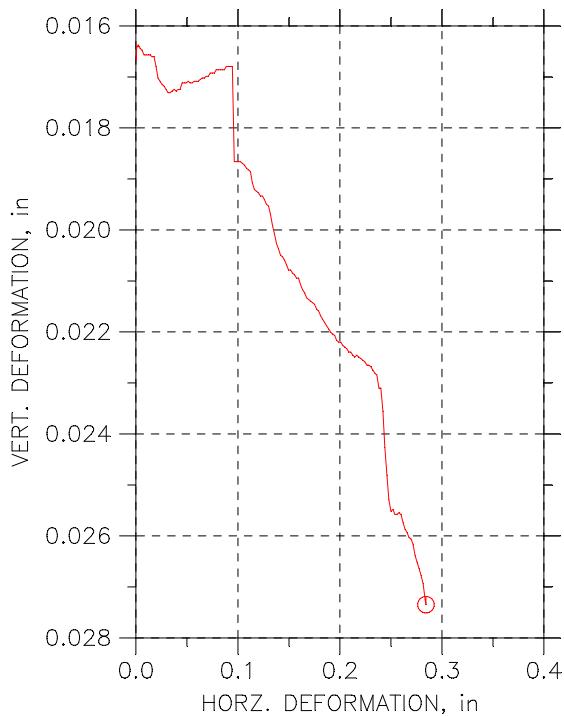
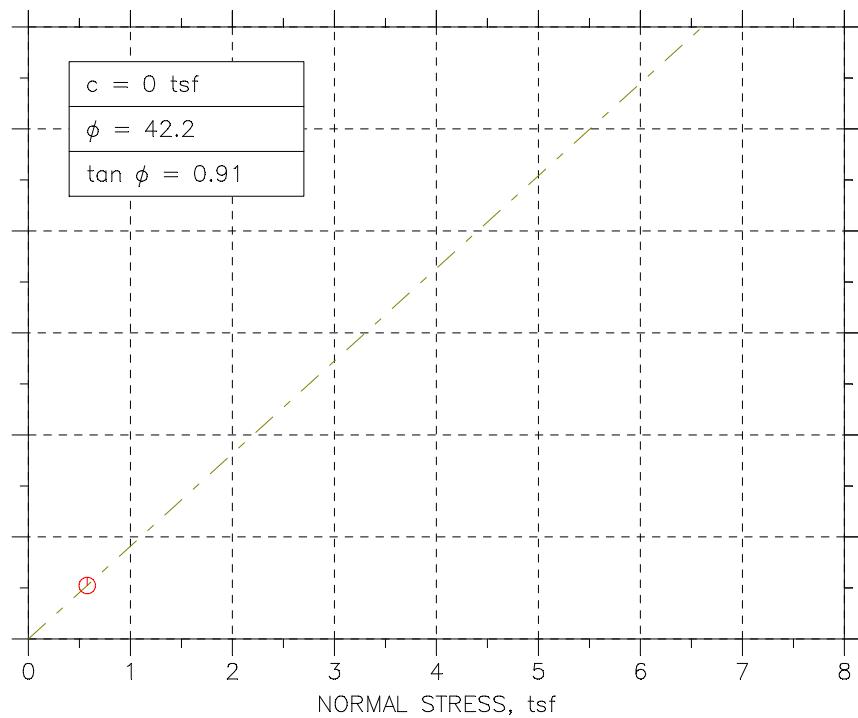
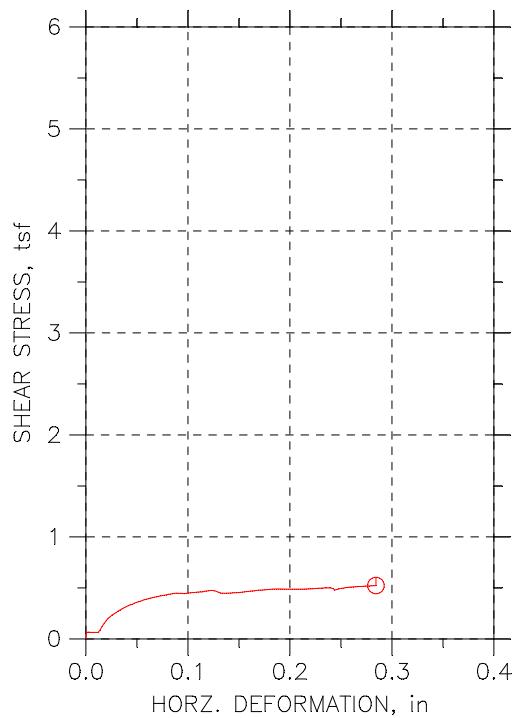


DIRECT SHEAR TEST REPORT



Symbol	Ø			
Test No.	102BOST2A			
Sample No.	OST-2			
Shape	Circular			
Initial	Dimension, in	2.5		
	Area, in ²	4.9087		
	Height, in	1.1685		
	Water Content, %	116.06		
	Dry Density, pcf	71.624		
	Saturation, %	262.33		
	Void Ratio	1.0308		
	Consol. Height, in	1.1561		
	Consol. Void Ratio	1.0092		
Final	Water Content, %	42.20		
	Dry Density, pcf	73.34		
	Saturation, %	100.00		
	Void Ratio	0.98332		
	Normal Stress, tsf	0.57653		
	Max. Shear Stress, tsf	0.52365		
	Ult. Shear Stress, tsf	0.52365		
	Time to Failure, min	1694.8		

Project: KINGSTON COAL	Disp. Rate, in/min	0.00017717
Location: TN	Measured Specific Gravity	2.33
Project No.: 60095742	Liquid Limit	NP
Boring No.: 200 8 psi	Plastic Limit	NP
Sample Type: REMOLDED	Plasticity Index	NP
Description: FLYASH - GRAY - RECONSTITUTED FLY ASH FROM 200 SOIL BORINGS		
Remarks: TEST PERFORMED AS PER ASTM D 3080		

DIRECT SHEAR TEST DATA

Project: KINGSTON COAL
 Boring No.: 200 8 psi
 Sample No.: OST-2
 Test No.: 102BOST2A

Location: TN
 Tested By: BCM
 Test Date: 02/09/09
 Sample Type: REMOLDED

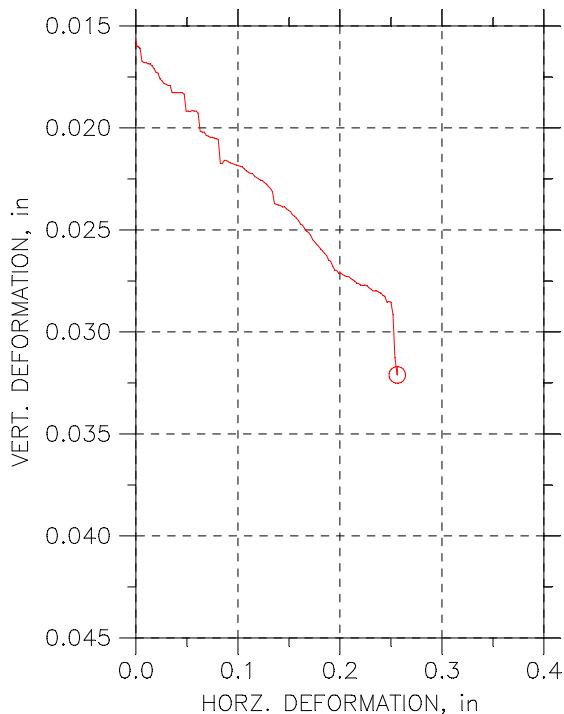
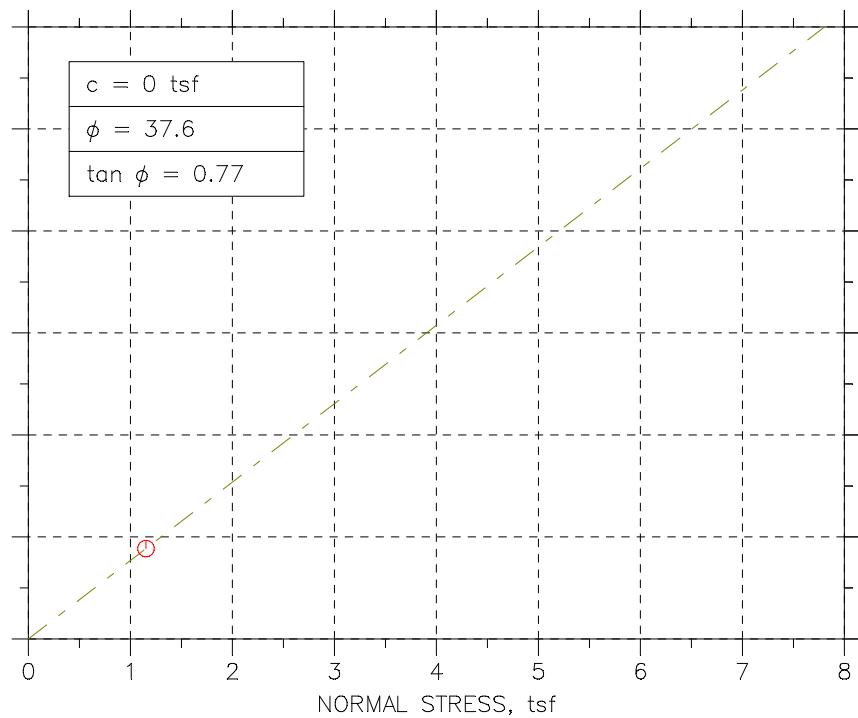
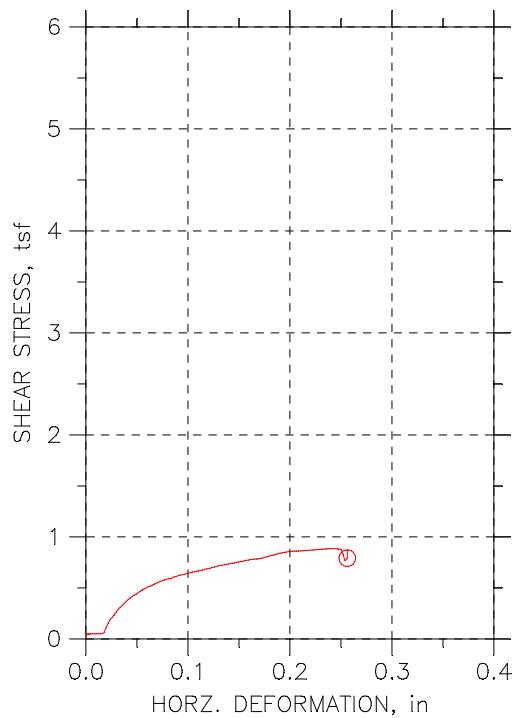
Project No.: 60095742
 Checked By: WPQ
 Depth: NA
 Elevation: NA

Soil Description: FLYASH - GRAY - RECONSTITUTED FLY ASH FROM 200 SOIL BORINGS
 Remarks: TEST PERFORMED AS PER ASTM D 3080

Elapsed Time min	Vertical Stress tsf	Vertical Displacement in	Horizontal Stress tsf	Horizontal Displacement in
1	0.00	0.5757	0.01657	0
2	57.33	0.5765	0.01667	0.04252 0.0004318
3	87.80	0.5765	0.01641	0.06536 0.0008156
4	90.92	0.5765	0.01641	0.06457 0.001199
5	92.01	0.5765	0.01641	0.06457 0.001583
6	94.52	0.5765	0.01638	0.06536 0.002015
7	96.83	0.5765	0.01638	0.06536 0.002399
8	98.67	0.5765	0.01641	0.06457 0.002783
9	101.10	0.5765	0.01641	0.06457 0.003166
10	104.12	0.5765	0.01641	0.06536 0.00355
11	106.93	0.5773	0.01644	0.06457 0.003982
12	121.26	0.5765	0.01647	0.06457 0.005949
13	133.40	0.5765	0.01657	0.06378 0.007916
14	141.85	0.5765	0.01657	0.06378 0.009883
15	156.10	0.5765	0.01657	0.06457 0.01185
16	173.88	0.5765	0.01657	0.08504 0.01382
17	187.12	0.5765	0.0166	0.1213 0.01578
18	197.82	0.5765	0.0166	0.148 0.01775
19	211.96	0.5765	0.0168	0.1772 0.01972
20	224.46	0.5757	0.01702	0.2 0.02169
21	235.37	0.5757	0.01708	0.2165 0.02365
22	248.07	0.5765	0.01715	0.2347 0.02562
23	257.17	0.5765	0.01718	0.2457 0.02759
24	269.15	0.5757	0.01725	0.2583 0.02955
25	281.22	0.5765	0.01731	0.2725 0.03152
26	291.72	0.5765	0.01731	0.2835 0.03349
27	303.34	0.5765	0.01728	0.2945 0.03545
28	314.80	0.5765	0.01725	0.3047 0.03742
29	326.25	0.5765	0.01728	0.315 0.03939
30	336.63	0.5765	0.01725	0.3236 0.04136
31	348.20	0.5765	0.01725	0.3331 0.04332
32	355.22	0.5765	0.01712	0.3378 0.04529
33	369.84	0.5765	0.01712	0.3496 0.04726
34	383.49	0.5765	0.01712	0.3575 0.04922
35	390.13	0.5765	0.01708	0.363 0.05119
36	401.10	0.5765	0.01712	0.3685 0.05316
37	413.44	0.5765	0.01712	0.3764 0.05512
38	424.91	0.5765	0.01708	0.3835 0.05709
39	435.63	0.5765	0.01708	0.3882 0.05906
40	446.57	0.5765	0.01708	0.3937 0.06103
41	458.45	0.5773	0.01705	0.3992 0.06299
42	469.80	0.5765	0.01702	0.404 0.06501
43	480.89	0.5765	0.01702	0.4095 0.06697
44	489.17	0.5765	0.01699	0.4118 0.06894
45	502.01	0.5765	0.01699	0.4173 0.07091
46	515.62	0.5765	0.01692	0.4213 0.07288
47	524.65	0.5765	0.01692	0.4244 0.07484
48	534.65	0.5765	0.01692	0.4276 0.07681
49	544.05	0.5765	0.01686	0.4315 0.07878
50	559.07	0.5773	0.01686	0.437 0.08074
51	566.84	0.5765	0.01686	0.4394 0.08271
52	581.02	0.5765	0.01686	0.4441 0.08468
53	587.81	0.5765	0.01686	0.4465 0.08665
54	600.15	0.5765	0.0168	0.4488 0.08861
55	611.43	0.5765	0.0168	0.4473 0.09058
56	625.14	0.5765	0.0168	0.4473 0.09255
57	632.92	0.5765	0.0168	0.4465 0.09451
58	645.10	0.5765	0.01866	0.4433 0.09648
59	654.68	0.5757	0.01866	0.4465 0.09845
60	667.02	0.5765	0.01866	0.4496 0.1004
61	676.81	0.5765	0.01866	0.452 0.1024
62	688.35	0.5765	0.01869	0.4544 0.1043
63	699.53	0.5765	0.01873	0.4551 0.1063
64	710.05	0.5757	0.01879	0.4575 0.1083
65	722.17	0.5765	0.01882	0.4599 0.1102
66	729.20	0.5765	0.01885	0.4607 0.1122
67	743.41	0.5757	0.01908	0.4607 0.1142
68	755.41	0.5765	0.01921	0.467 0.1162
69	766.28	0.5765	0.01924	0.4693 0.1181
70	777.17	0.5765	0.01927	0.4725 0.1201
71	791.79	0.5765	0.01934	0.4748 0.1221
72	798.79	0.5757	0.01934	0.4748 0.124
73	810.65	0.5765	0.0194	0.4725 0.126
74	824.71	0.5765	0.0195	0.4654 0.128
75	832.63	0.5765	0.01953	0.4583 0.13
76	847.68	0.5757	0.01969	0.4504 0.1319
77	856.40	0.5765	0.01992	0.4481 0.1339
78	863.30	0.5765	0.02008	0.4473 0.1359
79	875.69	0.5765	0.02027	0.4481 0.1378
80	883.99	0.5765	0.02037	0.4488 0.1398
81	896.50	0.5765	0.02025	0.4504 0.1418
82	908.95	0.5765	0.02053	0.4512 0.1437
83	918.89	0.5765	0.02059	0.4528 0.1457
84	927.78	0.5765	0.02069	0.4528 0.1477
85	938.22	0.5765	0.02078	0.4544 0.1496
86	953.42	0.5757	0.02078	0.4567 0.1516

87	962.44	0.5765	0.02085	0.4591	0.1536
88	974.07	0.5765	0.02088	0.4614	0.1555
89	984.39	0.5765	0.02095	0.4638	0.1575
90	995.98	0.5765	0.02095	0.4662	0.1595
91	1007.34	0.5765	0.02107	0.4685	0.1614
92	1019.25	0.5765	0.02117	0.4709	0.1634
93	1029.63	0.5765	0.02124	0.4725	0.1654
94	1040.35	0.5773	0.02133	0.4756	0.1673
95	1052.83	0.5765	0.02136	0.478	0.1693
96	1062.41	0.5765	0.0214	0.4788	0.1713
97	1072.61	0.5765	0.02143	0.4803	0.1732
98	1081.56	0.5757	0.02146	0.4819	0.1752
99	1095.82	0.5765	0.02156	0.4835	0.1772
100	1101.22	0.5765	0.02159	0.4843	0.1791
101	1117.49	0.5773	0.02169	0.4866	0.1811
102	1127.49	0.5765	0.02175	0.4882	0.1831
103	1138.63	0.5765	0.02181	0.489	0.185
104	1149.41	0.5765	0.02188	0.489	0.187
105	1159.57	0.5765	0.02194	0.4898	0.189
106	1171.55	0.5765	0.02201	0.4898	0.1909
107	1184.00	0.5765	0.02204	0.489	0.193
108	1193.54	0.5765	0.02207	0.4882	0.1949
109	1205.01	0.5765	0.02217	0.4874	0.1969
110	1214.66	0.5765	0.0222	0.4874	0.1989
111	1227.20	0.5765	0.0222	0.4874	0.2008
112	1235.55	0.5765	0.02226	0.4874	0.2028
113	1246.53	0.5765	0.0223	0.4874	0.2048
114	1260.76	0.5765	0.02233	0.4874	0.2067
115	1267.63	0.5765	0.02239	0.4882	0.2087
116	1280.74	0.5765	0.02239	0.4882	0.2107
117	1293.51	0.5765	0.02246	0.4882	0.2126
118	1304.28	0.5765	0.02249	0.489	0.2146
119	1313.00	0.5765	0.02246	0.489	0.2166
120	1328.12	0.5757	0.02249	0.4906	0.2185
121	1334.85	0.5765	0.02252	0.4914	0.2205
122	1346.11	0.5765	0.02255	0.4922	0.2225
123	1359.60	0.5765	0.02259	0.4929	0.2244
124	1370.06	0.5757	0.02265	0.4945	0.2264
125	1378.42	0.5765	0.02265	0.4961	0.2284
126	1388.19	0.5765	0.02268	0.4969	0.2303
127	1402.13	0.5765	0.02275	0.4985	0.2323
128	1410.11	0.5765	0.02281	0.4992	0.2343
129	1422.73	0.5765	0.02284	0.5	0.2362
130	1435.79	0.5765	0.0231	0.5	0.2382
131	1444.45	0.5765	0.0231	0.4992	0.2402
132	1456.28	0.5757	0.02355	0.4929	0.2421
133	1467.04	0.5757	0.02426	0.4803	0.2441
134	1476.54	0.5765	0.02481	0.4843	0.2461
135	1490.30	0.5757	0.02529	0.4906	0.248
136	1502.47	0.5765	0.02551	0.4945	0.25
137	1508.72	0.5765	0.02548	0.4969	0.252
138	1522.37	0.5765	0.02558	0.5008	0.2539
139	1534.03	0.5765	0.02558	0.504	0.256
140	1546.10	0.5765	0.02555	0.5055	0.2579
141	1552.70	0.5765	0.02558	0.5071	0.2599
142	1565.75	0.5765	0.02574	0.5095	0.2619
143	1577.11	0.5765	0.02587	0.5111	0.2638
144	1589.46	0.5765	0.02593	0.5126	0.2658
145	1600.23	0.5765	0.02603	0.5142	0.2678
146	1608.05	0.5765	0.02606	0.5142	0.2697
147	1619.71	0.5765	0.02616	0.5158	0.2717
148	1634.44	0.5765	0.02638	0.5166	0.2737
149	1642.14	0.5765	0.02651	0.5181	0.2756
150	1654.19	0.5765	0.02664	0.5181	0.2776
151	1666.00	0.5765	0.02677	0.5205	0.2796
152	1676.23	0.5765	0.02693	0.5213	0.2815
153	1684.98	0.5765	0.02725	0.5213	0.2835
154	1694.81	0.5765	0.02735	0.5237	0.2843

DIRECT SHEAR TEST REPORT



Symbol	\odot			
Test No.	102BOST2A			
Sample No.	OST-2			
Shape	Circular			
Initial	Dimension, in	2.5		
	Area, in ²	4.9087		
	Height, in	1.1264		
	Water Content, %	121.17		
	Dry Density, pcf	72.587		
	Saturation, %	281.22		
	Void Ratio	1.0039		
	Consol. Height, in	1.1154		
	Consol. Void Ratio	0.98438		
Final	Water Content, %	40.64		
	Dry Density, pcf	74.717		
	Saturation, %	100.00		
	Void Ratio	0.94678		
	Normal Stress, tsf	1.1523		
	Max. Shear Stress, tsf	0.88588		
	Ult. Shear Stress, tsf	0.79217		
	Time to Failure, min	1441.8		

Project: KINGSTON COAL	Disp. Rate, in/min	1.77		
Location: TN	Measured Specific Gravity	2.33		
Project No.: 60095742	Liquid Limit	NP		
Boring No.: 200 16 psi	Plastic Limit	NP		
Sample Type: REMOLDED	Plasticity Index	NP		
Description: FLYASH - DK GRAY - RECONSTITUTED FLY ASH FROM 200 SOIL BORINGS				
Remarks: TEST PERFORMED AS PER ASTM D 3080				

DIRECT SHEAR TEST DATA

Project: KINGSTON COAL
 Boring No.: 200 16 psi
 Sample No.: OST-2
 Test No.: 102BOST2A

Location: TN
 Tested By: BCM
 Test Date: 02/09/09
 Sample Type: REMOLDED

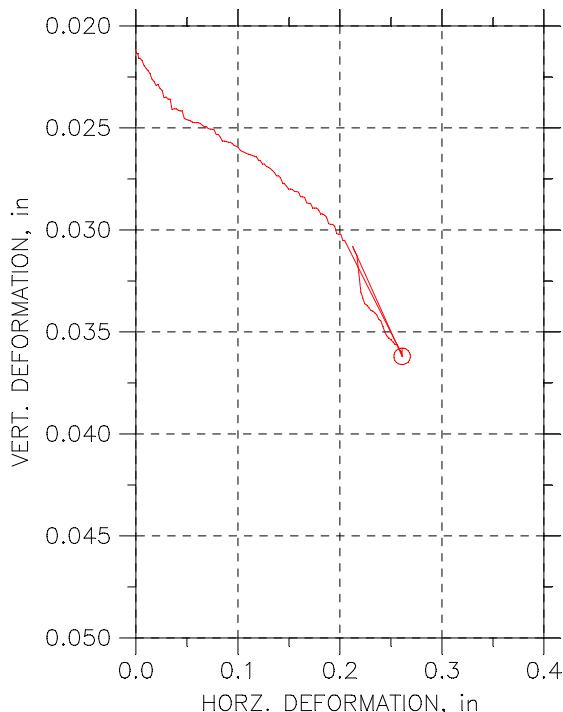
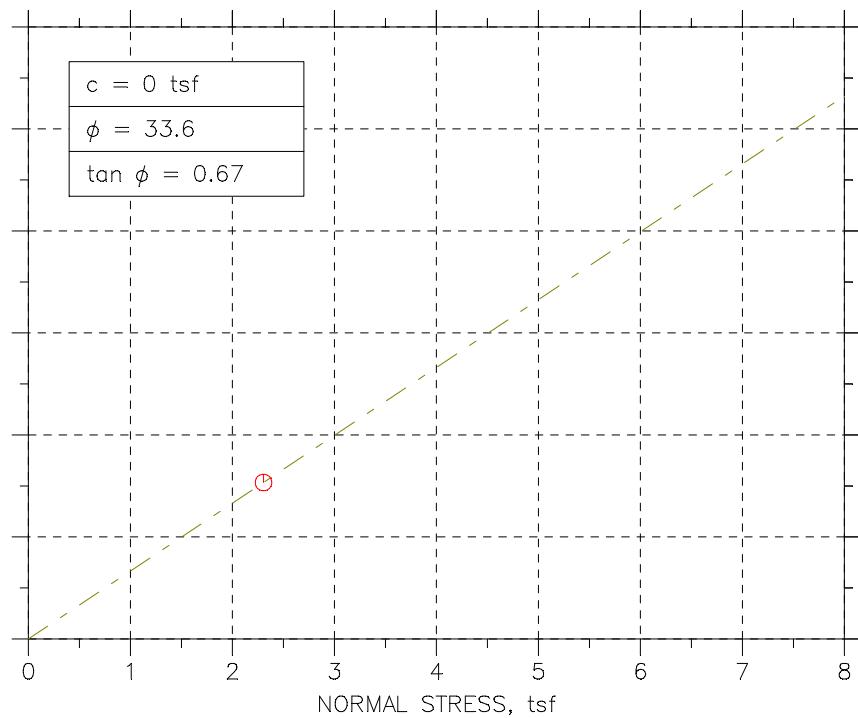
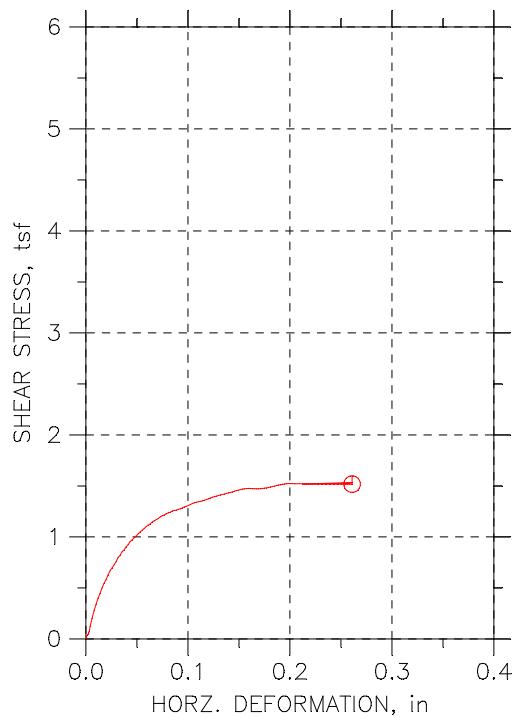
Project No.: 60095742
 Checked By: WPQ
 Depth: NA
 Elevation: NA

Soil Description: FLYASH - DK GRAY - RECONSTITUTED FLY ASH FROM 200 SOIL BORINGS
 Remarks: TEST PERFORMED AS PER ASTM D 3080

Elapsed Time min	Vertical Stress tsf	Vertical Displacement in	Horizontal Stress tsf	Horizontal Displacement in
1	0.00	1.151	0.0156	0
2	61.95	1.152	0.01599	0.02126 0.0004318
3	81.65	1.152	0.01599	0.04331 0.0008156
4	85.99	1.152	0.01599	0.04725 0.001199
5	88.05	1.152	0.01599	0.04803 0.001583
6	90.12	1.152	0.01602	0.04882 0.002015
7	92.73	1.152	0.01602	0.04882 0.002399
8	94.40	1.152	0.01606	0.04882 0.002783
9	96.20	1.152	0.01606	0.04882 0.003166
10	97.99	1.152	0.01609	0.04882 0.00355
11	100.99	1.152	0.01609	0.04961 0.003982
12	117.49	1.152	0.01673	0.04961 0.005949
13	129.50	1.152	0.0168	0.04961 0.007916
14	139.08	1.152	0.0168	0.04961 0.009883
15	157.71	1.151	0.01686	0.04961 0.01185
16	164.57	1.152	0.01686	0.04961 0.01382
17	174.78	1.152	0.01696	0.04961 0.01578
18	186.08	1.152	0.01708	0.063 0.01775
19	197.57	1.152	0.01728	0.1095 0.01972
20	210.83	1.152	0.01731	0.1496 0.02169
21	224.72	1.151	0.0176	0.1914 0.02365
22	231.77	1.151	0.0177	0.2102 0.02562
23	242.19	1.151	0.01782	0.2354 0.02759
24	255.27	1.152	0.01786	0.2638 0.02955
25	267.89	1.152	0.01792	0.289 0.03152
26	278.82	1.152	0.01792	0.3095 0.03349
27	290.85	1.152	0.01828	0.326 0.03545
28	300.84	1.152	0.01828	0.3457 0.03742
29	313.45	1.152	0.01828	0.367 0.03939
30	325.27	1.152	0.01828	0.3859 0.04136
31	335.51	1.152	0.01828	0.4 0.04332
32	347.41	1.152	0.01828	0.4166 0.04529
33	357.32	1.152	0.01834	0.4292 0.04726
34	369.05	1.152	0.01918	0.4394 0.04922
35	378.21	1.152	0.01918	0.4528 0.05119
36	389.97	1.152	0.01921	0.4677 0.05316
37	401.11	1.151	0.01914	0.4803 0.05512
38	410.95	1.152	0.01918	0.4914 0.05709
39	419.53	1.151	0.01918	0.4992 0.05906
40	434.07	1.152	0.01927	0.5126 0.06103
41	444.87	1.152	0.02017	0.5158 0.06299
42	454.67	1.152	0.02021	0.5276 0.06501
43	464.87	1.152	0.02021	0.5378 0.06697
44	475.27	1.152	0.02037	0.5457 0.06894
45	486.79	1.152	0.0204	0.5552 0.07091
46	499.08	1.152	0.02046	0.5638 0.07288
47	508.11	1.152	0.02046	0.5701 0.07484
48	519.32	1.152	0.0205	0.578 0.07681
49	529.00	1.152	0.02053	0.5827 0.07878
50	541.35	1.152	0.02056	0.5898 0.08074
51	549.57	1.152	0.02175	0.589 0.08271
52	561.07	1.152	0.02175	0.5992 0.08468
53	574.57	1.152	0.02159	0.6079 0.08665
54	582.43	1.152	0.02159	0.6126 0.08861
55	594.78	1.152	0.02165	0.6205 0.09058
56	605.84	1.151	0.02172	0.626 0.09255
57	617.63	1.151	0.02175	0.6307 0.09451
58	624.21	1.152	0.02178	0.6339 0.09648
59	639.95	1.152	0.02181	0.6402 0.09845
60	648.11	1.152	0.02185	0.6441 0.1004
61	657.69	1.151	0.02188	0.6496 0.1024
62	670.97	1.152	0.02191	0.6552 0.1043
63	683.56	1.151	0.02201	0.6591 0.1063
64	691.43	1.152	0.0221	0.663 0.1083
65	702.79	1.151	0.02217	0.667 0.1102
66	714.52	1.152	0.02223	0.6717 0.1122
67	724.89	1.151	0.02223	0.6764 0.1142
68	733.06	1.152	0.02236	0.6796 0.1162
69	750.60	1.152	0.02243	0.6867 0.1181
70	757.58	1.152	0.02249	0.6898 0.1201
71	770.00	1.152	0.02255	0.6945 0.1221
72	782.00	1.152	0.02259	0.7008 0.124
73	791.44	1.152	0.02268	0.7048 0.126
74	803.64	1.151	0.02275	0.7103 0.128
75	817.31	1.152	0.02288	0.7166 0.13
76	824.01	1.152	0.02297	0.7189 0.1319
77	834.19	1.152	0.02313	0.7229 0.1339
78	847.34	1.152	0.02371	0.7268 0.1359
79	858.76	1.151	0.02375	0.7308 0.1378
80	865.51	1.152	0.02378	0.7339 0.1398
81	879.81	1.152	0.02381	0.7394 0.1418
82	890.31	1.152	0.02387	0.7426 0.1437
83	898.18	1.152	0.02387	0.7449 0.1457
84	912.77	1.151	0.02397	0.7504 0.1477
85	921.29	1.152	0.02403	0.7536 0.1496
86	931.47	1.151	0.0241	0.7567 0.1516

87	945.66	1.152	0.02426	0.7623	0.1536
88	954.70	1.151	0.02432	0.7662	0.1555
89	964.95	1.152	0.02442	0.7693	0.1575
90	975.46	1.151	0.02455	0.7741	0.1595
91	989.81	1.152	0.02471	0.7778	0.1614
92	996.70	1.152	0.02477	0.7796	0.1634
93	1011.89	1.151	0.02494	0.7835	0.1654
94	1021.11	1.152	0.02506	0.7843	0.1673
95	1030.93	1.152	0.02513	0.7859	0.1693
96	1040.29	1.152	0.02526	0.7898	0.1713
97	1052.59	1.152	0.02548	0.7937	0.1732
98	1064.05	1.152	0.02558	0.7993	0.1752
99	1074.74	1.152	0.02571	0.8048	0.1772
100	1083.86	1.152	0.0258	0.8103	0.1791
101	1094.72	1.152	0.02593	0.815	0.1811
102	1106.69	1.152	0.02603	0.8213	0.1831
103	1113.83	1.152	0.02616	0.8245	0.185
104	1127.29	1.152	0.02625	0.8315	0.187
105	1139.26	1.152	0.02648	0.8378	0.189
106	1149.03	1.152	0.02654	0.841	0.1909
107	1158.97	1.152	0.02677	0.8457	0.193
108	1171.89	1.152	0.02696	0.8489	0.1949
109	1183.06	1.151	0.02699	0.8528	0.1969
110	1195.84	1.152	0.02712	0.8556	0.1989
111	1200.20	1.152	0.02712	0.8567	0.2008
112	1214.88	1.152	0.02719	0.8607	0.2028
113	1226.08	1.152	0.02725	0.8615	0.2048
114	1233.55	1.152	0.02728	0.863	0.2067
115	1244.40	1.152	0.02728	0.863	0.2087
116	1257.88	1.152	0.02738	0.8646	0.2107
117	1269.95	1.152	0.02745	0.8646	0.2126
118	1280.28	1.152	0.02751	0.8662	0.2146
119	1292.06	1.152	0.02761	0.8678	0.2166
120	1301.08	1.152	0.02764	0.8693	0.2185
121	1312.25	1.151	0.0277	0.8709	0.2205
122	1320.75	1.151	0.02773	0.8725	0.2225
123	1334.69	1.152	0.0277	0.8741	0.2244
124	1343.25	1.152	0.02773	0.8756	0.2264
125	1355.92	1.152	0.02783	0.8772	0.2284
126	1369.13	1.152	0.0279	0.8788	0.2303
127	1377.93	1.152	0.02799	0.8804	0.2323
128	1389.10	1.152	0.02799	0.8819	0.2343
129	1399.31	1.152	0.02799	0.8827	0.2362
130	1410.44	1.152	0.02806	0.8843	0.2382
131	1418.66	1.152	0.02809	0.8851	0.2402
132	1433.49	1.152	0.02822	0.8859	0.2421
133	1441.81	1.152	0.02825	0.8859	0.2441
134	1452.95	1.151	0.02854	0.8835	0.2461
135	1465.58	1.152	0.02851	0.8812	0.248
136	1473.90	1.152	0.02854	0.8804	0.25
137	1487.33	1.151	0.02915	0.8315	0.252
138	1495.95	1.15	0.03124	0.7662	0.2539
139	1504.74	1.151	0.03208	0.7882	0.256
140	1506.08	1.151	0.03211	0.7922	0.2562

DIRECT SHEAR TEST REPORT



Symbol	Ø			
Test No.	102BOST2A			
Sample No.	OST-2			
Shape	Circular			
Initial	Dimension, in	2.5		
	Area, in ²	4.9087		
	Height, in	1.1409		
	Water Content, %	46.10		
	Dry Density,pcf	82.931		
	Saturation, %	142.48		
	Void Ratio	0.75395		
	Consol. Height, in	1.1224		
	Consol. Void Ratio	0.72541		
Final	Water Content, %	29.97		
	Dry Density, pcf	85.648		
	Saturation, %	100.00		
	Void Ratio	0.6983		
	Normal Stress, tsf	2.3045		
	Max. Shear Stress, tsf	1.5332		
	Ult. Shear Stress, tsf	1.5174		
	Time to Failure, min	1452.3		

Project: KINGSTON COAL

Location: TN

Project No.: 60095742

Boring No.: 200 32 psi

Sample Type: REMOLDED

Description: FLYASH - GRAY - RECONSTITUTED FLY ASH FROM 200 SOIL BORINGS

Remarks: TEST PERFORMED AS PER ASTM D 3080

DIRECT SHEAR TEST DATA

Project: KINGSTON COAL
 Boring No.: 200 32 psi
 Sample No.: OST-2
 Test No.: 102BOST2A

Location: TN
 Tested By: BCM
 Test Date: 02/09/09
 Sample Type: REMOLDED

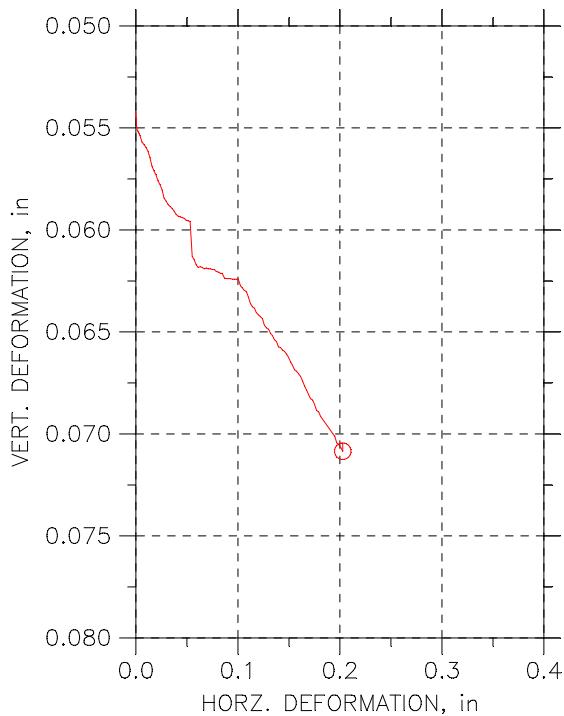
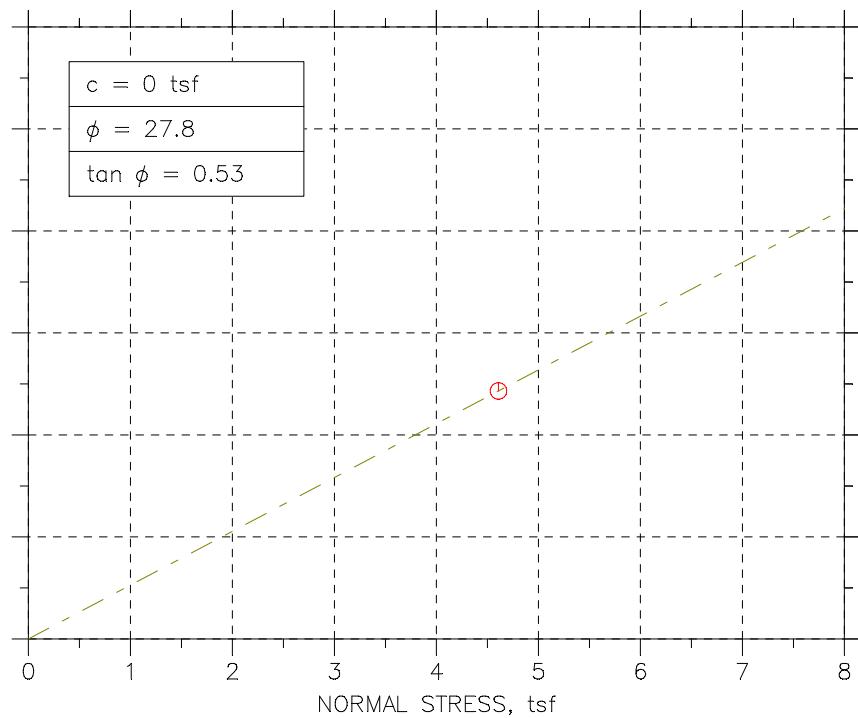
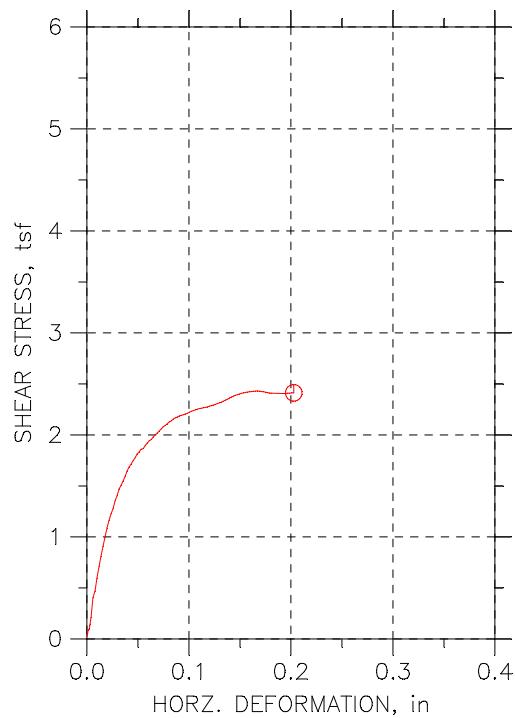
Project No.: 60095742
 Checked By: WPQ
 Depth: NA
 Elevation: NA

Soil Description: FLYASH - GRAY - RECONSTITUTED FLY ASH FROM 200 SOIL BORINGS
 Remarks: TEST PERFORMED AS PER ASTM D 3080

Elapsed Time min	Vertical Stress tsf	Vertical Displacement in	Horizontal Stress tsf	Horizontal Displacement in
1	0.00	2.303	0.02117	0
2	9.05	2.305	0.0213	0.01496 0.0004318
3	16.26	2.305	0.02133	0.03229 0.0008156
4	19.96	2.305	0.02136	0.03622 0.001199
5	23.67	2.305	0.02136	0.04173 0.001583
6	27.77	2.305	0.02136	0.0441 0.002015
7	32.03	2.305	0.02156	0.05118 0.002399
8	35.58	2.305	0.02159	0.05906 0.002783
9	38.53	2.304	0.02159	0.07245 0.003166
10	40.54	2.305	0.02159	0.08504 0.00355
11	45.21	2.305	0.02159	0.1197 0.003982
12	57.51	2.305	0.02169	0.1992 0.005949
13	71.28	2.304	0.02194	0.2764 0.007916
14	82.46	2.304	0.02207	0.3355 0.009883
15	95.37	2.305	0.0222	0.3977 0.01185
16	105.48	2.305	0.02233	0.4433 0.01382
17	118.64	2.305	0.02262	0.5 0.01578
18	129.51	2.304	0.02272	0.5441 0.01775
19	138.90	2.305	0.02291	0.5796 0.01972
20	151.57	2.305	0.02288	0.626 0.02169
21	163.75	2.305	0.02307	0.6678 0.02365
22	172.42	2.305	0.02317	0.6961 0.02562
23	181.92	2.305	0.02352	0.726 0.02759
24	192.33	2.305	0.02349	0.7575 0.02955
25	207.07	2.304	0.02358	0.7985 0.03152
26	215.13	2.305	0.02358	0.8197 0.03349
27	229.25	2.305	0.0241	0.8544 0.03545
28	236.09	2.304	0.02407	0.8717 0.03742
29	249.08	2.305	0.02407	0.9016 0.03939
30	259.24	2.305	0.02413	0.9229 0.04136
31	273.44	2.305	0.02416	0.9528 0.04332
32	282.07	2.305	0.02416	0.9701 0.04529
33	294.27	2.305	0.02452	0.9922 0.04726
34	303.19	2.305	0.02458	1.009 0.04922
35	315.71	2.305	0.02461	1.031 0.05119
36	325.49	2.305	0.02465	1.047 0.05316
37	336.65	2.305	0.02471	1.065 0.05512
38	346.65	2.305	0.02474	1.082 0.05709
39	358.89	2.305	0.02474	1.1 0.05906
40	369.07	2.305	0.02474	1.115 0.06103
41	378.03	2.305	0.02477	1.127 0.06299
42	392.87	2.305	0.02487	1.146 0.06501
43	401.94	2.305	0.02494	1.158 0.06697
44	413.62	2.305	0.02494	1.17 0.06894
45	423.27	2.304	0.02503	1.18 0.07091
46	437.46	2.305	0.02506	1.196 0.07288
47	447.02	2.305	0.02506	1.207 0.07484
48	454.83	2.305	0.0251	1.215 0.07681
49	469.22	2.305	0.02532	1.227 0.07878
50	479.58	2.305	0.02532	1.236 0.08074
51	487.27	2.305	0.02545	1.242 0.08271
52	504.06	2.305	0.02564	1.254 0.08468
53	511.17	2.305	0.02564	1.259 0.08665
54	520.06	2.305	0.02568	1.263 0.08861
55	531.36	2.305	0.02571	1.27 0.09058
56	539.95	2.305	0.02571	1.275 0.09255
57	553.06	2.305	0.02577	1.284 0.09451
58	564.88	2.304	0.02587	1.294 0.09648
59	573.28	2.305	0.0259	1.3 0.09845
60	581.87	2.305	0.02597	1.308 0.1004
61	593.01	2.305	0.02609	1.317 0.1024
62	606.76	2.305	0.02616	1.327 0.1043
63	615.57	2.305	0.02619	1.334 0.1063
64	626.11	2.305	0.02625	1.339 0.1083
65	637.65	2.305	0.02629	1.345 0.1102
66	649.14	2.305	0.02632	1.349 0.1122
67	659.22	2.305	0.02635	1.354 0.1142
68	670.17	2.305	0.02638	1.36 0.1162
69	678.79	2.305	0.02642	1.365 0.1181
70	690.58	2.305	0.02658	1.374 0.1201
71	700.71	2.305	0.02661	1.382 0.1221
72	713.57	2.305	0.02677	1.389 0.124
73	721.37	2.305	0.02677	1.395 0.126
74	732.44	2.305	0.0269	1.401 0.128
75	745.60	2.305	0.02693	1.407 0.13
76	753.09	2.305	0.02699	1.411 0.1319
77	763.70	2.305	0.02709	1.417 0.1339
78	775.64	2.304	0.02719	1.421 0.1359
79	787.17	2.305	0.02735	1.425 0.1378
80	797.02	2.305	0.02735	1.432 0.1398
81	806.40	2.305	0.02745	1.436 0.1418
82	817.64	2.305	0.0277	1.442 0.1437
83	828.14	2.304	0.02773	1.448 0.1457
84	840.69	2.305	0.02786	1.455 0.1477
85	849.86	2.305	0.02799	1.459 0.1496
86	861.06	2.305	0.02799	1.465 0.1516

87	870.76	2.305	0.02802	1.469	0.1536
88	882.14	2.305	0.02812	1.472	0.1555
89	891.17	2.305	0.02812	1.474	0.1575
90	902.33	2.305	0.02815	1.476	0.1595
91	915.66	2.305	0.02838	1.475	0.1614
92	923.33	2.305	0.02838	1.473	0.1634
93	935.16	2.305	0.02841	1.473	0.1654
94	947.36	2.305	0.02867	1.471	0.1673
95	958.26	2.305	0.0287	1.472	0.1693
96	965.19	2.305	0.0287	1.473	0.1713
97	980.04	2.305	0.02893	1.475	0.1732
98	988.56	2.305	0.02893	1.478	0.1752
99	997.59	2.305	0.02893	1.48	0.1772
100	1009.96	2.305	0.02902	1.485	0.1791
101	1021.25	2.305	0.02921	1.49	0.1811
102	1030.09	2.305	0.02921	1.494	0.1831
103	1041.33	2.305	0.02928	1.498	0.185
104	1051.68	2.305	0.02938	1.504	0.187
105	1063.34	2.305	0.0297	1.509	0.189
106	1070.95	2.305	0.02973	1.51	0.1909
107	1086.70	2.305	0.02973	1.517	0.193
108	1094.57	2.305	0.02983	1.519	0.1949
109	1105.15	2.305	0.03018	1.521	0.1969
110	1117.42	2.305	0.03021	1.522	0.1989
111	1128.62	2.305	0.03021	1.523	0.2008
112	1136.53	2.305	0.0305	1.523	0.2028
113	1148.79	2.305	0.03053	1.521	0.2048
114	1436.76	2.305	0.03581	1.522	0.2579
115	1449.68	2.304	0.03597	1.532	0.2599
116	1452.34	2.305	0.0362	1.533	0.2609
117	1190.59	2.304	0.03082	1.518	0.2126
118	1202.30	2.305	0.03105	1.517	0.2146
119	1209.81	2.305	0.03124	1.517	0.2166
120	1221.38	2.304	0.03208	1.517	0.2185
121	1232.18	2.305	0.03304	1.517	0.2205
122	1244.12	2.304	0.03333	1.517	0.2225
123	1255.11	2.305	0.03362	1.517	0.2244
124	1262.90	2.305	0.03369	1.517	0.2264
125	1273.47	2.305	0.03382	1.517	0.2284
126	1288.63	2.305	0.03394	1.517	0.2303
127	1296.56	2.305	0.03398	1.517	0.2323
128	1308.41	2.304	0.03407	1.517	0.2343
129	1317.18	2.305	0.03417	1.517	0.2362
130	1330.50	2.305	0.03439	1.517	0.2382
131	1338.08	2.304	0.03446	1.517	0.2402
132	1353.29	2.305	0.03475	1.517	0.2421
133	1362.30	2.305	0.03501	1.517	0.2441
134	1371.84	2.305	0.0352	1.517	0.2461
135	1380.86	2.305	0.0353	1.517	0.248
136	1396.34	2.305	0.03539	1.517	0.25
137	1406.04	2.305	0.03549	1.517	0.252
138	1416.97	2.305	0.03562	1.517	0.2539
139	1425.78	2.305	0.03562	1.517	0.256
140	1436.76	2.305	0.03581	1.517	0.2579
141	1449.68	2.304	0.03597	1.517	0.2599
142	1452.34	2.305	0.0362	1.517	0.2609

DIRECT SHEAR TEST REPORT



Symbol	∅			
Test No.	102BOST2A			
Sample No.	OST-2			
Shape	Circular			
Initial	Dimension, in	2.5		
	Area, in ²	4.9087		
	Height, in	1.1811		
	Water Content, %	78.69		
	Dry Density,pcf	53.027		
	Saturation, %	105.18		
	Void Ratio	1.7431		
	Consol. Height, in	1.1323		
	Consol. Void Ratio	1.6298		
Final	Water Content, %	67.74		
	Dry Density, pcf	56.41		
	Saturation, %	99.99		
	Void Ratio	1.5785		
	Normal Stress, tsf	4.6083		
	Max. Shear Stress, tsf	2.4309		
	Ult. Shear Stress, tsf	2.4127		
	Time to Failure, min	944.75		

Project: KINGSTON COAL	Disp. Rate, in/min	1.77		
Location: TN	Measured Specific Gravity	2.33		
Project No.: 60095742	Liquid Limit	NP		
Boring No.: 200 64 psi	Plastic Limit	NP		
Sample Type: REMOLDED	Plasticity Index	NP		
Description: FLYASH - GRAY - RECONSTITUTED FLY ASH FROM 200 SOIL BORINGS				
Remarks: TEST PERFORMED AS PER ASTM D 3080				

