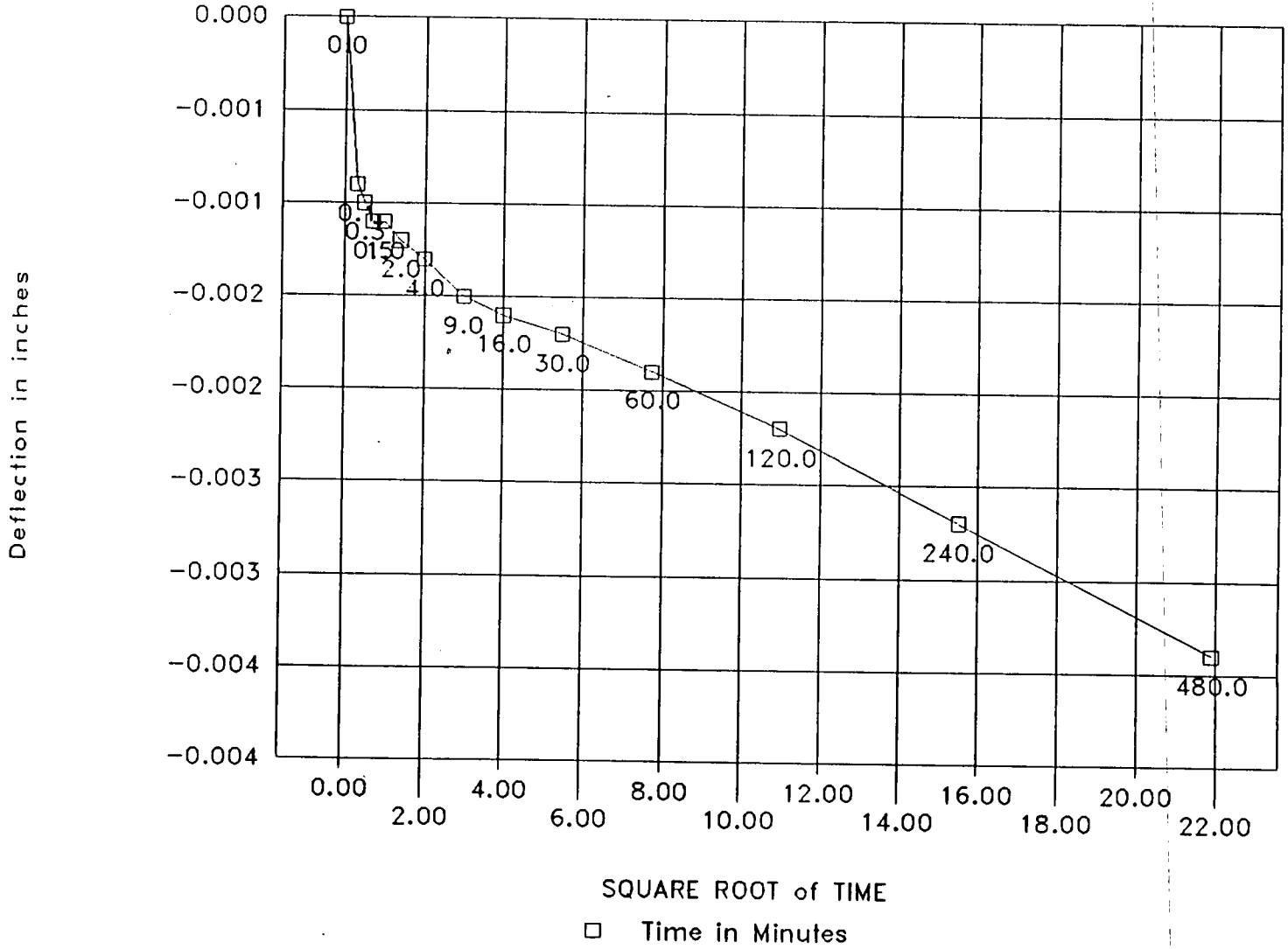
597

000363

474

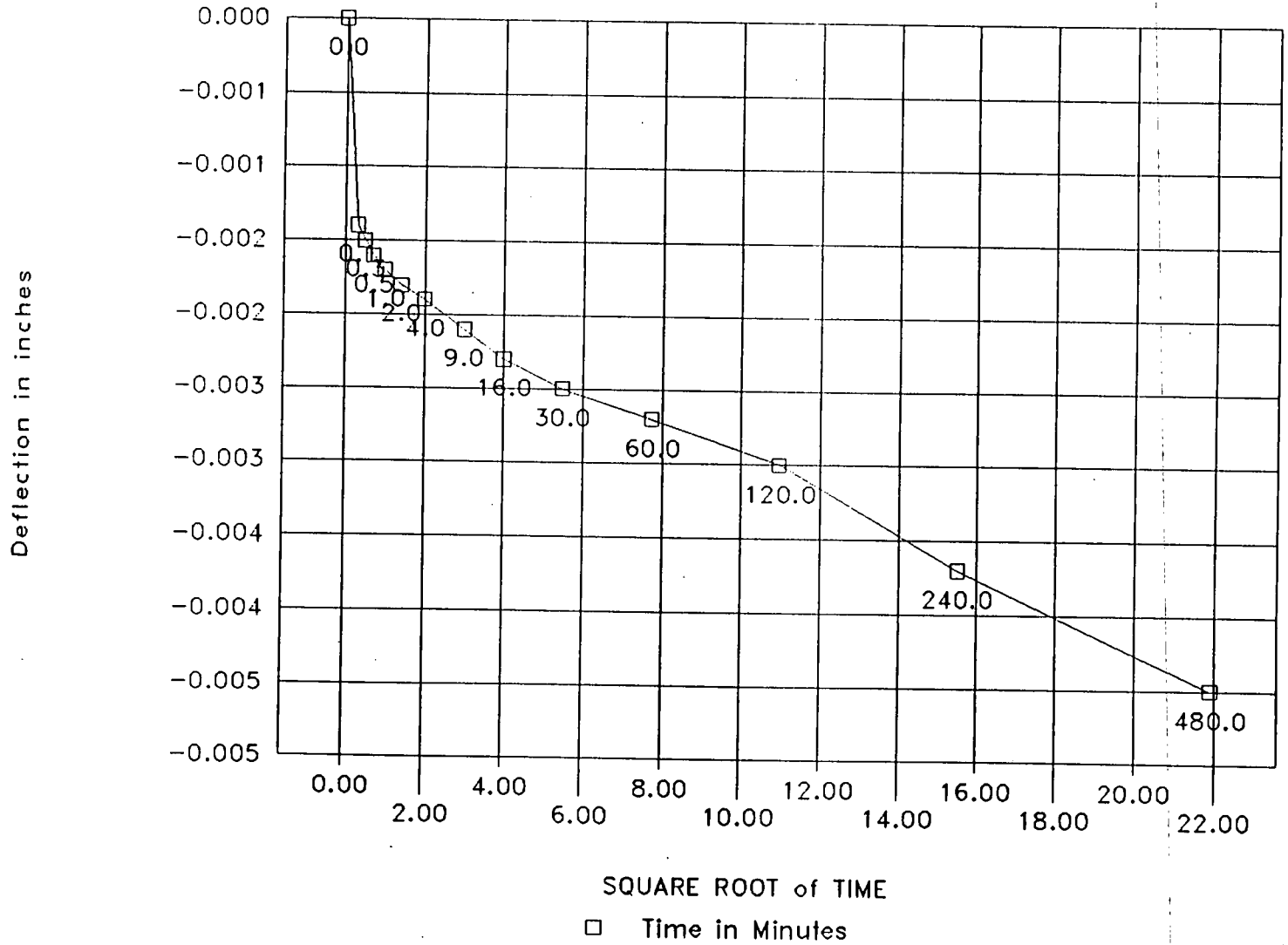
TIME READING DATA

G2-131,404709,17.5-19.5',3200 psf Load



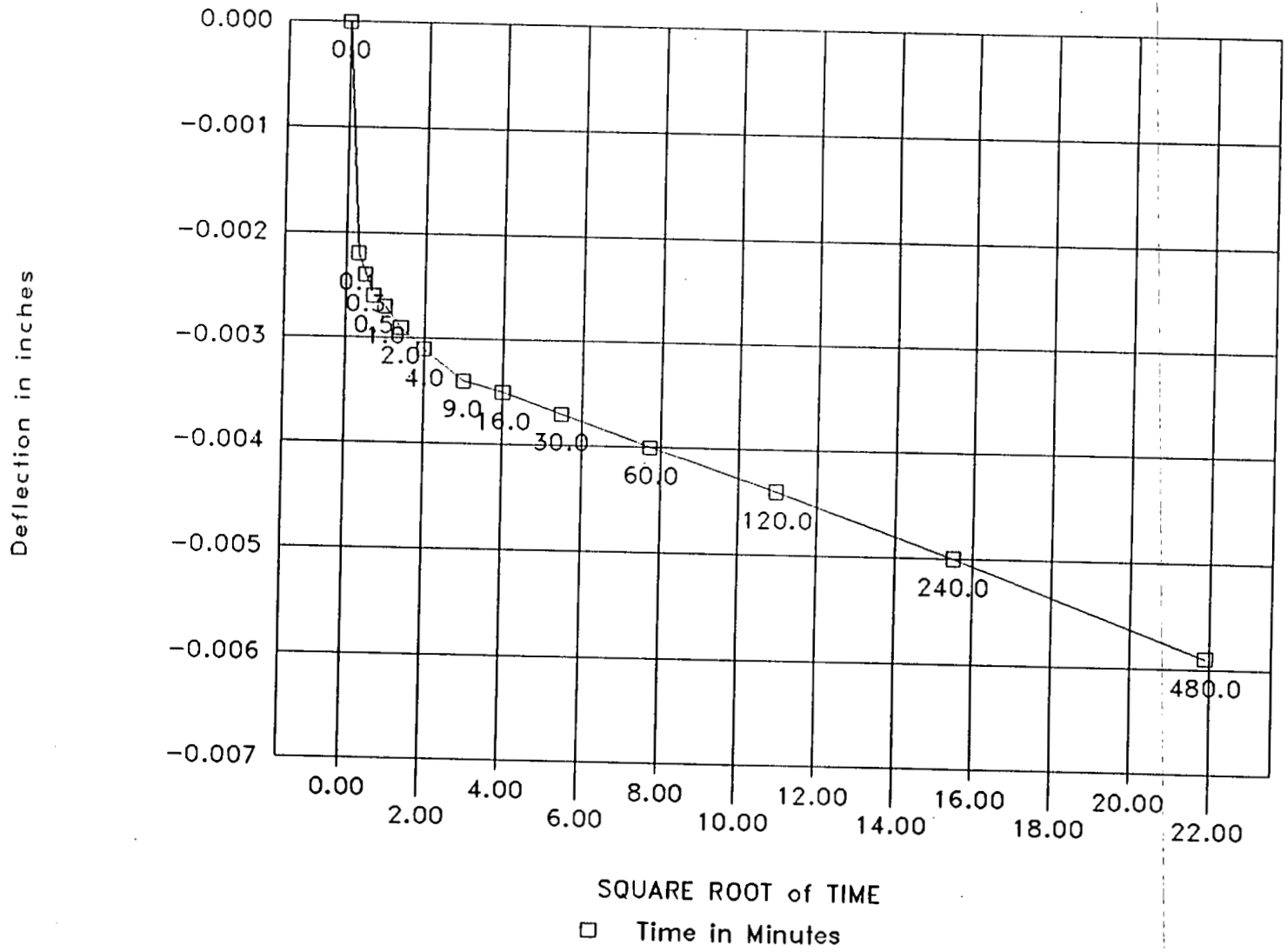
TIME READING DATA

G2-131,404709,17.5-19.5',6400 psf Load



TIME READING DATA

G2-131,404709,17.5-19.5',12800 psf Load



SACC1Ø7 SAC1Ø4 2
SACC7Ø9 3
SACE7Ø9 4

CONSOLIDATION TEST DATA SHEET

JOB SAIC / PARSONS — JOB NO. 2059-13A
DATE SAMPLED 4-13-95 MG — BORING NO. G2-131
TEST STARTED 6-1-95 BY DOR — TEST FINISHED 6-9-95 BY WB — DEPTH 17.5-19.5'
SOIL TYPE FERNALD — SAMPLE # 404709 (A)
CONSOLIDOMETER NO. ATT-3 — INITIAL SAMPLE HEIGHT H_0 = 1.00" D_0 = 2.410"

MOISTURE & DENSITY DATA	BEFORE TEST	AFTER TEST
WT. OF RING(S)+ SOIL	216.38	210.82
WT. OF RING(S) ONLY	45.98	
WT. OF SOIL (NET)		
WET DENSITY IN LBS/CU. FT.*		
WT. OF WET SOIL + DISH NO. A7		
INT. OF DRY SOIL + DISH		
WT. OF LOST MOISTURE		
WT. OF DISH ONLY	3.86	
WT. OF DRY SOIL		
MOISTURE AS % OF DRY WT.		
DRY DENSITY IN LBS/CU. FT.		

TEST INSTRUCTIONS

LOAD CYCLE 100, 200, 400, 800, 1600 TR, 3200 TR, 6400 TR, 12800 TR, 25600 TR

REBOUND x 2

SPECIAL INSTRUCTION AND NOTES
DRY WT SOIL PAN & RING = 199.85

NATURAL MOISTURE TEST!! CON

SpGr = 2.73

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOLIDATION
6-1-95	1430	0	100	~~.3444~~ DOR .3421		
	1441	11		.3416 DOR ~~.3416~~	.0000	
			200			
	1442	1		.3409		
	1443	2		.3408		
	1607			.3395		
	1715			.3390		
6-2-95	811			.3361		.0044 DOR
	0931			.3357	.0059	~~.0049~~
			400			
	0933	1		.3346		
	0934	2		.3345		
	1114			.3336		
	1224			.3332		
	1435			.3328		.0053 DOR
	1538			.3325	.0091	~~.0064~~
			800			
	1539	1		.3310		
	1540	2		.3308		
	1647			.3299		.0079 DOR
6-3-95	1026			.3270	.0146	~~.0086~~
			1600			
		.1		.3258		
		.25		.3257		
		.5		.3256		
	1128	1		.3255		
	1129	2		.3254		
	1131	4		.3253		
	1136	9		.3251		
	1143	16		.3250		

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOLIDATION
6-3-95	1157	30	1600	.3248		
	1227	60		.3246		
	1327	120		.3243		
	1527	240		.3239		
	1927	480		.3232		DOR
6-4-95	0858			.3219		.0122
6-5-95	0829			.3202	.0214	~~.0123~~
			3200			
		.1		.3193		
		.25		.3192		
		.5		.3191		
	0830	1		.3191		
	0831	2		.3190		
	0833	4		.3189		
	0838	9		.3187		
	0845	16		.3186		
	0859	30		.3185		
	0929	60		.3183		
	1029	120		.3180		
	1229	240		.3175		
	1629	480		.3168		.0145
6-6-95	0824			.3150	.0266	~~.0167~~
			6400			
		.1		.3136		
		.25		.3135		
		.5		.3134		
	0825	1		.3133		
	0826	2		.3132		
	0828	4		.3131		
	0833	9		.3129		

ADVANCED TERRA TESTING

CONTINUED ON REVERSE SIDE

SINCLAIR GOMS
G2-131 17.5-19.5'
404709

CONSOLIDATION TEST DATA SHEET (CONTINUED)

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOLIDATION
6-6-95	0840	16	1400 cont	.3127		
	0854	30		.3125		
	0924	60		.3123		
	1024	120		.3120		
	1224	240		.3113		
	1624	480		.3105		.0181 DSL
6-7-95	816			.3086	.0330	~~.0284~~
		.1	12800	.3064		
		.25		.3062		
		.5		.3060		
	817	1		.3059		
	818	2		.3057		
	820	4		.3055		
	825	9		.3052		
	832	16		.3051		
	846	30		.3049		
	916	60		.3046		
	1016	120		.3042		
	1216	240		.3036		DSL
	1616	480		.3027		.0241
6-8-95	0835		7	.3006	.0410	~~.0264~~
			25600			
	0836	1		.2954		
	0837	2		.2950		
	1017			.2929		
	1125			.2925		.0315
	1238			.2923	.0493	~~.0326~~ DSL
	Rebound 6400					
	1239	1		.2954		
	1240	2		.2955		.0317 DSL
	1406			.2957	.0459	~~.0309~~
			1600			
	1407	1		.2978		
	1408	2		.2980		
	1518			.2983	.0432	0316
	1631			.2984	~~.0422~~	~~.0297~~ DSL
			400		DSL	
	1632	1		.3000		
	1633	2		.3001		.0322
6-9-95	0830			.3010	.0406	~~.0312~~
			400			
	0832	1		.3020		
	0833	2		.3020		
	1001			.3024		.0341
	1002			.3021	Frame Bumped!	
	1138			.3021	.0385	~~.0327~~

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOLIDATION

602

ATT - 3

CONSOLIDATION TEST
ASTM D-2435

CLIENT SAIC/Parsons PO 140 JOB NO. 2059-13A

BORING NO.	G2-131	SAMPLED	4-13-95 MA
DEPTH	27.5-29.5'	TEST STARTED	6-1-95 DSR
SAMPLE NO.	404713	TEST FINISHED	6-9-95 WB
SOIL DESCR.	Fernald	CELL NUMBER	ATT-2
Note: Natural Moisture			
SAMPLE DIA.(in)	2.410	INITIAL HT.(in)	1.000

MOISTURE/DENSITY DATA	BEFORE TEST	AFTER TEST
Wt. Soil & Ring(s) (g)	217.2	211.0
Wt. Ring(s) (g)	46.6	46.6
Wt. Soil (g)	170.6	164.4
Wet Density PCF	142.5	143.6
Wt. Wet Soil & Pan (g)	174.5	168.3
Wt. Dry Soil & Pan (g)	155.0	155.0
Wt. Lost Moisture (g)	19.5	13.3
Wt. of Pan Only (g)	3.9	3.9
Wt. of Dry Soil (g)	151.1	151.1
Moisture Content %	12.9	8.8
Dry Density PCF	126.2	132.0

LOAD (PSF)	CONSOL. (IN.)
100	0.0000
200	0.0074
400	0.0115
800	0.0156
1600	0.0214
3200	0.0247
6400	0.0294
12800	0.0343
25600	0.0409
6400	0.0400
1600	0.0400
400	0.0421
100	0.0437

LOAD (PSF)	LOG p	CONSOL. (IN.)	DEFL. (IN.)	VOID RATIO e
100	2.000	0.0000	0.0000	0.3754
200	2.301	0.0074	-0.0074	0.3652
400	2.602	0.0115	-0.0115	0.3596
800	2.903	0.0156	-0.0156	0.3540
1600	3.204	0.0214	-0.0214	0.3460
3200	3.505	0.0247	-0.0247	0.3414
6400	3.806	0.0294	-0.0294	0.3350
12800	4.107	0.0343	-0.0343	0.3282
25600	4.408	0.0409	-0.0409	0.3192
6400	3.806	0.0400	-0.0400	0.3204
1600	3.204	0.0400	-0.0400	0.3204
400	2.602	0.0421	-0.0421	0.3175
100	2.000	0.0437	-0.0437	0.3153

% Saturation	95.6
Sp. Gr. (g/cc)	2.780
Init. Ht. Solids (cm)	1.847
Init. Ht. Voids (cm)	0.693
Init. Void Ratio	0.3754

Data entry by: NAA Date: 6-12-95
Data checked by: a) Date: 8-12-95
FileName:SAC0713

ADVANCED TERRA TESTING, INC.

TIME READING DATA

G2-131
27.5-29.5'

1600 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.2427	0.0000
0.1	0.32	0.2419	-0.0008
0.3	0.50	0.2417	-0.0010
0.5	0.71	0.2416	-0.0011
1.0	1.00	0.2415	-0.0012
2.0	1.41	0.2414	-0.0013
4.0	2.00	0.2413	-0.0014
9.0	3.00	0.2412	-0.0015
16.0	4.00	0.2412	-0.0015
30.0	5.48	0.2410	-0.0017
60.0	7.75	0.2408	-0.0019
120.0	10.95	0.2405	-0.0022
240.0	15.49	0.2398	-0.0029
480.0	21.91	0.2389	-0.0038

3200 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.2340	0.0000
0.1	0.32	0.2334	-0.0006
0.3	0.50	0.2333	-0.0007
0.5	0.71	0.2332	-0.0008
1.0	1.00	0.2332	-0.0008
2.0	1.41	0.2331	-0.0009
4.0	2.00	0.2330	-0.0010
9.0	3.00	0.2329	-0.0011
16.0	4.00	0.2329	-0.0011
30.0	5.48	0.2328	-0.0012
60.0	7.75	0.2326	-0.0014
120.0	10.95	0.2323	-0.0017
240.0	15.49	0.2318	-0.0022
480.0	21.91	0.2308	-0.0032

6400 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.2285	0.0000
0.1	0.32	0.2275	-0.0010
0.3	0.50	0.2274	-0.0011
0.5	0.71	0.2273	-0.0012
1.0	1.00	0.2272	-0.0013
2.0	1.41	0.2271	-0.0014
4.0	2.00	0.2270	-0.0015
9.0	3.00	0.2269	-0.0016
16.0	4.00	0.2268	-0.0017
30.0	5.48	0.2266	-0.0019
60.0	7.75	0.2264	-0.0021
120.0	10.95	0.2259	-0.0026
240.0	15.49	0.2252	-0.0033
480.0	21.91	0.2241	-0.0044

12800 psf Load

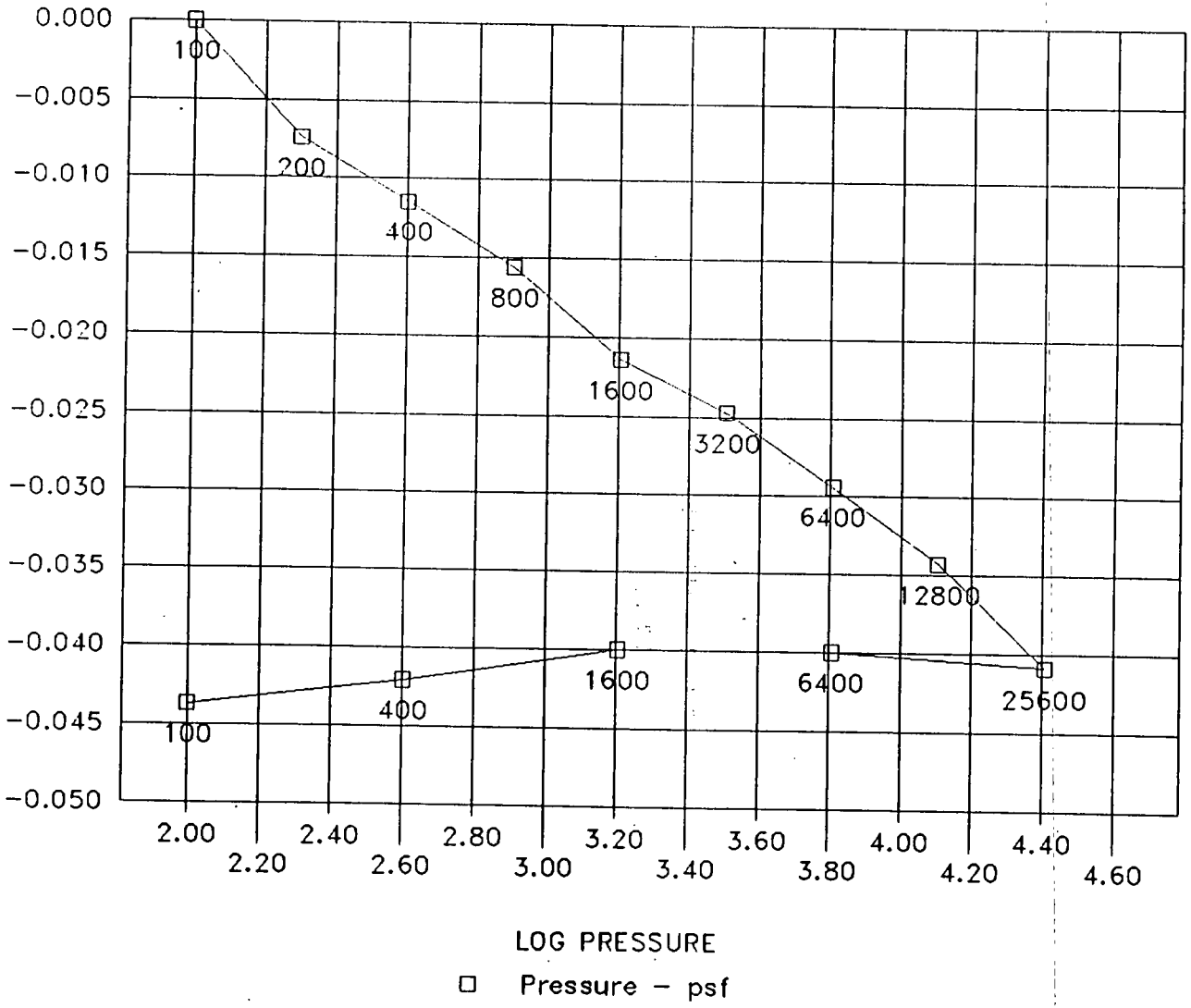
Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.2219	0.0000
0.1	0.32	0.2205	-0.0014
0.3	0.50	0.2203	-0.0016
0.5	0.71	0.2202	-0.0017
1.0	1.00	0.2199	-0.0020
2.0	1.41	0.2198	-0.0021
4.0	2.00	0.2198	-0.0021
9.0	3.00	0.2196	-0.0023
16.0	4.00	0.2194	-0.0025
30.0	5.48	0.2192	-0.0027
60.0	7.75	0.2189	-0.0030
120.0	10.95	0.2185	-0.0034
240.0	15.49	0.2178	-0.0041
480.0	21.91	0.2167	-0.0052

Data entry by: NAA Date: 6-12-95
Data checked by: DSL Date: 6-12-95
FileName:SAC0713

ADVANCED TERRA TESTING, INC.

CONSOLIDATION TEST DATA

G2-131,404713,27.5-29.5'



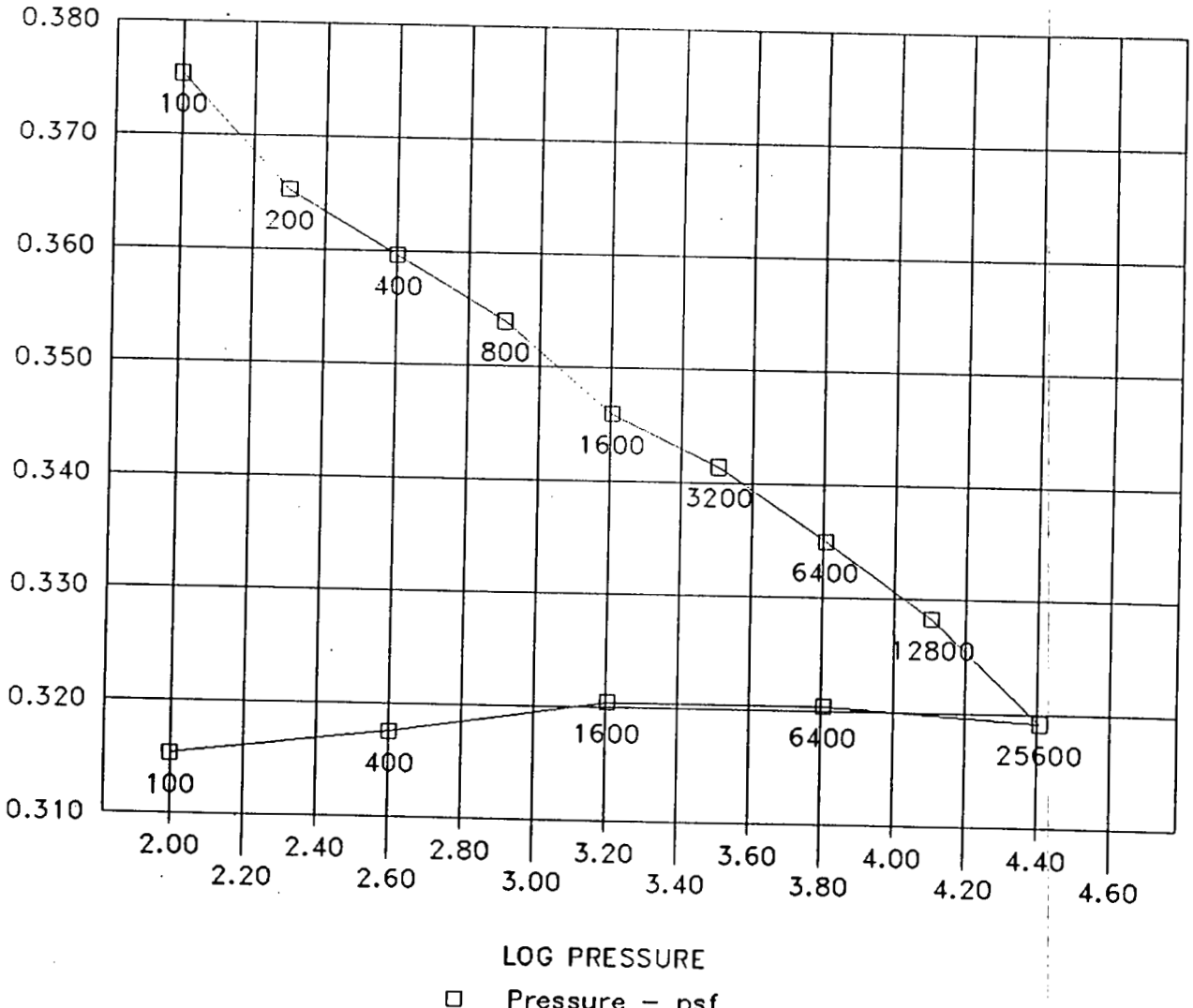
605

000671

474

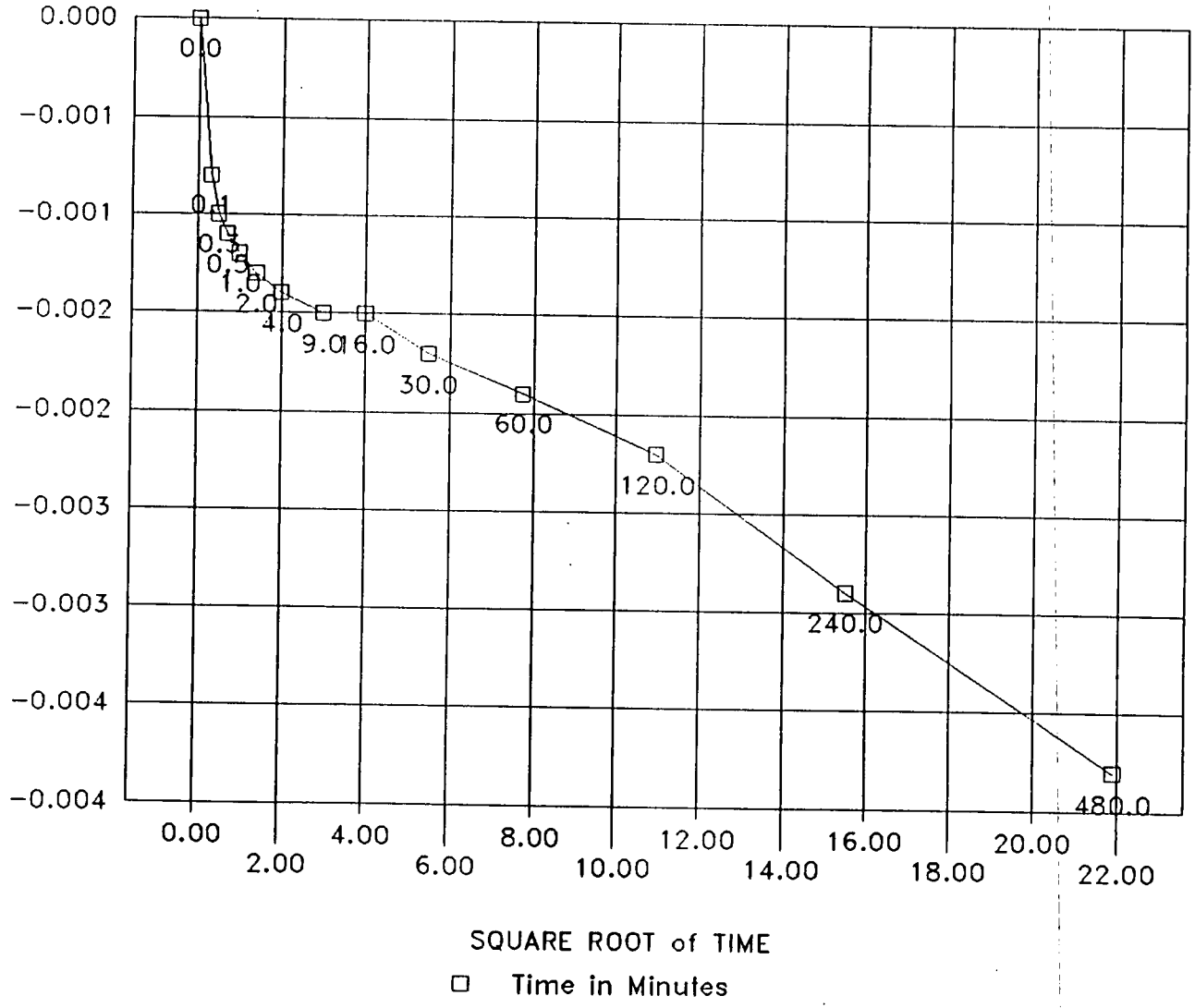
CONSOLIDATION TEST DATA

G2-131,404713,27.5-29.5'



TIME READING DATA

G2-131,404713,27.5-29.5',1600 psf Load



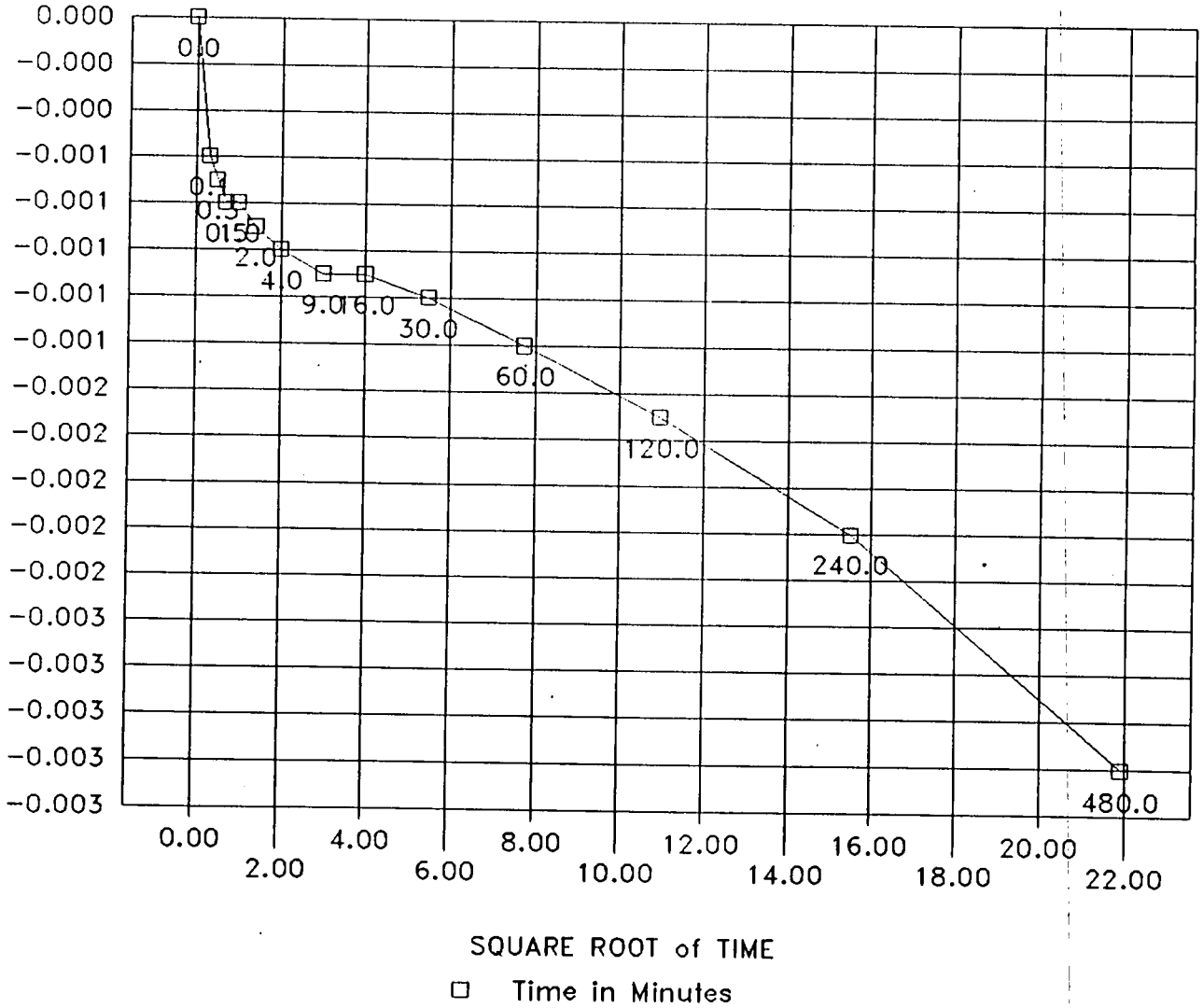
607

000673

474

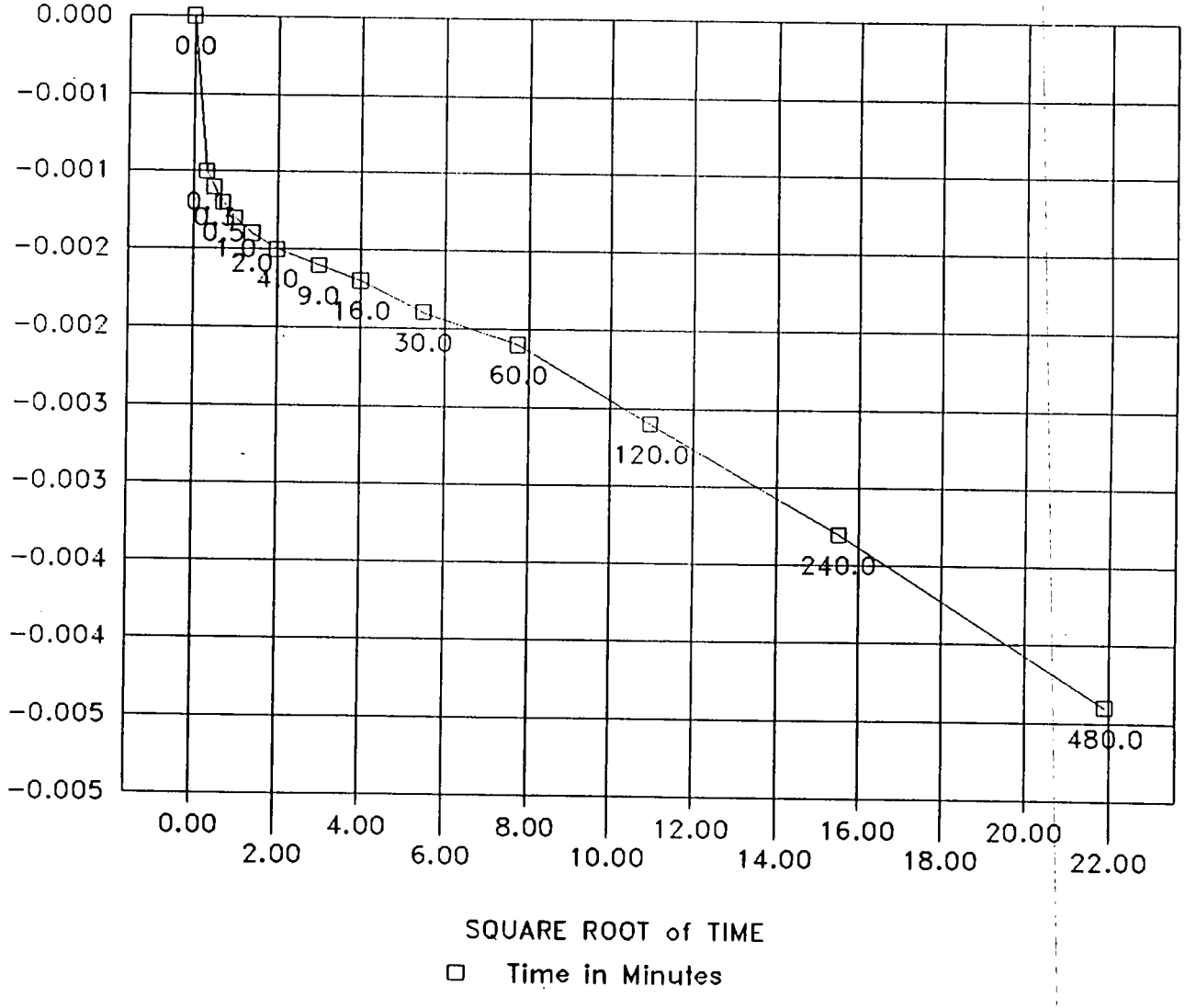
TIME READING DATA

G2-131,404713,27.5-29.5',3200 psf Load



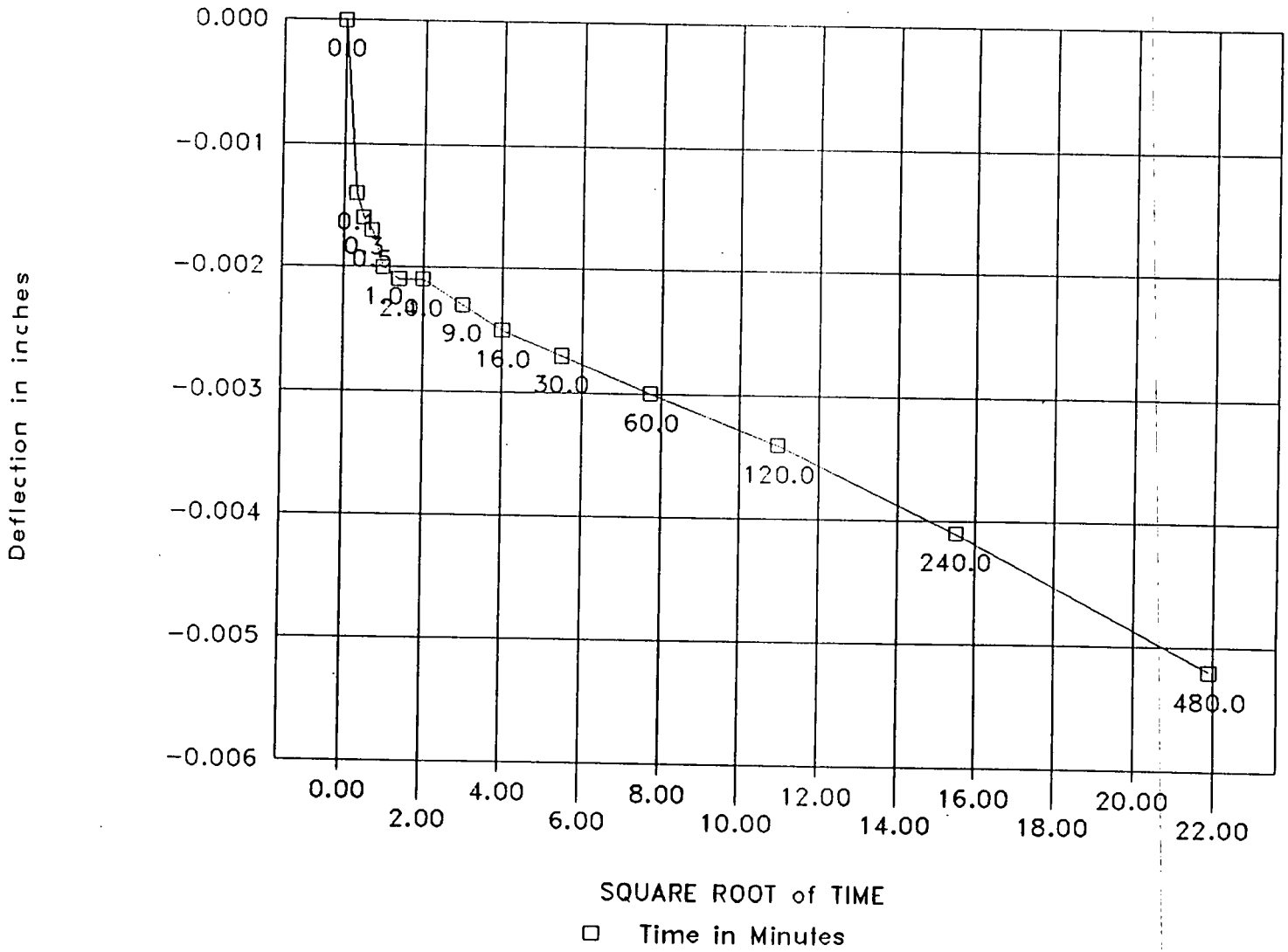
TIME READING DATA

G2-131,404713,27.5-29.5',6400 psf Load



TIME READING DATA

G2-131,404713,27.5-29.5',12800 psf Load



610

000576

474

CONSOLIDATION TEST DATA SHEET

SACØ713 SACC713 SACE713 PO 140
SACC713 2
SACE713 3
4

474
PAGE 1 OF 2

JOB SAIC / PARSONS — JOB NO. 2059-13 A
DATE SAMPLED 4-13-95 MG — BORING NO. GR-131
TEST STARTED 6-1-95 BY DSR — TEST FINISHED 6-9-95 BY WEB — DEPTH 27.5-29.5'
SOIL TYPE — SAMPLE # 404713
CONSOLIDOMETER NO. ATT-2 — INITIAL SAMPLE HEIGHT H_0 = 1.00" D_0 = 2.4110"

MOISTURE & DENSITY DATA	BEFORE TEST	AFTER TEST
WT. OF RING(S)+ SOIL	217.22	211.02
WT. OF RING(S) ONLY	46.61	
WT. OF SOIL (NET)		
WET DENSITY IN LBS/CU. FT.*		
WT. OF WET SOIL + DISH NO. 72Z		
INT. OF DRY SOIL + DISH		
WT. OF LOST MOISTURE		
WT. OF DISH ONLY	3.85	
WT. OF DRY SOIL		
MOISTURE AS % OF DRY WT.		
DRY DENSITY IN LBS/CU. FT.		

TEST INSTRUCTIONS

LOAD CYCLE 100 200 400 800 1600 TR 3200 TR 6400 TR 12800 TR 25600

REBOUND x 2

SPECIAL INSTRUCTION AND NOTES

Dry Wt Soil Pan & Ring = 201.56

Natural Moisture !! Cow

SpGr = 2.78

DATE	TIME	E-LAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOL-IDATION
6-1-95	1453	0	100	.2641		
	1504			.2635		.0000
			200			
	1505	1		.2629		
	1506	2		.2629		
	1607			.2614		
	1715			.2606		
6-2-95	810			.2554		
	0928			.2551	.0084	.0074
			400	~~.2540~~ WB		
	0930	1		.2540		
	0931	2		.2540		
	1112			.2506		
	1224			.2503		
	1435			.2496		
WB	1539			.2493	.0142	.0115
			800			
	1540	1		.2485		
	1541	2		.2484		
	1646			.2476 WB		
6-3-95				.2427	.0208	.0156
			1600			
		.1		.2419		
		.25		.2417		
		.5		.2416		
	1133	1		.2415		
	1134	2		.2414		
	1136	4		.2413		
	1141	9		.2412		
	1148	16		.2412		

DATE	TIME	E-LAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOL-IDATION
6-3-95	1202	30	1600	.2410		
	1232	60		.2408		
	1332	120		.2405		
	1532	240		.2398		
	1932	480		.2389		
6-4-95	0859			.2363		
6-5-95	0834			.2340	.0295	.0214
			3200			
		.1		.2334		
		.25		.2333		
		.5		.2332		
	0835	1		.2332		
	0836	2		.2331		
	0838	4		.2330		
	0843	9		.2329		
	0850	16		.2329		
	0904	30		.2328		
	0934	60		.2326		
	1034	120		.2323		
	1234	240		.2318		
	1634	480		.2308		
6-6-95	0829			.2285	.0350	.0247
			6400			
		.1		.2275		
		.25		.2274		
		.5		.2273		
	0830	1		.2272		
	0831	2		2271		
	0833	4		.2270		
	0838	9		.2269		

611 CONTINUED ON REVERSE SIDE

ADVANCED TERRA TESTING

CONSOLIDATION TEST DATA SHEET (CONTINUED)

DATE	TIME	E-LAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOL-IDATION
6-6-95	0845	16	6400 cont	.2268		
	0859	30		.2266		
	0929	60		.2264		
	1029	120		.2259		
	1229	240		.2252		
	1629	480		.2241		
6-7-95	811			.2219	.0416	.0294
		.1	12800	.2205		
		.25		.2203		
		.5		.2202		
	812	1		.2199		
	813	2		.2198		
	815	4		.2198		
	820	9		.2196		
	827	16		.2194		
	841	30		.2192		
	911	60		.2189		
	1011	120		.2185		
	1211	240		.2178		
	1611	480		.2167		
6-8-95	0832			.2150	.0485	.0343
			2560			
	0833	1		.2105		
	0834	2		.2101		
	1018			.2078		
	1125			.2073		
	1238			.2069		
	1403			.2065		
	1518			.2061		
	1630			.2059	.0576	.0409
			6400			
	1631			.2082		
	1632			.2083		
6-9-95	0833			.2085	.0550	.0400
			1600			
	0835	1		.2094		
	0836	2		.2100		
	1003			.2104	.0531	.0400
			400			
	1004	1		.2114		
	1005	2		.2114		
	1143			.2119		
	1342			.2120	.0515	.0421
			100			
	1343	1		.2126		
	1344	2		.2127		
	1514			.2130		
	1334			.2130	.0505	.0437

DATE	TIME	E-LAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOL-IDATION

612 ATT-2

CONSOLIDATION TEST
ASTM D-2435

CLIENT SAIC/Parsons PO 140 JOB NO. 2059-13A

BORING NO.	G2-131	SAMPLED	4-13-95 MG
DEPTH	45.0-47.0'	TEST STARTED	6-9-95 WEB
SAMPLE NO.	404719	TEST FINISHED	6-19-95 DPM
SOIL DESCR.	Fernald	CELL NUMBER	ATT-5
Note: Natural Moisture			
SAMPLE DIA.(in)	2.410	INITIAL HT.(in)	1.000

MOISTURE/DENSITY DATA	BEFORE TEST	AFTER TEST
Wt. Soil & Ring(s) (g)	206.0	200.8
Wt. Ring(s) (g)	46.2	46.2
Wt. Soil (g)	159.8	154.6
Wet Density PCF	133.4	139.1
Wt. Wet Soil & Pan (g)	168.1	163.0
Wt. Dry Soil & Pan (g)	144.2	144.2
Wt. Lost Moisture (g)	23.8	18.7
Wt. of Pan Only (g)	8.3	8.3
Wt. of Dry Soil (g)	135.9	135.9
Moisture Content %	17.5	13.8
Dry Density PCF	113.5	122.3

LOAD (PSF)	CONSOL. (IN.)
100	0.0000
200	0.0020
400	0.0076
800	0.0202
1600	0.0336
3200	0.0440
6400	0.0538
12800	0.0674
25600	0.0777
6400	0.0773
1600	0.0757
400	0.0745
100	0.0718

LOAD (PSF)	LOG p	CONSOL. (IN.)	DEFL. (IN.)	VOID RATIO e
100	2.000	0.0000	0.0000	0.4960
200	2.301	0.0020	-0.0020	0.4930
400	2.602	0.0076	-0.0076	0.4847
800	2.903	0.0202	-0.0202	0.4658
1600	3.204	0.0336	-0.0336	0.4458
3200	3.505	0.0440	-0.0440	0.4302
6400	3.806	0.0538	-0.0538	0.4155
12800	4.107	0.0674	-0.0674	0.3952
25600	4.408	0.0777	-0.0777	0.3798
6400	3.806	0.0773	-0.0773	0.3804
1600	3.204	0.0757	-0.0757	0.3828
400	2.602	0.0745	-0.0745	0.3846
100	2.000	0.0718	-0.0718	0.3886

% Saturation	96.2
Sp. Gr. (g/cc)	2.720
Init. Ht. Solids (cm)	1.698
Init. Ht. Voids (cm)	0.842
Init. Void Ratio	0.4960

Data entry by: NAA Date: 6-28-95
Data checked by: CJ Date: 8-12-95
FileName:SAC04719

ADVANCED TERRA TESTING, INC.

TIME READING DATA

G2-131
45.0-47.0'

1600 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.0226	0.0000
0.1	0.32	0.0268	-0.0042
0.3	0.50	0.0272	-0.0046
0.5	0.71	0.0276	-0.0050
1.0	1.00	0.0279	-0.0053
2.0	1.41	0.0283	-0.0057
4.0	2.00	0.0286	-0.0060
9.0	3.00	0.0289	-0.0063
16.0	4.00	0.0292	-0.0066
30.0	5.48	0.0295	-0.0069
60.0	7.75	0.0299	-0.0073
120.0	10.95	0.0304	-0.0078
240.0	15.49	0.0311	-0.0085
480.0	21.91	0.0324	-0.0098

3200 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.0370	0.0000
0.1	0.32	0.0395	-0.0025
0.3	0.50	0.0396	-0.0026
0.5	0.71	0.0397	-0.0027
1.0	1.00	0.0399	-0.0029
2.0	1.41	0.0401	-0.0031
4.0	2.00	0.0405	-0.0035
9.0	3.00	0.0407	-0.0037
16.0	4.00	0.0409	-0.0039
30.0	5.48	0.0414	-0.0044
60.0	7.75	0.0416	-0.0046
120.0	10.95	0.0421	-0.0051
240.0	15.49	0.0428	-0.0058
480.0	21.91	0.0443	-0.0073

6400 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.0486	0.0000
0.1	0.32	0.0511	-0.0025
0.3	0.50	0.0512	-0.0026
0.5	0.71	0.0514	-0.0028
1.0	1.00	0.0517	-0.0031
2.0	1.41	0.0522	-0.0036
4.0	2.00	0.0524	-0.0038
9.0	3.00	0.0528	-0.0042
16.0	4.00	0.0531	-0.0045
30.0	5.48	0.0533	-0.0047
60.0	7.75	0.0536	-0.0050
120.0	10.95	0.0540	-0.0054
240.0	15.49	0.0547	-0.0061
480.0	21.91	0.0561	-0.0075

12800 psf Load

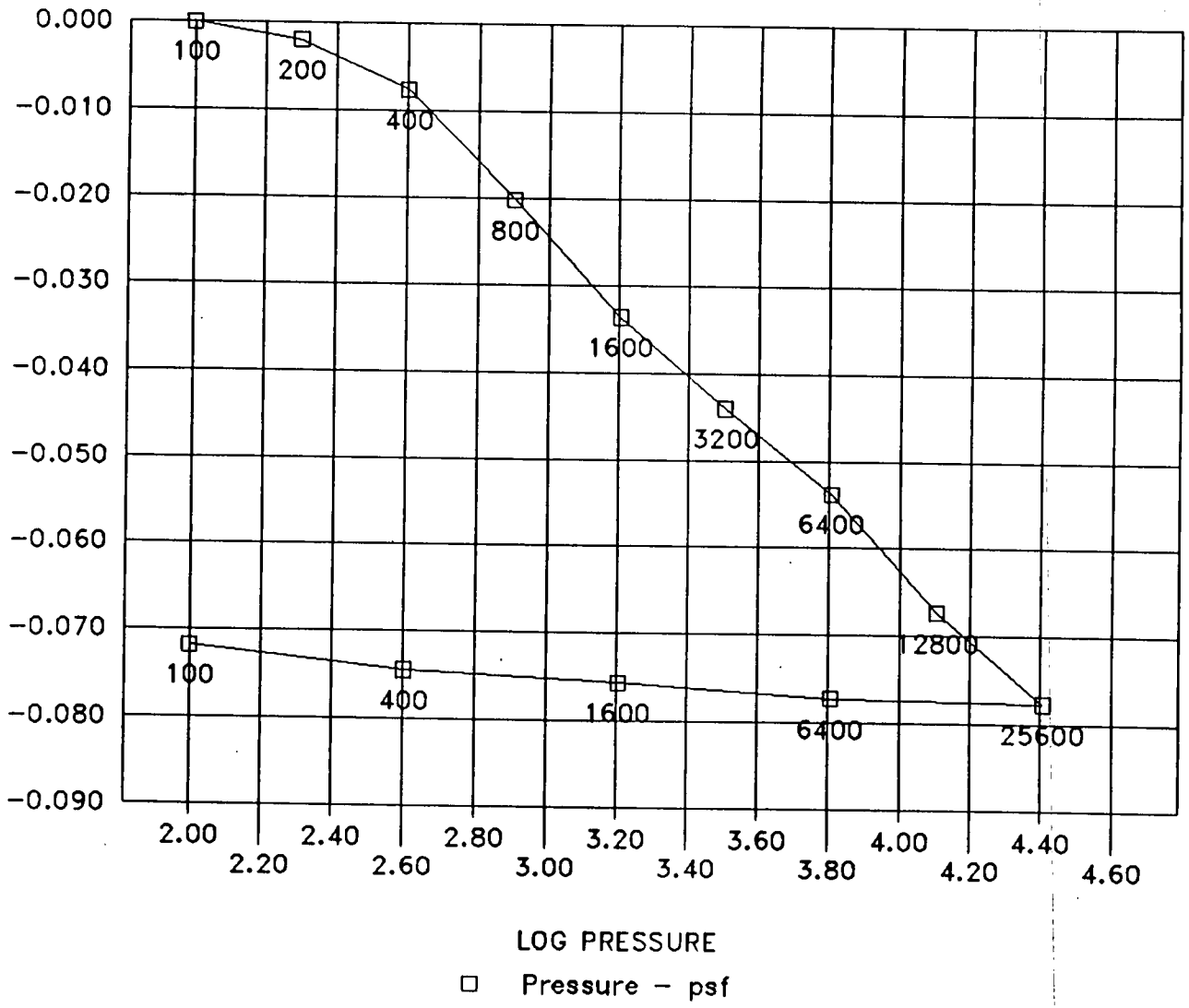
Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.0599	0.0000
0.1	0.32	0.0670	-0.0071
0.3	0.50	0.0671	-0.0072
0.5	0.71	0.0673	-0.0074
1.0	1.00	0.0674	-0.0075
2.0	1.41	0.0676	-0.0077
4.0	2.00	0.0679	-0.0080
9.0	3.00	0.0682	-0.0083
16.0	4.00	0.0684	-0.0085
30.0	5.48	0.0687	-0.0088
60.0	7.75	0.0691	-0.0092
120.0	10.95	0.0695	-0.0096
240.0	15.49	0.0701	-0.0102
480.0	21.91	0.0713	-0.0114

Data entry by: NAA Date: 6-28-95
Data checked by: CJ Date: 8-12-95
FileName:SAC04719

ADVANCED TERRA TESTING, INC.

CONSOLIDATION TEST DATA

G2-131,404719,45.0-47.0'



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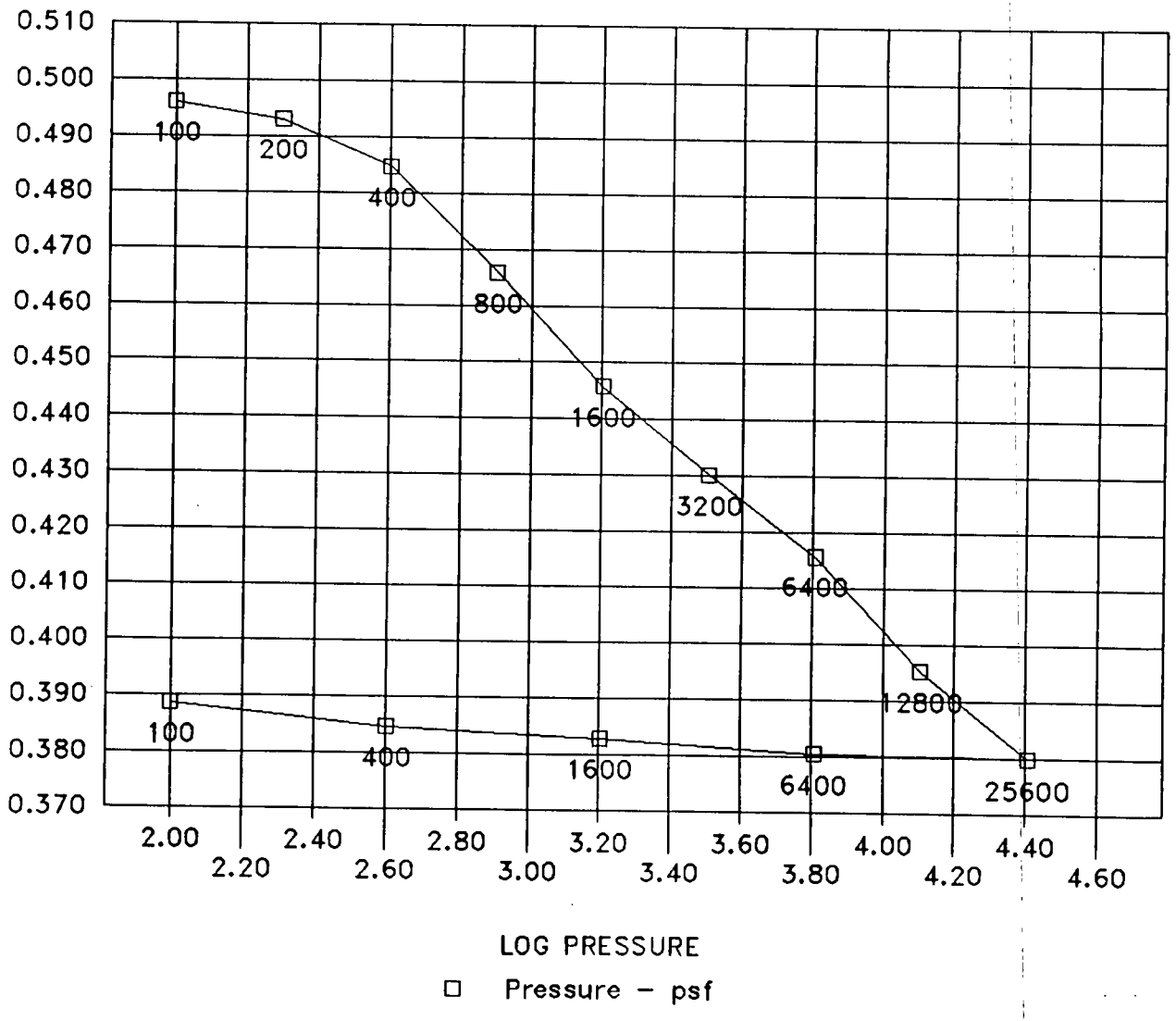
CONSOLIDATION TEST DATA

G2-131,404719,45.0-47.0'



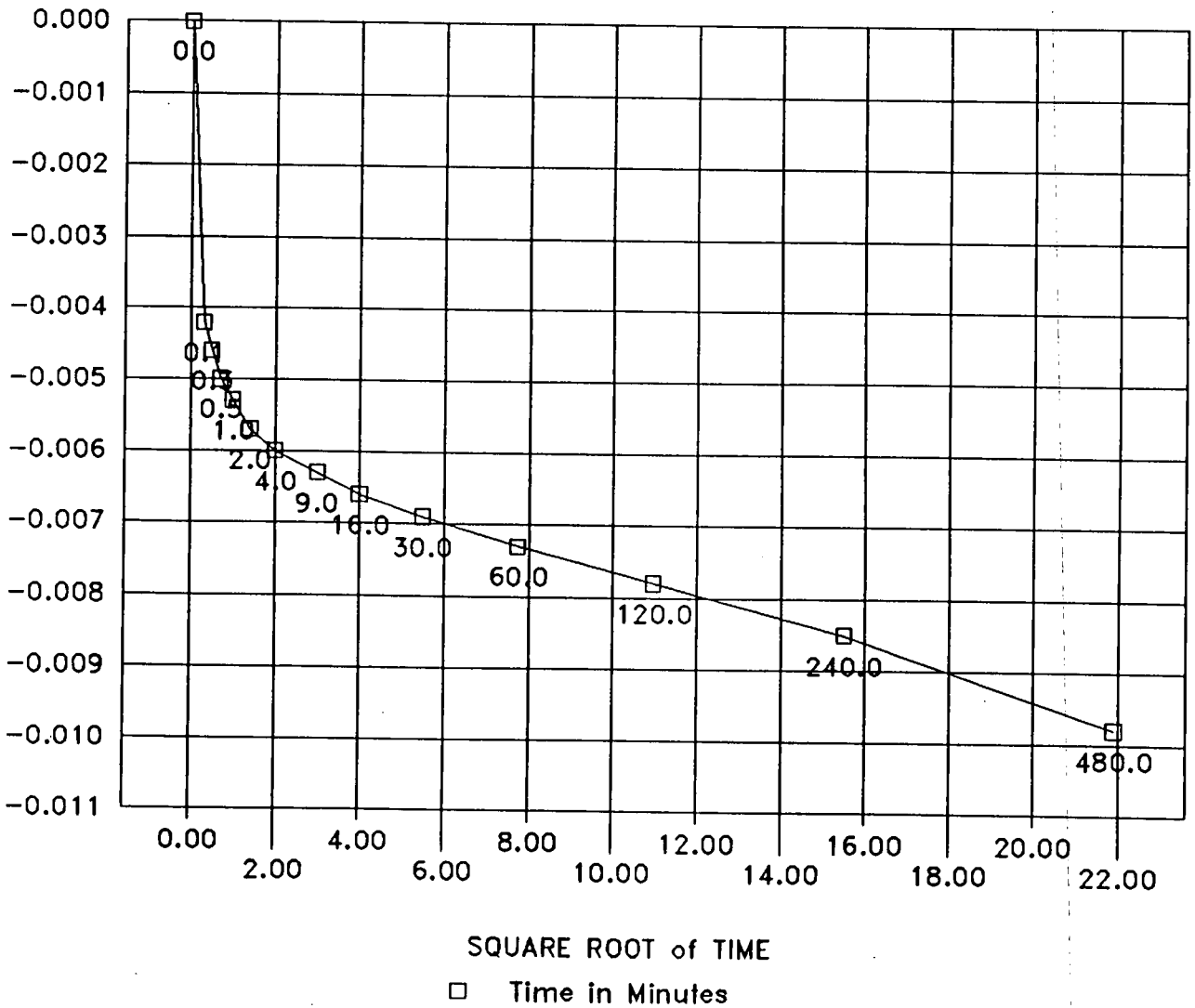
616

000682

474

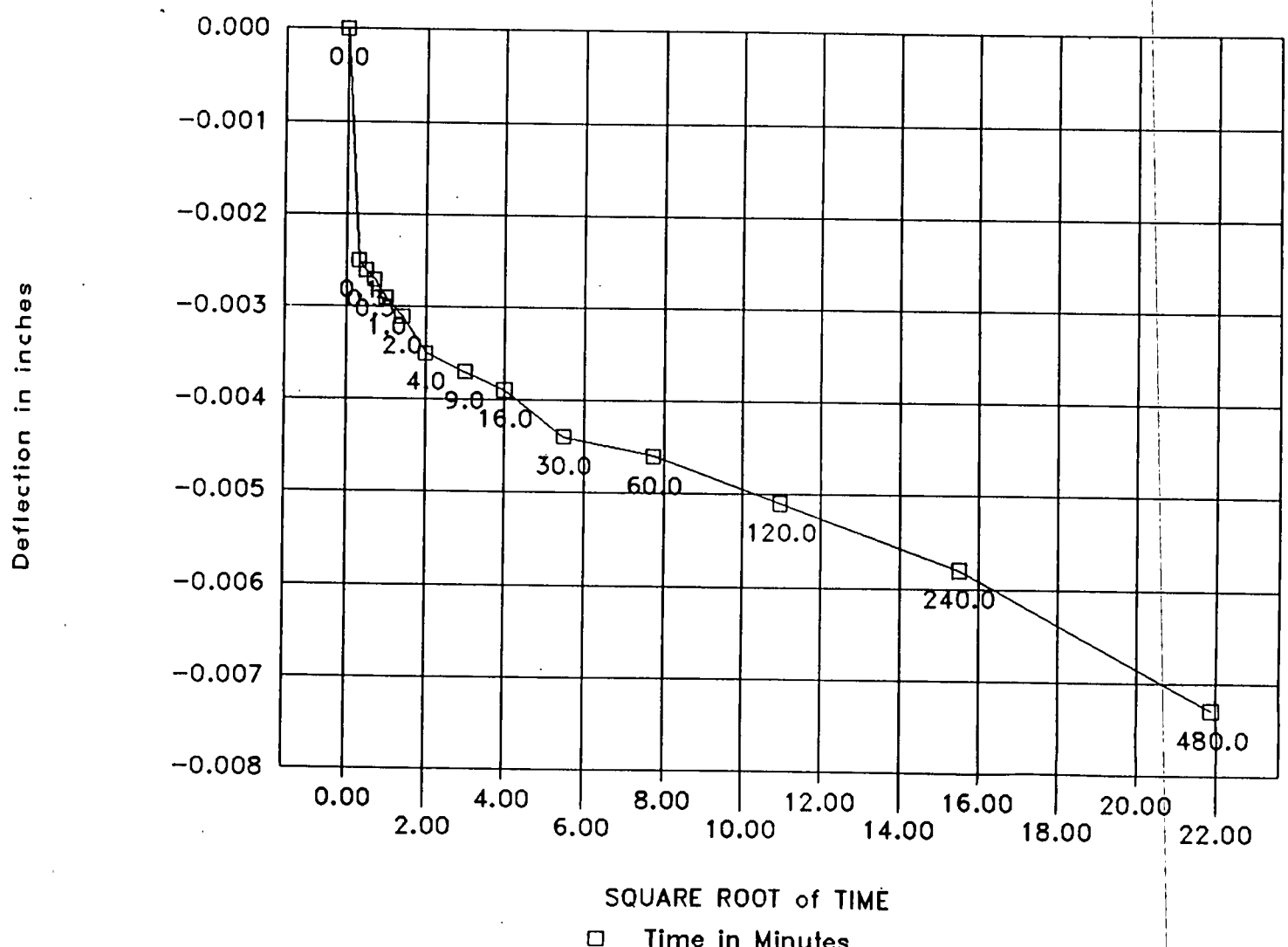
TIME READING DATA

G2-131,404719,45.0-47.0',1600 psf Load



TIME READING DATA

G2-131,404719,45.0-47.0',3200 psf Load



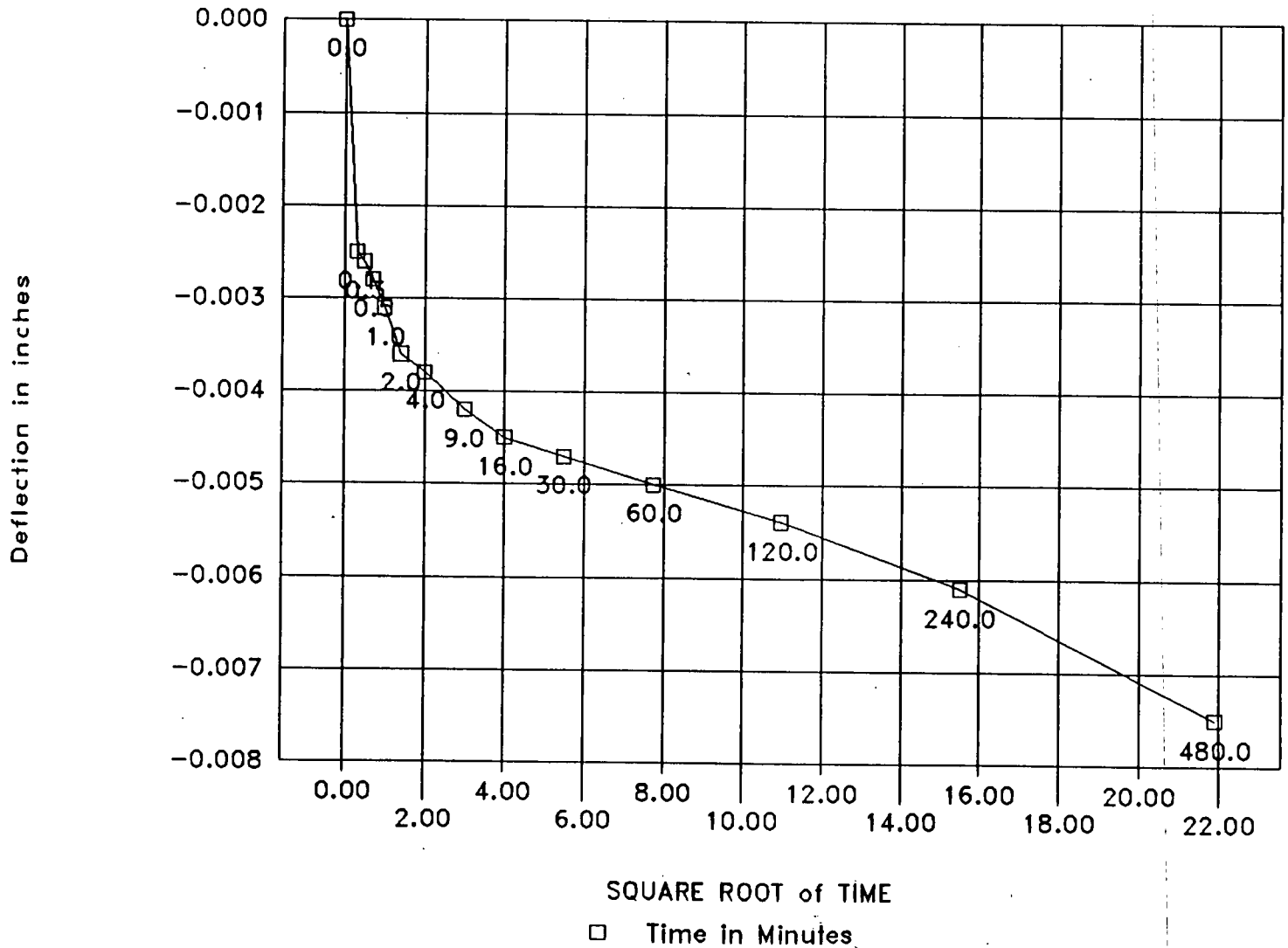
618

000684

474

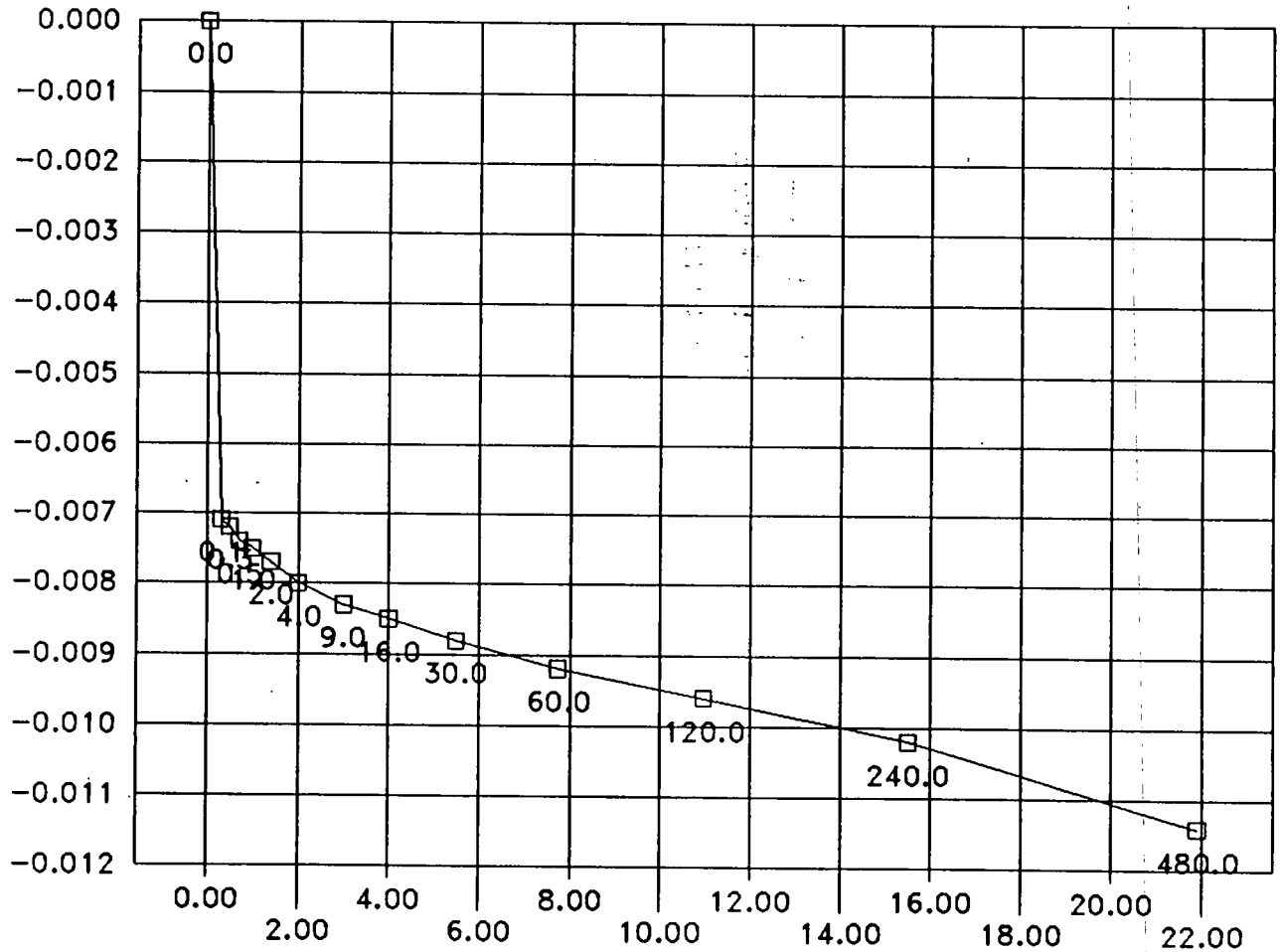
TIME READING DATA

G2-131,404719,45.0-47.0',6400 psf Load



TIME READING DATA

G2-131,404719,45.0-47.0',12800 psf Load



CONSOLIDATION TEST DATA SHEET

SACØ4719 SACC4719 SACE4719 PO140

2 3 4

JOB SAIC / PARSONS JOB NO. 2059-13A

DATE SAMPLED 4-13-95 MG BORING NO. G2-131

TEST STARTED 6-9-95 BY WEB TEST FINISHED 6/19/95 BY DPM DEPTH 45.0-47.0'

SOIL TYPE Fernald SAMPLE # 4047A

CONSOLIDOMETER NO. ATT-5 INITIAL SAMPLE HEIGHT 1.00" Do = 2.41"

MOISTURE & DENSITY DATA	BEFORE TEST	AFTER TEST
WT. OF RING(S)+ SOIL	205.96g	200.84
WT. OF RING(S) ONLY	46.20g	
WT. OF SOIL (NET)		
WET DENSITY IN LBS/CU. FT.*		
WT. OF WET SOIL + DISH NO. K1		209.14
INT. OF DRY SOIL + DISH		
WT. OF LOST MOISTURE		
WT. OF DISH ONLY		8.31
WT. OF DRY SOIL		
MOISTURE AS % OF DRY WT.		
DRY DENSITY IN LBS/CU. FT.		

TEST INSTRUCTIONS

LOAD CYCLE 100 200 400 800 1600 TR 3200 TR 6400 12800 TR 25600 Rebound x2

SPECIAL INSTRUCTION AND NOTES

Dry Wt Soil + Ring + Pan = 190.4

Natural Moisture! CON

SpGr = ~~2.69~~ 2.72 CW 8-12-95

FH = .9282

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOLIDATION
6-9-95	1409		100	.0000		
	1419	10		.0000		
			200			
	1421	1		.0005		
	1422	2		.0007		
	1614			.0021		
	1727			.0024		.0020
			400			
	1728	1		.0036		
	1729	2		.0038		
6-10-95	0937			.0083		
	1044			.0087		
	1144			.0088		.0076
			800			
	1145	1		.0102		
	1146	2		.0104		
	1320			.0121		
	1435			.0126		
	1535			.0128		
6-11-95	1120			.0171		
6-12-95	0820			.0226		
	0833			.0226		.0202
			1600			
	0853	.1		.0268		
		.25		.0272		
		.5		.0276		
	0834	1		.0279		
	0835	2		.0283		
	0837	4		.0286		
	0842	9		.0289		

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOLIDATION
6-12-95	0849	16	1600	.0292		
	0903	30		.0295		
	0933	60		.0299		
	1033	120		.0304		
	1233	240		.0311		
	1633	480		.0324		
6-13-95	0823			.0370		.0336
			3200			
		.1		.0395		
		.25		.0396		
		.5		.0397		
	0824	1		.0399		
	0825	2		.0401		
	0827	4		.0405		
	0832	9		.0407		
	0839	16		.0409		
	0853	30		.0414		
	0923	60		.0416		
	1023	120		.0421		
	1223	240		.0428		
	1623	480		.0443		
6-14-95	0830			.0486		.0440
		.1	6400	.0511		
		.25		.0512		
		.5		.0514		
	0831	1		.0517		
	0832	2		.0522		
	0834	4		.0524		
	0839	9		.0528		
	0846	16		.0531		

ADVANCED TERRA TESTING

CONTINUED ON REVERSE SIDE

SHILLPARSON 10/20 2001-15 A 474
62431 45-47'
4047A

CONSOLIDATION TEST DATA SHEET (CONTINUED)

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOLIDATION
6-14-95	0900	30	6400 cont	.0533		
	0930	60		.0536		
	1030	120		.0540		
	1230	240		.0547		
	1630	480		.0561		
6-15-95	0818			.0599		.0538
			12800			
		.1		.0670		
		.15		.0671		
		.5		.0673		
	0819	1		.0674		
	0820	2		.0676		
	0822	4		.0679		
	0827	9		.0682		
	0834	16		.0684		
	0848	30		.0687		
	0918	60		~~.0688~~ .0691		
	1018	120		.0695		
	1218	240		.0701		
	1618	480		.0713		
6-16-95	808			.0756		.0674
	809	1	25600	.0834		
	810	2		.0840		
	907	58		.0862		
	1015			.0864		
	1125			.0873		
	1300			.0877		
	1720			.0882		
	1522			.0886		
	1024			.0888		.0777
	~~10~~					
	1634	1	6400	.0855		
	1635	2		.0854		
6-17-95	0755			.0857		.0773
			1600			
	0829	1		.0832		
	0830	2		.0831		
	0902			.0826		
	1241			.0824		
	1612			.0822		.0757
			400			
	1613	1		.0808		
	1614	2		.0807		
6-18-95	0815			.0791		.0745
			100			
	0940	1		.0766		
	0941	2		.0766		
	1028			.0766		
6-19-95	0955			.0756		
	1211			.0756		.0718

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOLIDATION

CONSOLIDATION TEST
ASTM D-2435

CLIENT SAIC/Parsons PO 140 JOB NO. 2059-13D

BORING NO.	G2-133	SAMPLED	4-21-95 MM
DEPTH	7.5-9.5'	TEST STARTED	6-9-95 WEB
SAMPLE NO.	405055	TEST FINISHED	6-19-95 DPM
SOIL DESCR.	Fernald	CELL NUMBER	ATT-2
Note: Natural Moisture			
SAMPLE DIA.(in)	2.410	INITIAL HT.(in)	1.000

MOISTURE/DENSITY DATA	BEFORE TEST	AFTER TEST
Wt. Soil & Ring(s) (g)	221.1	213.5
Wt. Ring(s) (g)	46.2	46.2
Wt. Soil (g)	174.9	167.3
Wet Density PCF	146.1	145.8
Wt. Wet Soil & Pan (g)	183.2	175.6
Wt. Dry Soil & Pan (g)	163.8	163.8
Wt. Lost Moisture (g)	19.4	11.8
Wt. of Pan Only (g)	8.3	8.3
Wt. of Dry Soil (g)	155.5	155.5
Moisture Content %	12.5	7.6
Dry Density PCF	129.9	135.5

LOAD (PSF)	CONSOL. (IN.)
100	0.0000
200	0.0063
400	0.0071
800	0.0136
1600	0.0184
3200	0.0216
6400	0.0254
12800	0.0307
25600	0.0386
6400	0.0380
1600	0.0375
400	0.0402
100	0.0416

LOAD (PSF)	LOG p	CONSOL. (IN.)	DEFL. (IN.)	VOID RATIO e
100	2.000	0.0000	0.0000	0.3317
200	2.301	0.0063	-0.0063	0.3233
400	2.602	0.0071	-0.0071	0.3222
800	2.903	0.0136	-0.0136	0.3136
1600	3.204	0.0184	-0.0184	0.3072
3200	3.505	0.0216	-0.0216	0.3029
6400	3.806	0.0254	-0.0254	0.2979
12800	4.107	0.0307	-0.0307	0.2908
25600	4.408	0.0386	-0.0386	0.2803
6400	3.806	0.0380	-0.0380	0.2811
1600	3.204	0.0375	-0.0375	0.2817
400	2.602	0.0402	-0.0402	0.2782
100	2.000	0.0416	-0.0416	0.2763

% Saturation	104.1
Sp. Gr. (g/cc)	2.770
Init. Ht. Solids (cm)	1.907
Init. Ht. Voids (cm)	0.633
Init. Void Ratio	0.3317

Data entry by: NAA Date: 6-21-95
Data checked by: [illegible] Date: 8-12-95
FileName:SAC0055N

ADVANCED TERRA TESTING, INC.

TIME READING DATA

G2-133
7.5-9.5'

25600 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.2441	0.0000
0.1	0.32	0.2409	-0.0032
0.3	0.50	0.2406	-0.0035
0.5	0.71	0.2404	-0.0037
1.0	1.00	0.2401	-0.0040
2.0	1.41	0.2398	-0.0043
4.0	2.00	0.2395	-0.0046
9.0	3.00	0.2390	-0.0051
16.0	4.00	0.2386	-0.0055
30.0	5.48	0.2383	-0.0058
60.0	7.75	0.2378	-0.0063
120.0	10.95	0.2373	-0.0068
240.0	15.49	0.2367	-0.0074
480.0	21.91	0.2356	-0.0085

3200 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.2625	0.0000
0.1	0.32	0.2617	-0.0008
0.3	0.50	0.2616	-0.0009
0.5	0.71	0.2616	-0.0009
1.0	1.00	0.2615	-0.0010
2.0	1.41	0.2614	-0.0011
4.0	2.00	0.2613	-0.0012
9.0	3.00	0.2612	-0.0013
16.0	4.00	0.2611	-0.0014
30.0	5.48	0.2609	-0.0016
60.0	7.75	0.2607	-0.0018
120.0	10.95	0.2603	-0.0022
240.0	15.49	0.2598	-0.0027
480.0	21.91	0.2590	-0.0035

6400 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.2571	0.0000
0.1	0.32	0.2558	-0.0013
0.3	0.50	0.2557	-0.0014
0.5	0.71	0.2557	-0.0014
1.0	1.00	0.2556	-0.0015
2.0	1.41	0.2555	-0.0016
4.0	2.00	0.2553	-0.0018
9.0	3.00	0.2552	-0.0019
16.0	4.00	0.2551	-0.0020
30.0	5.48	0.2549	-0.0022
60.0	7.75	0.2544	-0.0027
120.0	10.95	0.2542	-0.0029
240.0	15.49	0.2536	-0.0035
480.0	21.91	0.2529	-0.0042

12800 psf Load

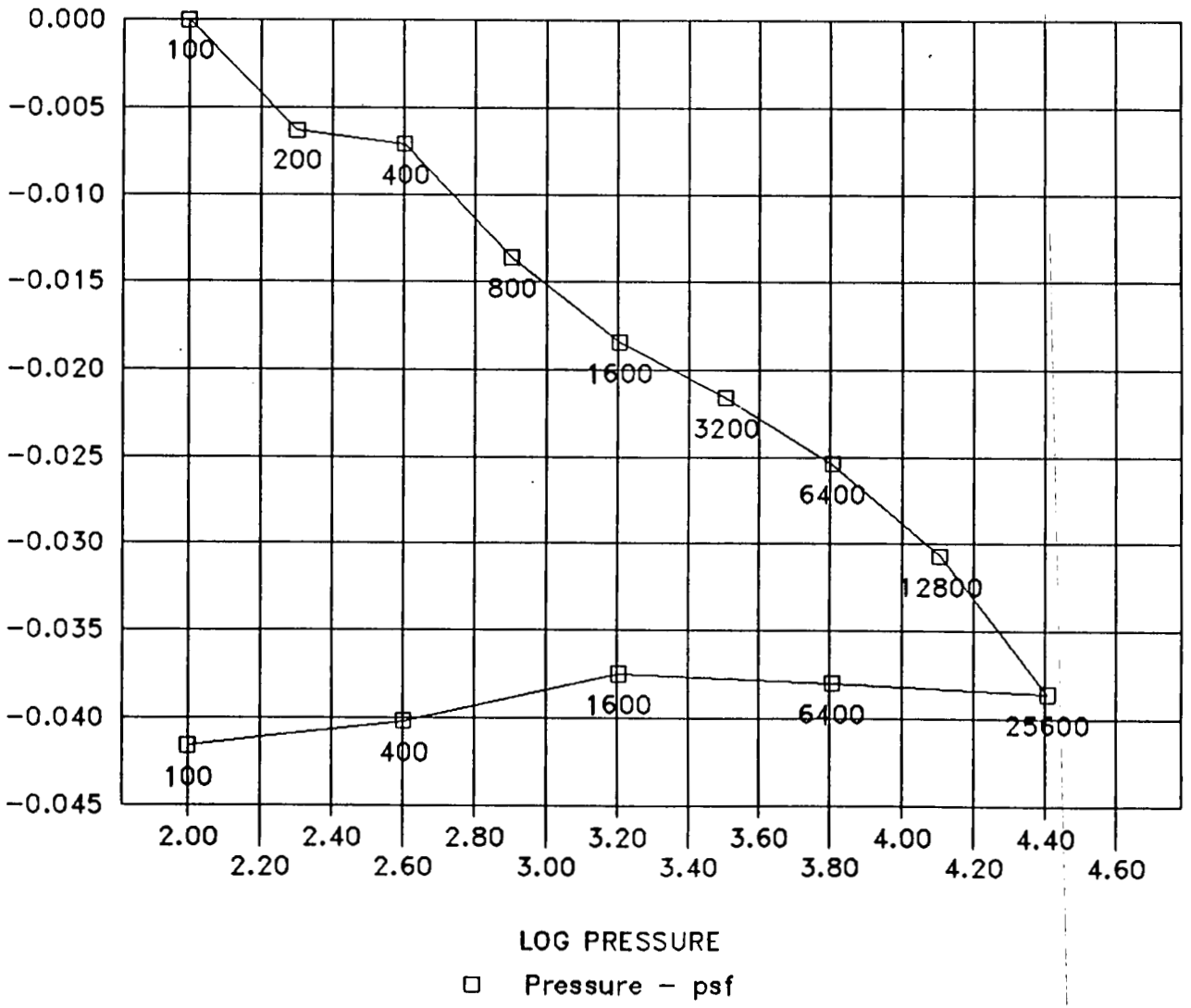
Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.2514	0.0000
0.1	0.32	0.2494	-0.0020
0.3	0.50	0.2493	-0.0021
0.5	0.71	0.2491	-0.0023
1.0	1.00	0.2490	-0.0024
2.0	1.41	0.2488	-0.0026
4.0	2.00	0.2487	-0.0027
9.0	3.00	0.2484	-0.0030
16.0	4.00	0.2482	-0.0032
30.0	5.48	0.2480	-0.0034
60.0	7.75	0.2477	-0.0037
120.0	10.95	0.2472	-0.0042
240.0	15.49	0.2465	-0.0049
480.0	21.91	0.2457	-0.0057

Data entry by: NAA Date: 6-21-95
Data checked by: cal Date: 6-23-95
FileName:SAC0055N

ADVANCED TERRA TESTING, INC.

