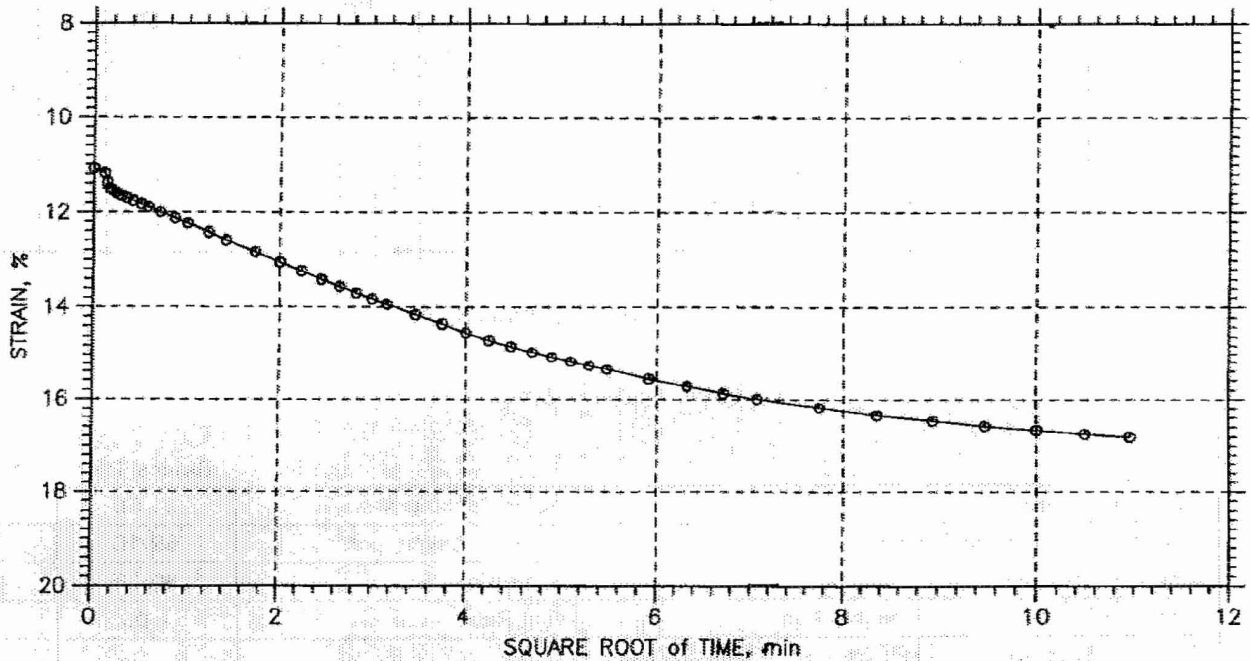
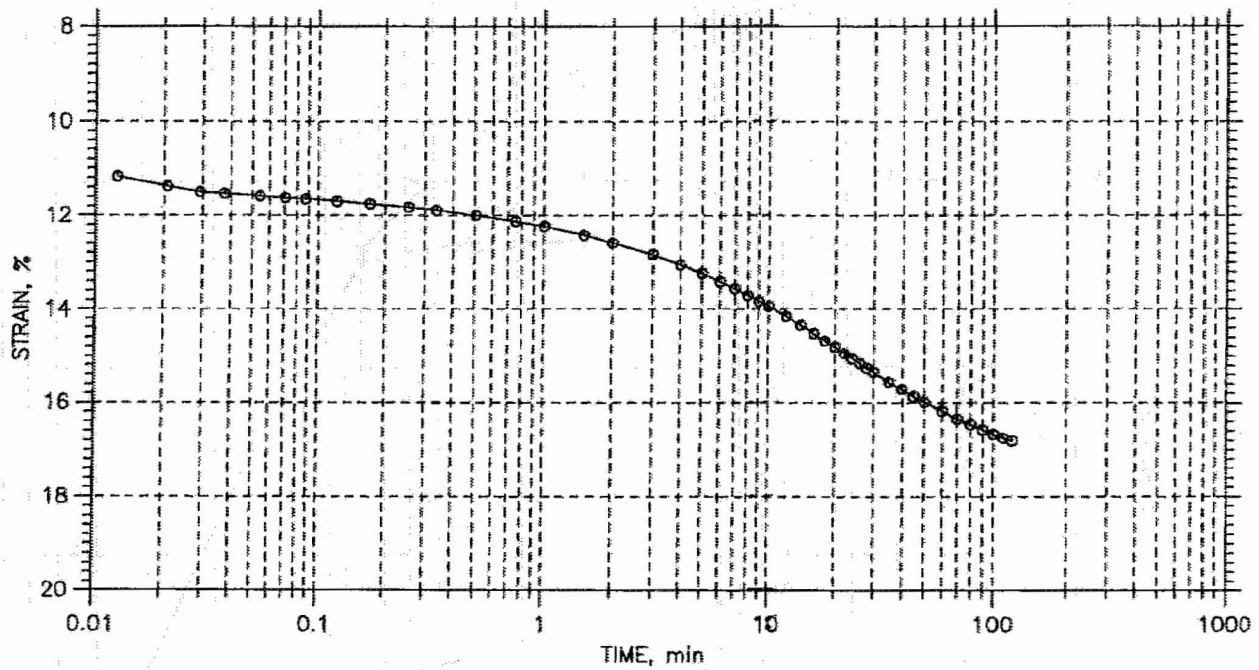


# CONSOLIDATION TEST DATA

## TIME CURVES

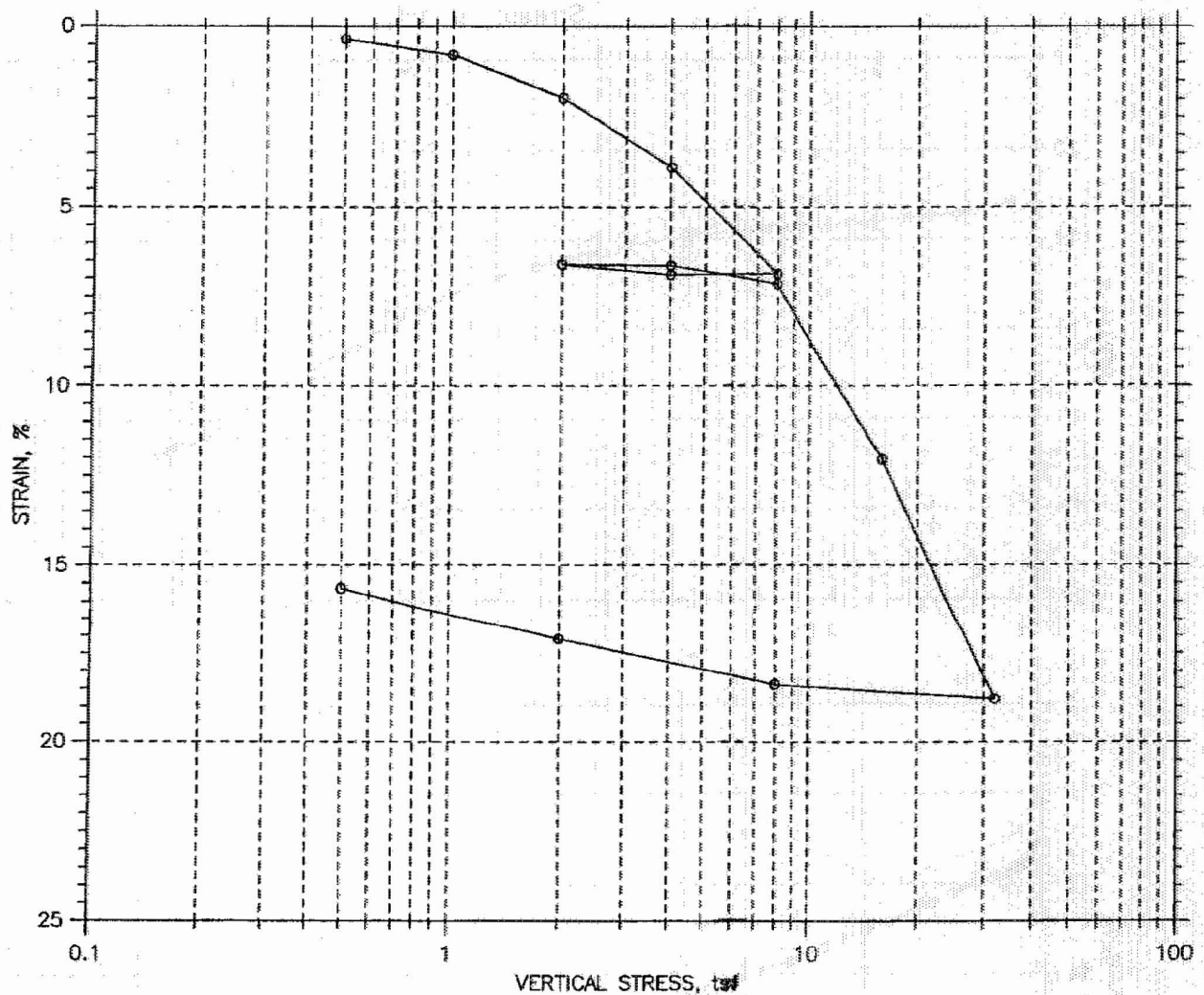
Constant Load Step: 10 of 14

Stress: 16. tsf



|                                                                                           |                                                                                                         |                          |                       |
|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|--------------------------|-----------------------|
| <b>GeoTesting</b><br><b>express</b><br><small>a subsidiary of Geocomp Corporation</small> | Project: Calvert Cliffs Nuclear PP                                                                      | Location: Calvert County | Project No.: GTX-6880 |
|                                                                                           | Boring No.: B-334                                                                                       | Tested By: md            | Checked By: jdt       |
|                                                                                           | Sample No.: S-8                                                                                         | Test Date: 09/11/2006    | Depth: 23-25          |
|                                                                                           | Test No.: C-9                                                                                           | Sample Type: tube        | Elevation: ---        |
|                                                                                           | Description: Moist, dark greenish gray clay with sand (CH), 79% passing #200 sieve, inundated @ 0.5 tsf |                          |                       |
|                                                                                           | Remarks: System T - Compression Ratio: 0.22, Recompression Ratio: 0.02                                  |                          |                       |

# CONSOLIDATION TEST DATA SUMMARY REPORT



|                                    |        |              |          | Before Test          | After Test |        |
|------------------------------------|--------|--------------|----------|----------------------|------------|--------|
| Overburden Pressure: ---           |        |              |          | Water Content, %     | 31.56      | 27.21  |
| Preconsolidation Pressure: 5.4 tsf |        |              |          | Dry Unit Weight, pcf | 82.16      | 97.38  |
| Compression Index: ---             |        |              |          | Saturation, %        | 80.76      | 100.00 |
| Diameter: 2.5 in                   |        | Height: 1 in |          | Void Ratio           | 1.06       | 0.74   |
| LL: 47                             | PL: 13 | PI: 34       | GS: 2.71 |                      |            |        |

|                                                                                     |                                                                                               |                              |                       |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|------------------------------|-----------------------|
| <b>GeoTesting<br/>express</b><br><small>a subsidiary of Geocomp Corporation</small> | Project: Calvert Cliffs Nuclear PP                                                            | Location: Calvert County, MD | Project No.: GTX-6880 |
|                                                                                     | Boring No.: B-334                                                                             | Tested By: md                | Checked By: jdt       |
|                                                                                     | Sample No.: S-10                                                                              | Test Date: 09/11/2006        | Depth: 33-34.7        |
|                                                                                     | Test No.: C-10                                                                                | Sample Type: tube            | Elevation: ---        |
|                                                                                     | Description: Moist, dark greenish gray clay (CL), 95% passing #200 sieve, inundated @ 0.5 tsf |                              |                       |
|                                                                                     | Remarks: System S - Compression Ratio: 0.20, Recompression Ratio: 0.02                        |                              |                       |



# CONSOLIDATION TEST DATA

Project: Calvert Cliffs Nuclear PP  
Boring No.: B-334  
Sample No.: S-10  
Test No.: C-10

Location: Calvert County, MD  
Tested By: md  
Test Date: 09/11/2006  
Sample Type: tube

Project No.: GTX-6880  
Checked By: jdt  
Depth: 33-34.7  
Elevation: ---

Soil Description: Moist, dark greenish gray clay (CL), 95% passing #200 sieve, inundated @ 0.5 tsf  
Remarks: System S - Compression Ratio: 0.20, Recompression Ratio: 0.02

Measured Specific Gravity: 2.71  
Initial Void Ratio: 1.06  
Final Void Ratio: 0.74

Liquid Limit: 47  
Plastic Limit: 13  
Plasticity Index: 34

Initial Height: 1.00 in  
Specimen Diameter: 2.50 in

| Container ID                 | Before Consolidation |               | After Consolidation |          |
|------------------------------|----------------------|---------------|---------------------|----------|
|                              | Trimming             | Specimen+Ring | Specimen+Ring       | Trimming |
|                              | Island               | RING          |                     | 1492     |
| Wt. Container + Wet Soil, gm | 291.7                | 355.84        | 351.23              | 143.68   |
| Wt. Container + Dry Soil, gm | 222.11               | 322.42        | 322.42              | 114.78   |
| Wt. Container, gm            | 8.98                 | 216.56        | 216.56              | 8.57     |
| Wt. Dry Soil, gm             | 213.13               | 105.86        | 105.86              | 106.21   |
| Water Content, %             | 32.65                | 31.56         | 27.21               | 27.21    |
| Void Ratio                   | ---                  | 1.06          | 0.74                | ---      |
| Degree of Saturation, %      | ---                  | 80.76         | 100.00              | ---      |
| Dry Unit Weight, pcf         | ---                  | 82.159        | 97.375              | ---      |