DIRECT SHEAR TEST DATA

Project: KINGSTON COAL
 Boring No.: 200 64 psi
 Sample No.: OST-2
 Test No.: 102BOST2A

Location: TN
 Tested By: BCM
 Test Date: 02/09/09
 Sample Type: REMOLDED

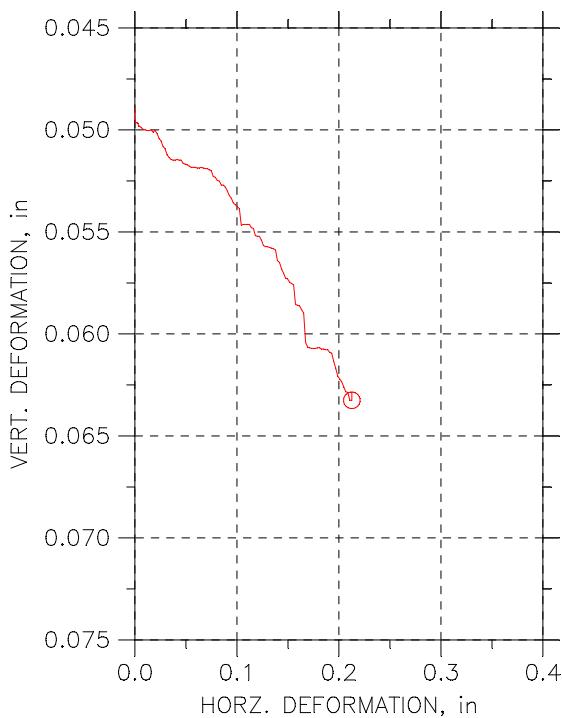
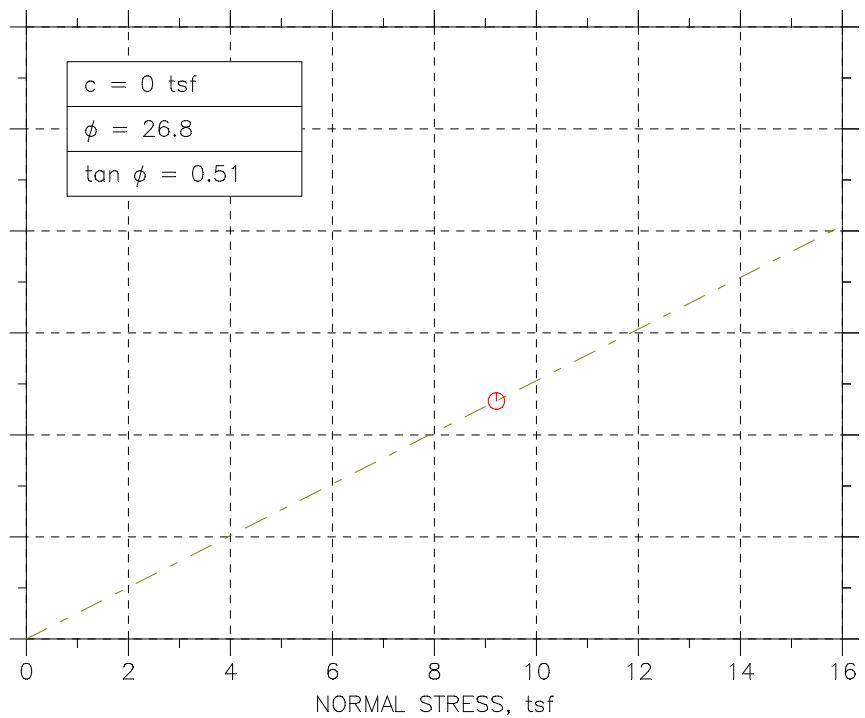
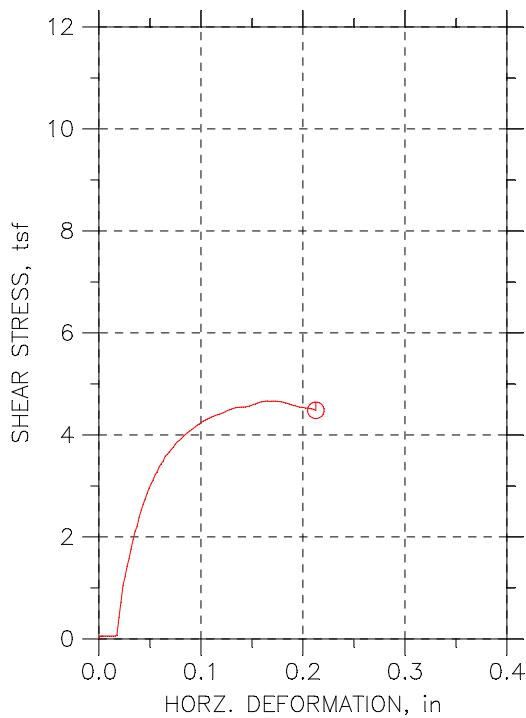
Project No.: 60095742
 Checked By: WPQ
 Depth: NA
 Elevation: NA

Soil Description: FLYASH - GRAY - RECONSTITUTED FLY ASH FROM 200 SOIL BORINGS
 Remarks: TEST PERFORMED AS PER ASTM D 3080

	Elapsed Time min	Vertical Stress tsf	Vertical Displacement in	Horizontal Stress tsf	Horizontal Displacement in
1	0.00	4.607	0.05421	0	0
2	2.62	4.608	0.05486	0.03937	0.0004318
3	4.20	4.609	0.05495	0.0567	0.0008156
4	7.62	4.608	0.05512	0.08426	0.001199
5	9.10	4.609	0.05512	0.08819	0.001583
6	10.86	4.608	0.05518	0.09449	0.002015
7	12.49	4.609	0.05521	0.1024	0.002399
8	16.67	4.608	0.05524	0.1299	0.002783
9	18.27	4.609	0.05528	0.1433	0.003166
10	22.12	4.609	0.05534	0.1811	0.00355
11	25.17	4.609	0.05537	0.2118	0.003982
12	44.71	4.609	0.05569	0.404	0.005949
13	51.51	4.608	0.05582	0.4701	0.007916
14	64.40	4.608	0.05595	0.5969	0.009883
15	76.38	4.608	0.05615	0.7087	0.01185
16	88.18	4.609	0.05647	0.8111	0.01382
17	99.97	4.609	0.05689	0.9071	0.01578
18	111.77	4.609	0.05711	0.9961	0.01775
19	124.51	4.609	0.0573	1.087	0.01972
20	135.50	4.609	0.05759	1.161	0.02169
21	145.98	4.609	0.05779	1.226	0.02365
22	154.91	4.609	0.05804	1.278	0.02562
23	168.85	4.608	0.05843	1.353	0.02759
24	178.96	4.609	0.05859	1.404	0.02955
25	192.67	4.609	0.05875	1.469	0.03152
26	201.01	4.609	0.05885	1.506	0.03349
27	210.53	4.609	0.05894	1.547	0.03545
28	221.95	4.609	0.05907	1.593	0.03742
29	235.90	4.609	0.05923	1.646	0.03939
30	247.51	4.609	0.05933	1.685	0.04136
31	256.37	4.608	0.05936	1.713	0.04332
32	267.79	4.608	0.05939	1.747	0.04529
33	278.57	4.609	0.05943	1.776	0.04726
34	293.39	4.608	0.05952	1.813	0.04922
35	301.84	4.609	0.05956	1.834	0.05119
36	313.22	4.609	0.05959	1.861	0.05316
37	322.59	4.609	0.06129	1.865	0.05512
38	334.22	4.609	0.06145	1.895	0.05709
39	346.25	4.609	0.06171	1.92	0.05906
40	357.46	4.609	0.06184	1.941	0.06103
41	364.69	4.609	0.06181	1.954	0.06299
42	378.31	4.609	0.06184	1.98	0.06501
43	390.55	4.609	0.0619	2.002	0.06697
44	400.32	4.609	0.06187	2.019	0.06894
45	410.81	4.609	0.0619	2.037	0.07091
46	423.64	4.609	0.0619	2.06	0.07288
47	434.98	4.609	0.06194	2.079	0.07484
48	444.99	4.609	0.06194	2.093	0.07681
49	455.15	4.608	0.06203	2.108	0.07878
50	468.45	4.608	0.06207	2.128	0.08074
51	475.93	4.608	0.06213	2.138	0.08271
52	489.95	4.608	0.06213	2.155	0.08468
53	501.11	4.609	0.06235	2.167	0.08665
54	508.32	4.609	0.06239	2.175	0.08861
55	523.74	4.609	0.06239	2.186	0.09058
56	533.12	4.608	0.06239	2.193	0.09255
57	541.97	4.609	0.06242	2.198	0.09451
58	553.29	4.609	0.06242	2.205	0.09648
59	561.74	4.609	0.06242	2.211	0.09845
60	576.03	4.609	0.06242	2.222	0.1004
61	585.40	4.611	0.06274	2.232	0.1025
62	596.35	4.609	0.06284	2.239	0.1043
63	606.78	4.609	0.06297	2.246	0.1063
64	617.51	4.609	0.06303	2.253	0.1083
65	631.00	4.609	0.06329	2.258	0.1102
66	640.92	4.609	0.06361	2.262	0.1122
67	653.36	4.609	0.06377	2.265	0.1142
68	661.94	4.608	0.06383	2.269	0.1162
69	672.83	4.609	0.06406	2.274	0.1181
70	683.15	4.608	0.06416	2.281	0.1201
71	694.91	4.609	0.06425	2.287	0.1221
72	703.55	4.609	0.06435	2.292	0.124
73	716.18	4.609	0.06467	2.299	0.126
74	728.56	4.608	0.0648	2.306	0.128
75	737.89	4.609	0.06486	2.315	0.13
76	748.01	4.609	0.06506	2.321	0.1319
77	757.60	4.609	0.06519	2.33	0.1339
78	771.29	4.609	0.06538	2.342	0.1359
79	777.88	4.609	0.06548	2.349	0.1378
80	793.69	4.609	0.06573	2.362	0.1398
81	803.39	4.609	0.06577	2.372	0.1418
82	815.07	4.608	0.06589	2.381	0.1437
83	824.60	4.609	0.06596	2.389	0.1457
84	834.60	4.609	0.06609	2.395	0.1477
85	848.18	4.609	0.06625	2.401	0.1496
86	857.87	4.609	0.06647	2.407	0.1516

87	870.01	4.609	0.06663	2.412	0.1536
88	880.86	4.609	0.06686	2.417	0.1555
89	889.87	4.608	0.06692	2.42	0.1575
90	902.18	4.609	0.06705	2.424	0.1595
91	911.41	4.609	0.06718	2.425	0.1614
92	923.06	4.608	0.06741	2.428	0.1634
93	935.54	4.609	0.06766	2.429	0.1654
94	944.75	4.608	0.06786	2.431	0.1673
95	957.37	4.609	0.06808	2.428	0.1693
96	969.58	4.608	0.06828	2.425	0.1713
97	980.87	4.609	0.06834	2.423	0.1732
98	989.15	4.609	0.06856	2.418	0.1752
99	1004.67	4.608	0.06885	2.414	0.1772
100	1010.77	4.609	0.06892	2.41	0.1791
101	1021.03	4.608	0.06914	2.409	0.1811
102	1086.44	4.609	0.06998	2.406	0.193
103	1094.62	4.609	0.07011	2.406	0.1949
104	1111.81	4.608	0.07043	2.41	0.1969
105	1118.64	4.609	0.07053	2.41	0.1989
106	1131.34	4.609	0.07069	2.412	0.2008
107	1143.08	4.608	0.07085	2.413	0.2028

DIRECT SHEAR TEST REPORT



Symbol	∅			
Test No.	102BOST2A			
Sample No.	OST-2			
Shape	Circular			
Initial	Dimension, in	2.5		
	Area, in ²	4.9087		
	Height, in	1.2161		
	Water Content, %	47.67		
	Dry Density, pcf	62.316		
	Saturation, %	83.25		
	Void Ratio	1.3342		
	Consol. Height, in	1.1758		
	Consol. Void Ratio	1.2568		
Final	Water Content, %	52.05		
	Dry Density, pcf	65.735		
	Saturation, %	100.00		
	Void Ratio	1.2128		
	Normal Stress, tsf	9.2158		
	Max. Shear Stress, tsf	4.6649		
	Ult. Shear Stress, tsf	4.483		
	Time to Failure, min	1040		

Project: KINGSTON COAL	Disp. Rate, in/min	0.00017717
Location: TN	Measured Specific Gravity	2.33
Project No.: 60095742	Liquid Limit	NP
Boring No.: 200 128 psi	Plastic Limit	NP
Sample Type: Remolded	Plasticity Index	NP
Description: FLYASH - GRAY - RECONSTITUTED FLY ASH FROM 200 SERIES SOIL BORINGS		
Remarks: TEST PERFORMED AS PER ASTM D 3080		

DIRECT SHEAR TEST DATA

Project: KINGSTON COAL
 Boring No.: 200 128 psi
 Sample No.: OST-2
 Test No.: 102BOST2A

Location: TN
 Tested By: BCM
 Test Date: 02/09/09
 Sample Type: Remolded

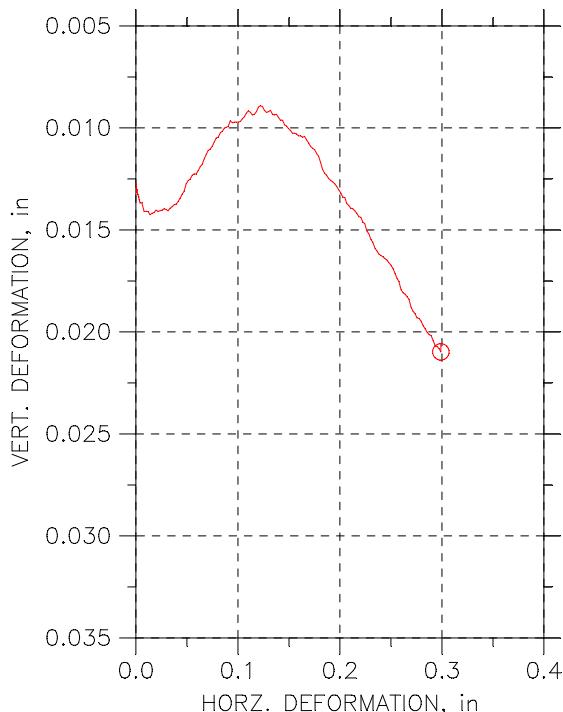
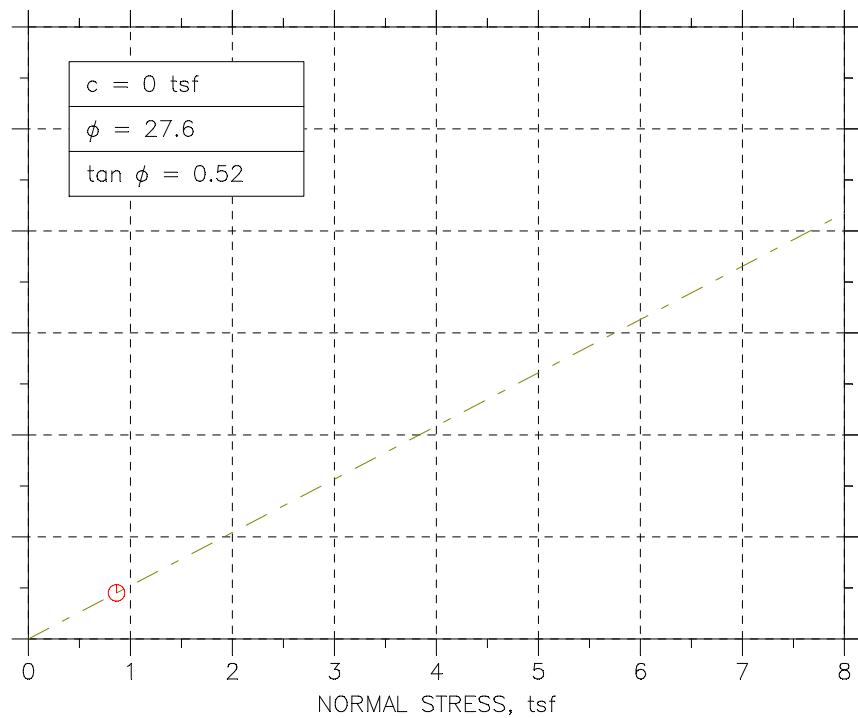
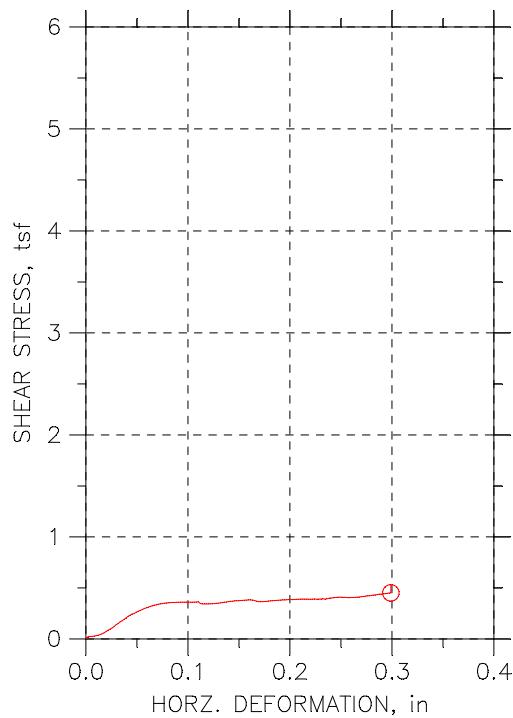
Project No.: 60095742
 Checked By: WPQ
 Depth: NA
 Elevation: NA

Soil Description: FLYASH - GRAY - RECONSTITUTED FLY ASH FROM 200 SERIES SOIL BORINGS
 Remarks: TEST PERFORMED AS PER ASTM D 3080

	Elapsed Time min	Vertical Stress tsf	Vertical Displacement in	Horizontal Stress tsf	Horizontal Displacement in
1	0.00	9.214	0.04894	0	0
2	66.82	9.218	0.04965	0.03307	0.0004318
3	75.06	9.218	0.04965	0.0441	0.0008156
4	82.51	9.217	0.04965	0.05276	0.001199
5	87.82	9.218	0.04965	0.05276	0.001583
6	90.70	9.218	0.04965	0.05433	0.002015
7	92.74	9.217	0.04968	0.05433	0.002399
8	96.27	9.217	0.04968	0.05433	0.002783
9	99.82	9.213	0.04968	0.05433	0.003166
10	102.34	9.22	0.04981	0.05433	0.00355
11	104.96	9.218	0.04981	0.05433	0.003982
12	119.73	9.218	0.04987	0.05512	0.005949
13	127.83	9.22	0.04997	0.05512	0.007916
14	138.08	9.215	0.05	0.05433	0.009883
15	149.33	9.213	0.05003	0.05433	0.01185
16	164.76	9.219	0.05003	0.05433	0.01382
17	176.02	9.212	0.05	0.05433	0.01578
18	185.06	9.213	0.0501	0.07638	0.01775
19	200.37	9.216	0.05003	0.4276	0.01972
20	213.96	9.216	0.05016	0.7252	0.02169
21	231.20	9.216	0.05042	1.054	0.02365
22	240.89	9.215	0.05055	1.223	0.02562
23	252.85	9.215	0.0508	1.42	0.02759
24	263.24	9.216	0.05093	1.576	0.02955
25	276.08	9.216	0.05122	1.762	0.03152
26	289.73	9.216	0.05135	1.947	0.03349
27	302.16	9.216	0.05145	2.106	0.03545
28	310.13	9.215	0.05148	2.204	0.03742
29	325.06	9.216	0.05148	2.38	0.03939
30	337.26	9.216	0.05145	2.516	0.04136
31	348.35	9.216	0.05148	2.63	0.04332
32	359.61	9.216	0.05148	2.741	0.04529
33	372.73	9.215	0.05164	2.857	0.04726
34	384.79	9.216	0.05167	2.957	0.04922
35	395.87	9.216	0.0517	3.044	0.05119
36	405.31	9.216	0.05177	3.116	0.05316
37	419.83	9.216	0.05183	3.221	0.05512
38	427.58	9.216	0.05183	3.274	0.05709
39	443.22	9.216	0.05183	3.374	0.05906
40	453.38	9.216	0.05187	3.432	0.06103
41	462.01	9.216	0.05187	3.485	0.06299
42	480.93	9.216	0.05183	3.586	0.06501
43	487.07	9.216	0.05187	3.617	0.06697
44	497.29	9.216	0.0519	3.666	0.06894
45	507.72	9.216	0.0519	3.715	0.07091
46	517.99	9.216	0.05196	3.758	0.07288
47	531.91	9.216	0.05199	3.816	0.07484
48	544.83	9.216	0.05228	3.863	0.07681
49	552.06	9.216	0.05232	3.891	0.07878
50	563.06	9.215	0.05248	3.928	0.08074
51	575.97	9.216	0.05251	3.97	0.08271
52	587.31	9.216	0.0527	4.006	0.08468
53	598.97	9.215	0.0527	4.041	0.08665
54	610.29	9.215	0.0528	4.072	0.08861
55	620.67	9.216	0.05299	4.099	0.09058
56	632.02	9.216	0.05322	4.125	0.09255
57	644.86	9.217	0.05335	4.16	0.09451
58	655.76	9.216	0.05357	4.189	0.09648
59	666.61	9.215	0.05367	4.217	0.09845
60	676.91	9.216	0.05376	4.244	0.1004
61	688.48	9.216	0.05386	4.272	0.1024
62	697.95	9.216	0.05467	4.292	0.1043
63	708.62	9.216	0.05463	4.312	0.1063
64	718.70	9.216	0.05463	4.33	0.1083
65	731.14	9.216	0.05463	4.351	0.1102
66	739.73	9.216	0.05463	4.362	0.1122
67	753.68	9.216	0.05479	4.381	0.1142
68	764.42	9.215	0.05483	4.394	0.1162
69	774.28	9.216	0.05518	4.407	0.1181
70	784.62	9.216	0.05521	4.421	0.1201
71	795.68	9.216	0.05521	4.436	0.1221
72	807.06	9.216	0.05541	4.455	0.124
73	820.03	9.216	0.05566	4.478	0.126
74	829.90	9.216	0.05573	4.493	0.128
75	840.82	9.216	0.05573	4.509	0.13
76	850.90	9.216	0.05576	4.521	0.1319
77	863.86	9.215	0.05579	4.532	0.1339
78	873.93	9.216	0.05582	4.538	0.1359
79	883.56	9.215	0.05589	4.54	0.1378
80	898.16	9.216	0.0564	4.544	0.1398
81	905.20	9.216	0.0565	4.546	0.1418
82	919.61	9.216	0.05682	4.548	0.1437
83	931.27	9.215	0.05701	4.557	0.1457
84	941.84	9.216	0.05727	4.568	0.1477
85	950.77	9.215	0.0573	4.578	0.1496
86	966.03	9.216	0.05746	4.597	0.1516

87	972.97	9.216	0.05753	4.608	0.1536
88	984.39	9.216	0.05759	4.625	0.1555
89	998.43	9.216	0.05856	4.639	0.1575
90	1009.14	9.216	0.05859	4.649	0.1595
91	1017.14	9.216	0.05862	4.655	0.1614
92	1025.63	9.216	0.05882	4.66	0.1634
93	1040.03	9.216	0.05898	4.665	0.1654
94	1048.23	9.216	0.06042	4.654	0.1673
95	1060.35	9.216	0.06065	4.661	0.1693
96	1073.07	9.216	0.06068	4.662	0.1713
97	1081.02	9.216	0.06071	4.661	0.1732
98	1092.97	9.215	0.06071	4.659	0.1752
99	1103.50	9.216	0.06071	4.654	0.1772
100	1113.40	9.215	0.06068	4.648	0.1791
101	1126.92	9.216	0.06068	4.639	0.1811
102	1139.07	9.216	0.06075	4.626	0.1831
103	1144.80	9.215	0.06075	4.616	0.185
104	1155.49	9.216	0.06078	4.605	0.187
105	1168.99	9.216	0.06078	4.59	0.189
106	1181.34	9.215	0.06091	4.573	0.1909
107	1186.91	9.216	0.06094	4.57	0.193
108	1200.77	9.215	0.06136	4.555	0.1949
109	1211.81	9.216	0.06168	4.546	0.1969
110	1221.55	9.216	0.06207	4.54	0.1989
111	1234.32	9.216	0.06223	4.535	0.2008
112	1243.61	9.216	0.06235	4.526	0.2028
113	1254.21	9.215	0.06261	4.526	0.2048
114	1269.54	9.216	0.06284	4.518	0.2067
115	1277.33	9.215	0.06287	4.512	0.2087
116	1289.47	9.215	0.06326	4.501	0.2107
117	1298.12	9.216	0.06326	4.483	0.2126

DIRECT SHEAR TEST REPORT



Symbol	∅			
Test No.	102BOST2A			
Sample No.	OST-2			
Shape	Circular			
Initial	Dimension, in	2.5		
	Area, in ²	4.9087		
	Height, in	0.81181		
	Water Content, %	30.21		
	Dry Density,pcf	85.102		
	Saturation, %	100.47		
	Void Ratio	0.69453		
	Consol. Height, in	0.80213		
	Consol. Void Ratio	0.67432		
Final	Water Content, %	28.17		
	Dry Density,pcf	87.36		
	Saturation, %	100.01		
	Void Ratio	0.65075		
	Normal Stress, tsf	0.8644		
	Max. Shear Stress, tsf	0.45121		
	Ult. Shear Stress, tsf	0.45121		
	Time to Failure, min	1655.1		

Project: KINGSTON COAL TVA	Disp. Rate, in/min	0.000177
Location: TN	Measured Specific Gravity	2.31
Project No.: 60095742	Liquid Limit	NP
Boring No.: 09-102B ST2	Plastic Limit	NP
Sample Type: 3" OST	Plasticity Index	NP
Description: FLYASH - DARK GRAY		
Remarks: TEST PERFORMED AS PER ASTM D 3080. SPECIMEN WAS EXTRACTED FROM THE VERY TOP OF BORING.		

DIRECT SHEAR TEST DATA

Project: KINGSTON COAL TVA
 Boring No.: 09-102B ST2
 Sample No.: OST-2
 Test No.: 102BOST2A

Location: TN
 Tested By: BCM
 Test Date: 02/09/09
 Sample Type: 3" OST

Project No.: 60095742
 Checked By: WPQ
 Depth: 29.5'-32.0'
 Elevation:

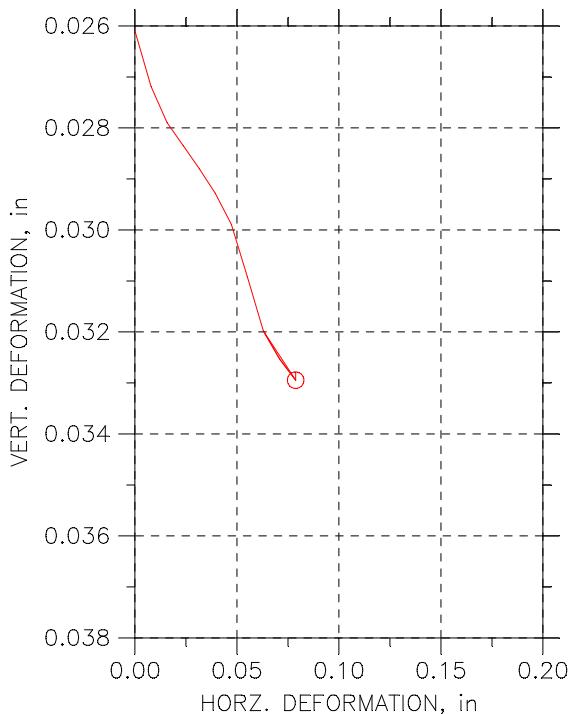
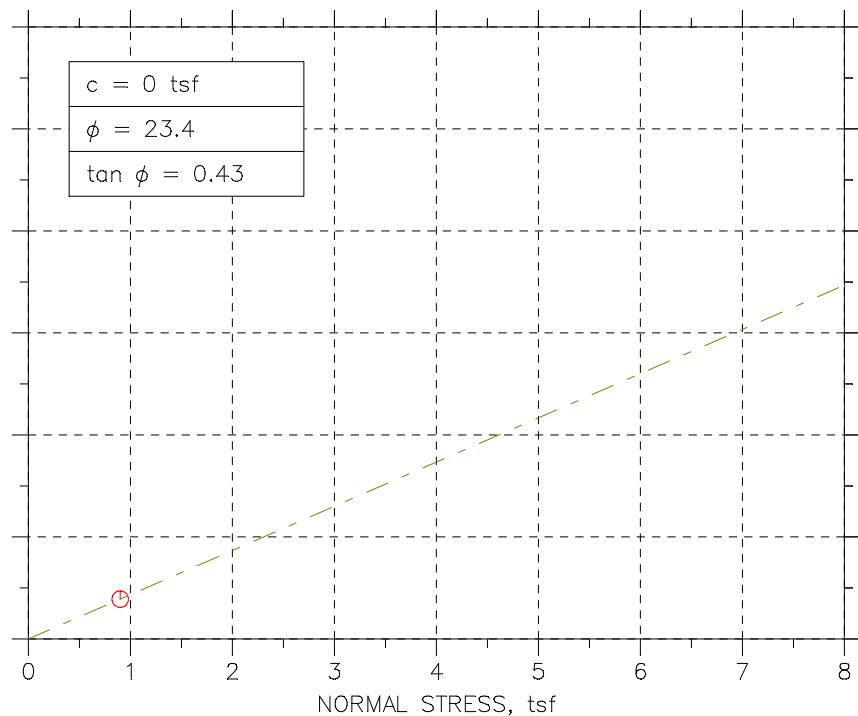
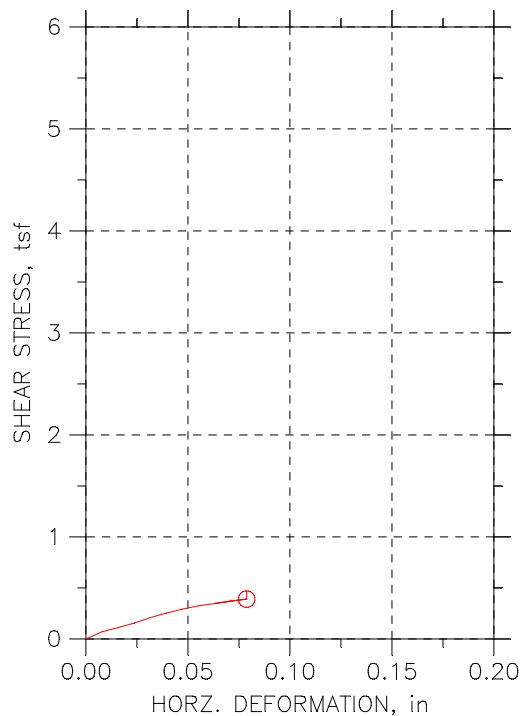
Soil Description: FLYASH - DARK GRAY

Remarks: TEST PERFORMED AS PER ASTM D 3080. SPECIMEN WAS EXTRACTED FROM THE VERY TOP OF BORING.

Elapsed Time min	Vertical Stress tsf	Vertical Displacement in	Horizontal Stress tsf	Horizontal Displacement in
1	0.00	0.8644	0.01271	0
2	3.34	0.8644	0.0129	0.0007087
3	7.62	0.8644	0.01316	0.0126
4	9.97	0.8636	0.01303	0.01575
5	11.98	0.8644	0.01326	0.01654
6	15.80	0.8644	0.01326	0.0189
7	18.57	0.8644	0.01338	0.02047
8	21.87	0.8644	0.01335	0.02205
9	25.39	0.8644	0.01351	0.02362
10	27.43	0.8644	0.01358	0.02362
11	29.77	0.8644	0.01367	0.02362
12	41.95	0.8644	0.01367	0.0252
13	54.58	0.8644	0.01409	0.02835
14	65.91	0.8644	0.01409	0.0315
15	76.58	0.8644	0.01409	0.03622
16	88.95	0.8644	0.01425	0.04173
17	101.08	0.8644	0.01419	0.0504
18	109.61	0.8644	0.01416	0.05985
19	122.91	0.8644	0.01403	0.07245
20	135.54	0.8644	0.01409	0.08426
21	144.07	0.8644	0.01406	0.09528
22	154.38	0.8644	0.01403	0.1079
23	163.35	0.8644	0.01396	0.1197
24	178.03	0.8644	0.014	0.1386
25	186.36	0.8644	0.01406	0.1496
26	200.19	0.8644	0.01393	0.1677
27	207.35	0.8644	0.01387	0.1772
28	219.31	0.8644	0.01377	0.1921
29	229.46	0.8644	0.01374	0.2047
30	243.90	0.8644	0.01361	0.2221
31	252.70	0.8644	0.01345	0.2315
32	264.33	0.8644	0.01326	0.2441
33	272.28	0.8644	0.0131	0.2496
34	285.69	0.8644	0.01274	0.2622
35	295.71	0.8644	0.01258	0.2717
36	306.52	0.8644	0.01252	0.2795
37	316.03	0.8644	0.01232	0.2874
38	328.63	0.8644	0.01226	0.2969
39	339.08	0.8644	0.01226	0.304
40	348.07	0.8652	0.0121	0.3103
41	362.49	0.8644	0.0119	0.3189
42	372.23	0.8652	0.01178	0.3244
43	383.41	0.8652	0.01152	0.3299
44	393.36	0.8644	0.01129	0.3339
45	407.42	0.8644	0.0111	0.3394
46	417.44	0.8644	0.01104	0.3433
47	425.66	0.8652	0.01091	0.3457
48	440.32	0.8644	0.01068	0.3496
49	450.27	0.8644	0.01049	0.352
50	458.26	0.8644	0.01046	0.3536
51	474.79	0.8644	0.01023	0.3559
52	481.18	0.8644	0.01017	0.3567
53	491.80	0.8652	0.01001	0.3575
54	501.30	0.8644	0.009974	0.3583
55	511.73	0.8644	0.00991	0.3591
56	524.24	0.8644	0.009652	0.3599
57	536.41	0.8652	0.009749	0.3599
58	543.00	0.8652	0.009717	0.3607
59	552.75	0.8652	0.009717	0.3599
60	563.18	0.8644	0.009717	0.3599
61	576.26	0.8644	0.009685	0.3599
62	586.01	0.8644	0.009556	0.3607
63	598.20	0.8652	0.009459	0.3607
64	606.84	0.8644	0.009266	0.3622
65	618.37	0.8652	0.00917	0.363
66	629.10	0.8644	0.009234	0.3465
67	640.73	0.8644	0.009363	0.3433
68	649.10	0.8644	0.009331	0.3425
69	661.58	0.8644	0.009202	0.3425
70	673.66	0.8652	0.008977	0.3433
71	683.08	0.8644	0.008912	0.3441
72	690.97	0.8644	0.008945	0.3449
73	702.20	0.8644	0.009138	0.3457
74	715.61	0.8644	0.009234	0.3488
75	722.53	0.8644	0.009202	0.3496
76	738.51	0.8644	0.009138	0.3536
77	747.44	0.8644	0.009331	0.3559
78	759.07	0.8644	0.009363	0.3599
79	768.07	0.8636	0.009331	0.3622
80	778.43	0.8644	0.009492	0.3662
81	791.46	0.8644	0.00962	0.3685
82	800.36	0.8644	0.00962	0.3701
83	813.44	0.8644	0.009846	0.3725
84	824.83	0.8644	0.00991	0.374
85	833.50	0.8644	0.01004	0.3748
86	845.95	0.8644	0.01014	0.3764

87	854.65	0.8644	0.01026	0.378	0.1536
88	865.67	0.8644	0.01026	0.3796	0.1555
89	873.55	0.8644	0.0103	0.3811	0.1575
90	888.00	0.8644	0.01039	0.3819	0.1595
91	898.29	0.8644	0.01039	0.3819	0.1614
92	909.81	0.8644	0.01046	0.3811	0.1634
93	922.55	0.8644	0.01042	0.3756	0.1654
94	930.06	0.8644	0.01059	0.3701	0.1673
95	942.25	0.8644	0.01075	0.3654	0.1693
96	953.60	0.8644	0.01091	0.3646	0.1713
97	961.54	0.8644	0.011	0.3654	0.1732
98	976.05	0.8644	0.01107	0.367	0.1752
99	985.70	0.8644	0.01126	0.3685	0.1772
100	996.50	0.8644	0.01139	0.3709	0.1791
101	1006.52	0.8644	0.01171	0.3733	0.1811
102	1016.11	0.8636	0.01203	0.374	0.1831
103	1028.20	0.8644	0.01223	0.3764	0.185
104	1036.48	0.8644	0.01232	0.3772	0.187
105	1048.71	0.8644	0.01248	0.3796	0.189
106	1061.03	0.8636	0.01258	0.3811	0.1909
107	1071.15	0.8644	0.01264	0.3827	0.193
108	1082.63	0.8644	0.01274	0.3827	0.1949
109	1093.80	0.8644	0.01287	0.3843	0.1969
110	1101.95	0.8644	0.01303	0.3851	0.1989
111	1115.36	0.8644	0.01319	0.3859	0.2008
112	1127.59	0.8644	0.01338	0.3859	0.2028
113	1134.64	0.8644	0.01342	0.3874	0.2048
114	1148.76	0.8636	0.01371	0.389	0.2067
115	1158.14	0.8644	0.0138	0.389	0.2087
116	1169.96	0.8644	0.01393	0.3898	0.2107
117	1176.89	0.8636	0.01396	0.3906	0.2126
118	1190.15	0.8644	0.01406	0.3898	0.2146
119	1201.03	0.8644	0.01419	0.3898	0.2166
120	1212.62	0.8644	0.01435	0.3882	0.2185
121	1223.47	0.8644	0.01438	0.389	0.2205
122	1231.72	0.8644	0.01461	0.3906	0.2225
123	1242.97	0.8636	0.0147	0.3914	0.2244
124	1257.65	0.8644	0.01506	0.389	0.2264
125	1265.51	0.8644	0.01519	0.3906	0.2284
126	1277.52	0.8636	0.01548	0.3906	0.2303
127	1289.49	0.8644	0.0156	0.3929	0.2323
128	1299.85	0.8644	0.01589	0.3906	0.2343
129	1308.95	0.8644	0.01602	0.3937	0.2362
130	1322.68	0.8644	0.01618	0.3977	0.2382
131	1332.22	0.8644	0.01625	0.4008	0.2402
132	1341.79	0.8644	0.01631	0.4024	0.2421
133	1351.26	0.8644	0.01641	0.4055	0.2441
134	1365.40	0.8644	0.01647	0.4079	0.2461
135	1375.41	0.8644	0.0166	0.4087	0.248
136	1386.20	0.8644	0.01673	0.4087	0.25
137	1394.38	0.8644	0.01689	0.4079	0.252
138	1405.31	0.8644	0.01712	0.4071	0.2539
139	1418.30	0.8644	0.01737	0.4055	0.256
140	1426.23	0.8644	0.01754	0.4047	0.2579
141	1440.41	0.8644	0.01792	0.4055	0.2599
142	1451.69	0.8636	0.01808	0.4063	0.2619
143	1461.34	0.8644	0.01815	0.4071	0.2638
144	1472.51	0.8644	0.01828	0.4087	0.2658
145	1482.94	0.8644	0.0184	0.411	0.2678
146	1497.51	0.8644	0.01879	0.4134	0.2697
147	1506.35	0.8644	0.01898	0.4158	0.2717
148	1514.96	0.8644	0.01911	0.4181	0.2737
149	1530.43	0.8644	0.0193	0.4213	0.2756
150	1537.71	0.8644	0.01934	0.4236	0.2776
151	1547.95	0.8636	0.01947	0.4252	0.2796
152	1561.70	0.8644	0.01969	0.4292	0.2815
153	1572.43	0.8644	0.01985	0.4315	0.2835
154	1583.58	0.8644	0.02001	0.4339	0.2855
155	1597.23	0.8644	0.02014	0.4386	0.2874
156	1603.58	0.8644	0.02017	0.4394	0.2894
157	1616.62	0.8644	0.02043	0.4425	0.2914
158	1624.16	0.8644	0.02066	0.4441	0.2933
159	1636.34	0.8636	0.02072	0.4465	0.2953
160	1649.44	0.8644	0.02082	0.4504	0.2973
161	1655.11	0.8644	0.02098	0.4512	0.2989

DIRECT SHEAR TEST REPORT



Symbol	\odot		
Test No.	5742102BS2D		
Sample No.	OST-2		
Shape	Circular		
Initial	Dimension, in	2.3642	
	Area, in ²	4.3898	
	Height, in	0.94449	
	Water Content, %	30.89	
	Dry Density, pcf	77.54	
	Saturation, %	72.46	
	Void Ratio	1.1255	
	Consol. Height, in	0.91991	
	Consol. Void Ratio	1.0702	
Final	Water Content, %	39.83	
	Dry Density, pcf	80.342	
	Saturation, %	100.01	
	Void Ratio	1.0513	
	Normal Stress, tsf	0.89995	
	Max. Shear Stress, tsf	0.39008	
	Ult. Shear Stress, tsf	0.39008	
	Time to Failure, min	3764.2	

Project: KINGSTON COAL TVA	Disp. Rate, in/min	3.1496e-005
Location: TN	Measured Specific Gravity	2.64
Project No.: 60095742	Liquid Limit	30
Boring No.: B102B OST-2	Plastic Limit	21
Sample Type: OST 3"	Plasticity Index	9
Description: ORGANIC CLAY TRACE F SAND - BLACK, GRAY, BROWN (OL)		
Remarks: TEST PERFORMED AS PER ASTM D 3080		

DIRECT SHEAR TEST DATA

Project: KINGSTON COAL TVA
 Boring No.: B102B OST-2
 Sample No.: OST-2
 Test No.: 5742102BS2D

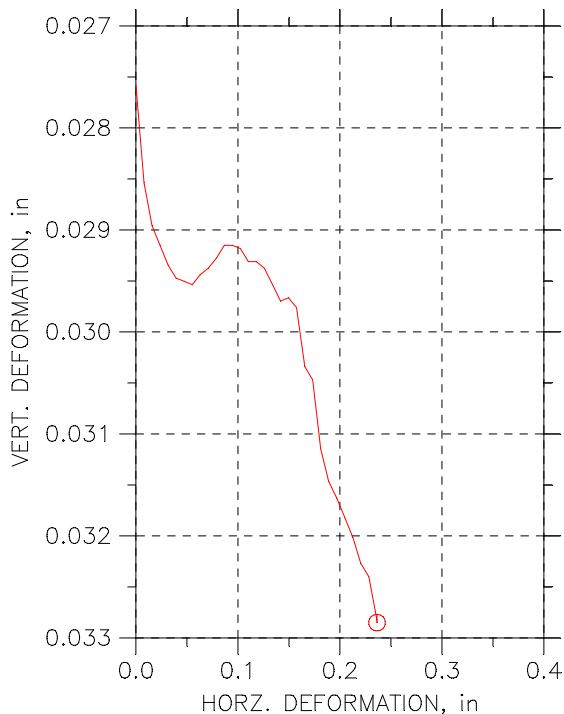
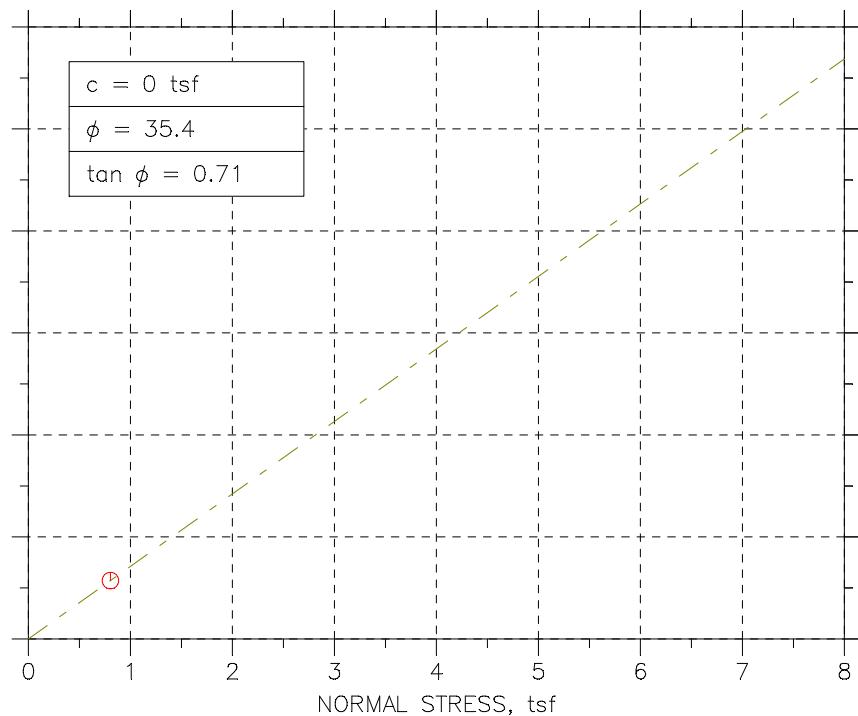
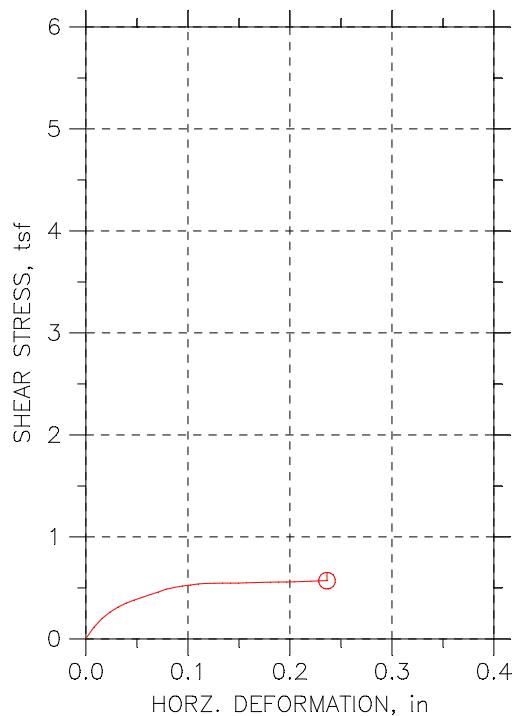
Location: TN
 Tested By: BCM
 Test Date: 2/13/09
 Sample Type: OST 3"

Project No.: 60095742
 Checked By: WPQ
 Depth: 29.5'-32.0'
 Elevation:

Soil Description: ORGANIC CLAY TRACE F SAND - BLACK, GRAY, BROWN (OL)
 Remarks: TEST PERFORMED AS PER ASTM D 3080

	Elapsed Time min	Vertical Stress tsf	Vertical Displacement in	Horizontal Stress tsf	Horizontal Displacement in
1	1193.07	0.9	0.02609	0	0
2	1503.70	0.9	0.02719	0.07044	0.007916
3	1748.31	0.9	0.0279	0.1109	0.01578
4	2004.77	0.9	0.02835	0.155	0.02365
5	2269.49	0.9	0.0288	0.2087	0.03152
6	2517.95	0.9	0.02928	0.2536	0.03939
7	2762.17	0.9	0.02989	0.2915	0.04726
8	3014.72	0.9	0.03092	0.3249	0.05512
9	3269.91	0.9	0.03198	0.3469	0.06299
10	3511.88	0.9	0.03253	0.3716	0.07091
11	3764.18	0.9	0.03295	0.3901	0.07878
12	3269.91	0.9	0.03198	0.3469	0.06299
13	3511.88	0.9	0.03253	0.3716	0.07091
14	3764.18	0.9	0.03295	0.3901	0.07878

DIRECT SHEAR TEST REPORT



Symbol	\odot			
Test No.	5742102BS2a			
Sample No.	OST-2			
Shape	Circular			
Initial	Dimension, in	2.5		
	Area, in ²	4.9087		
	Height, in	0.94449		
	Water Content, %	30.39		
	Dry Density, pcf	85.374		
	Saturation, %	86.24		
	Void Ratio	0.93044		
	Consol. Height, in	0.91801		
	Consol. Void Ratio	0.87632		
Final	Water Content, %	32.70		
	Dry Density, pcf	88.451		
	Saturation, %	100.01		
	Void Ratio	0.8633		
	Normal Stress, tsf	0.80429		
	Max. Shear Stress, tsf	0.57169		
	Ult. Shear Stress, tsf	0.5709		
	Time to Failure, min	4484.9		

Project: KINGSTON COAL TVA

Location: TN

Project No.: 60095742

Boring No.: B102B OST-2

Sample Type: OST 3"

Description: ORGANIC CLAY TRACE F SAND - BLACK, GRAY AND BROWN (OL)

Remarks: TEST PERFORMED AS PER ASTM D 3080

DIRECT SHEAR TEST DATA

Project: KINGSTON COAL TVA
 Boring No.: B102B OST-2
 Sample No.: OST-2
 Test No.: 5742102BS2a

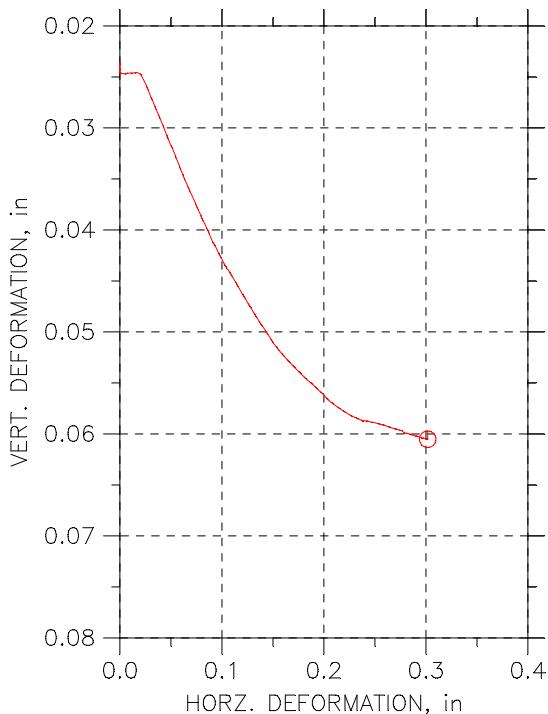
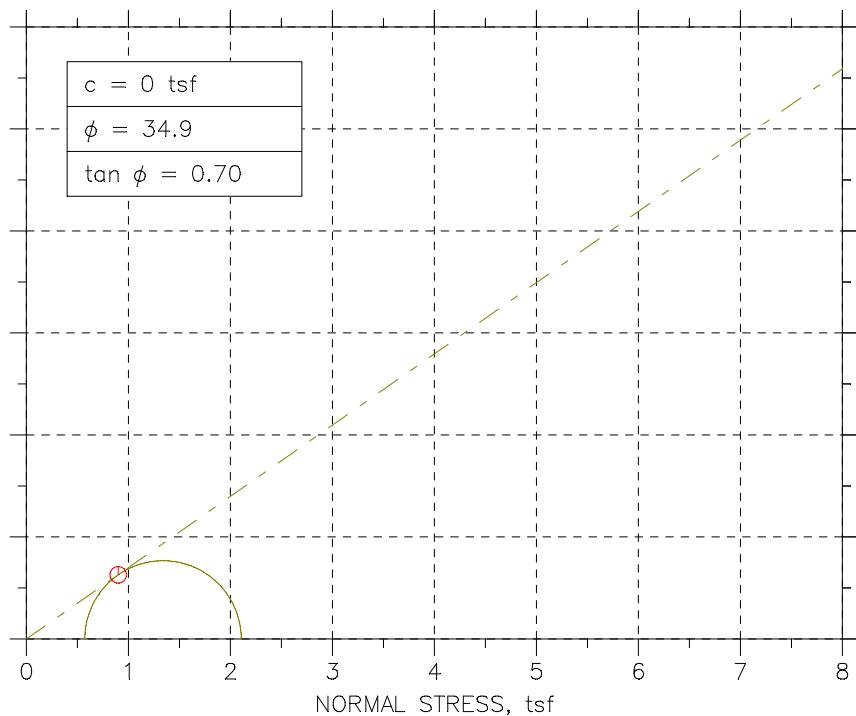
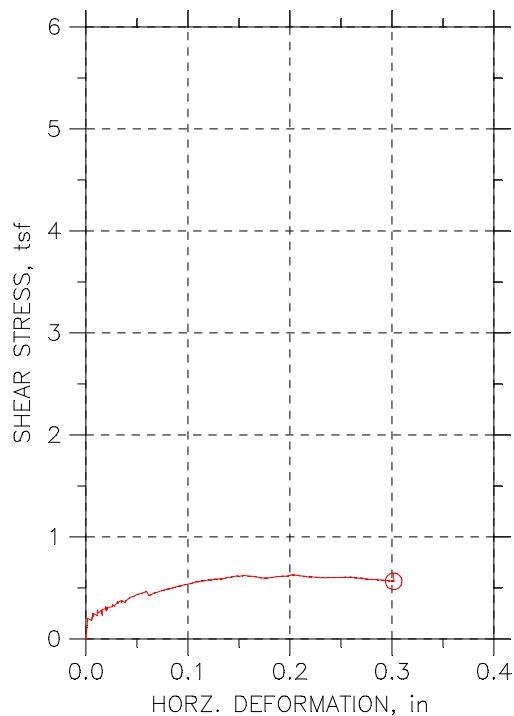
Location: TN
 Tested By: BCM
 Test Date: 2/13/09
 Sample Type: OST 3"