CONSOLIDATION TEST DATA

G2-133,405055,7.5-9.5'



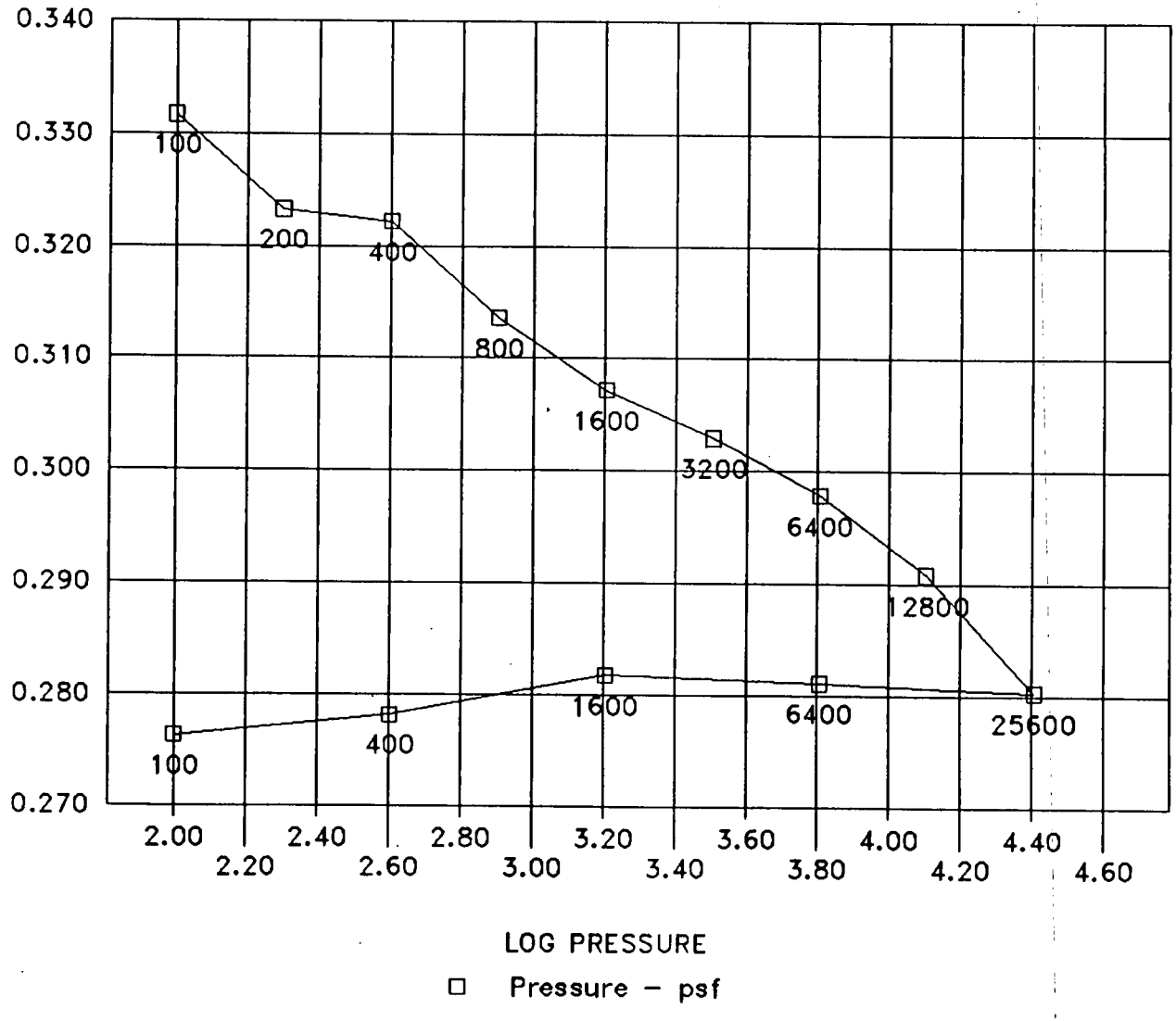
625

000691

4 of 4

CONSOLIDATION TEST DATA

G2-133,405055,7.5-9.5'



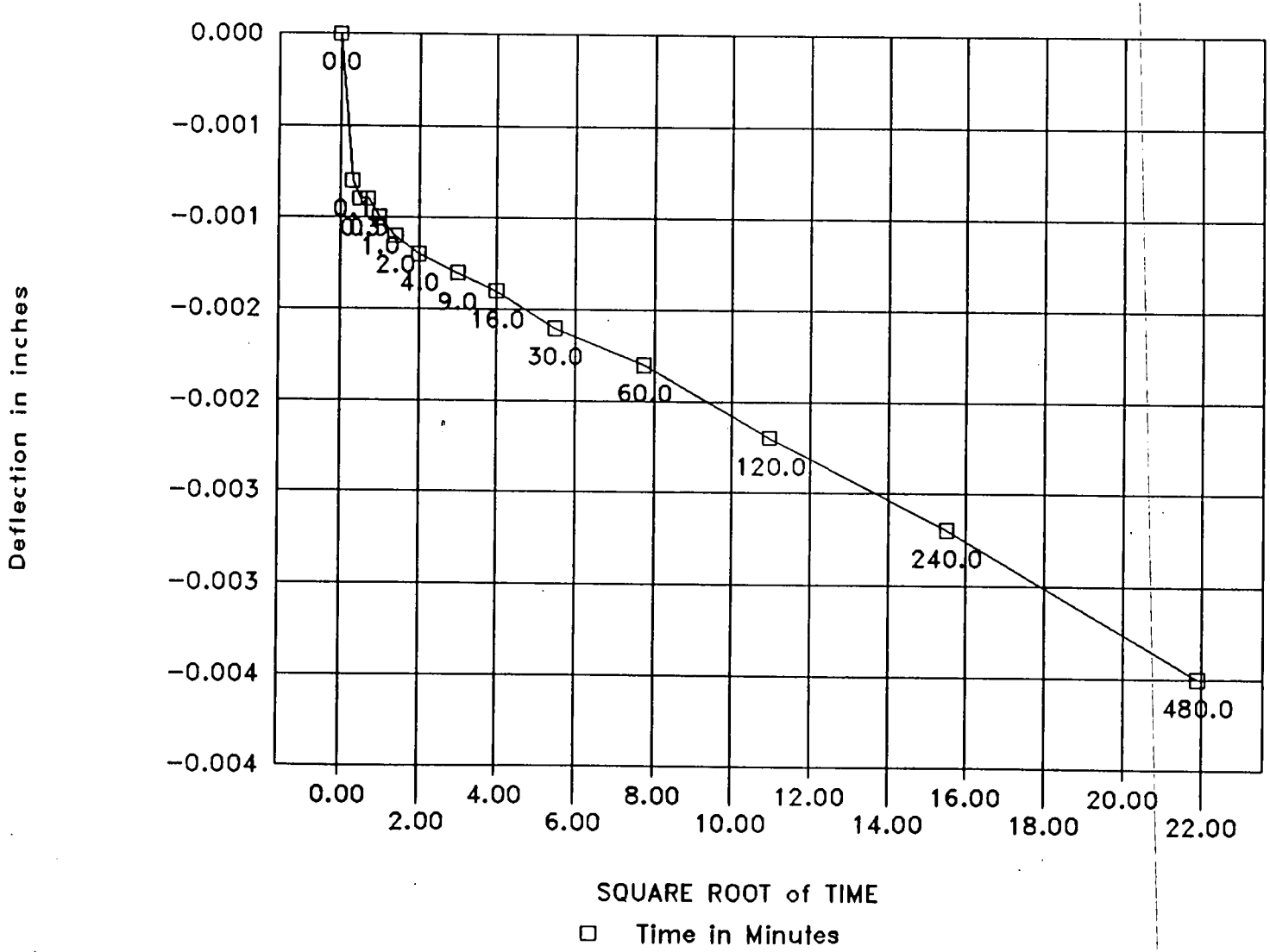
626

000392

474

TIME READING DATA

G2-133,405055,7.5-9.5',3200 psf Load



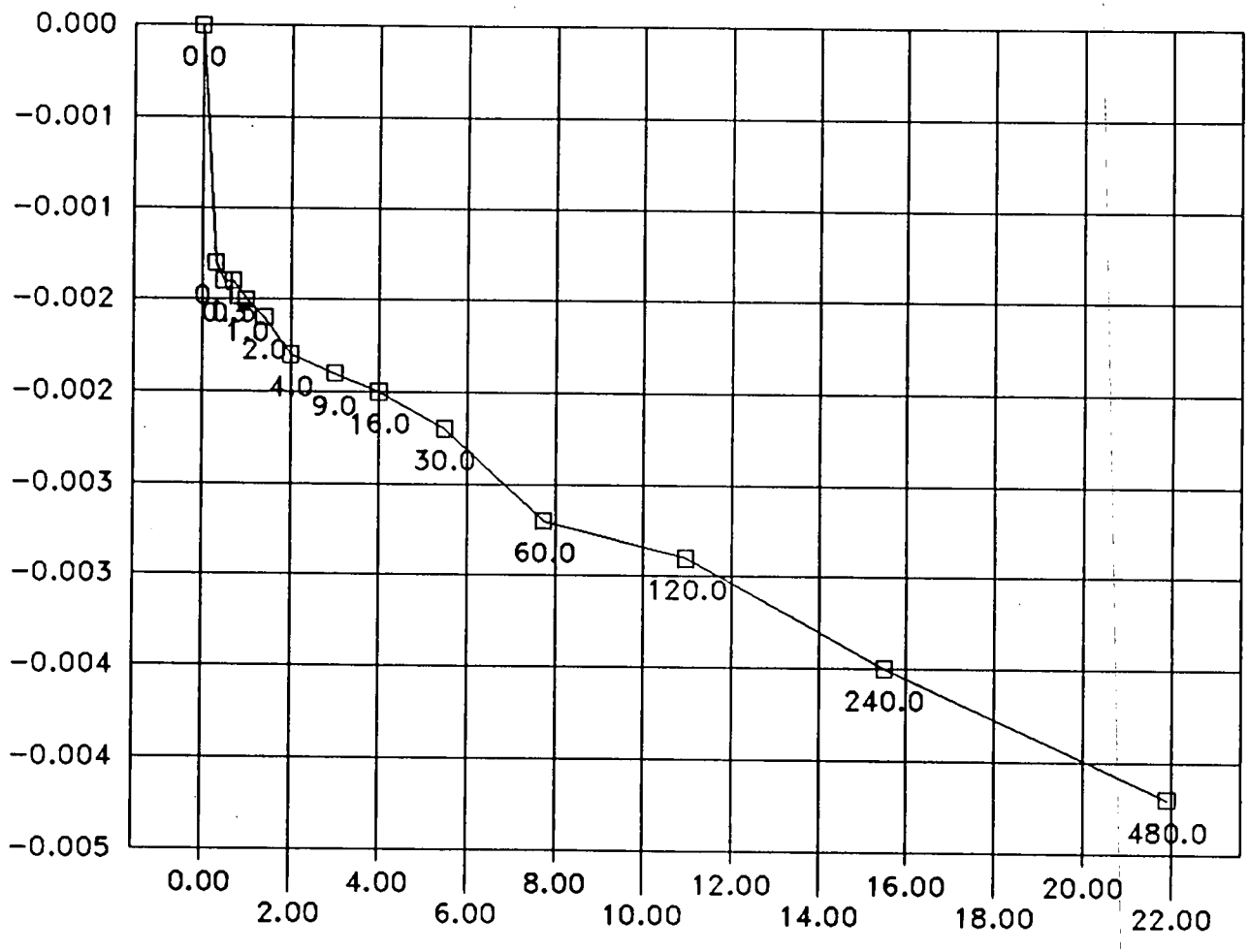
627

000693

424

TIME READING DATA

G2-133,405055,7.5-9.5',6400 psf Load



□ Time in Minutes

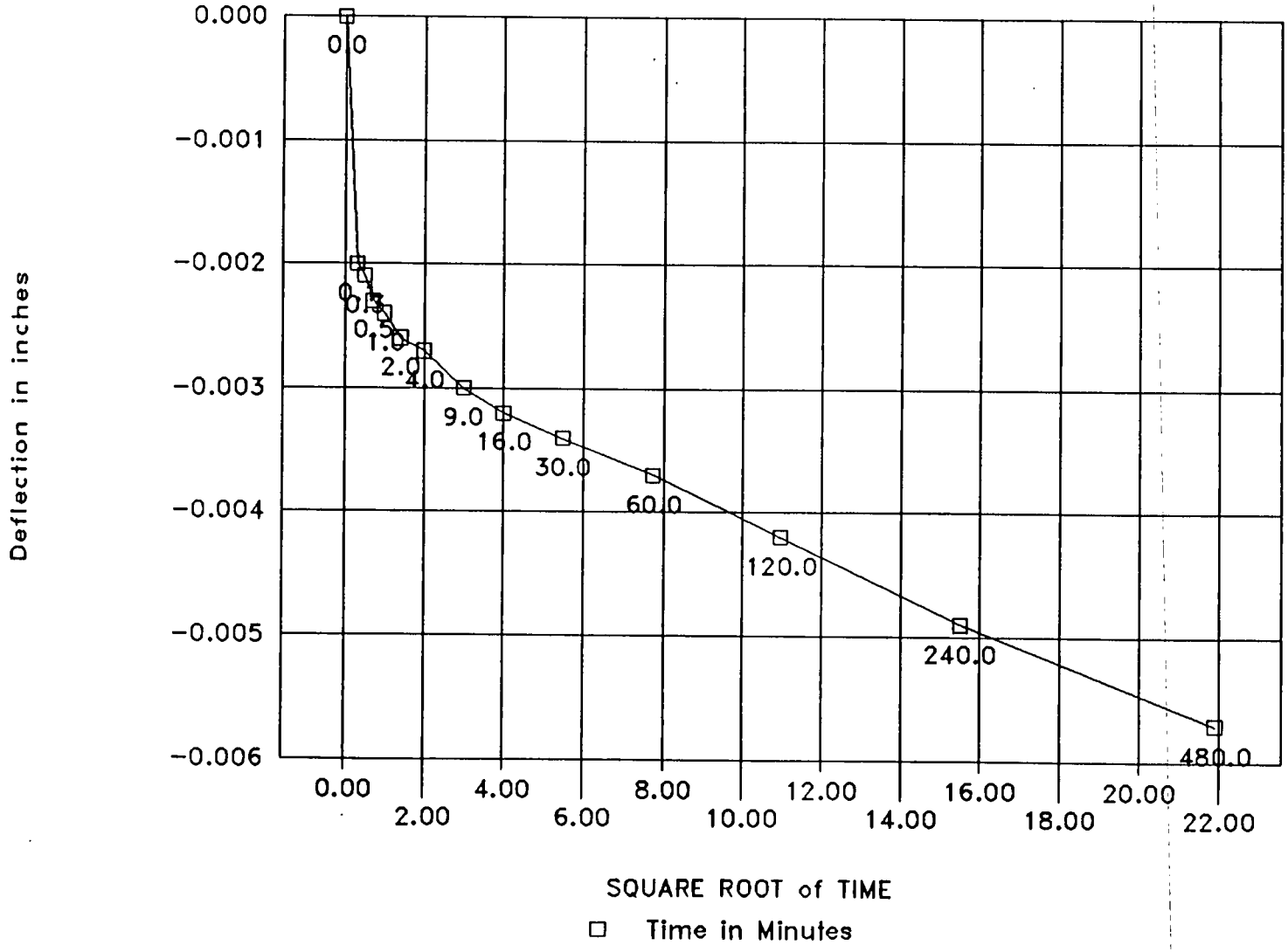
628

000694

474

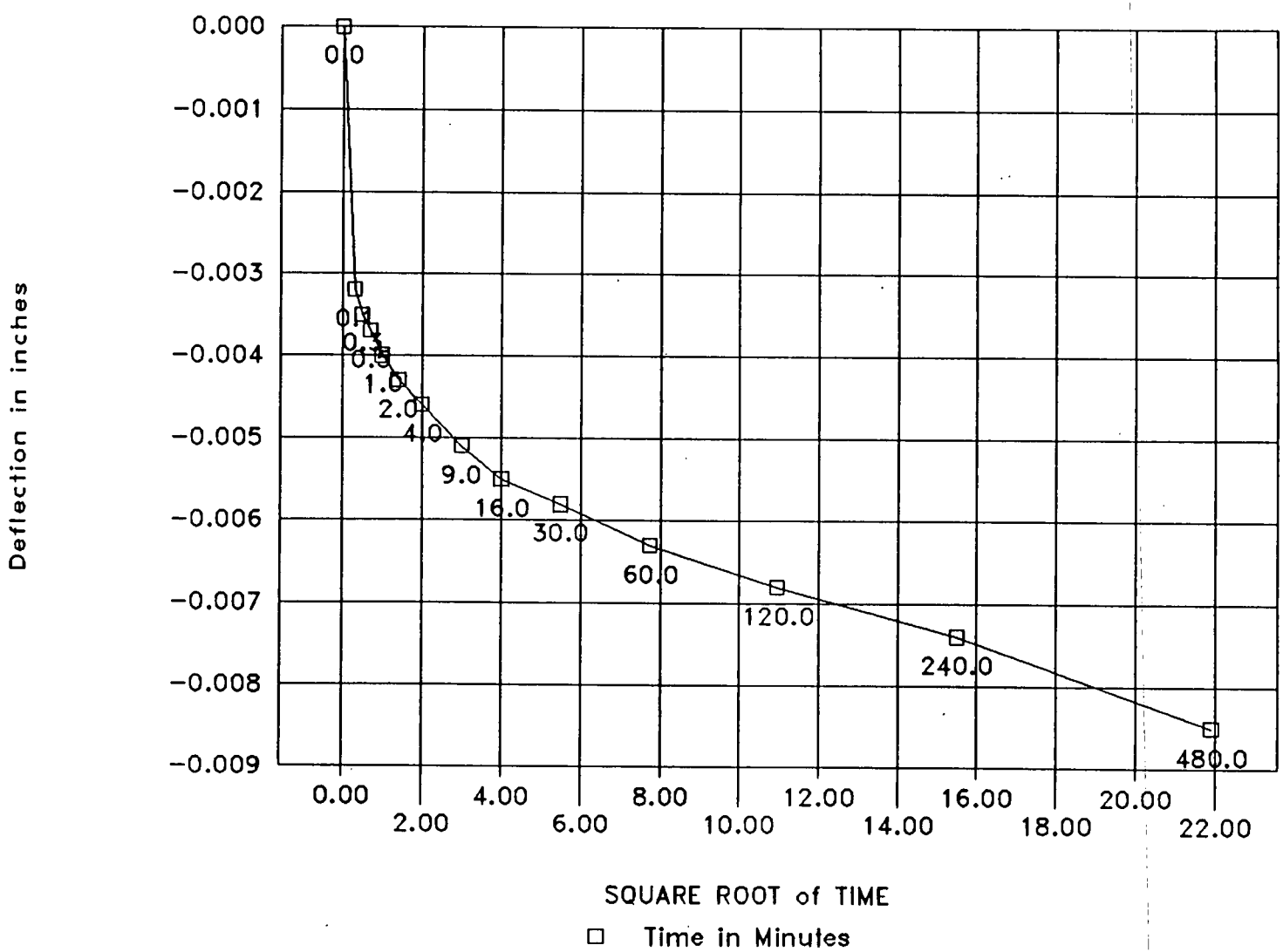
TIME READING DATA

G2-133,405055,7.5-9.5',12800 psf Load



TIME READING DATA

G2-133,405055,7.5-9.5',25600 psf Load



CONSOLIDATION TEST DATA SHEET

SAC0055N SAC1055N 2
SACC055N 3
SACE055N 4

JOB SAIC / PARSONS P0140 JOB NO. 2059-13D

DATE SAMPLED 4-21-95 mm BORING NO. 62-133

TEST STARTED 6-9-95 BY WEB TEST FINISHED _____ BY _____ DEPTH 7.5-9.5'

SOIL TYPE Sample # 405055

CONSOLIDOMETER NO. ATT-2 INITIAL SAMPLE HEIGHT 1.00" Do = 2.41"

MOISTURE & DENSITY DATA	BEFORE TEST	AFTER TEST
WT. OF RING(S)+ SOIL	221.08g	213.48
WT. OF RING(S) ONLY	46.19g	46.19g
WT. OF SOIL (NET)		
WET DENSITY IN LBS/CU. FT.*		
WT. OF WET SOIL + DISH NO. ABS-6		221.82
INT. OF DRY SOIL + DISH		
WT. OF LOST MOISTURE		
WT. OF DISH ONLY		8.24
WT. OF DRY SOIL		
MOISTURE AS % OF DRY WT.		
DRY DENSITY IN LBS/CU. FT.		

TEST INSTRUCTIONS

LOAD CYCLE 100 200 400 800 1600TR 3200TR 6400TR 12800TR 25600TR Rebound x2

SPECIAL INSTRUCTION AND NOTES

Dry Wt Soil + Ring + Pan = 210.0

Natural Moisture!! CON

SpGr = 2.77

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOLIDATION
6-9-95	1549	0	100	.2893		
	1613	~~1024~~		.2890	.0000	.0000
			200			
	1614	1		.2872		
	1615	2		.2871		
	1726			.2859		
6-10-95	0936			.2819		
	1040			.2817	.0073	.0063
			400			
	1041	1		.2805		
	1042	2		.2805		
	1135			.2800		
	1320			~~.28~~.2795		
	1432			.2792	.0098	.0071
			800			
	1433	1		.2783		
	1434	2		.2782		
	1534			.2774		
6-11-95	1120			.2732		
6-12-95	0828			.2702	.0188	.0136
			1600			
	0828	.1		.2696		
		.25		.2695		
		.5		.2694		
	0829	1		.2694		
	0830	2		.2692		
	0832	4		.2692		
	0837	9		.2690		
WB	0842	16		.2689		
	0858	30		.2687		

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOLIDATION
				.2685		
6-12-95	0928	60	1600 cont	~~.2785~~	* Pore Stone was	
	1028	120		.2664	Touching Ring!	
	1228	240		.2658		
	1628	480		.2648		
6-13-95	0810			.2625	.0265	.0184
			3200			
		.1		.2617		
		.25		.2616		
		.5		.2616		
	0811	1		.2615		
	0812	2		.2614		
	0814	4		.2613		
	0819	9		.2612		
	0826	16		.2611		
	0840	30		.2609		
	0910	60		.2607		
	1010	120		.2603		
	1210	240		.2598		
	1610	480		.2590		
6-14-95	0820			.2571	.0319	.0216
			6400			
		.1		.2558		
		.25		.2557		
		.5		.2557		
	0821	1		.2556		
	0822	2		.2555		
	0824	4		.2553		
	0829	9		.2552		
	0836	16		.2551		
	0850	30		.2549		

631 CONTINUED ON REVERSE SIDE

ADVANCED TERRA TESTING

GL-133 7.5-9.5'
405055

474
PAGE 2 OF 2

CONSOLIDATION TEST DATA SHEET (CONTINUED)

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOLIDATION
6-14-95	0920	60	6400 cont	~~.2584~~ .2544		
	1020	120		.2542		
	1220	240		.2536		
	1620	480		.2529		
6-15-95	0823			.2514	.0376	.0254
			12800			
		.1		~~.2519~~ .2497		
		.25		.2493		
		.5		.2491		
	0824	1		.2490		
	0825	2		.2488		
	0827	4		.2487		
	0832	9		.2484		
	0839	16		.2482		
	0853	30		.2480		
	0923	60		.2477		
	1023	120		.2472		
	1223	240		.2465		
	1623	480		.2457		
6-16-95	824			.2441	.0449	.0307
		.1	25600	.2409		
		.25		.2406		
		.5		.2404		
	825	1		.2401		
	826	2		.2398		
	828	4		.2395		
	833	9		.2390		
	840	16		.2386		
	854	30		.2383		
	924	60		.2378		
	1024	120		.2373		
	1224	240		.2367		
	1624	480		.2356		
6-17-95	0754			.2337	.0553	.0386
			6400			
	0833	1		.2357		
	0834	2		.2358		
	0902			.2359		
	1241			.2360	.0530	.0380
			1600			
	1243	1		.2376		
	1244	2		.2377		
	1611			.2381		
6-18-95	0814			.2384	.0506	.0375
			400			
	0938	1		.2391		
	0939	2		.2391		
	1027			.2393		
	1246			.2394	.0496	.0402
			100			
	1247	1		.2399		
	1248	2		.2399		
6-19-95	0954			.2406		
	1212			.2406	.0484	.0416

CONSOLIDATION TEST
ASTM D 2435
(Saturated)

CONSOLIDATION TEST
ASTM D-2435

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13D

BORING NO.	G2-126	SAMPLED	4-24-95 JM
DEPTH	35.0-37.0'	TEST STARTED	6-1-95 WEB
SAMPLE NO.	404783	TEST FINISHED	6-9-95 WEB
SOIL DESCR.	Fernald	CELL NUMBER	ATT-16
Note: Saturated			
SAMPLE DIA.(in)	2.410	INITIAL HT.(in)	1.000

MOISTURE/DENSITY DATA	BEFORE TEST	AFTER TEST
Wt. Soil & Ring(s) (g)	216.2	214.8
Wt. Ring(s) (g)	46.2	46.2
Wt. Soil (g)	170.0	168.6
Wet Density PCF	141.9	144.0
Wt. Wet Soil & Pan (g)	173.7	172.4
Wt. Dry Soil & Pan (g)	154.7	154.7
Wt. Lost Moisture (g)	19.0	17.7
Wt. of Pan Only (g)	3.7	3.7
Wt. of Dry Soil (g)	150.9	150.9
Moisture Content %	12.6	11.7
Dry Density PCF	126.0	128.9

LOAD (PSF)	CONSOL. (IN.)
100	0.0000
100	-0.0003
200	0.0000
400	0.0016
800	0.0052
1600	0.0109
3200	0.0182
6400	0.0247
12800	0.0374
25600	0.0511
6400	0.0420
1600	0.0365
400	0.0295
100	0.0220

	LOAD (PSF)	LOG p	CONSOL. (IN.)	DEFL. (IN.)	VOID RATIO e
	100	2.000	0.0000	0.0000	0.3571
Saturate	100	2.000	-0.0003	0.0003	0.3576
	200	2.301	0.0000	0.0000	0.3571
	400	2.602	0.0016	-0.0016	0.3550
	800	2.903	0.0052	-0.0052	0.3501
	1600	3.204	0.0109	-0.0109	0.3424
	3200	3.505	0.0182	-0.0182	0.3324
	6400	3.806	0.0247	-0.0247	0.3236
	12800	4.107	0.0374	-0.0374	0.3064
	25600	4.408	0.0511	-0.0511	0.2878
	6400	3.806	0.0420	-0.0420	0.3001
	1600	3.204	0.0365	-0.0365	0.3076
	400	2.602	0.0295	-0.0295	0.3171
	100	2.000	0.0220	-0.0220	0.3273

% Saturation	96.8
Sp. Gr. (g/cc)	2.740
Init. Ht. Solids (cm)	1.872
Init. Ht. Voids (cm)	0.668
Init. Void Ratio	0.3571

Data entry by: NAA Date: 6-14-95
Data checked by: GJ Date: 8-12-95
FileName:SAC0783S

ADVANCED TERRA TESTING, INC.

TIME READING DATA

G2-126
35.0-37.0'

1600 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.2847	0.0000
0.1	0.32	0.2863	-0.0016
0.3	0.50	0.2867	-0.0020
0.5	0.71	0.2870	-0.0023
1.0	1.00	0.2872	-0.0025
2.0	1.41	0.2876	-0.0029
4.0	2.00	0.2881	-0.0034
9.0	3.00	0.2889	-0.0042
16.0	4.00	0.2896	-0.0049
30.0	5.48	0.2901	-0.0054
60.0	7.75	0.2906	-0.0059
120.0	10.95	0.2910	-0.0063
240.0	15.49	0.2913	-0.0066
480.0	21.91	0.2917	-0.0070

3200 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.2917	0.0000
0.1	0.32	0.2940	-0.0023
0.3	0.50	0.2946	-0.0029
0.5	0.71	0.2949	-0.0032
1.0	1.00	0.2953	-0.0036
2.0	1.41	0.2959	-0.0042
4.0	2.00	0.2966	-0.0049
9.0	3.00	0.2976	-0.0059
16.0	4.00	0.2983	-0.0066
30.0	5.48	0.2991	-0.0074
60.0	7.75	0.2996	-0.0079
240.0	15.49	0.3003	-0.0086
480.0	21.91	0.3006	-0.0089

6400 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.3009	0.0000
0.1	0.32	0.3026	-0.0017
0.3	0.50	0.3030	-0.0021
0.5	0.71	0.3034	-0.0025
1.0	1.00	0.3040	-0.0031
2.0	1.41	0.3048	-0.0039
4.0	2.00	0.3055	-0.0046
9.0	3.00	0.3066	-0.0057
16.0	4.00	0.3072	-0.0063
30.0	5.48	0.3079	-0.0070
60.0	7.75	0.3084	-0.0075
120.0	10.95	0.3088	-0.0079
240.0	15.49	0.3092	-0.0083
480.0	21.91	0.3095	-0.0086

12800 psf Load

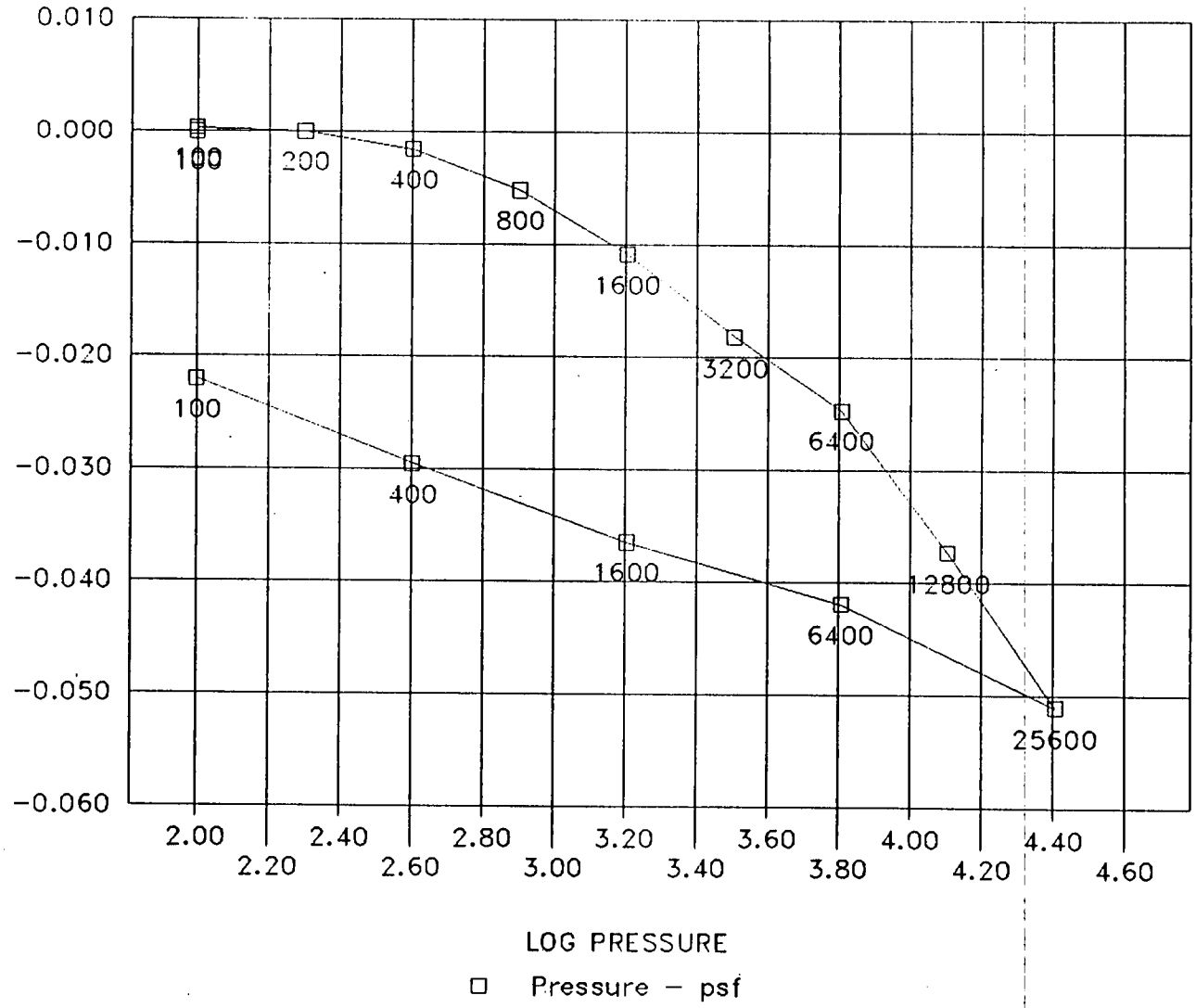
Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.3095	0.0000
0.1	0.32	0.3149	-0.0054
0.3	0.50	0.3154	-0.0059
0.5	0.71	0.3161	-0.0066
1.0	1.00	0.3170	-0.0075
2.0	1.41	0.3182	-0.0087
4.0	2.00	0.3196	-0.0101
9.0	3.00	0.3212	-0.0117
16.0	4.00	0.3221	-0.0126
30.0	5.48	0.3229	-0.0134
60.0	7.75	0.3234	-0.0139
120.0	10.95	0.3240	-0.0145
240.0	15.49	0.3244	-0.0149
480.0	21.91	0.3248	-0.0153

Data entry by: NAA Date: 6-14-95
Data checked by: DSR Date: 6-15-95
FileName:SAC0783S

ADVANCED TERRA TESTING, INC.

CONSOLIDATION TEST DATA

G2-126,404783,35.0-37.0'



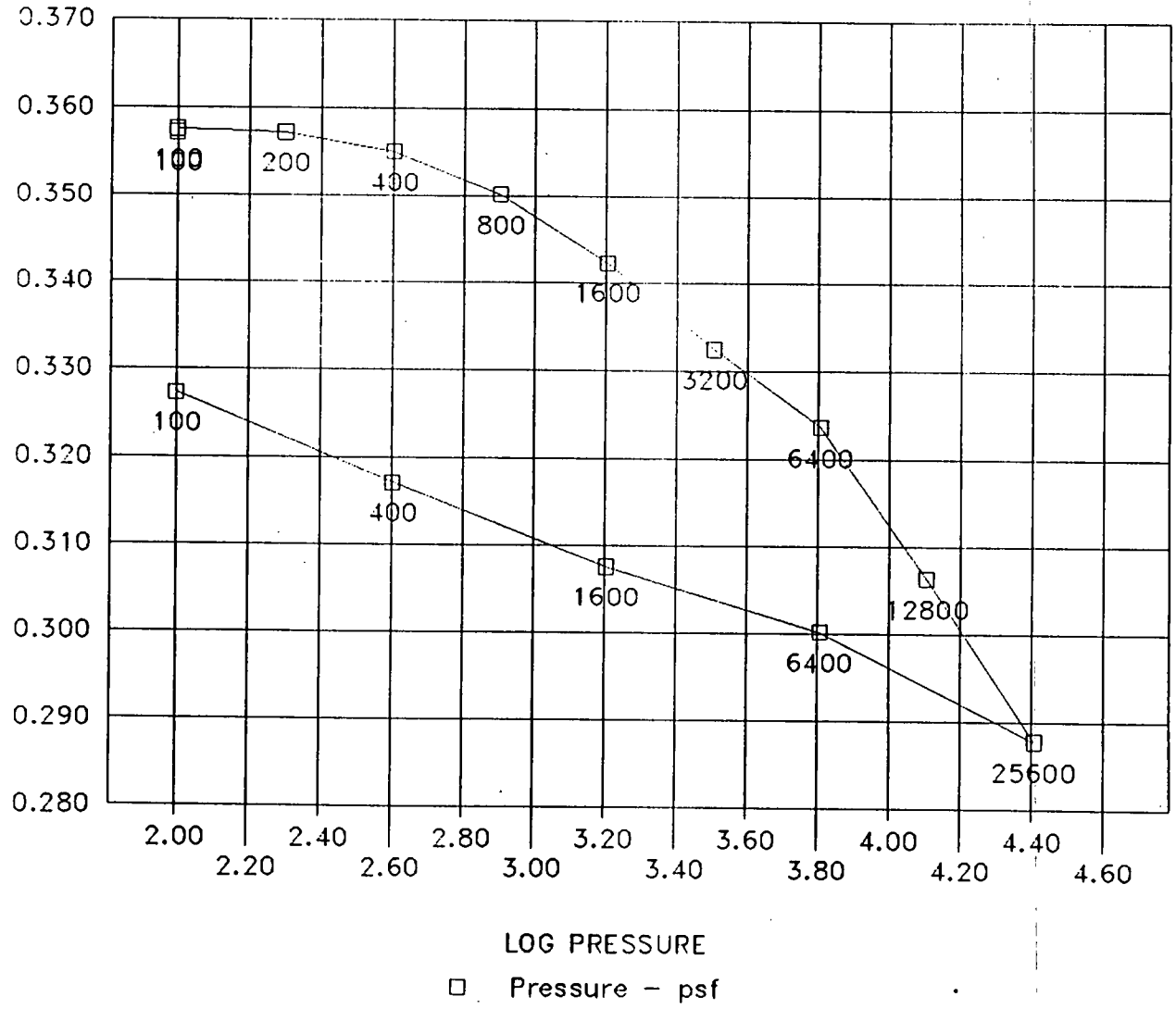
636

000702

474

CONSOLIDATION TEST DATA

G2-126,404783,35.0-37.0'



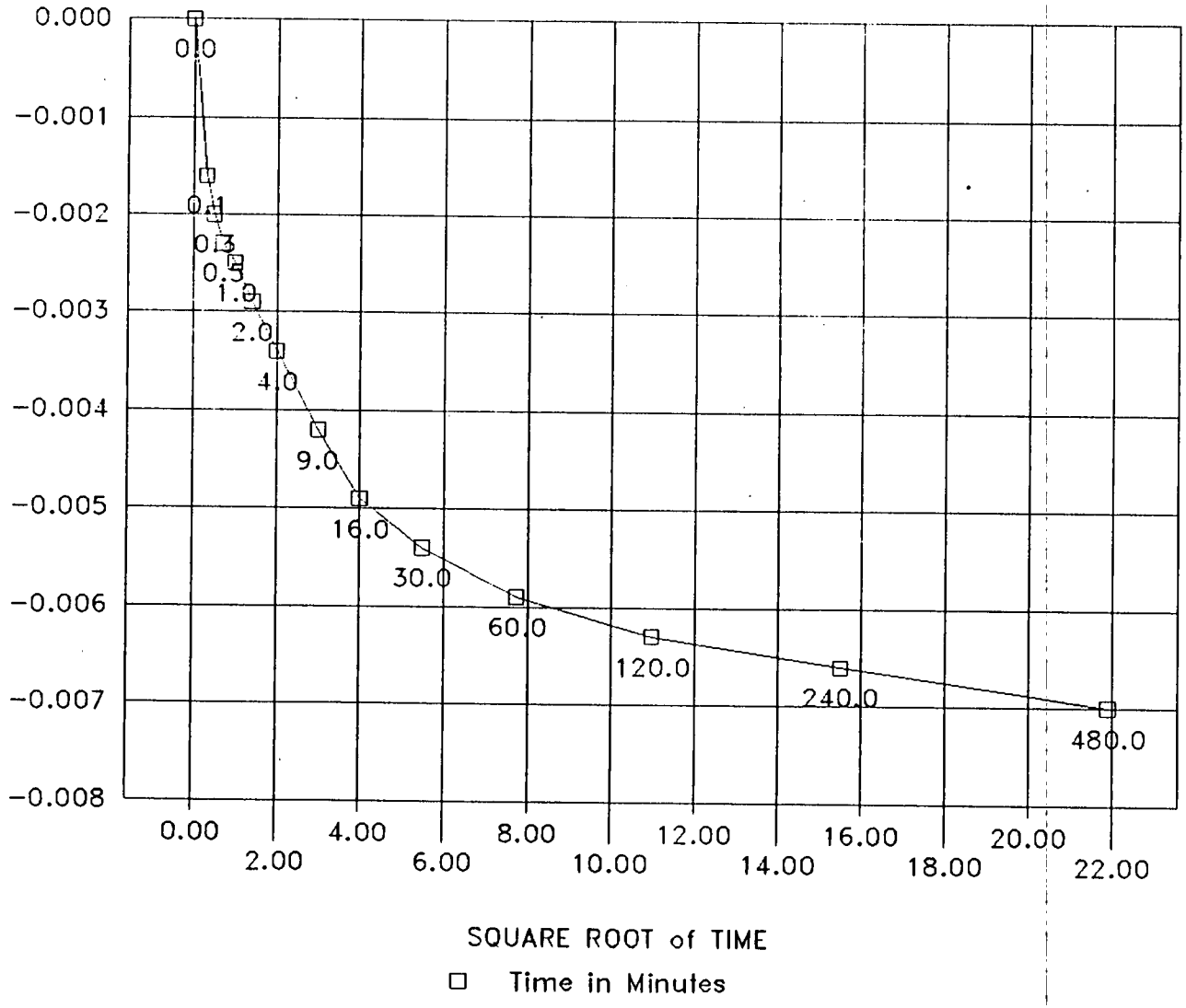
637

000703

474

TIME READING DATA

G2-126,404783,35.0-37.0',1600 psf Load



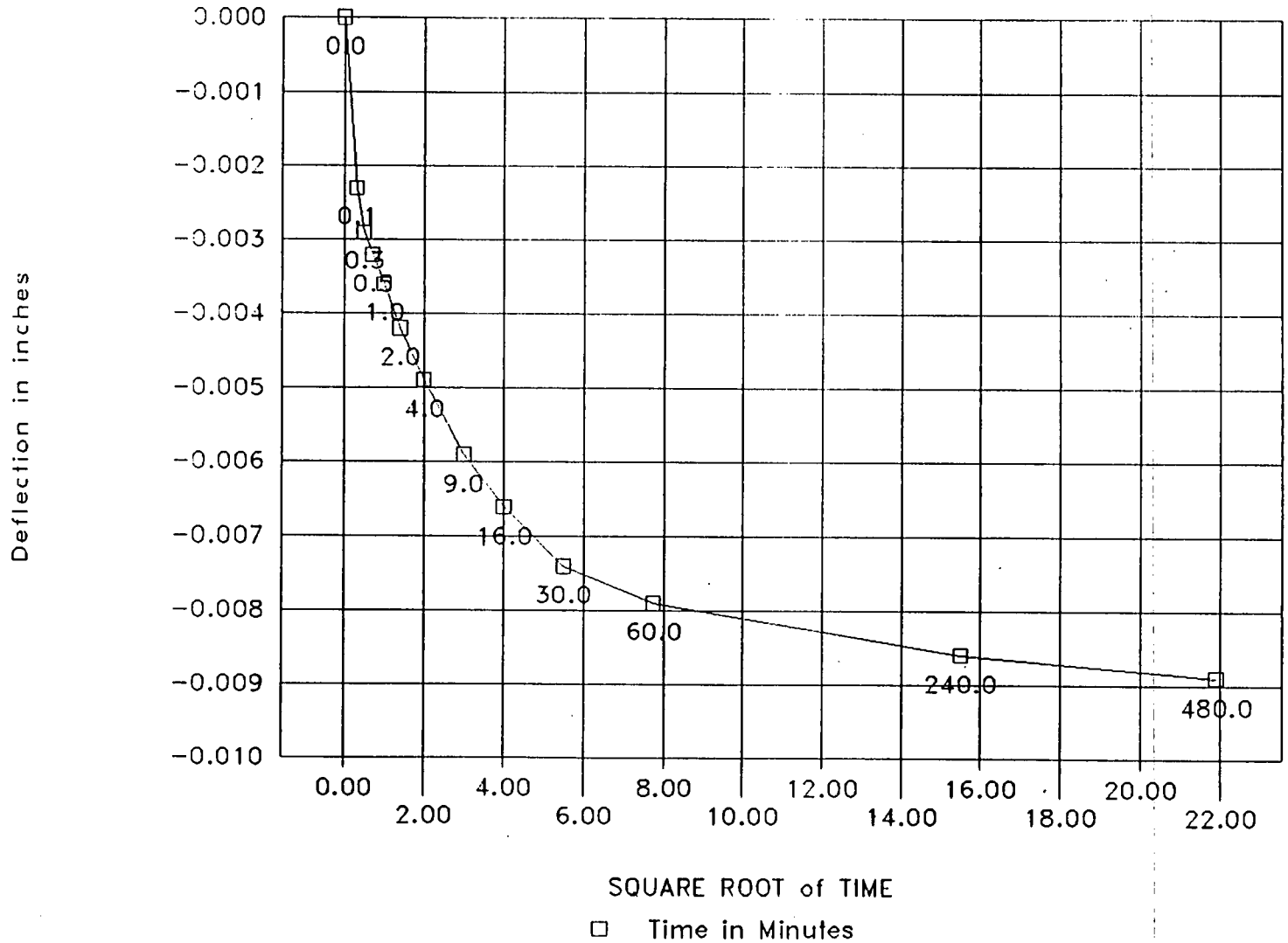
638

000701

4744

TIME READING DATA

G2-126,404783,35.0-37.0',3200 psf Load



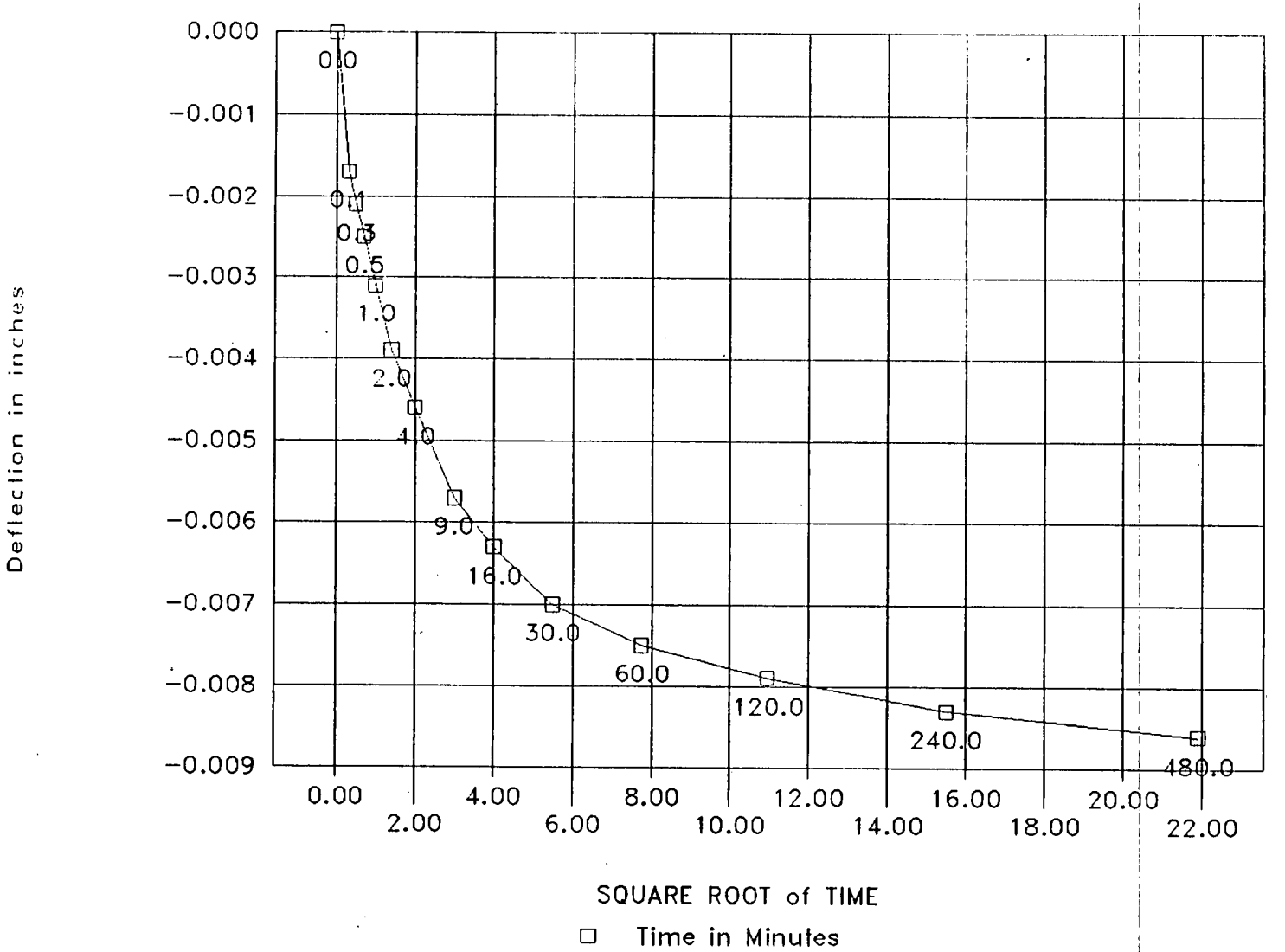
639

000705

474

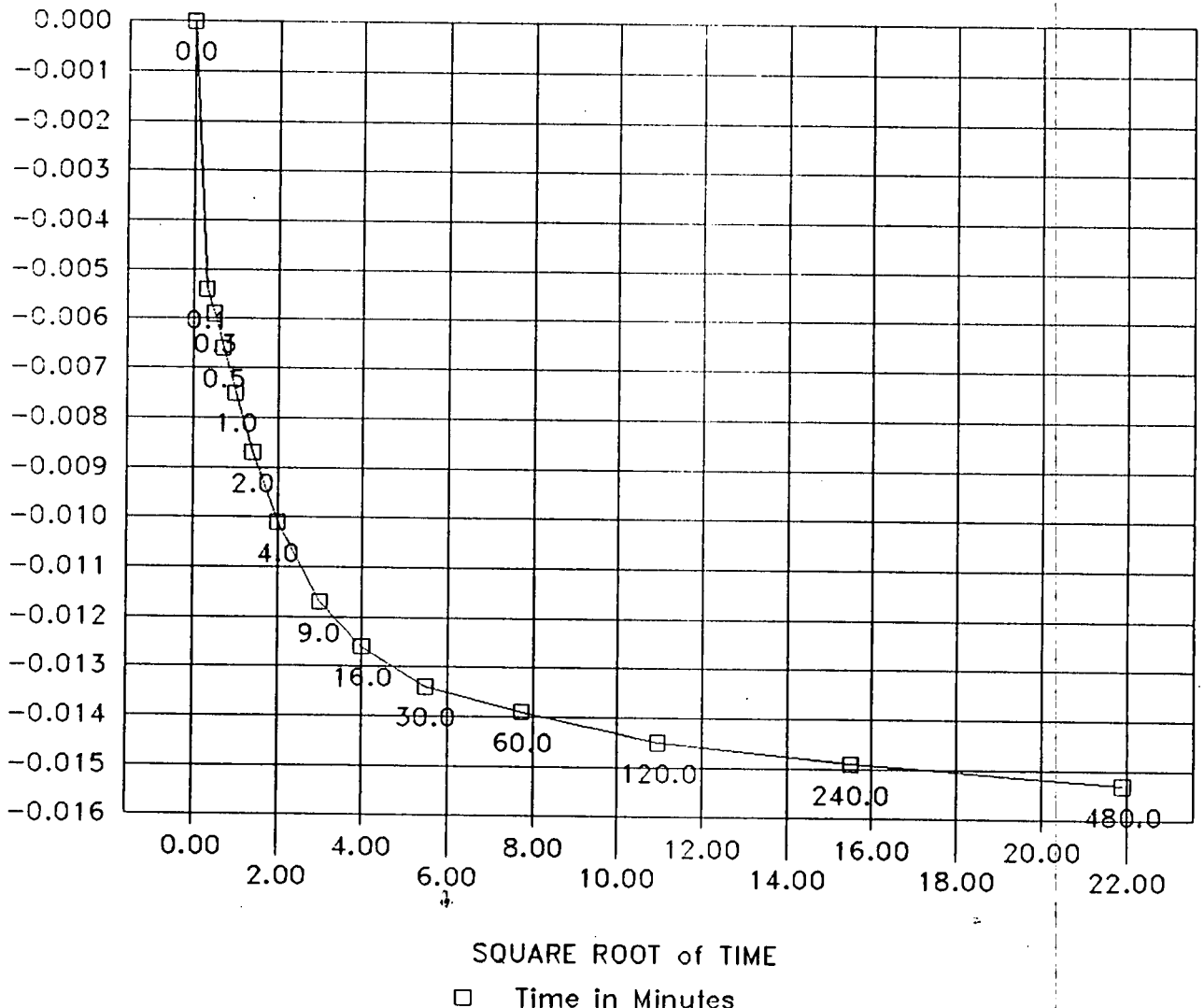
TIME READING DATA

G2-126,404783,35.0-37.0',6400 psf Load



TIME READING DATA

G2-126,404783,35.0-37.0',12800 psf Load



CONSOLIDATION TEST DATA SHEET SACØ7835 > AC11835 2 SACC7835 3 SACE7835 4

474

JOB SAIC / PARSONS PO140 JOB NO. 2059-13D

DATE SAMPLED 5-24-95 JM BORING NO. G2-126

TEST STARTED 6-1-95 BY WEB TEST FINISHED 6-9-95 BY WEB DEPTH 35-37' SAMPLE 40478

SOIL TYPE FERNALD

CONSOLIDOMETER NO. ATT-16 INITIAL SAMPLE HEIGHT 1.00" D_o: 2.41"

MOISTURE & DENSITY DATA	BEFORE TEST	AFTER TEST
WT. OF RING(S) + SOIL	216.18 g	214.84
WT. OF RING(S) ONLY	46.21 g	46.21 g
WT. OF SOIL (NET)		
WET DENSITY IN LBS/CU. FT.*		
WT. OF WET SOIL + DISH NO. DØ		
INT. OF DRY SOIL + DISH		
WT. OF LOST MOISTURE		
WT. OF DISH ONLY	3.73	
WT. OF DRY SOIL		
MOISTURE AS % OF DRY WT.		
DRY DENSITY IN LBS/CU. FT.		

TEST INSTRUCTIONS

LOAD CYCLE 100 WET 200 400 800 1600 TR 3200 6400 TR 12800 TR 25600

SPECIAL INSTRUCTION AND NOTES

Dry WT SOIL + PAN + Ring = 200.8

CONs SATURATED!

SpGr = ~~200.87~~ 2.74

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOLIDATION
6-1-95	0941	0	100	.2751		
	0951	10		.2765		
			WET			
	0953	1		.2765		
	0954	2		.2765		
	1056			.2762	+.0003	-.0003
			200			
	1057	1		.2768		
	1058	2		.2769		
	1200			.2772	.0007	.0000
			400			
	1201	1		.2786		
	1202	2		.2788		
	1339			.2798		
	1458			.2799	.0034	.0016
			800			
	1459	1		.2822		
	1500	2		.2825		
6	1604			.2843		
6-2-95	803			.2847	-.0082	.0052
			1600			
	0821	.1		.2863		
		.25		.2867		
		.5		.2870		
	0822	1		.2872		
	0823	2		.2876		
	0825	4		.2881		
	0830	9		.2889		
	0837	16		.2896		
	0851	30		.2901		

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOLIDATION
	0921	60	1600	.2906		
	1021	120		.2910		
	1221	240		.2913		
	1621	480		.2917		
6-3-95	1023			.2917	.0152	.0109
			3200			
		.1		.2940		
		.25		.2946		
		.5		.2949		
	1057	1		.2953		
	1058	2		.2959		
	1100	4		.2966		
	1105	9		.2976		
	1112	16		.2983		
	1126	30		.2991		
	1156	60		.2996		
	1256	120		—		
	1456	240		.3003		
	1856	480		.3006		
6-4-95	0855			.3006		
6-5-95	0840			.3009	.0244	.0182
			6400			
	0841	.1		.3026		
		.25		.3030		
		.5		.3034		
	0842	1		.3040		
	0843	2		.3048		
	0845	4		.3055		
	0850	9		.3066		
	0857	16		.3072		

ADVANCED TERRA TESTING

642

CONTINUED ON REVERSE SIDE

CONSOLIDATION TEST DATA SHEET (CONTINUED)

G2-126
404783
35-37'

DATE	TIME	E-LAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOL-IDATION
6-5-95	0911	30	6400	.3079		
	0941	60		.3084		
	1041	120		.3088		
	1241	240		.3092		
	1641	480		.3095		
6-6-95	0847			.3095	.0330	.0247
			12800			
		.1		.3149		
		.25		.3154		
		.5		.3161		
	0848	1		.3170		
	0849	2		.3182		
	0851	4		.3196		
	0856	9		.3212		
	0903	16		.3221		
	0917	30		.3229		
	0947	60		.3234		
	1047	120		.3240		
	1247	240		.3249		
	1647	480		.3248		
6-7-95	0822			.3249	.0484	.0374
			25600			
	0823	1		.3332		
	0824	2		.3346		
	1002			.3408		
	1215			.3415		
	1427			.3418	.0653	.0511
	REBOUND!!		6400			
	1428	1		.3370		
	1429	2		.3371		
	1548			.3362		
	1703			.3362	.0547	.0420
			1600			
	1704	1		.3328		
	1705	2		.3323		
6-8-95	0819			.3288		
	1013			.3288	.0523	.0365
			400			
	1015	1		.3270		
	1016	2		.3265		
	1124			.3220		
	1233			.3212		
	1409			.3207		
	1515			.3206	.0441	.0295
			100			
	1516	1		.3198		
	1517	2		.3195		
	1621			.3160		
6-9-95	0826			.3124		
	0955			.3124	.0359	.0220

DATE	TIME	E-LAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOL-IDATION

CONSOLIDATION TEST
ASTM D-2435

CLIENT SAIC/Parsons PO 140 JOB NO. 2059-13D

BORING NO.	G2-127	SAMPLED	4-21-95 MG
DEPTH	7.5-9.5'	TEST STARTED	6-1-95 DSR
SAMPLE NO.	404751	TEST FINISHED	6-9-95 WB
SOIL DESCR.	Fernald	CELL NUMBER	ATT-15
Note: Saturated			
SAMPLE DIA.(in)	2.410	INITIAL HT.(in)	1.000

MOISTURE/DENSITY DATA	BEFORE TEST	AFTER TEST
Wt. Soil & Ring(s) (g)	213.9	213.7
Wt. Ring(s) (g)	46.3	46.3
Wt. Soil (g)	167.6	167.4
Wet Density PCF	140.0	143.2
Wt. Wet Soil & Pan (g)	171.3	171.1
Wt. Dry Soil & Pan (g)	151.3	151.3
Wt. Lost Moisture (g)	20.0	19.8
Wt. of Pan Only (g)	3.7	3.7
Wt. of Dry Soil (g)	147.6	147.6
Moisture Content %	13.5	13.4
Dry Density PCF	123.3	126.3

LOAD (PSF)	CONSOL. (IN.)
100	0.0000
100	-0.0017
200	-0.0020
400	-0.0003
800	0.0071
1600	0.0134
3200	0.0205
6400	0.0294
12800	0.0419
25600	0.0571
6400	0.0496
1600	0.0405
400	0.0318
100	0.0239

	LOAD (PSF)	LOG p	CONSOL. (IN.)	DEFL. (IN.)	VOID RATIO e
	100	2.000	0.0000	0.0000	0.3877
Saturate	100	2.000	-0.0017	0.0017	0.3900
	200	2.301	-0.0020	0.0020	0.3904
	400	2.602	-0.0003	0.0003	0.3881
	800	2.903	0.0071	-0.0071	0.3778
	1600	3.204	0.0134	-0.0134	0.3691
	3200	3.505	0.0205	-0.0205	0.3592
	6400	3.806	0.0294	-0.0294	0.3469
	12800	4.107	0.0419	-0.0419	0.3295
	25600	4.408	0.0571	-0.0571	0.3084
	6400	3.806	0.0496	-0.0496	0.3188
	1600	3.204	0.0405	-0.0405	0.3315
	400	2.602	0.0318	-0.0318	0.3435
	100	2.000	0.0239	-0.0239	0.3545

% Saturation	95.7
Sp. Gr. (g/cc)	2.740
Init. Ht. Solids (cm)	1.830
Init. Ht. Voids (cm)	0.710
Init. Void Ratio	0.3877

Data entry by: NAA Date: 6-13-95
Data checked by: CJ Date: 8-12-95
FileName:SAC0751S

ADVANCED TERRA TESTING, INC.

TIME READING DATA

G2-127
7.5-9.5'

1600 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.1130	0.0000
0.1	0.32	0.1155	-0.0025
0.3	0.50	0.1159	-0.0029
0.5	0.71	0.1161	-0.0031
1.0	1.00	0.1164	-0.0034
2.0	1.41	0.1168	-0.0038
4.0	2.00	0.1172	-0.0042
9.0	3.00	0.1178	-0.0048
16.0	4.00	0.1182	-0.0052
30.0	5.48	0.1188	-0.0058
60.0	7.75	0.1193	-0.0063
120.0	10.95	0.1198	-0.0068
240.0	15.49	0.1203	-0.0073
480.0	21.91	0.1208	-0.0078

3200 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.1209	0.0000
0.1	0.32	0.1236	-0.0027
0.3	0.50	0.1240	-0.0031
0.5	0.71	0.1243	-0.0034
1.0	1.00	0.1247	-0.0038
2.0	1.41	0.1252	-0.0043
4.0	2.00	0.1258	-0.0049
9.0	3.00	0.1266	-0.0057
16.0	4.00	0.1272	-0.0063
30.0	5.48	0.1280	-0.0071
60.0	7.75	0.1289	-0.0080
240.0	15.49	0.1299	-0.0090
480.0	21.91	0.1303	-0.0094

6400 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.1306	0.0000
0.1	0.32	0.1330	-0.0024
0.3	0.50	0.1334	-0.0028
0.5	0.71	0.1338	-0.0032
1.0	1.00	0.1342	-0.0036
2.0	1.41	0.1348	-0.0042
4.0	2.00	0.1356	-0.0050
9.0	3.00	0.1366	-0.0060
16.0	4.00	0.1376	-0.0070
30.0	5.48	0.1385	-0.0079
60.0	7.75	0.1394	-0.0088
120.0	10.95	0.1400	-0.0094
240.0	15.49	0.1405	-0.0099
480.0	21.91	0.1409	-0.0103

12800 psf Load

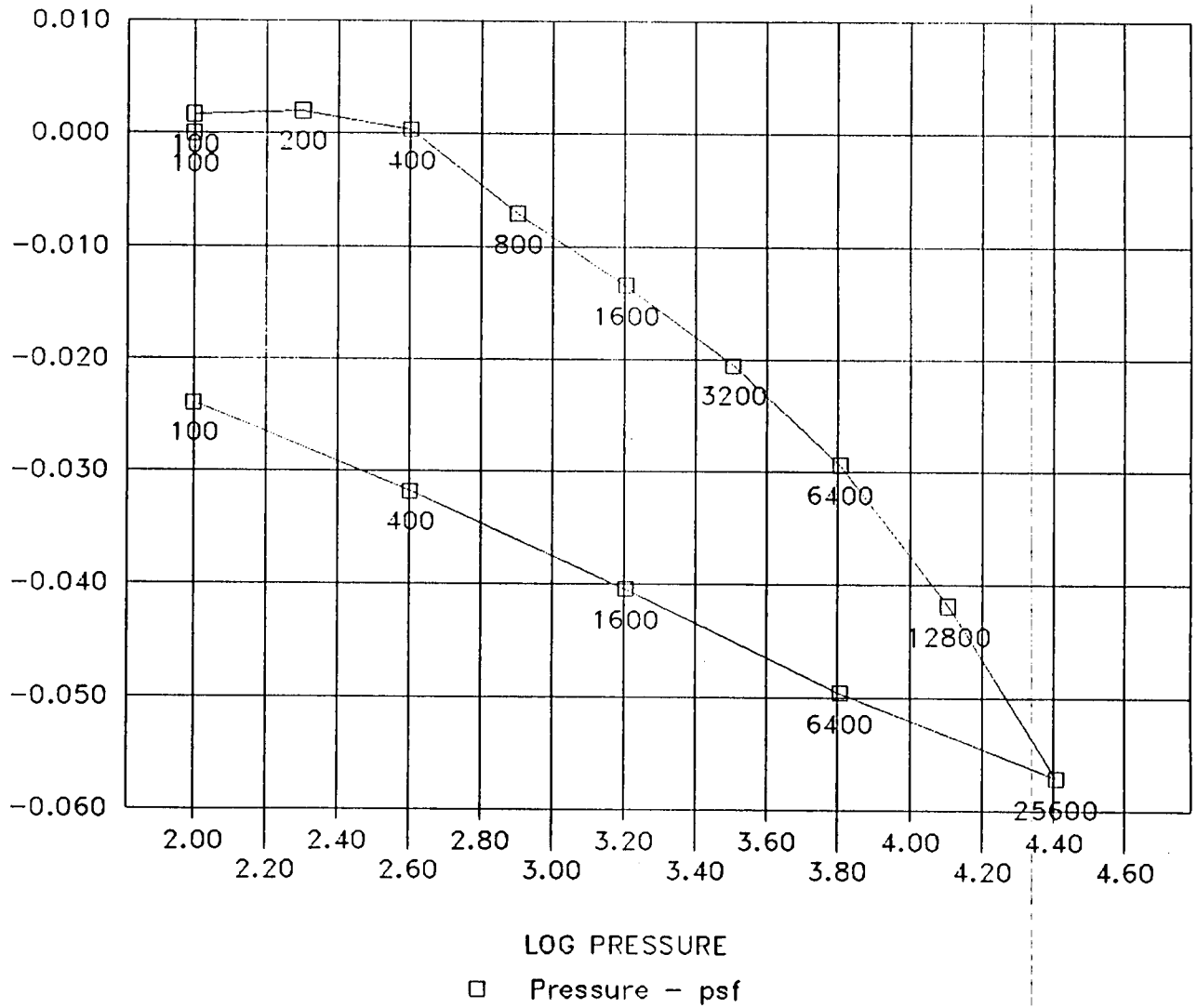
Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.1410	0.0000
0.1	0.32	0.1446	-0.0036
0.3	0.50	0.1451	-0.0041
0.5	0.71	0.1456	-0.0046
1.0	1.00	0.1462	-0.0052
2.0	1.41	0.1471	-0.0061
4.0	2.00	0.1483	-0.0073
9.0	3.00	0.1498	-0.0088
16.0	4.00	0.1512	-0.0102
30.0	5.48	0.1526	-0.0116
60.0	7.75	0.1538	-0.0128
120.0	10.95	0.1545	-0.0135
240.0	15.49	0.1551	-0.0141
480.0	21.91	0.1555	-0.0145

Data entry by: NAA Date: 6-13-95
Data checked by: DSR Date: 6-15-95
FileName:SAC0751S

ADVANCED TERRA TESTING, INC.

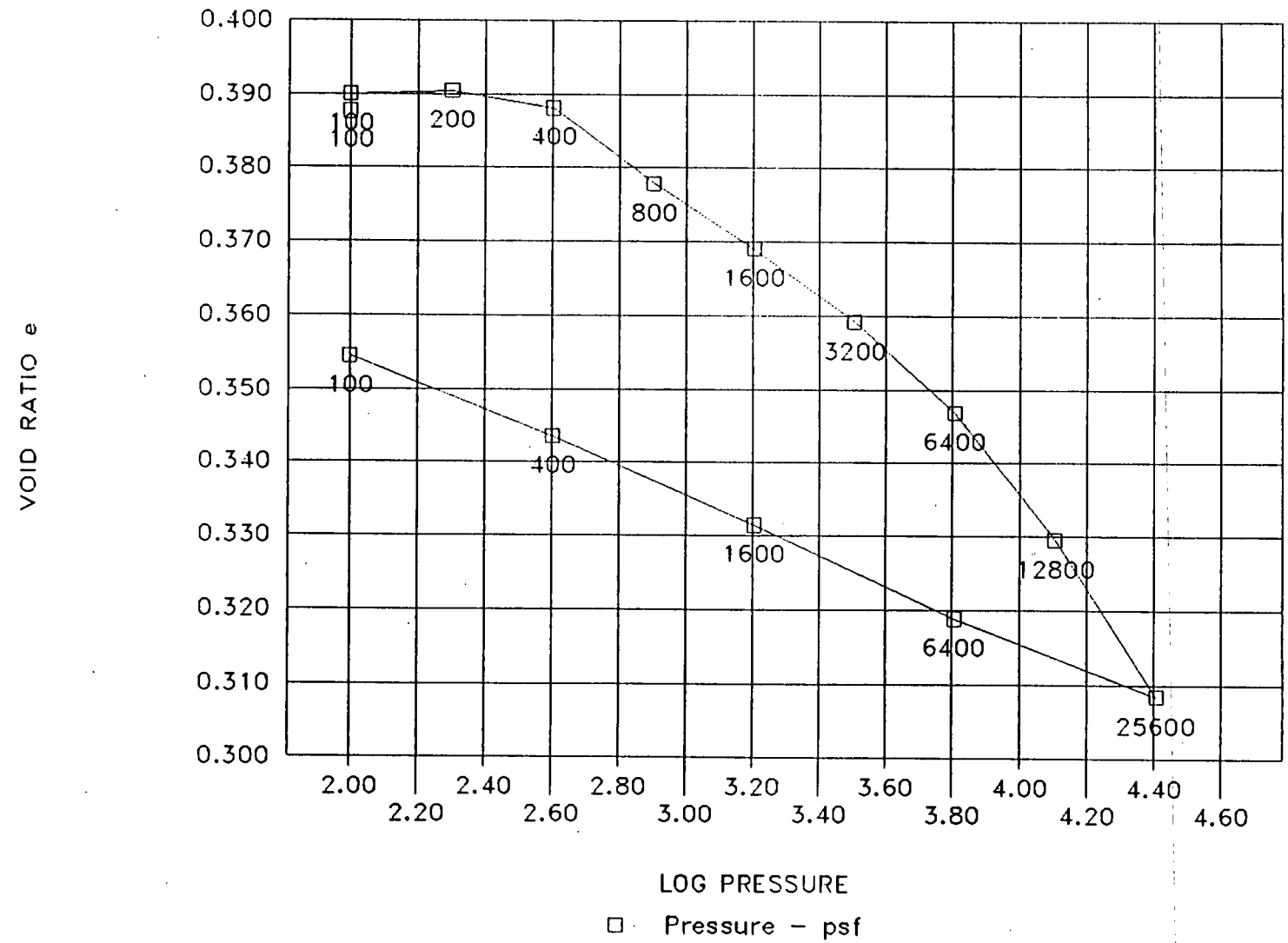
CONSOLIDATION TEST DATA

G2-127,404751,7.5-9.5'



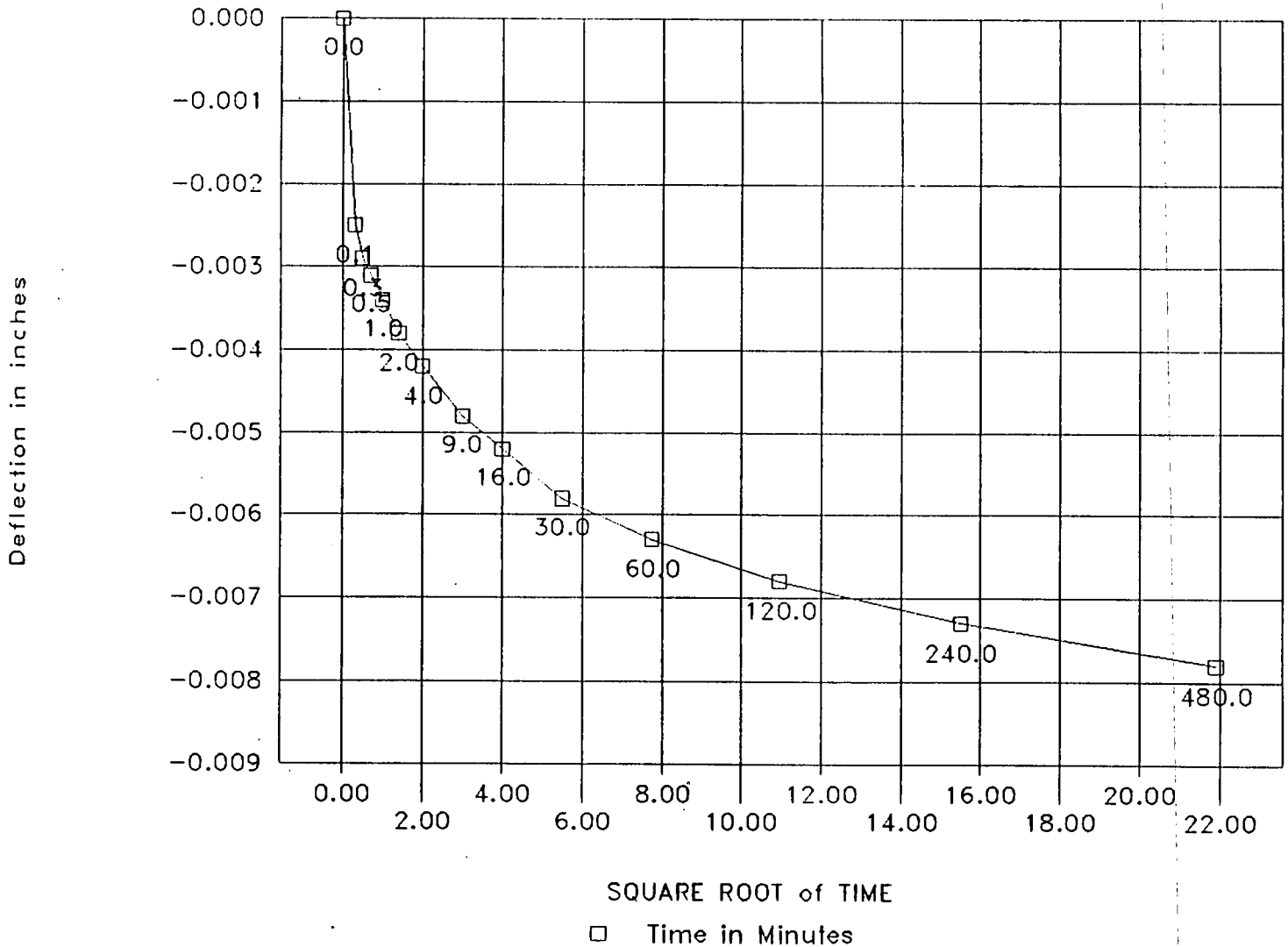
CONSOLIDATION TEST DATA

G2-127,404751,7.5-9.5'



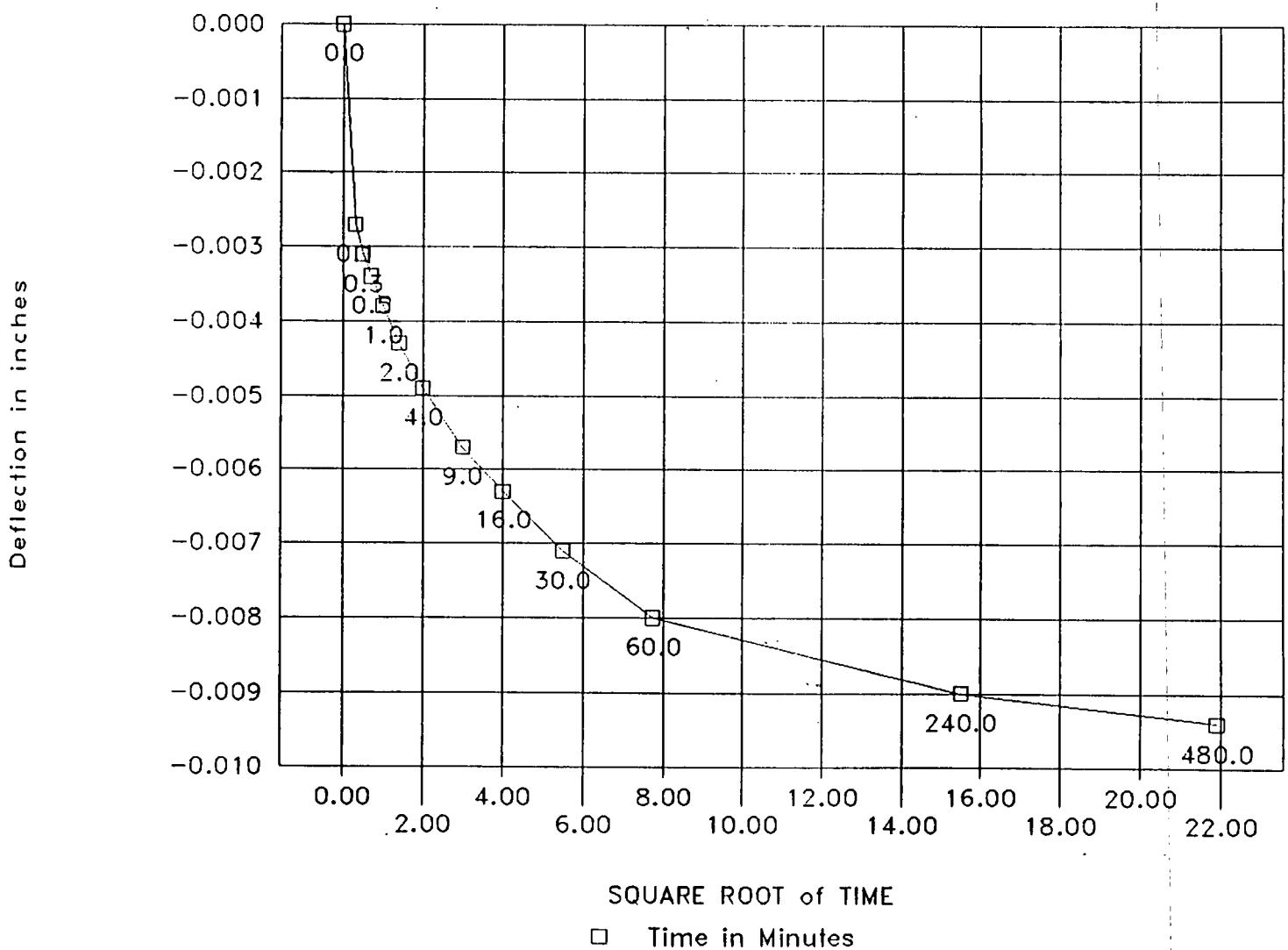
TIME READING DATA

G2-127,404751,7.5-9.5',1600 psf Load



TIME READING DATA

G2-127,404751,7.5-9.5',3200 psf Load



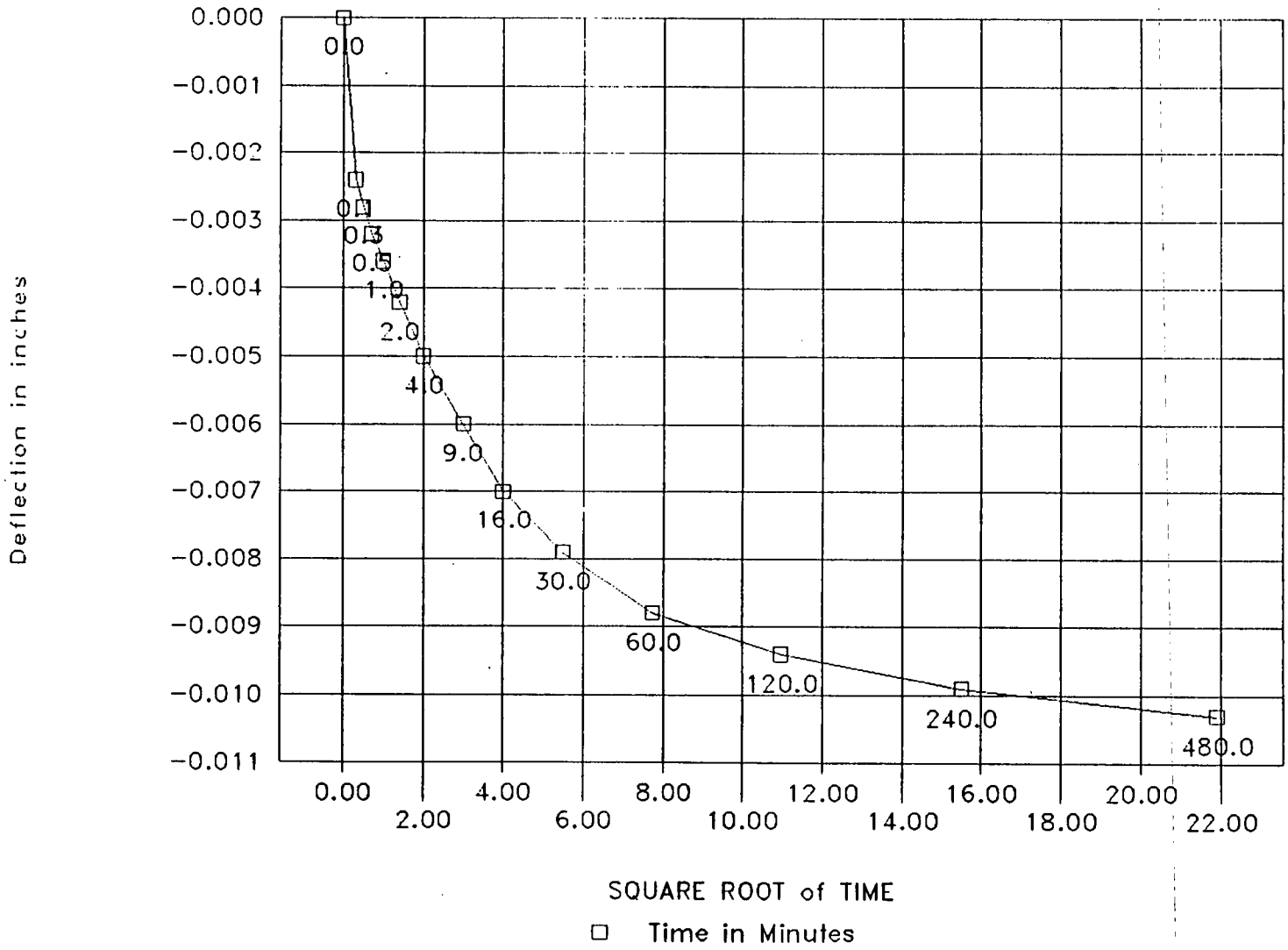
649

000715

474

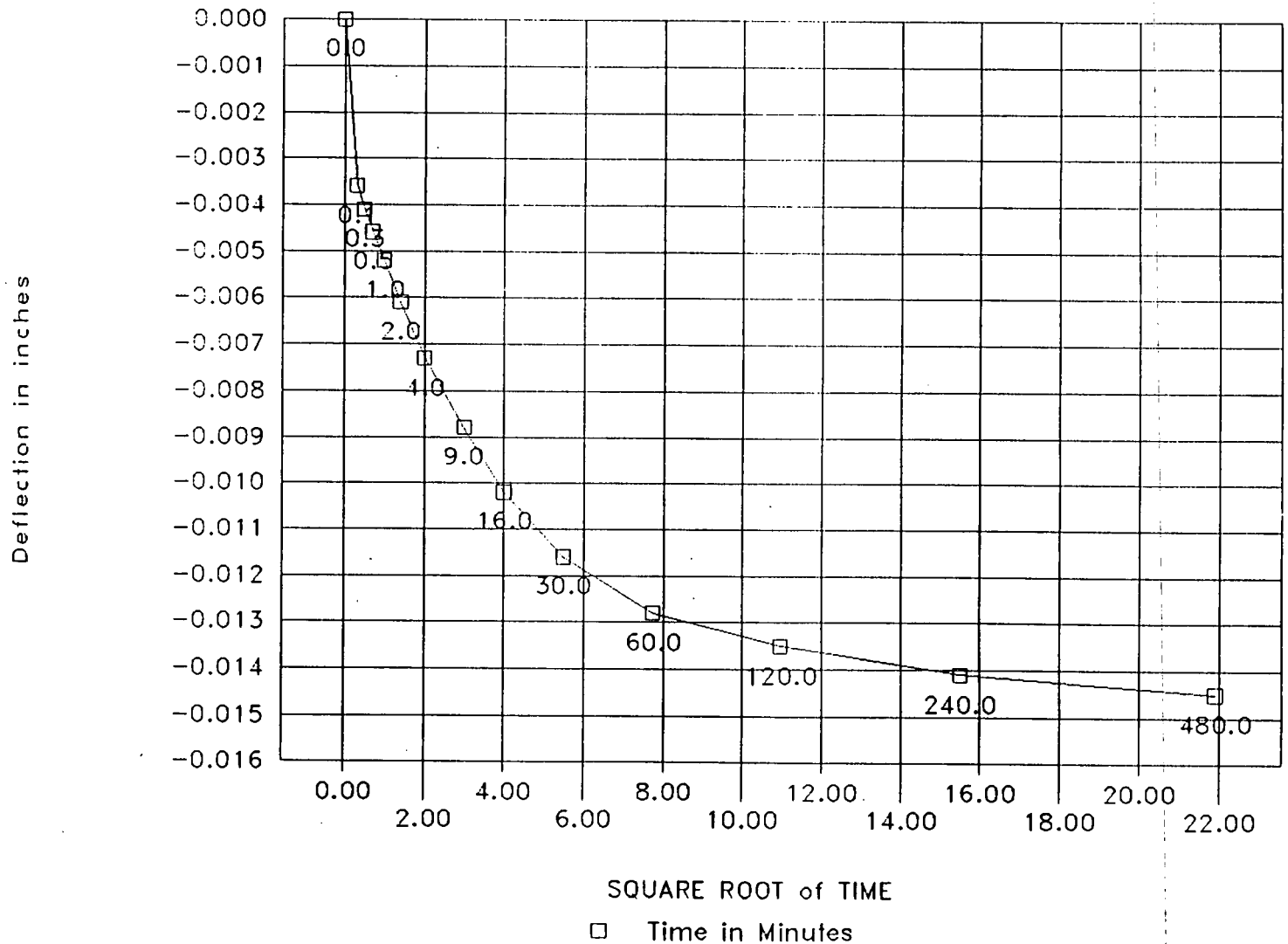
TIME READING DATA

G2-127,404751,7.5-9.5';6400 psf Load



TIME READING DATA

G2-127,404751,7.5-9.5',12800 psf Load



CONSOLIDATION TEST DATA SHEET

SACØ75IS SACI75IS
SACC75IS 2
SACG75IS 3
PO140 4

474 PAGE 1 OF 2

JOB SAIC / PARSONS JOB NO. 2059-13D

DATE SAMPLED 4-21-95 MG BORING NO. G2-127

TEST STARTED 6-1-95 BY WEB TEST FINISHED 6-9-95 BY WEB DEPTH 404751 7.5-9.5

SOIL TYPE FERNALD

CONSOLIDOMETER NO. ATT-15 INITIAL SAMPLE HEIGHT 1" D_o = 2.41"

MOISTURE & DENSITY DATA	BEFORE TEST	AFTER TEST
WT. OF RING(S) + SOIL	213.85g	213.69g
WT. OF RING(S) ONLY	46.30g	46.30g
WT. OF SOIL (NET)		
WET DENSITY IN LBS/CU. FT.*		
WT. OF WET SOIL + DISH NO. 52		
INT. OF DRY SOIL + DISH		
WT. OF LOST MOISTURE		
WT. OF DISH ONLY	3.68	
WT. OF DRY SOIL		
MOISTURE AS % OF DRY WT.		
DRY DENSITY IN LBS/CU. FT.		

TEST INSTRUCTIONS

LOAD CYCLE	100	WET	200
400	800	1600 TR	32 DL
6400 TR	12800 TR	25600	

SPECIAL INSTRUCTION AND NOTES

Dry WT SOIL + PAN + RING = 197.5

CONs SATURATED!

SpGr = 2.74

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOLIDATION
6-1-95	0843	0	100	.1021		
	0953	10		.1027		.0000
			WET WB			
	0955	1		.1027		
	0956	2		.1027		
	1055			.1011		
	1158			.1010	-.0017	-.0017
			200			
	1159	1		.1013		
	1200	2		.1013		
	1335			.1015	-.0012	-.0029
			400			
	1337	1		.1032		
	1338	2		.1033		
	1457			.1039		
	1606			.1042	.0015	-.0003
			800			
	1607	1				
	1608	2				
	1717			.1129		
6-2-95	803			.1130	.0103	.0071
			1600			
	0826	.1		.1155		
		.25		.1159		
		.5		.1161		
	0827	1		.1164		
	0828	2		.1168		
	0830	4		.1172		
	0835	9		.1178		
	0842	16		.1182		

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOLIDATION
	0856	30		.1188		
WEB	0906	60		.1193		
	1026	120		.1198		
	1226	240		.1203		
	1626	480		.1208		
6-3-95	1022			.1209	.0182	.0134
			3200			
		.1		.1236		
		.25		.1240		
		.5		.1243		
	1052	1		.1247		
	1053	2		.1252		
	1055	4		.1258		
	1100	9		.1266		
	1107	16		.1272		
	1121	30		.1280		
	1151	60		.1289		
	1251	120		—		
	1451	240		~~.13~~ .1299		
	1851	480		.1303		
6-4-95	0854			.1303		
	0855			.1306	.0279	.0205
			6400			
	0836	.1		.1330		
		.25		.1334		
		.5		.1338		
	0837	1		.1342		
	0838	2		.1348		
	0840	4		.1356		
	0845	9		.1366		

652 CONTINUED ON REVERSE SIDE

ADVANCED TERRA TESTING

SAIC/PARSONS FUTRO
G2-127
464251
7.5-9.5'

CONSOLIDATION TEST DATA SHEET (CONTINUED)

DATE	TIME	E-LAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOL-IDATION
6-5-95	0852	16	6400	.1376		
	0906	30		.1385		
	0936	60		.1394		
	1036	120		.1400		
	1236	240		.1405		
	1636	480		.1409		
6-6-95	0840			.1410	.0783	.0294 ✓
			12800			
	0842	.1		.1446		
		.25		.1451		
		.5		.1456		
	0843	1		.1462		
	0844	2		.1471		
	0846	4		.1483		
	0851	9		.1498		
	0858	16		.1512		
	0912	30		.1526		
	0942	60		.1538		
	1042	120		.1545		
	1242	240		.1551		
	1642	480		.1555		
6-7-95	0828			.1556	.0529	.0419
			25600			
	0829	1		.1618		
	0830	2		.1629		
	1001			.1722		
	1214			.1731		
	1425			.1733		
	1430			.1733	.0706	.0571
	REBOUND		6400			
	1431	1		.1696		
	1432	2		.1691		
	1548			.1675		
	1700			.1674	.0647	.0496 ✓
			1600			
	1702	1		.1644		
	1703	2		.1638		
6-8-95	0818			.1567		
	1011			.1567	.0540	.0405
			400			
	1012	1		.1550		
	1013	2		.1548		
	1124			.1500		
	1233			.1484		
	1408			.1476		
	1514			.1472		
	1621			.1469	.0447	.0318
			100			
	1623	1		.1461		
	1624	2		.1459		
6-9-95	0826		.1378	~~.1478~~	~~.0451~~	~~.0339~~ 6-14-95
	0949		.1378	~~.1478~~	.0351	.0239

DATE	TIME	E-LAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOL-IDATION

CONSOLIDATION TEST
ASTM D-2435

CLIENT SAIC/Parsons PO 140 JOB NO. 2059-13A

BORING NO.	G2-131	SAMPLED	4-13-95 MG
DEPTH	17.5-19.5'	TEST STARTED	6-1-95 DSR
SAMPLE NO.	404709	TEST FINISHED	6-10-95 DSR
SOIL DESCR.	Fernald	CELL NUMBER	ATT-8
Note: Saturated			
SAMPLE DIA.(in)	2.410	INITIAL HT.(in)	1.000

MOISTURE/DENSITY DATA		BEFORE TEST	AFTER TEST
Wt. Soil & Ring(s)	(g)	215.2	213.2
Wt. Ring(s)	(g)	46.1	46.1
Wt. Soil	(g)	169.1	167.1
Wet Density	PCF	141.2	144.9
Wt. Wet Soil & Pan	(g)	172.8	170.8
Wt. Dry Soil & Pan	(g)	151.6	151.6
Wt. Lost Moisture	(g)	21.2	19.2
Wt. of Pan Only	(g)	3.7	3.7
Wt. of Dry Soil	(g)	147.9	147.9
Moisture Content	%	14.4	13.0
Dry Density	PCF	123.5	128.2

LOAD (PSF)	CONSOL. (IN.)
100	0.0000
100	-0.0004
200	0.0009
400	0.0036
800	0.0086
1600	0.0136
3200	0.0185
6400	0.0270
12800	0.0376
25600	0.0596
6400	0.0519
3200	0.0508
1600	0.0485
400	0.0415
100	0.0371

	LOAD (PSF)	LOG p	CONSOL. (IN.)	DEFL. (IN.)	VOID RATIO e
	100	2.000	0.0000	0.0000	0.3804
Saturate	100	2.000	-0.0004	0.0004	0.3809
	200	2.301	0.0009	-0.0009	0.3791
	400	2.602	0.0036	-0.0036	0.3754
	800	2.903	0.0086	-0.0086	0.3685
	1600	3.204	0.0136	-0.0136	0.3616
	3200	3.505	0.0185	-0.0185	0.3548
	6400	3.806	0.0270	-0.0270	0.3431
	12800	4.107	0.0376	-0.0376	0.3285
	25600	4.408	0.0596	-0.0596	0.2981
	6400	3.806	0.0519	-0.0519	0.3087
	3200	3.505	0.0508	-0.0508	0.3102
	1600	3.204	0.0485	-0.0485	0.3134
	400	2.602	0.0415	-0.0415	0.3231
	100	2.000	0.0371	-0.0371	0.3292

% Saturation	103.1
Sp. Gr. (g/cc)	2.730
Init. Ht. Solids (cm)	1.840
Init. Ht. Voids (cm)	0.700
Init. Void Ratio	0.3804

Data entry by: NAA Date: 6-12-95
Data checked by: CL Date: 12-8-95
FileName:SAC0709B

ADVANCED TERRA TESTING, INC.

TIME READING DATA

G2-131
17.5-19.5'

1600 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.0098	0.0000
0.1	0.32	0.0116	-0.0018
0.3	0.50	0.0119	-0.0021
0.5	0.71	0.0121	-0.0023
1.0	1.00	0.0123	-0.0025
2.0	1.41	0.0127	-0.0029
4.0	2.00	0.0130	-0.0032
9.0	3.00	0.0135	-0.0037
16.0	4.00	0.0139	-0.0041
30.0	5.48	0.0143	-0.0045
60.0	7.75	0.0147	-0.0049
240.0	15.49	0.0153	-0.0055
480.0	21.91	0.0155	-0.0057

3200 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.0157	0.0000
0.1	0.32	0.0179	-0.0022
0.3	0.50	0.0183	-0.0026
0.5	0.71	0.0185	-0.0028
1.0	1.00	0.0188	-0.0031
2.0	1.41	0.0191	-0.0034
4.0	2.00	0.0196	-0.0039
9.0	3.00	0.0202	-0.0045
16.0	4.00	0.0206	-0.0049
30.0	5.48	0.0210	-0.0053
60.0	7.75	0.0214	-0.0057
120.0	10.95	0.0216	-0.0059
240.0	15.49	0.0218	-0.0061
480.0	21.91	0.0221	-0.0064

6400 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.0220	0.0000
0.1	0.32	0.0253	-0.0033
0.3	0.50	0.0257	-0.0037
0.5	0.71	0.0260	-0.0040
1.0	1.00	0.0265	-0.0045
2.0	1.41	0.0270	-0.0050
4.0	2.00	0.0279	-0.0059
9.0	3.00	0.0290	-0.0070
16.0	4.00	0.0300	-0.0080
30.0	5.48	0.0305	-0.0085
66.0	8.12	0.0312	-0.0092
120.0	10.95	0.0315	-0.0095
240.0	15.49	0.0317	-0.0097
480.0	21.91	0.0320	-0.0100

12800 psf Load

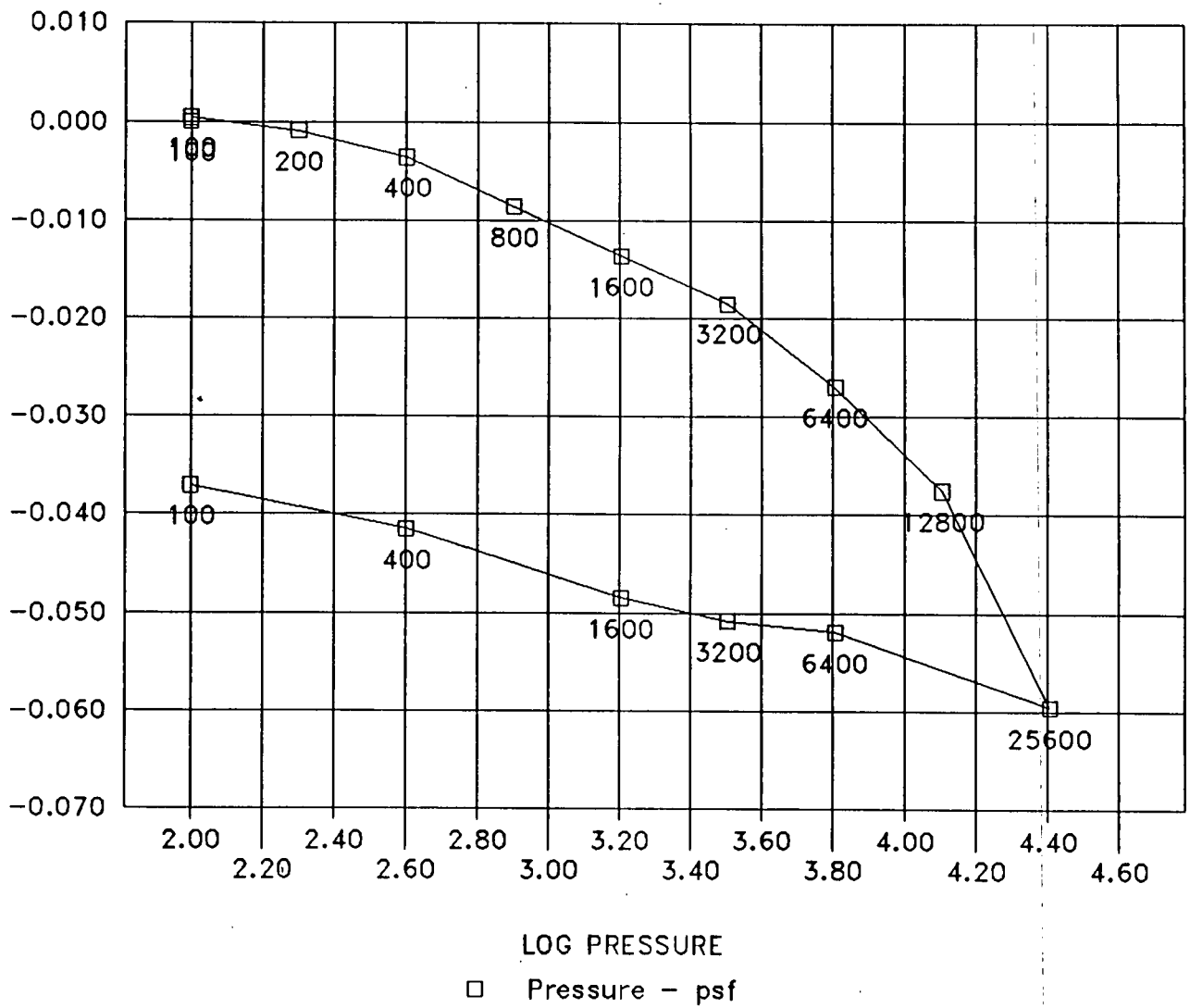
Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.0320	0.0000
0.1	0.32	0.0367	-0.0047
0.3	0.50	0.0374	-0.0054
0.5	0.71	0.0379	-0.0059
1.0	1.00	0.0385	-0.0065
2.0	1.41	0.0395	-0.0075
4.0	2.00	0.0405	-0.0085
9.0	3.00	0.0416	-0.0096
16.0	4.00	0.0423	-0.0103
30.0	5.48	0.0428	-0.0108
60.0	7.75	0.0433	-0.0113
120.0	10.95	0.0436	-0.0116
240.0	15.49	0.0440	-0.0120
483.0	21.98	0.0443	-0.0123

Data entry by: NAA Date: 6-12-95
Data checked by: (a) Date: 12-8-95
FileName:SAC0709B

ADVANCED TERRA TESTING, INC.

CONSOLIDATION TEST DATA

G2-131,404709 ,17.5-19.5'



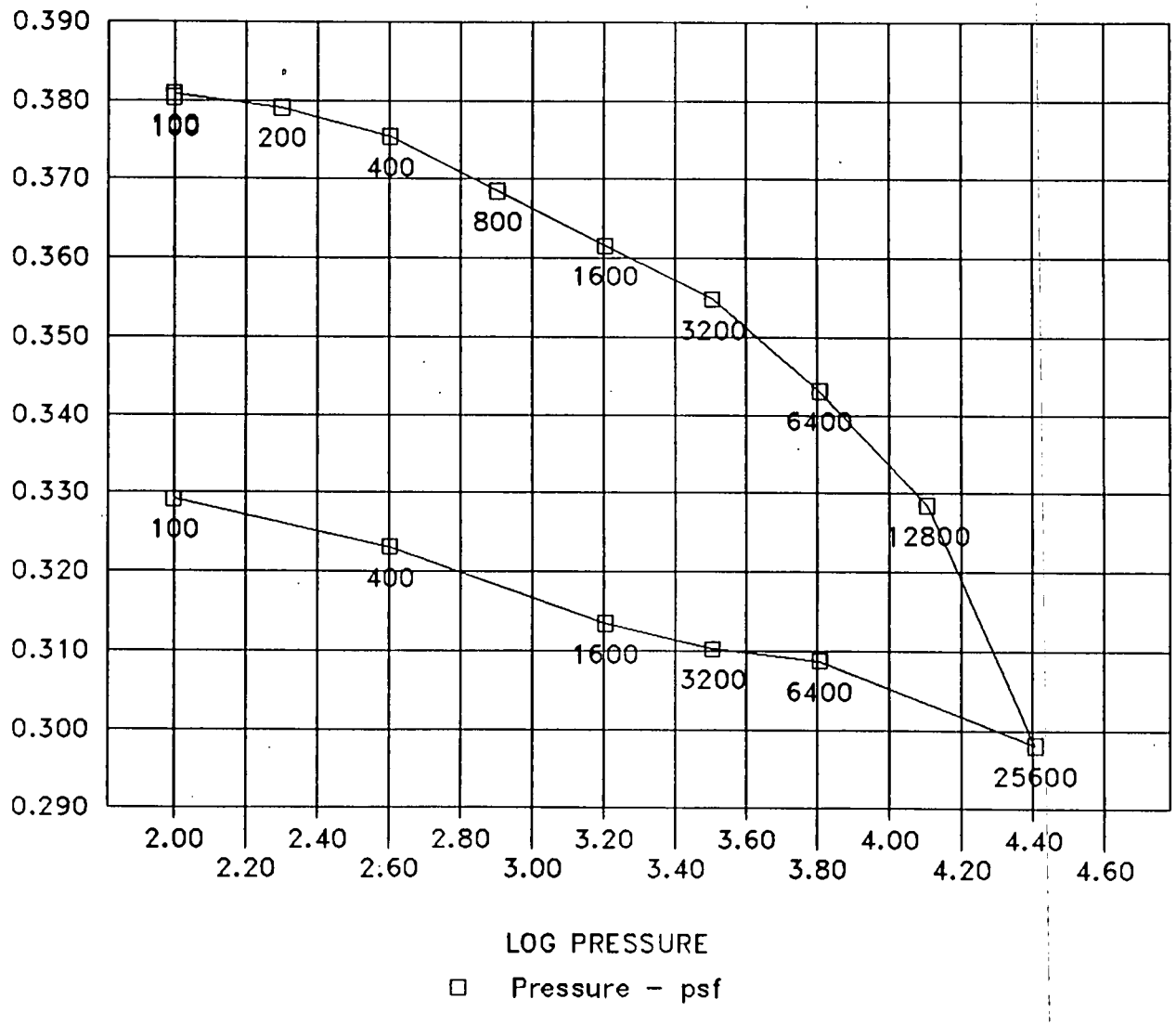
656

000722

474

CONSOLIDATION TEST DATA

G2-131,404709 ,17.5-19.5'



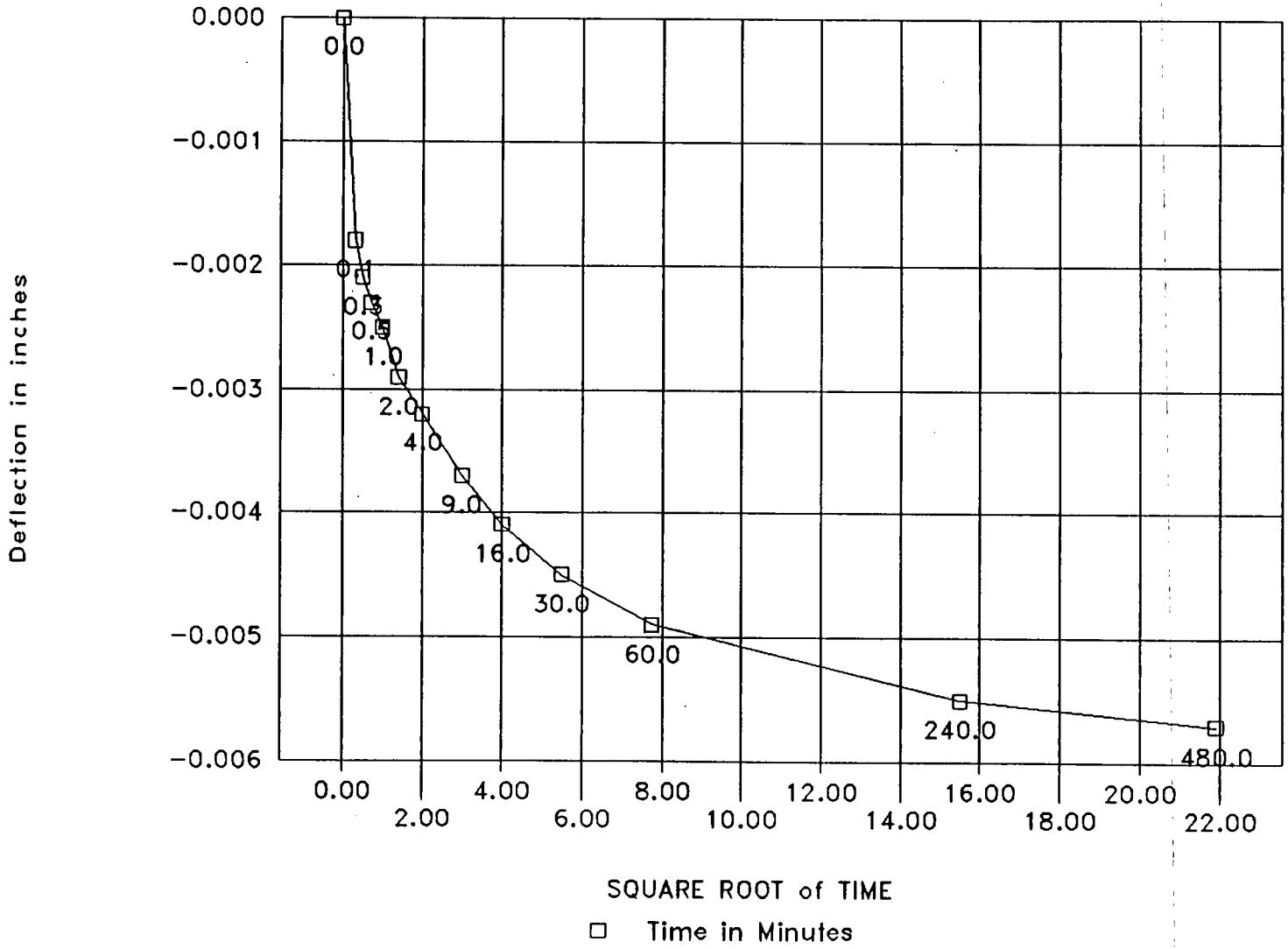
657

000723

474

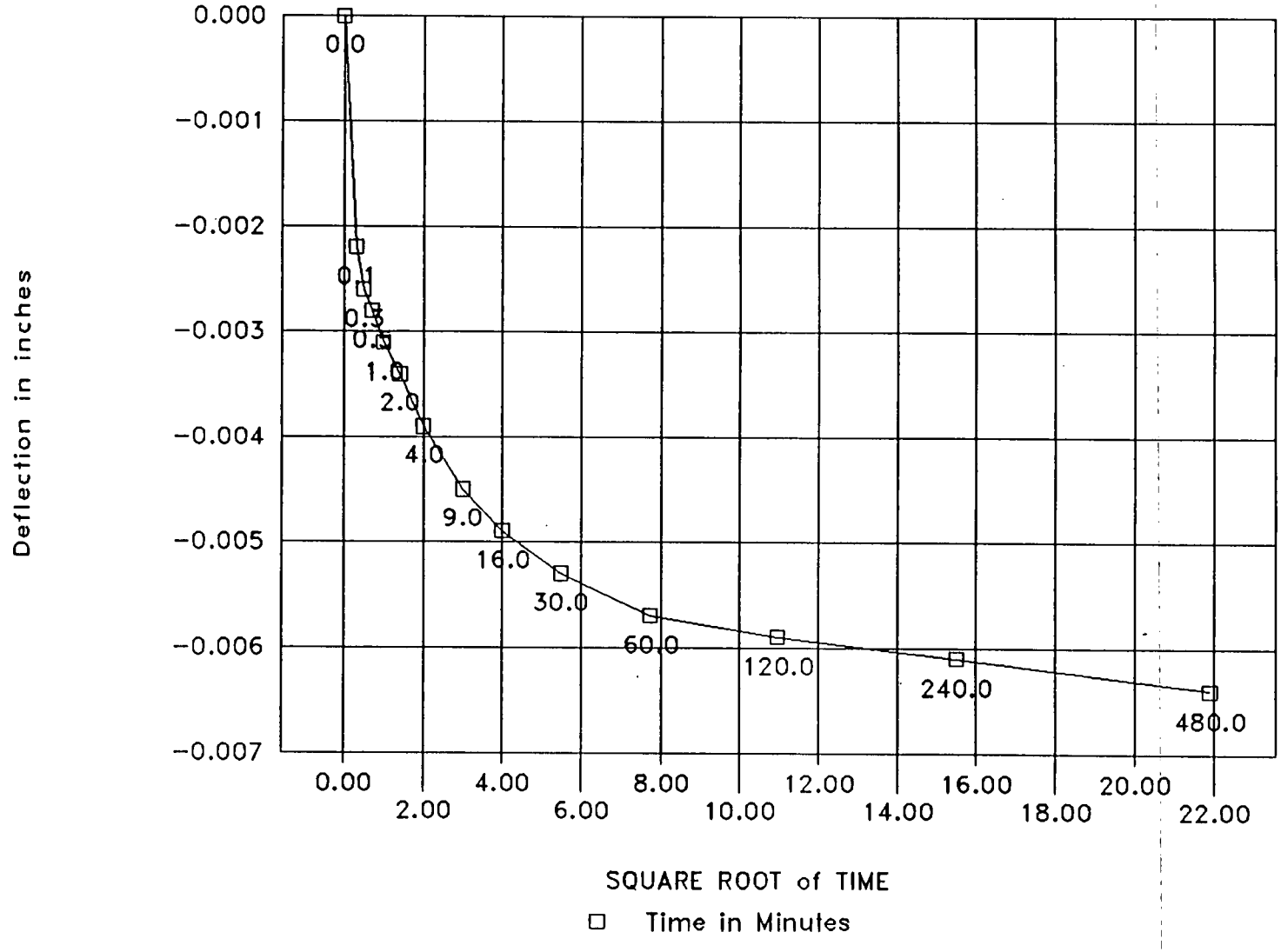
TIME READING DATA

G2-131,404709 ,17.5-19.5',1600 psf Load



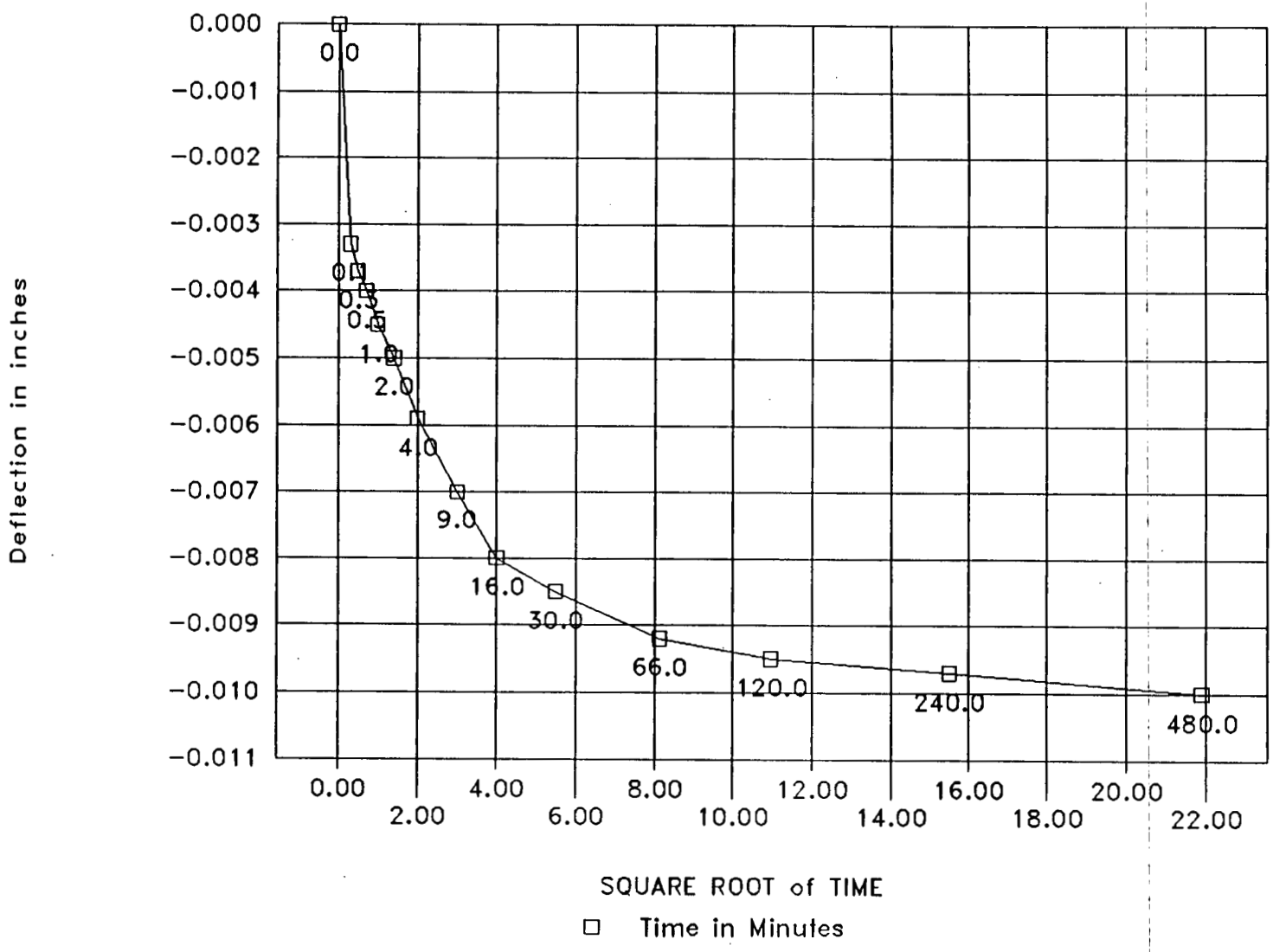
TIME READING DATA

G2-131,404709 ,17.5-19.5',3200 psf Load



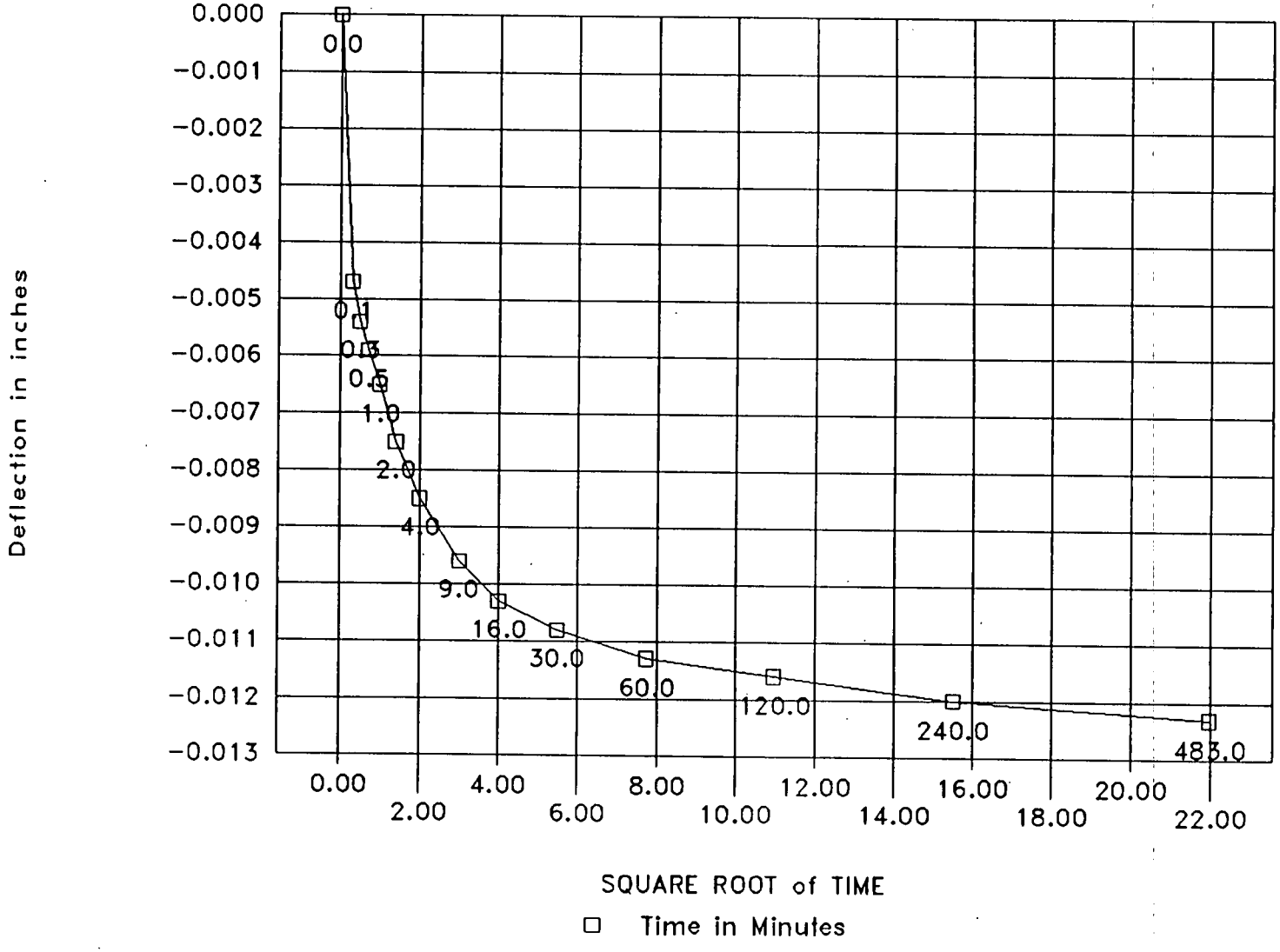
TIME READING DATA

G2-131,404709 ,17.5-19.5',6400 psf Load



TIME READING DATA

G2-131,404709 ,17.5-19.5',12800 psf Load



CONSOLIDATION TEST DATA SHEET

SACØ7ØØ9B SACC7Ø9B SACE7Ø9B SACL1Ø7D 2 3 4 PO 140

474 PAGE 1 OF 2

JOB SAIC/PARSONS JOB NO. 2059-13A

DATE SAMPLED 4-13-95 MG BORING NO. G2-131

TEST STARTED 6-1-95 BY D&R TEST FINISHED 6-10-95 BY D&R DEPTH 17.5-19.5'

SOIL TYPE FERNALD SAMPLE # 404709 (B)

CONSOLIDOMETER NO. ATT-8 INITIAL SAMPLE HEIGHT H_o = 1.00" D_o = 2.410"

MOISTURE & DENSITY DATA	BEFORE TEST	AFTER TEST
WT. OF RING(S) + SOIL	215.18	213.15
WT. OF RING(S) ONLY	46.09	
WT. OF SOIL (NET)		
WET DENSITY IN LBS/CU. FT.*		
WT. OF WET SOIL + DISH NO. 22		
INT. OF DRY SOIL + DISH		
WT. OF LOST MOISTURE		
WT. OF DISH ONLY	3.73	
WT. OF DRY SOIL		
MOISTURE AS % OF DRY WT.		
DRY DENSITY IN LBS/CU. FT.		