# CONSOLIDATION TEST DATA

Project: Calvert Cliffs Nuclear PP  
Boring No.: B-334  
Sample No.: S-10  
Test No.: C-10

Location: Calvert County, MD  
Tested By: md  
Test Date: 09/11/2006  
Sample Type: tube

Project No.: GTX-6880  
Checked By: jdt  
Depth: 33-34.7  
Elevation: ---

Soil Description: Moist, dark greenish gray clay (CL), 95% passing #200 sieve, inundated @ 0.5 tsf  
Remarks: System S - Compression Ratio: 0.20, Recompression Ratio: 0.02

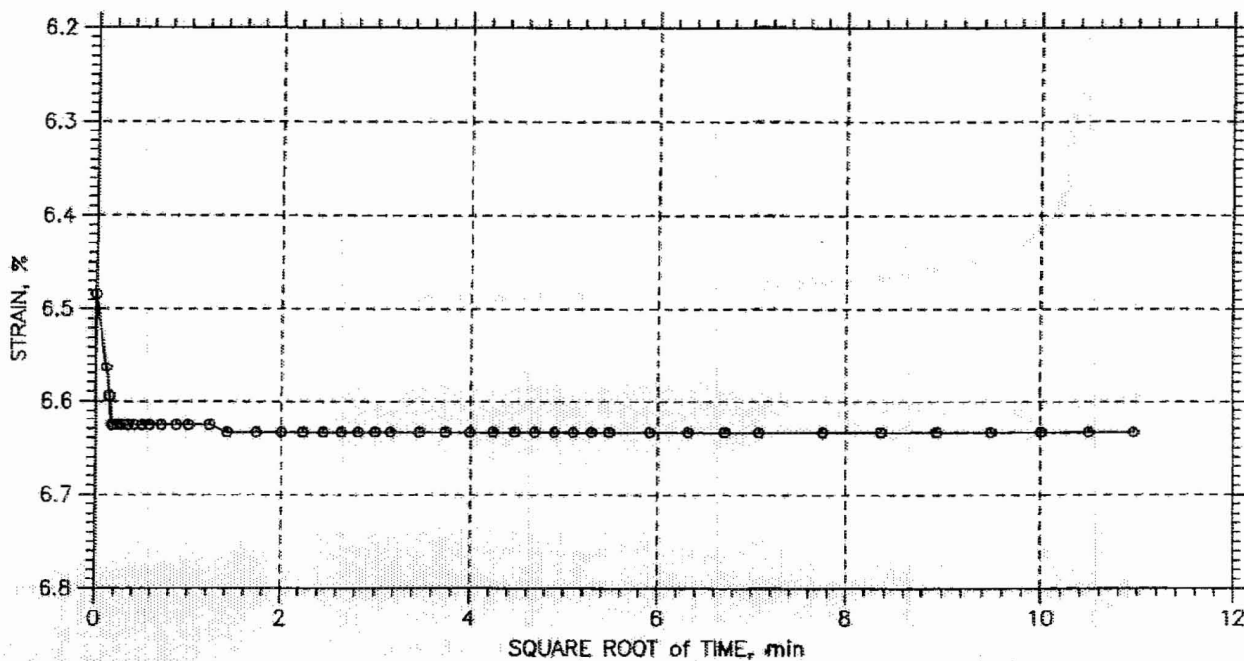
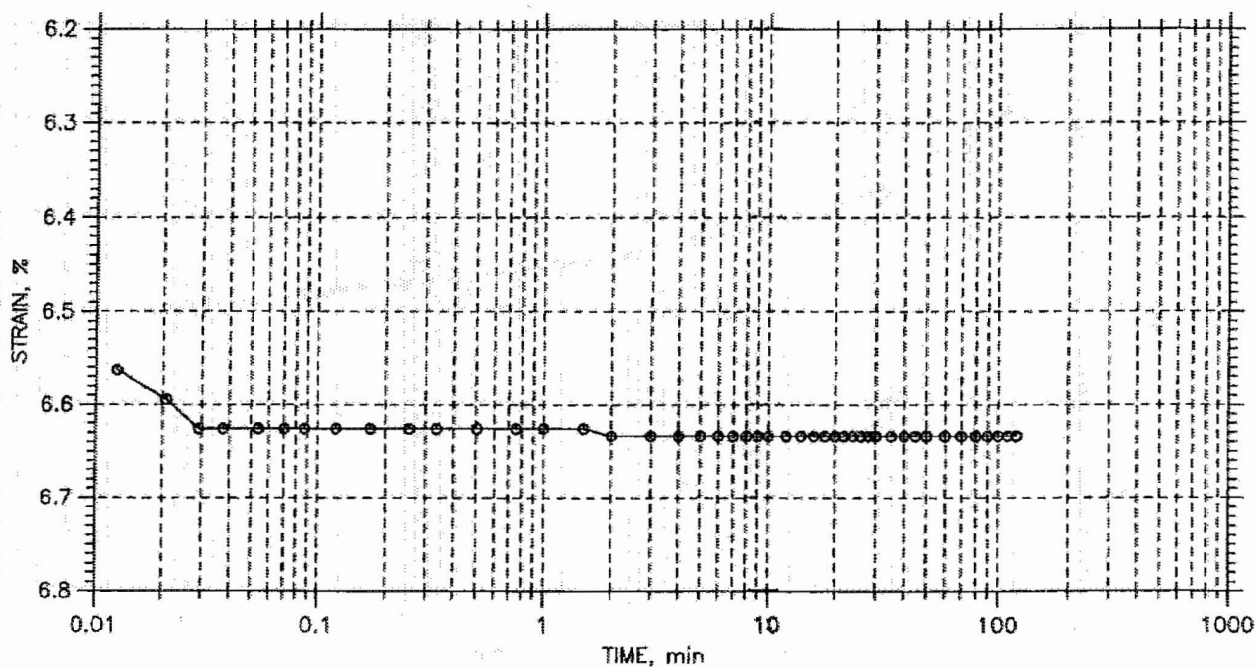
|    | Applied<br>Stress<br>tsf | Final<br>Displacement<br>in | Void<br>Ratio | Strain<br>at End<br>% | T50 Fitting   |            | Coefficient of Consolidation   |                             |                              |
|----|--------------------------|-----------------------------|---------------|-----------------------|---------------|------------|--------------------------------|-----------------------------|------------------------------|
|    |                          |                             |               |                       | Sq.Rt.<br>min | Log<br>min | Sq.Rt.<br>in <sup>2</sup> /sec | Log<br>in <sup>2</sup> /sec | Ave.<br>in <sup>2</sup> /sec |
| 1  | 0.5                      | 0.00346                     | 1.052         | 0.35                  | 0.0           | 0.0        | 1.73e-002                      | 0.00e+000                   | 1.73e-002                    |
| 2  | 1                        | 0.007832                    | 1.043         | 0.78                  | 0.1           | 0.0        | 1.28e-002                      | 1.71e-002                   | 1.46e-002                    |
| 3  | 2                        | 0.01972                     | 1.019         | 1.97                  | 0.1           | 0.0        | 1.47e-002                      | 1.60e-002                   | 1.53e-002                    |
| 4  | 4                        | 0.0389                      | 0.979         | 3.89                  | 0.1           | 0.1        | 1.24e-002                      | 1.55e-002                   | 1.38e-002                    |
| 5  | 8                        | 0.06862                     | 0.918         | 6.86                  | 0.1           | 0.0        | 1.30e-002                      | 1.60e-002                   | 1.43e-002                    |
| 6  | 4                        | 0.06902                     | 0.917         | 6.90                  | 0.0           | 0.0        | 4.85e-002                      | 0.00e+000                   | 4.85e-002                    |
| 7  | 2                        | 0.06598                     | 0.923         | 6.60                  | 0.0           | 0.0        | 3.45e-002                      | 0.00e+000                   | 3.45e-002                    |
| 8  | 4                        | 0.06634                     | 0.923         | 6.63                  | 0.0           | 0.0        | 4.82e-002                      | 0.00e+000                   | 4.82e-002                    |
| 9  | 8                        | 0.07153                     | 0.912         | 7.15                  | 0.1           | 0.0        | 8.07e-003                      | 0.00e+000                   | 8.07e-003                    |
| 10 | 16                       | 0.1204                      | 0.811         | 12.04                 | 0.1           | 0.1        | 7.31e-003                      | 1.23e-002                   | 9.16e-003                    |
| 11 | 32                       | 0.1878                      | 0.672         | 18.78                 | 0.6           | 0.2        | 9.69e-004                      | 2.50e-003                   | 1.40e-003                    |
| 12 | 8                        | 0.1837                      | 0.681         | 18.37                 | 0.0           | 0.0        | 1.67e-002                      | 1.92e-002                   | 1.79e-002                    |
| 13 | 2                        | 0.1709                      | 0.707         | 17.09                 | 0.4           | 0.0        | 1.31e-003                      | 0.00e+000                   | 1.31e-003                    |
| 14 | 0.5                      | 0.1563                      | 0.737         | 15.63                 | 2.7           | 0.0        | 2.13e-004                      | 0.00e+000                   | 2.13e-004                    |

# CONSOLIDATION TEST DATA

## TIME CURVES

Constant Load Step: 8 of 14

Stress: 4. tsf



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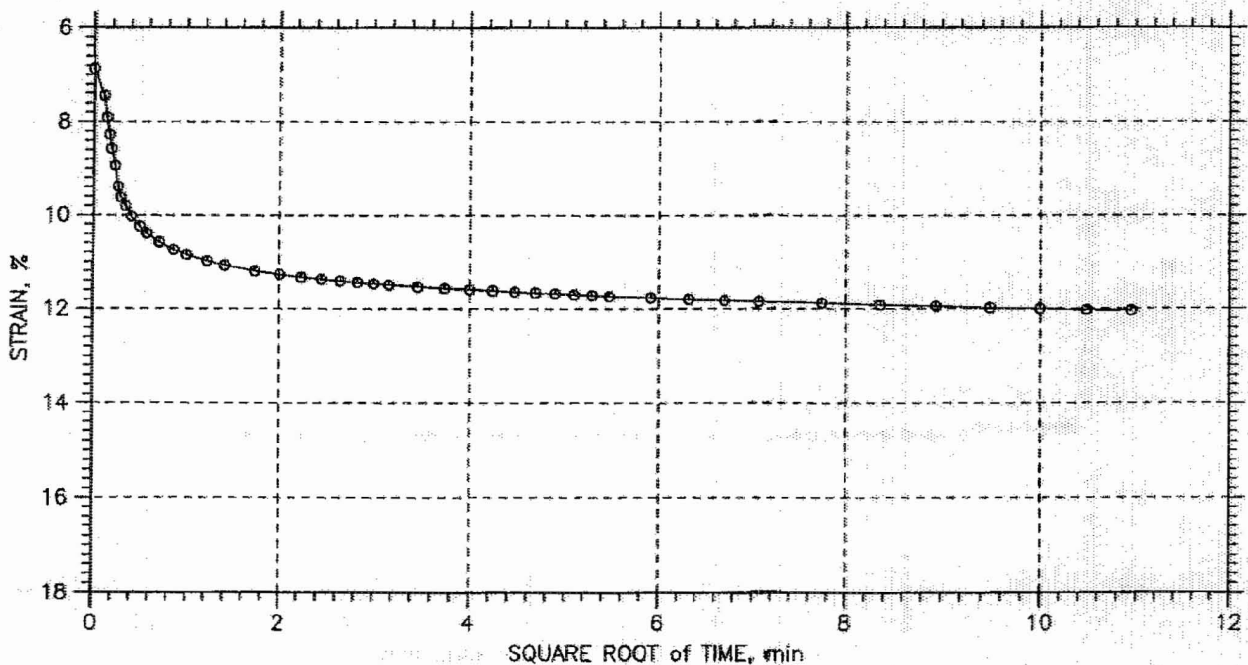
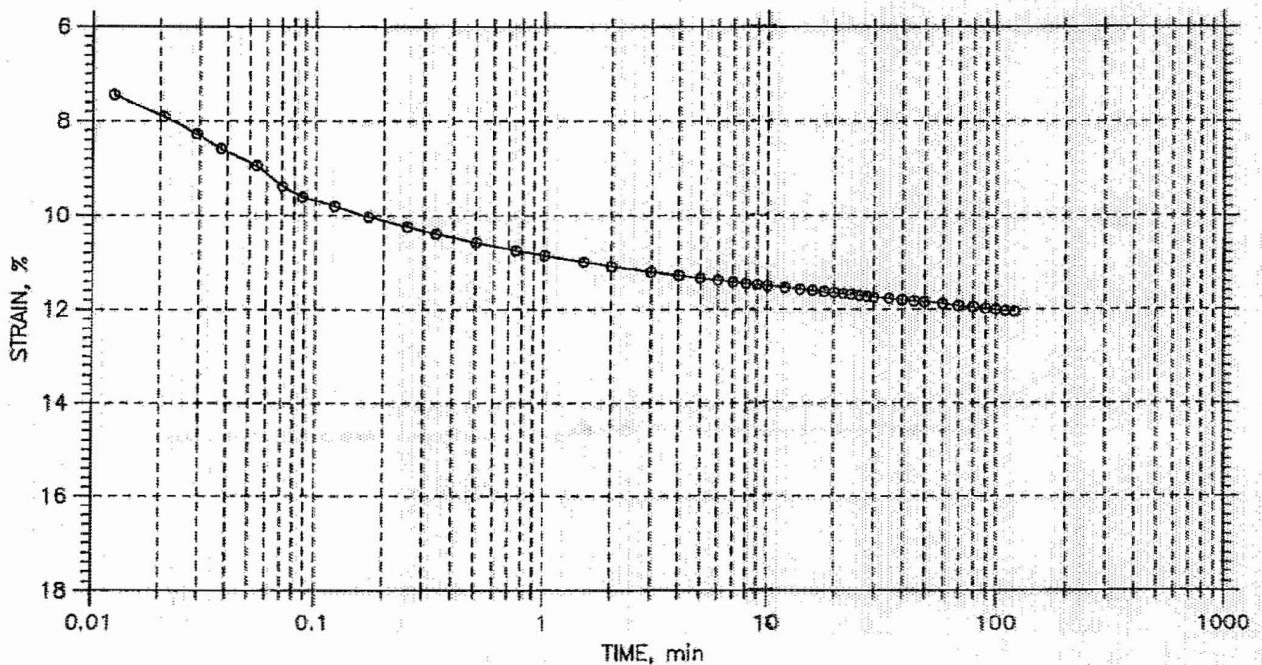
|                                                                                               |                              |                       |
|-----------------------------------------------------------------------------------------------|------------------------------|-----------------------|
| Project: Calvert Cliffs Nuclear PP                                                            | Location: Calvert County, MD | Project No.: GTX-6880 |
| Boring No.: B-334                                                                             | Tested By: md                | Checked By: jdt       |
| Sample No.: S-10                                                                              | Test Date: 09/11/2006        | Depth: 33-34.7        |
| Test No.: C-10                                                                                | Sample Type: tube            | Elevation: ---        |
| Description: Moist, dark greenish gray clay (CL), 95% passing #200 sieve, inundated @ 0.5 tsf |                              |                       |
| Remarks: System S - Compression Ratio: 0.20, Recompression Ratio: 0.02                        |                              |                       |