Project No.: 60095742
 Checked By: WPQ
 Depth: 29.5'-32.0'
 Elevation:

Soil Description: ORGANIC CLAY TRACE F SAND - BLACK, GRAY AND BROWN (OL)
 Remarks: TEST PERFORMED AS PER ASTM D 3080

	Elapsed Time min	Vertical Stress tsf	Vertical Displacement in	Horizontal Stress tsf	Horizontal Displacement in
1	0.00	0.8035	0.02757	0	0
2	406.80	0.8043	0.02854	0.115	0.007916
3	554.78	0.8043	0.02896	0.2008	0.01578
4	702.97	0.8043	0.02915	0.263	0.02365
5	844.70	0.8035	0.02934	0.311	0.03152
6	987.92	0.8043	0.02947	0.3504	0.03939
7	1126.93	0.8043	0.0295	0.3811	0.04726
8	1257.65	0.8051	0.02954	0.4079	0.05512
9	1402.81	0.8043	0.02944	0.4339	0.06299
10	1538.25	0.8035	0.02938	0.4599	0.07086
11	1685.56	0.8043	0.02928	0.4874	0.07878
12	1828.80	0.8043	0.02915	0.5048	0.08665
13	1977.12	0.8043	0.02915	0.5189	0.09451
14	2110.15	0.8043	0.02918	0.5284	0.1024
15	2255.90	0.8043	0.02931	0.5386	0.1102
16	2390.54	0.8043	0.02931	0.5433	0.1181
17	2533.41	0.8043	0.02938	0.5449	0.126
18	2675.87	0.8035	0.02954	0.5465	0.1339
19	2819.69	0.8043	0.0297	0.5465	0.1418
20	2960.91	0.8043	0.02967	0.5473	0.1496
21	3093.42	0.8043	0.02976	0.5496	0.1575
22	3230.09	0.8051	0.03034	0.5512	0.1657
23	3380.18	0.8043	0.03047	0.5544	0.1732
24	3517.19	0.8043	0.03115	0.5559	0.1811
25	3641.42	0.8043	0.03147	0.5575	0.189
26	3783.35	0.8035	0.03163	0.5583	0.1969
27	3936.20	0.8043	0.03182	0.5599	0.2048
28	4066.11	0.8043	0.03201	0.563	0.2126
29	4204.80	0.8043	0.03227	0.5662	0.2205
30	4351.39	0.8043	0.0324	0.5685	0.2284
31	4484.94	0.8043	0.03282	0.5717	0.2362
32	4487.76	0.8043	0.03285	0.5709	0.2364

DIRECT SHEAR TEST REPORT



Symbol	\odot		
Test No.	102BS2B		
Sample No.	S-2		
Shape	Circular		
Initial	Dimension, in	2.3642	
	Area, in ²	4.3898	
	Height, in	0.81339	
	Water Content, %	50.79	
	Dry Density, pcf	66.54	
	Saturation, %	100.57	
	Void Ratio	1.1662	
	Consol. Height, in	0.7902	
	Consol. Void Ratio	1.1044	
Final	Water Content, %	43.53	
	Dry Density, pcf	71.89	
	Saturation, %	100.01	
	Void Ratio	1.005	
	Normal Stress, tsf	0.89995	
	Max. Shear Stress, tsf	0.62863	
	Ult. Shear Stress, tsf	0.5649	
	Time to Failure, min	4080	
Project: KINGSTON COAL	Disp. Rate, in/min	0.00015748	
Location: TN	Measured Specific Gravity	2.31	
Project No.: 60095742	Liquid Limit	---	
Boring No.: 102B OST-2	Plastic Limit	---	
Sample Type: 3" OST	Plasticity Index	---	
Description: SILTY CLAY AND FLYASH - BROWN AND DARK GRAY			
Remarks: TEST PERFORMED AS PER ASTM D 3080			

DIRECT SHEAR TEST DATA

Project: KINGSTON COAL
 Boring No.: 102B OST-2
 Sample No.: S-2
 Test No.: 102BS2B

Location: TN
 Tested By: BCM
 Test Date: 02/09/09
 Sample Type: 3" OST

Project No.: 60095742
 Checked By: WPQ
 Depth: 29.5' - 32.0'
 Elevation:

Soil Description: SILTY CLAY AND FLYASH - BROWN AND DARK GRAY
 Remarks: TEST PERFORMED AS PER ASTM D 3080

Step: 1 of 1

	Elapsed Time min	Vertical Stress tsf	Vertical Displacement in	Horizontal Stress tsf	Horizontal Displacement in	Cumulative Displacement in
1	0.00	0.9	0.02364	0	0	0
2	5.00	0.9	0.02362	0.0008671	0.0001411	0.0001411
3	10.00	0.9	0.02368	0.0008671	0	0
4	15.00	0.9	0.02371	0.0008671	0	0
5	20.00	0.9	0.02378	0.0008671	0.0001411	0.0001411
6	25.00	0.9	0.02381	0.0008671	0.0001411	0.0001411
7	30.00	0.9	0.02382	0.0008671	0.0001411	0.0001411
8	35.00	0.9	0.02385	0.0008671	0	0
9	40.00	0.9	0.02386	0.0008671	0	0
10	45.00	0.9	0.02389	0.0008671	0	0
11	100.00	0.9	0.02418	0.001301	0	0
12	105.00	0.9	0.02421	0.001301	0.0001411	0.0001411
13	110.00	0.9	0.0242	0.001301	0.0001411	0.0001411
14	115.00	0.9	0.02421	0.001301	0	0
15	170.00	0.9	0.02435	0.001734	0	0
16	175.00	0.9	0.02437	0.001734	0	0
17	180.00	0.9	0.02435	0.001734	0	0
18	185.00	0.9	0.02435	0.001301	0	0
19	190.00	0.9	0.02439	0.001734	0	0
20	245.00	0.9	0.02455	0.001734	0	0
21	250.00	0.9	0.02456	0.001734	0	0
22	255.00	0.9	0.02456	0.001734	0	0
23	260.00	0.9	0.02458	0.001734	0	0
24	265.00	0.9	0.02459	0.001734	0	0
25	320.00	0.9	0.02466	0.1075	0.0008464	0.0008464
26	325.00	0.9	0.02468	0.1097	0.0009875	0.0009875
27	330.00	0.9	0.02469	0.1366	0.00127	0.00127
28	335.00	0.9	0.02466	0.1691	0.001411	0.001411
29	340.00	0.9	0.02466	0.2016	0.001693	0.001693
30	400.00	0.9	0.0247	0.1847	0.005079	0.005079
31	405.00	0.9	0.0247	0.1908	0.005361	0.005361
32	410.00	0.9	0.02468	0.1825	0.005643	0.005643
33	415.00	0.9	0.02466	0.2016	0.005925	0.005925
34	420.00	0.9	0.02468	0.2129	0.006066	0.006066
35	425.00	0.9	0.02466	0.2241	0.006348	0.006348
36	430.00	0.9	0.02466	0.2341	0.00663	0.00663
37	435.00	0.9	0.02466	0.248	0.006771	0.006771
38	440.00	0.9	0.02463	0.2241	0.007195	0.007195
39	445.00	0.9	0.02463	0.2502	0.007336	0.007336
40	515.00	0.9	0.02463	0.2263	0.011	0.011
41	520.00	0.9	0.02462	0.284	0.01129	0.01129
42	525.00	0.9	0.02463	0.2714	0.01157	0.01157
43	530.00	0.9	0.02465	0.2606	0.01185	0.01185
44	535.00	0.9	0.02463	0.2554	0.01213	0.01213
45	590.00	0.9	0.02459	0.2814	0.01509	0.01509
46	595.00	0.9	0.02462	0.2623	0.01538	0.01538
47	600.00	0.9	0.02459	0.2475	0.01566	0.01566
48	605.00	0.9	0.02456	0.2319	0.01594	0.01594
49	610.00	0.9	0.02455	0.2879	0.01608	0.01608
50	665.00	0.9	0.02466	0.2948	0.01904	0.01904
51	670.00	0.9	0.02468	0.3182	0.01919	0.01919
52	675.00	0.9	0.02468	0.3	0.01947	0.01947
53	680.00	0.9	0.0247	0.2757	0.01989	0.01989
54	685.00	0.9	0.02472	0.2931	0.02003	0.02003
55	690.00	0.9	0.02476	0.31	0.02031	0.02031
56	695.00	0.9	0.02479	0.2892	0.0206	0.0206
57	700.00	0.9	0.02483	0.3065	0.02088	0.02088
58	705.00	0.9	0.02486	0.287	0.02102	0.02102
59	710.00	0.9	0.0249	0.3052	0.0213	0.0213
60	795.00	0.9	0.02583	0.316	0.02582	0.02582
61	805.00	0.9	0.02595	0.3334	0.02624	0.02624
62	810.00	0.9	0.02604	0.3304	0.02652	0.02652
63	820.00	0.9	0.02615	0.3269	0.02709	0.02709
64	830.00	0.9	0.02626	0.3212	0.02751	0.02751
65	890.00	0.9	0.02702	0.3529	0.03061	0.03061
66	895.00	0.9	0.02706	0.3568	0.03075	0.03075
67	900.00	0.9	0.0271	0.3629	0.03104	0.03104
68	905.00	0.9	0.02717	0.3481	0.03132	0.03132
69	910.00	0.9	0.02723	0.3616	0.0316	0.0316
70	965.00	0.9	0.02795	0.3724	0.03442	0.03442
71	970.00	0.9	0.02803	0.3681	0.0347	0.0347
72	975.00	0.9	0.02807	0.3603	0.03499	0.03499
73	980.00	0.9	0.02811	0.3767	0.03527	0.03527
74	985.00	0.9	0.0282	0.3707	0.03555	0.03555
75	1040.00	0.9	0.02879	0.3577	0.03809	0.03809
76	1045.00	0.9	0.02884	0.3611	0.03837	0.03837
77	1050.00	0.9	0.0289	0.3637	0.03865	0.03865
78	1055.00	0.9	0.02897	0.3681	0.03894	0.03894
79	1060.00	0.9	0.02903	0.3724	0.03922	0.03922

80	1125.00	0.9	0.02978	0.3976	0.04232	0.04232
81	1130.00	0.9	0.02984	0.4006	0.0426	0.0426
82	1135.00	0.9	0.02991	0.4036	0.04275	0.04275
83	1140.00	0.9	0.02995	0.4032	0.04289	0.04289
84	1145.00	0.9	0.02999	0.4062	0.04317	0.04317
85	1200.00	0.9	0.03078	0.4153	0.04613	0.04613
86	1205.00	0.9	0.03087	0.4158	0.04627	0.04627
87	1210.00	0.9	0.03091	0.4153	0.0467	0.0467
88	1215.00	0.9	0.03099	0.4162	0.04684	0.04684
89	1220.00	0.9	0.03106	0.4188	0.04712	0.04712
90	1275.00	0.9	0.03175	0.4353	0.05022	0.05022
91	1280.00	0.9	0.03181	0.4361	0.0505	0.0505
92	1285.00	0.9	0.03186	0.437	0.05079	0.05079
93	1290.00	0.9	0.03192	0.4379	0.05107	0.05107
94	1295.00	0.9	0.03199	0.4383	0.05135	0.05135
95	1350.00	0.9	0.03273	0.4448	0.05445	0.05445
96	1355.00	0.9	0.03282	0.447	0.0546	0.0546
97	1360.00	0.9	0.03289	0.4478	0.05488	0.05488
98	1365.00	0.9	0.03296	0.4478	0.05516	0.05516
99	1370.00	0.9	0.03303	0.4496	0.05544	0.05544
100	1425.00	0.9	0.03374	0.4604	0.0584	0.0584
101	1430.00	0.9	0.03384	0.4617	0.05869	0.05869
102	1435.00	0.9	0.03395	0.4626	0.05911	0.05911
103	1440.00	0.9	0.03402	0.4643	0.05939	0.05939
104	1445.00	0.9	0.03409	0.4661	0.05953	0.05953
105	1485.00	0.9	0.03436	0.4253	0.06179	0.06179
106	1490.00	0.9	0.03468	0.427	0.06193	0.06193
107	1510.00	0.9	0.03492	0.4305	0.06306	0.06306
108	1515.00	0.9	0.03501	0.4327	0.06334	0.06334
109	1520.00	0.9	0.03508	0.4335	0.06362	0.06362
110	1575.00	0.9	0.03574	0.4474	0.06659	0.06659
111	1580.00	0.9	0.03582	0.4487	0.06687	0.06687
112	1585.00	0.9	0.03588	0.4504	0.06715	0.06715
113	1590.00	0.9	0.03593	0.4509	0.06743	0.06743
114	1595.00	0.9	0.03599	0.4513	0.06771	0.06771
115	1600.00	0.9	0.03606	0.4522	0.068	0.068
116	1605.00	0.9	0.03611	0.453	0.06828	0.06828
117	1610.00	0.9	0.03618	0.453	0.06856	0.06856
118	1615.00	0.9	0.03628	0.4543	0.06884	0.06884
119	1620.00	0.9	0.0363	0.4543	0.06913	0.06913
120	1710.00	0.9	0.03736	0.4713	0.07392	0.07392
121	1715.00	0.9	0.03746	0.4726	0.0742	0.0742
122	1720.00	0.9	0.03749	0.4734	0.07449	0.07449
123	1725.00	0.9	0.03756	0.4743	0.07477	0.07477
124	1730.00	0.9	0.03769	0.4752	0.07505	0.07505
125	1735.00	0.9	0.0377	0.4756	0.07533	0.07533
126	1740.00	0.9	0.03778	0.4756	0.07562	0.07562
127	1745.00	0.9	0.03778	0.4778	0.0759	0.0759
128	1750.00	0.9	0.03788	0.4786	0.07604	0.07604
129	1755.00	0.9	0.03797	0.4795	0.07646	0.07646
130	1810.00	0.9	0.03863	0.486	0.07942	0.07942
131	1815.00	0.9	0.03866	0.4873	0.07971	0.07971
132	1820.00	0.9	0.03875	0.4877	0.07985	0.07985
133	1825.00	0.9	0.03882	0.4882	0.08027	0.08027
134	1830.00	0.9	0.03887	0.4886	0.08041	0.08041
135	1835.00	0.9	0.03896	0.4908	0.08083	0.08083
136	1840.00	0.9	0.03903	0.4899	0.08112	0.08112
137	1845.00	0.9	0.03903	0.4903	0.08126	0.08126
138	1850.00	0.9	0.03912	0.4908	0.08154	0.08154
139	1855.00	0.9	0.03912	0.4908	0.08182	0.08182
140	1920.00	0.9	0.03983	0.4999	0.08521	0.08521
141	1925.00	0.9	0.03992	0.5003	0.08549	0.08549
142	1930.00	0.9	0.03996	0.5016	0.08577	0.08577
143	1935.00	0.9	0.04004	0.502	0.08605	0.08605
144	1940.00	0.9	0.04007	0.5029	0.08634	0.08634
145	1945.00	0.9	0.04013	0.5038	0.08662	0.08662
146	1950.00	0.9	0.04023	0.5042	0.0869	0.0869
147	1955.00	0.9	0.04027	0.5055	0.08718	0.08718
148	1960.00	0.9	0.04035	0.5059	0.08747	0.08747
149	1965.00	0.9	0.04041	0.5077	0.08761	0.08761
150	2030.00	0.9	0.04122	0.5176	0.09113	0.09113
151	2035.00	0.9	0.04127	0.5181	0.09142	0.09142
152	2040.00	0.9	0.04131	0.5189	0.0917	0.0917
153	2045.00	0.9	0.04134	0.5194	0.09198	0.09198
154	2050.00	0.9	0.04138	0.5194	0.09226	0.09226
155	2055.00	0.9	0.04142	0.5202	0.09254	0.09254
156	2060.00	0.9	0.04149	0.5207	0.09283	0.09283
157	2065.00	0.9	0.04155	0.5202	0.09311	0.09311
158	2070.00	0.9	0.0416	0.5215	0.09339	0.09339
159	2075.00	0.9	0.0416	0.5224	0.09353	0.09353
160	2130.00	0.9	0.04223	0.5324	0.09663	0.09663
161	2135.00	0.9	0.04232	0.5319	0.09692	0.09692
162	2140.00	0.9	0.04235	0.5319	0.0972	0.0972
163	2145.00	0.9	0.04242	0.5315	0.09748	0.09748
164	2150.00	0.9	0.04247	0.5328	0.09776	0.09776
165	2155.00	0.9	0.04252	0.5324	0.09805	0.09805
166	2160.00	0.9	0.04257	0.5337	0.09833	0.09833
167	2165.00	0.9	0.04263	0.5328	0.09861	0.09861
168	2170.00	0.9	0.04268	0.5341	0.09889	0.09889
169	2175.00	0.9	0.04271	0.535	0.09917	0.09917
170	2235.00	0.9	0.04334	0.5419	0.1024	0.1024
171	2240.00	0.9	0.04348	0.5415	0.1027	0.1027
172	2245.00	0.9	0.04344	0.5428	0.1028	0.1028
173	2250.00	0.9	0.04348	0.5428	0.1031	0.1031
174	2255.00	0.9	0.04354	0.5441	0.1034	0.1034

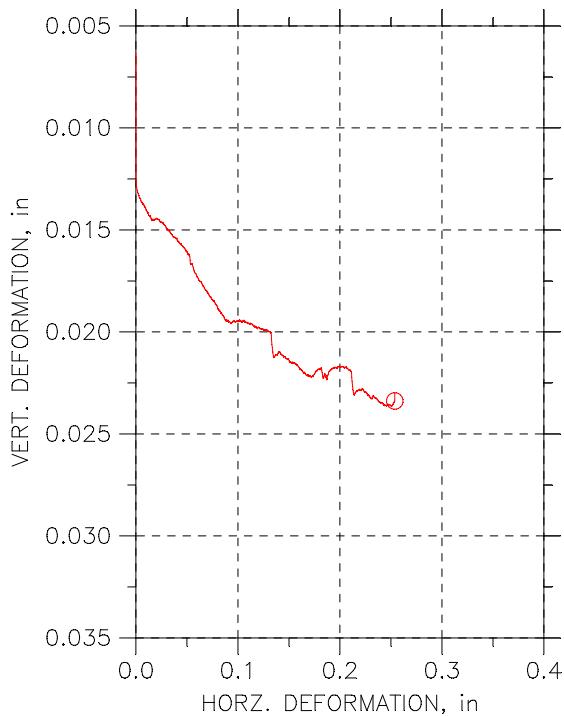
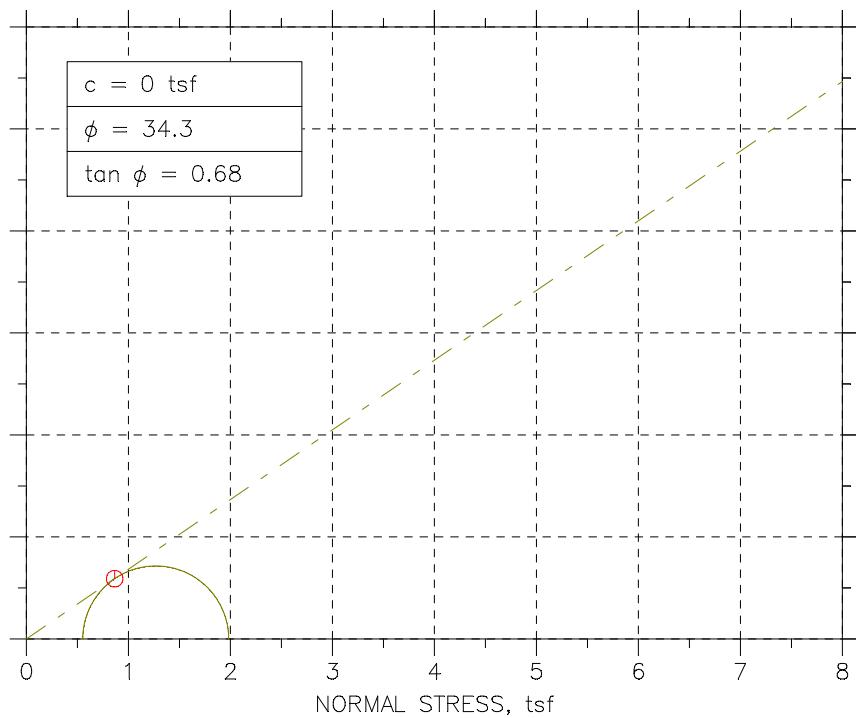
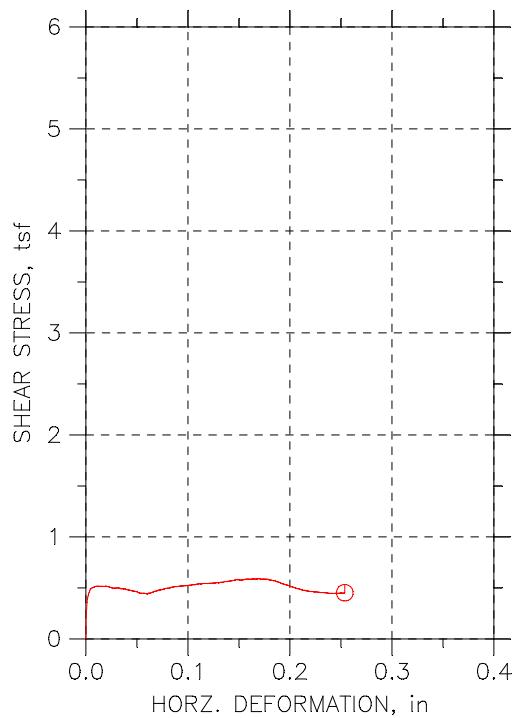
175	2260.00	0.9	0.04357	0.545	0.1037	0.1037
176	2265.00	0.9	0.04362	0.5458	0.104	0.104
177	2270.00	0.9	0.04365	0.5471	0.1043	0.1043
178	2275.00	0.9	0.04371	0.548	0.1045	0.1045
179	2280.00	0.9	0.04374	0.5484	0.1047	0.1047
180	2335.00	0.9	0.04414	0.5593	0.1078	0.1078
181	2340.00	0.9	0.0442	0.5588	0.1079	0.1079
182	2345.00	0.9	0.04427	0.5601	0.1082	0.1082
183	2350.00	0.9	0.04428	0.5614	0.1085	0.1085
184	2355.00	0.9	0.04433	0.5606	0.1088	0.1088
185	2360.00	0.9	0.04438	0.5606	0.109	0.109
186	2365.00	0.9	0.04441	0.5601	0.1092	0.1092
187	2370.00	0.9	0.04447	0.5601	0.1095	0.1095
188	2375.00	0.9	0.04449	0.5606	0.1098	0.1098
189	2380.00	0.9	0.04456	0.561	0.11	0.11
190	2440.00	0.9	0.0451	0.5679	0.1134	0.1134
191	2445.00	0.9	0.04513	0.5688	0.1136	0.1136
192	2450.00	0.9	0.04518	0.5692	0.1138	0.1138
193	2455.00	0.9	0.04521	0.5692	0.1141	0.1141
194	2460.00	0.9	0.04528	0.5697	0.1144	0.1144
195	2465.00	0.9	0.04532	0.5692	0.1147	0.1147
196	2470.00	0.9	0.04539	0.5697	0.115	0.115
197	2475.00	0.9	0.04543	0.5692	0.1153	0.1153
198	2480.00	0.9	0.0455	0.5697	0.1155	0.1155
199	2485.00	0.9	0.04556	0.5701	0.1158	0.1158
200	2560.00	0.9	0.04629	0.5788	0.1202	0.1202
201	2565.00	0.9	0.04632	0.5779	0.1205	0.1205
202	2570.00	0.9	0.04637	0.5779	0.1208	0.1208
203	2575.00	0.9	0.0464	0.5766	0.1209	0.1209
204	2580.00	0.9	0.04646	0.5766	0.1212	0.1212
205	2585.00	0.9	0.0465	0.577	0.1215	0.1215
206	2590.00	0.9	0.04654	0.577	0.1217	0.1217
207	2595.00	0.9	0.04659	0.5779	0.122	0.122
208	2600.00	0.9	0.04663	0.5779	0.1223	0.1223
209	2605.00	0.9	0.04668	0.5788	0.1226	0.1226
210	2660.00	0.9	0.04723	0.5831	0.1258	0.1258
211	2665.00	0.9	0.04725	0.5853	0.126	0.126
212	2670.00	0.9	0.0473	0.5866	0.1264	0.1264
213	2675.00	0.9	0.04737	0.587	0.1265	0.1265
214	2680.00	0.9	0.0474	0.587	0.1268	0.1268
215	2685.00	0.9	0.04746	0.5853	0.1272	0.1272
216	2690.00	0.9	0.0475	0.5853	0.1275	0.1275
217	2695.00	0.9	0.04755	0.5861	0.1278	0.1278
218	2700.00	0.9	0.0476	0.5857	0.1281	0.1281
219	2705.00	0.9	0.04764	0.5866	0.1284	0.1284
220	2760.00	0.9	0.04816	0.5874	0.1315	0.1315
221	2765.00	0.9	0.0482	0.5879	0.1318	0.1318
222	2770.00	0.9	0.04824	0.5879	0.132	0.132
223	2775.00	0.9	0.04828	0.5883	0.1323	0.1323
224	2780.00	0.9	0.04833	0.5892	0.1325	0.1325
225	2785.00	0.9	0.0484	0.59	0.1329	0.1329
226	2790.00	0.9	0.04845	0.5909	0.1332	0.1332
227	2795.00	0.9	0.04848	0.5892	0.1335	0.1335
228	2800.00	0.9	0.04854	0.5896	0.1337	0.1337
229	2805.00	0.9	0.04855	0.59	0.134	0.134
230	2850.00	0.9	0.04897	0.5957	0.1366	0.1366
231	2855.00	0.9	0.049	0.597	0.1368	0.1368
232	2860.00	0.9	0.04904	0.5978	0.137	0.137
233	2875.00	0.9	0.04917	0.6009	0.1378	0.1378
234	2880.00	0.9	0.04922	0.6004	0.1381	0.1381
235	2885.00	0.9	0.04925	0.6013	0.1384	0.1384
236	2890.00	0.9	0.04929	0.6017	0.1387	0.1387
237	2895.00	0.9	0.04932	0.6017	0.139	0.139
238	2900.00	0.9	0.04939	0.6013	0.1392	0.1392
239	2905.00	0.9	0.04942	0.6017	0.1397	0.1397
240	2960.00	0.9	0.04986	0.6074	0.1425	0.1425
241	2965.00	0.9	0.04988	0.6078	0.1428	0.1428
242	2970.00	0.9	0.04993	0.6074	0.143	0.143
243	2975.00	0.9	0.04997	0.6078	0.1433	0.1433
244	2980.00	0.9	0.05002	0.6087	0.1436	0.1436
245	2985.00	0.9	0.05005	0.61	0.1439	0.1439
246	2990.00	0.9	0.05011	0.6109	0.1442	0.1442
247	2995.00	0.9	0.05016	0.6113	0.1445	0.1445
248	3000.00	0.9	0.05018	0.6126	0.1447	0.1447
249	3005.00	0.9	0.05023	0.6122	0.145	0.145
250	3060.00	0.9	0.05071	0.6178	0.148	0.148
251	3065.00	0.9	0.05075	0.6165	0.1483	0.1483
252	3070.00	0.9	0.05077	0.6161	0.1485	0.1485
253	3075.00	0.9	0.05082	0.6161	0.1488	0.1488
254	3080.00	0.9	0.05087	0.6161	0.149	0.149
255	3085.00	0.9	0.05091	0.6156	0.1493	0.1493
256	3090.00	0.9	0.05096	0.6143	0.1497	0.1497
257	3095.00	0.9	0.05099	0.6143	0.1498	0.1498
258	3100.00	0.9	0.05102	0.613	0.1501	0.1501
259	3105.00	0.9	0.05108	0.613	0.1504	0.1504
260	3160.00	0.9	0.05147	0.6191	0.1533	0.1533
261	3165.00	0.9	0.05148	0.6182	0.1538	0.1538
262	3170.00	0.9	0.05153	0.6204	0.1539	0.1539
263	3175.00	0.9	0.05155	0.6208	0.1542	0.1542
264	3180.00	0.9	0.05161	0.6208	0.1545	0.1545
265	3185.00	0.9	0.05165	0.6217	0.1548	0.1548
266	3190.00	0.9	0.05169	0.6226	0.155	0.155
267	3195.00	0.9	0.05171	0.623	0.1553	0.1553
268	3200.00	0.9	0.05175	0.623	0.1556	0.1556
269	3205.00	0.9	0.05179	0.6217	0.1559	0.1559

270	3260.00	0.9	0.05214	0.6156	0.1588	0.1588
271	3265.00	0.9	0.05217	0.6152	0.1591	0.1591
272	3270.00	0.9	0.05224	0.6148	0.1594	0.1594
273	3275.00	0.9	0.05224	0.6152	0.1597	0.1597
274	3280.00	0.9	0.05228	0.6148	0.16	0.16
275	3285.00	0.9	0.0523	0.6152	0.1603	0.1603
276	3290.00	0.9	0.05234	0.6152	0.1605	0.1605
277	3295.00	0.9	0.05235	0.6135	0.1608	0.1608
278	3300.00	0.9	0.05238	0.6148	0.1611	0.1611
279	3305.00	0.9	0.05241	0.6152	0.1612	0.1612
280	3310.00	0.9	0.05273	0.613	0.1642	0.1642
281	3315.00	0.9	0.05278	0.6126	0.1646	0.1646
282	3320.00	0.9	0.05279	0.6113	0.1649	0.1649
283	3325.00	0.9	0.05283	0.6113	0.1651	0.1651
284	3330.00	0.9	0.05286	0.6117	0.1653	0.1653
285	3335.00	0.9	0.05292	0.6109	0.1656	0.1656
286	3340.00	0.9	0.05293	0.6109	0.1659	0.1659
287	3345.00	0.9	0.05296	0.6104	0.1662	0.1662
288	3400.00	0.9	0.05299	0.61	0.1665	0.1665
289	3405.00	0.9	0.053	0.6087	0.1667	0.1667
290	3410.00	0.9	0.05332	0.603	0.1697	0.1697
291	3415.00	0.9	0.05335	0.6022	0.17	0.17
292	3420.00	0.9	0.05336	0.6013	0.1704	0.1704
293	3425.00	0.9	0.05339	0.6004	0.1707	0.1707
294	3430.00	0.9	0.05345	0.6	0.1708	0.1708
295	3485.00	0.9	0.05346	0.6004	0.1713	0.1713
296	3490.00	0.9	0.05348	0.5991	0.1714	0.1714
297	3495.00	0.9	0.05351	0.5996	0.1717	0.1717
298	3500.00	0.9	0.05355	0.5996	0.172	0.172
299	3505.00	0.9	0.05358	0.5996	0.1722	0.1722
300	3560.00	0.9	0.05387	0.5965	0.1752	0.1752
301	3565.00	0.9	0.05388	0.5961	0.1755	0.1755
302	3570.00	0.9	0.05393	0.5961	0.1758	0.1758
303	3575.00	0.9	0.05395	0.5961	0.1761	0.1761
304	3580.00	0.9	0.05398	0.5974	0.1763	0.1763
305	3585.00	0.9	0.05401	0.5957	0.1766	0.1766
306	3590.00	0.9	0.05402	0.5965	0.177	0.177
307	3595.00	0.9	0.05407	0.597	0.1773	0.1773
308	3600.00	0.9	0.05409	0.5965	0.1775	0.1775
309	3605.00	0.9	0.05412	0.597	0.1778	0.1778
310	3660.00	0.9	0.05442	0.6	0.1807	0.1807
311	3665.00	0.9	0.05445	0.6013	0.181	0.181
312	3670.00	0.9	0.05449	0.6013	0.1813	0.1813
313	3675.00	0.9	0.05452	0.6013	0.1816	0.1816
314	3680.00	0.9	0.05454	0.6004	0.1818	0.1818
315	3685.00	0.9	0.05456	0.6009	0.1821	0.1821
316	3690.00	0.9	0.05459	0.6017	0.1824	0.1824
317	3695.00	0.9	0.05459	0.6022	0.1827	0.1827
318	3700.00	0.9	0.05461	0.603	0.1828	0.1828
319	3705.00	0.9	0.05466	0.603	0.1831	0.1831
320	3770.00	0.9	0.05494	0.6091	0.1865	0.1865
321	3775.00	0.9	0.05496	0.61	0.1868	0.1868
322	3780.00	0.9	0.05498	0.6104	0.1871	0.1871
323	3785.00	0.9	0.05499	0.6113	0.1873	0.1873
324	3790.00	0.9	0.05502	0.6117	0.1876	0.1876
325	3795.00	0.9	0.05505	0.6126	0.1879	0.1879
326	3800.00	0.9	0.05508	0.613	0.1881	0.1881
327	3805.00	0.9	0.05509	0.6122	0.1883	0.1883
328	3810.00	0.9	0.05511	0.6117	0.1886	0.1886
329	3815.00	0.9	0.05513	0.6122	0.1889	0.1889
330	3870.00	0.9	0.05539	0.6126	0.1917	0.1917
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332	3880.00	0.9	0.05544	0.6139	0.1923	0.1923
333	3885.00	0.9	0.05548	0.6139	0.1926	0.1926
334	3890.00	0.9	0.05548	0.6148	0.1927	0.1927
335	3895.00	0.9	0.05551	0.6161	0.193	0.193
336	3900.00	0.9	0.05554	0.6152	0.1933	0.1933
337	3905.00	0.9	0.05555	0.6143	0.1936	0.1936
338	3910.00	0.9	0.05556	0.6139	0.1937	0.1937
339	3915.00	0.9	0.05562	0.6143	0.194	0.194
340	3970.00	0.9	0.05589	0.6165	0.1968	0.1968
341	3975.00	0.9	0.05591	0.6152	0.1971	0.1971
342	3980.00	0.9	0.05593	0.6148	0.1974	0.1974
343	3985.00	0.9	0.05595	0.6148	0.1975	0.1975
344	3990.00	0.9	0.05596	0.6161	0.1978	0.1978
345	3995.00	0.9	0.056	0.6169	0.1981	0.1981
346	4000.00	0.9	0.05602	0.6169	0.1983	0.1983
347	4005.00	0.9	0.05603	0.6178	0.1985	0.1985
348	4010.00	0.9	0.05606	0.6187	0.1988	0.1988
349	4015.00	0.9	0.05607	0.6187	0.1991	0.1991
350	4075.00	0.9	0.05642	0.6273	0.202	0.202
351	4080.00	0.9	0.05645	0.6286	0.2023	0.2023
352	4085.00	0.9	0.05648	0.6265	0.2026	0.2026
353	4090.00	0.9	0.05651	0.6273	0.2027	0.2027
354	4095.00	0.9	0.05654	0.6273	0.203	0.203
355	4100.00	0.9	0.05657	0.6265	0.2033	0.2033
356	4105.00	0.9	0.05659	0.6265	0.2036	0.2036
357	4110.00	0.9	0.05661	0.626	0.2037	0.2037
358	4115.00	0.9	0.05662	0.6265	0.204	0.204
359	4120.00	0.9	0.05666	0.6265	0.2043	0.2043
360	4175.00	0.9	0.05692	0.6217	0.2072	0.2072
361	4180.00	0.9	0.05693	0.6217	0.2075	0.2075
362	4185.00	0.9	0.05693	0.6221	0.2078	0.2078
363	4190.00	0.9	0.05696	0.6221	0.2081	0.2081
364	4195.00	0.9	0.057	0.6217	0.2084	0.2084

365	4200.00	0.9	0.05701	0.6204	0.2086	0.2086
366	4205.00	0.9	0.05703	0.62	0.2088	0.2088
367	4210.00	0.9	0.05704	0.6187	0.2091	0.2091
368	4215.00	0.9	0.05707	0.6191	0.2094	0.2094
369	4220.00	0.9	0.05708	0.6191	0.2096	0.2096
370	4290.00	0.9	0.05738	0.6148	0.2134	0.2134
371	4295.00	0.9	0.05738	0.6148	0.2137	0.2137
372	4300.00	0.9	0.05741	0.6139	0.214	0.214
373	4305.00	0.9	0.05744	0.613	0.2143	0.2143
374	4310.00	0.9	0.05745	0.6126	0.2146	0.2146
375	4315.00	0.9	0.05746	0.6126	0.2149	0.2149
376	4320.00	0.9	0.05749	0.6126	0.2151	0.2151
377	4325.00	0.9	0.05751	0.613	0.2154	0.2154
378	4330.00	0.9	0.05752	0.6117	0.2157	0.2157
379	4335.00	0.9	0.05755	0.6117	0.216	0.216
380	4390.00	0.9	0.05774	0.6074	0.2189	0.2189
381	4395.00	0.9	0.05777	0.6078	0.2192	0.2192
382	4400.00	0.9	0.05779	0.6083	0.2195	0.2195
383	4405.00	0.9	0.05779	0.6083	0.2198	0.2198
384	4410.00	0.9	0.05781	0.6083	0.2201	0.2201
385	4415.00	0.9	0.05784	0.6078	0.2204	0.2204
386	4420.00	0.9	0.05786	0.6069	0.2206	0.2206
387	4425.00	0.9	0.05787	0.6078	0.2209	0.2209
388	4430.00	0.9	0.05788	0.6074	0.2212	0.2212
389	4435.00	0.9	0.05788	0.6083	0.2213	0.2213
390	4515.00	0.9	0.05815	0.6048	0.2257	0.2257
391	4520.00	0.9	0.05818	0.6043	0.226	0.226
392	4525.00	0.9	0.05819	0.6035	0.2263	0.2263
393	4530.00	0.9	0.05821	0.6022	0.2266	0.2266
394	4535.00	0.9	0.05822	0.6026	0.227	0.227
395	4540.00	0.9	0.05824	0.6022	0.2273	0.2273
396	4545.00	0.9	0.05825	0.6017	0.2274	0.2274
397	4550.00	0.9	0.05828	0.6013	0.2278	0.2278
398	4555.00	0.9	0.05829	0.6009	0.2281	0.2281
399	4560.00	0.9	0.05831	0.6009	0.2284	0.2284
400	4615.00	0.9	0.0584	0.6009	0.2314	0.2314
401	4620.00	0.9	0.05842	0.6009	0.2315	0.2315
402	4625.00	0.9	0.05843	0.6009	0.2318	0.2318
403	4630.00	0.9	0.05845	0.6017	0.2321	0.2321
404	4635.00	0.9	0.05849	0.6017	0.2323	0.2323
405	4640.00	0.9	0.0585	0.6013	0.2328	0.2328
406	4645.00	0.9	0.05853	0.6013	0.2329	0.2329
407	4650.00	0.9	0.05852	0.6022	0.2332	0.2332
408	4655.00	0.9	0.0585	0.6017	0.2335	0.2335
409	4660.00	0.9	0.05852	0.5996	0.2338	0.2338
410	4715.00	0.9	0.05866	0.6009	0.2367	0.2367
411	4720.00	0.9	0.05866	0.6013	0.237	0.237
412	4725.00	0.9	0.05867	0.6009	0.2373	0.2373
413	4730.00	0.9	0.0587	0.6009	0.2376	0.2376
414	4735.00	0.9	0.05874	0.6013	0.2378	0.2378
415	4740.00	0.9	0.0587	0.6017	0.2381	0.2381
416	4745.00	0.9	0.0587	0.6013	0.2383	0.2383
417	4750.00	0.9	0.0587	0.6022	0.2386	0.2386
418	4755.00	0.9	0.05871	0.6013	0.2388	0.2388
419	4760.00	0.9	0.05873	0.6017	0.2391	0.2391
420	4805.00	0.9	0.05874	0.6013	0.2415	0.2415
421	4810.00	0.9	0.05874	0.6026	0.2417	0.2417
422	4815.00	0.9	0.05874	0.6017	0.2421	0.2421
423	4820.00	0.9	0.05874	0.6013	0.2424	0.2424
424	4825.00	0.9	0.05874	0.6022	0.2426	0.2426
425	4830.00	0.9	0.05877	0.6017	0.2428	0.2428
426	4835.00	0.9	0.05877	0.6009	0.2431	0.2431
427	4840.00	0.9	0.05878	0.6017	0.2434	0.2434
428	4845.00	0.9	0.05878	0.6009	0.2436	0.2436
429	4850.00	0.9	0.05878	0.6013	0.2439	0.2439
430	4905.00	0.9	0.05885	0.6026	0.2469	0.2469
431	4910.00	0.9	0.05884	0.6022	0.2472	0.2472
432	4915.00	0.9	0.05888	0.6013	0.2474	0.2474
433	4920.00	0.9	0.05888	0.6013	0.2477	0.2477
434	4925.00	0.9	0.05888	0.6017	0.248	0.248
435	4930.00	0.9	0.05888	0.6017	0.2483	0.2483
436	4935.00	0.9	0.05888	0.6013	0.2486	0.2486
437	4940.00	0.9	0.0589	0.6013	0.2489	0.2489
438	4945.00	0.9	0.05888	0.6009	0.249	0.249
439	4950.00	0.9	0.0589	0.6009	0.2494	0.2494
440	5005.00	0.9	0.05897	0.603	0.2522	0.2522
441	5010.00	0.9	0.05897	0.6026	0.2524	0.2524
442	5015.00	0.9	0.05898	0.6026	0.2528	0.2528
443	5020.00	0.9	0.05899	0.603	0.2531	0.2531
444	5025.00	0.9	0.05901	0.603	0.2534	0.2534
445	5030.00	0.9	0.05901	0.6043	0.2536	0.2536
446	5035.00	0.9	0.05902	0.6048	0.2539	0.2539
447	5040.00	0.9	0.05902	0.6052	0.2542	0.2542
448	5045.00	0.9	0.05902	0.6056	0.2544	0.2544
449	5050.00	0.9	0.05904	0.6043	0.2548	0.2548
450	5105.00	0.9	0.05911	0.6026	0.2576	0.2576
451	5110.00	0.9	0.05911	0.6035	0.2579	0.2579
452	5115.00	0.9	0.05911	0.6039	0.2582	0.2582
453	5120.00	0.9	0.05913	0.603	0.2584	0.2584
454	5125.00	0.9	0.05913	0.6043	0.2587	0.2587
455	5130.00	0.9	0.05913	0.6056	0.259	0.259
456	5135.00	0.9	0.05916	0.6061	0.2593	0.2593
457	5140.00	0.9	0.05916	0.6052	0.2596	0.2596
458	5145.00	0.9	0.05918	0.6048	0.2599	0.2599
459	5150.00	0.9	0.05919	0.6048	0.2601	0.2601

460	5205. 00	0. 9	0. 0593	0. 5996	0. 2631	0. 2631
461	5210. 00	0. 9	0. 05929	0. 5987	0. 2634	0. 2634
462	5215. 00	0. 9	0. 05932	0. 5983	0. 2637	0. 2637
463	5220. 00	0. 9	0. 05932	0. 5983	0. 2639	0. 2639
464	5225. 00	0. 9	0. 05933	0. 5983	0. 2642	0. 2642
465	5230. 00	0. 9	0. 05933	0. 5987	0. 2645	0. 2645
466	5235. 00	0. 9	0. 05934	0. 5987	0. 2647	0. 2647
467	5240. 00	0. 9	0. 05937	0. 5974	0. 2651	0. 2651
468	5245. 00	0. 9	0. 05934	0. 597	0. 2654	0. 2654
469	5250. 00	0. 9	0. 05939	0. 5965	0. 2655	0. 2655
470	5305. 00	0. 9	0. 05946	0. 5952	0. 2686	0. 2686
471	5310. 00	0. 9	0. 05948	0. 5952	0. 2689	0. 2689
472	5315. 00	0. 9	0. 05948	0. 5948	0. 2692	0. 2692
473	5320. 00	0. 9	0. 0595	0. 5957	0. 2694	0. 2694
474	5325. 00	0. 9	0. 0595	0. 5957	0. 2697	0. 2697
475	5330. 00	0. 9	0. 05951	0. 5961	0. 27	0. 27
476	5335. 00	0. 9	0. 05951	0. 5957	0. 2702	0. 2702
477	5340. 00	0. 9	0. 05951	0. 5948	0. 2706	0. 2706
478	5345. 00	0. 9	0. 05954	0. 5944	0. 2707	0. 2707
479	5350. 00	0. 9	0. 05955	0. 5948	0. 2711	0. 2711
480	5405. 00	0. 9	0. 05961	0. 587	0. 2741	0. 2741
481	5410. 00	0. 9	0. 05964	0. 5866	0. 2745	0. 2745
482	5415. 00	0. 9	0. 05964	0. 5874	0. 2748	0. 2748
483	5420. 00	0. 9	0. 05965	0. 5879	0. 2751	0. 2751
484	5425. 00	0. 9	0. 05967	0. 5866	0. 2754	0. 2754
485	5430. 00	0. 9	0. 05967	0. 5861	0. 2757	0. 2757
486	5435. 00	0. 9	0. 05968	0. 5857	0. 2759	0. 2759
487	5440. 00	0. 9	0. 05968	0. 5857	0. 2762	0. 2762
488	5445. 00	0. 9	0. 05968	0. 5848	0. 2765	0. 2765
489	5450. 00	0. 9	0. 05971	0. 5831	0. 2768	0. 2768
490	5485. 00	0. 9	0. 05989	0. 584	0. 2788	0. 2788
491	5490. 00	0. 9	0. 05992	0. 5835	0. 279	0. 279
492	5495. 00	0. 9	0. 05995	0. 5827	0. 2793	0. 2793
493	5500. 00	0. 9	0. 05996	0. 5822	0. 2796	0. 2796
494	5505. 00	0. 9	0. 05993	0. 5814	0. 2799	0. 2799
495	5510. 00	0. 9	0. 05993	0. 5814	0. 2802	0. 2802
496	5515. 00	0. 9	0. 05993	0. 5809	0. 2805	0. 2805
497	5520. 00	0. 9	0. 05992	0. 5814	0. 2807	0. 2807
498	5525. 00	0. 9	0. 05993	0. 5818	0. 281	0. 281
499	5530. 00	0. 9	0. 05993	0. 5809	0. 2813	0. 2813
500	5580. 00	0. 9	0. 06002	0. 5814	0. 2841	0. 2841
501	5585. 00	0. 9	0. 06002	0. 5814	0. 2844	0. 2844
502	5590. 00	0. 9	0. 06003	0. 5814	0. 2847	0. 2847
503	5595. 00	0. 9	0. 06003	0. 5809	0. 285	0. 285
504	5600. 00	0. 9	0. 06005	0. 5805	0. 2852	0. 2852
505	5605. 00	0. 9	0. 06006	0. 5796	0. 2855	0. 2855
506	5610. 00	0. 9	0. 0601	0. 5775	0. 2858	0. 2858
507	5615. 00	0. 9	0. 06009	0. 5775	0. 2861	0. 2861
508	5620. 00	0. 9	0. 06009	0. 5783	0. 2864	0. 2864
509	5625. 00	0. 9	0. 0601	0. 5779	0. 2867	0. 2867
510	5680. 00	0. 9	0. 0602	0. 577	0. 2898	0. 2898
511	5685. 00	0. 9	0. 06021	0. 577	0. 29	0. 29
512	5690. 00	0. 9	0. 0602	0. 5757	0. 2903	0. 2903
513	5695. 00	0. 9	0. 06021	0. 5749	0. 2906	0. 2906
514	5700. 00	0. 9	0. 06021	0. 5744	0. 2909	0. 2909
515	5705. 00	0. 9	0. 0602	0. 5744	0. 2912	0. 2912
516	5710. 00	0. 9	0. 06023	0. 5749	0. 2916	0. 2916
517	5715. 00	0. 9	0. 06024	0. 5753	0. 2917	0. 2917
518	5720. 00	0. 9	0. 06026	0. 5757	0. 292	0. 292
519	5725. 00	0. 9	0. 06026	0. 5749	0. 2923	0. 2923
520	5780. 00	0. 9	0. 06034	0. 5705	0. 2954	0. 2954
521	5785. 00	0. 9	0. 06035	0. 5714	0. 2957	0. 2957
522	5790. 00	0. 9	0. 0604	0. 5714	0. 296	0. 296
523	5795. 00	0. 9	0. 06042	0. 5714	0. 2963	0. 2963
524	5800. 00	0. 9	0. 06042	0. 571	0. 2965	0. 2965
525	5805. 00	0. 9	0. 06041	0. 5692	0. 2968	0. 2968
526	5810. 00	0. 9	0. 06041	0. 5679	0. 2971	0. 2971
527	5815. 00	0. 9	0. 06041	0. 5679	0. 2974	0. 2974
528	5820. 00	0. 9	0. 06041	0. 5675	0. 2977	0. 2977
529	5825. 00	0. 9	0. 06041	0. 5684	0. 2979	0. 2979
530	5880. 00	0. 9	0. 0605	0. 5662	0. 3009	0. 3009
531	5885. 00	0. 9	0. 06051	0. 5666	0. 3012	0. 3012
532	5890. 00	0. 9	0. 06054	0. 5662	0. 3015	0. 3015
533	5894. 34	0. 9	0. 06052	0. 5649	0. 3018	0. 3018
534	5860. 00	0. 9	0. 0605	0. 5675	0. 2999	0. 2999
535	5865. 00	0. 9	0. 06051	0. 5675	0. 3001	0. 3001
536	5870. 00	0. 9	0. 0605	0. 5684	0. 3003	0. 3003
537	5875. 00	0. 9	0. 06048	0. 5684	0. 3006	0. 3006
538	5880. 00	0. 9	0. 0605	0. 5662	0. 3009	0. 3009
539	5885. 00	0. 9	0. 06051	0. 5666	0. 3012	0. 3012
540	5860. 00	0. 9	0. 0605	0. 5675	0. 2999	0. 2999
541	5865. 00	0. 9	0. 06051	0. 5675	0. 3001	0. 3001
542	5870. 00	0. 9	0. 0605	0. 5684	0. 3003	0. 3003
543	5875. 00	0. 9	0. 06048	0. 5684	0. 3006	0. 3006
544	5880. 00	0. 9	0. 0605	0. 5662	0. 3009	0. 3009
545	5885. 00	0. 9	0. 06051	0. 5666	0. 3012	0. 3012
546	5890. 00	0. 9	0. 06054	0. 5662	0. 3015	0. 3015
547	5894. 34	0. 9	0. 06052	0. 5649	0. 3018	0. 3018
548	5860. 00	0. 9	0. 0605	0. 5675	0. 2999	0. 2999
549	5865. 00	0. 9	0. 06051	0. 5675	0. 3001	0. 3001
550	5885. 00	0. 9	0. 06051	0. 5666	0. 3012	0. 3012
551	5890. 00	0. 9	0. 06054	0. 5662	0. 3015	0. 3015
552	5894. 34	0. 9	0. 06052	0. 5649	0. 3018	0. 3018