TEST INSTRUCTIONS

LOAD CYCLE 100 WET 200 400 800 1600 TR 3200 TR 6400 TR 12800 TR 25600

Rebound x 2

SPECIAL INSTRUCTION AND NOTES

DRY WT SOIL PAN & RING = 197.67

SATURATED TEST !! CONS

SpGR = 2.73

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOLIDATION
6-1-95	1406	0	100	.0000		
	1416	10		.0000		.0000
			WET			
	1417	1		-.0003		
	1418	2		-.0003		
	1456			-.0004		
	1603			-.0004		-.0004
			200			
	1605	1		.0003		
	1606	2		.0004		
	1716			.0009		
6-2-95	804			.0010		.0009
	805	1	400	.0023		
	806	2		.0026		
	0926			.0039		
	1106			.0042		.0036
			800			
	1108	1		.0068		
	1109	2		.0072		
	1203			.0092		
	1434			.0096		
	1535			.0097		
6-3-95	1021			.0098		.0086
			1600			
		.1		.0116		
		.25		.0119		
		.5		.0121		
	1042	1		.0123		
	1043	2		.0127		

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOLIDATION
6-3-95	1045	4	1600	.0130		
	1050	9		.0135		
	1057	16		.0139		
	1111	30		.0143		
	1141	60		.0147		
	1241	120		—		
	1441	240		.0153		
	1841	480		.0155		
6-4-95	0854			.0155		
6-5-95	0821		~~3200~~ 3200	.0157		.0136
	0822	.1		.0179		
		.25		.0183		
		.5		.0185		
	0823	1		.0188		
	0824	2		.0191		
	0826	4		.0196		
	0831	9		.0202		
	0838	16		.0206		
	0850	30		.0210		
	0922	60		.0214		
	1022	120		.0216		
	1222	240		.0218		
	1622	480		.0221		
6-6-95	0830		~~6400~~	.0220		.0185
	0831	.1	6400	.0253		
		.25		.0257		
		.5		.0260		
	0832	1		.0265		
	0833	2		.0270		

ADVANCED TERRA TESTING

662 CONTINUED ON REVERSE SIDE

CONSOLIDATION TEST DATA SHEET (CONTINUED)

G2-131 17.5-19.5'
404709

DATE	TIME	E-LAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL UNDER THIS LOAD	TOTAL CONSOL-IDATION
6-6-95	0835	4	6400	.0279		
	0840	9		.0290		
	0847	16		.0300		
	0901	30		.0305		
0937	0951 WB	60 WB	66	.0312		
	1031	120		.0315		
	1231	240		.0317		
	1631	480		.0320		
6-7-95	0818			.0320		.0270
			12800			
	0818	.1		.0367		
		.25		.0374		
		.5		.0379		
	0819	1		.0385		
	0820	2		.0395		
	0822	4		.0405		
	0827	9		.0416		
	0834	16		.0423		
	0848	30		.0428		
	0918	60		.0433		
	1018	120		.0436		
	1218	240		.0440		
1621	~~1618~~ WB	~~480~~ WB	483	.0443		~~.0375~~ .0379
6-8-95	0829			.0444		.0376
			25600			
	0851	1		.0531		
	0832	2		.0554		
	1010			.0672		
	1123			.0676		
	1235			.0682		
	1402			.0684		.0596
			6400			
	1405	1		~~.0583~~ WB	.0600	
	1406	2		.0600		
	1514			.0601		
	1627			.0601		.0519
			3200			
	1628	1		.0593		
	1629	2		.0591		
6-9-95	0821			.0582		.0508
		+	WB 1800			
	0823	1		.0569		
	0824	2		.0568		
	0946			.0553		
	1135			.0551		
	1337			.0551		.0485
			400			
	1338	1		.0529		
	1339	2		.0525		
	1340			.0485		
	1720			.0474		
6-10-95	0931			.0468		.0415
			100			
	0932	1		.0460		
	0933	2		.0458		
	~~0933~~ 1033 WB			.0434		

DATE	TIME	E-LAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL UNDER THIS LOAD	TOTAL CONSOL-IDATION
6-10-95	1133		100 cont	.0424		
	1316			.0417		
	1429			.0415		.0371

CONSOLIDATION TEST
ASTM D-2435

CLIENT SAIC/Parsons PO 140 JOB NO. 2059-13A

BORING NO.	G2-131	SAMPLED	4-13-95 MG
DEPTH	45.0-47.0'	TEST STARTED	6-1-95 DSR
SAMPLE NO.	404719	TEST FINISHED	6-10-95 DSR
SOIL DESCR.	Fernald	CELL NUMBER	ATT-9
Note: Saturated			
SAMPLE DIA.(in)	2.410	INITIAL HT.(in)	1.000

MOISTURE/DENSITY DATA		BEFORE TEST	AFTER TEST
Wt. Soil & Ring(s)	(g)	211.5	211.0
Wt. Ring(s)	(g)	46.7	46.7
Wt. Soil	(g)	164.8	164.2
Wet Density	PCF	137.6	139.8
Wt. Wet Soil & Pan	(g)	168.4	167.8
Wt. Dry Soil & Pan	(g)	145.0	145.0
Wt. Lost Moisture	(g)	23.3	22.8
Wt. of Pan Only	(g)	3.6	3.6
Wt. of Dry Soil	(g)	141.5	141.5
Moisture Content	%	16.5	16.1
Dry Density	PCF	118.1	120.4

LOAD (PSF)	CONSOL. (IN.)
100	0.0000
100	-0.0036
200	-0.0031
400	-0.0020
800	0.0026
1600	0.0096
3200	0.0194
6400	0.0317
12800	0.0485
25600	0.0663
6400	0.0580
1600	0.0455
400	0.0319
100	0.0190

	LOAD (PSF)	LOG p	CONSOL. (IN.)	DEFL. (IN.)	VOID RATIO e
	100	2.000	0.0000	0.0000	0.4375
Saturate	100	2.000	-0.0036	0.0036	0.4427
	200	2.301	-0.0031	0.0031	0.4420
	400	2.602	-0.0020	0.0020	0.4404
	800	2.903	0.0026	-0.0026	0.4338
	1600	3.204	0.0096	-0.0096	0.4237
	3200	3.505	0.0194	-0.0194	0.4096
	6400	3.806	0.0317	-0.0317	0.3920
	12800	4.107	0.0485	-0.0485	0.3678
	25600	4.408	0.0663	-0.0663	0.3422
	6400	3.806	0.0580	-0.0580	0.3542
	1600	3.204	0.0455	-0.0455	0.3721
	400	2.602	0.0319	-0.0319	0.3917
	100	2.000	0.0190	-0.0190	0.4102

% Saturation	102.5
Sp. Gr. (g/cc)	2.720
Init. Ht. Solids (cm)	1.767
Init. Ht. Voids (cm)	0.773
Init. Void Ratio	0.4375

Data entry by: NAA Date: 6-14-95
Data checked by: CJ Date: 8-12-95
FileName:SAC0719

ADVANCED TERRA TESTING, INC.

TIME READING DATA

G2-131
45.0-47.0'

1600 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.0046	0.0000
0.1	0.32	0.0063	-0.0017
0.3	0.50	0.0067	-0.0021
0.5	0.71	0.0070	-0.0024
1.0	1.00	0.0074	-0.0028
2.0	1.41	0.0079	-0.0033
4.0	2.00	0.0085	-0.0039
9.0	3.00	0.0093	-0.0047
16.0	4.00	0.0099	-0.0053
30.0	5.48	0.0106	-0.0060
60.0	7.75	0.0114	-0.0068
240.0	15.49	0.0123	-0.0077
480.0	21.91	0.0126	-0.0080

3200 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.0128	0.0000
0.1	0.32	0.0153	-0.0025
0.3	0.50	0.0158	-0.0030
0.5	0.71	0.0162	-0.0034
1.0	1.00	0.0166	-0.0038
2.0	1.41	0.0173	-0.0045
4.0	2.00	0.0182	-0.0054
9.0	3.00	0.0192	-0.0064
16.0	4.00	0.0202	-0.0074
30.0	5.48	0.0213	-0.0085
60.0	7.75	0.0224	-0.0096
120.0	10.95	0.0231	-0.0103
240.0	15.49	0.0236	-0.0108
480.0	21.91	0.0239	-0.0111

6400 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.0241	0.0000
0.1	0.32	0.0274	-0.0033
0.3	0.50	0.0278	-0.0037
0.5	0.71	0.0284	-0.0043
1.0	1.00	0.0291	-0.0050
2.0	1.41	0.0301	-0.0060
4.0	2.00	0.0311	-0.0070
9.0	3.00	0.0330	-0.0089
16.0	4.00	0.0344	-0.0103
30.0	5.48	0.0357	-0.0116
60.0	7.75	0.0370	-0.0129
120.0	10.95	0.0375	-0.0134
240.0	15.49	0.0379	-0.0138
480.0	21.91	0.0382	-0.0141

12800 psf Load

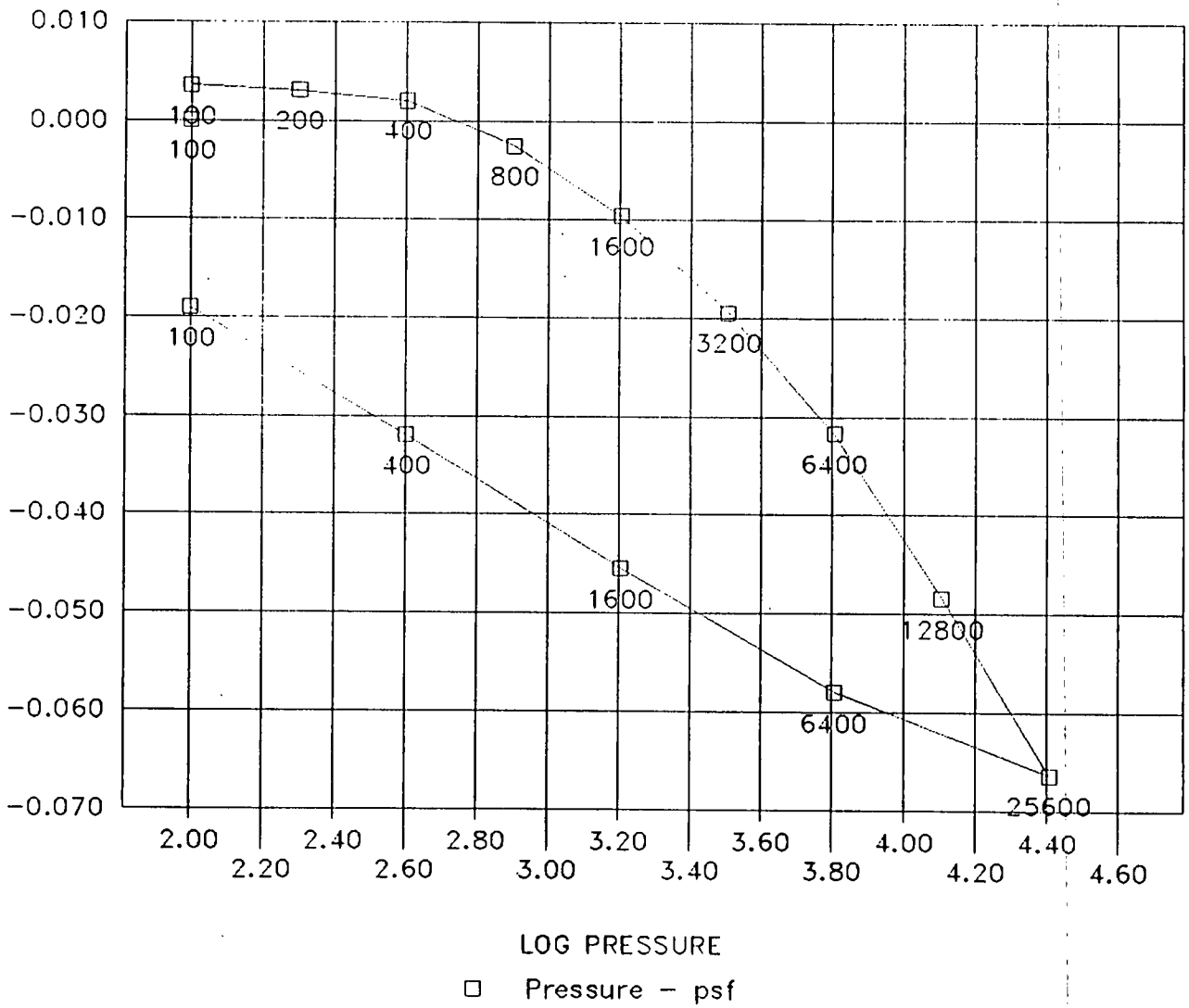
Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.0383	0.0000
0.1	0.32	0.0428	-0.0045
0.3	0.50	0.0434	-0.0051
0.5	0.71	0.0439	-0.0056
1.0	1.00	0.0449	-0.0066
2.0	1.41	0.0461	-0.0078
4.0	2.00	0.0475	-0.0092
9.0	3.00	0.0499	-0.0116
16.0	4.00	0.0517	-0.0134
30.0	5.48	0.0536	-0.0153
60.0	7.75	0.0548	-0.0165
120.0	10.95	0.0555	-0.0172
240.0	15.49	0.0561	-0.0178
480.0	21.91	0.0565	-0.0182

Data entry by: NAA Date: 6-14-95
Data checked by: DSL Date: 6-15-95
FileName:SAC0719

ADVANCED TERRA TESTING, INC.

CONSOLIDATION TEST DATA

G2-131,404719,45.0-47.0'



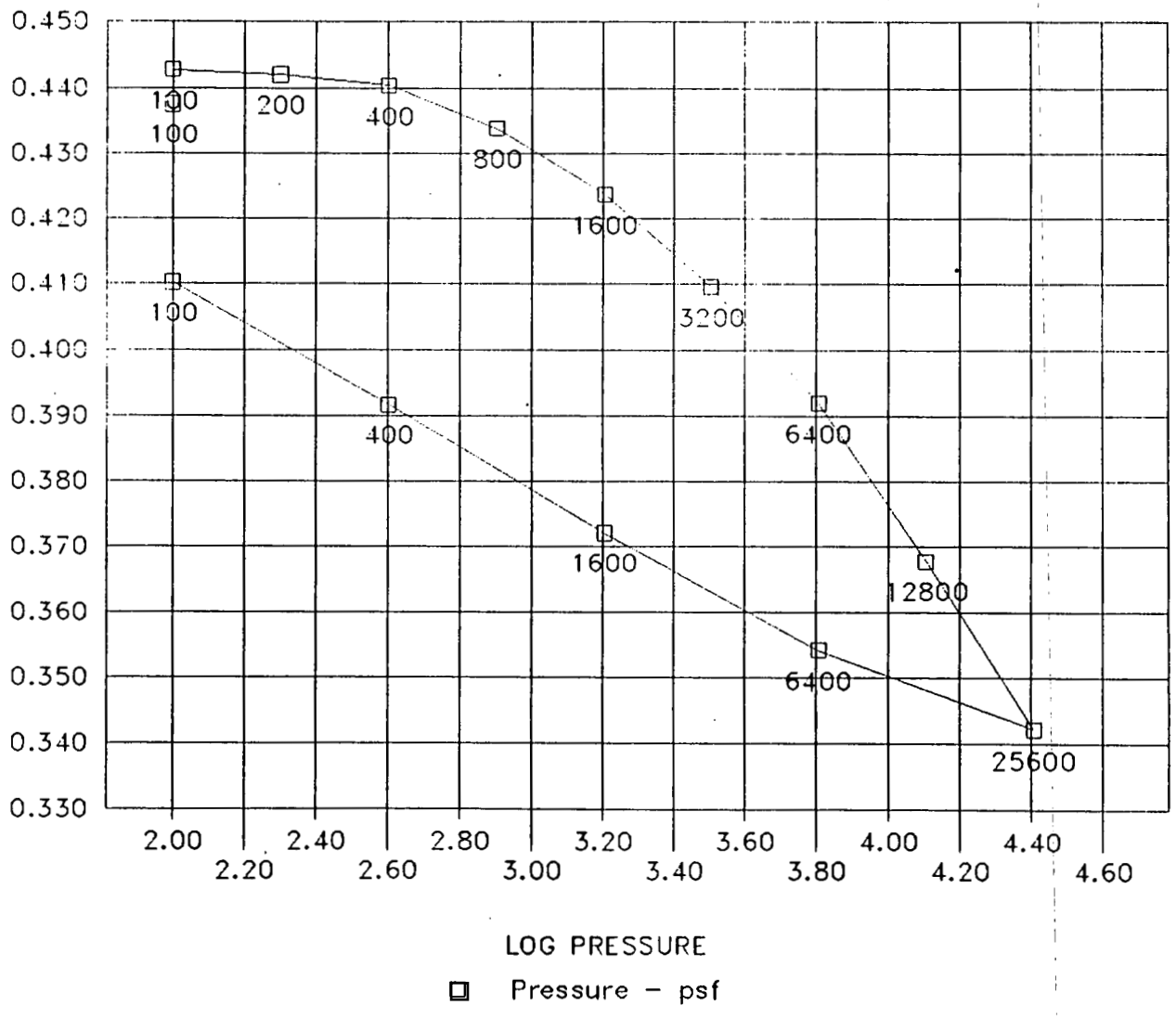
666

000732

474

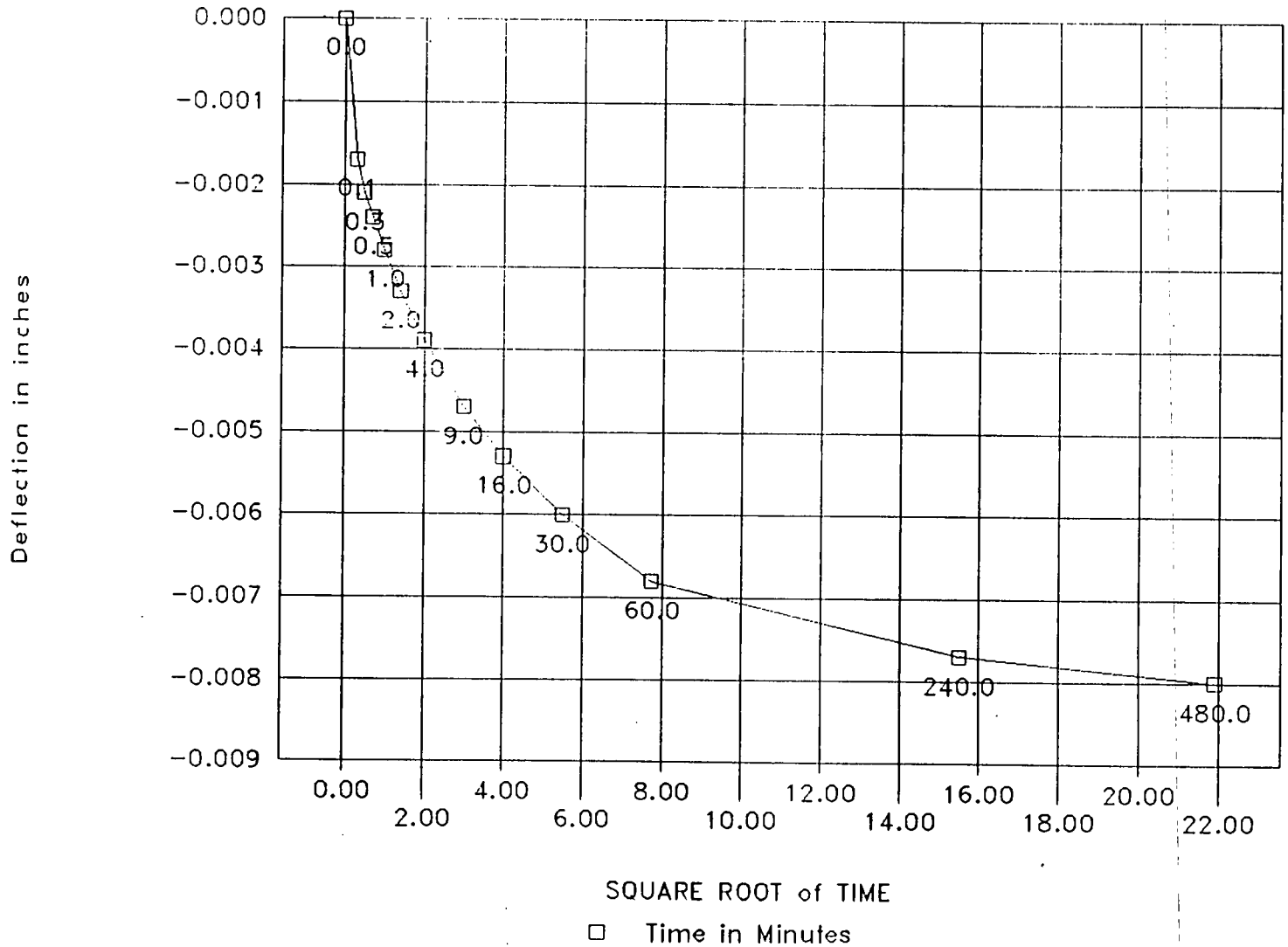
CONSOLIDATION TEST DATA

G2-131,404719,45.0-47.0'



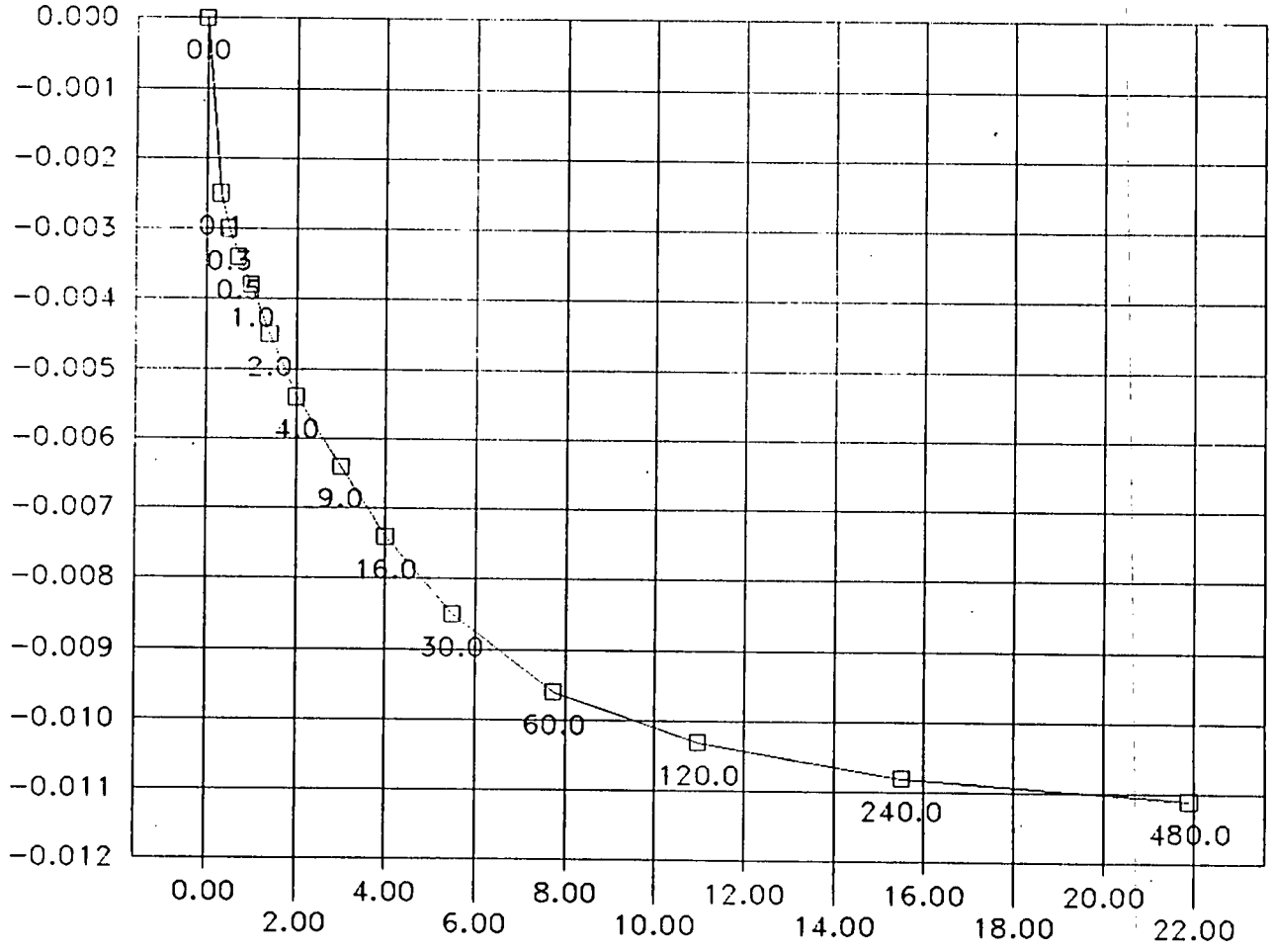
TIME READING DATA

G2-131,404719,45.0-47.0',1600 psf Load



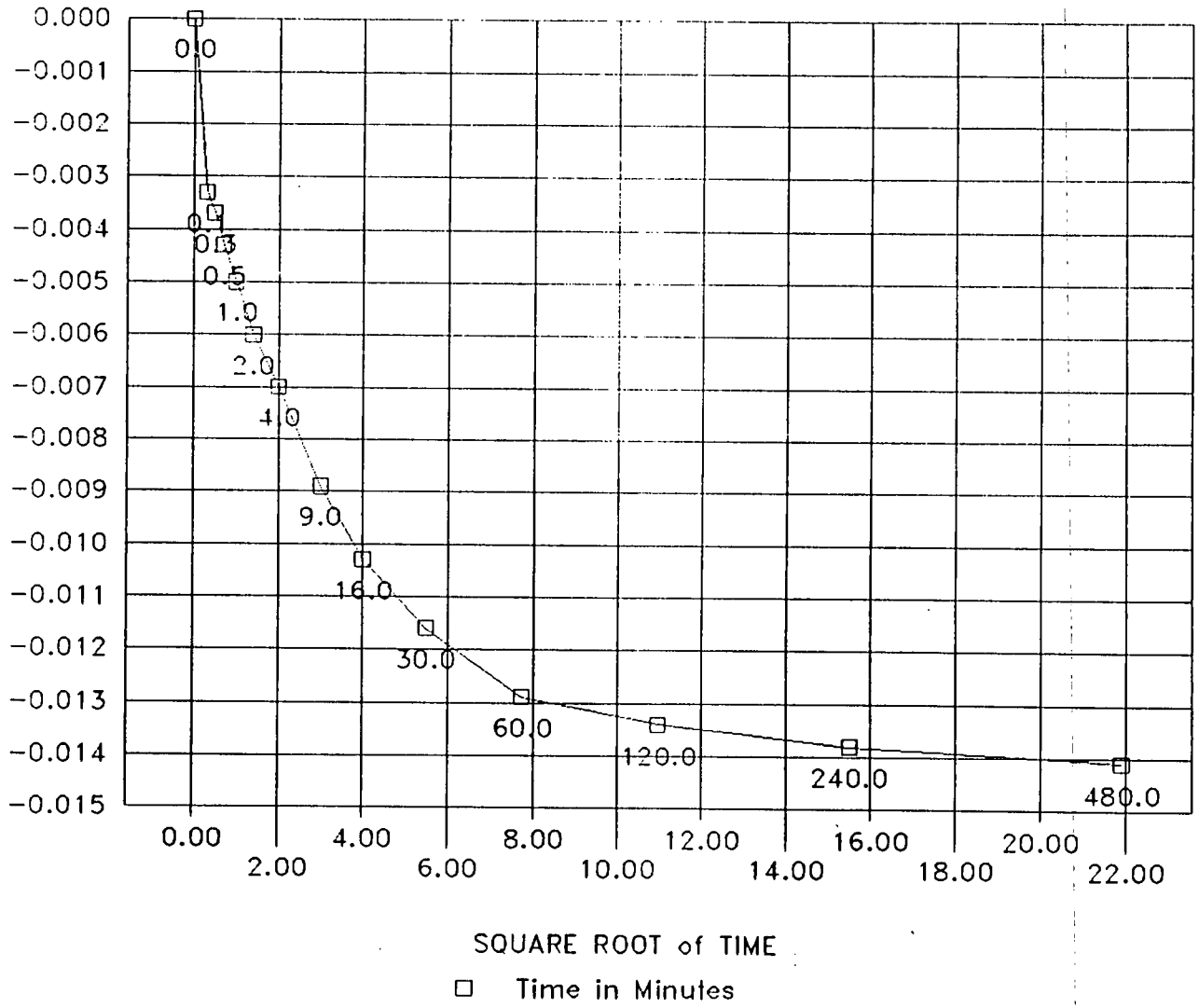
TIME READING DATA

G2-131,404719,45.0-47.0',3200 psf Load



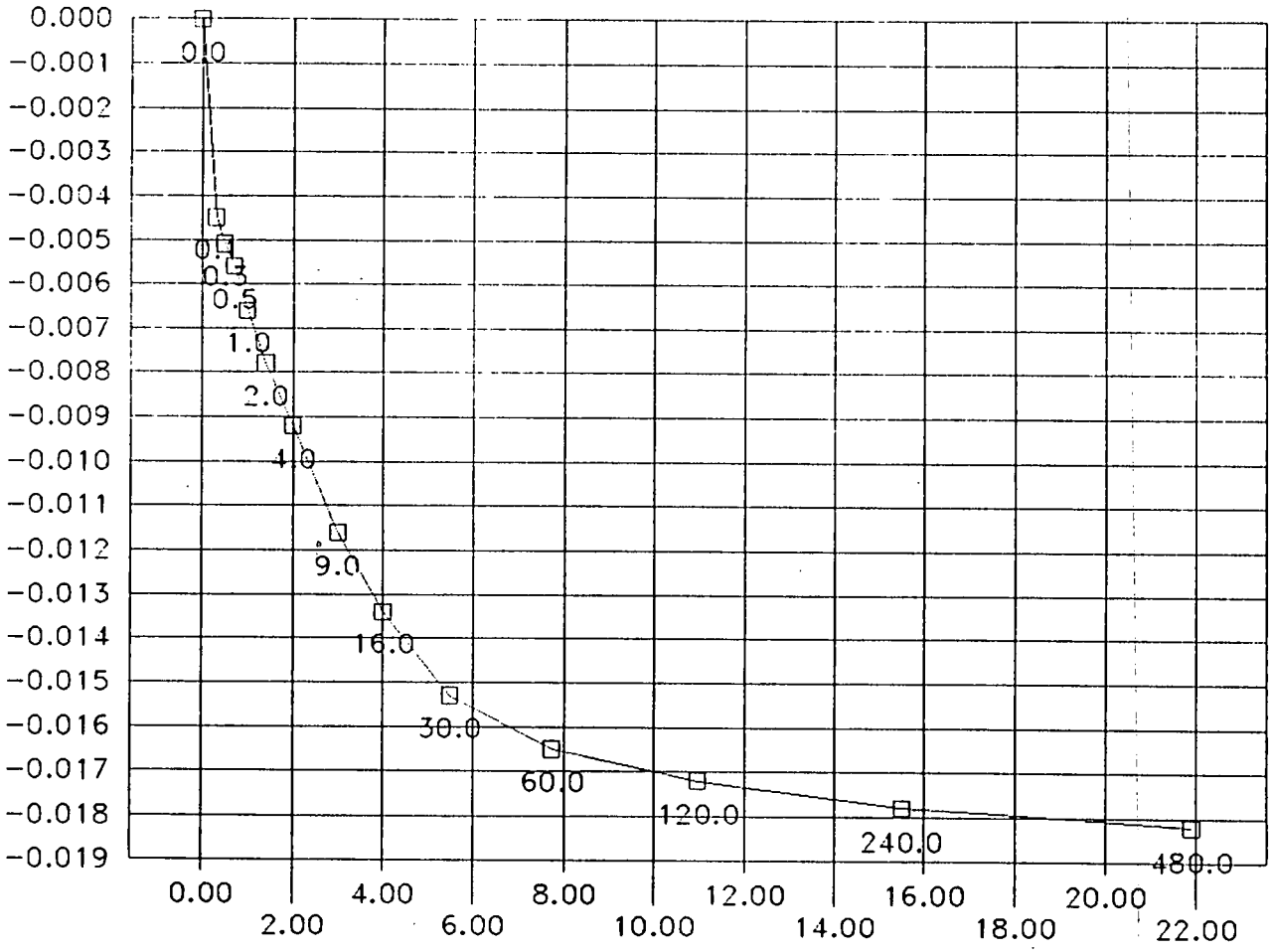
TIME READING DATA

G2-131,404719,45.0-47.0',6400 psf Load



TIME READING DATA

G2-131,404719,45.0-47.0',12800 psf Load



CONSOLIDATION TEST DATA SHEET

SACØ719 SAC1719
SACE719 2
SACE719 3
4

JOB SAIC / PARSONS PO140 JOB NO. 2059-13A
DATE SAMPLED 4-13-95 MG BORING NO. G2-131
TEST STARTED 6-1-95 BY DSR TEST FINISHED 6-10-95 BY DSR DEPTH 45.0-47.0'
SOIL TYPE FERNALD SAMPLE # 404719 (C)
CONSOLIDOMETER NO. ATT-9 INITIAL SAMPLE HEIGHT H_o = 1.00" D_o = 2.410"

MOISTURE & DENSITY DATA	BEFORE TEST	AFTER TEST
WT. OF RING(S) + SOIL	211.49	210.95
WT. OF RING(S) ONLY	46.71	
WT. OF SOIL (NET)		
WET DENSITY IN LBS/CU. FT.*		
WT. OF WET SOIL + DISH NO. 36Z		
INT. OF DRY SOIL + DISH		
WT. OF LOST MOISTURE		
WT. OF DISH ONLY	3.58	
WT. OF DRY SOIL		
MOISTURE AS % OF DRY WT.		
DRY DENSITY IN LBS/CU. FT.		

TEST INSTRUCTIONS
LOAD CYCLE 100 WET 200 400
800 1600 TR 3200 TR 6400 TR
12800 TR 25600
REBOUND x 2
SPECIAL INSTRUCTION AND NOTES
DRY WT SOIL PAN & RING = 91.74

SATURATED TEST !! CON_S

SpGR = 2.72

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOLIDATION
6-1-95	1347	0	100	.0000		
	1357	10		.0000		.0000
			WET			
	1358	1		-.0007		
	1359	2		-.0009		
	1457			-.0028		
	1464			-.0034		
	1717			-.0036		-.0036
			200			
	1718	1		-.0029		
	1719	2		-.0028		
6-2-95	804			-.0026		-.0031
	805	1	400	-.0018		
	806	2		-.0016		
	0927			-.0010		
	1109			-.0008		-.0020
			800	WB		
	1110	1		~~0.040~~	.0016	
	1111	2		.0019		
	1223			.0039		
	1434			.0043		
	1535			.0044		
6-3-95	1021			.0046		.0026
			1600			
		.1		.0063		
		.25		.0067		
		.5		.0070		
	1047	1		.0074		
	1048	2		.0079		

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOLIDATION
6-3-95	1050	4	1600	.0085		
	1055	9		.0093		
	1102	16		.0099		
	1116	30		.0106		
	1146	60		.0114		
	1246	120		~~.0~~		
	1446	240		.0123		
	1846	480		.0126		
6-4-95	0854			.0127		
6-5-95	0828			.0128		-.0096
			3200			
	0830	.1		.0153		
		.25		.0158		
		.5		.0162		
	0831	1		.0166		
	0832	2		.0173		
	0834	4		.0182		
0839	~~0835~~ WB	9		.0192		
0846	~~0842~~ WB	16		.0202		
	0900	30		.0213		
	0930	60		.0224		
	1030	120		.0231		
	1230	240		.0236		
	1630	480		.0239		
6-6-95	0835			.0241		-.0194
			6400			
	0836	.1		.0274		
		.25		.0278		
		.5		.0284		
	0837	1		.0291		

672 CONTINUED ON REVERSE SIDE

ADVANCED TERRA TESTING

SOIL TRIAXIAL TEST
G2-131 45-47'
404719

CONSOLIDATION TEST DATA SHEET (CONTINUED)

DATE	TIME	E-LAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOL-IDATION
6-6-95	0838	2	6400	.0301		
	0840	4		.0311		
	0845	9		.0330		
	0852	16		.0344		
	0906	30		.0357		
	0936	60		.0370		
	1036	120		.0375		
	1236	240		.0379		
	1636	480		.0382		
6-7-95	0823			.0383		.0317
			12800			
	0823	.1		.0428		
		.25		.0434		
		.5		.0439		
	0824	1		.0449		
	0825	2		.0461		
	0827	4		.0475		
	0832	9		.0499		
	0839	16		.0517		
	0853	30		.0536		
	0923	60		.0548		
	1023	120		.0555		
	1223	240		.0561		
	1623	480		.0565		
6-8-95	0832			.0567		.0485
			25600			
	0833	1		.0642		
	0834	2		.0657		
	1010			.0760		
	1124			.0765		
	1237			.0768		.0663
	REBOUND		6400			
	1235	1		.0716		
	1236	2		.0709		
	1408			.0680		
	1514			.0679		
	1624			.0678		.0580
			1600			
	1626	1		.0641		
	1627	2		.0633		
6-9-95	0825			.0536		
	0946			.0536		.0455
			400			
	0947	1		.0514		
	0948	2		.0509		
	1135			.0420		
	1337			.0399		
	1440			.0395		
	1620			.0390		
	1721			.0389		.0319
			100			
	1722	1		.0377		
	1723	2		.0375		
6-10-95	0930			.0254		
	1031			.0253		.0190

DATE	TIME	E-LAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOL-IDATION

TIME READING DATA

G2-133
7.5-9.5'

1600 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.0121	0.0000
0.1	0.32	0.0137	-0.0016
0.3	0.50	0.0140	-0.0019
0.5	0.71	0.0143	-0.0022
1.0	1.00	0.0147	-0.0026
2.0	1.41	0.0150	-0.0029
4.0	2.00	0.0155	-0.0034
9.0	3.00	0.0161	-0.0040
16.0	4.00	0.0165	-0.0044
32.0	5.66	0.0170	-0.0049
60.0	7.75	0.0173	-0.0052
120.0	10.95	0.0176	-0.0055
240.0	15.49	0.0179	-0.0058
480.0	21.91	0.0182	-0.0061

3200 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.0184	0.0000
0.1	0.32	0.0208	-0.0024
0.3	0.50	0.0212	-0.0028
0.5	0.71	0.0216	-0.0032
1.0	1.00	0.0221	-0.0037
2.0	1.41	0.0227	-0.0043
4.0	2.00	0.0234	-0.0050
9.0	3.00	0.0242	-0.0058
16.0	4.00	0.0246	-0.0062
30.0	5.48	0.0252	-0.0068
60.0	7.75	0.0256	-0.0072
120.0	10.95	0.0259	-0.0075
240.0	15.49	0.0263	-0.0079
480.0	21.91	0.0266	-0.0082

6400 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.0268	0.0000
0.1	0.32	0.0290	-0.0022
0.3	0.50	0.0294	-0.0026
0.5	0.71	0.0298	-0.0030
1.0	1.00	0.0303	-0.0035
2.0	1.41	0.0311	-0.0043
4.0	2.00	0.0318	-0.0050
9.0	3.00	0.0328	-0.0060
16.0	4.00	0.0334	-0.0066
30.0	5.48	0.0338	-0.0070
60.0	7.75	0.0342	-0.0074
120.0	10.95	0.0346	-0.0078
240.0	15.49	0.0350	-0.0082
488.0	22.09	0.0353	-0.0085

12800 psf Load

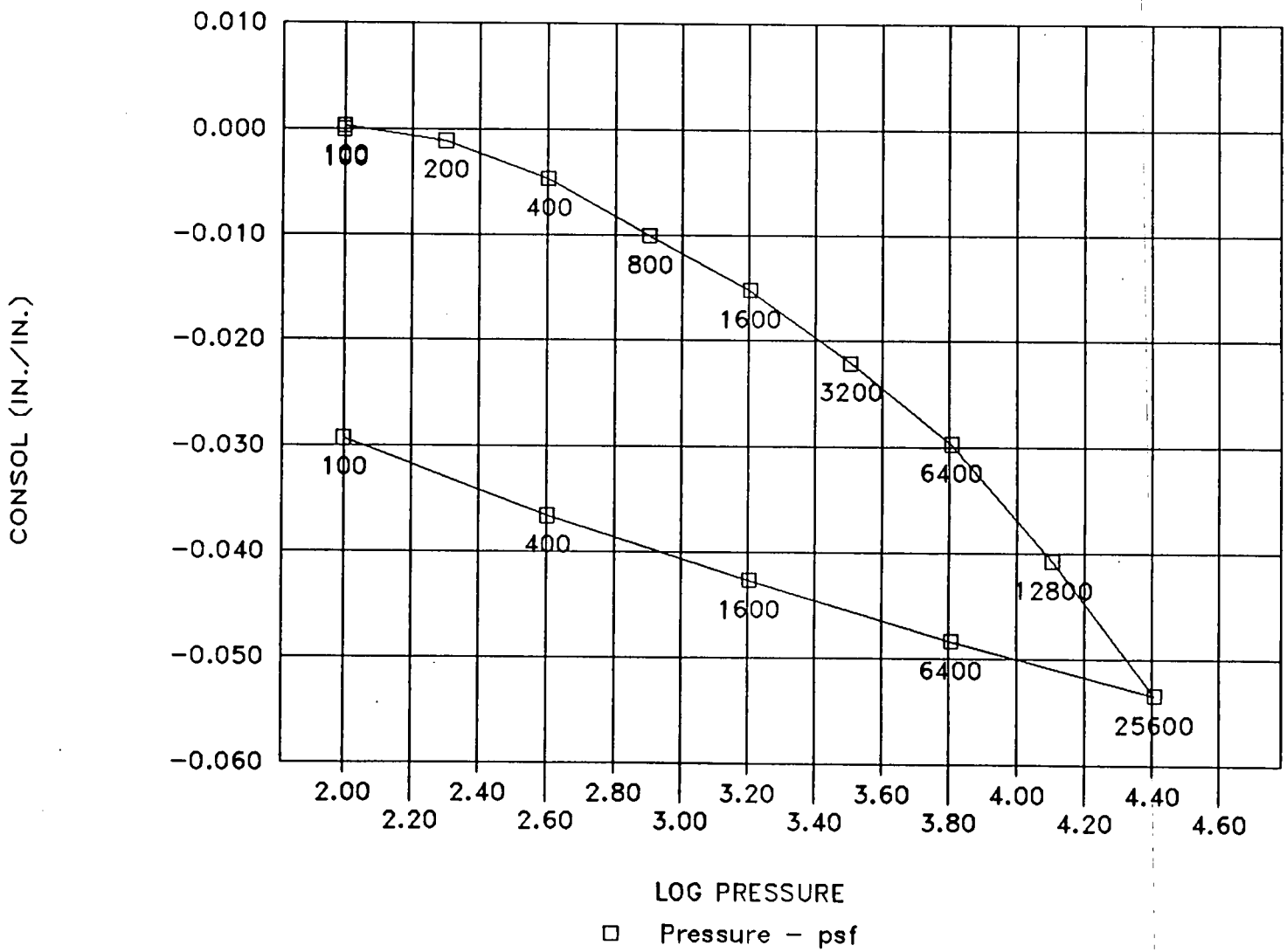
Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.0355	0.0000
0.1	0.32	0.0392	-0.0037
0.3	0.50	0.0400	-0.0045
0.5	0.71	0.0409	-0.0054
1.0	1.00	0.0417	-0.0062
2.0	1.41	0.0429	-0.0074
4.0	2.00	0.0441	-0.0086
9.0	3.00	0.0455	-0.0100
16.0	4.00	0.0461	-0.0106
30.0	5.48	0.0466	-0.0111
60.0	7.75	0.0470	-0.0115
120.0	10.95	0.0473	-0.0118
240.0	15.49	0.0478	-0.0123
480.0	21.91	0.0482	-0.0127

Data entry by: NAA Date: 6-19-95
Data checked by: WEB Date: 6-21-95
FileName: SAC05055

ADVANCED TERRA TESTING, INC.

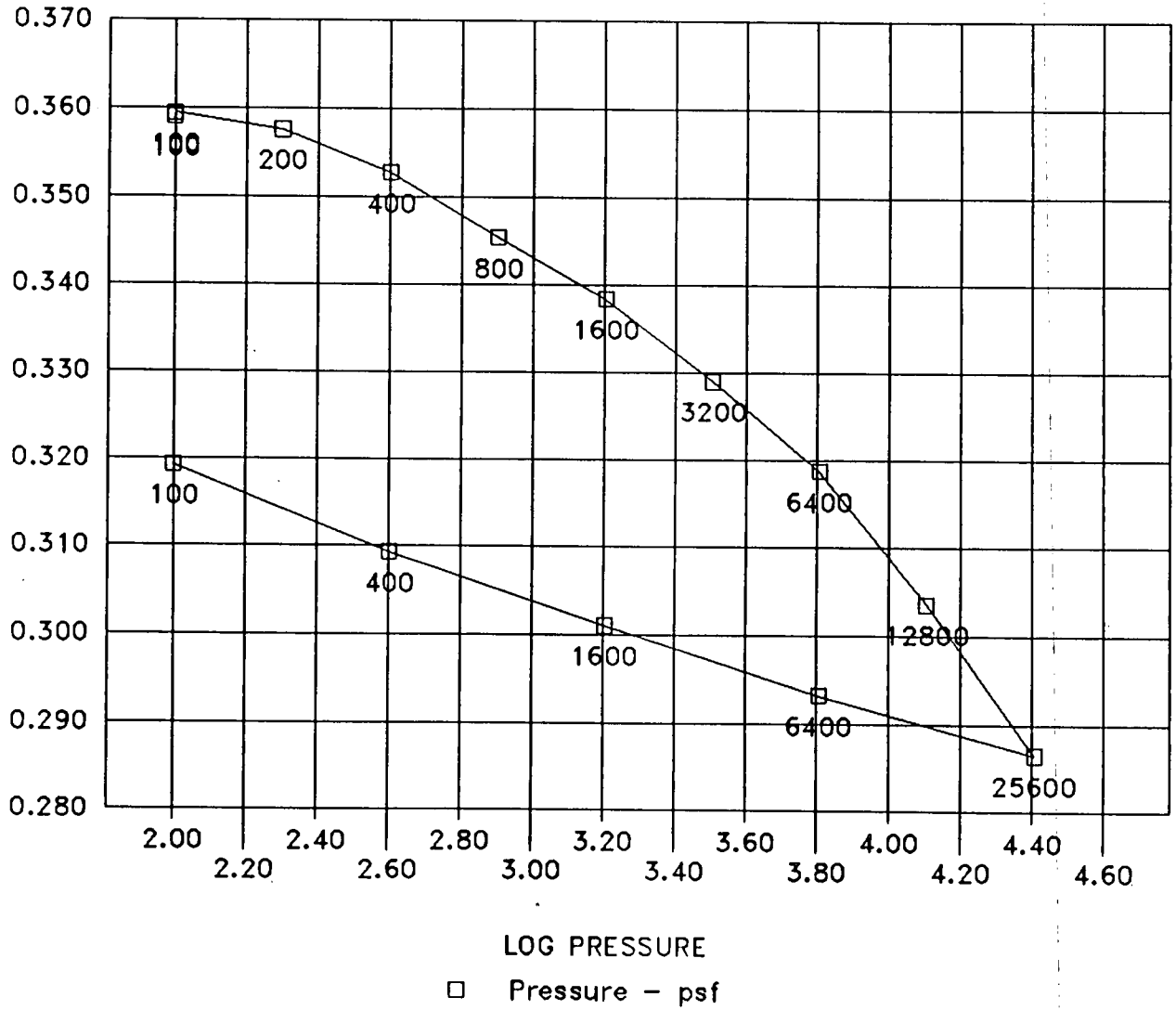
CONSOLIDATION TEST DATA

G2-133,405055,7.5-9.5'



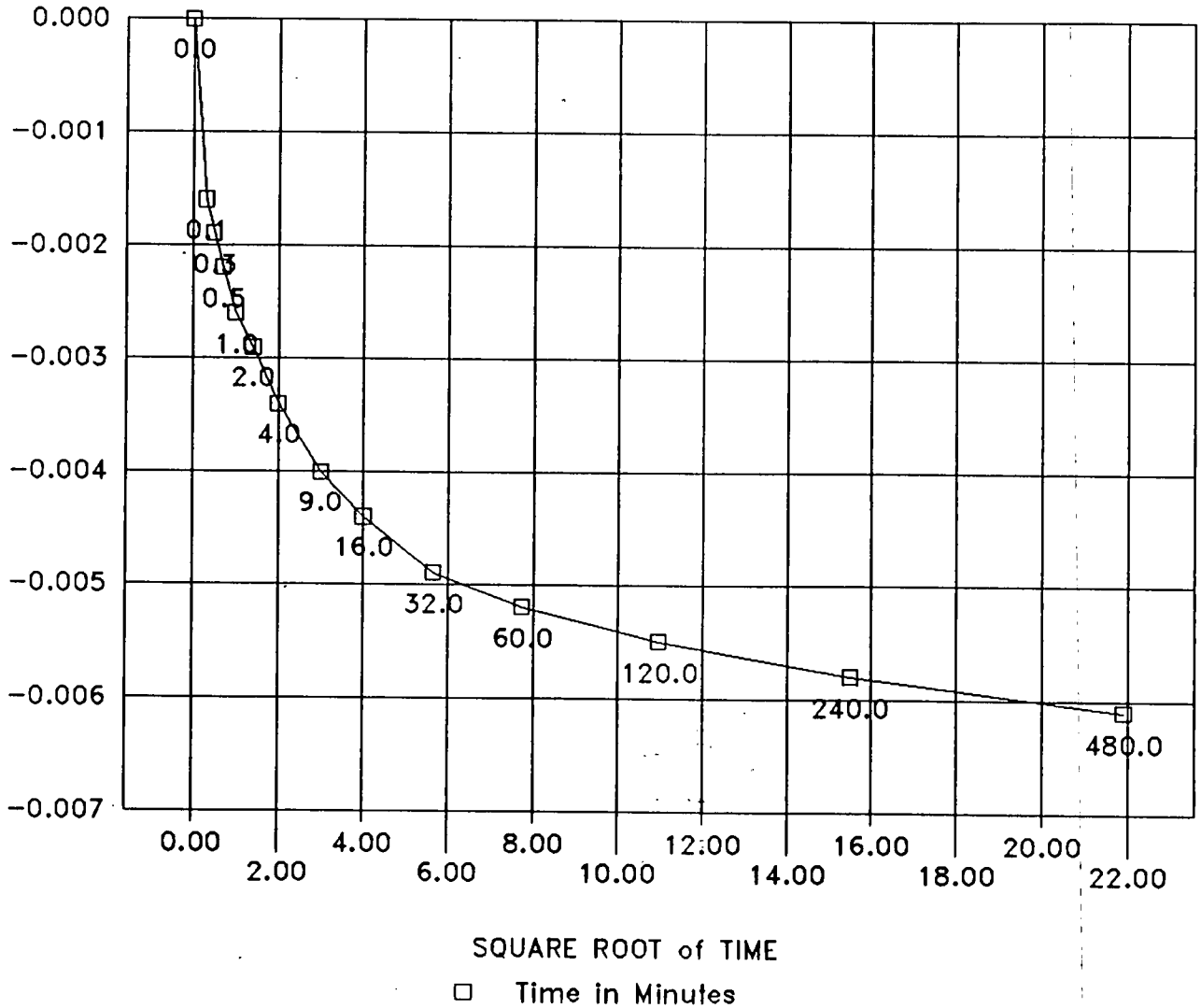
CONSOLIDATION TEST DATA

G2-133,405055,7.5-9.5'



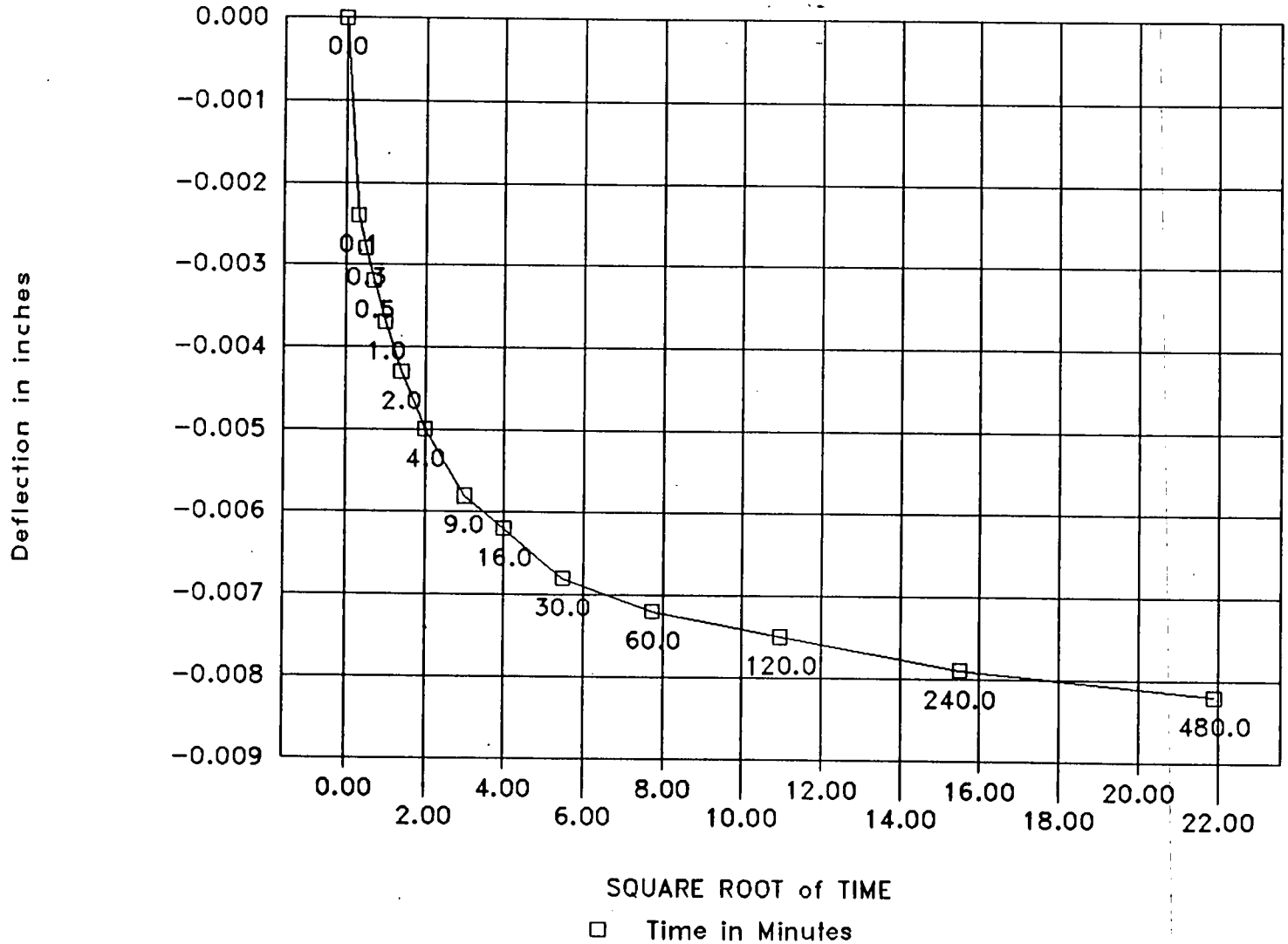
TIME READING DATA

G2-133,405055,7.5-9.5',1600 psf Load



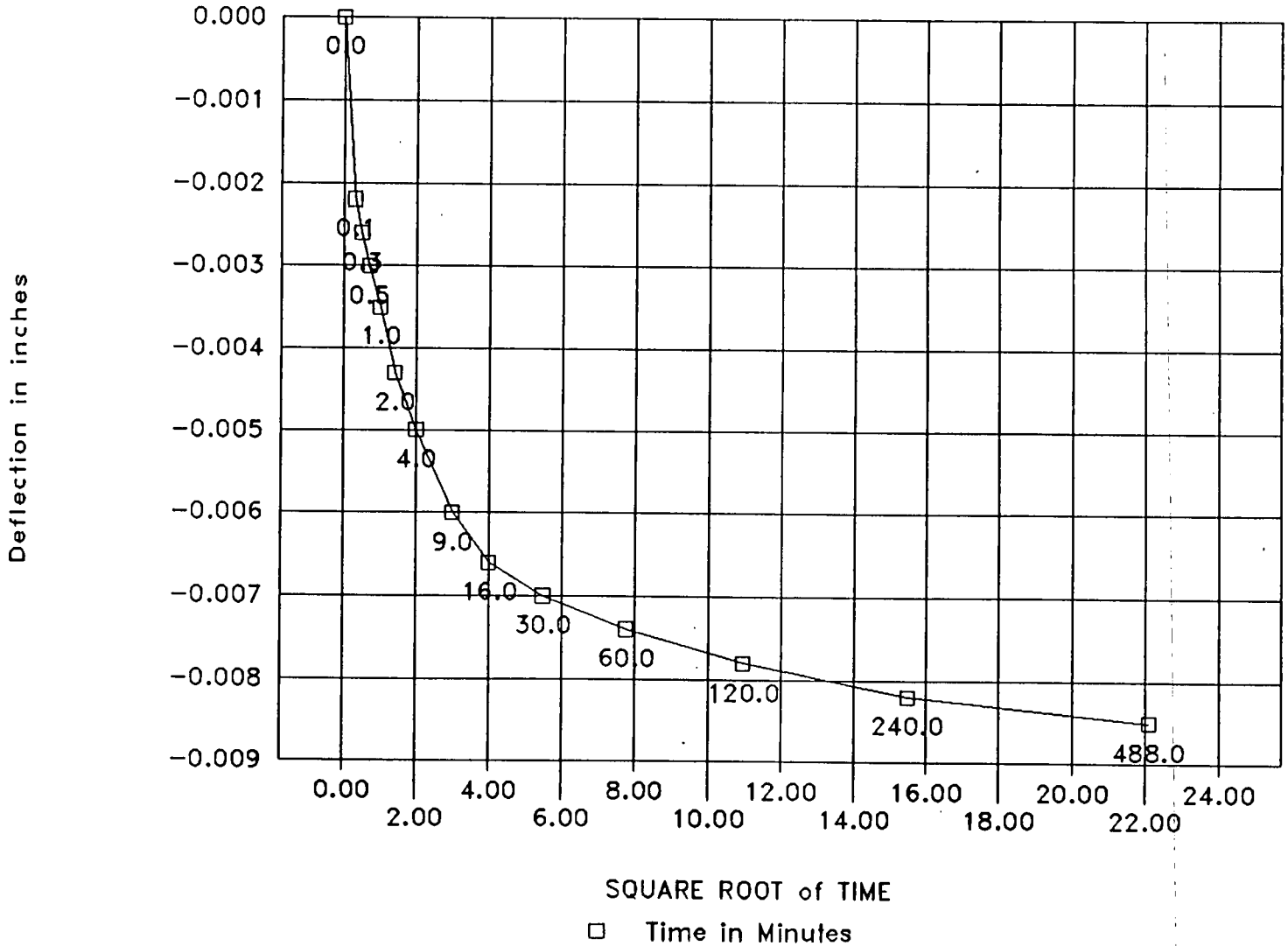
TIME READING DATA

G2-133,405055,7.5-9.5',3200 psf Load



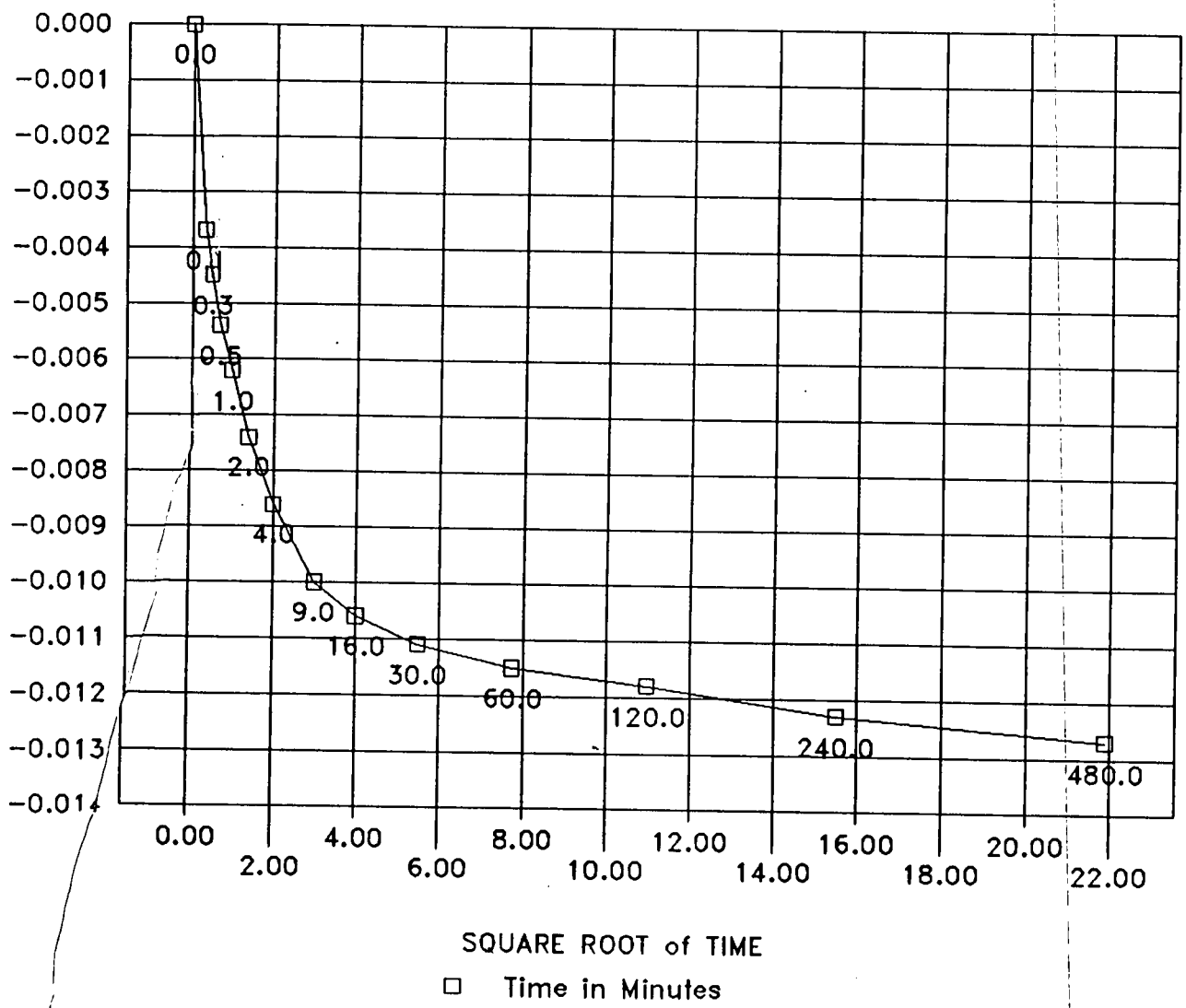
TIME READING DATA

G2-133,405055,7.5-9.5',6400 psf Load



TIME READING DATA

G2-133,405055,7.5-9.5',12800 psf Load



681

000746

474

474

CONSOLIDATION TEST DATA SHEET

SAC05055 SAC15055 2
SAC05055 3
SAC05055 4

JOB SAIC/PARSONS PO140 JOB NO. 2059-13D

DATE SAMPLED 4-21-95 mm BORING NO. 62-133

TEST STARTED 6-2-95 BY WEB TEST FINISHED 6-12-95 BY DSR DEPTH 7.5-9.5' SAMPLE 4050

SOIL TYPE FERNALD

CONSOLIDOMETER NO. ATT-7 INITIAL SAMPLE HEIGHT 1.00" D_o = 2.41"

MOISTURE & DENSITY DATA	BEFORE TEST	AFTER TEST
WT. OF RING(S) + SOIL	219.85 g	218.14
WT. OF RING(S) ONLY	46.60 g	46.60 g
WT. OF SOIL (NET)		
WET DENSITY IN LBS/CU. FT.*		
WT. OF WET SOIL + DISH NO. F4		
INT. OF DRY SOIL + DISH		
WT. OF LOST MOISTURE		
WT. OF DISH ONLY	8.32	
WT. OF DRY SOIL		
MOISTURE AS % OF DRY WT.		
DRY DENSITY IN LBS/CU. FT.		

TEST INSTRUCTIONS

LOAD CYCLE 100 WET 200
400 800 1600TR 3200
6400TR 12800TR 25600
Rebound x 2

SPECIAL INSTRUCTION AND NOTES

CON_S SATURATED!!
Dry WT Soil + Ring + Pan = 207.2

SpGR = 2.77

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOLIDATION
	1051	0	100	.0000		
	1101	10		0000		.0000
			WET			
	1104	1		-.0003		
	1105	2		-.0003		
	1223			-.0004		
	1434			-.0004		
	1535			-.0003		-.0003
			200			
	1536	1		.0004		
	1537	2		.0005		
	1645			.0013		
6-3-95	1020			.0015		.0011
			400			
	1035	1		.0034		
	1036	2		.0037		
	1045			.0045		
	1327			.0055		
	1441			.0056		
	1650			.0057		.0047
			800			
	1651	1		.0087		
	1652	2		.0090		
	1841			.0113		
6-4-95	0853			.0116		
6-5-95	0817			.0121		.0101
	0819	.1	1600	.0137		
		.25		.0140		
		.5		.0143		
	0820	1		.0147		

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOLIDATION
6-5-95	0821	2		.0150		
	0823	4		.0155		
	0828	9		.0161		
	0835	16		.0165		
0851	~~0851~~	~~30~~ 32		.0170		
0919	~~0921~~	60		.0173		
1019	~~1021~~	120		.0176		
1219	~~1221~~	240		.0179		
1619	~~1621~~	480		.0182		
6-6-95	0826			.0184		.0152
			3200			
	0828	.1		.0208		
		.25		.0212		
		.5		.0216		
	0829	1		.0221		
	0830	2		.0227		
	0832	4		.0234		
	0837	9		.0242		
	0842	16		.0246		
	0858	30		.0252		
	0928	60		.0256		
	1028	120		.0259		
	1228	240		.0263		
	1628	480		.0266		
6-7-95	0813			.0268		.0221
			6400			
	0813	.1		.0290		
		.25		.0294		
		.5		.0298		
	0814	1		.0303		

CONTINUED ON REVERSE SIDE

ADVANCED TERRA TESTING

CONSOLIDATION TEST DATA SHEET (CONTINUED)

G2-133 7.5-9.5'
405055

DATE	TIME	E-LAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOL-IDATION
6-7-95	0815	2		.0311		
	0817	4		.0318		
	0822	9		.0328		
	0829	16		.0334		
	0843	30		.0338		
	0913	60		.0342		
	1013	120		.0346		
	1213	240		.0350		
1621 WB	~~1613~~ WB	~~480~~ WB	488	.0353		
6-8-95	0826			.0355		.0297
			12800			
		.1		.0392		
		.25		.0400		
	WB	.5		.0409		
	0827	1		.0417		
	0828	2		.0429		
	0830	4		.0441		
	0835	9		.0455		
	0842	16		.0461		
	0856	30		.0466		
	0926	60		.0470		
	1026	120		.0473		
	1226	240		.0478		
	1626	480		.0482		
6-9-95	0818			.0485		.0408
			25600			
	0819	1		.0559		
	0820	2		.0573		
	0945			.0623		
	1134			.0630		
	1339			.0634		.0534
		Rebound				
			6400			
	1340	1		.0586		
	1341	2		.0583		
	1441			.0578		
	1618			.0578		.0484
			1600			
	1619	1		.0546		
	1620	2		.0540		
	1719			.0516		
6-10-95	0933			.0511		.0427
			400			
	0934			.0490		
	0935			.0486		
	1033			.0444		
	1133			.0439		
	1316			.0437		.0366
			100			
	1317	1		.0427		
	1318	2		.0424		
	1429			.0383		
	1530			.0375		
6-11-95	1110			.0359		
6-12-95	0816			.0358		.0293

DATE	TIME	E-LAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOL-IDATION

CONSOLIDATION TEST

ASTM D 2435

Remolded to 95% MDD

CONSOLIDATION TEST
ASTM D-2435

CLIENT SAIC/Parsons PO 140 JOB NO. 2059-13A

BORING NO.	G2-124	SAMPLED	4-12-95 FP, MM
DEPTH	10.0-12.0'	TEST STARTED	6-16-95 WEB
SAMPLE NO.	405004	TEST FINISHED	6-26-95 DPM
SOIL DESCR.	Fernald	CELL NUMBER	ATT-17
Note: Remolded to 95% MDD			
SAMPLE DIA.(in)	2.410	INITIAL HT.(in)	1.000

MOISTURE/DENSITY DATA	BEFORE TEST	AFTER TEST
Wt. Soil & Ring(s) (g)	209.1	212.4
Wt. Ring(s) (g)	46.2	46.2
Wt. Soil (g)	162.9	166.2
Wet Density PCF	136.1	135.9
Wt. Wet Soil & Pan (g)	166.6	169.9
Wt. Dry Soil & Pan (g)	143.9	143.9
Wt. Lost Moisture (g)	22.7	26.0
Wt. of Pan Only (g)	3.7	3.7
Wt. of Dry Soil (g)	140.2	140.2
Moisture Content %	16.2	18.5
Dry Density PCF	117.1	114.6

LOAD (PSF)	CONSOL. (IN.)
100	0.0000
100	-0.0404
200	-0.0401
400	-0.0377
800	-0.0309
1600	-0.0196
3200	-0.0078
6400	0.0039
12800	0.0200
25600	0.0422
6400	0.0238
1600	0.0093
400	-0.0073
100	-0.0214

	LOAD (PSF)	LOG p	CONSOL. (IN.)	DEFL. (IN.)	VOID RATIO e
	100	2.000	0.0000	0.0000	0.4501
Saturate	100	2.000	-0.0404	0.0404	0.5087
	200	2.301	-0.0401	0.0401	0.5083
	400	2.602	-0.0377	0.0377	0.5048
	800	2.903	-0.0309	0.0309	0.4950
	1600	3.204	-0.0196	0.0196	0.4786
	3200	3.505	-0.0078	0.0078	0.4615
	6400	3.806	0.0039	-0.0039	0.4445
	12800	4.107	0.0200	-0.0200	0.4211
	25600	4.408	0.0422	-0.0422	0.3889
	6400	3.806	0.0238	-0.0238	0.4156
	1600	3.204	0.0093	-0.0093	0.4367
	400	2.602	-0.0073	0.0073	0.4607
	100	2.000	-0.0214	0.0214	0.4812

% Saturation	97.9
Sp. Gr. (g/cc)	2.720
Init. Ht. Solids (cm)	1.752
Init. Ht. Voids (cm)	0.788
Init. Void Ratio	0.4501

Data entry by: NAA Date: 6-28-95
Data checked by: CJ Date: 8-12-95
FileName:SAC04R95

ADVANCED TERRA TESTING, INC.

TIME READING DATA

G2-124
10.0-12.0'

1600 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.0147	0.0000
0.1	0.32	0.0181	-0.0034
0.3	0.50	0.0190	-0.0043
0.5	0.71	0.0197	-0.0050
1.0	1.00	0.0209	-0.0062
2.0	1.41	0.0213	-0.0066
4.0	2.00	0.0222	-0.0075
9.0	3.00	0.0233	-0.0086
16.0	4.00	0.0241	-0.0094
30.0	5.48	0.0249	-0.0102
60.0	7.75	0.0256	-0.0109
125.0	11.18	0.0262	-0.0115
240.0	15.49	0.0267	-0.0120
480.0	21.91	0.0271	-0.0124

3200 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.0273	0.0000
0.1	0.32	0.0318	-0.0045
0.3	0.50	0.0328	-0.0055
0.5	0.71	0.0337	-0.0064
1.0	1.00	0.0346	-0.0073
2.0	1.41	0.0356	-0.0083
4.0	2.00	0.0362	-0.0089
9.0	3.00	0.0373	-0.0100
16.0	4.00	0.0380	-0.0107
30.0	5.48	0.0387	-0.0114
60.0	7.75	0.0393	-0.0120
120.0	10.95	0.0398	-0.0125
240.0	15.49	0.0403	-0.0130
480.0	21.91	0.0406	-0.0133

6400 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.0408	0.0000
0.1	0.32	0.0467	-0.0059
0.3	0.50	0.0477	-0.0069
0.5	0.71	0.0486	-0.0078
1.0	1.00	0.0493	-0.0085
2.0	1.41	0.0500	-0.0092
4.0	2.00	0.0510	-0.0102
9.0	3.00	0.0515	-0.0107
16.0	4.00	0.0521	-0.0113
30.0	5.48	0.0526	-0.0118
60.0	7.75	0.0530	-0.0122
120.0	10.95	0.0534	-0.0126
240.0	15.49	0.0538	-0.0130
480.0	21.91	0.0541	-0.0133

12800 psf Load

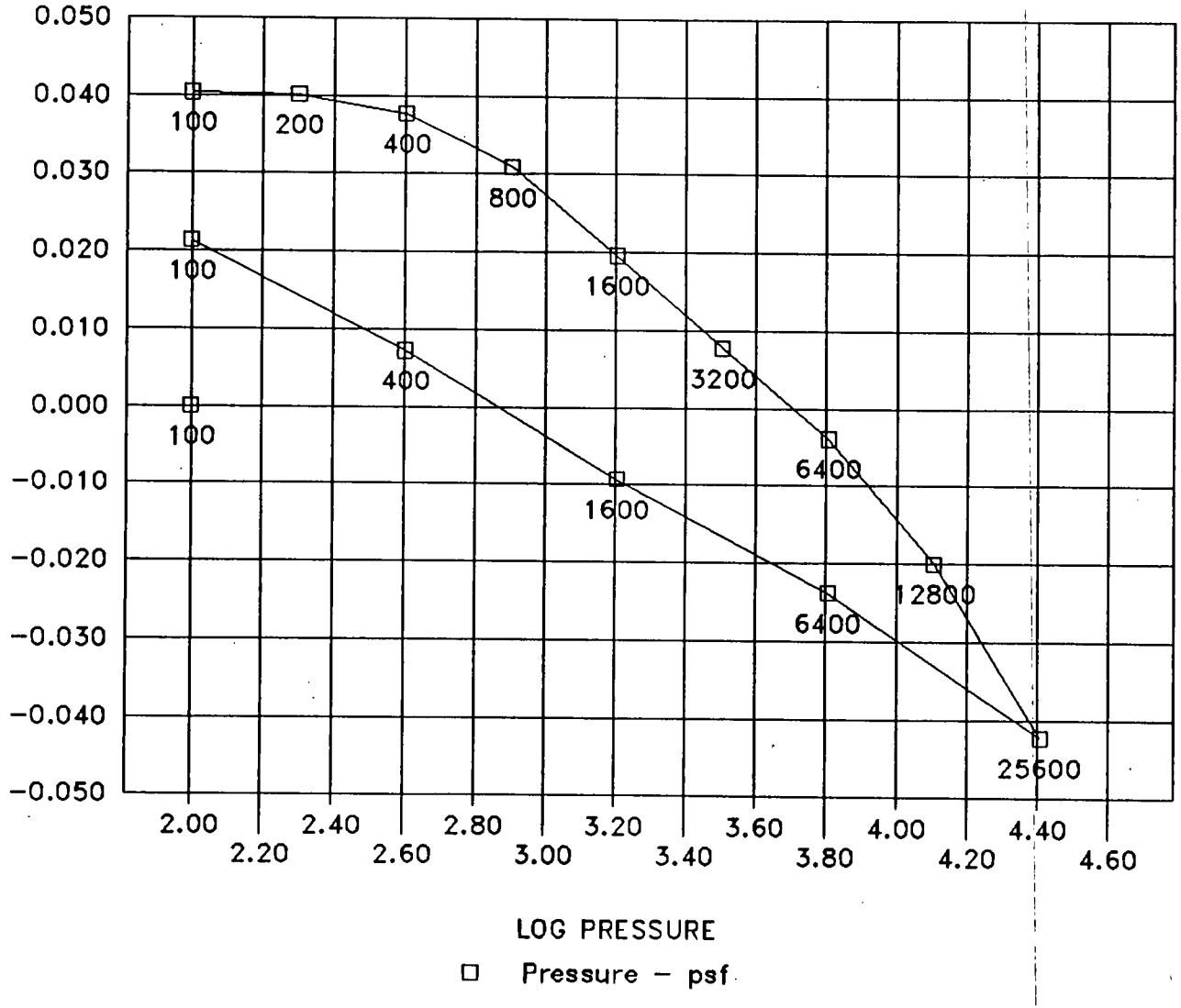
Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.0543	0.0000
0.1	0.32	0.0638	-0.0095
0.3	0.50	0.0648	-0.0105
0.5	0.71	0.0657	-0.0114
1.0	1.00	0.0658	-0.0115
2.0	1.41	0.0677	-0.0134
4.0	2.00	0.0684	-0.0141
9.0	3.00	0.0693	-0.0150
16.0	4.00	0.0701	-0.0158
30.0	5.48	0.0713	-0.0170
60.0	7.75	0.0714	-0.0171
120.0	10.95	0.0721	-0.0178
240.0	15.49	0.0725	-0.0182
480.0	21.91	0.0728	-0.0185

Data entry by: NAA Date: 6-28-95
Data checked by: cal Date: 6-29-95
FileName: SAC04R95

ADVANCED TERRA TESTING, INC.

CONSOLIDATION TEST DATA

G2-124,405004,10.0-12.0'



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000752

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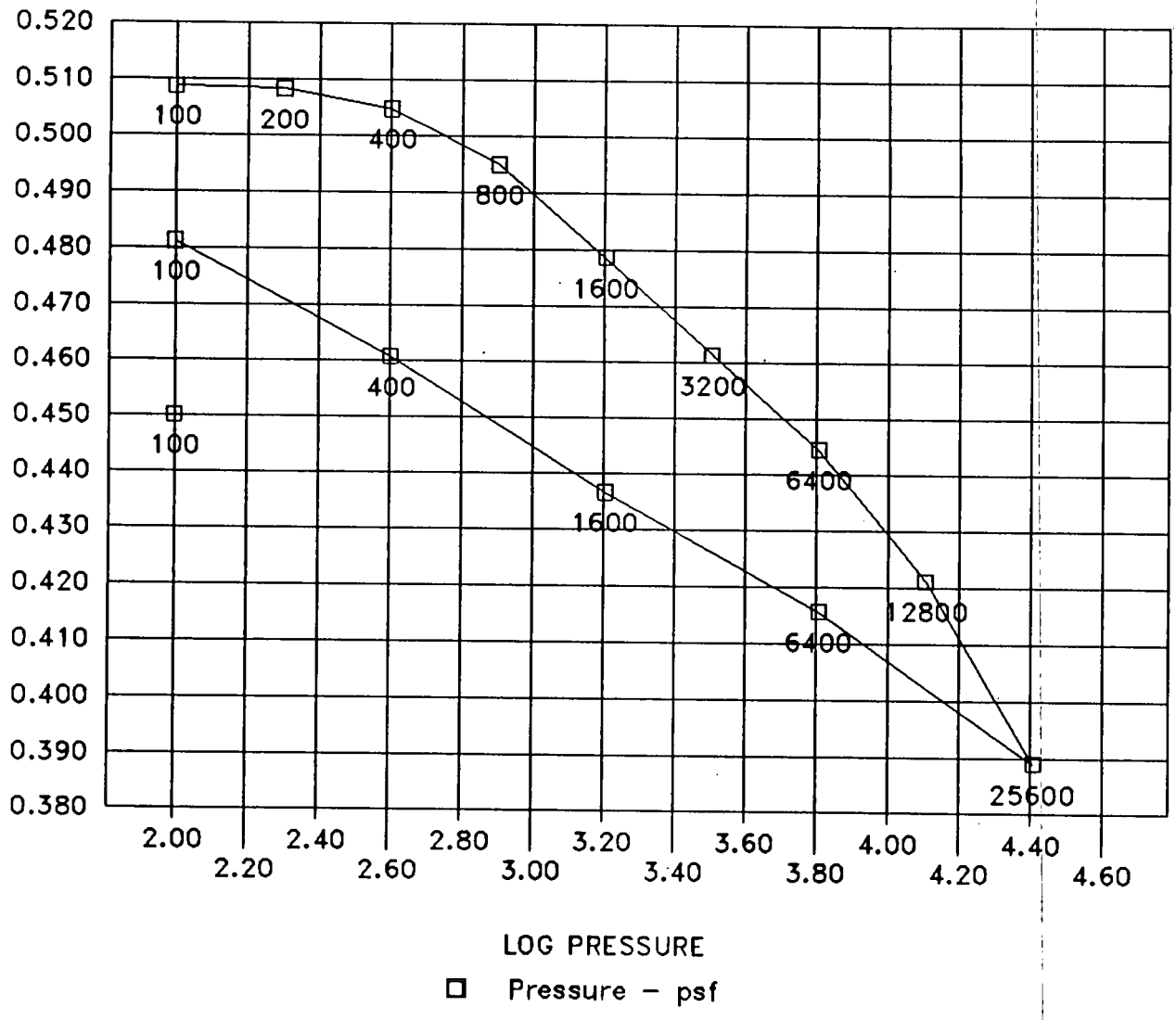
CONSOLIDATION TEST DATA

G2-124,405004,10.0-12.0'



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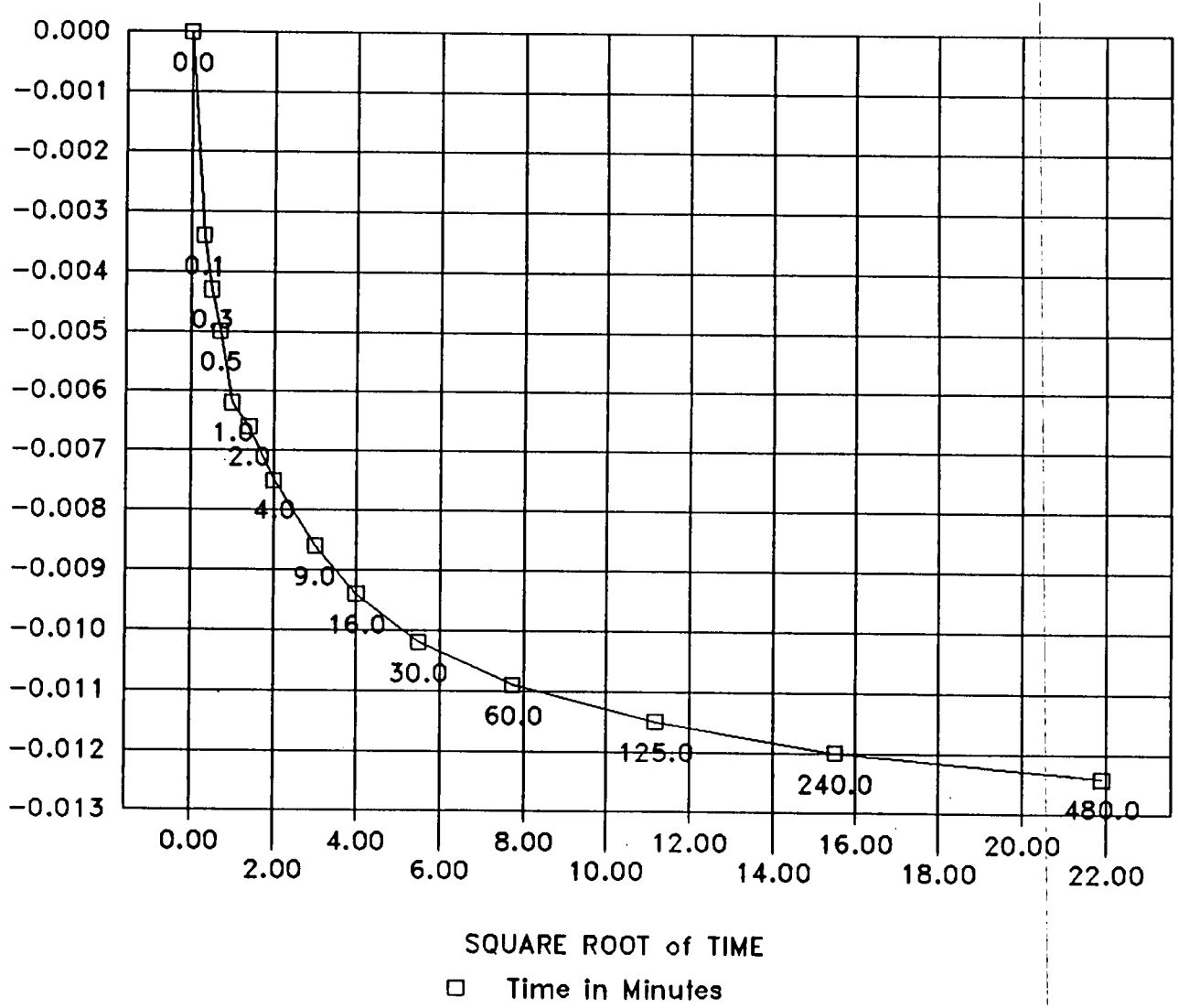
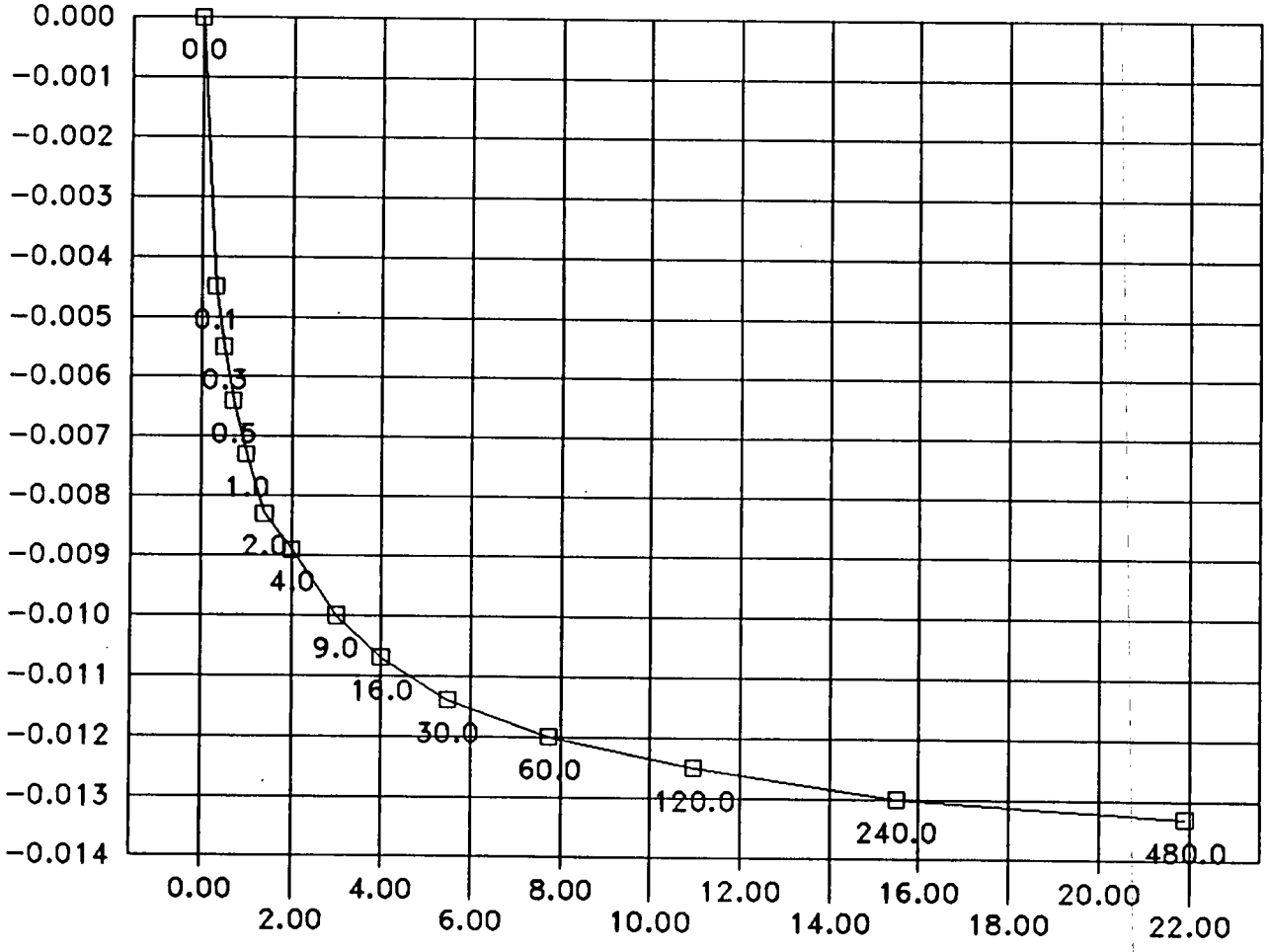
TIME READING DATA

G2-124,405004,10.0-12.0',1600 psf Load



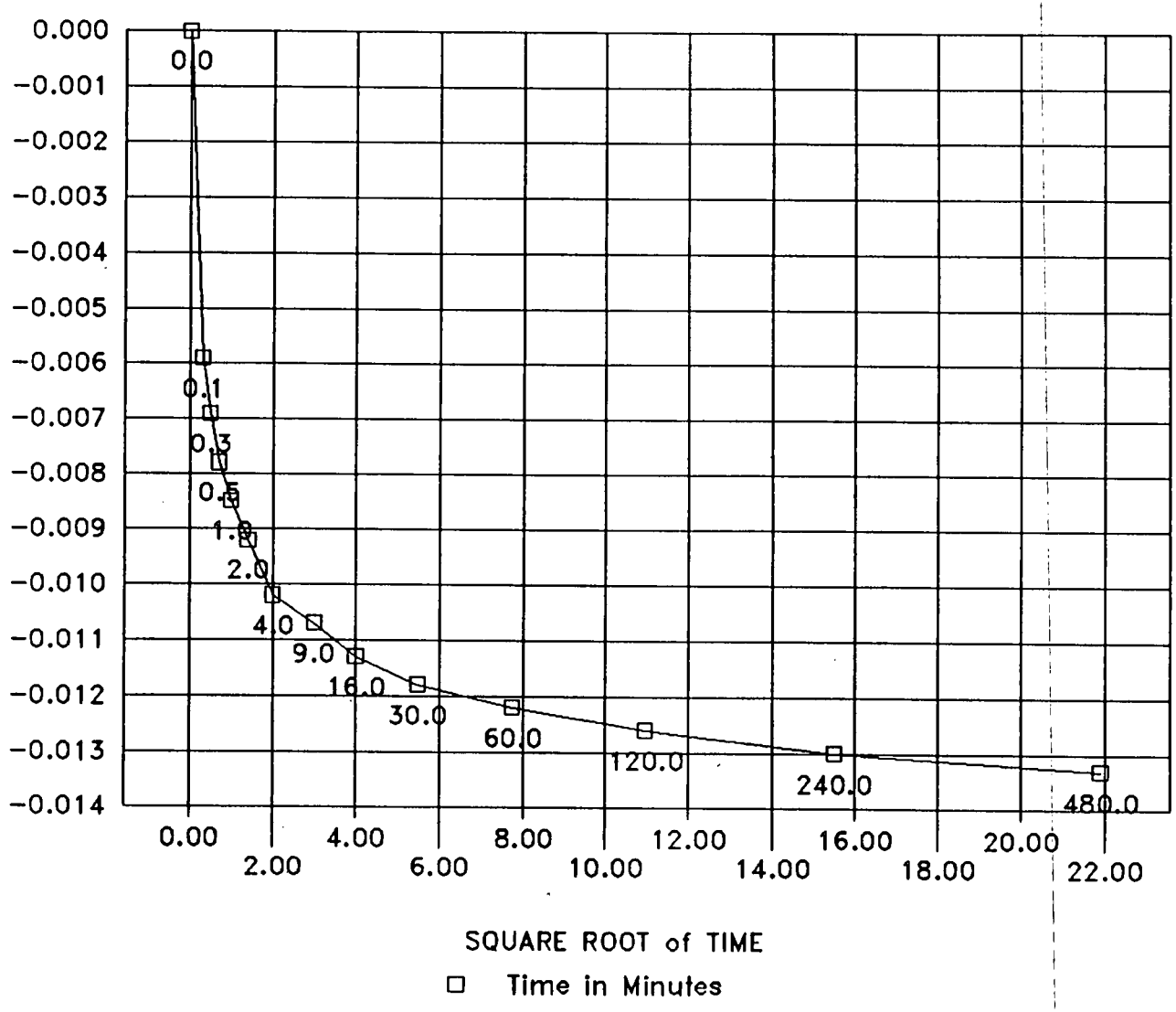
TIME READING DATA

G2-124,405004,10.0-12.0',3200 psf Load



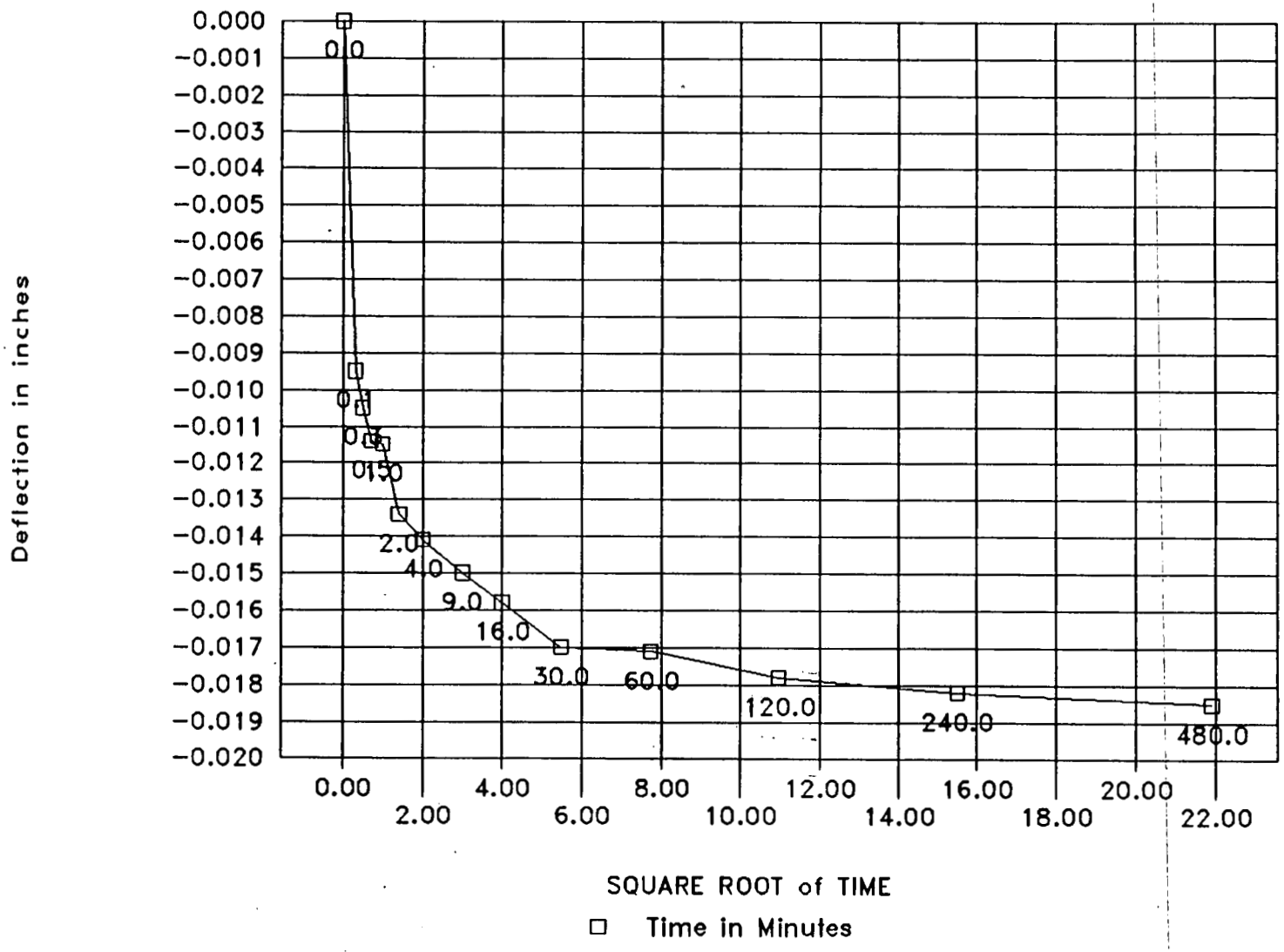
TIME READING DATA

G2-124,405004,10.0-12.0',6400 psf Load



TIME READING DATA

G2-124,405004,10.0-12.0',12800 psf Load



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000757

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CONSOLIDATION TEST DATA SHEET

~~[illegible]~~ SACC4R95 2
SACC4R95 3
SACE4R95 4

JOB SAIC / PARSONS PO140 JOB NO. 2059-13A

DATE SAMPLED 4-12-95 FP, MM BORING NO. 62-124

TEST STARTED 6-16-95 BY WEB TEST FINISHED 6/26/95 BY DPM DEPTH 100-126

SOIL TYPE Fernald SAMPLE 405004

CONSOLIDOMETER NO. ATT-17 INITIAL SAMPLE HEIGHT 1.00" D_o = 2.41"

MOISTURE & DENSITY DATA	BEFORE TEST	AFTER TEST
WT. OF RING(S) + SOIL	209.14	212.43
WT. OF RING(S) ONLY	46.20	
WT. OF SOIL (NET)		
WET DENSITY IN LBS/CU. FT.*		
WT. OF WET SOIL + DISH NO. 51c		
INT. OF DRY SOIL + DISH		
WT. OF LOST MOISTURE		
WT. OF DISH ONLY	3.69g	
WT. OF DRY SOIL		
MOISTURE AS % OF DRY WT.		
DRY DENSITY IN LBS/CU. FT.		

