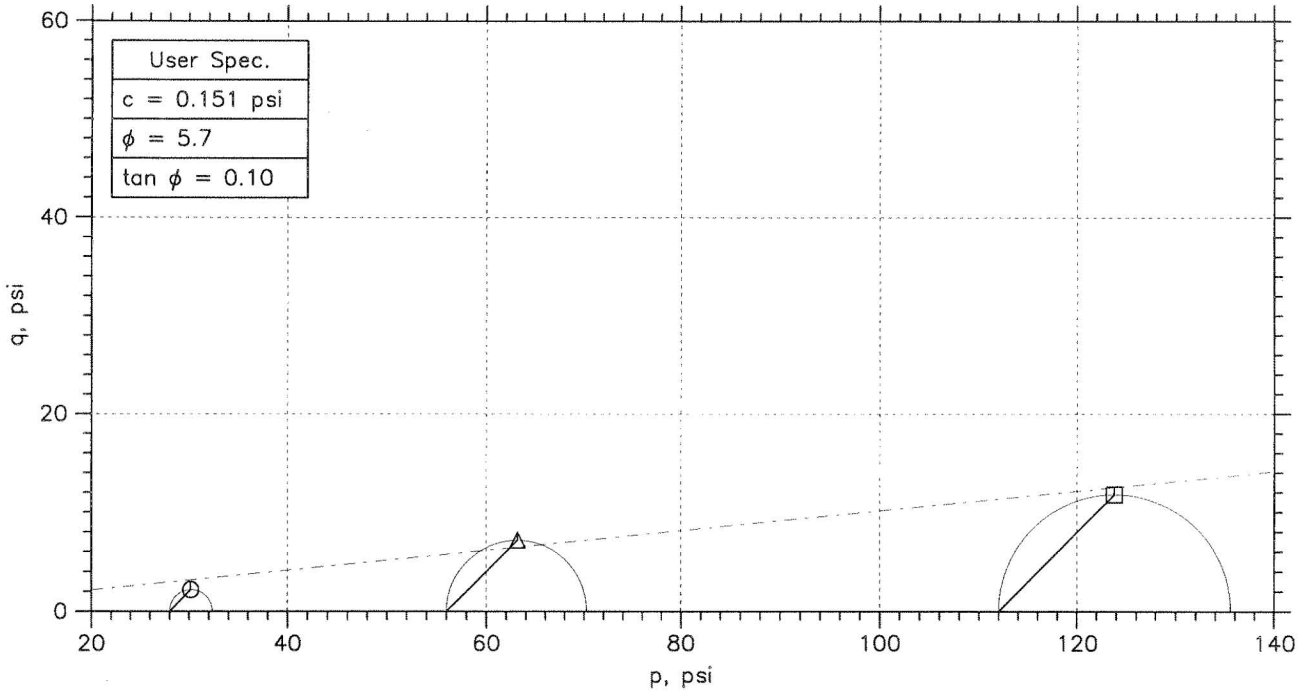
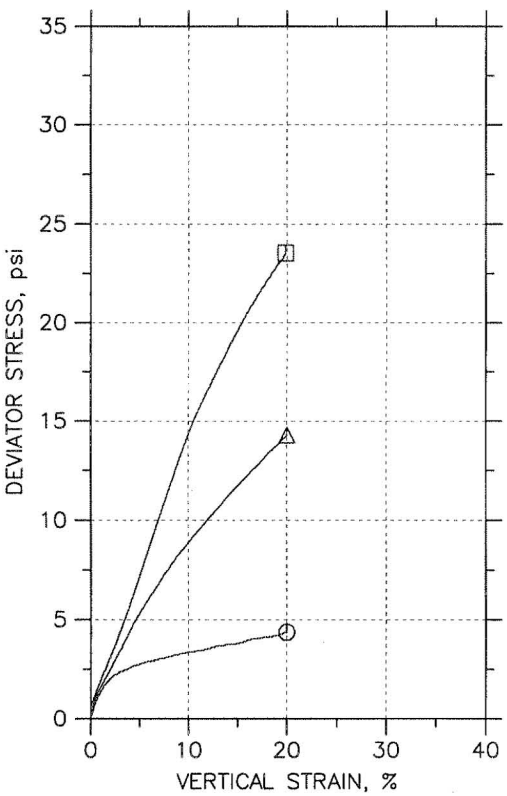
UNCONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D2850





Symbol	⊙	△	⊡	
Sample No.	UD-1	UD-1	UD-1	
Test No.	7625.1	7625.2	7625.3	
Depth	13.50'	13.50'	13.50'	
Tested by	BM	BM	BM	
Test Date	06/28/07	6/27/07	6/27/07	
Checked by	HJ	HJ	HJ	
Check Date	7/30/07	7/30/07	7/30/07	
Diameter, in	2.831	2.825	2.84	
Height, in	5.624	5.598	5.554	
Water Content, %	45.5	38.7	38.1	
Dry Density, pcf	74.4	82.77	82.44	
Saturation, %	97.1	100.9	98.5	
Void Ratio	1.27	1.04	1.04	
Confining Stress, psi	28	56	112	
Undrained Strength, psi	2.181	7.135	11.76	
Max. Dev. Stress, psi	4.362	14.27	23.53	
Strain at Failure, %	20	20	19.9	
Strain Rate, %/min	1	1	1	
Estimated Specific Gravity	2.7	2.7	2.7	
Liquid Limit	---	---	---	
Plastic Limit	---	---	---	
Plasticity Index	---	---	---	

MACTEC

Project: Vogtle COL

Location: B-1162 UD-1

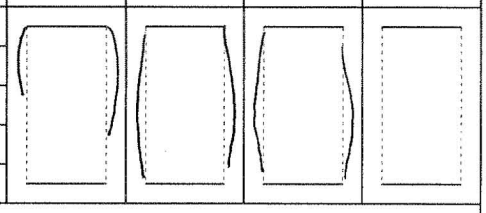
Project No.: 6141060286

Boring No.: B-1162

Sample Type: Undisturbed

Description: SILT (ML) (Visual)

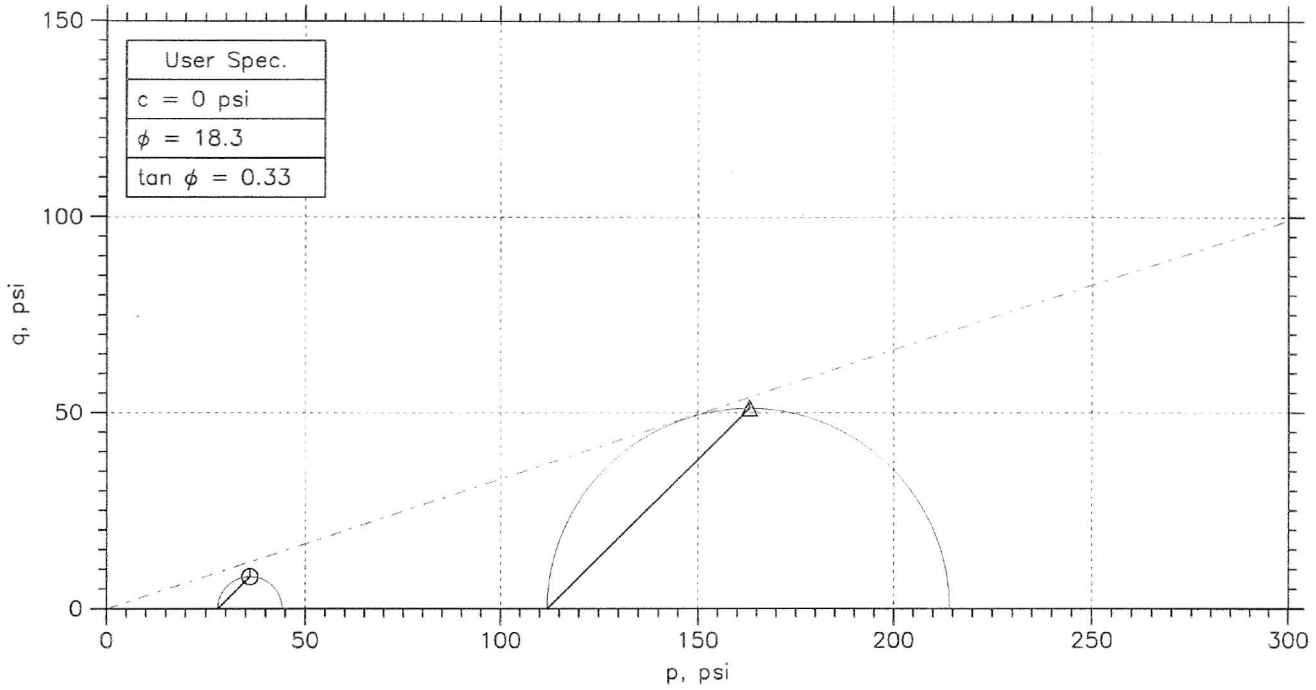
Remarks:

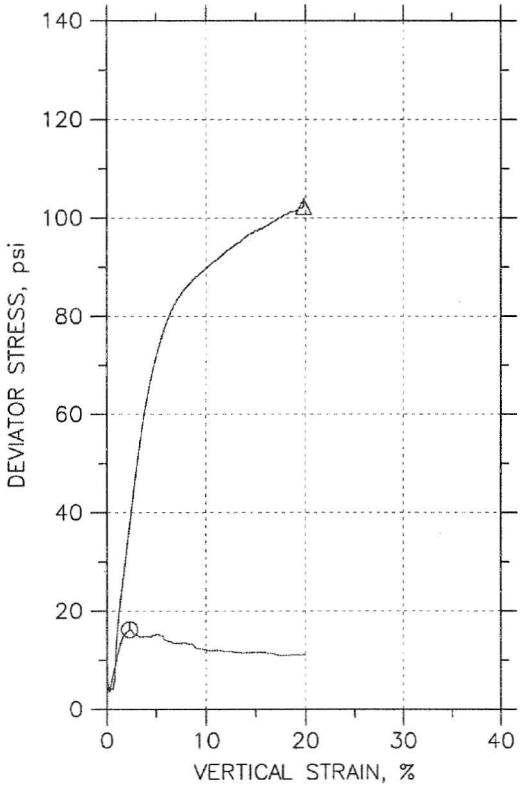


Phase calculations based on start and end of test.

Mon, 30-JUL-2007 11:06:07

UNCONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D2850





Symbol	⦶	△		
Sample No.	UD-4	UD-4		
Test No.	7495.1	7495.3		
Depth	113.50'	113.50'		
Tested by	BM	BM		
Test Date	5/24/07	5/24/07		
Checked by	HJ	HJ		
Check Date				
Diameter, in	2.923	2.875		
Height, in	5.645	5.999		
Water Content, %	23.9	33.1		
Dry Density, pcf	94.29	86.72		
Saturation, %	83.5	96.3		
Void Ratio	0.761	0.912		
Confining Stress, psi	28	112		
Undrained Strength, psi	8.1	51.1		
Max. Dev. Stress, psi	16.2	102.2		
Strain at Failure, %	2.3	19.8		
Strain Rate, %/min	1	1		
Measured Specific Gravity	2.66	2.66		
Liquid Limit	63	63		
Plastic Limit	33	33		
Plasticity Index	30	30		

MACTEC

Project: Vogtle COL

Location: B-3001 UD-4

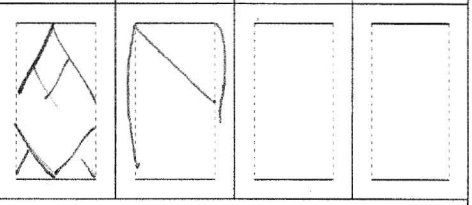
Project No.: 6141060286

Boring No.: B-3001

Sample Type: Undisturbed

Description: SILT, sandy (MH)

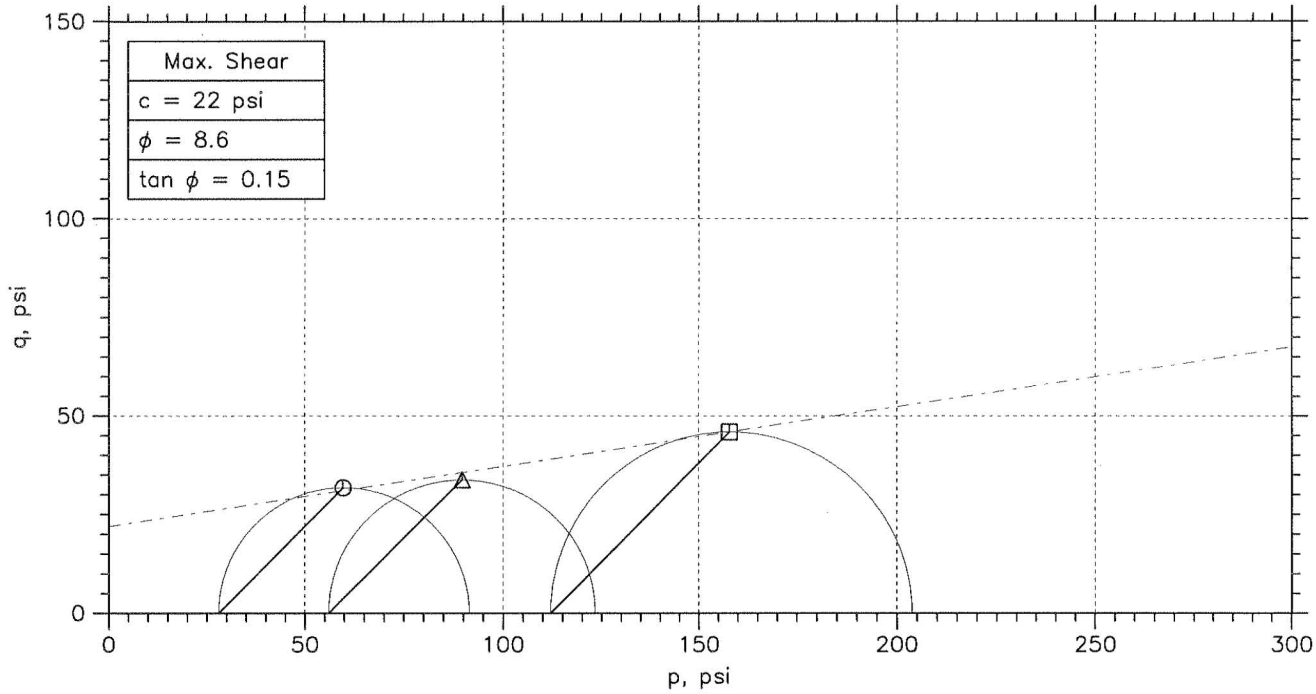
Remarks:

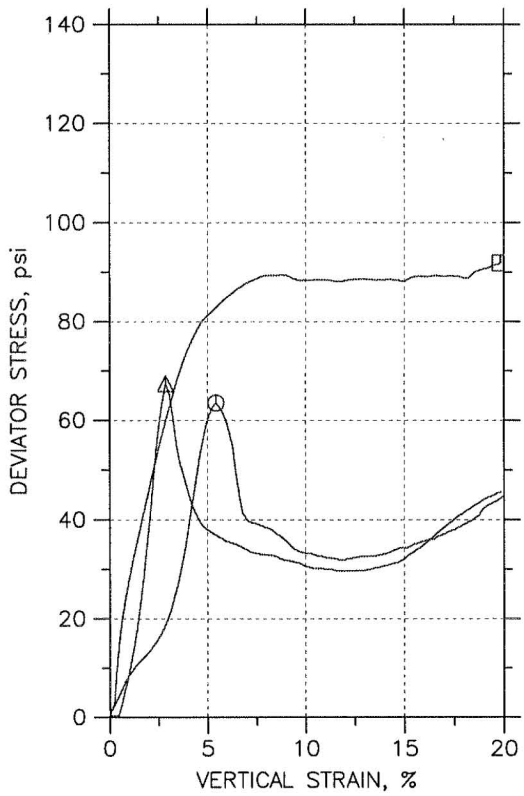


Phase calculations based on start and end of test.

Thu, 27-SEP-2007 15:08:20

UNCONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D2850





Symbol	⦶	△	⊡	
Sample No.	UD-1	UD-1	UD-1	
Test No.	7502.1	7502.2	7502.3	
Depth	97.00'	97.00'	97.00'	
Tested by	BM	BM	BM	
Test Date	05/14/07	05/14/07	05/14/07	
Checked by	HJ	HJ	HJ	
Check Date	7/30/07	7/30/07	7/30/07	
Diameter, in	2.864	2.852	2.817	
Height, in	5.593	6	5.948	
Water Content, %	41.2	41.2	38.0	
Dry Density, pcf	73.01	74.83	77.82	
Saturation, %	85.0	88.8	87.9	
Void Ratio	1.31	1.25	1.17	
Confining Stress, psi	28	56	112	
Undrained Strength, psi	31.74	33.68	45.91	
Max. Dev. Stress, psi	63.48	67.37	91.82	
Strain at Failure, %	5.42	2.86	19.8	
Strain Rate, %/min	1	1	1	
Estimated Specific Gravity	2.7	2.7	2.7	
Liquid Limit	94	94	94	
Plastic Limit	40	40	40	
Plasticity Index	54	54	54	

MACTEC

Project: Vogtle COL

Location: B-3002 UD-1

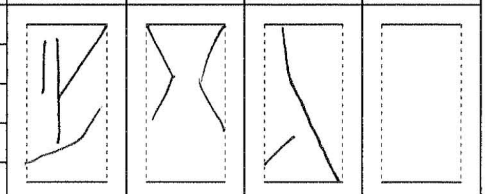
Project No.: 6141060286

Boring No.: B-3002

Sample Type: Undisturbed

Description: SILT (MH)

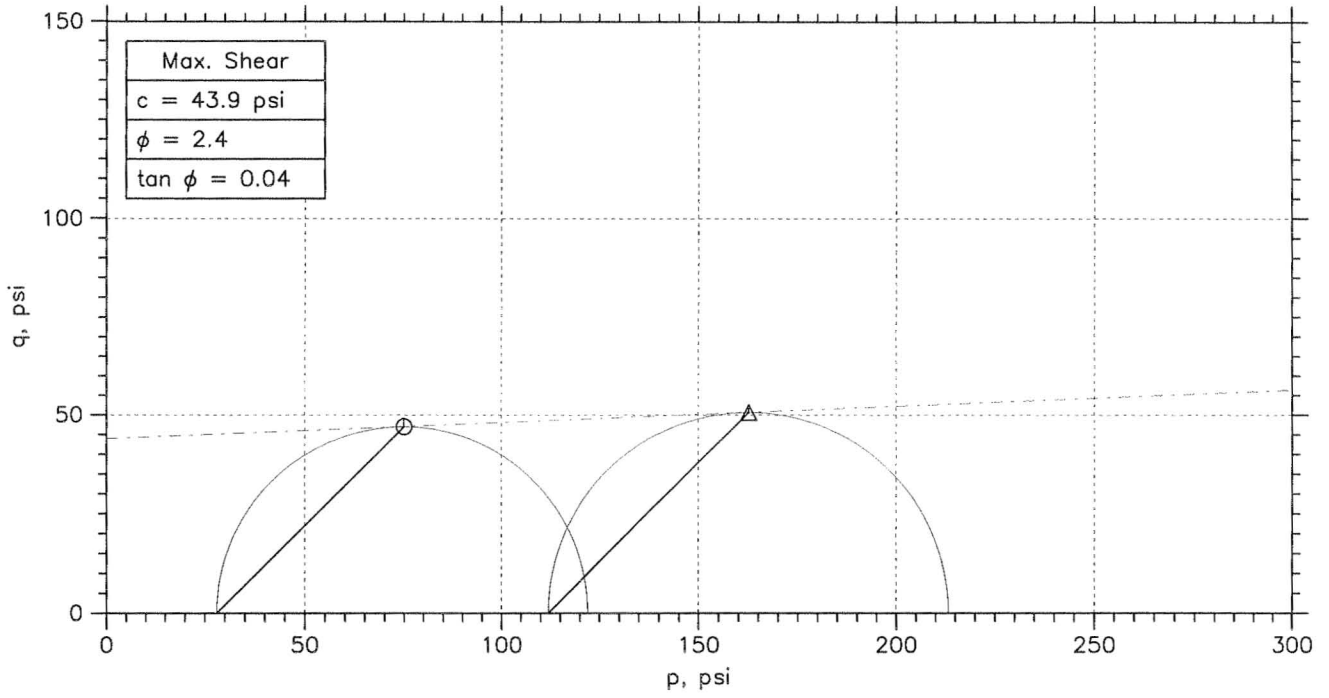
Remarks:

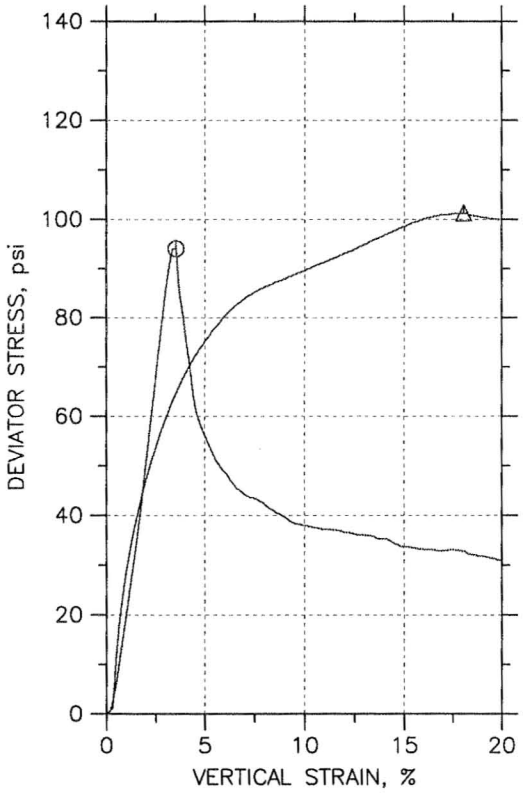


Phase calculations based on start and end of test.

Mon, 30-JUL-2007 15:14:30

UNCONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D2850





Symbol	⦶	△		
Sample No.	UD-2	UD-2		
Test No.	7504.1	7504.3		
Depth	103.00'	103.00'		
Tested by	BM	BM		
Test Date	5/31/07	5/31/07		
Checked by	HJ	HJ		
Check Date	7/30/07	7/30/07		
Diameter, in	2.883	2.88		
Height, in	5.599	5.607		
Water Content, %	33.9	24.4		
Dry Density, pcf	84.71	99.82		
Saturation, %	92.4	95.7		
Void Ratio	0.99	0.689		
Confining Stress, psi	28	112		
Undrained Strength, psi	47.01	50.62		
Max. Dev. Stress, psi	94.01	101.2		
Strain at Failure, %	3.55	18.1		
Strain Rate, %/min	1	1		
Estimated Specific Gravity	2.7	2.7		
Liquid Limit	---	---		
Plastic Limit	---	---		
Plasticity Index	---	---		

MACTEC

Project: Vogtle COL

Location: B-3003 UD-2

Project No.: 6141060286

Boring No.: B-3003

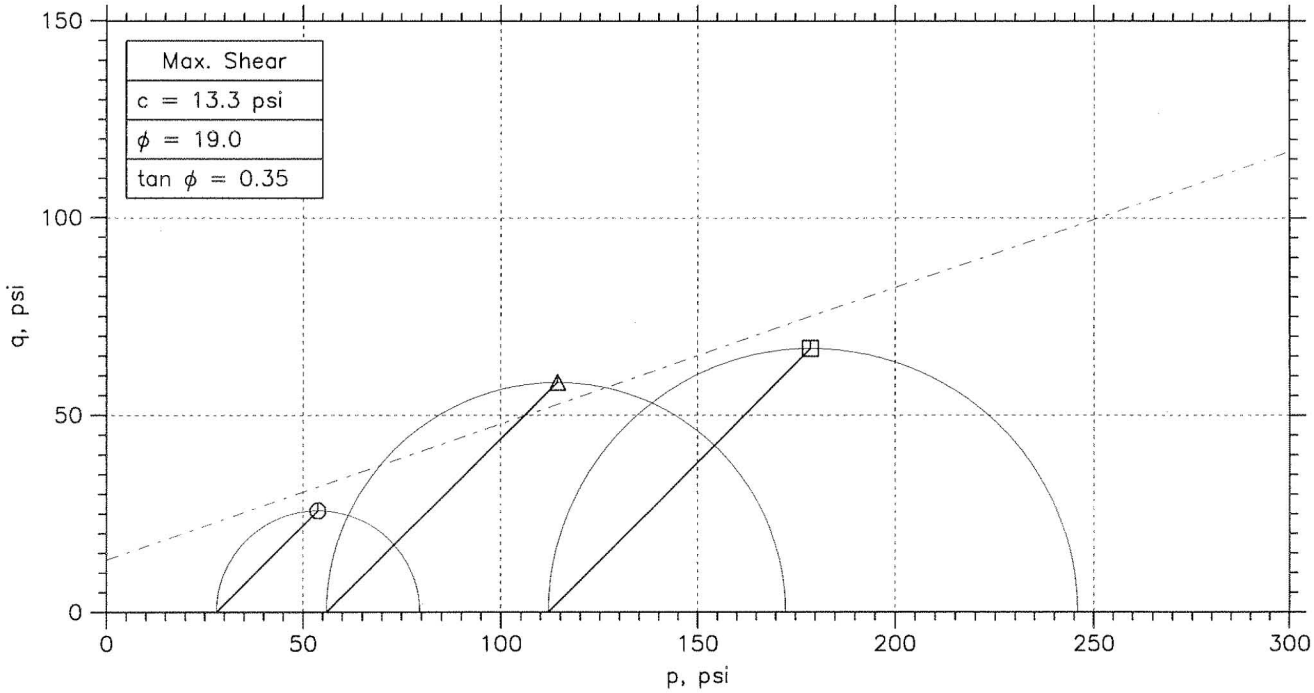
Sample Type: Undisturbed

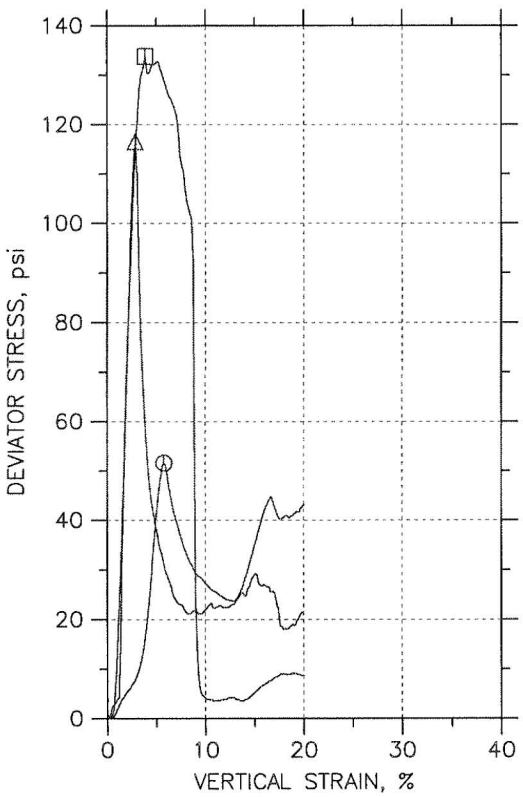
Description: CLAY (CL) (Visual)

Remarks:

Phase calculations based on start and end of test.

UNCONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D2850





Symbol	⊙	△	⊡	
Sample No.	UD-1	UD-1	UD-1	
Test No.	7509.1	7509.2	7509.3	
Depth	93.00'	93.00'	93.00'	
Tested by	BM	BM	BM	
Test Date	5/24/07	5/24/07	5/24/07	
Checked by	HJ	HJ	HJ	
Check Date	7/31/07	7/31/07	7/31/07	
Diameter, in	2.871	2.851	2.867	
Height, in	5.999	5.598	5.63	
Water Content, %	46.8	49.6	55.0	
Dry Density, pcf	69.23	69.73	66.15	
Saturation, %	88.1	94.4	95.9	
Void Ratio	1.43	1.42	1.55	
Confining Stress, psi	28	56	112	
Undrained Strength, psi	25.79	58.25	66.88	
Max. Dev. Stress, psi	51.58	116.5	133.8	
Strain at Failure, %	5.78	2.86	3.89	
Strain Rate, %/min	1	1	1	
Estimated Specific Gravity	2.7	2.7	2.7	
Liquid Limit	---	---	---	
Plastic Limit	---	---	---	
Plasticity Index	---	---	---	

MACTEC

Project: Vogtle COL

Location: B-3005 UD-1

Project No.: 6141060286

Boring No.: B-3005

Sample Type: Undisturbed

Description: CLAY, silty (CL-ML) (Visual)

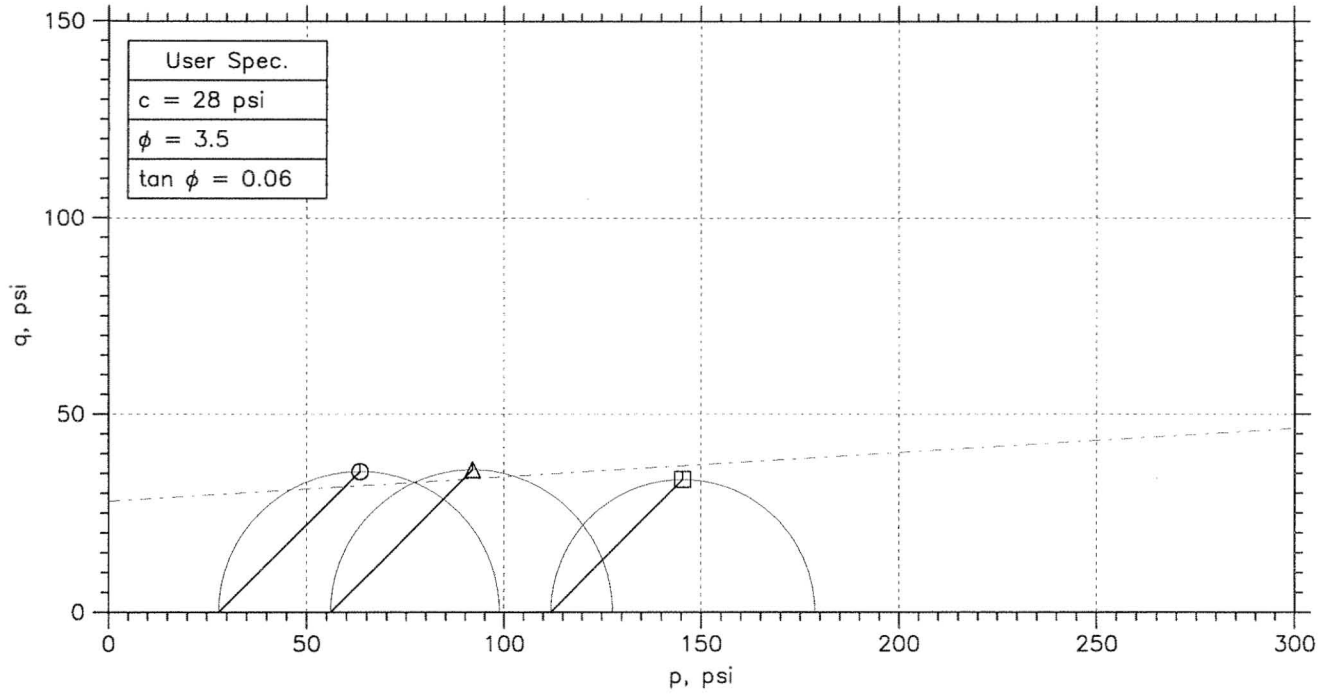
Remarks:

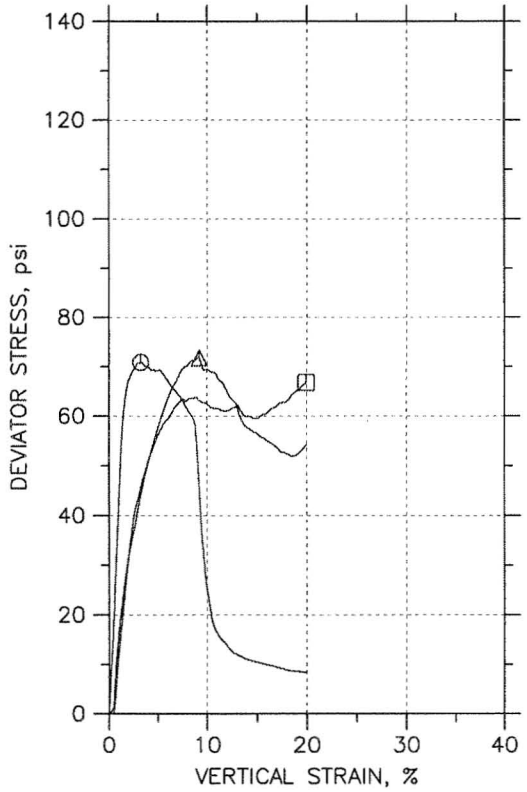
HJ 7/31/07

Phase calculations based on start and end of test.

Tue, 31-JUL-2007 09:51:18

UNCONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D2850





Symbol	⦶	△	⊡	
Sample No.	UD-3	UD-3	UD-3	
Test No.	7511.1	7511.2	7511.3	
Depth	118.00'	118.00'	118.00'	
Tested by	BM	BM	BM	
Test Date	6/08/07	6/08/07	6/08/07	
Checked by	HJ	HJ	HJ	
Check Date	7/30/07	7/30/07	7/30/07	
Diameter, in	2.879	2.877	2.86	
Height, in	6	6	6	
Water Content, %	42.4	38.4	27.6	
Dry Density, pcf	77.5	80.99	95.19	
Saturation, %	97.4	95.9	96.7	
Void Ratio	1.17	1.08	0.771	
Confining Stress, psi	28	56	112	
Undrained Strength, psi	35.41	35.86	33.36	
Max. Dev. Stress, psi	70.81	71.73	66.72	
Strain at Failure, %	3.25	9.23	19.9	
Strain Rate, %/min	1	1	1	
Estimated Specific Gravity	2.7	2.7	2.7	
Liquid Limit	---	---	---	
Plastic Limit	---	---	---	
Plasticity Index	---	---	---	

MACTEC

Project: Vogtle COL

Location: B-3005 UD-3

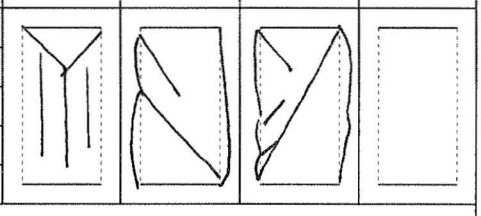
Project No.: 6141060286

Boring No.: B-3005

Sample Type: Undisturbed

Description: CLAY, silty (CL-ML) (Visual)

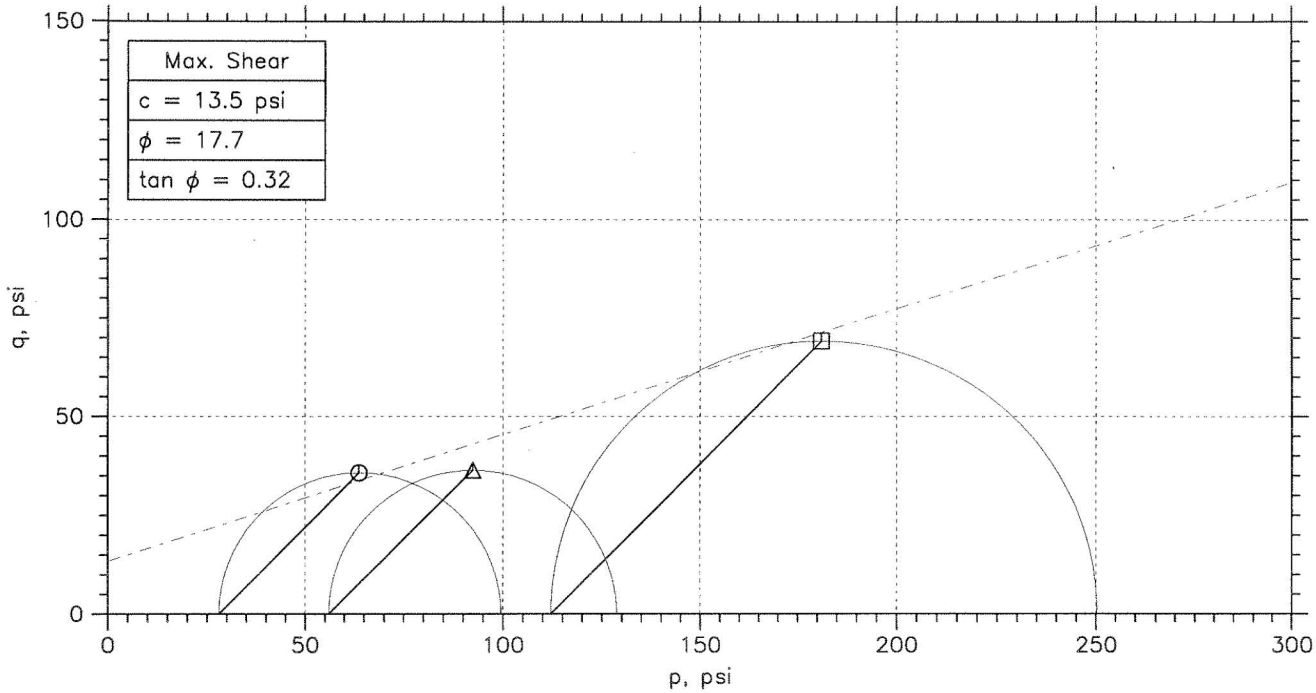
Remarks:

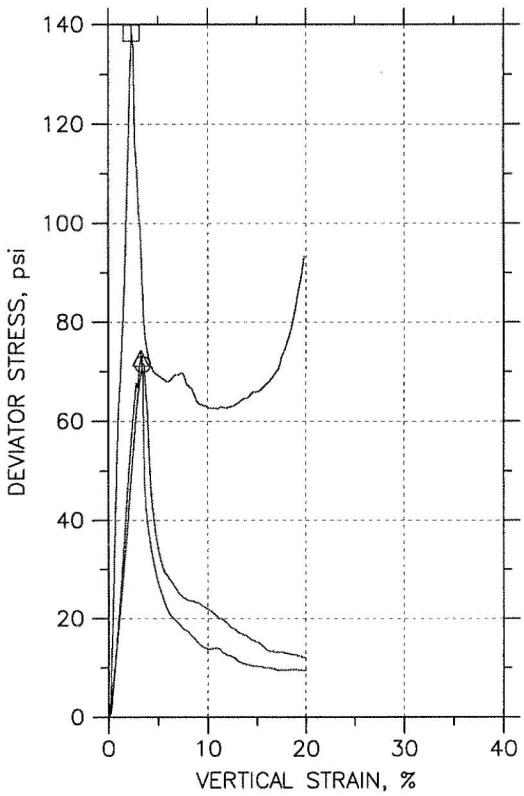


Phase calculations based on start and end of test.

Mon, 30-JUL-2007 09:21:46

UNCONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D2850





Symbol	⏀	△	⊡	
Sample No.	UD-1	UD-1	UD-1	
Test No.	7513.1	7513.2	7513.3	
Depth	103.50'	103.50'	103.50'	
Tested by	BM	BM	BM	
Test Date	6/11/07	6/11/07	6/11/07	
Checked by	HJ	HJ	HJ	
Check Date	7/30/07	7/30/07	7/30/07	
Diameter, in	2.852	2.848	2.82	
Height, in	6	5.999	5.998	
Water Content, %	6.0	43.3	41.3	
Dry Density, pcf	103.4	76.39	78.73	
Saturation, %	25.6	97.0	97.8	
Void Ratio	0.631	1.21	1.14	
Confining Stress, psi	28	56	112	
Undrained Strength, psi	35.74	36.35	69.12	
Max. Dev. Stress, psi	71.48	72.69	138.2	
Strain at Failure, %	3.43	3.26	2.32	
Strain Rate, %/min	1	1	1	
Estimated Specific Gravity	2.7	2.7	2.7	
Liquid Limit	---	---	---	
Plastic Limit	---	---	---	
Plasticity Index	---	---	---	

MACTEC

Project: Vogtle COL

Location: B-3010 UD-1

Project No.: 6141060286

Boring No.: B-3010

Sample Type: Undisturbed

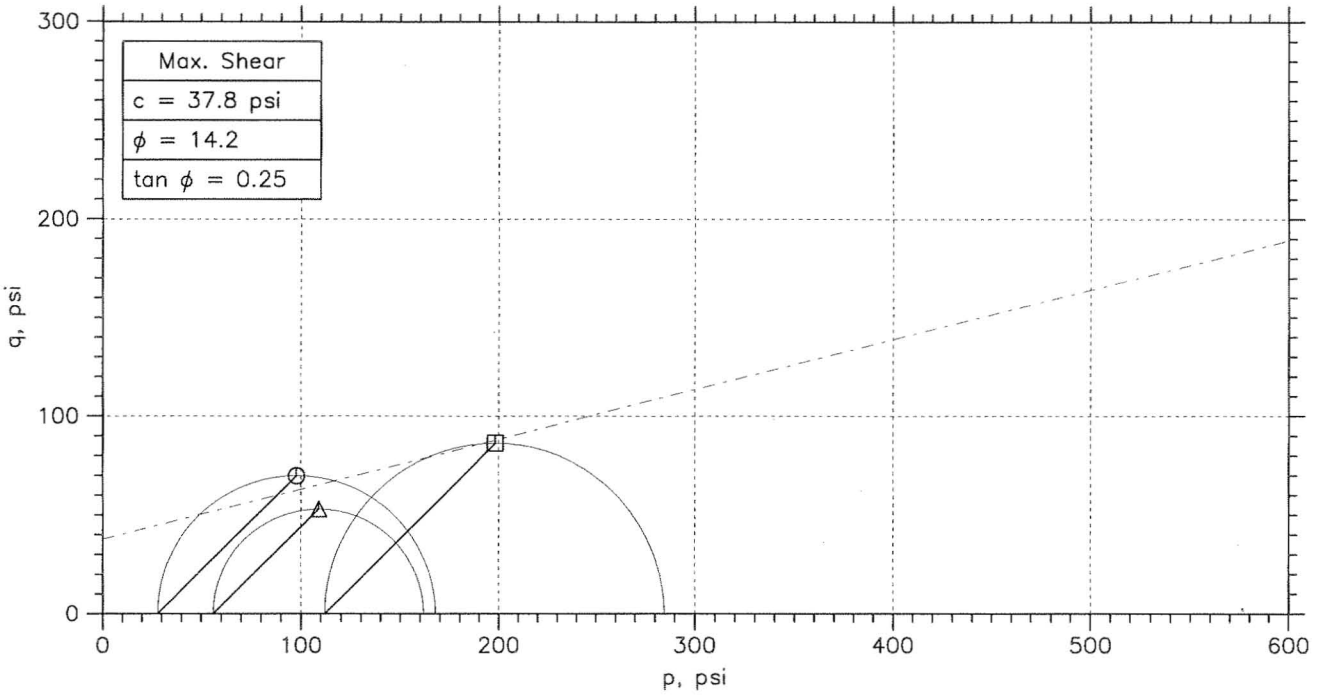
Description: CLAY, with gravel (CL) (Visual)

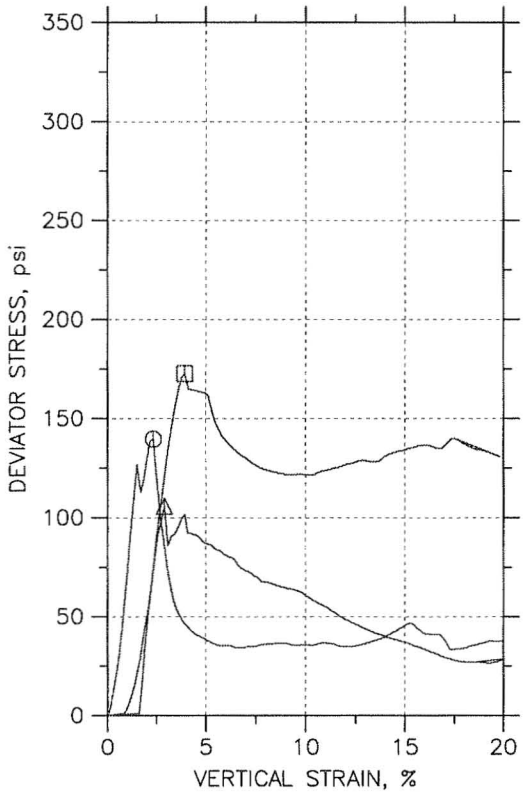
Remarks:

Phase calculations based on start and end of test.