DIRECT SHEAR TEST REPORT



Symbol	\odot			
Test No.	5742105BS1B			
Sample No.	OST-1			
Shape	Circular			
Initial	Dimension, in	2.3642		
	Area, in ²	4.3898		
	Height, in	0.95394		
	Water Content, %	20.73		
	Dry Density, pcf	101.3		
	Saturation, %	84.15		
	Void Ratio	0.66628		
	Consol. Height, in	0.94763		
	Consol. Void Ratio	0.65527		
Final	Water Content, %	23.13		
	Dry Density, pcf	103.9		
	Saturation, %	100.01		
	Void Ratio	0.62543		
	Normal Stress, tsf	0.86452		
	Max. Shear Stress, tsf	0.59048		
	Ult. Shear Stress, tsf	0.45218		
	Time to Failure, min	3179.9		

Project: KINGSTON COAL	Disp. Rate, in/min	0.00015748
Location: TN	Measured Specific Gravity	2.70
Project No.: 60095742	Liquid Limit	26
Boring No.: B105B OST-1	Plastic Limit	16
Sample Type: 3" OST	Plasticity Index	10
Description: SILTY CLAY SOME FINE SAND - BROWN (CL)		
Remarks: TEST PERFORMED AS PER ASTM D 3080		

DIRECT SHEAR TEST DATA

Project: KINGSTON COAL
 Boring No.: B105B OST-1
 Sample No.: OST-1
 Test No.: 5742105BS1B

Location: TN
 Tested By: BCM
 Test Date: 02/09/09
 Sample Type: 3" OST

Project No.: 60095742
 Checked By: WPQ
 Depth: 29.5' - 32.0'
 Elevation:

Soil Description: SILTY CLAY SOME FINE SAND - BROWN (CL)
 Remarks: TEST PERFORMED AS PER ASTM D 3080

Step: 1 of 1

	Elapsed Time min	Vertical Stress psi	Vertical Displacement in	Horizontal Stress psi	Horizontal Displacement in	Cumulative Displacement in
1	0.00	12.01	0.006316	0	0	0
2	129.90	12.01	0.01255	3.39	0.0001411	0.0001411
3	134.90	12.01	0.01291	4.076	0.0007054	0.0007054
4	139.90	12.01	0.01304	4.974	0.001129	0.001129
5	144.90	12.01	0.01308	5.431	0.001552	0.001552
6	149.90	12.01	0.01318	5.654	0.001834	0.001834
7	154.90	12.01	0.01321	5.853	0.002116	0.002116
8	159.90	12.01	0.01329	6.027	0.002398	0.002398
9	164.90	12.01	0.01331	6.166	0.00268	0.00268
10	169.90	12.01	0.01333	6.298	0.002963	0.002963
11	174.90	12.01	0.01343	6.419	0.003386	0.003386
12	179.90	12.01	0.01342	6.521	0.003668	0.003668
13	184.90	12.01	0.01343	6.617	0.00395	0.00395
14	189.90	12.01	0.01347	6.714	0.004232	0.004232
15	194.90	12.01	0.01347	6.768	0.004514	0.004514
16	199.90	12.01	0.01356	6.834	0.004796	0.004796
17	204.90	12.01	0.01359	6.864	0.005079	0.005079
18	209.90	12.01	0.01366	6.888	0.005361	0.005361
19	214.90	12.01	0.01363	6.906	0.005643	0.005643
20	219.90	12.01	0.01363	6.937	0.005925	0.005925
21	224.90	12.01	0.01369	6.967	0.006207	0.006207
22	229.90	12.01	0.01376	6.973	0.006489	0.006489
23	234.90	12.01	0.01374	6.985	0.006771	0.006771
24	239.90	12.01	0.0137	6.997	0.007054	0.007054
25	244.90	12.01	0.01374	7.015	0.007336	0.007336
26	249.90	12.01	0.01374	7.027	0.007618	0.007618
27	254.90	12.01	0.01383	7.057	0.0079	0.0079
28	259.90	12.01	0.0138	7.093	0.008182	0.008182
29	264.90	12.01	0.01383	7.111	0.008605	0.008605
30	269.90	12.01	0.0139	7.129	0.008747	0.008747
31	274.90	12.01	0.01388	7.111	0.009029	0.009029
32	279.90	12.01	0.01391	7.141	0.009311	0.009311
33	284.90	12.01	0.01392	7.159	0.009593	0.009593
34	289.90	12.01	0.01401	7.171	0.009875	0.009875
35	294.90	12.01	0.01406	7.171	0.01016	0.01016
36	299.90	12.01	0.01405	7.171	0.01044	0.01044
37	304.90	12.01	0.01408	7.177	0.01072	0.01072
38	309.90	12.01	0.01411	7.153	0.011	0.011
39	314.90	12.01	0.01412	7.147	0.01129	0.01129
40	319.90	12.01	0.01418	7.159	0.01157	0.01157
41	324.90	12.01	0.01415	7.183	0.01185	0.01185
42	329.90	12.01	0.01422	7.165	0.01213	0.01213
43	334.90	12.01	0.01426	7.171	0.01227	0.01227
44	339.90	12.01	0.01427	7.159	0.01256	0.01256
45	344.90	12.01	0.0143	7.159	0.01298	0.01298
46	349.90	12.01	0.01433	7.159	0.01326	0.01326
47	354.90	12.01	0.01433	7.153	0.01354	0.01354
48	359.90	12.01	0.0143	7.141	0.01383	0.01383
49	364.90	12.01	0.01437	7.135	0.01411	0.01411
50	369.90	12.01	0.01436	7.153	0.01439	0.01439
51	374.90	12.01	0.01441	7.153	0.01467	0.01467
52	379.90	12.01	0.01447	7.171	0.01495	0.01495
53	384.90	12.01	0.01449	7.153	0.01509	0.01509
54	389.90	12.01	0.01449	7.159	0.01538	0.01538
55	394.90	12.01	0.01451	7.147	0.01566	0.01566
56	399.90	12.01	0.01451	7.147	0.01594	0.01594
57	404.90	12.01	0.01453	7.165	0.01622	0.01622
58	409.90	12.01	0.0145	7.141	0.01651	0.01651
59	414.90	12.01	0.01447	7.141	0.01679	0.01679
60	419.90	12.01	0.0145	7.159	0.01707	0.01707
61	424.90	12.01	0.01451	7.147	0.01735	0.01735
62	429.90	12.01	0.0145	7.147	0.01763	0.01763
63	434.90	12.01	0.01453	7.135	0.01778	0.01778
64	439.90	12.01	0.0145	7.135	0.01806	0.01806
65	444.90	12.01	0.0145	7.147	0.01834	0.01834
66	449.90	12.01	0.01447	7.153	0.01862	0.01862
67	454.90	12.01	0.01449	7.165	0.0189	0.0189
68	459.90	12.01	0.01449	7.165	0.01919	0.01919
69	464.90	12.01	0.0145	7.195	0.01947	0.01947
70	469.90	12.01	0.01444	7.183	0.01975	0.01975
71	474.90	12.01	0.01446	7.147	0.01989	0.01989
72	479.90	12.01	0.01443	7.159	0.02031	0.02031
73	484.90	12.01	0.01446	7.159	0.0206	0.0206
74	489.90	12.01	0.01443	7.135	0.02074	0.02074
75	494.90	12.01	0.01447	7.147	0.02102	0.02102
76	499.90	12.01	0.01449	7.117	0.0213	0.0213
77	504.90	12.01	0.01447	7.123	0.02158	0.02158
78	509.90	12.01	0.01449	7.117	0.02187	0.02187
79	514.90	12.01	0.0145	7.117	0.02215	0.02215

80	519. 90	12. 01	0. 0145	7. 105	0. 02243	0. 02243
81	524. 90	12. 01	0. 0145	7. 093	0. 02257	0. 02257
82	529. 90	12. 01	0. 01451	7. 081	0. 02285	0. 02285
83	534. 90	12. 01	0. 01451	7. 063	0. 02314	0. 02314
84	539. 90	12. 01	0. 01456	7. 045	0. 02328	0. 02328
85	544. 90	12. 01	0. 0146	7. 039	0. 02356	0. 02356
86	549. 90	12. 01	0. 01458	7. 021	0. 02384	0. 02384
87	554. 90	12. 01	0. 0146	6. 997	0. 02412	0. 02412
88	559. 90	12. 01	0. 01464	7. 009	0. 02441	0. 02441
89	564. 90	12. 01	0. 01464	6. 997	0. 02469	0. 02469
90	569. 90	12. 01	0. 01464	6. 973	0. 02483	0. 02483
91	574. 90	12. 01	0. 01461	6. 979	0. 02511	0. 02511
92	579. 90	12. 01	0. 01461	6. 955	0. 02539	0. 02539
93	584. 90	12. 01	0. 01464	6. 937	0. 02568	0. 02568
94	589. 90	12. 01	0. 01467	6. 931	0. 02596	0. 02596
95	594. 90	12. 01	0. 01468	6. 919	0. 02624	0. 02624
96	599. 90	12. 01	0. 0147	6. 894	0. 02652	0. 02652
97	604. 90	12. 01	0. 01467	6. 882	0. 02666	0. 02666
98	609. 90	12. 01	0. 01465	6. 9	0. 02694	0. 02694
99	614. 90	12. 01	0. 01471	6. 876	0. 02723	0. 02723
100	619. 90	12. 01	0. 01474	6. 912	0. 02751	0. 02751
101	624. 90	12. 01	0. 01474	6. 912	0. 02779	0. 02779
102	629. 90	12. 01	0. 01475	6. 912	0. 02793	0. 02793
103	634. 90	12. 01	0. 01477	6. 912	0. 02821	0. 02821
104	639. 90	12. 01	0. 01478	6. 919	0. 0285	0. 0285
105	644. 90	12. 01	0. 01479	6. 925	0. 02878	0. 02878
106	649. 90	12. 01	0. 01482	6. 919	0. 02906	0. 02906
107	654. 90	12. 01	0. 01484	6. 931	0. 02934	0. 02934
108	659. 90	12. 01	0. 01489	6. 919	0. 02963	0. 02963
109	664. 90	12. 01	0. 01493	6. 925	0. 02977	0. 02977
110	669. 90	12. 01	0. 01495	6. 912	0. 03005	0. 03005
111	674. 90	12. 01	0. 01495	6. 937	0. 03033	0. 03033
112	679. 90	12. 01	0. 01499	6. 943	0. 03061	0. 03061
113	684. 90	12. 01	0. 01498	6. 955	0. 03089	0. 03089
114	689. 90	12. 01	0. 015	6. 967	0. 03118	0. 03118
115	694. 90	12. 01	0. 01499	6. 967	0. 03146	0. 03146
116	699. 90	12. 01	0. 01502	6. 955	0. 0316	0. 0316
117	704. 90	12. 01	0. 01503	6. 943	0. 03188	0. 03188
118	709. 90	12. 01	0. 01505	6. 949	0. 03216	0. 03216
119	714. 90	12. 01	0. 01502	6. 931	0. 03231	0. 03231
120	719. 90	12. 01	0. 01503	6. 919	0. 03259	0. 03259
121	724. 90	12. 01	0. 01509	6. 931	0. 03287	0. 03287
122	729. 90	12. 01	0. 01507	6. 906	0. 03315	0. 03315
123	734. 90	12. 01	0. 0151	6. 888	0. 03343	0. 03343
124	739. 90	12. 01	0. 01513	6. 882	0. 03372	0. 03372
125	744. 90	12. 01	0. 01516	6. 864	0. 03386	0. 03386
126	749. 90	12. 01	0. 01516	6. 846	0. 03414	0. 03414
127	754. 90	12. 01	0. 01519	6. 84	0. 03442	0. 03442
128	759. 90	12. 01	0. 0152	6. 822	0. 0347	0. 0347
129	764. 90	12. 01	0. 01522	6. 834	0. 03484	0. 03484
130	769. 90	12. 01	0. 01522	6. 846	0. 03513	0. 03513
131	774. 90	12. 01	0. 01524	6. 846	0. 03541	0. 03541
132	779. 90	12. 01	0. 01524	6. 852	0. 03555	0. 03555
133	784. 90	12. 01	0. 01529	6. 846	0. 03583	0. 03583
134	789. 90	12. 01	0. 01529	6. 828	0. 03611	0. 03611
135	794. 90	12. 01	0. 01533	6. 816	0. 0364	0. 0364
136	799. 90	12. 01	0. 01534	6. 798	0. 03654	0. 03654
137	804. 90	12. 01	0. 01534	6. 798	0. 03682	0. 03682
138	809. 90	12. 01	0. 01537	6. 804	0. 0371	0. 0371
139	814. 90	12. 01	0. 01536	6. 804	0. 03738	0. 03738
140	819. 90	12. 01	0. 01536	6. 804	0. 03767	0. 03767
141	824. 90	12. 01	0. 01536	6. 81	0. 03795	0. 03795
142	829. 90	12. 01	0. 01536	6. 81	0. 03823	0. 03823
143	834. 90	12. 01	0. 0154	6. 786	0. 03851	0. 03851
144	839. 90	12. 01	0. 0154	6. 768	0. 0388	0. 0388
145	844. 90	12. 01	0. 0154	6. 756	0. 03894	0. 03894
146	849. 90	12. 01	0. 01543	6. 738	0. 03922	0. 03922
147	854. 90	12. 01	0. 01543	6. 732	0. 0395	0. 0395
148	859. 90	12. 01	0. 01544	6. 714	0. 03978	0. 03978
149	864. 90	12. 01	0. 01544	6. 726	0. 03992	0. 03992
150	869. 90	12. 01	0. 01544	6. 708	0. 04021	0. 04021
151	874. 90	12. 01	0. 0155	6. 714	0. 04049	0. 04049
152	879. 90	12. 01	0. 01557	6. 702	0. 04077	0. 04077
153	884. 90	12. 01	0. 01555	6. 684	0. 04105	0. 04105
154	889. 90	12. 01	0. 01557	6. 678	0. 04133	0. 04133
155	894. 90	12. 01	0. 01555	6. 666	0. 04162	0. 04162
156	899. 90	12. 01	0. 01557	6. 648	0. 04176	0. 04176
157	904. 90	12. 01	0. 01559	6. 654	0. 04204	0. 04204
158	909. 90	12. 01	0. 01559	6. 654	0. 04232	0. 04232
159	914. 90	12. 01	0. 01562	6. 654	0. 0426	0. 0426
160	919. 90	12. 01	0. 01566	6. 629	0. 04289	0. 04289
161	924. 90	12. 01	0. 01568	6. 611	0. 04317	0. 04317
162	929. 90	12. 01	0. 01566	6. 599	0. 04345	0. 04345
163	934. 90	12. 01	0. 01568	6. 599	0. 04373	0. 04373
164	939. 90	12. 01	0. 01572	6. 599	0. 04401	0. 04401
165	944. 90	12. 01	0. 01566	6. 593	0. 0443	0. 0443
166	949. 90	12. 01	0. 01569	6. 587	0. 04444	0. 04444
167	954. 90	12. 01	0. 01572	6. 563	0. 04472	0. 04472
168	959. 90	12. 01	0. 01576	6. 551	0. 045	0. 045
169	964. 90	12. 01	0. 01576	6. 545	0. 04528	0. 04528
170	969. 90	12. 01	0. 01578	6. 533	0. 04557	0. 04557
171	974. 90	12. 01	0. 01576	6. 533	0. 04571	0. 04571
172	979. 90	12. 01	0. 01582	6. 533	0. 04599	0. 04599
173	984. 90	12. 01	0. 01582	6. 533	0. 04627	0. 04627
174	989. 90	12. 01	0. 01585	6. 527	0. 04655	0. 04655

175	994. 90	12. 01	0. 01585	6. 527	0. 04684	0. 04684
176	999. 90	12. 01	0. 01587	6. 515	0. 04712	0. 04712
177	1004. 90	12. 01	0. 01589	6. 509	0. 04726	0. 04726
178	1009. 90	12. 01	0. 0159	6. 497	0. 04754	0. 04754
179	1014. 90	12. 01	0. 0159	6. 479	0. 04782	0. 04782
180	1019. 90	12. 01	0. 01594	6. 479	0. 04811	0. 04811
181	1024. 90	12. 01	0. 01596	6. 455	0. 04839	0. 04839
182	1029. 90	12. 01	0. 01594	6. 443	0. 04867	0. 04867
183	1034. 90	12. 01	0. 01599	6. 449	0. 04895	0. 04895
184	1039. 90	12. 01	0. 01606	6. 437	0. 04923	0. 04923
185	1044. 90	12. 01	0. 01606	6. 455	0. 04938	0. 04938
186	1049. 90	12. 01	0. 01603	6. 437	0. 04966	0. 04966
187	1054. 90	12. 01	0. 01606	6. 419	0. 04994	0. 04994
188	1059. 90	12. 01	0. 0161	6. 407	0. 05022	0. 05022
189	1064. 90	12. 01	0. 01613	6. 377	0. 0505	0. 0505
190	1069. 90	12. 01	0. 01617	6. 359	0. 05065	0. 05065
191	1074. 90	12. 01	0. 01618	6. 34	0. 05093	0. 05093
192	1079. 90	12. 01	0. 01617	6. 322	0. 05121	0. 05121
193	1084. 90	12. 01	0. 01623	6. 316	0. 05149	0. 05149
194	1089. 90	12. 01	0. 01623	6. 292	0. 05177	0. 05177
195	1094. 90	12. 01	0. 01618	6. 28	0. 05206	0. 05206
196	1099. 90	12. 01	0. 01627	6. 274	0. 05234	0. 05234
197	1104. 90	12. 01	0. 01625	6. 262	0. 05248	0. 05248
198	1109. 90	12. 01	0. 01631	6. 244	0. 05276	0. 05276
199	1114. 90	12. 01	0. 01648	6. 232	0. 05318	0. 05318
200	1119. 90	12. 01	0. 01663	6. 244	0. 05333	0. 05333
201	1124. 90	12. 01	0. 01667	6. 226	0. 05361	0. 05361
202	1129. 90	12. 01	0. 0167	6. 226	0. 05403	0. 05403
203	1134. 90	12. 01	0. 01669	6. 226	0. 05431	0. 05431
204	1139. 90	12. 01	0. 01667	6. 208	0. 05445	0. 05445
205	1144. 90	12. 01	0. 01665	6. 202	0. 05474	0. 05474
206	1149. 90	12. 01	0. 01666	6. 214	0. 05502	0. 05502
207	1154. 90	12. 01	0. 01666	6. 214	0. 0553	0. 0553
208	1159. 90	12. 01	0. 01672	6. 214	0. 05544	0. 05544
209	1164. 90	12. 01	0. 01676	6. 208	0. 05572	0. 05572
210	1169. 90	12. 01	0. 01683	6. 208	0. 05615	0. 05615
211	1174. 90	12. 01	0. 01687	6. 226	0. 05629	0. 05629
212	1179. 90	12. 01	0. 01693	6. 226	0. 05657	0. 05657
213	1184. 90	12. 01	0. 01697	6. 22	0. 05685	0. 05685
214	1189. 90	12. 01	0. 01703	6. 22	0. 05713	0. 05713
215	1194. 90	12. 01	0. 01703	6. 208	0. 05742	0. 05742
216	1199. 90	12. 01	0. 0171	6. 202	0. 0577	0. 0577
217	1204. 90	12. 01	0. 01711	6. 184	0. 05798	0. 05798
218	1209. 90	12. 01	0. 01714	6. 172	0. 05826	0. 05826
219	1214. 90	12. 01	0. 01714	6. 184	0. 0584	0. 0584
220	1219. 90	12. 01	0. 01714	6. 178	0. 05883	0. 05883
221	1224. 90	12. 01	0. 01717	6. 16	0. 05897	0. 05897
222	1229. 90	12. 01	0. 01721	6. 142	0. 05939	0. 05939
223	1234. 90	12. 01	0. 01726	6. 13	0. 05953	0. 05953
224	1239. 90	12. 01	0. 01728	6. 124	0. 05981	0. 05981
225	1244. 90	12. 01	0. 01731	6. 13	0. 0601	0. 0601
226	1249. 90	12. 01	0. 01733	6. 124	0. 06038	0. 06038
227	1254. 90	12. 01	0. 01733	6. 136	0. 06066	0. 06066
228	1259. 90	12. 01	0. 0174	6. 16	0. 06108	0. 06108
229	1264. 90	12. 01	0. 01738	6. 202	0. 06123	0. 06123
230	1269. 90	12. 01	0. 01746	6. 226	0. 06151	0. 06151
231	1274. 90	12. 01	0. 01746	6. 238	0. 06179	0. 06179
232	1279. 90	12. 01	0. 01749	6. 238	0. 06207	0. 06207
233	1284. 90	12. 01	0. 01749	6. 232	0. 06235	0. 06235
234	1289. 90	12. 01	0. 01753	6. 244	0. 06264	0. 06264
235	1294. 90	12. 01	0. 01752	6. 256	0. 06292	0. 06292
236	1299. 90	12. 01	0. 01753	6. 256	0. 0632	0. 0632
237	1304. 90	12. 01	0. 01754	6. 25	0. 06348	0. 06348
238	1309. 90	12. 01	0. 01752	6. 262	0. 06376	0. 06376
239	1314. 90	12. 01	0. 01757	6. 286	0. 06405	0. 06405
240	1319. 90	12. 01	0. 01762	6. 31	0. 06433	0. 06433
241	1324. 90	12. 01	0. 0176	6. 328	0. 06461	0. 06461
242	1329. 90	12. 01	0. 01766	6. 334	0. 06489	0. 06489
243	1334. 90	12. 01	0. 01769	6. 353	0. 06532	0. 06532
244	1339. 90	12. 01	0. 01773	6. 371	0. 06546	0. 06546
245	1344. 90	12. 01	0. 01776	6. 389	0. 06574	0. 06574
246	1349. 90	12. 01	0. 01776	6. 407	0. 06602	0. 06602
247	1354. 90	12. 01	0. 01774	6. 425	0. 0663	0. 0663
248	1359. 90	12. 01	0. 0178	6. 437	0. 06659	0. 06659
249	1364. 90	12. 01	0. 01784	6. 461	0. 06687	0. 06687
250	1369. 90	12. 01	0. 01784	6. 473	0. 06715	0. 06715
251	1374. 90	12. 01	0. 01788	6. 485	0. 06743	0. 06743
252	1379. 90	12. 01	0. 01791	6. 503	0. 06771	0. 06771
253	1384. 90	12. 01	0. 01792	6. 497	0. 068	0. 068
254	1389. 90	12. 01	0. 01795	6. 497	0. 06828	0. 06828
255	1394. 90	12. 01	0. 01797	6. 515	0. 06856	0. 06856
256	1399. 90	12. 01	0. 01795	6. 521	0. 06884	0. 06884
257	1404. 90	12. 01	0. 01801	6. 539	0. 06913	0. 06913
258	1409. 90	12. 01	0. 01798	6. 533	0. 06941	0. 06941
259	1414. 90	12. 01	0. 01802	6. 551	0. 06969	0. 06969
260	1419. 90	12. 01	0. 01808	6. 563	0. 06997	0. 06997
261	1424. 90	12. 01	0. 01805	6. 581	0. 07025	0. 07025
262	1429. 90	12. 01	0. 01811	6. 611	0. 07054	0. 07054
263	1434. 90	12. 01	0. 01809	6. 623	0. 07082	0. 07082
264	1439. 90	12. 01	0. 01812	6. 617	0. 0711	0. 0711
265	1444. 90	12. 01	0. 01818	6. 636	0. 07138	0. 07138
266	1449. 90	12. 01	0. 01819	6. 66	0. 07167	0. 07167
267	1454. 90	12. 01	0. 01819	6. 666	0. 07195	0. 07195
268	1459. 90	12. 01	0. 01827	6. 672	0. 07223	0. 07223
269	1464. 90	12. 01	0. 01826	6. 672	0. 07251	0. 07251

270	1469. 90	12. 01	0. 01826	6. 684	0. 07265	0. 07265
271	1474. 90	12. 01	0. 0183	6. 708	0. 07308	0. 07308
272	1479. 90	12. 01	0. 01832	6. 72	0. 07336	0. 07336
273	1484. 90	12. 01	0. 01833	6. 72	0. 07364	0. 07364
274	1489. 90	12. 01	0. 0184	6. 708	0. 07392	0. 07392
275	1494. 90	12. 01	0. 01842	6. 714	0. 07406	0. 07406
276	1499. 90	12. 01	0. 0184	6. 714	0. 07435	0. 07435
277	1504. 90	12. 01	0. 0184	6. 72	0. 07477	0. 07477
278	1509. 90	12. 01	0. 01842	6. 732	0. 07505	0. 07505
279	1514. 90	12. 01	0. 01844	6. 744	0. 07533	0. 07533
280	1519. 90	12. 01	0. 01849	6. 75	0. 07562	0. 07562
281	1524. 90	12. 01	0. 01847	6. 78	0. 0759	0. 0759
282	1529. 90	12. 01	0. 01844	6. 786	0. 07618	0. 07618
283	1534. 90	12. 01	0. 01847	6. 798	0. 07646	0. 07646
284	1539. 90	12. 01	0. 01851	6. 822	0. 07674	0. 07674
285	1544. 90	12. 01	0. 01854	6. 84	0. 07703	0. 07703
286	1549. 90	12. 01	0. 01854	6. 864	0. 07731	0. 07731
287	1554. 90	12. 01	0. 01858	6. 87	0. 07759	0. 07759
288	1559. 90	12. 01	0. 01865	6. 864	0. 07787	0. 07787
289	1564. 90	12. 01	0. 01863	6. 87	0. 07815	0. 07815
290	1569. 90	12. 01	0. 01867	6. 858	0. 07844	0. 07844
291	1574. 90	12. 01	0. 01867	6. 876	0. 07872	0. 07872
292	1579. 90	12. 01	0. 01865	6. 882	0. 079	0. 079
293	1584. 90	12. 01	0. 0187	6. 882	0. 07928	0. 07928
294	1589. 90	12. 01	0. 01872	6. 9	0. 07957	0. 07957
295	1594. 90	12. 01	0. 01877	6. 912	0. 07985	0. 07985
296	1599. 90	12. 01	0. 01885	6. 9	0. 08013	0. 08013
297	1604. 90	12. 01	0. 01889	6. 894	0. 08041	0. 08041
298	1609. 90	12. 01	0. 01886	6. 9	0. 08069	0. 08069
299	1614. 90	12. 01	0. 01888	6. 894	0. 08098	0. 08098
300	1619. 90	12. 01	0. 01892	6. 912	0. 08126	0. 08126
301	1624. 90	12. 01	0. 01896	6. 931	0. 08154	0. 08154
302	1629. 90	12. 01	0. 01893	6. 906	0. 08182	0. 08182
303	1634. 90	12. 01	0. 01893	6. 925	0. 0821	0. 0821
304	1639. 90	12. 01	0. 01898	6. 937	0. 08239	0. 08239
305	1644. 90	12. 01	0. 01899	6. 949	0. 08267	0. 08267
306	1649. 90	12. 01	0. 01903	6. 967	0. 08295	0. 08295
307	1654. 90	12. 01	0. 01909	6. 985	0. 08323	0. 08323
308	1659. 90	12. 01	0. 01906	7. 003	0. 08352	0. 08352
309	1664. 90	12. 01	0. 01906	7. 021	0. 08366	0. 08366
310	1669. 90	12. 01	0. 01907	7. 021	0. 08394	0. 08394
311	1674. 90	12. 01	0. 0191	7. 033	0. 08422	0. 08422
312	1679. 90	12. 01	0. 01916	7. 051	0. 0845	0. 0845
313	1684. 90	12. 01	0. 0192	7. 051	0. 08478	0. 08478
314	1689. 90	12. 01	0. 01917	7. 051	0. 08507	0. 08507
315	1694. 90	12. 01	0. 0192	7. 069	0. 08535	0. 08535
316	1699. 90	12. 01	0. 0192	7. 075	0. 08563	0. 08563
317	1704. 90	12. 01	0. 01926	7. 081	0. 08591	0. 08591
318	1709. 90	12. 01	0. 01926	7. 105	0. 0862	0. 0862
319	1714. 90	12. 01	0. 01927	7. 087	0. 08648	0. 08648
320	1719. 90	12. 01	0. 01936	7. 111	0. 08676	0. 08676
321	1724. 90	12. 01	0. 01936	7. 117	0. 08704	0. 08704
322	1729. 90	12. 01	0. 0194	7. 111	0. 08732	0. 08732
323	1734. 90	12. 01	0. 01943	7. 117	0. 08761	0. 08761
324	1739. 90	12. 01	0. 01945	7. 111	0. 08789	0. 08789
325	1744. 90	12. 01	0. 01945	7. 135	0. 08817	0. 08817
326	1749. 90	12. 01	0. 0194	7. 111	0. 08845	0. 08845
327	1754. 90	12. 01	0. 0194	7. 111	0. 08873	0. 08873
328	1759. 90	12. 01	0. 01948	7. 129	0. 08902	0. 08902
329	1764. 90	12. 01	0. 01948	7. 123	0. 0893	0. 0893
330	1769. 90	12. 01	0. 0195	7. 129	0. 08958	0. 08958
331	1774. 90	12. 01	0. 01943	7. 141	0. 08986	0. 08986
332	1779. 90	12. 01	0. 01945	7. 141	0. 09015	0. 09015
333	1784. 90	12. 01	0. 01943	7. 147	0. 09043	0. 09043
334	1789. 90	12. 01	0. 01947	7. 159	0. 09071	0. 09071
335	1794. 90	12. 01	0. 01951	7. 171	0. 09113	0. 09113
336	1799. 90	12. 01	0. 0195	7. 147	0. 09127	0. 09127
337	1804. 90	12. 01	0. 0195	7. 165	0. 09156	0. 09156
338	1809. 90	12. 01	0. 0195	7. 189	0. 09184	0. 09184
339	1814. 90	12. 01	0. 01952	7. 202	0. 09226	0. 09226
340	1819. 90	12. 01	0. 01955	7. 22	0. 0924	0. 0924
341	1824. 90	12. 01	0. 01957	7. 22	0. 09283	0. 09283
342	1829. 90	12. 01	0. 01959	7. 214	0. 09311	0. 09311
343	1834. 90	12. 01	0. 01958	7. 195	0. 09325	0. 09325
344	1839. 90	12. 01	0. 01954	7. 202	0. 09353	0. 09353
345	1844. 90	12. 01	0. 01957	7. 214	0. 09381	0. 09381
346	1849. 90	12. 01	0. 01955	7. 232	0. 0941	0. 0941
347	1854. 90	12. 01	0. 01954	7. 208	0. 09438	0. 09438
348	1859. 90	12. 01	0. 01951	7. 22	0. 09452	0. 09452
349	1864. 90	12. 01	0. 01952	7. 226	0. 09494	0. 09494
350	1869. 90	12. 01	0. 0195	7. 232	0. 09508	0. 09508
351	1874. 90	12. 01	0. 01947	7. 226	0. 09537	0. 09537
352	1879. 90	12. 01	0. 01948	7. 238	0. 09565	0. 09565
353	1884. 90	12. 01	0. 01947	7. 244	0. 09593	0. 09593
354	1889. 90	12. 01	0. 01944	7. 238	0. 09621	0. 09621
355	1894. 90	12. 01	0. 0195	7. 238	0. 09663	0. 09663
356	1899. 90	12. 01	0. 0195	7. 25	0. 09678	0. 09678
357	1904. 90	12. 01	0. 0195	7. 262	0. 09706	0. 09706
358	1909. 90	12. 01	0. 01952	7. 25	0. 09734	0. 09734
359	1914. 90	12. 01	0. 01951	7. 25	0. 09762	0. 09762
360	1919. 90	12. 01	0. 0195	7. 238	0. 0979	0. 0979
361	1924. 90	12. 01	0. 0195	7. 244	0. 09819	0. 09819
362	1929. 90	12. 01	0. 0195	7. 262	0. 09847	0. 09847
363	1934. 90	12. 01	0. 01948	7. 25	0. 09875	0. 09875
364	1939. 90	12. 01	0. 01944	7. 25	0. 09903	0. 09903

365	1944. 90	12. 01	0. 0195	7. 268	0. 09932	0. 09932
366	1949. 90	12. 01	0. 01947	7. 28	0. 0996	0. 0996
367	1954. 90	12. 01	0. 01947	7. 256	0. 09988	0. 09988
368	1959. 90	12. 01	0. 0195	7. 28	0. 1002	0. 1002
369	1964. 90	12. 01	0. 01944	7. 274	0. 1004	0. 1004
370	1969. 90	12. 01	0. 01947	7. 262	0. 1006	0. 1006
371	1974. 90	12. 01	0. 0195	7. 286	0. 1009	0. 1009
372	1979. 90	12. 01	0. 01948	7. 31	0. 1011	0. 1011
373	1984. 90	12. 01	0. 01948	7. 31	0. 1014	0. 1014
374	1989. 90	12. 01	0. 01941	7. 316	0. 1017	0. 1017
375	1994. 90	12. 01	0. 01947	7. 322	0. 102	0. 102
376	1999. 90	12. 01	0. 01944	7. 31	0. 1023	0. 1023
377	2004. 90	12. 01	0. 01945	7. 316	0. 1026	0. 1026
378	2009. 90	12. 01	0. 0195	7. 316	0. 1028	0. 1028
379	2014. 90	12. 01	0. 0195	7. 322	0. 1031	0. 1031
380	2019. 90	12. 01	0. 01951	7. 334	0. 1034	0. 1034
381	2024. 90	12. 01	0. 01947	7. 352	0. 1037	0. 1037
382	2029. 90	12. 01	0. 01952	7. 376	0. 104	0. 104
383	2034. 90	12. 01	0. 0195	7. 376	0. 1043	0. 1043
384	2039. 90	12. 01	0. 01947	7. 358	0. 1045	0. 1045
385	2044. 90	12. 01	0. 01948	7. 364	0. 1047	0. 1047
386	2049. 90	12. 01	0. 01947	7. 376	0. 105	0. 105
387	2054. 90	12. 01	0. 01943	7. 376	0. 1052	0. 1052
388	2059. 90	12. 01	0. 01944	7. 382	0. 1055	0. 1055
389	2064. 90	12. 01	0. 01945	7. 376	0. 1059	0. 1059
390	2069. 90	12. 01	0. 01944	7. 382	0. 1062	0. 1062
391	2074. 90	12. 01	0. 01945	7. 388	0. 1064	0. 1064
392	2079. 90	12. 01	0. 01951	7. 388	0. 1067	0. 1067
393	2084. 90	12. 01	0. 01951	7. 394	0. 1069	0. 1069
394	2089. 90	12. 01	0. 01948	7. 388	0. 1072	0. 1072
395	2094. 90	12. 01	0. 01951	7. 406	0. 1075	0. 1075
396	2099. 90	12. 01	0. 01952	7. 412	0. 1078	0. 1078
397	2104. 90	12. 01	0. 01955	7. 412	0. 1081	0. 1081
398	2109. 90	12. 01	0. 01955	7. 448	0. 1083	0. 1083
399	2114. 90	12. 01	0. 01952	7. 448	0. 1086	0. 1086
400	2119. 90	12. 01	0. 01952	7. 478	0. 1089	0. 1089
401	2124. 90	12. 01	0. 01957	7. 472	0. 1093	0. 1093
402	2129. 90	12. 01	0. 01959	7. 478	0. 1096	0. 1096
403	2134. 90	12. 01	0. 01957	7. 478	0. 1099	0. 1099
404	2139. 90	12. 01	0. 01958	7. 478	0. 1102	0. 1102
405	2144. 90	12. 01	0. 01957	7. 478	0. 1105	0. 1105
406	2149. 90	12. 01	0. 01957	7. 491	0. 1106	0. 1106
407	2154. 90	12. 01	0. 01959	7. 503	0. 1109	0. 1109
408	2159. 90	12. 01	0. 01959	7. 509	0. 1112	0. 1112
409	2164. 90	12. 01	0. 01964	7. 509	0. 1114	0. 1114
410	2169. 90	12. 01	0. 01962	7. 503	0. 1117	0. 1117
411	2174. 90	12. 01	0. 01961	7. 497	0. 112	0. 112
412	2179. 90	12. 01	0. 01957	7. 497	0. 1123	0. 1123
413	2184. 90	12. 01	0. 01959	7. 478	0. 1126	0. 1126
414	2189. 90	12. 01	0. 01961	7. 491	0. 1129	0. 1129
415	2194. 90	12. 01	0. 01959	7. 497	0. 1131	0. 1131
416	2199. 90	12. 01	0. 01959	7. 497	0. 1134	0. 1134
417	2204. 90	12. 01	0. 01961	7. 503	0. 1137	0. 1137
418	2209. 90	12. 01	0. 01962	7. 521	0. 114	0. 114
419	2214. 90	12. 01	0. 01965	7. 539	0. 1143	0. 1143
420	2219. 90	12. 01	0. 01965	7. 533	0. 1146	0. 1146
421	2224. 90	12. 01	0. 01968	7. 527	0. 1148	0. 1148
422	2229. 90	12. 01	0. 01968	7. 533	0. 1151	0. 1151
423	2234. 90	12. 01	0. 01968	7. 545	0. 1153	0. 1153
424	2239. 90	12. 01	0. 01971	7. 545	0. 1155	0. 1155
425	2244. 90	12. 01	0. 01972	7. 563	0. 1158	0. 1158
426	2249. 90	12. 01	0. 01973	7. 551	0. 1161	0. 1161
427	2254. 90	12. 01	0. 01971	7. 551	0. 1164	0. 1164
428	2259. 90	12. 01	0. 01979	7. 551	0. 1167	0. 1167
429	2264. 90	12. 01	0. 01972	7. 557	0. 1169	0. 1169
430	2269. 90	12. 01	0. 01972	7. 557	0. 1172	0. 1172
431	2274. 90	12. 01	0. 01975	7. 557	0. 1175	0. 1175
432	2279. 90	12. 01	0. 01976	7. 545	0. 1178	0. 1178
433	2284. 90	12. 01	0. 01975	7. 539	0. 1181	0. 1181
434	2289. 90	12. 01	0. 01978	7. 551	0. 1184	0. 1184
435	2294. 90	12. 01	0. 01982	7. 545	0. 1186	0. 1186
436	2299. 90	12. 01	0. 01985	7. 551	0. 1189	0. 1189
437	2304. 90	12. 01	0. 01982	7. 539	0. 1192	0. 1192
438	2309. 90	12. 01	0. 01979	7. 533	0. 1195	0. 1195
439	2314. 90	12. 01	0. 01978	7. 533	0. 1198	0. 1198
440	2319. 90	12. 01	0. 01979	7. 545	0. 1201	0. 1201
441	2324. 90	12. 01	0. 01976	7. 551	0. 1203	0. 1203
442	2329. 90	12. 01	0. 01979	7. 557	0. 1206	0. 1206
443	2334. 90	12. 01	0. 01978	7. 569	0. 1209	0. 1209
444	2339. 90	12. 01	0. 0198	7. 575	0. 1212	0. 1212
445	2344. 90	12. 01	0. 01982	7. 581	0. 1215	0. 1215
446	2349. 90	12. 01	0. 01983	7. 569	0. 1217	0. 1217
447	2354. 90	12. 01	0. 01985	7. 575	0. 122	0. 122
448	2359. 90	12. 01	0. 01985	7. 569	0. 1223	0. 1223
449	2364. 90	12. 01	0. 01986	7. 569	0. 1226	0. 1226
450	2369. 90	12. 01	0. 01985	7. 563	0. 1229	0. 1229
451	2374. 90	12. 01	0. 01985	7. 569	0. 1232	0. 1232
452	2379. 90	12. 01	0. 01986	7. 569	0. 1234	0. 1234
453	2384. 90	12. 01	0. 01986	7. 563	0. 1237	0. 1237
454	2389. 90	12. 01	0. 01985	7. 581	0. 124	0. 124
455	2394. 90	12. 01	0. 01985	7. 593	0. 1243	0. 1243
456	2399. 90	12. 01	0. 01987	7. 617	0. 1246	0. 1246
457	2404. 90	12. 01	0. 01987	7. 629	0. 1248	0. 1248
458	2409. 90	12. 01	0. 01987	7. 629	0. 1251	0. 1251
459	2414. 90	12. 01	0. 01992	7. 629	0. 1254	0. 1254

460	2419. 90	12. 01	0. 01989	7. 629	0. 1257	0. 1257
461	2424. 90	12. 01	0. 0199	7. 623	0. 126	0. 126
462	2429. 90	12. 01	0. 01993	7. 623	0. 1263	0. 1263
463	2434. 90	12. 01	0. 01989	7. 623	0. 1265	0. 1265
464	2439. 90	12. 01	0. 01992	7. 629	0. 1268	0. 1268
465	2444. 90	12. 01	0. 0199	7. 641	0. 1271	0. 1271
466	2449. 90	12. 01	0. 01993	7. 647	0. 1274	0. 1274
467	2454. 90	12. 01	0. 01995	7. 647	0. 1277	0. 1277
468	2459. 90	12. 01	0. 01989	7. 653	0. 1278	0. 1278
469	2464. 90	12. 01	0. 01992	7. 653	0. 1282	0. 1282
470	2469. 90	12. 01	0. 01993	7. 653	0. 1285	0. 1285
471	2474. 90	12. 01	0. 0199	7. 659	0. 1288	0. 1288
472	2479. 90	12. 01	0. 01996	7. 665	0. 1291	0. 1291
473	2484. 90	12. 01	0. 01995	7. 653	0. 1294	0. 1294
474	2489. 90	12. 01	0. 01996	7. 653	0. 1296	0. 1296
475	2494. 90	12. 01	0. 01996	7. 623	0. 1299	0. 1299
476	2499. 90	12. 01	0. 01999	7. 617	0. 1302	0. 1302
477	2504. 90	12. 01	0. 01999	7. 635	0. 1306	0. 1306
478	2509. 90	12. 01	0. 02	7. 665	0. 1308	0. 1308
479	2514. 90	12. 01	0. 01999	7. 671	0. 1312	0. 1312
480	2519. 90	12. 01	0. 02	7. 689	0. 1313	0. 1313
481	2524. 90	12. 01	0. 02	7. 707	0. 1316	0. 1316
482	2529. 90	12. 01	0. 02003	7. 695	0. 132	0. 132
483	2534. 90	12. 01	0. 02006	7. 707	0. 1322	0. 1322
484	2539. 90	12. 01	0. 02003	7. 701	0. 1325	0. 1325
485	2544. 90	12. 01	0. 0202	7. 701	0. 1327	0. 1327
486	2549. 90	12. 01	0. 02039	7. 707	0. 133	0. 133
487	2554. 90	12. 01	0. 0206	7. 707	0. 1333	0. 1333
488	2559. 90	12. 01	0. 02077	7. 707	0. 1337	0. 1337
489	2564. 90	12. 01	0. 02094	7. 725	0. 134	0. 134
490	2569. 90	12. 01	0. 02103	7. 719	0. 1343	0. 1343
491	2574. 90	12. 01	0. 02115	7. 731	0. 1347	0. 1347
492	2579. 90	12. 01	0. 02126	7. 743	0. 135	0. 135
493	2584. 90	12. 01	0. 02126	7. 755	0. 1351	0. 1351
494	2589. 90	12. 01	0. 02124	7. 78	0. 1356	0. 1356
495	2594. 90	12. 01	0. 02124	7. 798	0. 1359	0. 1359
496	2599. 90	12. 01	0. 02121	7. 81	0. 1361	0. 1361
497	2604. 90	12. 01	0. 02117	7. 81	0. 1364	0. 1364
498	2609. 90	12. 01	0. 02115	7. 81	0. 1367	0. 1367
499	2614. 90	12. 01	0. 02111	7. 816	0. 137	0. 137
500	2619. 90	12. 01	0. 02115	7. 822	0. 1373	0. 1373
501	2624. 90	12. 01	0. 02112	7. 816	0. 1375	0. 1375
502	2629. 90	12. 01	0. 02111	7. 798	0. 1378	0. 1378
503	2634. 90	12. 01	0. 02111	7. 798	0. 1381	0. 1381
504	2639. 90	12. 01	0. 02114	7. 804	0. 1384	0. 1384
505	2644. 90	12. 01	0. 0211	7. 822	0. 1387	0. 1387
506	2649. 90	12. 01	0. 0211	7. 828	0. 139	0. 139
507	2654. 90	12. 01	0. 02104	7. 846	0. 1392	0. 1392
508	2659. 90	12. 01	0. 02103	7. 834	0. 1395	0. 1395
509	2664. 90	12. 01	0. 02097	7. 852	0. 1398	0. 1398
510	2669. 90	12. 01	0. 02098	7. 864	0. 1401	0. 1401
511	2674. 90	12. 01	0. 02098	7. 888	0. 1404	0. 1404
512	2679. 90	12. 01	0. 021	7. 876	0. 1406	0. 1406
513	2684. 90	12. 01	0. 02097	7. 876	0. 1411	0. 1411
514	2689. 90	12. 01	0. 02103	7. 888	0. 1414	0. 1414
515	2694. 90	12. 01	0. 02103	7. 894	0. 1416	0. 1416
516	2699. 90	12. 01	0. 02104	7. 9	0. 1418	0. 1418
517	2704. 90	12. 01	0. 0211	7. 906	0. 1421	0. 1421
518	2709. 90	12. 01	0. 02108	7. 912	0. 1423	0. 1423
519	2714. 90	12. 01	0. 02112	7. 912	0. 1426	0. 1426
520	2719. 90	12. 01	0. 02112	7. 912	0. 1429	0. 1429
521	2724. 90	12. 01	0. 02114	7. 924	0. 1433	0. 1433
522	2729. 90	12. 01	0. 02114	7. 942	0. 1436	0. 1436
523	2734. 90	12. 01	0. 02117	7. 948	0. 1439	0. 1439
524	2739. 90	12. 01	0. 02117	7. 948	0. 1442	0. 1442
525	2744. 90	12. 01	0. 02117	7. 954	0. 1445	0. 1445
526	2749. 90	12. 01	0. 02118	7. 954	0. 1447	0. 1447
527	2754. 90	12. 01	0. 02124	7. 96	0. 145	0. 145
528	2759. 90	12. 01	0. 02121	7. 984	0. 1453	0. 1453
529	2764. 90	12. 01	0. 02121	7. 99	0. 1456	0. 1456
530	2769. 90	12. 01	0. 02119	8. 008	0. 1459	0. 1459
531	2774. 90	12. 01	0. 02122	8. 026	0. 1462	0. 1462
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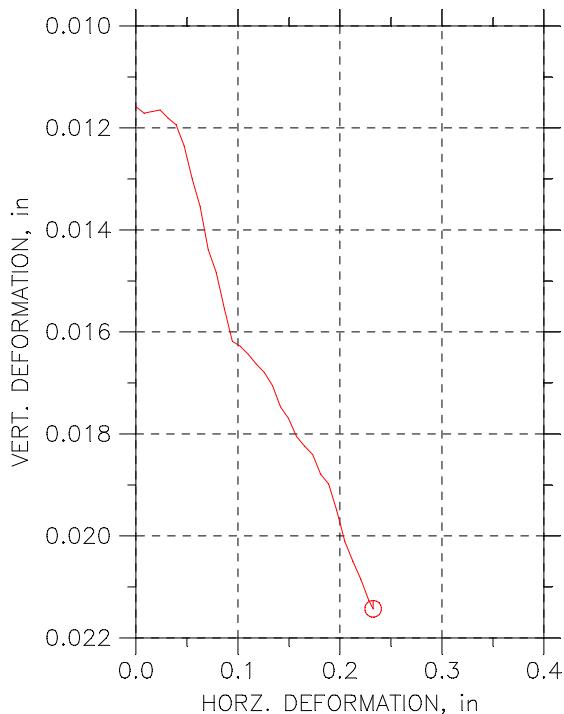
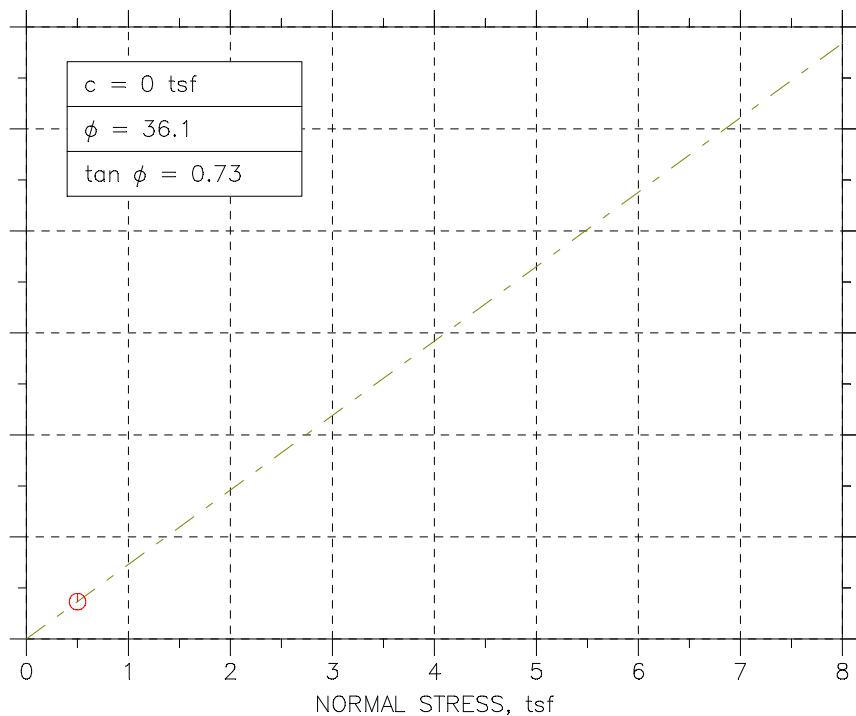
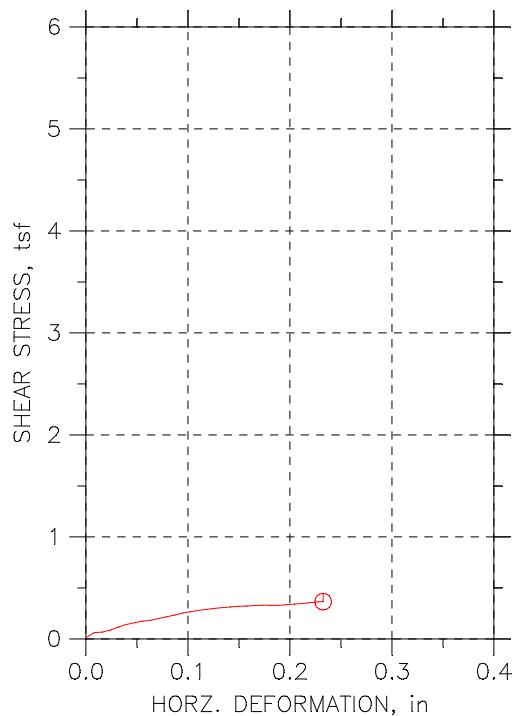
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782	4029. 90	12. 01	0. 02309	6. 617	0. 2139	0. 2139
783	4034. 90	12. 01	0. 0231	6. 617	0. 2141	0. 2141
784	4039. 90	12. 01	0. 02306	6. 617	0. 2144	0. 2144
785	4044. 90	12. 01	0. 023	6. 611	0. 2147	0. 2147
786	4049. 90	12. 01	0. 02298	6. 593	0. 215	0. 215
787	4054. 90	12. 01	0. 02296	6. 569	0. 2153	0. 2153
788	4059. 90	12. 01	0. 02296	6. 557	0. 2154	0. 2154
789	4064. 90	12. 01	0. 02293	6. 557	0. 2158	0. 2158
790	4069. 90	12. 01	0. 02292	6. 551	0. 216	0. 216
791	4074. 90	12. 01	0. 02292	6. 551	0. 2163	0. 2163
792	4079. 90	12. 01	0. 02288	6. 545	0. 2165	0. 2165
793	4084. 90	12. 01	0. 02289	6. 539	0. 2168	0. 2168
794	4089. 90	12. 01	0. 02291	6. 539	0. 2171	0. 2171
795	4094. 90	12. 01	0. 02289	6. 545	0. 2174	0. 2174
796	4099. 90	12. 01	0. 02286	6. 539	0. 2175	0. 2175
797	4104. 90	12. 01	0. 02286	6. 527	0. 2178	0. 2178
798	4109. 90	12. 01	0. 02285	6. 521	0. 2181	0. 2181
799	4114. 90	12. 01	0. 02285	6. 515	0. 2184	0. 2184
800	4119. 90	12. 01	0. 02285	6. 491	0. 2187	0. 2187
801	4124. 90	12. 01	0. 02281	6. 467	0. 2189	0. 2189
802	4129. 90	12. 01	0. 02284	6. 455	0. 2192	0. 2192
803	4134. 90	12. 01	0. 02284	6. 461	0. 2195	0. 2195
804	4139. 90	12. 01	0. 02285	6. 461	0. 2198	0. 2198
805	4144. 90	12. 01	0. 02285	6. 467	0. 2201	0. 2201
806	4149. 90	12. 01	0. 02286	6. 461	0. 2202	0. 2202
807	4154. 90	12. 01	0. 02285	6. 455	0. 2206	0. 2206
808	4159. 90	12. 01	0. 02284	6. 449	0. 2209	0. 2209
809	4164. 90	12. 01	0. 02286	6. 443	0. 2211	0. 2211
810	4169. 90	12. 01	0. 02288	6. 437	0. 2213	0. 2213
811	4174. 90	12. 01	0. 02278	6. 437	0. 2216	0. 2216
812	4179. 90	12. 01	0. 02277	6. 443	0. 2219	0. 2219
813	4184. 90	12. 01	0. 02279	6. 437	0. 2222	0. 2222
814	4189. 90	12. 01	0. 02279	6. 437	0. 2225	0. 2225
815	4194. 90	12. 01	0. 02282	6. 437	0. 2228	0. 2228
816	4199. 90	12. 01	0. 02284	6. 425	0. 223	0. 223
817	4204. 90	12. 01	0. 02285	6. 407	0. 2233	0. 2233
818	4209. 90	12. 01	0. 02292	6. 395	0. 2236	0. 2236
819	4214. 90	12. 01	0. 02293	6. 395	0. 2239	0. 2239
820	4219. 90	12. 01	0. 02293	6. 389	0. 2242	0. 2242
821	4224. 90	12. 01	0. 02295	6. 389	0. 2244	0. 2244
822	4229. 90	12. 01	0. 02296	6. 395	0. 2247	0. 2247
823	4234. 90	12. 01	0. 02295	6. 401	0. 225	0. 225
824	4239. 90	12. 01	0. 02293	6. 395	0. 2253	0. 2253
825	4244. 90	12. 01	0. 02293	6. 401	0. 2254	0. 2254
826	4249. 90	12. 01	0. 02298	6. 407	0. 2259	0. 2259
827	4254. 90	12. 01	0. 023	6. 407	0. 226	0. 226
828	4259. 90	12. 01	0. 023	6. 389	0. 2264	0. 2264
829	4264. 90	12. 01	0. 02302	6. 377	0. 2267	0. 2267
830	4269. 90	12. 01	0. 02308	6. 365	0. 227	0. 227
831	4274. 90	12. 01	0. 02312	6. 371	0. 2273	0. 2273
832	4279. 90	12. 01	0. 02313	6. 365	0. 2274	0. 2274
833	4284. 90	12. 01	0. 02312	6. 371	0. 2277	0. 2277
834	4289. 90	12. 01	0. 02309	6. 359	0. 228	0. 228
835	4294. 90	12. 01	0. 02309	6. 359	0. 2283	0. 2283
836	4299. 90	12. 01	0. 02313	6. 346	0. 2285	0. 2285
837	4304. 90	12. 01	0. 02316	6. 346	0. 2288	0. 2288
838	4309. 90	12. 01	0. 02317	6. 328	0. 2291	0. 2291
839	4314. 90	12. 01	0. 02322	6. 322	0. 2294	0. 2294