# CONSOLIDATION TEST DATA

## TIME CURVES

Constant Load Step: 10 of 14

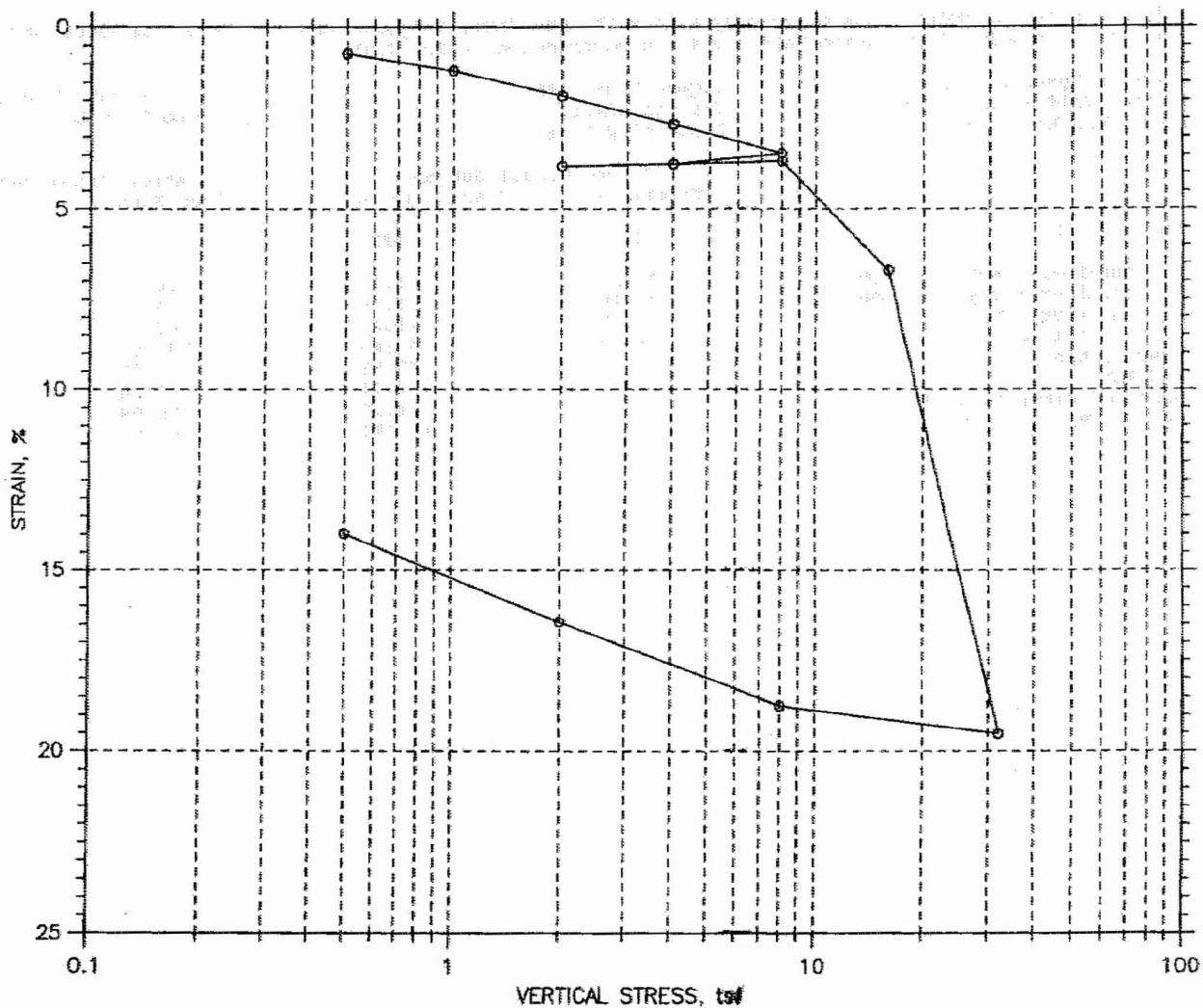
Stress: 16. tsf



|                                                                                           |                                                                                               |                              |                       |
|-------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|------------------------------|-----------------------|
| <b>GeoTesting</b><br><b>express</b><br><small>a subsidiary of Geocomp Corporation</small> | Project: Calvert Cliffs Nuclear PP                                                            | Location: Calvert County, MD | Project No.: GTX-6880 |
|                                                                                           | Boring No.: B-334                                                                             | Tested By: md                | Checked By: jdt       |
|                                                                                           | Sample No.: S-10                                                                              | Test Date: 09/11/2006        | Depth: 33-34.7        |
|                                                                                           | Test No.: C-10                                                                                | Sample Type: tube            | Elevation: ---        |
|                                                                                           | Description: Moist, dark greenish gray clay (CL), 95% passing #200 sieve, inundated @ 0.5 tsf |                              |                       |
|                                                                                           | Remarks: System S - Compression Ratio: 0.20, Recompression Ratio: 0.02                        |                              |                       |



# CONSOLIDATION TEST DATA SUMMARY REPORT



|                                   |        |              |          | Before Test          | After Test |       |
|-----------------------------------|--------|--------------|----------|----------------------|------------|-------|
| Overburden Pressure: ---          |        |              |          | Water Content, %     | 61.95      | 51.21 |
| Preconsolidation Pressure: 13 tsf |        |              |          | Dry Unit Weight, pcf | 60.37      | 70.18 |
| Compression Index: ---            |        |              |          | Saturation, %        | 94.32      | 99.99 |
| Diameter: 2.5 in                  |        | Height: 1 in |          | Void Ratio           | 1.74       | 1.36  |
| LL: 85                            | PL: 54 | PI: 31       | GS: 2.65 |                      |            |       |

|                                                                                     |                                                                                                      |                              |                       |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|------------------------------|-----------------------|
| <b>GeoTesting<br/>express</b><br><small>a subsidiary of Geocomp Corporation</small> | Project: Calvert Cliffs Nuclear PP                                                                   | Location: Calvert County, MD | Project No.: GTX-6880 |
|                                                                                     | Boring No.: B-401                                                                                    | Tested By: md                | Checked By: jdt       |
|                                                                                     | Sample No.: S-28                                                                                     | Test Date: 09/14/06          | Depth: 123.5-124.8    |
|                                                                                     | Test No.: C-13                                                                                       | Sample Type: tube            | Elevation: ---        |
|                                                                                     | Description: Moist, dark olive gray silt with sand (MH), 82% passing #200 sieve, inundated @ 0.5 tsf |                              |                       |
|                                                                                     | Remarks: System R - Compression Ratio: 0.43, Recompression Ratio: 0.03                               |                              |                       |

# CONSOLIDATION TEST DATA

Project: Calvert Cliffs Nuclear PP  
Boring No.: B-401  
Sample No.: S-28  
Test No.: C-13

Location: Calvert County, MD  
Tested By: md  
Test Date: 09/14/06  
Sample Type: tube

Project No.: GTX-6880  
Checked By: jdt  
Depth: 123.5-124.8  
Elevation: ---

Soil Description: Moist, dark olive gray silt with sand (MH), 82% passing #200 sieve, inundated @ 0.5 tsf  
Remarks: System R - Compression Ratio: 0.43, Recompression Ratio: 0.03

Measured Specific Gravity: 2.65  
Initial Void Ratio: 1.74  
Final Void Ratio: 1.36

Liquid Limit: 85  
Plastic Limit: 54  
Plasticity Index: 31

Initial Height: 1.00 in  
Specimen Diameter: 2.50 in

| Container ID                 | Before Consolidation |               | After Consolidation |           |
|------------------------------|----------------------|---------------|---------------------|-----------|
|                              | Trimmings            | Specimen+Ring | Specimen+Ring       | Trimmings |
|                              | 1135                 | RING          |                     | 1031      |
| Wt. Container + Wet Soil, gm | 219.52               | 235.24        | 226.89              | 128.2     |
| Wt. Container + Dry Soil, gm | 144.15               | 187.06        | 187.06              | 87.62     |
| Wt. Container, gm            | 8.17                 | 109.27        | 109.27              | 8.38      |
| Wt. Dry Soil, gm             | 135.98               | 77.785        | 77.785              | 79.24     |
| Water Content, %             | 55.43                | 61.95         | 51.21               | 51.21     |
| Void Ratio                   | ---                  | 1.74          | 1.36                | ---       |
| Degree of Saturation, %      | ---                  | 94.32         | 99.99               | ---       |
| Dry Unit Weight, pcf         | ---                  | 60.358        | 70.182              | ---       |

# CONSOLIDATION TEST DATA

Project: Calvert Cliffs Nuclear PP  
Boring No.: B-401  
Sample No.: S-28  
Test No.: C-13

Location: Calvert County, MD  
Tested By: md  
Test Date: 09/14/06  
Sample Type: tube

Project No.: GTX-6880  
Checked By: jdt  
Depth: 123.5-124.8  
Elevation: ---

Soil Description: Moist, dark olive gray silt with sand (MH), 82% passing #200 sieve, inundated @ 0.5 tsf  
Remarks: System R - Compression Ratio: 0.43, Recompression Ratio: 0.03