Mon, 30-JUL-2007 09:38:41

UNCONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D2850





Symbol	⏲	△	⊡	
Sample No.	UD-2	UD-2	UD-2	
Test No.	7516.1	7516.2	7516.3	
Depth	101.00'	101.00'	101.00'	
Tested by	BM	BM	BM	
Test Date	6/11/07	6/11/2007	6/11/07	
Checked by	HJ	HJ	HJ	
Check Date	7/31/07	7/31/07	7/31/07	
Diameter, in	2.844	2.858	2.843	
Height, in	5.989	6.004	5.997	
Water Content, %	10.6	40.2	26.9	
Dry Density, pcf	100.2	77.17	84.49	
Saturation, %	42.0	91.6	73.0	
Void Ratio	0.683	1.18	0.995	
Confining Stress, psi	28	56	112	
Undrained Strength, psi	69.8	52.85	86.28	
Max. Dev. Stress, psi	139.6	105.7	172.6	
Strain at Failure, %	2.34	2.89	3.92	
Strain Rate, %/min	1	1	1	
Estimated Specific Gravity	2.7	2.7	2.7	
Liquid Limit	---	---	---	
Plastic Limit	---	---	---	
Plasticity Index	---	---	---	

MACTEC

Project: Vogtle COL

Location: B-3013 UD-2

Project No.: 6141060286

Boring No.: B-3013

Sample Type: Undisturbed

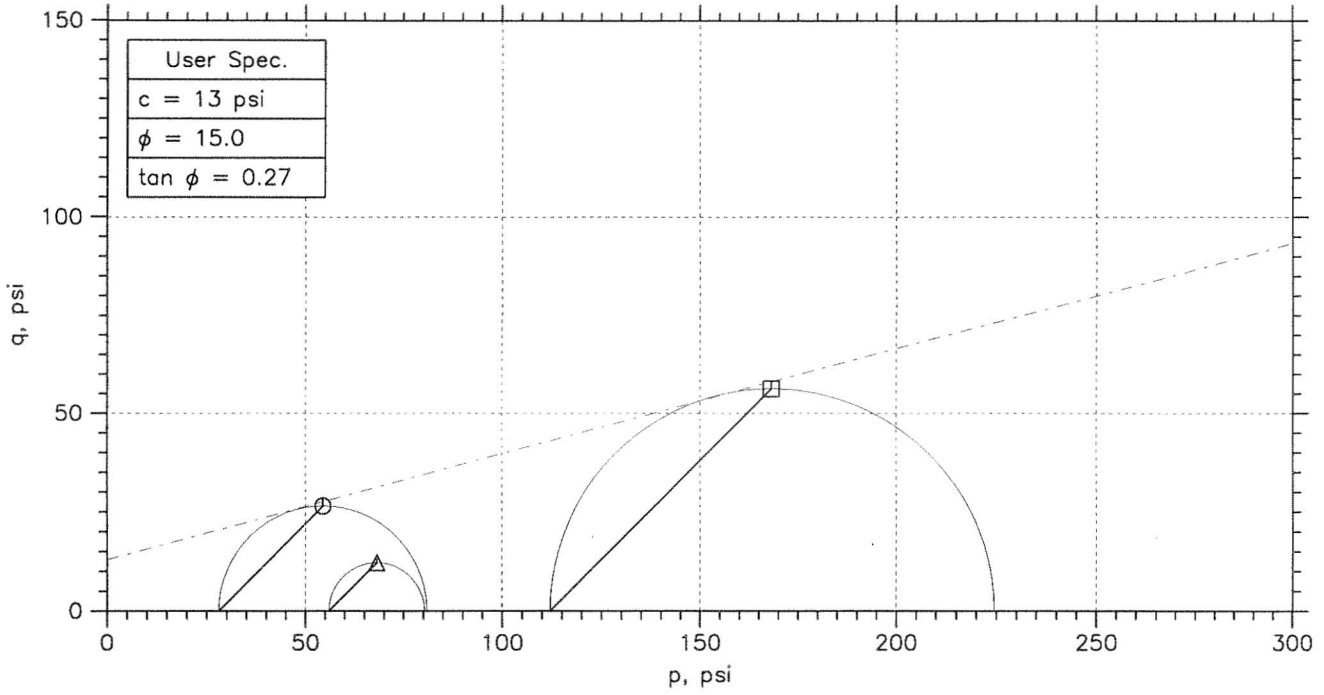
Description: CLAY, silty (CL-ML) (Visual)

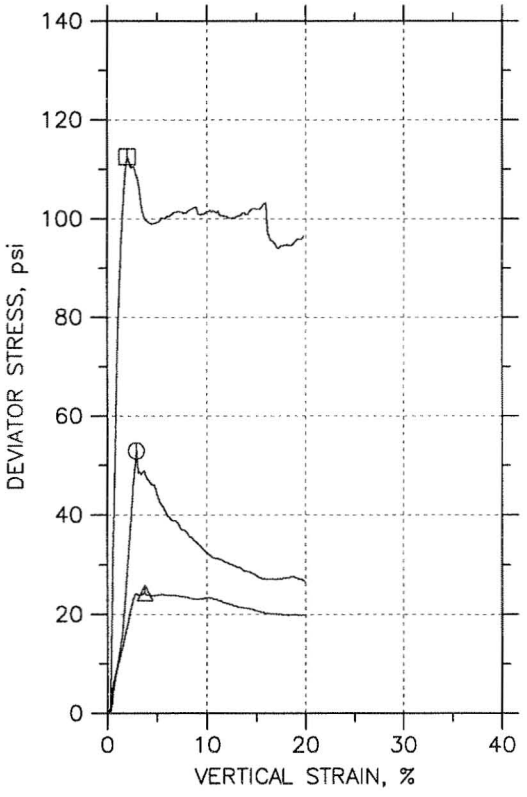
Remarks:

HJ 7/31/07

Phase calculations based on start and end of test.

UNCONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D2850





Symbol	⊙	△	⊡	
Sample No.	UD-4	UD-4	UD-4	
Test No.	7518.1	7518.2	7518.3	
Depth	121.00'	121.00'	121.00'	
Tested by	BM	BM	BM	
Test Date	6/11/07	6/11/07	6/11/07	
Checked by	HJ	HJ	HJ	
Check Date	7/30/07	7/30/07	7/30/07	
Diameter, in	2.866	2.824	2.818	
Height, in	6.007	6.007	5.999	
Water Content, %	41.5	28.9	23.8	
Dry Density, pcf	86.56	92.43	99.06	
Saturation, %	118.4	94.9	91.4	
Void Ratio	0.947	0.824	0.702	
Confining Stress, psi	28	56	112	
Undrained Strength, psi	26.45	12.15	56.24	
Max. Dev. Stress, psi	52.9	24.29	112.5	
Strain at Failure, %	2.91	3.79	2.01	
Strain Rate, %/min	1	1	1	
Estimated Specific Gravity	2.7	2.7	2.7	
Liquid Limit	---	---	---	
Plastic Limit	---	---	---	
Plasticity Index	---	---	---	

MACTEC

Project: Vogtle COL

Location: B-3013 UD-4

Project No.: 6141060286

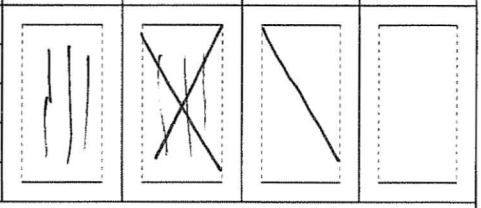
Boring No.: B-3013

Sample Type: Undisturbed

Description: CLAY, silty (CL-ML) (Visual)

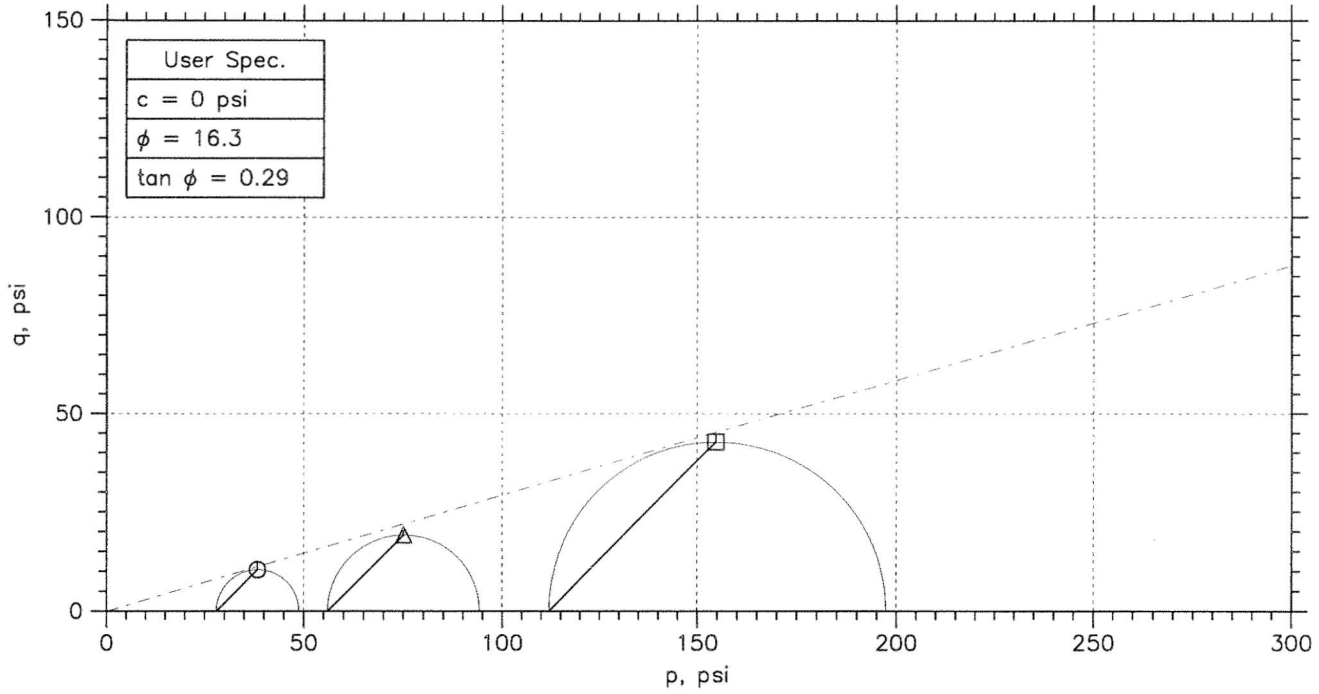
Remarks:

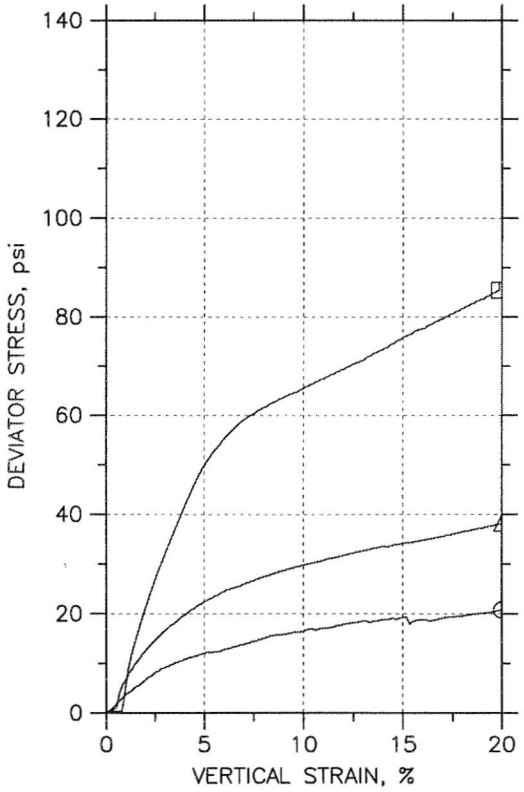
Phase calculations based on start and end of test.



Mon, 30-JUL-2007 10:12:20

UNCONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D2850





Symbol	⦶	△	⊡	
Sample No.	UD-2	UD-2	UD-2	
Test No.	7523.1	7523.2	7523.3	
Depth	113.50'	113.50'	113.50'	
Tested by	BM	BM	BM	
Test Date	6/13/07	6/13/2007	6/13/07	
Checked by	HJ	HJ	HJ	
Check Date	7/30/07	7/30/07	7/30/07	
Diameter, in	2.85	2.863	2.855	
Height, in	5.908	5.982	5.992	
Water Content, %	21.7	24.1	24.5	
Dry Density, pcf	102.1	99.63	98.99	
Saturation, %	90.1	94.2	94.3	
Void Ratio	0.651	0.692	0.703	
Confining Stress, psi	28	56	112	
Undrained Strength, psi	10.38	19.09	42.67	
Max. Dev. Stress, psi	20.76	38.19	85.34	
Strain at Failure, %	20	20	19.9	
Strain Rate, %/min	1	1	1	
Estimated Specific Gravity	2.7	2.7	2.7	
Liquid Limit	---	---	---	
Plastic Limit	---	---	---	
Plasticity Index	---	---	---	

MACTEC

Project: Vogtle COL

Location: B-3017 UD-2

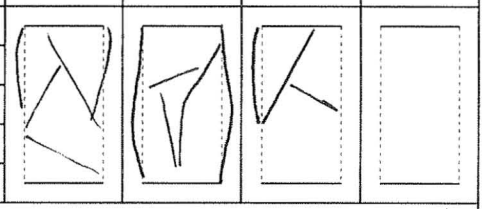
Project No.: 6141060286

Boring No.: B-3017

Sample Type: Undisturbed

Description: CLAY (CL) (Visual)

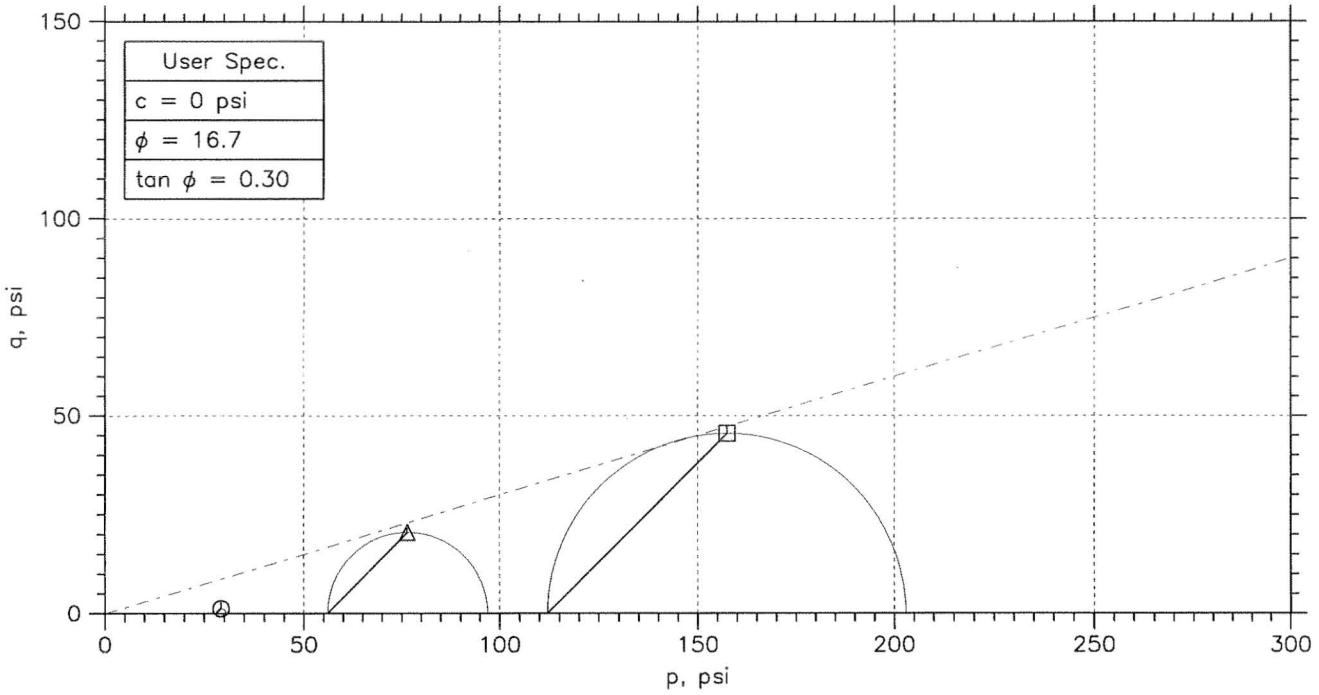
Remarks:

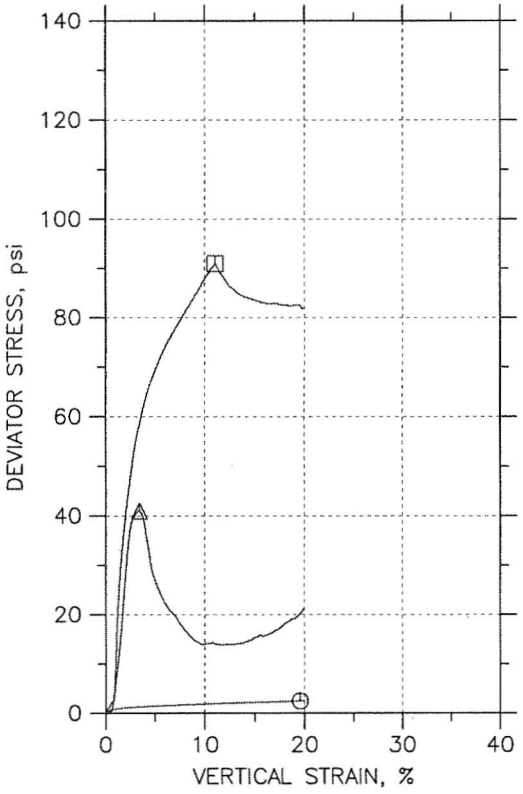


Phase calculations based on start and end of test.

Mon, 30-JUL-2007 10:44:28

UNCONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D2850





Symbol	⏲	△	⊡	
Sample No.	UD-1	UD-1	UD-1	
Test No.	7527.1	7527.2	7527.3	
Depth	95.5'	93.5'	93.50'	
Tested by	BM	BM	BM	
Test Date	06/12/07	06/12/07	06/12/07	
Checked by	HJ	HJ	HJ	
Check Date	7/31/07	7/31/07	7/31/07	
Diameter, in	2.808	2.854	2.785	
Height, in	5.993	6.001	5.594	
Water Content, %	55.1	43.4	43.8	
Dry Density, pcf	68.42	75.15	75.16	
Saturation, %	101.6	94.2	95.1	
Void Ratio	1.46	1.24	1.24	
Confining Stress, psi	28	56	112	
Undrained Strength, psi	1.219	20.49	45.45	
Max. Dev. Stress, psi	2.438	40.98	90.91	
Strain at Failure, %	19.6	3.42	11.1	
Strain Rate, %/min	1	1	1	
Estimated Specific Gravity	2.7	2.7	2.7	
Liquid Limit	---	---	---	
Plastic Limit	---	---	---	
Plasticity Index	---	---	---	

MACTEC

Project: Vogtle COL

Location: B-3019 UD-1

Project No.: 6141060286

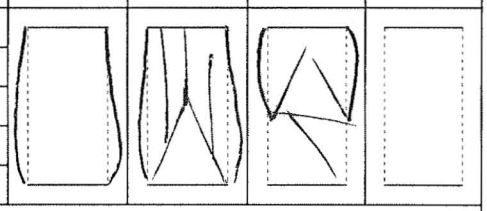
Boring No.: B-3019

Sample Type: Undisturbed

Description: SILT (ML) (Visual)

Remarks:

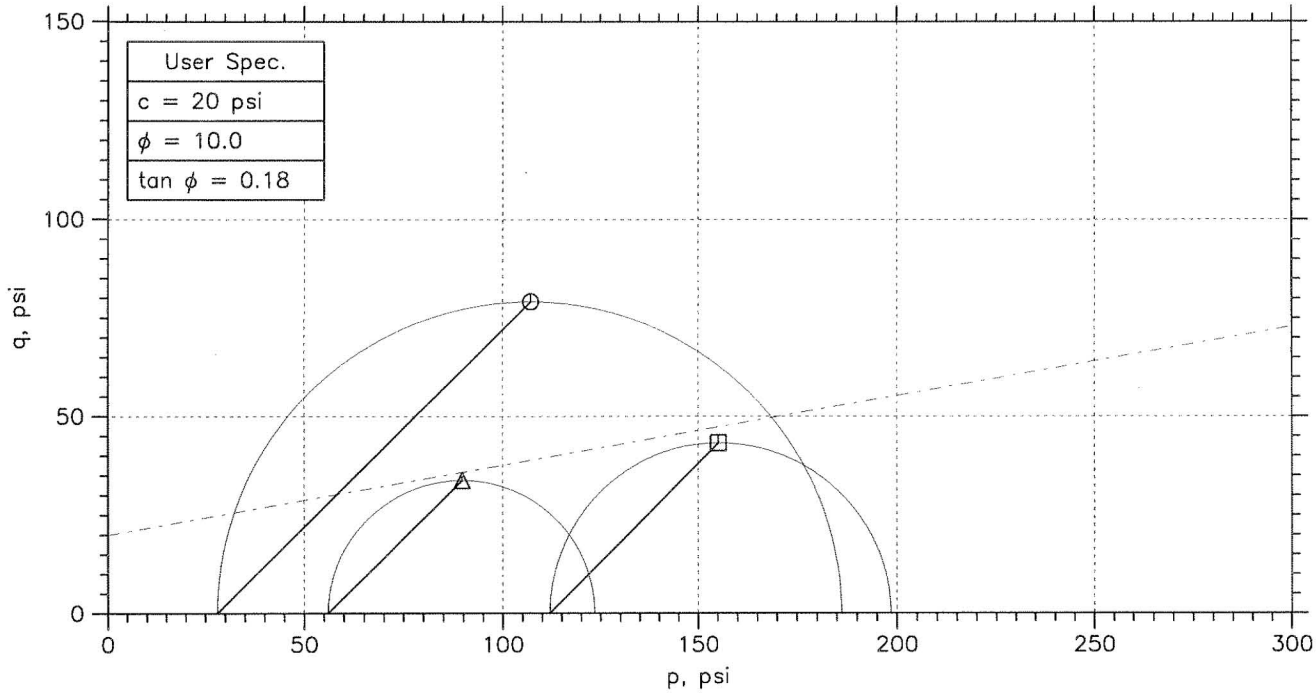
HJ 7/31/07

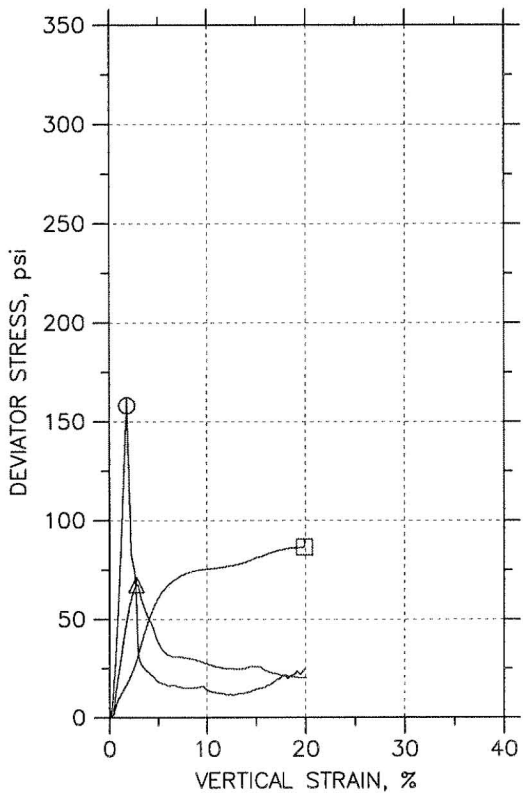


Phase calculations based on start and end of test.

Tue, 31-JUL-2007 09:52:53

UNCONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D2850





Symbol	⦶	△	⊡	
Sample No.	UD-2	UD-2	UD-2	
Test No.	7531.1	7531.2	7531.3	
Depth	133.50'	133.50'	133.50'	
Tested by	BM	BM	BM	
Test Date	6/11/07	6/11/07	6/11/07	
Checked by	HJ	HJ	HJ	
Check Date	7/30/07	7/30/07	7/30/07	
Diameter, in	2.865	2.833	2.841	
Height, in	5.994	6.007	5.982	
Water Content, %	52.9	28.9	29.2	
Dry Density, pcf	80.08	91.55	92.97	
Saturation, %	129.2	92.9	97.1	
Void Ratio	1.1	0.841	0.813	
Confining Stress, psi	28	56	112	
Undrained Strength, psi	79.1	33.73	43.23	
Max. Dev. Stress, psi	158.2	67.46	86.47	
Strain at Failure, %	1.81	2.75	19.9	
Strain Rate, %/min	1	1	1	
Estimated Specific Gravity	2.7	2.7	2.7	
Liquid Limit	---	---	---	
Plastic Limit	---	---	---	
Plasticity Index	---	---	---	

MACTEC

Project: Vogtle COL

Location: B-3020 UD-2

Project No.: 6141060286

Boring No.: B-3020

Sample Type: Undisturbed

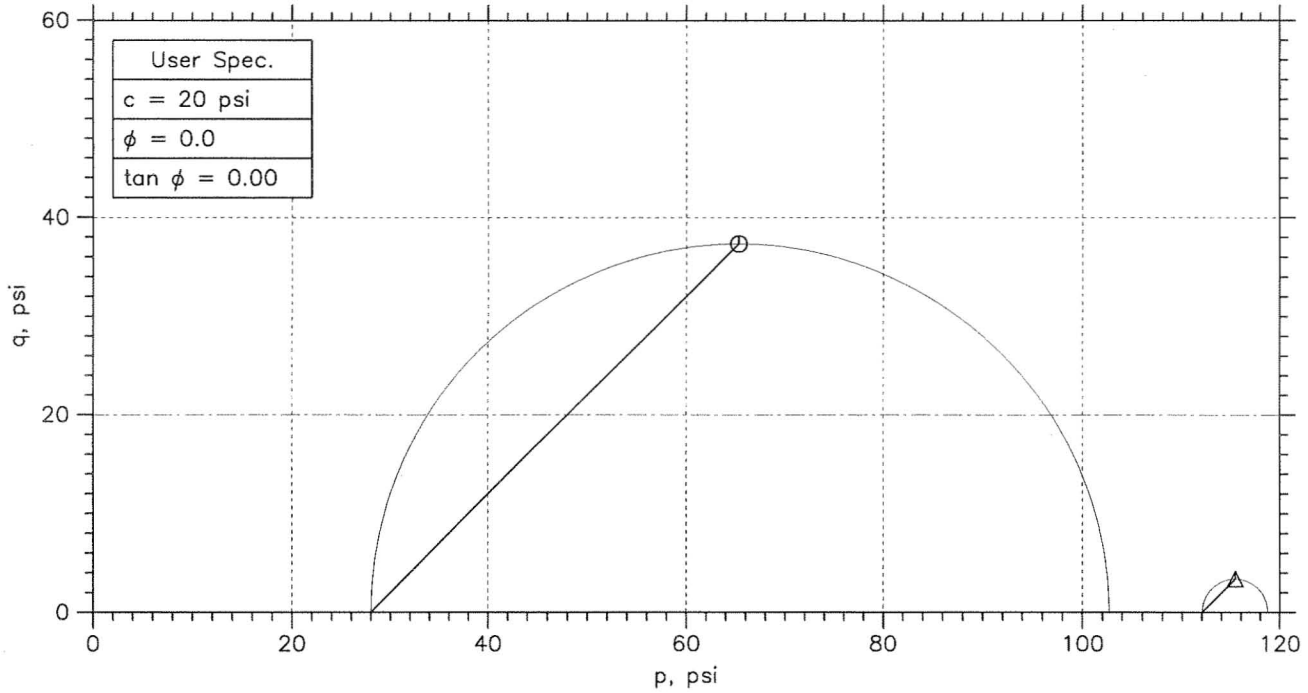
Description: CLAY, silty (CL-ML) (Visual)

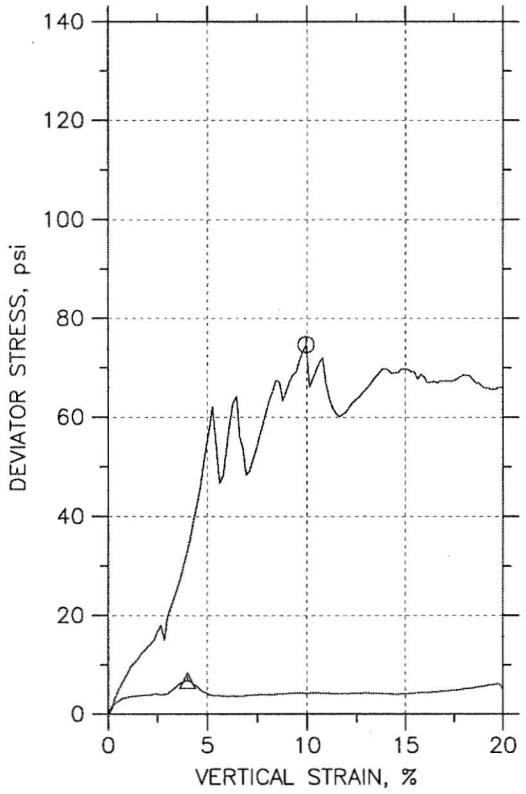
Remarks:

Phase calculations based on start and end of test.

Mon, 30-JUL-2007 10:24:42

UNCONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D2850





Symbol	⦶	△		
Sample No.	UD-3	UD-3		
Test No.	7537.1	7537.3		
Depth	113.00'	113.00'		
Tested by	BM	BM		
Test Date	07/11/07	07/11/07		
Checked by	HJ	HJ		
Check Date	7/31/07	7/31/07		
Diameter, in	2.813	2.86		
Height, in	5.616	6.073		
Water Content, %	38.8	25.6		
Dry Density, pcf	80.42	94.52		
Saturation, %	95.7	88.1		
Void Ratio	1.1	0.783		
Confining Stress, psi	28	112		
Undrained Strength, psi	37.32	3.375		
Max. Dev. Stress, psi	74.64	6.749		
Strain at Failure, %	9.95	3.99		
Strain Rate, %/min	1	1		
Estimated Specific Gravity	2.7	2.7		
Liquid Limit	---	---		
Plastic Limit	---	---		
Plasticity Index	---	---		

MACTEC

Project: Vogtle COL

Location: B-3023 UD-3

Project No.: 6141060286

Boring No.: B-3023

Sample Type: Undisturbed

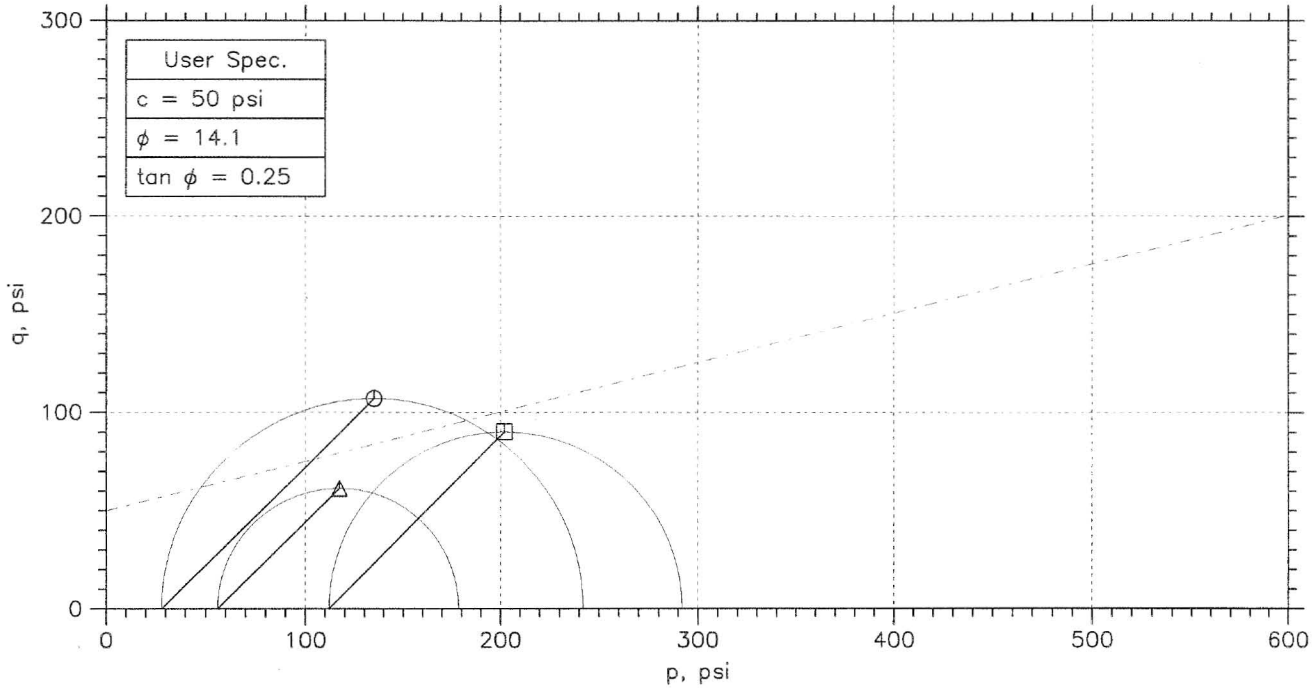
Description: CLAY (CL) (Visual)

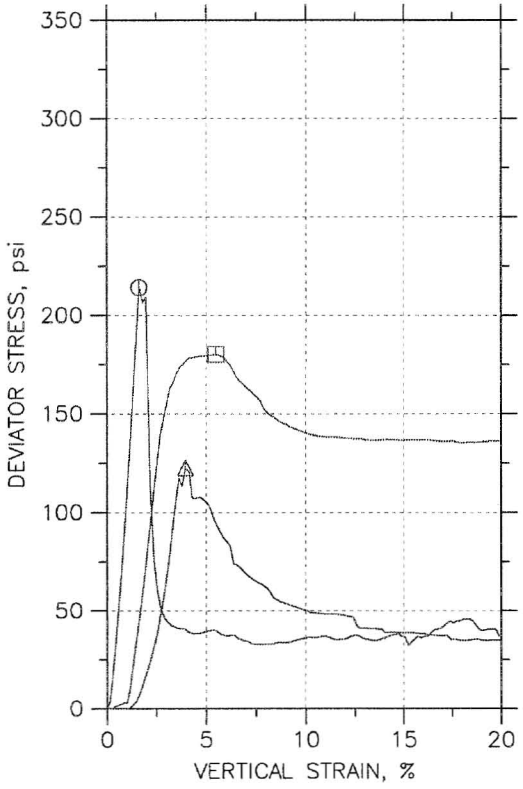
Remarks: HD 7/31/07

Phase calculations based on start and end of test.

Tue, 31-JUL-2007 09:42:40

UNCONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D2850





Symbol	⏲	△	⊡	
Sample No.	UD-1	UD-1	UD-1	
Test No.	7539.1	7539.2	7539.3	
Depth	97.00'	97.00'	97.00'	
Tested by	BM	BM	BM	
Test Date	06/12/07	06/12/07	06/12/07	
Checked by	HJ	HJ	HJ	
Check Date				
Diameter, in	2.856	2.853	2.854	
Height, in	6	5.99	5.997	
Water Content, %	40.0	40.1	36.7	
Dry Density, pcf	80.	76.73	80.79	
Saturation, %	97.5	90.5	91.1	
Void Ratio	1.11	1.2	1.09	
Confining Stress, psi	28	56	112	
Undrained Strength, psi	107	61.27	90.02	
Max. Dev. Stress, psi	214	122.5	180	
Strain at Failure, %	1.63	3.97	5.5	
Strain Rate, %/min	1	1	1	
Estimated Specific Gravity	2.7	2.7	2.7	
Liquid Limit	---	---	---	
Plastic Limit	---	---	---	
Plasticity Index	---	---	---	

MACTEC

Project: Vogtle COL

Location: B-3024 UD-1

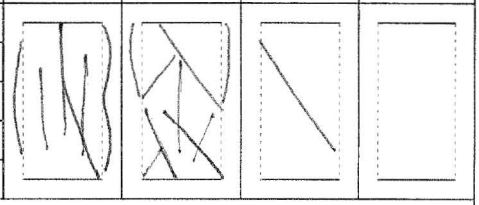
Project No.: 6141060286

Boring No.: B-3024

Sample Type: Undisturbed

Description: CLAY (CH)

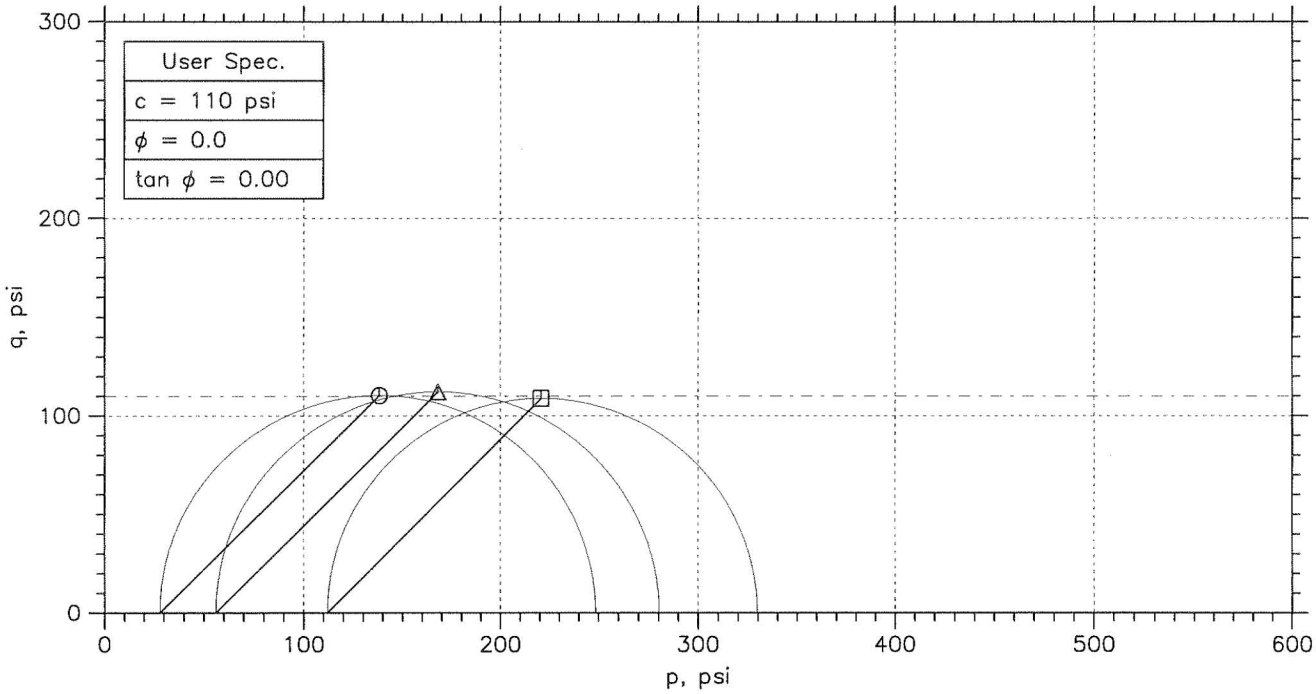
Remarks:

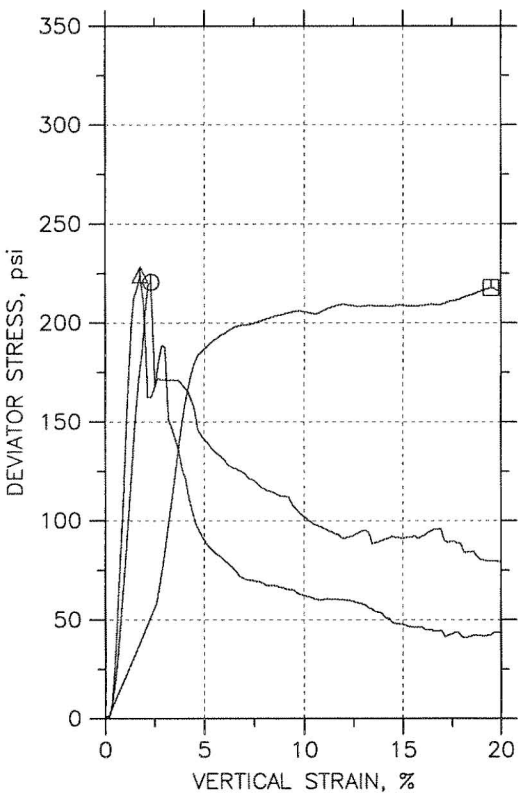


Phase calculations based on start and end of test.