840	4319. 90	12. 01	0. 0232	6. 316	0. 2297	0. 2297
841	4324. 90	12. 01	0. 02327	6. 316	0. 2299	0. 2299
842	4329. 90	12. 01	0. 02324	6. 31	0. 2302	0. 2302
843	4334. 90	12. 01	0. 02324	6. 304	0. 2305	0. 2305
844	4339. 90	12. 01	0. 02324	6. 322	0. 2308	0. 2308
845	4344. 90	12. 01	0. 02329	6. 322	0. 2311	0. 2311
846	4349. 90	12. 01	0. 02324	6. 316	0. 2314	0. 2314
847	4354. 90	12. 01	0. 02329	6. 31	0. 2316	0. 2316
848	4359. 90	12. 01	0. 02327	6. 304	0. 2319	0. 2319
849	4364. 90	12. 01	0. 02316	6. 304	0. 2322	0. 2322
850	4369. 90	12. 01	0. 02313	6. 31	0. 2325	0. 2325
851	4374. 90	12. 01	0. 02316	6. 298	0. 2328	0. 2328
852	4379. 90	12. 01	0. 02316	6. 31	0. 2331	0. 2331
853	4384. 90	12. 01	0. 02319	6. 304	0. 2333	0. 2333
854	4389. 90	12. 01	0. 02319	6. 304	0. 2336	0. 2336
855	4394. 90	12. 01	0. 02323	6. 286	0. 2339	0. 2339
856	4399. 90	12. 01	0. 02323	6. 28	0. 2342	0. 2342
857	4404. 90	12. 01	0. 02322	6. 286	0. 2343	0. 2343
858	4409. 90	12. 01	0. 02324	6. 274	0. 2347	0. 2347
859	4414. 90	12. 01	0. 02326	6. 268	0. 235	0. 235
860	4419. 90	12. 01	0. 02326	6. 268	0. 2353	0. 2353
861	4424. 90	12. 01	0. 02324	6. 268	0. 2356	0. 2356
862	4429. 90	12. 01	0. 02324	6. 268	0. 2359	0. 2359
863	4434. 90	12. 01	0. 02329	6. 268	0. 2362	0. 2362
864	4439. 90	12. 01	0. 02331	6. 262	0. 2364	0. 2364
865	4444. 90	12. 01	0. 0233	6. 25	0. 2367	0. 2367
866	4449. 90	12. 01	0. 0233	6. 238	0. 237	0. 237
867	4454. 90	12. 01	0. 02337	6. 226	0. 2373	0. 2373
868	4459. 90	12. 01	0. 02338	6. 22	0. 2376	0. 2376
869	4464. 90	12. 01	0. 0234	6. 226	0. 2378	0. 2378
870	4469. 90	12. 01	0. 02341	6. 22	0. 2381	0. 2381
871	4474. 90	12. 01	0. 02344	6. 202	0. 2384	0. 2384
872	4479. 90	12. 01	0. 02341	6. 202	0. 2387	0. 2387
873	4484. 90	12. 01	0. 02343	6. 202	0. 239	0. 239
874	4489. 90	12. 01	0. 02344	6. 202	0. 2393	0. 2393
875	4494. 90	12. 01	0. 02345	6. 196	0. 2395	0. 2395
876	4499. 90	12. 01	0. 02345	6. 196	0. 2398	0. 2398
877	4504. 90	12. 01	0. 0235	6. 19	0. 2401	0. 2401
878	4509. 90	12. 01	0. 02348	6. 196	0. 2404	0. 2404
879	4514. 90	12. 01	0. 02345	6. 202	0. 2407	0. 2407
880	4519. 90	12. 01	0. 02348	6. 196	0. 241	0. 241
881	4524. 90	12. 01	0. 02347	6. 196	0. 2412	0. 2412
882	4529. 90	12. 01	0. 02348	6. 19	0. 2415	0. 2415
883	4534. 90	12. 01	0. 02348	6. 196	0. 2418	0. 2418
884	4539. 90	12. 01	0. 02352	6. 208	0. 2421	0. 2421
885	4544. 90	12. 01	0. 02352	6. 202	0. 2425	0. 2425
886	4549. 90	12. 01	0. 02357	6. 178	0. 2426	0. 2426
887	4554. 90	12. 01	0. 02361	6. 19	0. 2431	0. 2431
888	4559. 90	12. 01	0. 02357	6. 19	0. 2434	0. 2434
889	4564. 90	12. 01	0. 02357	6. 196	0. 2436	0. 2436
890	4569. 90	12. 01	0. 02362	6. 196	0. 2439	0. 2439
891	4574. 90	12. 01	0. 02361	6. 202	0. 2442	0. 2442
892	4579. 90	12. 01	0. 02358	6. 214	0. 2443	0. 2443
893	4584. 90	12. 01	0. 02361	6. 214	0. 2448	0. 2448
894	4589. 90	12. 01	0. 02359	6. 22	0. 2449	0. 2449
895	4594. 90	12. 01	0. 02361	6. 22	0. 2452	0. 2452
896	4599. 90	12. 01	0. 02364	6. 22	0. 2456	0. 2456
897	4604. 90	12. 01	0. 02362	6. 214	0. 2459	0. 2459
898	4609. 90	12. 01	0. 02359	6. 208	0. 2462	0. 2462
899	4614. 90	12. 01	0. 02355	6. 22	0. 2465	0. 2465
900	4619. 90	12. 01	0. 02358	6. 214	0. 2467	0. 2467
901	4624. 90	12. 01	0. 02354	6. 208	0. 247	0. 247
902	4629. 90	12. 01	0. 02355	6. 196	0. 2473	0. 2473
903	4634. 90	12. 01	0. 02357	6. 196	0. 2476	0. 2476
904	4639. 90	12. 01	0. 02358	6. 202	0. 2479	0. 2479
905	4644. 90	12. 01	0. 02357	6. 208	0. 2481	0. 2481
906	4649. 90	12. 01	0. 02357	6. 214	0. 2484	0. 2484
907	4654. 90	12. 01	0. 02357	6. 22	0. 2487	0. 2487
908	4659. 90	12. 01	0. 02359	6. 238	0. 249	0. 249
909	4664. 90	12. 01	0. 02358	6. 25	0. 2493	0. 2493
910	4669. 90	12. 01	0. 02359	6. 262	0. 2496	0. 2496
911	4674. 90	12. 01	0. 02361	6. 262	0. 2498	0. 2498
912	4679. 90	12. 01	0. 02364	6. 268	0. 2501	0. 2501
913	4684. 90	12. 01	0. 02362	6. 262	0. 2504	0. 2504
914	4689. 90	12. 01	0. 02361	6. 262	0. 2507	0. 2507
915	4694. 90	12. 01	0. 02364	6. 244	0. 251	0. 251
916	4699. 90	12. 01	0. 02361	6. 232	0. 2513	0. 2513
917	4704. 90	12. 01	0. 02357	6. 232	0. 2515	0. 2515
918	4709. 90	12. 01	0. 02355	6. 238	0. 2518	0. 2518
919	4714. 90	12. 01	0. 02354	6. 244	0. 2521	0. 2521
920	4719. 90	12. 01	0. 02352	6. 238	0. 2524	0. 2524
921	4724. 90	12. 01	0. 02348	6. 25	0. 2528	0. 2528
922	4729. 90	12. 01	0. 02347	6. 256	0. 2529	0. 2529
923	4734. 90	12. 01	0. 02343	6. 274	0. 2532	0. 2532
924	4739. 90	12. 01	0. 02338	6. 28	0. 2535	0. 2535
925	4744. 90	12. 01	0. 02338	6. 28	0. 2538	0. 2538

DIRECT SHEAR TEST REPORT



Symbol	\odot		
Test No.	5742105BS2D		
Sample No.	S-2		
Shape	Circular		
Initial	Dimension, in	2.5	
	Area, in ²	4.9087	
	Height, in	0.97047	
	Water Content, %	30.70	
	Dry Density, pcf	85.535	
	Saturation, %	85.51	
	Void Ratio	0.9684	
	Consol. Height, in	0.95931	
	Consol. Void Ratio	0.94576	
Final	Water Content, %	34.30	
	Dry Density, pcf	87.467	
	Saturation, %	100.02	
	Void Ratio	0.92494	
	Normal Stress, tsf	0.50061	
	Max. Shear Stress, tsf	0.36538	
	Ult. Shear Stress, tsf	0.36538	
	Time to Failure, min	1214.2	

Project: KINGSTON COAL	Disp. Rate, in/min	0.00019685
Location: TENN	Estimated Specific Gravity	2.70
Project No.: 60095742	Liquid Limit	26
Boring No.: B105B OST-2	Plastic Limit	16
Sample Type: OST	Plasticity Index	10
Description: SILTY CLAY SOME FINE SAND - BROWN (CL)		
Remarks: TEST PERFORMED AS PER ASTM D 3080		

DIRECT SHEAR TEST DATA

Project: KINGSTON COAL
 Boring No.: B105B OST-2
 Sample No.: S-2
 Test No.: 5742105BS2D

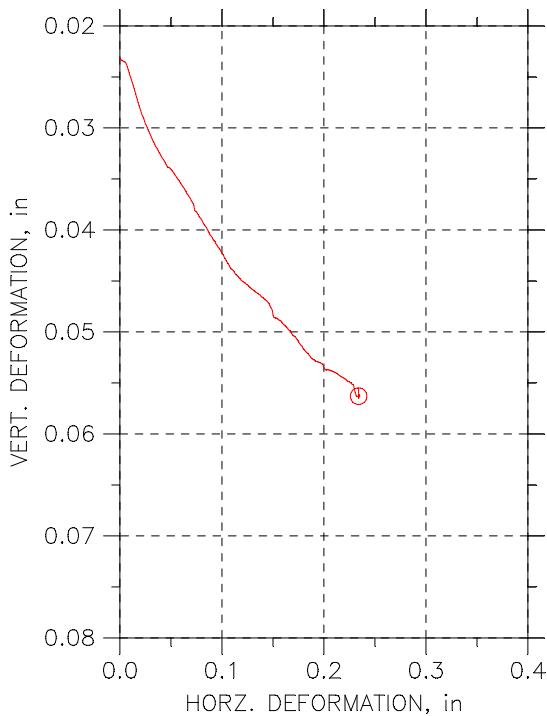
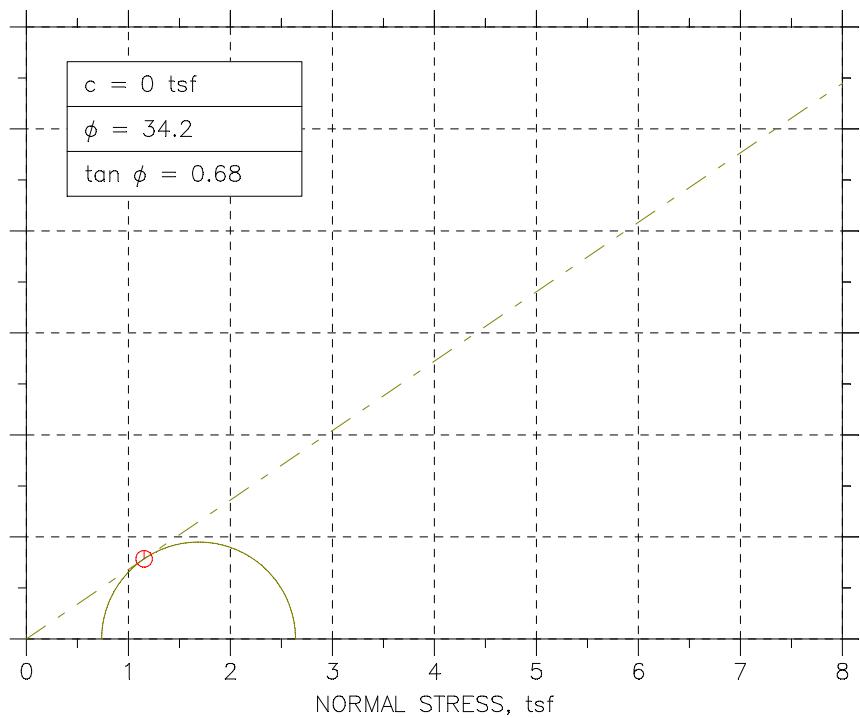
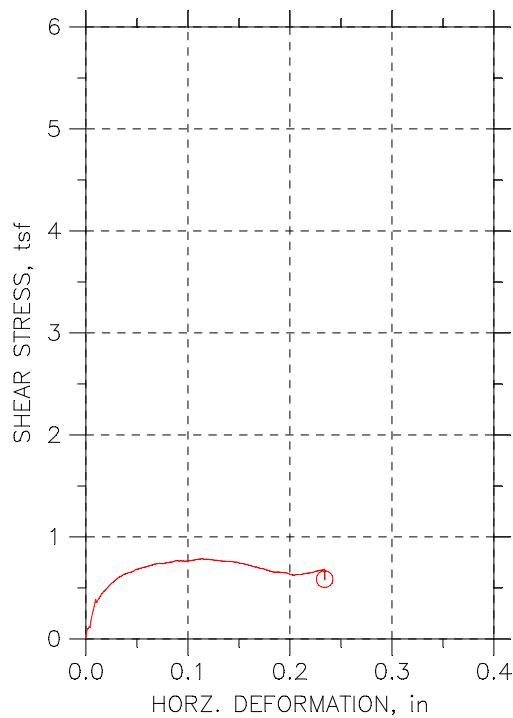
Location: TENN
 Tested By: WPQ
 Test Date: 2/12/09
 Sample Type: OST

Project No.: 60095742
 Checked By: WPQ
 Depth: 15.5-18.0
 Elevation:

Soil Description: SILTY CLAY SOME FINE SAND - BROWN (CL)
 Remarks: TEST PERFORMED AS PER ASTM D 3080

	Elapsed Time min	Vertical Stress tsf	Vertical Displacement in	Horizontal Stress tsf	Horizontal Displacement in
1	0.00	0.5006	0.01158	0	0
2	79.62	0.5006	0.01171	0.06142	0.007916
3	120.71	0.5006	0.01168	0.06772	0.01578
4	165.35	0.5006	0.01165	0.08662	0.02365
5	207.24	0.5006	0.01181	0.1158	0.03152
6	247.32	0.5006	0.01194	0.1402	0.03939
7	286.55	0.5006	0.01236	0.1583	0.04726
8	324.40	0.5006	0.013	0.1732	0.05512
9	366.41	0.5006	0.01355	0.1819	0.06299
10	406.43	0.5006	0.01438	0.1992	0.07091
11	445.88	0.5006	0.01483	0.2158	0.07878
12	484.90	0.5006	0.01554	0.2339	0.08665
13	526.88	0.5006	0.01618	0.2528	0.09451
14	563.70	0.5006	0.01628	0.2662	0.1024
15	603.58	0.5006	0.01644	0.2788	0.1102
16	642.90	0.5006	0.01663	0.2898	0.1181
17	683.25	0.5006	0.0168	0.2992	0.126
18	724.18	0.5006	0.01705	0.3063	0.1339
19	764.54	0.5006	0.01747	0.3126	0.1418
20	803.20	0.5006	0.0177	0.3197	0.1496
21	842.13	0.5006	0.01805	0.3229	0.1575
22	882.92	0.4998	0.01824	0.3276	0.1654
23	921.51	0.5006	0.0184	0.3307	0.1732
24	959.14	0.5006	0.01879	0.3292	0.1811
25	1000.14	0.5006	0.01898	0.3292	0.189
26	1040.53	0.4998	0.0195	0.3347	0.1969
27	1078.17	0.5006	0.02011	0.341	0.2048
28	1116.60	0.4998	0.0205	0.3473	0.2126
29	1156.84	0.4998	0.02085	0.3551	0.2205
30	1197.47	0.5006	0.02127	0.363	0.2284
31	1214.20	0.5006	0.02143	0.3654	0.2325

DIRECT SHEAR TEST REPORT



Symbol	\odot			
Test No.	5742107BS5			
Sample No.	OST-5			
Shape	Circular			
Initial	Dimension, in	2.3642		
	Area, in ²	4.3898		
	Height, in	0.95197		
	Water Content, %	26.39		
	Dry Density, pcf	96.78		
	Saturation, %	96.57		
	Void Ratio	0.73526		
	Consol. Height, in	0.92881		
	Consol. Void Ratio	0.69304		
Final	Water Content, %	23.52		
	Dry Density, pcf	102.9		
	Saturation, %	100.01		
	Void Ratio	0.63263		
	Normal Stress, tsf	1.1535		
	Max. Shear Stress, tsf	0.78513		
	Ult. Shear Stress, tsf	0.58571		
	Time to Failure, min	2073.9		

Project: KINGSTON COAL

Location: TN

Project No.: 60095742

Boring No.: 09-107B S-5

Sample Type: 3" OST

Description: F-M SAND AND SILT TRACE CLAY - ORANGISH GRAY (SM)

Remarks: TEST PERFORMED AS PER ASTM D 3080

DIRECT SHEAR TEST DATA

Project: KINGSTON COAL
 Boring No.: 09-107B S-5
 Sample No.: OST-5
 Test No.: 5742107BS5

Location: TN
 Tested By: BCM
 Test Date: 02/09/09
 Sample Type: 3" OST

Project No.: 60095742
 Checked By: WPQ
 Depth: 47.0' - 49.5'
 Elevation:

Soil Description: F-M SAND AND SILT TRACE CLAY - ORANGE SH GRAY (SM)
 Remarks: TEST PERFORMED AS PER ASTM D 3080

Step: 1 of 1

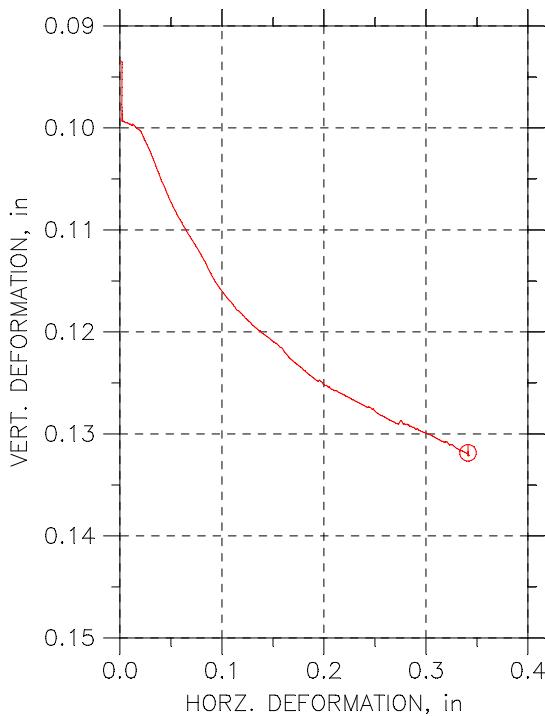
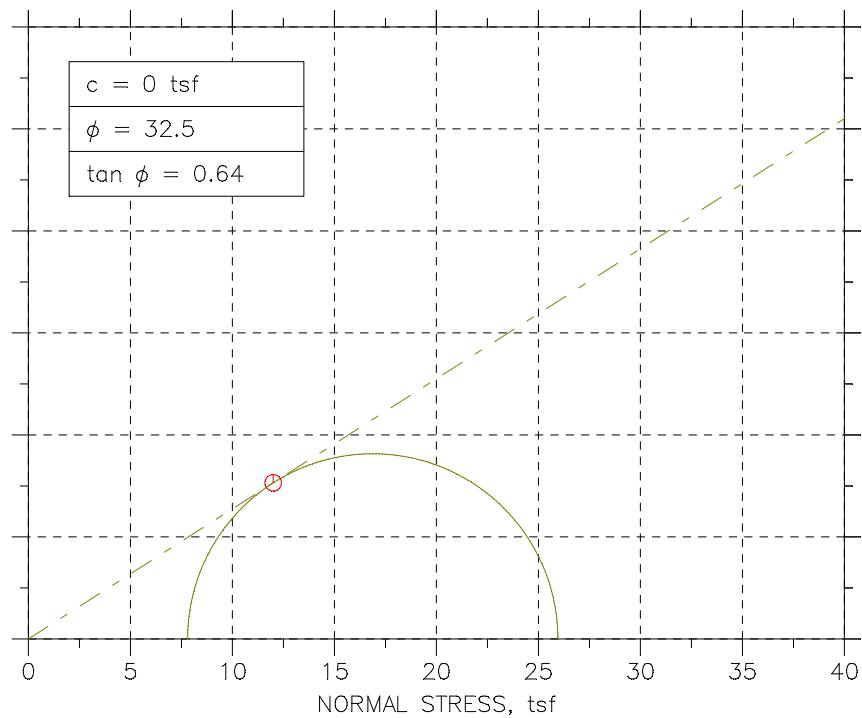
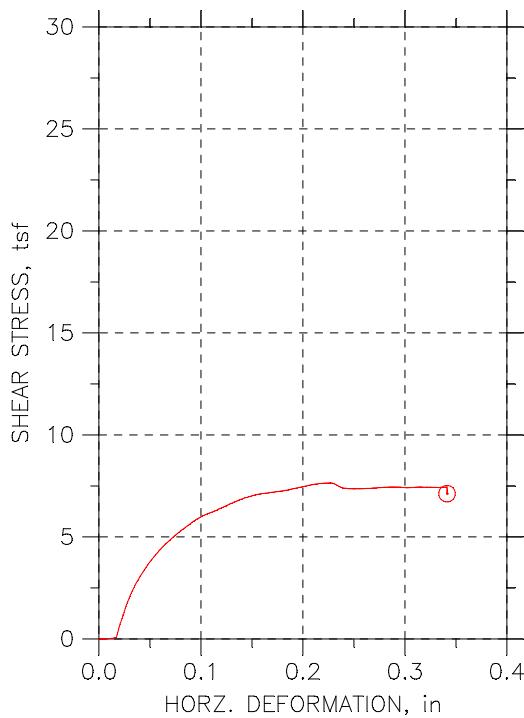
	Elapsed Time min	Vertical Stress tsf	Vertical Displacement in	Horizontal Stress tsf	Horizontal Displacement in	Cumulative Displacement in
1	0.00	1.154	0.02315	0	0	0
2	7.90	1.154	0.02326	0.02818	0.0001411	0.0001411
3	15.90	1.154	0.02323	0.05549	0.0004232	0.0004232
4	35.90	1.154	0.02336	0.09885	0.001552	0.001552
5	48.90	1.154	0.0234	0.09841	0.002257	0.002257
6	63.90	1.154	0.02345	0.1192	0.003104	0.003104
7	78.90	1.154	0.02351	0.1127	0.004091	0.004091
8	93.90	1.154	0.02351	0.1738	0.004796	0.004796
9	108.90	1.154	0.02361	0.215	0.005643	0.005643
10	123.90	1.154	0.02379	0.2575	0.006489	0.006489
11	138.90	1.154	0.024	0.284	0.007195	0.007195
12	153.90	1.154	0.02428	0.3204	0.008041	0.008041
13	168.90	1.154	0.02452	0.3568	0.008888	0.008888
14	183.90	1.154	0.0248	0.3867	0.009593	0.009593
15	198.90	1.154	0.02504	0.3555	0.01058	0.01058
16	213.90	1.154	0.02529	0.3759	0.01129	0.01129
17	228.90	1.154	0.02557	0.3876	0.01213	0.01213
18	243.90	1.154	0.02581	0.401	0.01298	0.01298
19	258.90	1.154	0.02609	0.4149	0.01383	0.01383
20	273.90	1.154	0.02635	0.4262	0.01453	0.01453
21	288.90	1.154	0.02667	0.4413	0.01552	0.01552
22	303.90	1.154	0.02699	0.4496	0.01622	0.01622
23	318.90	1.154	0.02722	0.4613	0.01707	0.01707
24	333.90	1.154	0.02752	0.47	0.01778	0.01778
25	348.90	1.154	0.02778	0.4769	0.01862	0.01862
26	363.90	1.154	0.028	0.4838	0.01947	0.01947
27	378.90	1.154	0.0283	0.4916	0.02031	0.02031
28	393.90	1.154	0.02855	0.5016	0.02116	0.02116
29	408.90	1.154	0.02877	0.5107	0.02187	0.02187
30	423.90	1.154	0.02893	0.5202	0.02271	0.02271
31	438.90	1.154	0.02912	0.5289	0.02342	0.02342
32	453.90	1.154	0.02936	0.5372	0.02426	0.02426
33	468.90	1.154	0.02962	0.5437	0.02511	0.02511
34	483.90	1.154	0.02976	0.5528	0.02596	0.02596
35	498.90	1.154	0.02999	0.558	0.0268	0.0268
36	513.90	1.154	0.03019	0.5653	0.02751	0.02751
37	528.90	1.154	0.03035	0.5727	0.02836	0.02836
38	543.90	1.154	0.03051	0.5792	0.0292	0.0292
39	558.90	1.154	0.03071	0.587	0.03005	0.03005
40	573.90	1.154	0.03089	0.5931	0.03075	0.03075
41	588.90	1.154	0.03109	0.5996	0.0316	0.0316
42	603.90	1.154	0.03129	0.6048	0.03245	0.03245
43	618.90	1.154	0.03141	0.6078	0.03329	0.03329
44	633.90	1.154	0.0316	0.613	0.03414	0.03414
45	648.90	1.154	0.03176	0.6174	0.03484	0.03484
46	663.90	1.154	0.03195	0.6239	0.03583	0.03583
47	678.90	1.154	0.03203	0.633	0.03668	0.03668
48	693.90	1.154	0.03221	0.6347	0.03753	0.03753
49	708.90	1.154	0.0324	0.6369	0.03837	0.03837
50	723.90	1.154	0.03251	0.6416	0.03922	0.03922
51	738.90	1.154	0.0327	0.6421	0.04006	0.04006
52	753.90	1.154	0.03283	0.6455	0.04091	0.04091
53	768.90	1.154	0.033	0.6503	0.04176	0.04176
54	783.90	1.154	0.0331	0.6503	0.0426	0.0426
55	798.90	1.154	0.03324	0.6529	0.04359	0.04359
56	813.90	1.154	0.03339	0.6568	0.0443	0.0443
57	828.90	1.154	0.03359	0.659	0.04528	0.04528
58	843.90	1.154	0.03374	0.6637	0.04613	0.04613
59	858.90	1.154	0.03384	0.6663	0.04698	0.04698
60	873.90	1.154	0.03387	0.6733	0.04768	0.04768
61	888.90	1.154	0.03392	0.6789	0.04853	0.04853
62	903.90	1.154	0.03398	0.682	0.04938	0.04938
63	918.90	1.154	0.03408	0.6833	0.05022	0.05022
64	933.90	1.154	0.03415	0.6859	0.05107	0.05107
65	948.90	1.154	0.03429	0.6893	0.05191	0.05191
66	963.90	1.154	0.03443	0.6911	0.0529	0.0529
67	978.90	1.154	0.03456	0.6928	0.05375	0.05375
68	993.90	1.154	0.03467	0.6958	0.05445	0.05445
69	1008.90	1.154	0.03482	0.6997	0.05544	0.05544
70	1023.90	1.154	0.03494	0.6997	0.05629	0.05629
71	1038.90	1.154	0.03506	0.7041	0.05713	0.05713
72	1053.90	1.154	0.03517	0.7058	0.05798	0.05798
73	1068.90	1.154	0.03533	0.7067	0.05897	0.05897
74	1083.90	1.154	0.03545	0.7084	0.05967	0.05967
75	1098.90	1.154	0.03558	0.711	0.06052	0.06052
76	1113.90	1.154	0.03571	0.7145	0.06137	0.06137
77	1128.90	1.154	0.03582	0.7162	0.06221	0.06221
78	1143.90	1.154	0.03596	0.7192	0.0632	0.0632
79	1158.90	1.154	0.03611	0.7214	0.06391	0.06391

80	1173. 90	1. 154	0. 03624	0. 724	0. 06475	0. 06475
81	1188. 90	1. 154	0. 03642	0. 727	0. 0656	0. 0656
82	1203. 90	1. 154	0. 03654	0. 7314	0. 06645	0. 06645
83	1218. 90	1. 154	0. 03665	0. 7331	0. 06729	0. 06729
84	1233. 90	1. 154	0. 0368	0. 7344	0. 06814	0. 06814
85	1248. 90	1. 154	0. 03691	0. 7366	0. 06913	0. 06913
86	1263. 90	1. 154	0. 03711	0. 737	0. 06997	0. 06997
87	1278. 90	1. 154	0. 03725	0. 74	0. 07082	0. 07082
88	1293. 90	1. 154	0. 03741	0. 7405	0. 07167	0. 07167
89	1308. 90	1. 154	0. 03757	0. 74	0. 07237	0. 07237
90	1323. 90	1. 154	0. 03809	0. 7387	0. 07336	0. 07336
91	1338. 90	1. 154	0. 03818	0. 7383	0. 0742	0. 0742
92	1353. 90	1. 154	0. 03823	0. 737	0. 07505	0. 07505
93	1368. 90	1. 154	0. 03836	0. 7387	0. 0759	0. 0759
94	1383. 90	1. 154	0. 03849	0. 74	0. 0766	0. 0766
95	1398. 90	1. 154	0. 03867	0. 7435	0. 07759	0. 07759
96	1413. 90	1. 154	0. 03877	0. 747	0. 0783	0. 0783
97	1428. 90	1. 154	0. 03888	0. 747	0. 07914	0. 07914
98	1443. 90	1. 154	0. 03901	0. 7478	0. 08013	0. 08013
99	1458. 90	1. 154	0. 03916	0. 7483	0. 08083	0. 08083
100	1473. 90	1. 154	0. 03933	0. 7509	0. 08168	0. 08168
101	1488. 90	1. 154	0. 03946	0. 7535	0. 08253	0. 08253
102	1503. 90	1. 154	0. 03957	0. 7544	0. 08323	0. 08323
103	1518. 90	1. 154	0. 03968	0. 7548	0. 08408	0. 08408
104	1533. 90	1. 154	0. 03981	0. 7552	0. 08493	0. 08493
105	1548. 90	1. 154	0. 03996	0. 757	0. 08577	0. 08577
106	1563. 90	1. 154	0. 04011	0. 7609	0. 08648	0. 08648
107	1578. 90	1. 154	0. 04028	0. 7656	0. 08732	0. 08732
108	1593. 90	1. 154	0. 04044	0. 7669	0. 08817	0. 08817
109	1608. 90	1. 154	0. 04056	0. 7661	0. 08902	0. 08902
110	1623. 90	1. 154	0. 04065	0. 7656	0. 08986	0. 08986
111	1638. 90	1. 154	0. 04079	0. 7643	0. 09071	0. 09071
112	1653. 90	1. 154	0. 04096	0. 7639	0. 09142	0. 09142
113	1668. 90	1. 154	0. 04106	0. 7643	0. 09226	0. 09226
114	1683. 90	1. 154	0. 04117	0. 7643	0. 09311	0. 09311
115	1698. 90	1. 154	0. 04132	0. 7652	0. 09395	0. 09395
116	1713. 90	1. 154	0. 04145	0. 7639	0. 09466	0. 09466
117	1728. 90	1. 154	0. 04156	0. 7643	0. 09551	0. 09551
118	1743. 90	1. 154	0. 04169	0. 7622	0. 09635	0. 09635
119	1758. 90	1. 154	0. 04177	0. 7622	0. 09706	0. 09706
120	1773. 90	1. 154	0. 04187	0. 7622	0. 0979	0. 0979
121	1788. 90	1. 154	0. 04202	0. 7635	0. 09861	0. 09861
122	1803. 90	1. 154	0. 04215	0. 7643	0. 09946	0. 09946
123	1818. 90	1. 154	0. 0423	0. 7648	0. 1003	0. 1003
124	1833. 90	1. 154	0. 04242	0. 7669	0. 101	0. 101
125	1848. 90	1. 154	0. 04253	0. 7669	0. 1017	0. 1017
126	1863. 90	1. 154	0. 04277	0. 7674	0. 1026	0. 1026
127	1878. 90	1. 154	0. 0428	0. 7687	0. 1033	0. 1033
128	1893. 90	1. 154	0. 04296	0. 7713	0. 104	0. 104
129	1908. 90	1. 154	0. 04309	0. 7704	0. 1048	0. 1048
130	1923. 90	1. 154	0. 04324	0. 7739	0. 1057	0. 1057
131	1938. 90	1. 154	0. 04333	0. 7752	0. 1064	0. 1064
132	1953. 90	1. 154	0. 04348	0. 7765	0. 1071	0. 1071
133	1968. 90	1. 154	0. 04364	0. 7778	0. 1079	0. 1079
134	1983. 90	1. 154	0. 04376	0. 7795	0. 1086	0. 1086
135	1998. 90	1. 154	0. 04385	0. 7808	0. 1095	0. 1095
136	2013. 90	1. 154	0. 04389	0. 7808	0. 1102	0. 1102
137	2028. 90	1. 154	0. 04396	0. 7825	0. 111	0. 111
138	2043. 90	1. 154	0. 04407	0. 7834	0. 1117	0. 1117
139	2058. 90	1. 154	0. 04419	0. 7843	0. 1124	0. 1124
140	2073. 90	1. 154	0. 04433	0. 7851	0. 1133	0. 1133
141	2088. 90	1. 154	0. 0444	0. 7851	0. 114	0. 114
142	2103. 90	1. 154	0. 04448	0. 7843	0. 1148	0. 1148
143	2118. 90	1. 154	0. 04455	0. 7825	0. 1157	0. 1157
144	2133. 90	1. 154	0. 04463	0. 7808	0. 1164	0. 1164
145	2148. 90	1. 154	0. 04473	0. 7812	0. 1172	0. 1172
146	2163. 90	1. 154	0. 0448	0. 7804	0. 1179	0. 1179
147	2178. 90	1. 154	0. 04492	0. 7812	0. 1186	0. 1186
148	2193. 90	1. 154	0. 04496	0. 7812	0. 1193	0. 1193
149	2208. 90	1. 154	0. 04506	0. 7808	0. 1202	0. 1202
150	2223. 90	1. 154	0. 04508	0. 7782	0. 121	0. 121
151	2238. 90	1. 154	0. 04513	0. 7773	0. 1217	0. 1217
152	2253. 90	1. 154	0. 04522	0. 7765	0. 1226	0. 1226
153	2268. 90	1. 154	0. 04521	0. 776	0. 1232	0. 1232
154	2283. 90	1. 154	0. 04535	0. 776	0. 124	0. 124
155	2298. 90	1. 154	0. 04536	0. 7752	0. 1248	0. 1248
156	2313. 90	1. 154	0. 04545	0. 773	0. 1257	0. 1257
157	2328. 90	1. 154	0. 04552	0. 7717	0. 1264	0. 1264
158	2343. 90	1. 154	0. 0456	0. 7708	0. 1272	0. 1272
159	2358. 90	1. 154	0. 04569	0. 7713	0. 1281	0. 1281
160	2373. 90	1. 154	0. 04577	0. 7691	0. 1289	0. 1289
161	2388. 90	1. 154	0. 04583	0. 7687	0. 1298	0. 1298
162	2403. 90	1. 154	0. 04588	0. 7678	0. 1306	0. 1306
163	2418. 90	1. 154	0. 04595	0. 7669	0. 1313	0. 1313
164	2433. 90	1. 154	0. 04604	0. 7674	0. 1322	0. 1322
165	2448. 90	1. 154	0. 04608	0. 7639	0. 133	0. 133
166	2463. 90	1. 154	0. 04614	0. 763	0. 1337	0. 1337
167	2478. 90	1. 154	0. 04618	0. 7617	0. 1346	0. 1346
168	2493. 90	1. 154	0. 04623	0. 7617	0. 1354	0. 1354
169	2508. 90	1. 154	0. 0463	0. 7617	0. 1363	0. 1363
170	2523. 90	1. 154	0. 04636	0. 7609	0. 1371	0. 1371
171	2538. 90	1. 154	0. 04642	0. 7596	0. 1378	0. 1378
172	2553. 90	1. 154	0. 04654	0. 7609	0. 1387	0. 1387
173	2568. 90	1. 154	0. 04661	0. 7591	0. 1395	0. 1395
174	2583. 90	1. 154	0. 04666	0. 7583	0. 1404	0. 1404

175	2598. 90	1. 154	0. 04673	0. 7591	0. 1411	0. 1411
176	2613. 90	1. 154	0. 0468	0. 76	0. 1421	0. 1421
177	2628. 90	1. 154	0. 04687	0. 7583	0. 1428	0. 1428
178	2643. 90	1. 154	0. 04694	0. 7578	0. 1436	0. 1436
179	2658. 90	1. 154	0. 04702	0. 7565	0. 1446	0. 1446
180	2673. 90	1. 154	0. 04713	0. 7548	0. 1453	0. 1453
181	2688. 90	1. 154	0. 04725	0. 7522	0. 1462	0. 1462
182	2703. 90	1. 154	0. 0474	0. 7531	0. 147	0. 147
183	2718. 90	1. 154	0. 0476	0. 7526	0. 1478	0. 1478
184	2733. 90	1. 154	0. 04771	0. 75	0. 1487	0. 1487
185	2748. 90	1. 154	0. 0479	0. 747	0. 1494	0. 1494
186	2763. 90	1. 154	0. 04841	0. 7439	0. 1502	0. 1502
187	2778. 90	1. 154	0. 04861	0. 7396	0. 1511	0. 1511
188	2793. 90	1. 154	0. 04862	0. 7379	0. 1521	0. 1521
189	2808. 90	1. 154	0. 04863	0. 7383	0. 1528	0. 1528
190	2823. 90	1. 154	0. 04865	0. 7383	0. 1538	0. 1538
191	2838. 90	1. 154	0. 04872	0. 737	0. 1545	0. 1545
192	2853. 90	1. 154	0. 04876	0. 7353	0. 1553	0. 1553
193	2868. 90	1. 154	0. 04883	0. 7318	0. 156	0. 156
194	2883. 90	1. 154	0. 0489	0. 7301	0. 157	0. 157
195	2898. 90	1. 154	0. 04893	0. 7288	0. 1579	0. 1579
196	2913. 90	1. 154	0. 04904	0. 7266	0. 1587	0. 1587
197	2928. 90	1. 154	0. 04914	0. 7244	0. 1596	0. 1596
198	2943. 90	1. 154	0. 04927	0. 7214	0. 1603	0. 1603
199	2958. 90	1. 154	0. 04932	0. 7192	0. 1611	0. 1611
200	2973. 90	1. 154	0. 04941	0. 7162	0. 162	0. 162
201	2988. 90	1. 154	0. 04949	0. 7136	0. 1628	0. 1628
202	3003. 90	1. 154	0. 04956	0. 711	0. 1636	0. 1636
203	3018. 90	1. 154	0. 04965	0. 7093	0. 1645	0. 1645
204	3033. 90	1. 154	0. 04977	0. 7071	0. 1652	0. 1652
205	3048. 90	1. 154	0. 04986	0. 7041	0. 166	0. 166
206	3063. 90	1. 154	0. 04988	0. 7075	0. 1669	0. 1669
207	3078. 90	1. 154	0. 05002	0. 701	0. 1677	0. 1677
208	3093. 90	1. 154	0. 05018	0. 6984	0. 1686	0. 1686
209	3108. 90	1. 154	0. 05032	0. 698	0. 1694	0. 1694
210	3123. 90	1. 154	0. 05039	0. 6941	0. 1703	0. 1703
211	3138. 90	1. 154	0. 05042	0. 6911	0. 171	0. 171
212	3153. 90	1. 154	0. 05049	0. 6898	0. 172	0. 172
213	3168. 90	1. 154	0. 05063	0. 6902	0. 1728	0. 1728
214	3183. 90	1. 154	0. 05074	0. 6889	0. 1737	0. 1737
215	3198. 90	1. 154	0. 05088	0. 685	0. 1745	0. 1745
216	3213. 90	1. 154	0. 05101	0. 6837	0. 1754	0. 1754
217	3228. 90	1. 154	0. 05112	0. 6794	0. 1761	0. 1761
218	3243. 90	1. 154	0. 05123	0. 6754	0. 1769	0. 1769
219	3258. 90	1. 154	0. 05133	0. 675	0. 1778	0. 1778
220	3273. 90	1. 154	0. 05143	0. 6724	0. 1787	0. 1787
221	3288. 90	1. 154	0. 0516	0. 6707	0. 1794	0. 1794
222	3303. 90	1. 154	0. 05169	0. 6665	0. 1803	0. 1803
223	3318. 90	1. 154	0. 05178	0. 6629	0. 1811	0. 1811
224	3333. 90	1. 154	0. 05189	0. 6607	0. 182	0. 182
225	3348. 90	1. 154	0. 05199	0. 6577	0. 1827	0. 1827
226	3363. 90	1. 154	0. 05206	0. 6564	0. 1837	0. 1837
227	3378. 90	1. 154	0. 05214	0. 6559	0. 1845	0. 1845
228	3393. 90	1. 154	0. 05227	0. 6559	0. 1854	0. 1854
229	3408. 90	1. 154	0. 05233	0. 6551	0. 1861	0. 1861
230	3423. 90	1. 154	0. 05247	0. 6555	0. 1869	0. 1869
231	3438. 90	1. 154	0. 05258	0. 6568	0. 1878	0. 1878
232	3453. 90	1. 154	0. 05265	0. 6572	0. 1886	0. 1886
233	3468. 90	1. 154	0. 05269	0. 6551	0. 1895	0. 1895
234	3483. 90	1. 154	0. 05275	0. 6538	0. 1903	0. 1903
235	3498. 90	1. 154	0. 05282	0. 652	0. 1912	0. 1912
236	3513. 90	1. 154	0. 05289	0. 6499	0. 192	0. 192
237	3528. 90	1. 154	0. 05289	0. 6507	0. 1927	0. 1927
238	3543. 90	1. 154	0. 05293	0. 6503	0. 1936	0. 1936
239	3558. 90	1. 154	0. 05294	0. 6486	0. 1944	0. 1944
240	3573. 90	1. 154	0. 05297	0. 6481	0. 1952	0. 1952
241	3588. 90	1. 154	0. 053	0. 6486	0. 1961	0. 1961
242	3603. 90	1. 154	0. 05304	0. 6477	0. 1969	0. 1969
243	3618. 90	1. 154	0. 05311	0. 6425	0. 1976	0. 1976
244	3633. 90	1. 154	0. 05315	0. 6403	0. 1986	0. 1986
245	3648. 90	1. 154	0. 05338	0. 636	0. 1995	0. 1995
246	3663. 90	1. 154	0. 05358	0. 6325	0. 2003	0. 2003
247	3678. 90	1. 154	0. 05369	0. 6308	0. 2012	0. 2012
248	3693. 90	1. 154	0. 05373	0. 6286	0. 202	0. 202
249	3708. 90	1. 154	0. 05366	0. 6269	0. 2027	0. 2027
250	3723. 90	1. 154	0. 05372	0. 6265	0. 2036	0. 2036
251	3738. 90	1. 154	0. 05372	0. 6278	0. 2044	0. 2044
252	3753. 90	1. 154	0. 05374	0. 6291	0. 2054	0. 2054
253	3768. 90	1. 154	0. 05376	0. 6308	0. 2062	0. 2062
254	3783. 90	1. 154	0. 05383	0. 6317	0. 2071	0. 2071
255	3798. 90	1. 154	0. 05384	0. 6321	0. 2079	0. 2079
256	3813. 90	1. 154	0. 05386	0. 6317	0. 2086	0. 2086
257	3828. 90	1. 154	0. 05391	0. 6321	0. 2095	0. 2095
258	3843. 90	1. 154	0. 05394	0. 6317	0. 2103	0. 2103
259	3858. 90	1. 154	0. 054	0. 6312	0. 2112	0. 2112
260	3873. 90	1. 154	0. 05404	0. 6334	0. 212	0. 212
261	3888. 90	1. 154	0. 05408	0. 6373	0. 2129	0. 2129
262	3903. 90	1. 154	0. 05416	0. 6377	0. 2137	0. 2137
263	3918. 90	1. 154	0. 05422	0. 6399	0. 2146	0. 2146
264	3933. 90	1. 154	0. 05428	0. 6416	0. 2154	0. 2154
265	3948. 90	1. 154	0. 05435	0. 6434	0. 2163	0. 2163
266	3963. 90	1. 154	0. 05439	0. 6438	0. 2171	0. 2171
267	3978. 90	1. 154	0. 05445	0. 6455	0. 218	0. 218
268	3993. 90	1. 154	0. 05449	0. 6464	0. 2188	0. 2188
269	4008. 90	1. 154	0. 05453	0. 6486	0. 2197	0. 2197