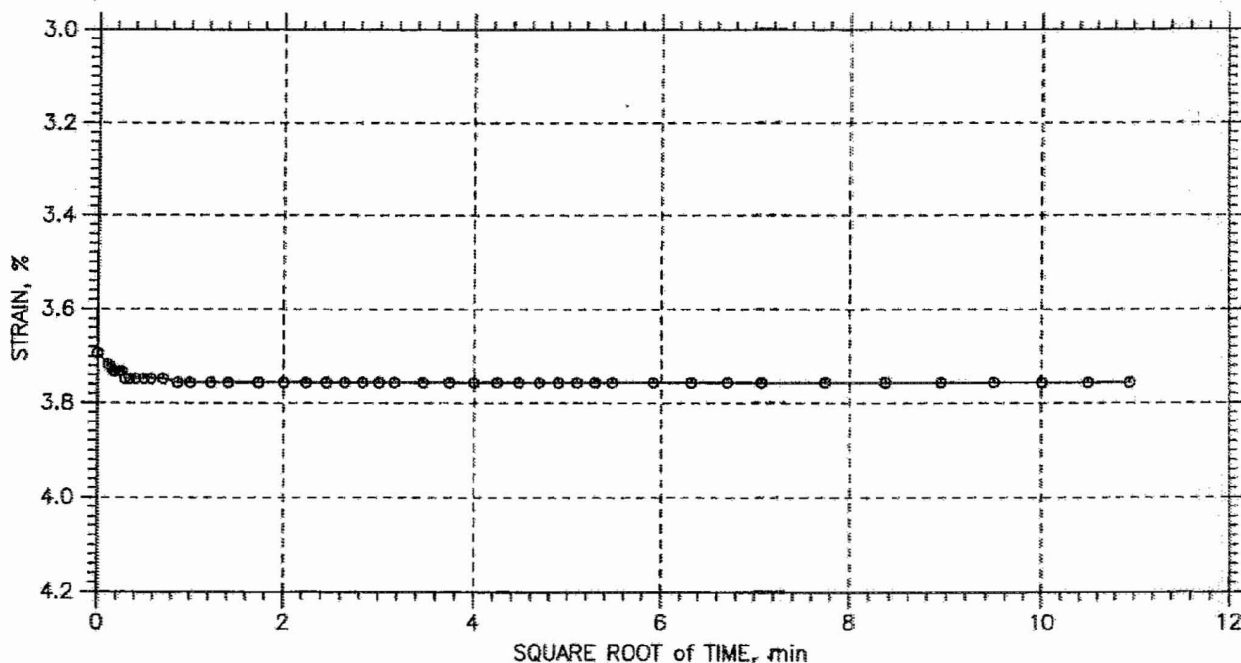
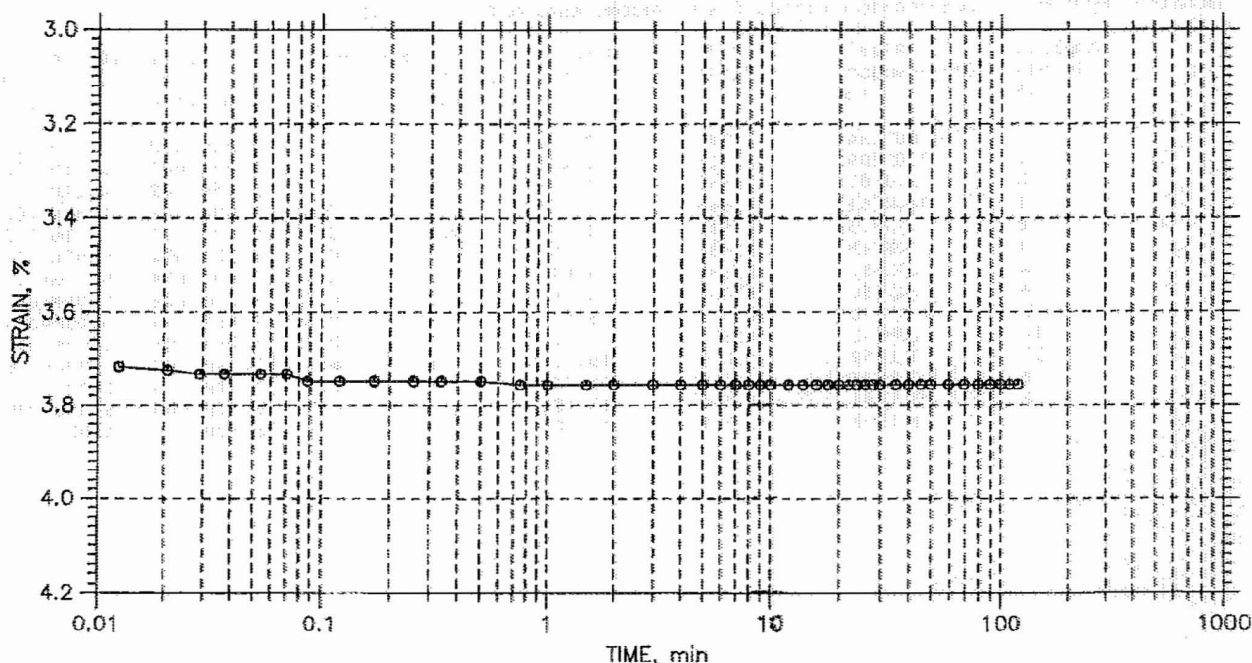
|    | Applied<br>Stress<br>tsf | Final<br>Displacement<br>in | Void<br>Ratio | Strain<br>at End<br>% | T50<br>Sq.Rt.<br>min | Fitting<br>Log<br>min | Coefficient of Consolidation   |                             |                              |
|----|--------------------------|-----------------------------|---------------|-----------------------|----------------------|-----------------------|--------------------------------|-----------------------------|------------------------------|
|    |                          |                             |               |                       |                      |                       | Sq.Rt.<br>in <sup>2</sup> /sec | Log<br>in <sup>2</sup> /sec | Ave.<br>in <sup>2</sup> /sec |
| 1  | 0.5                      | 0.007234                    | 1.721         | 0.72                  | 0.1                  | 0.1                   | 1.31e-002                      | 1.40e-002                   | 1.35e-002                    |
| 2  | 1                        | 0.01189                     | 1.708         | 1.19                  | 0.1                  | 0.1                   | 1.23e-002                      | 1.41e-002                   | 1.32e-002                    |
| 3  | 2                        | 0.0187                      | 1.689         | 1.87                  | 0.0                  | 0.0                   | 2.05e-002                      | 2.11e-002                   | 2.08e-002                    |
| 4  | 4                        | 0.02661                     | 1.668         | 2.66                  | 0.0                  | 0.0                   | 1.59e-002                      | 1.86e-002                   | 1.72e-002                    |
| 5  | 8                        | 0.03453                     | 1.646         | 3.45                  | 0.1                  | 0.1                   | 5.43e-003                      | 1.21e-002                   | 7.51e-003                    |
| 6  | 4                        | 0.03748                     | 1.638         | 3.75                  | 0.0                  | 0.0                   | 7.12e-002                      | 0.00e+000                   | 7.12e-002                    |
| 7  | 2                        | 0.03811                     | 1.636         | 3.81                  | 1.0                  | 0.0                   | 7.90e-004                      | 0.00e+000                   | 7.90e-004                    |
| 8  | 4                        | 0.03756                     | 1.638         | 3.76                  | 0.0                  | 0.0                   | 3.57e-002                      | 0.00e+000                   | 3.57e-002                    |
| 9  | 8                        | 0.03665                     | 1.640         | 3.67                  | 3.7                  | 0.0                   | 2.06e-004                      | 0.00e+000                   | 2.06e-004                    |
| 10 | 16                       | 0.06693                     | 1.557         | 6.69                  | 0.6                  | 0.1                   | 1.28e-003                      | 5.62e-003                   | 2.08e-003                    |
| 11 | 32                       | 0.1952                      | 1.205         | 19.52                 | 3.6                  | 4.7                   | 1.74e-004                      | 1.32e-004                   | 1.50e-004                    |
| 12 | 8                        | 0.1876                      | 1.226         | 18.76                 | 0.7                  | 0.0                   | 8.14e-004                      | 0.00e+000                   | 8.14e-004                    |
| 13 | 2                        | 0.1643                      | 1.290         | 16.43                 | 6.5                  | 6.7                   | 8.56e-005                      | 8.29e-005                   | 8.43e-005                    |
| 14 | 0.5                      | 0.1398                      | 1.357         | 13.98                 | 9.3                  | 11.9                  | 6.37e-005                      | 4.99e-005                   | 5.59e-005                    |

# CONSOLIDATION TEST DATA

## TIME CURVES

Constant Load Step: 8 of 14

Stress: 4. tsf



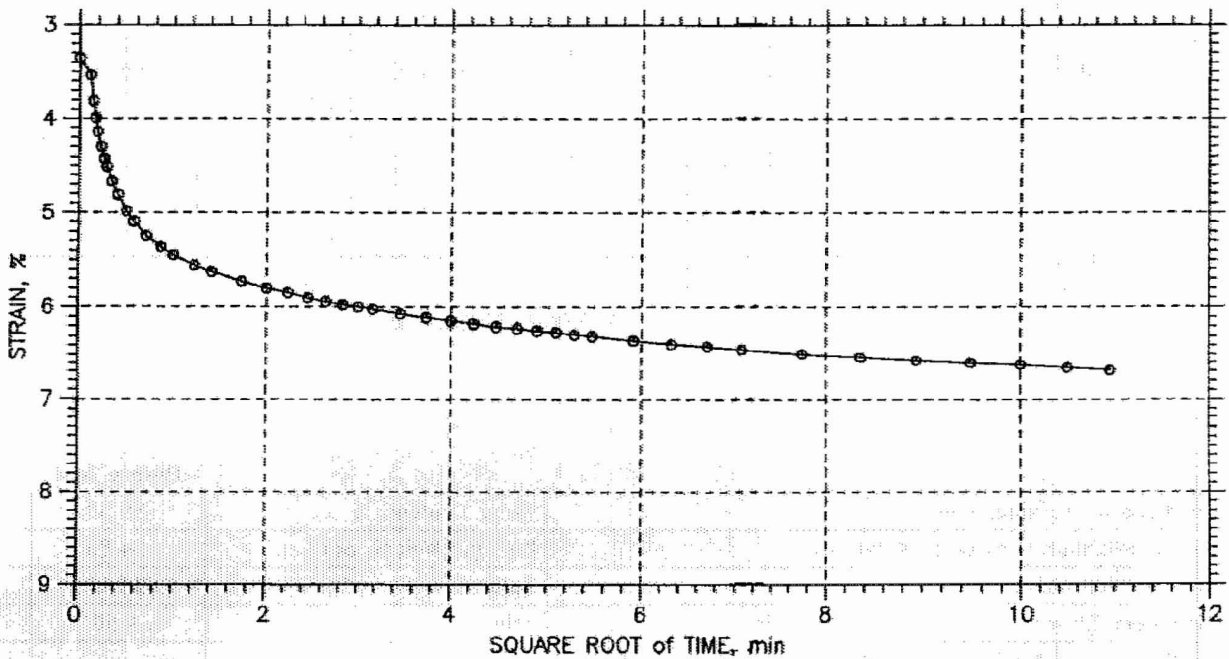
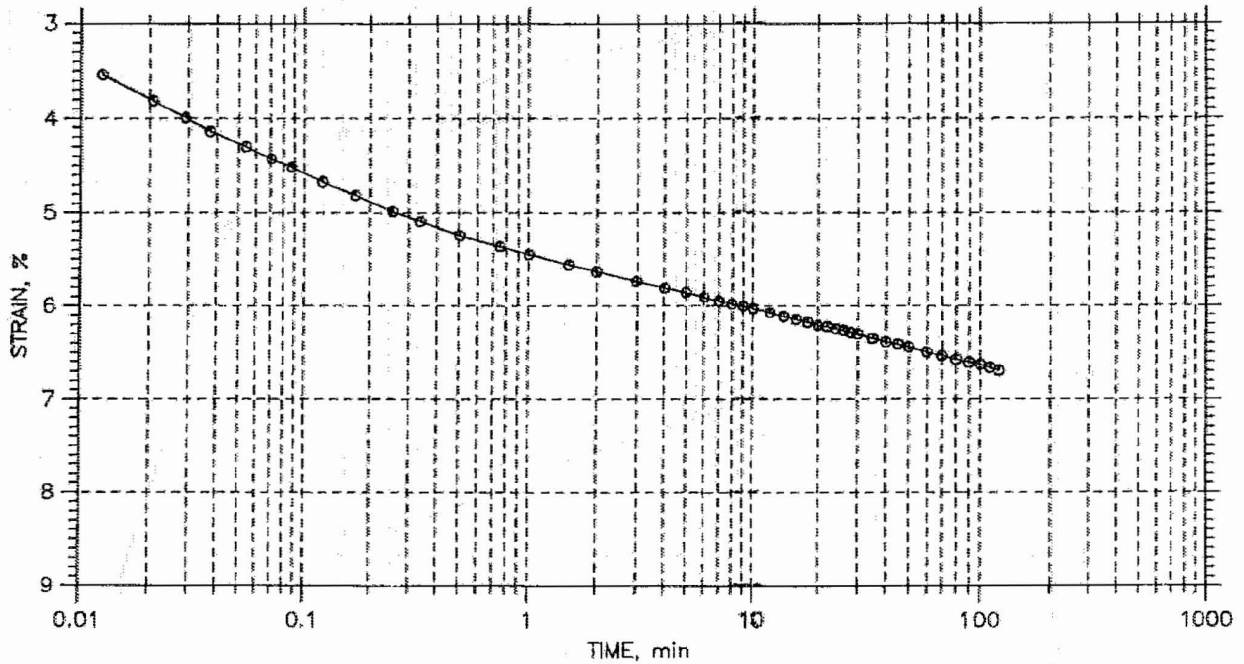
|                                                                                           |                                                                                                      |                              |                       |
|-------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|------------------------------|-----------------------|
| <b>GeoTesting</b><br><b>express</b><br><small>a subsidiary of Geocomp Corporation</small> | Project: Calvert Cliffs Nuclear PP                                                                   | Location: Calvert County, MD | Project No.: GTX-6880 |
|                                                                                           | Boring No.: B-401                                                                                    | Tested By: md                | Checked By: jdt       |
|                                                                                           | Sample No.: S-28                                                                                     | Test Date: 09/14/06          | Depth: 123.5-124.8    |
|                                                                                           | Test No.: C-13                                                                                       | Sample Type: tube            | Elevation: ---        |
|                                                                                           | Description: Moist, dark olive gray silt with sand (MH), 82% passing #200 sieve, inundated @ 0.5 tsf |                              |                       |
|                                                                                           | Remarks: System R - Compression Ratio: 0.43, Recompression Ratio: 0.03                               |                              |                       |