Thu, 27-SEP-2007 15:11:30

UNCONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D2850





Symbol	⏲	△	⊡	
Sample No.	UD-4	UD-4	UD-4	
Test No.	7602.1	7602.2	7602.3	
Depth	118.50'	118.50'	118.50'	
Tested by	BM	BM	BM	
Test Date	6/27/07	6/27/07	6/27/07	
Checked by	HJ	HJ	HJ	
Check Date	7/31/07	7/31/07	7/31/07	
Diameter, in	2.836	2.841	2.844	
Height, in	5.992	5.988	5.993	
Water Content, %	32.8	27.2	28.3	
Dry Density, pcf	87.47	95.	90.91	
Saturation, %	95.6	94.9	89.3	
Void Ratio	0.927	0.774	0.854	
Confining Stress, psi	28	56	112	
Undrained Strength, psi	110.3	112.2	108.8	
Max. Dev. Stress, psi	220.6	224.3	217.6	
Strain at Failure, %	2.33	1.78	19.5	
Strain Rate, %/min	1	1	1	
Estimated Specific Gravity	2.7	2.7	2.7	
Liquid Limit	68	68	68	
Plastic Limit	36	36	36	
Plasticity Index	32	32	32	

MACTEC

Project: Vogtle COL

Location: B-3034 UD-4

Project No.: 6141060286

Boring No.: B-3034

Sample Type: Undisturbed

Description: SILT, sandy (MH)

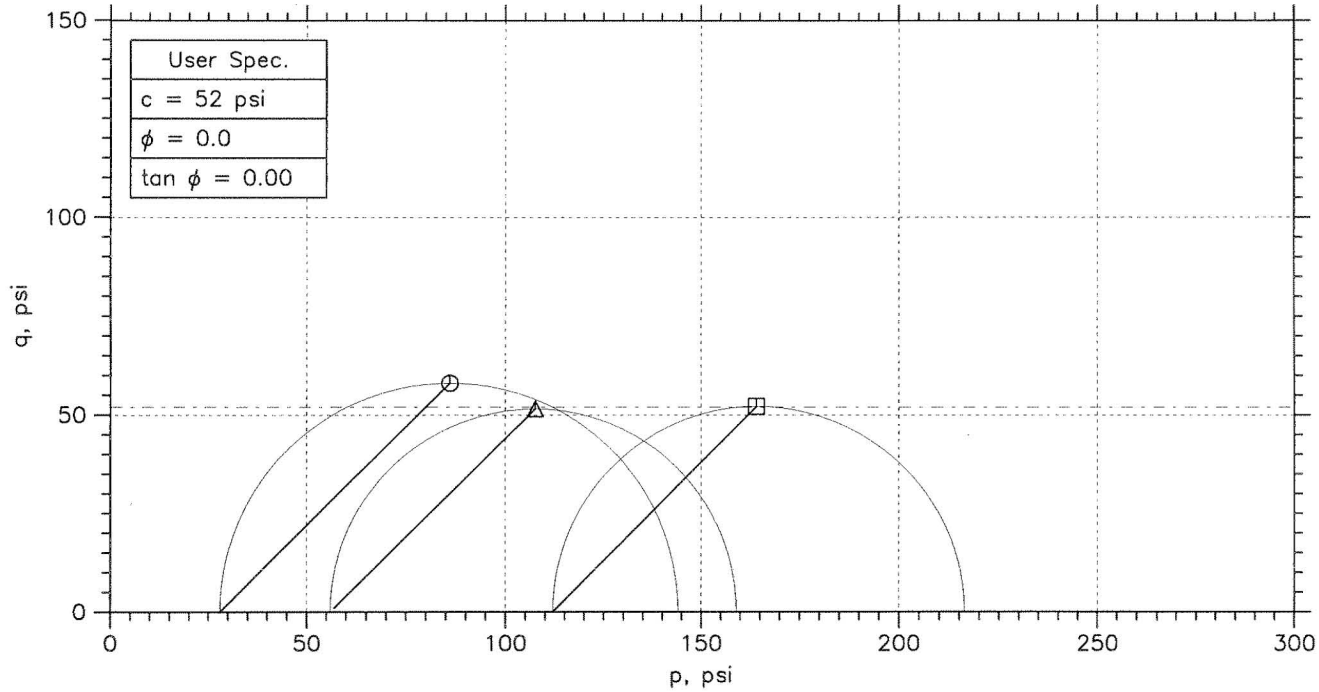
Remarks:

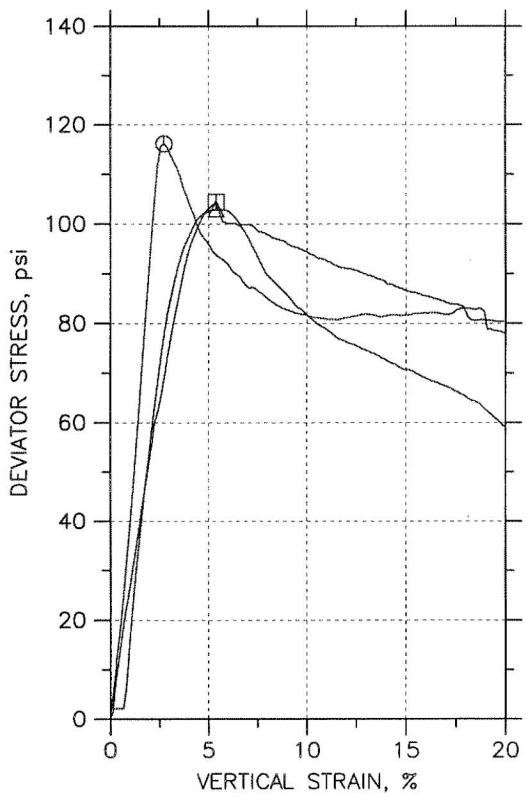
HJ 7/31/07

Phase calculations based on start and end of test.

Tue, 31-JUL-2007 10:28:44

UNCONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D2850





Symbol	⏲	△	⊡	
Sample No.	UD-2	UD-2	UD-2	
Test No.	7547.1	7547.2	7547.3	
Depth	103.5'	103.5'	103.50'	
Tested by	BM	BM	BM	
Test Date	7/11/07	7/11/07	7/11/07	
Checked by	HJ	HJ	HJ	
Check Date	7/30/07	7/30/07	7/30/07	
Diameter, in	2.841	2.854	2.838	
Height, in	5.603	5.597	5.6	
Water Content, %	30.1	25.9	26.3	
Dry Density, pcf	84.1	88.41	86.14	
Saturation, %	80.8	77.1	74.1	
Void Ratio	1	0.906	0.957	
Confining Stress, psi	28	56	112	
Undrained Strength, psi	58.05	51.51	52.16	
Max. Dev. Stress, psi	116.1	103	104.3	
Strain at Failure, %	2.74	5.39	5.41	
Strain Rate, %/min	1	1	1	
Estimated Specific Gravity	2.7	2.7	2.7	
Liquid Limit	---	---	---	
Plastic Limit	---	---	---	
Plasticity Index	---	---	---	

MACTEC

Project: Vogtle COL

Location: B-3035 UD-2

Project No.: 6141060286

Boring No.: B-3035

Sample Type: Undisturbed

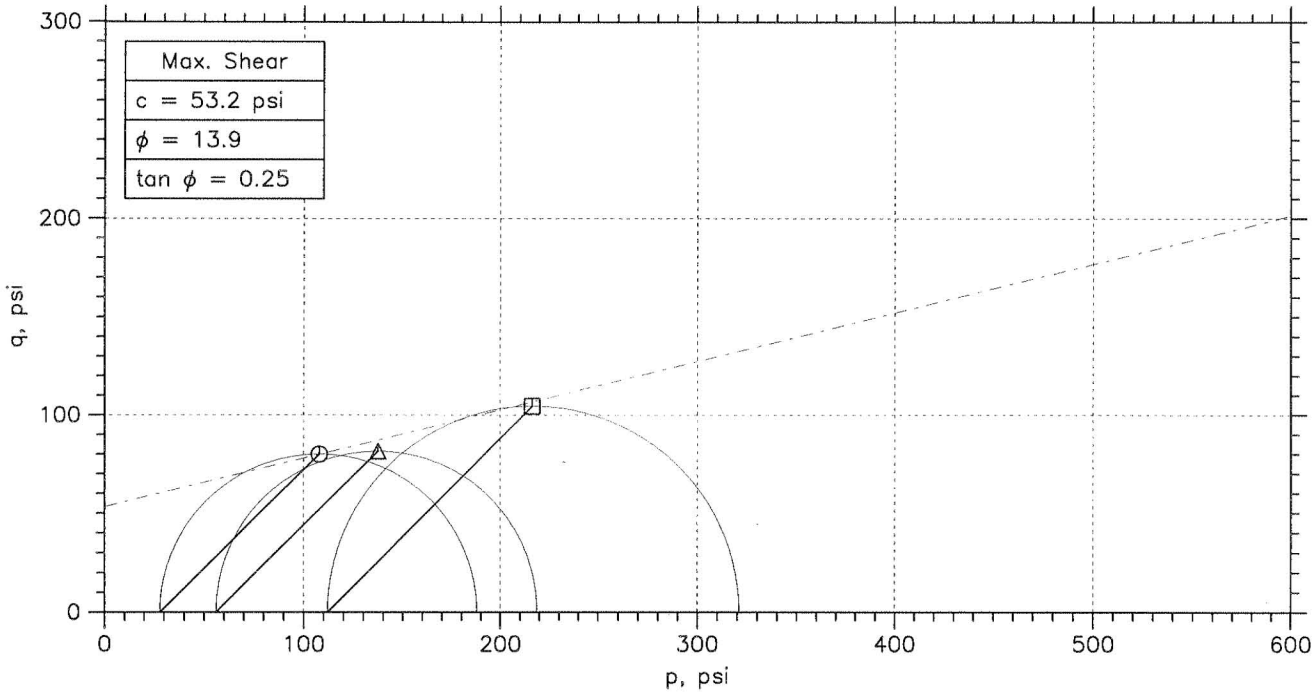
Description: CLAY, silty (CL-ML) (Visual)

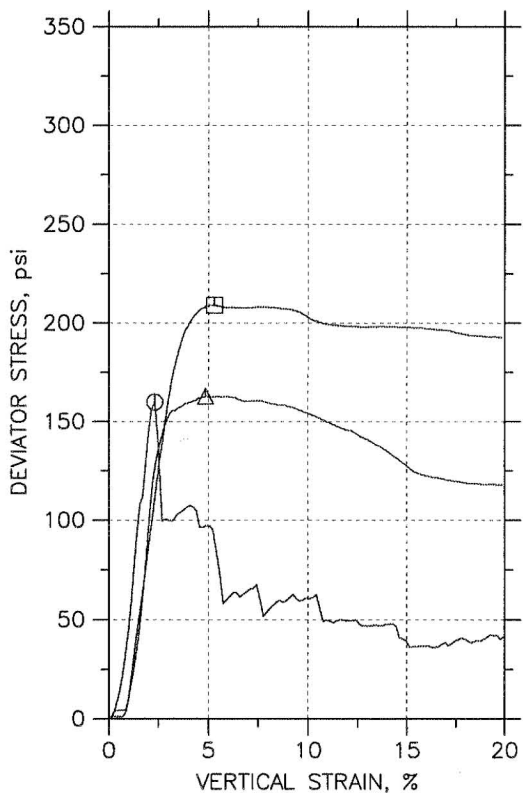
Remarks:

Phase calculations based on start and end of test.

Mon, 30-JUL-2007 10:42:41

UNCONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D2850





Symbol	⦶	△	⊡	
Sample No.	UD-2	UD-2	UD-2	
Test No.	7576.1	7576.2	7576.3	
Depth	148.00'	148.00'	148.00'	
Tested by	BM	BM	BM	
Test Date	06/29/07	06/29/07	6/29/2007	
Checked by	HJ	HJ	HJ	
Check Date	7/30/07	7/30/07	7/30/07	
Diameter, in	2.838	2.81	2.84	
Height, in	5.607	5.594	5.598	
Water Content, %	28.7	27.3	30.4	
Dry Density, pcf	93.05	95.89	92.6	
Saturation, %	95.5	97.2	100.0	
Void Ratio	0.811	0.758	0.82	
Confining Stress, psi	28	56	112	
Undrained Strength, psi	79.9	81.4	104.5	
Max. Dev. Stress, psi	159.8	162.8	208.9	
Strain at Failure, %	2.32	4.85	5.32	
Strain Rate, %/min	1	1	1	
Estimated Specific Gravity	2.7	2.7	2.7	
Liquid Limit	---	---	---	
Plastic Limit	---	---	---	
Plasticity Index	---	---	---	

MACTEC

Project: Vogtle COL

Location: B-4009 UD-2

Project No.: 6141060286

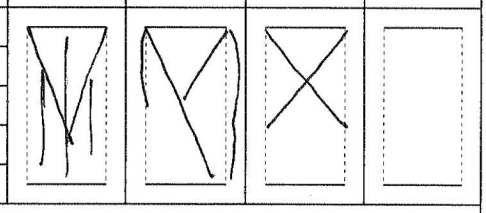
Boring No.: B-4009

Sample Type: Undisturbed

Description: CLAY, silty (CL-ML) (Visual)

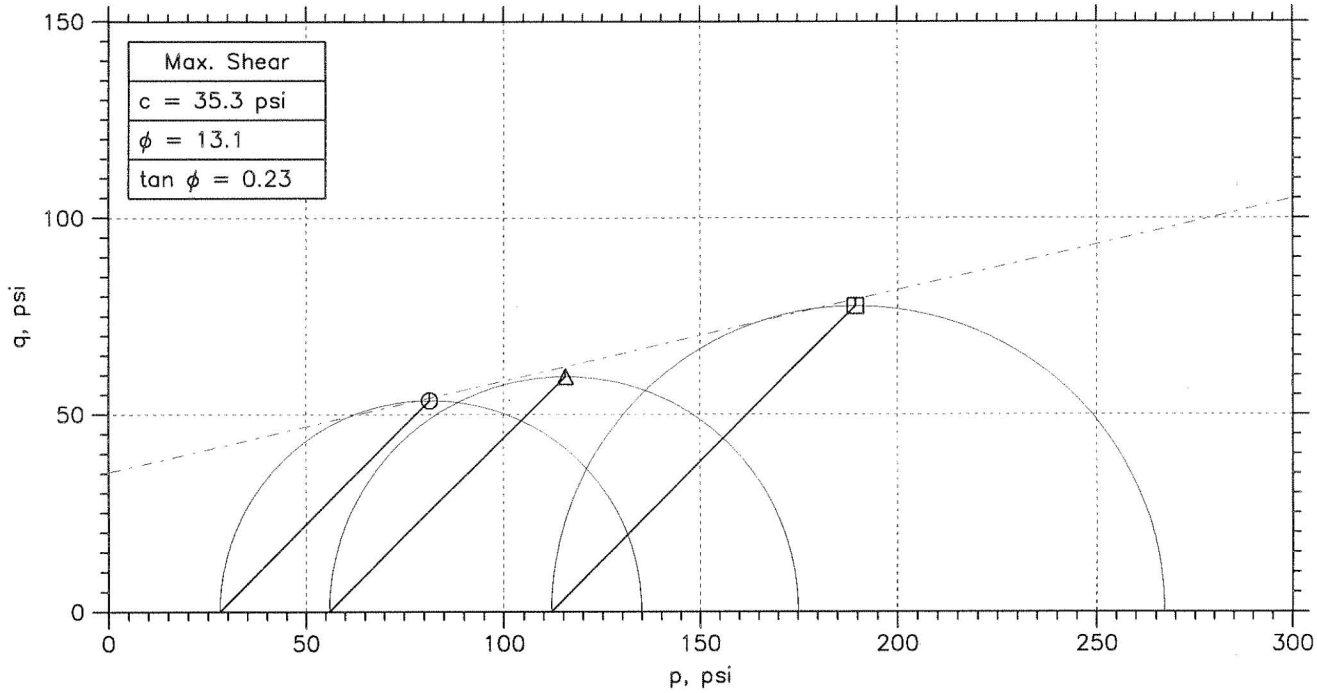
Remarks:

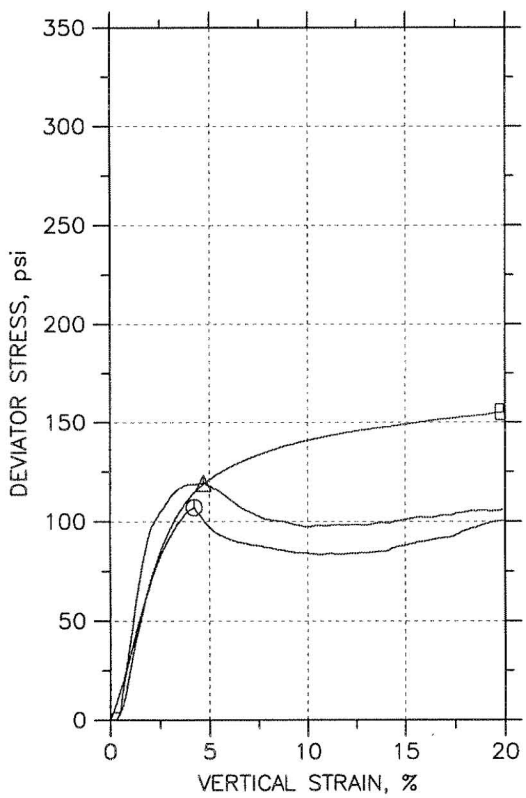
Phase calculations based on start and end of test.



Mon, 30-JUL-2007 10:37:28

UNCONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D2850





Symbol	⏲	△	⊡	
Sample No.	UD-1	UD-1	UD-1	
Test No.	7581.1	7581.2	7581.3	
Depth	93.50'	93.50'	93.50'	
Tested by	BM	BM	BM	
Test Date	7/23/07	7/23/07	7/23/07	
Checked by	HJ	HJ	HJ	
Check Date	7/30/07	7/30/07	7/30/07	
Diameter, in	2.875	2.877	2.871	
Height, in	5.608	5.996	5.992	
Water Content, %	42.5	43.9	44.0	
Dry Density, pcf	74.41	75.12	75.5	
Saturation, %	90.7	95.4	96.3	
Void Ratio	1.27	1.24	1.23	
Confining Stress, psi	28	56	112	
Undrained Strength, psi	53.48	59.55	77.53	
Max. Dev. Stress, psi	107	119.1	155.1	
Strain at Failure, %	4.22	4.69	19.9	
Strain Rate, %/min	1	1	1	
Estimated Specific Gravity	2.7	2.7	2.7	
Liquid Limit	---	---	---	
Plastic Limit	---	---	---	
Plasticity Index	---	---	---	

MACTEC

Project: Vogtle COL

Location: B-4018 UD-1

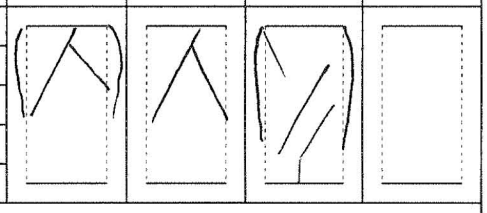
Project No.: 6141060286

Boring No.: B-4018

Sample Type: Undisturbed

Description: CLAY (CL) (Visual)

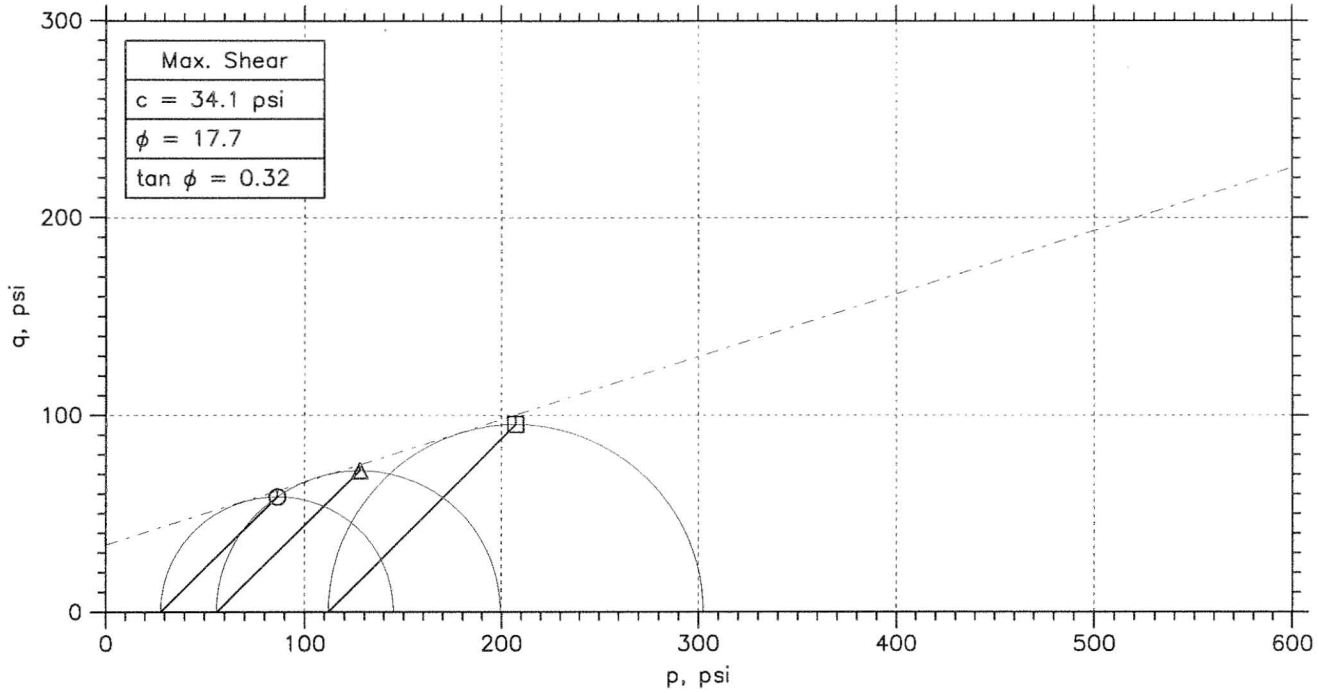
Remarks:

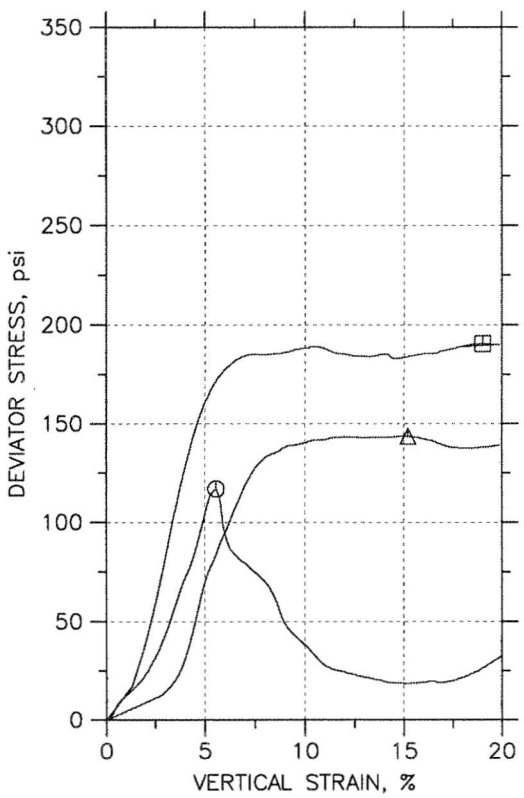


Phase calculations based on start and end of test.

Mon, 30-JUL-2007 10:49:34

UNCONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D2850





Symbol	⊙	△	⊡	
Sample No.	UD-5	UD-5	UD-5	
Test No.	7585.1	7585.2	7585.3	
Depth	138.50'	138.50'	138.50'	
Tested by	BM	BM	BM	
Test Date	6/27/07	6/27/07	6/27/07	
Checked by	HJ	HJ	HJ	
Check Date	7/30/07	7/30/07	7/30/07	
Diameter, in	2.844	2.847	2.862	
Height, in	6.004	5.996	6.019	
Water Content, %	28.9	23.6	24.0	
Dry Density, pcf	91.78	98.6	99.25	
Saturation, %	93.3	90.0	92.7	
Void Ratio	0.836	0.71	0.698	
Confining Stress, psi	28	56	112	
Undrained Strength, psi	58.44	71.74	95.24	
Max. Dev. Stress, psi	116.9	143.5	190.5	
Strain at Failure, %	5.56	15.2	19	
Strain Rate, %/min	1	1	1	
Estimated Specific Gravity	2.7	2.7	2.7	
Liquid Limit	---	---	---	
Plastic Limit	---	---	---	
Plasticity Index	---	---	---	

MACTEC

Project: Vogtle COL

Location: B-4018 UD-5

Project No.: 6141060286

Boring No.: B-4018

Sample Type: Undisturbed

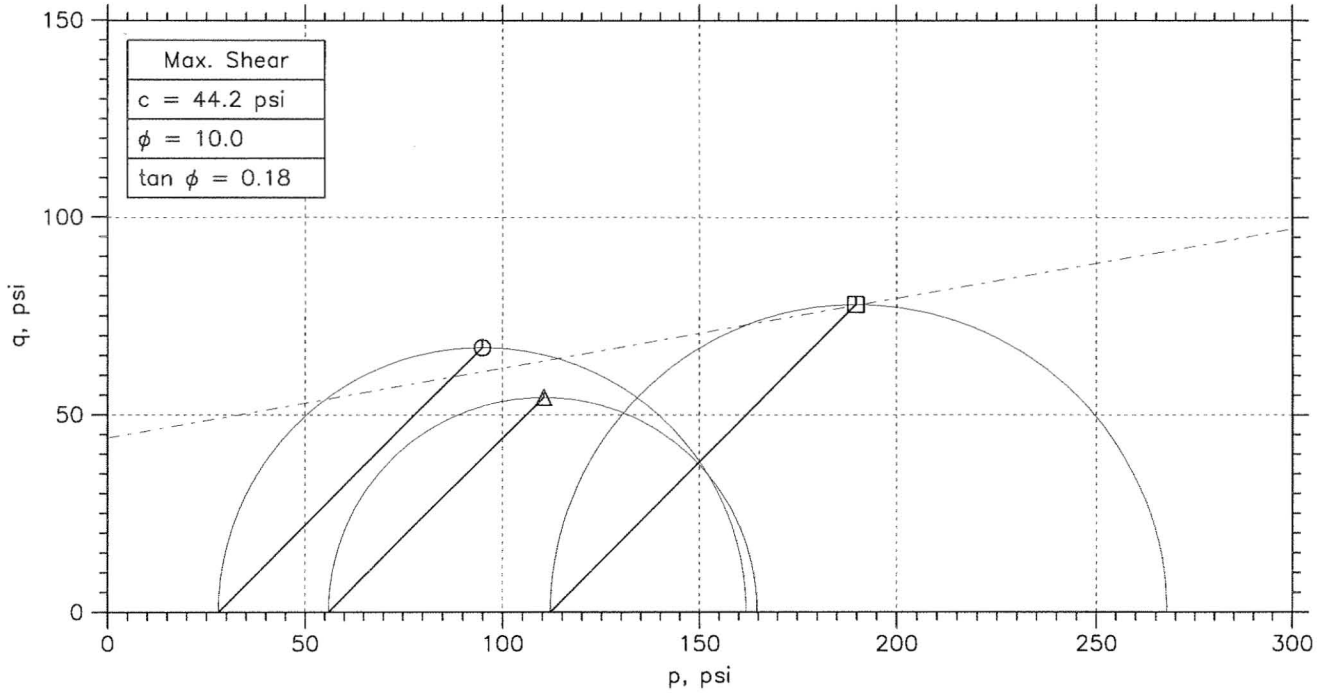
Description: CLAY (CL) (Visual)

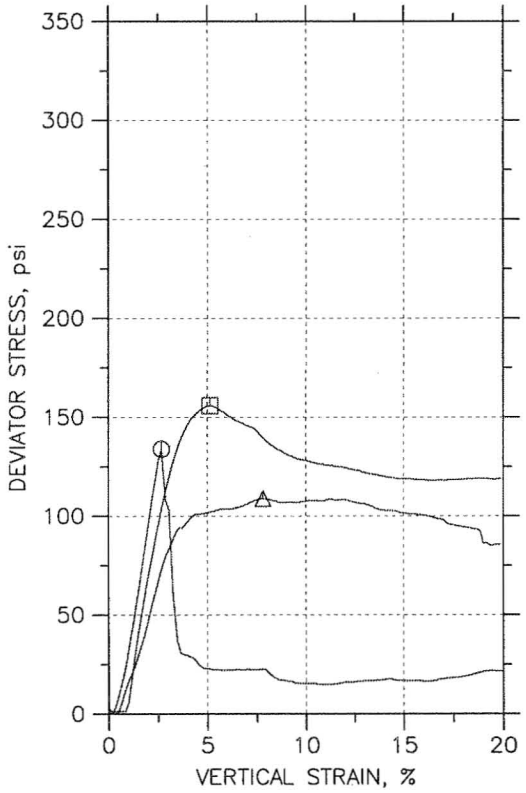
Remarks:

Phase calculations based on start and end of test.

Mon, 30-JUL-2007 10:53:28

UNCONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D2850





Symbol	⊙	△	⊡	
Sample No.	UD-6	UD-6	UD-6	
Test No.	7609.1	7609.2	7609.3	
Depth	105.00'	105.00'	105.00'	
Tested by	BM	BM	BM	
Test Date	06/28/07	06/28/07	06/28/07	
Checked by	HJ	HJ	HJ	
Check Date	7/31/07	7/31/07	7/31/07	
Diameter, in	2.84	2.846	2.832	
Height, in	5.608	5.604	6.007	
Water Content, %	29.8	30.7	35.6	
Dry Density, pcf	91.66	89.38	83.19	
Saturation, %	96.0	93.5	93.7	
Void Ratio	0.839	0.886	1.03	
Confining Stress, psi	28	56	112	
Undrained Strength, psi	66.95	54.37	77.84	
Max. Dev. Stress, psi	133.9	108.7	155.7	
Strain at Failure, %	2.67	7.81	5.14	
Strain Rate, %/min	1	1	1	
Estimated Specific Gravity	2.7	2.7	2.7	
Liquid Limit	---	---	---	
Plastic Limit	---	---	---	
Plasticity Index	---	---	---	

MACTEC

Project: Vogtle COL

Location: B-4030 UD-6

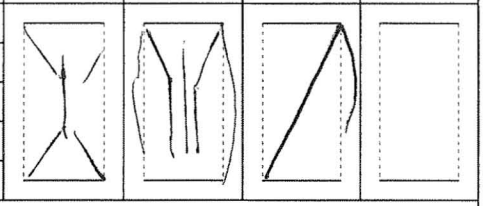
Project No.: 6141060286

Boring No.: B-4030

Sample Type: Undisturbed

Description: CLAY (CL) (Visual)

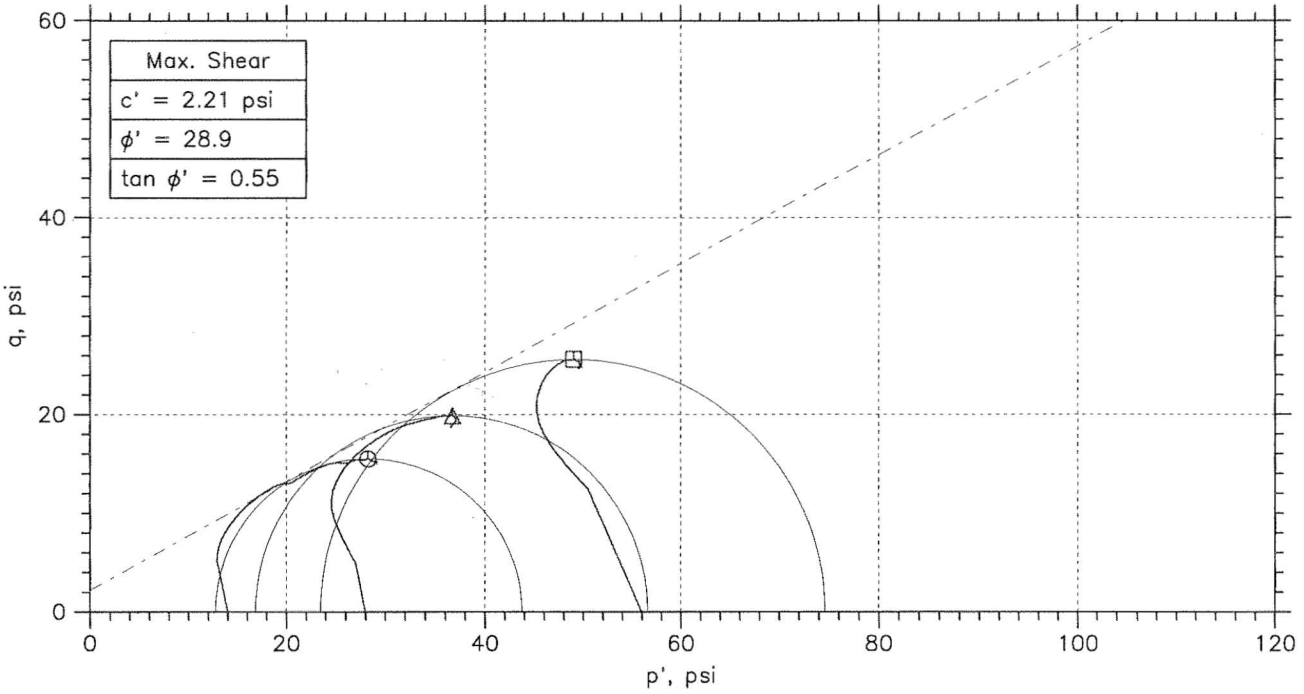
Remarks: HJ 7/31/07

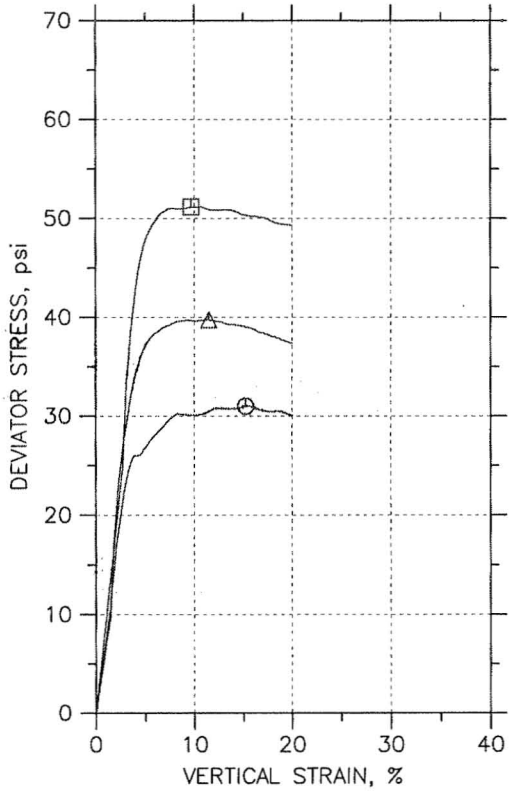


Phase calculations based on start and end of test.

Tue, 31-JUL-2007 09:57:17

CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767

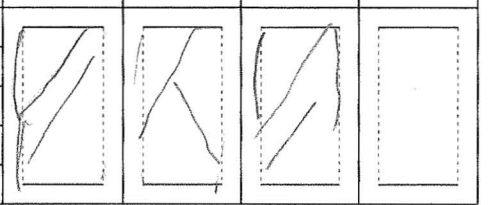




Symbol		⊙	△	⊡	
Sample No.		UD-2	UD-2	UD-2	
Test No.		7477.1	7477.2	7477.3	
Depth		33.5 ft	33.5 ft	33.5 ft	
Initial	Diameter, in	2.826	2.819	2.836	
	Height, in	6	6	6	
	Water Content, %	33.5	29.4	28.9	
	Dry Density, pcf	85.07	90.75	91.44	
	Saturation, %	94.0	94.8	94.8	
	Void Ratio	0.945	0.823	0.809	
Before Shear	Water Content, %	37.1	32.7	29.1	
	Dry Density, pcf	83.41	88.62	93.47	
	Saturation*, %	100.0	100.0	100.0	
	Void Ratio	0.983	0.867	0.77	
	Back Press., psi	131.	100.	100.	
Ver. Eff. Cons. Stress, psi		14.	28.	56.	
Shear Strength, psi		15.49	19.86	25.58	
Strain at Failure, %		15.2	11.5	9.72	
Strain Rate, %/min		0.1	0.1	0.1	
B-Value		0.98	0.98	0.98	
Estimated Specific Gravity		2.65	2.65	2.65	
Liquid Limit		---	---	---	
Plastic Limit		---	---	---	

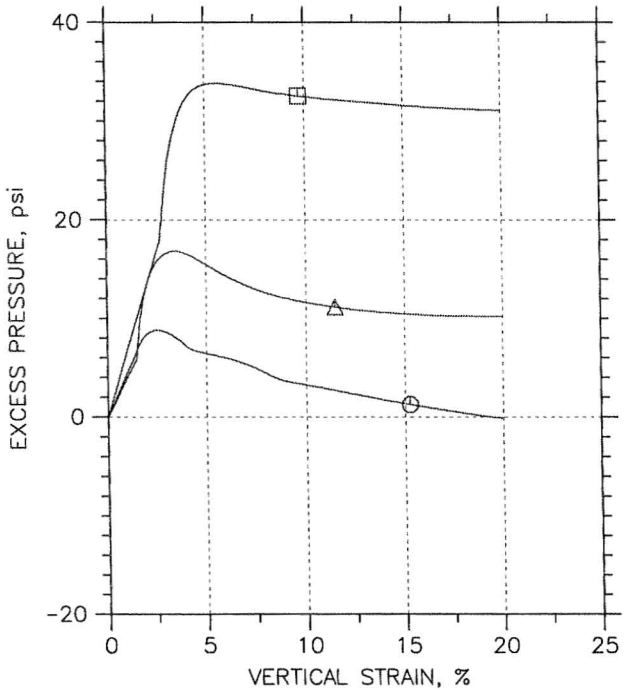
MACTEC

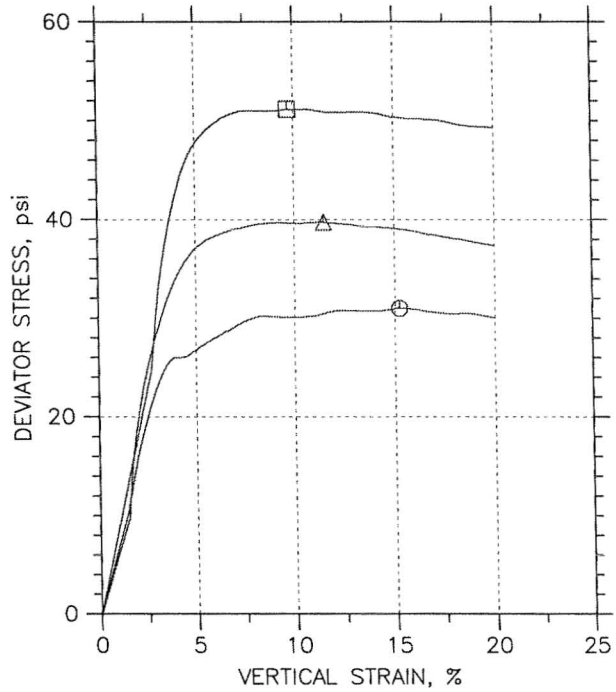
Project: Vogtle COL
Location: B-1130
Project No.: 6141060286
Boring No.: B-1130
Sample Type: Undisturbed
Description: CLAY, sandy (CL) (Visual)
Remarks:

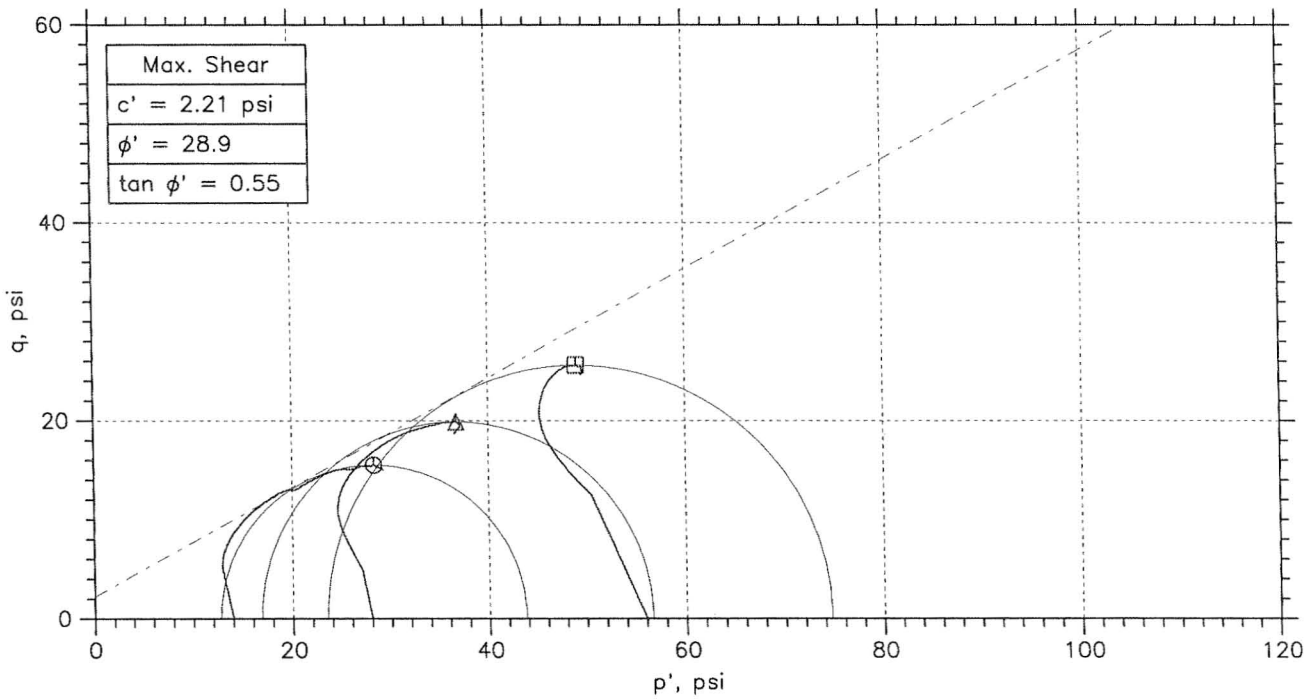


Phase calculations based on start and end of test.
* Saturation is set to 100% for phase calculations.

CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767







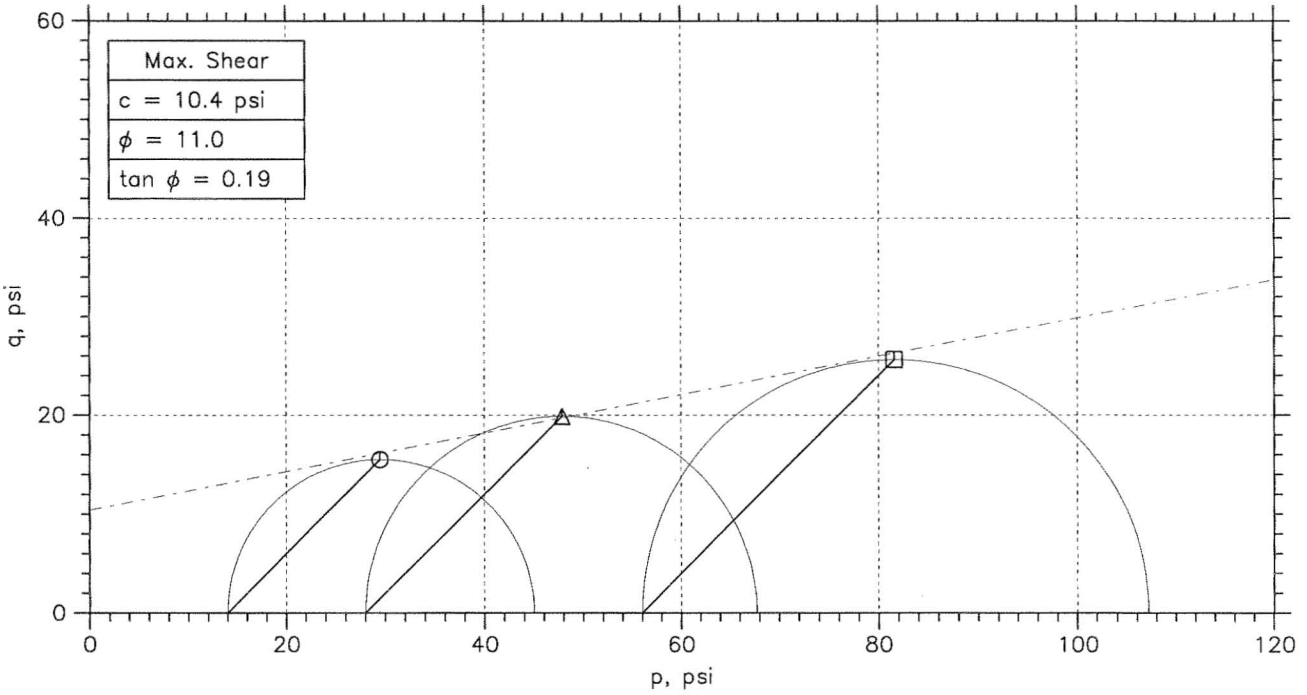
	Sample No.	Test No.	Depth	Tested By	Test Date	Checked By	Check Date	Test File
⊙	UD-2	7477.1	33.5 ft	BM/JW	5/21/2007	JW		7477.1_2546a.dat
△	UD-2	7477.2	33.5 ft	BM/JW	5/21/07	JW	JW 7/31/07	7477.2_2545a.dat
⊡	UD-2	7477.3	33.5 ft	BM/JW	5/21/07	JW		7477.3_2547a.dat

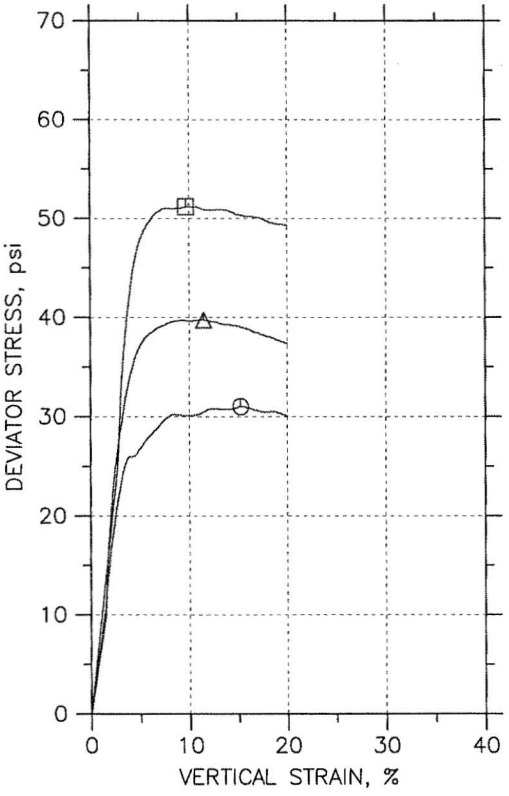
MACTEC

Project: Vogtle COL	Location: B-1130	Project No.: 6141060286
Boring No.: B-1130	Sample Type: Undisturbed	
Description: CLAY, sandy (CL) (Visual)		
Remarks:		

Mon, 30-JUL-2007 13:54:40

CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767





Symbol		⦶	△	⊡	
Sample No.		UD-2	UD-2	UD-2	
Test No.		7477.1	7477.2	7477.3	
Depth		33.5 ft	33.5 ft	33.5 ft	
Initial	Diameter, in	2.826	2.819	2.836	
	Height, in	6	6	6	
	Water Content, %	33.5	29.4	28.9	
	Dry Density, pcf	85.07	90.75	91.44	
	Saturation, %	94.0	94.8	94.8	
	Void Ratio	0.945	0.823	0.809	
Before Shear	Water Content, %	37.1	32.7	29.1	
	Dry Density, pcf	83.41	88.62	93.47	
	Saturation*, %	100.0	100.0	100.0	
	Void Ratio	0.983	0.867	0.77	
	Back Press., psi	131.	100.	100.	
Ver. Eff. Cons. Stress, psi		14.	28.	56.	
Shear Strength, psi		15.49	19.86	25.58	
Strain at Failure, %		15.2	11.5	9.72	
Strain Rate, %/min		0.1	0.1	0.1	
B-Value		0.98	0.98	0.98	
Estimated Specific Gravity		2.65	2.65	2.65	
Liquid Limit		---	---	---	
Plastic Limit		---	---	---	

MACTEC

Project: Vogtle COL

Location: B-1130

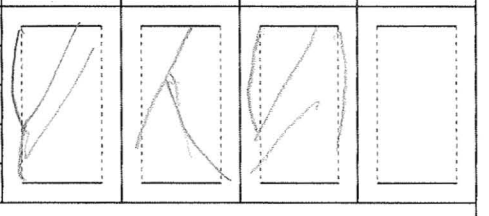
Project No.: 6141060286

Boring No.: B-1130

Sample Type: Undisturbed

Description: CLAY, sandy (CL) (Visual)

Remarks:

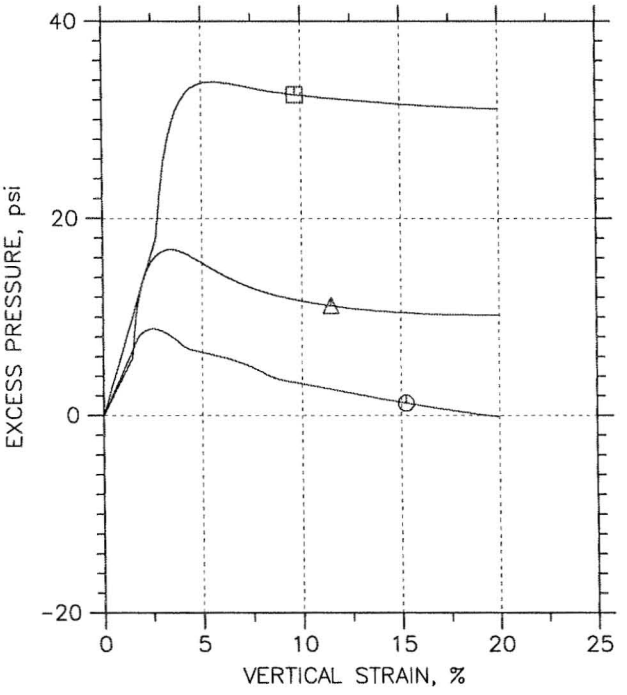


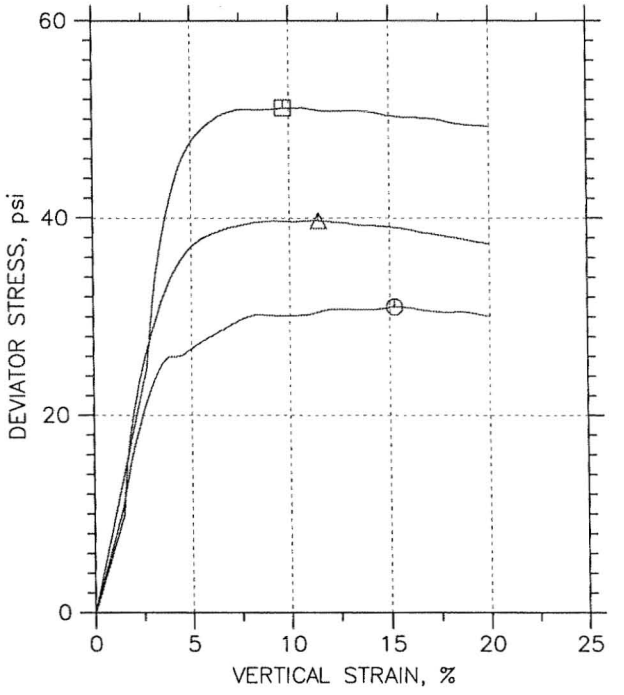
Phase calculations based on start and end of test.

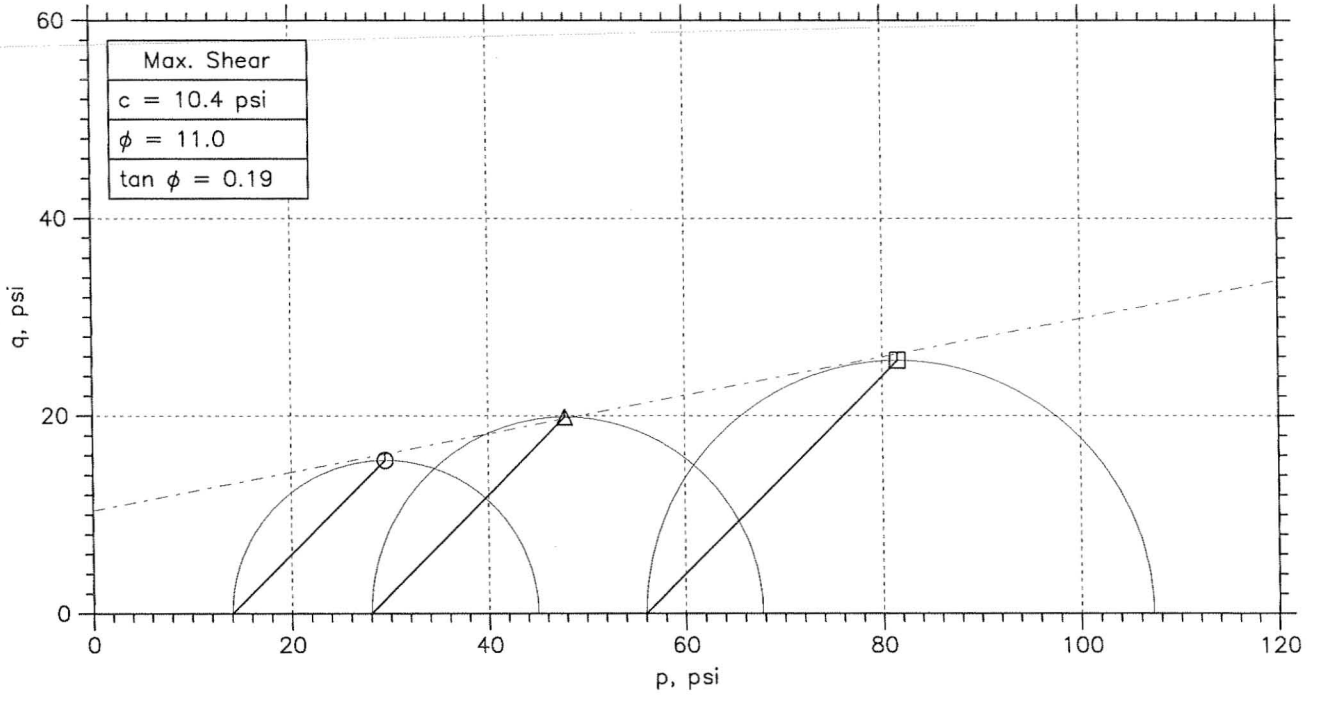
* Saturation is set to 100% for phase calculations.

Mon, 30-JUL-2007 13:54:46

CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767





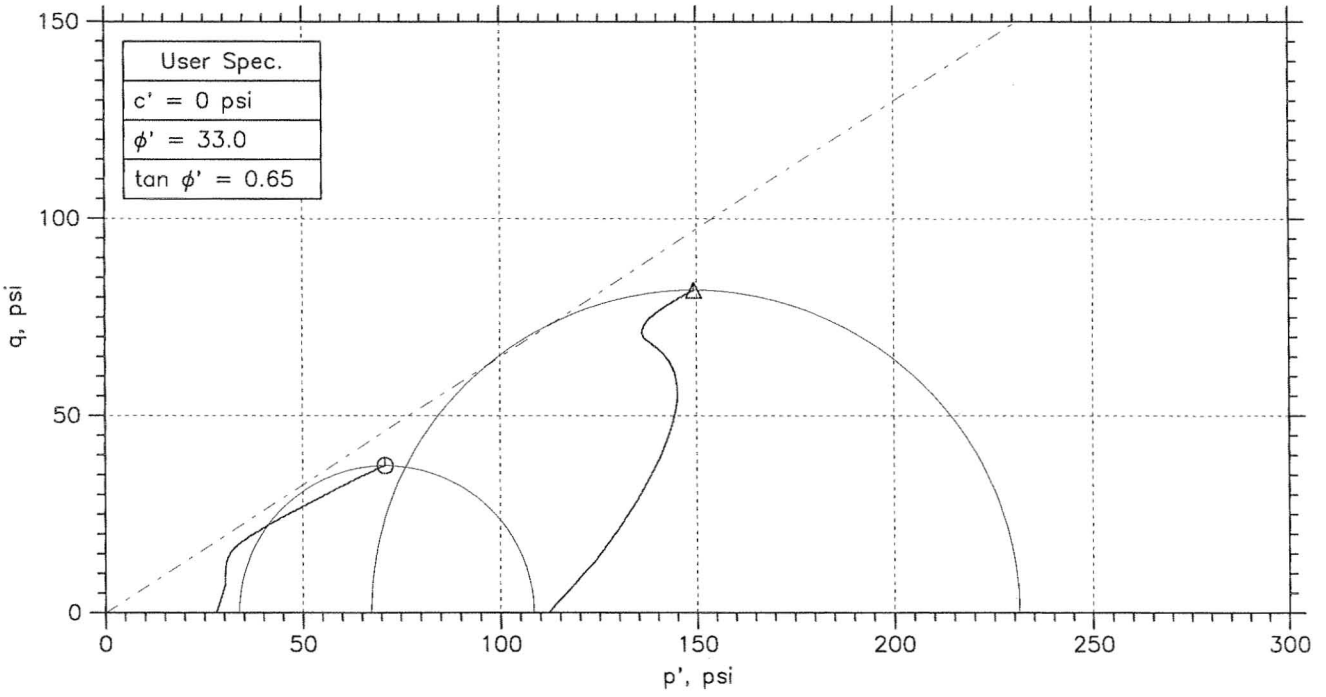


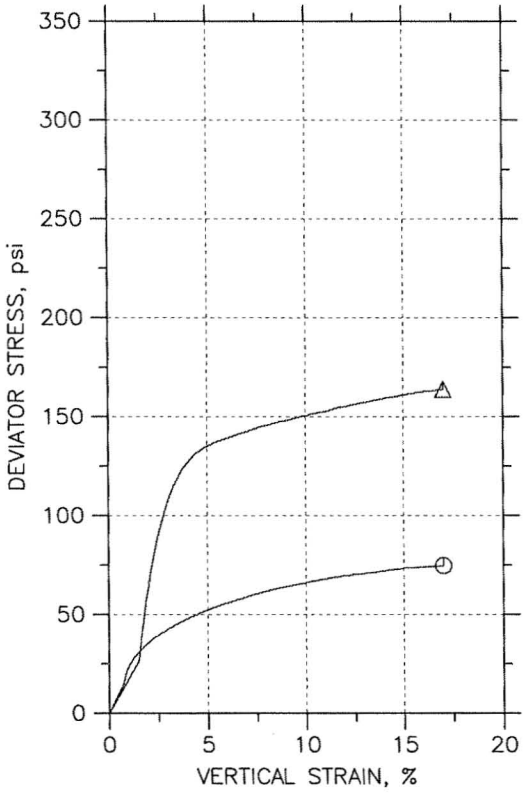
	Sample No.	Test No.	Depth	Tested By	Test Date	Checked By	Check Date	Test File
⊙	UD-2	7477.1	33.5 ft	BM/JW	5/21/2007	JW		7477.1_2546a.dat
△	UD-2	7477.2	33.5 ft	BM/JW	5/21/07	JW	JW 7/31/07	7477.2_2545a.dat
⊡	UD-2	7477.3	33.5 ft	BM/JW	5/21/07	JW		7477.3_2547a.dat

MACTEC

Project: Vogtle COL	Location: B-1130	Project No.: 6141060286
Boring No.: B-1130	Sample Type: Undisturbed	
Description: CLAY, sandy (CL) (Visual)		
Remarks:		

CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767





Symbol		⦶	△		
Sample No.		UD-3	UD-3		
Test No.		7478.1	7478.3		
Depth		38.5 ft	38.5 ft		
Initial	Diameter, in	2.864	2.88		
	Height, in	5.625	5.607		
	Water Content, %	16.9	16.9		
	Dry Density, pcf	96.81	96.36		
	Saturation, %	63.0	62.6		
	Void Ratio	0.709	0.717		
Before Shear	Water Content, %	24.4	22.5		
	Dry Density, pcf	100.4	103.7		
	Saturation*, %	100.0	100.0		
	Void Ratio	0.647	0.595		
	Back Press., psi	120.	36.		
Ver. Eff. Cons. Stress, psi		28.	112.		
Shear Strength, psi		37.28	81.91		
Strain at Failure, %		17	17		
Strain Rate, %/min		0.1	0.1		
B-Value		0.97	0.97		
Estimated Specific Gravity		2.65	2.65		
Liquid Limit		---	---		
Plastic Limit		---	---		

MACTEC

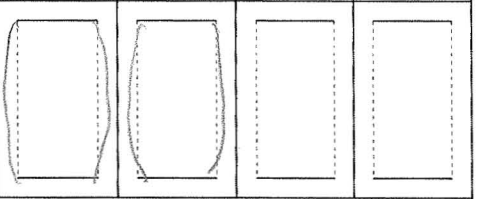
Project: Vogtle COL

Location: B-1130

Project No.: 6141060286

Boring No.: B-1130

Sample Type: Undisturbed



Description: SAND, with clay (SP-SC) (Visual)

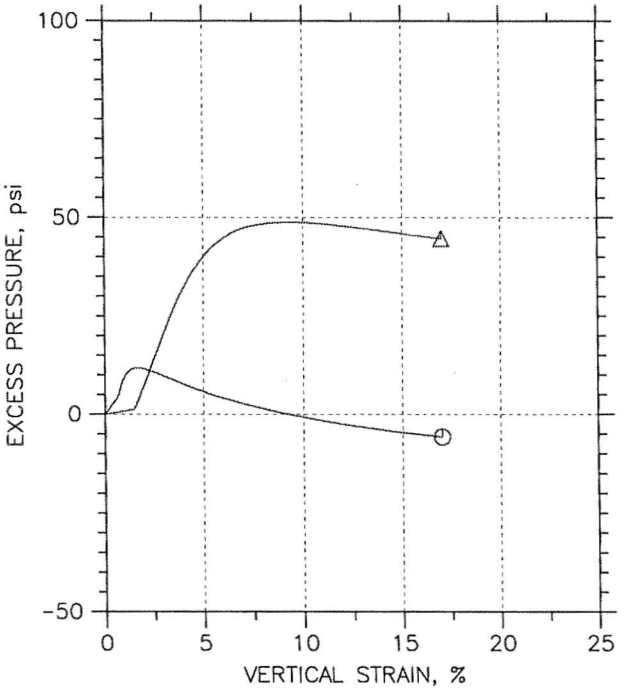
Remarks:

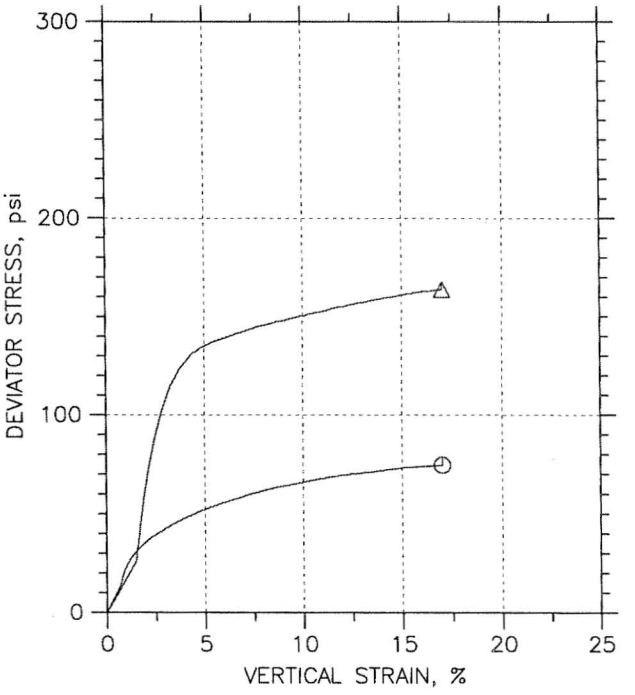
Phase calculations based on start and end of test.

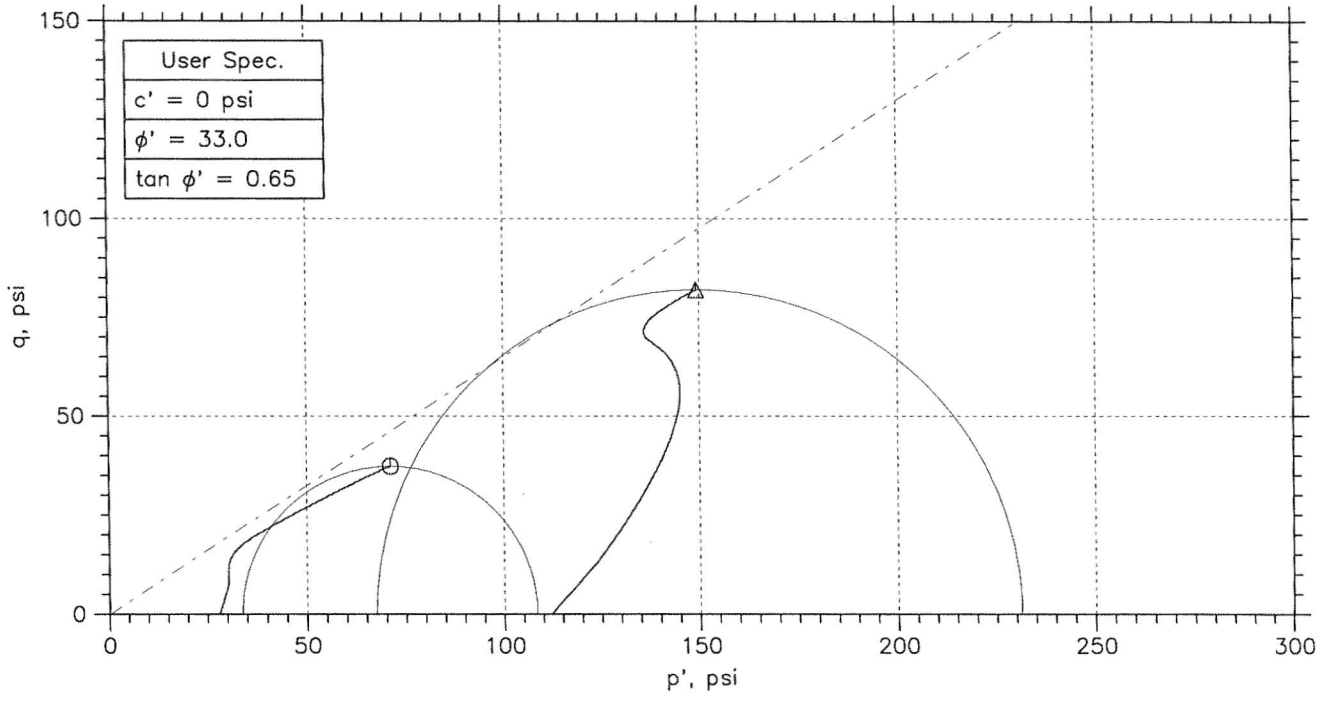
* Saturation is set to 100% for phase calculations.

Mon, 30-JUL-2007 13:58:22

CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767





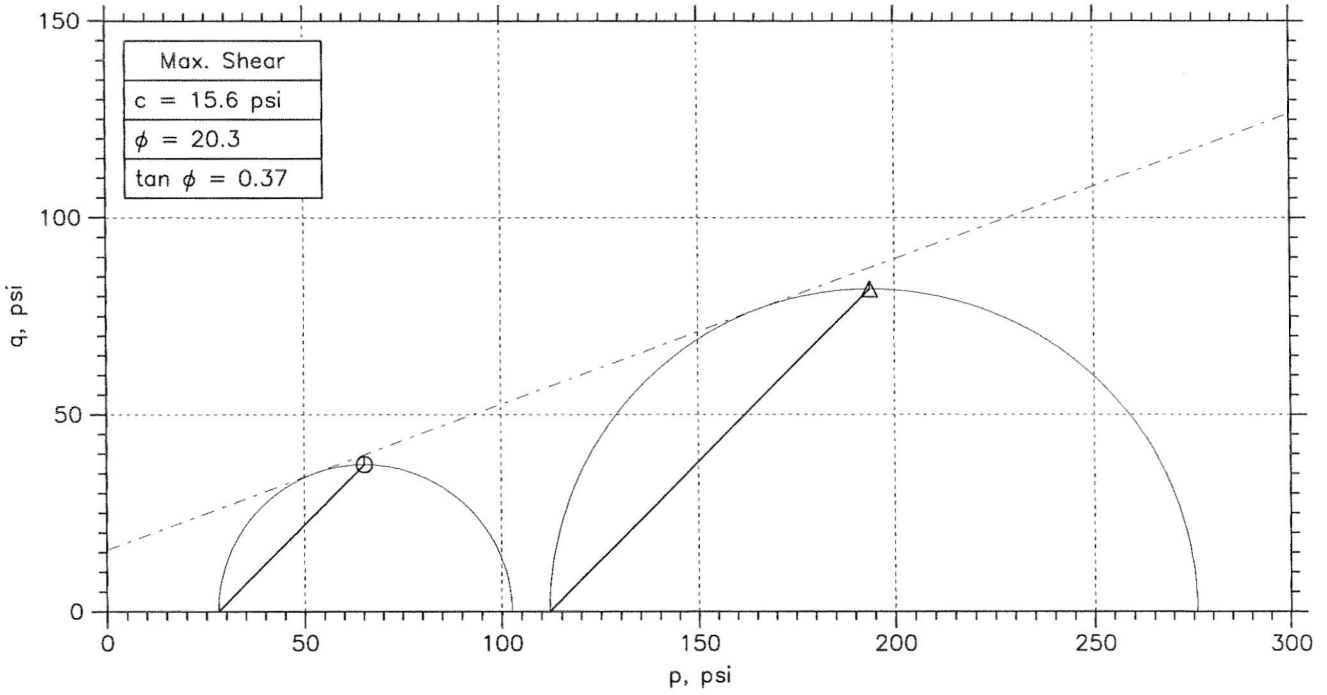


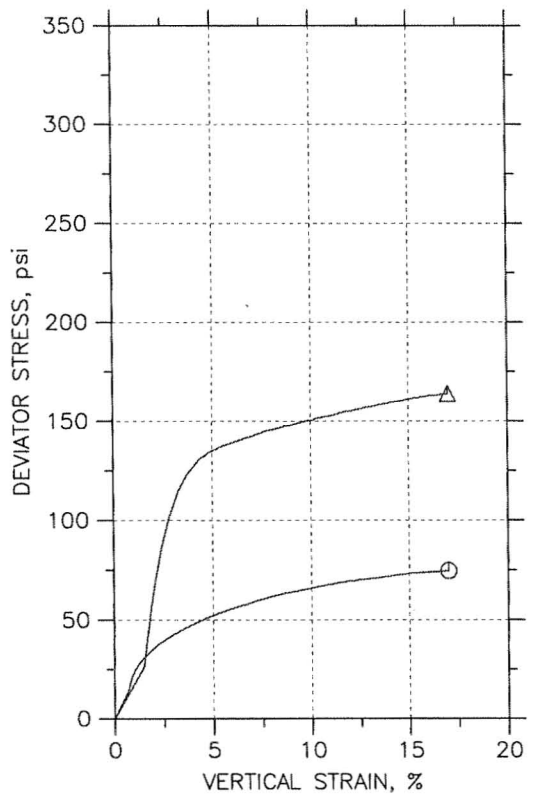
	Sample No.	Test No.	Depth	Tested By	Test Date	Checked By	Check Date	Test File
⦶	UD-3	7478.1	38.5 ft	HJ	7/18/07	JW	SW 7/31/07	7478.2_2582.dat
△	UD-3	7478.3	38.5 ft	HJ	7/17/07	JW		7478.3_2581a.dat

MACTEC

Project: Vogtle COL	Location: B-1130	Project No.: 6141060286
Boring No.: B-1130	Sample Type: Undisturbed	
Description: SAND, with clay (SP-SC) (Visual)		
Remarks:		

CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767





Symbol		⦶	△		
Sample No.		UD-3	UD-3		
Test No.		7478.1	7478.3		
Depth		38.5 ft	38.5 ft		
Initial	Diameter, in	2.864	2.88		
	Height, in	5.625	5.607		
	Water Content, %	16.9	16.9		
	Dry Density, pcf	96.81	96.36		
	Saturation, %	63.0	62.6		
	Void Ratio	0.709	0.717		
Before Shear	Water Content, %	24.4	22.5		
	Dry Density, pcf	100.4	103.7		
	Saturation*, %	100.0	100.0		
	Void Ratio	0.647	0.595		
	Back Press., psi	120.	36.		
Ver. Eff. Cons. Stress, psi		28.	112.		
Shear Strength, psi		37.28	81.91		
Strain at Failure, %		17	17		
Strain Rate, %/min		0.1	0.1		
B-Value		0.97	0.97		
Estimated Specific Gravity		2.65	2.65		
Liquid Limit		---	---		
Plastic Limit		---	---		

MACTEC

Project: Vogtle COL

Location: B-1130

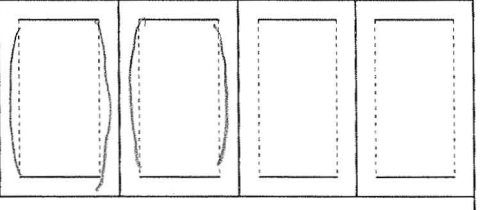
Project No.: 6141060286

Boring No.: B-1130

Sample Type: Undisturbed

Description: SAND, with clay (SP-SC) (Visual)

Remarks:

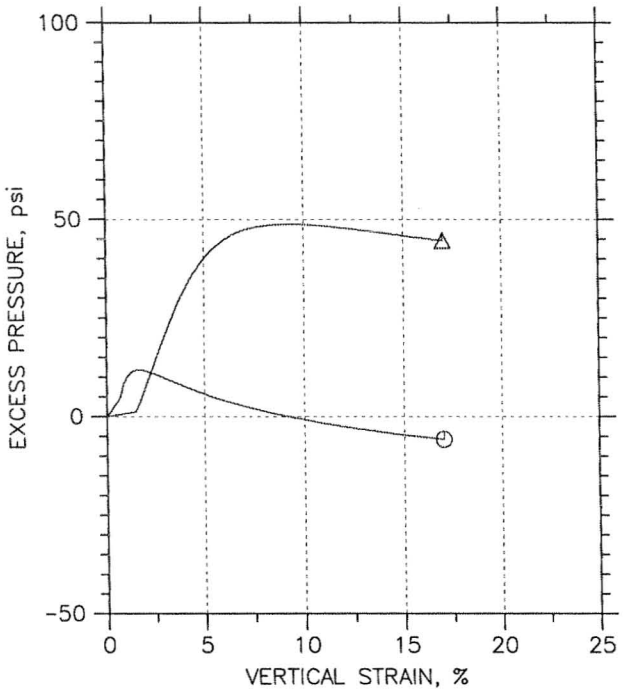


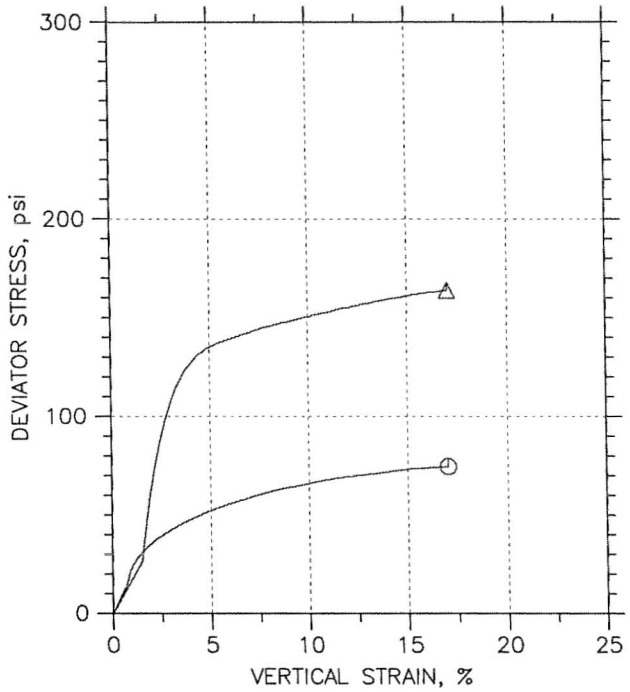
Phase calculations based on start and end of test.

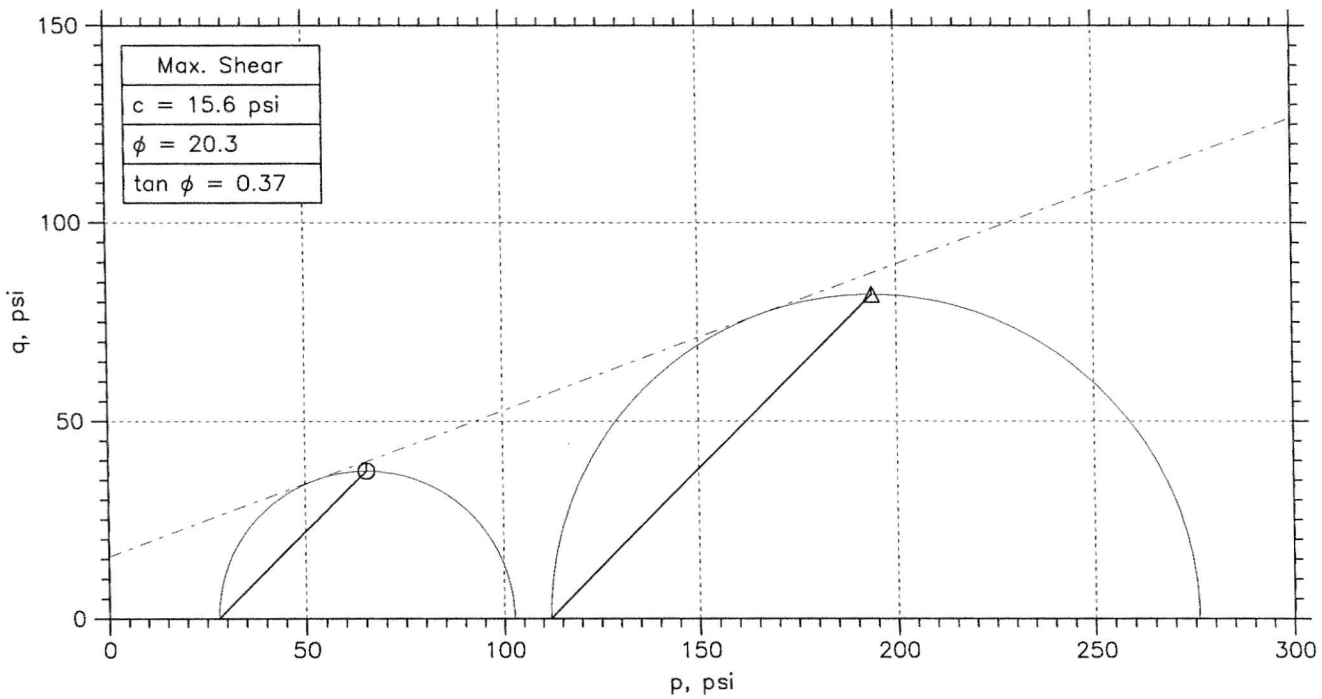
* Saturation is set to 100% for phase calculations.