270	4023. 90	1. 154	0. 0546	0. 6503	0. 2205	0. 2205
271	4038. 90	1. 154	0. 05464	0. 6512	0. 2213	0. 2213
272	4053. 90	1. 154	0. 05471	0. 6525	0. 2222	0. 2222
273	4068. 90	1. 154	0. 05481	0. 6542	0. 223	0. 223
274	4083. 90	1. 154	0. 05485	0. 6581	0. 2239	0. 2239
275	4098. 90	1. 154	0. 05489	0. 662	0. 2247	0. 2247
276	4113. 90	1. 154	0. 05494	0. 6624	0. 2256	0. 2256
277	4128. 90	1. 154	0. 05501	0. 6646	0. 2264	0. 2264
278	4143. 90	1. 154	0. 05509	0. 6672	0. 2273	0. 2273
279	4158. 90	1. 154	0. 05513	0. 6685	0. 2281	0. 2281
280	4173. 90	1. 154	0. 05519	0. 672	0. 229	0. 229
281	4188. 90	1. 154	0. 05558	0. 6728	0. 2298	0. 2298
282	4203. 90	1. 154	0. 05595	0. 6746	0. 2307	0. 2307
283	4218. 90	1. 154	0. 05621	0. 6763	0. 2315	0. 2315
284	4233. 90	1. 154	0. 05635	0. 6798	0. 2323	0. 2323
285	4248. 90	1. 154	0. 05631	0. 6802	0. 2332	0. 2332
286	4263. 90	1. 154	0. 05631	0. 6833	0. 234	0. 234
287	4278. 90	1. 154	0. 05628	0. 6746	0. 2342	0. 2342
288	4293. 90	1. 154	0. 0562	0. 6733	0. 2343	0. 2343
289	4308. 90	3. 603e+004	0. 0562	0. 6676	0. 2342	0. 2342
290	4323. 90	3. 605e+004	0. 05616	0. 6577	0. 2343	0. 2343
291	4338. 90	3. 608e+004	0. 0562	0. 6468	0. 2342	0. 2342
292	4353. 90	3. 611e+004	0. 05626	0. 636	0. 2342	0. 2342
293	4368. 90	3. 614e+004	0. 05626	0. 6269	0. 2342	0. 2342
294	4383. 90	3. 616e+004	0. 05638	0. 6174	0. 2342	0. 2342
295	4398. 90	3. 618e+004	0. 05649	0. 6117	0. 2342	0. 2342
296	4413. 90	3. 619e+004	0. 05638	0. 6078	0. 2342	0. 2342
297	4428. 90	3. 62e+004	0. 05635	0. 6035	0. 2342	0. 2342
298	4443. 90	3. 621e+004	0. 0563	0. 6004	0. 2342	0. 2342
299	4458. 90	3. 622e+004	0. 05626	0. 5965	0. 2342	0. 2342
300	4473. 90	3. 622e+004	0. 05624	0. 5935	0. 234	0. 234
301	4488. 90	3. 623e+004	0. 05628	0. 5909	0. 2342	0. 2342
302	4503. 90	3. 624e+004	0. 05628	0. 5883	0. 2342	0. 2342
303	4518. 90	3. 624e+004	0. 0563	0. 587	0. 234	0. 234
304	4533. 90	3. 624e+004	0. 0563	0. 5861	0. 2342	0. 2342
305	4534. 19	3. 624e+004	0. 0563	0. 5857	0. 234	0. 234
306	4488. 90	3. 623e+004	0. 05628	0. 5909	0. 2342	0. 2342
307	4503. 90	3. 624e+004	0. 05628	0. 5883	0. 2342	0. 2342
308	4518. 90	3. 624e+004	0. 0563	0. 587	0. 234	0. 234
309	4533. 90	3. 624e+004	0. 0563	0. 5861	0. 2342	0. 2342
310	4534. 19	3. 624e+004	0. 0563	0. 5857	0. 234	0. 234

DIRECT SHEAR TEST REPORT



Symbol	\odot		
Test No.	5742109BS5D		
Sample No.	OST-5		
Shape	Circular		
Initial	Dimension, in	2.3642	
	Area, in ²	4.3898	
	Height, in	0.93543	
	Water Content, %	19.39	
	Dry Density, pcf	108.7	
	Saturation, %	95.65	
	Void Ratio	0.54561	
	Consol. Height, in	0.84214	
	Consol. Void Ratio	0.39146	
Final	Water Content, %	12.18	
	Dry Density, pcf	126.5	
	Saturation, %	100.01	
	Void Ratio	0.32775	
	Normal Stress, tsf	12	
	Max. Shear Stress, tsf	7.6519	
	Ult. Shear Stress, tsf	7.1195	
	Time to Failure, min	4773.9	

Project: KINGSTON COAL	Disp. Rate, in/min	4.0945e-005
Location: TN	Measured Specific Gravity	2.69
Project No.: 60095742	Liquid Limit	19
Boring No.: 09-109B S-5	Plastic Limit	15
Sample Type: 3" OST	Plasticity Index	4
Description: SILTY F-M SAND TRACE CLAY - LIGHT BROWN (SM)		
Remarks: TEST PERFORMED AS PER ASTM D 3080		

DIRECT SHEAR TEST DATA

Project: KINGSTON COAL
 Boring No.: 09-109B S-5
 Sample No.: OST-5
 Test No.: 5742109BS5D

Location: TN
 Tested By: BCM
 Test Date: 04/07/09
 Sample Type: 3" OST

Project No.: 60095742
 Checked By: WPQ
 Depth: 30.5' - 33.0'
 Elevation:

Soil Description: SILTY F-M SAND TRACE CLAY - LIGHT BROWN (SM)
 Remarks: TEST PERFORMED AS PER ASTM D 3080

Step: 1 of 1

	Elapsed Time min	Vertical Stress tsf	Vertical Displacement in	Horizontal Stress tsf	Horizontal Displacement in	Cumulative Displacement in
1	0.00	12	0.09341	0	0	0
2	0.15	12	0.09354	0.0004335	0.002116	0.002116
3	0.40	12	0.09373	0.0008671	0.002116	0.002116
4	0.90	12	0.09404	0.001301	0.001975	0.001975
5	1.90	12	0.09453	0.001734	0.001975	0.001975
6	3.90	12	0.09521	0.002168	0.001975	0.001975
7	7.90	12	0.09602	0.002168	0.001975	0.001975
8	15.90	12	0.09685	0.002168	0.001975	0.001975
9	35.90	12	0.09773	0.002168	0.001834	0.001834
10	48.90	12	0.09803	0.002168	0.001975	0.001975
11	63.90	12	0.09824	0.002601	0.001975	0.001975
12	78.90	12	0.09842	0.002601	0.001975	0.001975
13	93.90	12	0.09855	0.002601	0.001975	0.001975
14	108.90	12	0.09864	0.002601	0.001975	0.001975
15	123.90	12	0.09869	0.002601	0.001975	0.001975
16	138.90	12	0.09879	0.002601	0.001975	0.001975
17	153.90	12	0.09884	0.002601	0.002116	0.002116
18	168.90	12	0.09888	0.003035	0.002116	0.002116
19	183.90	12	0.099	0.003035	0.002116	0.002116
20	198.90	12	0.09902	0.003035	0.002116	0.002116
21	213.90	12	0.09907	0.003035	0.002116	0.002116
22	228.90	12	0.09909	0.003035	0.002257	0.002257
23	243.90	12	0.09912	0.003035	0.002116	0.002116
24	258.90	12	0.09919	0.003035	0.002116	0.002116
25	273.90	12	0.09921	0.003035	0.002116	0.002116
26	288.90	12	0.09925	0.003035	0.002116	0.002116
27	303.90	12	0.09926	0.003035	0.002257	0.002257
28	318.90	12	0.09929	0.003035	0.002116	0.002116
29	333.90	12	0.09932	0.003035	0.002257	0.002257
30	348.90	12	0.0993	0.003035	0.002257	0.002257
31	363.90	12	0.09932	0.003035	0.002257	0.002257
32	378.90	12	0.09932	0.003468	0.002257	0.002257
33	393.90	12	0.09932	0.003468	0.002257	0.002257
34	408.90	12	0.09935	0.003468	0.002257	0.002257
35	423.90	12	0.09936	0.002601	0.002257	0.002257
36	438.90	12	0.09936	0.002601	0.002257	0.002257
37	453.90	12	0.09937	0.003035	0.002398	0.002398
38	468.90	12	0.09939	0.003468	0.003245	0.003245
39	483.90	12	0.0994	0.003902	0.004091	0.004091
40	498.90	12	0.09945	0.004335	0.004938	0.004938
41	513.90	12	0.09949	0.005202	0.005643	0.005643
42	528.90	12	0.09947	0.005636	0.006207	0.006207
43	543.90	12	0.0995	0.006503	0.007054	0.007054
44	558.90	12	0.09954	0.00737	0.0079	0.0079
45	573.90	12	0.09959	0.009104	0.008747	0.008747
46	588.90	12	0.09961	0.01344	0.009452	0.009452
47	603.90	12	0.09964	0.01821	0.0103	0.0103
48	618.90	12	0.09971	0.02038	0.01114	0.01114
49	633.90	12	0.09971	0.02211	0.01185	0.01185
50	648.90	12	0.09961	0.02645	0.01256	0.01256
51	663.90	12	0.0997	0.02905	0.01326	0.01326
52	678.90	12	0.09975	0.03208	0.01411	0.01411
53	693.90	12	0.09988	0.05506	0.01495	0.01495
54	708.90	12	0.09994	0.05983	0.01566	0.01566
55	723.90	12	0.1	0.0685	0.01636	0.01636
56	738.90	12	0.1001	0.08194	0.01721	0.01721
57	753.90	12	0.1001	0.2003	0.01778	0.01778
58	768.90	12	0.1002	0.3217	0.01848	0.01848
59	783.90	12	0.1002	0.4361	0.01904	0.01904
60	798.90	12	0.1002	0.5319	0.01961	0.01961
61	813.90	12	0.1003	0.6304	0.02017	0.02017
62	828.90	12	0.1004	0.7236	0.02074	0.02074
63	843.90	12	0.1005	0.8155	0.0213	0.0213
64	858.90	12	0.1006	0.9078	0.02201	0.02201
65	873.90	12	0.1008	0.9997	0.02257	0.02257
66	888.90	12	0.1009	1.098	0.02328	0.02328
67	903.90	12	0.101	1.187	0.0237	0.0237
68	918.90	12	0.1011	1.149	0.02384	0.02384
69	933.90	12	0.1012	1.161	0.02398	0.02398
70	948.90	12	0.1013	1.294	0.02455	0.02455
71	963.90	12	0.1014	1.406	0.02525	0.02525
72	978.90	12	0.1015	1.505	0.02582	0.02582
73	993.90	12	0.1016	1.595	0.02652	0.02652
74	1008.90	12	0.1017	1.678	0.02709	0.02709
75	1023.90	12	0.1019	1.759	0.02779	0.02779
76	1038.90	12	0.102	1.844	0.02836	0.02836
77	1053.90	12	0.1022	1.927	0.02906	0.02906
78	1068.90	12	0.1023	2.008	0.02977	0.02977
79	1083.90	12	0.1025	2.088	0.03033	0.03033

80	1098. 90	12	0. 1027	2. 172	0. 03104	0. 03104
81	1113. 90	12	0. 1028	2. 25	0. 03174	0. 03174
82	1128. 90	12	0. 103	2. 317	0. 03245	0. 03245
83	1143. 90	12	0. 1032	2. 396	0. 03315	0. 03315
84	1158. 90	12	0. 1033	2. 47	0. 03386	0. 03386
85	1173. 90	12	0. 1035	2. 543	0. 03456	0. 03456
86	1188. 90	12	0. 1037	2. 614	0. 03527	0. 03527
87	1203. 90	12	0. 1039	2. 687	0. 03597	0. 03597
88	1218. 90	12	0. 1041	2. 752	0. 03668	0. 03668
89	1233. 90	12	0. 1043	2. 813	0. 03753	0. 03753
90	1248. 90	12	0. 1045	2. 872	0. 03823	0. 03823
91	1263. 90	12	0. 1047	2. 934	0. 03894	0. 03894
92	1278. 90	12	0. 1049	2. 997	0. 03964	0. 03964
93	1293. 90	12	0. 1051	3. 06	0. 04035	0. 04035
94	1308. 90	12	0. 1053	3. 118	0. 04105	0. 04105
95	1323. 90	12	0. 1054	3. 177	0. 0419	0. 0419
96	1338. 90	12	0. 1056	3. 234	0. 0426	0. 0426
97	1353. 90	12	0. 1057	3. 295	0. 04345	0. 04345
98	1368. 90	12	0. 1059	3. 355	0. 04416	0. 04416
99	1383. 90	12	0. 1061	3. 416	0. 045	0. 045
100	1398. 90	12	0. 1063	3. 474	0. 04571	0. 04571
101	1413. 90	12	0. 1065	3. 526	0. 04641	0. 04641
102	1428. 90	12	0. 1067	3. 581	0. 04726	0. 04726
103	1443. 90	12	0. 1068	3. 636	0. 04796	0. 04796
104	1458. 90	12	0. 107	3. 69	0. 04881	0. 04881
105	1473. 90	12	0. 1072	3. 744	0. 04952	0. 04952
106	1488. 90	12	0. 1073	3. 798	0. 05036	0. 05036
107	1503. 90	12	0. 1075	3. 847	0. 05121	0. 05121
108	1518. 90	12	0. 1077	3. 894	0. 05191	0. 05191
109	1533. 90	12	0. 1078	3. 944	0. 05262	0. 05262
110	1548. 90	12	0. 108	3. 993	0. 05347	0. 05347
111	1563. 90	12	0. 1081	4. 046	0. 05431	0. 05431
112	1578. 90	12	0. 1083	4. 097	0. 05516	0. 05516
113	1593. 90	12	0. 1084	4. 142	0. 05586	0. 05586
114	1608. 90	12	0. 1086	4. 183	0. 05671	0. 05671
115	1623. 90	12	0. 1088	4. 23	0. 05756	0. 05756
116	1638. 90	12	0. 1089	4. 27	0. 05826	0. 05826
117	1653. 90	12	0. 109	4. 325	0. 05897	0. 05897
118	1668. 90	12	0. 1091	4. 372	0. 05981	0. 05981
119	1683. 90	12	0. 1093	4. 416	0. 0608	0. 0608
120	1698. 90	12	0. 1095	4. 452	0. 06151	0. 06151
121	1713. 90	12	0. 1096	4. 498	0. 06235	0. 06235
122	1728. 90	12	0. 1097	4. 537	0. 06306	0. 06306
123	1743. 90	12	0. 1098	4. 579	0. 06391	0. 06391
124	1758. 90	12	0. 11	4. 624	0. 06475	0. 06475
125	1773. 90	12	0. 1101	4. 663	0. 0656	0. 0656
126	1788. 90	12	0. 1103	4. 701	0. 06645	0. 06645
127	1803. 90	12	0. 1104	4. 739	0. 06715	0. 06715
128	1818. 90	12	0. 1106	4. 778	0. 06814	0. 06814
129	1833. 90	12	0. 1107	4. 813	0. 06884	0. 06884
130	1848. 90	12	0. 1108	4. 851	0. 06969	0. 06969
131	1863. 90	12	0. 111	4. 891	0. 07054	0. 07054
132	1878. 90	12	0. 1111	4. 925	0. 07138	0. 07138
133	1893. 90	12	0. 1112	4. 961	0. 07209	0. 07209
134	1908. 90	12	0. 1113	4. 993	0. 07293	0. 07293
135	1923. 90	12	0. 1114	5. 027	0. 07364	0. 07364
136	1938. 90	12	0. 1116	5. 064	0. 07449	0. 07449
137	1953. 90	12	0. 1117	5. 1	0. 07533	0. 07533
138	1968. 90	12	0. 1118	5. 135	0. 07618	0. 07618
139	1983. 90	12	0. 112	5. 169	0. 07703	0. 07703
140	1998. 90	12	0. 1121	5. 199	0. 07773	0. 07773
141	2013. 90	12	0. 1123	5. 231	0. 07858	0. 07858
142	2028. 90	12	0. 1124	5. 261	0. 07942	0. 07942
143	2043. 90	12	0. 1126	5. 297	0. 08027	0. 08027
144	2058. 90	12	0. 1127	5. 331	0. 08112	0. 08112
145	2073. 90	12	0. 1129	5. 362	0. 08182	0. 08182
146	2088. 90	12	0. 113	5. 39	0. 08267	0. 08267
147	2103. 90	12	0. 1131	5. 418	0. 08352	0. 08352
148	2118. 90	12	0. 1133	5. 444	0. 08422	0. 08422
149	2133. 90	12	0. 1135	5. 479	0. 08507	0. 08507
150	2148. 90	12	0. 1136	5. 514	0. 08591	0. 08591
151	2163. 90	12	0. 1138	5. 539	0. 08676	0. 08676
152	2178. 90	12	0. 114	5. 573	0. 08761	0. 08761
153	2193. 90	12	0. 1142	5. 6	0. 08845	0. 08845
154	2208. 90	12	0. 1143	5. 626	0. 08916	0. 08916
155	2223. 90	12	0. 1144	5. 656	0. 08986	0. 08986
156	2238. 90	12	0. 1146	5. 693	0. 09071	0. 09071
157	2253. 90	12	0. 1147	5. 724	0. 09156	0. 09156
158	2268. 90	12	0. 1149	5. 751	0. 0924	0. 0924
159	2283. 90	12	0. 115	5. 775	0. 09311	0. 09311
160	2298. 90	12	0. 1151	5. 798	0. 09395	0. 09395
161	2313. 90	12	0. 1152	5. 825	0. 09466	0. 09466
162	2328. 90	12	0. 1154	5. 856	0. 09551	0. 09551
163	2343. 90	12	0. 1155	5. 88	0. 09635	0. 09635
164	2358. 90	12	0. 1156	5. 904	0. 0972	0. 0972
165	2373. 90	12	0. 1157	5. 924	0. 09805	0. 09805
166	2388. 90	12	0. 1158	5. 945	0. 09875	0. 09875
167	2403. 90	12	0. 1159	5. 97	0. 0996	0. 0996
168	2418. 90	12	0. 116	5. 995	0. 1003	0. 1003
169	2433. 90	12	0. 1161	6. 022	0. 1011	0. 1011
170	2448. 90	12	0. 1162	6. 039	0. 102	0. 102
171	2463. 90	12	0. 1164	6. 055	0. 1028	0. 1028
172	2478. 90	12	0. 1165	6. 071	0. 1037	0. 1037
173	2493. 90	12	0. 1166	6. 092	0. 1044	0. 1044
174	2508. 90	12	0. 1167	6. 109	0. 1052	0. 1052

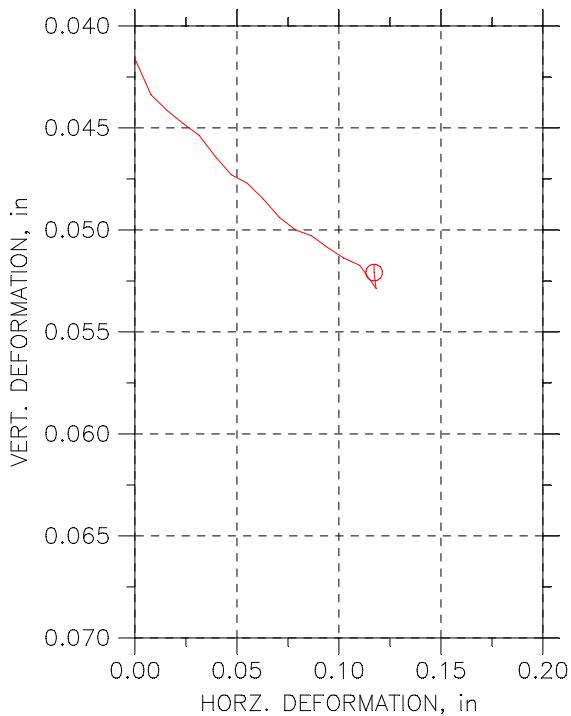
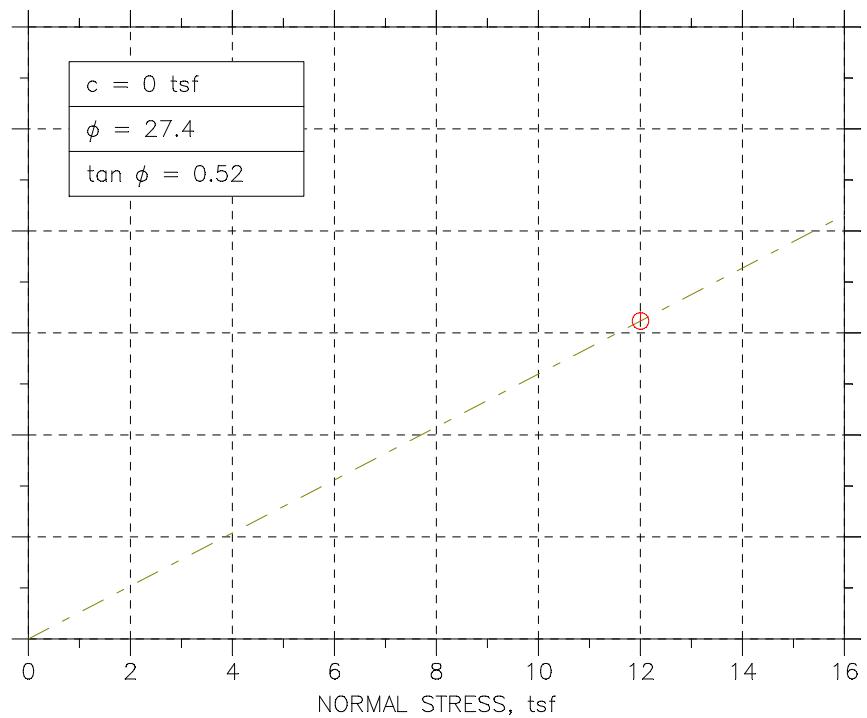
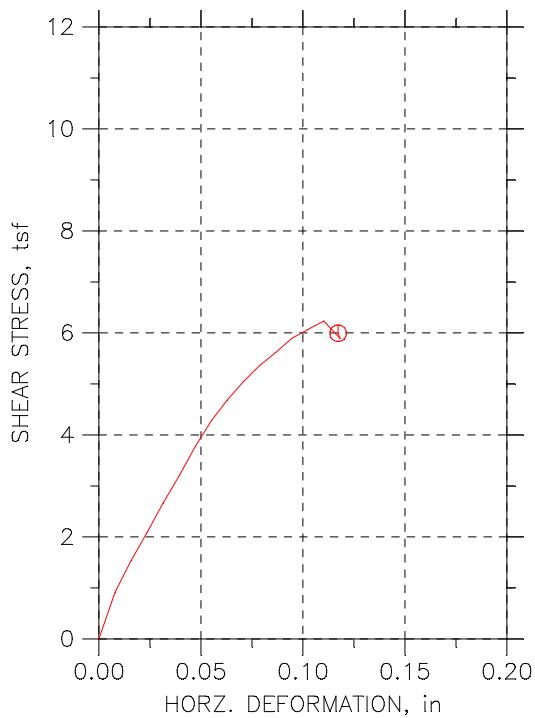
175	2523. 90	12	0. 1168	6. 125	0. 1061	0. 1061
176	2538. 90	12	0. 1169	6. 143	0. 1068	0. 1068
177	2553. 90	12	0. 1169	6. 157	0. 1076	0. 1076
178	2568. 90	12	0. 117	6. 168	0. 1085	0. 1085
179	2583. 90	12	0. 1171	6. 184	0. 1093	0. 1093
180	2598. 90	12	0. 1172	6. 2	0. 11	0. 11
181	2613. 90	12	0. 1173	6. 216	0. 1109	0. 1109
182	2628. 90	12	0. 1175	6. 235	0. 1117	0. 1117
183	2643. 90	12	0. 1175	6. 252	0. 1126	0. 1126
184	2658. 90	12	0. 1177	6. 269	0. 1133	0. 1133
185	2673. 90	12	0. 1178	6. 282	0. 1141	0. 1141
186	2688. 90	12	0. 1179	6. 3	0. 115	0. 115
187	2703. 90	12	0. 1179	6. 32	0. 1158	0. 1158
188	2718. 90	12	0. 1179	6. 343	0. 1165	0. 1165
189	2733. 90	12	0. 118	6. 364	0. 1174	0. 1174
190	2748. 90	12	0. 1181	6. 384	0. 1182	0. 1182
191	2763. 90	12	0. 1182	6. 399	0. 1189	0. 1189
192	2778. 90	12	0. 1183	6. 415	0. 1198	0. 1198
193	2793. 90	12	0. 1184	6. 429	0. 1205	0. 1205
194	2808. 90	12	0. 1184	6. 448	0. 1213	0. 1213
195	2823. 90	12	0. 1185	6. 468	0. 1222	0. 1222
196	2838. 90	12	0. 1187	6. 487	0. 123	0. 123
197	2853. 90	12	0. 1187	6. 5	0. 1239	0. 1239
198	2868. 90	12	0. 1188	6. 519	0. 1246	0. 1246
199	2883. 90	12	0. 1188	6. 536	0. 1254	0. 1254
200	2898. 90	12	0. 1189	6. 554	0. 1261	0. 1261
201	2913. 90	12	0. 119	6. 575	0. 127	0. 127
202	2928. 90	12	0. 1191	6. 598	0. 1277	0. 1277
203	2943. 90	12	0. 1191	6. 622	0. 1285	0. 1285
204	2958. 90	12	0. 1193	6. 63	0. 1294	0. 1294
205	2973. 90	12	0. 1194	6. 649	0. 1302	0. 1302
206	2988. 90	12	0. 1194	6. 663	0. 1309	0. 1309
207	3003. 90	12	0. 1195	6. 683	0. 1318	0. 1318
208	3018. 90	12	0. 1195	6. 703	0. 1325	0. 1325
209	3033. 90	12	0. 1196	6. 723	0. 1333	0. 1333
210	3048. 90	12	0. 1197	6. 737	0. 1342	0. 1342
211	3063. 90	12	0. 1198	6. 749	0. 135	0. 135
212	3078. 90	12	0. 1198	6. 767	0. 1357	0. 1357
213	3093. 90	12	0. 1199	6. 785	0. 1366	0. 1366
214	3108. 90	12	0. 1199	6. 805	0. 1374	0. 1374
215	3123. 90	12	0. 12	6. 82	0. 1381	0. 1381
216	3138. 90	12	0. 1201	6. 834	0. 139	0. 139
217	3153. 90	12	0. 1201	6. 848	0. 1397	0. 1397
218	3168. 90	12	0. 1202	6. 86	0. 1405	0. 1405
219	3183. 90	12	0. 1203	6. 878	0. 1414	0. 1414
220	3198. 90	12	0. 1203	6. 896	0. 1421	0. 1421
221	3213. 90	12	0. 1204	6. 913	0. 1429	0. 1429
222	3228. 90	12	0. 1204	6. 927	0. 1438	0. 1438
223	3243. 90	12	0. 1205	6. 933	0. 1445	0. 1445
224	3258. 90	12	0. 1205	6. 94	0. 1453	0. 1453
225	3273. 90	12	0. 1206	6. 95	0. 146	0. 146
226	3288. 90	12	0. 1206	6. 963	0. 1469	0. 1469
227	3303. 90	12	0. 1207	6. 978	0. 1477	0. 1477
228	3318. 90	12	0. 1208	6. 99	0. 1484	0. 1484
229	3333. 90	12	0. 1209	7. 002	0. 1493	0. 1493
230	3348. 90	12	0. 1209	7. 015	0. 1501	0. 1501
231	3363. 90	12	0. 121	7. 027	0. 1508	0. 1508
232	3378. 90	12	0. 121	7. 036	0. 1517	0. 1517
233	3393. 90	12	0. 1211	7. 047	0. 1524	0. 1524
234	3408. 90	12	0. 1211	7. 06	0. 1532	0. 1532
235	3423. 90	12	0. 1212	7. 068	0. 1539	0. 1539
236	3438. 90	12	0. 1213	7. 076	0. 1548	0. 1548
237	3453. 90	12	0. 1213	7. 085	0. 1555	0. 1555
238	3468. 90	12	0. 1214	7. 089	0. 1563	0. 1563
239	3483. 90	12	0. 1215	7. 1	0. 1572	0. 1572
240	3498. 90	12	0. 1215	7. 107	0. 1579	0. 1579
241	3513. 90	12	0. 1216	7. 115	0. 1587	0. 1587
242	3528. 90	12	0. 1216	7. 12	0. 1594	0. 1594
243	3543. 90	12	0. 1218	7. 125	0. 1601	0. 1601
244	3558. 90	12	0. 1219	7. 129	0. 161	0. 161
245	3573. 90	12	0. 122	7. 126	0. 1617	0. 1617
246	3588. 90	12	0. 1221	7. 138	0. 1625	0. 1625
247	3603. 90	12	0. 1222	7. 141	0. 1632	0. 1632
248	3618. 90	12	0. 1223	7. 14	0. 1641	0. 1641
249	3633. 90	12	0. 1224	7. 141	0. 1648	0. 1648
250	3648. 90	12	0. 1225	7. 149	0. 1656	0. 1656
251	3663. 90	12	0. 1225	7. 155	0. 1663	0. 1663
252	3678. 90	12	0. 1226	7. 162	0. 1672	0. 1672
253	3693. 90	12	0. 1227	7. 174	0. 1679	0. 1679
254	3708. 90	12	0. 1228	7. 18	0. 1687	0. 1687
255	3723. 90	12	0. 1228	7. 182	0. 1694	0. 1694
256	3738. 90	12	0. 1229	7. 186	0. 1703	0. 1703
257	3753. 90	12	0. 123	7. 19	0. 171	0. 171
258	3768. 90	12	0. 123	7. 197	0. 1718	0. 1718
259	3783. 90	12	0. 1231	7. 205	0. 1725	0. 1725
260	3798. 90	12	0. 1232	7. 211	0. 1735	0. 1735
261	3813. 90	12	0. 1232	7. 215	0. 1742	0. 1742
262	3828. 90	12	0. 1233	7. 22	0. 1749	0. 1749
263	3843. 90	12	0. 1233	7. 224	0. 1758	0. 1758
264	3858. 90	12	0. 1234	7. 232	0. 1766	0. 1766
265	3873. 90	12	0. 1235	7. 24	0. 1773	0. 1773
266	3888. 90	12	0. 1235	7. 246	0. 1782	0. 1782
267	3903. 90	12	0. 1236	7. 249	0. 179	0. 179
268	3918. 90	12	0. 1237	7. 254	0. 1797	0. 1797
269	3933. 90	12	0. 1238	7. 259	0. 1806	0. 1806

270	3948. 90	12	0. 1238	7. 266	0. 1814	0. 1814
271	3963. 90	12	0. 1239	7. 271	0. 1821	0. 1821
272	3978. 90	12	0. 124	7. 281	0. 183	0. 183
273	3993. 90	12	0. 124	7. 286	0. 1838	0. 1838
274	4008. 90	12	0. 1241	7. 296	0. 1847	0. 1847
275	4023. 90	12	0. 1242	7. 303	0. 1855	0. 1855
276	4038. 90	12	0. 1242	7. 311	0. 1862	0. 1862
277	4053. 90	12	0. 1243	7. 319	0. 1871	0. 1871
278	4068. 90	12	0. 1244	7. 332	0. 1878	0. 1878
279	4083. 90	12	0. 1244	7. 336	0. 1886	0. 1886
280	4098. 90	12	0. 1245	7. 352	0. 1895	0. 1895
281	4113. 90	12	0. 1246	7. 359	0. 1903	0. 1903
282	4128. 90	12	0. 1246	7. 364	0. 1912	0. 1912
283	4143. 90	12	0. 1247	7. 371	0. 1919	0. 1919
284	4158. 90	12	0. 1248	7. 386	0. 1927	0. 1927
285	4173. 90	12	0. 1248	7. 396	0. 1936	0. 1936
286	4188. 90	12	0. 1249	7. 402	0. 1943	0. 1943
287	4203. 90	12	0. 1247	7. 414	0. 1952	0. 1952
288	4218. 90	12	0. 1247	7. 424	0. 196	0. 196
289	4233. 90	12	0. 1248	7. 427	0. 1968	0. 1968
290	4248. 90	12	0. 1249	7. 436	0. 1976	0. 1976
291	4263. 90	12	0. 125	7. 451	0. 1985	0. 1985
292	4278. 90	12	0. 1251	7. 458	0. 1992	0. 1992
293	4293. 90	12	0. 1252	7. 465	0. 2	0. 2
294	4308. 90	12	0. 1252	7. 475	0. 2009	0. 2009
295	4323. 90	12	0. 1253	7. 481	0. 2017	0. 2017
296	4338. 90	12	0. 1252	7. 488	0. 2026	0. 2026
297	4353. 90	12	0. 1253	7. 499	0. 2033	0. 2033
298	4368. 90	12	0. 1254	7. 509	0. 2041	0. 2041
299	4383. 90	12	0. 1254	7. 521	0. 205	0. 205
300	4398. 90	12	0. 1255	7. 531	0. 2058	0. 2058
301	4413. 90	12	0. 1256	7. 536	0. 2067	0. 2067
302	4428. 90	12	0. 1256	7. 543	0. 2074	0. 2074
303	4443. 90	12	0. 1256	7. 548	0. 2082	0. 2082
304	4458. 90	12	0. 1257	7. 557	0. 2091	0. 2091
305	4473. 90	12	0. 1257	7. 569	0. 2099	0. 2099
306	4488. 90	12	0. 1258	7. 576	0. 2108	0. 2108
307	4503. 90	12	0. 1257	7. 581	0. 2116	0. 2116
308	4518. 90	12	0. 1258	7. 587	0. 2125	0. 2125
309	4533. 90	12	0. 1258	7. 593	0. 2132	0. 2132
310	4548. 90	12	0. 1259	7. 599	0. 214	0. 214
311	4563. 90	12	0. 1259	7. 609	0. 2149	0. 2149
312	4578. 90	12	0. 126	7. 617	0. 2157	0. 2157
313	4593. 90	12	0. 126	7. 619	0. 2165	0. 2165
314	4608. 90	12	0. 126	7. 619	0. 2174	0. 2174
315	4623. 90	12	0. 1261	7. 625	0. 2181	0. 2181
316	4638. 90	12	0. 1261	7. 627	0. 2189	0. 2189
317	4653. 90	12	0. 1262	7. 629	0. 2198	0. 2198
318	4668. 90	12	0. 1262	7. 631	0. 2206	0. 2206
319	4683. 90	12	0. 1263	7. 638	0. 2215	0. 2215
320	4698. 90	12	0. 1263	7. 636	0. 2223	0. 2223
321	4713. 90	12	0. 1264	7. 64	0. 223	0. 223
322	4728. 90	12	0. 1264	7. 639	0. 224	0. 224
323	4743. 90	12	0. 1265	7. 641	0. 2247	0. 2247
324	4758. 90	12	0. 1265	7. 647	0. 2256	0. 2256
325	4773. 90	12	0. 1265	7. 652	0. 2264	0. 2264
326	4788. 90	12	0. 1266	7. 643	0. 2271	0. 2271
327	4803. 90	12	0. 1267	7. 64	0. 2278	0. 2278
328	4818. 90	12	0. 1267	7. 635	0. 229	0. 229
329	4833. 90	12	0. 1267	7. 619	0. 2298	0. 2298
330	4848. 90	12	0. 1268	7. 606	0. 2305	0. 2305
331	4863. 90	12	0. 1268	7. 584	0. 2315	0. 2315
332	4878. 90	12	0. 1268	7. 566	0. 2323	0. 2323
333	4893. 90	12	0. 1269	7. 535	0. 2332	0. 2332
334	4908. 90	12	0. 1269	7. 514	0. 234	0. 234
335	4923. 90	12	0. 127	7. 492	0. 2347	0. 2347
336	4938. 90	12	0. 127	7. 474	0. 2356	0. 2356
337	4953. 90	12	0. 1271	7. 452	0. 2364	0. 2364
338	4968. 90	12	0. 1271	7. 435	0. 2373	0. 2373
339	4983. 90	12	0. 1272	7. 416	0. 2383	0. 2383
340	4998. 90	12	0. 1272	7. 401	0. 239	0. 239
341	5013. 90	12	0. 1272	7. 392	0. 2398	0. 2398
342	5028. 90	12	0. 1273	7. 384	0. 2407	0. 2407
343	5043. 90	12	0. 1273	7. 384	0. 2415	0. 2415
344	5058. 90	12	0. 1274	7. 383	0. 2424	0. 2424
345	5073. 90	12	0. 1274	7. 38	0. 2432	0. 2432
346	5088. 90	12	0. 1273	7. 371	0. 2441	0. 2441
347	5103. 90	12	0. 1274	7. 365	0. 2448	0. 2448
348	5118. 90	12	0. 1274	7. 361	0. 2457	0. 2457
349	5133. 90	12	0. 1275	7. 36	0. 2465	0. 2465
350	5148. 90	12	0. 1276	7. 362	0. 2473	0. 2473
351	5163. 90	12	0. 1275	7. 363	0. 2481	0. 2481
352	5178. 90	12	0. 1276	7. 357	0. 249	0. 249
353	5193. 90	12	0. 1277	7. 354	0. 2498	0. 2498
354	5208. 90	12	0. 1278	7. 354	0. 2507	0. 2507
355	5223. 90	12	0. 1279	7. 356	0. 2515	0. 2515
356	5238. 90	12	0. 128	7. 361	0. 2522	0. 2522
357	5253. 90	12	0. 128	7. 363	0. 2531	0. 2531
358	5268. 90	12	0. 1281	7. 361	0. 2541	0. 2541
359	5283. 90	12	0. 1281	7. 362	0. 2548	0. 2548
360	5298. 90	12	0. 1282	7. 355	0. 2556	0. 2556
361	5313. 90	12	0. 1282	7. 364	0. 2563	0. 2563
362	5328. 90	12	0. 1282	7. 365	0. 2572	0. 2572
363	5343. 90	12	0. 1283	7. 364	0. 258	0. 258
364	5358. 90	12	0. 1283	7. 364	0. 2589	0. 2589

365	5373. 90	12	0. 1284	7. 37	0. 2597	0. 2597
366	5388. 90	12	0. 1284	7. 369	0. 2606	0. 2606
367	5403. 90	12	0. 1285	7. 368	0. 2613	0. 2613
368	5418. 90	12	0. 1285	7. 377	0. 2621	0. 2621
369	5433. 90	12	0. 1286	7. 377	0. 263	0. 263
370	5448. 90	12	0. 1286	7. 376	0. 2638	0. 2638
371	5463. 90	12	0. 1286	7. 375	0. 2647	0. 2647
372	5478. 90	12	0. 1287	7. 379	0. 2654	0. 2654
373	5493. 90	12	0. 1287	7. 379	0. 2662	0. 2662
374	5508. 90	12	0. 1288	7. 386	0. 2671	0. 2671
375	5523. 90	12	0. 1288	7. 389	0. 2679	0. 2679
376	5538. 90	12	0. 1288	7. 393	0. 2686	0. 2686
377	5553. 90	12	0. 1289	7. 399	0. 2694	0. 2694
378	5568. 90	12	0. 1289	7. 4	0. 2703	0. 2703
379	5583. 90	12	0. 129	7. 403	0. 2711	0. 2711
380	5598. 90	12	0. 129	7. 406	0. 2718	0. 2718
381	5613. 90	12	0. 129	7. 409	0. 2727	0. 2727
382	5628. 90	12	0. 129	7. 412	0. 2734	0. 2734
383	5643. 90	12	0. 1288	7. 413	0. 2742	0. 2742
384	5658. 90	12	0. 1287	7. 416	0. 2751	0. 2751
385	5673. 90	12	0. 1287	7. 416	0. 2759	0. 2759
386	5688. 90	12	0. 1289	7. 421	0. 2768	0. 2768
387	5703. 90	12	0. 129	7. 424	0. 2776	0. 2776
388	5718. 90	12	0. 1291	7. 426	0. 2783	0. 2783
389	5733. 90	12	0. 129	7. 433	0. 2792	0. 2792
390	5748. 90	12	0. 1291	7. 433	0. 28	0. 28
391	5763. 90	12	0. 1291	7. 433	0. 2809	0. 2809
392	5778. 90	12	0. 129	7. 429	0. 2817	0. 2817
393	5793. 90	12	0. 1291	7. 434	0. 2826	0. 2826
394	5808. 90	12	0. 1291	7. 436	0. 2833	0. 2833
395	5823. 90	12	0. 1292	7. 444	0. 2841	0. 2841
396	5838. 90	12	0. 1293	7. 447	0. 2848	0. 2848
397	5853. 90	12	0. 1292	7. 451	0. 2857	0. 2857
398	5868. 90	12	0. 1293	7. 447	0. 2865	0. 2865
399	5883. 90	12	0. 1294	7. 443	0. 2874	0. 2874
400	5898. 90	12	0. 1293	7. 45	0. 2881	0. 2881
401	5913. 90	12	0. 1294	7. 446	0. 2889	0. 2889
402	5928. 90	12	0. 1295	7. 447	0. 2898	0. 2898
403	5943. 90	12	0. 1296	7. 444	0. 2906	0. 2906
404	5958. 90	12	0. 1295	7. 442	0. 2913	0. 2913
405	5973. 90	12	0. 1295	7. 446	0. 2922	0. 2922
406	5988. 90	12	0. 1296	7. 445	0. 293	0. 293
407	6003. 90	12	0. 1297	7. 437	0. 2939	0. 2939
408	6018. 90	12	0. 1297	7. 441	0. 2946	0. 2946
409	6033. 90	12	0. 1297	7. 446	0. 2954	0. 2954
410	6048. 90	12	0. 1298	7. 434	0. 2963	0. 2963
411	6063. 90	12	0. 1298	7. 427	0. 2971	0. 2971
412	6078. 90	12	0. 1298	7. 427	0. 2978	0. 2978
413	6093. 90	12	0. 1299	7. 426	0. 2987	0. 2987
414	6108. 90	12	0. 1299	7. 419	0. 2995	0. 2995
415	6123. 90	12	0. 1299	7. 418	0. 3002	0. 3002
416	6138. 90	12	0. 13	7. 413	0. 301	0. 301
417	6153. 90	12	0. 13	7. 413	0. 3019	0. 3019
418	6168. 90	12	0. 13	7. 412	0. 3027	0. 3027
419	6183. 90	12	0. 1301	7. 41	0. 3036	0. 3036
420	6198. 90	12	0. 1301	7. 416	0. 3043	0. 3043
421	6213. 90	12	0. 1302	7. 417	0. 3051	0. 3051
422	6228. 90	12	0. 1302	7. 418	0. 306	0. 306
423	6243. 90	12	0. 1302	7. 421	0. 3067	0. 3067
424	6258. 90	12	0. 1303	7. 424	0. 3075	0. 3075
425	6273. 90	12	0. 1303	7. 422	0. 3082	0. 3082
426	6288. 90	12	0. 1304	7. 427	0. 3091	0. 3091
427	6303. 90	12	0. 1304	7. 432	0. 3099	0. 3099
428	6318. 90	12	0. 1305	7. 433	0. 3106	0. 3106
429	6333. 90	12	0. 1305	7. 439	0. 3115	0. 3115
430	6348. 90	12	0. 1305	7. 441	0. 3123	0. 3123
431	6363. 90	12	0. 1306	7. 443	0. 313	0. 313
432	6378. 90	12	0. 1306	7. 447	0. 3139	0. 3139
433	6393. 90	12	0. 1307	7. 448	0. 3146	0. 3146
434	6408. 90	12	0. 1307	7. 449	0. 3154	0. 3154
435	6423. 90	12	0. 1307	7. 448	0. 3163	0. 3163
436	6438. 90	12	0. 1308	7. 439	0. 317	0. 317
437	6453. 90	12	0. 1308	7. 435	0. 3178	0. 3178
438	6468. 90	12	0. 1307	7. 429	0. 3187	0. 3187
439	6483. 90	12	0. 1308	7. 429	0. 3195	0. 3195
440	6498. 90	12	0. 1308	7. 431	0. 3202	0. 3202
441	6513. 90	12	0. 1308	7. 434	0. 3211	0. 3211
442	6528. 90	12	0. 1309	7. 438	0. 3218	0. 3218
443	6543. 90	12	0. 131	7. 431	0. 3226	0. 3226
444	6558. 90	12	0. 1311	7. 429	0. 3235	0. 3235
445	6573. 90	12	0. 1311	7. 435	0. 3242	0. 3242
446	6588. 90	12	0. 1311	7. 438	0. 325	0. 325
447	6603. 90	12	0. 131	7. 436	0. 3259	0. 3259
448	6618. 90	12	0. 1311	7. 427	0. 3266	0. 3266
449	6633. 90	12	0. 1312	7. 432	0. 3274	0. 3274
450	6648. 90	12	0. 1313	7. 426	0. 3283	0. 3283
451	6663. 90	12	0. 1313	7. 423	0. 329	0. 329
452	6678. 90	12	0. 1314	7. 429	0. 3298	0. 3298
453	6693. 90	12	0. 1314	7. 429	0. 3305	0. 3305
454	6708. 90	12	0. 1315	7. 427	0. 3314	0. 3314
455	6723. 90	12	0. 1315	7. 426	0. 3322	0. 3322
456	6738. 90	12	0. 1316	7. 421	0. 3331	0. 3331
457	6753. 90	12	0. 1316	7. 42	0. 3338	0. 3338
458	6768. 90	12	0. 1316	7. 426	0. 3346	0. 3346
459	6783. 90	12	0. 1317	7. 434	0. 3353	0. 3353

460	6798. 90	12	0. 1317	7. 434	0. 3362	0. 3362
461	6813. 90	12	0. 1317	7. 435	0. 337	0. 337
462	6828. 90	12	0. 1318	7. 433	0. 3379	0. 3379
463	6843. 90	12	0. 1318	7. 435	0. 3386	0. 3386
464	6858. 90	12	0. 1319	7. 437	0. 3394	0. 3394
465	6873. 90	12	0. 1319	7. 44	0. 3401	0. 3401
466	6888. 90	12	0. 1319	7. 439	0. 341	0. 341
467	6903. 90	12	0. 132	7. 343	0. 3414	0. 3414
468	6918. 90	12	0. 132	7. 288	0. 3414	0. 3414
469	6933. 90	12	0. 1321	7. 257	0. 3414	0. 3414
470	6948. 90	12	0. 1321	7. 237	0. 3414	0. 3414
471	6963. 90	12	0. 1321	7. 216	0. 3414	0. 3414
472	6978. 90	12	0. 1321	7. 197	0. 3414	0. 3414
473	6993. 90	12	0. 1321	7. 179	0. 3414	0. 3414
474	7008. 90	12	0. 1321	7. 162	0. 3414	0. 3414
475	7023. 90	12	0. 1321	7. 149	0. 3414	0. 3414
476	7038. 90	12	0. 1321	7. 136	0. 3414	0. 3414
477	7053. 90	12	0. 1321	7. 125	0. 3413	0. 3413
478	7068. 90	12	0. 1321	7. 116	0. 3413	0. 3413
479	7083. 90	12	0. 1319	7. 108	0. 3414	0. 3414
480	7098. 90	12	0. 1318	7. 104	0. 3413	0. 3413
481	7113. 90	12	0. 1317	7. 105	0. 3413	0. 3413
482	7128. 90	12	0. 1317	7. 109	0. 3413	0. 3413
483	7143. 90	12	0. 1318	7. 112	0. 3413	0. 3413
484	7158. 90	12	0. 1318	7. 116	0. 3413	0. 3413
485	7173. 90	12	0. 1318	7. 118	0. 3413	0. 3413
486	7186. 38	12	0. 1319	7. 12	0. 3413	0. 3413

DIRECT SHEAR TEST REPORT



Symbol	∅			
Test No.	5742203BS5D			
Sample No.	OST-5			
Shape	Circular			
Initial	Dimension, in	2.5		
	Area, in ²	4.9087		
	Height, in	0.96457		
	Water Content, %	18.25		
	Dry Density,pcf	95.046		
	Saturation, %	63.50		
	Void Ratio	0.778		
	Consol. Height, in	0.92338		
	Consol. Void Ratio	0.70208		
Final	Water Content, %	25.19		
	Dry Density, pcf	100.47		
	Saturation, %	100.00		
	Void Ratio	0.68198		
	Normal Stress, tsf	12.002		
	Max. Shear Stress, tsf	6.2342		
	Ult. Shear Stress, tsf	5.9933		
	Time to Failure, min	3964.2		

Project: KINGSTON COAL	Disp. Rate, in/min	3.1496e-005
Location: TENN	Measured Specific Gravity	2.71
Project No.: 60095742	Liquid Limit	25
Boring No.: B-203B S-5	Plastic Limit	19
Sample Type: 3" OST	Plasticity Index	6
Description: CLAYEY SILT LITTLE F-M SAND - REDDISH BROWN CL-ML SILT AND SAND POCKETS NOTED.		
Remarks: TEST PERFORMED AS PER ASTM D 3080		

DIRECT SHEAR TEST DATA

Project: KINGSTON COAL
 Boring No.: B-203B S-5
 Sample No.: OST-5
 Test No.: 5742203BS5D

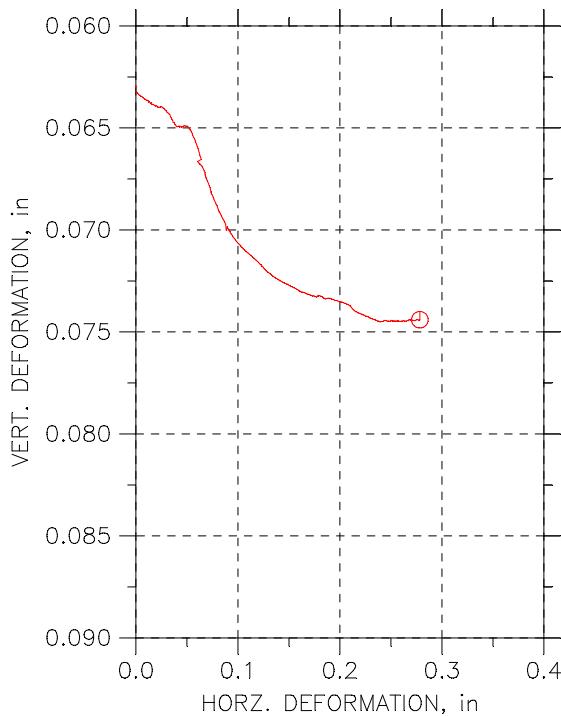
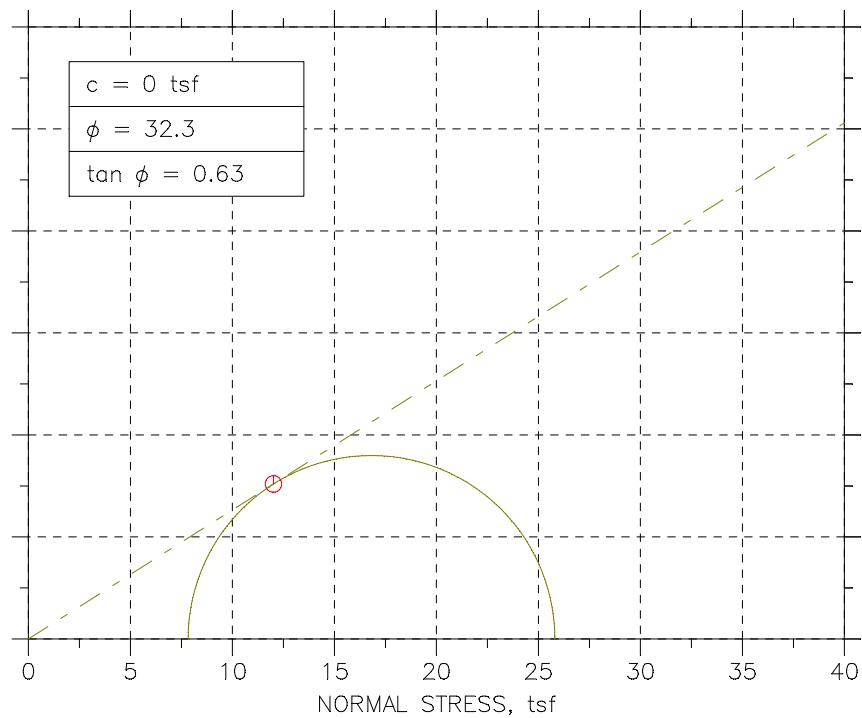
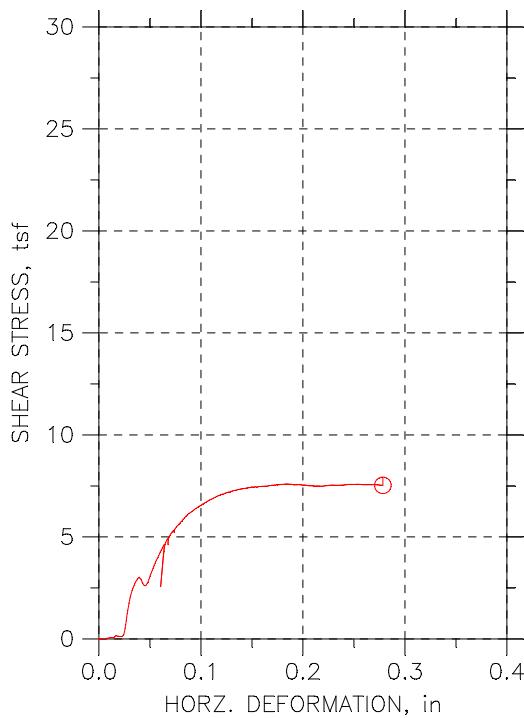
Location: TENN
 Tested By: WPQ
 Test Date: 2/12/09
 Sample Type: 3" OST