# CONSOLIDATION TEST DATA

## TIME CURVES

Constant Load Step: 10 of 14

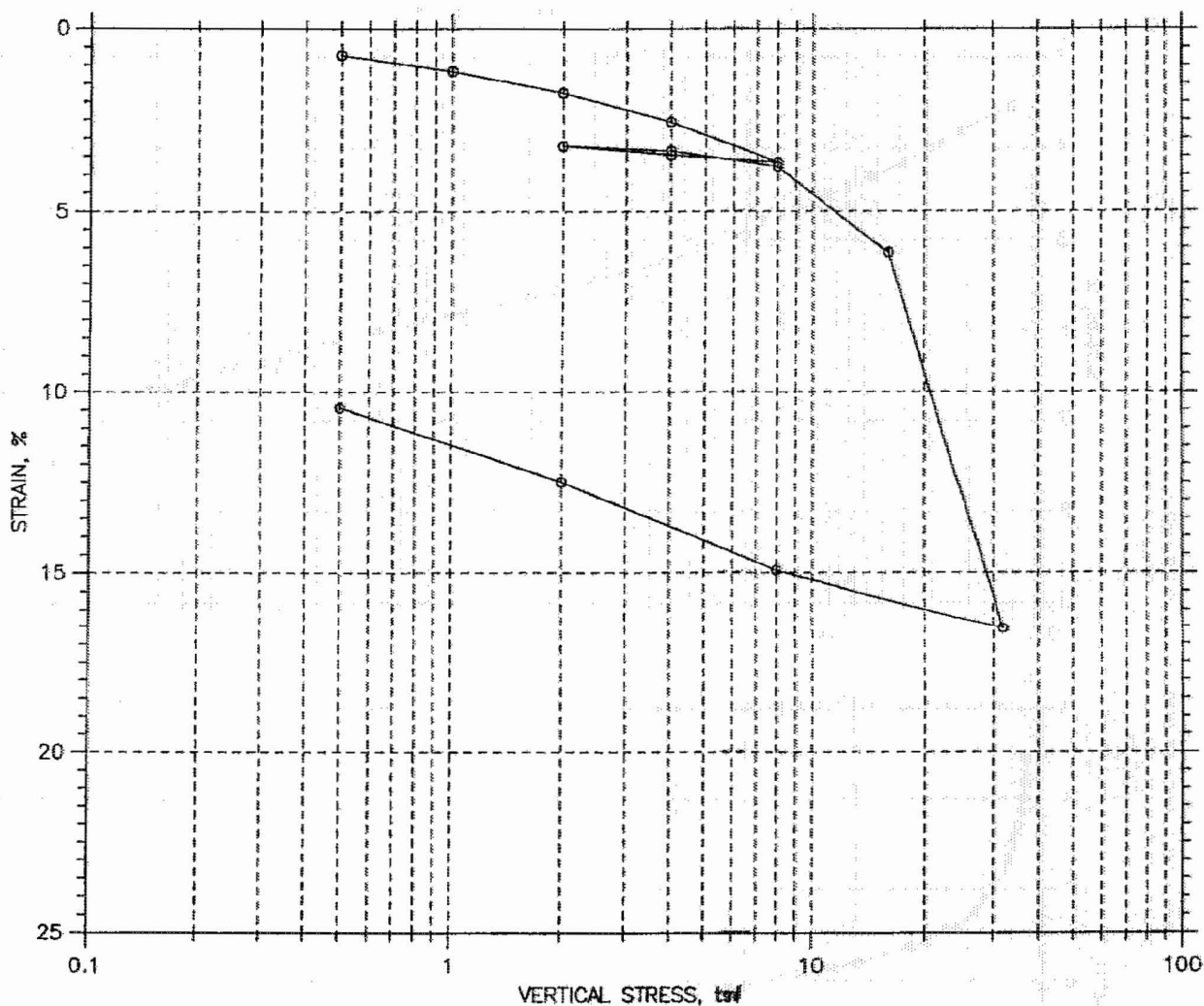
Stress: 16. tsf



|                                                                                           |                                                                                                      |                              |                       |
|-------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|------------------------------|-----------------------|
| <b>GeoTesting</b><br><b>express</b><br><small>a subsidiary of Geocomp Corporation</small> | Project: Calvert Cliffs Nuclear PP                                                                   | Location: Calvert County, MD | Project No.: GTX-6880 |
|                                                                                           | Boring No.: B-401                                                                                    | Tested By: md                | Checked By: jdt       |
|                                                                                           | Sample No.: S-28                                                                                     | Test Date: 09/14/06          | Depth: 123.5-124.8    |
|                                                                                           | Test No.: C-13                                                                                       | Sample Type: tube            | Elevation: ---        |
|                                                                                           | Description: Moist, dark olive gray silt with sand (MH), 82% passing #200 sieve, inundated @ 0.5 tsf |                              |                       |
|                                                                                           | Remarks: System R - Compression Ratio: 0.43, Recompression Ratio: 0.03                               |                              |                       |



# CONSOLIDATION TEST DATA SUMMARY REPORT



|                                   |        |              |          | Before Test          | After Test |        |
|-----------------------------------|--------|--------------|----------|----------------------|------------|--------|
| Overburden Pressure: ---          |        |              |          | Water Content, %     | 55.36      | 48.74  |
| Preconsolidation Pressure: 14 tsf |        |              |          | Dry Unit Weight, pcf | 64.66      | 72.19  |
| Compression Index: ---            |        |              |          | Saturation, %        | 94.12      | 100.00 |
| Diameter: 2.5 in                  |        | Height: 1 in |          | Void Ratio           | 1.56       | 1.29   |
| LL: 81                            | PL: 54 | PI: 27       | GS: 2.65 |                      |            |        |

|                                                                                     |                                                                                        |                              |                       |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|------------------------------|-----------------------|
| <b>GeoTesting<br/>express</b><br><small>a subsidiary of Geocomp Corporation</small> | Project: Calvert Cliffs Nuclear PP                                                     | Location: Calvert County, MD | Project No.: GTX-6880 |
|                                                                                     | Boring No.: B-401                                                                      | Tested By: md                | Checked By: jdt       |
|                                                                                     | Sample No.: S-35                                                                       | Test Date: 09/14/06          | Depth: 158.5-159.3    |
|                                                                                     | Test No.: C-12                                                                         | Sample Type: tube            | Elevation: ---        |
|                                                                                     | Description: Moist, olive sandy silt (MH), 59% passing #200 sieve, inundated @ 0.5 tsf |                              |                       |
|                                                                                     | Remarks: System G - Compression Ratio: 0.35, Recompression Ratio: 0.03                 |                              |                       |

# CONSOLIDATION TEST DATA

Project: Calvert Cliffs Nuclear PP  
 Boring No.: B-401  
 Sample No.: S-35  
 Test No.: C-12

Location: Calvert County, MD  
 Tested By: md  
 Test Date: 09/14/06  
 Sample Type: tube

Project No.: GTX-6880  
 Checked By: jdt  
 Depth: 158.5-159.3  
 Elevation: ---

Soil Description: Moist, olive sandy silt (MH), 59% passing #200 sieve, inundated @ 0.5 tsf  
 Remarks: System G - Compression Ratio: 0.35, Recompression Ratio: 0.03

Measured Specific Gravity: 2.65  
 Initial Void Ratio: 1.56  
 Final Void Ratio: 1.29

Liquid Limit: 81  
 Plastic Limit: 54  
 Plasticity Index: 27

Initial Height: 1.00 in  
 Specimen Diameter: 2.50 in

|                              | Before Consolidation |               | After Consolidation |           |
|------------------------------|----------------------|---------------|---------------------|-----------|
|                              | Trimmings            | Specimen+Ring | Specimen+Ring       | Trimmings |
| Container ID                 | 1490                 | RING          |                     | 1425      |
| Wt. Container + Wet Soil, gm | 176.72               | 345.9         | 340.39              | 135.15    |
| Wt. Container + Dry Soil, gm | 117.51               | 299.78        | 299.78              | 93.71     |
| Wt. Container, gm            | 8.05                 | 215.47        | 216.47              | 8.69      |
| Wt. Dry Soil, gm             | 109.46               | 83.312        | 83.312              | 85.02     |
| Water Content, %             | 54.09                | 55.36         | 46.74               | 48.74     |
| Void Ratio                   | ---                  | 1.56          | 1.29                | ---       |
| Degree of Saturation, %      | ---                  | 94.12         | 100.00              | ---       |
| Dry Unit Weight, pcf         | ---                  | 64.657        | 72.188              | ---       |

# CONSOLIDATION TEST DATA

Project: Calvert Cliffs Nuclear PP  
Boring No.: B-401  
Sample No.: S-35  
Test No.: C-12

Location: Calvert County, MD  
Tested By: md  
Test Date: 09/14/06  
Sample Type: tube

Project No.: GTX-6880  
Checked By: jdt  
Depth: 158.5-159.3  
Elevation: ---

Soil Description: Moist, olive sandy silt (MH), 59% passing #200 sieve, inundated @ 0.5 tsf  
Remarks: System G - Compression Ratio: 0.35, Recompression Ratio: 0.03

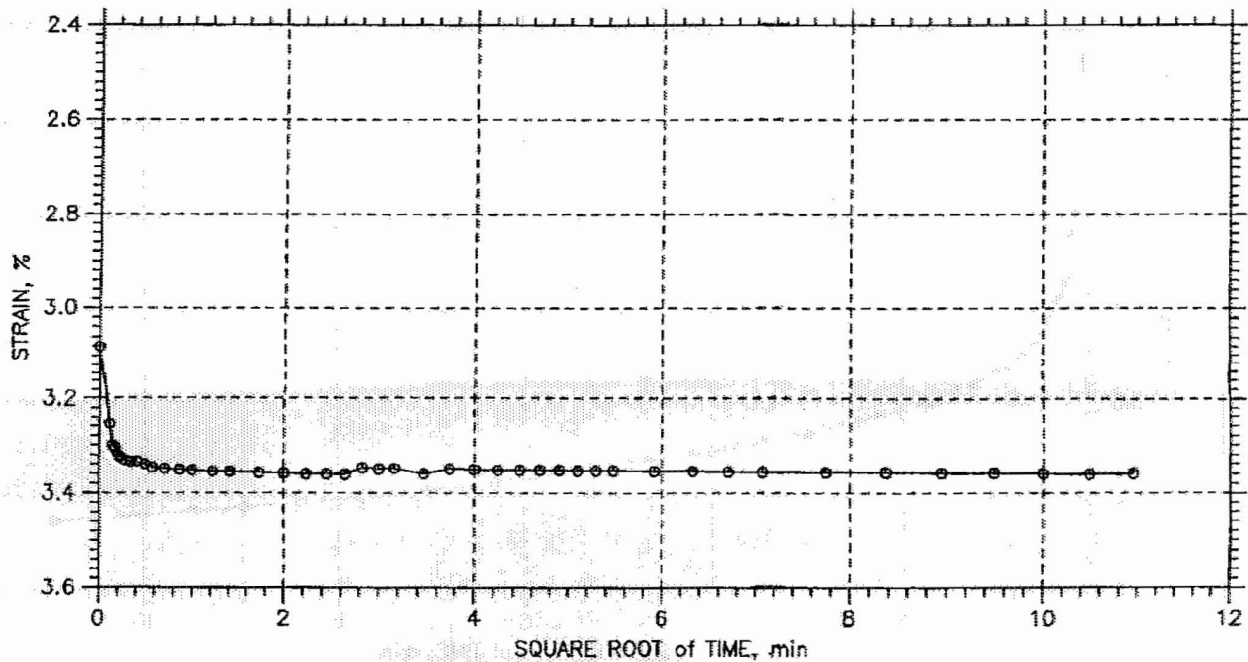
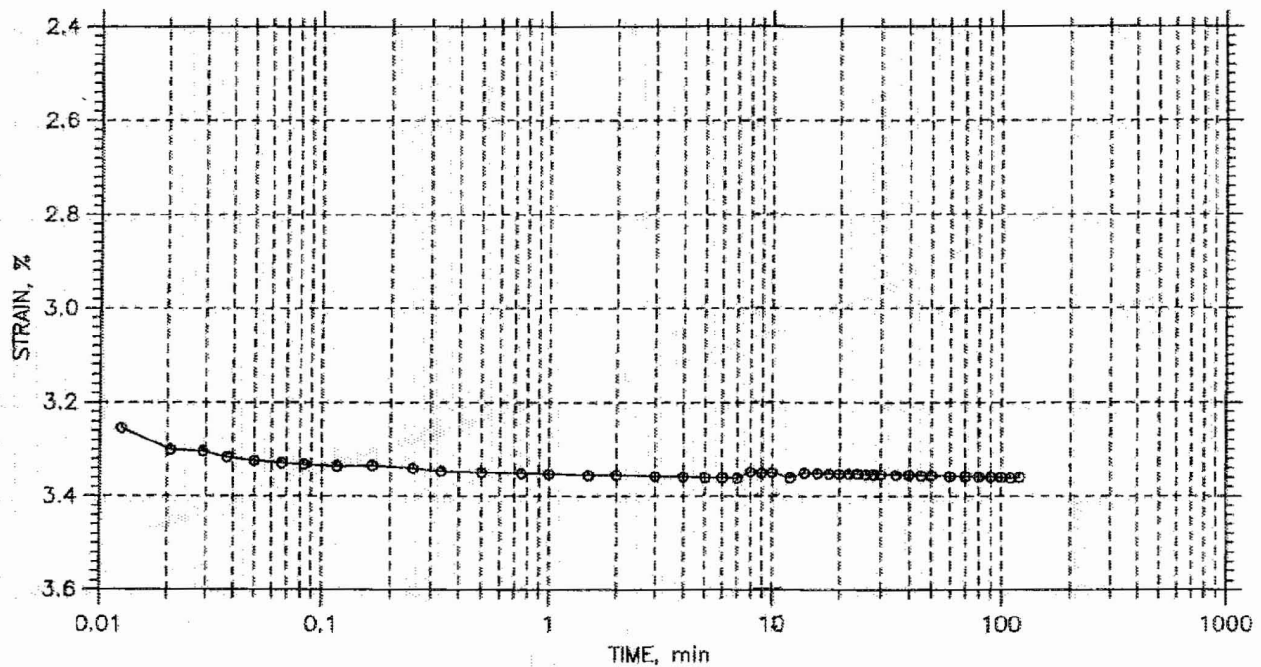
|    | Applied<br>Stress<br>tsf | Final<br>Displacement<br>in | Void<br>Ratio | Strain<br>at End<br>% | T50 Witting   |            | Coefficient of Consolidation   |                             |                              |
|----|--------------------------|-----------------------------|---------------|-----------------------|---------------|------------|--------------------------------|-----------------------------|------------------------------|
|    |                          |                             |               |                       | Sq.Rt.<br>min | Log<br>min | Sq.Rt.<br>in <sup>2</sup> /sec | Log<br>in <sup>2</sup> /sec | Ave.<br>in <sup>2</sup> /sec |
| 1  | 0.5                      | 0.007286                    | 1.540         | 0.73                  | 0.0           | 0.0        | 4.27e-002                      | 0.00e+000                   | 4.27e-002                    |
| 2  | 1                        | 0.01169                     | 1.529         | 1.17                  | 0.0           | 0.0        | 4.50e-002                      | 3.74e-002                   | 4.09e-002                    |
| 3  | 2                        | 0.01761                     | 1.514         | 1.76                  | 0.0           | 0.0        | 2.28e-002                      | 4.40e-002                   | 3.00e-002                    |
| 4  | 4                        | 0.02555                     | 1.493         | 2.56                  | 0.0           | 0.0        | 3.39e-002                      | 6.08e-002                   | 4.36e-002                    |
| 5  | 8                        | 0.03663                     | 1.465         | 3.66                  | 0.0           | 0.0        | 2.13e-002                      | 0.00e+000                   | 2.13e-002                    |
| 6  | 4                        | 0.03462                     | 1.470         | 3.46                  | 0.0           | 0.0        | 1.01e-001                      | 0.00e+000                   | 1.01e-001                    |
| 7  | 2                        | 0.03221                     | 1.476         | 3.22                  | 0.0           | 0.0        | 9.97e-002                      | 0.00e+000                   | 9.97e-002                    |
| 8  | 4                        | 0.0336                      | 1.473         | 3.36                  | 0.0           | 0.0        | 7.38e-002                      | 0.00e+000                   | 7.38e-002                    |
| 9  | 8                        | 0.03771                     | 1.462         | 3.77                  | 0.0           | 0.0        | 9.67e-002                      | 0.00e+000                   | 9.67e-002                    |
| 10 | 16                       | 0.06136                     | 1.402         | 6.14                  | 0.3           | 0.0        | 2.55e-003                      | 0.00e+000                   | 2.55e-003                    |
| 11 | 32                       | 0.1654                      | 1.135         | 16.54                 | 2.6           | 0.0        | 2.48e-004                      | 0.00e+000                   | 2.48e-004                    |
| 12 | 8                        | 0.1492                      | 1.177         | 14.92                 | 0.2           | 0.0        | 3.53e-003                      | 0.00e+000                   | 3.53e-003                    |
| 13 | 2                        | 0.1249                      | 1.239         | 12.49                 | 2.6           | 3.1        | 2.35e-004                      | 1.95e-004                   | 2.13e-004                    |
| 14 | 0.5                      | 0.1043                      | 1.292         | 10.43                 | 5.4           | 8.7        | 1.18e-004                      | 7.38e-005                   | 9.09e-005                    |