TEST INSTRUCTIONS

LOAD CYCLE	100	WET	200
400	800	1600 IR	3200 I
6400 IR	12800 IR	25600	

Rebound x 2

SPECIAL INSTRUCTION AND NOTES

Dry WT Soil + Ring + Pan ~~212.~~ 140.1 Wt

CONC

Remolded at +4% opt. Moist. to 95% Max Dry Density

SpGr = 2.72

FH = 1.0214

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOLIDATION
	1118	0	100	.0424		
	1128	10		.0433		
			WET	WB		
	1131	1	.0379	~~.0495~~		
	1132	2		.0379		
	1321			.0108		
	1429			.0076		
	1638			.0047		
6-17-95	0752			.0029	-.0404	-.0404
			200			
	0820	1		.0033		
	0821	2		.0035		
	0840			.0036		-.0401
	1011			.0037	-.0396	~~[illegible]~~ Na
			400			
	1014	1		.0051		
	1015	2		.0054		
	1206			.0064		
	1540			.0067		
6-18-95	0810			.0068	-.0365	-.0377
			800			
	0920	1		.0101		
	0921	2		.0106		
	0942			.0124		
	1026			.0132		
	1512			.0144		
6-19-95	~~[illegible]~~					
	0806			.0147	-.0286	-.0309

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOLIDATION
6-19-95			1600			
	0806	.1		.0181		
		.25		.0190		
		.5		.0197		
	0807	1		.0209		
	0808	2		.0213		
	0810	4		.0222		
	0815	9		.0233		
	0822	16		.0241		
	0836	30		.0249		
	0906	60		.0256		
	1006	120		.0262		
	1206	240		.0267		
	1606	480		.0271		
6-20-95	0739			.0273	-.0160	-.0196
			3200			
		.1		.0318		
		.25		.0328		
		.5		.0337		
	0740	1		.0346		
	0741	2		.0356		
	0743	4		.0362		
	0748	9		.0373		
	0755	16		.0380		
	0809	30		.0387		
	0839	60		.0393		
	0939	120		.0398		
	1239	240		.0403		
	1639	480		.0406		

693

CONTINUED ON REVERSE SIDE

ADVANCED TERRA TESTING

CONSOLIDATION TEST DATA SHEET (CONTINUED)

SAIC/Parsons PO140
G2-124 #405004
10.0-12.0'

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOLIDATION
6-21-95	0743		3200	.0408	.0025	.0078
			6400	.0467		
	0743	.1		.0477	WB	
		.25		.0486	6-21-95	
		.5				
	0744	1		.0493		
	0745	2		.0500		
	0747	4		.0510		
	0752	9		.0515		
	0759	16		.0521		
	0813	30		.0526		
	0843	60		.0530		
	0943	120		.0534		
	1143	240		.0538		
	1543	480		.0541		
6-22-95	651			.0543		
	701			.0543	.0110	.0039
		.1	12800	.0638		
		.25		.0648		
		.5		.0657		
	702	1		.0658		
	703	2	cal	~~.0658~~ .0677		dial stuck
	705	4		.0684		
	710	9		.0693		
	717	16		.0701		
	731	30		.0713		
	801	60		.0714		
	901	120		.0721		
	1101	240		.0725		
	1501	480		.0728		
6-23-95	0658			.0730	.0297	.0200
6-23-95						
	0659	1	25600	.0850		
	0700	2		.0871		
	0800			.0968		
	0855			.0976		
	955			.0980		
	1103			.0983	.0550	.0422
	1104	1	6400	.0918		
	1105	2	Rebound	.0914		
	1157			.0887		
	1316			.0886	.0453	.0238
	1317	1	1600	.0837		
	1318	2	Rebound	.0826		
	1428			.0739		
	1533			.0732		
6-24-95	0751			.0714		
	1410			.0715	.0282	.0093
			400			
	1413	1		.0692		
	1414	2		.0686		
	1419			.0673		
	1456			.0624		
6-25-95	0733			.0538		

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOLIDATION
6-25-95	0918		400	.0537	.0104	.0073
			100			
	0921	1		.0527		
	0922	2		.0525		
	0948			.0501		
	1243			.0444		
6-26-95	0718			~~.0453~~	.0393	
	0918			.0391		
	0954			.0391	.0042	.0214

CONSOLIDATION TEST
ASTM D-2435

CLIENT SAIC/Parsons PO 140 JOB NO. 2059-13D

BORING NO.	G2-126	SAMPLED	2-24-95 JM
DEPTH	15.0-17.0'	TEST STARTED	6-19-95 REW
SAMPLE NO.	404773	TEST FINISHED	6-28-95 DSR
SOIL DESCR.	Fernald	CELL NUMBER	ATT-2
Note: Remolded to 95% MDD			
SAMPLE DIA.(in)	2.410	INITIAL HT.(in)	1.000

MOISTURE/DENSITY DATA	BEFORE TEST	AFTER TEST	LOAD (PSF)	CONSOL. (IN.)
Wt. Soil & Ring(s) (g)	209.1	207.6	100	0.0000
Wt. Ring(s) (g)	45.4	45.4	100	0.0012
Wt. Soil (g)	163.7	162.2	200	0.0031
Wet Density PCF	136.7	148.1	400	0.0092
			800	0.0157
Wt. Wet Soil & Pan (g)	167.4	165.8	1600	0.0255
Wt. Dry Soil & Pan (g)	146.9	146.9	3200	0.0385
Wt. Lost Moisture (g)	20.5	18.9	6400	0.0584
Wt. of Pan Only (g)	3.7	3.7	12800	0.0764
Wt. of Dry Soil (g)	143.2	143.2	25600	0.1004
Moisture Content %	14.3	13.2	6400	0.0950
Dry Density PCF	119.6	130.8	1600	0.0902
			400	0.0892
			100	0.0857

	LOAD (PSF)	LOG p	CONSOL. (IN.)	DEFL. (IN.)	VOID RATIO e
	100	2.000	0.0000	0.0000	0.4042
Saturate	100	2.000	0.0012	-0.0012	0.4025
	200	2.301	0.0031	-0.0031	0.3999
	400	2.602	0.0092	-0.0092	0.3913
	800	2.903	0.0157	-0.0157	0.3822
	1600	3.204	0.0255	-0.0255	0.3684
	3200	3.505	0.0385	-0.0385	0.3501
	6400	3.806	0.0584	-0.0584	0.3222
	12800	4.107	0.0764	-0.0764	0.2969
	25600	4.408	0.1004	-0.1004	0.2632
	6400	3.806	0.0950	-0.0950	0.2708
	1600	3.204	0.0902	-0.0902	0.2775
	400	2.602	0.0892	-0.0892	0.2790
	100	2.000	0.0857	-0.0857	0.2839

% Saturation	95.2
Sp. Gr. (g/cc)	2.690
Init. Ht. Solids (cm)	1.809
Init. Ht. Voids (cm)	0.731
Init. Void Ratio	0.4042

Data entry by: NAA Date: 6-29-95
Data checked by: a) Date: 8-12-95
FileName:SAC0773R

ADVANCED TERRA TESTING, INC.

TIME READING DATA

G2-126
15.0-17.0'

1600 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.2866	0.0000
0.1	0.32	0.2813	-0.0053
0.3	0.50	0.2800	-0.0066
0.5	0.71	0.2791	-0.0075
1.0	1.00	0.2780	-0.0086
2.0	1.41	0.2775	-0.0091
4.0	2.00	0.2769	-0.0097
9.0	3.00	0.2763	-0.0103
16.0	4.00	0.2759	-0.0107
30.0	5.48	0.2756	-0.0110
60.0	7.75	0.2753	-0.0113
120.0	10.95	0.2750	-0.0116
240.0	15.49	0.2746	-0.0120
480.0	21.91	0.2743	-0.0123

3200 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.2739	0.0000
0.1	0.32	0.2675	-0.0064
0.3	0.50	0.2662	-0.0077
0.5	0.71	0.2650	-0.0089
1.0	1.00	0.2638	-0.0101
2.0	1.41	0.2628	-0.0111
4.0	2.00	0.2619	-0.0120
9.0	3.00	0.2611	-0.0128
16.0	4.00	0.2606	-0.0133
30.0	5.48	0.2601	-0.0138
60.0	7.75	0.2598	-0.0141
120.0	10.95	0.2595	-0.0144
240.0	15.49	0.2592	-0.0147
480.0	21.91	0.2590	-0.0149

6400 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.2587	0.0000
0.1	0.32	0.2450	-0.0137
0.3	0.50	0.2432	-0.0155
0.5	0.71	0.2423	-0.0164
1.0	1.00	0.2415	-0.0172
2.0	1.41	0.2409	-0.0178
4.0	2.00	0.2402	-0.0185
9.0	3.00	0.2395	-0.0192
16.0	4.00	0.2391	-0.0196
30.0	5.48	0.2387	-0.0200
60.0	7.75	0.2384	-0.0203
120.0	10.95	0.2381	-0.0206
240.0	15.49	0.2378	-0.0209
480.0	21.91	0.2376	-0.0211

12800 psf Load

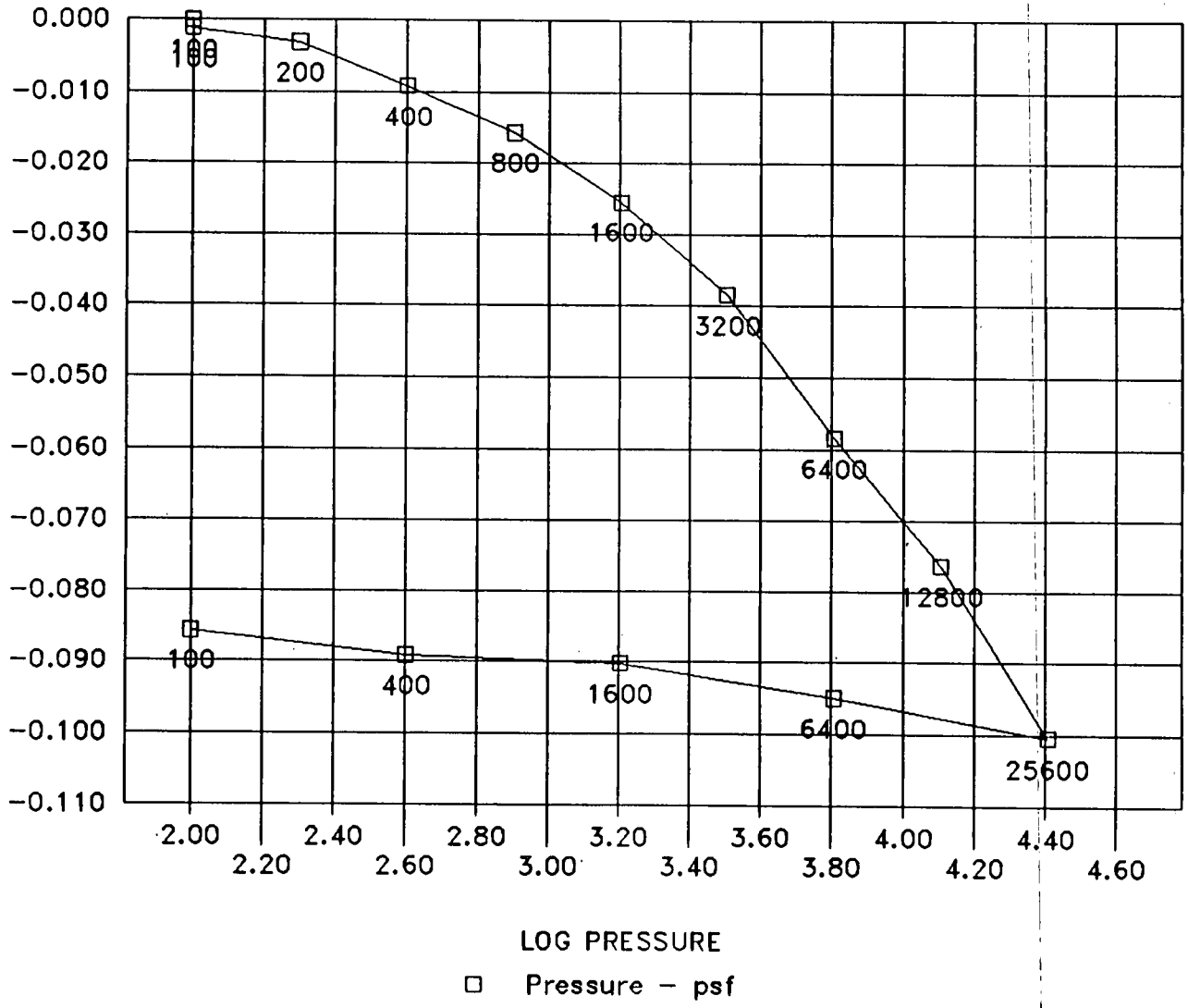
Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.2369	0.0000
0.1	0.32	0.2260	-0.0109
0.3	0.50	0.2246	-0.0123
0.5	0.71	0.2238	-0.0131
1.0	1.00	0.2229	-0.0140
2.0	1.41	0.2221	-0.0148
4.0	2.00	0.2212	-0.0157
9.0	3.00	0.2200	-0.0169
16.0	4.00	0.2193	-0.0176
30.0	5.48	0.2187	-0.0182
60.0	7.75	0.2182	-0.0187
120.0	10.95	0.2179	-0.0190
240.0	15.49	0.2176	-0.0193
480.0	21.91	0.2173	-0.0196

Data entry by: NAA Date: 6-29-95
Data checked by: cal Date: 6-29-95
FileName: SAC0773R

ADVANCED TERRA TESTING, INC.

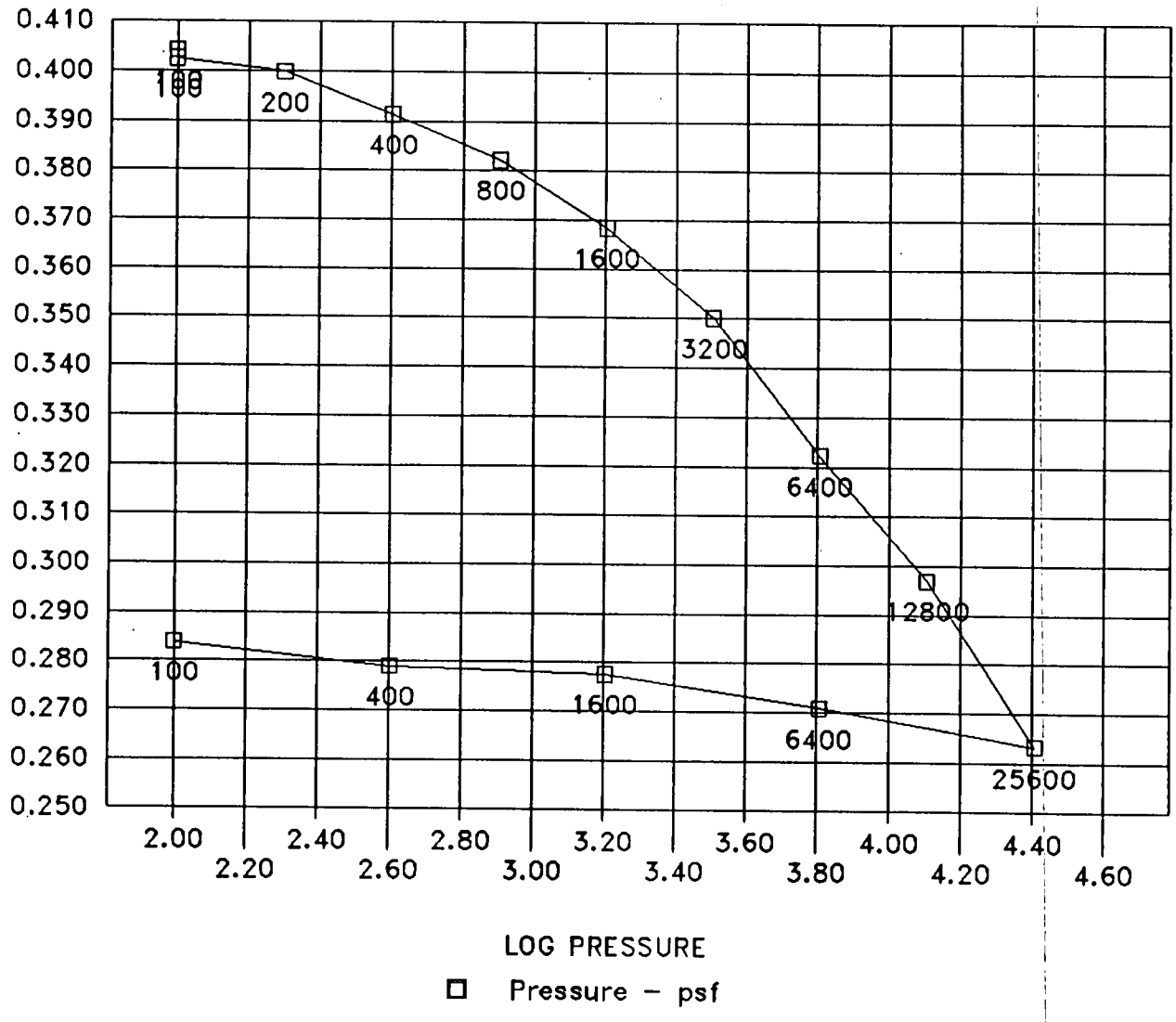
CONSOLIDATION TEST DATA

G2-126,404773,15.0-17.0'



CONSOLIDATION TEST DATA

G2-126,404773,15.0-17.0'



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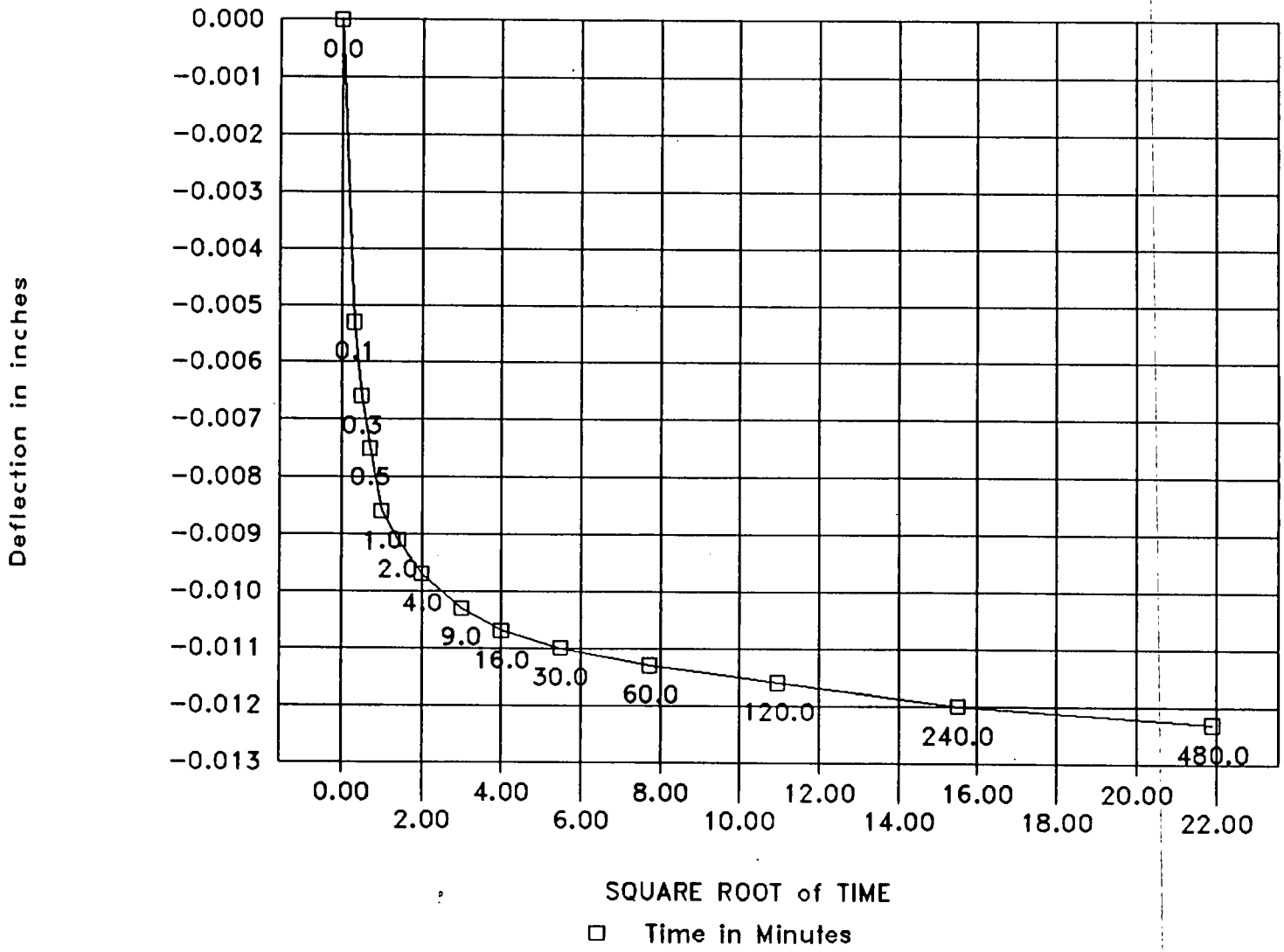
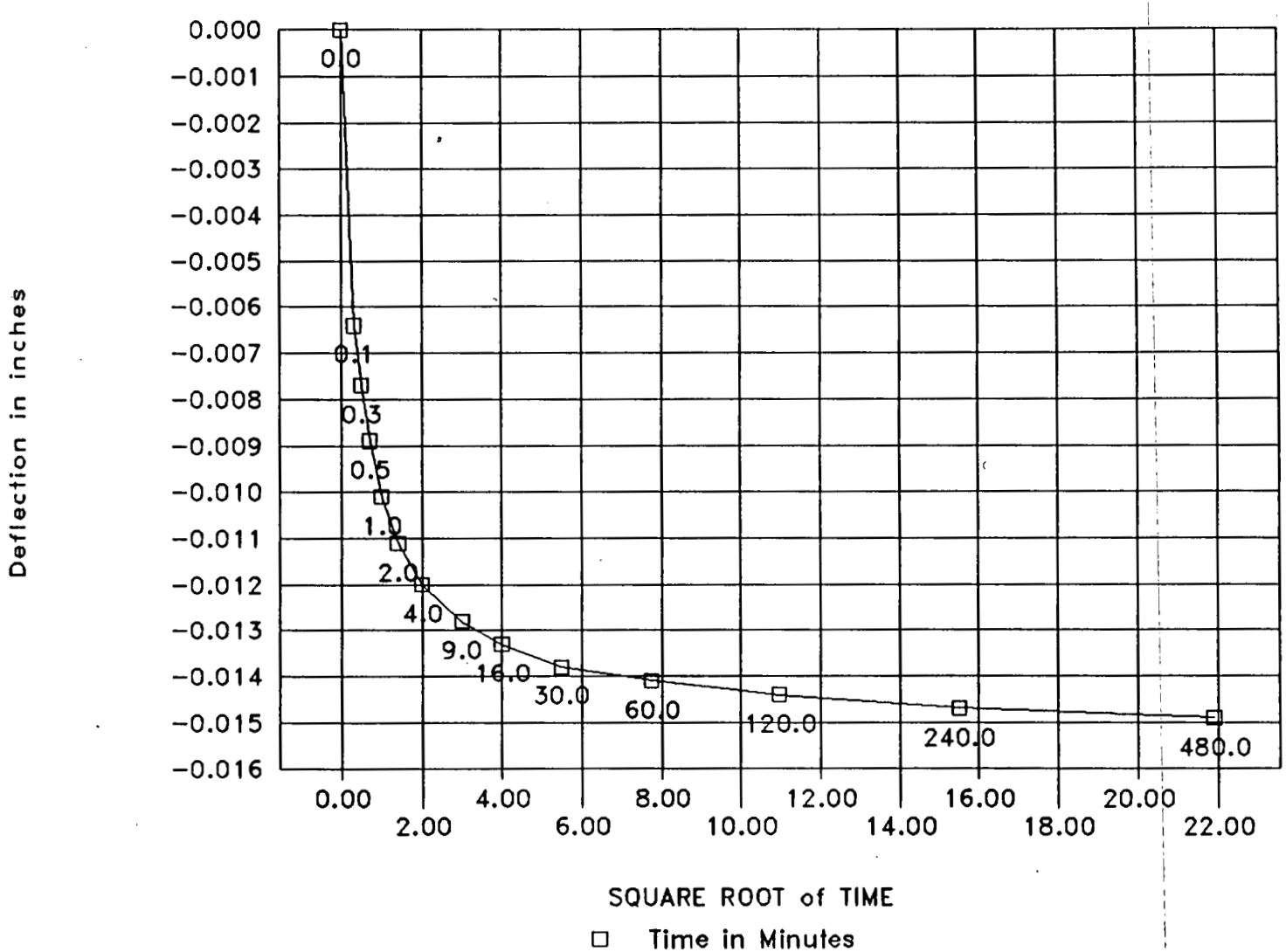
TIME READING DATA

G2-126,404773,15.0-17.0',1600 psf Load



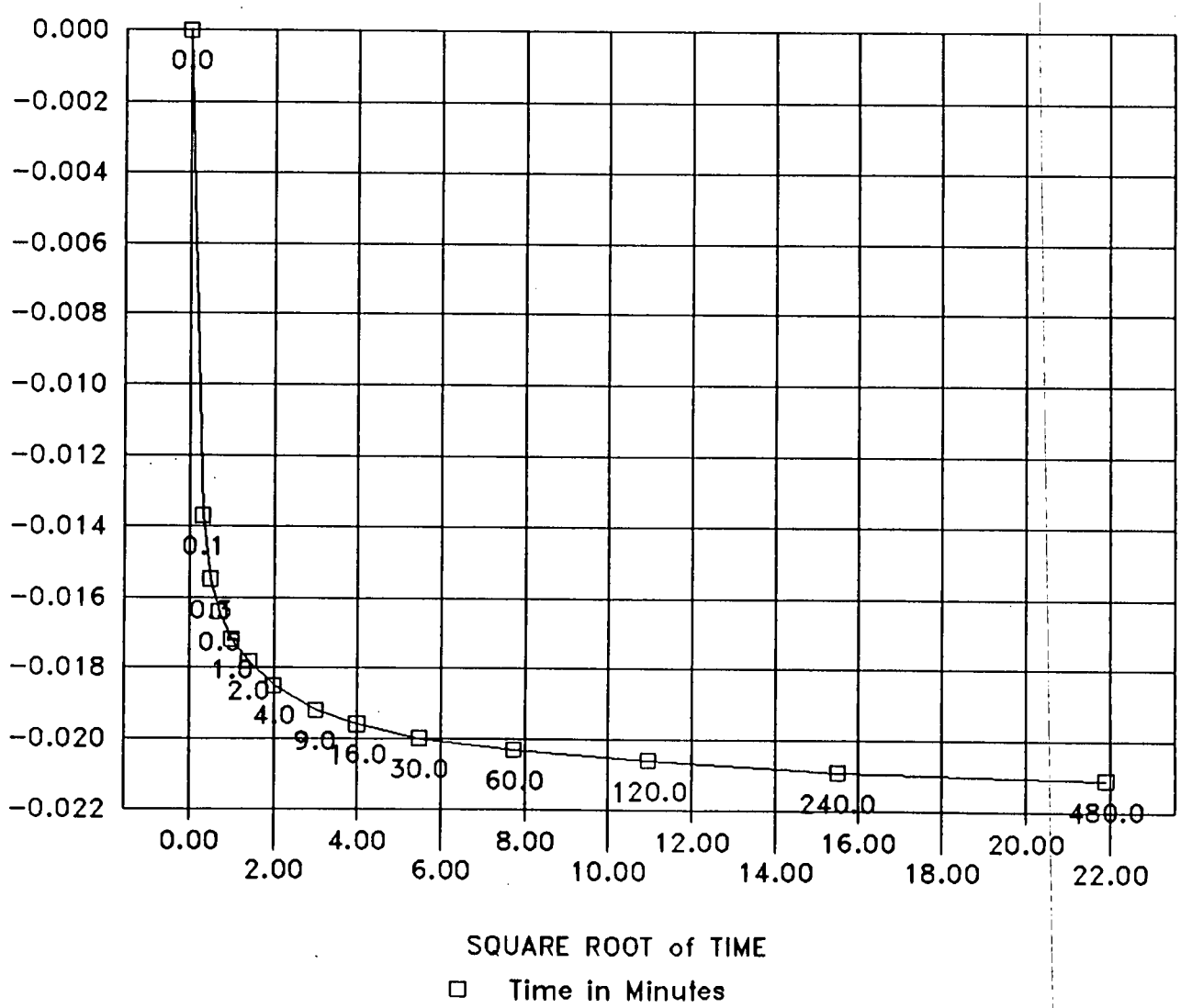
TIME READING DATA

G2-126,404773,15.0-17.0',3200 psf Load



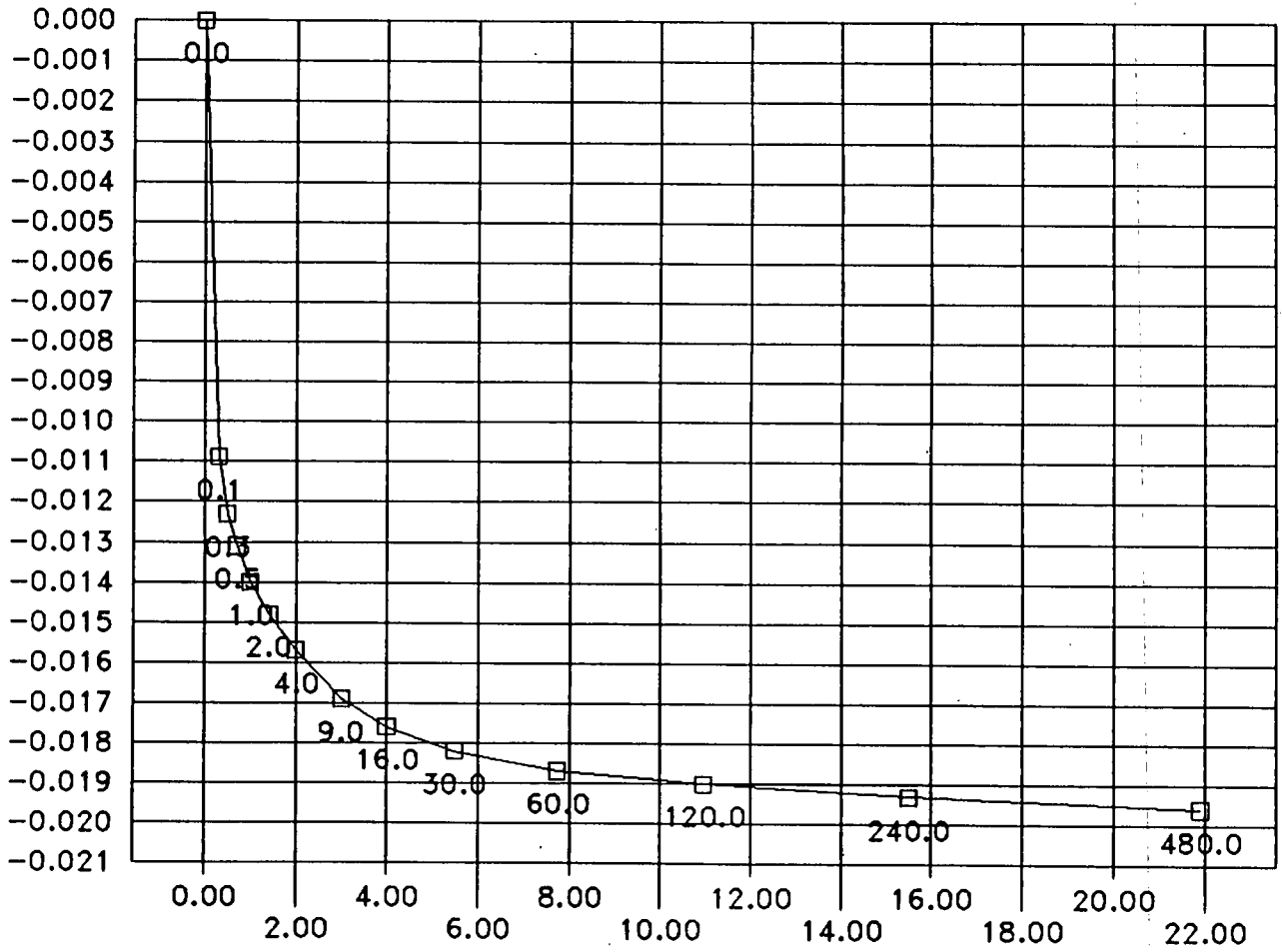
TIME READING DATA

G2-126,404773,15.0-17.0',6400 psf Load



TIME READING DATA

G2-126,404773,15.0-17.0',12800 psf Load



SACØ11SK SACC773R SACE773R

SACØ11SK 2 3 4

CONSOLIDATION TEST DATA SHEET

JOB SAIC / Parsons PO 140 JOB NO. 2059-13 D

DATE SAMPLED 2-24-95 JM BORING NO. G2-126

TEST STARTED 6-19-95 BY REW TEST FINISHED 6-28-95 BY DSR DEPTH 15-17'

SOIL TYPE Fernald Sample # 404773

CONSOLIDOMETER NO. ATT-2 INITIAL SAMPLE HEIGHT 1.00"

MOISTURE & DENSITY DATA	BEFORE TEST	AFTER TEST
WT. OF RING(S)+ SOIL (g)	209.10	207.56
WT. OF RING(S) ONLY (g)	45.41	45.41
WT. OF SOIL (NET)		
WET DENSITY IN LBS/CU. FT.*		
WT. OF WET SOIL + DISH NO. L0		
INT. OF DRY SOIL + DISH		
WT. OF LOST MOISTURE		
WT. OF DISH ONLY		
WT. OF DRY SOIL	3.67	
MOISTURE AS % OF DRY WT.		
DRY DENSITY IN LBS/CU. FT.		

TEST INSTRUCTIONS

LOAD CYCLE 100 wet 200 400 800 1600 TR 3200 6400 TR 12800 TR 25600 Reb x2

SPECIAL INSTRUCTION AND NOTES

Remolded Con r 95%

Dry wt. soil + pan + ring = 192.29

SpGr = 2.69

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOLIDATION
6-19-95			100			
	1533	1		.3086		
	1534	2		.3083		
	1542	10		.3075	.0000	
			wet			
	1543	1		.3072		
	1544	2		.3070		
	1734			.3064		
6-20-95	0754			.3063	.0012	.0012
			200			
	0755	1		.3050		
	0756	2		.3050		
	0948			.3036		
	1123			.3034	.0041	.0031
			400			
	1125	1		.2976		
	1126	2		.2973		
	1240			.2959		
	1340			.2956	.0119	.0092
			800			
	1341	1		.2900		
	1342	2		.2895		
	1450			.2876		
	1559			.2873		
	1714			.2871		
6-21-95	0810			.2866	.0209	.0157

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOLIDATION
6-21-95			1600			
	0810	.1		.2813		
		.25		.2800		
		.5		.2791		
	0811	1		.2780		
	0812	2	wd	.2775		
	0814	4		.2769		
	0819	9		.2763		
	.0826	16		.2759		
	0840	30		.2756		
	0910	60		.2753		
	1010	120		.2750		
	1210	240		.2746		
	1610	480		.2743		
6-22-95	657			.2739		
	711			.2739	.0336	.0255
		.1	3200	.2675		
		.25		.2662		
		.5		.2650		
	712	1		.2638		
	713	2		.2628		
	715	4		.2619		
	720	9		.2611		
	727	16		.2606		
	741	30		.2601		
	811	60		.2598		
	911	120		.2595		
	1111	240		.2592		
	1511	480		.2590		

ADVANCED TERRA TESTING

703 CONTINUED ON REVERSE SIDE

SAIC/DARBONS PO 140
62-126 15.0-20'
404773

CONSOLIDATION TEST DATA SHEET (CONTINUED)

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOLIDATION
6-23-95	713		3200 (cont)	.2587	.0488	.0385
		.1	6400	.2450		
		.25		.2432		
		.5		.2423		
	714	1		.2415		
	715	2		.2409		
	717	4		.2402		
	722	9		.2395		
	729	16		.2391		
	743	30		.2387		
	813	60		.2384		
	913	120		.2381		
	1113	240		.2378		
	1513	480		.2376		
6-24-95	0754			.2372		
6-26-95	0721			.2369	.0706	.0584
			12800			
		.1		.2260		
		.25		.2246		
		.5		.2238		
	0722	1		.2229		
	0723	2		.2221		
	0725	4		.2212		
	0730	9		.2200		
	0737	16		.2193		
	0751	30		.2187		
	0821	60		.2182		
	0921	120		.2179		
	1121	240		.2176		
	1521	480		.2173		
6-27-95	0718			.2169	.0906	.0764
			25600			
	0719	1		.2000		
	0720	2		.1981		
	0813			.1916		
	0922			.1911		
	1123			.1907		
	1324			.1904	.1171	.1004
			6400			
	1333	1		.1972		
	1334	2		.1970		
	1513			.1975		
	1639			.1975	.1100	.0950
		~~1~~	1600			
	1642	1		.2028		
	1643	2		.2029		
6-28-95	0717			.2042		
	0817			.2042	.1033	.0902
			400			
	0813	1		.2069		
	0814	2		.2071		
	0931			.2087		
	1048			.2089	.0946	.0892
		~~4~~	100			
	1049	1		.2105		

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOLIDATION
6-29-95	1050	2	100	.2107		
	1346			.2147		
	1507			.2150	.0925	.0857

704 ATT-2

CONSOLIDATION TEST
ASTM D-2435

CLIENT SAIC/Parsons PO 140 JOB NO. 2059-13H

BORING NO.	G2-130	SAMPLED	4-24-95 MM
DEPTH	15.0-17.0'	TEST STARTED	7-2-95 WEB
SAMPLE NO.	405080	TEST FINISHED	7-10-95 DSR
SOIL DESCR.	Fernald	CELL NUMBER	ATT-8
Note: Remolded to 95% MDD			
SAMPLE DIA.(in)	2.410	INITIAL HT.(in)	1.000

MOISTURE/DENSITY DATA	BEFORE TEST	AFTER TEST
Wt. Soil & Ring(s) (g)	208.0	204.8
Wt. Ring(s) (g)	44.9	44.9
Wt. Soil (g)	163.1	160.0
Wet Density PCF	136.2	148.1
Wt. Wet Soil & Pan (g)	166.6	163.5
Wt. Dry Soil & Pan (g)	148.0	148.0
Wt. Lost Moisture (g)	18.7	15.5
Wt. of Pan Only (g)	3.5	3.5
Wt. of Dry Soil (g)	144.4	144.4
Moisture Content %	12.9	10.8
Dry Density PCF	120.6	133.7

LOAD (PSF)	CONSOL. (IN.)
100	0.0000
100	-0.0002
200	0.0021
400	0.0049
800	0.0114
1600	0.0240
3200	0.0580
6400	0.0797
12800	0.0971
25600	0.1137
6400	0.1101
1600	0.1081
400	0.1032
100	0.0982

	LOAD (PSF)	LOG p	CONSOL. (IN.)	DEFL. (IN.)	VOID RATIO e
	100	2.000	0.0000	0.0000	0.4442
Saturate	100	2.000	-0.0002	0.0002	0.4445
	200	2.301	0.0021	-0.0021	0.4412
	400	2.602	0.0049	-0.0049	0.4371
	800	2.903	0.0114	-0.0114	0.4277
	1600	3.204	0.0240	-0.0240	0.4095
	3200	3.505	0.0580	-0.0580	0.3604
	6400	3.806	0.0797	-0.0797	0.3291
	12800	4.107	0.0971	-0.0971	0.3040
	25600	4.408	0.1137	-0.1137	0.2800
	6400	3.806	0.1101	-0.1101	0.2852
	1600	3.204	0.1081	-0.1081	0.2881
	400	2.602	0.1032	-0.1032	0.2952
	100	2.000	0.0982	-0.0982	0.3024

% Saturation	81.2
Sp. Gr. (g/cc)	2.790
Init. Ht. Solids (cm)	1.759
Init. Ht. Voids (cm)	0.781
Init. Void Ratio	0.4442

Data entry by: NAA Date: 7-11-95
Data checked by: CJ Date: 8-12-95
FileName: SAC08095

ADVANCED TERRA TESTING, INC.

TIME READING DATA

G2-130
15.0-17.0'

1600 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.0126	0.0000
0.1	0.32	0.0170	-0.0044
0.3	0.50	0.0191	-0.0065
0.5	0.71	0.0195	-0.0069
1.0	1.00	0.0205	-0.0079
2.0	1.41	0.0216	-0.0090
4.0	2.00	0.0226	-0.0100
9.0	3.00	0.0236	-0.0110
16.0	4.00	0.0241	-0.0115
30.0	5.48	0.0246	-0.0120
60.0	7.75	0.0251	-0.0125
120.0	10.95	0.0254	-0.0128
240.0	15.49	0.0257	-0.0131
480.0	21.91	0.0260	-0.0134

3200 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.0261	0.0000
0.1	0.32	0.0481	-0.0220
0.3	0.50	0.0506	-0.0245
0.5	0.71	0.0521	-0.0260
1.0	1.00	0.0535	-0.0274
2.0	1.41	0.0549	-0.0288
4.0	2.00	0.0564	-0.0303
9.0	3.00	0.0582	-0.0321
16.0	4.00	0.0590	-0.0329
30.0	5.48	0.0598	-0.0337
60.0	7.75	0.0603	-0.0342
120.0	10.95	0.0607	-0.0346
240.0	15.49	0.0610	-0.0349
480.0	21.91	0.0614	-0.0353

6400 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.0615	0.0000
0.1	0.32	0.0715	-0.0100
0.3	0.50	0.0732	-0.0117
0.5	0.71	0.0741	-0.0126
1.0	1.00	0.0753	-0.0138
2.0	1.41	0.0768	-0.0153
4.0	2.00	0.0787	-0.0172
9.0	3.00	0.0807	-0.0192
16.0	4.00	0.0820	-0.0205
30.0	5.48	0.0827	-0.0212
60.0	7.75	0.0833	-0.0218
120.0	10.95	0.0837	-0.0222
240.0	15.49	0.0841	-0.0226
480.0	21.91	0.0844	-0.0229

12800 psf Load

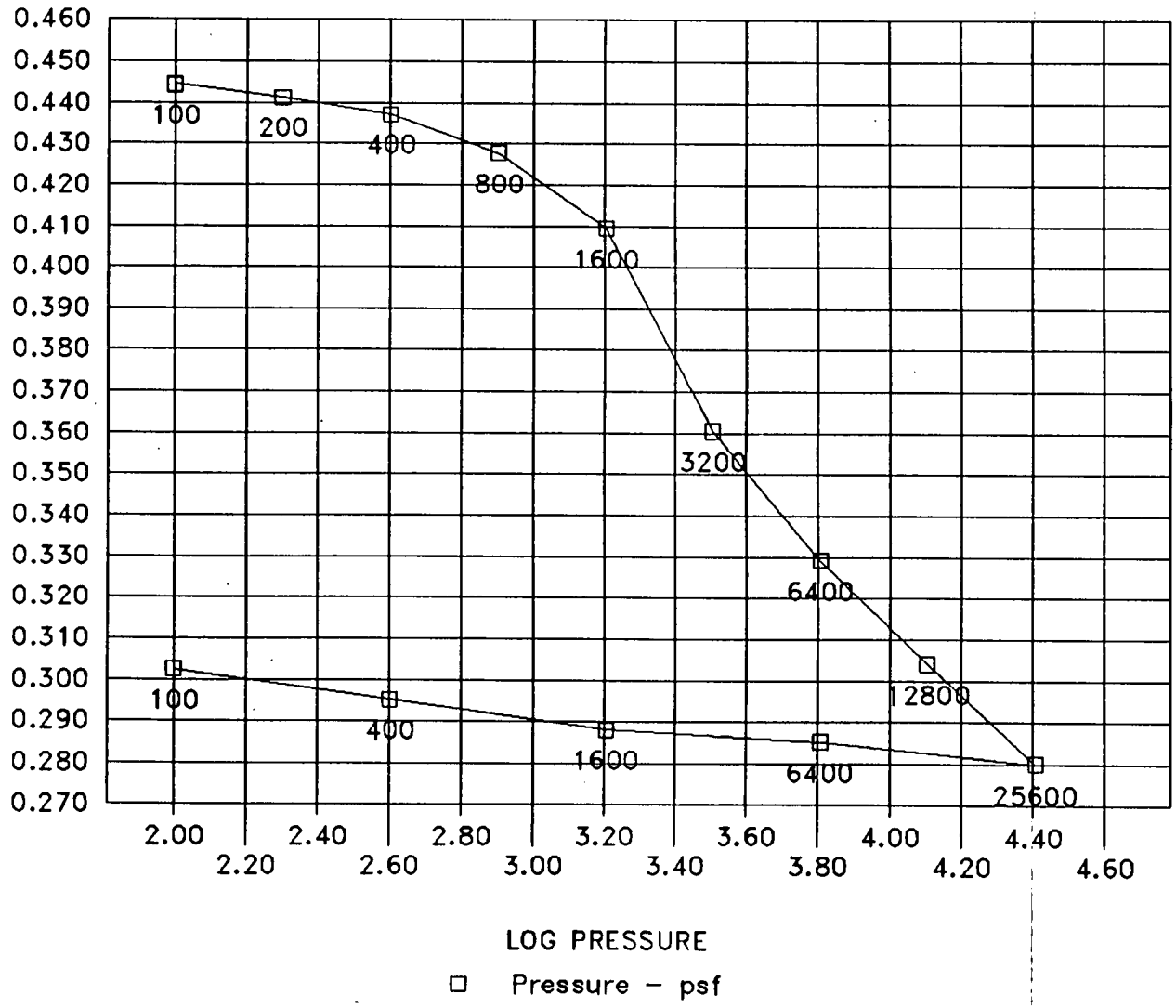
Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.0847	0.0000
0.1	0.32	0.0908	-0.0061
0.3	0.50	0.0920	-0.0073
0.5	0.71	0.0931	-0.0084
1.0	1.00	0.0944	-0.0097
2.0	1.41	0.0960	-0.0113
4.0	2.00	0.0979	-0.0132
9.0	3.00	0.0999	-0.0152
16.0	4.00	0.1009	-0.0162
30.0	5.48	0.1015	-0.0168
60.0	7.75	0.1022	-0.0175
120.0	10.95	0.1026	-0.0179
240.0	15.49	0.1030	-0.0183
480.0	21.91	0.1034	-0.0187

Data entry by: NAA Date: 7-11-95
Data checked by: CJ Date: 8-12-95
FileName:SAC08095

ADVANCED TERRA TESTING, INC.

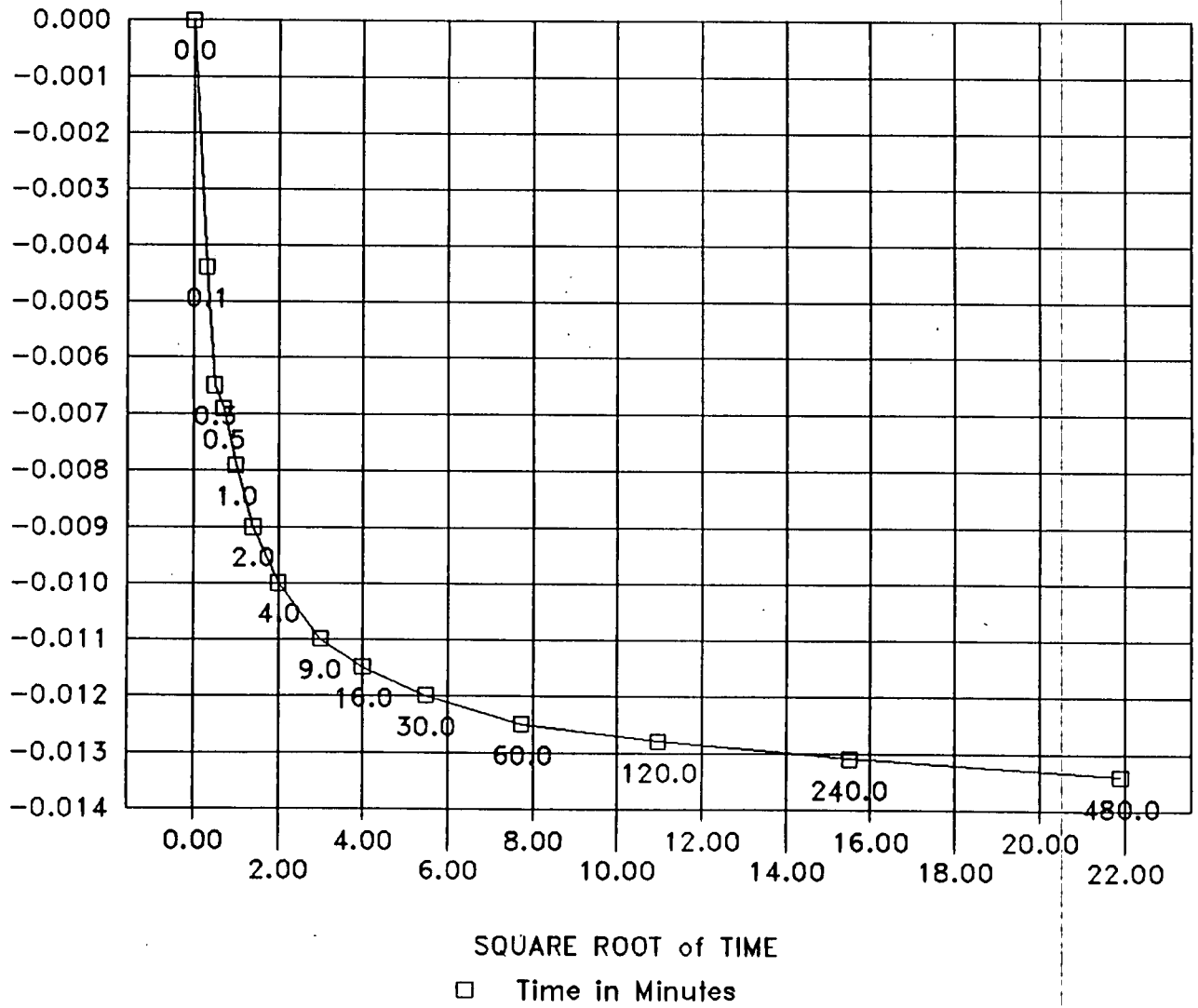
CONSOLIDATION TEST DATA

G2-130,405080,15.0-17.0'



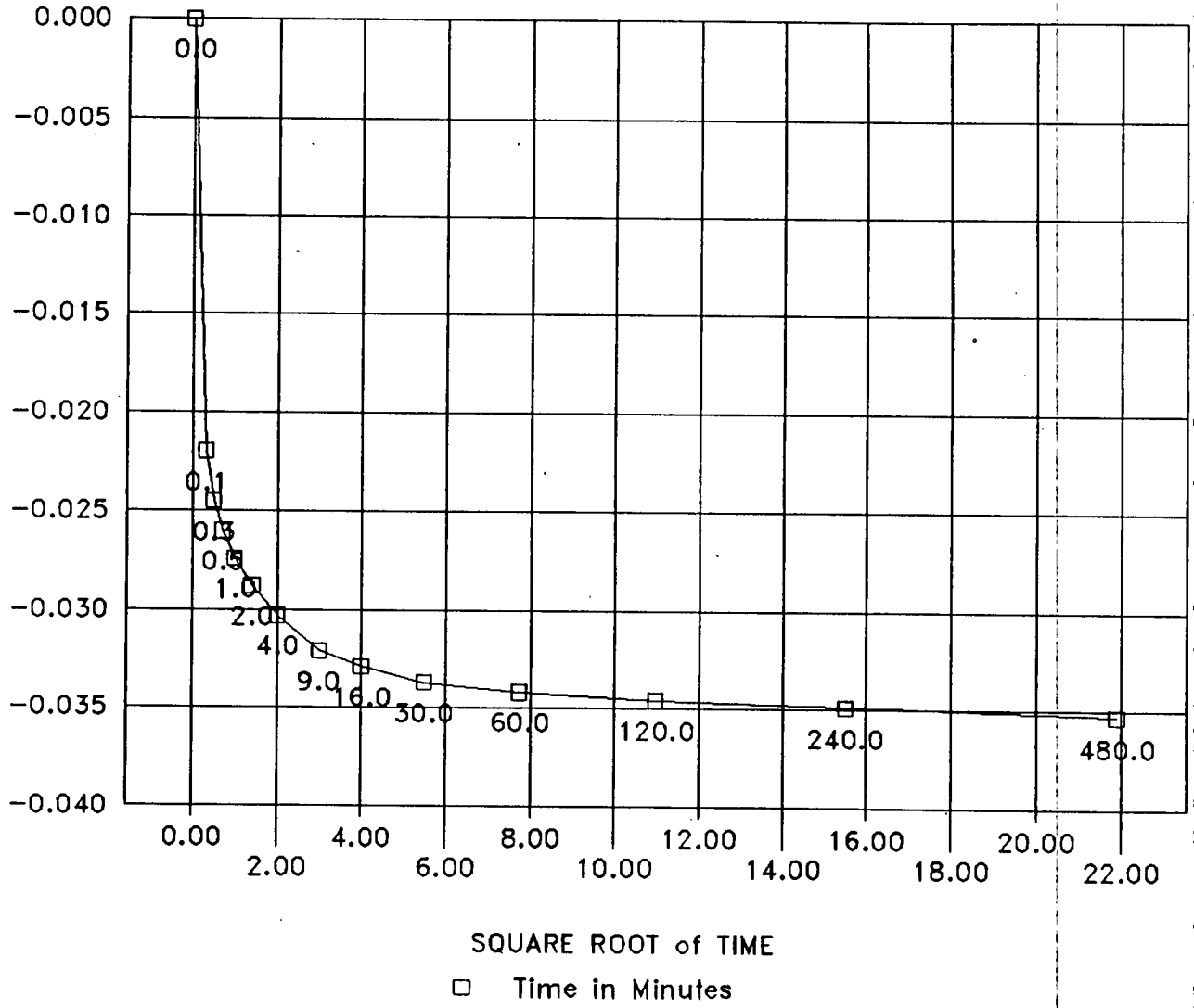
TIME READING DATA

G2-130,405080,15.0-17.0',1600 psf Load



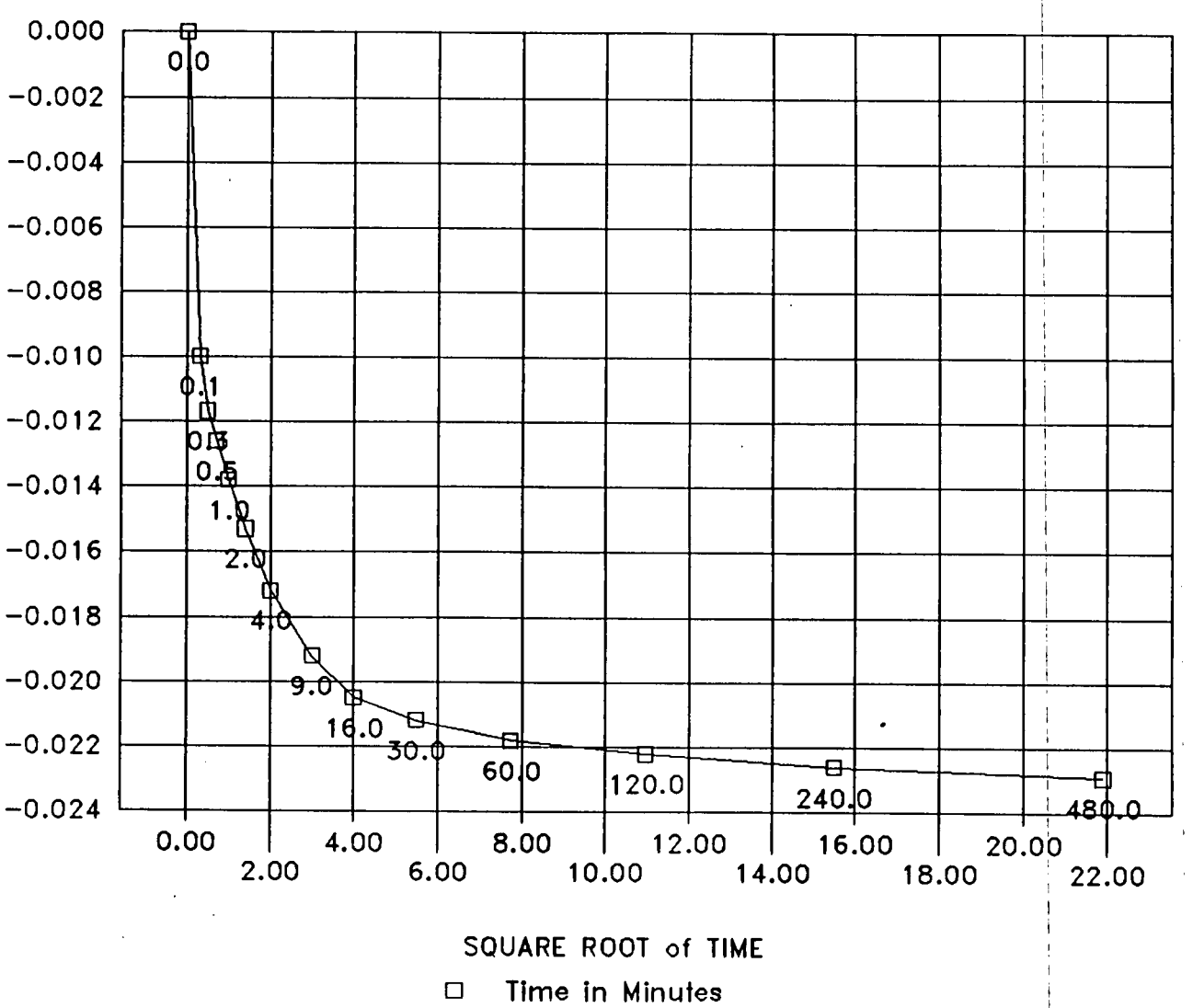
TIME READING DATA

G2-130,405080,15.0-17.0',3200 psf Load



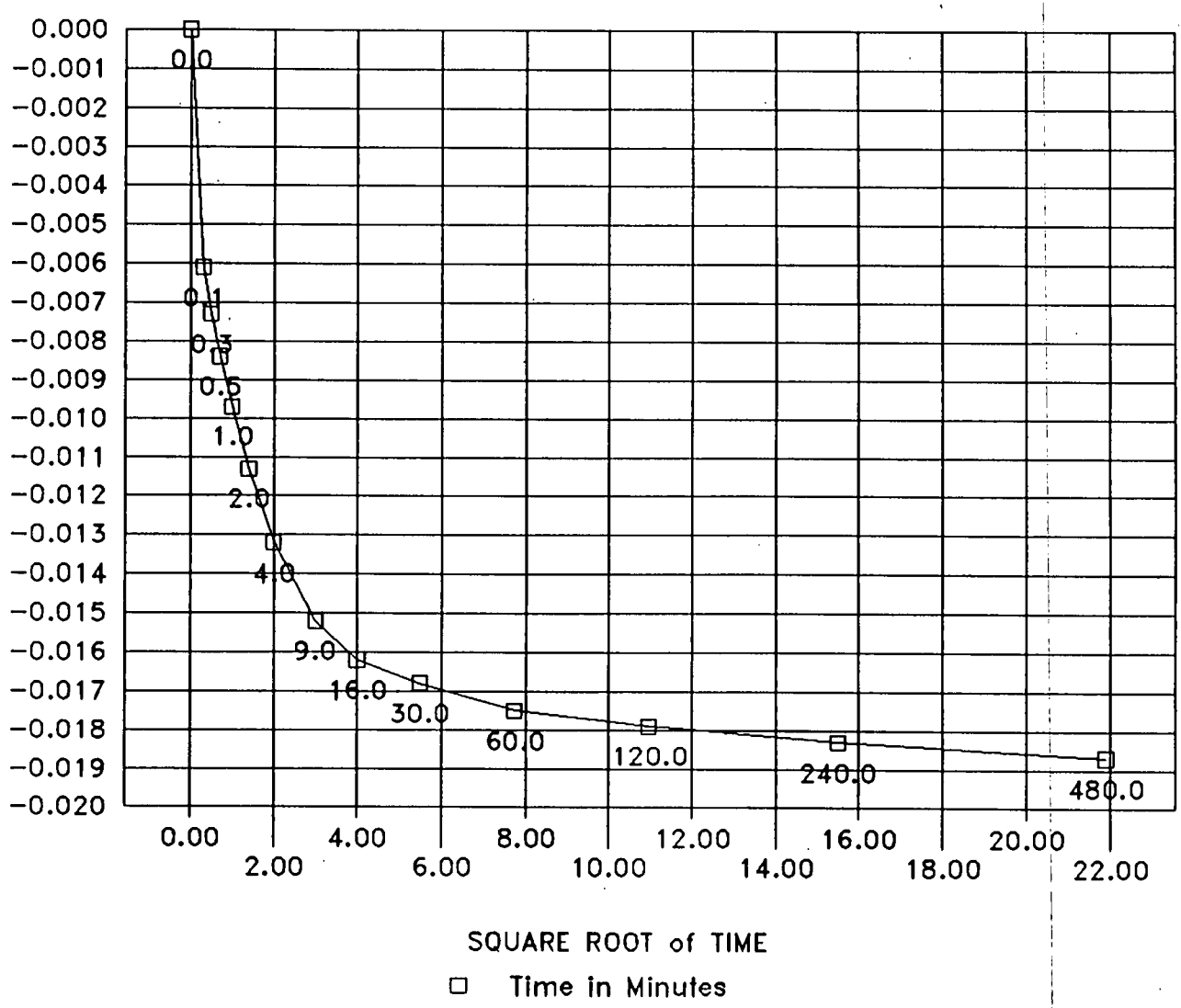
TIME READING DATA

G2-130,405080,15.0-17.0',6400 psf Load



TIME READING DATA

G2-130,405080,15.0-17.0',12800 psf Load



CONSOLIDATION TEST DATA SHEET

SACØ8Ø45 — 1
SACC8Ø95 — 2
SACE8Ø95 — 3
4

JOB SAIC / PARSONS 70140 JOB NO. 2059-13H

DATE SAMPLED 4-24-95 mm BORING NO. G2-130

TEST STARTED 7-2-95 BY WEB TEST FINISHED 7-10-95 BY DSR DEPTH 15-17'

SOIL TYPE SAMPLE 405080

CONSOLIDOMETER NO. ATT-8 INITIAL SAMPLE HEIGHT = 1.00" Do = 2.41"

MOISTURE & DENSITY DATA	BEFORE TEST	AFTER TEST
WT. OF RING(S) + SOIL g	207.96	204.83
WT. OF RING(S) ONLY g	44.87	44.87
WT. OF SOIL (NET)		
WET DENSITY IN LBS/CU. FT.*		
WT. OF WET SOIL + DISH NO. 562		
INT. OF DRY SOIL + DISH		
WT. OF LOST MOISTURE		
WT. OF DISH ONLY	3.53	3.53
WT. OF DRY SOIL		
MOISTURE AS % OF DRY WT.		
DRY DENSITY IN LBS/CU. FT.		

TEST INSTRUCTIONS

LOAD CYCLE 100 WET 200
400 800 1600 TR 3200
6400 TR 12800 TR 25600 Rebx2

SPECIAL INSTRUCTION AND NOTES

Dry Wt Soil + Ring + Pan = 412.

Remolded 95% + 4% omc

SpGr = 2.79

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOLIDATION
7-2-95	1043	0	100			
	1053	10		.0000		
			WET			
	1055	1		-.0002		
	1056	2		-.0002		
	1202			-.0002		-.0002
			200			
	1203	1		.0010		
	1204	2		.0011		
	1304			.0018		
7-3-95	0718			.0022		.0021
			400			
	0719	1		.0041		
	0720	2		.0043		
	0848			.0053		
	1037			.0055		.0049
			800			
	1038	1		.0098		
	1039	2		.0103		
	1144			.0119		
	1401			.0123		
	1521			.0124		
	1624			.0124		
	1728			.0125		
7-4-95	1016			.0126		.0114
			1600			
		.1		.0170		
		.25		.0191		
		.5		.0195		
	1017	1		.0205		

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOLIDATION
7-4-95	1018	2	1600 cont	.0216		
	1020	4		.0226		
	1025	9		.0236		
	1032	16		.0241		
	1046	30		.0246		
	1116	60		.0251		
	1216	120		.0254		
	1416	240		.0257		
	1816	480		.0260		
7-5-95	0745			.0261		.0240
			3200			
		.1		.0481		
		.25		.0506		
		.5		.0521		
	0746	1		.0535		
	0747	2		.0549		
	0749	4		.0564		
	0754	9		.0582		
	0801	16		.0590		
	0815	30		.0598		
	0845	60		.0603		
	0945	120		.0607		
	1145	240		.0610		
	1545	480		.0614		
7-6-95	0728			.0615		.0580
			6400			
		.1		.0715		
		.25		.0732		
		.5		.0741		
	0724	1		.0753		

ADVANCED TERRA TESTING

713 CONTINUED ON REVERSE SIDE

G2-130
15-17'
405080

CONSOLIDATION TEST DATA SHEET (CONTINUED)

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOLIDATION
7-6-95	0724	2	6400 (cont)	.0768		
	0726	4		.0787		
	0731	9		.0807		
	0738	16		.0820		
	0752	30		.0827		
	0822	60		.0833		
	0922	120		.0837		
	1122	240		.0841		
	1522	480		.0844		
7-7-95	0727			.0847		.0797
			12800			
		.1		.0908		
		.25		.0920		
		.5		.0931		
	0728	1		.0944		
	0729	2		.0960		
	0731	4		.0979		
	0736	9		.0999		
	0743	16		.1009		
	0757	30		.1015		
	0827	60		.1022		
	0927	120		.1026		
	1127	240		.1030		
	1527	480		.1034		
7-8-95	833			.1039		.0971
	834	1	25600	.1124		
	835	2		.1139		
	932			.1213		
	1116			.1221		
	1338			.1225		.1137
		Rebound				
			6400	.		
	1339	1		.1188		
	1340	2		.1187		
7-9-95	0957			.1183		.1101
			1600			
	1010	1		.1164		
	1011	2		.1160		
	1025			.1151		
	1110			.1148		
	1244			.1147		.1081
			400			
	1247	1		.1123		
	1248	2		.1118		
	1315			.1095		
	1452			.1088		
	1656			.1086		
	1854			.1085		.1032
			100			
	1857	1		.1075		
	1858	2		.1072		
	1942			.1045		
7-10-95	0707			.1026		
	0820			.1026		.0982

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOLIDATION

CONSOLIDATION TEST
ASTM D-2435

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13I

BORING NO.	G2-SB-4	SAMPLED	4-25-95 JC, BN
DEPTH	1.5-5.0'	TEST STARTED	6-29-95 CAL, REW
SAMPLE NO.	404615	TEST FINISHED	7-8-95 CAL
SOIL DESCR.	Fernald	CELL NUMBER	ATT-5
Note: Remolded to 95% MDD			
SAMPLE DIA.(in)	2.410	INITIAL HT.(in)	1.000

MOISTURE/DENSITY DATA	BEFORE TEST	AFTER TEST
Wt. Soil & Ring(s) (g)	194.6	194.0
Wt. Ring(s) (g)	46.4	46.4
Wt. Soil (g)	148.2	147.6
Wet Density PCF	123.8	136.8
Wt. Wet Soil & Pan (g)	152.0	151.4
Wt. Dry Soil & Pan (g)	125.8	125.8
Wt. Lost Moisture (g)	26.2	25.6
Wt. of Pan Only (g)	3.8	3.8
Wt. of Dry Soil (g)	122.0	122.0
Moisture Content %	21.5	21.0
Dry Density PCF	101.9	113.1

LOAD (PSF)	CONSOL. (IN.)
100	0.0000
100	-0.0036
200	-0.0029
400	-0.0002
800	0.0065
1600	0.0164
3200	0.0360
6400	0.0702
19200	0.1369
25600	0.1464
6400	0.1402
1600	0.1250
400	0.1116
100	0.0990

	LOAD (PSF)	LOG p	CONSOL. (IN.)	DEFL. (IN.)	VOID RATIO e
	100	2.000	0.0000	0.0000	0.6545
Saturate	100	2.000	-0.0036	0.0036	0.6604
	200	2.301	-0.0029	0.0029	0.6593
	400	2.602	-0.0002	0.0002	0.6548
	800	2.903	0.0065	-0.0065	0.6437
	1600	3.204	0.0164	-0.0164	0.6273
	3200	3.505	0.0360	-0.0360	0.5949
	6400	3.806	0.0702	-0.0702	0.5383
	19200	4.283	0.1369	-0.1369	0.4280
	25600	4.408	0.1464	-0.1464	0.4122
	6400	3.806	0.1402	-0.1402	0.4225
	1600	3.204	0.1250	-0.1250	0.4477
	400	2.602	0.1116	-0.1116	0.4698
	100	2.000	0.0990	-0.0990	0.4907

% Saturation	88.6
Sp. Gr. (g/cc)	2.700
Init. Ht. Solids (cm)	1.535
Init. Ht. Voids (cm)	1.005
Init. Void Ratio	0.6545

Data entry by: NAA Date: 7-11-95
Data checked by: CJ Date: 8-12-95
FileName:SAC01595

ADVANCED TERRA TESTING, INC.

TIME READING DATA

G2-SB-4
1.5-5.0'

1600 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.0126	0.0000
0.1	0.32	0.0163	-0.0037
0.3	0.50	0.0168	-0.0042
0.5	0.71	0.0172	-0.0046
1.0	1.00	0.0178	-0.0052
2.0	1.41	0.0186	-0.0060
4.0	2.00	0.0192	-0.0066
9.0	3.00	0.0199	-0.0073
16.0	4.00	0.0203	-0.0077
30.0	5.48	0.0208	-0.0082
60.0	7.75	0.0212	-0.0086
120.0	10.95	0.0217	-0.0091
240.0	15.49	0.0221	-0.0095
480.0	21.91	0.0228	-0.0102

3200 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.0235	0.0000
0.1	0.32	0.0310	-0.0075
0.3	0.50	0.0327	-0.0092
0.5	0.71	0.0341	-0.0106
1.0	1.00	0.0356	-0.0121
2.0	1.41	0.0370	-0.0135
4.0	2.00	0.0383	-0.0148
9.0	3.00	0.0397	-0.0162
16.0	4.00	0.0405	-0.0170
30.0	5.48	0.0413	-0.0178
60.0	7.75	0.0420	-0.0185
120.0	10.95	0.0426	-0.0191
240.0	15.49	0.0432	-0.0197
480.0	21.91	0.0437	-0.0202

6400 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.0443	0.0000
0.1	0.32	0.0601	-0.0158
0.3	0.50	0.0626	-0.0183
0.5	0.71	0.0647	-0.0204
1.0	1.00	0.0666	-0.0223
2.0	1.41	0.0686	-0.0243
4.0	2.00	0.0703	-0.0260
9.0	3.00	0.0726	-0.0283
16.0	4.00	0.0741	-0.0298
30.0	5.48	0.0755	-0.0312
60.0	7.75	0.0768	-0.0325
120.0	10.95	0.0778	-0.0335
254.0	15.94	0.0787	-0.0344
480.0	21.91	0.0792	-0.0349

19200 psf Load

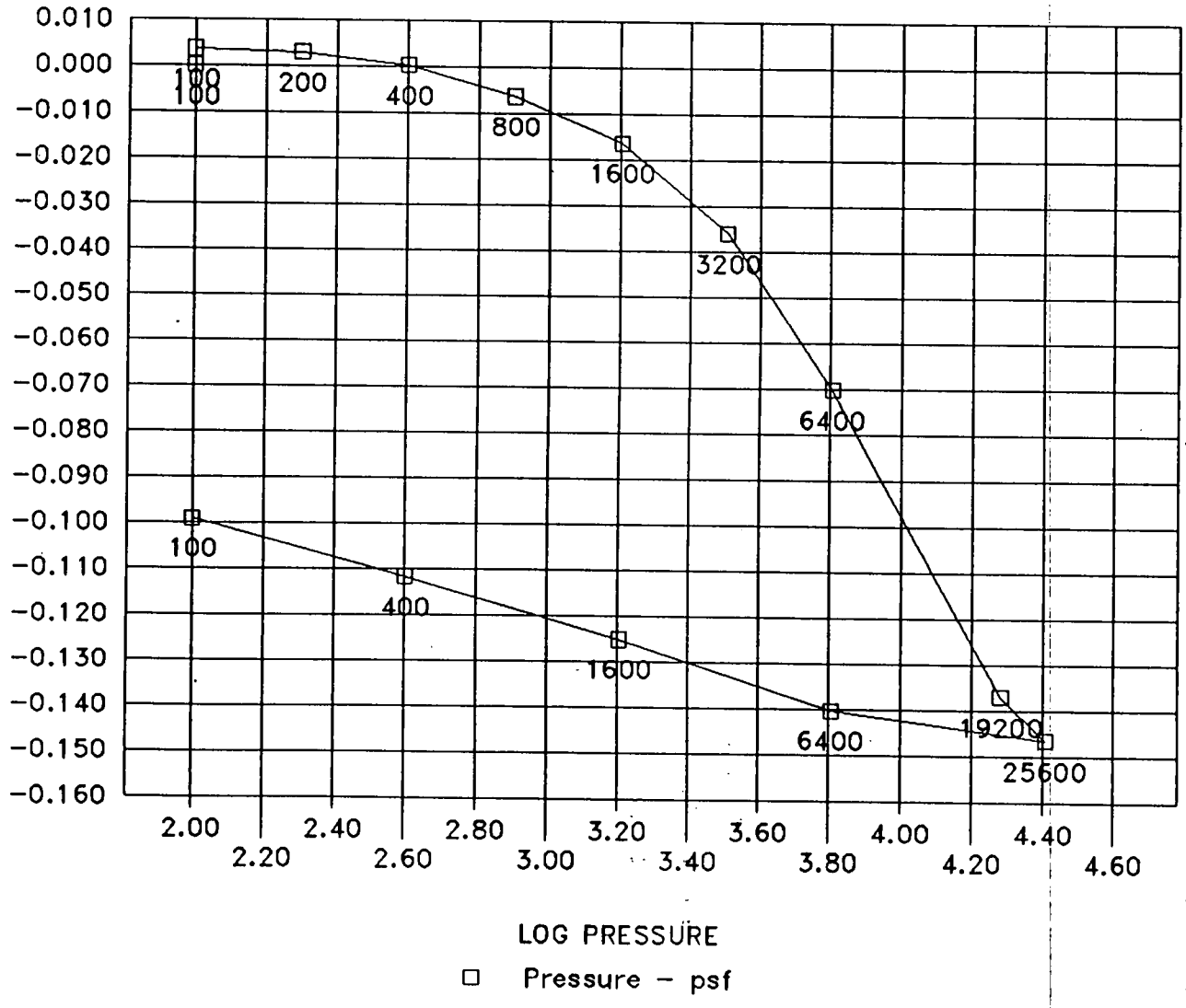
Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.0800	0.0000
0.1	0.32	0.1046	-0.0246
0.3	0.50	0.1060	-0.0260
0.5	0.71	0.1075	-0.0275
1.0	1.00	0.1097	-0.0297
2.0	1.41	0.1124	-0.0324
4.0	2.00	0.1162	-0.0362
10.0	3.16	0.1232	-0.0432
16.0	4.00	0.1284	-0.0484
30.0	5.48	0.1343	-0.0543
60.0	7.75	0.1413	-0.0613
120.0	10.95	0.1455	-0.0655
240.0	15.49	0.1471	-0.0671
480.0	21.91	0.1480	-0.0680

Data entry by: NAA Date: 7-11-95
Data checked by: MGJ Date: 7-11-95
FileName:SAC01595

ADVANCED TERRA TESTING, INC.

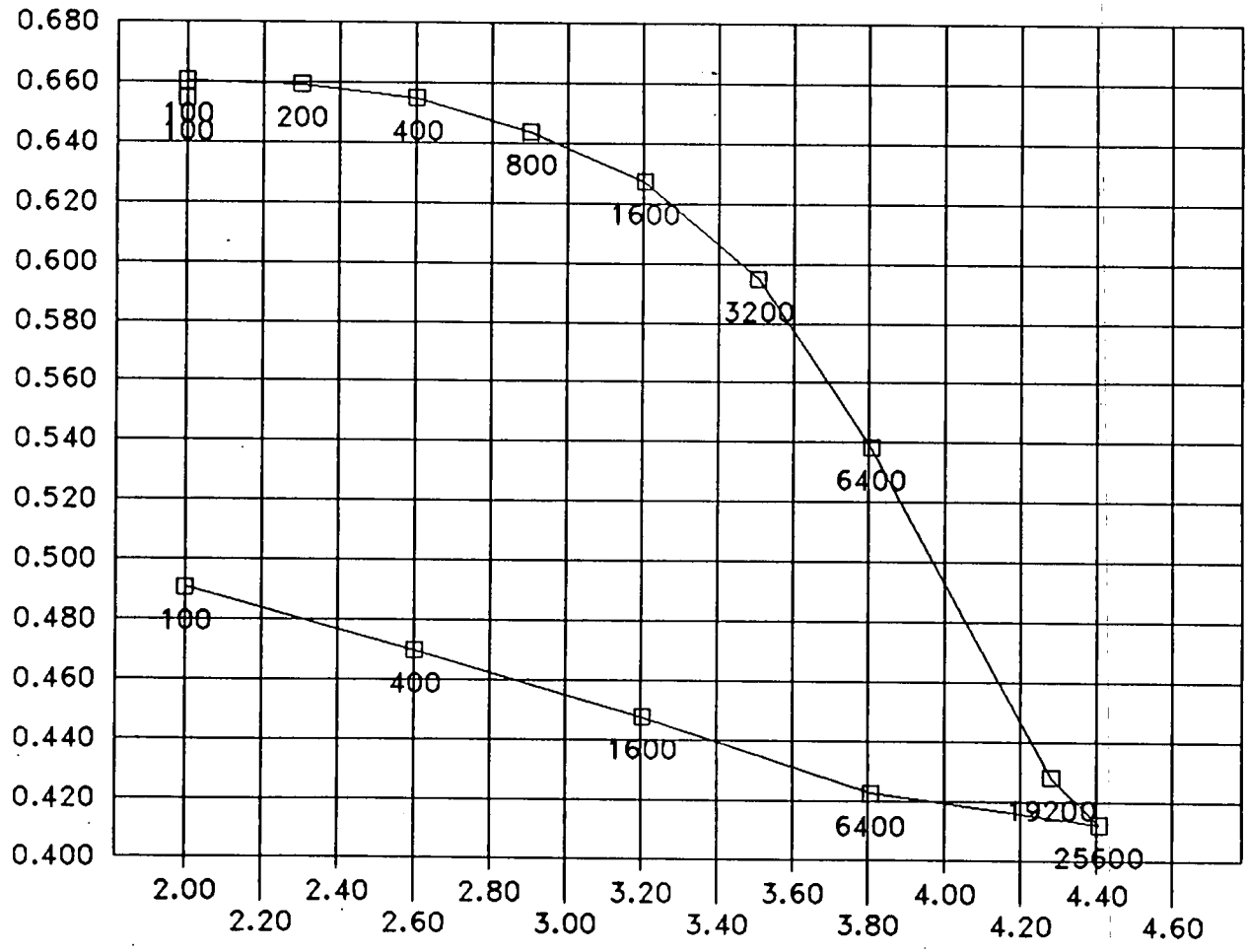
CONSOLIDATION TEST DATA

G2-SB-4,404615,1.5-5.0'



CONSOLIDATION TEST DATA

G2-SB-4,404615,1.5-5.0'



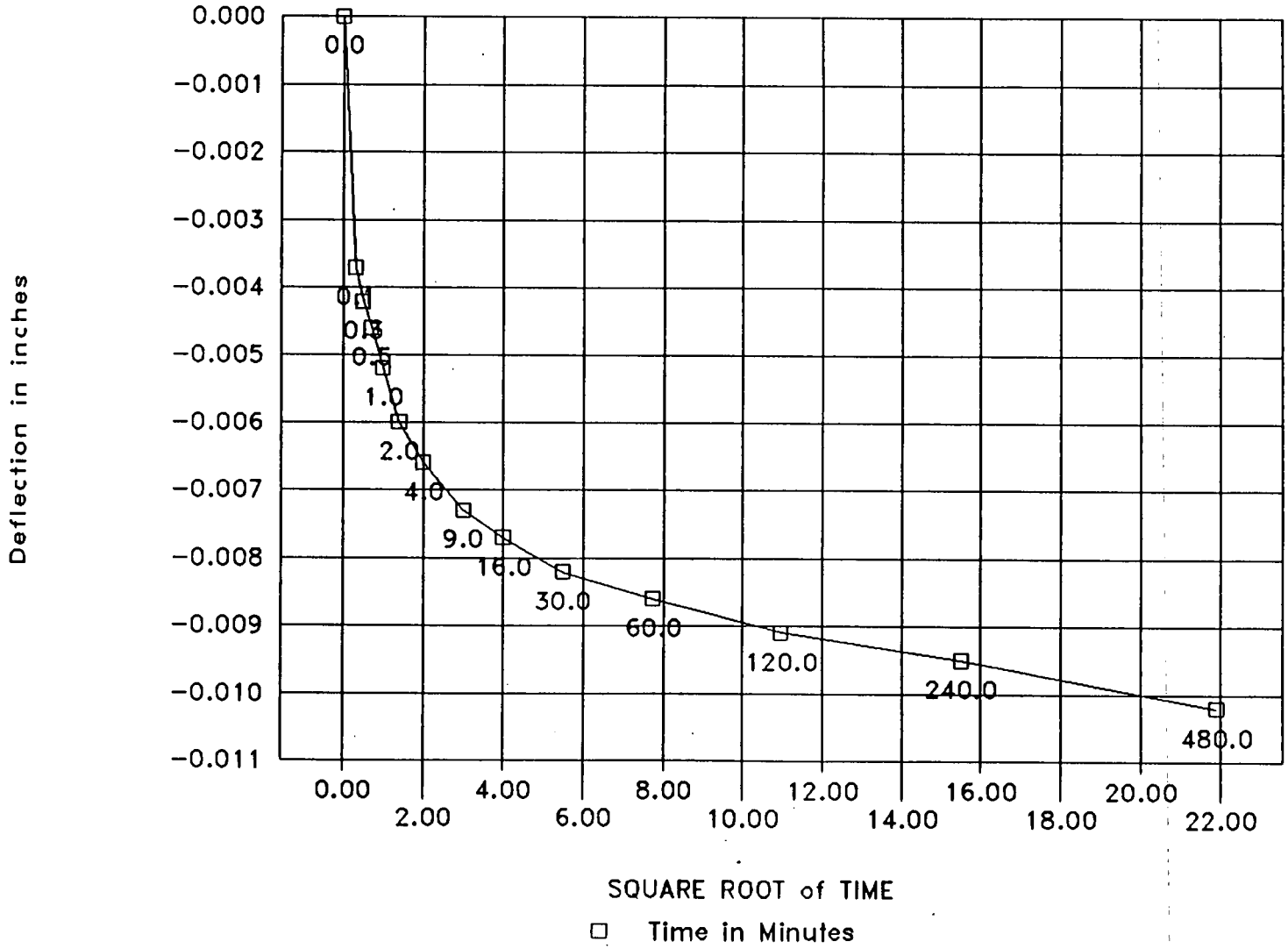
718

000782

474

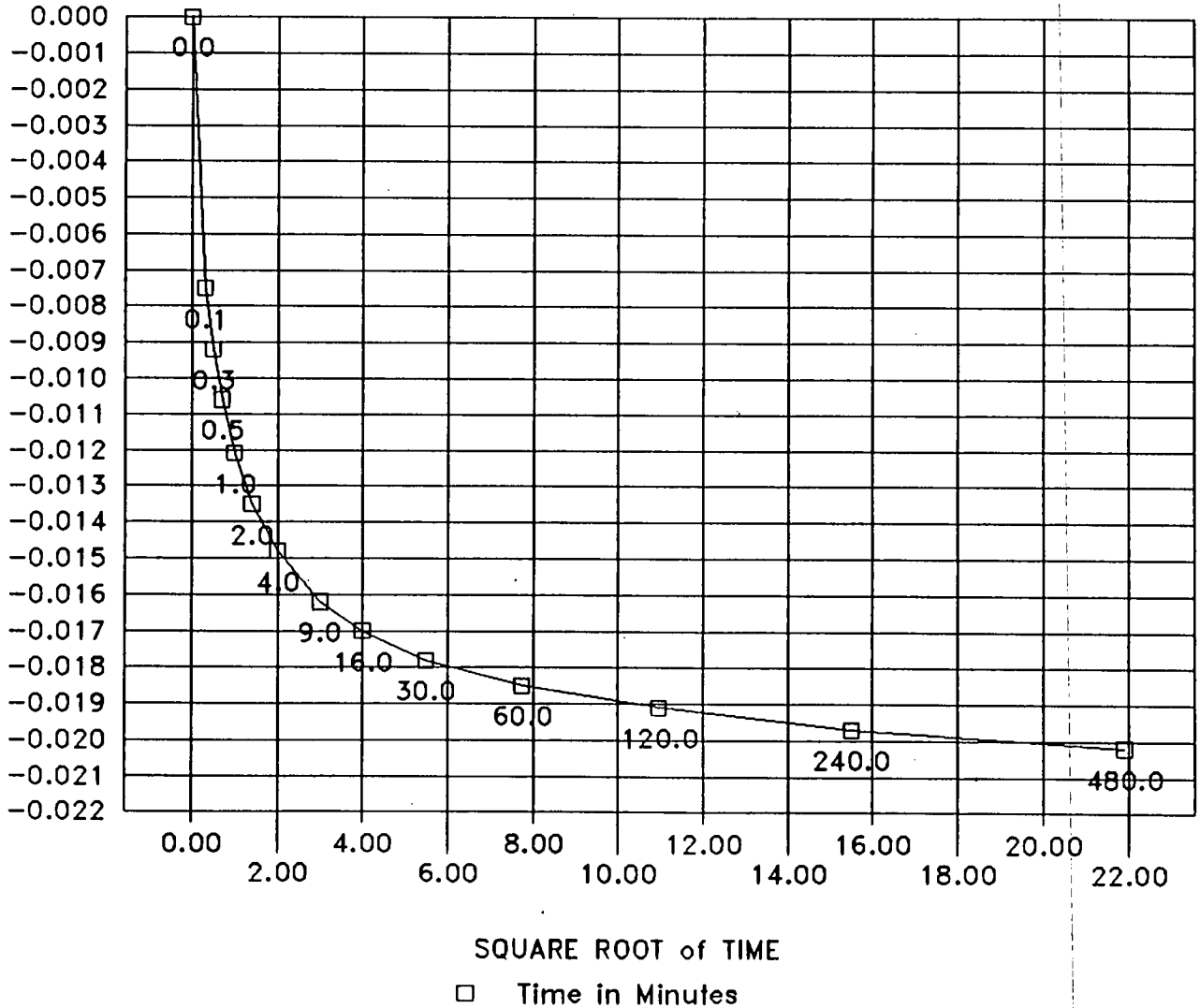
TIME READING DATA

G2-SB-4,404615,1.5-5.0',1600 psf Load



TIME READING DATA

G2-SB-4,404615,1.5-5.0',3200 psf Load



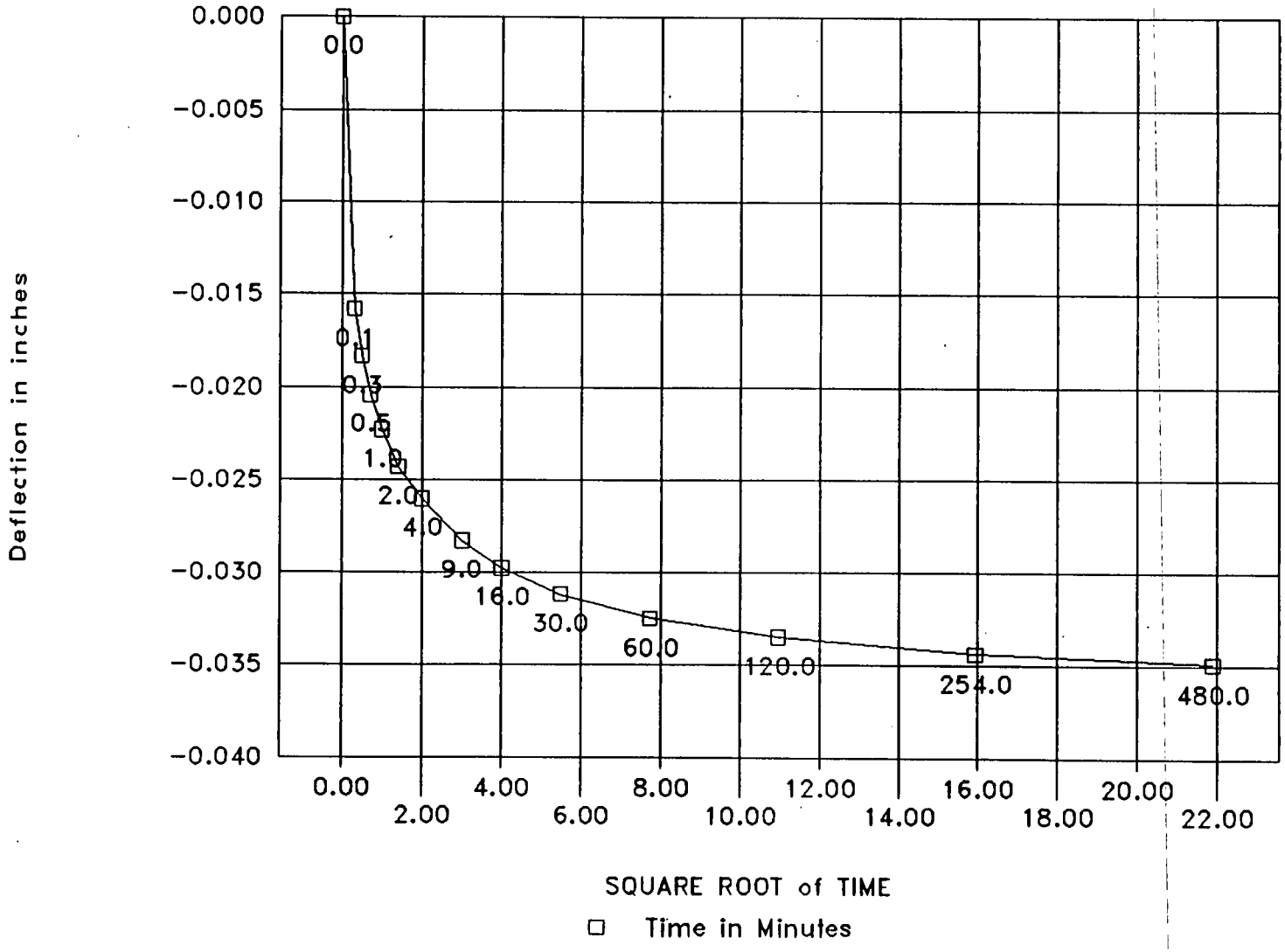
720

000784

474

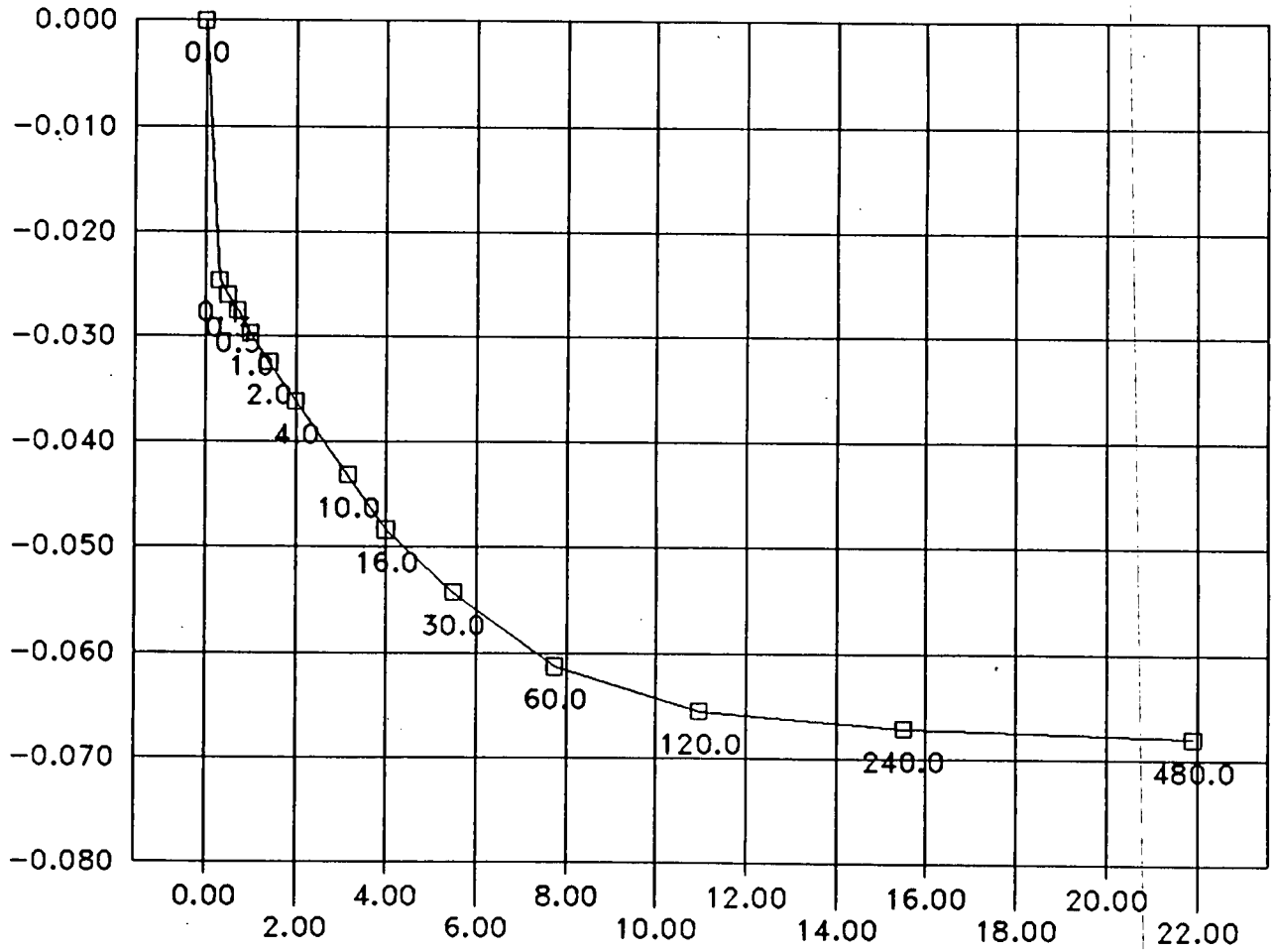
TIME READING DATA

G2-SB-4,404615,1.5-5.0',6400 psf Load



TIME READING DATA

G2-SB-4,404615,1.5-5.0',19200 psf Load



□ Time in Minutes

CONSOLIDATION TEST DATA SHEET

SAC01595 SAC11595 2
SAC01595 3
SAC01595 4

474 PAGE 1 OF 2

JOB SAIC/PARSONS PO 140 Fernald JOB NO. 2059-13 I

DATE SAMPLED 4-25-95 JC, GW BORING NO. G2-SB-4

TEST STARTED 6-29-95 BY CAL/REW TEST FINISHED 7-8-95 BY CAL DEPTH 1.5-5' #404615

SOIL TYPE CONS R.C. 95%

CONSOLIDOMETER NO. ATT-5 INITIAL SAMPLE HEIGHT 1.00" D = 2.41"

MOISTURE & DENSITY DATA		BEFORE TEST	AFTER TEST
WT. OF RING(S)+ SOIL	g	194.60	194.01
WT. OF RING(S) ONLY	g	46.41	
WT. OF SOIL (NET)			
WET DENSITY IN LBS/CU. FT.*			
WT. OF WET SOIL + DISH NO. 20 Z			
WT. OF DRY SOIL + DISH			
WT. OF LOST MOISTURE			
WT. OF DISH ONLY	g	3.79	
WT. OF DRY SOIL			
MOISTURE AS % OF DRY WT.			
DRY DENSITY IN LBS/CU. FT.			