Project No.: 60095742
 Checked By: WPQ
 Depth: 29.6'
 Elevation: ----

Soil Description: CLAYEY SILT LITTLE F-M SAND - REDDISH BROWN CL-ML SILT AND SAND POCKETS NOTED.
 Remarks: TEST PERFORMED AS PER ASTM D 3080

	Elapsed Time min	Vertical Stress tsf	Vertical Displacement in	Horizontal Stress tsf	Horizontal Displacement in
1	0.00	12	0.0416	0	0
2	636.22	12	0.04337	0.9158	0.007916
3	913.88	12	0.04414	1.532	0.01578
4	1187.00	12	0.04479	2.091	0.02365
5	1436.99	12	0.04537	2.665	0.03152
6	1681.76	12	0.0464	3.199	0.03939
7	1963.37	12	0.0473	3.776	0.04726
8	2236.96	11.99	0.04772	4.278	0.05512
9	2485.59	12	0.04849	4.685	0.06299
10	2743.08	12	0.04939	5.048	0.07091
11	2996.37	12	0.05	5.361	0.07878
12	3235.21	12	0.05029	5.615	0.08665
13	3516.64	12	0.05087	5.89	0.09451
14	3725.98	12	0.05138	6.066	0.1024
15	3964.21	12	0.05174	6.234	0.1102
16	5042.18	11.73	0.05286	5.89	0.1182
17	5646.32	11.71	0.05209	5.993	0.1173

DIRECT SHEAR TEST REPORT



Symbol	\odot		
Test No.	5742204BS5D		
Sample No.	OST-2		
Shape	Circular		
Initial	Dimension, in	2.3642	
	Area, in ²	4.3898	
	Height, in	0.93898	
	Water Content, %	20.67	
	Dry Density, pcf	105.6	
	Saturation, %	94.11	
	Void Ratio	0.59128	
	Consol. Height, in	0.87607	
	Consol. Void Ratio	0.48467	
Final	Water Content, %	17.28	
	Dry Density, pcf	114.7	
	Saturation, %	100.02	
	Void Ratio	0.46519	
	Normal Stress, tsf	12.013	
	Max. Shear Stress, tsf	7.5964	
	Ult. Shear Stress, tsf	7.5266	
	Time to Failure, min	4233.9	

Project: KINGSTON COAL	Disp. Rate, in/min	4.0945e-005
Location: TN	Measured Specific Gravity	2.69
Project No.: 60095742	Liquid Limit	23
Boring No.: 09-204B S-5	Plastic Limit	15
Sample Type: 3" OST	Plasticity Index	8
Description: SILTY CLAY LITTLE F-C SAND TRACE F GRAVEL - BROWN CL		
Remarks: TEST PERFORMED AS PER ASTM D 3080		

DIRECT SHEAR TEST DATA

Project: KINGSTON COAL
 Boring No.: 09-204B S-5
 Sample No.: OST-2
 Test No.: 5742204BS5D

Location: TN
 Tested By: BCM
 Test Date: 02/09/09
 Sample Type: 3" OST

Project No.: 60095742
 Checked By: WPQ
 Depth: 15.5' - 18.0'
 Elevation:

Soil Description: SILTY CLAY LITTLE F-C SAND TRACE F GRAVEL - BROWN CL
 Remarks: TEST PERFORMED AS PER ASTM D 3080

Step: 1 of 1

	Elapsed Time min	Vertical Stress tsf	Vertical Displacement in	Horizontal Stress tsf	Horizontal Displacement in	Cumulative Displacement in
1	0.00	12.01	0.06291	0	0	0
2	0.15	12.01	0.06294	0.0004335	0	0
3	0.40	12.01	0.06295	0.001301	0	0
4	0.90	12.01	0.06298	0.002168	0	0
5	1.90	12.01	0.06299	0.003035	0	0
6	3.90	12.01	0.06305	0.003902	-0.0002821	0.0002821
7	7.90	12.01	0.06311	0.004335	-0.0002821	0.0002821
8	15.90	12.01	0.06315	0.004335	-0.0002821	0.0002821
9	35.90	12.01	0.06319	0.004769	-0.0002821	0.0002821
10	48.90	12.01	0.06323	0.005636	-0.0004232	0.0004232
11	63.90	12.01	0.06165	0.005636	-0.0004232	0.0004232
12	78.90	12.01	0.06318	0.005636	-0.0004232	0.0004232
13	93.90	12.01	0.06318	0.005636	-0.0002821	0.0002821
14	108.90	12.01	0.06322	0.005636	-0.0002821	0.0002821
15	123.90	12.01	0.0632	0.005636	-0.0002821	0.0002821
16	138.90	12.01	0.06319	0.005636	-0.0002821	0.0002821
17	153.90	12.01	0.06312	0.006069	-0.0002821	0.0002821
18	168.90	12.01	0.06309	0.006069	-0.0002821	0.0002821
19	183.90	12.01	0.06309	0.006069	-0.0002821	0.0002821
20	198.90	12.01	0.06306	0.006069	-0.0001411	0.0001411
21	213.90	12.01	0.06306	0.006069	-0.0001411	0.0001411
22	228.90	12.01	0.06308	0.006069	-0.0002821	0.0002821
23	243.90	12.01	0.06311	0.006069	-0.0002821	0.0002821
24	258.90	12.01	0.06313	0.006069	-0.0002821	0.0002821
25	273.90	12.01	0.06315	0.006069	-0.0001411	0.0001411
26	288.90	12.01	0.06313	0.006069	-0.0001411	0.0001411
27	303.90	12.01	0.06315	0.006069	-0.0002821	0.0002821
28	318.90	12.01	0.06315	0.006069	-0.0001411	0.0001411
29	333.90	12.01	0.06319	0.006069	-0.0001411	0.0001411
30	348.90	12.01	0.0632	0.006069	-0.0002821	0.0002821
31	363.90	12.01	0.0632	0.006069	-0.0001411	0.0001411
32	378.90	12.01	0.06323	0.00737	0.0002821	0.0002821
33	393.90	12.01	0.06327	0.0104	0.0009875	0.0009875
34	408.90	12.01	0.06332	0.01344	0.001693	0.001693
35	423.90	12.01	0.06334	0.01387	0.002539	0.002539
36	438.90	12.01	0.06339	0.01647	0.003245	0.003245
37	453.90	12.01	0.0634	0.01908	0.00395	0.00395
38	468.90	12.01	0.06344	0.02168	0.004796	0.004796
39	483.90	12.01	0.06346	0.02384	0.005643	0.005643
40	498.90	12.01	0.06348	0.02515	0.006348	0.006348
41	513.90	12.01	0.06353	0.02818	0.007195	0.007195
42	528.90	12.01	0.06355	0.02948	0.0079	0.0079
43	543.90	12.01	0.06358	0.02948	0.008605	0.008605
44	558.90	12.01	0.06361	0.03598	0.009452	0.009452
45	573.90	12.01	0.06364	0.05116	0.01016	0.01016
46	588.90	12.01	0.06364	0.05853	0.011	0.011
47	603.90	12.01	0.06367	0.06373	0.01185	0.01185
48	618.90	12.01	0.06374	0.06937	0.01256	0.01256
49	633.90	12.01	0.06372	0.06503	0.01326	0.01326
50	648.90	12.01	0.06378	0.0659	0.01411	0.01411
51	663.90	12.01	0.06377	0.04595	0.01495	0.01495
52	678.90	12.01	0.06384	0.1045	0.01566	0.01566
53	693.90	12.01	0.06385	0.1552	0.01651	0.01651
54	708.90	12.01	0.06385	0.1552	0.01721	0.01721
55	723.90	12.01	0.06389	0.1422	0.01806	0.01806
56	738.90	12.01	0.06392	0.1327	0.0189	0.0189
57	753.90	12.01	0.06391	0.1253	0.01975	0.01975
58	768.90	12.01	0.06393	0.1205	0.0206	0.0206
59	783.90	12.01	0.06398	0.1179	0.02144	0.02144
60	798.90	12.01	0.06399	0.1171	0.02201	0.02201
61	813.90	12.01	0.06399	0.1218	0.02285	0.02285
62	828.90	12.01	0.064	0.1595	0.0237	0.0237
63	843.90	12.01	0.06396	0.222	0.02441	0.02441
64	858.90	12.01	0.06395	0.3542	0.02511	0.02511
65	873.90	12.01	0.06399	0.5311	0.02568	0.02568
66	888.90	12.01	0.064	0.7114	0.02624	0.02624
67	903.90	12.01	0.06403	0.8861	0.0268	0.0268
68	918.90	12.01	0.06403	1.056	0.02723	0.02723
69	933.90	12.01	0.06406	1.237	0.02779	0.02779
70	948.90	12.01	0.06409	1.422	0.02836	0.02836
71	963.90	12.01	0.06414	1.592	0.02892	0.02892
72	978.90	12.01	0.06416	1.756	0.02948	0.02948
73	993.90	12.01	0.06417	1.898	0.03005	0.03005
74	1008.90	12.01	0.06424	2.013	0.03061	0.03061
75	1023.90	12.01	0.06426	2.146	0.03118	0.03118
76	1038.90	12.01	0.06428	2.264	0.03188	0.03188
77	1053.90	12.01	0.06431	2.365	0.03245	0.03245
78	1068.90	12.01	0.06434	2.462	0.03315	0.03315
79	1083.90	12.01	0.06445	2.55	0.03386	0.03386

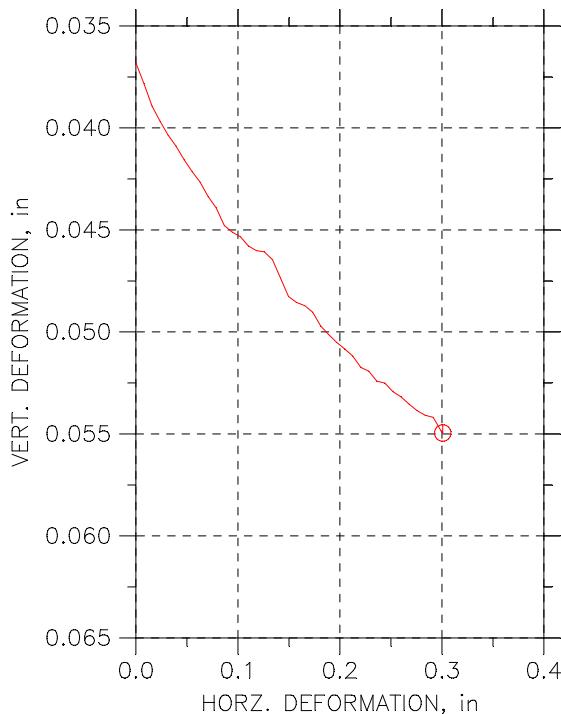
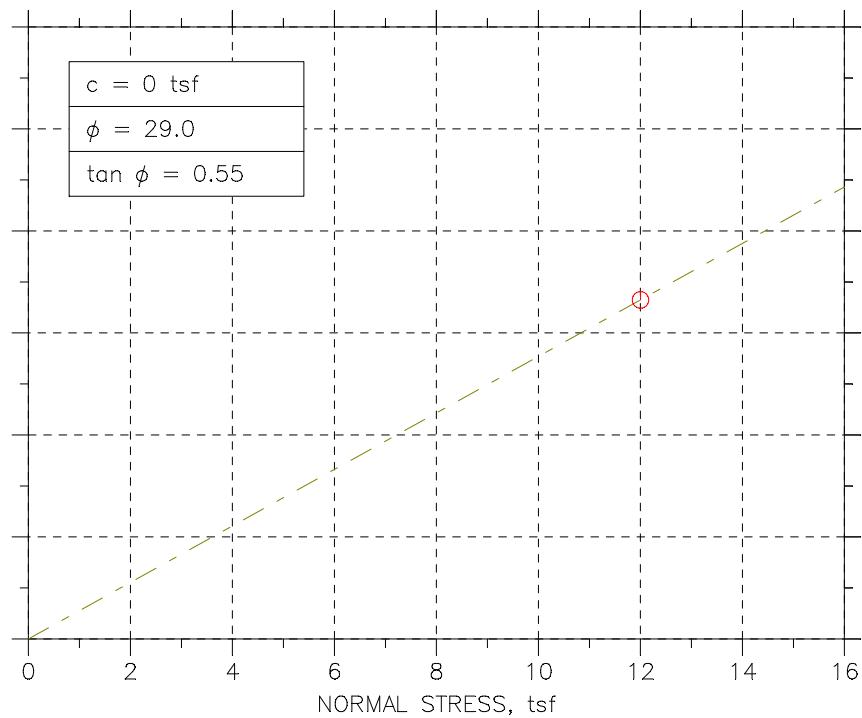
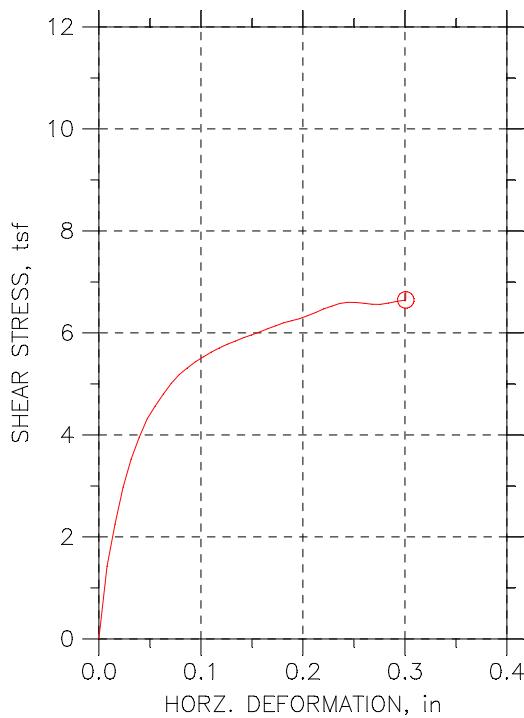
80	1098. 90	12. 01	0. 0645	2. 632	0. 03456	0. 03456
81	1113. 90	12. 01	0. 06457	2. 707	0. 03513	0. 03513
82	1128. 90	12. 01	0. 06462	2. 789	0. 03597	0. 03597
83	1143. 90	12. 01	0. 06473	2. 847	0. 03654	0. 03654
84	1158. 90	12. 01	0. 06473	2. 899	0. 03738	0. 03738
85	1173. 90	12. 01	0. 06482	2. 952	0. 03809	0. 03809
86	1188. 90	12. 01	0. 06485	3. 004	0. 03894	0. 03894
87	1203. 90	12. 01	0. 06492	3. 024	0. 03964	0. 03964
88	1218. 90	12. 01	0. 06494	2. 948	0. 04049	0. 04049
89	1233. 90	12. 01	0. 06493	2. 899	0. 04148	0. 04148
90	1248. 90	12. 01	0. 0649	2. 787	0. 04232	0. 04232
91	1263. 90	12. 01	0. 06496	2. 711	0. 04317	0. 04317
92	1278. 90	12. 01	0. 06492	2. 631	0. 04416	0. 04416
93	1293. 90	12. 01	0. 06496	2. 609	0. 045	0. 045
94	1308. 90	12. 01	0. 06493	2. 613	0. 04585	0. 04585
95	1323. 90	12. 01	0. 06493	2. 664	0. 04655	0. 04655
96	1338. 90	12. 01	0. 06487	2. 721	0. 04726	0. 04726
97	1353. 90	12. 01	0. 0649	2. 79	0. 04811	0. 04811
98	1368. 90	12. 01	0. 06492	2. 879	0. 04881	0. 04881
99	1383. 90	12. 01	0. 06492	2. 984	0. 04952	0. 04952
100	1398. 90	12. 01	0. 0649	3. 087	0. 05022	0. 05022
101	1413. 90	12. 01	0. 06494	3. 182	0. 05093	0. 05093
102	1428. 90	12. 01	0. 06499	3. 274	0. 05163	0. 05163
103	1443. 90	12. 01	0. 06504	3. 365	0. 05234	0. 05234
104	1458. 90	12. 01	0. 06508	3. 451	0. 05304	0. 05304
105	1473. 90	12. 01	0. 06511	3. 532	0. 05375	0. 05375
106	1488. 90	12. 01	0. 0652	3. 622	0. 05431	0. 05431
107	1503. 90	12. 01	0. 06527	3. 705	0. 05516	0. 05516
108	1518. 90	12. 01	0. 06535	3. 786	0. 05572	0. 05572
109	1533. 90	12. 01	0. 06545	3. 865	0. 05643	0. 05643
110	1548. 90	12. 01	0. 06551	3. 94	0. 05728	0. 05728
111	1563. 90	12. 01	0. 0656	4. 011	0. 05798	0. 05798
112	1578. 90	12. 01	0. 0657	4. 088	0. 05869	0. 05869
113	1593. 90	12. 01	0. 06579	4. 169	0. 05939	0. 05939
114	1608. 90	12. 01	0. 0659	4. 248	0. 0601	0. 0601
115	1623. 90	12. 01	0. 066	4. 319	0. 0608	0. 0608
116	1638. 90	12. 01	0. 06611	4. 385	0. 06151	0. 06151
117	1653. 90	12. 01	0. 06624	4. 449	0. 06221	0. 06221
118	1668. 90	12. 01	0. 06635	4. 507	0. 06278	0. 06278
119	1683. 90	12. 01	0. 06645	4. 574	0. 06348	0. 06348
120	1698. 90	12. 01	0. 06654	4. 631	0. 06405	0. 06405
121	1713. 90	12. 01	0. 06664	2. 565	0. 06052	0. 06052
122	1728. 90	12. 01	0. 06669	2. 875	0. 06108	0. 06108
123	1743. 90	12. 01	0. 06671	3. 189	0. 06165	0. 06165
124	1758. 90	12. 01	0. 06674	3. 482	0. 06221	0. 06221
125	1773. 90	12. 01	0. 06677	3. 759	0. 06278	0. 06278
126	1788. 90	12. 01	0. 06678	4. 03	0. 0632	0. 0632
127	1803. 90	12. 01	0. 06683	4. 292	0. 06376	0. 06376
128	1818. 90	12. 01	0. 06685	4. 511	0. 06433	0. 06433
129	1833. 90	12. 01	0. 06688	4. 645	0. 06489	0. 06489
130	1848. 90	12. 01	0. 06695	4. 738	0. 0656	0. 0656
131	1863. 90	12. 01	0. 06704	4. 824	0. 0663	0. 0663
132	1878. 90	12. 01	0. 06711	4. 887	0. 06701	0. 06701
133	1893. 90	12. 01	0. 06719	4. 935	0. 06771	0. 06771
134	1908. 90	12. 01	0. 06726	4. 616	0. 06771	0. 06771
135	1923. 90	12. 01	0. 06734	4. 833	0. 068	0. 068
136	1938. 90	12. 01	0. 06737	4. 96	0. 06842	0. 06842
137	1953. 90	12. 01	0. 06744	4. 968	0. 0687	0. 0687
138	1968. 90	12. 01	0. 06749	5. 025	0. 06898	0. 06898
139	1983. 90	12. 01	0. 06756	5. 079	0. 06969	0. 06969
140	1998. 90	12. 01	0. 06763	5. 135	0. 07025	0. 07025
141	2013. 90	12. 01	0. 06772	5. 186	0. 0711	0. 0711
142	2028. 90	12. 01	0. 06782	5. 235	0. 07181	0. 07181
143	2043. 90	12. 01	0. 06792	5. 286	0. 07251	0. 07251
144	2058. 90	12. 01	0. 06802	5. 323	0. 07308	0. 07308
145	2073. 90	12. 01	0. 0681	5. 24	0. 0735	0. 0735
146	2088. 90	12. 01	0. 06816	5. 269	0. 0735	0. 0735
147	2103. 90	12. 01	0. 06821	5. 339	0. 07406	0. 07406
148	2118. 90	12. 01	0. 06826	5. 381	0. 07449	0. 07449
149	2133. 90	12. 01	0. 06831	5. 427	0. 07505	0. 07505
150	2148. 90	12. 01	0. 06838	5. 473	0. 07576	0. 07576
151	2163. 90	12. 01	0. 06848	5. 516	0. 07632	0. 07632
152	2178. 90	12. 01	0. 06855	5. 552	0. 07703	0. 07703
153	2193. 90	12. 01	0. 06865	5. 59	0. 07787	0. 07787
154	2208. 90	12. 01	0. 06873	5. 632	0. 07858	0. 07858
155	2223. 90	12. 01	0. 06882	5. 678	0. 07942	0. 07942
156	2238. 90	12. 01	0. 06892	5. 72	0. 08013	0. 08013
157	2253. 90	12. 01	0. 06899	5. 757	0. 08069	0. 08069
158	2268. 90	12. 01	0. 06906	5. 773	0. 08126	0. 08126
159	2283. 90	12. 01	0. 06911	5. 776	0. 08154	0. 08154
160	2298. 90	12. 01	0. 06914	5. 833	0. 0821	0. 0821
161	2313. 90	12. 01	0. 06921	5. 869	0. 08281	0. 08281
162	2328. 90	12. 01	0. 06928	5. 906	0. 08352	0. 08352
163	2343. 90	12. 01	0. 06935	5. 945	0. 08408	0. 08408
164	2358. 90	12. 01	0. 06942	5. 991	0. 08493	0. 08493
165	2373. 90	12. 01	0. 06949	6. 029	0. 08563	0. 08563
166	2388. 90	12. 01	0. 06956	6. 07	0. 08648	0. 08648
167	2403. 90	12. 01	0. 06963	6. 106	0. 08718	0. 08718
168	2418. 90	12. 01	0. 06972	6. 135	0. 08789	0. 08789
169	2433. 90	12. 01	0. 07003	6. 157	0. 08859	0. 08859
170	2448. 90	12. 01	0. 06984	6. 187	0. 08944	0. 08944
171	2463. 90	12. 01	0. 06991	6. 205	0. 09015	0. 09015
172	2478. 90	12. 01	0. 06997	6. 244	0. 09085	0. 09085
173	2493. 90	12. 01	0. 07004	6. 26	0. 09156	0. 09156
174	2508. 90	12. 01	0. 0701	6. 288	0. 09226	0. 09226

175	2523. 90	12. 01	0. 07017	6. 309	0. 09297	0. 09297
176	2538. 90	12. 01	0. 07021	6. 342	0. 09353	0. 09353
177	2553. 90	12. 01	0. 07026	6. 374	0. 09438	0. 09438
178	2568. 90	12. 01	0. 07032	6. 396	0. 09508	0. 09508
179	2583. 90	12. 01	0. 07038	6. 411	0. 09579	0. 09579
180	2598. 90	12. 01	0. 07042	6. 448	0. 09663	0. 09663
181	2613. 90	12. 01	0. 07047	6. 47	0. 09734	0. 09734
182	2628. 90	12. 01	0. 07053	6. 5	0. 09805	0. 09805
183	2643. 90	12. 01	0. 07057	6. 52	0. 09889	0. 09889
184	2658. 90	12. 01	0. 07063	6. 542	0. 0996	0. 0996
185	2673. 90	12. 01	0. 07067	6. 565	0. 1004	0. 1004
186	2688. 90	12. 01	0. 0707	6. 591	0. 1011	0. 1011
187	2703. 90	12. 01	0. 07074	6. 618	0. 1021	0. 1021
188	2718. 90	12. 01	0. 0708	6. 644	0. 1028	0. 1028
189	2733. 90	12. 01	0. 07084	6. 663	0. 1035	0. 1035
190	2748. 90	12. 01	0. 07088	6. 684	0. 1044	0. 1044
191	2763. 90	12. 01	0. 07092	6. 707	0. 1052	0. 1052
192	2778. 90	12. 01	0. 07097	6. 733	0. 1059	0. 1059
193	2793. 90	12. 01	0. 07099	6. 758	0. 1068	0. 1068
194	2808. 90	12. 01	0. 07104	6. 777	0. 1076	0. 1076
195	2823. 90	12. 01	0. 07106	6. 813	0. 1083	0. 1083
196	2838. 90	12. 01	0. 07111	6. 829	0. 1092	0. 1092
197	2853. 90	12. 01	0. 07113	6. 841	0. 1099	0. 1099
198	2868. 90	12. 01	0. 07116	6. 864	0. 1107	0. 1107
199	2883. 90	12. 01	0. 0712	6. 876	0. 1114	0. 1114
200	2898. 90	12. 01	0. 07123	6. 902	0. 1123	0. 1123
201	2913. 90	12. 01	0. 07127	6. 923	0. 113	0. 113
202	2928. 90	12. 01	0. 0713	6. 943	0. 1138	0. 1138
203	2943. 90	12. 01	0. 07134	6. 954	0. 1146	0. 1146
204	2958. 90	12. 01	0. 07137	6. 976	0. 1154	0. 1154
205	2973. 90	12. 01	0. 07142	6. 998	0. 1162	0. 1162
206	2988. 90	12. 01	0. 07144	7. 017	0. 1169	0. 1169
207	3003. 90	12. 01	0. 07149	7. 032	0. 1178	0. 1178
208	3018. 90	12. 01	0. 07153	7. 045	0. 1186	0. 1186
209	3033. 90	12. 01	0. 07156	7. 063	0. 1195	0. 1195
210	3048. 90	12. 01	0. 0716	7. 083	0. 1202	0. 1202
211	3063. 90	12. 01	0. 07164	7. 093	0. 121	0. 121
212	3078. 90	12. 01	0. 07168	7. 099	0. 1217	0. 1217
213	3093. 90	12. 01	0. 07171	7. 115	0. 1226	0. 1226
214	3108. 90	12. 01	0. 07177	7. 133	0. 1234	0. 1234
215	3123. 90	12. 01	0. 07181	7. 149	0. 1243	0. 1243
216	3138. 90	12. 01	0. 07186	7. 165	0. 1251	0. 1251
217	3153. 90	12. 01	0. 07191	7. 176	0. 1258	0. 1258
218	3168. 90	12. 01	0. 07195	7. 188	0. 1267	0. 1267
219	3183. 90	12. 01	0. 07199	7. 198	0. 1275	0. 1275
220	3198. 90	12. 01	0. 07203	7. 208	0. 1284	0. 1284
221	3213. 90	12. 01	0. 07206	7. 222	0. 1291	0. 1291
222	3228. 90	12. 01	0. 07209	7. 238	0. 1299	0. 1299
223	3243. 90	12. 01	0. 07212	7. 244	0. 1308	0. 1308
224	3258. 90	12. 01	0. 07215	7. 257	0. 1315	0. 1315
225	3273. 90	12. 01	0. 07219	7. 273	0. 1323	0. 1323
226	3288. 90	12. 01	0. 07222	7. 274	0. 1332	0. 1332
227	3303. 90	12. 01	0. 07226	7. 286	0. 134	0. 134
228	3318. 90	12. 01	0. 07229	7. 296	0. 1347	0. 1347
229	3333. 90	12. 01	0. 07231	7. 315	0. 1356	0. 1356
230	3348. 90	12. 01	0. 07233	7. 317	0. 1364	0. 1364
231	3363. 90	12. 01	0. 07236	7. 328	0. 1371	0. 1371
232	3378. 90	12. 01	0. 07238	7. 335	0. 138	0. 138
233	3393. 90	12. 01	0. 07241	7. 343	0. 1388	0. 1388
234	3408. 90	12. 01	0. 07244	7. 352	0. 1397	0. 1397
235	3423. 90	12. 01	0. 07245	7. 352	0. 1404	0. 1404
236	3438. 90	12. 01	0. 0725	7. 364	0. 1412	0. 1412
237	3453. 90	12. 01	0. 0725	7. 372	0. 1419	0. 1419
238	3468. 90	12. 01	0. 07254	7. 381	0. 1428	0. 1428
239	3483. 90	12. 01	0. 07255	7. 382	0. 1436	0. 1436
240	3498. 90	12. 01	0. 07258	7. 391	0. 1445	0. 1445
241	3513. 90	12. 01	0. 07259	7. 403	0. 1453	0. 1453
242	3528. 90	12. 01	0. 07262	7. 412	0. 146	0. 146
243	3543. 90	12. 01	0. 07262	7. 411	0. 1469	0. 1469
244	3558. 90	12. 01	0. 07265	7. 421	0. 1477	0. 1477
245	3573. 90	12. 01	0. 07266	7. 429	0. 1485	0. 1485
246	3588. 90	12. 01	0. 07268	7. 437	0. 1494	0. 1494
247	3603. 90	12. 01	0. 07272	7. 445	0. 1501	0. 1501
248	3618. 90	12. 01	0. 07273	7. 442	0. 1509	0. 1509
249	3633. 90	12. 01	0. 07275	7. 443	0. 1517	0. 1517
250	3648. 90	12. 01	0. 07278	7. 448	0. 1525	0. 1525
251	3663. 90	12. 01	0. 07279	7. 454	0. 1533	0. 1533
252	3678. 90	12. 01	0. 07282	7. 447	0. 1542	0. 1542
253	3693. 90	12. 01	0. 07283	7. 451	0. 155	0. 155
254	3708. 90	12. 01	0. 07286	7. 459	0. 1559	0. 1559
255	3723. 90	12. 01	0. 07287	7. 468	0. 1566	0. 1566
256	3738. 90	12. 01	0. 0729	7. 472	0. 1574	0. 1574
257	3753. 90	12. 01	0. 07292	7. 475	0. 1581	0. 1581
258	3768. 90	12. 01	0. 07295	7. 474	0. 159	0. 159
259	3783. 90	12. 01	0. 07299	7. 483	0. 1598	0. 1598
260	3798. 90	12. 01	0. 073	7. 478	0. 1607	0. 1607
261	3813. 90	12. 01	0. 07303	7. 478	0. 1615	0. 1615
262	3828. 90	12. 01	0. 07304	7. 483	0. 1622	0. 1622
263	3843. 90	12. 01	0. 07304	7. 495	0. 1632	0. 1632
264	3858. 90	12. 01	0. 07306	7. 482	0. 1639	0. 1639
265	3873. 90	12. 01	0. 07306	7. 488	0. 1648	0. 1648
266	3888. 90	12. 01	0. 07309	7. 499	0. 1656	0. 1656
267	3903. 90	12. 01	0. 0731	7. 504	0. 1665	0. 1665
268	3918. 90	12. 01	0. 07313	7. 511	0. 1672	0. 1672
269	3933. 90	12. 01	0. 07314	7. 523	0. 168	0. 168

270	3948. 90	12. 01	0. 07316	7. 521	0. 1687	0. 1687
271	3963. 90	12. 01	0. 07316	7. 532	0. 1696	0. 1696
272	3978. 90	12. 01	0. 07318	7. 525	0. 1704	0. 1704
273	3993. 90	12. 01	0. 0732	7. 536	0. 1713	0. 1713
274	4008. 90	12. 01	0. 07321	7. 543	0. 1721	0. 1721
275	4023. 90	12. 01	0. 07324	7. 539	0. 173	0. 173
276	4038. 90	12. 01	0. 07323	7. 548	0. 1737	0. 1737
277	4053. 90	12. 01	0. 07324	7. 547	0. 1745	0. 1745
278	4068. 90	12. 01	0. 07325	7. 553	0. 1754	0. 1754
279	4083. 90	12. 01	0. 07327	7. 555	0. 1761	0. 1761
280	4098. 90	12. 01	0. 0733	7. 562	0. 1769	0. 1769
281	4113. 90	12. 01	0. 07324	7. 567	0. 1778	0. 1778
282	4128. 90	12. 01	0. 07324	7. 578	0. 1785	0. 1785
283	4143. 90	12. 01	0. 07321	7. 571	0. 1793	0. 1793
284	4158. 90	12. 01	0. 07323	7. 575	0. 1802	0. 1802
285	4173. 90	12. 01	0. 07324	7. 576	0. 1809	0. 1809
286	4188. 90	12. 01	0. 07325	7. 585	0. 1817	0. 1817
287	4203. 90	12. 01	0. 07327	7. 59	0. 1825	0. 1825
288	4218. 90	12. 01	0. 07331	7. 589	0. 1833	0. 1833
289	4233. 90	12. 01	0. 07334	7. 596	0. 1841	0. 1841
290	4248. 90	12. 01	0. 07337	7. 589	0. 1849	0. 1849
291	4263. 90	12. 01	0. 07338	7. 592	0. 1857	0. 1857
292	4278. 90	12. 01	0. 07337	7. 585	0. 1865	0. 1865
293	4293. 90	12. 01	0. 07337	7. 582	0. 1873	0. 1873
294	4308. 90	12. 01	0. 07335	7. 579	0. 1881	0. 1881
295	4323. 90	12. 01	0. 07335	7. 574	0. 1889	0. 1889
296	4338. 90	12. 01	0. 07335	7. 563	0. 1897	0. 1897
297	4353. 90	12. 01	0. 07335	7. 557	0. 1906	0. 1906
298	4368. 90	12. 01	0. 07338	7. 552	0. 1914	0. 1914
299	4383. 90	12. 01	0. 07339	7. 555	0. 192	0. 192
300	4398. 90	12. 01	0. 07341	7. 558	0. 193	0. 193
301	4413. 90	12. 01	0. 07341	7. 55	0. 1937	0. 1937
302	4428. 90	12. 01	0. 07344	7. 561	0. 1945	0. 1945
303	4443. 90	12. 01	0. 07346	7. 564	0. 1952	0. 1952
304	4458. 90	12. 01	0. 07346	7. 56	0. 1961	0. 1961
305	4473. 90	12. 01	0. 07346	7. 558	0. 1969	0. 1969
306	4488. 90	12. 01	0. 07348	7. 554	0. 1978	0. 1978
307	4503. 90	12. 01	0. 07351	7. 547	0. 1985	0. 1985
308	4518. 90	12. 01	0. 07352	7. 547	0. 1993	0. 1993
309	4533. 90	12. 01	0. 07351	7. 546	0. 2002	0. 2002
310	4548. 90	12. 01	0. 07353	7. 547	0. 2009	0. 2009
311	4563. 90	12. 01	0. 07353	7. 541	0. 2017	0. 2017
312	4578. 90	12. 01	0. 07355	7. 535	0. 2026	0. 2026
313	4593. 90	12. 01	0. 07356	7. 528	0. 2034	0. 2034
314	4608. 90	12. 01	0. 07359	7. 524	0. 2041	0. 2041
315	4623. 90	12. 01	0. 0736	7. 511	0. 2051	0. 2051
316	4638. 90	12. 01	0. 0736	7. 512	0. 2058	0. 2058
317	4653. 90	12. 01	0. 07363	7. 507	0. 2065	0. 2065
318	4668. 90	12. 01	0. 07365	7. 508	0. 2074	0. 2074
319	4683. 90	12. 01	0. 07366	7. 503	0. 2084	0. 2084
320	4698. 90	12. 01	0. 0737	7. 504	0. 2091	0. 2091
321	4713. 90	12. 01	0. 07372	7. 501	0. 2099	0. 2099
322	4728. 90	12. 01	0. 07376	7. 494	0. 2106	0. 2106
323	4743. 90	12. 01	0. 07382	7. 494	0. 2115	0. 2115
324	4758. 90	12. 01	0. 07387	7. 493	0. 2123	0. 2123
325	4773. 90	12. 01	0. 07391	7. 494	0. 2132	0. 2132
326	4788. 90	12. 01	0. 07394	7. 494	0. 2139	0. 2139
327	4803. 90	12. 01	0. 07397	7. 495	0. 2146	0. 2146
328	4818. 90	12. 01	0. 07401	7. 495	0. 2154	0. 2154
329	4833. 90	12. 01	0. 07401	7. 495	0. 2164	0. 2164
330	4848. 90	12. 01	0. 07405	7. 492	0. 2171	0. 2171
331	4863. 90	12. 01	0. 07407	7. 482	0. 218	0. 218
332	4878. 90	12. 01	0. 07408	7. 489	0. 2187	0. 2187
333	4893. 90	12. 01	0. 0741	7. 491	0. 2195	0. 2195
334	4908. 90	12. 01	0. 07411	7. 491	0. 2204	0. 2204
335	4923. 90	12. 01	0. 07414	7. 502	0. 2212	0. 2212
336	4938. 90	12. 01	0. 07414	7. 505	0. 222	0. 222
337	4953. 90	12. 01	0. 07417	7. 511	0. 2228	0. 2228
338	4968. 90	12. 01	0. 07418	7. 515	0. 2236	0. 2236
339	4983. 90	12. 01	0. 07419	7. 523	0. 2244	0. 2244
340	4998. 90	12. 01	0. 07422	7. 53	0. 2253	0. 2253
341	5013. 90	12. 01	0. 07424	7. 528	0. 2261	0. 2261
342	5028. 90	12. 01	0. 07424	7. 533	0. 227	0. 227
343	5043. 90	12. 01	0. 07426	7. 534	0. 2277	0. 2277
344	5058. 90	12. 01	0. 07429	7. 533	0. 2285	0. 2285
345	5073. 90	12. 01	0. 07432	7. 54	0. 2294	0. 2294
346	5088. 90	12. 01	0. 07432	7. 533	0. 2302	0. 2302
347	5103. 90	12. 01	0. 07435	7. 534	0. 2309	0. 2309
348	5118. 90	12. 01	0. 07436	7. 529	0. 2318	0. 2318
349	5133. 90	12. 01	0. 07438	7. 533	0. 2326	0. 2326
350	5148. 90	12. 01	0. 07439	7. 528	0. 2335	0. 2335
351	5163. 90	12. 01	0. 0744	7. 528	0. 2343	0. 2343
352	5178. 90	12. 01	0. 07443	7. 53	0. 2352	0. 2352
353	5193. 90	12. 01	0. 07443	7. 533	0. 2359	0. 2359
354	5208. 90	12. 01	0. 07446	7. 533	0. 2369	0. 2369
355	5223. 90	12. 01	0. 07446	7. 537	0. 2377	0. 2377
356	5238. 90	12. 01	0. 07449	7. 541	0. 2386	0. 2386
357	5253. 90	12. 01	0. 0745	7. 543	0. 2394	0. 2394
358	5268. 90	12. 01	0. 0745	7. 546	0. 2401	0. 2401
359	5283. 90	12. 01	0. 07449	7. 55	0. 241	0. 241
360	5298. 90	12. 01	0. 07449	7. 554	0. 2418	0. 2418
361	5313. 90	12. 01	0. 07446	7. 559	0. 2428	0. 2428
362	5328. 90	12. 01	0. 07443	7. 557	0. 2435	0. 2435
363	5343. 90	12. 01	0. 07445	7. 568	0. 2443	0. 2443
364	5358. 90	12. 01	0. 07443	7. 573	0. 2452	0. 2452

365	5373. 90	12. 01	0. 07446	7. 576	0. 246	0. 246
366	5388. 90	12. 01	0. 07447	7. 575	0. 2469	0. 2469
367	5403. 90	12. 01	0. 07446	7. 575	0. 2477	0. 2477
368	5418. 90	12. 01	0. 07449	7. 574	0. 2486	0. 2486
369	5433. 90	12. 01	0. 07446	7. 57	0. 2494	0. 2494
370	5448. 90	12. 01	0. 07443	7. 578	0. 2503	0. 2503
371	5463. 90	12. 01	0. 07446	7. 574	0. 2511	0. 2511
372	5478. 90	12. 01	0. 07443	7. 573	0. 252	0. 252
373	5493. 90	12. 01	0. 07446	7. 579	0. 2528	0. 2528
374	5508. 90	12. 01	0. 07446	7. 577	0. 2535	0. 2535
375	5523. 90	12. 01	0. 07446	7. 58	0. 2545	0. 2545
376	5538. 90	12. 01	0. 07446	7. 576	0. 2553	0. 2553
377	5553. 90	12. 01	0. 07446	7. 578	0. 2562	0. 2562
378	5568. 90	12. 01	0. 07443	7. 568	0. 2569	0. 2569
379	5583. 90	12. 01	0. 07446	7. 566	0. 2577	0. 2577
380	5598. 90	12. 01	0. 07449	7. 562	0. 2586	0. 2586
381	5613. 90	12. 01	0. 07449	7. 56	0. 2594	0. 2594
382	5628. 90	12. 01	0. 07446	7. 557	0. 2603	0. 2603
383	5643. 90	12. 01	0. 07447	7. 559	0. 2611	0. 2611
384	5658. 90	12. 01	0. 07445	7. 555	0. 262	0. 262
385	5673. 90	12. 01	0. 07446	7. 557	0. 2628	0. 2628
386	5688. 90	12. 01	0. 07446	7. 556	0. 2635	0. 2635
387	5703. 90	12. 01	0. 07447	7. 561	0. 2645	0. 2645
388	5718. 90	12. 01	0. 07446	7. 562	0. 2654	0. 2654
389	5733. 90	12. 01	0. 07443	7. 558	0. 2662	0. 2662
390	5748. 90	12. 01	0. 07445	7. 557	0. 2671	0. 2671
391	5763. 90	12. 01	0. 07439	7. 562	0. 2678	0. 2678
392	5778. 90	12. 01	0. 07442	7. 56	0. 2686	0. 2686
393	5793. 90	12. 01	0. 0744	7. 568	0. 2694	0. 2694
394	5808. 90	12. 01	0. 0744	7. 567	0. 2702	0. 2702
395	5823. 90	12. 01	0. 07443	7. 562	0. 2711	0. 2711
396	5838. 90	12. 01	0. 07443	7. 557	0. 272	0. 272
397	5853. 90	12. 01	0. 07445	7. 555	0. 2728	0. 2728
398	5868. 90	12. 01	0. 07443	7. 554	0. 2735	0. 2735
399	5883. 90	12. 01	0. 07443	7. 55	0. 2744	0. 2744
400	5898. 90	12. 01	0. 0744	7. 541	0. 2752	0. 2752
401	5913. 90	12. 01	0. 07439	7. 536	0. 2761	0. 2761
402	5928. 90	12. 01	0. 07442	7. 535	0. 2769	0. 2769
403	5943. 90	12. 01	0. 07442	7. 531	0. 2778	0. 2778
404	5955. 94	12. 01	0. 0744	7. 527	0. 2783	0. 2783

DIRECT SHEAR TEST REPORT



Symbol	∅			
Test No.	5742205BS3			
Sample No.	OST-3			
Shape	Circular			
Initial	Dimension, in	2.5		
	Area, in ²	4.9087		
	Height, in	0.94449		
	Water Content, %	20.52		
	Dry Density,pcf	92.416		
	Saturation, %	66.95		
	Void Ratio	0.83063		
	Consol. Height, in	0.90861		
	Consol. Void Ratio	0.76109		
Final	Water Content, %	26.72		
	Dry Density, pcf	98.126		
	Saturation, %	99.99		
	Void Ratio	0.72411		
	Normal Stress, tsf	12.001		
	Max. Shear Stress, tsf	6.6477		
	Ult. Shear Stress, tsf	6.6477		
	Time to Failure, min	5929.5		

Project: KINGSTON COAL TVA	Disp. Rate, in/min	5.5118e-005
Location: TN	Measured Specific Gravity	2.71
Project No.: 60095742	Liquid Limit	23
Boring No.: 09-205B S-3	Plastic Limit	16
Sample Type: OST 3"	Plasticity Index	7
Description: SILTY CLAY TRACE F SAND - BROWN (CL-ML)		
Remarks: TEST PERFORMED AS PER ASTM D 3080		

DIRECT SHEAR TEST DATA

Project: KINGSTON COAL TVA
 Boring No.: 09-205B S-3
 Sample No.: OST-3
 Test No.: 5742205BS3

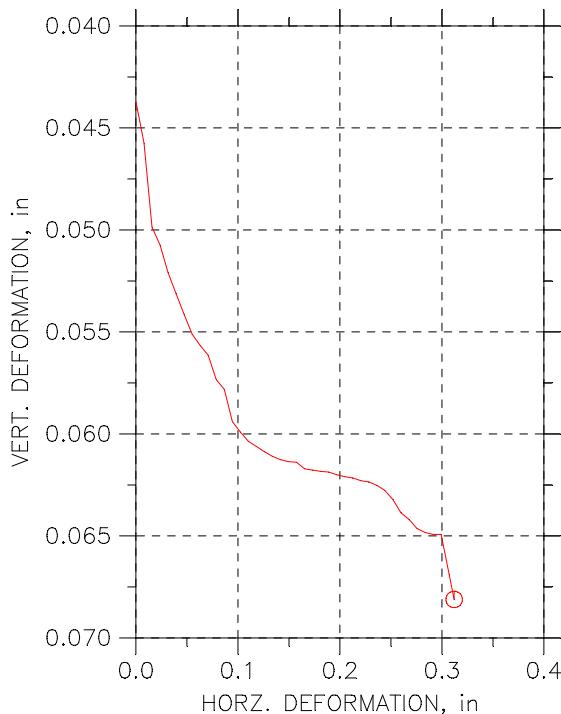
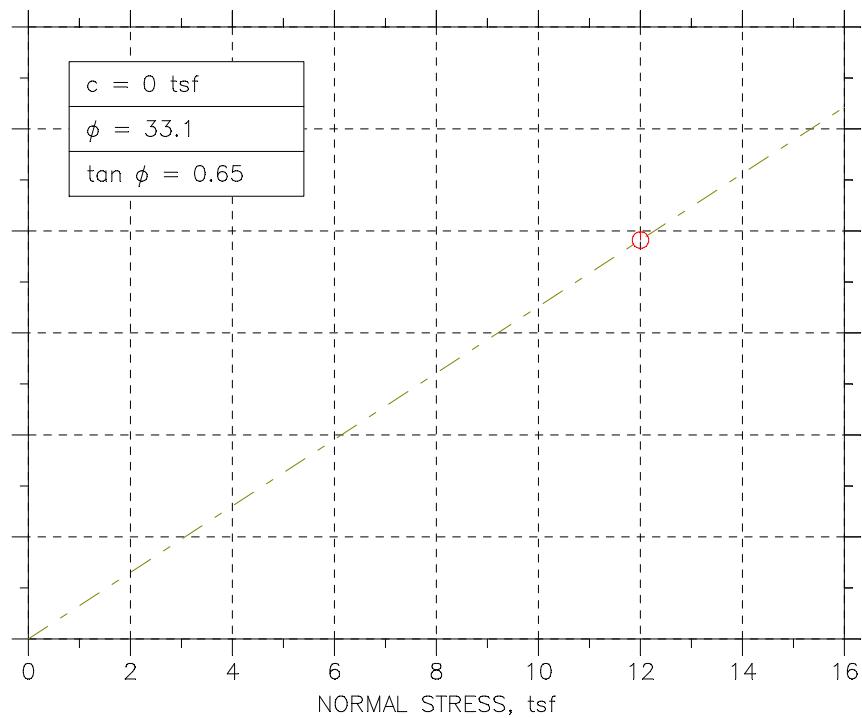
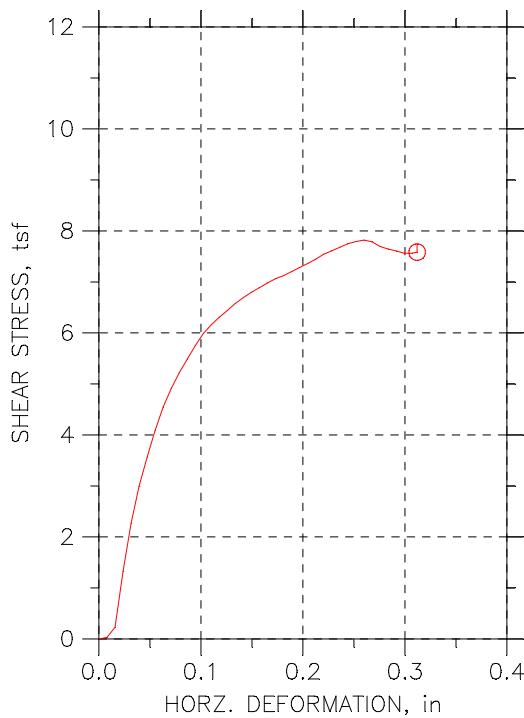
Location: TN
 Tested By: BCM
 Test Date: 2/13/09
 Sample Type: OST 3"

Project No.: 60095742
 Checked By: WPQ
 Depth: 18.5'-21.0'
 Elevation:

Soil Description: SILTY CLAY TRACE F SAND - BROWN (CL-ML)
 Remarks: TEST PERFORMED AS PER ASTM D 3080

	Elapsed Time min	Vertical Stress tsf	Vertical Displacement in	Horizontal Stress tsf	Horizontal Displacement in
1	0.00	12	0.03681	0	0
2	594.96	12	0.03784	1.424	0.007916
3	754.00	12	0.03893	2.251	0.01578
4	912.91	12	0.03967	2.97	0.02365
5	1064.39	12	0.04035	3.518	0.03152
6	1211.50	12	0.04089	3.943	0.03939
7	1370.19	12	0.04157	4.317	0.04726
8	1501.63	12	0.04215	4.566	0.05512
9	1644.90	12	0.04266	4.796	0.06299
10	1799.24	12	0.04337	5.009	0.07091
11	1947.29	12	0.04392	5.183	0.07878
12	2076.07	12	0.04479	5.313	0.08665
13	2223.29	12	0.04511	5.432	0.09451
14	2360.37	12	0.04533	5.529	0.1024
15	2508.84	12	0.04578	5.624	0.1102
16	2655.32	12	0.04601	5.706	0.1181
17	2800.91	12	0.04607	5.779	0.126
18	2936.92	12	0.04646	5.841	0.1339
19	3080.97	12	0.04736	5.906	0.1418
20	3223.86	12	0.04826	5.959	0.1496
21	3357.72	12	0.04855	6.017	0.1575
22	3491.20	12	0.04871	6.082	0.1654
23	3637.68	12	0.04903	6.14	0.1732
24	3786.56	12	0.04971	6.197	0.1811
25	3917.43	12	0.05013	6.238	0.189
26	4052.38	12	0.05051	6.279	0.1969
27	4190.91	12	0.05084	6.338	0.2048
28	4339.39	12	0.05119	6.403	0.2126
29	4479.68	12	0.05174	6.473	0.2205
30	4612.08	12	0.05193	6.524	0.2284
31	4754.09	12	0.05241	6.578	0.2362
32	4904.25	12	0.05251	6.6	0.2441
33	5045.31	11.99	0.05293	6.598	0.252
34	5179.45	12	0.05319	6.582	0.2599
35	5321.41	12	0.05354	6.561	0.2678
36	5465.77	12	0.05386	6.559	0.2756
37	5594.83	11.99	0.05409	6.584	0.2835
38	5762.45	12	0.05418	6.616	0.2914
39	5892.00	12	0.05486	6.641	0.2992
40	5929.52	12	0.05495	6.648	0.3008