Mon, 30-JUL-2007 13:58:12

CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767





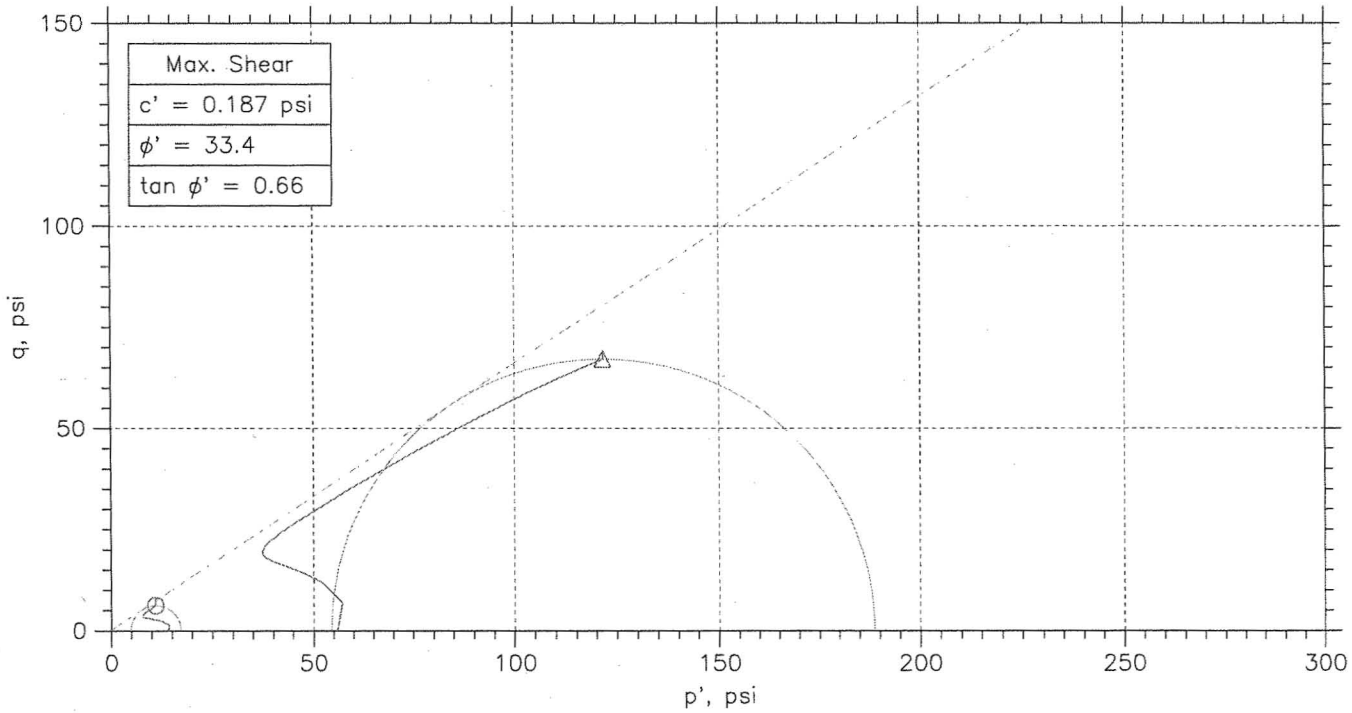


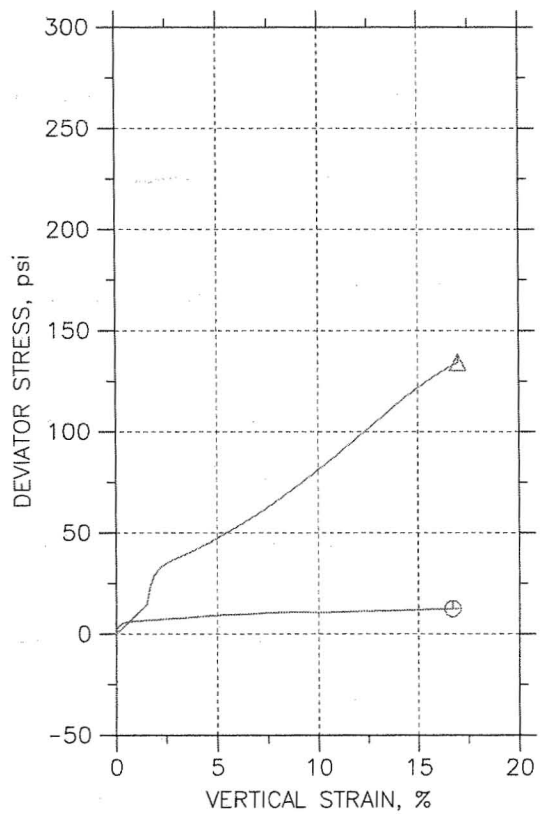
	Sample No.	Test No.	Depth	Tested By	Test Date	Checked By	Check Date	Test File
⊙	UD-3	7478.1	38.5 ft	HJ	7/18/07	JW		7478.2_2582.dat
△	UD-3	7478.3	38.5 ft	HJ	7/17/07	JW	JW 7/31/07	7478.3_2581a.dat

MACTEC

Project: Vogtle COL	Location: B-1130	Project No.: 6141060286
Boring No.: B-1130	Sample Type: Undisturbed	
Description: SAND, with clay (SP-SC) (Visual)		
Remarks:		

CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767

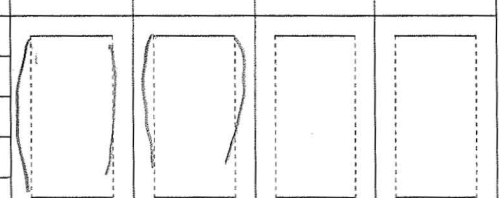




Symbol		⦶	△		
Sample No.		UD-1	UD-1		
Test No.		7479.1	7479.3		
Depth		28.5 ft	28.5 ft		
Initial	Diameter, in	2.875	2.848		
	Height, in	5.565	5.623		
	Water Content, %	36.2	18.6		
	Dry Density, pcf	85.69	110.3		
	Saturation, %	103.2	98.6		
	Void Ratio	0.931	0.5		
Before Shear	Water Content, %	22.8	17.4		
	Dry Density, pcf	103.	113.3		
	Saturation*, %	100.0	100.0		
	Void Ratio	0.605	0.46		
	Back Press., psi	30.	90.		
Ver. Eff. Cons. Stress, psi		14.	56.		
Shear Strength, psi		6.211	67.09		
Strain at Failure, %		16.7	17		
Strain Rate, %/min		0.1	0.1		
B-Value		0.99	0.98		
Estimated Specific Gravity		2.65	2.65		
Liquid Limit		---	---		
Plastic Limit		---	---		

MACTEC

Project: Vogtle COL
Location: B-1131
Project No.: 6141060286
Boring No.: B-1131
Sample Type: Undisturbed

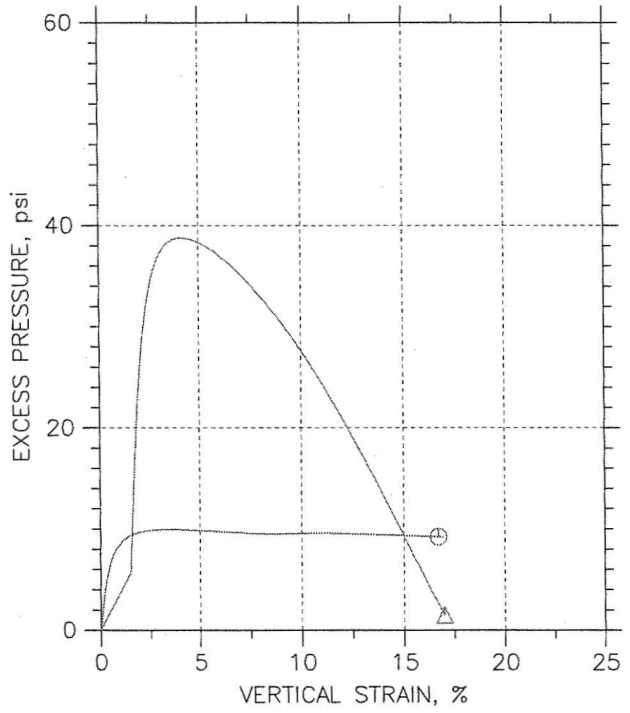


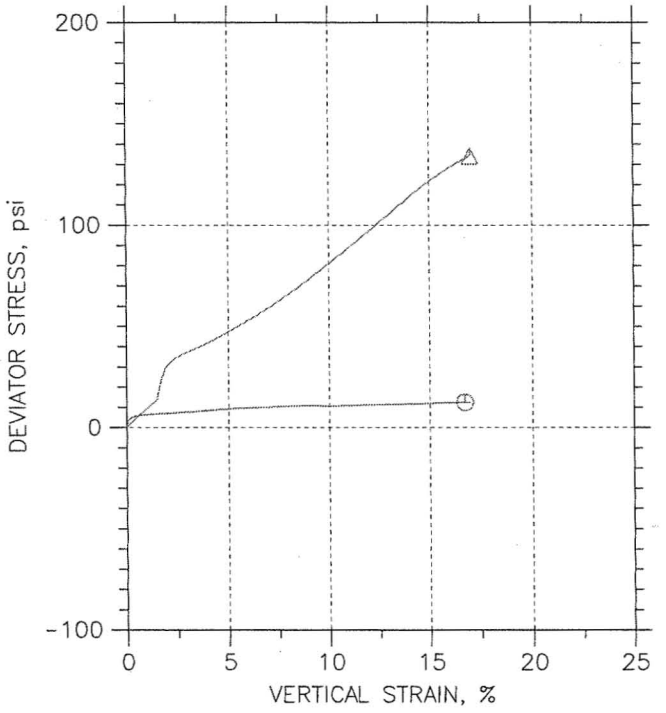
Description: SAND, silty (SM) (Visual)
Remarks:

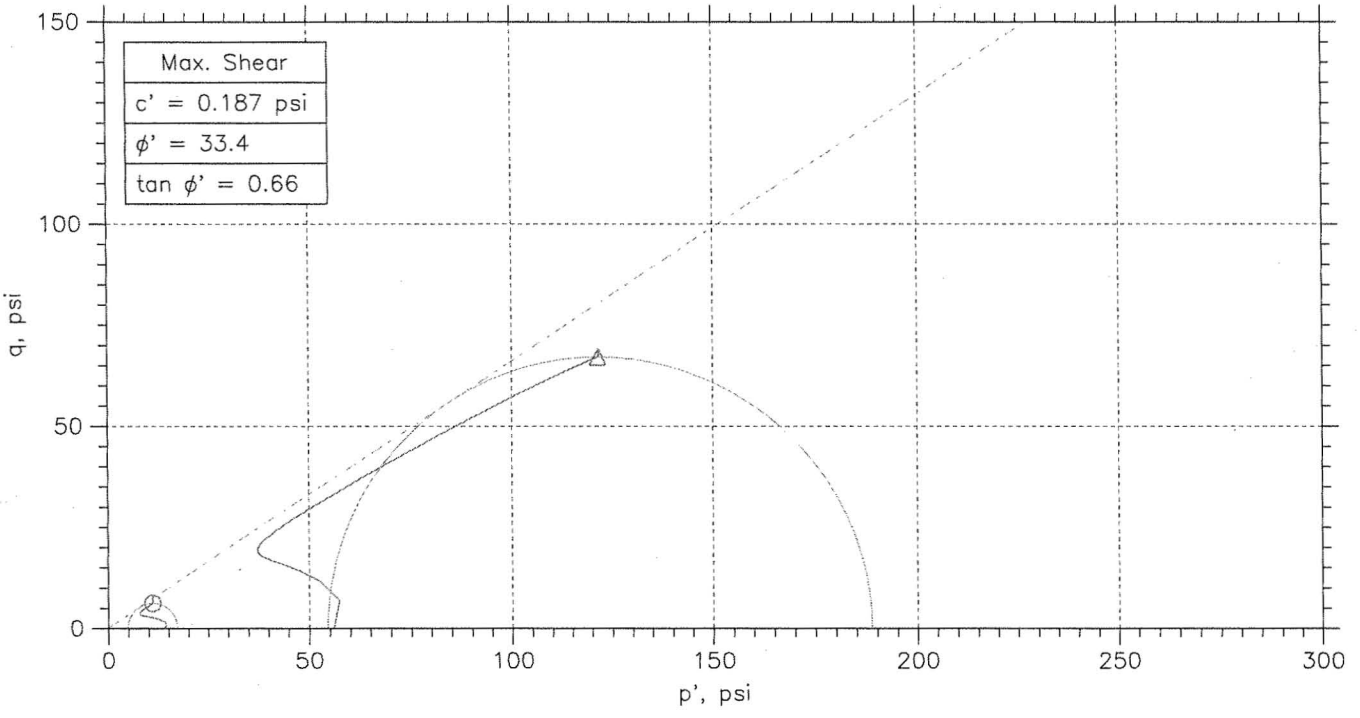
Phase calculations based on start and end of test.
* Saturation is set to 100% for phase calculations.

Tue, 31-JUL-2007 10:40:34

CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767







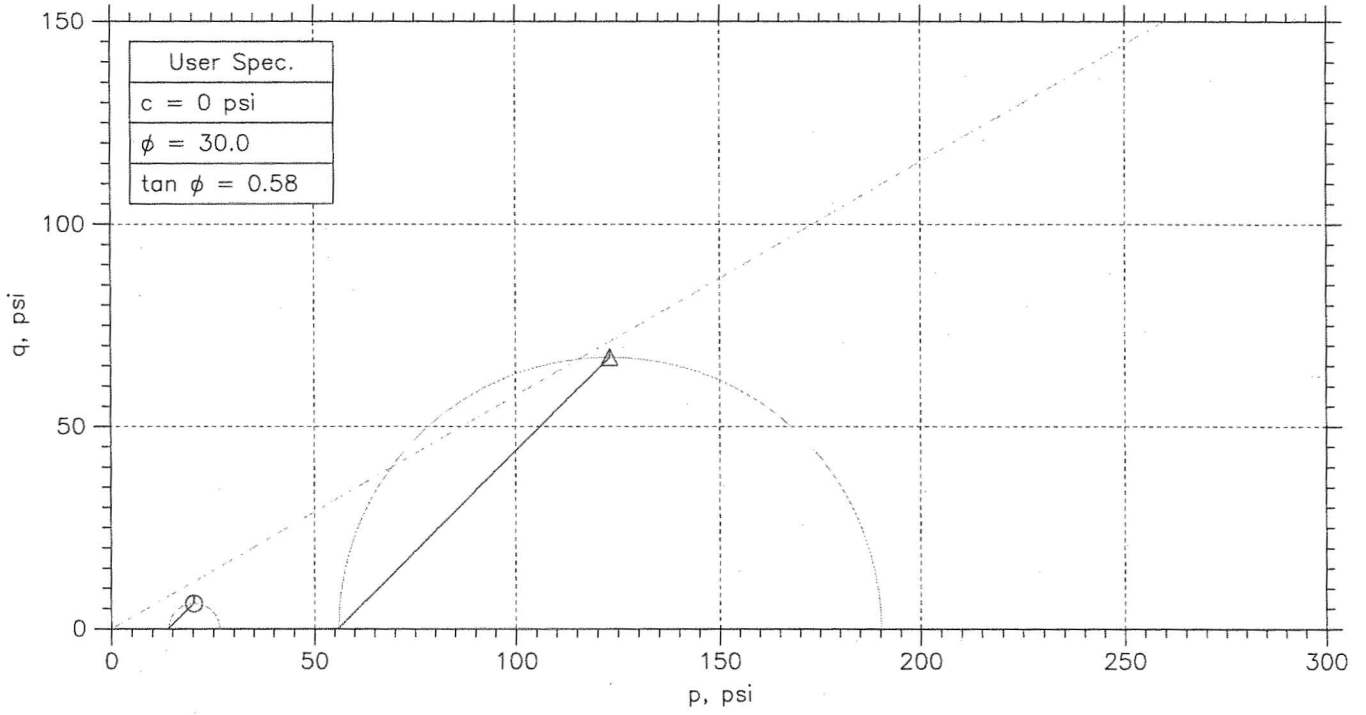
	Sample No.	Test No.	Depth	Tested By	Test Date	Checked By	Check Date	Test File
⊙	UD-1	7479.1	28.5 ft	HJ	7/27/07	JW	SW 7/31/07	7479.1_2583.dat
△	UD-1	7479.3	28.5 ft	HJ	7/28/07	JW		7479.3_2581a.dat

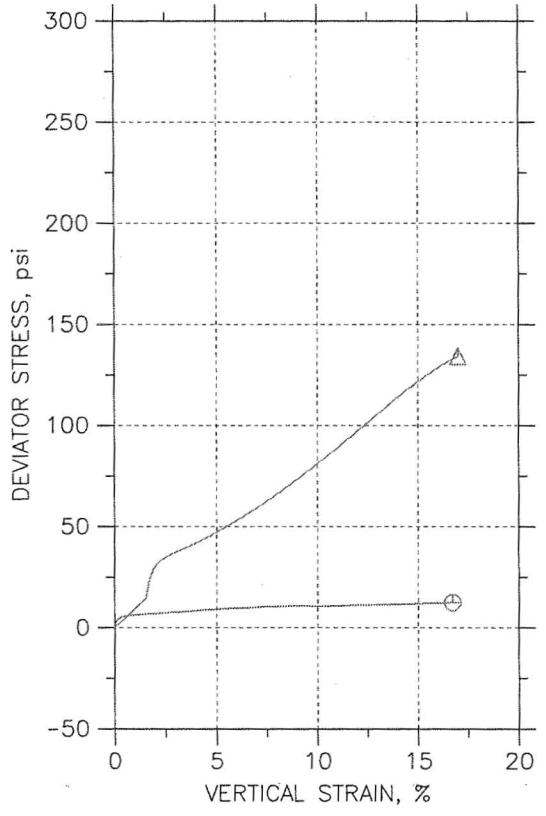
MACTEC

Project: Vogtle COL	Location: B-1131	Project No.: 6141060286
Boring No.: B-1131	Sample Type: Undisturbed	
Description: SAND, silty (SM) (Visual)		
Remarks:		

Tue, 31-JUL-2007 10:40:34

CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767





Symbol		⦶	△		
Sample No.		UD-1	UD-1		
Test No.		7479.1	7479.3		
Depth		28.5 ft	28.5 ft		
Initial	Diameter, in	2.875	2.848		
	Height, in	5.565	5.623		
	Water Content, %	36.2	18.6		
	Dry Density, pcf	85.69	110.3		
	Saturation, %	103.2	98.6		
	Void Ratio	0.931	0.5		
Before Shear	Water Content, %	22.8	17.4		
	Dry Density, pcf	103.	113.3		
	Saturation*, %	100.0	100.0		
	Void Ratio	0.605	0.46		
	Back Press., psi	30.	90.		
Ver. Eff. Cons. Stress, psi		14.	56.		
Shear Strength, psi		6.211	67.09		
Strain at Failure, %		16.7	17		
Strain Rate, %/min		0.1	0.1		
B-Value		0.99	0.98		
Estimated Specific Gravity		2.65	2.65		
Liquid Limit		---	---		
Plastic Limit		---	---		

MACTEC

Project: Vogtle COL

Location: B-1131

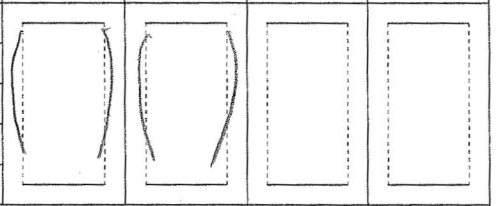
Project No.: 6141060286

Boring No.: B-1131

Sample Type: Undisturbed

Description: SAND, silty (SM) (Visual)

Remarks:

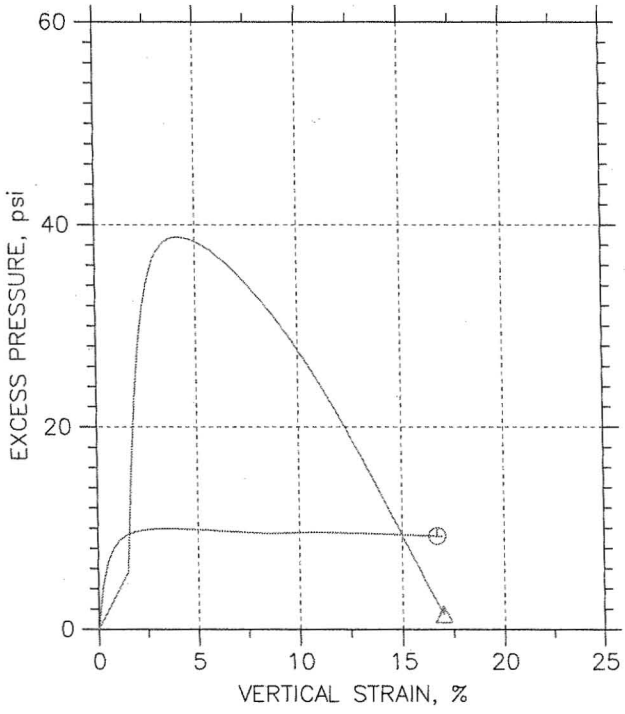


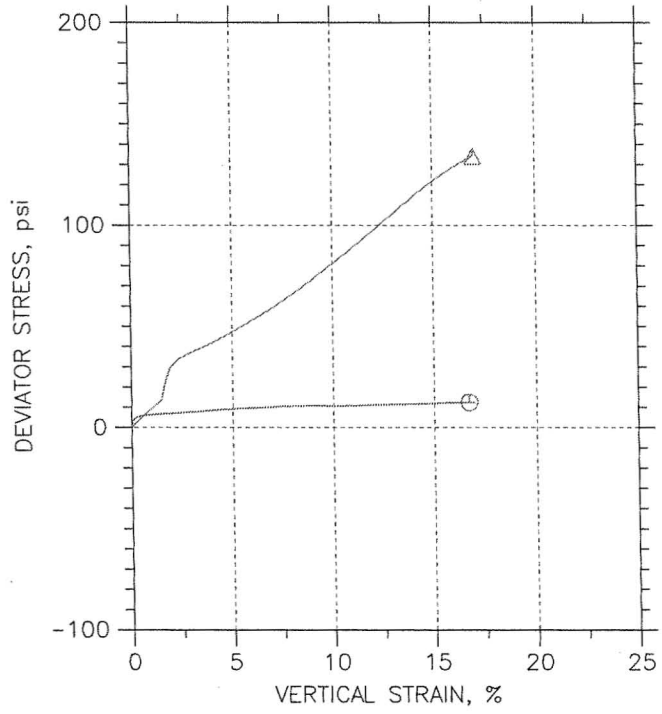
Phase calculations based on start and end of test.

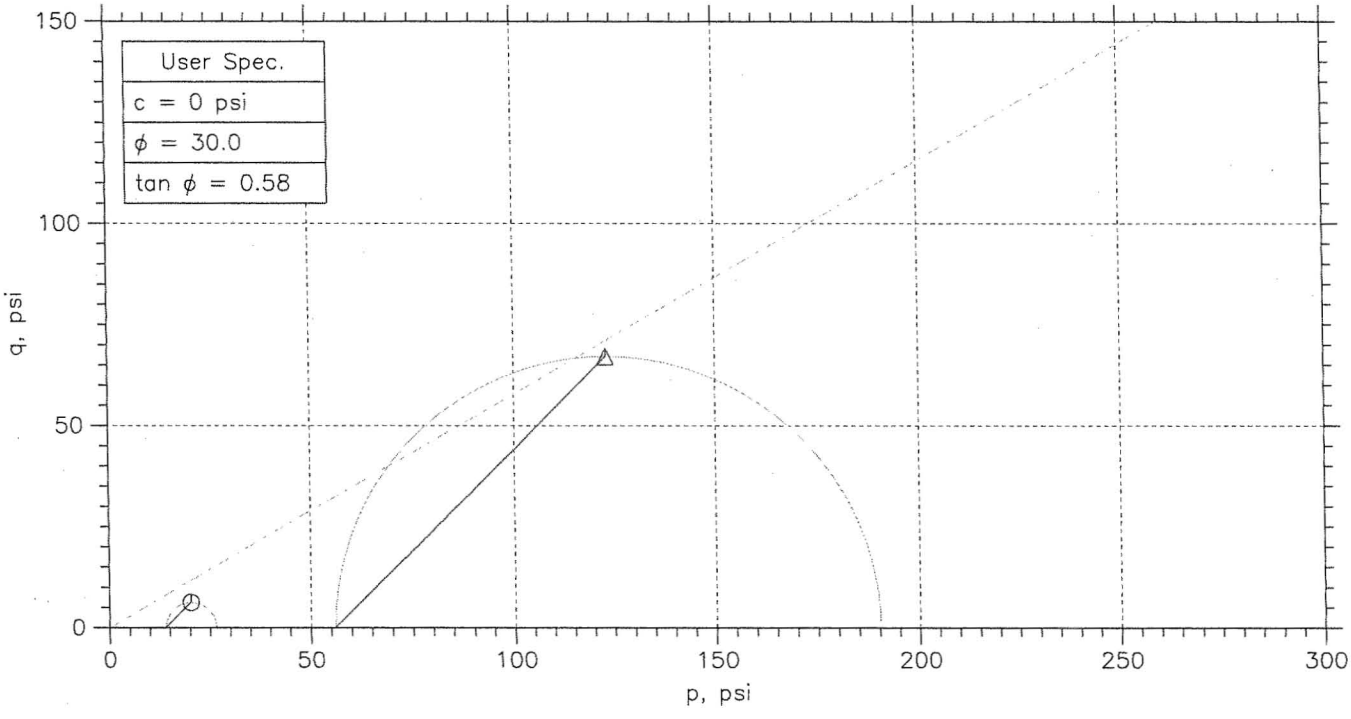
* Saturation is set to 100% for phase calculations.

Tue, 31-JUL-2007 10:40:55

CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767







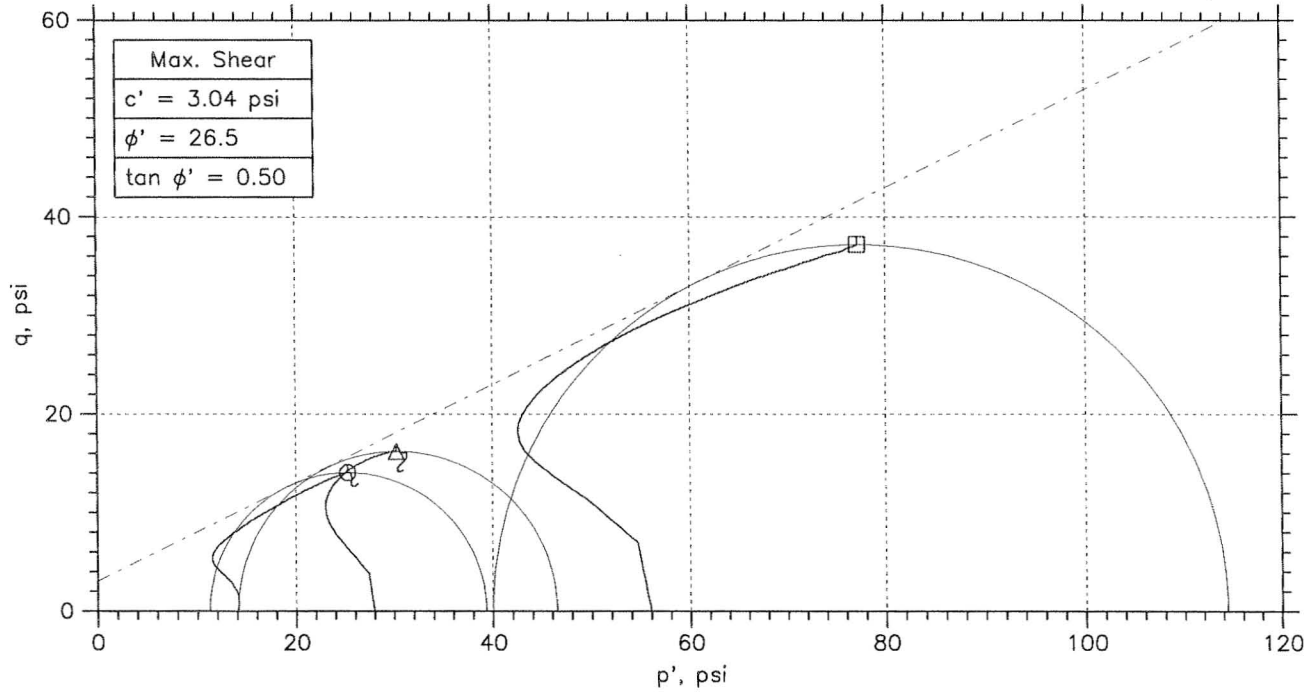
	Sample No.	Test No.	Depth	Tested By	Test Date	Checked By	Check Date	Test File
⊕	UD-1	7479.1	28.5 ft	HJ	7/27/07	JW	SW 7/31/07	7479.1_2583.dat
△	UD-1	7479.3	28.5 ft	HJ	7/28/07	JW		7479.3_2581a.dat

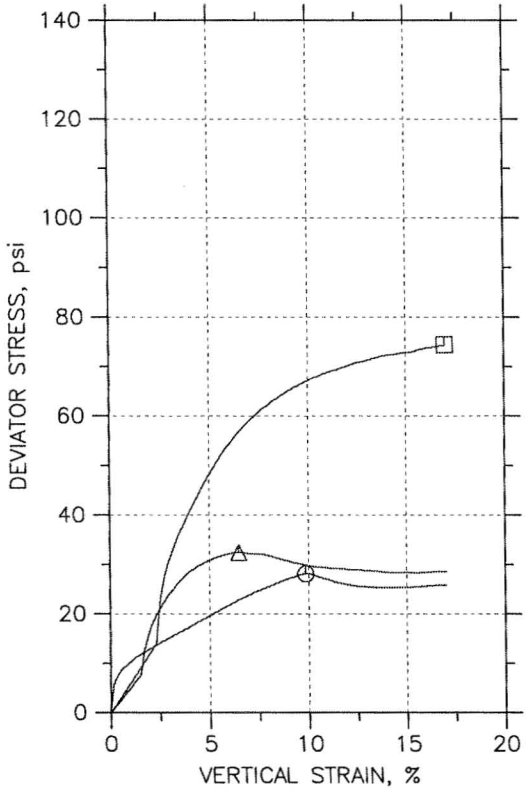
MACTEC

Project: Vogtle COL	Location: B-1131	Project No.: 6141060286
Boring No.: B-1131	Sample Type: Undisturbed	
Description: SAND, silty (SM) (Visual)		
Remarks:		

Tue, 31-JUL-2007 10:40:55

CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767

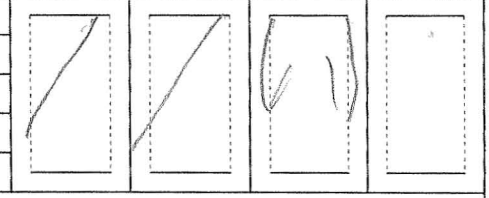




Symbol		⏲	△	⊡	
Sample No.		UD-1	UD-1	UD-1	
Test No.		7484.1	7484.2	7484.3	
Depth		28.0 ft	28.0 ft	28.0 ft	
Initial	Diameter, in	2.873	2.872	2.868	
	Height, in	5.599	5.636	5.627	
	Water Content, %	25.0	27.2	17.3	
	Dry Density, pcf	97.16	89.27	100.9	
	Saturation, %	94.4	84.4	71.5	
	Void Ratio	0.703	0.853	0.64	
Before Shear	Water Content, %	24.8	31.0	23.1	
	Dry Density, pcf	99.81	90.87	102.6	
	Saturation*, %	100.0	100.0	100.0	
	Void Ratio	0.657	0.82	0.613	
	Back Press., psi	51.99	106.	130.	
Ver. Eff. Cons. Stress, psi		14.01	28.	56.	
Shear Strength, psi		14.04	16.2	37.17	
Strain at Failure, %		9.85	6.46	17	
Strain Rate, %/min		0.1	0.1	0.1	
B-Value		1.09	0.97	0.97	
Estimated Specific Gravity		2.65	2.65	2.65	
Liquid Limit		---	---	---	
Plastic Limit		---	---	---	

MACTEC

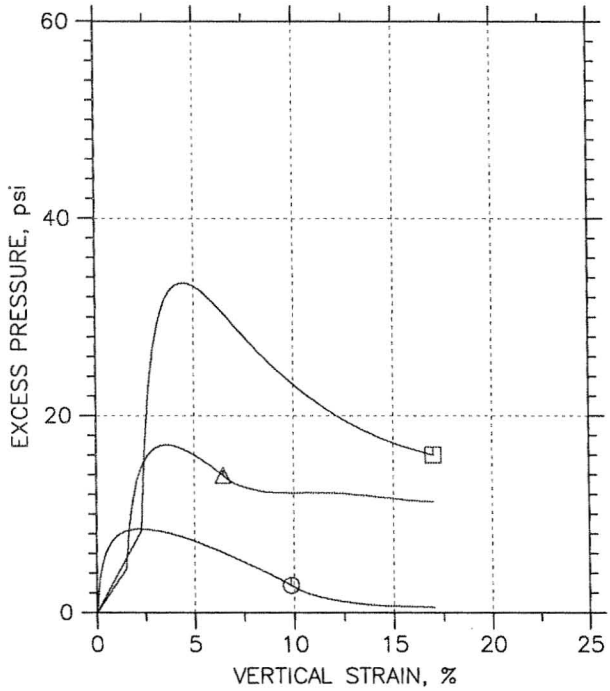
Project: Votgle COL
Location: B-1133
Project No.: 6141060286
Boring No.: B-1133
Sample Type: Undisturbed
Description: SAND, silty (SM) (Visual)
Remarks:

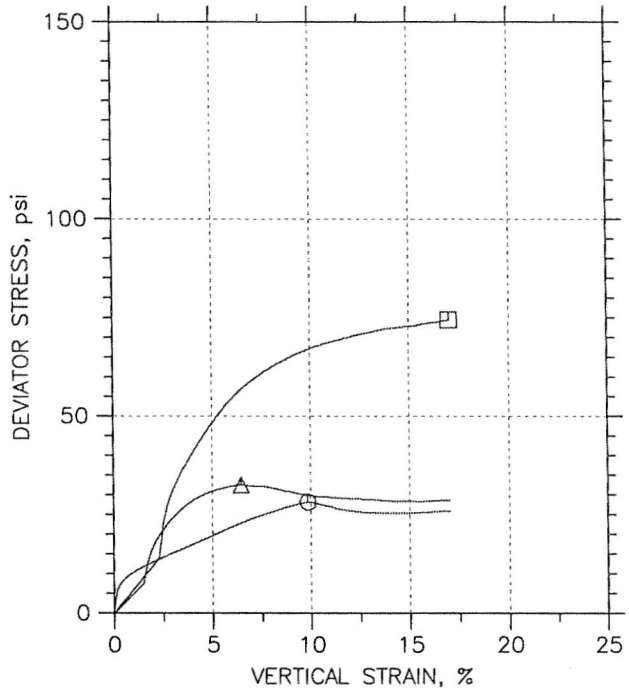


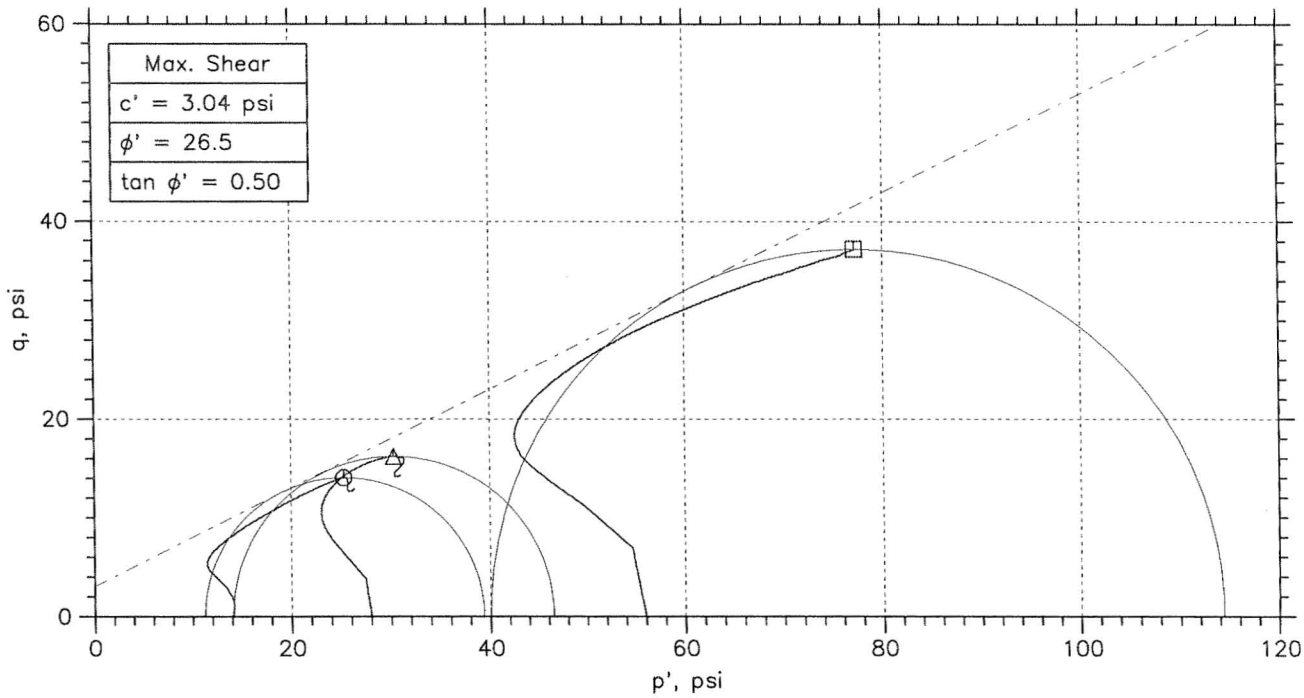
Phase calculations based on start and end of test.
* Saturation is set to 100% for phase calculations.