# CONSOLIDATION TEST DATA

## TIME CURVES

Constant Load Step: 8 of 14

Stress: 4. tsf



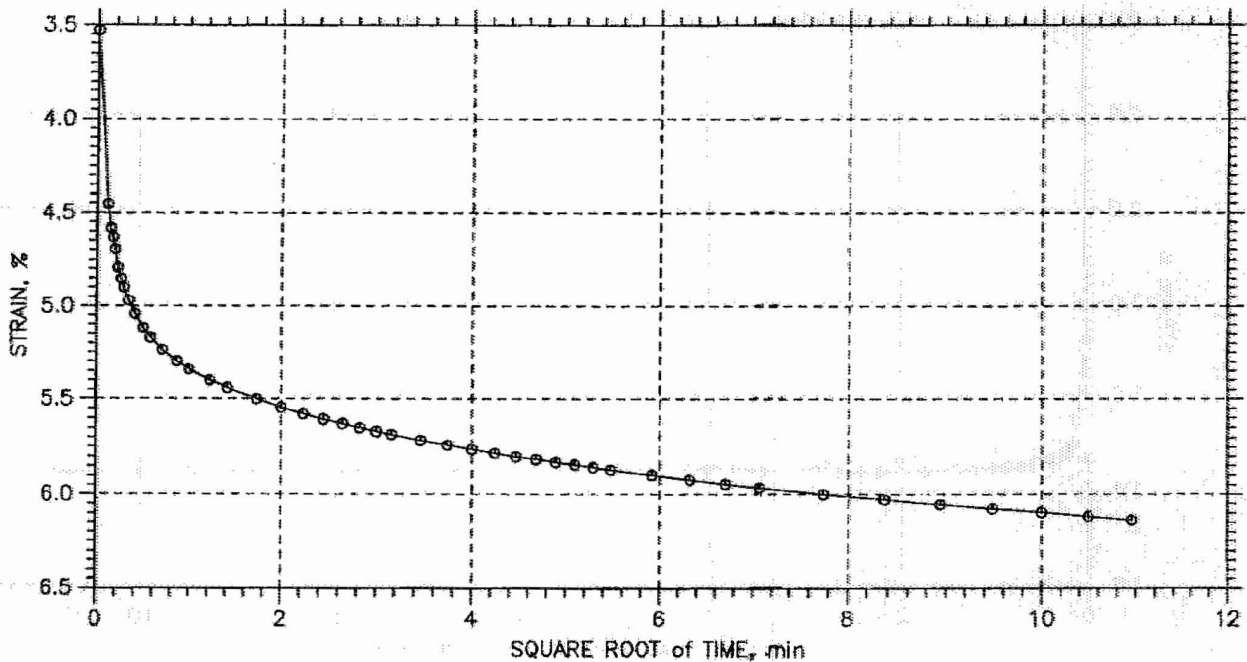
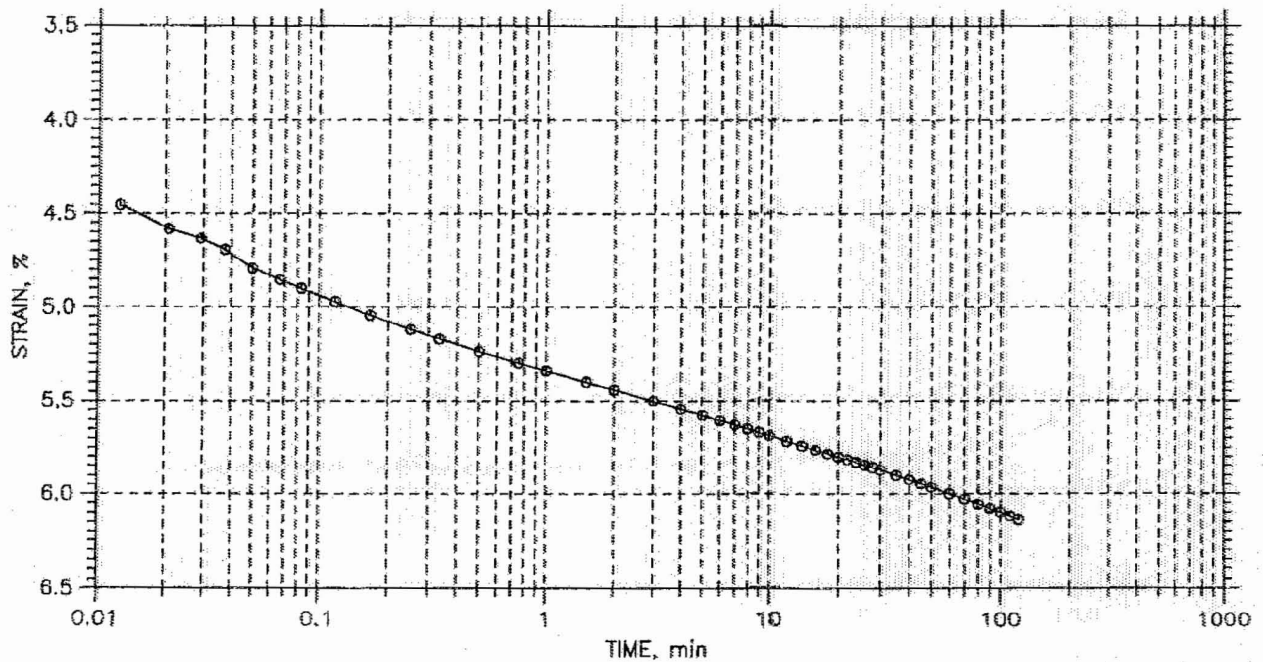
|                                                                                           |                                                                                        |                              |                       |
|-------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|------------------------------|-----------------------|
| <b>GeoTesting</b><br><b>express</b><br><small>a subsidiary of Geocomp Corporation</small> | Project: Calvert Cliffs Nuclear PP                                                     | Location: Calvert County, MD | Project No.: GTX-6880 |
|                                                                                           | Boring No.: B-401                                                                      | Tested By: md                | Checked By: jdt       |
|                                                                                           | Sample No.: S-35                                                                       | Test Date: 09/14/05          | Depth: 158.5-159.3    |
|                                                                                           | Test No.: C-12                                                                         | Sample Type: tube            | Elevation: ---        |
|                                                                                           | Description: Moist, olive sandy silt (MH), 59% passing #200 sieve, inundated @ 0.5 tsf |                              |                       |
|                                                                                           | Remarks: System G - Compression Ratio: 0.35, Recompression Ratio: 0.03                 |                              |                       |

# CONSOLIDATION TEST DATA

## TIME CURVES

Constant Load Step: 10 of 14

Stress: 16. tsf



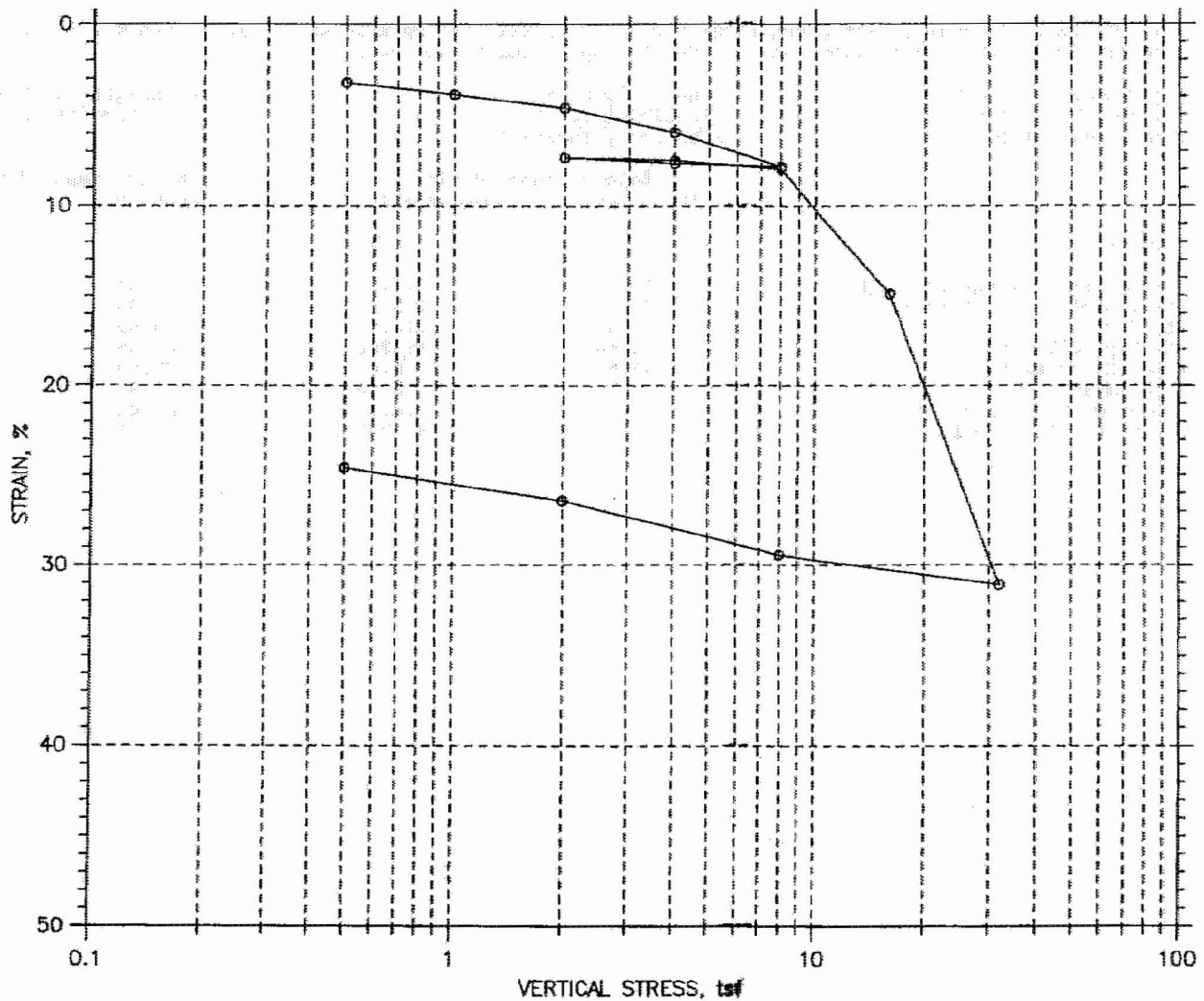
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|                                                                                        |                              |                       |
|----------------------------------------------------------------------------------------|------------------------------|-----------------------|
| Project: Calvert Cliffs Nuclear PP                                                     | Location: Calvert County, MD | Project No.: GTX-6880 |
| Boring No.: B-401                                                                      | Tested By: md                | Checked By: jdt       |
| Sample No.: S-35                                                                       | Test Date: 09/14/06          | Depth: 158.5-159.3    |
| Test No.: C-12                                                                         | Sample Type: tube            | Elevation: ---        |
| Description: Moist, olive sandy silt (MH), 59% passing #200 sieve, inundated @ 0.5 tsf |                              |                       |
| Remarks: System G - Compression Ratio: 0.35, Recompression Ratio: 0.03                 |                              |                       |