DIRECT SHEAR TEST REPORT



Symbol	Ø			
Test No.	5742209BS2			
Sample No.	OST-2			
Shape	Circular			
Initial	Dimension, in	2.5		
	Area, in ²	4.9087		
	Height, in	0.81378		
	Water Content, %	21.59		
	Dry Density,pcf	104.11		
	Saturation, %	94.35		
	Void Ratio	0.61717		
	Consol. Height, in	0.77227		
	Consol. Void Ratio	0.53469		
Final	Water Content, %	17.86		
	Dry Density, pcf	113.62		
	Saturation, %	99.99		
	Void Ratio	0.48181		
	Normal Stress, tsf	12.001		
	Max. Shear Stress, tsf	7.821		
	Ult. Shear Stress, tsf	7.5839		
	Time to Failure, min	5025.2		

Project: KINGSTON COAL TVA	Disp. Rate, in/min	5.5118e-005
Location: TN	Measured Specific Gravity	2.70
Project No.: 60095742	Liquid Limit	27
Boring No.: 09-209B S-2	Plastic Limit	19
Sample Type: OST 3"	Plasticity Index	8
Description: SILTY CLAY SOME F-C SAND - BROWN AND GRAY (CL) SILT AND SAND POCKETS NOTED.		
Remarks: TEST PERFORMED AS PER ASTM D 3080		

DIRECT SHEAR TEST DATA

Project: KINGSTON COAL TVA
 Boring No.: 09-209B S-2
 Sample No.: OST-2
 Test No.: 5742209BS2

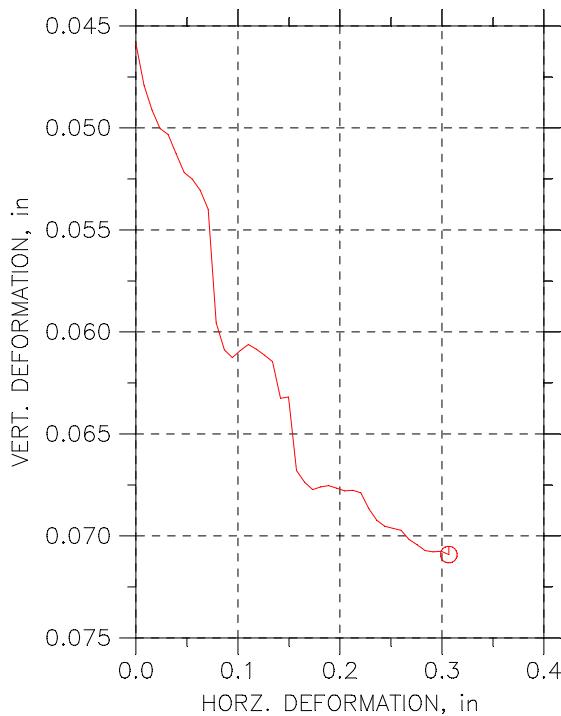
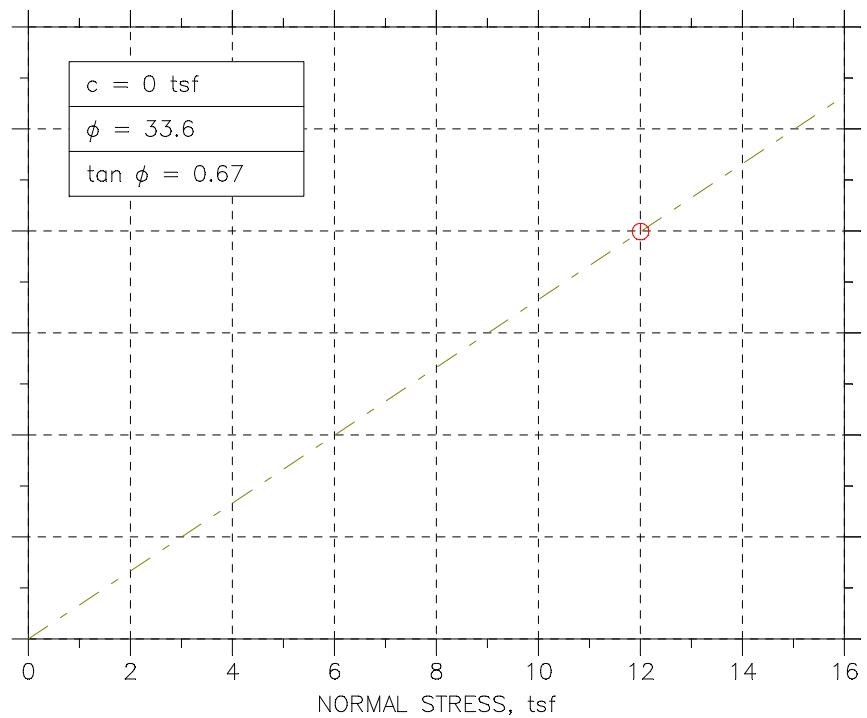
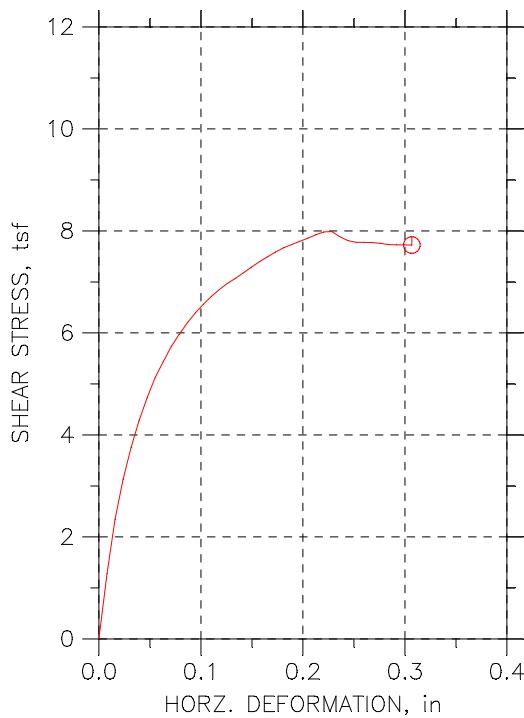
Location: TN
 Tested By: BCM
 Test Date: 3/31/09
 Sample Type: OST 3"

Project No.: 60095742
 Checked By: WPQ
 Depth: 8.5'-11.0'
 Elevation:

Soil Description: SILTY CLAY SOME F-C SAND - BROWN AND GRAY (CL) SILT AND SAND POCKETS NOTED.
 Remarks: TEST PERFORMED AS PER ASTM D 3080

	Elapsed Time min	Vertical Stress tsf	Vertical Displacement in	Horizontal Stress tsf	Horizontal Displacement in
1	0.00	12	0.04369	0	0
2	349.69	12	0.04575	0.03071	0.007916
3	505.21	12	0.04987	0.2268	0.01578
4	681.41	12	0.05074	1.324	0.02365
5	843.68	12	0.05209	2.261	0.03152
6	997.58	12	0.05312	2.991	0.03939
7	1139.69	12	0.05415	3.566	0.04726
8	1292.45	12	0.05512	4.093	0.05512
9	1446.57	12	0.05566	4.547	0.06299
10	1589.18	12	0.05615	4.911	0.07091
11	1724.37	12	0.05734	5.218	0.07878
12	1866.58	12	0.05782	5.49	0.08665
13	2019.79	12	0.05939	5.754	0.09451
14	2176.36	12	0.05991	5.988	0.1024
15	2314.79	12	0.06036	6.162	0.1102
16	2457.52	12	0.06062	6.309	0.1181
17	2593.57	12	0.06087	6.44	0.126
18	2739.85	12	0.0611	6.582	0.1339
19	2876.53	12	0.06126	6.695	0.1418
20	3030.17	12	0.06136	6.796	0.1496
21	3166.27	12	0.06139	6.888	0.1575
22	3318.77	12	0.06171	6.984	0.1654
23	3474.21	12	0.06178	7.064	0.1732
24	3614.78	12	0.06184	7.122	0.1811
25	3749.80	12	0.06187	7.204	0.189
26	3894.81	12	0.062	7.285	0.1969
27	4033.78	12	0.0621	7.362	0.2048
28	4172.30	12	0.06216	7.448	0.2126
29	4329.12	12	0.06229	7.544	0.2205
30	4452.19	12	0.06235	7.611	0.2284
31	4588.62	12	0.06252	7.678	0.2362
32	4744.38	12	0.06277	7.749	0.2441
33	4881.38	12	0.06322	7.792	0.252
34	5025.19	12	0.06387	7.821	0.2599
35	5162.34	12	0.06419	7.786	0.2678
36	5291.95	12	0.06464	7.693	0.2756
37	5431.63	12	0.06483	7.644	0.2835
38	5568.93	11.99	0.06493	7.608	0.2914
39	5708.23	12	0.06493	7.563	0.2992
40	5853.78	12	0.06689	7.563	0.3071
41	5929.26	12	0.06811	7.584	0.312

DIRECT SHEAR TEST REPORT



Symbol	\odot			
Test No.	5742210BS3			
Sample No.	OST-3			
Shape	Circular			
Initial	Dimension, in	2.5		
	Area, in ²	4.9087		
	Height, in	0.81378		
	Water Content, %	20.80		
	Dry Density,pcf	105.62		
	Saturation, %	94.86		
	Void Ratio	0.58996		
	Consol. Height, in	0.7696		
	Consol. Void Ratio	0.50365		
Final	Water Content, %	16.79		
	Dry Density, pcf	115.7		
	Saturation, %	100.03		
	Void Ratio	0.45141		
	Normal Stress, tsf	12.003		
	Max. Shear Stress, tsf	7.9879		
	Ult. Shear Stress, tsf	7.7233		
	Time to Failure, min	4531.8		

Project: KINGSTON COAL TVA	Disp. Rate, in/min	5.5118e-005
Location: TN	Estimated Specific Gravity	2.69
Project No.: 60095742	Liquid Limit	19
Boring No.: 09-210B S-3	Plastic Limit	15
Sample Type: OST 3"	Plasticity Index	4
Description: CLAYEY SILT LITTLE F SAND - BROWN (CL-ML) SILT AND SAND POCKETS NOTED.		
Remarks: TEST PERFORMED AS PER ASTM D3080		

DIRECT SHEAR TEST DATA

Project: KINGSTON COAL TVA
 Boring No.: 09-210B S-3
 Sample No.: OST-3
 Test No.: 5742210BS3

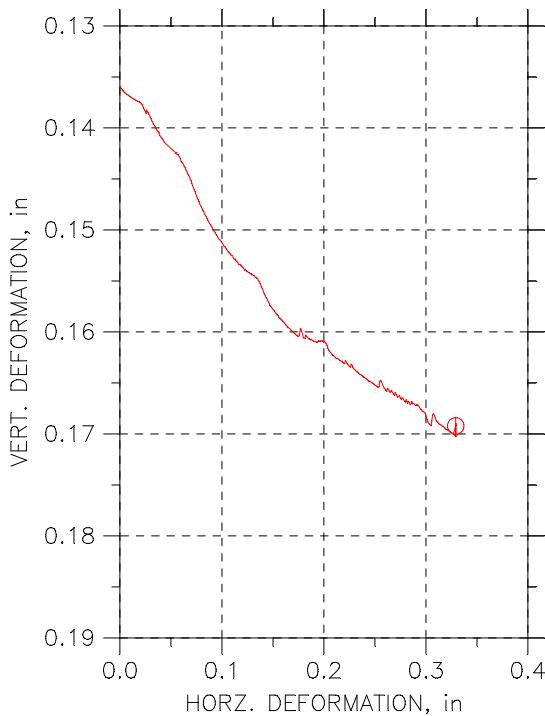
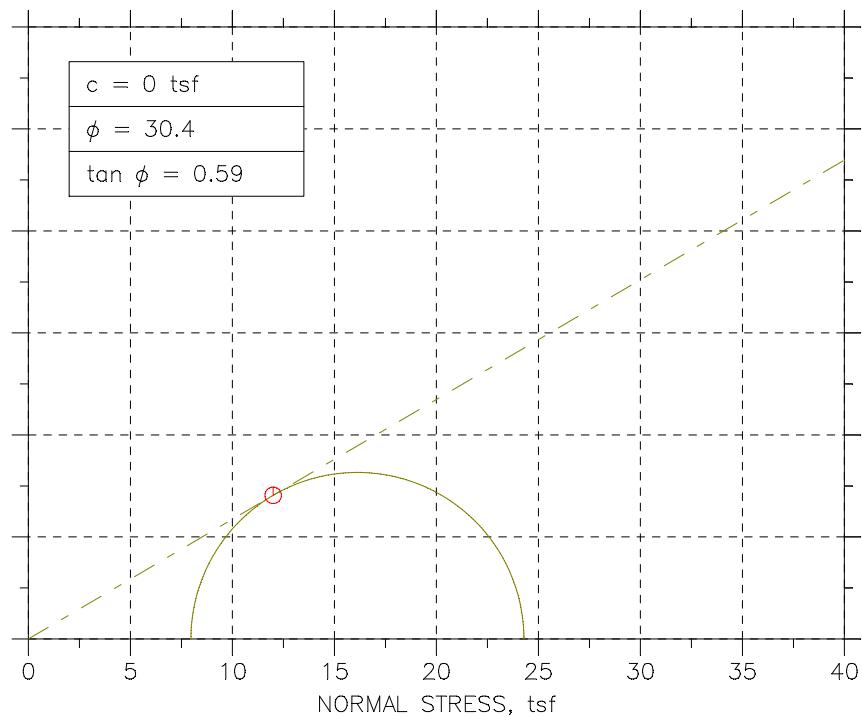
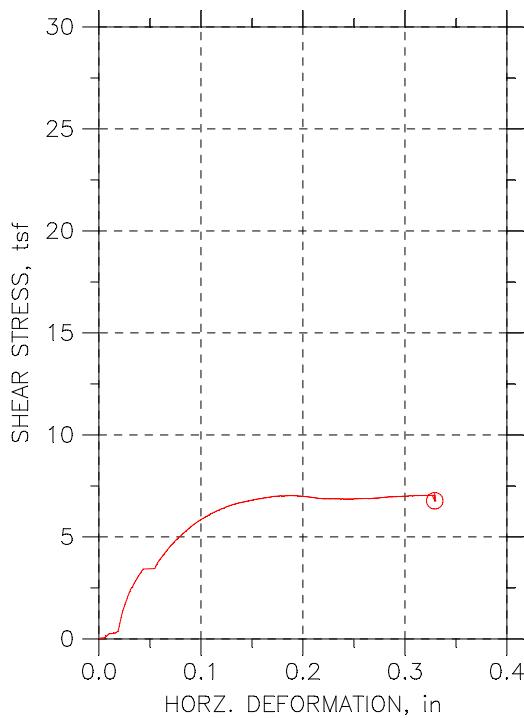
Location: TN
 Tested By: BCM
 Test Date: 4/7/09
 Sample Type: OST 3"

Project No.: 60095742
 Checked By: WPQ
 Depth: 12.5'-15.0'
 Elevation:

Soil Description: CLAYEY SILT LITTLE F SAND - BROWN (CL-ML) SILT AND SAND POCKETS NOTED.
 Remarks: TEST PERFORMED AS PER ASTM D3080

	Elapsed Time min	Vertical Stress tsf	Vertical Displacement in	Horizontal Stress tsf	Horizontal Displacement in
1	0.00	12	0.04585	0	0
2	512.21	12	0.04791	1.281	0.007916
3	677.63	12	0.04913	2.345	0.01578
4	827.39	12	0.05003	3.123	0.02365
5	971.41	12	0.05032	3.75	0.03152
6	1118.91	12	0.05125	4.279	0.03939
7	1267.36	12	0.05219	4.734	0.04726
8	1419.30	12	0.05251	5.128	0.05512
9	1555.18	12	0.05306	5.434	0.06299
10	1702.05	12	0.05399	5.729	0.07091
11	1841.48	12	0.05956	5.973	0.07878
12	1990.18	12	0.06087	6.199	0.08665
13	2138.64	12	0.06126	6.393	0.09451
14	2279.97	12	0.06091	6.563	0.1024
15	2417.91	12	0.06062	6.715	0.1102
16	2558.89	12	0.06084	6.85	0.1181
17	2702.36	12	0.06113	6.97	0.126
18	2837.43	12	0.06145	7.071	0.1339
19	2976.92	12	0.06326	7.179	0.1418
20	3115.19	12	0.06319	7.289	0.1496
21	3264.58	12	0.06679	7.397	0.1575
22	3405.83	12	0.06737	7.494	0.1654
23	3544.64	12	0.06773	7.589	0.1732
24	3688.13	12	0.0676	7.671	0.1811
25	3837.29	12	0.06754	7.733	0.189
26	3970.51	12	0.06766	7.797	0.1969
27	4100.71	12	0.06779	7.858	0.2048
28	4242.47	12	0.06776	7.923	0.2126
29	4392.05	12	0.06789	7.982	0.2205
30	4531.76	12	0.06866	7.988	0.2284
31	4670.73	12	0.06924	7.885	0.2362
32	4804.76	12	0.06953	7.812	0.2441
33	4960.01	12	0.06963	7.778	0.252
34	5082.75	12	0.06972	7.777	0.2599
35	5236.10	11.99	0.07017	7.771	0.2678
36	5364.40	12	0.07043	7.758	0.2756
37	5512.86	11.99	0.07072	7.734	0.2835
38	5640.29	12	0.07078	7.725	0.2914
39	5785.85	12	0.07075	7.726	0.2992
40	5925.81	12.01	0.07091	7.723	0.3067

DIRECT SHEAR TEST REPORT



Symbol	Ø		
Test No.	5742605BS9D		
Sample No.	OST-9		
Shape	Circular		
Initial	Dimension, in	2.3642	
	Area, in ²	4.3898	
	Height, in	0.93898	
	Water Content, %	21.53	
	Dry Density, pcf	103.8	
	Saturation, %	91.15	
	Void Ratio	0.64625	
	Consol. Height, in	0.80665	
	Consol. Void Ratio	0.41424	
Final	Water Content, %	12.78	
	Dry Density, pcf	126.6	
	Saturation, %	100.05	
	Void Ratio	0.34957	
	Normal Stress, tsf	11.996	
	Max. Shear Stress, tsf	7.0393	
	Ult. Shear Stress, tsf	6.7714	
	Time to Failure, min	6225	

Project: KINGSTON COAL	Disp. Rate, in/min	4.0945e-005
Location: TN	Measured Specific Gravity	2.74
Project No.: 60095742	Liquid Limit	33
Boring No.: 09-605B S-9	Plastic Limit	19
Sample Type: 3" OST	Plasticity Index	14
Description: SILTY CLAY LITTLE F-M SAND - BROWN AND GRAY (CL)		
Remarks: TEST PERFORMED AS PER ASTM D 3080		

DIRECT SHEAR TEST DATA

Project: KINGSTON COAL
 Boring No.: 09-605B S-9
 Sample No.: OST-9
 Test No.: 5742605BS9D

Location: TN
 Tested By: BCM
 Test Date: 02/09/09
 Sample Type: 3" OST

Project No.: 60095742
 Checked By: WPQ
 Depth: 52.0' - 54.5'
 Elevation:

Soil Description: SILTY CLAY LITTLE F-M SAND - BROWN AND GRAY (CL)
 Remarks: TEST PERFORMED AS PER ASTM D 3080

Step: 1 of 1

	Elapsed Time min	Vertical Stress tsf	Vertical Displacement in	Horizontal Stress tsf	Horizontal Displacement in	Cumulative Displacement in
1	0.00	12	0.1359	0	0	0
2	15.00	12	0.136	0.02948	0.0004232	0.0004232
3	30.00	12	0.1361	0.02905	0.0007054	0.0007054
4	45.00	12	0.1361	0.03555	0.001552	0.001552
5	60.00	12	0.1363	0.03772	0.002257	0.002257
6	75.00	12	0.1364	0.03945	0.002963	0.002963
7	90.00	12	0.1365	0.04119	0.003809	0.003809
8	105.00	12	0.1365	0.04335	0.004514	0.004514
9	120.00	12	0.1366	0.06113	0.005361	0.005361
10	135.00	12	0.1367	0.07717	0.006207	0.006207
11	150.00	12	0.1367	0.1452	0.006771	0.006771
12	165.00	12	0.1368	0.1422	0.007618	0.007618
13	180.00	12	0.1368	0.1747	0.008464	0.008464
14	195.00	12	0.1369	0.2224	0.00917	0.00917
15	210.00	12	0.1369	0.2454	0.01002	0.01002
16	225.00	12	0.137	0.2562	0.01072	0.01072
17	240.00	12	0.137	0.2558	0.01157	0.01157
18	255.00	12	0.1371	0.2575	0.01227	0.01227
19	270.00	12	0.1371	0.264	0.01312	0.01312
20	285.00	12	0.1372	0.2636	0.01383	0.01383
21	300.00	12	0.1372	0.3095	0.01453	0.01453
22	315.00	12	0.1373	0.2749	0.01552	0.01552
23	330.00	12	0.1373	0.2965	0.01636	0.01636
24	345.00	12	0.1374	0.3221	0.01707	0.01707
25	360.00	12	0.1374	0.3477	0.01792	0.01792
26	375.00	12	0.1374	0.3681	0.01862	0.01862
27	390.00	12	0.1375	0.4808	0.01933	0.01933
28	405.00	12	0.1375	0.6104	0.01989	0.01989
29	420.00	12	0.1376	0.7622	0.02046	0.02046
30	435.00	12	0.1376	0.907	0.02116	0.02116
31	450.00	12	0.1377	1.042	0.02173	0.02173
32	465.00	12	0.1378	1.16	0.02229	0.02229
33	480.00	12	0.138	1.275	0.02285	0.02285
34	495.00	12	0.1381	1.385	0.02356	0.02356
35	510.00	12	0.1383	1.496	0.02426	0.02426
36	525.00	12	0.1384	1.599	0.02497	0.02497
37	540.00	12	0.1386	1.697	0.02553	0.02553
38	555.00	12	0.1383	1.797	0.02638	0.02638
39	570.00	12	0.1384	1.891	0.02694	0.02694
40	585.00	12	0.1385	1.98	0.02765	0.02765
41	600.00	12	0.1386	2.074	0.02821	0.02821
42	615.00	12	0.1388	2.171	0.02906	0.02906
43	630.00	12	0.1389	2.26	0.02963	0.02963
44	645.00	12	0.1391	2.346	0.03047	0.03047
45	660.00	12	0.1393	2.425	0.03104	0.03104
46	675.00	12	0.1394	2.501	0.03174	0.03174
47	690.00	12	0.1396	2.511	0.03259	0.03259
48	705.00	12	0.1397	2.585	0.03329	0.03329
49	720.00	12	0.1398	2.661	0.034	0.034
50	735.00	12	0.1399	2.736	0.0347	0.0347
51	750.00	12	0.1401	2.795	0.03541	0.03541
52	765.00	12	0.1402	2.849	0.03611	0.03611
53	780.00	12	0.1403	2.906	0.03682	0.03682
54	795.00	12	0.1404	2.971	0.03753	0.03753
55	810.00	12	0.1405	3.037	0.03823	0.03823
56	825.00	12	0.1407	3.098	0.03908	0.03908
57	840.00	12	0.1408	3.152	0.03978	0.03978
58	855.00	12	0.1409	3.209	0.04049	0.04049
59	870.00	12	0.141	3.264	0.04119	0.04119
60	885.00	12	0.1411	3.32	0.0419	0.0419
61	900.00	12	0.1412	3.374	0.04275	0.04275
62	915.00	12	0.1414	3.425	0.04345	0.04345
63	1125.00	12	0.1425	3.447	0.05488	0.05488
64	1140.00	12	0.1424	3.535	0.05558	0.05558
65	1155.00	12	0.1426	3.61	0.05615	0.05615
66	1170.00	12	0.1426	3.676	0.05699	0.05699
67	1185.00	12	0.1427	3.736	0.05756	0.05756
68	1200.00	12	0.1428	3.798	0.0584	0.0584
69	1215.00	12	0.143	3.855	0.05911	0.05911
70	1230.00	12	0.1433	3.905	0.05996	0.05996
71	1245.00	12	0.1433	3.948	0.06066	0.06066
72	1260.00	12	0.1434	3.998	0.06137	0.06137
73	1275.00	12	0.1436	4.053	0.06221	0.06221
74	1290.00	12	0.1437	4.107	0.06292	0.06292
75	1305.00	12	0.1439	4.158	0.06376	0.06376
76	1320.00	12	0.1441	4.203	0.06447	0.06447
77	1335.00	12	0.1442	4.249	0.06518	0.06518
78	1350.00	12	0.1443	4.292	0.06588	0.06588
79	1365.00	12	0.1446	4.34	0.06673	0.06673

80	1380.00	12	0. 1446	4. 389	0. 06743	0. 06743
81	1395.00	12	0. 1448	4. 437	0. 06828	0. 06828
82	1410.00	12	0. 145	4. 486	0. 06898	0. 06898
83	1425.00	12	0. 1452	4. 531	0. 06983	0. 06983
84	1440.00	12	0. 1454	4. 571	0. 07054	0. 07054
85	1455.00	12	0. 1457	4. 607	0. 07124	0. 07124
86	1470.00	12	0. 1458	4. 653	0. 07195	0. 07195
87	1485.00	12	0. 146	4. 699	0. 07279	0. 07279
88	1500.00	12	0. 1463	4. 742	0. 07364	0. 07364
89	1515.00	12	0. 1465	4. 781	0. 07435	0. 07435
90	1530.00	12	0. 1467	4. 827	0. 07519	0. 07519
91	1545.00	12	0. 1469	4. 859	0. 0759	0. 0759
92	1560.00	12	0. 147	4. 898	0. 07674	0. 07674
93	1575.00	12	0. 1472	4. 938	0. 07745	0. 07745
94	1590.00	12	0. 1474	4. 977	0. 0783	0. 0783
95	1605.00	12	0. 1476	5. 013	0. 07914	0. 07914
96	1620.00	12	0. 1477	5. 045	0. 07999	0. 07999
97	1635.00	12	0. 148	5. 078	0. 08069	0. 08069
98	1650.00	12	0. 1481	5. 117	0. 0814	0. 0814
99	1665.00	12	0. 1482	5. 156	0. 08225	0. 08225
100	1680.00	12	0. 1484	5. 191	0. 08295	0. 08295
101	1695.00	12	0. 1486	5. 225	0. 0838	0. 0838
102	1710.00	12	0. 1487	5. 26	0. 08464	0. 08464
103	1725.00	12	0. 1489	5. 293	0. 08535	0. 08535
104	1740.00	12	0. 149	5. 326	0. 0862	0. 0862
105	1755.00	12	0. 1492	5. 359	0. 0869	0. 0869
106	1770.00	12	0. 1493	5. 398	0. 08775	0. 08775
107	1785.00	12	0. 1495	5. 437	0. 08859	0. 08859
108	1800.00	12	0. 1496	5. 465	0. 08944	0. 08944
109	1815.00	12	0. 1497	5. 495	0. 09015	0. 09015
110	1830.00	12	0. 1498	5. 528	0. 09099	0. 09099
111	1845.00	12	0. 15	5. 56	0. 0917	0. 0917
112	1860.00	12	0. 1501	5. 591	0. 09254	0. 09254
113	1875.00	12	0. 1503	5. 623	0. 09339	0. 09339
114	1890.00	12	0. 1504	5. 656	0. 09424	0. 09424
115	1905.00	12	0. 1505	5. 683	0. 09508	0. 09508
116	1920.00	12	0. 1507	5. 711	0. 09579	0. 09579
117	1935.00	12	0. 1508	5. 736	0. 09663	0. 09663
118	1950.00	12	0. 1509	5. 762	0. 09734	0. 09734
119	1965.00	12	0. 151	5. 792	0. 09819	0. 09819
120	1980.00	12	0. 1511	5. 818	0. 09903	0. 09903
121	1995.00	12	0. 1512	5. 844	0. 09988	0. 09988
122	2010.00	12	0. 1513	5. 867	0. 1006	0. 1006
123	2025.00	12	0. 1515	5. 894	0. 1014	0. 1014
124	2040.00	12	0. 1516	5. 913	0. 1023	0. 1023
125	2055.00	12	0. 1517	5. 936	0. 1031	0. 1031
126	2070.00	12	0. 1518	5. 964	0. 104	0. 104
127	2085.00	12	0. 1519	5. 992	0. 1047	0. 1047
128	2100.00	12	0. 152	6. 014	0. 1055	0. 1055
129	2115.00	12	0. 1522	6. 032	0. 1064	0. 1064
130	2130.00	12	0. 1522	6. 055	0. 1072	0. 1072
131	2145.00	12	0. 1523	6. 08	0. 1079	0. 1079
132	2160.00	12	0. 1525	6. 104	0. 1088	0. 1088
133	2175.00	12	0. 1525	6. 128	0. 1096	0. 1096
134	2190.00	12	0. 1525	6. 148	0. 1105	0. 1105
135	2205.00	12	0. 1528	6. 172	0. 1113	0. 1113
136	2220.00	12	0. 1529	6. 192	0. 1122	0. 1122
137	2235.00	12	0. 1529	6. 206	0. 113	0. 113
138	2250.00	12	0. 153	6. 227	0. 1137	0. 1137
139	2265.00	12	0. 1531	6. 252	0. 1146	0. 1146
140	2280.00	12	0. 1532	6. 272	0. 1154	0. 1154
141	2295.00	12	0. 1533	6. 287	0. 1162	0. 1162
142	2310.00	12	0. 1534	6. 302	0. 1171	0. 1171
143	2325.00	12	0. 1534	6. 321	0. 1178	0. 1178
144	2340.00	12	0. 1535	6. 343	0. 1186	0. 1186
145	2355.00	12	0. 1536	6. 361	0. 1195	0. 1195
146	2370.00	12	0. 1536	6. 378	0. 1203	0. 1203
147	2385.00	12	0. 1537	6. 396	0. 1212	0. 1212
148	2400.00	12	0. 1539	6. 407	0. 122	0. 122
149	2415.00	12	0. 1539	6. 42	0. 1229	0. 1229
150	2430.00	12	0. 154	6. 439	0. 1236	0. 1236
151	2445.00	12	0. 154	6. 461	0. 1244	0. 1244
152	2460.00	12	0. 1541	6. 477	0. 1253	0. 1253
153	2475.00	12	0. 1542	6. 489	0. 126	0. 126
154	2490.00	12	0. 1542	6. 506	0. 1268	0. 1268
155	2505.00	12	0. 1543	6. 52	0. 1277	0. 1277
156	2520.00	12	0. 1543	6. 533	0. 1284	0. 1284
157	2535.00	12	0. 1544	6. 55	0. 1292	0. 1292
158	2550.00	12	0. 1544	6. 566	0. 1301	0. 1301
159	2565.00	12	0. 1545	6. 58	0. 1309	0. 1309
160	2580.00	12	0. 1545	6. 591	0. 1318	0. 1318
161	2595.00	12	0. 1546	6. 601	0. 1325	0. 1325
162	2610.00	12	0. 1547	6. 614	0. 1335	0. 1335
163	2625.00	12	0. 1547	6. 624	0. 1342	0. 1342
164	2640.00	12	0. 1548	6. 636	0. 135	0. 135
165	2655.00	12	0. 155	6. 649	0. 1359	0. 1359
166	2670.00	12	0. 1551	6. 657	0. 1367	0. 1367
167	2685.00	12	0. 1553	6. 67	0. 1374	0. 1374
168	2700.00	12	0. 1555	6. 675	0. 1383	0. 1383
169	2715.00	12	0. 1556	6. 683	0. 139	0. 139
170	2730.00	12	0. 1558	6. 692	0. 1398	0. 1398
171	2745.00	12	0. 156	6. 707	0. 1406	0. 1406
172	2760.00	12	0. 1562	6. 712	0. 1414	0. 1414
173	2775.00	12	0. 1564	6. 719	0. 1423	0. 1423
174	2790.00	12	0. 1566	6. 727	0. 1432	0. 1432

175	2805.00	12	0.1567	6.729	0.1439	0.1439
176	2820.00	12	0.1569	6.741	0.1446	0.1446
177	2835.00	12	0.157	6.75	0.1454	0.1454
178	2850.00	12	0.1572	6.761	0.1463	0.1463
179	2865.00	12	0.1574	6.771	0.147	0.147
180	2880.00	12	0.1575	6.777	0.1478	0.1478
181	2895.00	12	0.1576	6.781	0.1487	0.1487
182	2910.00	12	0.1577	6.791	0.1494	0.1494
183	2925.00	12	0.1578	6.802	0.1501	0.1501
184	2940.00	12	0.1579	6.815	0.1511	0.1511
185	2955.00	12	0.158	6.824	0.1518	0.1518
186	2970.00	12	0.1581	6.829	0.1526	0.1526
187	2985.00	12	0.1582	6.837	0.1535	0.1535
188	3000.00	12	0.1583	6.845	0.1542	0.1542
189	3015.00	12	0.1584	6.849	0.155	0.155
190	3030.00	12	0.1586	6.857	0.1557	0.1557
191	3045.00	12	0.1586	6.867	0.1566	0.1566
192	3060.00	12	0.1587	6.87	0.1574	0.1574
193	3075.00	12	0.1588	6.875	0.1583	0.1583
194	3090.00	12	0.1589	6.879	0.159	0.159
195	3105.00	12	0.159	6.887	0.1597	0.1597
196	3120.00	12	0.159	6.897	0.1605	0.1605
197	3135.00	12	0.1591	6.907	0.1614	0.1614
198	3150.00	12	0.1593	6.913	0.1622	0.1622
199	3165.00	12	0.1594	6.912	0.1629	0.1629
200	3180.00	12	0.1594	6.916	0.1638	0.1638
201	3195.00	12	0.1595	6.923	0.1645	0.1645
202	3210.00	12	0.1596	6.928	0.1653	0.1653
203	3225.00	12	0.1597	6.938	0.1662	0.1662
204	3240.00	12	0.1597	6.947	0.167	0.167
205	3255.00	12	0.1598	6.955	0.1679	0.1679
206	3270.00	12	0.1599	6.958	0.1686	0.1686
207	3285.00	12	0.16	6.963	0.1694	0.1694
208	3300.00	12	0.1601	6.975	0.1701	0.1701
209	3315.00	12	0.1602	6.983	0.171	0.171
210	3330.00	12	0.1602	6.986	0.1718	0.1718
211	3345.00	12	0.1603	6.989	0.1725	0.1725
212	3360.00	12	0.1603	6.995	0.1734	0.1734
213	3375.00	12	0.1604	6.992	0.1742	0.1742
214	3390.00	12	0.1605	6.996	0.1751	0.1751
215	3405.00	12	0.1604	6.999	0.1758	0.1758
216	3420.00	12	0.1599	7.006	0.1766	0.1766
217	3435.00	12	0.1597	7.011	0.1773	0.1773
218	3450.00	12	0.16	7.015	0.1782	0.1782
219	3465.00	12	0.1602	7.01	0.179	0.179
220	3480.00	12	0.1605	7.009	0.1797	0.1797
221	3495.00	12	0.1606	7.01	0.1806	0.1806
222	3510.00	12	0.1606	7.013	0.1814	0.1814
223	3525.00	12	0.1603	7.011	0.1821	0.1821
224	3540.00	12	0.1604	7.019	0.183	0.183
225	3555.00	12	0.1605	7.019	0.1838	0.1838
226	3570.00	12	0.1606	7.016	0.1847	0.1847
227	3585.00	12	0.1607	7.018	0.1854	0.1854
228	3600.00	12	0.1607	7.022	0.1862	0.1862
229	3615.00	12	0.1608	7.026	0.1869	0.1869
230	3630.00	12	0.1608	7.025	0.1878	0.1878
231	3645.00	12	0.1608	7.026	0.1886	0.1886
232	3660.00	12	0.1609	7.024	0.1895	0.1895
233	3675.00	12	0.1609	7.022	0.1902	0.1902
234	3690.00	12	0.161	7.018	0.1909	0.1909
235	3705.00	12	0.161	7.022	0.1917	0.1917
236	3720.00	12	0.161	7.021	0.1926	0.1926
237	3735.00	12	0.161	7.022	0.1934	0.1934
238	3750.00	12	0.1609	7.014	0.1943	0.1943
239	3765.00	12	0.1609	7.01	0.195	0.195
240	3780.00	12	0.1609	7.007	0.1958	0.1958
241	3795.00	12	0.1609	7.002	0.1965	0.1965
242	3810.00	12	0.1609	7.002	0.1974	0.1974
243	3825.00	12	0.1609	6.999	0.1982	0.1982
244	3840.00	12	0.1609	6.994	0.1991	0.1991
245	3855.00	12	0.161	6.986	0.1999	0.1999
246	3870.00	12	0.1609	6.983	0.2007	0.2007
247	3885.00	12	0.1611	6.979	0.2016	0.2016
248	3900.00	12	0.1611	6.982	0.2023	0.2023
249	3915.00	12	0.1613	6.976	0.203	0.203
250	3930.00	12	0.1616	6.97	0.2039	0.2039
251	3945.00	12	0.1618	6.964	0.2047	0.2047
252	3960.00	12	0.1619	6.961	0.2055	0.2055
253	3975.00	12	0.162	6.955	0.2064	0.2064
254	3990.00	12	0.1621	6.949	0.2072	0.2072
255	4005.00	12	0.1622	6.944	0.2079	0.2079
256	4020.00	12	0.1623	6.937	0.2088	0.2088
257	4035.00	12	0.1623	6.93	0.2096	0.2096
258	4050.00	12	0.1624	6.927	0.2103	0.2103
259	4065.00	12	0.1625	6.92	0.2112	0.2112
260	4080.00	12	0.1626	6.916	0.2119	0.2119
261	4095.00	12	0.1626	6.915	0.2127	0.2127
262	4110.00	12	0.1626	6.909	0.2136	0.2136
263	4125.00	12	0.1627	6.9	0.2144	0.2144
264	4140.00	12	0.1628	6.89	0.2153	0.2153
265	4155.00	12	0.1628	6.887	0.2161	0.2161
266	4170.00	12	0.1628	6.886	0.217	0.217
267	4185.00	12	0.1629	6.882	0.2177	0.2177
268	4200.00	12	0.163	6.876	0.2185	0.2185
269	4215.00	12	0.1631	6.875	0.2194	0.2194

270	4230.00	12	0. 1631	6. 87	0. 2202	0. 2202
271	4245.00	12	0. 1628	6. 869	0. 2211	0. 2211
272	4260.00	12	0. 1629	6. 869	0. 2219	0. 2219
273	4275.00	12	0. 1631	6. 869	0. 2226	0. 2226
274	4290.00	12	0. 1632	6. 872	0. 2235	0. 2235
275	4305.00	12	0. 1633	6. 873	0. 2243	0. 2243
276	4320.00	12	0. 1634	6. 872	0. 2252	0. 2252
277	4335.00	12	0. 1635	6. 872	0. 226	0. 226
278	4350.00	12	0. 1632	6. 867	0. 2268	0. 2268
279	4365.00	12	0. 1633	6. 87	0. 2276	0. 2276
280	4380.00	12	0. 1634	6. 87	0. 2284	0. 2284
281	4395.00	12	0. 1636	6. 873	0. 2292	0. 2292
282	4410.00	12	0. 1637	6. 871	0. 2301	0. 2301
283	4425.00	12	0. 1638	6. 869	0. 2309	0. 2309
284	4440.00	12	0. 1638	6. 868	0. 2316	0. 2316
285	4455.00	12	0. 1639	6. 869	0. 2325	0. 2325
286	4470.00	12	0. 164	6. 87	0. 2333	0. 2333
287	4485.00	12	0. 1641	6. 869	0. 2342	0. 2342
288	4500.00	12	0. 1642	6. 865	0. 235	0. 235
289	4515.00	12	0. 1642	6. 866	0. 2359	0. 2359
290	4530.00	12	0. 1642	6. 864	0. 2367	0. 2367
291	4545.00	12	0. 1643	6. 864	0. 2374	0. 2374
292	4560.00	12	0. 1644	6. 865	0. 2383	0. 2383
293	4575.00	12	0. 1644	6. 866	0. 2391	0. 2391
294	4590.00	12	0. 1645	6. 861	0. 24	0. 24
295	4605.00	12	0. 1645	6. 859	0. 2408	0. 2408
296	4620.00	12	0. 1646	6. 856	0. 2417	0. 2417
297	4635.00	12	0. 1647	6. 859	0. 2425	0. 2425
298	4650.00	12	0. 1648	6. 859	0. 2434	0. 2434
299	4665.00	12	0. 1648	6. 863	0. 2441	0. 2441
300	4680.00	12	0. 1648	6. 863	0. 2449	0. 2449
301	4695.00	12	0. 1649	6. 862	0. 2457	0. 2457
302	4710.00	12	0. 165	6. 862	0. 2466	0. 2466
303	4725.00	12	0. 165	6. 86	0. 2474	0. 2474
304	4740.00	12	0. 1651	6. 865	0. 2483	0. 2483
305	4755.00	12	0. 1651	6. 865	0. 2491	0. 2491
306	4770.00	12	0. 1652	6. 868	0. 25	0. 25
307	4785.00	12	0. 1653	6. 872	0. 2507	0. 2507
308	4800.00	12	0. 1653	6. 87	0. 2517	0. 2517
309	4815.00	12	0. 1654	6. 867	0. 2524	0. 2524
310	4830.00	12	0. 1655	6. 871	0. 2532	0. 2532
311	4845.00	12	0. 1653	6. 875	0. 2541	0. 2541
312	4860.00	12	0. 1648	6. 876	0. 2548	0. 2548
313	4875.00	12	0. 1647	6. 879	0. 2558	0. 2558
314	4890.00	12	0. 1649	6. 88	0. 2566	0. 2566
315	4905.00	12	0. 1652	6. 877	0. 2575	0. 2575
316	4920.00	12	0. 1654	6. 881	0. 2583	0. 2583
317	4935.00	12	0. 1655	6. 883	0. 2592	0. 2592
318	4950.00	12	0. 1656	6. 881	0. 26	0. 26
319	4965.00	12	0. 1657	6. 883	0. 2607	0. 2607
320	4980.00	12	0. 1658	6. 884	0. 2615	0. 2615
321	4995.00	12	0. 1655	6. 885	0. 2624	0. 2624
322	5010.00	12	0. 1656	6. 882	0. 2632	0. 2632
323	5025.00	12	0. 1658	6. 879	0. 2641	0. 2641
324	5040.00	12	0. 1659	6. 878	0. 2649	0. 2649
325	5055.00	12	0. 1658	6. 878	0. 2658	0. 2658
326	5070.00	12	0. 1658	6. 887	0. 2665	0. 2665
327	5085.00	12	0. 1659	6. 888	0. 2673	0. 2673
328	5100.00	12	0. 1661	6. 889	0. 2683	0. 2683
329	5115.00	12	0. 1662	6. 892	0. 2692	0. 2692
330	5130.00	12	0. 1659	6. 898	0. 2699	0. 2699
331	5145.00	12	0. 1661	6. 901	0. 2707	0. 2707
332	5160.00	12	0. 1663	6. 906	0. 2716	0. 2716
333	5175.00	12	0. 1664	6. 91	0. 2723	0. 2723
334	5190.00	12	0. 1663	6. 908	0. 2733	0. 2733
335	5205.00	12	0. 1663	6. 911	0. 2741	0. 2741
336	5220.00	12	0. 1664	6. 912	0. 2748	0. 2748
337	5235.00	12	0. 1666	6. 917	0. 2757	0. 2757
338	5250.00	12	0. 1665	6. 921	0. 2765	0. 2765
339	5265.00	12	0. 1665	6. 931	0. 2773	0. 2773
340	5280.00	12	0. 1666	6. 93	0. 2781	0. 2781
341	5295.00	12	0. 1668	6. 934	0. 279	0. 279
342	5310.00	12	0. 1669	6. 94	0. 2797	0. 2797
343	5325.00	12	0. 1667	6. 947	0. 2806	0. 2806
344	5340.00	12	0. 1668	6. 947	0. 2813	0. 2813
345	5355.00	12	0. 167	6. 952	0. 2821	0. 2821
346	5370.00	12	0. 1668	6. 957	0. 283	0. 283
347	5385.00	12	0. 167	6. 959	0. 2838	0. 2838
348	5400.00	12	0. 1672	6. 962	0. 2847	0. 2847
349	5415.00	12	0. 167	6. 965	0. 2855	0. 2855
350	5430.00	12	0. 1668	6. 963	0. 2862	0. 2862
351	5445.00	12	0. 167	6. 966	0. 2871	0. 2871
352	5460.00	12	0. 167	6. 965	0. 2879	0. 2879
353	5475.00	12	0. 1671	6. 968	0. 2888	0. 2888
354	5490.00	12	0. 1672	6. 972	0. 2896	0. 2896
355	5505.00	12	0. 1672	6. 978	0. 2905	0. 2905
356	5520.00	12	0. 1671	6. 974	0. 2912	0. 2912
357	5535.00	12	0. 1672	6. 974	0. 292	0. 292
358	5550.00	12	0. 1672	6. 983	0. 2929	0. 2929
359	5565.00	12	0. 1674	6. 98	0. 2937	0. 2937
360	5580.00	12	0. 1676	6. 983	0. 2946	0. 2946
361	5595.00	12	0. 1676	6. 982	0. 2954	0. 2954
362	5610.00	12	0. 1678	6. 984	0. 2961	0. 2961
363	5625.00	12	0. 1678	6. 988	0. 297	0. 297
364	5640.00	12	0. 1678	6. 992	0. 2978	0. 2978

365	5655.00	12	0.1679	6.992	0.2985	0.2985
366	5670.00	12	0.168	6.994	0.2994	0.2994
367	5685.00	12	0.1683	6.996	0.3003	0.3003
368	5700.00	12	0.1686	6.998	0.301	0.301
369	5715.00	12	0.1688	7	0.3019	0.3019
370	5730.00	12	0.169	7.002	0.3026	0.3026
371	5745.00	12	0.169	7.009	0.3034	0.3034
372	5760.00	12	0.1691	7.014	0.3043	0.3043
373	5775.00	12	0.1692	7.016	0.3051	0.3051
374	5790.00	12	0.1687	7.017	0.3058	0.3058
375	5805.00	12	0.1681	7.018	0.3067	0.3067
376	5820.00	12	0.168	7.013	0.3075	0.3075
377	5835.00	12	0.1682	7.016	0.3084	0.3084
378	5850.00	12	0.1684	7.019	0.3091	0.3091
379	5865.00	12	0.1686	7.026	0.3099	0.3099
380	5880.00	12	0.1687	7.032	0.3108	0.3108
381	5895.00	12	0.1689	7.028	0.3116	0.3116
382	5910.00	12	0.169	7.023	0.3123	0.3123
383	5925.00	12	0.169	7.025	0.313	0.313
384	5940.00	12	0.1691	7.026	0.3139	0.3139
385	5955.00	12	0.1691	7.031	0.3147	0.3147
386	5970.00	12	0.1692	7.031	0.3156	0.3156
387	5985.00	12	0.1692	7.027	0.3164	0.3164
388	6000.00	12	0.1693	7.028	0.3171	0.3171
389	6015.00	12	0.1694	7.03	0.318	0.318
390	6030.00	12	0.1694	7.032	0.3187	0.3187
391	6045.00	12	0.1695	7.036	0.3195	0.3195
392	6060.00	12	0.1696	7.035	0.3204	0.3204
393	6075.00	12	0.1696	7.034	0.3212	0.3212
394	6090.00	12	0.1697	7.032	0.3219	0.3219
395	6105.00	12	0.1697	7.033	0.3228	0.3228
396	6120.00	12	0.1698	7.032	0.3236	0.3236
397	6135.00	12	0.1698	7.038	0.3243	0.3243
398	6150.00	12	0.1699	7.034	0.3252	0.3252
399	6165.00	12	0.1699	7.031	0.326	0.326
400	6180.00	12	0.17	7.033	0.3269	0.3269
401	6195.00	12	0.17	7.033	0.3277	0.3277
402	6210.00	12	0.1701	7.037	0.3284	0.3284
403	6225.00	12	0.1702	7.039	0.3293	0.3293
404	6240.00	12	0.1702	6.929	0.3294	0.3294
405	6255.00	12	0.1702	6.889	0.3294	0.3294
406	6270.00	12	0.1703	6.863	0.3293	0.3293
407	6285.00	12	0.1699	6.839	0.3293	0.3293
408	6300.00	12	0.1694	6.823	0.3293	0.3293
409	6315.00	12	0.1691	6.808	0.3293	0.3293
410	6330.00	12	0.169	6.794	0.3293	0.3293
411	6345.00	12	0.169	6.788	0.3293	0.3293
412	6360.00	12	0.169	6.783	0.3293	0.3293
413	6375.00	12	0.1691	6.777	0.3293	0.3293
414	6390.00	12	0.1692	6.772	0.3293	0.3293
415	6392.18	12	0.1692	6.771	0.3293	0.3293
416	6225.00	12	0.1702	7.039	0.3293	0.3293
417	6240.00	12	0.1702	6.929	0.3294	0.3294
418	6255.00	12	0.1702	6.889	0.3294	0.3294
419	6270.00	12	0.1703	6.863	0.3293	0.3293
420	6285.00	12	0.1699	6.839	0.3293	0.3293
421	6300.00	12	0.1694	6.823	0.3293	0.3293
422	6315.00	12	0.1691	6.808	0.3293	0.3293
423	6330.00	12	0.169	6.794	0.3293	0.3293
424	6345.00	12	0.169	6.788	0.3293	0.3293
425	6360.00	12	0.169	6.783	0.3293	0.3293
426	6375.00	12	0.1691	6.777	0.3293	0.3293
427	6390.00	12	0.1692	6.772	0.3293	0.3293
428	6392.18	12	0.1692	6.771	0.3293	0.3293
429	6180.00	12	0.17	7.033	0.3269	0.3269
430	6195.00	12	0.17	7.033	0.3277	0.3277
431	6210.00	12	0.1701	7.037	0.3284	0.3284
432	6225.00	12	0.1702	7.039	0.3293	0.3293
433	6240.00	12	0.1702	6.929	0.3294	0.3294
434	6255.00	12	0.1702	6.889	0.3294	0.3294
435	6270.00	12	0.1703	6.863	0.3293	0.3293
436	6285.00	12	0.1699	6.839	0.3293	0.3293
437	6300.00	12	0.1694	6.823	0.3293	0.3293
438	6315.00	12	0.1691	6.808	0.3293	0.3293
439	6330.00	12	0.169	6.794	0.3293	0.3293
440	6345.00	12	0.169	6.788	0.3293	0.3293
441	6360.00	12	0.169	6.783	0.3293	0.3293
442	6375.00	12	0.1691	6.777	0.3293	0.3293
443	6390.00	12	0.1692	6.772	0.3293	0.3293
444	6392.18	12	0.1692	6.771	0.3293	0.3293