Mon, 30-JUL-2007 14:09:01

CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767





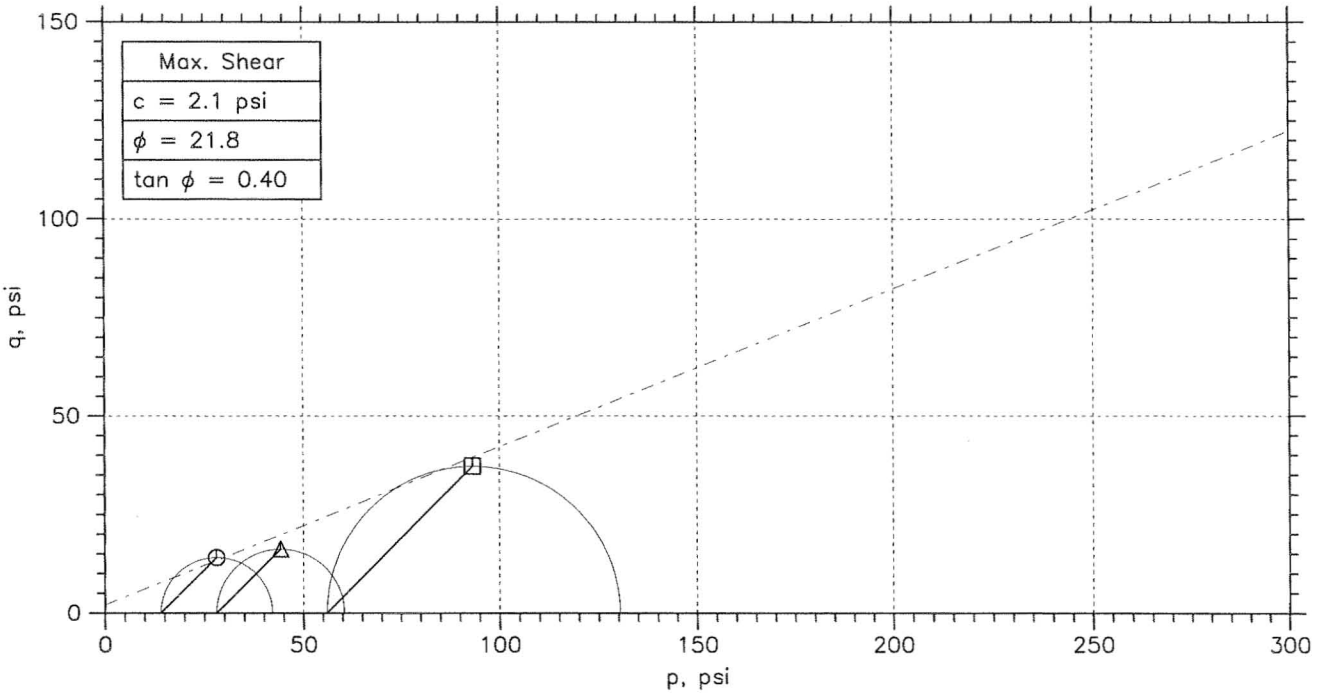


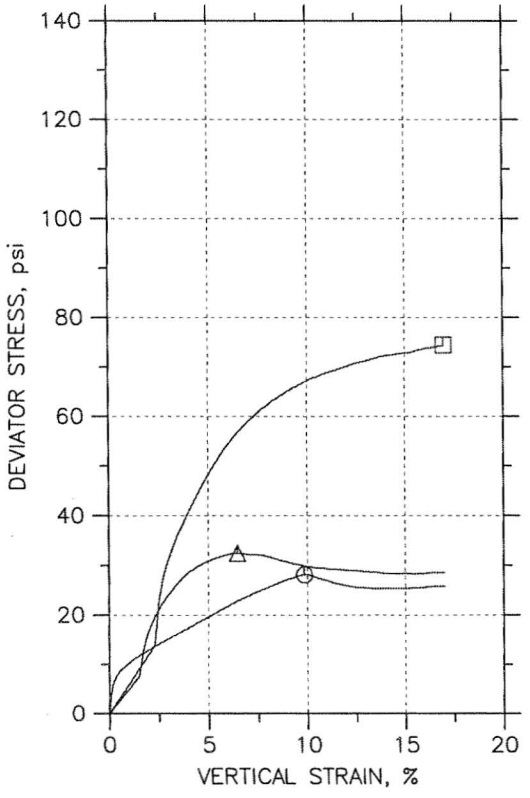
	Sample No.	Test No.	Depth	Tested By	Test Date	Checked By	Check Date	Test File
⊙	UD-1	7484.1	28.0 ft	JW	7/24/07	HJ		7484.1_2583.dat
△	UD-1	7484.2	28.0 ft	JW	7/24/07	HJ	7/31/07	7484.2_2582a.dat
⊡	UD-1	7484.3	28.0 ft	JW	7/24/07	HJ		7484.3_2581a.dat

MACTEC

Project: Votgle COL	Location: B-1133	Project No.: 6141060286
Boring No.: B-1133	Sample Type: Undisturbed	
Description: SAND, silty (SM) (Visual)		
Remarks:		

CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767

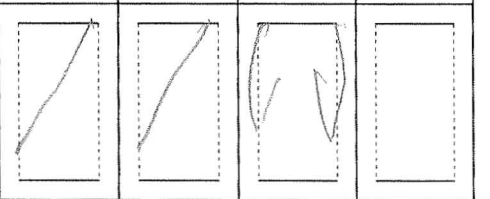




Symbol		⦶	△	⊡	
Sample No.		UD-1	UD-1	UD-1	
Test No.		7484.1	7484.2	7484.3	
Depth		28.0 ft	28.0 ft	28.0 ft	
Initial	Diameter, in	2.873	2.872	2.868	
	Height, in	5.599	5.636	5.627	
	Water Content, %	25.0	27.2	17.3	
	Dry Density, pcf	97.16	89.27	100.9	
	Saturation, %	94.4	84.4	71.5	
	Void Ratio	0.703	0.853	0.64	
Before Shear	Water Content, %	24.8	31.0	23.1	
	Dry Density, pcf	99.81	90.87	102.6	
	Saturation*, %	100.0	100.0	100.0	
	Void Ratio	0.657	0.82	0.613	
	Back Press., psi	51.99	106.	130.	
Ver. Eff. Cons. Stress, psi		14.01	28.	56.	
Shear Strength, psi		14.04	16.2	37.17	
Strain at Failure, %		9.85	6.46	17	
Strain Rate, %/min		0.1	0.1	0.1	
B-Value		1.09	0.97	0.97	
Estimated Specific Gravity		2.65	2.65	2.65	
Liquid Limit		---	---	---	
Plastic Limit		---	---	---	

MACTEC

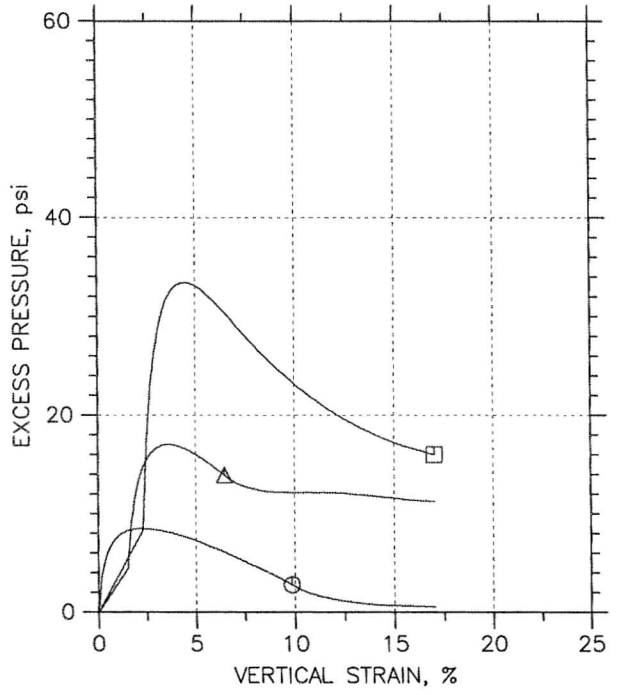
Project: Votgle COL
Location: B-1133
Project No.: 6141060286
Boring No.: B-1133
Sample Type: Undisturbed
Description: SAND, silty (SM) (Visual)
Remarks:

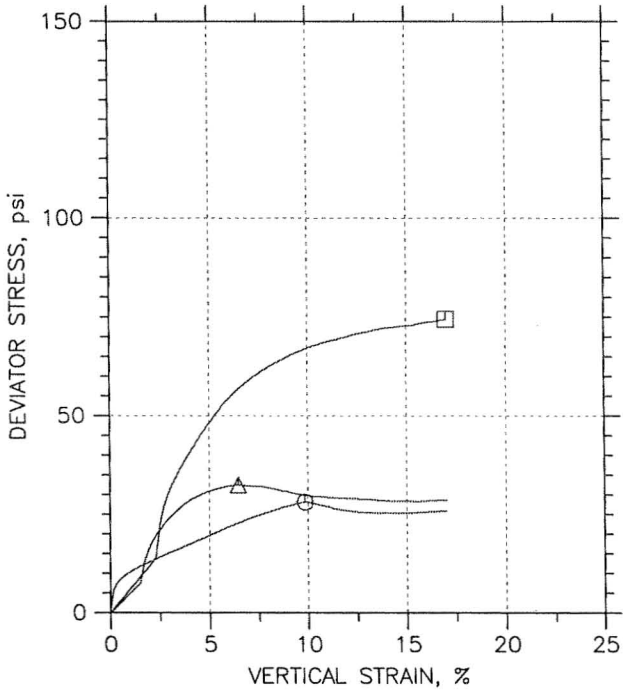


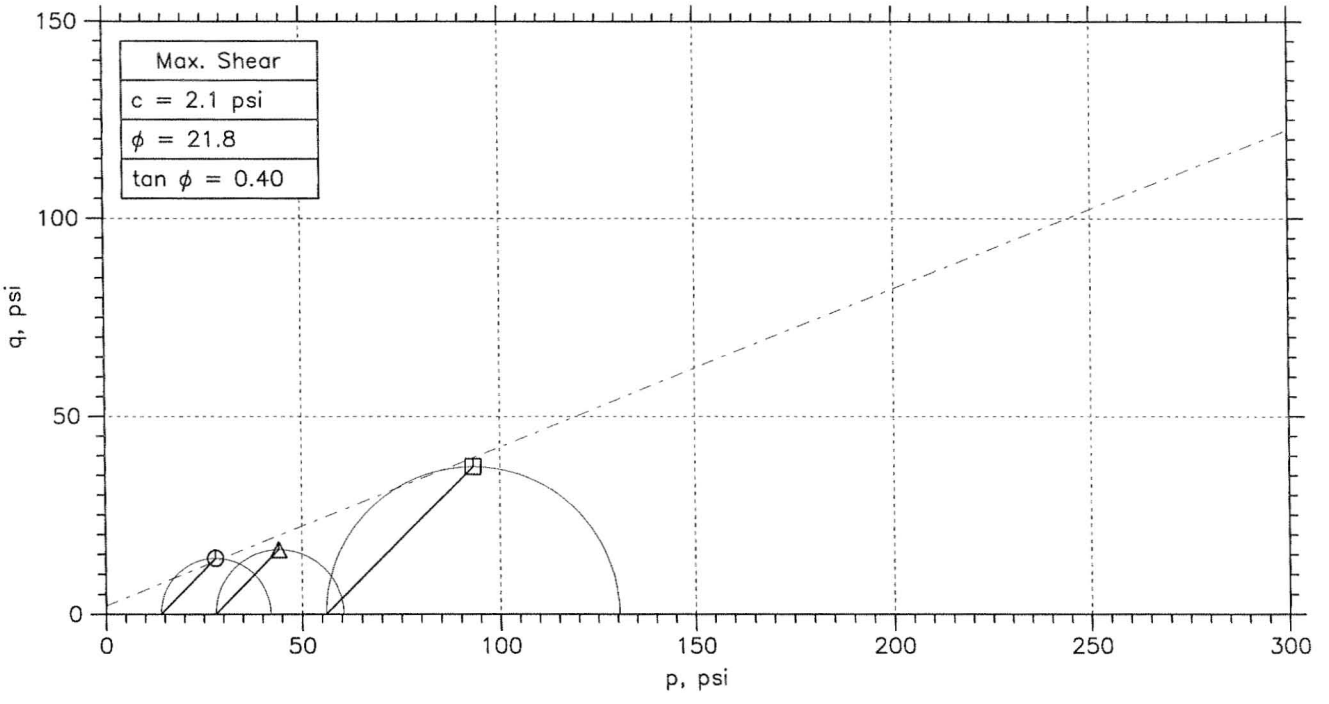
Phase calculations based on start and end of test.
* Saturation is set to 100% for phase calculations.

Mon, 30-JUL-2007 14:09:36

CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767





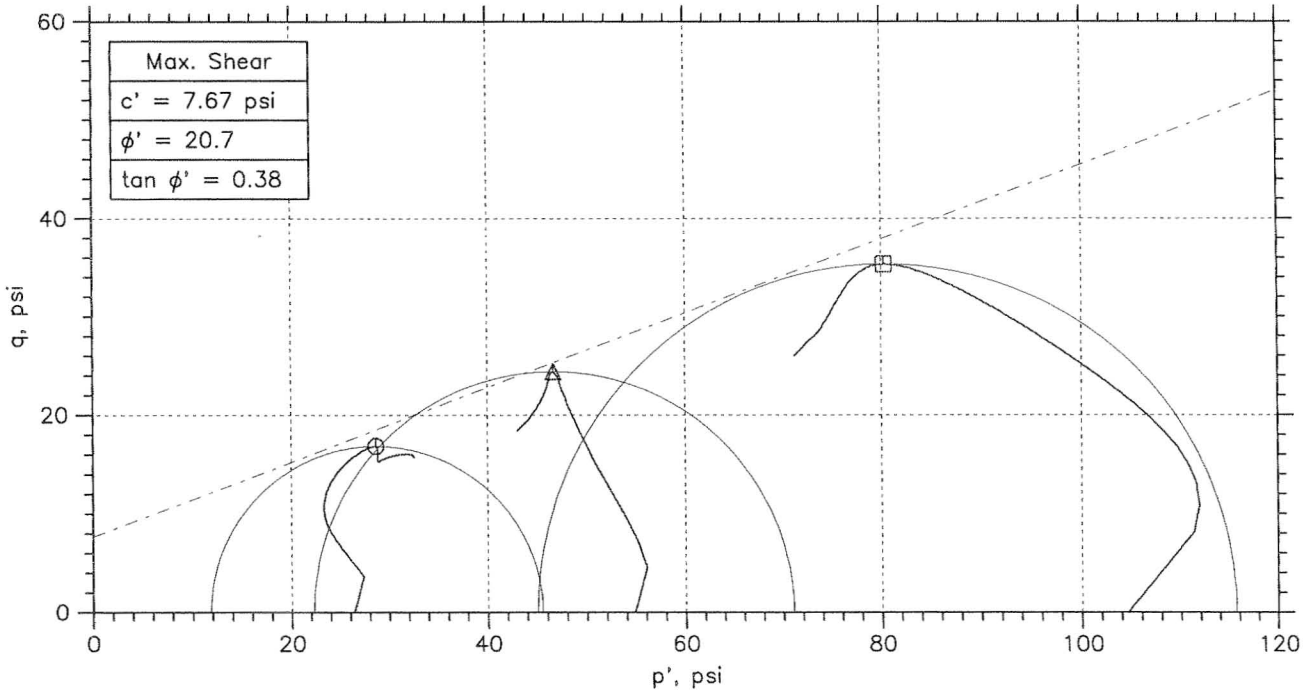


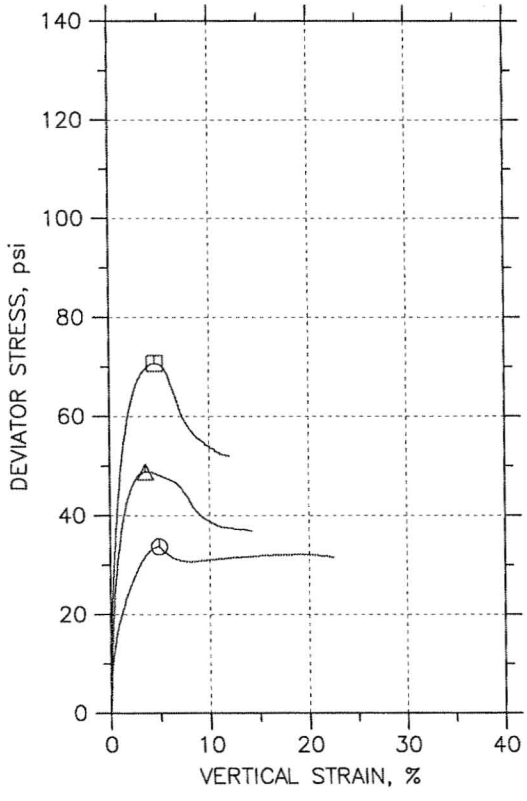
	Sample No.	Test No.	Depth	Tested By	Test Date	Checked By	Check Date	Test File
⊙	UD-1	7484.1	28.0 ft	JW	7/24/07	HJ	2/31/07	7484.1_2583.dat
△	UD-1	7484.2	28.0 ft	JW	7/24/07	HJ		7484.2_2582a.dat
⊡	UD-1	7484.3	28.0 ft	JW	7/24/07	HJ		7484.3_2581a.dat

MACTEC

Project: Votgle COL	Location: B-1133	Project No.: 6141060286
Boring No.: B-1133	Sample Type: Undisturbed	
Description: SAND, silty (SM) (Visual)		
Remarks:		

CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767

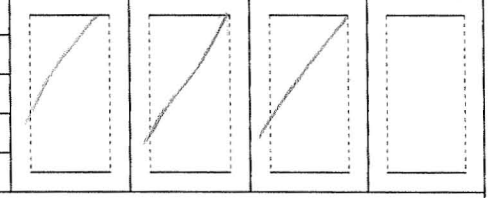




Symbol		⦶	△	⊡	
Sample No.		UD-3	UD-3	UD-3	
Test No.		7486.1	7486.2	7486.3	
Depth		38.0 ft	38.0 ft	38.0 ft	
Initial	Diameter, in	2.827	2.795	2.84	
	Height, in	5.597	5.594	5.6	
	Water Content, %	38.2	42.9	42.9	
	Dry Density, pcf	79.54	76.96	75.76	
	Saturation, %	92.1	97.4	94.6	
	Void Ratio	1.12	1.19	1.22	
Before Shear	Water Content, %	41.1	43.6	39.5	
	Dry Density, pcf	79.85	77.43	81.58	
	Saturation*, %	100.0	100.0	100.0	
	Void Ratio	1.11	1.18	1.07	
	Back Press., psi	85.99	90.	36.	
Ver. Eff. Cons. Stress, psi		28.01	56.	112.	
Shear Strength, psi		16.84	24.38	35.33	
Strain at Failure, %		4.9	3.57	4.57	
Strain Rate, %/min		0.05	0.05	0.05	
B-Value		0.96	0.96	0.92	
Estimated Specific Gravity		2.7	2.7	2.7	
Liquid Limit		0	---	---	
Plastic Limit		0	---	---	

MACTEC

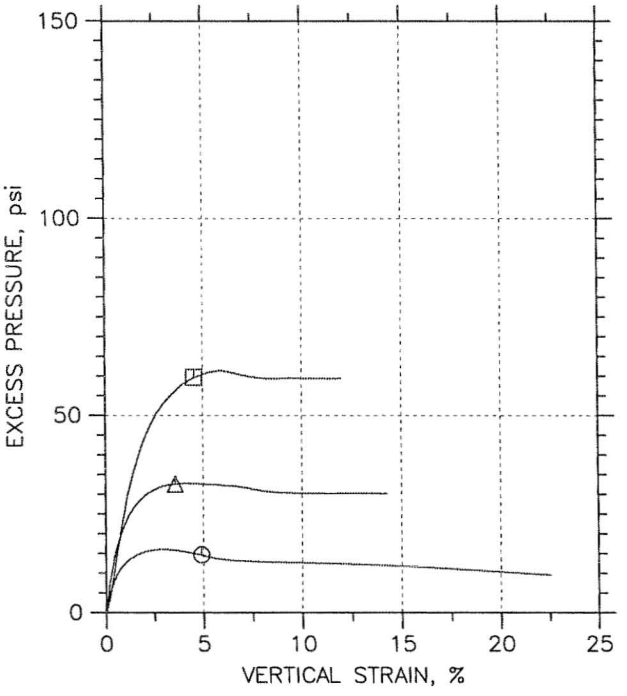
Project: Vogtle COL
Location: B-1133
Project No.: 6141060286
Boring No.: B-1133
Sample Type: Undisturbed
Description: CLAY (CL) (Visual)
Remarks:

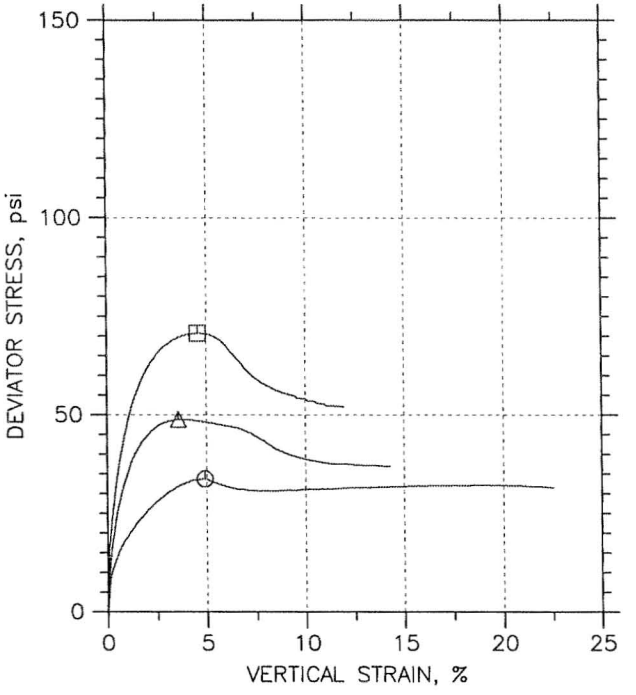


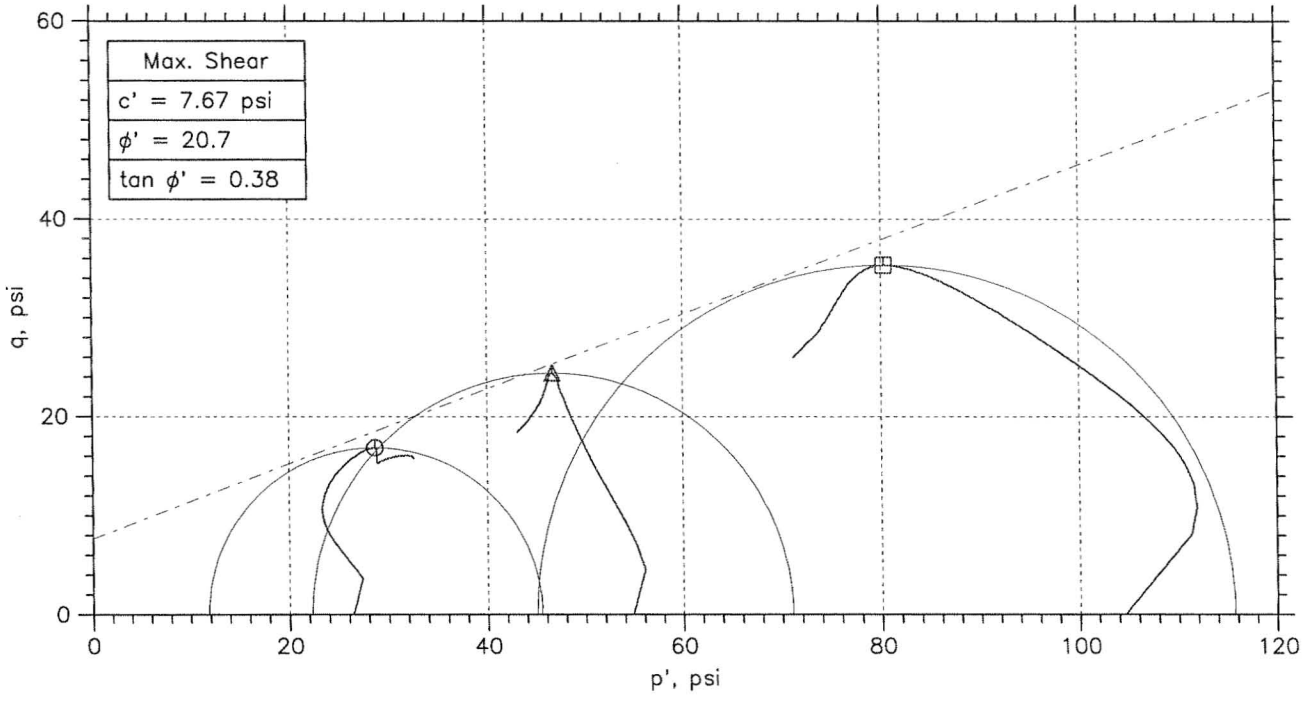
Phase calculations based on start and end of test.
* Saturation is set to 100% for phase calculations.

Mon, 30-JUL-2007 14:25:07

CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767





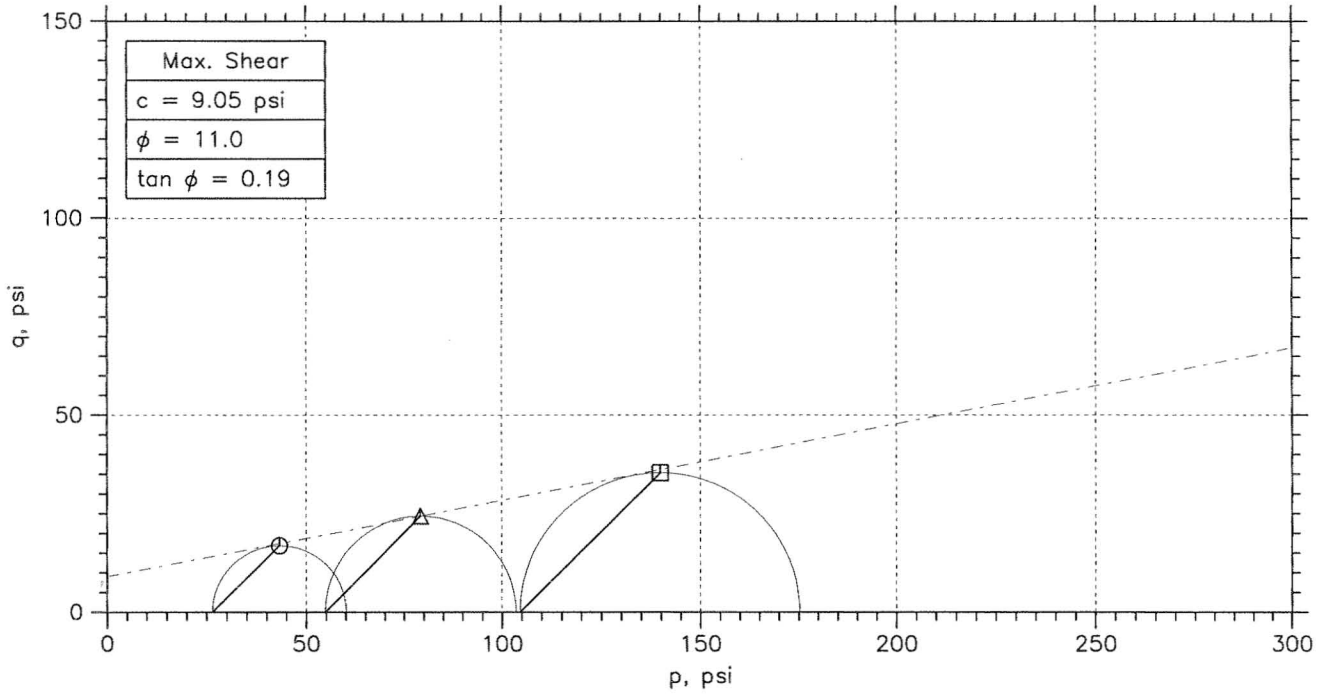


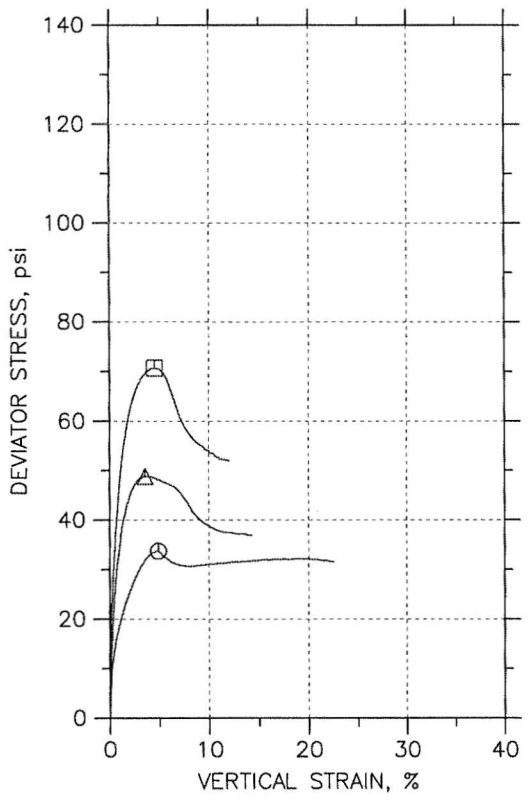
	Sample No.	Test No.	Depth	Tested By	Test Date	Checked By	Check Date	Test File
⊙	UD-3	7486.1	38.0 ft	BM	5/23/07	JW		7486.1_2547a.dat
△	UD-3	7486.2	38.0 ft	BM	5/23/07	JW	JW 7/31/07	7486.2_2545a.dat
⊡	UD-3	7486.3	38.0 ft	BM	5/23/07	JW		7486.3_2546a.dat

MACTEC

Project: Vogtle COL	Location: B-1133	Project No.: 6141060286
Boring No.: B-1133	Sample Type: Undisturbed	
Description: CLAY (CL) (Visual)		
Remarks:		

CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767





Symbol		⊙	△	⊡	
Sample No.		UD-3	UD-3	UD-3	
Test No.		7486.1	7486.2	7486.3	
Depth		38.0 ft	38.0 ft	38.0 ft	
Initial	Diameter, in	2.827	2.795	2.84	
	Height, in	5.597	5.594	5.6	
	Water Content, %	38.2	42.9	42.9	
	Dry Density, pcf	79.54	76.96	75.76	
	Saturation, %	92.1	97.4	94.6	
	Void Ratio	1.12	1.19	1.22	
Before Shear	Water Content, %	41.1	43.6	39.5	
	Dry Density, pcf	79.85	77.43	81.58	
	Saturation*, %	100.0	100.0	100.0	
	Void Ratio	1.11	1.18	1.07	
	Back Press., psi	85.99	90.	36.	
Ver. Eff. Cons. Stress, psi		28.01	56.	112.	
Shear Strength, psi		16.84	24.38	35.33	
Strain at Failure, %		4.9	3.57	4.57	
Strain Rate, %/min		0.05	0.05	0.05	
B-Value		0.96	0.96	0.92	
Estimated Specific Gravity		2.7	2.7	2.7	
Liquid Limit		0	---	---	
Plastic Limit		0	---	---	

MACTEC

Project: Vogtle COL

Location: B-1133

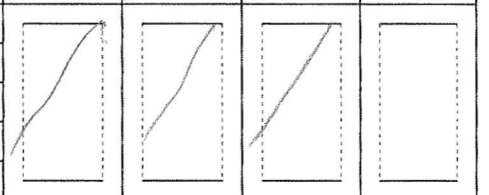
Project No.: 6141060286

Boring No.: B-1133

Sample Type: Undisturbed

Description: CLAY (CL) (Visual)

Remarks:

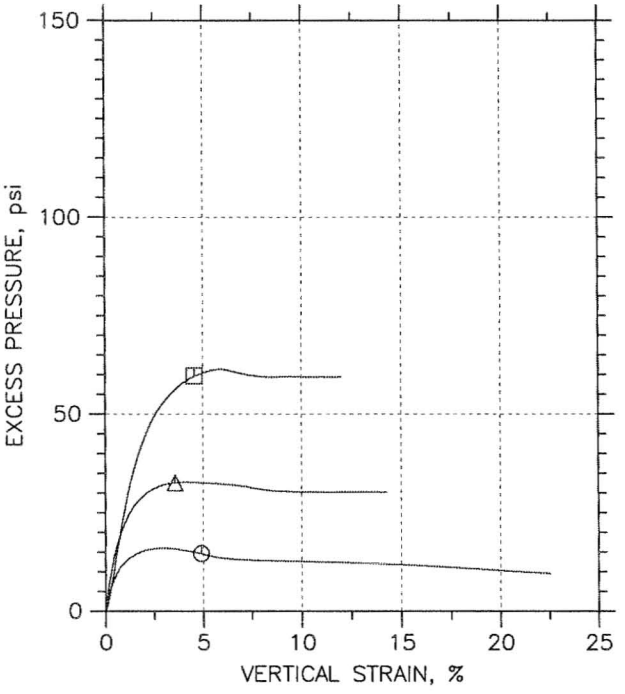


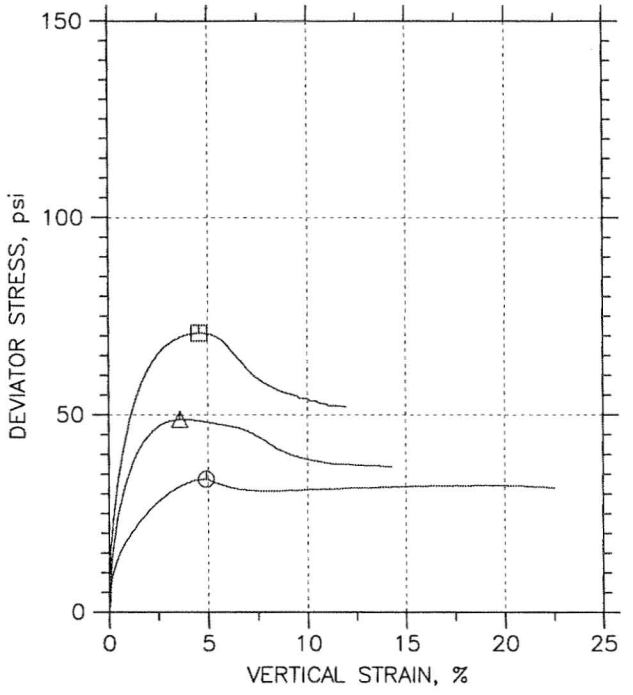
Phase calculations based on start and end of test.

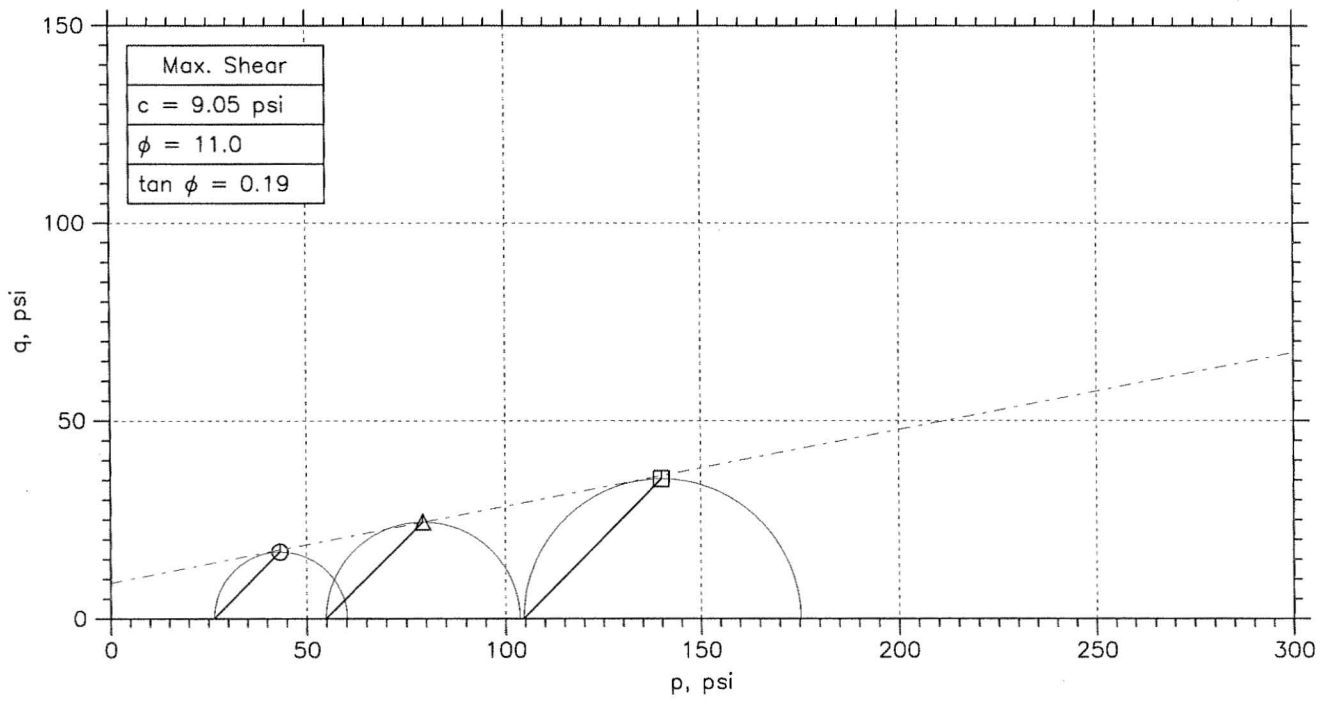
* Saturation is set to 100% for phase calculations.

Mon, 30-JUL-2007 14:25:29

CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767





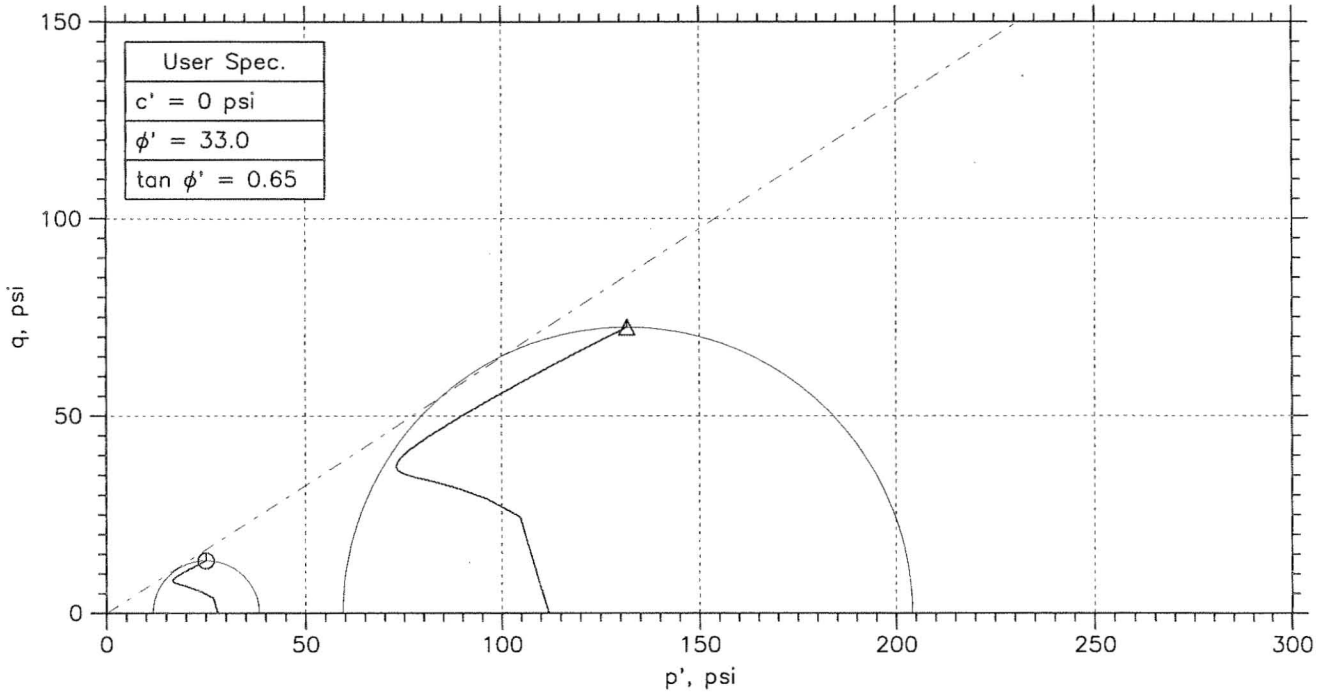


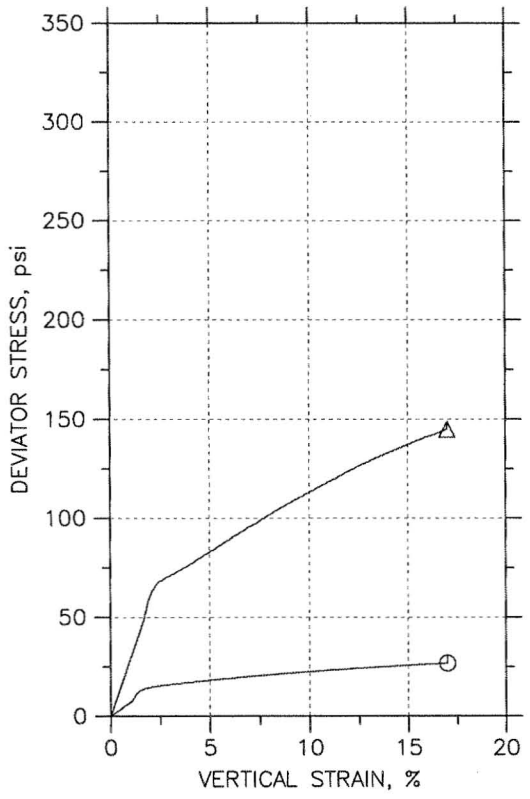
	Sample No.	Test No.	Depth	Tested By	Test Date	Checked By	Check Date	Test File
⊙	UD-3	7486.1	38.0 ft	BM	5/23/07	JW		7486.1_2547a.dat
△	UD-3	7486.2	38.0 ft	BM	5/23/07	JW	JW 7/31/07	7486.2_2545a.dat
⊡	UD-3	7486.3	38.0 ft	BM	5/23/07	JW		7486.3_2546a.dat

MACTEC

Project: Vogtle COL	Location: B-1133	Project No.: 6141060286
Boring No.: B-1133	Sample Type: Undisturbed	
Description: CLAY (CL) (Visual)		
Remarks:		

CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767





Symbol		⦶	△		
Sample No.		UD-2	UD-2		
Test No.		7487.1	7487.3		
Depth		33.5 ft	33.5 ft		
Initial	Diameter, in	2.769	2.834		
	Height, in	5.603	5.604		
	Water Content, %	20.9	18.1		
	Dry Density, pcf	95.8	104.9		
	Saturation, %	76.2	83.4		
	Void Ratio	0.727	0.577		
Before Shear	Water Content, %	21.3	17.7		
	Dry Density, pcf	105.8	112.5		
	Saturation*, %	100.0	100.0		
	Void Ratio	0.564	0.47		
	Back Press., psi	110.	86.		
Ver. Eff. Cons. Stress, psi		27.99	112.		
Shear Strength, psi		13.32	72.37		
Strain at Failure, %		17	17		
Strain Rate, %/min		0.1	0.1		
B-Value		0.92	0.97		
Estimated Specific Gravity		2.65	2.65		
Liquid Limit		---	---		
Plastic Limit		---	---		

MACTEC

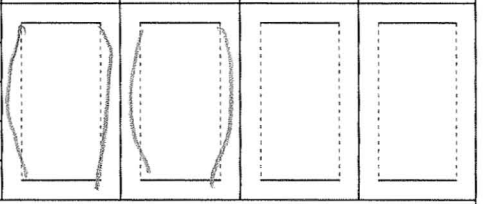
Project: Vogtle COL

Location: B-1136

Project No.: 6141060286

Boring No.: B-1136

Sample Type: Undisturbed



Description: SAND, silty, clayey (SC-SM) (Visual)

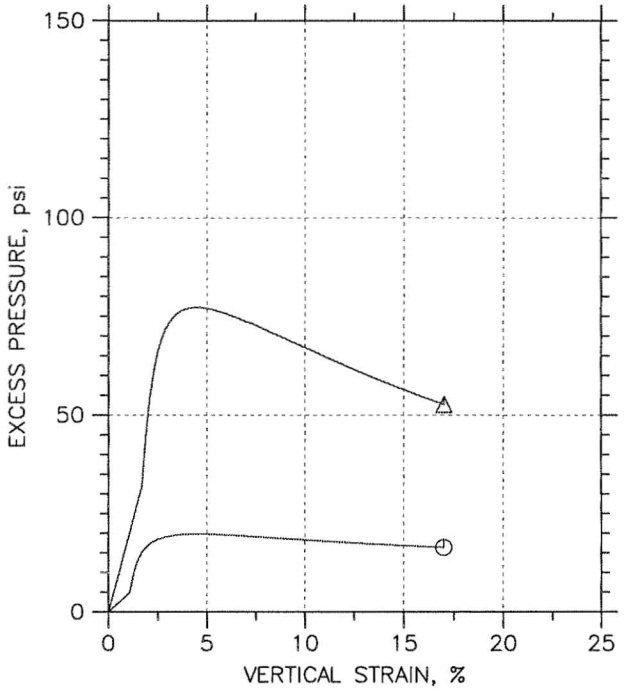
Remarks:

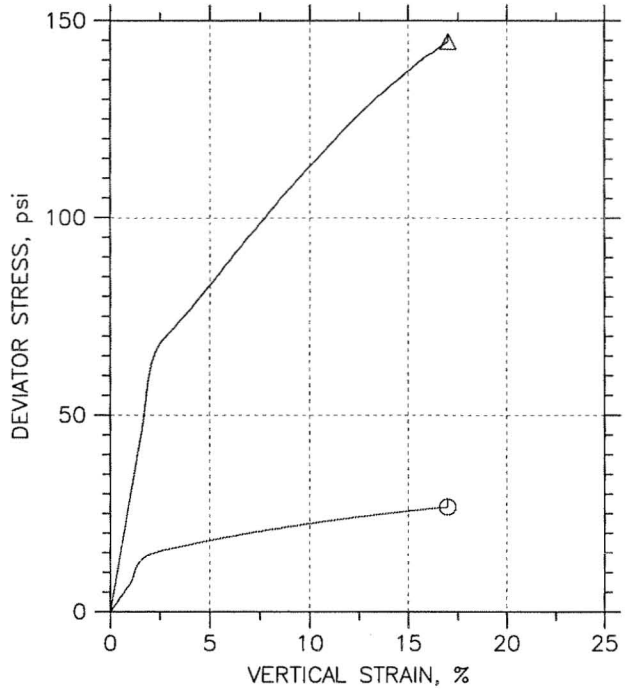
Phase calculations based on start and end of test.