TEST INSTRUCTIONS

LOAD CYCLE 100 WET 200
400 800 1600 TR 3200 TR
6400 TR 12800 TR 25600
REBOUND x 2

SPECIAL INSTRUCTION AND NOTES
Dry wt. Soil + Pan + Ring = 172.20
Con 95
SpGr = 2.70

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOLIDATION
6-29-95			100			
	1354	1		.0028		
	1355	2		.0030		
	1403	10		.0037	.0000	(initial zero) REW 6/29
			wet	.0		
	1404	1		.0027		
	1405	2		.0025		
	1523			.0004		
	1656			.0001		-.0036
			200			
	1657	1		.0008		
	1658	2		.0009		
6-30-95	718			.0012	-.0025	-.0029
	719	1	400	.0029		
	720	2		.0031		
	0837			.0040		
	0950			.0045		
	1208			.0047	.0010	-.0002
			800			
	1209	1		.0097		
	1210	2		.0100		
	1358			.0116		
	1527			.0119		
7-1-95	733			.0126	.0089	.0065

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOLIDATION
7-1-95		.1	1600	.0163		
		.25		.0168		
		.5		.0172		
	734	1		.0178		
	735	2		.0186		
	737	4		.0192		
	742	9		.0199		
	749	16		.0203		
	803	30		.0208		
	833	60		.0212		
	933	120		.0217		
	1133	240		.0221		
	1533	480		.0228		
7-2-95	0905			.0235	.0199	.0164
			3200			
	0917	.1		.0310		
		.25		.0327		
		.5		.0341		
	0918	1		.0356		
	0919	2		.0370		
	0921	4		.0383		
	0926	9		.0397		
	0933	16		.0405		
	0947	30		.0413		
	1017	60		.0420		
	1117	120		.0426		
	1317	240		.0432		
	1717	480		.0437		
7-3-95	0729			.0443	.0406	.0360

ADVANCED TERRA TESTING

723 CONTINUED ON REVERSE SIDE

CONSOLIDATION TEST DATA SHEET (CONTINUED)

DATE	TIME	E-LAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL UNDER THIS LOAD	TOTAL CONSOL-IDATION
7-3-95	0729	.1	6400	.0601		
		.25		.0626		
		.5		.0647		
	0730	1		.0666		
	0732	2		.0686		
	0733	4		.0703		
	0738	9		.0726		
	0745	16		.0741		
	0759	30		.0755		
	0829	60		.0768		
	0929	120		.0778		
~~1143~~	~~1129~~	~~240~~	~~0254~~	~~.0787~~		
7-3-95	1529	480		.0792		
7-4-95	10~~1~~28			.0800	.0763	.0702
			~~12860~~	19200	*	NOTE
		.1		.1046		
		.25		.1060		
	10~~1~~30	.5		.1075		
~~0829~~	~~0730~~	1		.1097		
	10~~1~~31	2		.1124		
	10~~1~~33	4		.1162		
10~~1~~39	~~0938~~	~~9~~	10	.1232		
	1046	16		.1284		
	1058	30		.1343		
	1128	60		.1413		
	1228	120		.1455		
	1428	240		.1471		
	1828	480		.1480		
7-5-95	0759			.1488	.1451	.1369
			25600			
	0800	1		.1504		
	0801	2		.1510		
	0813			.1565		
	0954			.1591		
	1119			.1601		
	1318			.1609		
	1448			.1612	.1575	.1464
		REBOUND	6400			
	1449	1		.1566		
	1450	2		.1562		
	1555			.1526		
	1754			.1523	.1486	.1402
			1600			
	1755	1		.1490		
	1756	2		.1483		
7-6-95	0710			.1353		
	0811			.1352	.1315	.1250
			400			
	0812	1		.1332		
	0813	2		.1328		
	0916			.1272		
	1047			.1242		
	1215			.1222		
	1344			.1211		
	1513			.1203		
	1641			.1199		
7-7-95	0724			.1180		

DATE	TIME	E-LAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL UNDER THIS LOAD	TOTAL CONSOL-IDATION
~~7-7-95~~	0839		400 (cont)	.1179	.1162	.1116
			100			
	0840	1		.1165		
	0841	2		.1164		
	0925			.1147		
	1327			.1109		
	1448			.1102		
	1550			.1098		
	1653			.1094		
	1800			.1090		
7-8-95	837			.1067		
	1111			.1065	.1028	.0990

CONSOLIDATION TEST
ASTM D-2435

CLIENT SAIC/Parsons PO 140 JOB NO. 2059-13I

BORING NO.	G2-SB-7	SAMPLED	4-26-95 JC,BN
DEPTH	1.5-5.0'	TEST STARTED	6-22-95 CAL
SAMPLE NO.	404632	TEST FINISHED	7-2-95 WEB
SOIL DESCR.	Fernald	CELL NUMBER	8
Note: Remolded to 95% MDD			
SAMPLE DIA.(in)	2.410	INITIAL HT.(in)	1.000

MOISTURE/DENSITY DATA	BEFORE TEST	AFTER TEST
Wt. Soil & Ring(s) (g)	198.8	196.2
Wt. Ring(s) (g)	46.3	46.3
Wt. Soil (g)	152.6	149.9
Wet Density PCF	127.4	135.7
Wt. Wet Soil & Pan (g)	156.3	153.7
Wt. Dry Soil & Pan (g)	128.1	128.1
Wt. Lost Moisture (g)	28.2	25.6
Wt. of Pan Only (g)	3.8	3.8
Wt. of Dry Soil (g)	124.3	124.3
Moisture Content %	22.7	20.6
Dry Density PCF	103.8	112.5

LOAD (PSF)	CONSOL. (IN.)
100	0.0000
100	-0.0024
200	-0.0016
400	0.0006
800	0.0071
1600	0.0176
3200	0.0323
6400	0.0593
12800	0.0933
25600	0.1296
6400	0.1207
1600	0.1069
400	0.0891
100	0.0744

	LOAD (PSF)	LOG p	CONSOL. (IN.)	DEFL. (IN.)	VOID RATIO e
	100	2.000	0.0000	0.0000	0.6357
SATURATE	100	2.000	-0.0024	0.0024	0.6397
	200	2.301	-0.0016	0.0016	0.6384
	400	2.602	0.0006	-0.0006	0.6348
	800	2.903	0.0071	-0.0071	0.6241
	1600	3.204	0.0176	-0.0176	0.6070
	3200	3.505	0.0323	-0.0323	0.5829
	6400	3.806	0.0593	-0.0593	0.5387
	12800	4.107	0.0933	-0.0933	0.4831
	25600	4.408	0.1296	-0.1296	0.4238
	6400	3.806	0.1207	-0.1207	0.4383
	1600	3.204	0.1069	-0.1069	0.4609
	400	2.602	0.0891	-0.0891	0.4900
	100	2.000	0.0744	-0.0744	0.5140

% Saturation	97.2
Sp. Gr. (g/cc)	2.720
Init. Ht. Solids (cm)	1.553
Init. Ht. Voids (cm)	0.987
Init. Void Ratio	0.6357

Data entry by: SR Date: 7-3-95
Data checked by: CJ Date: 8-12-95
FileName:SAC0632

ADVANCED TERRA TESTING, INC.

TIME READING DATA

G2-SB-7
1.5-5.0'

1600 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.0083	0.0000
0.1	0.32	0.0118	-0.0035
0.3	0.50	0.0124	-0.0041
0.5	0.71	0.0128	-0.0045
1.0	1.00	0.0133	-0.0050
2.0	1.41	0.0138	-0.0055
4.0	2.00	0.0143	-0.0060
9.0	3.00	0.0149	-0.0066
16.0	4.00	0.0156	-0.0073
30.0	5.48	0.0161	-0.0078
60.0	7.75	0.0169	-0.0086
120.0	10.95	0.0176	-0.0093
240.0	15.49	0.0182	-0.0099
480.0	21.91	0.0187	-0.0104

3200 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.0197	0.0000
0.1	0.32	0.0243	-0.0046
0.3	0.50	0.0254	-0.0057
0.5	0.71	0.0260	-0.0063
1.0	1.00	0.0267	-0.0070
2.0	1.41	0.0276	-0.0079
4.0	2.00	0.0284	-0.0087
9.0	3.00	0.0296	-0.0099
16.0	4.00	0.0305	-0.0108
30.0	5.48	0.0315	-0.0118
60.0	7.75	0.0327	-0.0130
120.0	10.95	0.0338	-0.0141
240.0	15.49	0.0346	-0.0149
480.0	21.91	0.0352	-0.0155

6400 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.0358	0.0000
0.1	0.32	0.0441	-0.0083
0.3	0.50	0.0457	-0.0099
0.5	0.71	0.0471	-0.0113
1.0	1.00	0.0484	-0.0126
2.0	1.41	0.0499	-0.0141
4.0	2.00	0.0514	-0.0156
9.0	3.00	0.0536	-0.0178
16.0	4.00	0.0555	-0.0197
30.0	5.48	0.0574	-0.0216
60.0	7.75	0.0599	-0.0241
120.0	10.95	0.0618	-0.0260
240.0	15.49	0.0630	-0.0272
480.0	21.91	0.0637	-0.0279

12800 psf Load

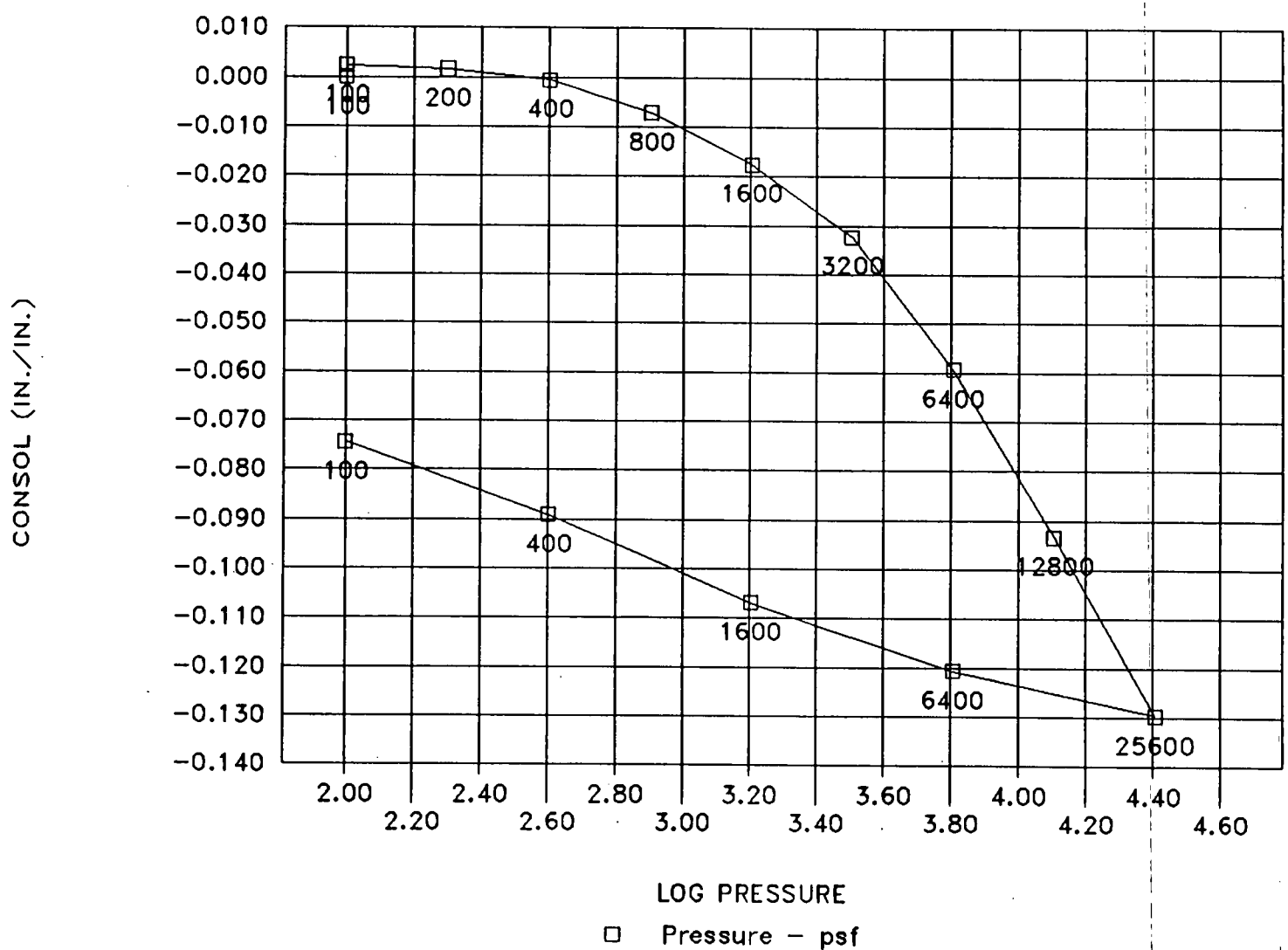
Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.0643	0.0000
0.1	0.32	0.0729	-0.0086
0.3	0.50	0.0742	-0.0099
0.5	0.71	0.0752	-0.0109
1.0	1.00	0.0766	-0.0123
2.0	1.41	0.0782	-0.0139
4.0	2.00	0.0802	-0.0159
9.0	3.00	0.0832	-0.0189
16.0	4.00	0.0859	-0.0216
30.0	5.48	0.0899	-0.0256
60.0	7.75	0.0941	-0.0298
120.0	10.95	0.0972	-0.0329
240.0	15.49	0.0987	-0.0344
480.0	21.91	0.0995	-0.0352

Data entry by: SR Date: 7-3-95
Data checked by: GJ Date: 7-5-95
FileName: SAC0632

ADVANCED TERRA TESTING, INC.

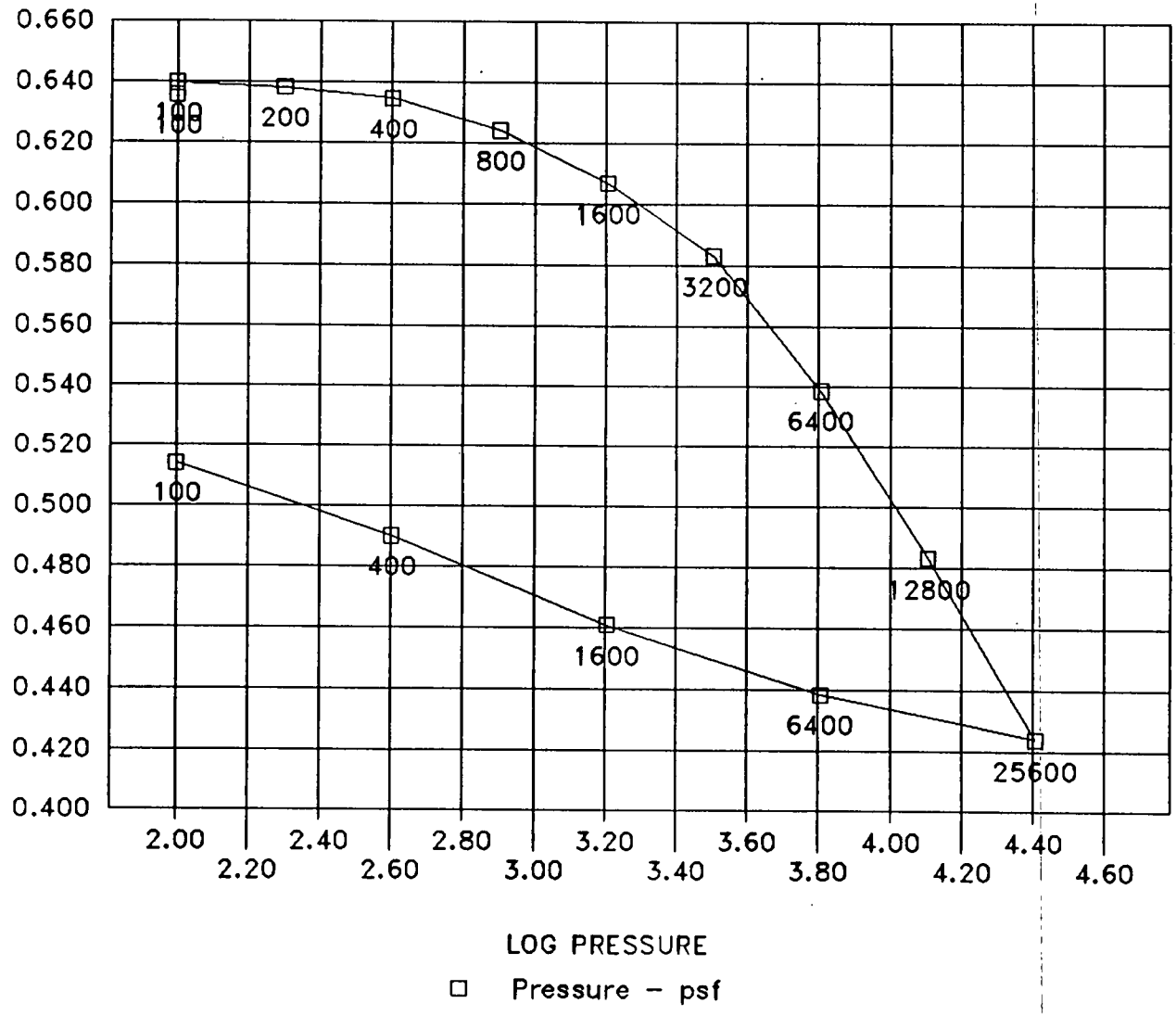
CONSOLIDATION TEST DATA

G2-SB-7,404632,1.5-5.0'



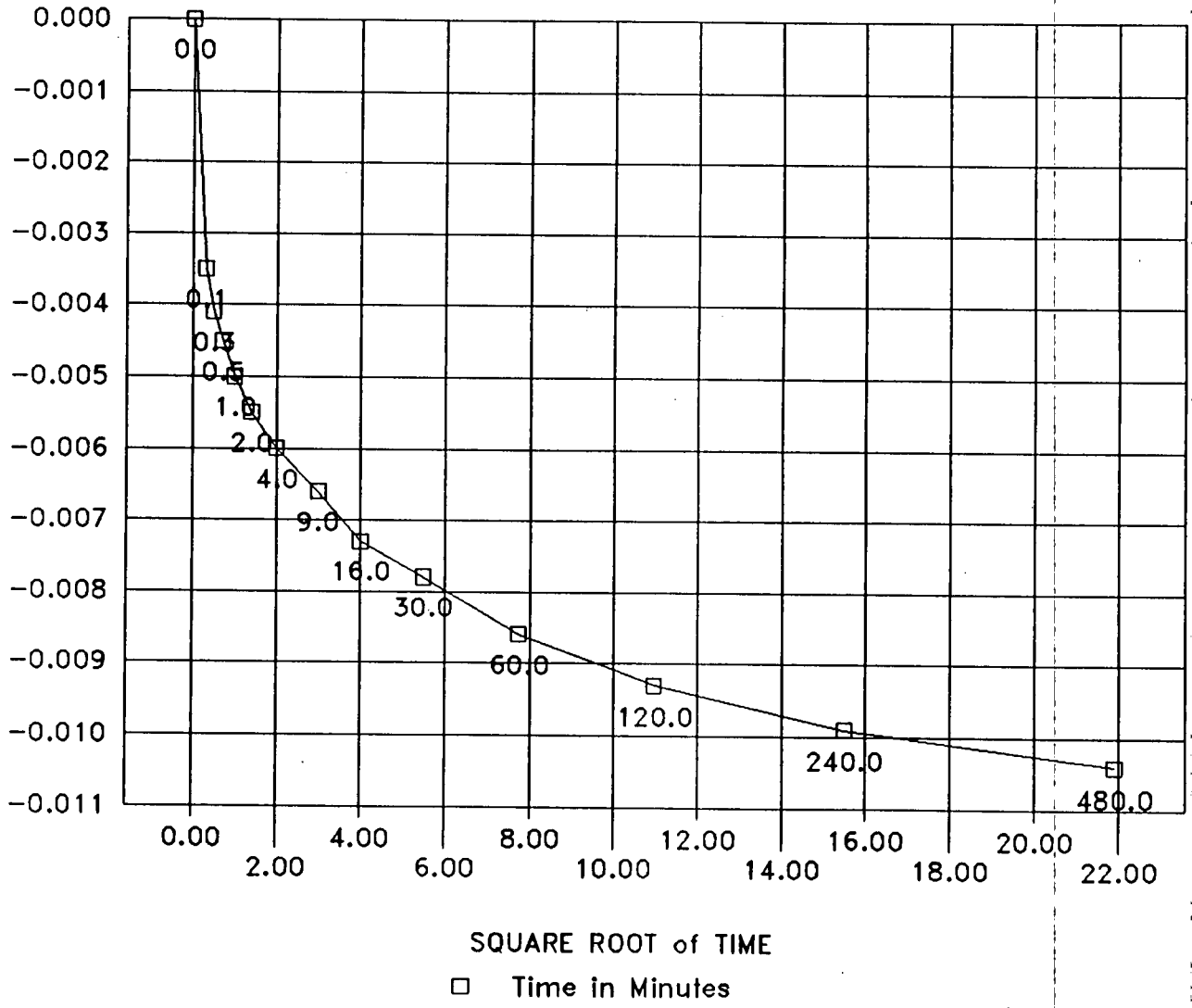
CONSOLIDATION TEST DATA

G2-SB-7,404632,1.5-5.0'



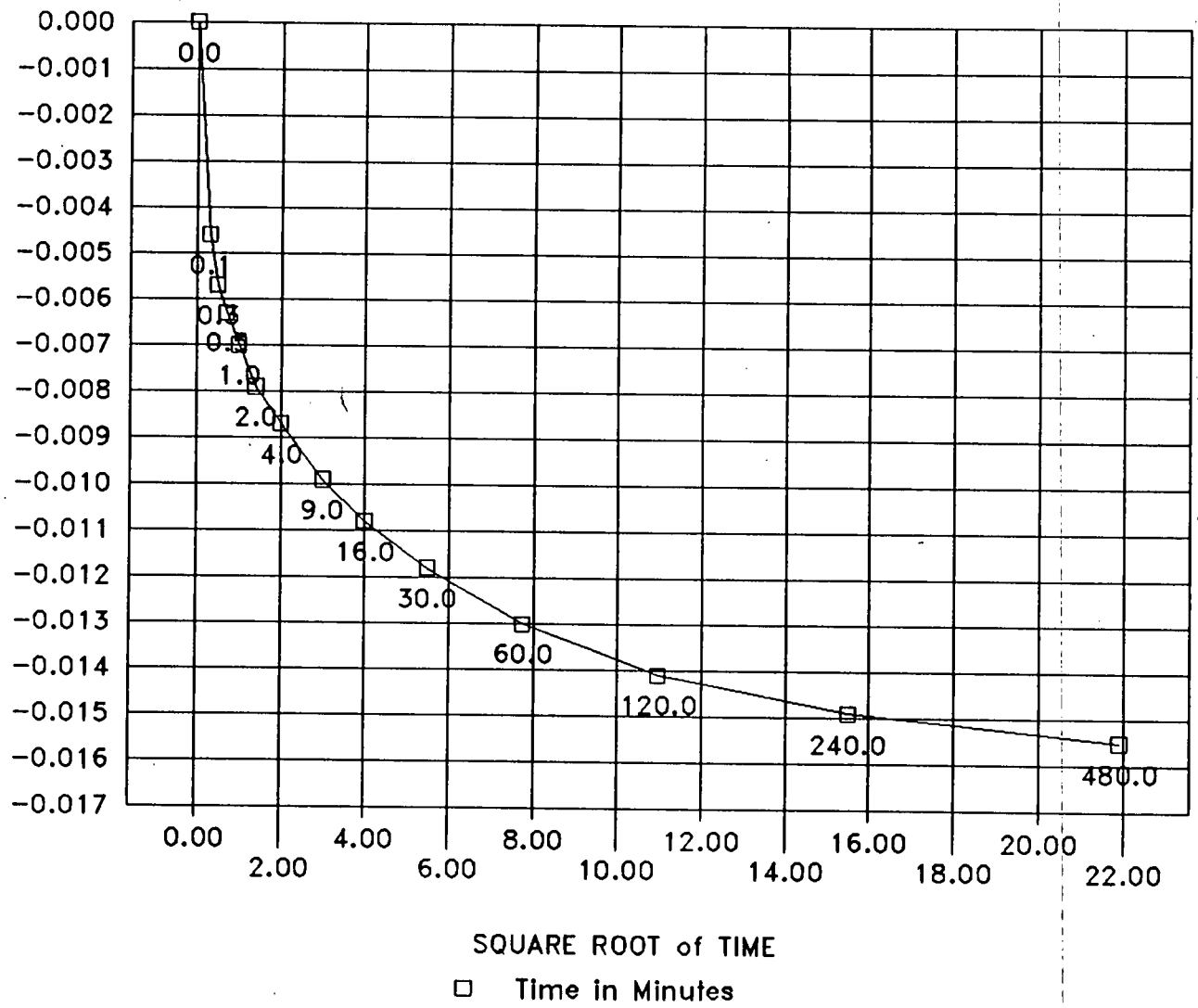
TIME READING DATA

G2-SB-7,404632,1.5-5.0',1600 psf Load



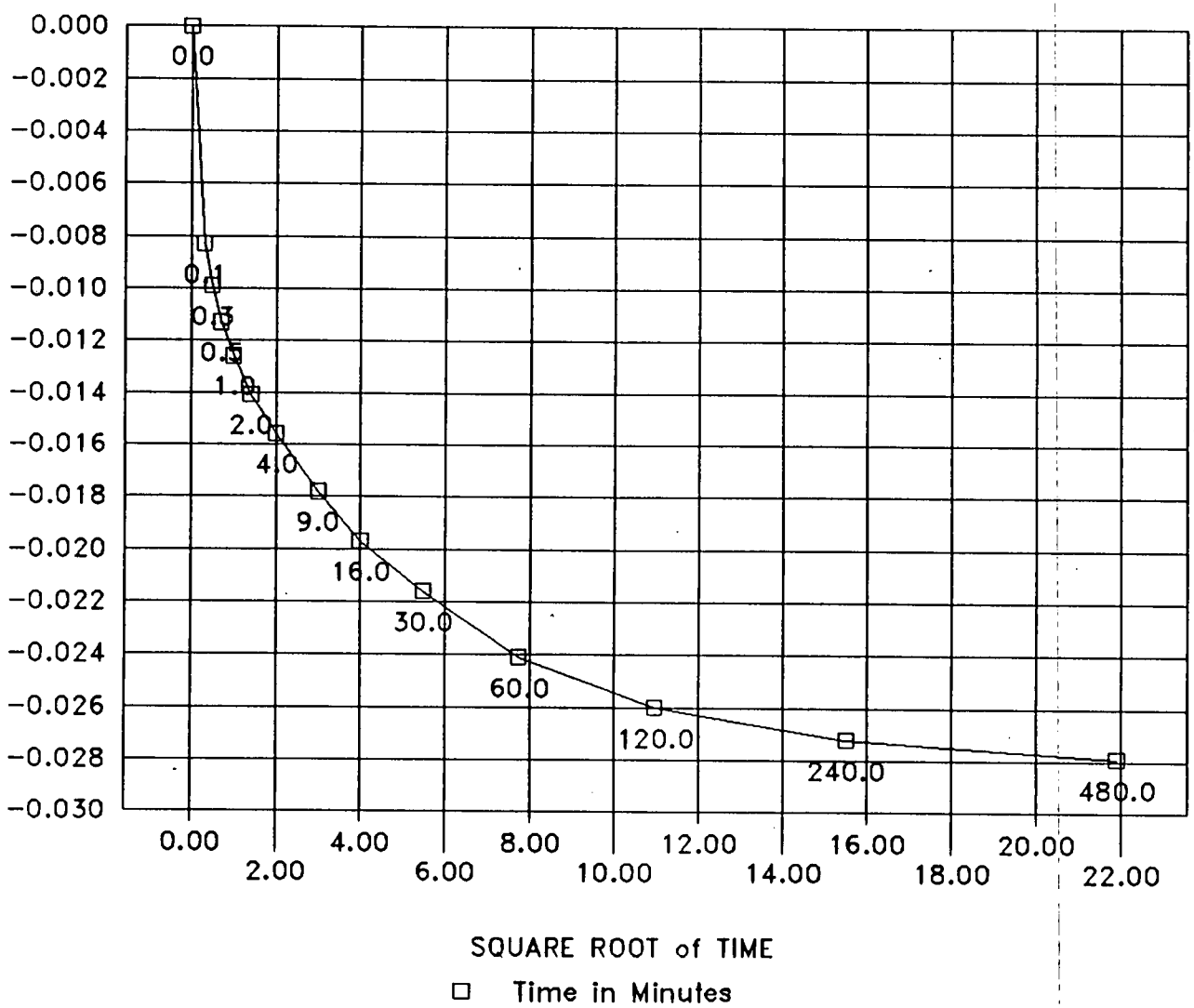
TIME READING DATA

G2-SB-7,404632,1.5-5.0',3200 psf Load



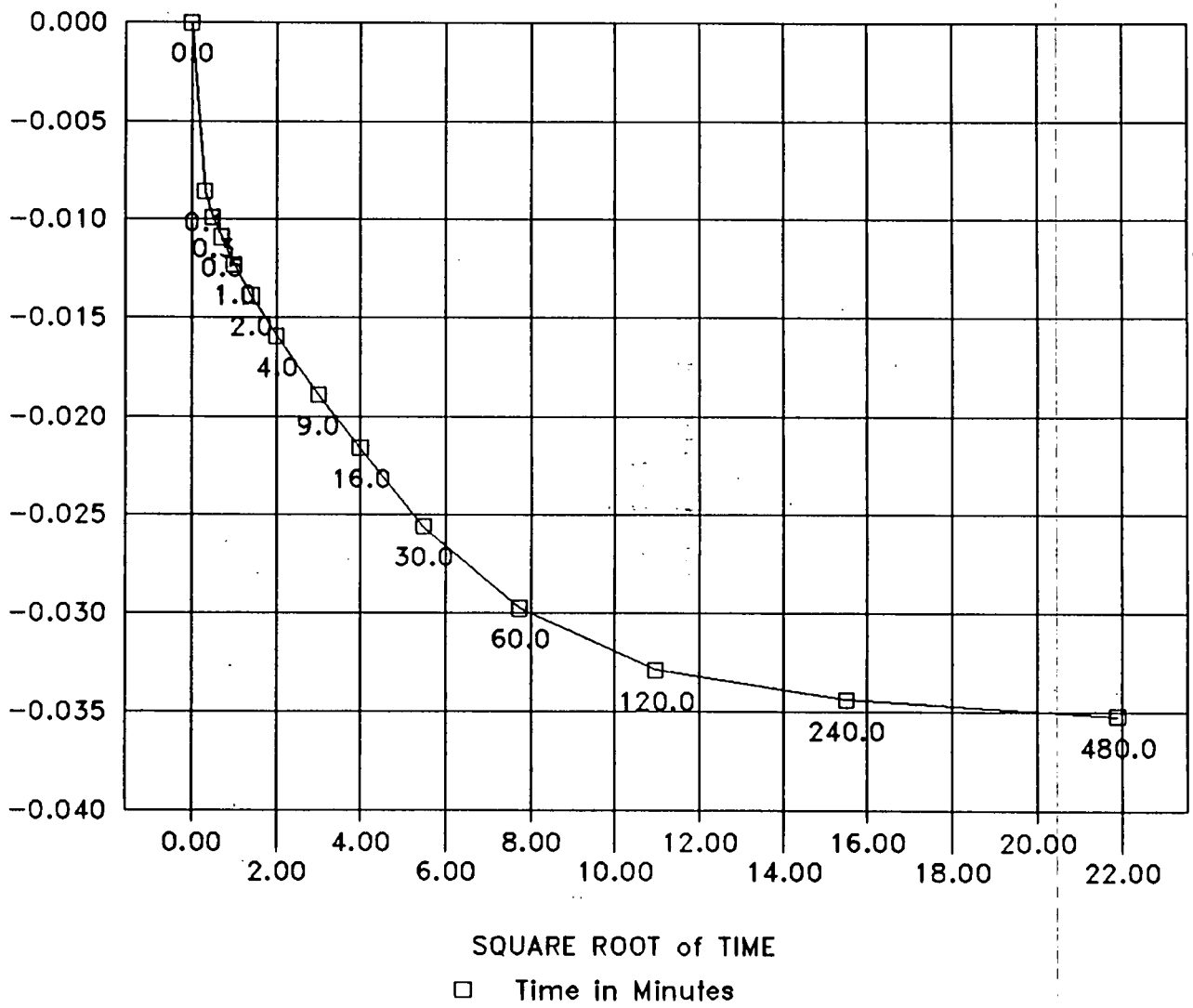
TIME READING DATA

G2-SB-7,404632,1.5-5.0',6400 psf Load



TIME READING DATA

G2-SB-7,404632,1.5-5.0',12800 psf Load



CONSOLIDATION TEST DATA SHEET

SACC632
SACE632
SACC632 1 2 3 4

474
PAGE 1 OF 2
SAC0632

JOB SAIC/Parsons PO 140, Fernald JOB NO. 2059-13 I
DATE SAMPLED 4-26-95 JC, BN BORING NO. G2-SB-7
TEST STARTED 6-22-95 BY CAL TEST FINISHED 7-2-95 BY WSB DEPTH 1.5-5' # 404632
SOIL TYPE CON R95 ✓ ~~CON R95 & DR~~
CONSOLIDOMETER NO. ATT-8 INITIAL SAMPLE HEIGHT 1.00" 2.41"

MOISTURE & DENSITY DATA	BEFORE TEST	AFTER TEST
WT. OF RING(S)+ SOIL gms.	198.84	196.21
WT. OF RING(S) ONLY gms.	46.29	
WT. OF SOIL (NET)		
WET DENSITY IN LBS/CU. FT.*		
WT. OF WET SOIL + DISH NO. 14B		
WT. OF DRY SOIL + DISH		
WT. OF LOST MOISTURE		
WT. OF DISH ONLY gms.	3.79	
WT. OF DRY SOIL		
MOISTURE AS % OF DRY WT.		
DRY DENSITY IN LBS/CU. FT.		

TEST INSTRUCTIONS

LOAD CYCLE 100 WET 200
400 800 1600 TR 3200
6400 TR 12800 TR 25600
Reb x 2

SPECIAL INSTRUCTION AND NOTES
Dry wt. soil + pan + ring = 174.39
WSB 7-5-95
~~CON R95 DR CONTRAC~~

SpGr = 2.72
FH = 1.00 - .0774 = .9226

DATE	TIME	E-LAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOL-IDATION
6-22-95	842	1	100	.0010		
	843	2		.0012		
	851	10		.0020		.0000
	852	1	WET	-.0003		
	853	2		-.0005		
	953			-.0021		
	1101			-.0024		-.0024
	1102	1	200	-.0019		
	1103	2		-.0019		
	1210			-.0015		
	1252			-.0015		-.0016
	1253	1	400	-.0001		
	1254	2		.0001		
	1406			.0010		
	1513			.0012		.0006
	1514	1	800	.0054		
	1515	2		.0056		
	1615			.0075		
	1706			.0078		
6-23-95	0702			.0083		.0071
		.1	1600	.0118		
		.25		.0124		
		.5		.0128		
	0703	1		.0133		
	0704	2		.0138		

DATE	TIME	E-LAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOL IDATION
	0706	4	1600 (cont)	.0143		
	0711	9		.0149		
	0718	16		.0156		
	0732	30		.0161		
	0802	60		.0169		
	0902	120		.0176		
	1102	240		.0182		
	1502	480		.0187		
6-24-95	0748			.0191		
6-25-95	0734			.0194		
6-26-95	0737			.0197		.0176
	0737	.1	3200	.0243		
		.25		.0254		
		.5		.0260		
	0738	1		.0267		
	0739	2		.0276		
	0741	4		.0284		
	0746	9		.0296		
	0753	16		.0305		
	0807	30		.0315		
	0837	60		.0327		
	0937	120		.0338		
	1137	240		.0346		
	1537	480		.0352		
6-27-95	0725			.0358		.0323
			6400			
	0725	.1		.0441		
		.25		.0457		
		.5		.0471		
	0726	1		.0484		

ADVANCED TERRA TESTING

733 CONTINUED ON REVERSE SIDE

G2-SB-7
1.5-5.0'
404632

CONSOLIDATION TEST DATA SHEET (CONTINUED)

DATE	TIME	E-LAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOL-IDATION
	0727	2	6400	.0499		
	0729	4		.0514		
	0734	9		.0536		
	0741	16		.0555		
	0755	30		.0574		
	0825	60		.0599		
	0925	120		.0618		
	1125	240		.0630		
	1525	480		.0637		
6-28-95	0729			.0643		.0593
			12800			
		.1		.0729		
		.25		.0742		
		.5		.0752		
	0730	1		.0766		
	0731	2		.0782		
	0733	4		.0802		
	0738	9		.0832		
	0745	16		.0859		
	0754	30		.0899		
	0829	60		.0941		
	0929	120		.0972		
	1129	240		.0987		
	1529	480		.0995		
6-29-95	0747			.1001		.0933
			25600			
	0748	1		.1097		
	0749	2		.1117		
	0830			.1356		
	1137			.1376		
	1358			.1382		
	1533			.1384		.1296
			6400			
	1534	1		.1337		
	1535	2		.1332		
	1659			.1296		
6-30-95	708			.1289		
	0830			.1289		.1207
			1600			
	0831	1		.1264		
	0832	2		.1256		
	947			.1172		
	1114			.1150		
	1228			.1143		
	1351			.1138		
	1519			.1135		.1069
			400			
	1520	1		.1114		
	1521	2		.1111		
7-1-95	719			.0946		
	822			.0944		.0891
	823	1	100	.0939		
	824	2		.0938		
	921			.0911		

DATE	TIME	E-LAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOL-IDATION
7-1-95	1117		100	.0885		
7-2-95	0901			.0818		
	1008			.0818		.0774

CONSOLIDATION TEST

ASTM D 2435

Remolded to 85% MDD

CONSOLIDATION TEST
ASTM D-2435

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13G

BORING NO.	G2-120	SAMPLED	5-2-95
DEPTH	5.0-7.0'	TEST STARTED	6-20-95 WEB
SAMPLE NO.	405124	TEST FINISHED	6-30-95 REW
SOIL DESCR.	Fernald	CELL NUMBER	ATT-3
Note: Remolded to 85% MDD			
SAMPLE DIA.(in)	2.410	INITIAL HT.(in)	1.000

MOISTURE/DENSITY DATA	BEFORE TEST	AFTER TEST
Wt. Soil & Ring(s) (g)	184.0	182.8
Wt. Ring(s) (g)	46.3	46.3
Wt. Soil (g)	137.8	136.5
Wet Density PCF	115.1	142.8
Wt. Wet Soil & Pan (g)	141.3	140.1
Wt. Dry Soil & Pan (g)	125.2	125.2
Wt. Lost Moisture (g)	16.1	14.9
Wt. of Pan Only (g)	3.6	3.6
Wt. of Dry Soil (g)	121.6	121.6
Moisture Content %	13.3	12.2
Dry Density PCF	101.6	127.3

LOAD (PSF)	CONSOL. (IN.)
100	0.0000
100	0.0014
200	0.0048
400	0.0662
800	0.1099
1600	0.1413
3200	0.1669
6400	0.1753
12800	0.1934
25600	0.2115
6400	0.2104
1600	0.2072
400	0.2047
100	0.2018

LOAD (PSF)	LOG p	CONSOL. (IN.)	DEFL. (IN.)	VOID RATIO e
100	2.000	0.0000	0.0000	0.6655
100	2.000	0.0014	-0.0014	0.6632
200	2.301	0.0048	-0.0048	0.6575
400	2.602	0.0662	-0.0662	0.5552
800	2.903	0.1099	-0.1099	0.4825
1600	3.204	0.1413	-0.1413	0.4302
3200	3.505	0.1669	-0.1669	0.3875
6400	3.806	0.1753	-0.1753	0.3735
12800	4.107	0.1934	-0.1934	0.3434
25600	4.408	0.2115	-0.2115	0.3132
6400	3.806	0.2104	-0.2104	0.3151
1600	3.204	0.2072	-0.2072	0.3204
400	2.602	0.2047	-0.2047	0.3246
100	2.000	0.2018	-0.2018	0.3294

% Saturation	54.0
Sp. Gr. (g/cc)	2.710
Init. Ht. Solids (cm)	1.525
Init. Ht. Voids (cm)	1.015
Init. Void Ratio	0.6655

Data entry by: NAA Date: 7-5-95
Data checked by: AJ Date: 8-12-95
FileName:SAC02485

ADVANCED TERRA TESTING, INC.

TIME READING DATA

G2-120
5.0-7.0'

1600 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.3533	0.0000
0.1	0.32	0.3302	-0.0231
0.3	0.50	0.3276	-0.0257
0.5	0.71	0.3263	-0.0270
1.0	1.00	0.3249	-0.0284
2.0	1.41	0.3237	-0.0296
4.0	2.00	0.3227	-0.0306
9.0	3.00	0.3218	-0.0315
16.0	4.00	0.3213	-0.0320
30.0	5.48	0.3209	-0.0324
60.0	7.75	0.3205	-0.0328
120.0	10.95	0.3202	-0.0331
240.0	15.49	0.3199	-0.0334
480.0	21.91	0.3197	-0.0336

3200 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.3194	0.0000
0.1	0.32	0.3070	-0.0124
0.3	0.50	0.3024	-0.0170
0.5	0.71	0.3004	-0.0190
1.0	1.00	0.2987	-0.0207
2.0	1.41	0.2972	-0.0222
4.0	2.00	0.2959	-0.0235
9.0	3.00	0.2948	-0.0246
16.0	4.00	0.2942	-0.0252
30.0	5.48	0.2938	-0.0256
60.0	7.75	0.2934	-0.0260
120.0	10.95	0.2931	-0.0263
240.0	15.49	0.2925	-0.0269
480.0	21.91	0.2923	-0.0271

6400 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.4406	0.0000
0.1	0.32	0.4365	-0.0041
0.3	0.50	0.4358	-0.0048
0.5	0.71	0.4353	-0.0053
1.0	1.00	0.4347	-0.0059
2.0	1.41	0.4340	-0.0066
4.0	2.00	0.4333	-0.0073
9.0	3.00	0.4325	-0.0081
16.0	4.00	0.4319	-0.0087
30.0	5.48	0.4315	-0.0091
60.0	7.75	0.4311	-0.0095
120.0	10.95	0.4307	-0.0099
240.0	15.49	0.4303	-0.0103
480.0	21.91	0.4297	-0.0109

12800 psf Load

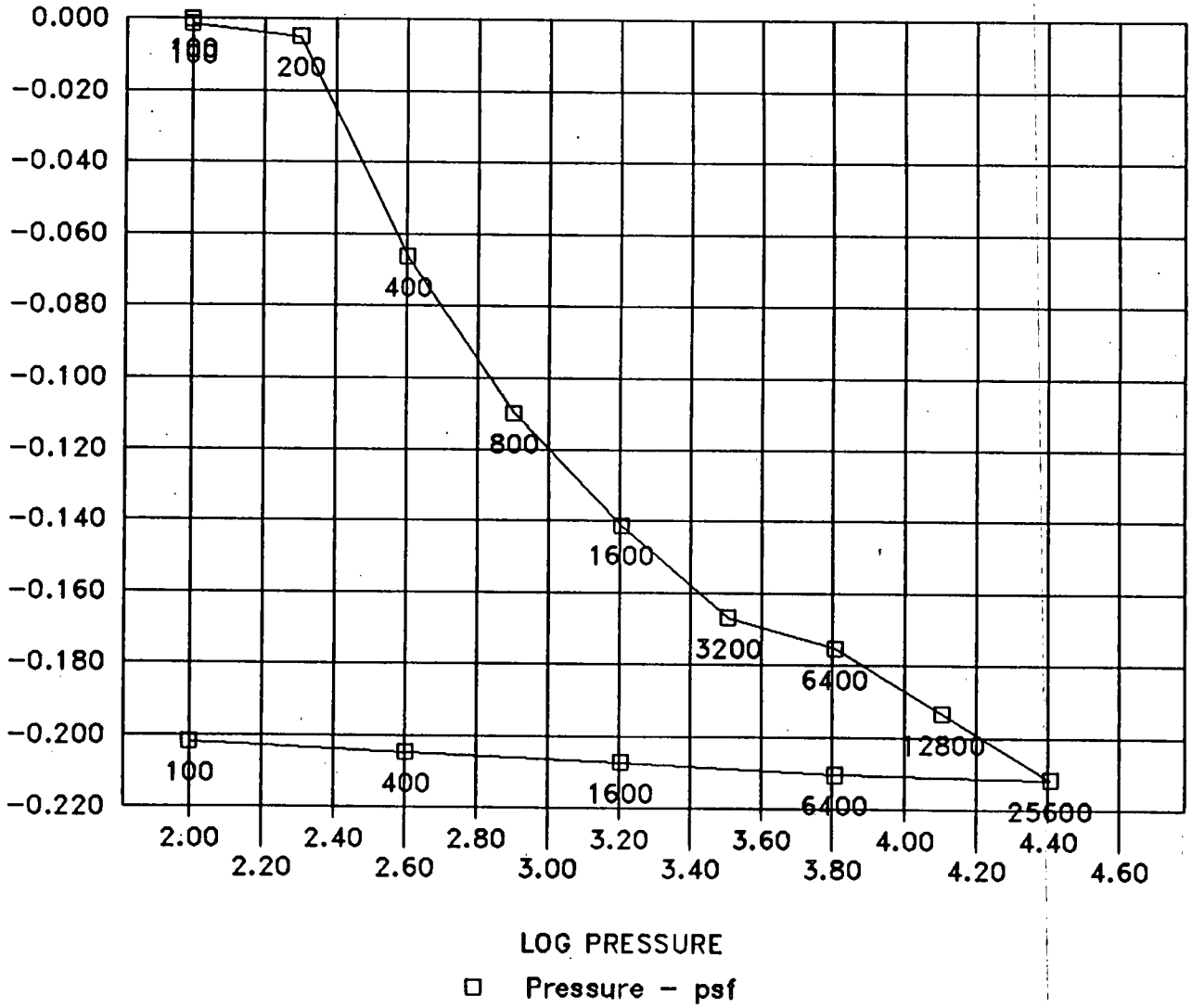
Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.4294	0.0000
0.1	0.32	0.4197	-0.0097
0.3	0.50	0.4186	-0.0108
0.5	0.71	0.4173	-0.0121
1.0	1.00	0.4163	-0.0131
2.0	1.41	0.4147	-0.0147
4.0	2.00	0.4135	-0.0159
9.0	3.00	0.4123	-0.0171
16.0	4.00	0.4117	-0.0177
30.0	5.48	0.4112	-0.0182
60.0	7.75	0.4106	-0.0188
120.0	10.95	0.4102	-0.0192
240.0	15.49	0.4099	-0.0195
480.0	21.91	0.4095	-0.0199

Data entry by: NAA Date: 7-5-95
Data checked by: GJ Date: 7-5-95
FileName:SAC02485

ADVANCED TERRA TESTING, INC.

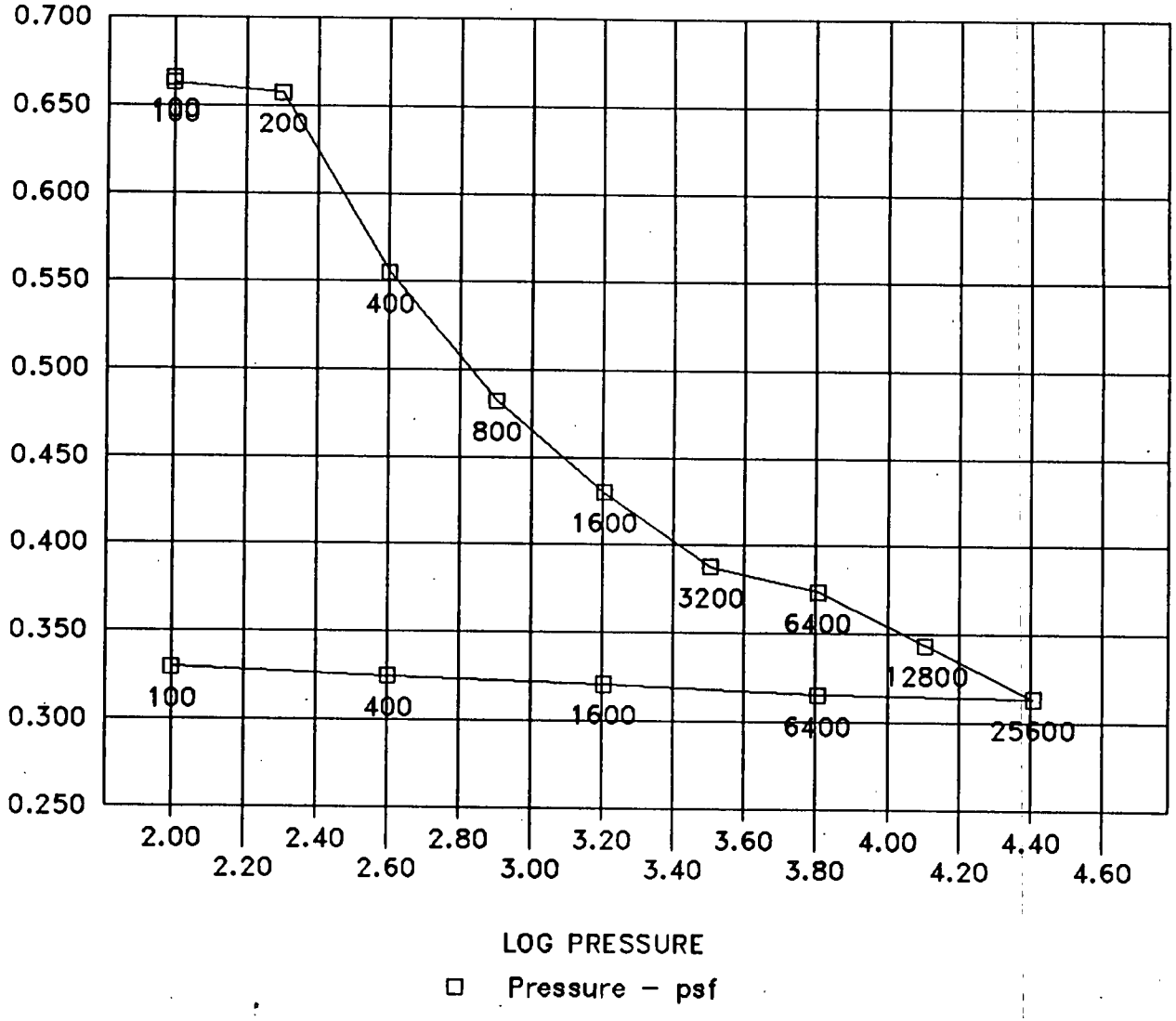
CONSOLIDATION TEST DATA

G2-120,405124,5.0-7.0'



CONSOLIDATION TEST DATA

G2-120,405124,5.0-7.0'



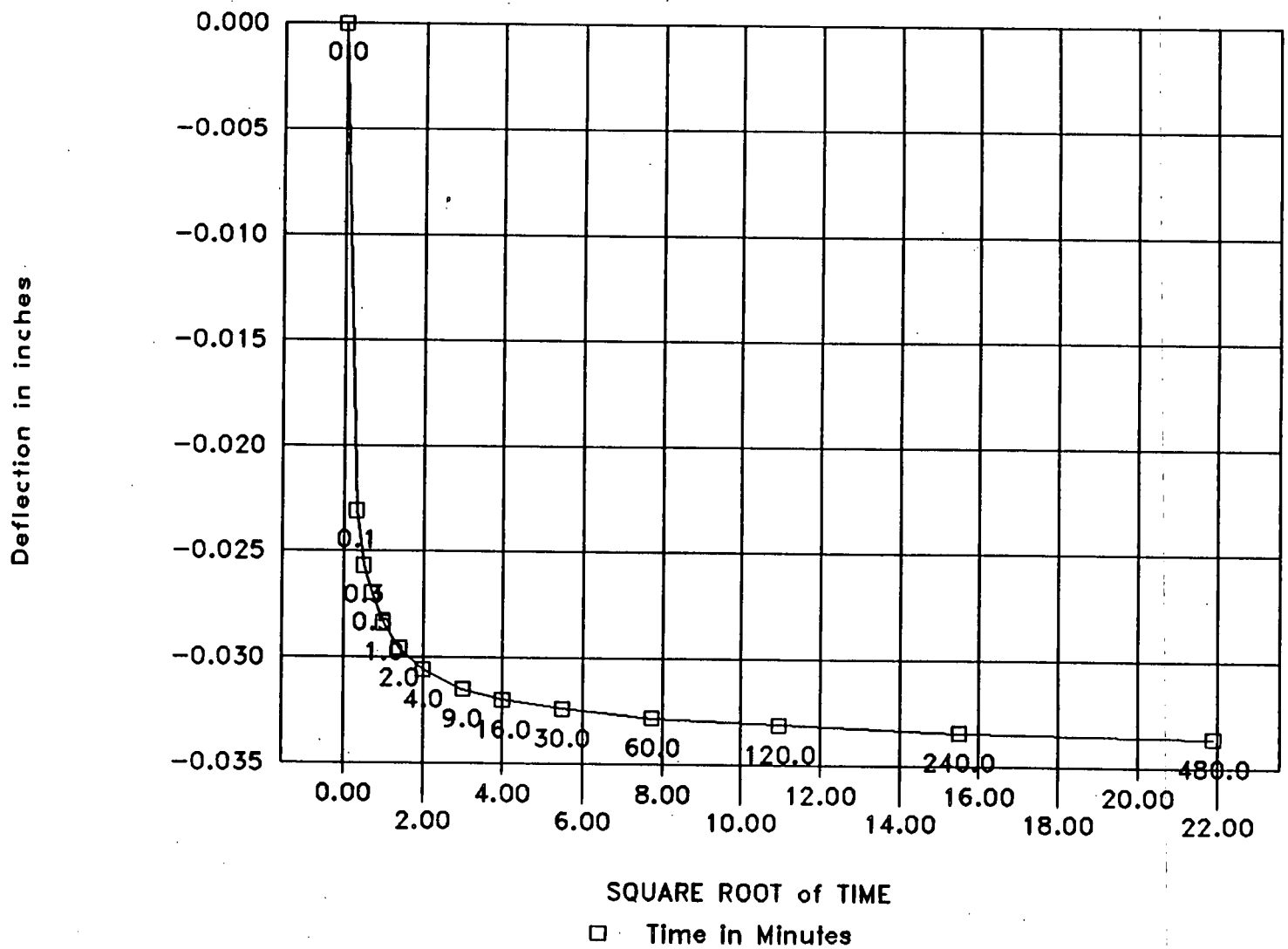
739

000803

474

TIME READING DATA

G2-120,405124,5.0-7.0',1600 psf Load



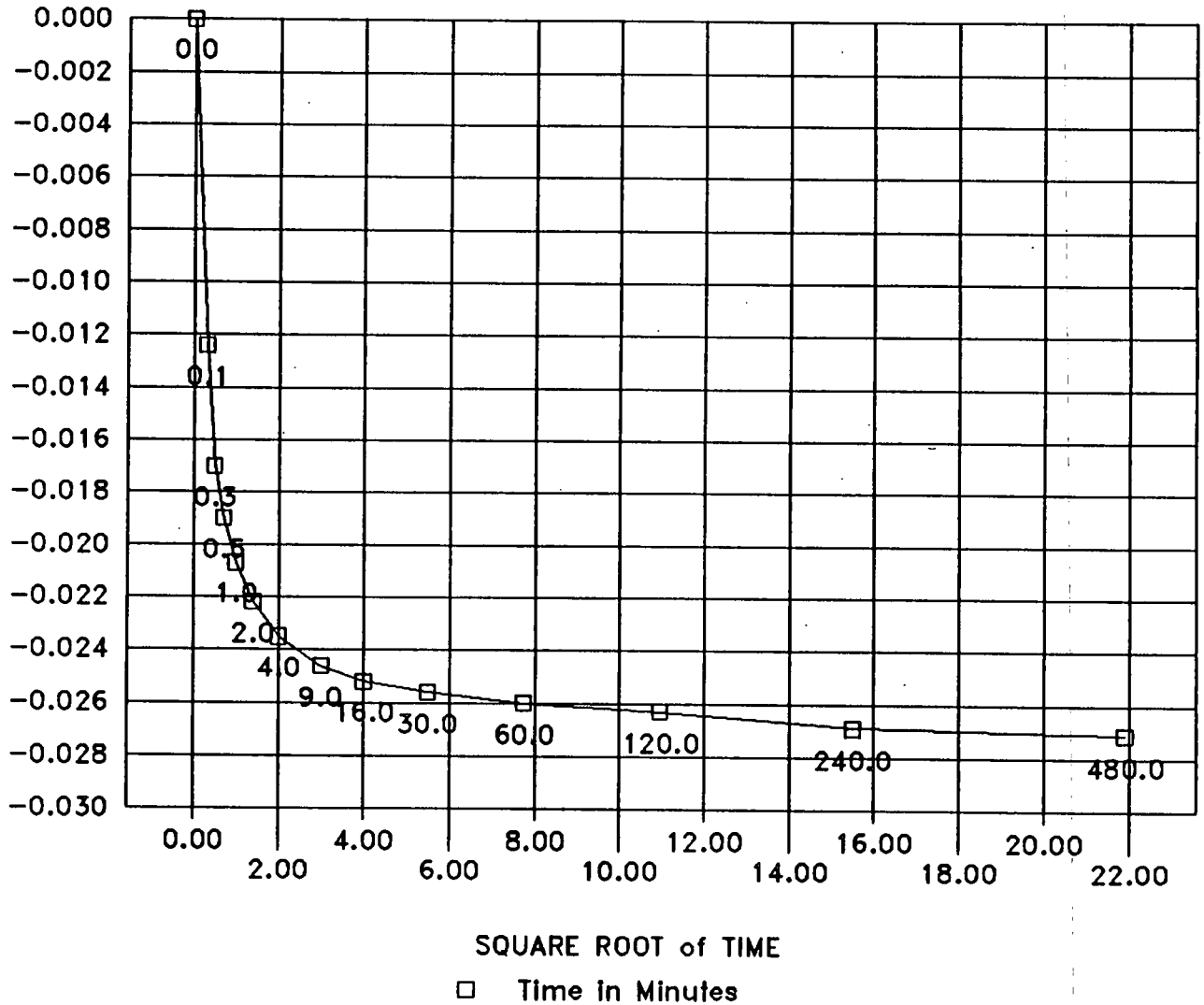
740

474

000801

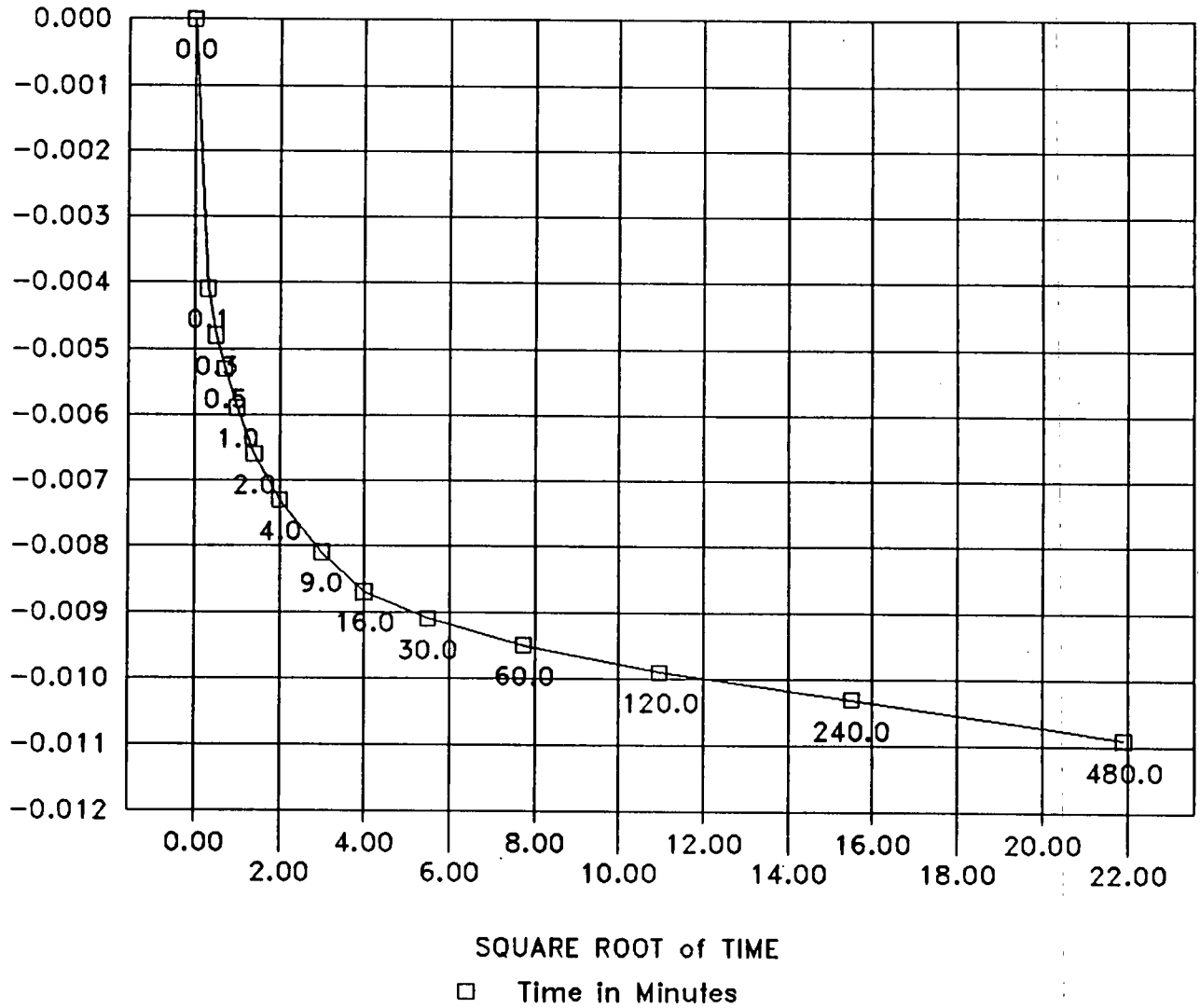
TIME READING DATA

G2-120,405124,5.0-7.0',3200 psf Load



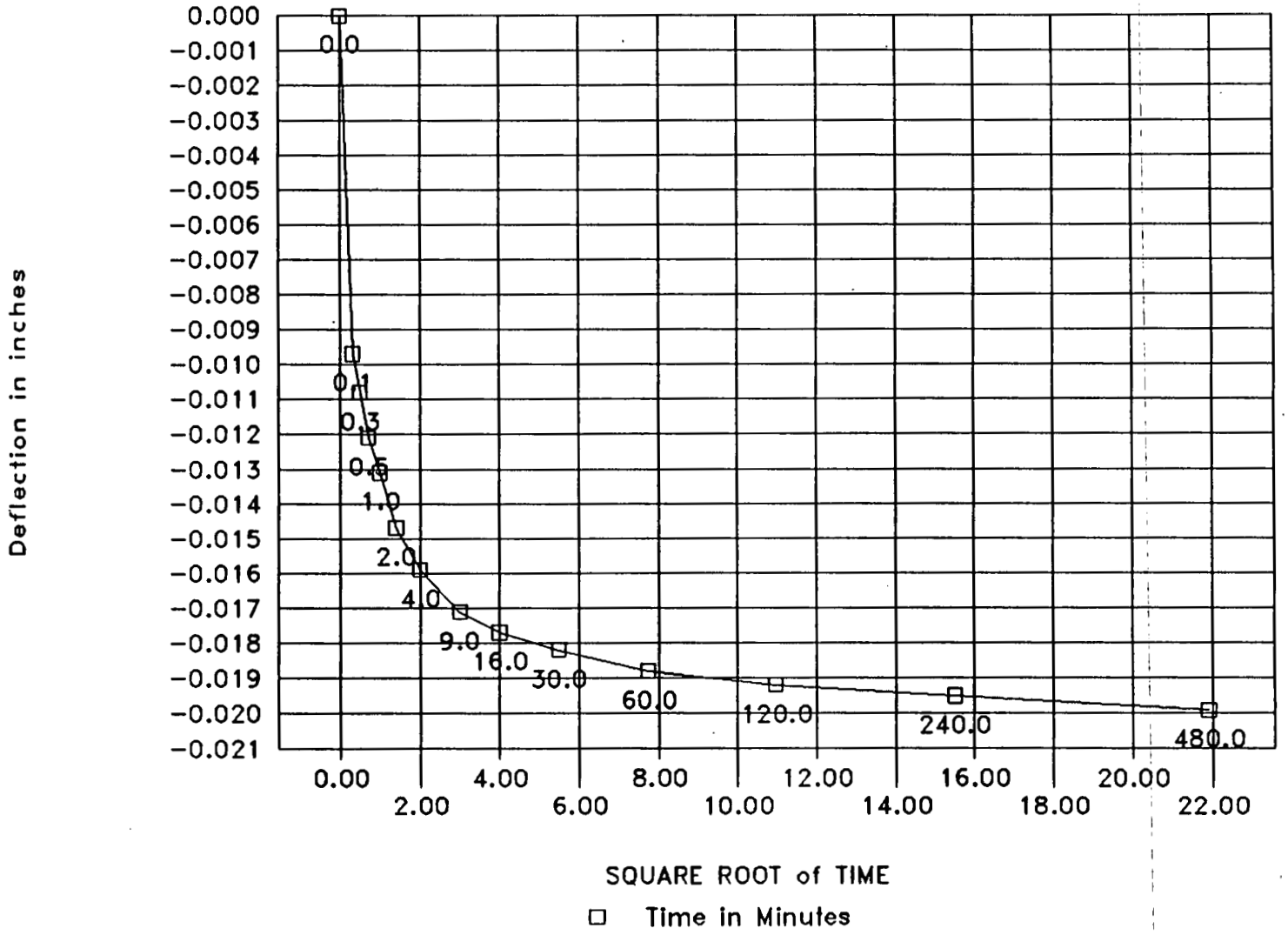
TIME READING DATA

G2-120,405124,5.0-7.0',6400 psf Load



TIME READING DATA

G2-120,405124,5.0-7.0',12800 psf Load



CONSOLIDATION TEST DATA SHEET SACØ2485 SAC1 2485 SACC 2485 2 SACE 2485 3 4

JOB SAIC/PARSONS PO140 JOB NO. 2059-136

DATE SAMPLED 5-2-95 BORING NO. ~~5-7~~ WB 62-12

TEST STARTED 6-20-95 BY WEB TEST FINISHED 6-30-95 BY RDW DEPTH 5-7'

SOIL TYPE Sample # 405124

CONSOLIDOMETER NO. ATT-3 INITIAL SAMPLE HEIGHT 1.00" D_o = 2.41"

MOISTURE & DENSITY DATA	BEFORE TEST	AFTER TEST
WT. OF RING(S) + SOIL	184.04	182.78
WT. OF RING(S) ONLY	46.26g	46.26g
WT. OF SOIL (NET)		
WET DENSITY IN LBS/CU. FT.		
WT. OF WET SOIL + DISH NO.		
INT. OF DRY SOIL + DISH		
WT. OF LOST MOISTURE		
WT. OF DISH ONLY 62 g		3.55
WT. OF DRY SOIL		
MOISTURE AS % OF DRY WT.		
DRY DENSITY IN LBS/CU. FT.		

TEST INSTRUCTIONS

LOAD CYCLE 100 wet 200 400 800 1600 TR 3200 6400 TR 12800 TR 25600 Rebx

SPECIAL INSTRUCTION AND NOTES

Dry WT Soil + Ring + Pan = 171.4

Remolded to 85% at opt. M.

CONr85

SP GR = 2.75

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOLIDATION
6-20-95	1317	0	100	.1789		
	1327	10		.1781		
			WET			
	1328	1		.1779		
	1329	2		.1777		
	1439			.1768		
	1545			.1767	.0014	.0014
			200			
	1546	1		.1749		
	1547	2		.1745		
	1714			.1724		
6-21-95	0804			.1718	.0063	.0048
			400			
	0805	1		.1400		
	0806	2		.1225		
	0917			.1089		
	1032			.1086		
	1132			.1084		
	1254			.1081	.0700	.0662
			800			
	1255	1		.0673		
	1256	2		.0658		
	1424			.0623		
	1557			.0620		
6-22-95	656			.0615	na	
	814			.0615	.0166	.1099
add larger ball new zero				.3533		

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOLIDATION
6-22-95		.1	1600	.3302		
		.25		.3276		
		.5		.3263		
	815	1		.3249		
	816	2		.3237		
	818	4		.3227		
	823	9		.3218		
	830	16		.3213		
	844	30		.3209		
	914	60		.3205		
	1014	120		.3202		
	1214	240		.3199		
	1614	480		.3197		
6-23-95	0708			.3194	.1505	.1413
		.1	3200	.3070		
		.25		.3024		
		.5		.3004		
	0709	1		.2987		
	0710	2		.2972		
	0712	4		.2959		
	0717	9		.2948		
	0724	16		.2942		
	0738	30		.2938		
	0808	60		.2934		
	0908	120		.2931		
	1108	240		.2925		
	1508	480		.2923	~~.2780~~ na	
Machine Bumped	1518		na	~~.2825~~	= .2923	
		1584	.2798	~~.2998~~	= .2923	

ADVANCED TERRA TESTING

744 CONTINUED ON REVERSE SIDE

SAIC/Parsons PO #0
G2-120 5.0-7.0'
40524

474

PAGE 2 OF 2

CONSOLIDATION TEST DATA SHEET (CONTINUED)

DATE	TIME	E-LAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOL-IDATION
6-24-95	0753		3200	.2740	.1790	.1669
6-26-95	Add new	porestone w/ zero		.4417		
	0728			.4415		
	0731			.4414		
	0917			.4412		
6-27-95	0722		new zero →	.4406		
			6400			
		.1		.4365		
		.25		.4358		
		.5		.4353		
	0723	1		.4347		
	0724	2		.4340		
	0728	4		.4333		
	0731	9		.4325		
	0738	16		.4319		
	0752	30		.4315		
	0822	60		.4311		
	0922	120		.4307		
	1122	240		.4303		
	1522	480		.4297		
6-28-95	0719			.4294	.1902	.1753
			12800			
		.1		.4197		
		.25		.4186		
		.5		.4173		
	0720	1		.4163		
	0721	2		.4147		
	0723	4		.4135		
	0728	9		.4123		
	0735	16		.4117		
	0849	30		.4112		
	0819	60		.4106		
	0919	120		.4102		
	1119	240		.4099		
	1519	480		.4095		
6-29-95	0746			.4093	.2103	.1934
			25600			
	0747	1		.3960		
	0748	2		.3948		
	0849			.3912		
	0942			.3907		
	1140			.3903	.2293	.2115
			6400	47		
	1141	1		.3953 new 6/29		
	1142	2		.3948		
	1332			.3950	.2246	.2104
			1600			
	1335	1		.3994		
	1336	2		.3997		
	1524			.4005		
	1659			.4007		
6-30-95	912			.4008	.2188	.2072

DATE	TIME	E-LAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOL-IDATION
6-30-95	713	1	400	.4037		
	714	2		.4041		
	0837			.4063		
	0947			.4065	.2131	.2047
	0948	1	100	.4082		
	0949	2		.4086		
	1212			.4120		
	1359			.4124		
	1453			.4124	.2072	.2018

CONSOLIDATION TEST
ASTM D-2435

CLIENT SAIC/Parsons PO 140 JOB NO. 2059-13A

BORING NO.	G2-124	SAMPLED	4-12-95 FP, MM
DEPTH	10.0-12.0'	TEST STARTED	6-16-95 WEB
SAMPLE NO.	405004	TEST FINISHED	6-26-95 DPM
SOIL DESCR.	Fernald	CELL NUMBER	ATT-7
Note: Remolded to 85% MDD			
SAMPLE DIA.(in)	2.410	INITIAL HT.(in)	1.000

MOISTURE/DENSITY DATA		BEFORE TEST	AFTER TEST	LOAD (PSF)	CONSOL. (IN.)
Wt. Soil & Ring(s)	(g)	186.0	195.3	100	0.0000
Wt. Ring(s)	(g)	45.1	45.1	100	-0.0514
Wt. Soil	(g)	140.8	150.2	200	-0.0481
Wet Density	PCF	117.6	136.0	400	-0.0377
				800	-0.0156
Wt. Wet Soil & Pan	(g)	144.7	154.0	1600	0.0139
Wt. Dry Soil & Pan	(g)	129.3	129.3	3200	0.0454
Wt. Lost Moisture	(g)	15.4	24.8	6400	0.0718
Wt. of Pan Only	(g)	3.8	3.8	12800	0.1011
Wt. of Dry Soil	(g)	125.4	125.4	25600	0.1336
Moisture Content	%	12.3	19.7	6400	0.1262
Dry Density	PCF	104.8	113.6	1600	0.1140
				400	0.0968
				100	0.0776

	LOAD (PSF)	LOG p	CONSOL. (IN.)	DEFL. (IN.)	VOID RATIO e
	100	2.000	0.0000	0.0000	0.6210
Saturate	100	2.000	-0.0514	0.0514	0.7043
	200	2.301	-0.0481	0.0481	0.6990
	400	2.602	-0.0377	0.0377	0.6821
	800	2.903	-0.0156	0.0156	0.6463
	1600	3.204	0.0139	-0.0139	0.5985
	3200	3.505	0.0454	-0.0454	0.5474
	6400	3.806	0.0718	-0.0718	0.5046
	12800	4.107	0.1011	-0.1011	0.4571
	25600	4.408	0.1336	-0.1336	0.4044
	6400	3.806	0.1262	-0.1262	0.4164
	1600	3.204	0.1140	-0.1140	0.4362
	400	2.602	0.0968	-0.0968	0.4641
	100	2.000	0.0776	-0.0776	0.4952

% Saturation	53.7
Sp. Gr. (g/cc)	2.720
Init. Ht. Solids (cm)	1.567
Init. Ht. Voids (cm)	0.973
Init. Void Ratio	0.6210

Data entry by: NAA Date: 6-28-95
Data checked by: CJ Date: 8-12-95
FileName:SAC00485

ADVANCED TERRA TESTING, INC.

TIME READING DATA

G2-124
10.0-12.0'

1600 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	-0.0136	0.0000
0.1	0.32	-0.0041	-0.0095
0.3	0.50	-0.0009	-0.0127
0.5	0.71	0.0009	-0.0145
1.0	1.00	0.0030	-0.0166
2.0	1.41	0.0052	-0.0188
4.0	2.00	0.0077	-0.0213
9.0	3.00	0.0107	-0.0243
16.0	4.00	0.0126	-0.0262
30.0	5.48	0.0141	-0.0277
60.0	7.75	0.0152	-0.0288
125.0	11.18	0.0159	-0.0295
240.0	15.49	0.0164	-0.0300
480.0	21.91	0.0169	-0.0305

3200 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.0171	0.0000
0.1	0.32	0.0308	-0.0137
0.3	0.50	0.0324	-0.0153
0.5	0.71	0.0338	-0.0167
1.0	1.00	0.0352	-0.0181
2.0	1.41	0.0370	-0.0199
4.0	2.00	0.0389	-0.0218
9.0	3.00	0.0418	-0.0247
16.0	4.00	0.0439	-0.0268
30.0	5.48	0.0458	-0.0287
60.0	7.75	0.0477	-0.0306
120.0	10.95	0.0488	-0.0317
240.0	15.49	0.0493	-0.0322
480.0	21.91	0.0499	-0.0328

6400 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.0501	0.0000
0.1	0.32	0.0582	-0.0081
0.3	0.50	0.0630	-0.0129
0.5	0.71	0.0648	-0.0147
1.0	1.00	0.0662	-0.0161
2.0	1.41	0.0677	-0.0176
4.0	2.00	0.0694	-0.0193
9.0	3.00	0.0716	-0.0215
16.0	4.00	0.0733	-0.0232
30.0	5.48	0.0748	-0.0247
60.0	7.75	0.0759	-0.0258
120.0	10.95	0.0770	-0.0269
240.0	15.49	0.0770	-0.0269
480.0	21.91	0.0773	-0.0272

12800 psf Load

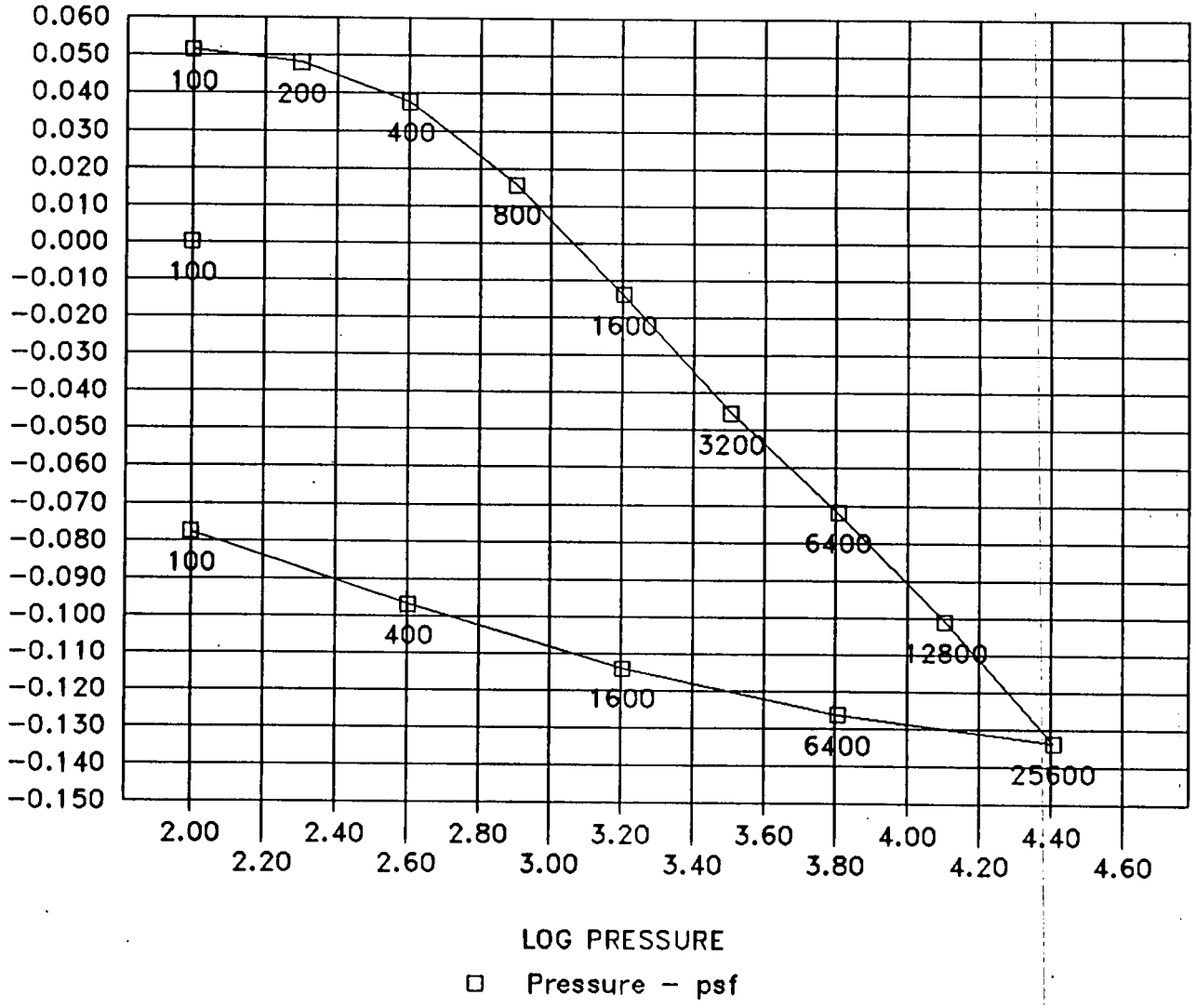
Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.0776	0.0000
0.1	0.32	0.0906	-0.0130
0.3	0.50	0.0935	-0.0159
0.5	0.71	0.0950	-0.0174
1.0	1.00	0.0964	-0.0188
2.0	1.41	0.0980	-0.0204
4.0	2.00	0.0997	-0.0221
9.0	3.00	0.1021	-0.0245
16.0	4.00	0.1039	-0.0263
30.0	5.48	0.1057	-0.0281
60.0	7.75	0.1069	-0.0293
120.0	10.95	0.1076	-0.0300
240.0	15.49	0.1082	-0.0306
480.0	21.91	0.1085	-0.0309

Data entry by: NAA Date: 6-28-95
Data checked by: GJ Date: 8-12-95
FileName:SAC00485

ADVANCED TERRA TESTING, INC.

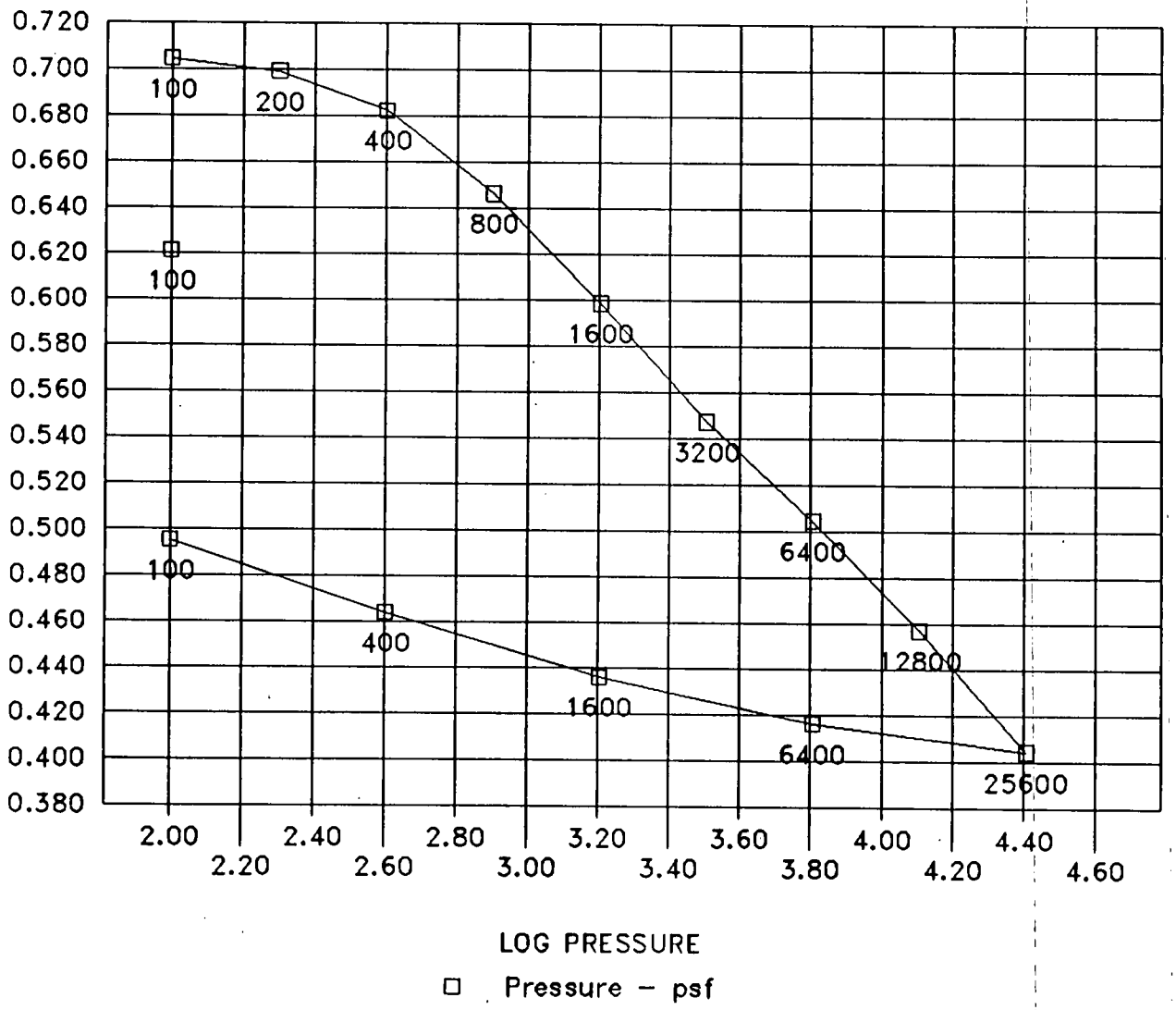
CONSOLIDATION TEST DATA

G2-124,405004,10.0-12.0'



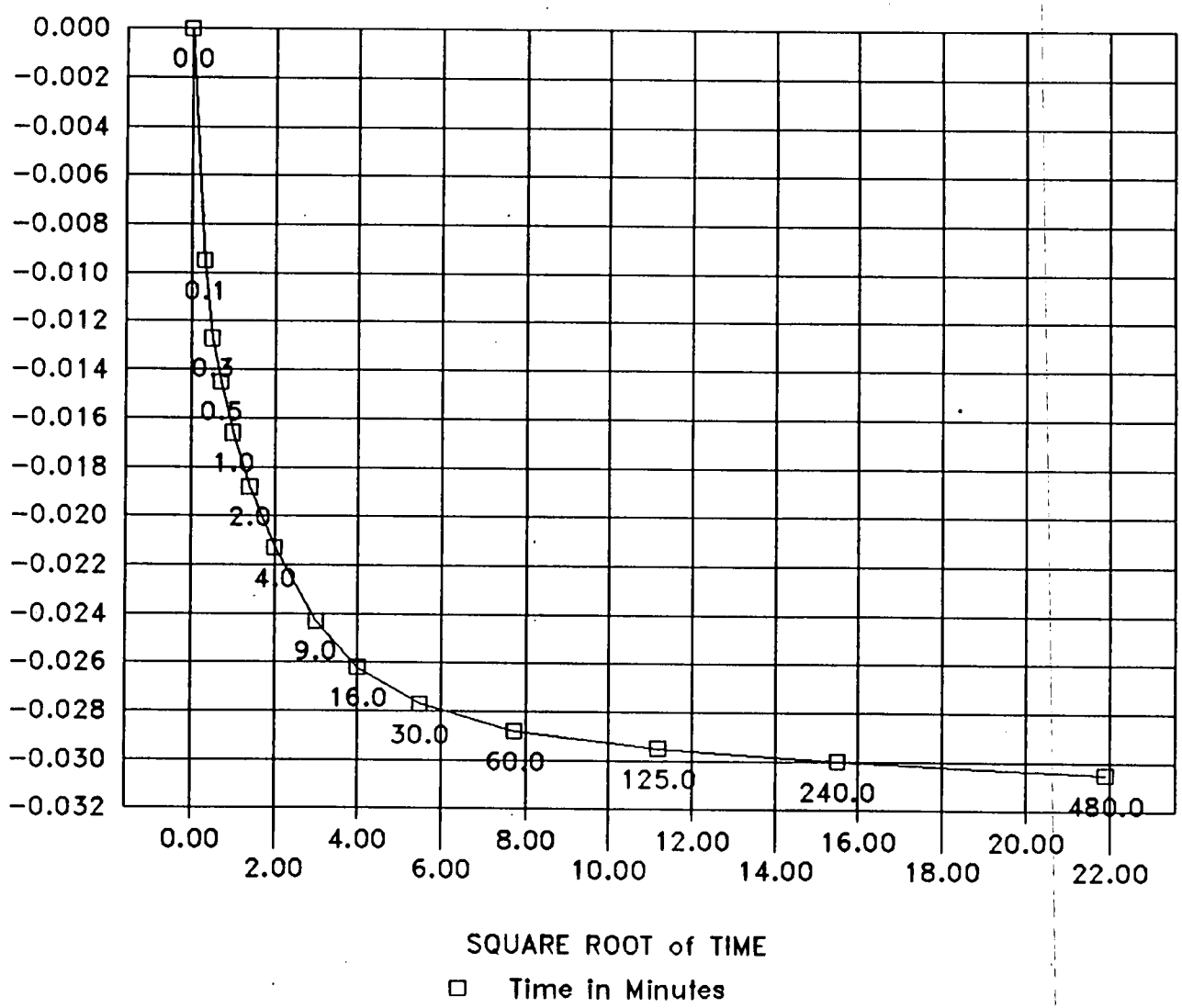
CONSOLIDATION TEST DATA

G2-124,405004,10.0-12.0'



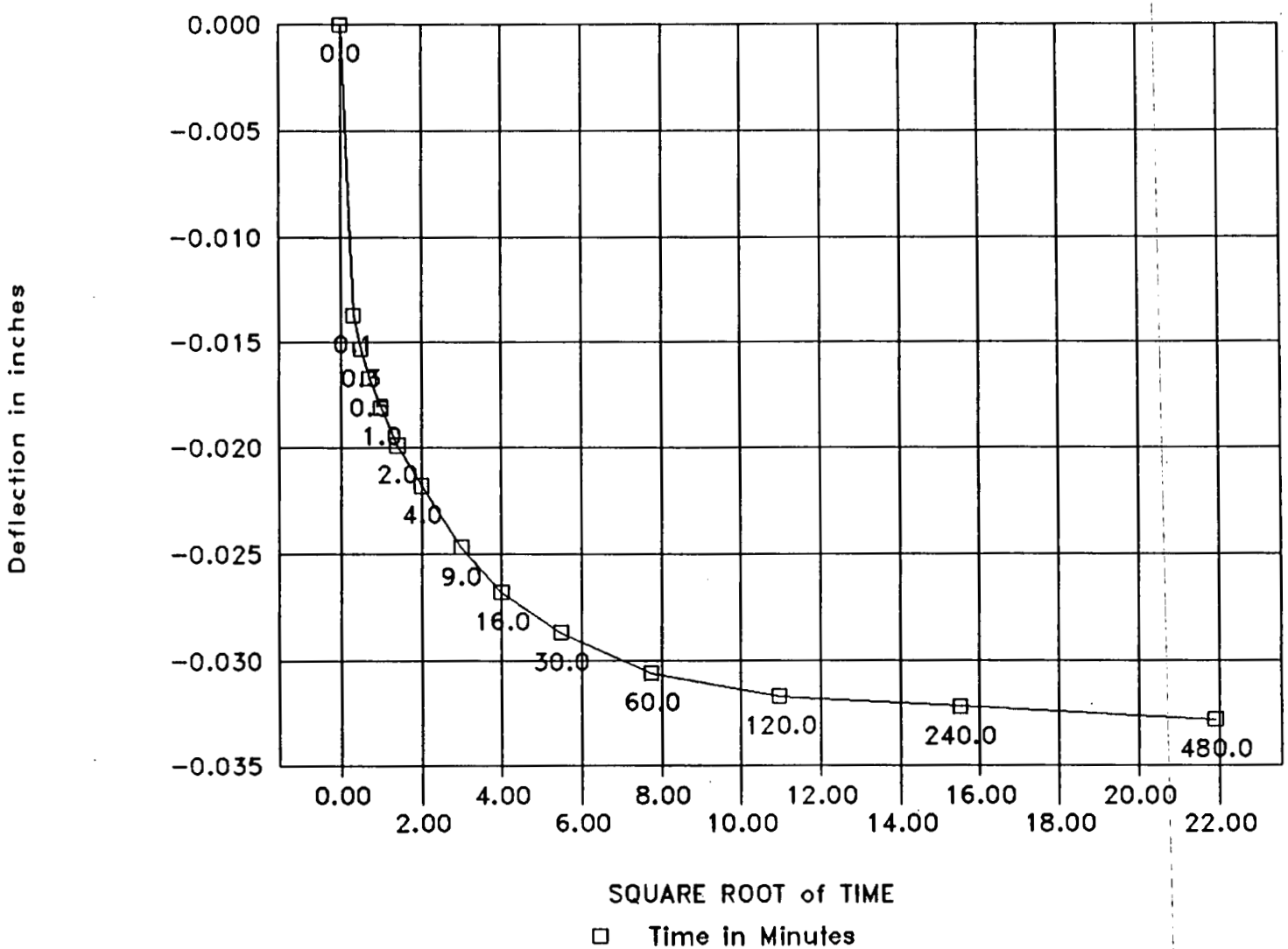
TIME READING DATA

G2-124,405004,10.0-12.0',1600 psf Load



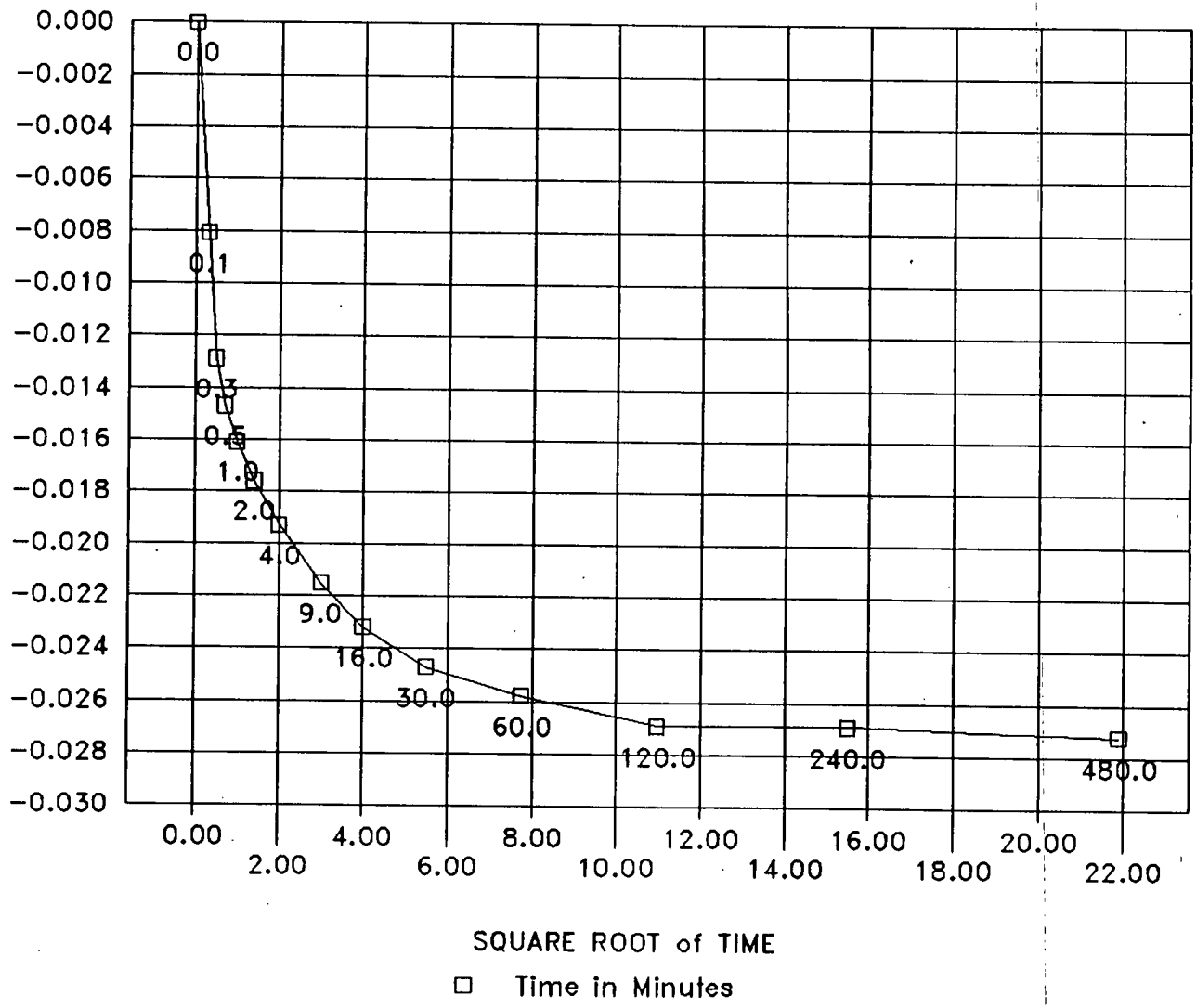
TIME READING DATA

G2-124,405004,10.0-12.0',3200 psf Load



TIME READING DATA

G2-124,405004,10.0-12.0',6400 psf Load



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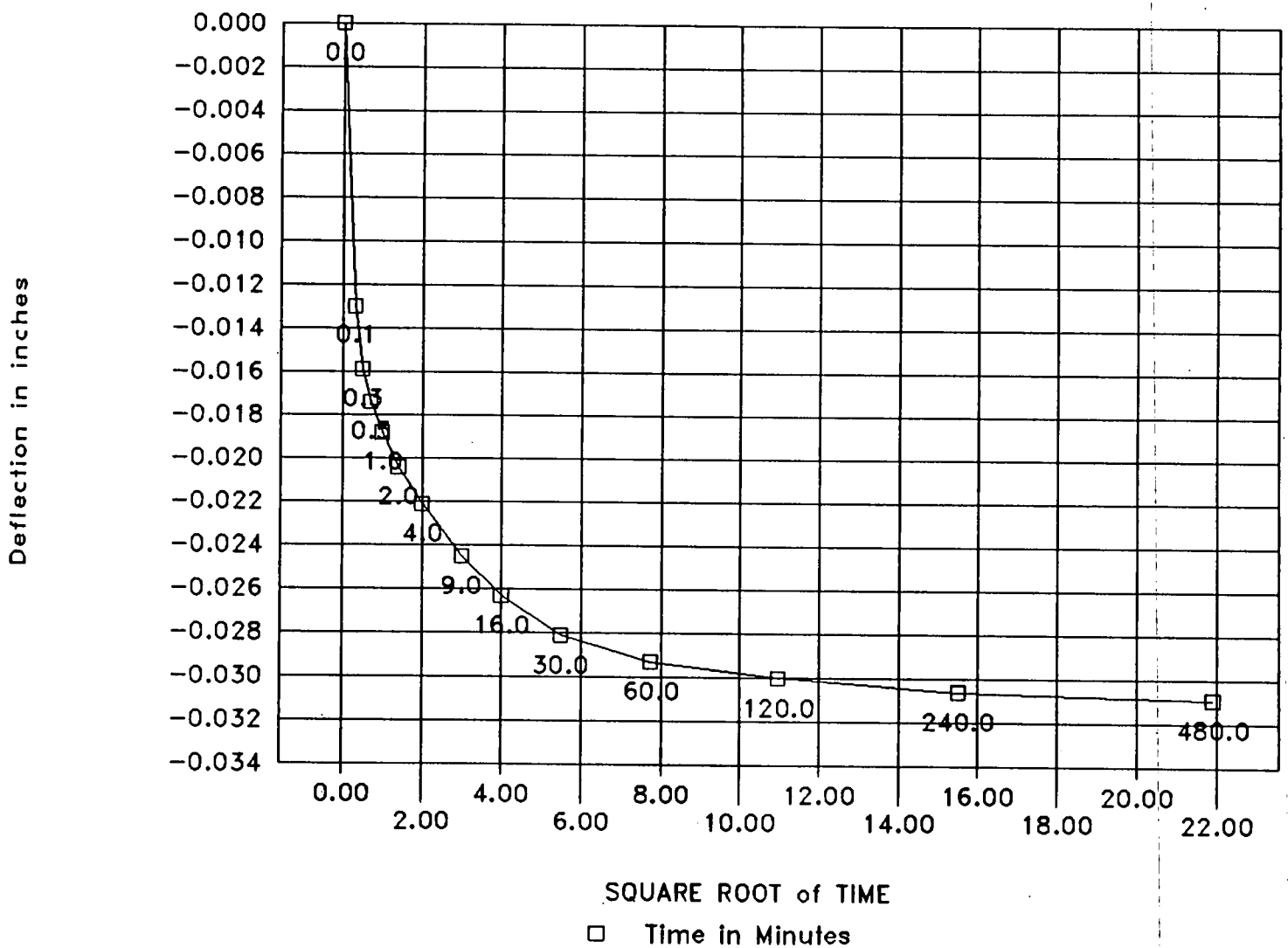
TIME READING DATA

G2-124,405004,10.0-12.0',12800 psf Load



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CONSOLIDATION TEST DATA SHEET

SAC00485 SAC1R485 2
SAC00485 3
SAC G0485 4

JOB SAIC / PARSONS P0140 JOB NO. 2059-13A

DATE SAMPLED 4-12-95 FP. MM BORING NO. 62-124

TEST STARTED 6-16-95 BY WEB TEST FINISHED 6-26-95 BY DPM DEPTH 10-12'

SOIL TYPE Fernald SAMPLE 405004

CONSOLIDOMETER NO. ATT-7 INITIAL SAMPLE HEIGHT 1.00" D_o = 2.41"

MOISTURE & DENSITY DATA	BEFORE TEST	AFTER TEST
WT. OF RING(S)+ SOIL	185.95g	195.34g
WT. OF RING(S) ONLY	45.13g	
WT. OF SOIL (NET)		
WET DENSITY IN LBS/CU. FT.*		
WT. OF WET SOIL + DISH NO. A18		
INT. OF DRY SOIL + DISH		
WT. OF LOST MOISTURE		
WT. OF DISH ONLY	3.83g	
WT. OF DRY SOIL		
MOISTURE AS % OF DRY WT.		
DRY DENSITY IN LBS/CU. FT.		