# CONSOLIDATION TEST DATA SUMMARY REPORT



|                                   |        |              |          |                      |             |            |
|-----------------------------------|--------|--------------|----------|----------------------|-------------|------------|
| Overburden Pressure: ---          |        |              |          | Water Content, %     | Before Test | After Test |
| Preconsolidation Pressure: 11 tsf |        |              |          | Dry Unit Weight, pcf | 45.32       | 60.11      |
| Compression Index: ---            |        |              |          | Saturation, %        | 84.72       | 100.00     |
| Diameter: 2.5 in                  |        | Height: 1 in |          | Void Ratio           | 2.80        | 1.87       |
| LL: 57                            | PL: 17 | PI: 40       | GS: 2.76 |                      |             |            |

|                                                                                     |                                                                                               |                              |                       |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|------------------------------|-----------------------|
| <b>GeoTesting<br/>express</b><br><small>a subsidiary of Geosomp Corporation</small> | Project: Calvert Cliffs Nuclear PP                                                            | Location: Calvert County, MD | Project No.: GTX-6580 |
|                                                                                     | Boring No.: B-401                                                                             | Tested By: md                | Checked By: jdt       |
|                                                                                     | Sample No.: S-37                                                                              | Test Date: 09/14/2006        | Depth: 173.5-174.4    |
|                                                                                     | Test No.: C-14                                                                                | Sample Type: tube            | Elevation: ---        |
|                                                                                     | Description: Moist, dark greenish gray clay (CH), 98% passing #200 sieve, inundated @ 0.5 tsf |                              |                       |
|                                                                                     | Remarks: System S - Compression Ratio: 0.54, Recompression Ratio: 0.04                        |                              |                       |

# CONSOLIDATION TEST DATA

Project: Calvert Cliffs Nuclear PP  
Boring No.: B-401  
Sample No.: S-37  
Test No.: C-14

Location: Calvert County, MD  
Tested By: md  
Test Date: 09/14/2006  
Sample Type: tube

Project No.: GTX-6880  
Checked By: jdt  
Depth: 173.5-174.4  
Elevation: ---

Soil Description: Moist, dark greenish gray clay (CH), 98% passing #200 sieve, inundated @ 0.5 tsf  
Remarks: System S - Compression Ratio: 0.54, Recompression Ratio: 0.04

Measured Specific Gravity: 2.76  
Initial Void Ratio: 2.80  
Final Void Ratio: 1.87

Liquid Limit: 57  
Plastic Limit: 17  
Plasticity Index: 40

Initial Height: 1.00 in  
Specimen Diameter: 2.50 in

|                              | Before Consolidation |               | After Consolidation |           |
|------------------------------|----------------------|---------------|---------------------|-----------|
|                              | Trimmings            | Specimen+Ring | Specimen+Ring       | Trimmings |
| Container ID                 | 1131                 | RING          |                     | 1768      |
| Wt. Container + Wet Soil, gm | 160.45               | 325.27        | 314.54              | 109.15    |
| Wt. Container + Dry Soil, gm | 92.83                | 275.05        | 275.05              | 68.48     |
| Wt. Container, gm            | 8.19                 | 216.65        | 216.65              | 8.34      |
| Wt. Dry Soil, gm             | 84.64                | 58.398        | 58.398              | 60.14     |
| Water Content, %             | 79.89                | 86.00         | 67.63               | 67.63     |
| Void Ratio                   | ---                  | 2.80          | 1.87                | ---       |
| Degree of Saturation, %      | ---                  | 84.72         | 100.00              | ---       |
| Dry Unit Weight, pcf         | ---                  | 45.322        | 60.11               | ---       |

# CONSOLIDATION TEST DATA

Project: Calvert Cliffs Nuclear PP  
 Boring No.: B-401  
 Sample No.: S-37  
 Test No.: C-14

Location: Calvert County, MD  
 Tested By: md  
 Test Date: 09/14/2006  
 Sample Type: tube

Project No.: GTX-6880  
 Checked By: jdt  
 Depth: 173.5-174.4  
 Elevation: ---

Soil Description: Moist, dark greenish gray clay (CH), 98% passing #200 sieve, inundated @ 0.5 tsf  
 Remarks: System S - Compression Ratio: 0.54, Recompression Ratio: 0.04

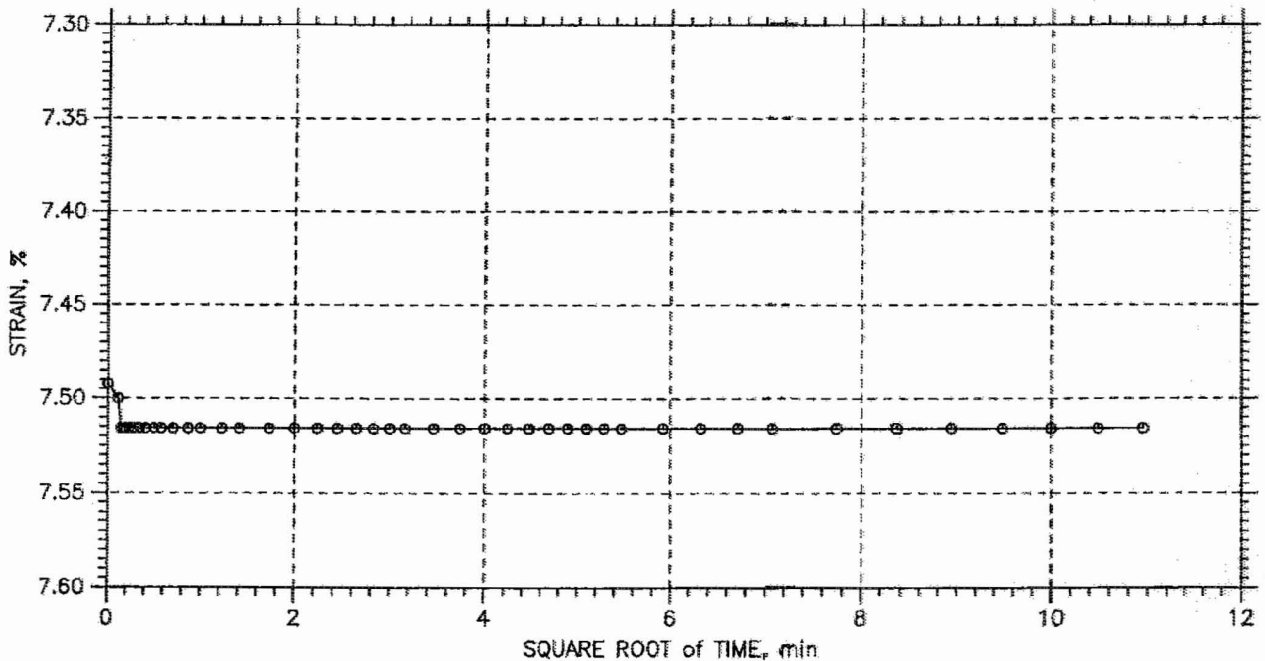
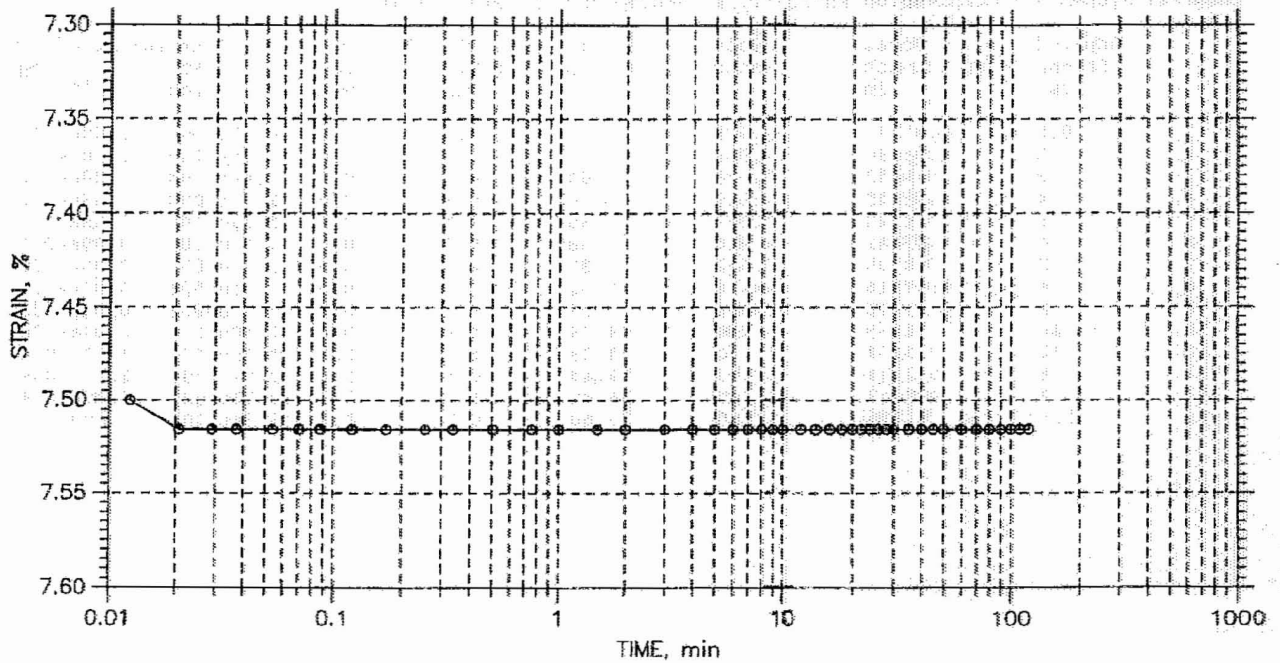
|    | Applied<br>Stress<br>tsf | Final<br>Displacement<br>in | Void<br>Ratio | Strain<br>at End<br>% | T50 Fitting<br>Sq.Rt.<br>min | Log<br>min | Coefficient of Consolidation   |                             |                              |
|----|--------------------------|-----------------------------|---------------|-----------------------|------------------------------|------------|--------------------------------|-----------------------------|------------------------------|
|    |                          |                             |               |                       |                              |            | Sq.Rt.<br>in <sup>2</sup> /sec | Log<br>in <sup>2</sup> /sec | Ave.<br>in <sup>2</sup> /sec |
| 1  | 0.5                      | 0.03236                     | 2.679         | 3.24                  | 0.2                          | 0.0        | 4.95e-003                      | 0.00e+000                   | 4.95e-003                    |
| 2  | 1                        | 0.03894                     | 2.654         | 3.89                  | 0.1                          | 0.0        | 1.45e-002                      | 0.00e+000                   | 1.45e-002                    |
| 3  | 2                        | 0.0463                      | 2.626         | 4.63                  | 0.1                          | 0.0        | 7.44e-003                      | 1.90e-002                   | 1.07e-002                    |
| 4  | 4                        | 0.05965                     | 2.575         | 5.96                  | 0.1                          | 0.0        | 1.46e-002                      | 1.58e-002                   | 1.51e-002                    |
| 5  | 8                        | 0.0785                      | 2.503         | 7.85                  | 0.1                          | 0.0        | 1.37e-002                      | 1.89e-002                   | 1.59e-002                    |
| 6  | 4                        | 0.07681                     | 2.510         | 7.68                  | 0.0                          | 0.0        | 4.03e-002                      | 0.00e+000                   | 4.03e-002                    |
| 7  | 2                        | 0.0735                      | 2.522         | 7.35                  | 0.0                          | 0.0        | 3.91e-002                      | 0.00e+000                   | 3.91e-002                    |
| 8  | 4                        | 0.07516                     | 2.516         | 7.52                  | 0.0                          | 0.0        | 4.46e-002                      | 0.00e+000                   | 4.46e-002                    |
| 9  | 8                        | 0.07976                     | 2.498         | 7.98                  | 0.0                          | 0.0        | 3.64e-002                      | 0.00e+000                   | 3.64e-002                    |
| 10 | 16                       | 0.1489                      | 2.236         | 14.89                 | 4.3                          | 0.0        | 1.48e-004                      | 0.00e+000                   | 1.48e-004                    |
| 11 | 32                       | 0.3109                      | 1.620         | 31.09                 | 1.3                          | 1.2        | 3.86e-004                      | 4.08e-004                   | 3.97e-004                    |
| 12 | 8                        | 0.2944                      | 1.683         | 29.44                 | 0.4                          | 0.4        | 9.01e-004                      | 9.19e-004                   | 9.10e-004                    |
| 13 | 2                        | 0.2642                      | 1.797         | 26.42                 | 1.9                          | 2.5        | 2.21e-004                      | 1.70e-004                   | 1.92e-004                    |
| 14 | 0.5                      | 0.246                       | 1.866         | 24.60                 | 6.6                          | 8.1        | 6.94e-005                      | 5.60e-005                   | 6.20e-005                    |