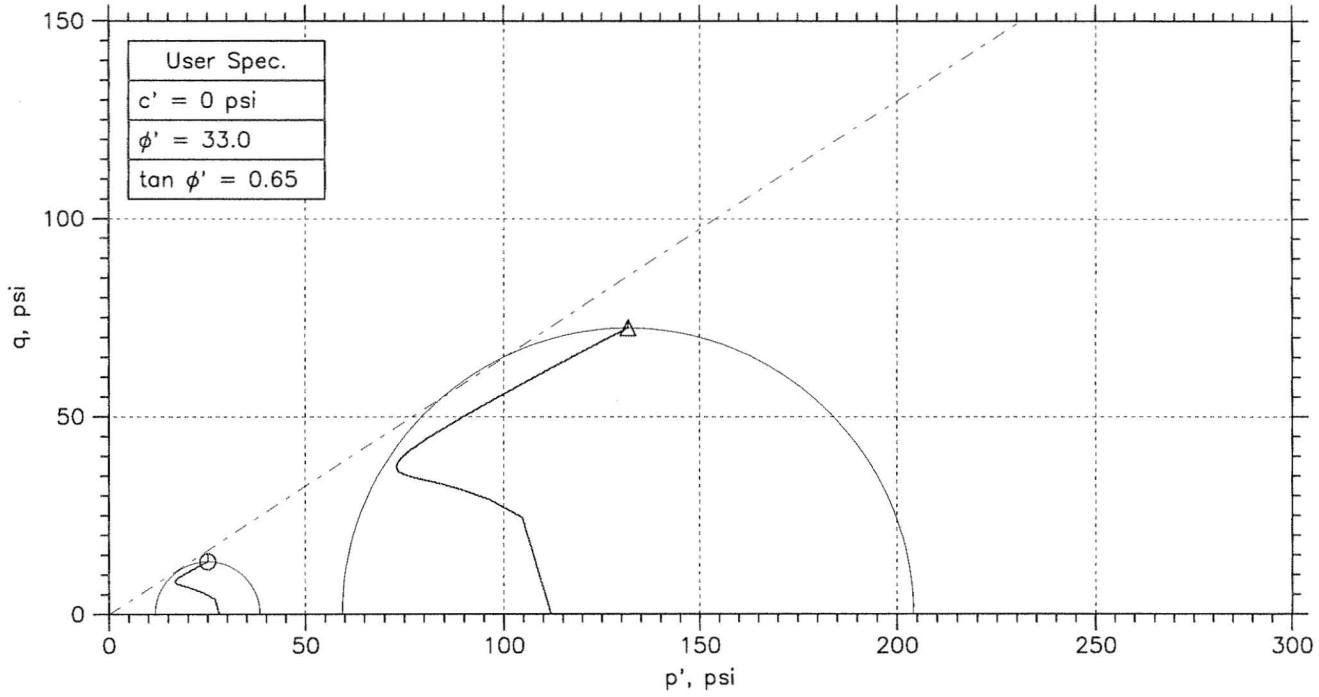
* Saturation is set to 100% for phase calculations.

Mon, 30-JUL-2007 14:39:54

CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767





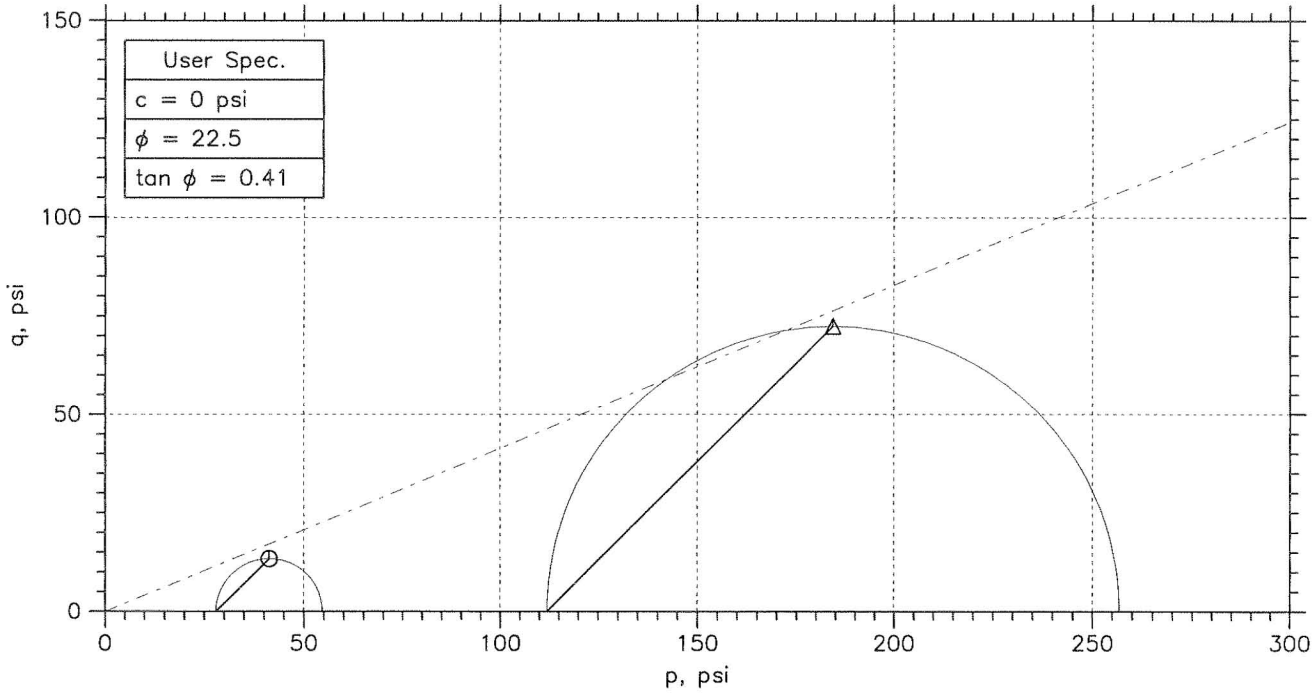


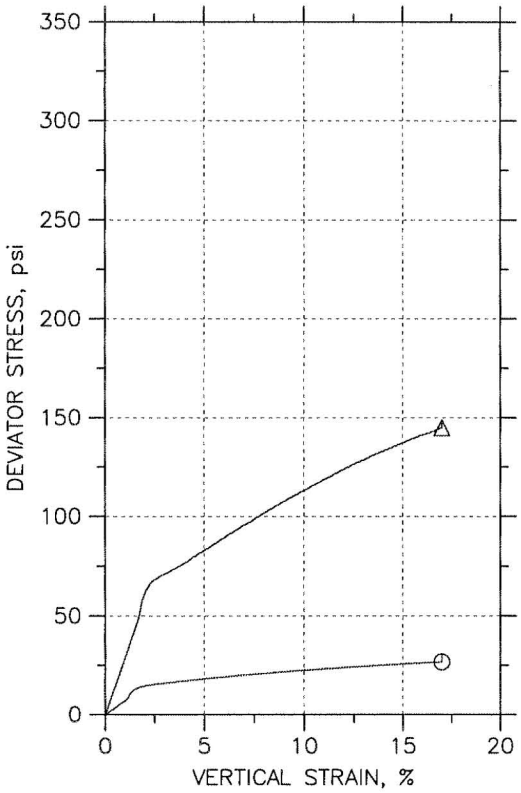
	Sample No.	Test No.	Depth	Tested By	Test Date	Checked By	Check Date	Test File
⦶	UD-2	7487.1	33.5 ft	HJ	7/18/07	JW	JW 7/31/07	7487.1_2583a.dat
△	UD-2	7487.3	33.5 ft	HJ	7/18/07	JW		7487.3_2581a.dat

MACTEC

Project: Vogtle COL	Location: B-1136	Project No.: 6141060286
Boring No.: B-1136	Sample Type: Undisturbed	
Description: SAND, silty, clayey (SC-SM) (Visual)		
Remarks:		

CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767





Symbol		⦶	△		
Sample No.		UD-2	UD-2		
Test No.		7487.1	7487.3		
Depth		33.5 ft	33.5 ft		
Initial	Diameter, in	2.769	2.834		
	Height, in	5.603	5.604		
	Water Content, %	20.9	18.1		
	Dry Density, pcf	95.8	104.9		
	Saturation, %	76.2	83.4		
	Void Ratio	0.727	0.577		
Before Shear	Water Content, %	21.3	17.7		
	Dry Density, pcf	105.8	112.5		
	Saturation*, %	100.0	100.0		
	Void Ratio	0.564	0.47		
	Back Press., psi	110.	86.		
Ver. Eff. Cons. Stress, psi		27.99	112.		
Shear Strength, psi		13.32	72.37		
Strain at Failure, %		17	17		
Strain Rate, %/min		0.1	0.1		
B-Value		0.92	0.97		
Estimated Specific Gravity		2.65	2.65		
Liquid Limit		---	---		
Plastic Limit		---	---		

MACTEC

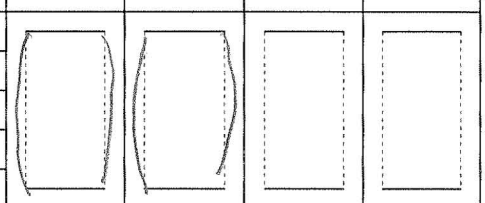
Project: Vogtle COL

Location: B-1136

Project No.: 6141060286

Boring No.: B-1136

Sample Type: Undisturbed



Description: SAND, silty, clayey (SC-SM) (Visual)

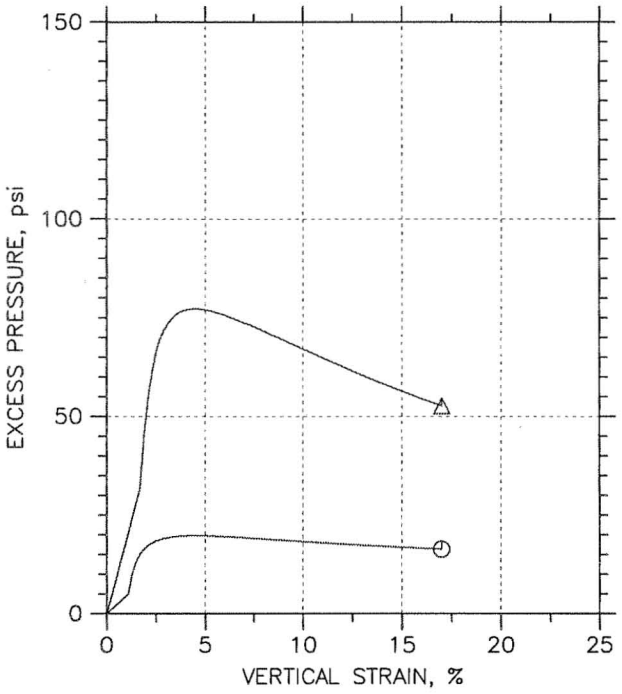
Remarks:

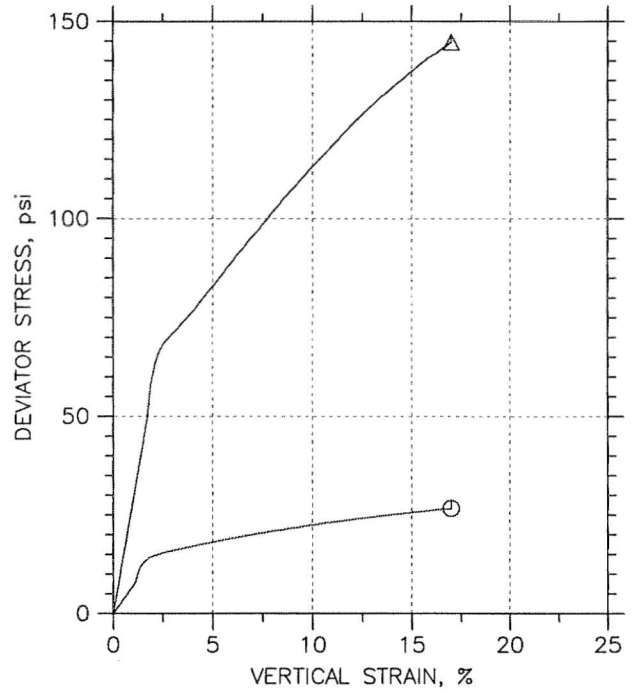
Phase calculations based on start and end of test.

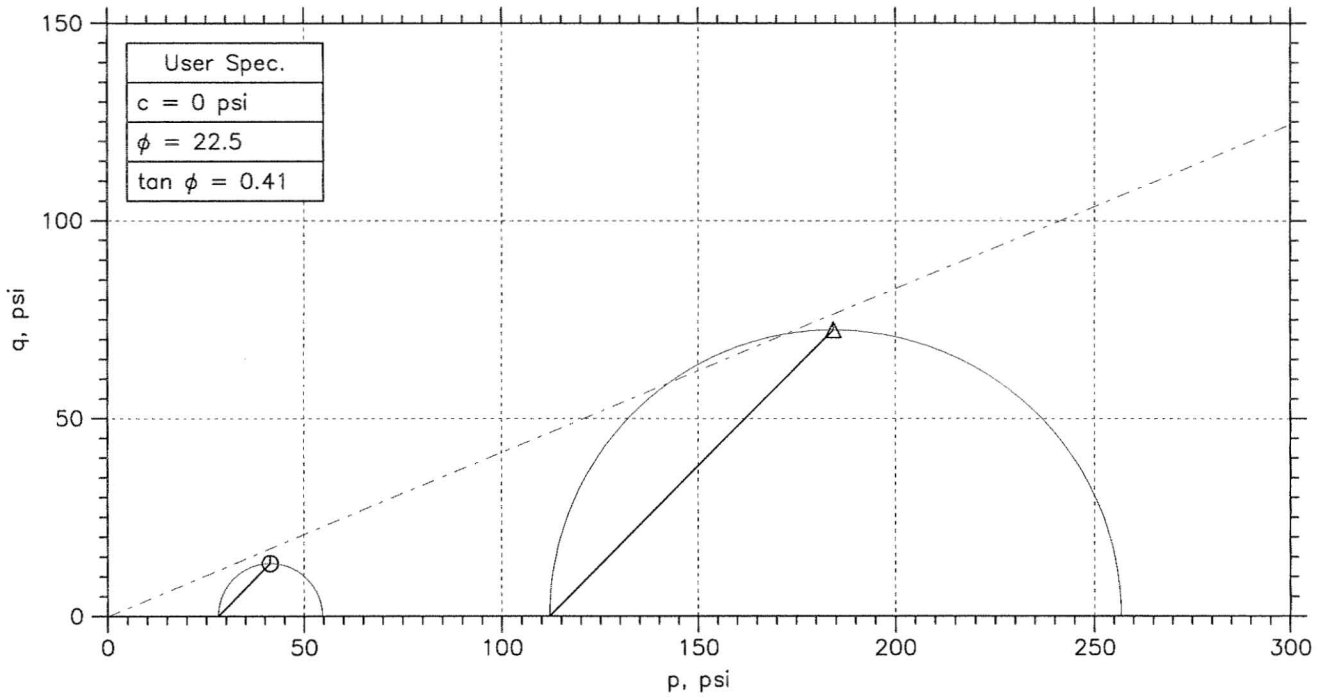
* Saturation is set to 100% for phase calculations.

Mon, 30-JUL-2007 14:40:31

CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767





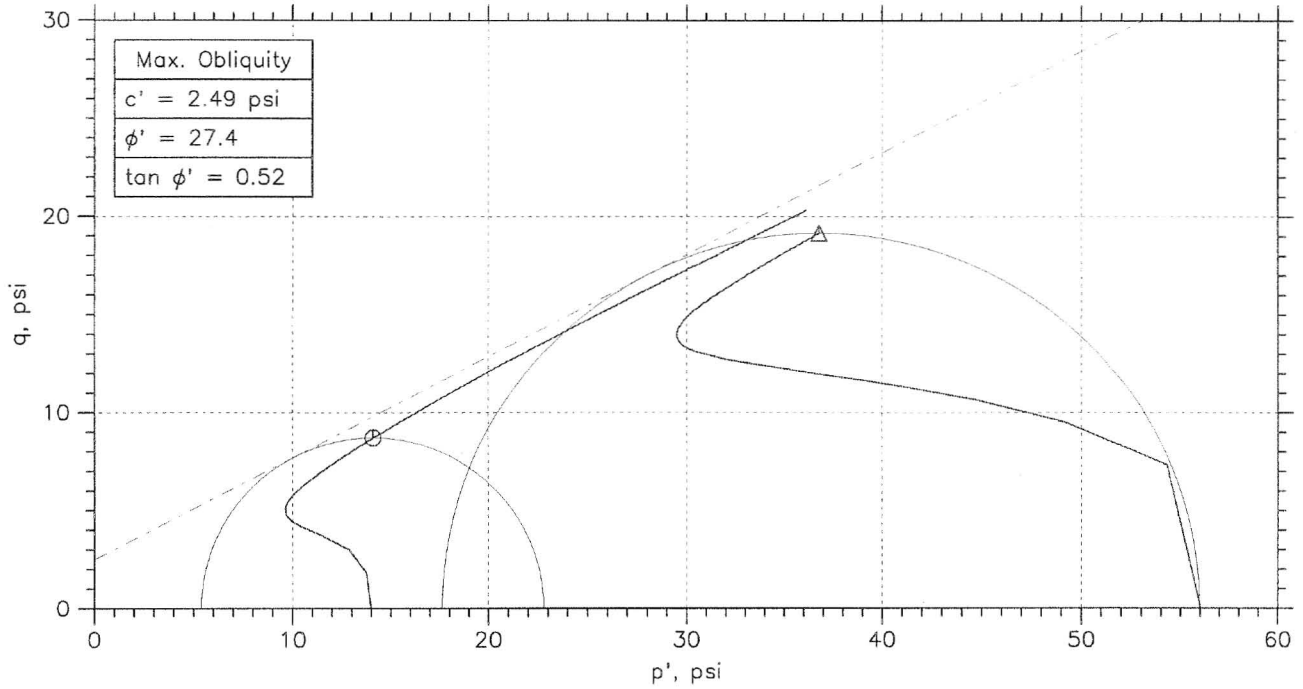


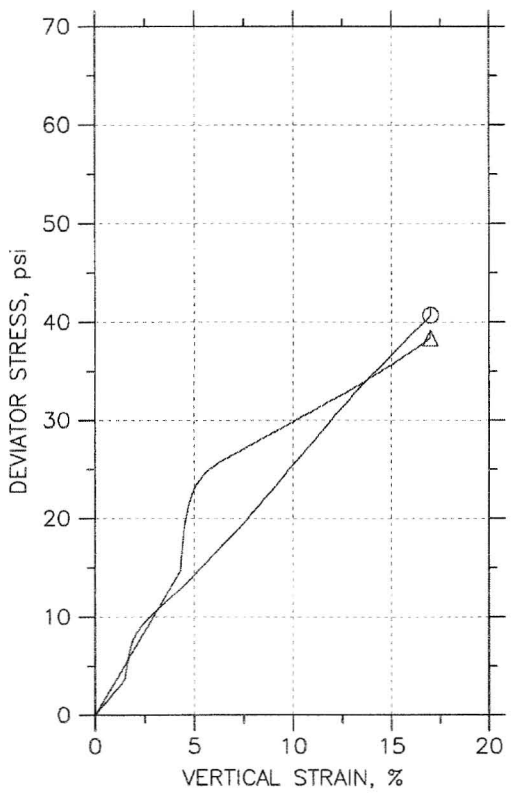
	Sample No.	Test No.	Depth	Tested By	Test Date	Checked By	Check Date	Test File
⊘	UD-2	7487.1	33.5 ft	HJ	7/18/07	JW	SW 7/31/07	7487.1_2583a.dat
△	UD-2	7487.3	33.5 ft	HJ	7/18/07	JW		7487.3_2581a.dat

MACTEC

Project: Vogtle COL	Location: B-1136	Project No.: 6141060286
Boring No.: B-1136	Sample Type: Undisturbed	
Description: SAND, silty, clayey (SC-SM) (Visual)		
Remarks:		

CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767

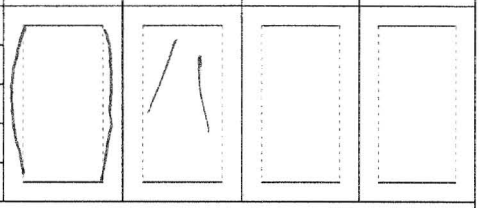




Symbol		⦶	△		
Sample No.		UD-2	UD-2		
Test No.		7491.1	7491.3		
Depth		33.5 ft	33.5 ft		
Initial	Diameter, in	2.853	2.867		
	Height, in	5.623	5.489		
	Water Content, %	19.3	25.0		
	Dry Density, pcf	106.3	88.71		
	Saturation, %	92.1	76.7		
	Void Ratio	0.556	0.865		
Before Shear	Water Content, %	19.3	21.3		
	Dry Density, pcf	109.4	105.8		
	Saturation*, %	100.0	100.0		
	Void Ratio	0.513	0.564		
	Back Press., psi	108.	118.		
Ver. Eff. Cons. Stress, psi		14.	56.01		
Shear Strength, psi		20.33	19.18		
Strain at Failure, %		17	17		
Strain Rate, %/min		0.1	0.1		
B-Value		0.98	0.97		
Estimated Specific Gravity		2.65	2.65		
Liquid Limit		---	---		
Plastic Limit		---	---		

MACTEC

Project: Vogtle COL
Location: B-1139
Project No.: 6141060286
Boring No.: B-1139
Sample Type: Undisturbed



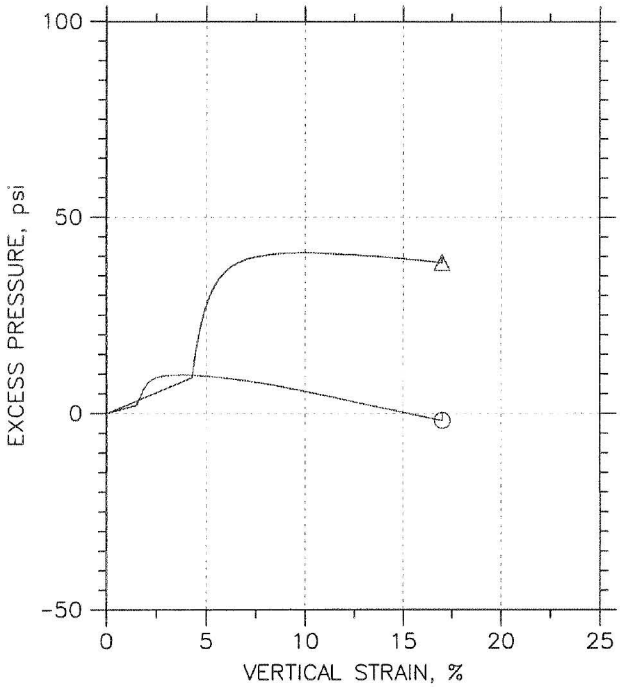
Description: SAND, clayey (SC)
Remarks:

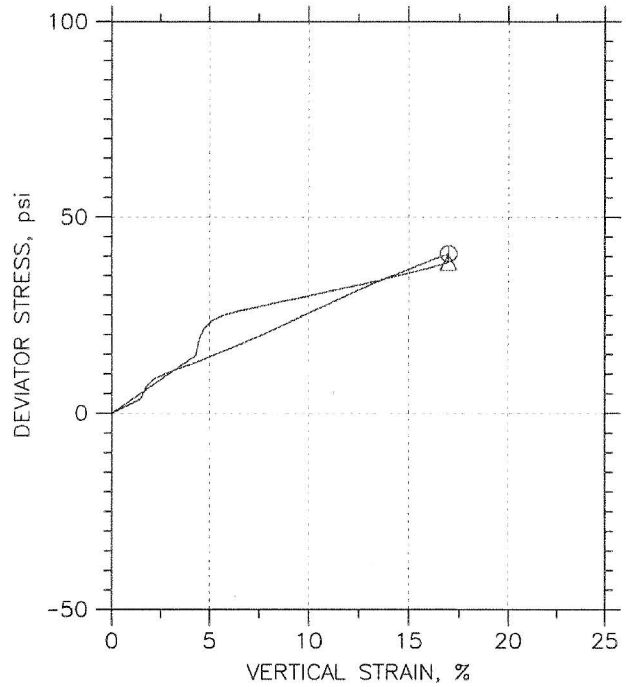
Phase calculations based on start of test.

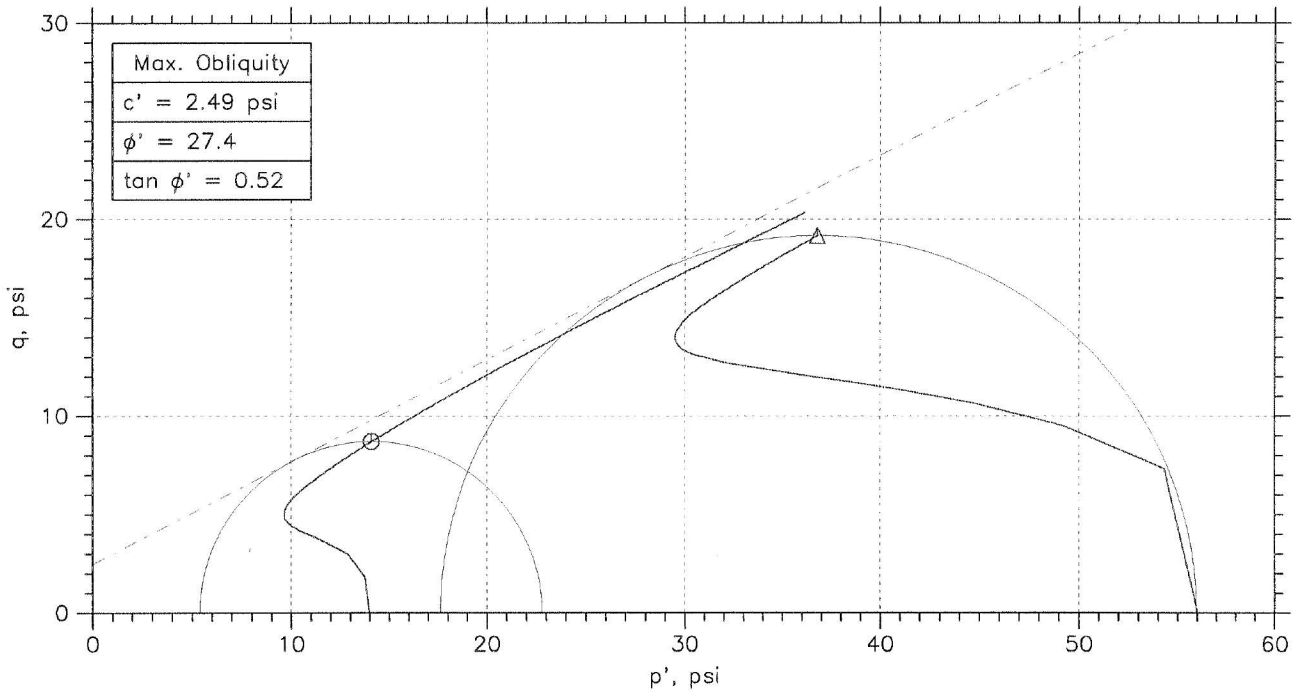
* Saturation is set to 100% for phase calculations.

Thu, 27-SEP-2007 14:17:49

CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767







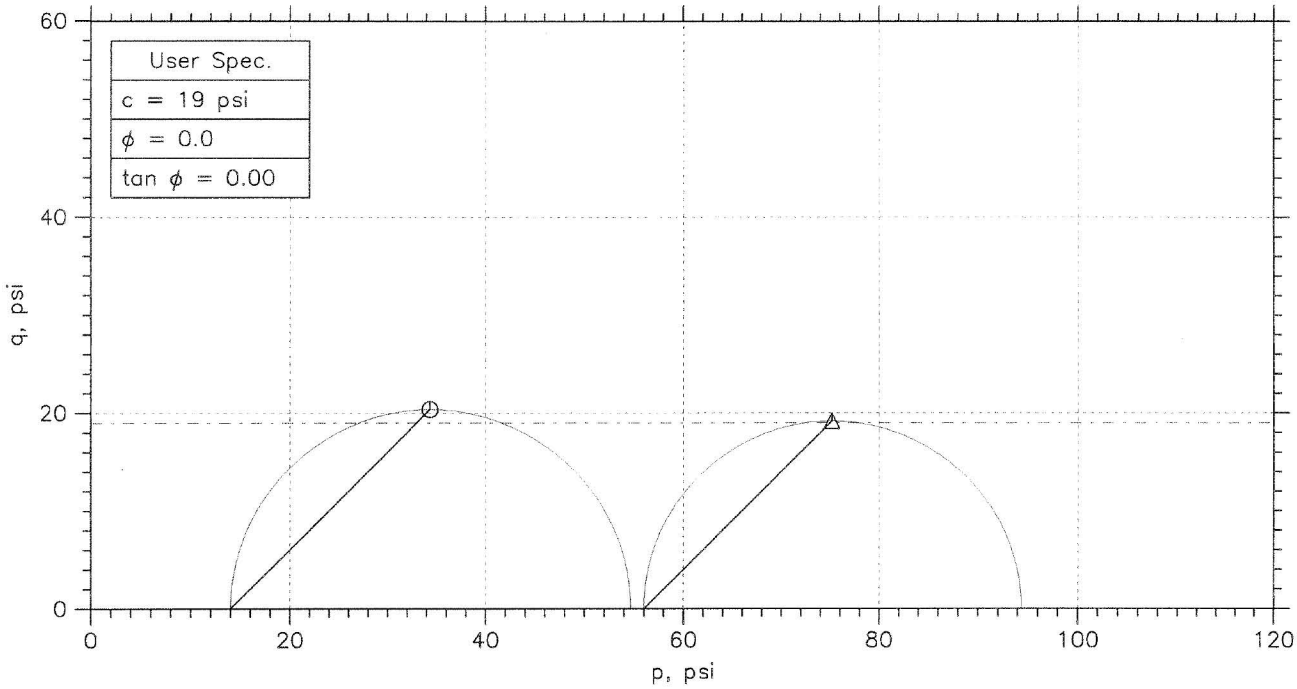
	Sample No.	Test No.	Depth	Tested By	Test Date	Checked By	Check Date	Test File
⊙	UD-2	7491.1	33.5 ft	HJ	7/28/07	JW		7491.1_2583a.dat
△	UD-2	7491.3	33.5 ft	HJ	7/29/07	JW		7491.3_2581a.dat

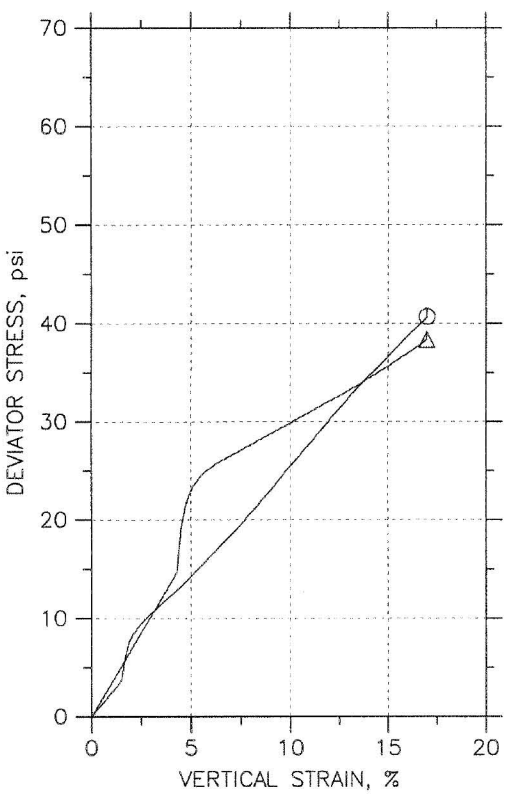
MACTEC

Project: Vogtle COL	Location: B-1139	Project No.: 6141060286
Boring No.: B-1139	Sample Type: Undisturbed	
Description: SAND, clayey (SC)		
Remarks:		

Thu, 27-SEP-2007 14:17:49

CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767

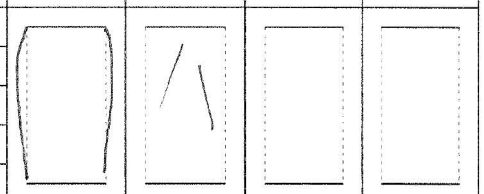




Symbol		⦶	△		
Sample No.		UD-2	UD-2		
Test No.		7491.1	7491.3		
Depth		33.5 ft	33.5 ft		
Initial	Diameter, in	2.853	2.867		
	Height, in	5.623	5.489		
	Water Content, %	19.3	25.0		
	Dry Density, pcf	106.3	88.71		
	Saturation, %	92.1	76.7		
	Void Ratio	0.556	0.865		
Before Shear	Water Content, %	19.3	21.3		
	Dry Density, pcf	109.4	105.8		
	Saturation*, %	100.0	100.0		
	Void Ratio	0.513	0.564		
	Back Press., psi	108.	118.		
Ver. Eff. Cons. Stress, psi		14.	56.01		
Shear Strength, psi		20.33	19.18		
Strain at Failure, %		17	17		
Strain Rate, %/min		0.1	0.1		
B-Value		0.98	0.97		
Estimated Specific Gravity		2.65	2.65		
Liquid Limit		---	---		
Plastic Limit		---	---		

MACTEC

Project: Vogtle COL
Location: B-1139
Project No.: 6141060286
Boring No.: B-1139
Sample Type: Undisturbed



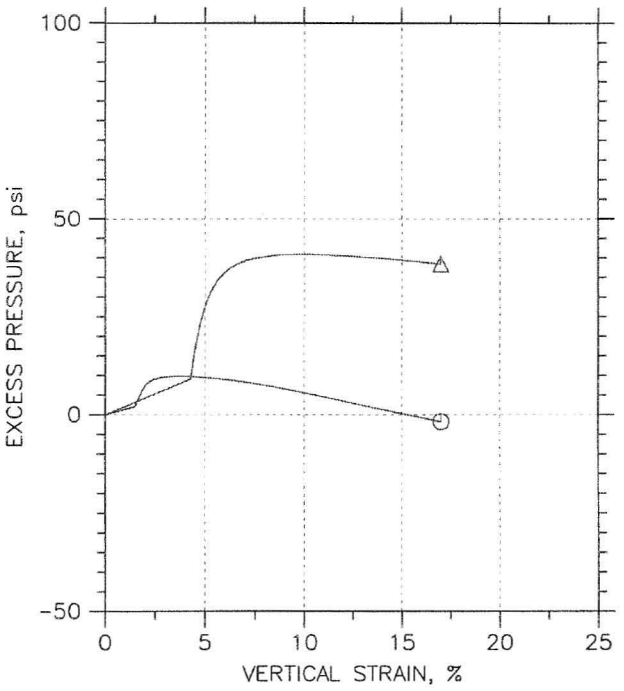
Description: SAND, clayey (SC)
Remarks:

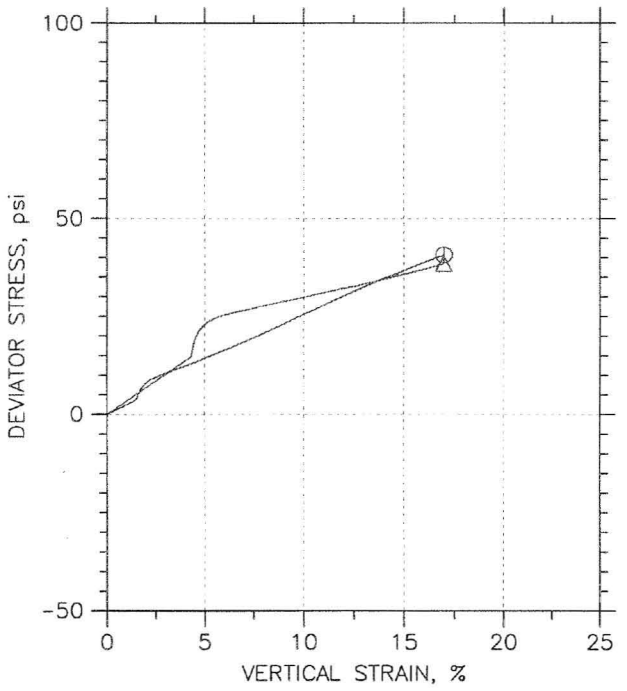
Phase calculations based on start of test.

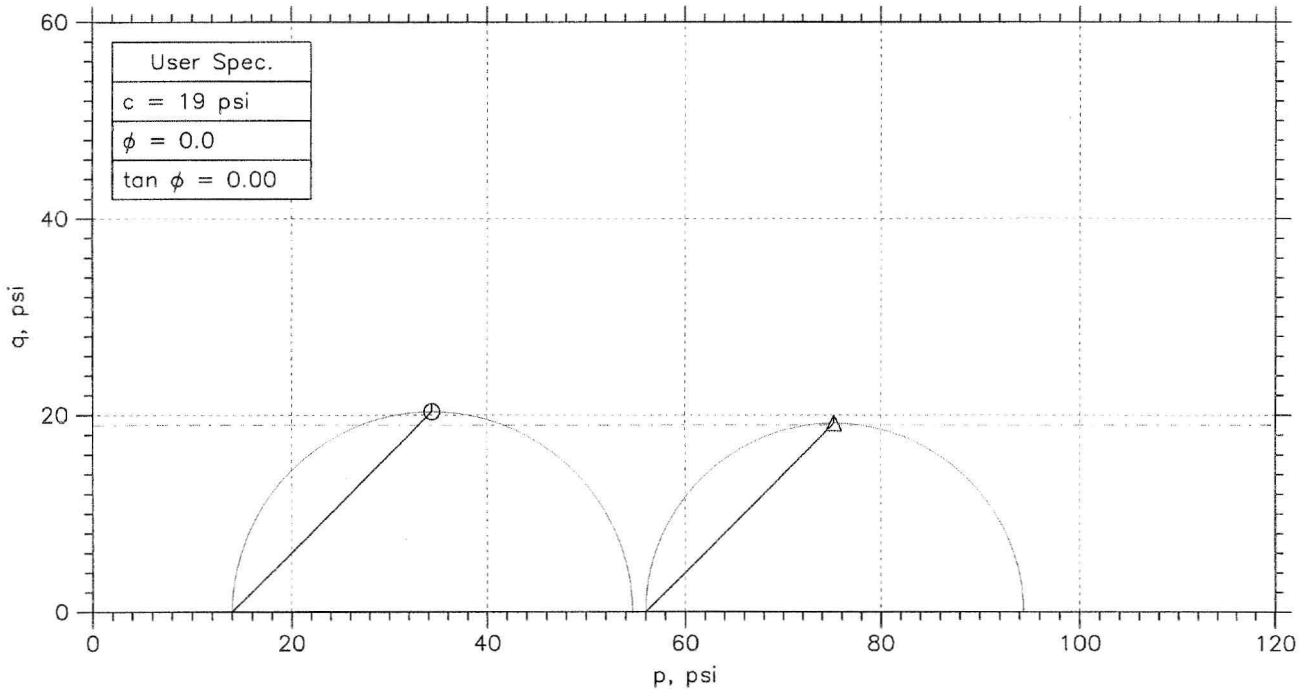
* Saturation is set to 100% for phase calculations.