TEST INSTRUCTIONS

LOAD CYCLE	100	WET	200
400	800	1600 TR	3200
6400 TR	12800 TR	25600	

Rebound x2

SPECIAL INSTRUCTION AND NOTES

Dry WT Soil + Ring + Pan = 174.4

CONrBS

Remolded at opt. Moisture to 85% Max Dry Density

SpGr = 2.72

FH = .9224

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOLIDATION
6-16-95	1046	0	100	.0000		
	1056	10		.0000		
			~~200~~ WET			
	1057	1		-.0079		
	1058	2		-.0096		
	1321			-.0511		
	1429			-.0514		-.0514
			200			
	1430	1		-.0495		
	1431	2		-.0492		
	1649			-.0480		
6-17-95	0743			-.0477		-.0481
			400			
	0817	1		-.0426		
	0818	2		-.0418		
	0839			-.0391		
	1012			-.0378		
	1201			-.0374		
	1539			-.0370		
6-18-95	0812			-.0367		-.0377
			800			
	0915	1		-.0250		
	0916	2		-.0226		
	0933			-.0167		
	1025			-.0152		
	1510			-.0141		
6-19-95	0801			-.0136		-.0156

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOLIDATION
6-19-95			1600			
	0801	.1		-.0041		
		.25		-.0009		
		.5		.0009		
	0802	1		.0030		
	0803	2		.0052		
	0805	4		.0077		
	0810	9		.0107		
	0817	16		.0126		
	0831	30		.0141		
	0901	60		.0152		
1006	~~1001~~	~~120~~	125	.0159		
	1201	240		.0164		
	1601	480		.0169		
6-20-95	0744			.0171		.0139
			3200			
	0744	.1		.0308		
		.25		.0324		
		.5		.0338		
	0745	1		.0352		
	0746	2		.0370		
	0748	4		.0389		
	0753	9		.0418		
	0800	16		.0439		
	0814	30		.0458		
0844	~~0844~~	60		.0477		
0944	~~1044~~	120		.0488		
1144	~~1244~~	240		.0493		
1544	~~1644~~	480		.0499		
	WB 6-20-95					

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CONTINUED ON REVERSE SIDE

ADVANCED TERRA TESTING

CONSOLIDATION TEST DATA SHEET (CONTINUED)

SAIC/PARSONS PO 140
GZ-129 10.0-12.0'
405004

DATE	TIME	E-LAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOL-IDATION
6-21-95	0753		3200	.0501		.0454
			6400		Na	
	0753	.1		~~.0682~~	.0582	
		.25		.0630		
		.5		.0648		
	0754	1		.0662		
	0755	2		.0677		
	0757	4		.0694		
	0802	9		.0716		
	0809	16		.0733		
	0823	30		.0748		
	0853	60		.0759		
	0953	120		.0770		
	1155	240		.0770		
	1553	480		.0773	∴ stone slanted	
6-22-95	655			.0776		
	706			.0776		.0718
		.1	12800	.0906		
		.25		.0935		
		.5		.0950		
	707	1		.0964		
	708	2		.0980		
	710	4		.0997		
	715	9		.1021		
	722	16		.1039		
	736	30		.1057		
	806	60		.1069		
	906	120		.1076		
	1106	240		.1082		
	1506	480		.1085		
6-23-95	0705			.1088		.1011
	0706	1	25600	.1278		
	0707	2		.1299		
	0803			.1420		
	0857			.1428		
	0958			.1432		
	1107			.1434		
	1203			.1436		.1336
	1204	1	6400	.1383		
	1205	2	Rebound	.1378		
	1320			.1357		
	1430			.1356		.1262
	1431	1	1600	.1317		
	1432	2	Rebound	.1310		
	1533			.1239		
6-24-95	0748			.1222		
	1401			.1224		.1140
			400			
	1402	1		.1201		
	1403	2		.1194		
	1418			.1154		
	1455			.1112		~~.1041~~ Na

DATE	TIME	E-LAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOL-IDATION
6-25-95	0732		400	.1039		
	0916			.1039		.0968
			100			
	0918	1		.1028		
	0919	2		.1025		
	0947			.0992		
	1243			.0914		
6-26-95	0733			.0843		
	0918			.0842		
	0957			.0841		.0776

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CONSOLIDATION TEST

ASTM D-2435

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13D

BORING NO.	G2-126	SAMPLED	4-24-95 JM
DEPTH	15-17'	TEST STARTED	6-19-95 REW
SAMPLE NO.	404773	TEST FINISHED	6-29-95 DSR
SOIL DESCR.	Fernald	CELL NUMBER	5

Note: Remolded to 85% MDD

SAMPLE DIA.(in) 2.410

INITIAL HT.(in) 1.000

MOISTURE/DENSITY DATA	BEFORE TEST	AFTER TEST
Wt. Soil & Ring(s) (g)	187.9	191.2
Wt. Ring(s) (g)	46.1	46.1
Wt. Soil (g)	141.8	145.1
Wet Density PCF	118.4	146.1
Wt. Wet Soil & Pan (g)	145.6	148.9
Wt. Dry Soil & Pan (g)	132.7	132.7
Wt. Lost Moisture (g)	12.9	16.3
Wt. of Pan Only (g)	3.8	3.8
Wt. of Dry Soil (g)	128.9	128.9
Moisture Content %	10.0	12.6
Dry Density PCF	107.6	129.7

LOAD (PSF)	CONSOL. (IN.)
100	0.0000
100	-0.0011
200	0.0057
400	0.0199
800	0.0448
1600	0.1087
3200	0.1310
6400	0.1578
12800	0.1779
25600	0.1985
6400	0.1965
1600	0.1907
400	0.1820
100	0.1703

	LOAD (PSF)	LOG p	CONSOL. (IN.)	DEFL. (IN.)	VOID RATIO e
	100	2.000	0.0000	0.0000	0.5605
SATURATE	100	2.000	-0.0011	0.0011	0.5622
	200	2.301	0.0057	-0.0057	0.5516
	400	2.602	0.0199	-0.0199	0.5294
	800	2.903	0.0448	-0.0448	0.4906
	1600	3.204	0.1087	-0.1087	0.3908
	3200	3.505	0.1310	-0.1310	0.3560
	6400	3.806	0.1578	-0.1578	0.3142
	12800	4.107	0.1779	-0.1779	0.2829
	25600	4.408	0.1985	-0.1985	0.2507
	6400	3.806	0.1965	-0.1965	0.2538
	1600	3.204	0.1907	-0.1907	0.2629
	400	2.602	0.1820	-0.1820	0.2765
	100	2.000	0.1703	-0.1703	0.2947

% Saturation	48.2
Sp. Gr. (g/cc)	2.690
Init. Ht. Solids (cm)	1.628
Init. Ht. Voids (cm)	0.912
Init. Void Ratio	0.5605

Data entry by: SR Date: 7-3-95

Data checked by: CJ Date: 8-12-95

FileName:SAC0773

ADVANCED TERRA TESTING, INC.

TIME READING DATA

G2-126
15-17'

1600 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.0472	0.0000
0.1	0.32	0.0884	-0.0412
0.3	0.50	0.0909	-0.0437
0.5	0.71	0.0930	-0.0458
1.0	1.00	0.0955	-0.0483
2.0	1.41	0.0988	-0.0516
4.0	2.00	0.1023	-0.0551
9.0	3.00	0.1061	-0.0589
16.0	4.00	0.1083	-0.0611
30.0	5.48	0.1097	-0.0625
60.0	7.75	0.1105	-0.0633
120.0	10.95	0.1111	-0.0639
240.0	15.49	0.1114	-0.0642
480.0	21.91	0.1118	-0.0646

3200 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.1121	0.0000
0.1	0.32	0.1227	-0.0106
0.3	0.50	0.1240	-0.0119
0.5	0.71	0.1253	-0.0132
1.0	1.00	0.1262	-0.0141
2.0	1.41	0.1276	-0.0155
4.0	2.00	0.1291	-0.0170
9.0	3.00	0.1311	-0.0190
16.0	4.00	0.1326	-0.0205
30.0	5.48	0.1337	-0.0216
60.0	7.75	0.1344	-0.0223
120.0	10.95	0.1347	-0.0226
240.0	15.49	0.1350	-0.0229
480.0	21.91	0.1353	-0.0232

6400 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.1356	0.0000
0.1	0.32	0.1501	-0.0145
0.3	0.50	0.1516	-0.0160
0.5	0.71	0.1526	-0.0170
1.0	1.00	0.1540	-0.0184
2.0	1.41	0.1550	-0.0194
4.0	2.00	0.1565	-0.0209
9.0	3.00	0.1585	-0.0229
16.0	4.00	0.1598	-0.0242
30.0	5.48	0.1608	-0.0252
60.0	7.75	0.1614	-0.0258
120.0	10.95	0.1619	-0.0263
240.0	15.49	0.1622	-0.0266
480.0	21.91	0.1626	-0.0270

12800 psf Load

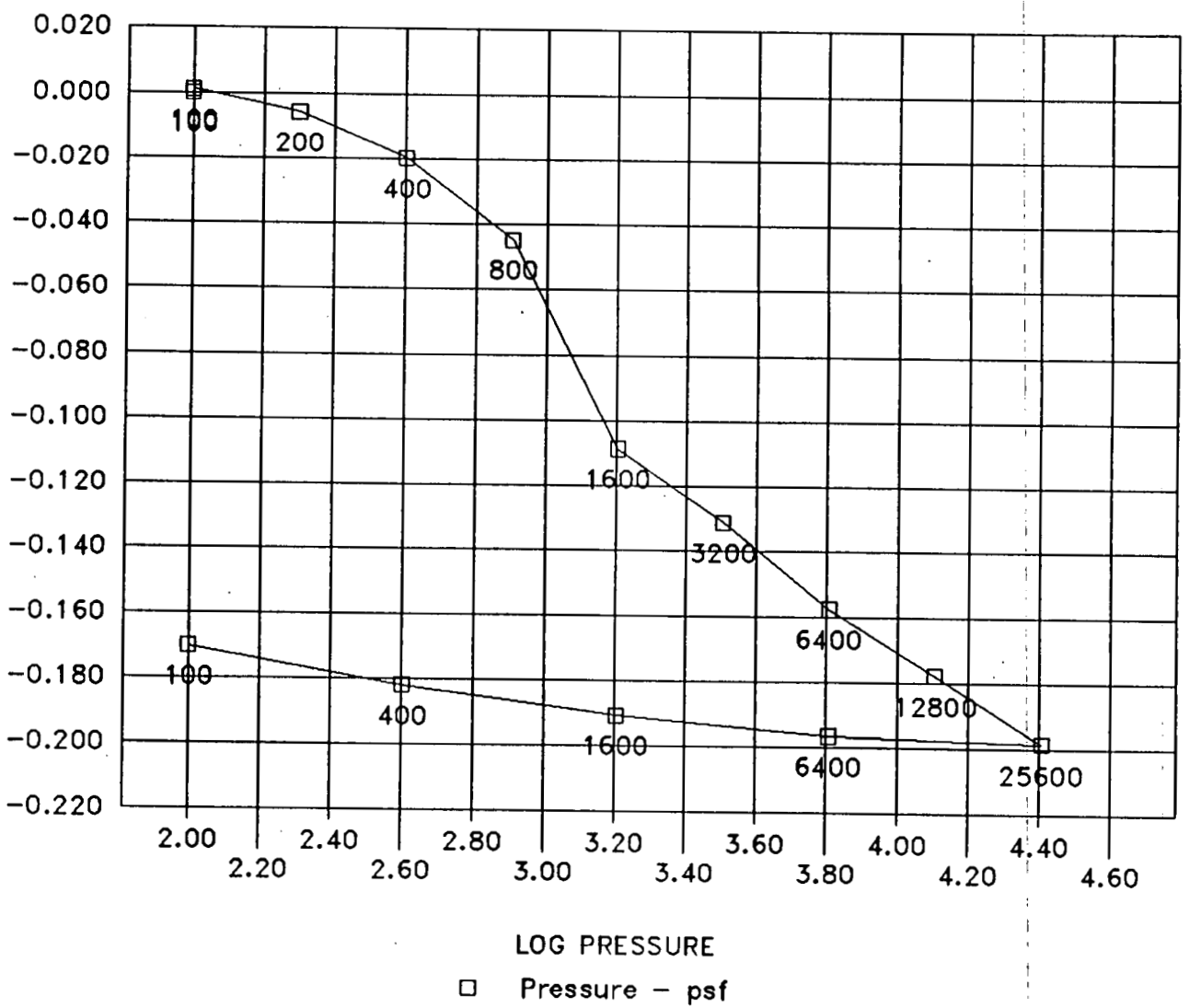
Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.1639	0.0000
0.1	0.32	0.1743	-0.0104
0.3	0.50	0.1755	-0.0116
0.5	0.71	0.1764	-0.0125
1.0	1.00	0.1773	-0.0134
2.0	1.41	0.1785	-0.0146
4.0	2.00	0.1798	-0.0159
9.0	3.00	0.1818	-0.0179
16.0	4.00	0.1830	-0.0191
30.0	5.48	0.1838	-0.0199
60.0	7.75	0.1844	-0.0205
120.0	10.95	0.1849	-0.0210
240.0	15.49	0.1852	-0.0213
480.0	21.91	0.1856	-0.0217

Data entry by: SR Date: 7-3-95
Data checked by: GJ Date: 7-5-95
FileName: SAC0773

ADVANCED TERRA TESTING, INC.

CONSOLIDATION TEST DATA

G2-126,404773,15-17'



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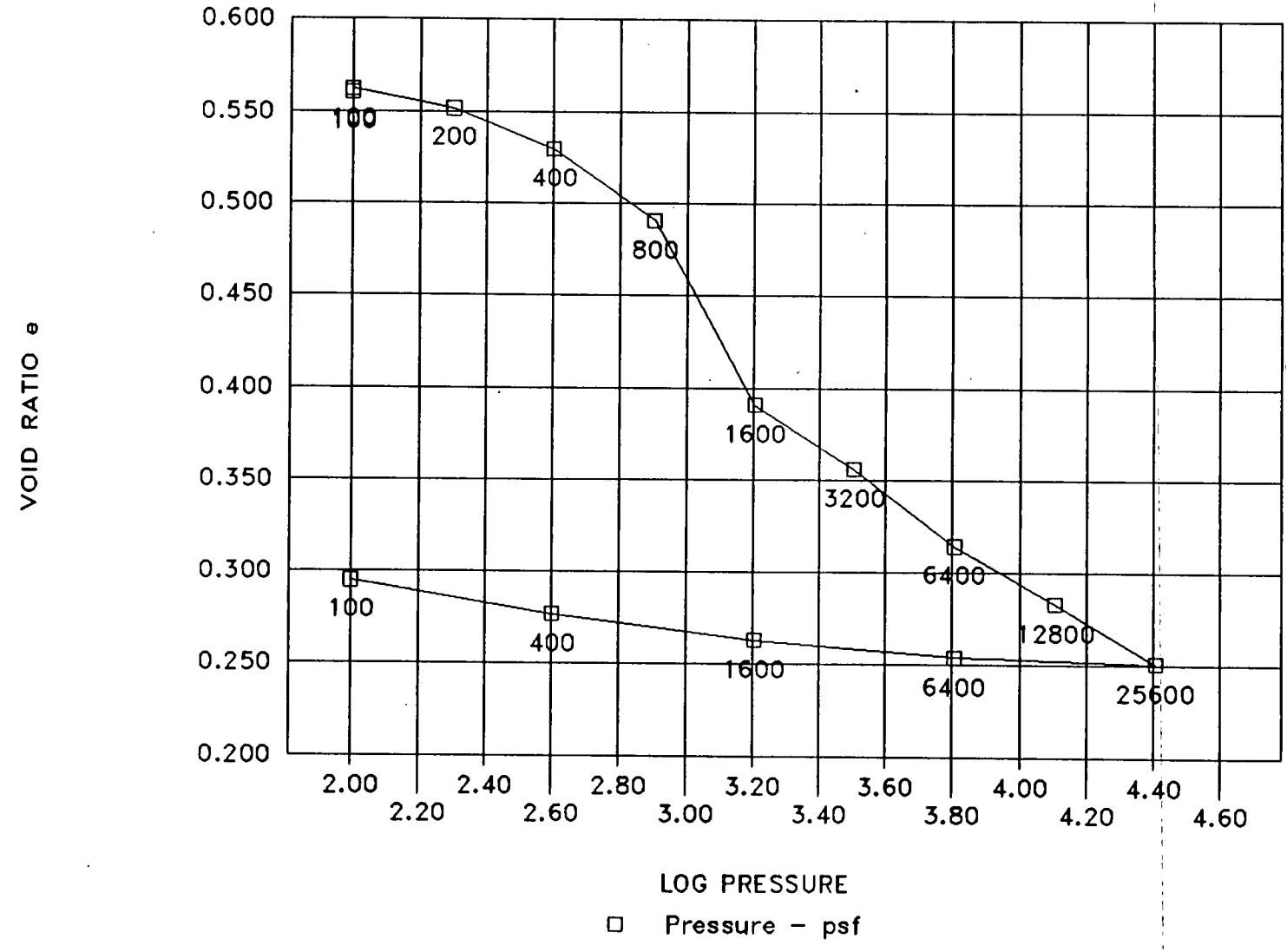
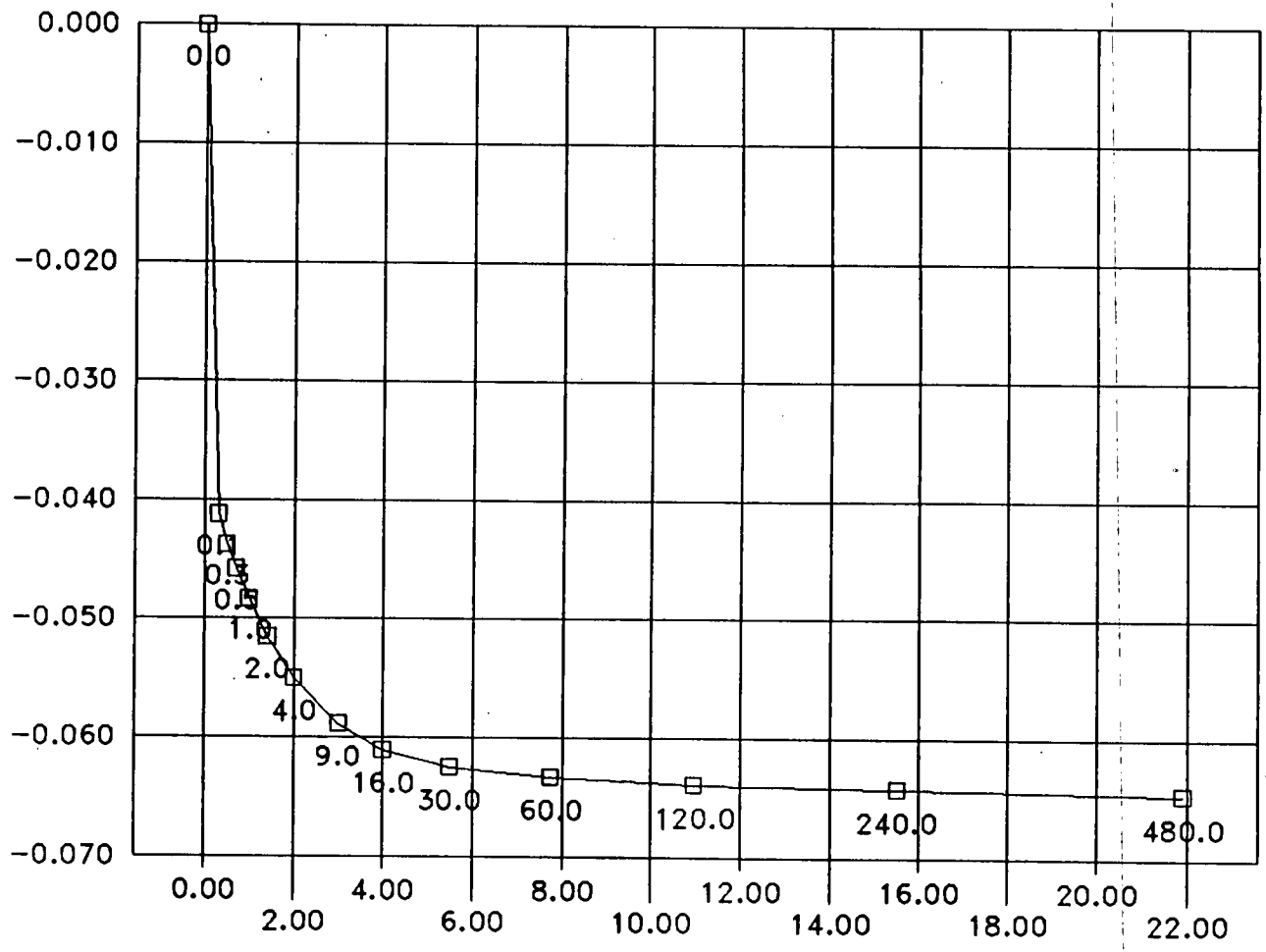
CONSOLIDATION TEST DATA

G2-126,404773,15-17'



TIME READING DATA

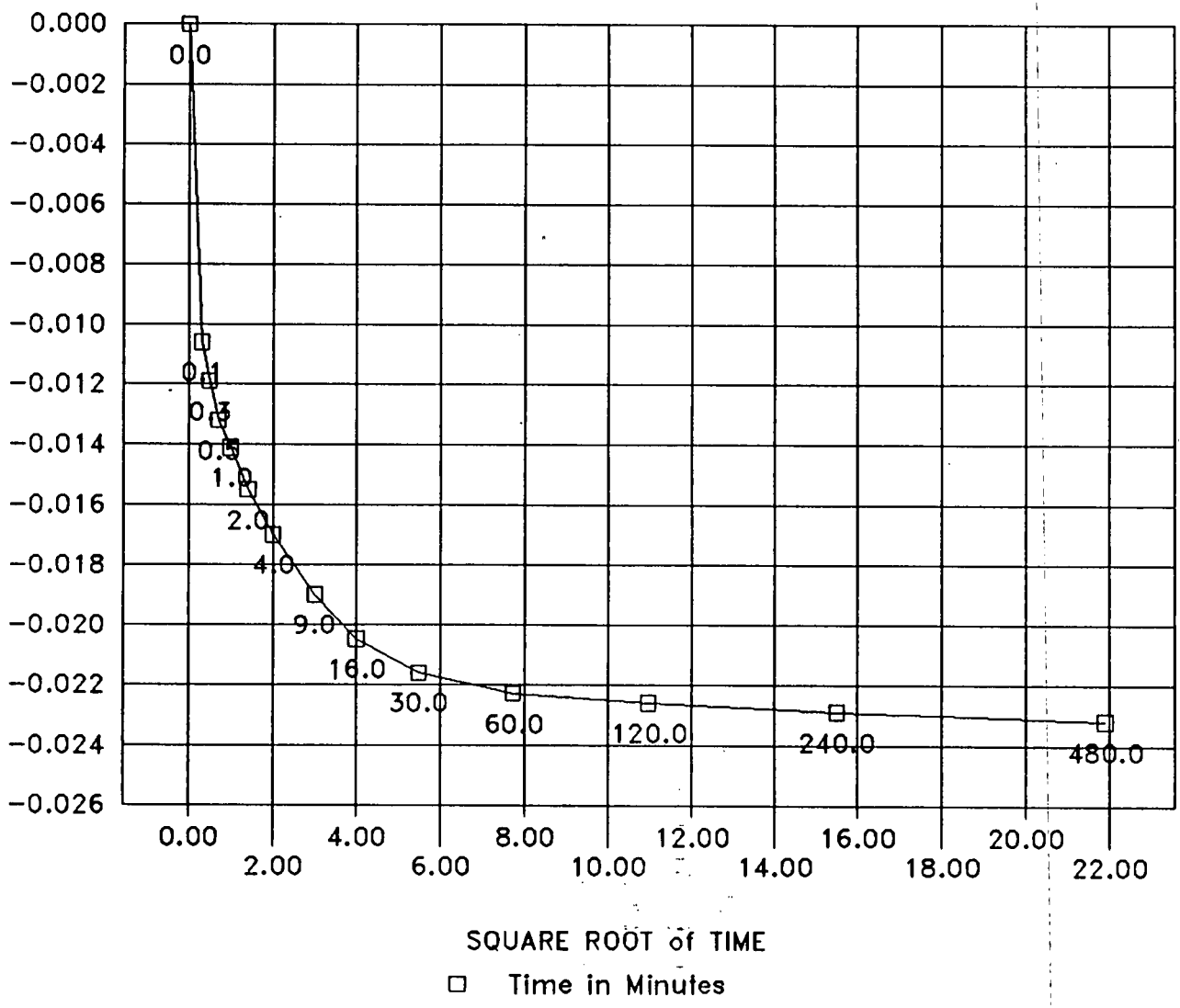
G2-126,404773,15-17',1600 psf Load



□ Time in Minutes

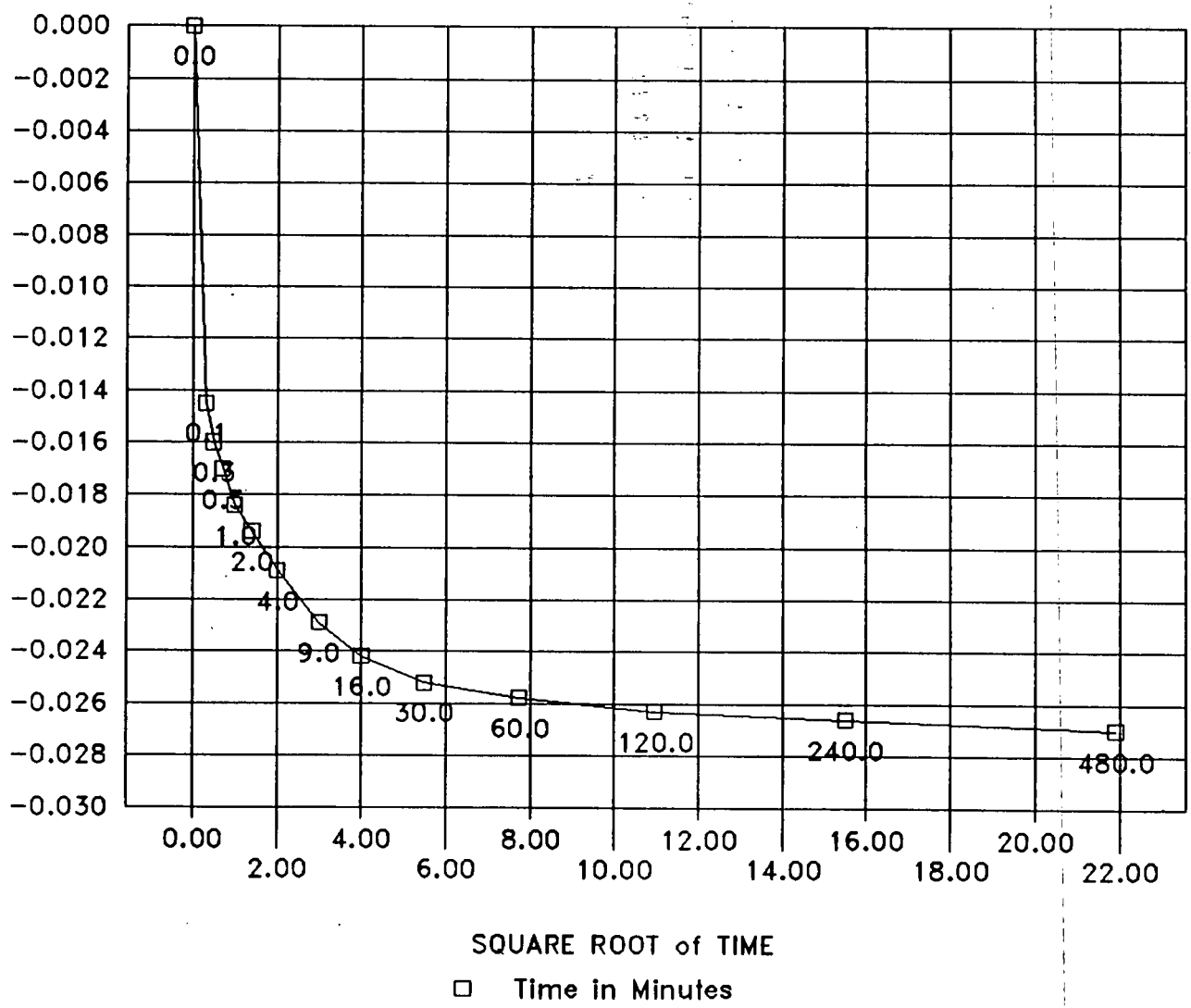
TIME READING DATA

G2-126,404773,15-17',3200 psf Load



TIME READING DATA

G2-126,404773,15-17',6400 psf Load



762

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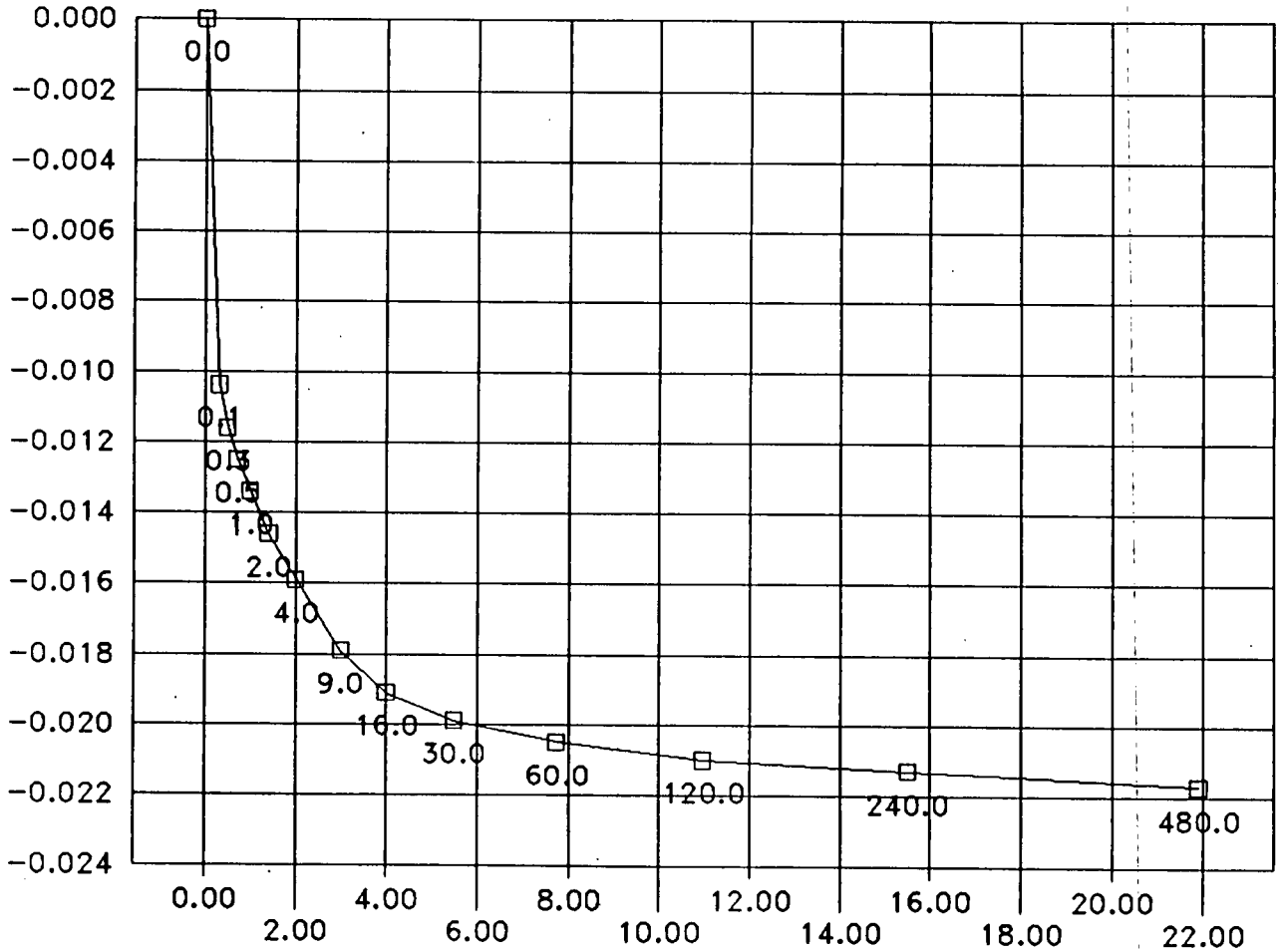
474

TIME READING DATA

G2-126,404773,15-17',12800 psf Load



CONSOLIDATION TEST DATA SHEET

SACC773
SACE773
SACC7731
2
3
4

474

SACØ773

JOB SAIC / Parsons PO 140 — JOB NO. 2059-13 D
DATE SAMPLED 4-24-95 JM — BORING NO. G2-126
TEST STARTED 6-19-95 BY REW TEST FINISHED 6-29-95 BY DSR — DEPTH 15-17'
SOIL TYPE Fernald — Sample # 404773
CONSOLIDOMETER NO. ATT-5 — INITIAL SAMPLE HEIGHT 1.00" Do 2.41"

MOISTURE & DENSITY DATA	BEFORE TEST	AFTER TEST
WT. OF RING(S) + SOIL (g)	187.92	191.23
WT. OF RING(S) ONLY (g)	46.10	46.10
WT. OF SOIL (NET)		
WET DENSITY IN LBS/CU. FT.*		
WT. OF WET SOIL + DISH NO. 207		
INT. OF DRY SOIL + DISH		
WT. OF LOST MOISTURE		
WT. OF DISH ONLY	3.79	3.79
WT. OF DRY SOIL		
MOISTURE AS % OF DRY WT.		
DRY DENSITY IN LBS/CU. FT.		

TEST INSTRUCTIONS

LOAD CYCLE 100 wet 200
400 800 1600TR 3200
6400TR 12800TR 25600 Reb x 2

SPECIAL INSTRUCTION AND NOTES
Remolded
Con r 85

Dry wt soil + pan ring = 178.76 g
SpGr = 2.69
FH = 1.00 - .1703 = .8297"

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOLIDATION
6-19-95			100			
	1617	1		.0005		
	1618	2		.0006		
	1626	10		.0009	.0000	.0000
			wet			
	1627	1		-.0010		
	1628	2		-.0011		
	1738			-.0011	-.0011	-.0011
			200			
	1740	1		.0020		
	1741	2		.0026		
6-20-95	0757			.0057		
	0949			.0061		.0057
			400			
	0950	1		.0177		
	0951	2		.0182		
	1124			.0200		
	1241			.0209		
	1342			.0211		.0199
			800			
	1343	1		.0393		
	1344	2		.0411		
	1451			.0461		
	1559			.0465		
	1715			.0467		.0448
6-21-95	0816			.0472		

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOLIDATION
6-21-95			1600			
	0816	.1		.0884		
		.25		.0909		
		.5		.0930		
	0817	1		.0955		
	0818	2		.0988		
	0820	4		.1023		
	0825	9		.1061		
	0832	16		.1083		
	0846	30		.1097		
	0916	60		.1105		
	1016	120		.1111		
	1216	240		.1114		
	1616	480		.1118		
6-22-95	656			.1120		
	716			.1121		.1087
		.1	3200	.1227		
		.25		.1240		
		.5		.1253		
	717	1		.1262		
	718	2		.1276		
	720	4		.1291		
	725	9		.1311		
	732	16		.1326		
	746	30		.1337		
	816	60		.1344		
	916	120		.1347		
	1116	240		.1350		
	1516	480		.1353		

764 CONTINUED ON REVERSE SIDE

ADVANCED TERRA TESTING

DAIC/I-MESON, [illegible]
G2-126
15-17'
404773

CONSOLIDATION TEST DATA SHEET (CONTINUED)

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOLIDATION
6-23-95	0718		3200(cont)	.1356		.1310
		.1	6400	.1501		
		.25		.1516		
		.5		.1526		
	0719	1		.1540		
	0720	2		.1550		
	0722	4		.1565		
	0727	9		.1585		
	0734	16		.1598		
0748	~~0848~~	30		.1608		
	0818	60		.1614		
	0918	120		.1619		
	1118	240		.1622		
	1518	480		.1626		
6-24-95	0756			.1635		
6-26-95	0716			.1639		.1578
			12800			
		.1		.1743		
		.25		.1755		
		.5		.1764		
	0717	1		.1773		
	0718	2		.1785		
	0720	4		.1798		
	0725	9		.1818		
	0732	16		.1830		
	0746	30		.1838		
	0816	60		.1844		
	0916	120		.1849		
	1116	240		.1853		
	1516	480		.1856		
6-27-95	0715			.1861		.1779
			25600			
	0716	1		.2010		
	0717	2		.2026		
	0813			.2085		
	0922			.2090		
	1323			.2096		.1985
			6400			
	1332	1		.2056		
	1333	2		.2055		
	1515			.2051		
	1644			.2049		.1965
			1600			
	1645	1		.2007		
	1646	2		.2003		
6-28-95	0717			.1973		
	0814			.1972		.1907
			400			
	0815	1		.1936		
	0816	2		.1931		
	0931			.1876		
	1050			.1870		
	1347			.1866		.1820
			100			
	1348	1		.1859		

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOLIDATION
6-28-95	1349	2	100	.1856		
	1507			.1793		
	1419			.1773		
	1718			.1764		
6-29-95	0744			.1742		
	0850			.1741		.1703

ATT 6

765

CONSOLIDATION TEST
ASTM D-2435

CLIENT SAIC/Parsons PO 140 JOB NO. 2059-13B

BORING NO.	G2-128	SAMPLED	4-19-95 MM
DEPTH	12.5-14.5'	TEST STARTED	7-3-95 WEB
SAMPLE NO.	405046	TEST FINISHED	7-10-95 DSR
SOIL DESCR.	Fernald	CELL NUMBER	ATT-15
Note: Remolded to 85% MDD			
SAMPLE DIA.(in)	2.410	INITIAL HT.(in)	1.000

MOISTURE/DENSITY DATA	BEFORE TEST	AFTER TEST
Wt. Soil & Ring(s) (g)	186.6	188.4
Wt. Ring(s) (g)	45.8	45.8
Wt. Soil (g)	140.7	142.5
Wet Density PCF	117.5	142.9
Wt. Wet Soil & Pan (g)	144.4	146.2
Wt. Dry Soil & Pan (g)	128.8	128.8
Wt. Lost Moisture (g)	15.6	17.4
Wt. of Pan Only (g)	3.7	3.7
Wt. of Dry Soil (g)	125.1	125.1
Moisture Content %	12.5	13.9
Dry Density PCF	104.5	125.4

LOAD (PSF)	CONSOL. (IN.)
100	0.0000
100	-0.0028
200	0.0020
400	0.0254
800	0.0634
1600	0.0956
3200	0.1243
6400	0.1483
12800	0.1766
25600	0.1999
6400	0.1926
1600	0.1844
400	0.1740
100	0.1671

	LOAD (PSF)	LOG p	CONSOL. (IN.)	DEFL. (IN.)	VOID RATIO e
	100	2.000	0.0000	0.0000	0.6314
Saturate	100	2.000	-0.0028	0.0028	0.6360
	200	2.301	0.0020	-0.0020	0.6281
	400	2.602	0.0254	-0.0254	0.5900
	800	2.903	0.0634	-0.0634	0.5280
	1600	3.204	0.0956	-0.0956	0.4754
	3200	3.505	0.1243	-0.1243	0.4286
	6400	3.806	0.1483	-0.1483	0.3895
	12800	4.107	0.1766	-0.1766	0.3433
	25600	4.408	0.1999	-0.1999	0.3053
	6400	3.806	0.1926	-0.1926	0.3172
	1600	3.204	0.1844	-0.1844	0.3306
	400	2.602	0.1740	-0.1740	0.3475
	100	2.000	0.1671	-0.1671	0.3588

% Saturation	54.1
Sp. Gr. (g/cc)	2.730
Init. Ht. Solids (cm)	1.557
Init. Ht. Voids (cm)	0.983
Init. Void Ratio	0.6314

Data entry by: NAA Date: 7-11-95
Data checked by: (W) Date: 8-12-95
FileName:SAC04685

ADVANCED TERRA TESTING, INC.

TIME READING DATA

G2-128
12.5-14.5'

1600 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.1744	0.0000
0.1	0.32	0.1930	-0.0186
0.3	0.50	0.1954	-0.0210
0.5	0.71	0.1971	-0.0227
1.0	1.00	0.1988	-0.0244
2.0	1.41	0.2006	-0.0262
4.0	2.00	0.2025	-0.0281
9.0	3.00	0.2042	-0.0298
16.0	4.00	0.2053	-0.0309
30.0	5.48	0.2062	-0.0318
62.0	7.87	0.2069	-0.0325
120.0	10.95	0.2073	-0.0329
240.0	15.49	0.2077	-0.0333
480.0	21.91	0.2081	-0.0337

3200 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.2082	0.0000
0.1	0.32	0.2248	-0.0166
0.3	0.50	0.2265	-0.0183
0.5	0.71	0.2277	-0.0195
1.0	1.00	0.2290	-0.0208
2.0	1.41	0.2304	-0.0222
4.0	2.00	0.2321	-0.0239
9.0	3.00	0.2338	-0.0256
16.0	4.00	0.2358	-0.0276
30.0	5.48	0.2371	-0.0289
60.0	7.75	0.2379	-0.0297
120.0	10.95	0.2384	-0.0302
240.0	15.49	0.2389	-0.0307
480.0	21.91	0.2393	-0.0311

6400 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.2395	0.0000
0.1	0.32	0.2511	-0.0116
0.3	0.50	0.2527	-0.0132
0.5	0.71	0.2537	-0.0142
1.0	1.00	0.2548	-0.0153
2.0	1.41	0.2562	-0.0167
4.0	2.00	0.2578	-0.0183
9.0	3.00	0.2601	-0.0206
16.0	4.00	0.2612	-0.0217
30.0	5.48	0.2628	-0.0233
60.0	7.75	0.2635	-0.0240
120.0	10.95	0.2639	-0.0244
240.0	15.49	0.2645	-0.0250
480.0	21.91	0.2648	-0.0253

12800 psf Load

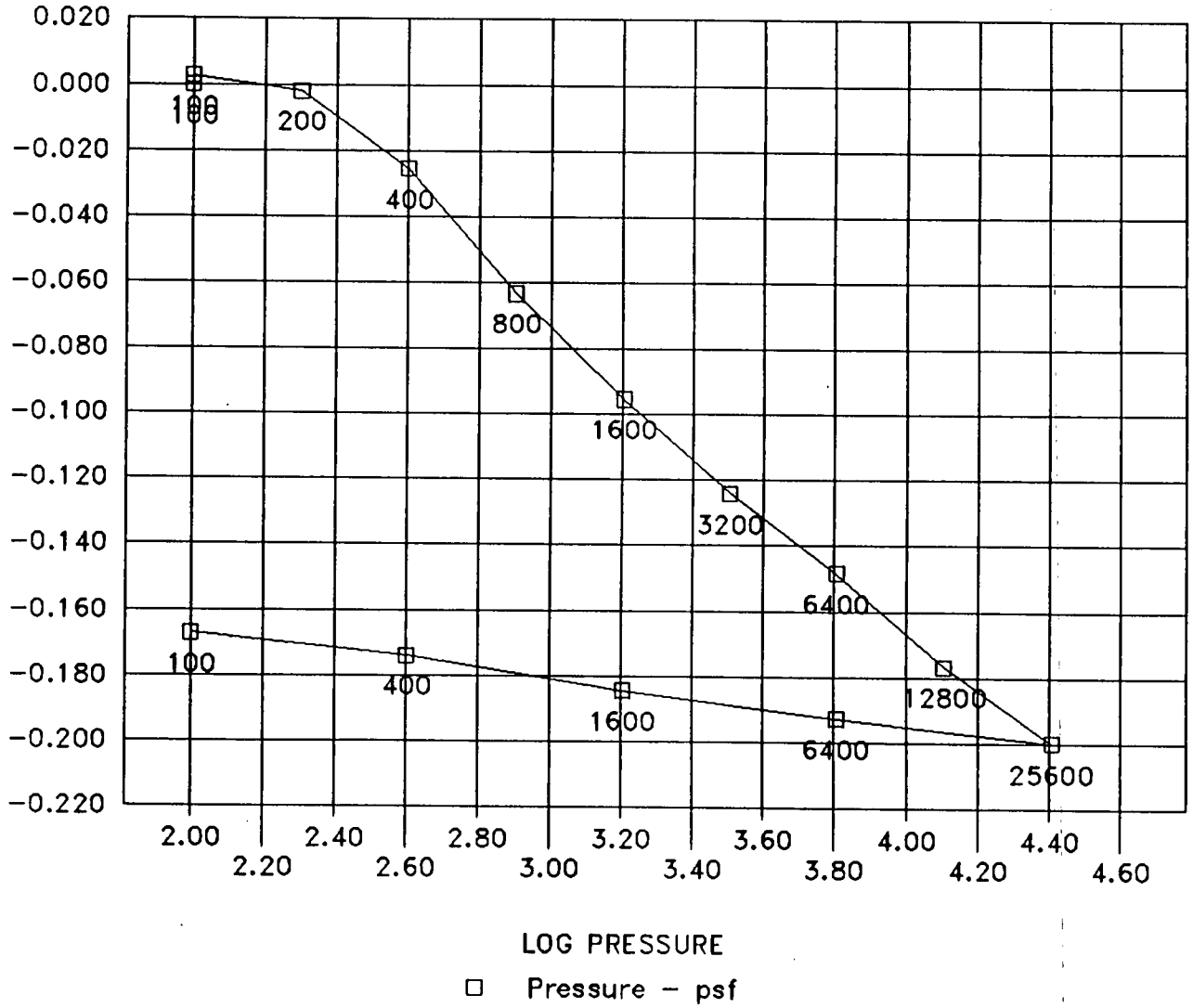
Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.2650	0.0000
0.1	0.32	0.2788	-0.0138
0.3	0.50	0.2802	-0.0152
0.5	0.71	0.2813	-0.0163
1.0	1.00	0.2829	-0.0179
2.0	1.41	0.2847	-0.0197
4.0	2.00	0.2870	-0.0220
9.0	3.00	0.2898	-0.0248
16.0	4.00	0.2916	-0.0266
30.0	5.48	0.2928	-0.0278
60.0	7.75	0.2937	-0.0287
120.0	10.95	0.2942	-0.0292
240.0	15.49	0.2946	-0.0296
480.0	21.91	0.2950	-0.0300

Data entry by: NAA Date: 7-11-95
Data checked by: MGJ Date: 7-11-95
FileName: SAC04685

ADVANCED TERRA TESTING, INC.

CONSOLIDATION TEST DATA

G2-128,405046,12.5-14.5'



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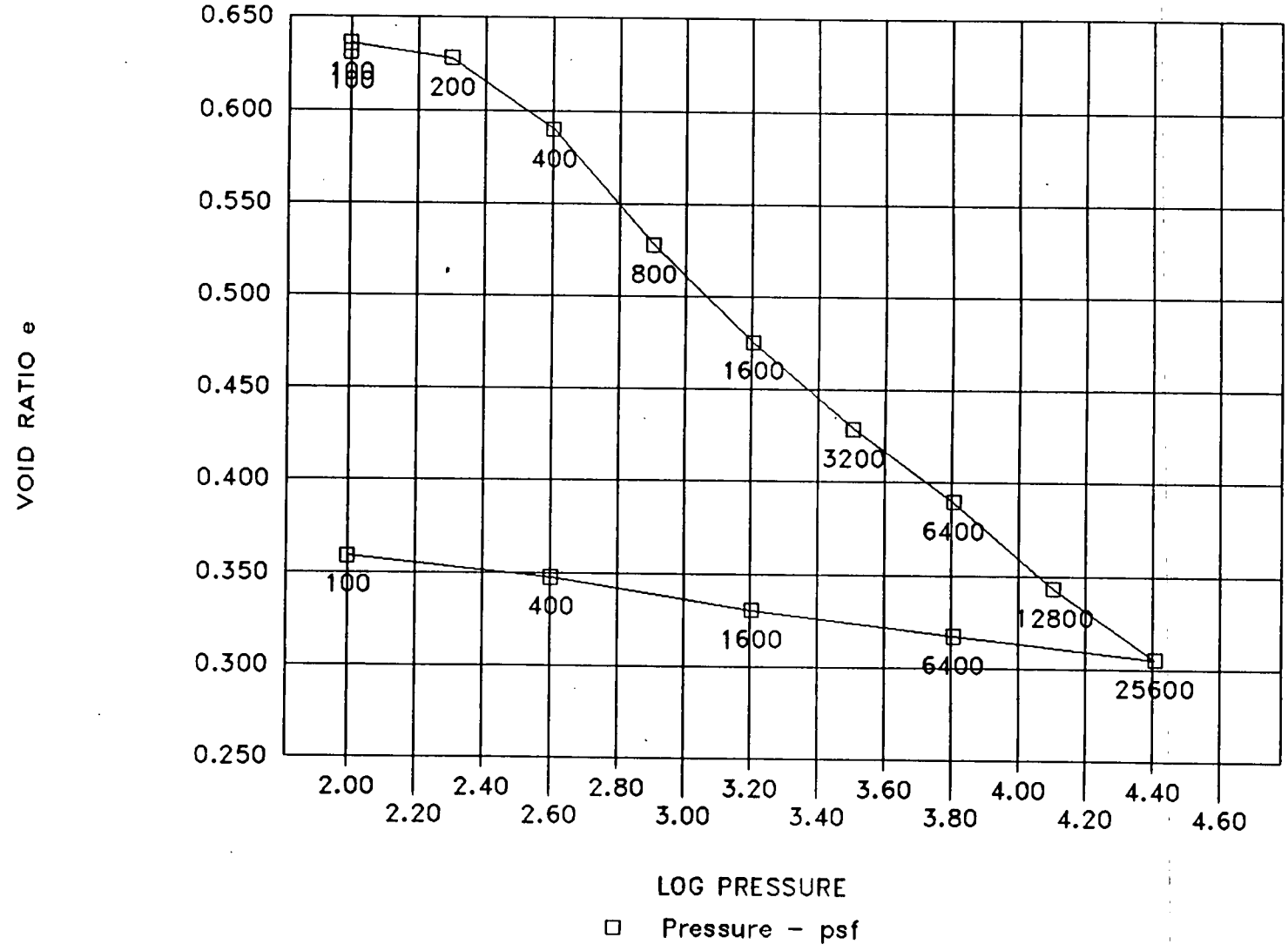
474

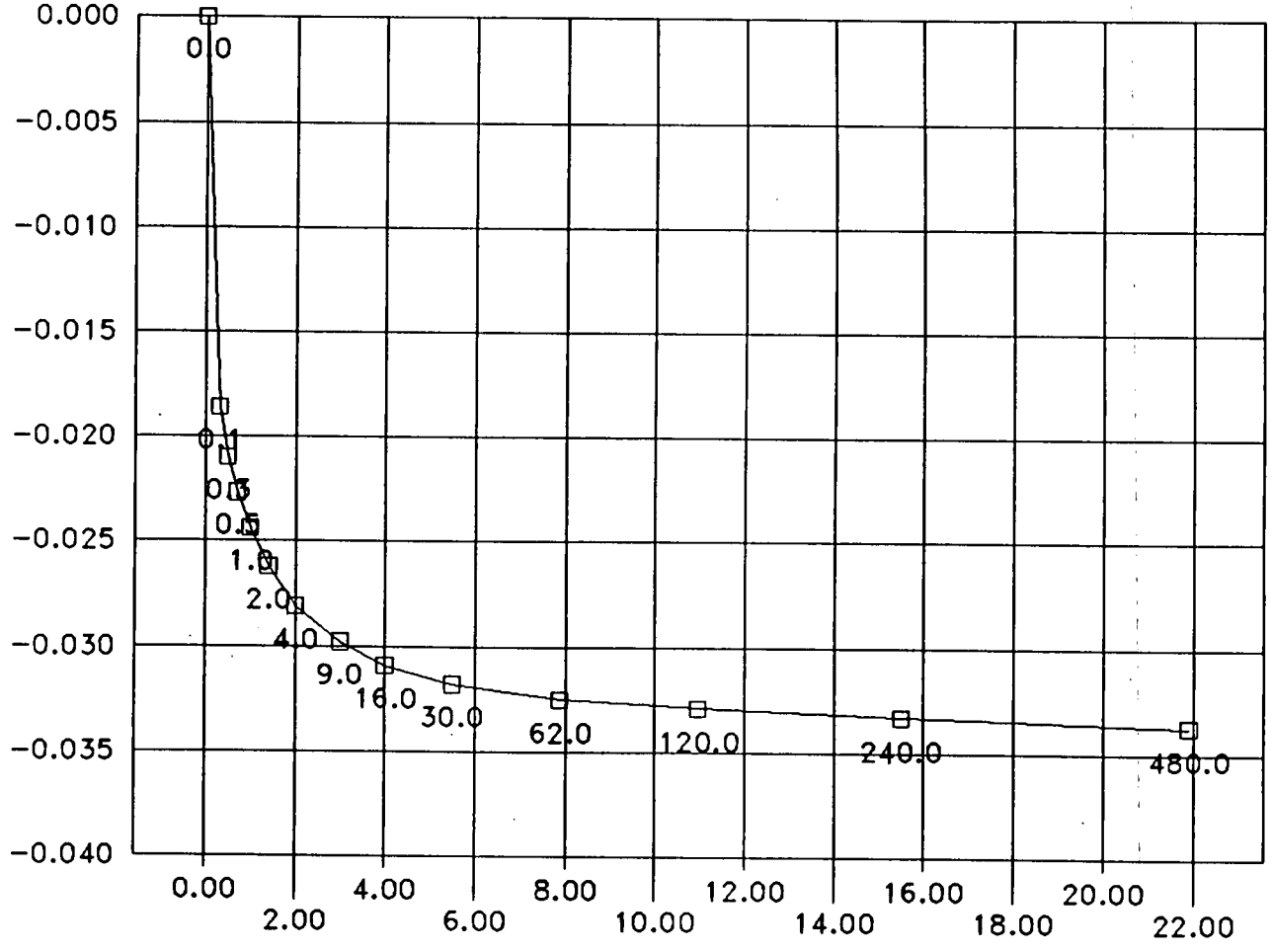
CONSOLIDATION TEST DATA

G2-128,405046,12.5-14.5'



TIME READING DATA

G2-128,405046,12.5-14.5',1600 psf Load



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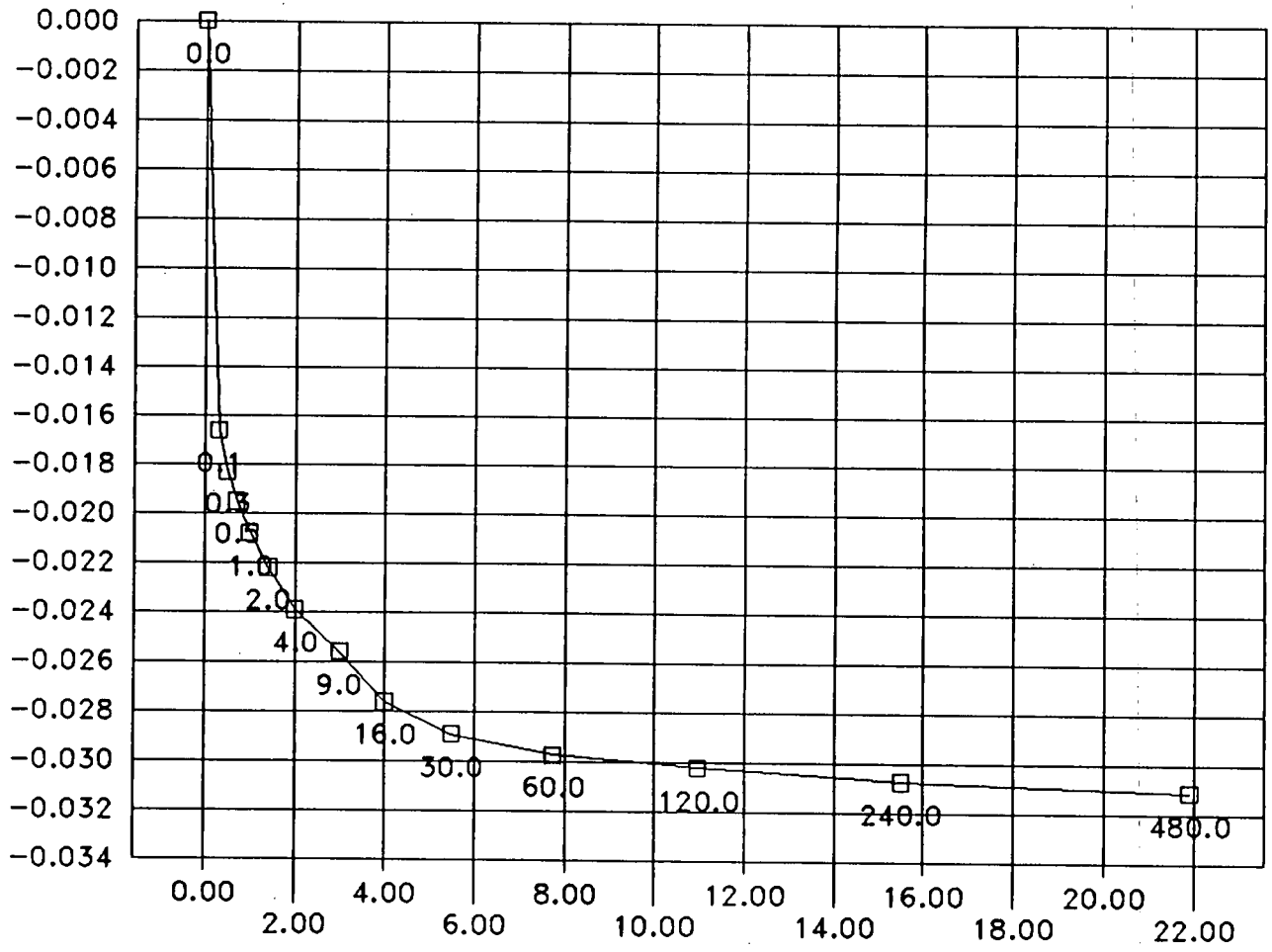
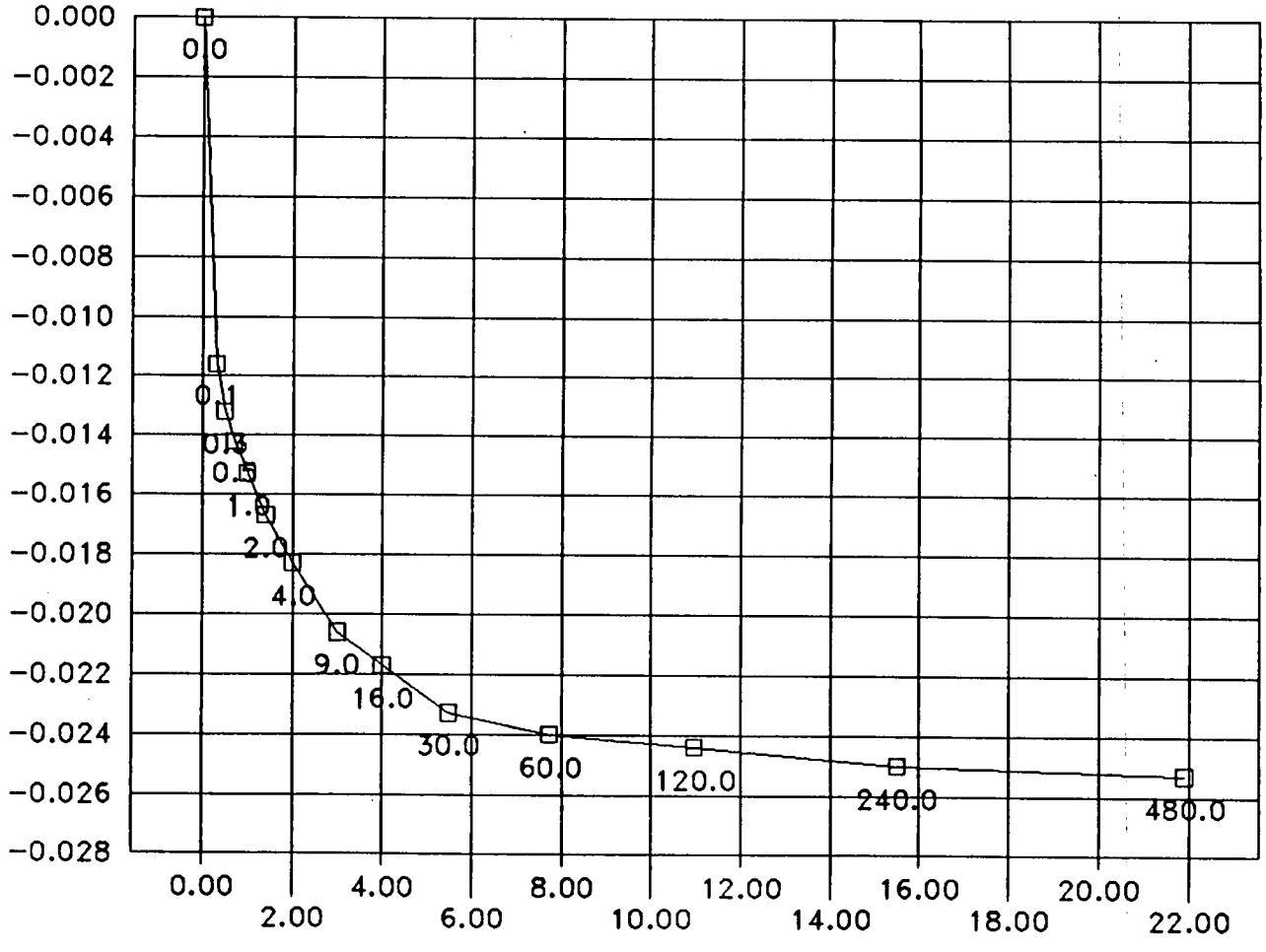
TIME READING DATA

G2-128,405046,12.5-14.5',3200 psf Load



TIME READING DATA

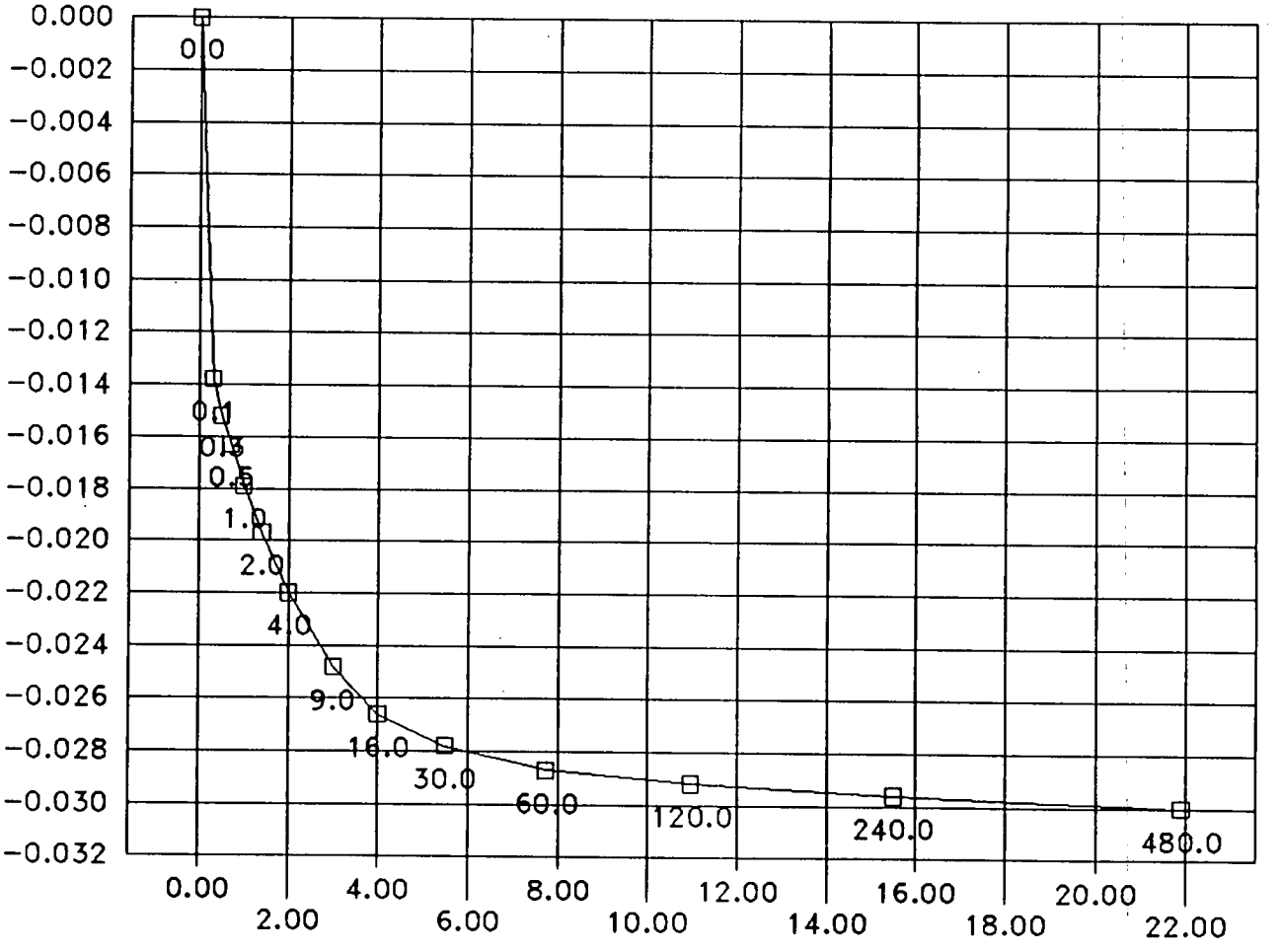
G2-128,405046,12.5-14.5',6400 psf Load



□ Time in Minutes

TIME READING DATA

G2-128,405046,12.5-14.5',12800 psf Load



773

000837

474

SACD 4083 SACD 4083 474

CONSOLIDATION TEST DATA SHEET

SACC 4685 2
SACG 4685 3
4

JOB SAIC / PARSONS PO140 JOB NO. 2059-13B

DATE SAMPLED 4-19-95 mm BORING NO. 62-128

TEST STARTED 7-3-95 BY WEB TEST FINISHED 7-10-95 BY DSR DEPTH 12.5 - 14.5

SOIL TYPE Sample 405046

CONSOLIDOMETER NO. ATT-15 INITIAL SAMPLE HEIGHT = 1.00" D_o = 2.41"

MOISTURE & DENSITY DATA		BEFORE TEST	AFTER TEST
WT. OF RING(S) + SOIL	g	186.58	188.57
WT. OF RING(S) ONLY	g	45.84	45.84
WT. OF SOIL (NET)			
WET DENSITY IN LBS/CU. FT.*			
WT. OF WET SOIL + DISH NO. 20B			
INT. OF DRY SOIL + DISH			
WT. OF LOST MOISTURE			
WT. OF DISH ONLY	g	3.66	3.66
WT. OF DRY SOIL			
MOISTURE AS % OF DRY WT.			
DRY DENSITY IN LBS/CU. FT.			

TEST INSTRUCTIONS

LOAD CYCLE 100 WET 200
400 800 1600 TR 3200
6400 TR 12800 TR 25600 Reb x2

SPECIAL INSTRUCTION AND NOTES

Dry WT Soil + Ring + Pan = 174.6

Remolded 85% @ opt. Moisture

SpGr = 2.73

DATE	TIME	E-LAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOL-IDATION
7-3-95	0907	0	100	.1079		
	0917	10		.1078		.0000
			WET			
	0919	1		.1052		
	0920	2		.1050		
	1034			.1050		.0028
			200			
	1035	1		.1078		
	1036	2		.1082		
	1144			.1103		
	1401			.1106	.0026	.0020
			400			
	1402	1		.1295		
	1403	2		.1311		
	1520			.1347		
	1626			.1350	.0272	.0254
			800			
	1627	1		.1669		
	1628	2		.1689		
	1729			.1734		
7-4-95	1011			.1744	.0666	.0634
		.	1600			
		.1		.1930		
		.25		.1954		
		.5		.1971		
	1012	1		.1988		
	1013	2		.2006		
	1015	4		.2025		
	1020	9		.2042		
	1027	16		.2053		

DATE	TIME	E-LAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOL-IDATION
7-4-95	1041	30	.2062	~~.2062~~		
1113	~~1111~~	~~60~~ 62		.2069		
	1211	120		.2073		
	1411	240		.2077		
	1811	480		.2081		
7-5-95	0740			.2082	.1004	.0956
			3200			
		.1		.2248		
		.25		.2265		
		.5		.2277		
	0741	1		.2290		
	0742	2		.2304		
	0744	4		.2321		
	0749	9		.2338		
	0756	16		.2358		
	0810	30		.2371		
	0840	60		.2379		
	0940	120		.2384		
	1140	240		.2389		
	1540	480		.2393		
7-6-95	0717			.2395	.1317	.1243
			6400			
		.1		.2511		
		.25		.2527		
		.5		.2537		
	0718	1		.2548		
	0719	2		.2562		
	0721	4		.2578		
	0726	9		.2601		
	0733	16		.2612		

774 CONTINUED ON REVERSE SIDE

ADVANCED TERRA TESTING

SHILIFARSON
G2-128
12.5-14.5'
405046 Con ros

CONSOLIDATION TEST DATA SHEET (CONTINUED)

DATE	TIME	E-LAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOL-IDATION
7-6-95	0747	30	6400 cont	.2628		
	0817	60		.2635		
	0917	120		.2639		
	1117	240		.2645		
	1517	480		.2648		
7-7-95	0722			.2650	.1572	.1483
			12800			
		.1		.2788		
		.25		.2802		
		.5		.2813		
	0723	1		.2829		
	0724	2		.2847		
	0726	4		.2870		
	0731	9		.2898		
	0738	16		.2916		
	0752	30		.2928		
	0822	60		.2937		
	0922	120		.2942		
	1122	240		.2946		
	1522	480		.2950		
7-8-95	830			.2954	.1876	.1766
	831	1	25600	.3082		
	832	2		.3108		
	931			.3191		
	1116			.3200		
	1337			.3206		
7-9-95	1002			.3212	.2134	.1999
			6400			
	1015	1		.3166		
	1016	2		.3163		
	1025			.3157		
	1110			.3155		
	1245			.3155	.2077	.1926
			1600			
	1249	1		.3112		
	1250	2		.3102		
	1314			.3067		
	1453			.3060		
	1656			.3058		
	1855			.3057	.1979	.1844
			400			
	1859	1		.3031		
	1900	2		.3024		
	1943			.2968		
7-10-95	0709			.2942		
	0821			.2942	.1864	.1740
		≠	100			
	0822	<1		.2931		
	0823	2		.2929		
	0915			~~.2844~~ .2863		
	1000			.2881		
	1102			.2871		
	1251			.2863		
	1359			.2861	.1783	.1671

775 ATT-15

000839

CONSOLIDATION TEST
ASTM D-2435

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13H

BORING NO.	G2-130	SAMPLED	4-24-95 MM
DEPTH	15.0-17.0'	TEST STARTED	7-2-95 WEB
SAMPLE NO.	405080	TEST FINISHED	7-10-95 DSR
SOIL DESCR.	Fernald	CELL NUMBER	ATT-16
Note: Remolded to 85% MDD			
SAMPLE DIA.(in)	2.410	INITIAL HT.(in)	1.000

MOISTURE/DENSITY DATA	BEFORE TEST	AFTER TEST
Wt. Soil & Ring(s) (g)	187.5	190.0
Wt. Ring(s) (g)	45.8	45.8
Wt. Soil (g)	141.7	144.2
Wet Density PCF	118.3	142.6
Wt. Wet Soil & Pan (g)	145.4	148.0
Wt. Dry Soil & Pan (g)	133.4	133.4
Wt. Lost Moisture (g)	12.0	14.6
Wt. of Pan Only (g)	3.7	3.7
Wt. of Dry Soil (g)	129.7	129.7
Moisture Content %	9.3	11.2
Dry Density PCF	108.3	128.2

LOAD (PSF)	CONSOL. (IN.)
100	0.0000
100	-0.0009
200	0.0020
400	0.0241
800	0.0611
1600	0.0933
3200	0.1180
6400	0.1360
12800	0.1607
25600	0.1785
6400	0.1700
1600	0.1663
400	0.1607
100	0.1550

	LOAD (PSF)	LOG p	CONSOL. (IN.)	DEFL. (IN.)	VOID RATIO e
	100	2.000	0.0000	0.0000	0.6082
Saturate	100	2.000	-0.0009	0.0009	0.6097
	200	2.301	0.0020	-0.0020	0.6050
	400	2.602	0.0241	-0.0241	0.5695
	800	2.903	0.0611	-0.0611	0.5100
	1600	3.204	0.0933	-0.0933	0.4582
	3200	3.505	0.1180	-0.1180	0.4185
	6400	3.806	0.1360	-0.1360	0.3895
	12800	4.107	0.1607	-0.1607	0.3498
	25600	4.408	0.1785	-0.1785	0.3212
	6400	3.806	0.1700	-0.1700	0.3348
	1600	3.204	0.1663	-0.1663	0.3408
	400	2.602	0.1607	-0.1607	0.3498
	100	2.000	0.1550	-0.1550	0.3590

% Saturation	42.4
Sp. Gr. (g/cc)	2.790
Init. Ht. Solids (cm)	1.579
Init. Ht. Voids (cm)	0.961
Init. Void Ratio	0.6082

Data entry by: NAA Date: 7-11-95
Data checked by: CW Date: 8-12-95
FileName:SAC08085

ADVANCED TERRA TESTING, INC.

TIME READING DATA

G2-130
15.0-17.0'

1600 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.1884	0.0000
0.1	0.32	0.2092	-0.0208
0.3	0.50	0.2113	-0.0229
0.5	0.71	0.2131	-0.0247
1.0	1.00	0.2150	-0.0266
2.0	1.41	0.2166	-0.0282
4.0	2.00	0.2181	-0.0297
9.0	3.00	0.2194	-0.0310
16.0	4.00	0.2200	-0.0316
30.0	5.48	0.2204	-0.0320
60.0	7.75	0.2208	-0.0324
120.0	10.95	0.2211	-0.0327
240.0	15.49	0.2214	-0.0330
480.0	21.91	0.2218	-0.0334

3200 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.2219	0.0000
0.1	0.32	0.2380	-0.0161
0.3	0.50	0.2396	-0.0177
0.5	0.71	0.2406	-0.0187
1.0	1.00	0.2418	-0.0199
2.0	1.41	0.2430	-0.0211
4.0	2.00	0.2443	-0.0224
9.0	3.00	0.2456	-0.0237
16.0	4.00	0.2463	-0.0244
30.0	5.48	0.2468	-0.0249
60.0	7.75	0.2472	-0.0253
120.0	10.95	0.2476	-0.0257
240.0	15.49	0.2480	-0.0261
480.0	21.91	0.2483	-0.0264

6400 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.2485	0.0000
0.1	0.32	0.2600	-0.0115
0.3	0.50	0.2615	-0.0130
0.5	0.71	0.2625	-0.0140
1.0	1.00	0.2635	-0.0150
2.0	1.41	0.2644	-0.0159
4.0	2.00	0.2650	-0.0165
9.0	3.00	0.2662	-0.0177
16.0	4.00	0.2668	-0.0183
30.0	5.48	0.2672	-0.0187
60.0	7.75	0.2675	-0.0190
120.0	10.95	0.2679	-0.0194
240.0	15.49	0.2682	-0.0197
480.0	21.91	0.2685	-0.0200

12800 psf Load

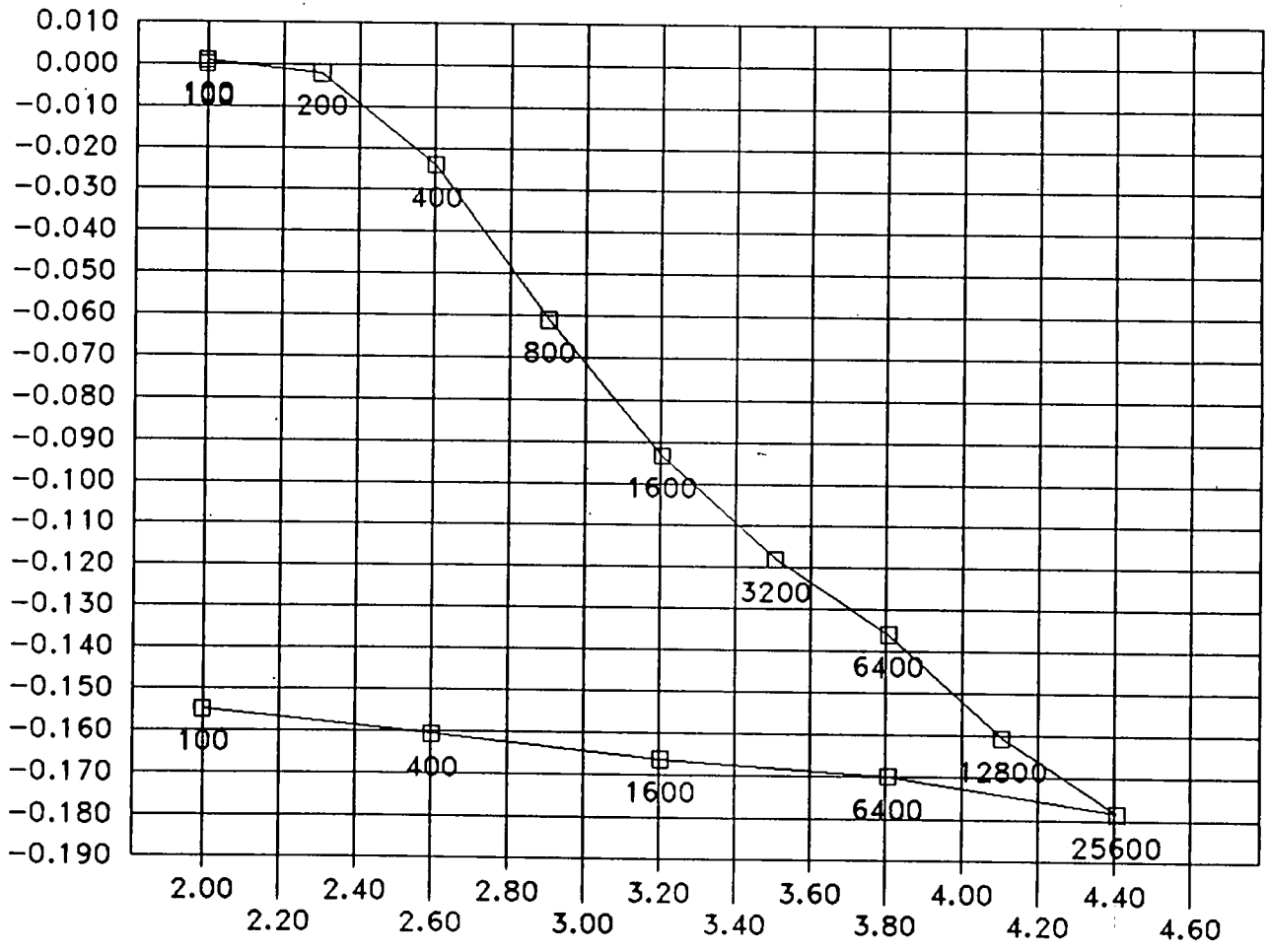
Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.2686	0.0000
0.1	0.32	0.2869	-0.0183
0.3	0.50	0.2880	-0.0194
0.5	0.71	0.2889	-0.0203
1.0	1.00	0.2898	-0.0212
2.0	1.41	0.2907	-0.0221
4.0	2.00	0.2917	-0.0231
9.0	3.00	0.2929	-0.0243
16.0	4.00	0.2936	-0.0250
30.0	5.48	0.2942	-0.0256
60.0	7.75	0.2946	-0.0260
120.0	10.95	0.2951	-0.0265
240.0	15.49	0.2954	-0.0268
480.0	21.91	0.2958	-0.0272

Data entry by: NAA Date: 7-11-95
Data checked by: MGJ Date: 7-11-95
FileName:SAC08085

ADVANCED TERRA TESTING, INC.

CONSOLIDATION TEST DATA

G2-130,405080,15.0-17.0'



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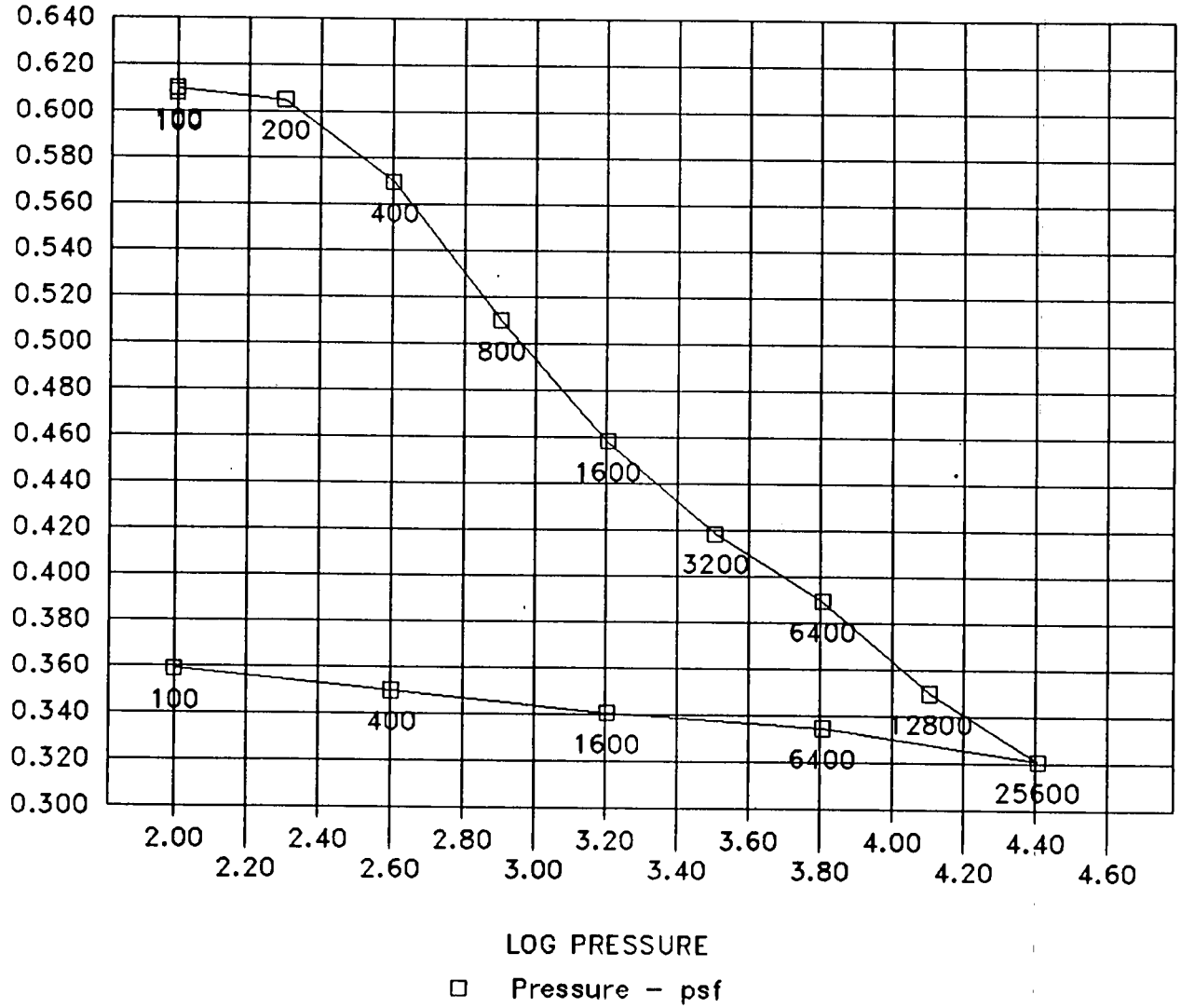
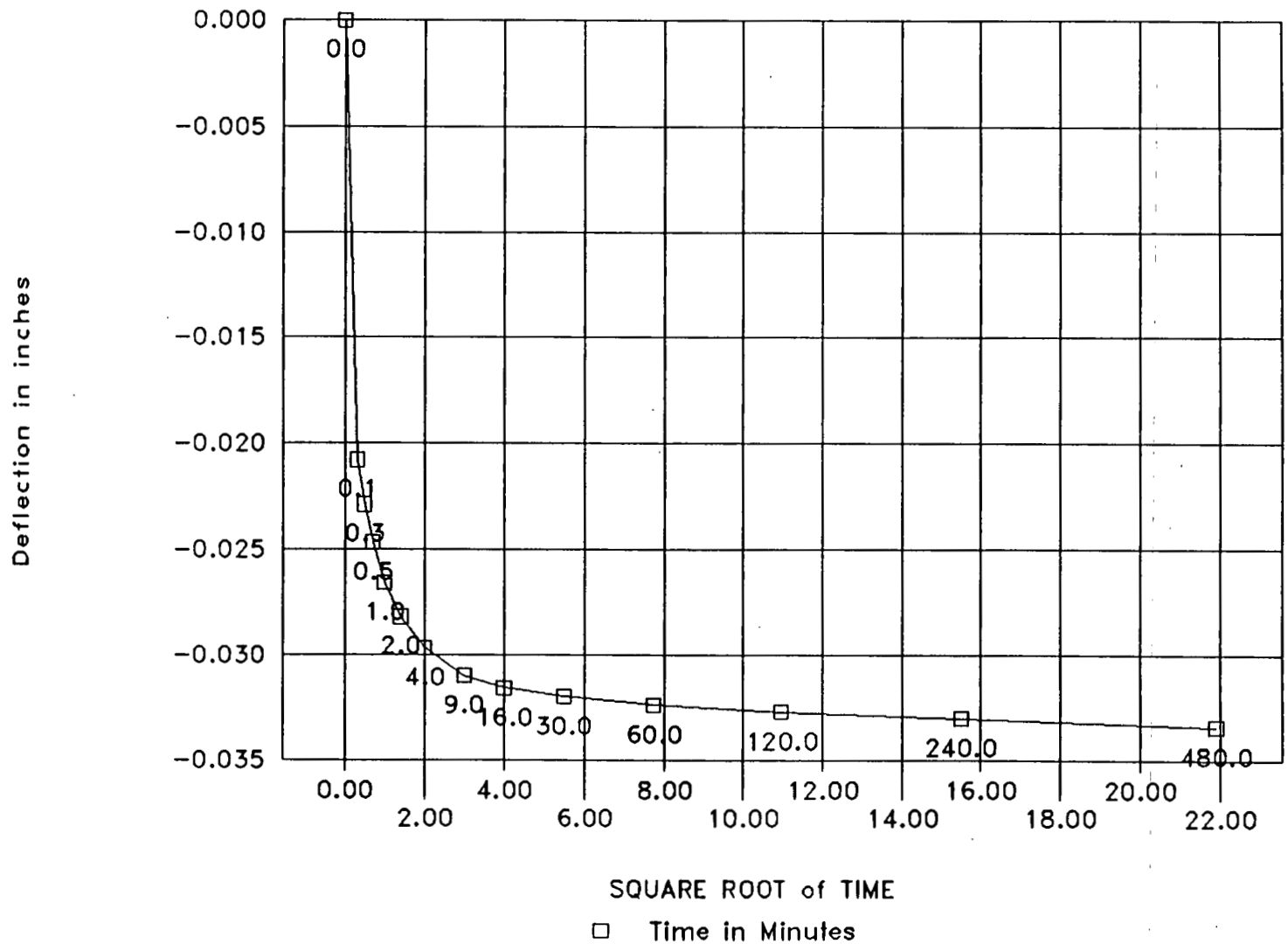
CONSOLIDATION TEST DATA

G2-130,405080,15.0-17.0'



TIME READING DATA

G2-130,405080,15.0-17.0',1600 psf Load



780

000844

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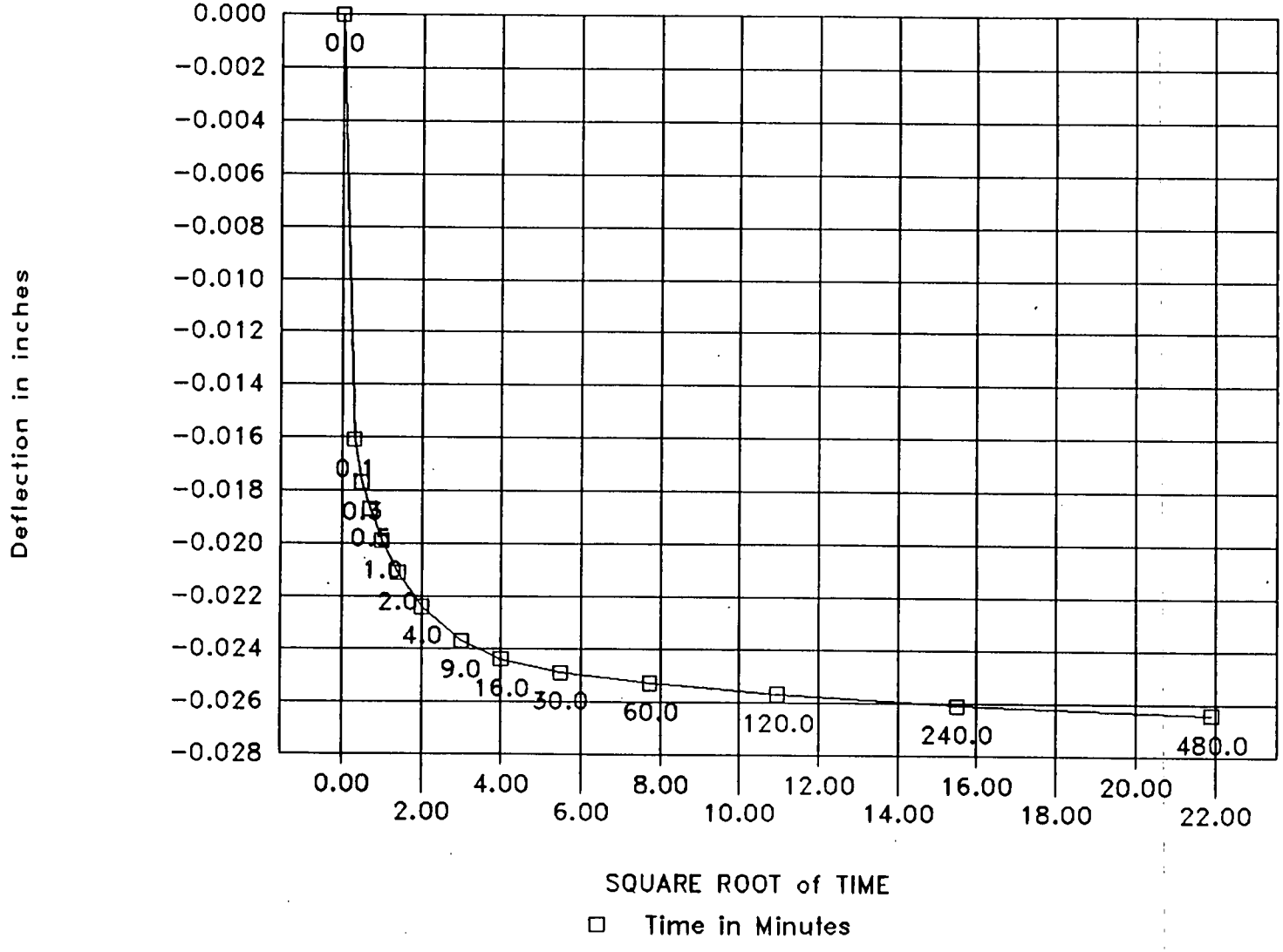
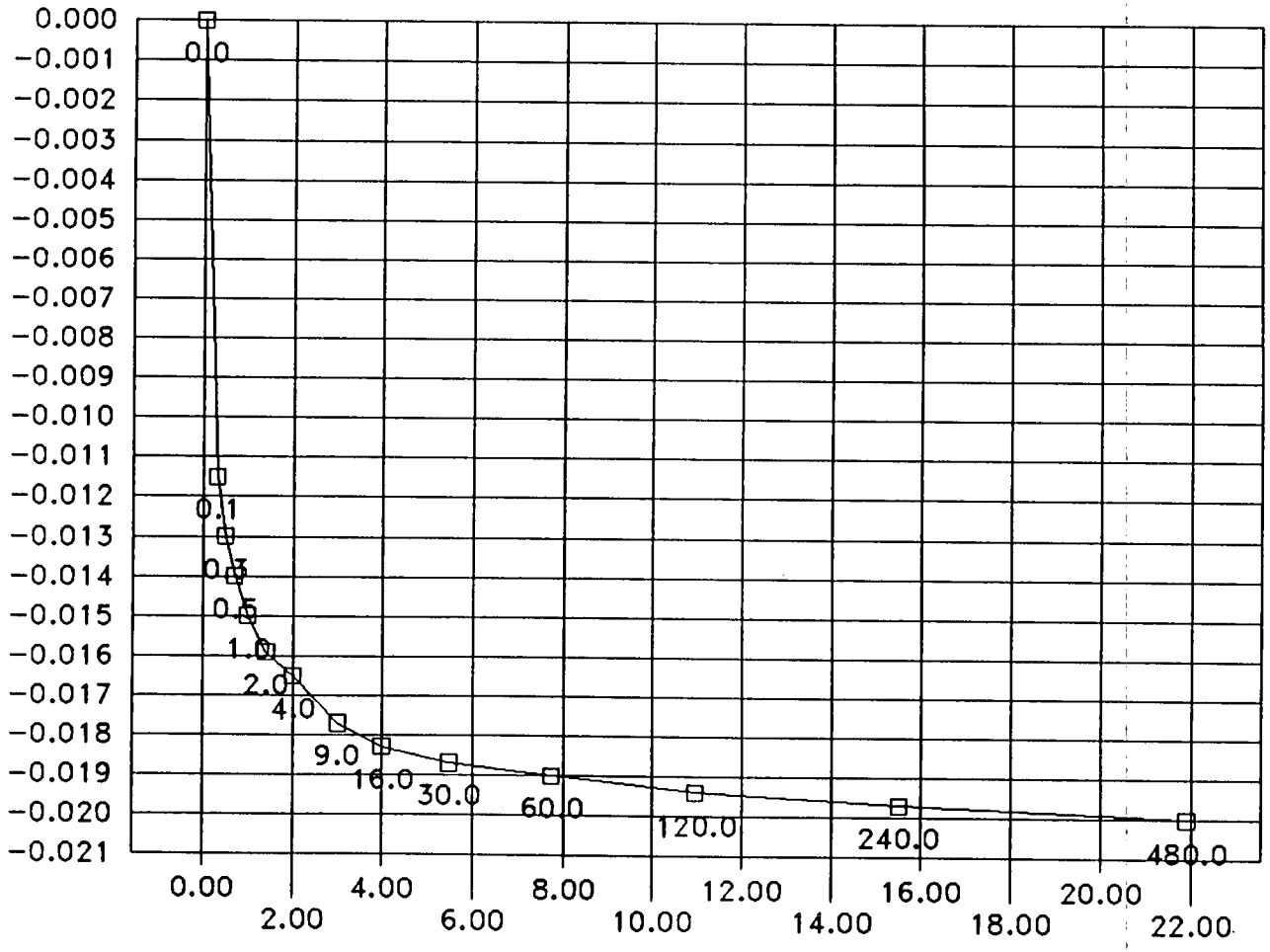
TIME READING DATA

G2-130,405080,15.0-17.0',3200 psf Load



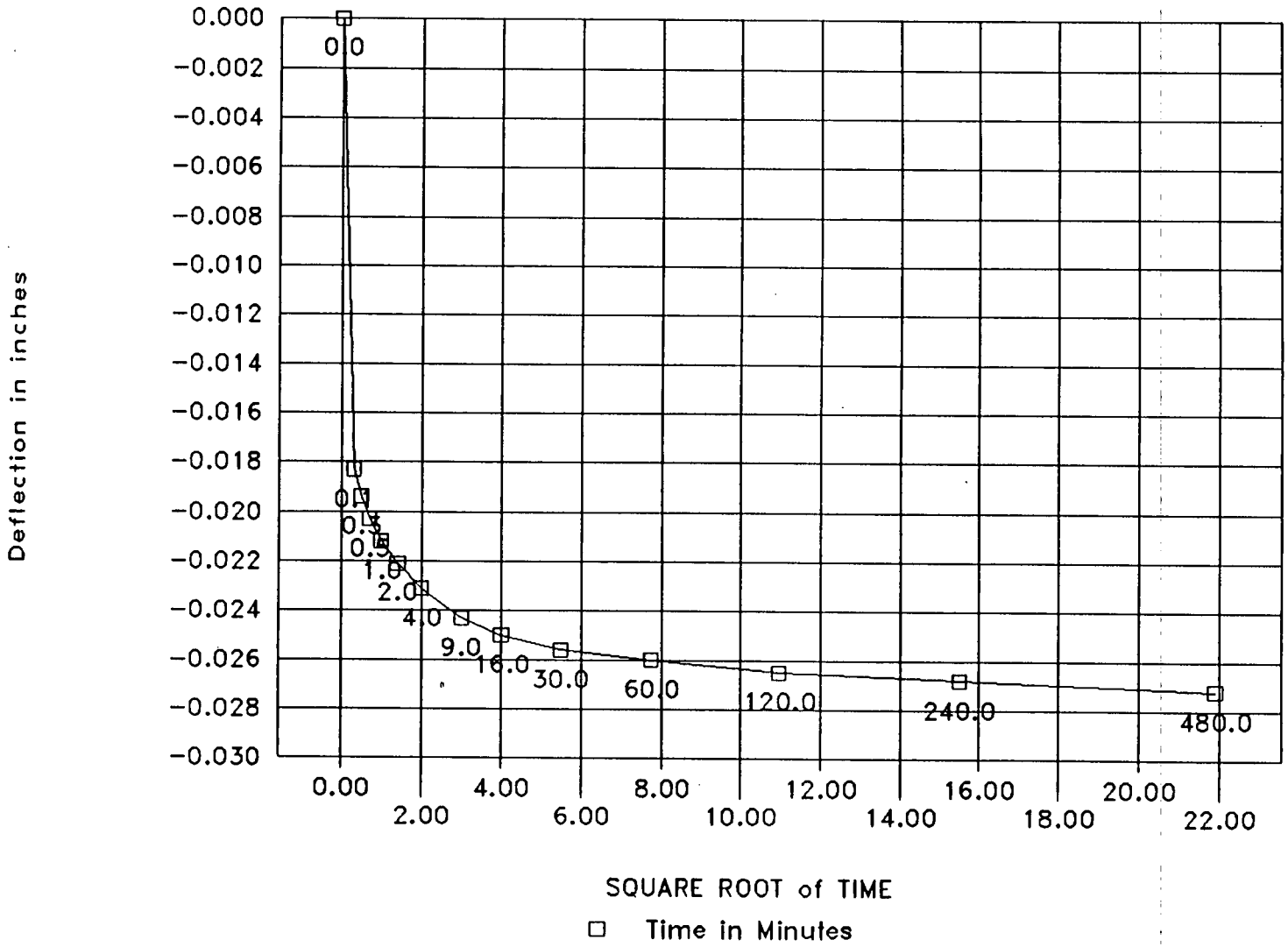
TIME READING DATA

G2-130,405080,15.0-17.0',6400 psf Load



TIME READING DATA

G2-130,405080,15.0-17.0',12800 psf Load



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000847

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CONSOLIDATION TEST DATA SHEET

SAC08085 SAC18085
SACC8085 2
SACE8085 3
4

JOB SAIC/PARSONS P0140 JOB NO. 2059-134

DATE SAMPLED 4-24-95 mm BORING NO. 62-130

TEST STARTED 7-2-95 BY WEB TEST FINISHED 7-10-95 BY DJR DEPTH 15-17'

SOIL TYPE SAMPLE 405080

CONSOLIDOMETER NO. ATT-16 INITIAL SAMPLE HEIGHT 1.00" D_o = 2.41"

MOISTURE & DENSITY DATA		BEFORE TEST	AFTER TEST
WT. OF RING(S)+ SOIL	g	187.48	190.03
WT. OF RING(S) ONLY	g	45.79	45.79
WT. OF SOIL (NET)			
WET DENSITY IN LBS/CU. FT.*			
WT. OF WET SOIL + DISH NO. KØ			
INT. OF DRY SOIL + DISH			
WT. OF LOST MOISTURE			
WT. OF DISH ONLY	g	3.72	3.72
WT. OF DRY SOIL			
MOISTURE AS % OF DRY WT.			
DRY DENSITY IN LBS/CU. FT.			