# CONSOLIDATION TEST DATA

## TIME CURVES

Constant Load Step: 8 of 14

Stress: 4. tsf



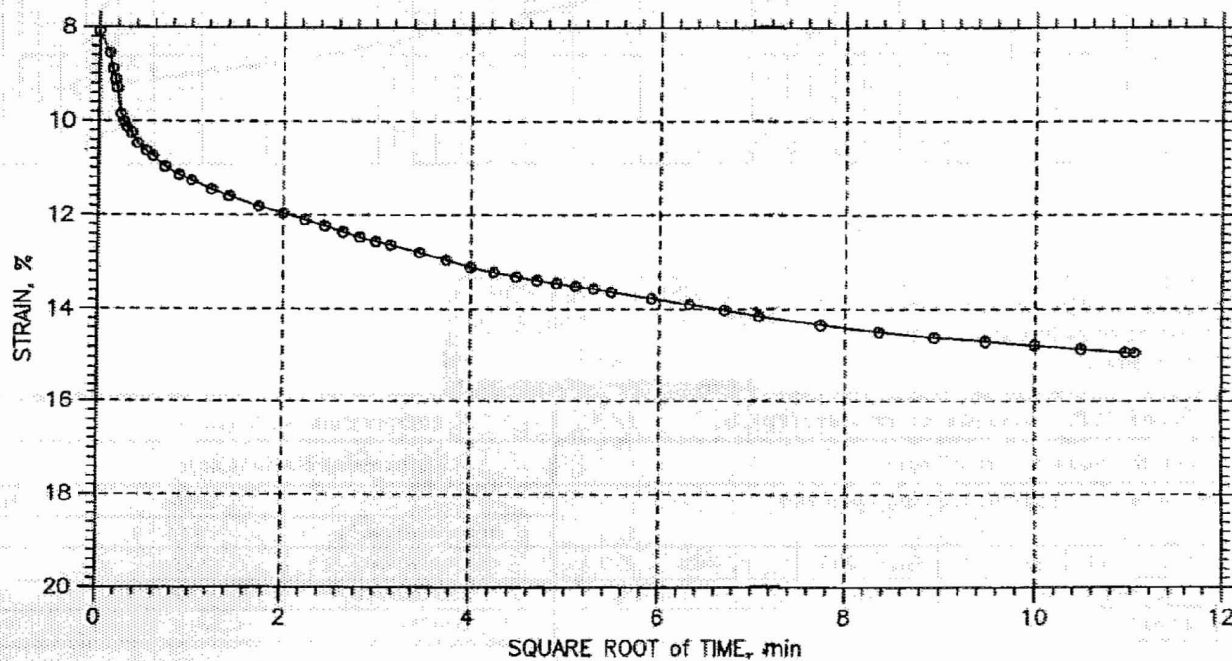
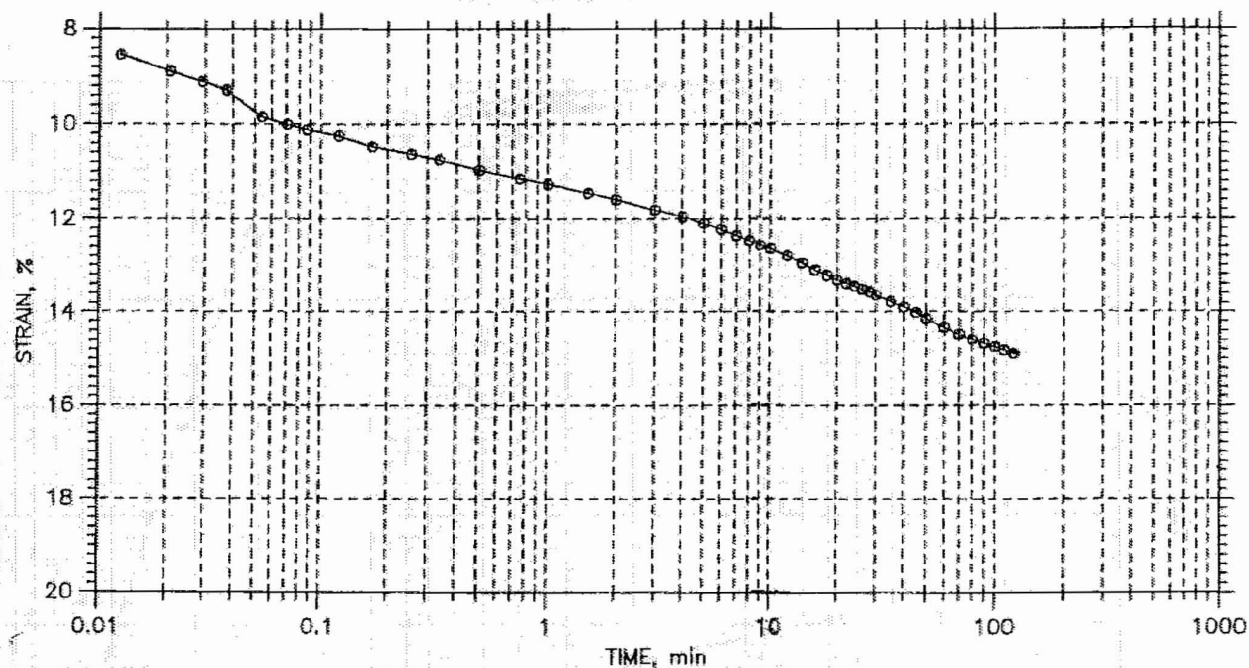
|                                                                                           |                                                                                               |                              |                       |
|-------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|------------------------------|-----------------------|
| <b>GeoTesting</b><br><b>express</b><br><small>a subsidiary of Geocomp Corporation</small> | Project: Calvert Cliffs Nuclear PP                                                            | Location: Calvert County, MD | Project No.: GTX-6880 |
|                                                                                           | Boring No.: B-401                                                                             | Tested By: md                | Checked By: jdt       |
|                                                                                           | Sample No.: S-37                                                                              | Test Date: 09/14/2006        | Depth: 173.5-174.4    |
|                                                                                           | Test No.: C-14                                                                                | Sample Type: tube            | Elevation: ---        |
|                                                                                           | Description: Moist, dark greenish gray clay (CH), 98% passing #200 sieve, inundated @ 0.5 tsf |                              |                       |
|                                                                                           | Remarks: System S - Compression Ratio: 0.54, Recompression Ratio: 0.04                        |                              |                       |

# CONSOLIDATION TEST DATA

## TIME CURVES

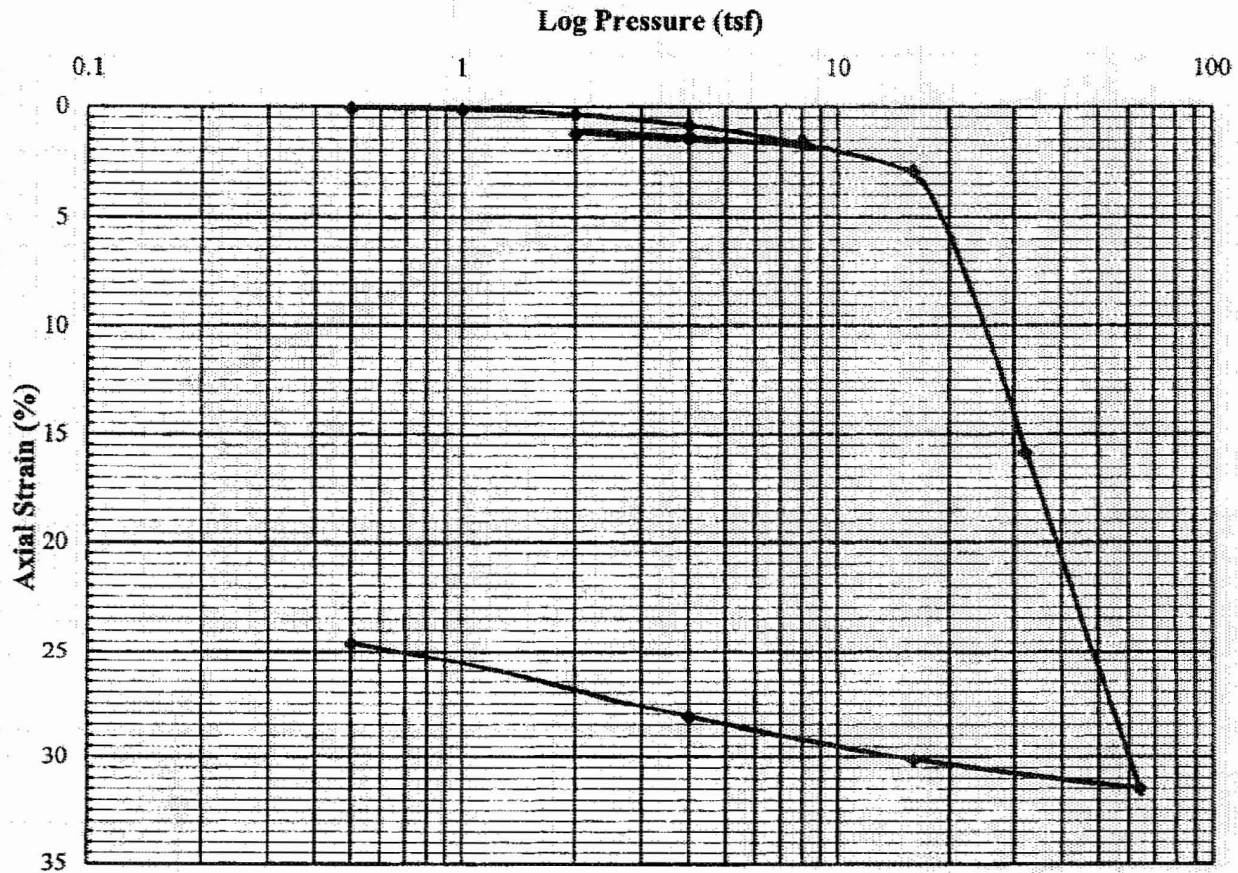
Constant Load Step: 10 of 14

Stress: 16. tsf



|                                                                                           |                                                                                               |                              |                       |
|-------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|------------------------------|-----------------------|
| <b>GeoTesting</b><br><b>express</b><br><small>a subsidiary of Geocomp Corporation</small> | Project: Calvert Cliffs Nuclear PP                                                            | Location: Calvert County, MD | Project No.: GTX-6880 |
|                                                                                           | Boring No.: B-401                                                                             | Tested By: md                | Checked By: jdt       |
|                                                                                           | Sample No.: S-37                                                                              | Test Date: 09/14/2006        | Depth: 173.5-174.4    |
|                                                                                           | Test No.: C-14                                                                                | Sample Type: tube            | Elevation: ---        |
|                                                                                           | Description: Moist, dark greenish gray clay (CH), 98% passing #200 sieve, inundated @ 0.5 tsf |                              |                       |
|                                                                                           | Remarks: System S - Compression Ratio: 0.54, Recompression Ratio: 0.04                        |                              |                       |





Coefficient of Consolidation,  $C_v$ , equals 476 ft<sup>2</sup>/yr at an average pressure of 24 tsf (square root of time method).

REVISED FORM FOR  
NCR NO. 25237-NCR-028  
2/12/07

|                                                                                     |               |                                         |                                      |                                                         |                                    |              |
|-------------------------------------------------------------------------------------|---------------|-----------------------------------------|--------------------------------------|---------------------------------------------------------|------------------------------------|--------------|
| <b>Probable Preconsolidation Pressure (<math>P_p</math>), tsf:</b> 18.3             |               |                                         |                                      | <b>Recompression Ratio (<math>C_{sr}</math>):</b> 0.006 |                                    |              |
| <b>Type of Specimen:</b> Tube Sample                                                |               |                                         |                                      | <b>Compression Ratio (<math>C_{cr}</math>):</b> 0.519   |                                    |              |
| <b>Description:</b> ELASTIC SILT (MH) - green gray                                  |               |                                         |                                      |                                                         | <b>Initial</b>                     | <b>Final</b> |
|                                                                                     |               |                                         |                                      | <b>Water Content, %</b>                                 | 102.4                              | 70.6         |
| <b>LL:</b> 140                                                                      | <b>PI:</b> 75 | <b>Gs:</b> 2.36                         | <b><math>P_u'</math> (tsf):</b> 7.45 | <b>Void Ratio</b>                                       | 2.41                               | 1.57         |
| <b>% &lt; No. 200:</b> 98.7                                                         |               | <b>Test Method:</b> ASTM D2435 Method A |                                      | <b>Saturation, %</b>                                    | 100                                | 100          |
| <b>Test Condition:</b> Inundated @ 4 tsf                                            |               |                                         |                                      | <b>Dry Unit Weight, pcf</b>                             | 43.1                               | 57.2         |
| <b>Remarks:</b> Oven dried LL = 112                                                 |               |                                         |                                      | <b>Project:</b> Calvert Cliffs Nuclear Power Plant      |                                    |              |
| <b>Average Water Content of Trimmings, %:</b> 100.5                                 |               |                                         |                                      | <b>Location:</b> Calvert County, MD                     |                                    |              |
|  |               |                                         |                                      | <b>Boring:</b> B-401                                    | <b>Schnabel No.:</b> 06120048      |              |
|                                                                                     |               |                                         |                                      | <b>Depth:</b> 243.5-244.4 ft                            | <b>Elevation:</b> -171.4 to -172.3 |              |
|                                                                                     |               |                                         |                                      | <b>Date:</b> 11/21/2006                                 | <b>Reviewed by:</b> CJS            |              |
|                                                                                     |               |                                         |                                      | <b>Consolidation Test Report</b>                        |                                    |              |