TEST INSTRUCTIONS

LOAD CYCLE 100 WET 200
400 800 1600 TR 3200
6400 TR 12800 TR 25600 Reb x2

SPECIAL INSTRUCTION AND NOTES

Dry WT SOIL+Ring+Dish = 179.
Remolded 85% @ opt. moistur.
SpGR = 2.79

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOLIDATION
7-3-95	902	0	100	.1242		
	0912	10		.1243		.0000
			WET			
	0913	1		.1231		
	0914	2		.1231		
	1029			.1234	-.0009	-.0009
			200			
	1030	1		.1251		
	1031	2		.1254		
	1144			.1268		
	1354			.1270	.0027	.0020
			400			
	1400	1		.1441		
	1401	2		.1454		
	1520			.1500		
	1626			.1502	.0254	.0241
			800			
	1627	1		.1829		
	1628	2		.1847		
	1729			.1878		
7-4-95	1005			.1884	.0641	.0611
			1600			
	1006	.1		.2092		
		.25		.2113		
		.5		.2131		
	1007	1		.2150		
	1008	2		.2166		
	1010	4		.2181		
	1015	9		.2194		
	1022	16		.2200		

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOLIDATION
7-4-95	1036	30	400	.2204		
	1106	60		.2208		
	1206	120		.2211		
	1406	240		.2214		
	1806	480		.2218		
7-5-95	0735			.2219	.0976	.0933
			3200			
		.1		.2380		
		.25		.2396		
		.5		.2406		
	0736	1		.2418		
	0737	2		.2430		
	0739	4		~~.2435~~	.2443	DJR 7-5-95
	0744	9		.2456		
	0751	16		.2463		
	0805	30		.2468		
	0835	60		.2472		
	0935	120		.2476		
	1035	240		.2480		
	1535	480		.2488		
7-6-95	0712			.2495	.1242	.1180
			6400			
		.1		.2600		
		.25		.2615		
		.5		.2625		
	0713	1		.2635		
	0714	2		.2644		
	0716	4		.2650		
	0721	9		.2662		
	0728	16		.2668		

 CONTINUED ON REVERSE SIDE

ADVANCED TERRA TESTING

SAIL/PARSONS 10140 CONT-ADM 474

G2-130
15-17'
405080

CON 785

CONSOLIDATION TEST DATA SHEET (CONTINUED)

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOLIDATION
7-6-95	0742	30	6400 (cont)	.2672		
	0812	60		2675		
	0912	120		.2679		
	1112	240		.2682		
	1512	480		.2685		
7-7-95	0718			.2686	.1446	.1360
			12800			
		.1		.2869		
		.25		.2880		
		.5		.2889		
	0718	1		.2898		
	0719	2		.2907		
	0721	4		.2917		
	0726	9		.2929		
	0733	16		.2936		
	0747	30		.2942		
	0817	60		.2946		
	0917	120		.2951		
	1117	240		.2954		
	1517	480		.2958		
7-8-95	829			.2960	.1717	.1607
	830	1	25600	.3109		
	831	2		.3119		
	931			.3156		
	1116			.3162		
	1336			.3166		
7-9-95	1002			.3170	.1927	.1785
			6400			
	1019	1		.3122		
	1020	2		.3121		
	1111			.3120		
	1245			.3120	.1877	.1700
			1600			
	1251	1		.3081		
	1252	2		.3077		
	1314			.3068		
	1453			.3065		
	1656			.3065		
	1855			.3064	.1821	.1663
			400			
	1900	1		.3039		
	1901	2		.3034		
	1943			.3005		
7-10-95	0709			.2996		
	0821			.2996	.1753	.1607
			100			
	0822	1		.2986		
	0823	2		.2982		
	0916			.2950		
	1000			.2943		
	1102			.2938		
	1251			.2934		
	1359			.2932	.1689	.1550

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOLIDATION

785 ATT-16

CONSOLIDATION TEST
ASTM D-2435

CLIENT SAIC/Parsons PO 140 JOB NO. 2059-13I

BORING NO.	G2-SB-1	SAMPLED	4-24-95 JC, BN
DEPTH	1.5-5.0'	TEST STARTED	6-22-95 CAL
SAMPLE NO.	404608	TEST FINISHED	7-3-95 WEB
SOIL DESCR.	Fernald	CELL NUMBER	ATT-15
Note: Remolded to 85% MDD			
SAMPLE DIA.(in)	2.410	INITIAL HT.(in)	1.000

MOISTURE/DENSITY DATA	BEFORE TEST	AFTER TEST
Wt. Soil & Ring(s) (g)	170.1	175.4
Wt. Ring(s) (g)	44.8	44.8
Wt. Soil (g)	125.3	130.6
Wet Density PCF	104.6	132.7
Wt. Wet Soil & Pan (g)	128.9	134.2
Wt. Dry Soil & Pan (g)	110.8	110.8
Wt. Lost Moisture (g)	18.1	23.5
Wt. of Pan Only (g)	3.6	3.6
Wt. of Dry Soil (g)	107.2	107.2
Moisture Content %	16.9	21.9
Dry Density PCF	89.5	108.9

LOAD (PSF)	CONSOL. (IN.)
100	0.0000
100	-0.0333
200	-0.0331
400	-0.0232
800	0.0276
1600	0.0513
3200	0.1011
6400	0.1428
12800	0.1895
25600	0.2270
6400	0.2151
1600	0.2034
400	0.1877
100	0.1779

	LOAD (PSF)	LOG p	CONSOL. (IN.)	DEFL. (IN.)	VOID RATIO e
	100	2.000	0.0000	0.0000	0.9043
Saturate	100	2.000	-0.0333	0.0333	0.9677
	200	2.301	-0.0331	0.0331	0.9674
	400	2.602	-0.0232	0.0232	0.9485
	800	2.903	0.0276	-0.0276	0.8518
	1600	3.204	0.0513	-0.0513	0.8066
	3200	3.505	0.1011	-0.1011	0.7118
	6400	3.806	0.1428	-0.1428	0.6324
	12800	4.107	0.1895	-0.1895	0.5435
	25600	4.408	0.2270	-0.2270	0.4720
	6400	3.806	0.2151	-0.2151	0.4947
	1600	3.204	0.2034	-0.2034	0.5170
	400	2.602	0.1877	-0.1877	0.5469
	100	2.000	0.1779	-0.1779	0.5655

% Saturation	51.0
Sp. Gr. (g/cc)	2.730
Init. Ht. Solids (cm)	1.334
Init. Ht. Voids (cm)	1.206
Init. Void Ratio	0.9043

Data entry by: NAA Date: 7-5-95
Data checked by: CJ Date: 8-12-95
FileName:SAC0608

ADVANCED TERRA TESTING, INC.

TIME READING DATA

G2-SB-1
1.5-5.0'

1600 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.1292	0.0000
0.1	0.32	0.1346	-0.0054
0.3	0.50	0.1382	-0.0090
0.5	0.71	0.1419	-0.0127
1.0	1.00	0.1443	-0.0151
2.0	1.41	0.1466	-0.0174
4.0	2.00	0.1484	-0.0192
9.0	3.00	0.1500	-0.0208
16.0	4.00	0.1508	-0.0216
30.0	5.48	0.1514	-0.0222
60.0	7.75	0.1520	-0.0228
120.0	10.95	0.1526	-0.0234
240.0	15.49	0.1533	-0.0241
480.0	21.91	0.1539	-0.0247

3200 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.1545	0.0000
0.1	0.32	0.1826	-0.0281
0.3	0.50	0.1863	-0.0318
0.5	0.71	0.1885	-0.0340
1.0	1.00	0.1914	-0.0369
2.0	1.41	0.1943	-0.0398
4.0	2.00	0.1972	-0.0427
9.0	3.00	0.2000	-0.0455
16.0	4.00	0.2015	-0.0470
30.0	5.48	0.2028	-0.0483
60.0	7.75	0.2038	-0.0493
120.0	10.95	0.2047	-0.0502
240.0	15.49	0.2056	-0.0511
480.0	21.91	0.2063	-0.0518

6400 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.2069	0.0000
0.1	0.32	0.2263	-0.0194
0.3	0.50	0.2282	-0.0213
0.5	0.71	0.2299	-0.0230
1.0	1.00	0.2320	-0.0251
2.0	1.41	0.2342	-0.0273
4.0	2.00	0.2369	-0.0300
9.0	3.00	0.2404	-0.0335
16.0	4.00	0.2422	-0.0353
30.0	5.48	0.2454	-0.0385
60.0	7.75	0.2472	-0.0403
120.0	10.95	0.2483	-0.0414
240.0	15.49	0.2492	-0.0423
480.0	21.91	0.2498	-0.0429

12800 psf Load

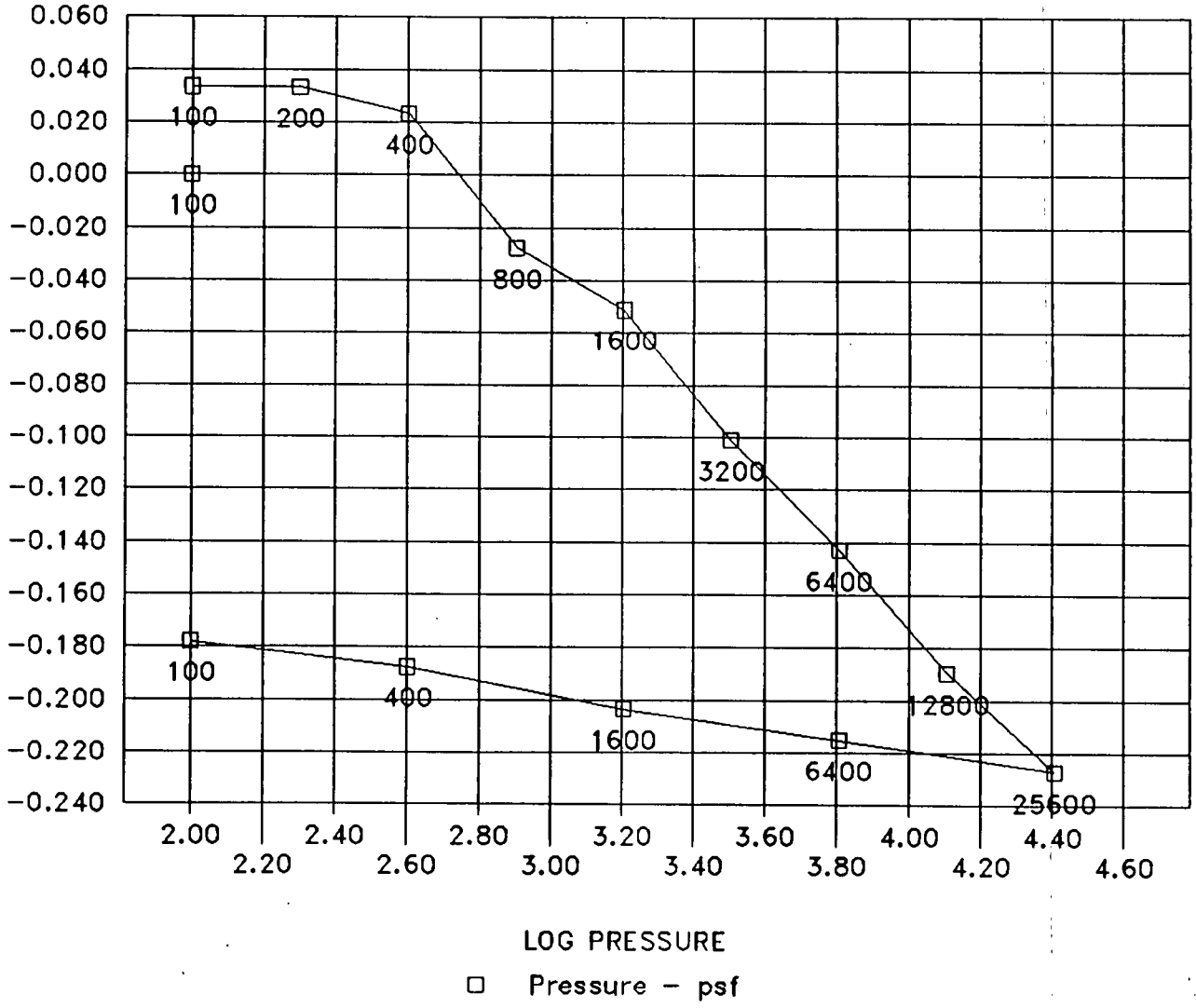
Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.2501	0.0000
0.1	0.32	0.2689	-0.0188
0.3	0.50	0.2702	-0.0201
0.5	0.71	0.2715	-0.0214
1.0	1.00	0.2731	-0.0230
2.0	1.41	0.2753	-0.0252
4.0	2.00	0.2780	-0.0279
9.0	3.00	0.2826	-0.0325
16.0	4.00	0.2862	-0.0361
30.0	5.48	0.2902	-0.0401
60.0	7.75	0.2942	-0.0441
120.0	10.95	0.2964	-0.0463
240.0	15.49	0.2976	-0.0475
480.0	21.91	0.2984	-0.0483

Data entry by: NAA Date: 7-5-95
Data checked by: CJ Date: 7-5-95
FileName: SAC0608

ADVANCED TERRA TESTING, INC.

CONSOLIDATION TEST DATA

G2-SB-1,404608,1.5-5.0'



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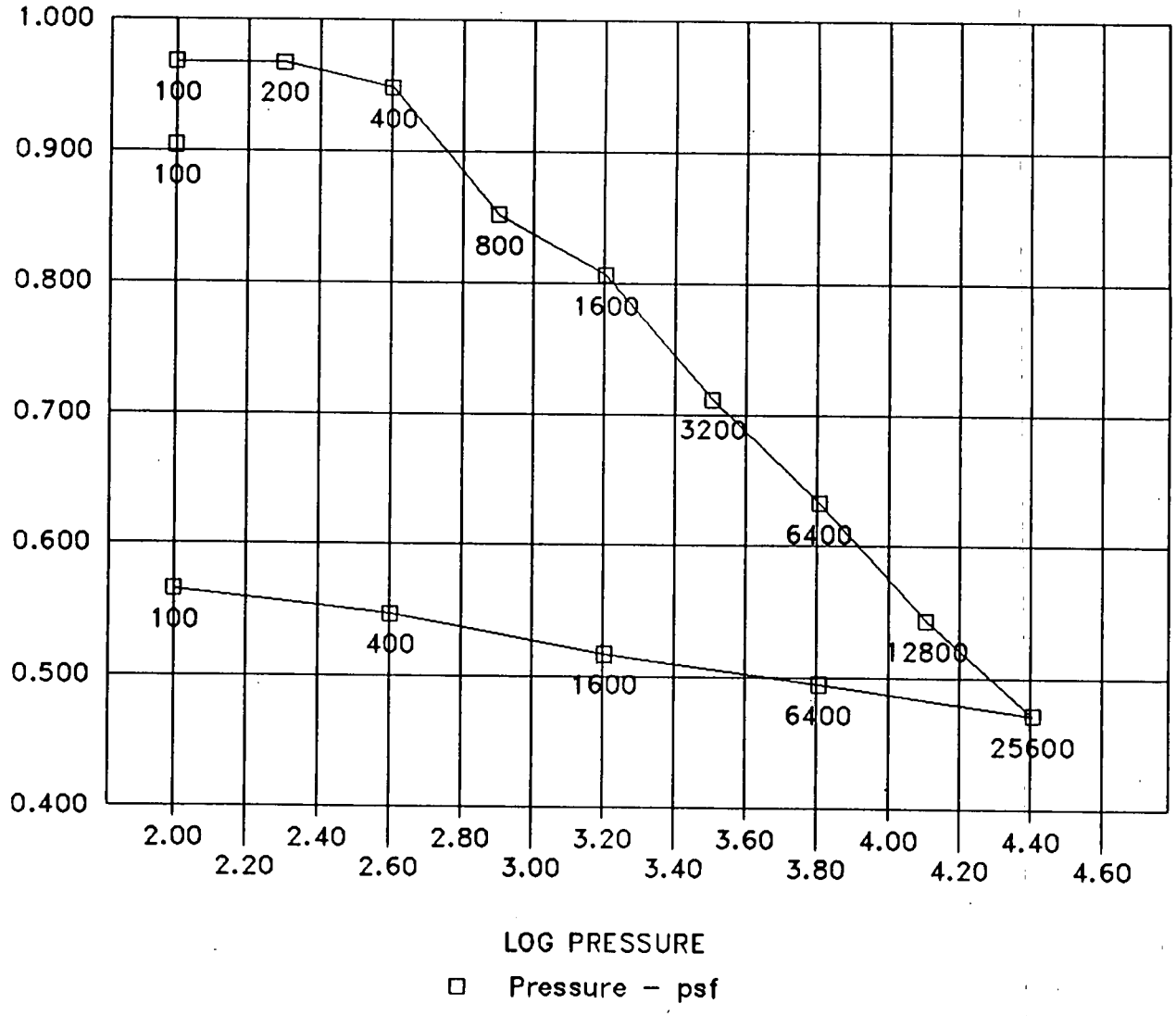
CONSOLIDATION TEST DATA

G2-SB-1,404608,1.5-5.0'



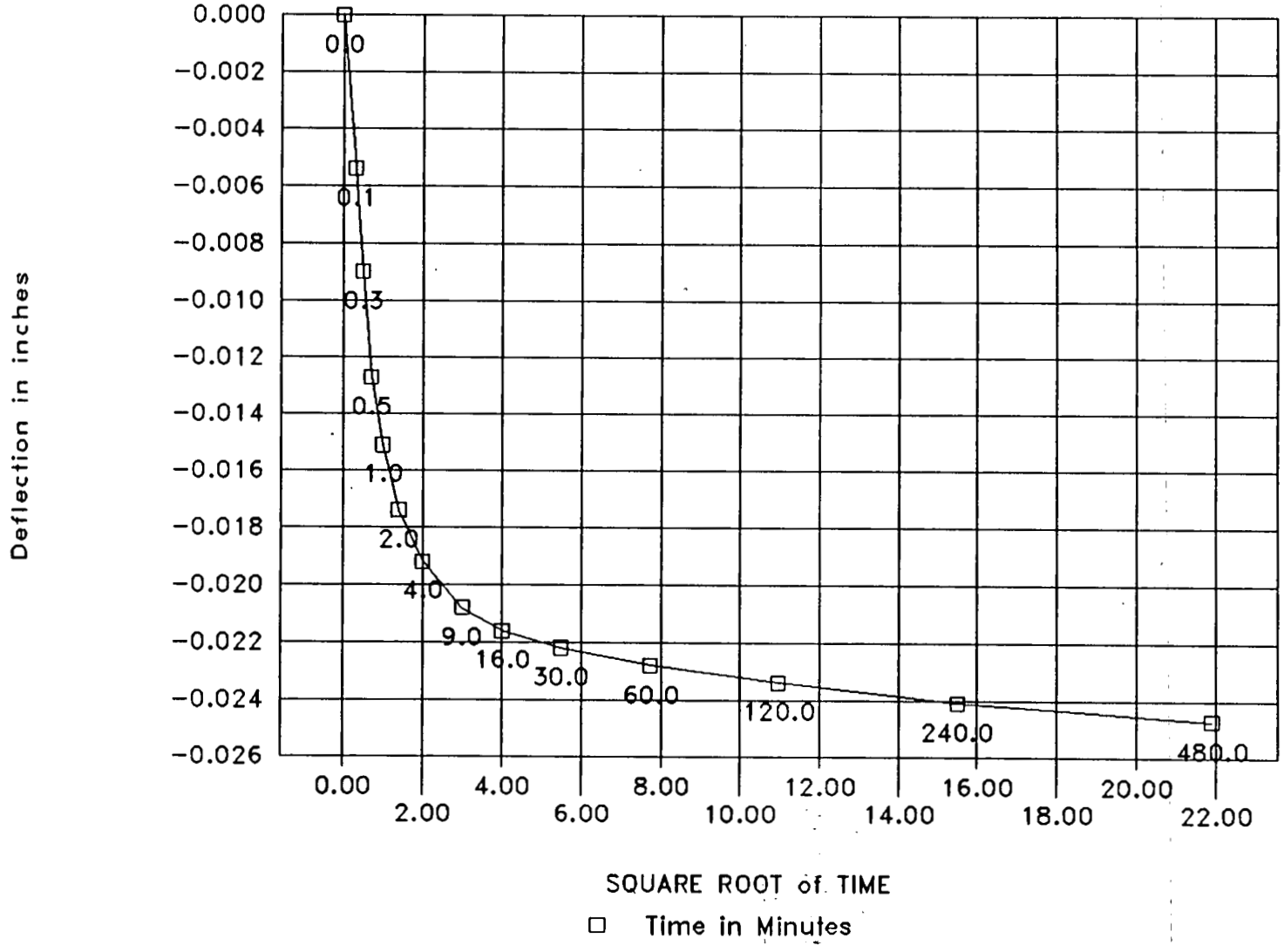
789

000853

474

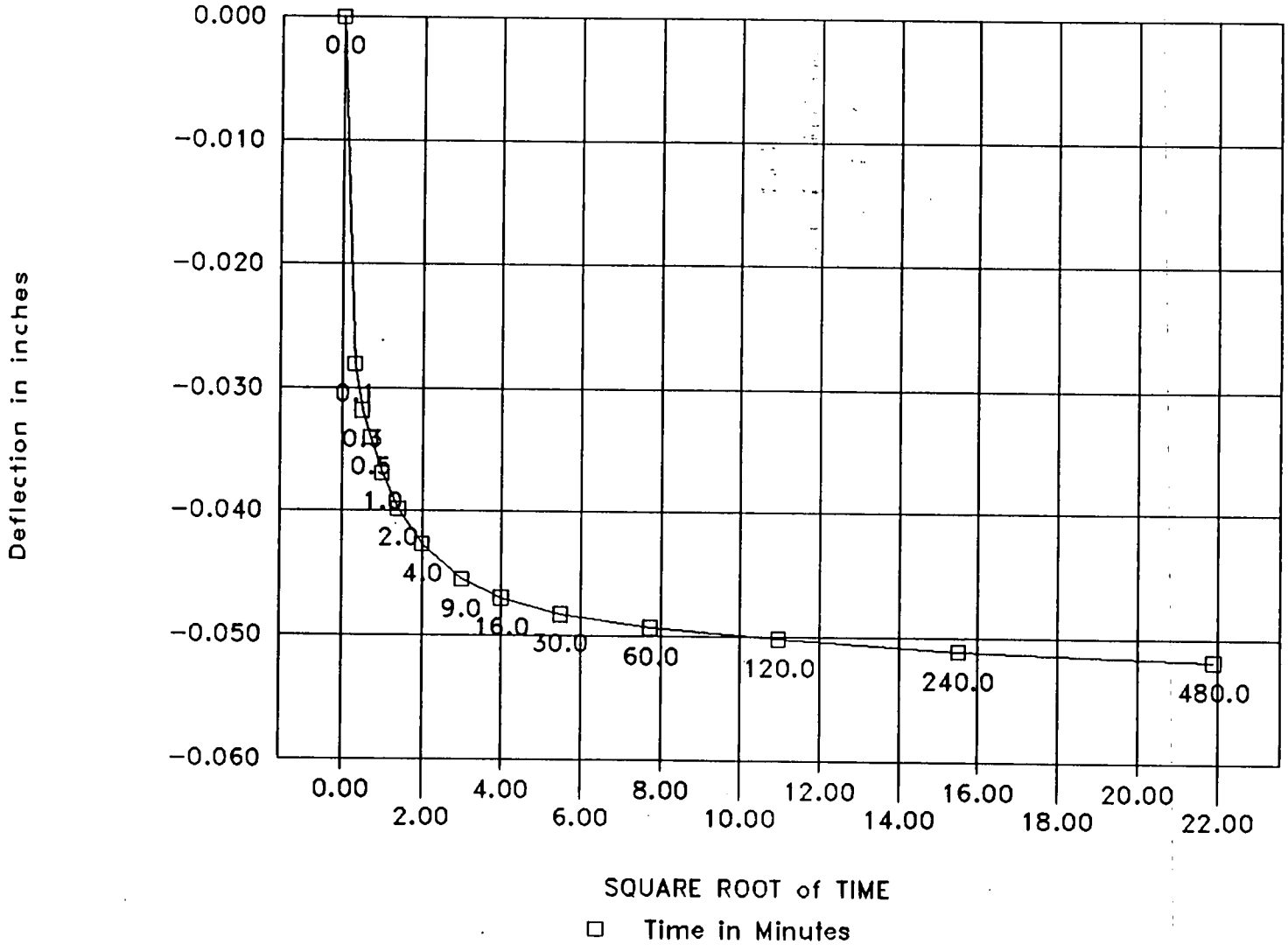
TIME READING DATA

G2-SB-1,404608,1.5-5.0',1600 psf Load



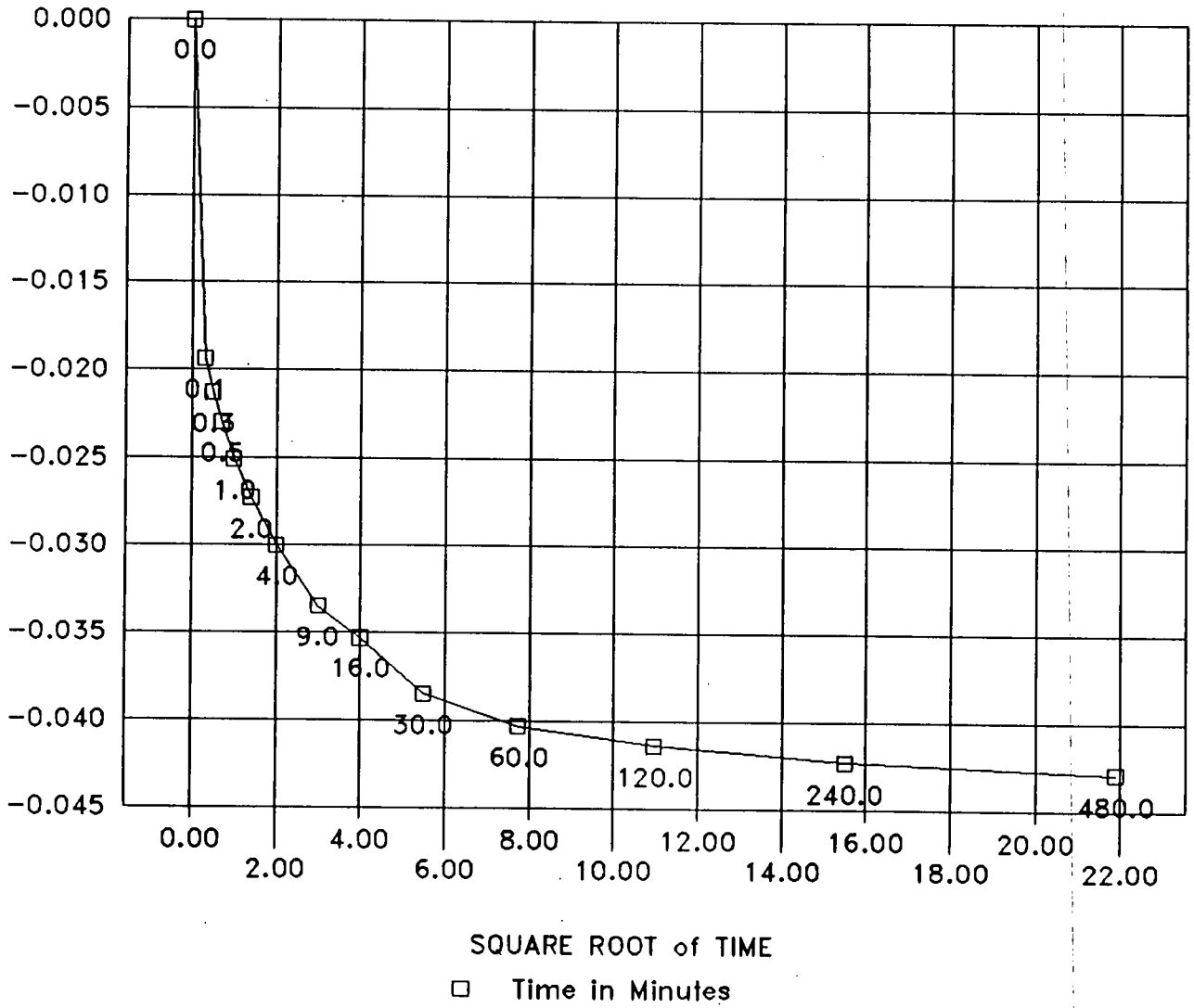
TIME READING DATA

G2-SB-1,404608,1.5-5.0',3200 psf Load



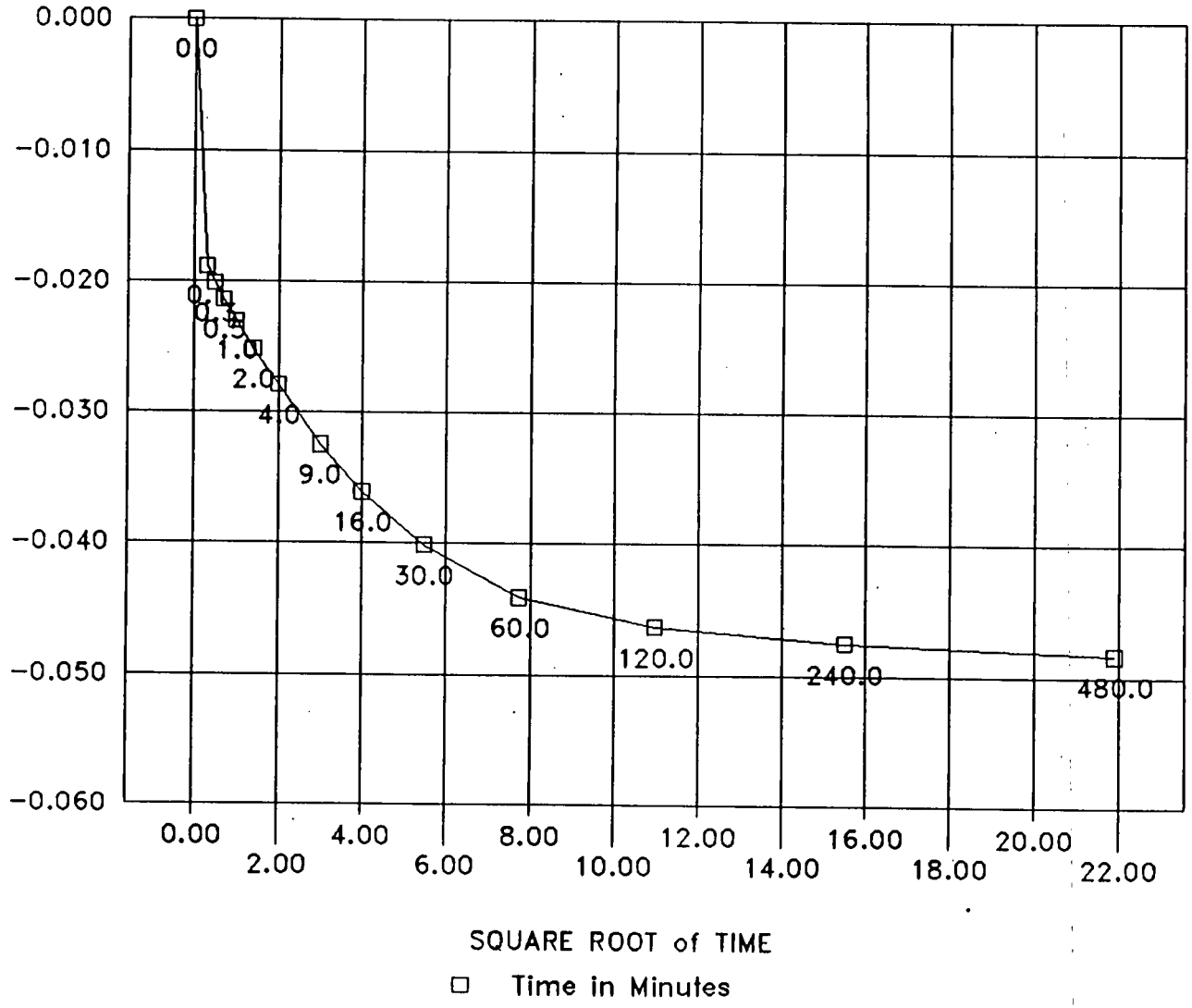
TIME READING DATA

G2-SB-1,404608,1.5-5.0',6400 psf Load



TIME READING DATA

G2-SB-1,404608,1.5-5.0',12800 psf Load



CONSOLIDATION TEST DATA SHEET

SAC0608 SAC1008
SACC608 2
SACE608 3
4

JOB SAIC / PARSONS PD 140, Fernald — JOB NO. 2059-13 I
DATE SAMPLED 4-24-95 JC, BN — BORING NO. G2-SB-1
TEST STARTED 6-22-95 BY cal — TEST FINISHED 7-3-95 BY WEB — DEPTH 1.5-5.0' #404608
SOIL TYPE — CONS RC 85%
CONSOLIDOMETER NO. ATT-15 — INITIAL SAMPLE HEIGHT 1.00" D 2.41"

MOISTURE & DENSITY DATA	BEFORE TEST	AFTER TEST
WT. OF RING(S) + SOIL gms	170.07	175.44
WT. OF RING(S) ONLY gms	44.80	44.80
WT. OF SOIL (NET)		
WET DENSITY IN LBS/CU. FT.*		
WT. OF WET SOIL + DISH NO. 30B		
INT. OF DRY SOIL + DISH		
WT. OF LOST MOISTURE		
WT. OF DISH ONLY gms	3.59	
WT. OF DRY SOIL		
MOISTURE AS % OF DRY WT.		
DRY DENSITY IN LBS/CU. FT.		

TEST INSTRUCTIONS

LOAD CYCLE 100 WET 200
400 800 1600 3200
6400 12800 25600
Reb x2

SPECIAL INSTRUCTION AND NOTES
Dry wt soil + pan + ring 155.56 g

SpGr = 2.73

DATE	TIME	E-LAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOL-IDATION
6-22-95	1441	1	100	.0976		
	1442	2		.0980		
	1450	10		.0984	.0000	.0000
	1451	1	WET	.0848		
	1452	2		.0769		
	1512			.0682		
	1615			.0669		
	1700			.06663		
6-23-95	0800			.0652	-.0333	
	0801			.0651	~~.5526~~	-.0333
	0802	1	200	.0657		
	0803	2		.0658		
	0855			.0661	-.0323	-.0331
	0856	1	400	.0716		
	0857	2		.0722		
	956			.0759		
	1106			.0767		
	1159			.0770	-.0214	-.0232
	1200	1	800	.1043		
	1201	2		.1084		
	1318			.1159		
	1428			.1164		
	1533			.1167		
6-24-95	0749			.1176		
6-25-95	0735			.1181		
6-26-95	0725			.1292	.0308	.0276

DATE	TIME	E-LAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOL-IDATION
6-26-95	0725	.1	1600	.1346		
		.25		.1382		
		.5		.1419		
	0726	1		.1443		
	0727	2		.1466		
	0729	4		.1484		
	0734	9		.1500		
	0741	16		.1508		
	0755	30		.1514		
	0825	60		.1520		
0925	~~0825~~	120		.1526		
	1125	240		.1533		
	1525	480		.1539		
6-27-95	0715			.1545	.0561	.0513
			3200			
	0715	.1		.1826		
		.25		.1863		
		.5		.1885		
	0716	1		.1914		
	0717	2		.1943		
	0719	4		.1972		
	0724	9		.2000		
	0731	16		.2015		
	0745	30		.2028		
	0815	60		.2038		
	0915	120		.2047		
	1115	240		.2056		
	1515	480		.2063		
6-28-95	0727			.2069	.1085	.1011

 CONTINUED ON REVERSE SIDE

ADVANCED TERRA TESTING

CONSOLIDATION TEST DATA SHEET (CONTINUED) 62-SB-1 404608 1.5-50'

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL UNDER THIS LOAD	TOTAL CONSOLIDATION
6-28-95	0727	.1	6400	.2263		
		.25		.2282		
		.5		.2299		
	0728	1		.2320		
	0729	2		.2342		
	0731	4		.2369		
0736	~~0737~~	9		.2404		
0741	~~0742~~	16		.2422		
	0757	30		.2454		
	0827	60		.2472		
	0927	120		.2483		
	1127	240		.2492		
	1627	480		.2498		
6-29-95	0732			.2501	.1517	.1428
			12800			
	0732	.1		.2689		
		.25		.2702		
		.5		.2715		
	0733	1		.2731		
	0734	2		.2753		
	0736	4		.2780		
	0741	9		.2826		
	0748	16		.2862		
	0802	30		.2902		
	0832	60		.2942		
	0932	120		.2964		
	1132	240		.2976		
	1532	480		.2984		
6-30-95	707			.2989	.2005	.1895
	708	1	25600	.3140		
	709	2		.3159		
	0825			.3353		
	0946			.3375		
	1114			.3383		
	1228			.3387		
	1349			.3389	.2405	.2270
			6400 Reb			
	1350	1		.3336		
	1351	2		.3331		
	1515			.3296		
7-1-95	718			.3286		
	818			.3286	.2302	.2151
	819	1	1600	.3256		
	820	2	Reb	.3250		
	921			.3187		
	1116			.3161		
	1416			.3151		
	1636			.3153	.2169	.2034
			400			
	1639	1		~~.315~~ .3126		
	1640	2		.3124		
	1716			.3088		
	1811			.3061		
7-2-95	0902			.2986		

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL UNDER THIS LOAD	TOTAL CONSOLIDATION
7-2-95	0934		400	.2985	.2001	.1877
			100			
	0935	1		.2776		
	0936	2		.2775		
	1056			.2953		
	1204			.2941		
	1304			.2931		
7-3-95	0717			.2877		
	0825			.2875	.1891	.1779

CONSOLIDATION TEST
ASTM D-2435

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13I

BORING NO.	G2-SB-4	SAMPLED	4-25-95 JC, BN
DEPTH	1.5-5.0'	TEST STARTED	6-29-95 CAL, REW
SAMPLE NO.	404615	TEST FINISHED	7-8-95 CAL
SOIL DESCR.	Fernald	CELL NUMBER	ATT-2
Note: Remolded to 85% MDD			
SAMPLE DIA.(in)	2.410	INITIAL HT.(in)	1.000

MOISTURE/DENSITY DATA	BEFORE TEST	AFTER TEST
Wt. Soil & Ring(s) (g)	174.6	178.6
Wt. Ring(s) (g)	46.5	46.5
Wt. Soil (g)	128.1	132.1
Wet Density PCF	107.0	136.3
Wt. Wet Soil & Pan (g)	131.9	135.8
Wt. Dry Soil & Pan (g)	112.7	112.7
Wt. Lost Moisture (g)	19.2	23.1
Wt. of Pan Only (g)	3.7	3.7
Wt. of Dry Soil (g)	109.0	109.0
Moisture Content %	17.6	21.2
Dry Density PCF	91.0	112.4

LOAD (PSF)	CONSOL. (IN.)
100	0.0000
100	-0.0001
200	0.0022
400	0.0076
800	0.0357
1600	0.0853
3200	0.1279
6400	0.1640
19200	0.2180
25600	0.2251
6400	0.2198
1600	0.2079
400	0.1976
100	0.1905

	LOAD (PSF)	LOG p	CONSOL. (IN.)	DEFL. (IN.)	VOID RATIO e
	100	2.000	0.0000	0.0000	0.8523
Saturate	100	2.000	-0.0001	0.0001	0.8525
	200	2.301	0.0022	-0.0022	0.8482
	400	2.602	0.0076	-0.0076	0.8382
	800	2.903	0.0357	-0.0357	0.7862
	1600	3.204	0.0853	-0.0853	0.6943
	3200	3.505	0.1279	-0.1279	0.6154
	6400	3.806	0.1640	-0.1640	0.5485
	19200	4.283	0.2180	-0.2180	0.4485
	25600	4.408	0.2251	-0.2251	0.4353
	6400	3.806	0.2198	-0.2198	0.4452
	1600	3.204	0.2079	-0.2079	0.4672
	400	2.602	0.1976	-0.1976	0.4863
	100	2.000	0.1905	-0.1905	0.4994

% Saturation	55.7
Sp. Gr. (g/cc)	2.700
Init. Ht. Solids (cm)	1.371
Init. Ht. Voids (cm)	1.169
Init. Void Ratio	0.8523

Data entry by: NAA Date: 7-11-95
Data checked by: CW Date: 8-12-95
FileName:SAC01585

ADVANCED TERRA TESTING, INC.

TIME READING DATA

G2-SB-4
1.5-5.0'

1600 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.2623	0.0000
0.1	0.32	0.2332	-0.0291
0.3	0.50	0.2265	-0.0358
0.5	0.71	0.2228	-0.0395
1.0	1.00	0.2202	-0.0421
2.0	1.41	0.2182	-0.0441
4.0	2.00	0.2168	-0.0455
9.0	3.00	0.2152	-0.0471
16.0	4.00	0.2142	-0.0481
30.0	5.48	0.2132	-0.0491
60.0	7.75	0.2123	-0.0500
120.0	10.95	0.2116	-0.0507
240.0	15.49	0.2110	-0.0513
480.0	21.91	0.2104	-0.0519

3200 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.2098	0.0000
0.1	0.32	0.1836	-0.0262
0.3	0.50	0.1804	-0.0294
0.5	0.71	0.1789	-0.0309
1.0	1.00	0.1760	-0.0338
2.0	1.41	0.1739	-0.0359
4.0	2.00	0.1720	-0.0378
9.0	3.00	0.1702	-0.0396
16.0	4.00	0.1692	-0.0406
30.0	5.48	0.1683	-0.0415
60.0	7.75	0.1675	-0.0423
120.0	10.95	0.1668	-0.0430
240.0	15.49	0.1662	-0.0436
480.0	21.91	0.1656	-0.0442

6400 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.1650	0.0000
0.1	0.32	0.1464	-0.0186
0.3	0.50	0.1445	-0.0205
0.5	0.71	0.1428	-0.0222
1.0	1.00	0.1409	-0.0241
2.0	1.41	0.1388	-0.0262
4.0	2.00	0.1364	-0.0286
9.0	3.00	0.1337	-0.0313
16.0	4.00	0.1320	-0.0330
30.0	5.48	0.1306	-0.0344
60.0	7.75	0.1294	-0.0356
120.0	10.95	0.1288	-0.0362
258.0	16.06	0.1281	-0.0369
480.0	21.91	0.1277	-0.0373

19200 psf Load

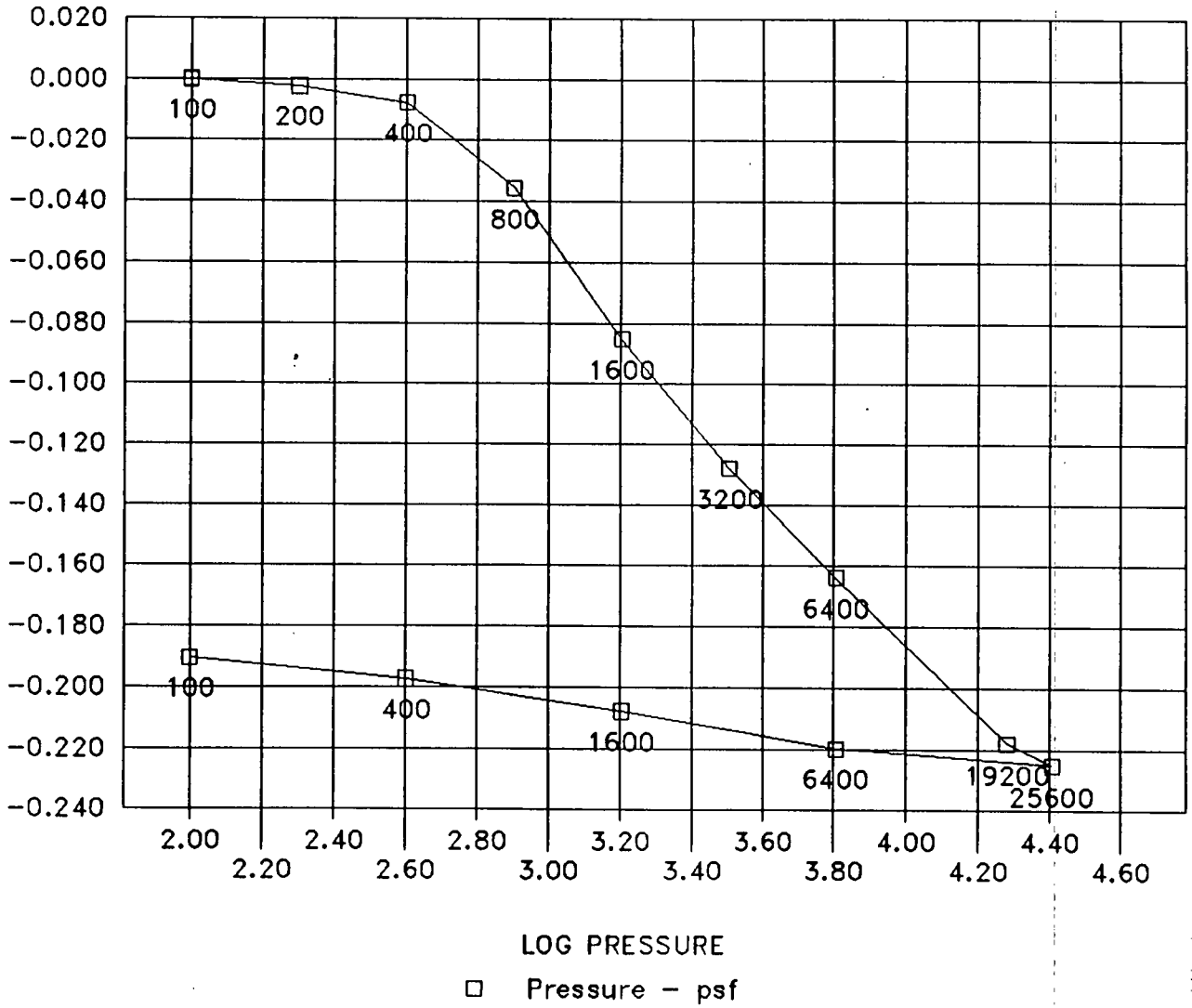
Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.1270	0.0000
0.1	0.32	0.1160	-0.0110
0.3	0.50	0.1142	-0.0128
0.5	0.71	0.1125	-0.0145
1.0	1.00	0.1102	-0.0168
2.0	1.41	0.1073	-0.0197
4.0	2.00	0.0931	-0.0339
9.0	3.00	0.0876	-0.0394
17.0	4.12	0.0824	-0.0446
30.0	5.48	0.0782	-0.0488
60.0	7.75	0.0746	-0.0524
120.0	10.95	0.0728	-0.0542
240.0	15.49	0.0720	-0.0550
480.0	21.91	0.0715	-0.0555

Data entry by: NAA Date: 7-11-95
Data checked by: MGJ Date: 7-11-95
FileName:SAC01585

ADVANCED TERRA TESTING, INC.

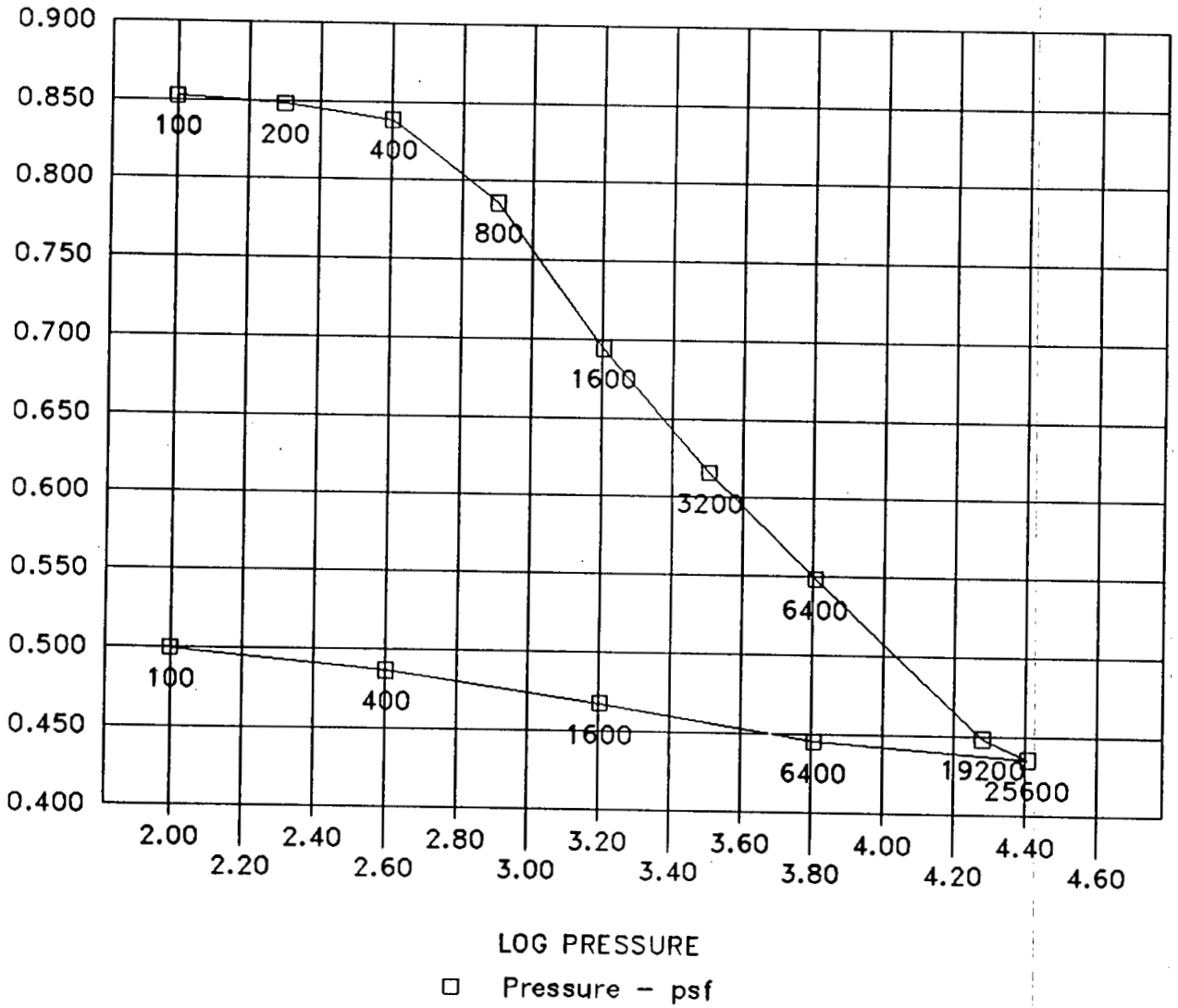
CONSOLIDATION TEST DATA

G2-SB-4,404615,1.5-5.0'



CONSOLIDATION TEST DATA

G2-SB-4,404615,1.5-5.0'



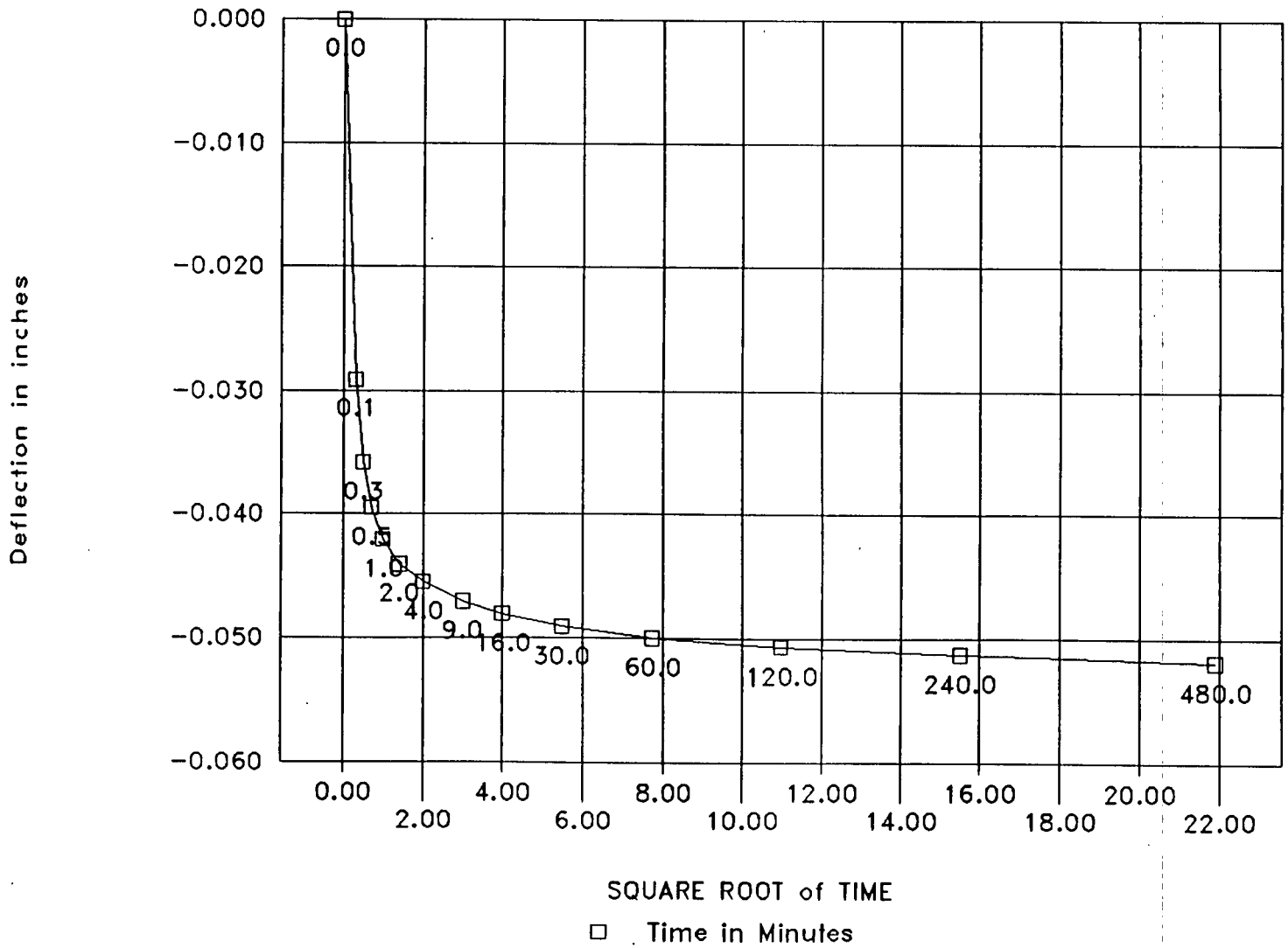
799

000863

474

TIME READING DATA

G2-SB-4,404615,1.5-5.0',1600 psf Load



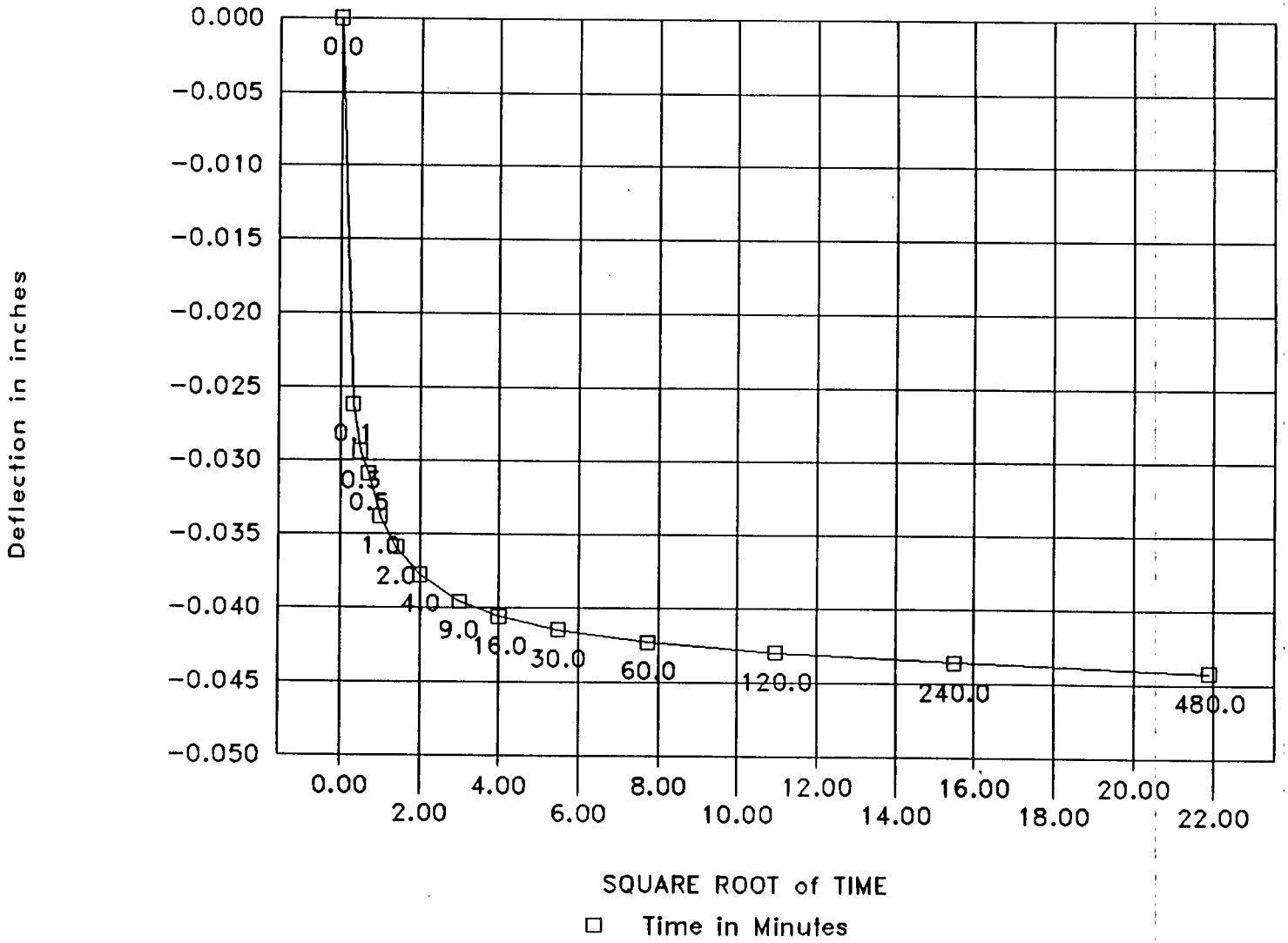
008

000864

474

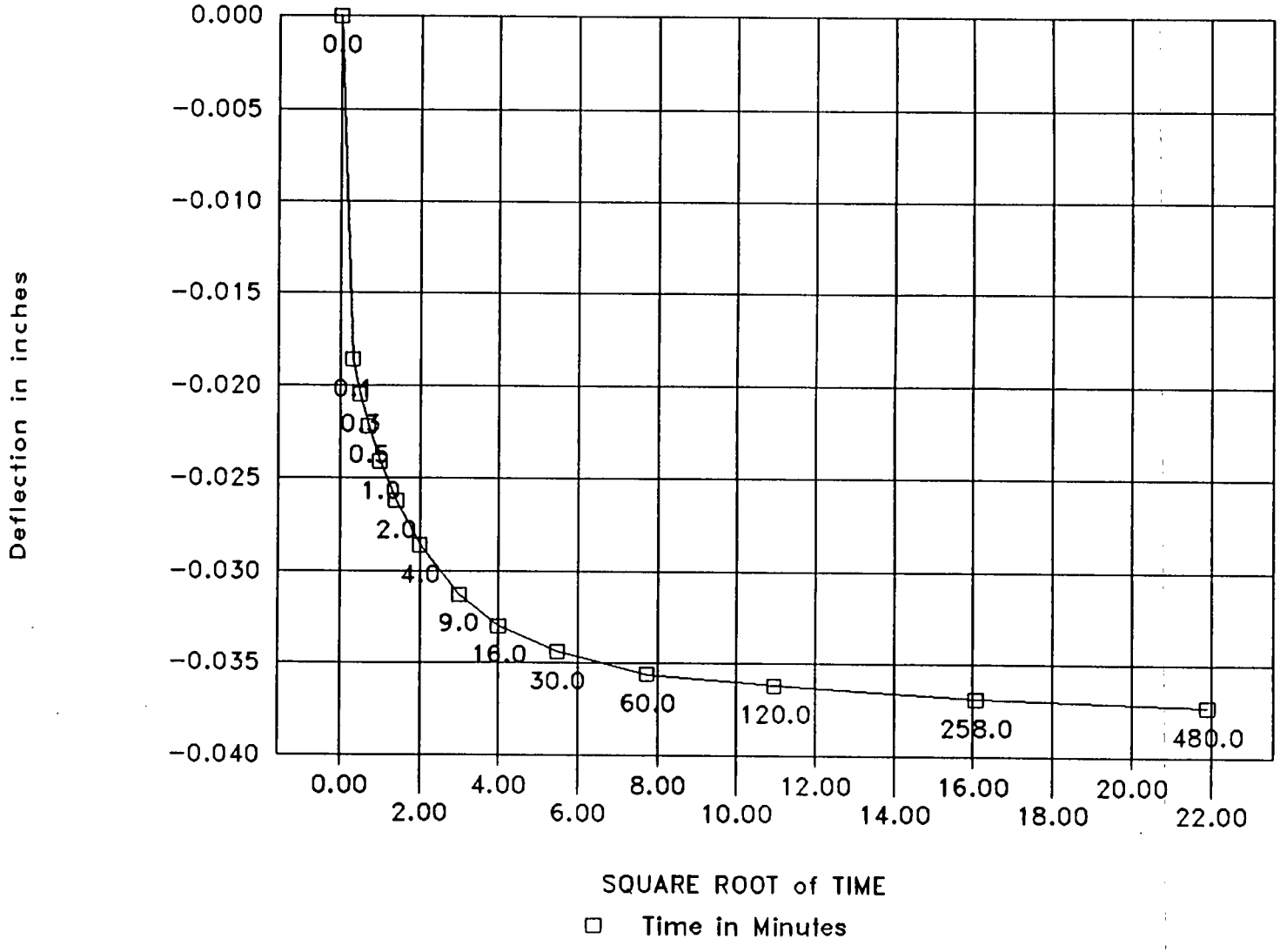
TIME READING DATA

G2-SB-4,404615,1.5-5.0',3200 psf Load



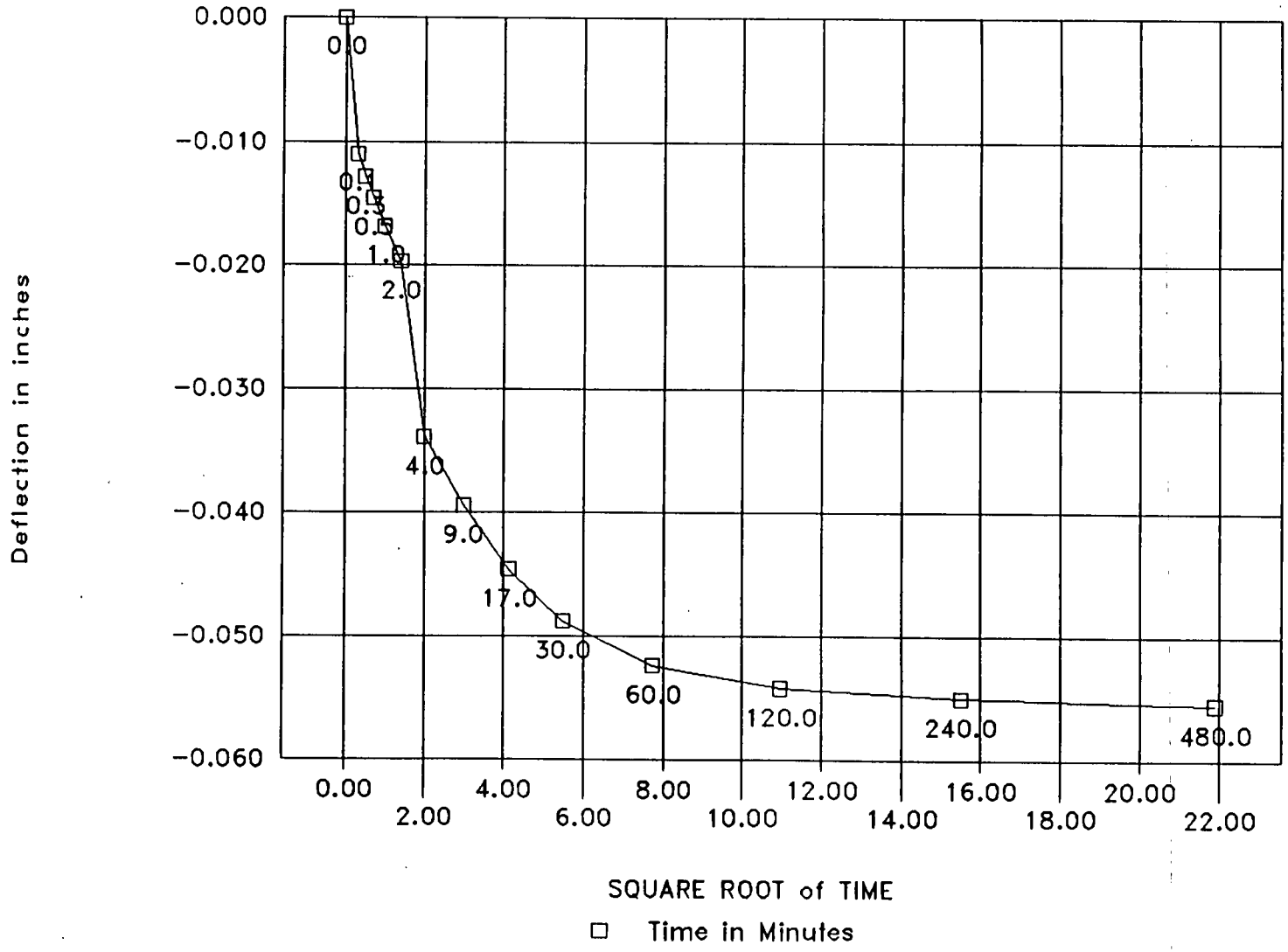
TIME READING DATA

G2-SB-4,404615,1.5-5.0',6400 psf Load



TIME READING DATA

G2-SB-4,404615,1.5-5.0',19200 psf Load



CONSOLIDATION TEST DATA SHEET

SACØ1585 SACC1585 SACE1585 SACC1585 2 3 4

JOB SAIC/Parsons PO 140, Fernald JOB NO. 2059-13 I

DATE SAMPLED 4-25-95 JC, BN BORING NO. G2-SB-4

TEST STARTED 6-29-95 BY CAL/RON TEST FINISHED 7-8-95 BY [illegible] DEPTH 1.5-5' #404615

SOIL TYPE CONS RC 852

CONSOLIDOMETER NO. ATT-2 INITIAL SAMPLE HEIGHT 1.00" Do = 2.41"

MOISTURE & DENSITY DATA		BEFORE TEST	AFTER TEST
WT. OF RING(S)+ SOIL	g	174.62	178.58
WT. OF RING(S) ONLY	g	46.49	
WT. OF SOIL (NET)			
WET DENSITY IN LBS/CU. FT.*			
WT. OF WET SOIL + DISH NO. JØ			
WT. OF DRY SOIL + DISH			
WT. OF LOST MOISTURE			
WT. OF DISH ONLY	g	3.74	
WT. OF DRY SOIL			
MOISTURE AS % OF DRY WT.			
DRY DENSITY IN LBS/CU. FT.			

TEST INSTRUCTIONS

LOAD CYCLE 100 WET 200 400 800 1600 TR 3200 T 6400 TR 12800 TR 25600 Reb x 2

SPECIAL INSTRUCTION AND NOTES

Dry wt. soil + ring + pan = 159.20

Con res

SpGr = 2.70

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOLIDATION
6-29-95			100			
	1318	1		.3038		
	1319	2		.3036		
	1327	10		.3032	.0000	.0000
			wet			
	1328	1		.3032		
	1329	2		.3031		
	1522			.3033	+.0001	
			200			
	1523	1		.3016		
	1524	2		.3014		
	1654			.3003		
6-30-95	715			.3000	.0032	.0022
	716	1	400	.2973		
	717	2		.2970		
	0837			.2941		
	949			.2934		
	1117			.2931		
	1353			.2926	.0103	.0076
			800			
	1355	1		.2781		
	1356	2		.2772		
	1523			.2656		
7-1-95	726			.2623	.0409	.0357

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOLIDATION
7-1-95		.1	1600	.2332		
		.25		.2265		
		.5		.2228		
	727	.1		.2202		
	728	2		.2182		
	730	4		.2168		
	735	9		.2152		
	742	16		.2142		
	756	30		.2132		
	826	60		.2123		
	926	120		.2116		
	1126	240		.2110		
	1526	480		.2104		
7-2-95	0904			.2048	.0934	.0853
			3200			
	0912	.1	.1836			
		.25	.1804	~~.2856~~	WB	
		.5	.1789	~~.2804~~		
	0913	1	.1746	~~.2789~~		
	0914	2	.1739	~~.2760~~		
	0916	4	.1720	~~.2720~~		
	0921	9	.1702	~~.2702~~		
	0928	16	.1692	~~.2692~~		
	0942	30		.1683		
	1012	60		.1675		
	1112	120		.1668		
	1312	240		.1662		
	1712	480		.1656		
7-3-95	0724			.1650	.1382	.1279

ADVANCED TERRA TESTING

804 CONTINUED ON REVERSE SIDE

SHIC/Parsons 70140 CW 7-13 474
G2-SB-4
1.5-5'
404615 Cw 85

CONSOLIDATION TEST DATA SHEET (CONTINUED)

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOLIDATION
7-3-95	724	.1	6400	.1464		
		.25		.1445		
		.5		.1428		
	0725	1		.1409		
	0726	2		.1388		
	0728	4		.1364		
	0733	9		.1337		
	0740	16		.1320		
	0754	30		.1306		
	0824	60		.1294		
	0924	120		.1288		
Del 1142	~~1124~~	~~240~~	258	.1281		
	1524	480		.1277		
7-4-95	1026			.1270	.1762	.1640
			12800	19200	*	Note
		.1		.1160		
		.25		.1142		
		.5		.1125		
	1027	1		~~.1003~~	.1102	na
	1028	2		.1073		
	1030	4	.0931	~~.0931~~		
	1035	9		.0876		
1043	~~1042~~	~~16~~	17	.0824		
	1056	30		.0782		
	1126	60		.0746		
	1226	120		.0728		
	1426	240		.0720		
	1826	480		.0715		
7-5-95	0752		~~2563~~	.0710	.2322	.2180
		1	2560			
	0753	21		.0691		
	0754	2		.0686		
	0843			.0642		
	0955			.0628		
	1119			.0622		
	1319			.0617		
	1451			.0614	.2418	.2251
	Rebound		6400			
	1452	1		.0651		
	1453	2		.0655		
	1555			.0681		
	1759			.0684	.2348	.2198
			1600			
	1800	1		.0715		
	1801	2		.0722		
7-6-95	0709			.0822		
	0810			.0842	.2210	.2079
			400			
	0811	1		.0839		
	0812	2		.0842		
	0914			.0894		
	1048			.0918		
	1214			.0931		
	1344			.0939		
	1513			.0944		
	1642			.0948		
7-7-95	0720			.0962		

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOLIDATION
7-7-95	0841		400 (cont)	.0962	.2070	.1976
			100			
	0842	1		.0970		
	0843	2		.0971		
	0923			.0988		
	1326			.1021		
	1447			.1028		
	1550			.1032		
	1655			.1036		
	1759			.1039		
7-8-95	836			.1058		
	942			.1059	.1973	.1905

805 ATT -7

CONSOLIDATION TEST
ASTM D-2435

CLIENT SAIC/Parsons PO 140 JOB NO. 2059-13I

BORING NO.	G2-SB-7	SAMPLED	4-26-95 JC, BN
DEPTH	1.5-5.0'	TEST STARTED	6-26-95 CAL, REW
SAMPLE NO.	404632	TEST FINISHED	7-5-95 DSR
SOIL DESCR.	Fernald	CELL NUMBER	ATT-17
Note: Remolded to 85% MDD			
SAMPLE DIA.(in)	2.410	INITIAL HT.(in)	1.000

MOISTURE/DENSITY DATA	BEFORE TEST	AFTER TEST
Wt. Soil & Ring(s) (g)	176.7	178.8
Wt. Ring(s) (g)	44.7	44.7
Wt. Soil (g)	132.0	134.2
Wet Density PCF	110.2	132.9
Wt. Wet Soil & Pan (g)	135.7	137.9
Wt. Dry Soil & Pan (g)	115.1	115.1
Wt. Lost Moisture (g)	20.6	22.8
Wt. of Pan Only (g)	3.7	3.7
Wt. of Dry Soil (g)	111.4	111.4
Moisture Content %	18.5	20.5
Dry Density PCF	93.0	110.3

LOAD (PSF)	CONSOL. (IN.)
100	0.0000
100	-0.0127
200	-0.0122
400	-0.0068
800	0.0308
1600	0.0728
3200	0.1122
6400	0.1453
12800	0.1810
25600	0.2136
6400	0.1955
1600	0.1836
400	0.1677
100	0.1566

	LOAD (PSF)	LOG p	CONSOL. (IN.)	DEFL. (IN.)	VOID RATIO e
	100	2.000	0.0000	0.0000	0.8255
Saturate	100	2.000	-0.0127	0.0127	0.8487
	200	2.301	-0.0122	0.0122	0.8477
	400	2.602	-0.0068	0.0068	0.8379
	800	2.903	0.0308	-0.0308	0.7692
	1600	3.204	0.0728	-0.0728	0.6926
	3200	3.505	0.1122	-0.1122	0.6207
	6400	3.806	0.1453	-0.1453	0.5602
	12800	4.107	0.1810	-0.1810	0.4951
	25600	4.408	0.2136	-0.2136	0.4355
	6400	3.806	0.1955	-0.1955	0.4686
	1600	3.204	0.1836	-0.1836	0.4903
	400	2.602	0.1677	-0.1677	0.5193
	100	2.000	0.1566	-0.1566	0.5396

% Saturation	61.0
Sp. Gr. (g/cc)	2.720
Init. Ht. Solids (cm)	1.391
Init. Ht. Voids (cm)	1.149
Init. Void Ratio	0.8255

Data entry by: NAA Date: 7-6-95
Data checked by: CJ Date: 8-12-95
FileName:SAC03285

ADVANCED TERRA TESTING, INC.

TIME READING DATA

G2-SB-7
1.5-5.0'

1600 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.1021	0.0000
0.1	0.32	0.1276	-0.0255
0.3	0.50	0.1308	-0.0287
0.5	0.71	0.1334	-0.0313
1.0	1.00	0.1360	-0.0339
2.0	1.41	0.1383	-0.0362
4.0	2.00	0.1400	-0.0379
9.0	3.00	0.1416	-0.0395
16.0	4.00	0.1425	-0.0404
30.0	5.48	0.1431	-0.0410
60.0	7.75	0.1438	-0.0417
120.0	10.95	0.1444	-0.0423
240.0	15.49	0.1449	-0.0428
480.0	21.91	0.1453	-0.0432

3200 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.1454	0.0000
0.1	0.32	0.1695	-0.0241
0.3	0.50	0.1720	-0.0266
0.5	0.71	0.1739	-0.0285
1.0	1.00	0.1759	-0.0305
2.0	1.41	0.1779	-0.0325
4.0	2.00	0.1798	-0.0344
9.0	3.00	0.1818	-0.0364
16.0	4.00	0.1830	-0.0376
30.0	5.48	0.1839	-0.0385
60.0	7.75	0.1847	-0.0393
120.0	10.95	0.1853	-0.0399
240.0	15.49	0.1858	-0.0404
480.0	21.91	0.1864	-0.0410

6400 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.1865	0.0000
0.1	0.32	0.2021	-0.0156
0.3	0.50	0.2042	-0.0177
0.5	0.71	0.2055	-0.0190
1.0	1.00	0.2070	-0.0205
2.0	1.41	0.2087	-0.0222
4.0	2.00	0.2109	-0.0244
9.0	3.00	0.2139	-0.0274
16.0	4.00	0.2160	-0.0295
30.0	5.48	0.2180	-0.0315
60.0	7.75	0.2197	-0.0332
120.0	10.95	0.2206	-0.0341
240.0	15.49	0.2210	-0.0345
480.0	21.91	0.2212	-0.0347

12800 psf Load

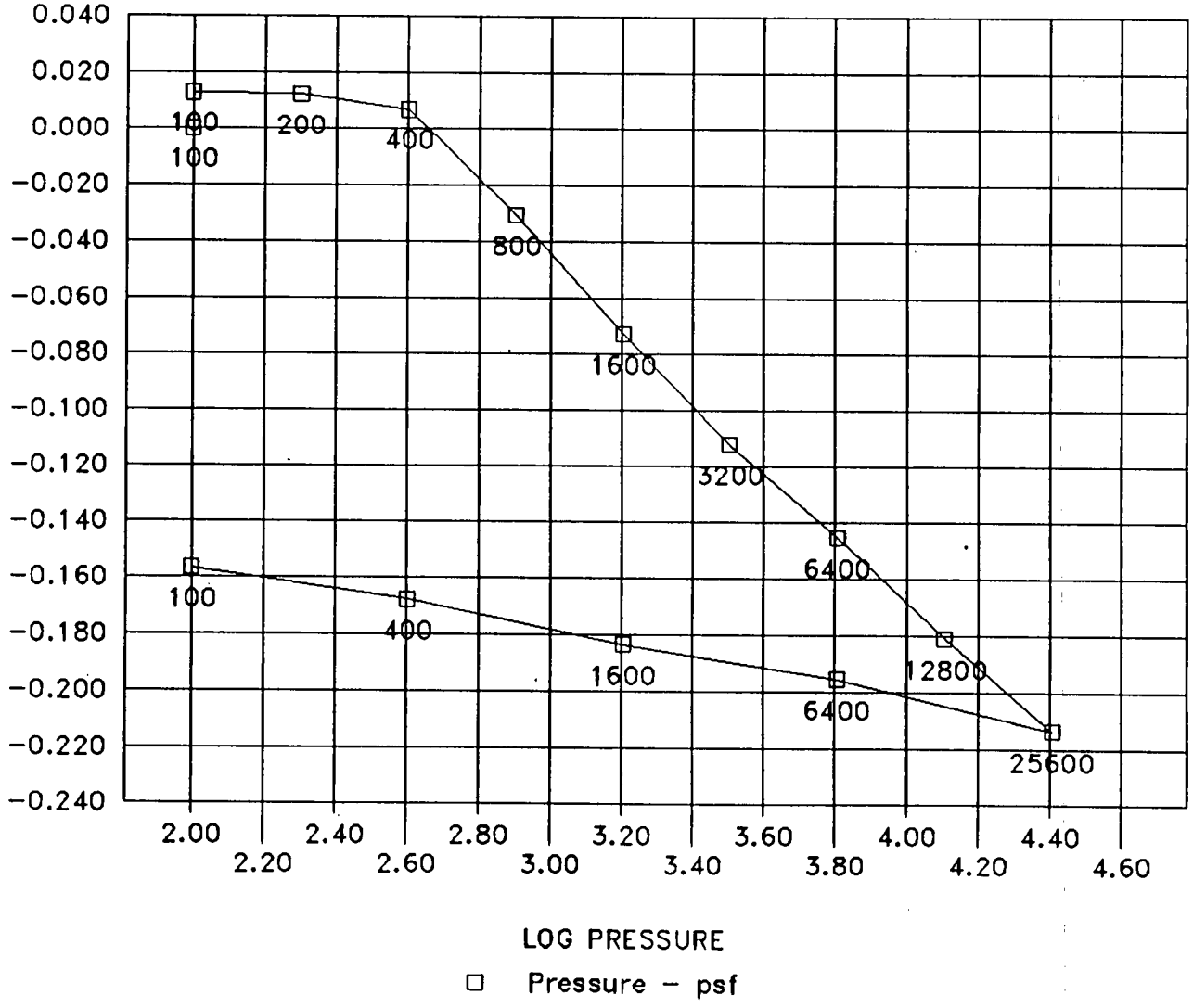
Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.2214	0.0000
0.1	0.32	0.2348	-0.0134
0.3	0.50	0.2362	-0.0148
0.5	0.71	0.2374	-0.0160
1.0	1.00	0.2386	-0.0172
2.0	1.41	0.2403	-0.0189
4.0	2.00	0.2426	-0.0212
9.0	3.00	0.2464	-0.0250
16.0	4.00	0.2496	-0.0282
30.0	5.48	0.2531	-0.0317
60.0	7.75	0.2561	-0.0347
120.0	10.95	0.2577	-0.0363
240.0	15.49	0.2585	-0.0371
480.0	21.91	0.2591	-0.0377

Data entry by: NAA Date: 7-6-95
Data checked by: CJ Date: 7-6-95
FileName:SAC03285

ADVANCED TERRA TESTING, INC.

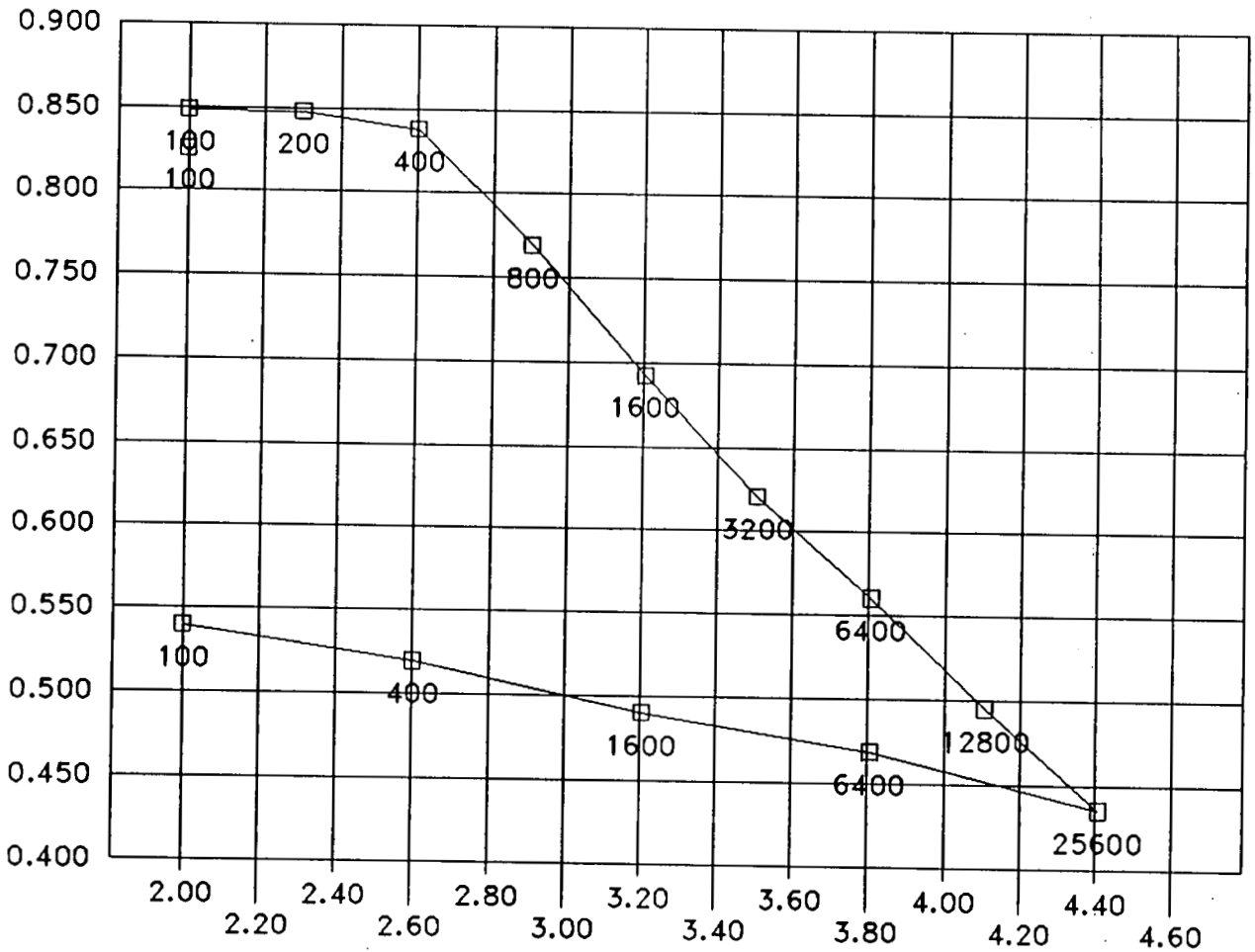
CONSOLIDATION TEST DATA

G2-SB-7,404632,1.5-5.0'



CONSOLIDATION TEST DATA

G2-SB-7,404632,1.5-5.0'



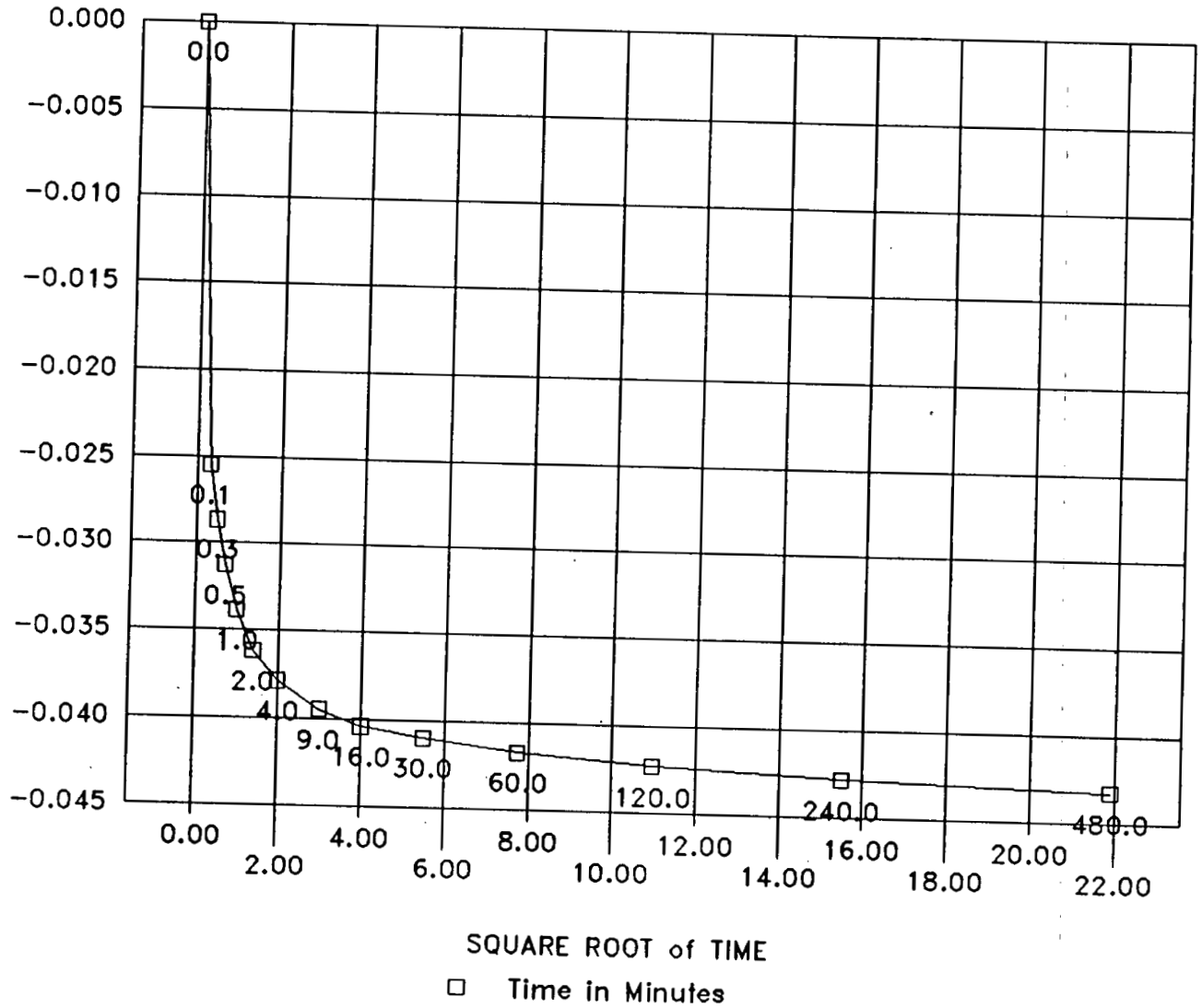
608

000823

474

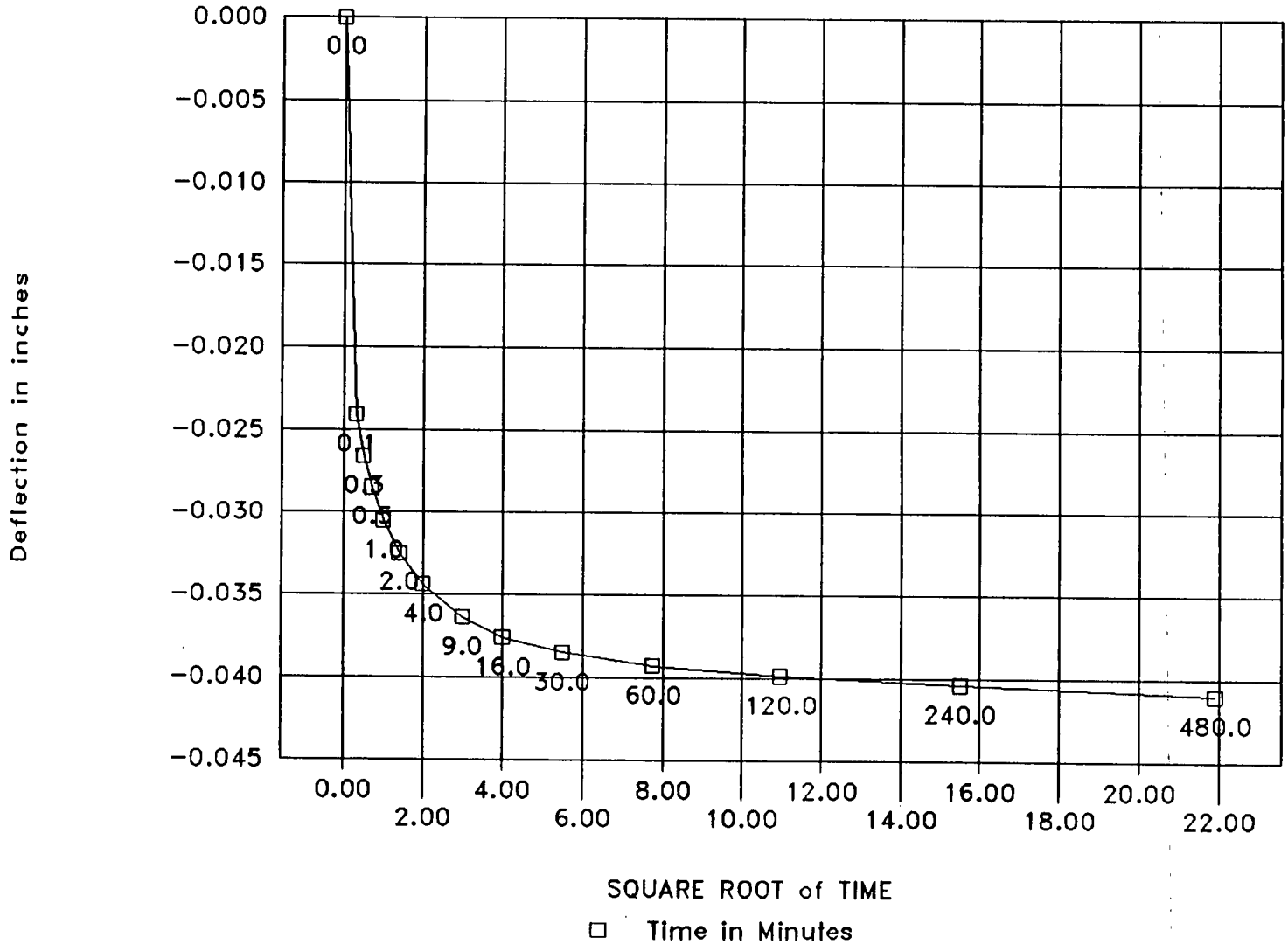
TIME READING DATA

G2-SB-7,404632,1.5-5.0',1600 psf Load



TIME READING DATA

G2-SB-7,404632,1.5-5.0',3200 psf Load



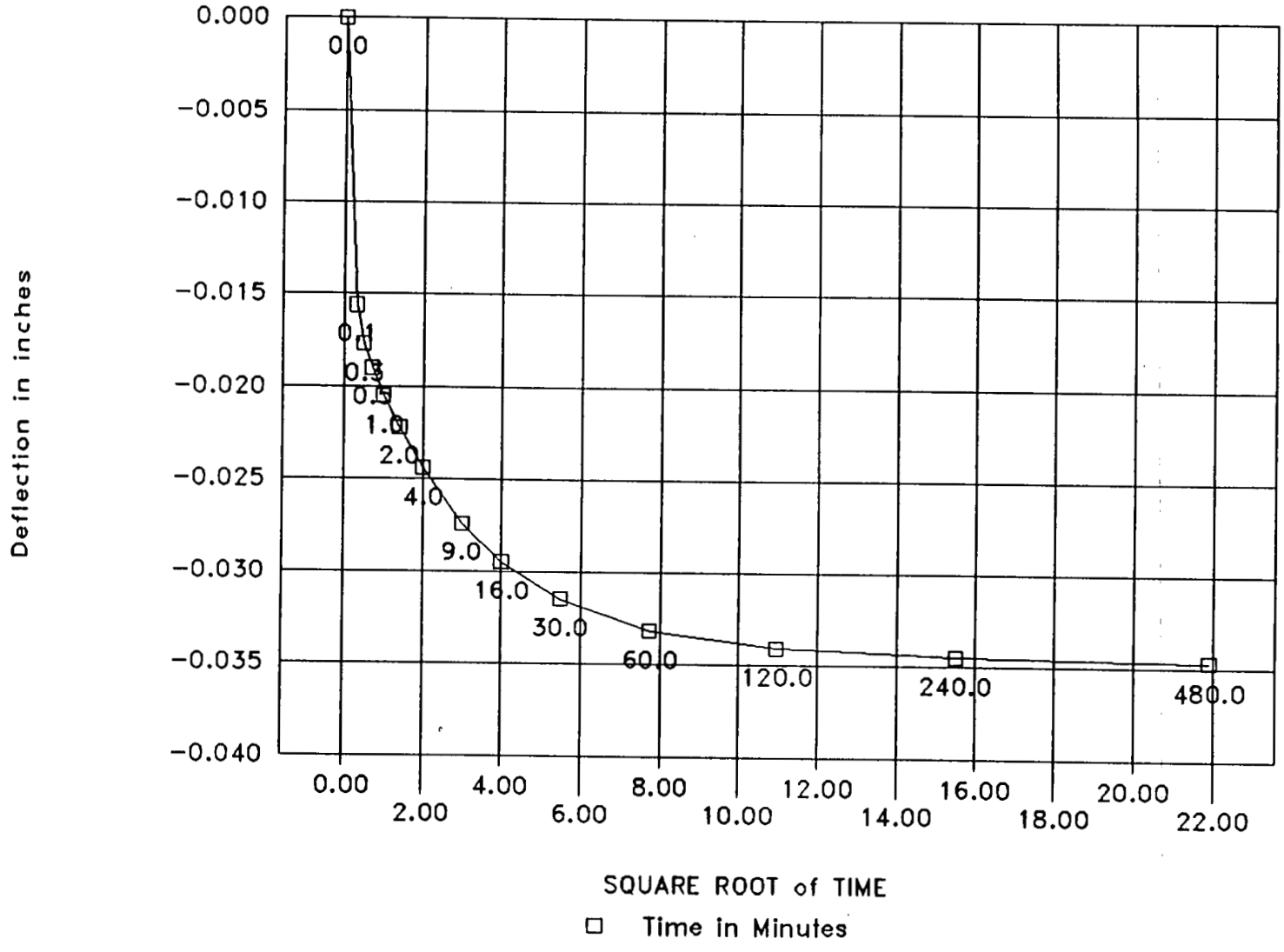
811

000875

474

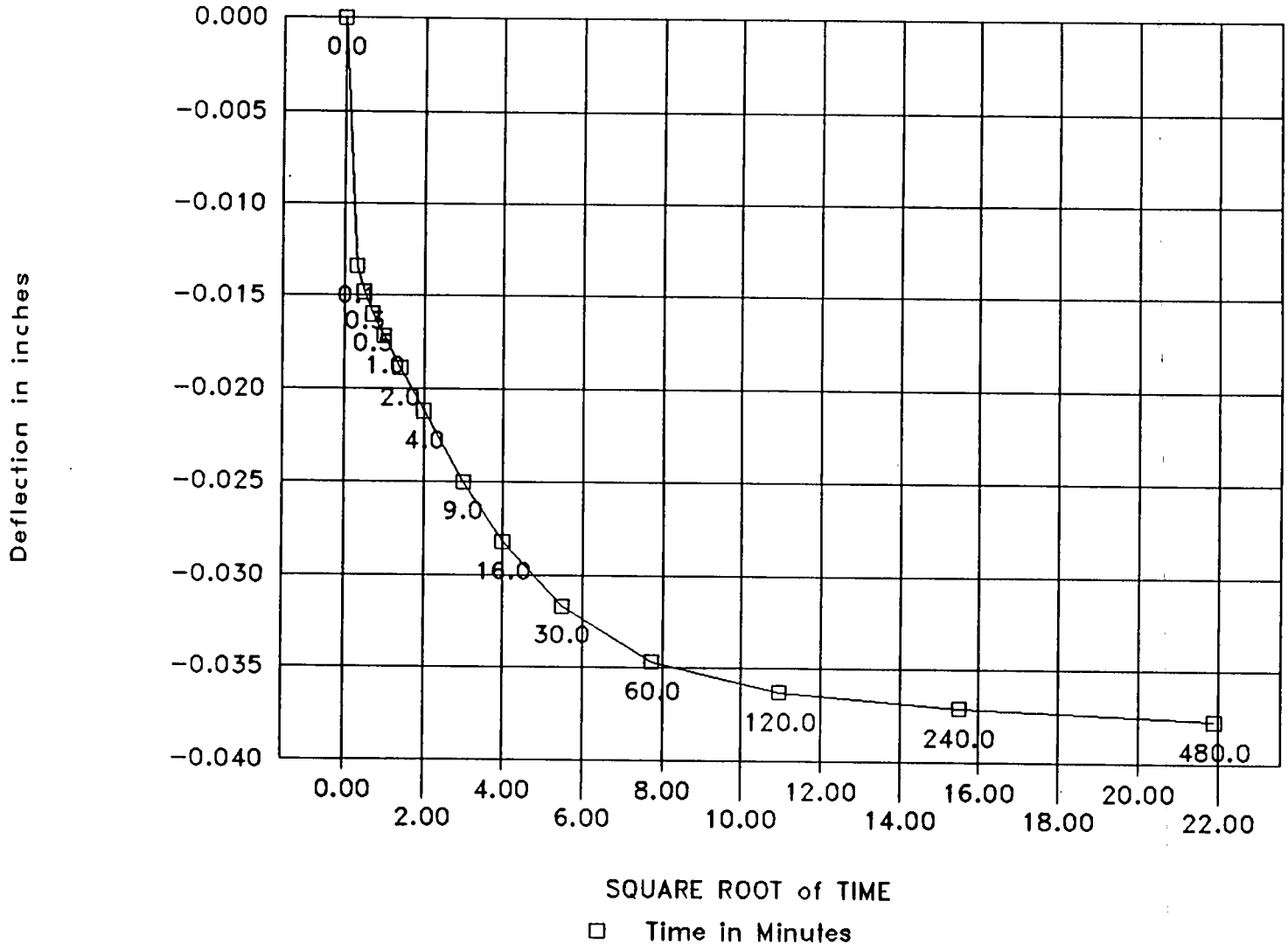
TIME READING DATA

G2-SB-7,404632,1.5-5.0',6400 psf Load



TIME READING DATA

G2-SB-7,404632,1.5-5.0',12800 psf Load



CONSOLIDATION TEST DATA SHEET

SACØ3285 SAC13285
SACC 3285 2
SACE 3285 3
4

JOB SAIC/PARSONS FO 140, Fernald JOB NO. 2059-13 I
DATE SAMPLED 4-26-95 JC, BN BORING NO. G2-SB-7
TEST STARTED 6-26-95 BY CAL/REW TEST FINISHED 7-5-95 BY DJR DEPTH 1.5-5' #404632
SOIL TYPE CON R 85
CONSOLIDOMETER NO. ATT-17 INITIAL SAMPLE HEIGHT 1.00" D_o = 2.41"

MOISTURE & DENSITY DATA		BEFORE TEST	AFTER TEST
WT. OF RING(S) + SOIL	gms.	176.67	178.84
WT. OF RING(S) ONLY	gms.	44.67	
WT. OF SOIL (NET)			
WET DENSITY IN LBS/CU. FT.*			
WT. OF WET SOIL + DISH NO. 7Z			
WT. OF DRY SOIL + DISH			
WT. OF LOST MOISTURE			
WT. OF DISH ONLY	g.	3.70	3.70
WT. OF DRY SOIL			
MOISTURE AS % OF DRY WT.			
DRY DENSITY IN LBS/CU. FT.			

TEST INSTRUCTIONS

LOAD CYCLE 100 WET 200
400 800 1600TR 3200
6400TR 12800TR 25600
REBOUND X 2

SPECIAL INSTRUCTION AND NOTES

Dry wt. soil + pan + ring = 159.76

Con R 85%

SpGR = 2.76

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOLIDATION
6-26-95			100			
	1204	1		.0685		
	1205	2		.0687		
	1213	10		.0690	.0000	
			wet			
	1214	1		.0626		
	1215	2		.0613		
	1318			.0575		
	1420			.0566		
	1529			.0563	-.0127	-.0127
			200			
	1530	1		.0567		
	1531	2		.0568		
	1632			.0573		
6-27-95	0707			.0573	-.0117	-.0122
			400			
	0708	1		.0595		
	0709	2		.0597		
	0923			.0628		
	1113			.0633		
	1221			.0634	-.0056	-.0068
			800			
	1222	1		.0912		
	1223	2		.0941		
	1328			.1010		
	1510			.1016		
	1630			.1018		

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOLIDATION
6-28-95	0716		800	.1021	-.0331	-.0308
			1600			
	0716	.1		.1276		
		.25		.1308		
		.5		.1334		
	0717	1		.1360		
	0718	2		.1385		
	0720	4		.1400		
	0725	9		.1416		
	0732	16		.1425		
	0746	30		.1431		
	0816	60		.1438		
	0916	120		.1444		
	1116	240		.1449		
	1516	480		.1453		
6-29-95	0722			.1454	-.0764	-.0728
			3200	WB		
	0722	.1		.1695		
		.25		.1720		
		.5		.1739		
	0723	1		.1759		
	0724	2		.1779		
	0726	4		.1798		
	0731	9		.1818		
	0738	16		.1830		
	0752	30		.1839		
	0822	60		.1847		
	0922	120		.1853		
	1122	240		.1858		
	1522	480		.1864		

CONTINUED ON REVERSE SIDE

ADVANCED TERRA TESTING

2059-13 I
G2-SB-7 1.5-5.0'
404632 Con ros

CONSOLIDATION TEST DATA SHEET (CONTINUED)

DATE	TIME	E-LAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOL-IDATION
6-30-95	705		3200 (cont)	.1865	.1175	.1122
	0826			.1865		
			6400			
	0827	.1		.2021		
		.25		.2042		
		.5		.2055		
	0828	1		.2070		
	0829	2		.2087		
	0831	4		.2109		
	0836	9		.2139		
	0843	16		.2160		
	0857	30		.2180		
	0927	60		.2197		
	1027	120		.2206		
	1227	240		.2210		
	1627	480		.2212		
7-1-95	716			.2214	.1524	.1453
		.1	12800	.2348		
		.25		.2362		
		.5		.2374		
	717	1		.2386		
	718	2		.2403		
	720	4		.2426		
	725	9		.2464		
	732	16		.2496		
	746	30		.2531		
	816	60		.2561		
	916	120		.2577		
	1116	240		.2585		
	1516	480		.2591		
7-2-95	0703			.2597		
	0939			.2597	.1907	.1810
			25600			
	0940	1		.2684		
	0941	2		.2734		
	1056			.2924		
	1205			.2936		
	1305			.2941		
7-3-95	0715			.2954	.2264	.2136
			6400			
	0716	1		.2901		
	0717	2		.2896		
	0818			.2864		
	0924			.2861		
	1025			.2860	.2170	.1955
			1600			
	1026	1		.2817		
	1027	2		.2813		
	1145			.2737		
	1359			.2720		
	1520			.2716		
	1623			.2715	.2025	.1836
			400			
	1624	1		.2695		
	1625	2		.2693		

DATE	TIME	E-LAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOL-IDATION
7-3-95	1729		400 cont	.2620		
7-4-95	1047		.2545	~~.2555~~ .2548		
	1213			.2544	.1854	.1677
			100			
	1214	1		.2536		
	1215	2		.2535		
	1328			.2504		
7-5-95	0734			.2430		
	0836			.2428	.1738	.1566

CONSOLIDATION TEST

ASTM D-2435

CLIENT SAIC/Parsons PO 140

JOB NO. 2059-13I

BORING NO.	G2-SB-11	SAMPLED	4-27-95 JC, BN
DEPTH	1.5-5.0'	TEST STARTED	6-22-95 CAL
SAMPLE NO.	404642	TEST FINISHED	7-3-95 WEB
SOIL DESCR.	Fernald	CELL NUMBER	ATT-9
Note: Remolded to 85% MDD			
SAMPLE DIA.(in)	2.410	INITIAL HT.(in)	1.000

MOISTURE/DENSITY DATA	BEFORE TEST	AFTER TEST
Wt. Soil & Ring(s) (g)	183.6	186.4
Wt. Ring(s) (g)	45.2	45.2
Wt. Soil (g)	138.4	141.2
Wet Density PCF	115.5	140.1
Wt. Wet Soil & Pan (g)	142.1	144.9
Wt. Dry Soil & Pan (g)	125.1	125.1
Wt. Lost Moisture (g)	17.0	19.8
Wt. of Pan Only (g)	3.7	3.7
Wt. of Dry Soil (g)	121.4	121.4
Moisture Content %	14.0	16.3
Dry Density PCF	101.3	120.4

LOAD (PSF)	CONSOL. (IN.)
100	0.0000
100	-0.0077
200	-0.0059
400	0.0124
800	0.0499
1600	0.0788
3200	0.1116
6400	0.1411
12800	0.1679
25600	0.1912
6400	0.1864
1600	0.1787
400	0.1682
100	0.1583

	LOAD (PSF)	LOG p	CONSOL. (IN.)	DEFL. (IN.)	VOID RATIO e
	100	2.000	0.0000	0.0000	0.7064
Saturate	100	2.000	-0.0077	0.0077	0.7196
	200	2.301	-0.0059	0.0059	0.7165
	400	2.602	0.0124	-0.0124	0.6853
	800	2.903	0.0499	-0.0499	0.6213
	1600	3.204	0.0788	-0.0788	0.5720
	3200	3.505	0.1116	-0.1116	0.5160
	6400	3.806	0.1411	-0.1411	0.4657
	12800	4.107	0.1679	-0.1679	0.4199
	25600	4.408	0.1912	-0.1912	0.3802
	6400	3.806	0.1864	-0.1864	0.3884
	1600	3.204	0.1787	-0.1787	0.4015
	400	2.602	0.1682	-0.1682	0.4194
	100	2.000	0.1583	-0.1583	0.4363

% Saturation	54.9
Sp. Gr. (g/cc)	2.770
Init. Ht. Solids (cm)	1.488
Init. Ht. Voids (cm)	1.052
Init. Void Ratio	0.7064

Data entry by: NAA Date: 7-5-95
Data checked by: CJ Date: 8-12-95
FileName:SAC0642

ADVANCED TERRA TESTING, INC.

TIME READING DATA

G2-SB-11
1.5-5.0'

1600 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.0530	0.0000
0.1	0.32	0.0661	-0.0131
0.3	0.50	0.0691	-0.0161
0.5	0.71	0.0714	-0.0184
1.0	1.00	0.0738	-0.0208
2.0	1.41	0.0761	-0.0231
4.0	2.00	0.0777	-0.0247
9.0	3.00	0.0795	-0.0265
16.0	4.00	0.0802	-0.0272
30.0	5.48	0.0810	-0.0280
60.0	7.75	0.0816	-0.0286
120.0	10.95	0.0820	-0.0290
240.0	15.49	0.0824	-0.0294
480.0	21.91	0.0828	-0.0298

3200 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.0831	0.0000
0.1	0.32	0.1023	-0.0192
0.3	0.50	0.1045	-0.0214
0.5	0.71	0.1064	-0.0233
1.0	1.00	0.1080	-0.0249
2.0	1.41	0.1099	-0.0268
4.0	2.00	0.1118	-0.0287
9.0	3.00	0.1137	-0.0306
16.0	4.00	0.1145	-0.0314
30.0	5.48	0.1153	-0.0322
60.0	7.75	0.1159	-0.0328
120.0	10.95	0.1164	-0.0333
240.0	15.49	0.1168	-0.0337
480.0	21.91	0.1171	-0.0340

6400 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.1174	0.0000
0.1	0.32	0.1337	-0.0163
0.3	0.50	0.1357	-0.0183
0.5	0.71	0.1372	-0.0198
1.0	1.00	0.1387	-0.0213
2.0	1.41	0.1406	-0.0232
4.0	2.00	0.1426	-0.0252
9.0	3.00	0.1447	-0.0273
16.0	4.00	0.1458	-0.0284
30.0	5.48	0.1468	-0.0294
60.0	7.75	0.1474	-0.0300
120.0	10.95	0.1479	-0.0305
240.0	15.49	0.1482	-0.0308
480.0	21.91	0.1486	-0.0312

12800 psf Load

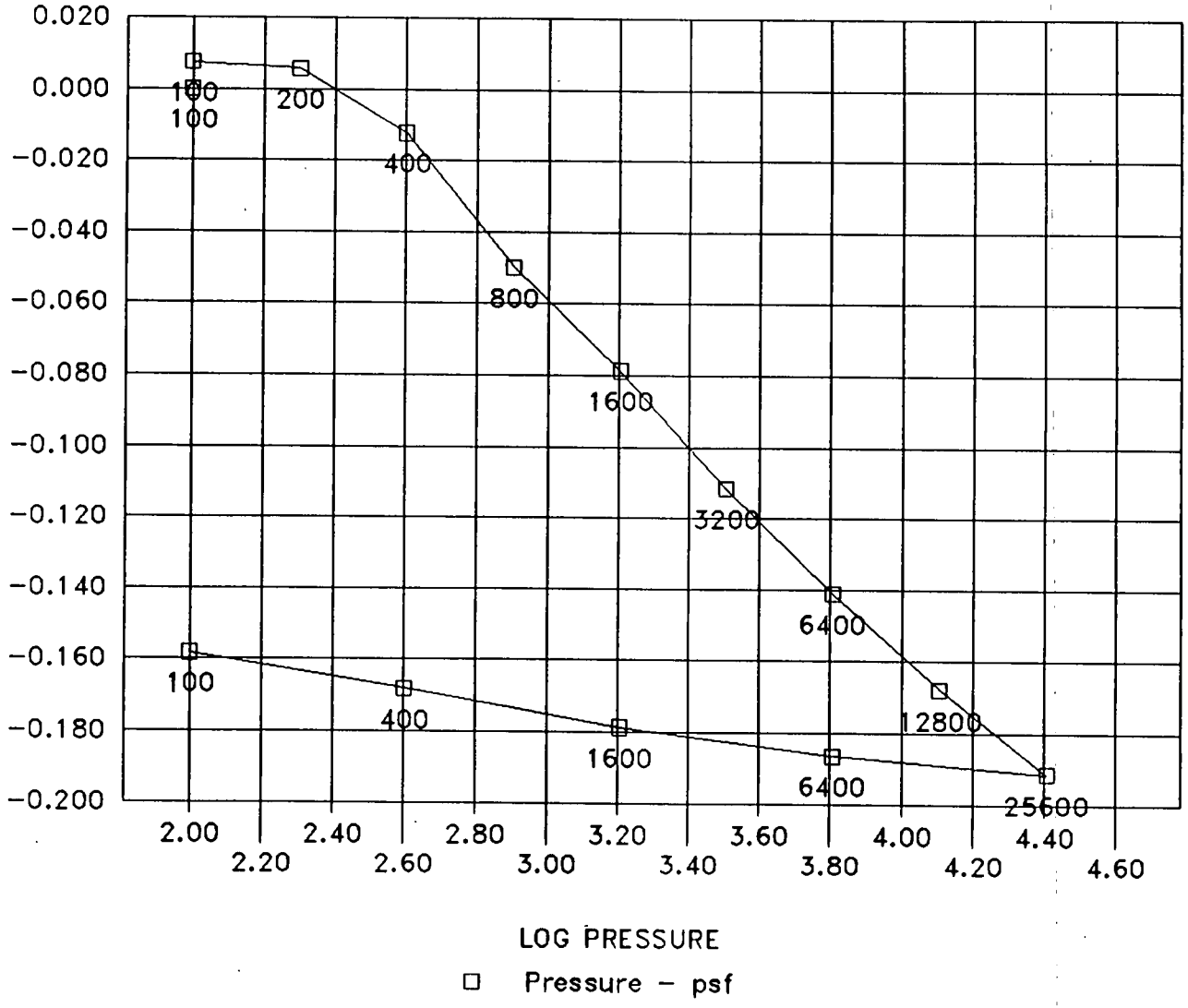
Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.1488	0.0000
0.1	0.32	0.1620	-0.0132
0.3	0.50	0.1636	-0.0148
0.5	0.71	0.1645	-0.0157
1.0	1.00	0.1664	-0.0176
2.0	1.41	0.1683	-0.0195
4.0	2.00	0.1704	-0.0216
9.0	3.00	0.1728	-0.0240
16.0	4.00	0.1739	-0.0251
33.0	5.74	0.1750	-0.0262
60.0	7.75	0.1755	-0.0267
120.0	10.95	0.1761	-0.0273
240.0	15.49	0.1766	-0.0278
480.0	21.91	0.1770	-0.0282

Data entry by: NAA Date: 7-5-95
Data checked by: CW Date: 7-5-95
FileName:SAC0642

ADVANCED TERRA TESTING, INC.

CONSOLIDATION TEST DATA

G2-SB-11,404642,1.5-5.0'



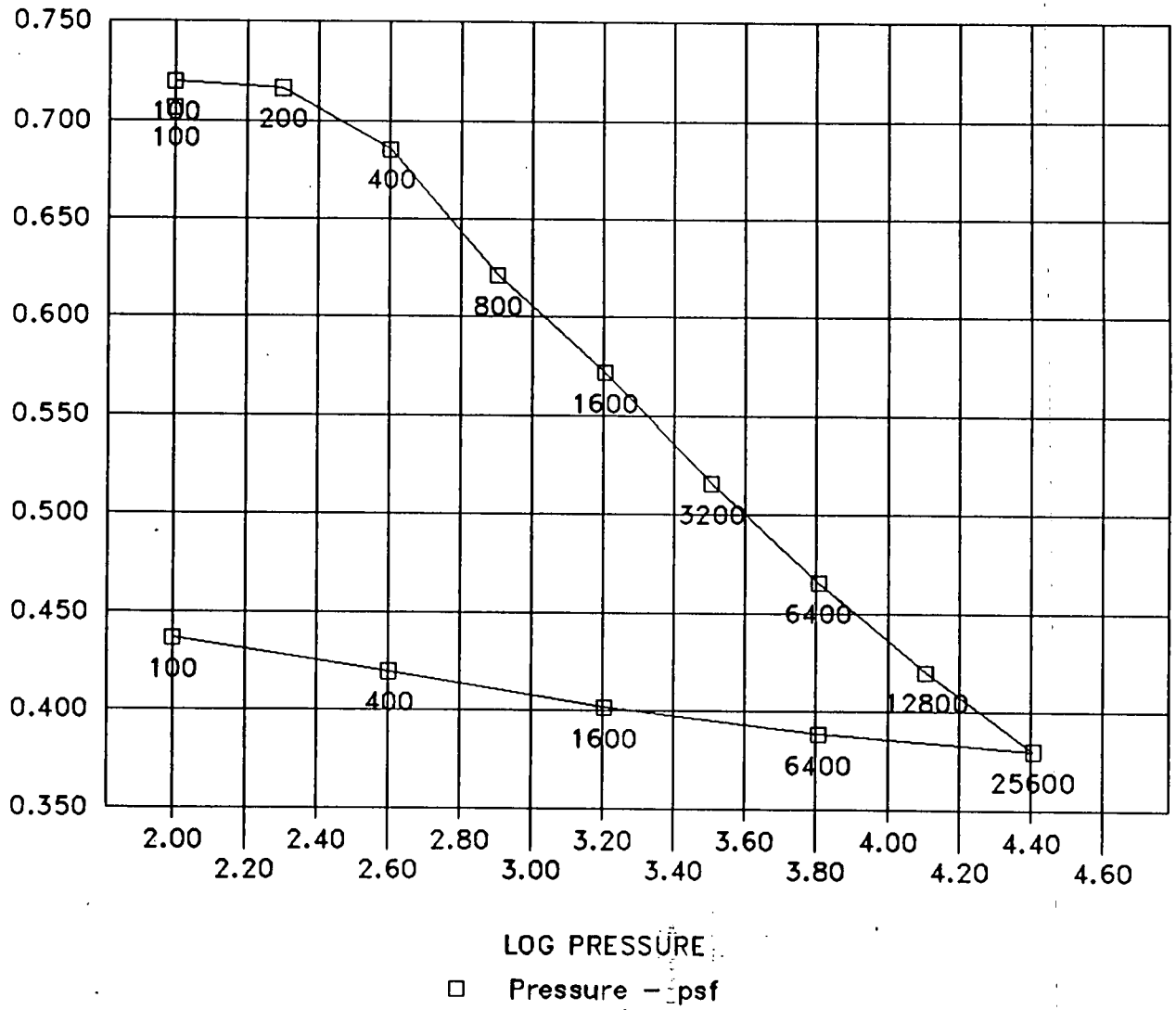
818

000882

474

CONSOLIDATION TEST DATA

G2-SB-11,404642,1.5-5.0'



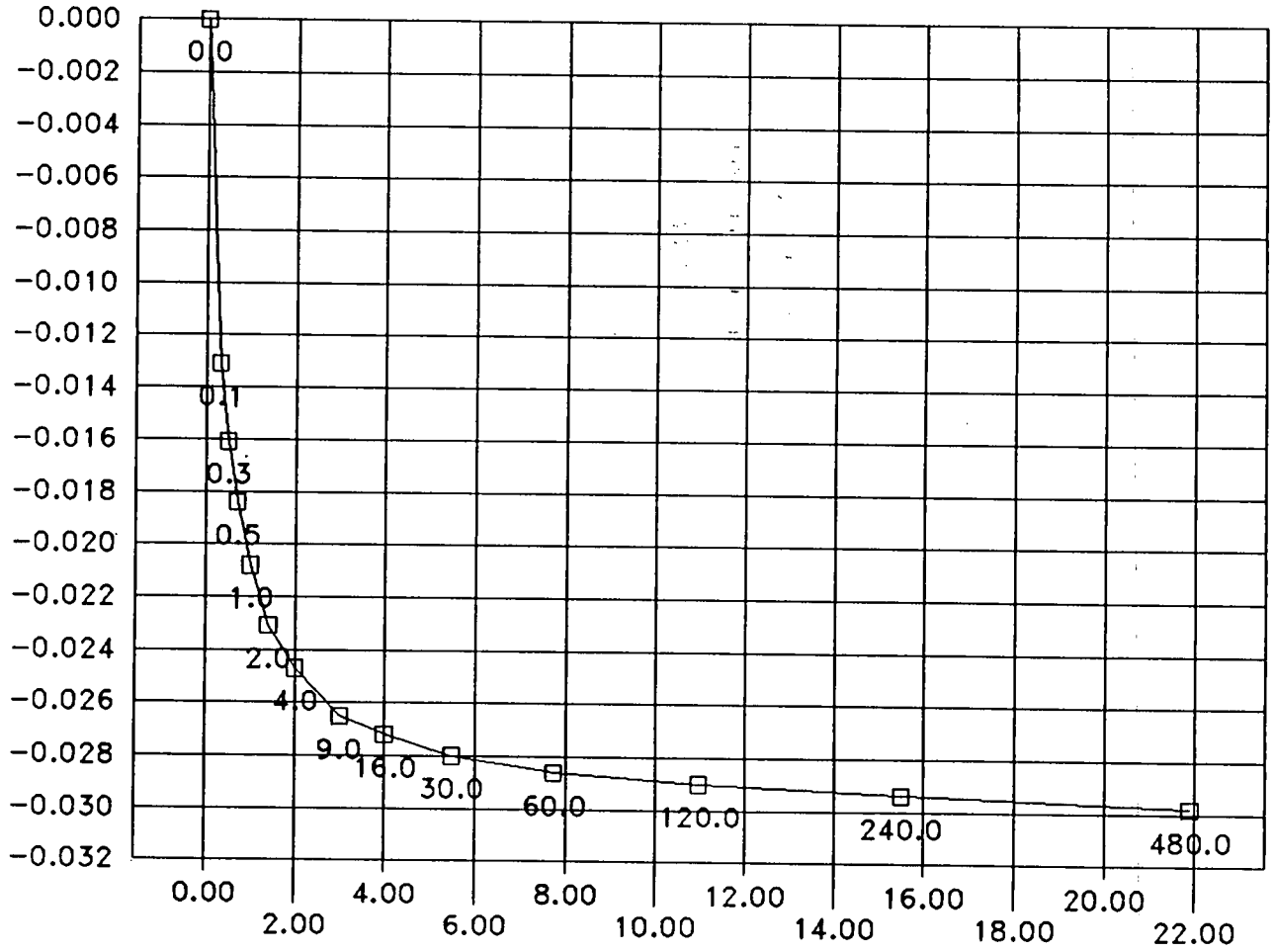
819

000883

424

TIME READING DATA

G2-SB-11,404642,1.5-5.0',1600 psf Load



□ Time in Minutes

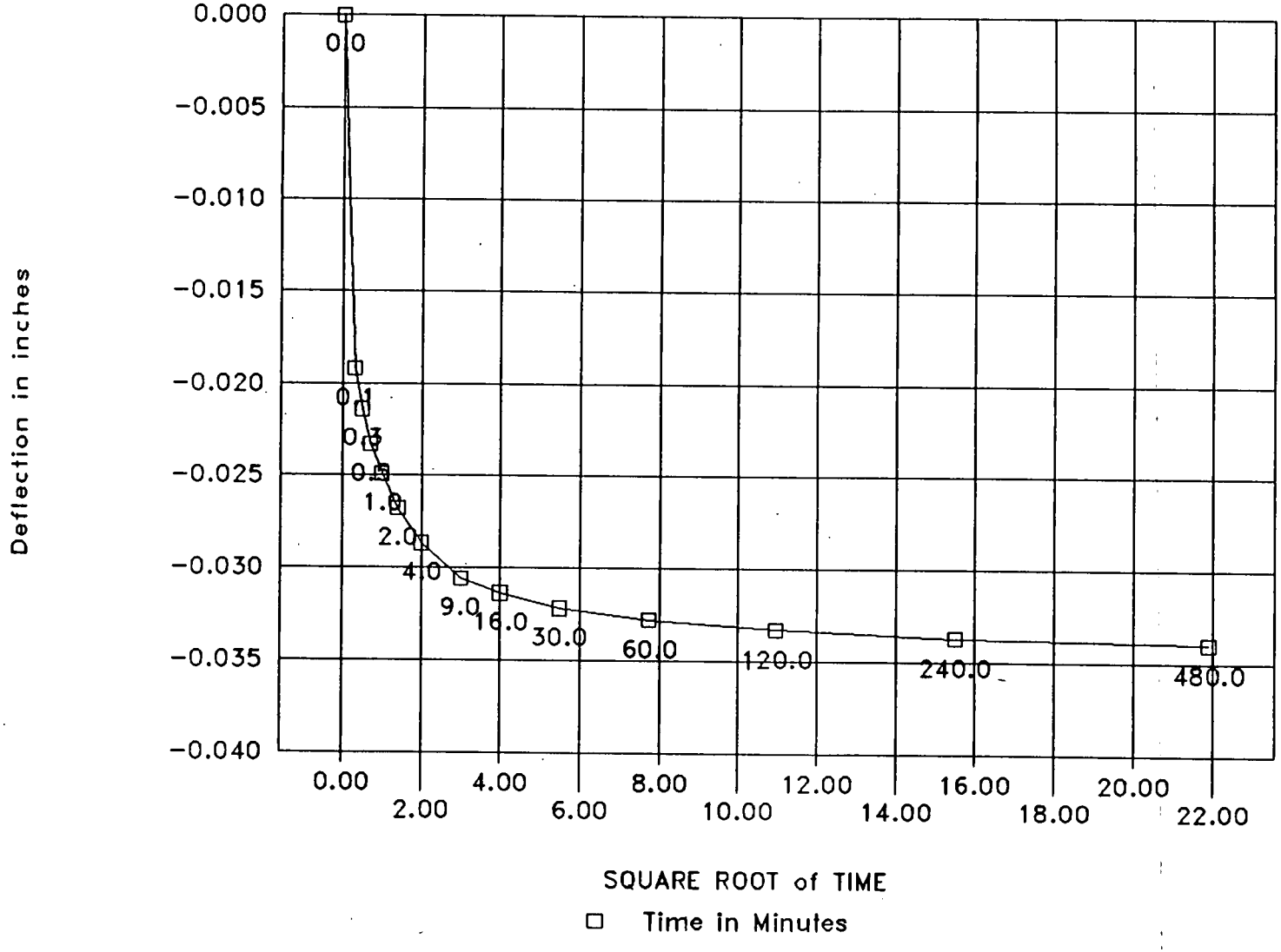
820

00088

4744

TIME READING DATA

G2-SB-11,404642,1.5-5.0',3200 psf Load



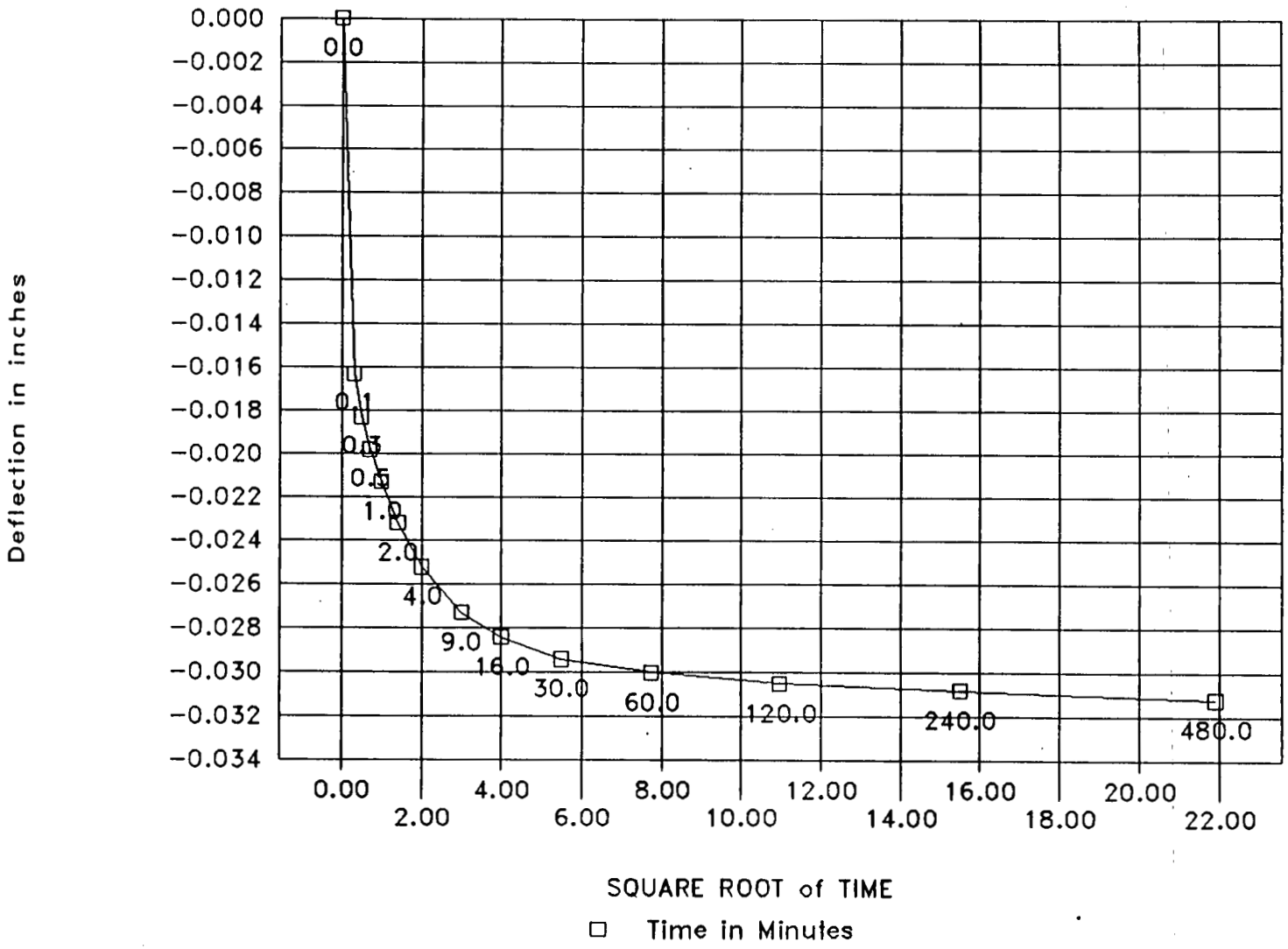
821

000885

4724

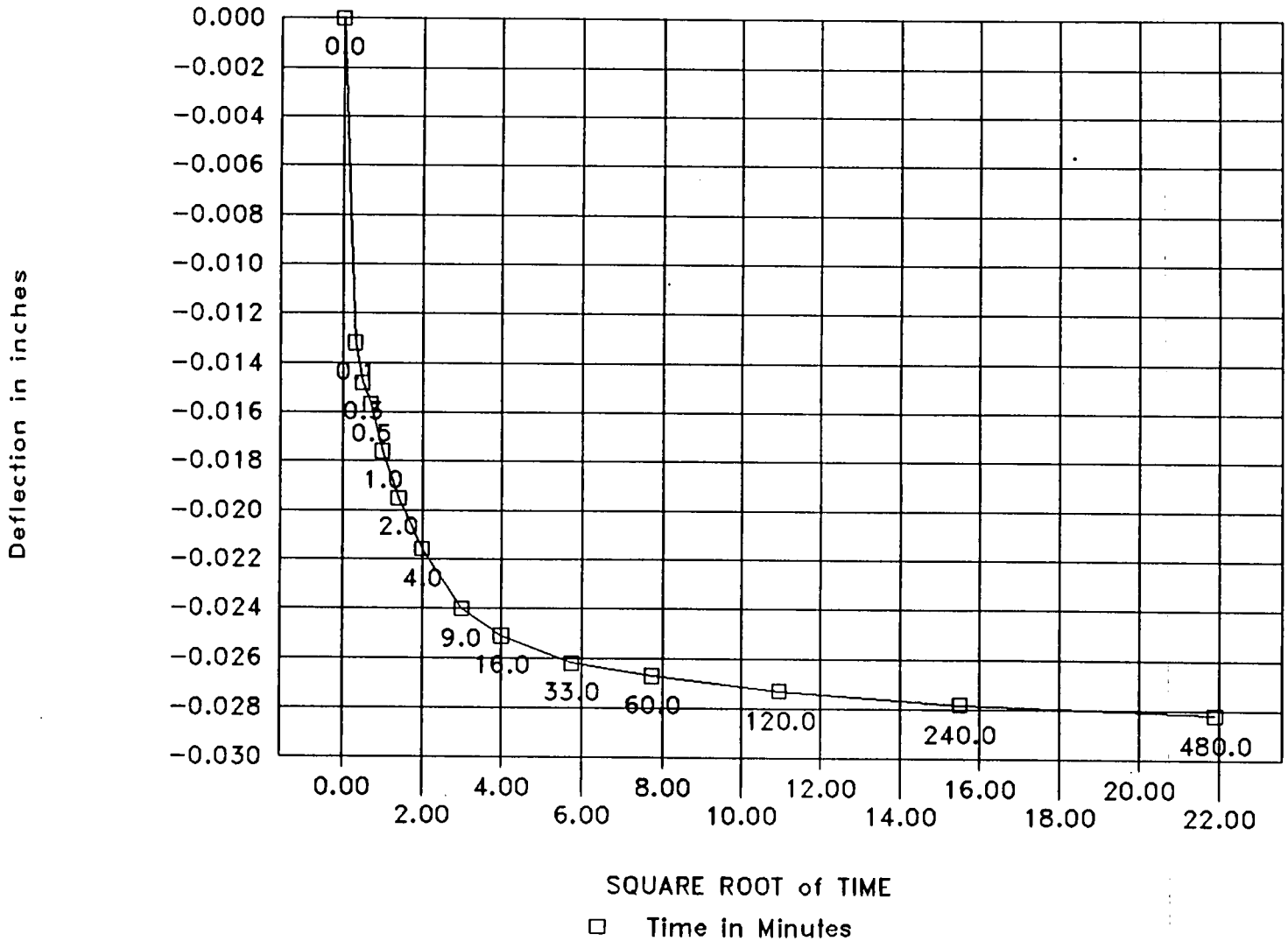
TIME READING DATA

G2-SB-11,404642,1.5-5.0',6400 psf Load



TIME READING DATA

G2-SB-11,404642,1.5-5.0',12800 psf Load



CONSOLIDATION TEST DATA SHEET

SACØ642 SAC1642
SACC642 2
SACE642 3
4

JOB SAIC/PARSONS PO 140, Fernald JOB NO. 2059-13 I
DATE SAMPLED 4-27-95 JC, BN BORING NO. 62-SB-11
TEST STARTED 6-22-95 BY cae TEST FINISHED 7-3-95 BY WEB DEPTH 1.5-5' #404642
SOIL TYPE Con 85
CONSOLIDOMETER NO. ATT-9 INITIAL SAMPLE HEIGHT 1.00" Do 2.41"

MOISTURE & DENSITY DATA	BEFORE TEST	AFTER TEST
WT. OF RING(S)+ SOIL gms	183.59	186.43
WT. OF RING(S) ONLY gms	45.24	45.24
WT. OF SOIL (NET)		
WET DENSITY IN LBS/CU. FT.*		
WT. OF WET SOIL + DISH NO. HØ		
WT. OF DRY SOIL + DISH		
WT. OF LOST MOISTURE		
WT. OF DISH ONLY gms	3.71	
WT. OF DRY SOIL		
MOISTURE AS % OF DRY WT.		
DRY DENSITY IN LBS/CU. FT.		

TEST INSTRUCTIONS

LOAD CYCLE 100 WET 200
400 800 1600 TR 3200
6400 TR 12800 TR 25600
REBOUND x 2

SPECIAL INSTRUCTION AND NOTES
Dry wt soil + pan + ring 170.30

Sfar = 2.77

DATE	TIME	E-LAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOL-IDATION
6-22-95	1719	1	100	.0009		
	1720	2		.0010		
	1728	10		.0011		.0000
	1729	1	WET	-.0050		
	1730	2		-.0054		
6-23-95	0701			-.0065		
	0802			-.0066	-.0077	-.0077
	0803	1	200	-.0055		
	0804	2		-.0054		
	0856			-.0046		
	0956			-.0043	-.0054	-.0059
	0957	1	400	.0073		
	0958	2		.0092		
	1107			.0144		
	1202			.0147	.0136	.0124
	1203	1	800	.0460		
	1204	2		.0479		
	1319			.0519		
	1533			.0524		
6-24-95	0749			.0526		
6-25-95	0734			.0528		
6-26-95	0730			.0530	.0519	.0499
			1600			
	0730	.1		.0661		
		.25		.0691		
		.5		.0714		

DATE	TIME	E-LAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOL-IDATION
	0731	1		~~.0714~~ WB .0738		
	0732	2		.0761		
	0734	4		.0777		
	0739	9		.0795		
	0746	16		.0802		
	0800	30		.0810		
0830	~~0900~~	60		.0816		
	0930	120		.0820		
	1130	240		.0824		
	1530	480		.0828		
6-27-95	0720			.0831	.0820	.0788
			3200			
	0720	.1		.1023		
		.25		.1045		
		.5		.1064		
	0721	1		.1080		
	0722	2		.1099		
	0724	4		.1118		
	0729	9		.1137		
	0736	16		.1145		
	0750	30		.1153		
	0820	60		.1159		
	0920	120		.1164		
	1120	240		.1168		
	1520	480		.1171		
6-28-95	0733			.1174	.1163	.1116
			6400			
		.1		.1337		
		.25		.1357		
		.5		.1372		

ADVANCED TERRA TESTING

824

CONTINUED ON REVERSE SIDE

SAIC/PARSONS PO140' **474**

CONSOLIDATION TEST DATA SHEET (CONTINUED) 62-SB-11 404642 1.5-5' PAGE 2 OF 2

DATE	TIME	E-LAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOL-IDATION
6-28-95	0734	1	6400	.1387		
	0735	2		.1406		
	0737	4		.1426		
	0742	9		.1447		
	0749	16		.1458		
	0803	30		.1468		
	0833	60		.1474		
	0933	120		.1479		
	1133	240		.1482		
	1533	480		.1486		
6-29-95	0737			.1488	.1477	.1411
			12800			
	0737	.1		.1620		
		.25		.1656		
		.5		.1645		
	0738	1		.1664		
	0739	2		.1683		
	0741	4		.1704		
	0746	9		~~.1712~~ .1728		
	0753	16		.1739		
0810	~~0807~~ ~~30~~		33	.1750		
	0837	60		.1755		
	0937	120		.1761		
	1137	240		.1766		
	1537	480		.1770		
6-30-95	708			.1772	.1761	.1679
	709	1	25600	.1903		
	710	2		.1933		
	0829			.2017		
	947			.2023		
	1114			.2026		
	1228			.2028	.2017	.1912
			6400			
	1232	1		.1981		
	1233	2		.1979		
	1351			.1973		
	1515			.1973	.1962	.1864
			1600			
	1517	1		.1927		
	1518	2		.1919		
7-1-95	719			.1879		
	821			.1879	.1868	.1787
	822	1	400	.1857		
	823	2		.1849		
	921			.1788		
	1117			.1776		
7-2-95	0901			.1763		
	0929			.1763	.1752	.1682
			100			
	0930	1		.1752		
	0931	2		.1750		
	1055			.1702		
	1204			.1689		

DATE	TIME	E-LAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOL-IDATION
7-2-95	1304		100	.1683		
7-3-95	0717			.1657		
	0836			.1657	.1646	.1583

CONSOLIDATION TEST
ASTM D-2435

CLIENT SAIC/Parsons PO 140 JOB NO. 2059-13I

BORING NO.	G2-SB-2,3,4,6 Top Soil	SAMPLED	4-25-95 JC, BN
DEPTH	0.0-1.5'	TEST STARTED	6-26-95 CAL, REW
SAMPLE NO.	404617	TEST FINISHED	7-5-95 DSR
SOIL DESCR.	Fernald	CELL NUMBER	ATT-7
Note: Remolded to 85% MDD			
SAMPLE DIA.(in)	2.410	INITIAL HT.(in)	1.000

MOISTURE/DENSITY DATA	BEFORE TEST	AFTER TEST
Wt. Soil & Ring(s) (g)	172.1	176.7
Wt. Ring(s) (g)	45.7	45.7
Wt. Soil (g)	126.4	131.0
Wet Density PCF	105.6	128.7
Wt. Wet Soil & Pan (g)	130.2	134.9
Wt. Dry Soil & Pan (g)	111.5	111.5
Wt. Lost Moisture (g)	18.8	23.4
Wt. of Pan Only (g)	3.8	3.8
Wt. of Dry Soil (g)	107.6	107.6
Moisture Content %	17.4	21.7
Dry Density PCF	89.9	105.7

LOAD (PSF)	CONSOL. (IN.)
100	0.0000
100	-0.0068
200	-0.0054
400	-0.0021
800	0.0070
1600	0.0421
3200	0.0833
6400	0.1178
12800	0.1561
25600	0.1900
6400	0.1843
1600	0.1760
400	0.1612
100	0.1498

	LOAD (PSF)	LOG p	CONSOL. (IN.)	DEFL. (IN.)	VOID RATIO e
	100	2.000	0.0000	0.0000	0.8128
Saturate	100	2.000	-0.0068	0.0068	0.8252
	200	2.301	-0.0054	0.0054	0.8226
	400	2.602	-0.0021	0.0021	0.8166
	800	2.903	0.0070	-0.0070	0.8001
	1600	3.204	0.0421	-0.0421	0.7365
	3200	3.505	0.0833	-0.0833	0.6618
	6400	3.806	0.1178	-0.1178	0.5993
	12800	4.107	0.1561	-0.1561	0.5299
	25600	4.408	0.1900	-0.1900	0.4684
	6400	3.806	0.1843	-0.1843	0.4787
	1600	3.204	0.1760	-0.1760	0.4938
	400	2.602	0.1612	-0.1612	0.5206
	100	2.000	0.1498	-0.1498	0.5413

% Saturation	56.0
Sp. Gr. (g/cc)	2.610
Init. Ht. Solids (cm)	1.401
Init. Ht. Voids (cm)	1.139
Init. Void Ratio	0.8128

Data entry by: NAA Date: 7-6-95
Data checked by: GJ Date: 8-12-95
FileName:SAC01785

ADVANCED TERRA TESTING, INC.

TIME READING DATA

G2-SB-2,3,4,6 Top Soil
0.0-1.5'

1600 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.0090	0.0000
0.1	0.32	0.0148	-0.0058
0.3	0.50	0.0164	-0.0074
0.5	0.71	0.0180	-0.0090
1.0	1.00	0.0203	-0.0113
2.0	1.41	0.0235	-0.0145
4.0	2.00	0.0270	-0.0180
9.0	3.00	0.0314	-0.0224
16.0	4.00	0.0339	-0.0249
30.0	5.48	0.0364	-0.0274
60.0	7.75	0.0388	-0.0298
120.0	10.95	0.0408	-0.0318
240.0	15.49	0.0424	-0.0334
480.0	21.91	0.0438	-0.0348

3200 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.0453	0.0000
0.1	0.32	0.0612	-0.0159
0.3	0.50	0.0651	-0.0198
0.5	0.71	0.0680	-0.0227
1.0	1.00	0.0706	-0.0253
2.0	1.41	0.0732	-0.0279
4.0	2.00	0.0754	-0.0301
9.0	3.00	0.0778	-0.0325
16.0	4.00	0.0793	-0.0340
30.0	5.48	0.0808	-0.0355
60.0	7.75	0.0824	-0.0371
120.0	10.95	0.0838	-0.0385
240.0	15.49	0.0851	-0.0398
480.0	21.91	0.0864	-0.0411

6400 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.0880	0.0000
0.1	0.32	0.0965	-0.0085
0.3	0.50	0.1009	-0.0129
0.5	0.71	0.1046	-0.0166
1.0	1.00	0.1072	-0.0192
2.0	1.41	0.1097	-0.0217
4.0	2.00	0.1119	-0.0239
9.0	3.00	0.1142	-0.0262
16.0	4.00	0.1156	-0.0276
30.0	5.48	0.1171	-0.0291
60.0	7.75	0.1186	-0.0306
120.0	10.95	0.1199	-0.0319
240.0	15.49	0.1211	-0.0331
480.0	21.91	0.1223	-0.0343

12800 psf Load

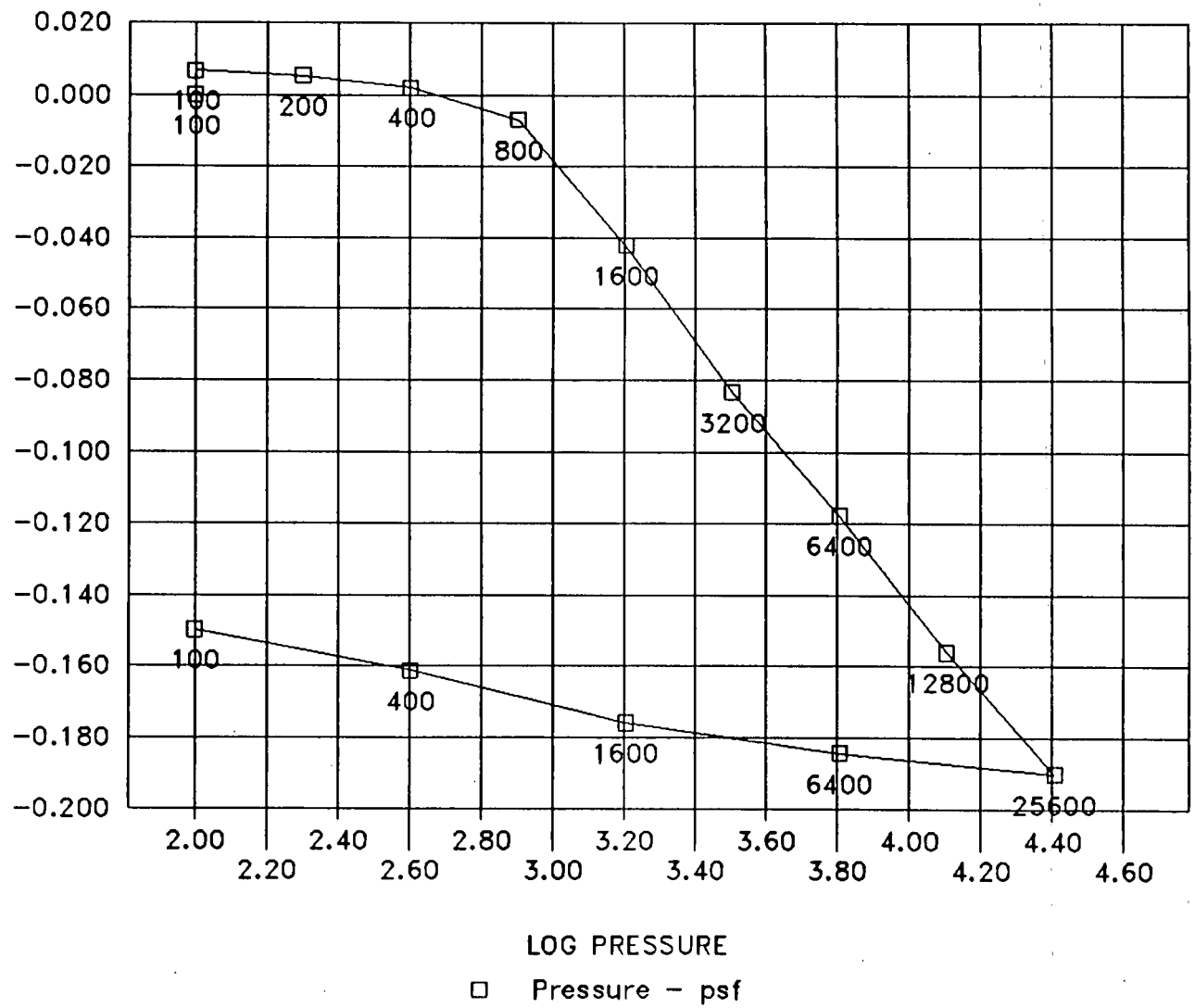
Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.1236	0.0000
0.1	0.32	0.1357	-0.0121
0.3	0.50	0.1416	-0.0180
0.5	0.71	0.1443	-0.0207
1.0	1.00	0.1469	-0.0233
2.0	1.41	0.1495	-0.0259
4.0	2.00	0.1518	-0.0282
9.0	3.00	0.1543	-0.0307
16.0	4.00	0.1558	-0.0322
30.0	5.48	0.1572	-0.0336
60.0	7.75	0.1585	-0.0349
120.0	10.95	0.1597	-0.0361
240.0	15.49	0.1609	-0.0373
480.0	21.91	0.1622	-0.0386

Data entry by: NAA Date: 7-6-95
Data checked by: CJ Date: 8-12-95
FileName:SAC01785

ADVANCED TERRA TESTING, INC.

CONSOLIDATION TEST DATA

G2-SB-2,3,4,6,404617,0.0-1.5'



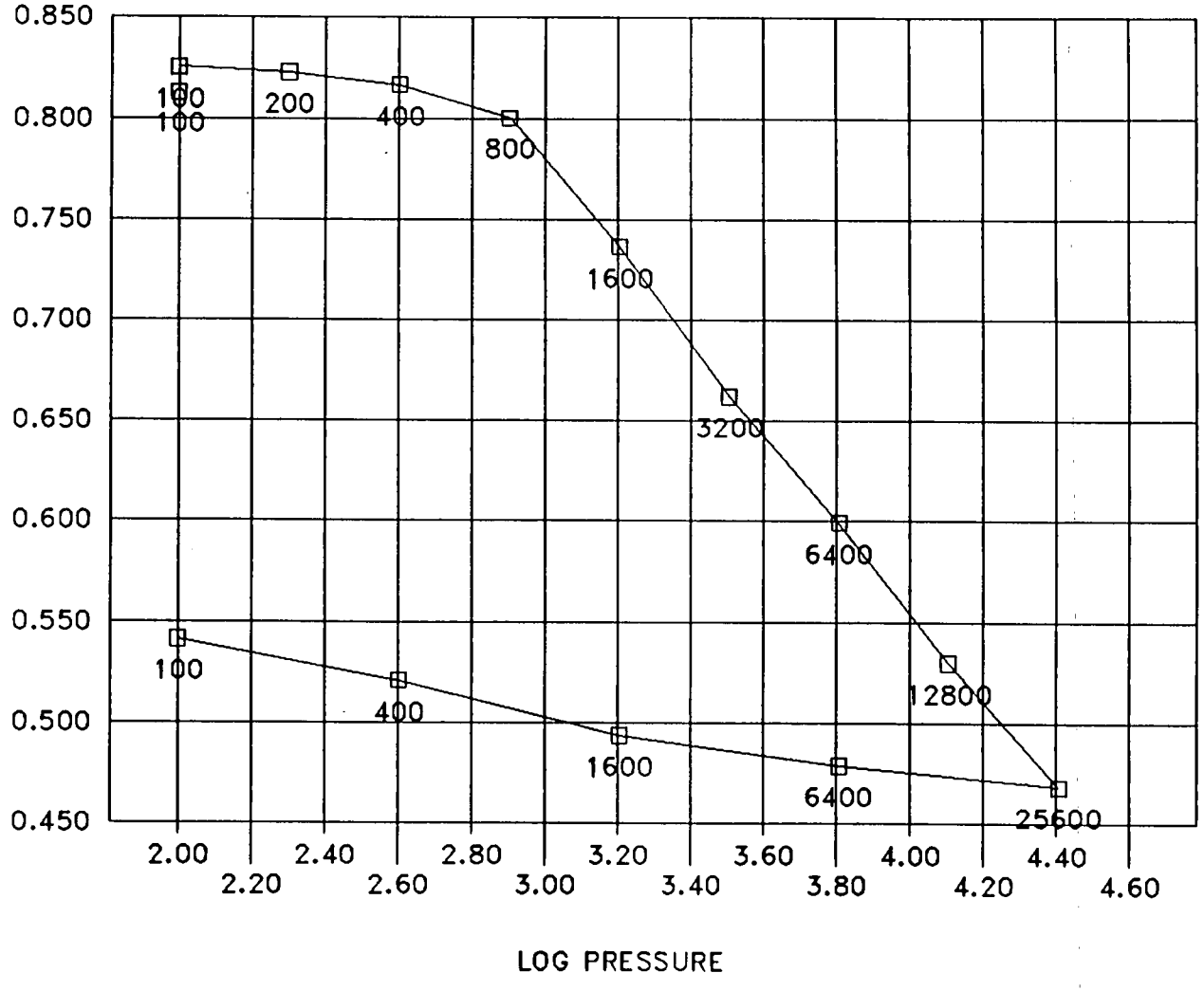
828

000892

4 of 4

CONSOLIDATION TEST DATA

G2-SB-2,3,4,6,404617,0.0-1.5'



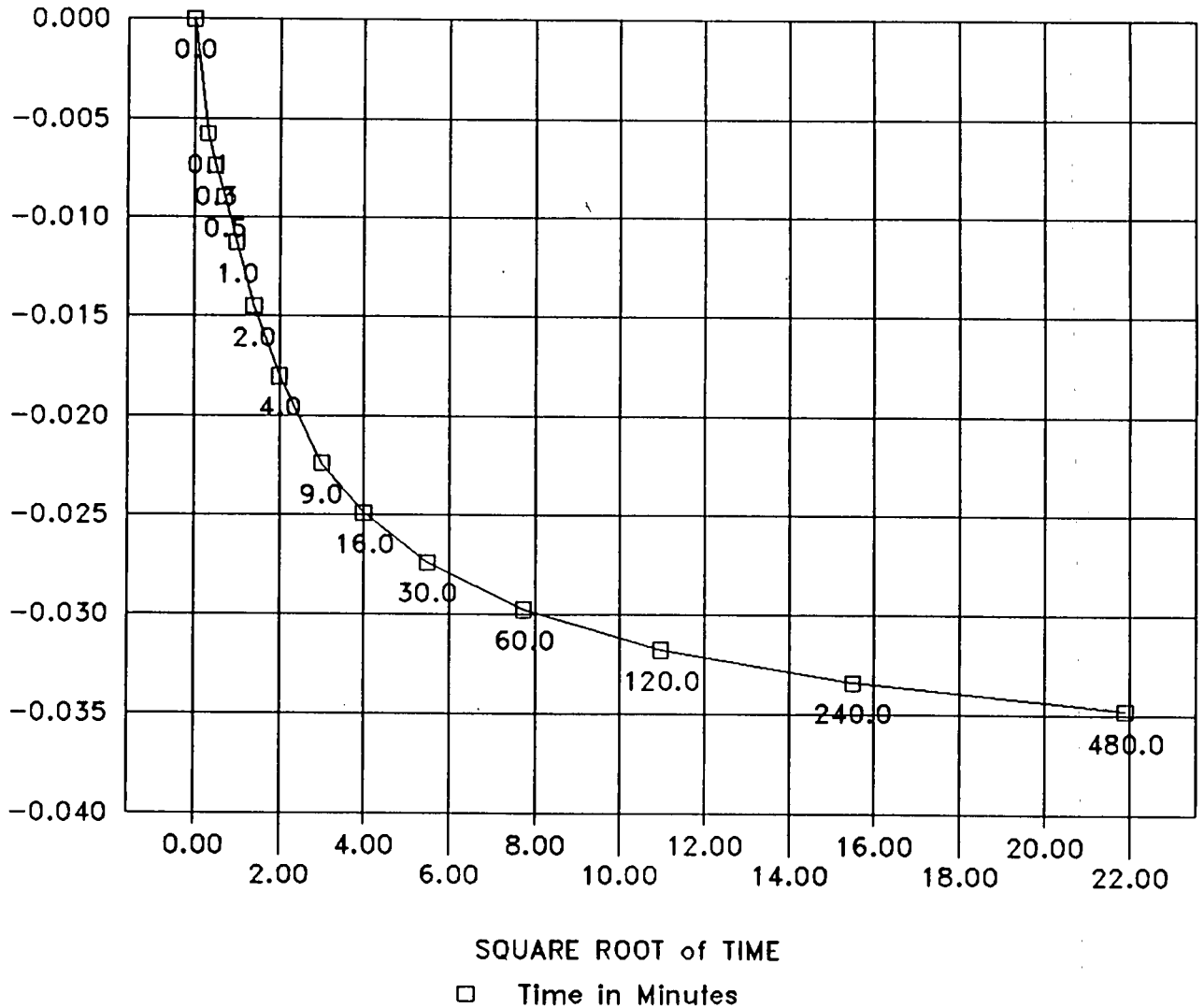
829

000893

424

TIME READING DATA

G2-SB-2,3,4,6,404617,0.0-1.5',1600 psf Load



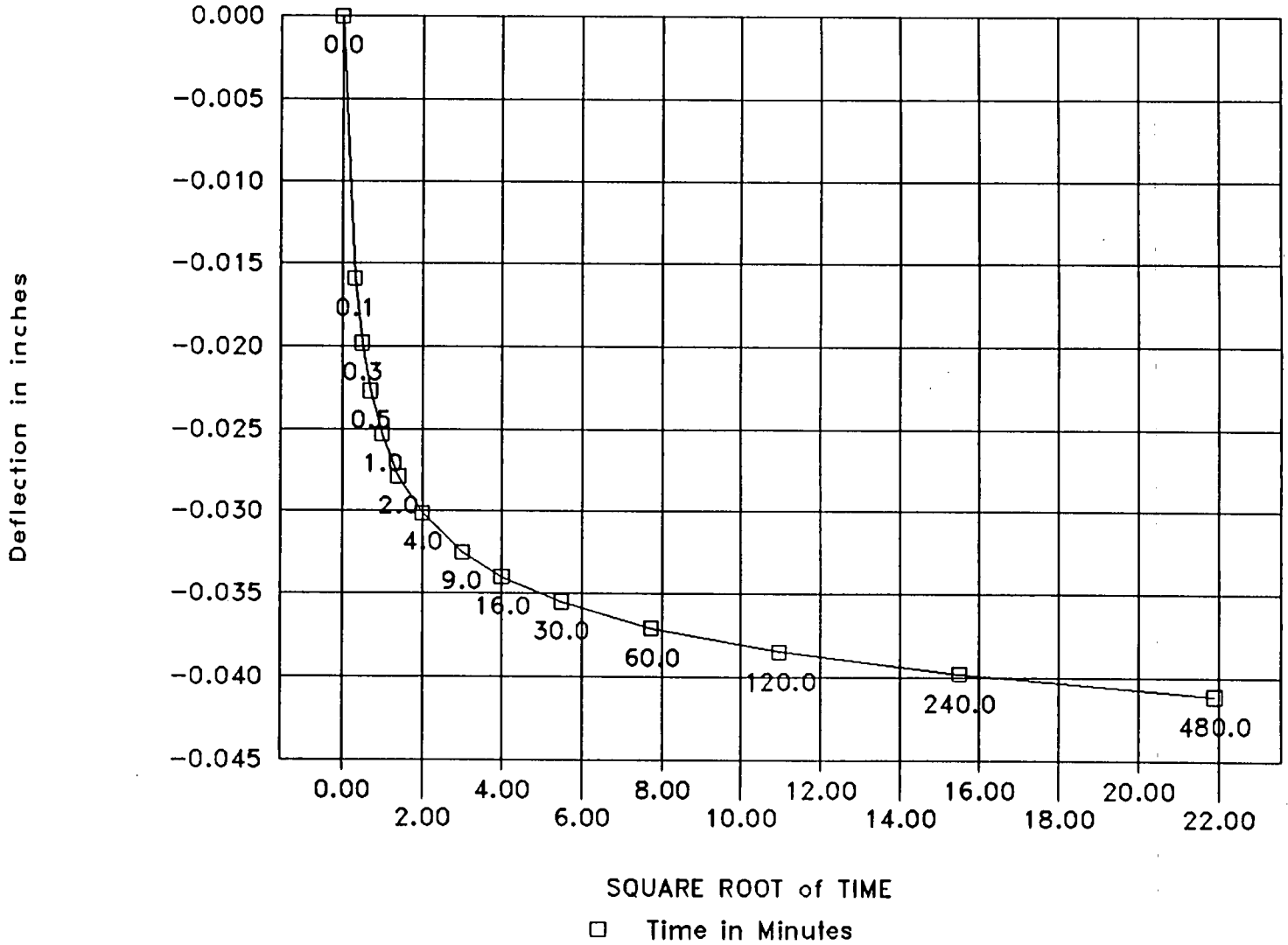
830

000894

474

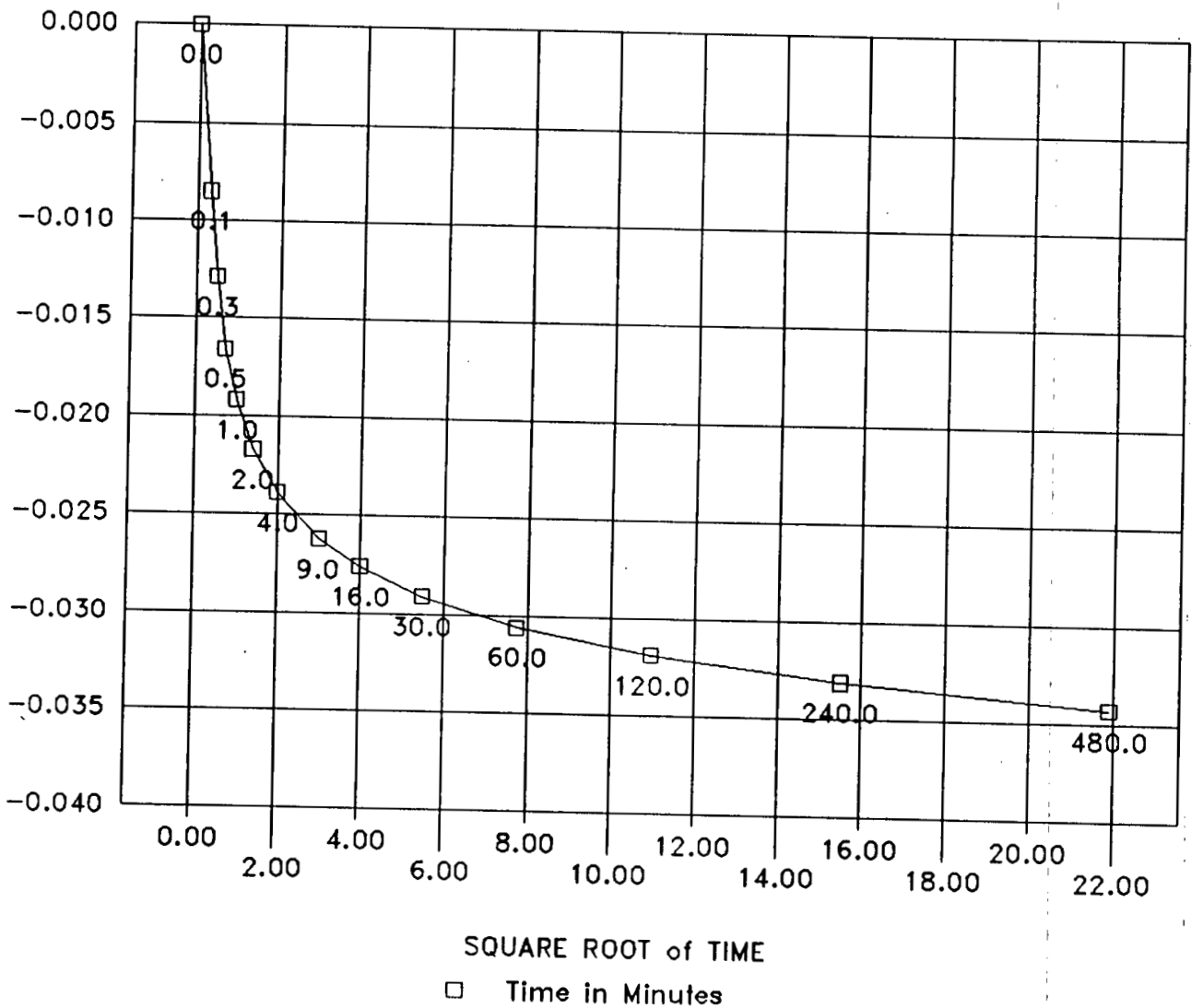
TIME READING DATA

G2-SB-2,3,4,6,404617,0.0-1.5',3200 psf Load



TIME READING DATA

G2-SB-2,3,4,6,404617,0.0-1.5',6400 psf Load



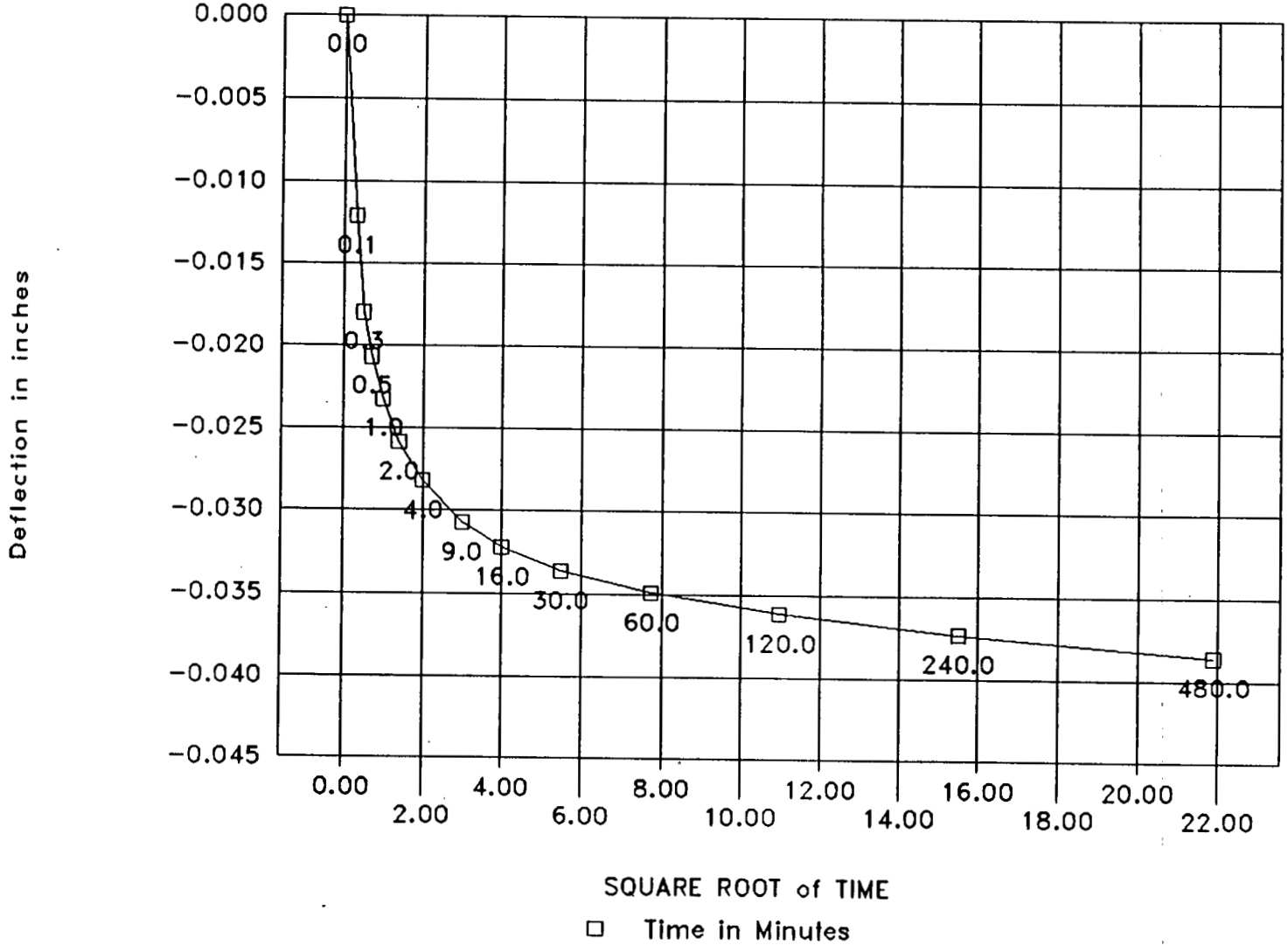
832

000896

474

TIME READING DATA

G2-SB-2,3,4,6,404617,0.0-1.5',12800 psf Load



CONSOLIDATION TEST DATA SHEET

SAC01785 SAC11785
SACC1785 2
SACE1785 2
4

JOB SAIC/PARSONS AD 140, Fernald JOB NO. 2059-13 I
DATE SAMPLED 4-25-95 JC, BN BORING NO. G2-SBr2,3,4,6
TEST STARTED 6-26-95 BY RBW/CAT TEST FINISHED 7-5-95 BY DSR DEPTH 0-1.5' #404617
SOIL TYPE 85% F.C. @ OMC
CONSOLIDOMETER NO. ATT-7 INITIAL SAMPLE HEIGHT 1.00" Do 2.41"

MOISTURE & DENSITY DATA		BEFORE TEST	AFTER TEST
WT. OF RING(S)+ SOIL	gms	172.11	176.74
WT. OF RING(S) ONLY	gms.	45.71	
WT. OF SOIL (NET)			
WET DENSITY IN LBS/CU. FT.*			
WT. OF WET SOIL + DISH NO. A6			
WT. OF DRY SOIL + DISH			
WT. OF LOST MOISTURE			
WT. OF DISH ONLY	g	3.82	
WT. OF DRY SOIL			
MOISTURE AS % OF DRY WT.			
DRY DENSITY IN LBS/CU. FT.			

TEST INSTRUCTIONS

LOAD CYCLE 100 WET 200
400 800 1600TR 3200
6400TR 12800TR 25600
Reb x 2

SPECIAL INSTRUCTION AND NOTES
Dry wt. soil + pan + Ring = 157.16

Cow rock

SpGr = 2.61

DATE	TIME	E-LAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOL-IDATION
6-26-95			100			
	1143	1		.0026		
	1144	2		.0028		
	1152	10		.0030	.0000	
			wet			
	1153	1		-.0032		
	1154	2		-.0040		
	1317			-.0061		
	1420			-.0065		
	1525			-.0068		-.0068
			200			
	1527	1		-.0058		
	1528	2		-.0057		
	1631			-.0050		
6-27-95	0736			-.0050		-.0054
			400			
	0737	1		-.0030		
	0738	2		-.0028		
	0923			-.0014		
	1116			-.0011		-.0021
			800			
	1117	1		.0040		
	1118	2		.0045		
	1223			.0070		
	1327			.0075		
	1510			.0080		
	1638			.0082		

DATE	TIME	E-LAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOL-IDATION
6-28-95	0724		800	.0090		.0070
			1600			
	~~[illegible]~~	.1		.0148		
		.25		.0164		
		.5		.0180		
	0725	1		.0203		
	0726	2		.0235		
	0728	4		.0270		
	0733	9		.0314		
	0740	16		.0339		
	0754	30		.0364		
	0824	60		.0388		
	0924	120		.0408		
	1124	240		.0424		
	1524	480		.0438		
6-29-95	0742			.0453		.0421
			3200			
	0742	.1		.0612		
		.25		.0651		
		.5		.0680		
	0743	1		.0706		
	0744	2		.0732		
	0746	4		.0754		
	0751	9		.0778		
	0758	16		.0793		
	0812	30		.0808		
	0842	60		.0824		
	0942	120		.0838		
	1142	240		.0851		
	1542	480		.0864		

 CONTINUED ON REVERSE SIDE

ADVANCED TERRA TESTING

ATK THIOKOL [illegible]
G2-SB-2,3,4,6
404617
0-1.5'

CONSOLIDATION TEST DATA SHEET (CONTINUED)

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOLIDATION
6-30-95	711		3200 (cont)	.0880		
	0832			.0880		.0833
			6400			
		.1		.0965		
		.25		.1009		
		.5		.1046		
	0833	1		.1072		
	0834	2		.1097		
	0836	4		.1119		
	0841	9		.1142		
	0848	16		.1156		
	0902	30		.1171		
	0932	60		.1182		
	1032	120		.1199		
	1232	240		.1211		
	1632	480		.1223		
	721			.1236		.1178
		.1	12800	.1357		
		.25		.1416		
		.5		.1443		
	722	1		.1469		
	723	2		.1495		
	725	4		.1518		
	730	9		.1543		
	737	16		.1558		
	751	30		.1572		
	821	60		.1585		
	921	120		.1597		
	1121	240		.1609		
	1521	480		.1622		
7-2-95	0701			.1638		
	0922			.1638		.1561
			25600			
	0923	1		.1857		
	0924	2		.1876		
	1057			.1963		
	1202			.1971		
	1303			.1976		
7-3-95	0719			.2000		.1900
			6400			
	0720	1		.1948		
	0721	2		.1946		
	0848			.1938		
	1039			.1937		.1843
			1600			
	1041	1		.1897		
	1042	2		.1889		
	1144			.1855		
	1401			.1847		
	1522			.1844		.1760
			400			
	1523	1		.1807		
	1524	2		.1796		
	1624			.1734		
	1728			.1719		

Con Rbs

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOLIDATION
7-4-95	1046		400	.1684		
	1218			.1683		.1612
			100			
	1219	1		.1670		
	1220	2		.1666		
	1327			.1629		
7-5-95	0738			.1564		
	0847			.1563		.1498

CONSOLIDATION TEST
ASTM D-2435

CLIENT SAIC/Parsons PO 140 JOB NO. 2059-13I

BORING NO.	G2-SB-8,9,10,11	SAMPLED	4-27-95 JC, BN
DEPTH	0.0-1.5'	TEST STARTED	6-22-95 CAL
SAMPLE NO.	404644	TEST FINISHED	7-3-95 WEB
SOIL DESCR.	Fernald	CELL NUMBER	ATT-16
Note: Remolded to 85% MDD			
SAMPLE DIA.(in)	2.410	INITIAL HT.(in)	1.000

MOISTURE/DENSITY DATA	BEFORE TEST	AFTER TEST
Wt. Soil & Ring(s) (g)	173.8	176.1
Wt. Ring(s) (g)	46.0	46.0
Wt. Soil (g)	127.8	130.2
Wet Density PCF	106.8	130.8
Wt. Wet Soil & Pan (g)	131.5	133.8
Wt. Dry Soil & Pan (g)	110.5	110.5
Wt. Lost Moisture (g)	21.0	23.3
Wt. of Pan Only (g)	3.6	3.6
Wt. of Dry Soil (g)	106.9	106.9
Moisture Content %	19.6	21.8
Dry Density PCF	89.3	107.4

LOAD (PSF)	CONSOL. (IN.)
100	0.0000
100	-0.0067
200	-0.0060
400	-0.0019
800	0.0359
1600	0.0676
3200	0.1137
6400	0.1490
12800	0.1898
25600	0.2212
6400	0.2080
1600	0.1953
400	0.1801
100	0.1691

	LOAD (PSF)	LOG p	CONSOL. (IN.)	DEFL. (IN.)	VOID RATIO e
	100	2.000	0.0000	0.0000	0.8674
Saturate	100	2.000	-0.0067	0.0067	0.8799
	200	2.301	-0.0060	0.0060	0.8786
	400	2.602	-0.0019	0.0019	0.8709
	800	2.903	0.0359	-0.0359	0.8003
	1600	3.204	0.0676	-0.0676	0.7411
	3200	3.505	0.1137	-0.1137	0.6550
	6400	3.806	0.1490	-0.1490	0.5891
	12800	4.107	0.1898	-0.1898	0.5129
	25600	4.408	0.2212	-0.2212	0.4543
	6400	3.806	0.2080	-0.2080	0.4789
	1600	3.204	0.1953	-0.1953	0.5027
	400	2.602	0.1801	-0.1801	0.5310
	100	2.000	0.1691	-0.1691	0.5516

% Saturation	60.3
Sp. Gr. (g/cc)	2.670
Init. Ht. Solids (cm)	1.360
Init. Ht. Voids (cm)	1.180
Init. Void Ratio	0.8674

Data entry by: NAA Date: 7-5-95
Data checked by: GJ Date: 8-12-95
FileName:SAC0644

ADVANCED TERRA TESTING, INC.

TIME READING DATA

G2-SB-8,9,10,11
0.0-1.5'

1600 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.1461	0.0000
0.1	0.32	0.1581	-0.0120
0.3	0.50	0.1610	-0.0149
0.5	0.71	0.1646	-0.0185
1.0	1.00	0.1672	-0.0211
2.0	1.41	0.1696	-0.0235
4.0	2.00	0.1714	-0.0253
9.0	3.00	0.1735	-0.0274
16.0	4.00	0.1746	-0.0285
30.0	5.48	0.1755	-0.0294
60.0	7.75	0.1763	-0.0302
120.0	10.95	0.1772	-0.0311
240.0	15.49	0.1780	-0.0319
480.0	21.91	0.1786	-0.0325

3200 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.1791	0.0000
0.1	0.32	0.2056	-0.0265
0.3	0.50	0.2098	-0.0307
0.5	0.71	0.2120	-0.0329
1.0	1.00	0.2146	-0.0355
2.0	1.41	0.2170	-0.0379
4.0	2.00	0.2192	-0.0401
9.0	3.00	0.2212	-0.0421
16.0	4.00	0.2222	-0.0431
30.0	5.48	0.2233	-0.0442
60.0	7.75	0.2242	-0.0451
120.0	10.95	0.2251	-0.0460
240.0	15.49	0.2259	-0.0468
480.0	21.91	0.2265	-0.0474

6400 psf Load

Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.2271	0.0000
0.1	0.32	0.2451	-0.0180
0.3	0.50	0.2470	-0.0199
0.5	0.71	0.2487	-0.0216
1.0	1.00	0.2506	-0.0235
2.0	1.41	0.2528	-0.0257
4.0	2.00	0.2553	-0.0282
9.0	3.00	0.2580	-0.0309
16.0	4.00	0.2597	-0.0326
30.0	5.48	0.2610	-0.0339
60.0	7.75	0.2620	-0.0349
120.0	10.95	0.2627	-0.0356
240.0	15.49	0.2634	-0.0363
480.0	21.91	0.2640	-0.0369

12800 psf Load

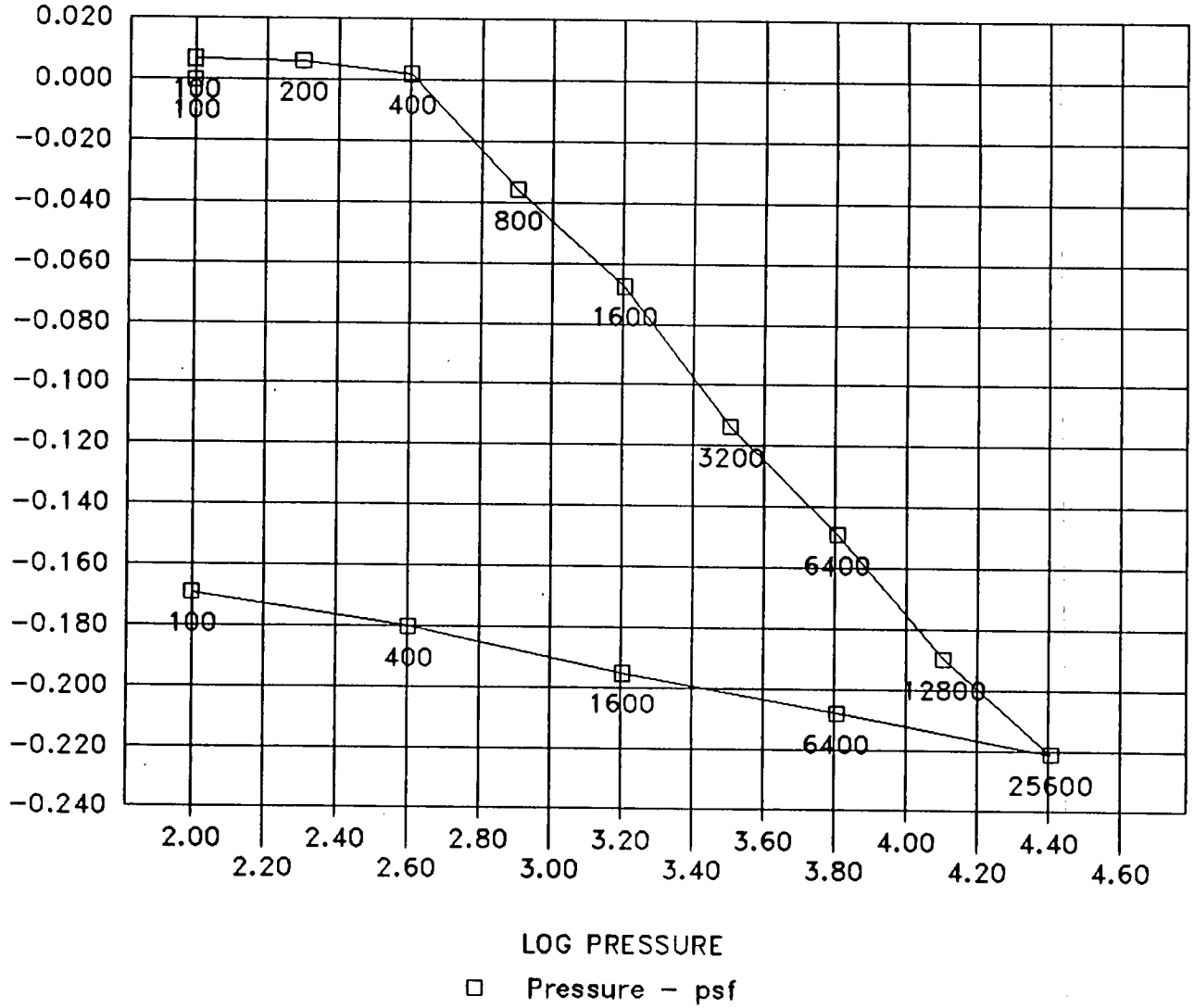
Elapsed Time (min)	SQRT Time (min)	Dial Reading (in)	Defl. (in)
0.0	0.00	0.2645	0.0000
0.1	0.32	0.2819	-0.0174
0.3	0.50	0.2837	-0.0192
0.5	0.71	0.2852	-0.0207
1.0	1.00	0.2870	-0.0225
2.0	1.41	0.2894	-0.0249
4.0	2.00	0.2925	-0.0280
9.0	3.00	0.2968	-0.0323
16.0	4.00	0.2999	-0.0354
30.0	5.48	0.3026	-0.0381
60.0	7.75	0.3048	-0.0403
120.0	10.95	0.3060	-0.0415
240.0	15.49	0.3069	-0.0424
480.0	21.91	0.3075	-0.0430

Data entry by: NAA Date: 7-5-95
Data checked by: CW Date: 7-5-95
FileName: SAC0644

ADVANCED TERRA TESTING, INC.

CONSOLIDATION TEST DATA

G2-SB-8,9,10,11,404644,0.0-1.5'



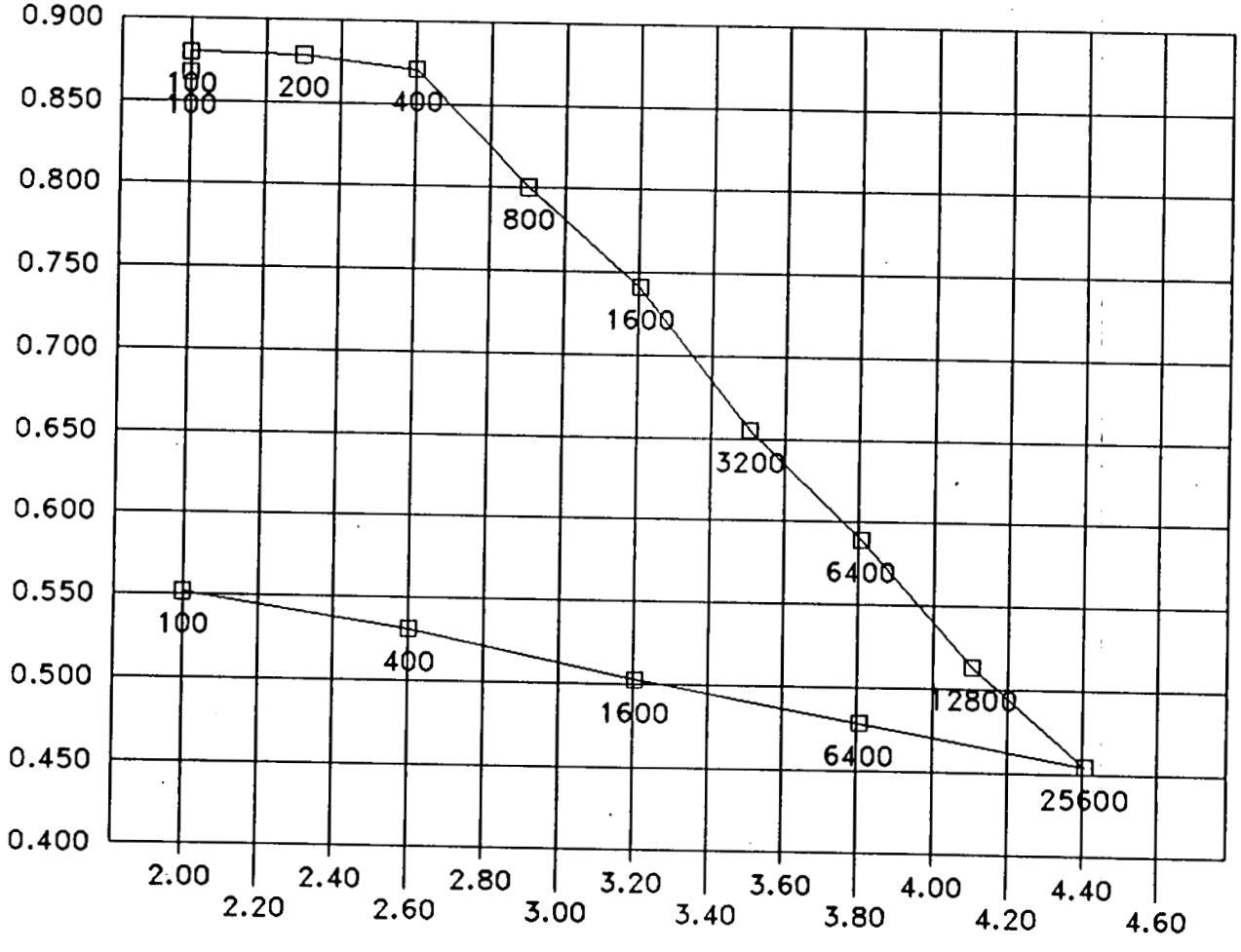
838

000902

4274

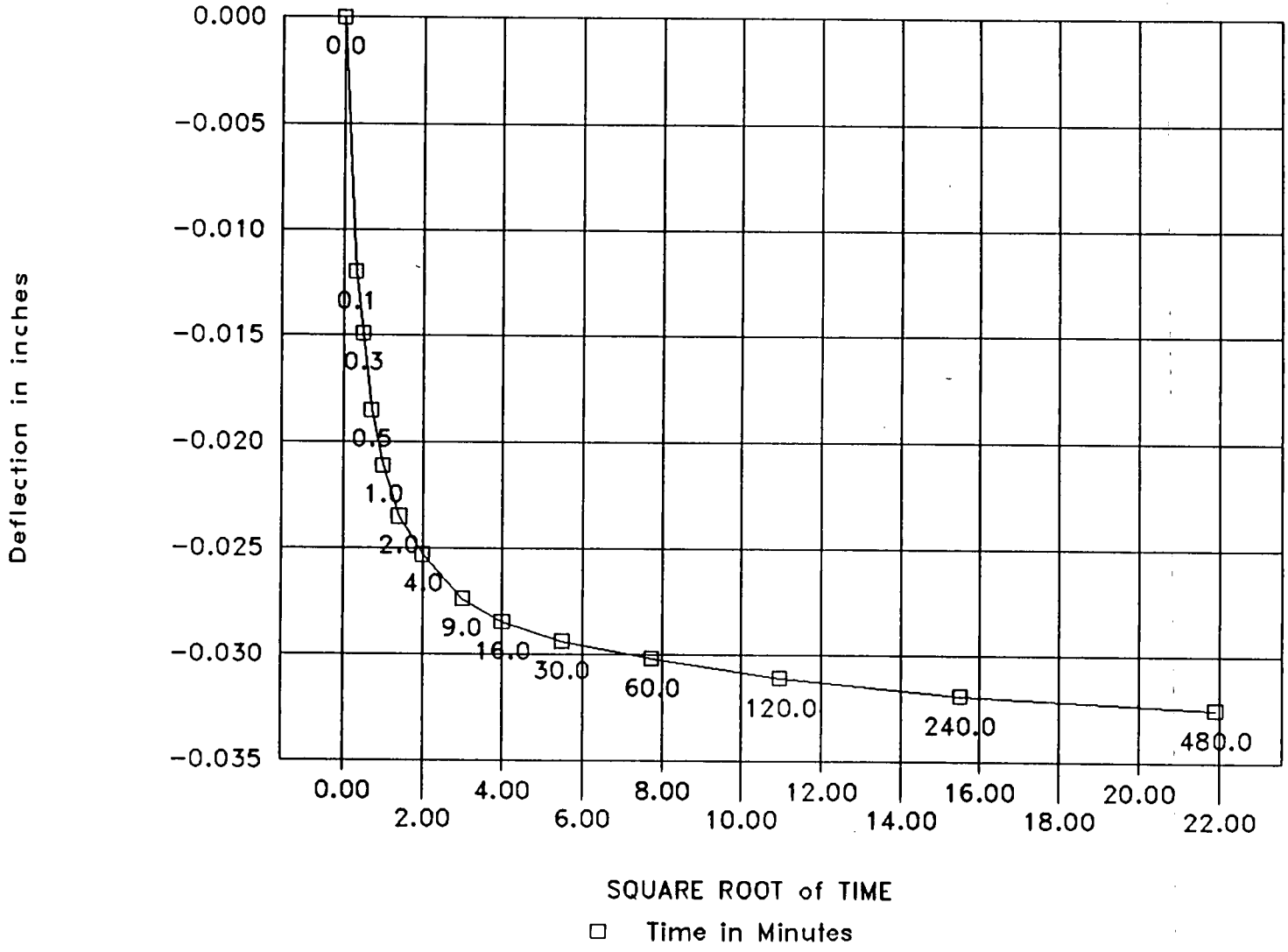
CONSOLIDATION TEST DATA

G2-SB-8,9,10,11,404644,0.0-1.5'



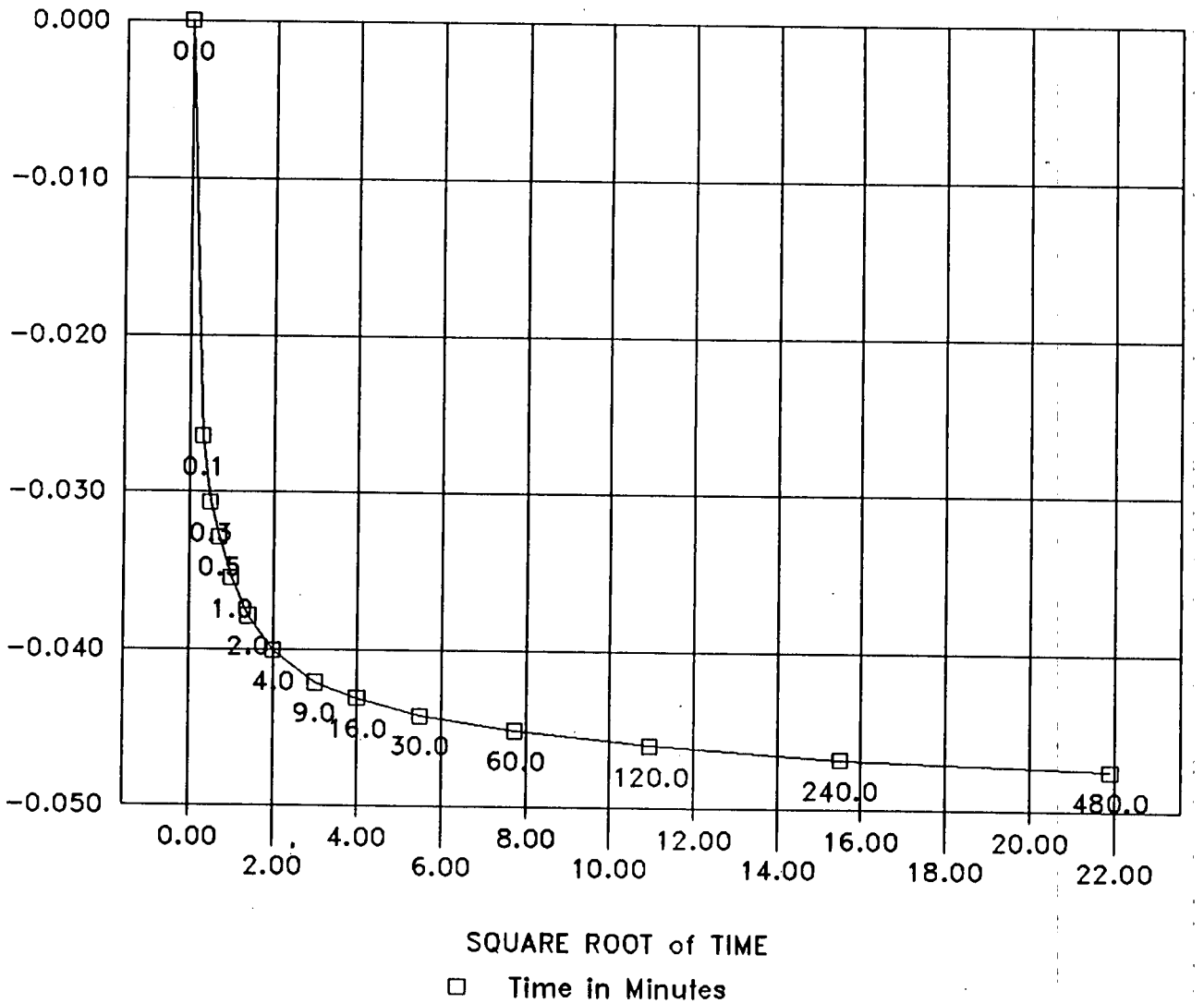
TIME READING DATA

G2-SB-8,9,10,11,404644,0.0-1.5',1600 psf Load



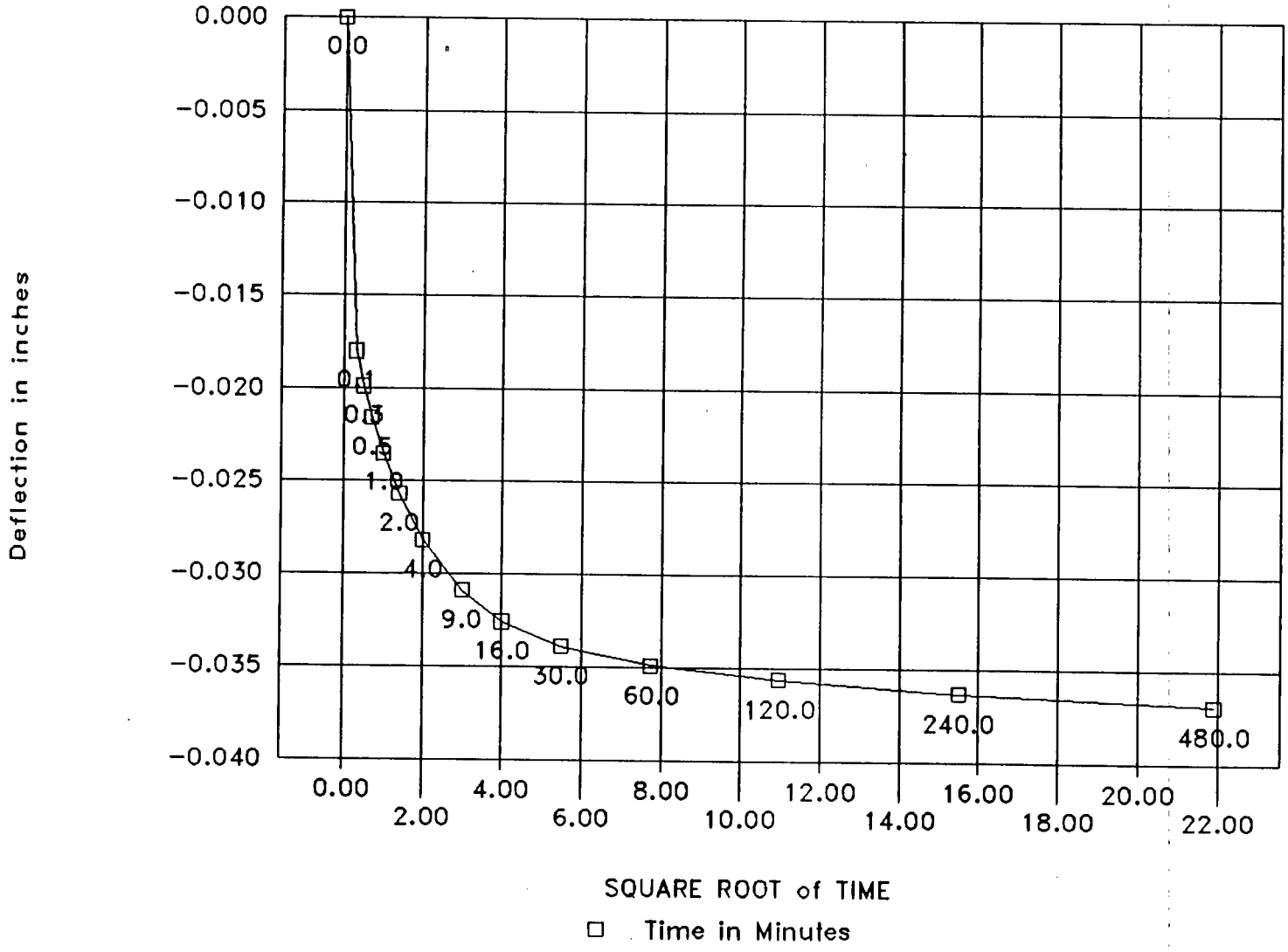
TIME READING DATA

G2-SB-8,9,10,11,404644,0.0-1.5',3200 psf Load



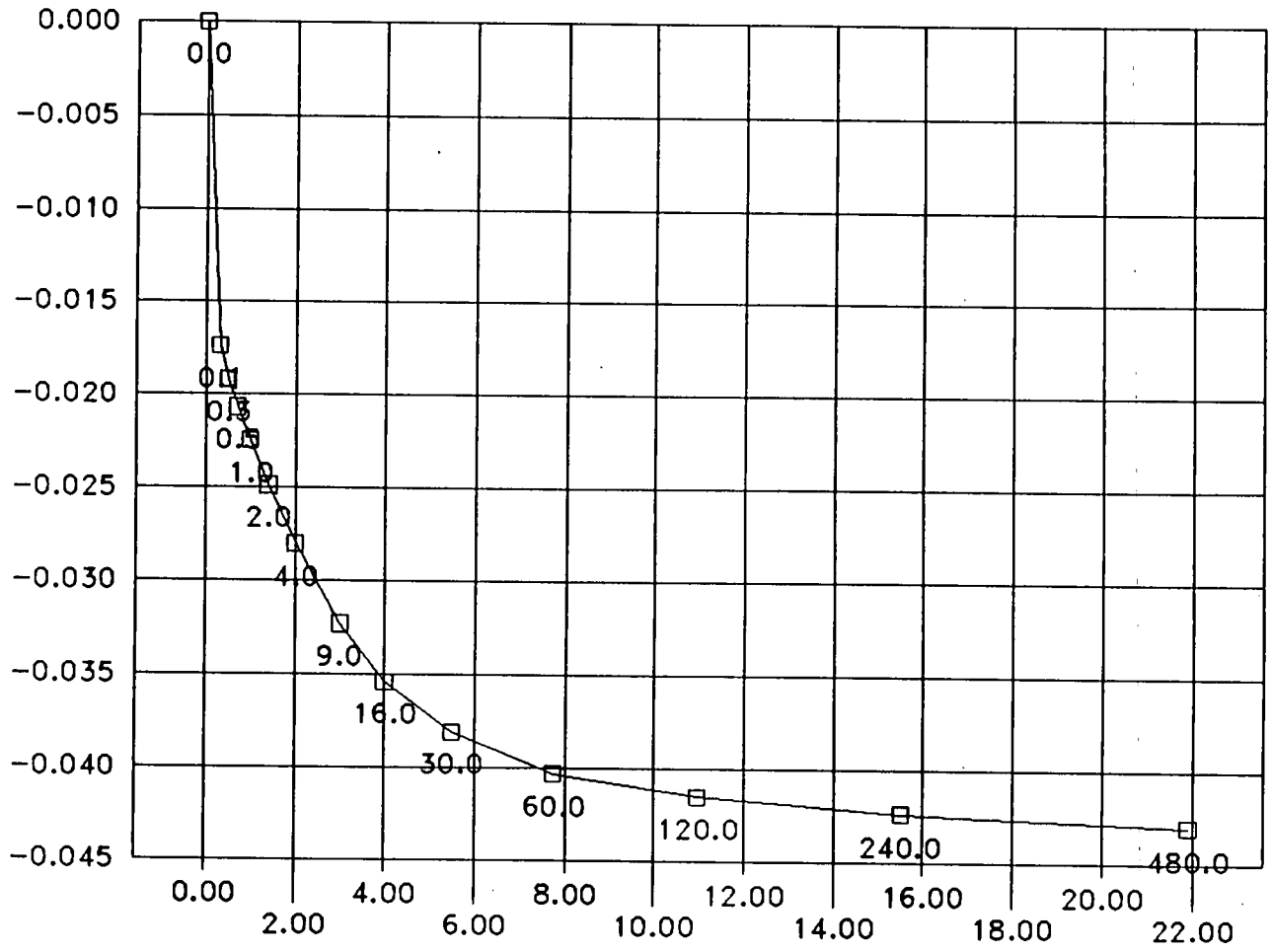
TIME READING DATA

G2-SB-8,9,10,11,404644,0.0-1.5',6400 psf Load



TIME READING DATA

G2-SB-8,9,10,11,404644,0.0-1.5',12800 psf Load



□ Time in Minutes

843

000907

424

CONSOLIDATION TEST DATA SHEET

SACØ644 SAC1644
SACC644 2
SACE644 3
4

JOB SAIC/PARSONS PO 140 JOB NO. 2059-13 I
DATE SAMPLED 4-27-95 JC, BN BORING NO. G2-SB-8,9,10,11
TEST STARTED _____ BY _____ TEST FINISHED 7-3-95 BY WEB DEPTH 0-1.5' # 404644
SOIL TYPE CON & BS2
CONSOLIDOMETER NO. ATT-16 INITIAL SAMPLE HEIGHT 1.00" Do 2.41"

MOISTURE & DENSITY DATA		BEFORE TEST	AFTER TEST
WT. OF RING(S)+ SOIL	g.	173.80	176.14
WT. OF RING(S) ONLY	g.	45.96	45.96
WT. OF SOIL (NET)			
WET DENSITY IN LBS/CU. FT.*			
WT. OF WET SOIL + DISH NO. 34B			
WT. OF DRY SOIL + DISH			
WT. OF LOST MOISTURE			
WT. OF DISH ONLY	g.	3.64	
WT. OF DRY SOIL			
MOISTURE AS % OF DRY WT.			
DRY DENSITY IN LBS/CU. FT.			

TEST INSTRUCTIONS

LOAD CYCLE 100 WET 200
400 800 1600TR 3200T
6400TR 12800TR 25600
REBOUND x2

SPECIAL INSTRUCTION AND NOTES
Dry wt. Soil + Pan + Ring 156.49

SpGr = 2.67

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOLIDATION
6-23-95	851	1	100	.1066		
	852	2		.1068		
	900	10		.1072	.0000	.0000
	901	1	WET	.1050		
	902	2		.1042		
	955			.1018		
	1106			.1008		
	1157			.1005	-.0067	-.0067
	1158	1	200	.1013		
	1159	2		.1013		
	1318			.1019		
	1428			.1019	-.0053	-.0060
	1429	1	400	.1047		
	1430	2		.1050		
	1539			.1062		
6-24-95	0750			.1068		
	1403			.1071	-.0001	-.0019
			800			
	1410	1		.1150		
	1411	2		.1197		
	1418			.1291		
	1455			.1338		
6-25-95	0733			.1357		
6-26-95	0720			.1461	.0389	.0359

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOLIDATION
	0720	.1	1600	.1581		
		.25		.1610		
		.5		.1646		
	0721	1		.1672		
	0722	2		.1696		
	0724	4		.1714		
	0729	9		.1735		
	0736	16		.1746		
	0750	30		.1755		
	0820	60		.1763		
	0920	120		.1772		
	1120	240		.1780		
	1520	480		.1786		
6-27-95	0710			.1791	.0719	.0676
			3200			
	0710	.1		.2056		
		.25		.2098		
		.5	WB	.2120		
	0711	1		.2146		
	0712	2		.2170		
	.0714	4		.2192		
	.0719	9		.2212		
	.0726	16		.2222		
	0740	30		.2233		
	0810	60		.2242		
	0910	120		.2251		
	1110	240		.2259		
	1510	480		.2265		
6-28-95	0721			.2271	.1199	.1137

ADVANCED TERRA TESTING

CONTINUED ON REVERSE SIDE

SAIC/PARSONS TOKYO 474

CONSOLIDATION TEST DATA SHEET (CONTINUED) G2-SB-8,9,10,11 404644 0-1.5 PAGE 2 OF 2

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOLIDATION
6-28-95			6400			
	0721	.1		.2451		
		.25		.2470		
		.5		.2487		
	0722	1		.2506		
	0723	2		.2528		
	0725	4		.2553		
	0730	9		.2580		
	0737	16		.2597		
	0751	30		.2610		
	0821	60		.2620		
	0921	120		.2627		
	1121	240		.2634		
	1521	480		.2640		
6-29-95	0727			.2645	.1573	.1490
			12800			
	0727	.1		.2819		
		.25		.2837		
		.5		.2852		
	0728	1		.2870		
	0729	2		.2894		
	0731	4		.2925		
	0736	9		.2968		
	0743	16		.2999		
	0757	30		.3026		
	0827	60		.3048		
	0927	120		.3060		
	1127	240		.3069		
	1527	480		.3075		
6-30-95	706			.3080	.2008	.1898
	707	1	25600	.3213		
	708	2		.3235		
	0826			.3404		
	0946			.3415		
	1114			.3421		
	1227			.3424		
	1345			.3426	.2354	.2212
			6400 REB			
	1347	1		.3366		
	1348	2		.3362		
				.3335		
7-1-95	718			.3329		
	818			.3329	.2257	.2080
	819	1	1600 REB	.3280		
	820	2		.3272		
	920			.3209		
	1116			.3193		
	1416			.3186		
	1637			.3183	.2111	.1953
			400			
	1639	1		.3161		
	1640	2		.3157		
	1717			.3107		
	1811			.3078		

DATE	TIME	ELAPSED TIME IN MINS.	LOAD (PSF)	DIAL READING (.0001 IN.)	CONSOL. UNDER THIS LOAD	TOTAL CONSOLIDATION
7-2-95	0903		400	.3020		
	0936			.3019	.1947	.1801
			100			
	0937	1		.3011		
	0938	2		.3009		
	1056			.2976		
	1205			.2961		
	1305			.2952		
7-3-95	0716			.2902		
	0818			.2902	.1830	.1691