Thu, 27-SEP-2007 14:18:35

CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767







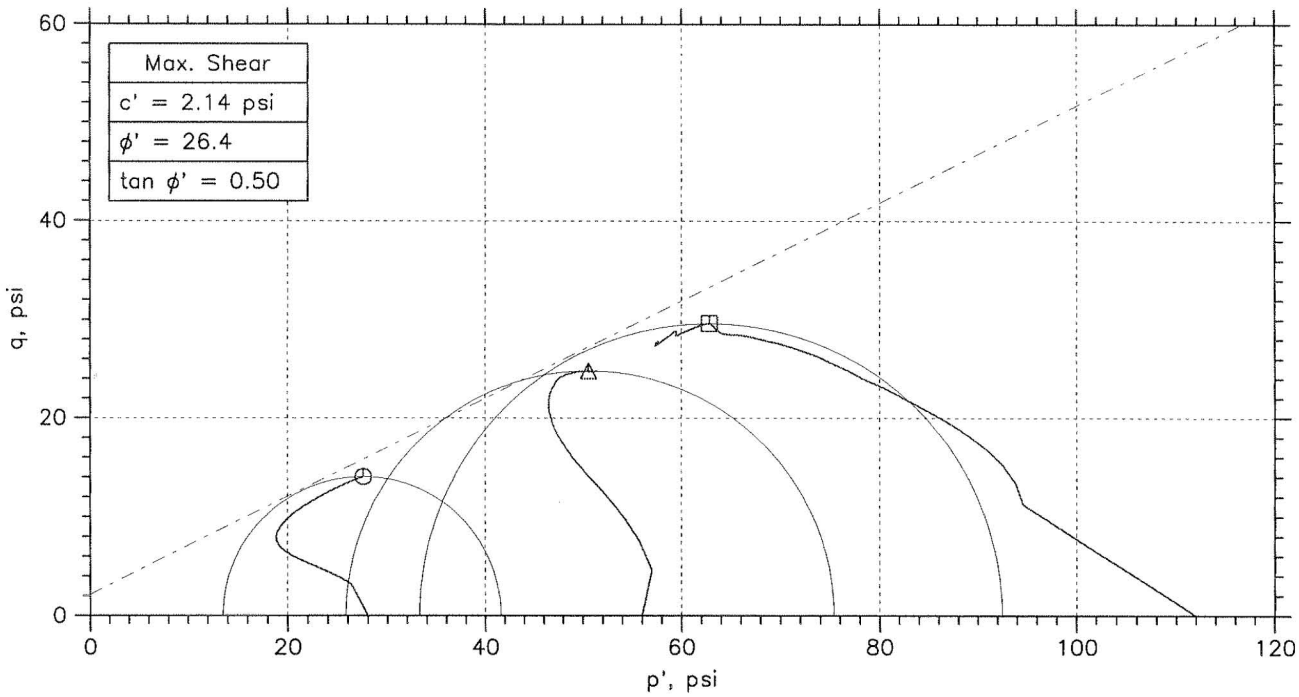
	Sample No.	Test No.	Depth	Tested By	Test Date	Checked By	Check Date	Test File
⦶	UD-2	7491.1	33.5 ft	HJ	7/28/07	JW		7491.1_2583a.dat
△	UD-2	7491.3	33.5 ft	HJ	7/29/07	JW		7491.3_2581a.dat

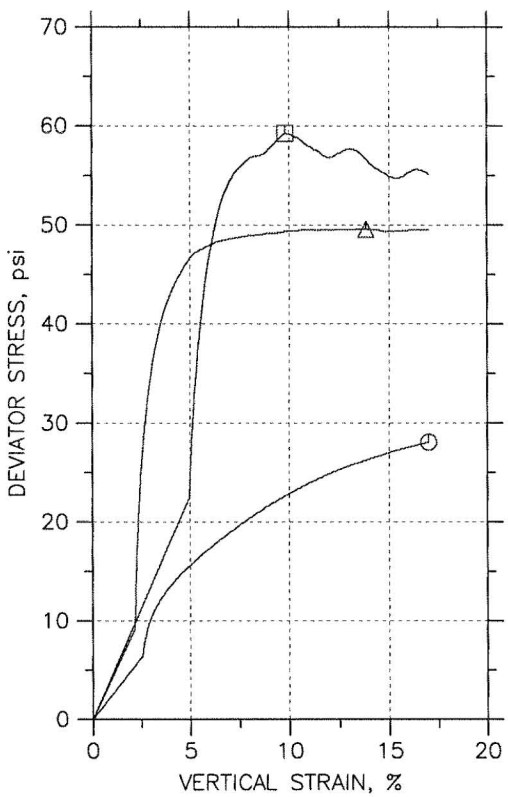
MACTEC

Project: Vogtle COL	Location: B-1139	Project No.: 6141060286
Boring No.: B-1139	Sample Type: Undisturbed	
Description: SAND, clayey (SC)		
Remarks:		

Thu, 27-SEP-2007 14:18:36

CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767

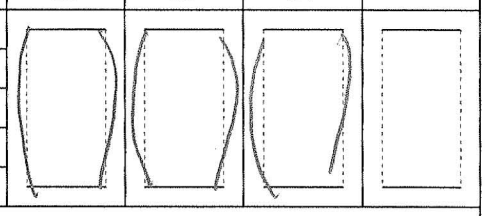




Symbol		⌀	△	⊔	
Sample No.		UD-2	UD-2	UD-2	
Test No.		7631.1	7631.2	7631.3	
Depth		38.0 ft	38.0 ft	38.0 ft	
Initial	Diameter, in	2.774	2.871	2.845	
	Height, in	6.002	6.001	6	
	Water Content, %	25.5	25.4	34.2	
	Dry Density, pcf	88.19	91.27	82.74	
	Saturation, %	77.2	82.8	90.6	
	Void Ratio	0.876	0.813	0.999	
Before Shear	Water Content, %	28.1	28.8	31.1	
	Dry Density, pcf	94.83	93.77	90.63	
	Saturation*, %	100.0	100.0	100.0	
	Void Ratio	0.744	0.764	0.825	
	Back Press., psi	91.93	83.	38.01	
Ver. Eff. Cons. Stress, psi		28.01	55.99	112.	
Shear Strength, psi		14.03	24.78	29.61	
Strain at Failure, %		17	13.8	9.82	
Strain Rate, %/min		0.05	0.05	0.05	
B-Value		0.96	0.96	0.95	
Estimated Specific Gravity		2.65	2.65	2.65	
Liquid Limit		70	70	70	
Plastic Limit		27	27	27	

MACTEC

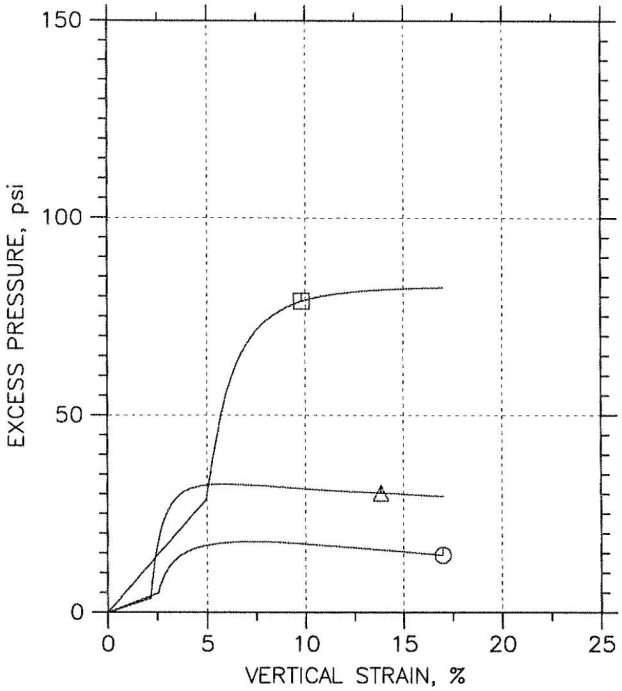
Project: Vogtle COL
Location: B-1164
Project No.: 6141060286
Boring No.: B-1164
Sample Type: Undisturbed
Description: SAND, clayey (SC)
Remarks:

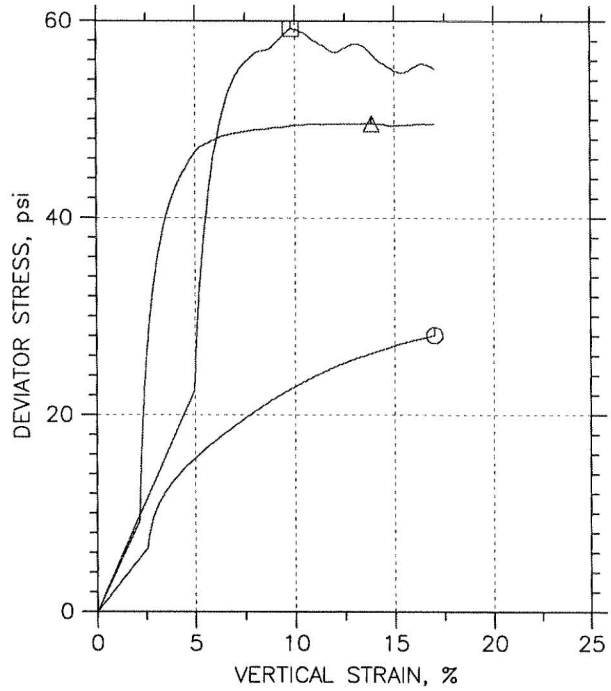


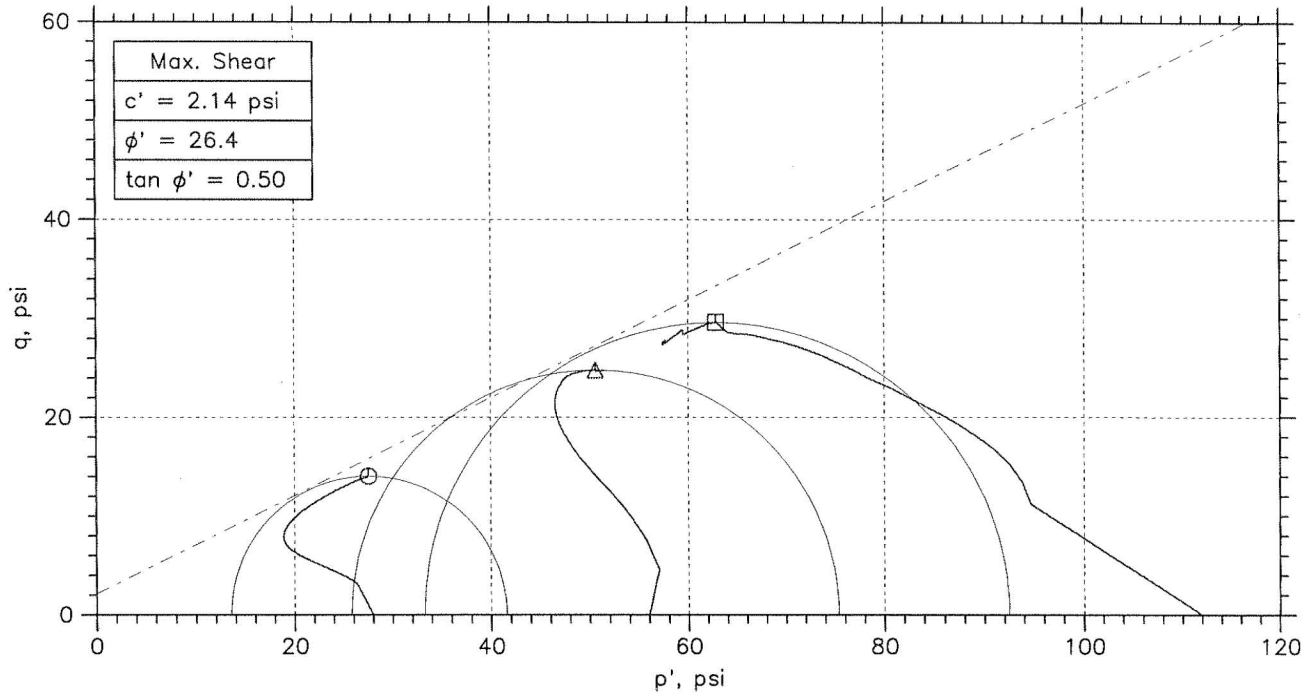
Phase calculations based on start and end of test.
* Saturation is set to 100% for phase calculations.

Tue, 31-JUL-2007 14:07:48

CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767





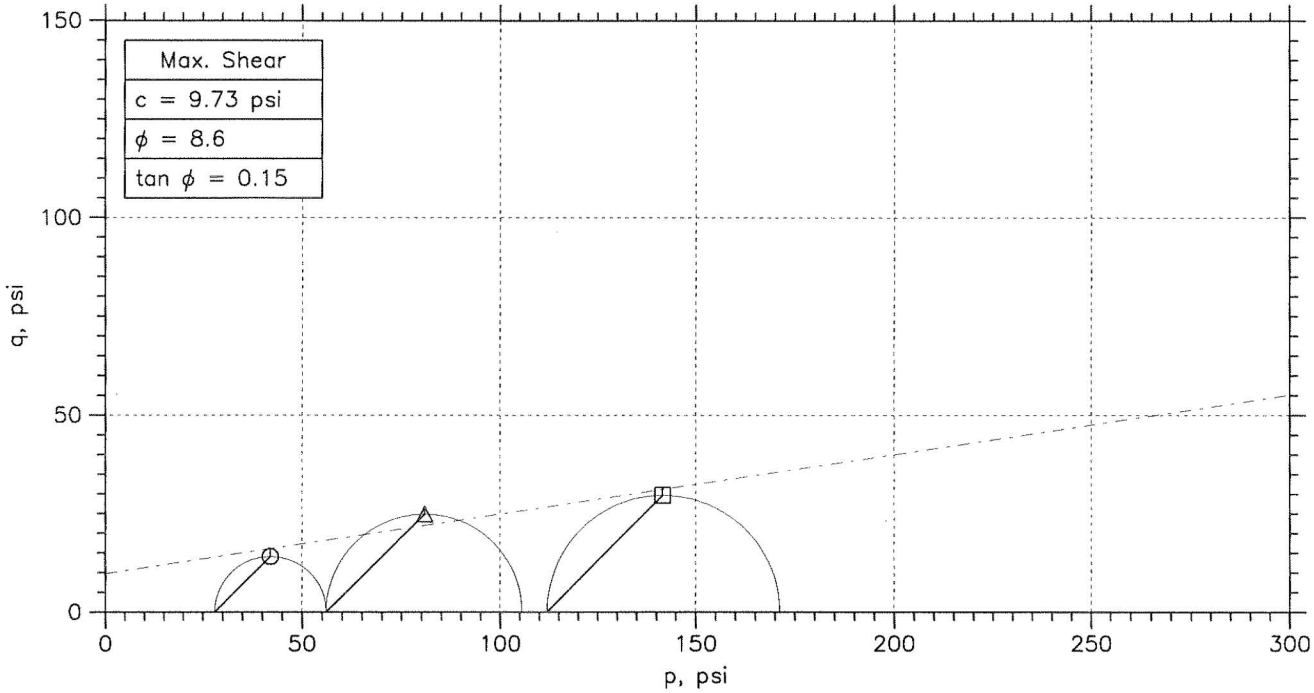


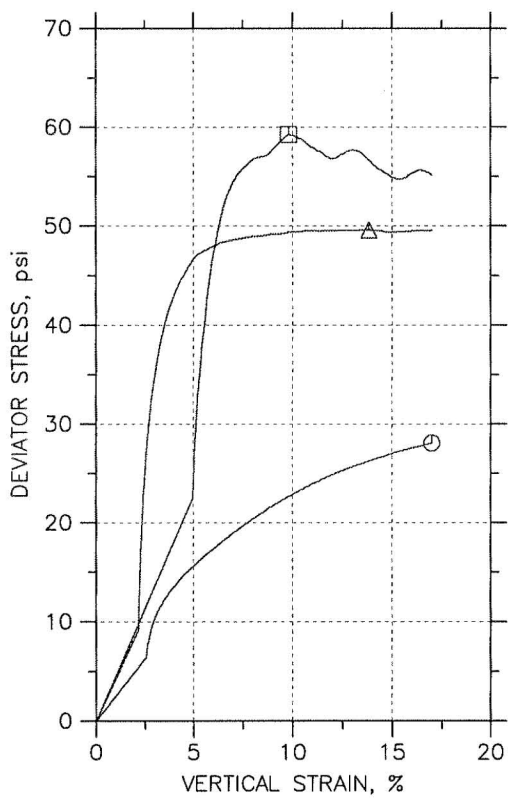
	Sample No.	Test No.	Depth	Tested By	Test Date	Checked By	Check Date	Test File
⊙	UD-2	7631.1	38.0 ft	HJ	6/27/07	JW		7631.1_2545a.dat
△	UD-2	7631.2	38.0 ft	HJ	6/27/07	JW	JW 7/31/07	7631.2_2547a.dat
⊡	UD-2	7631.3	38.0 ft	HJ	6/27/07	JW		7631.3_2546a.dat

MACTEC

Project: Vogtle COL	Location: B-1164	Project No.: 6141060286
Boring No.: B-1164	Sample Type: Undisturbed	
Description: SAND, clayey (SC)		
Remarks:		

CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767

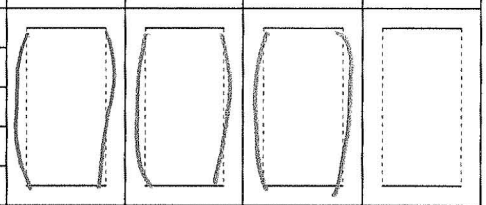




Symbol		⏲	△	⊡	
Sample No.		UD-2	UD-2	UD-2	
Test No.		7631.1	7631.2	7631.3	
Depth		38.0 ft	38.0 ft	38.0 ft	
Initial	Diameter, in	2.774	2.871	2.845	
	Height, in	6.002	6.001	6	
	Water Content, %	25.5	25.4	34.2	
	Dry Density, pcf	88.19	91.27	82.74	
	Saturation, %	77.2	82.8	90.6	
	Void Ratio	0.876	0.813	0.999	
Before Shear	Water Content, %	28.1	28.8	31.1	
	Dry Density, pcf	94.83	93.77	90.63	
	Saturation*, %	100.0	100.0	100.0	
	Void Ratio	0.744	0.764	0.825	
	Back Press., psi	91.93	83.	38.01	
Ver. Eff. Cons. Stress, psi		28.01	55.99	112.	
Shear Strength, psi		14.03	24.78	29.61	
Strain at Failure, %		17	13.8	9.82	
Strain Rate, %/min		0.05	0.05	0.05	
B-Value		0.96	0.96	0.95	
Estimated Specific Gravity		2.65	2.65	2.65	
Liquid Limit		70	70	70	
Plastic Limit		27	27	27	

MACTEC

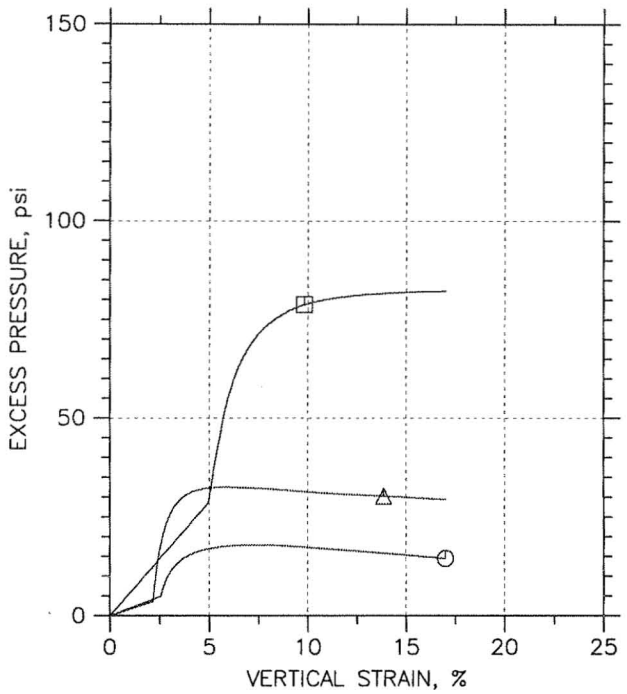
Project: Vogtle COL
Location: B-1164
Project No.: 6141060286
Boring No.: B-1164
Sample Type: Undisturbed
Description: SAND, clayey (SC)
Remarks:

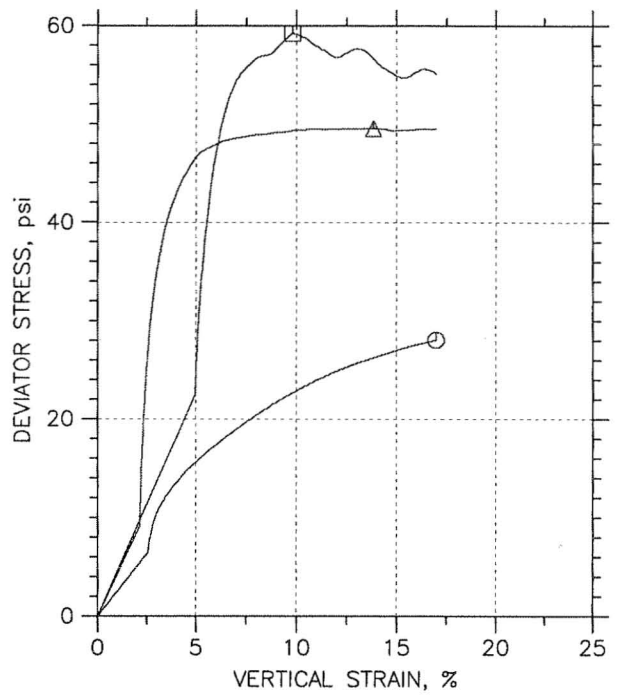


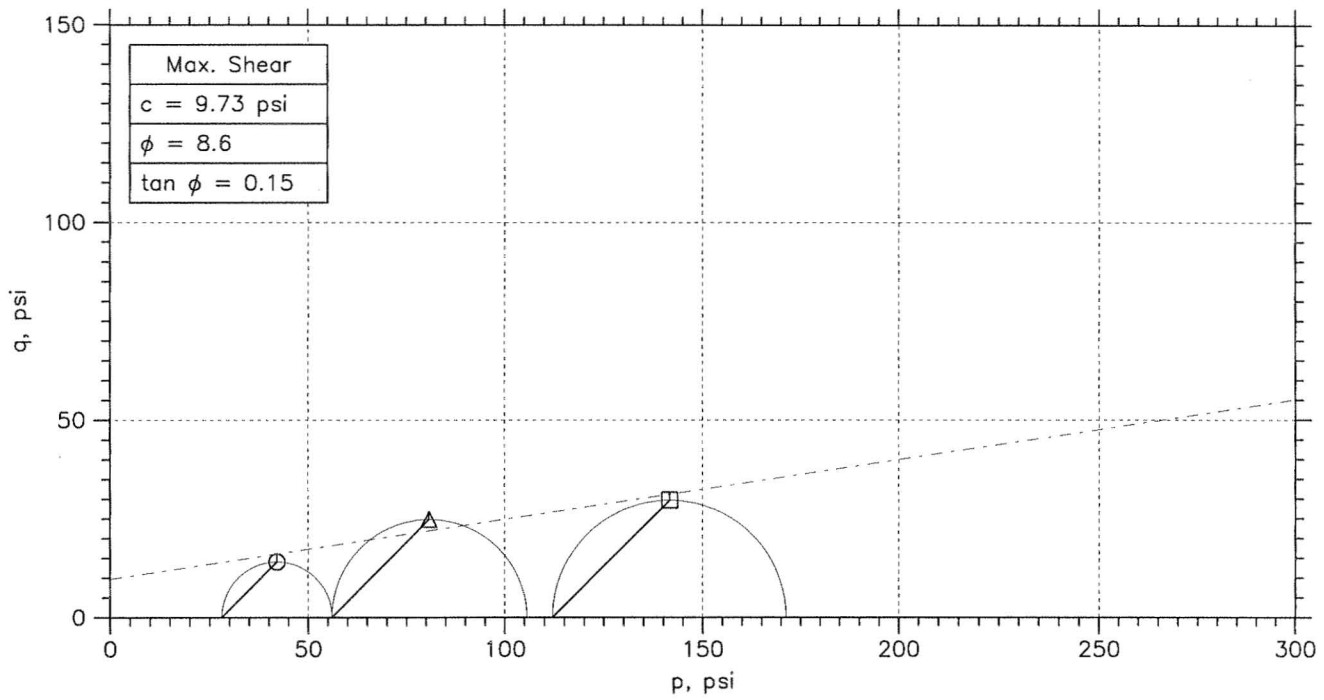
Phase calculations based on start and end of test.
* Saturation is set to 100% for phase calculations.

Tue, 31-JUL-2007 14:07:40

CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767





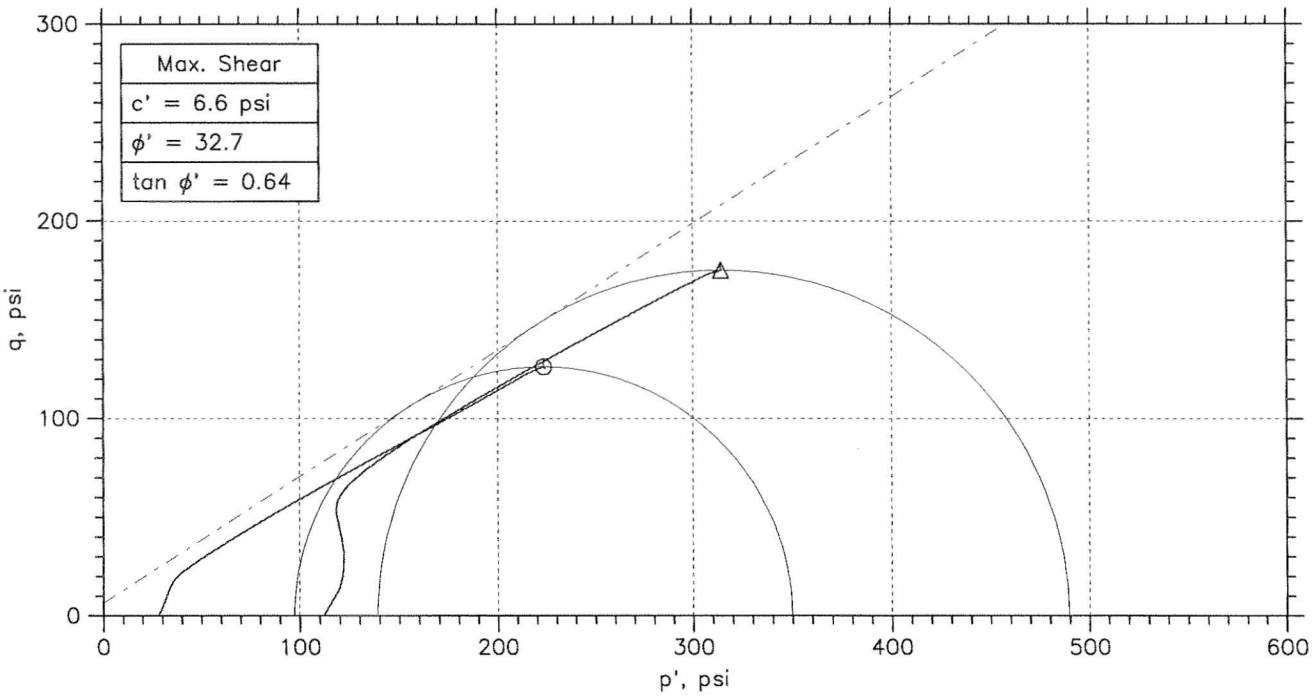


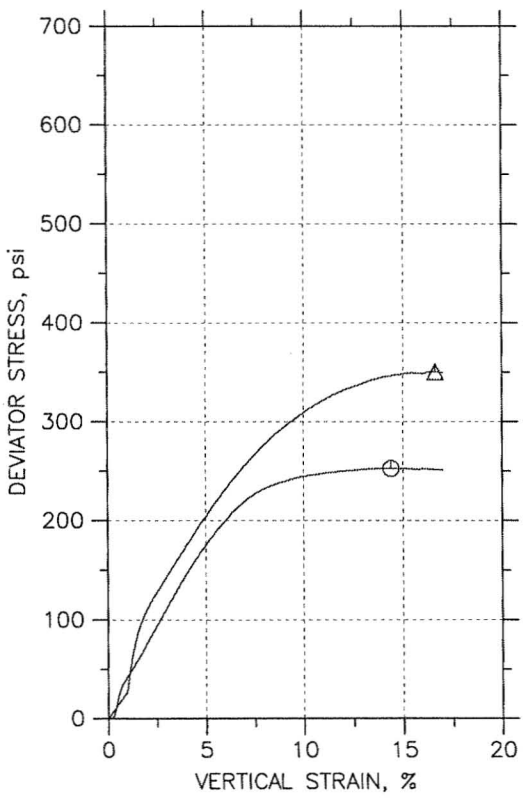
	Sample No.	Test No.	Depth	Tested By	Test Date	Checked By	Check Date	Test File
⊙	UD-2	7631.1	38.0 ft	HJ	6/27/07	JW		7631.1_2545a.dat
△	UD-2	7631.2	38.0 ft	HJ	6/27/07	JW	JW 7/31/07	7631.2_2547a.dat
⊡	UD-2	7631.3	38.0 ft	HJ	6/27/07	JW		7631.3_2546a.dat

MACTEC

Project: Vogtle COL	Location: B-1164	Project No.: 6141060286
Boring No.: B-1164	Sample Type: Undisturbed	
Description: SAND, clayey (SC)		
Remarks:		

CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767

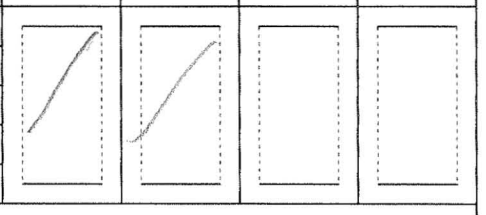




Symbol		⦶	△		
Sample No.		UD-6	UD-6		
Test No.		7497.1	7497.3		
Depth		153.5 ft	153.5 ft		
Initial	Diameter, in	2.825	2.855		
	Height, in	6	5.981		
	Water Content, %	24.8	26.6		
	Dry Density, pcf	99.32	97.47		
	Saturation, %	96.2	98.5		
	Void Ratio	0.697	0.729		
Before Shear	Water Content, %	26.2	25.1		
	Dry Density, pcf	98.69	100.4		
	Saturation*, %	100.0	100.0		
	Void Ratio	0.708	0.679		
	Back Press., psi	69.99	31.99		
Ver. Eff. Cons. Stress, psi		28.	112.		
Shear Strength, psi		126.2	175.1		
Strain at Failure, %		14.4	16.6		
Strain Rate, %/min		0.05	0.05		
B-Value		0.98	0.93		
Estimated Specific Gravity		2.7	2.7		
Liquid Limit		---	---		
Plastic Limit		---	---		

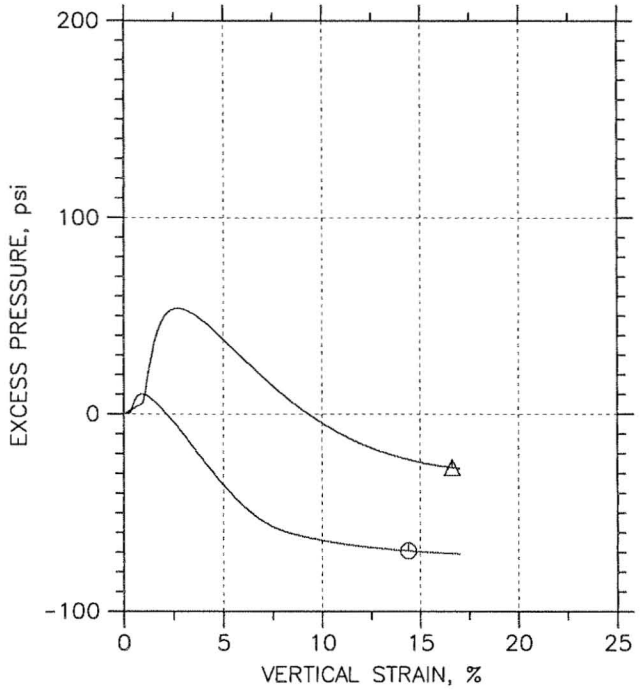
MACTEC

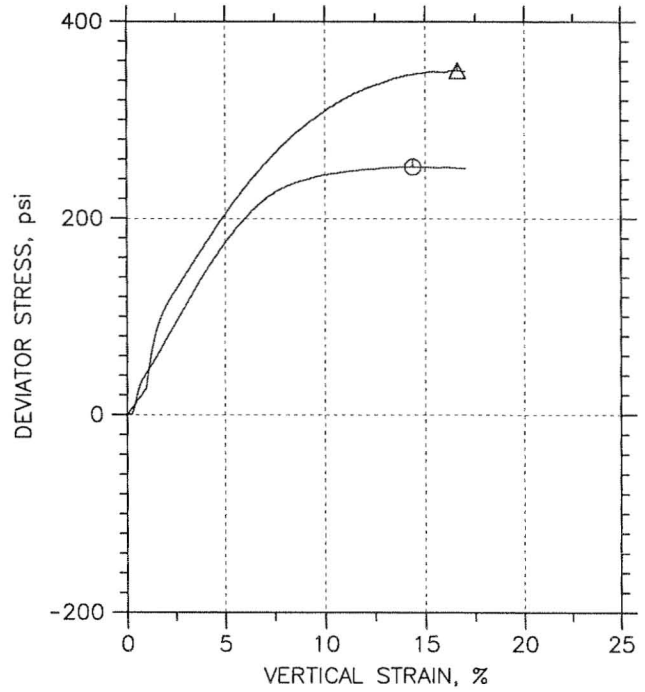
Project: Vogtle
Location: B-3001
Project No.: 6141060286
Boring No.: B-3001
Sample Type: Undisturbed
Description: Clay (CL)
Remarks:

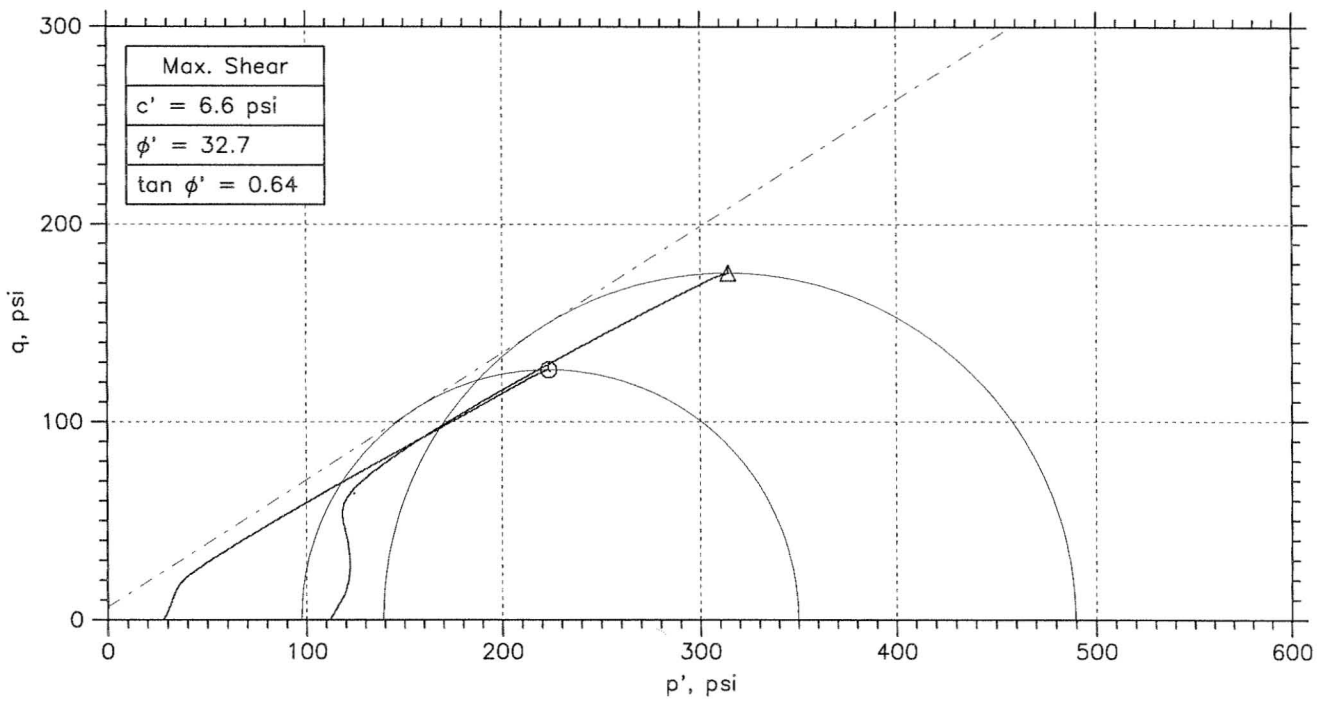


Phase calculations based on start and end of test.
* Saturation is set to 100% for phase calculations.

CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767





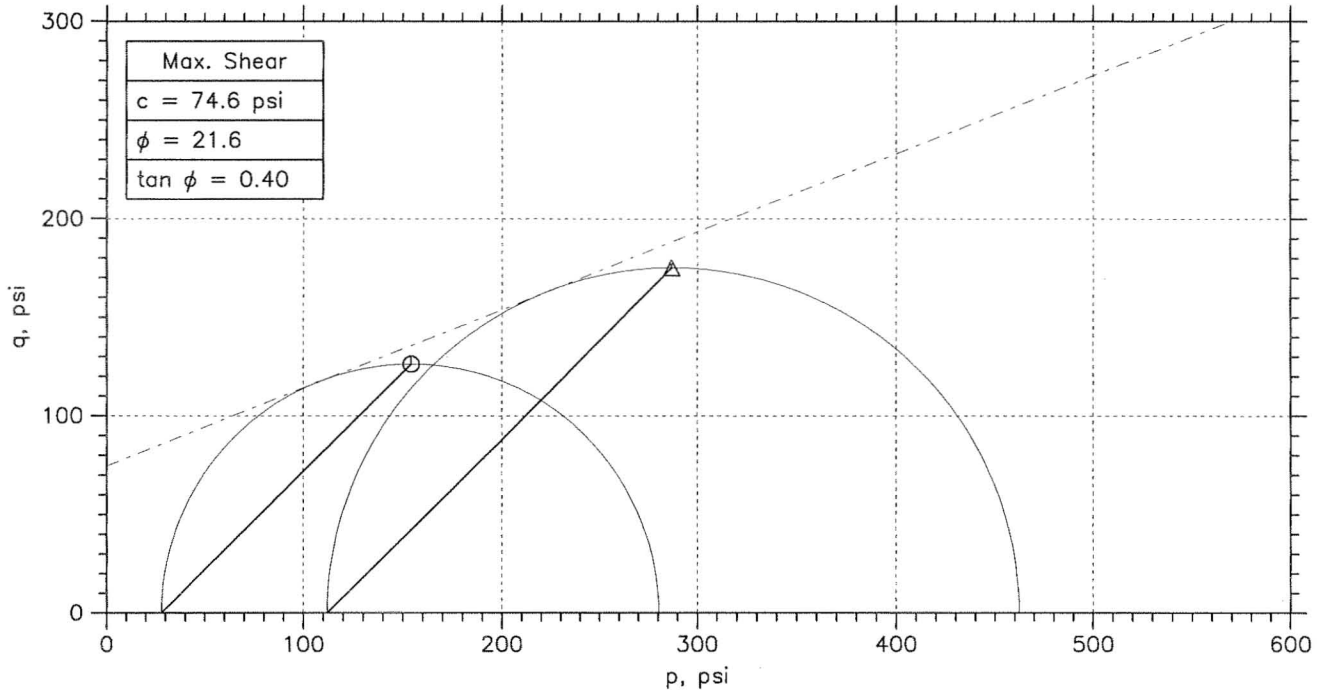


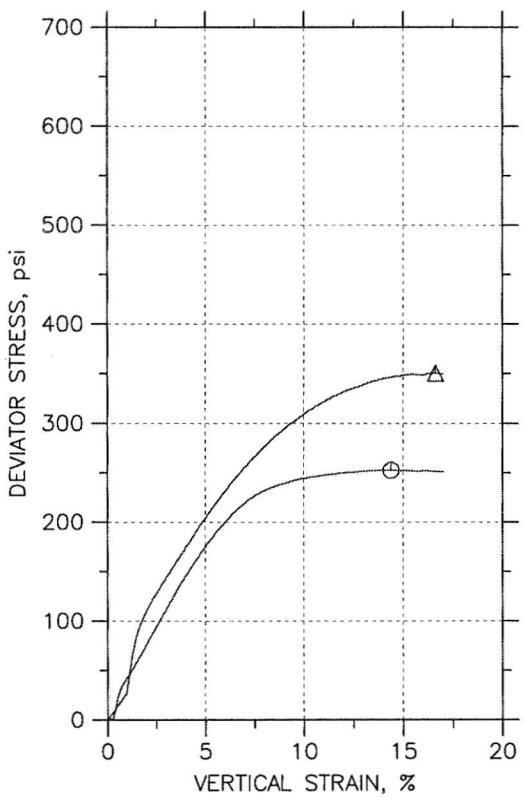
	Sample No.	Test No.	Depth	Tested By	Test Date	Checked By	Check Date	Test File
⦶	UD-6	7497.1	153.5 ft	BM	5/25/07	JW		7497.1_2545.dat
△	UD-6	7497.3	153.5 ft	BM	5/25/07	JW	JW 7/31/07	7497.3_2547a.dat

MACTEC

Project: Vogtle	Location: B-3001	Project No.: 6141060286
Boring No.: B-3001	Sample Type: Undisturbed	
Description: Clay (CL)		
Remarks:		

CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767





Symbol		⦶	△		
Sample No.		UD-6	UD-6		
Test No.		7497.1	7497.3		
Depth		153.5 ft	153.5 ft		
Initial	Diameter, in	2.825	2.855		
	Height, in	6	5.981		
	Water Content, %	24.8	26.6		
	Dry Density, pcf	99.32	97.47		
	Saturation, %	96.2	98.5		
	Void Ratio	0.697	0.729		
Before Shear	Water Content, %	26.2	25.1		
	Dry Density, pcf	98.69	100.4		
	Saturation*, %	100.0	100.0		
	Void Ratio	0.708	0.679		
	Back Press., psi	69.99	31.99		
Ver. Eff. Cons. Stress, psi		28.	112.		
Shear Strength, psi		126.2	175.1		
Strain at Failure, %		14.4	16.6		
Strain Rate, %/min		0.05	0.05		
B-Value		0.98	0.93		
Estimated Specific Gravity		2.7	2.7		
Liquid Limit		---	---		
Plastic Limit		---	---		

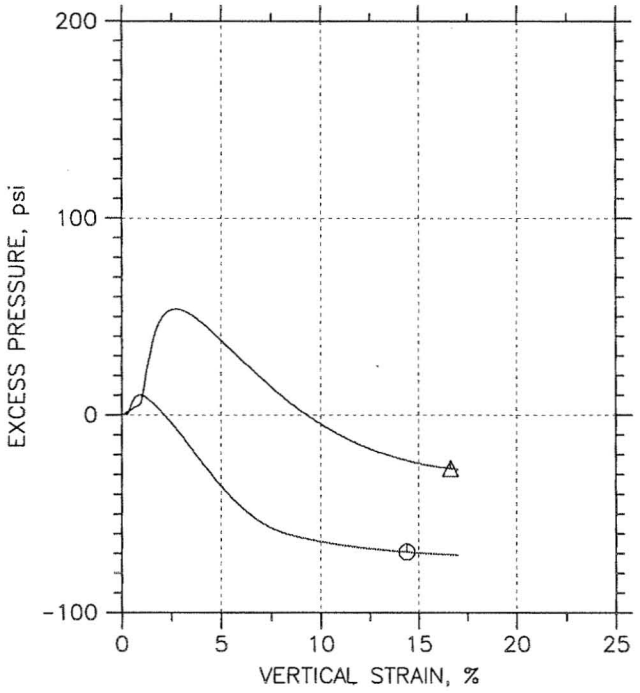
MACTEC

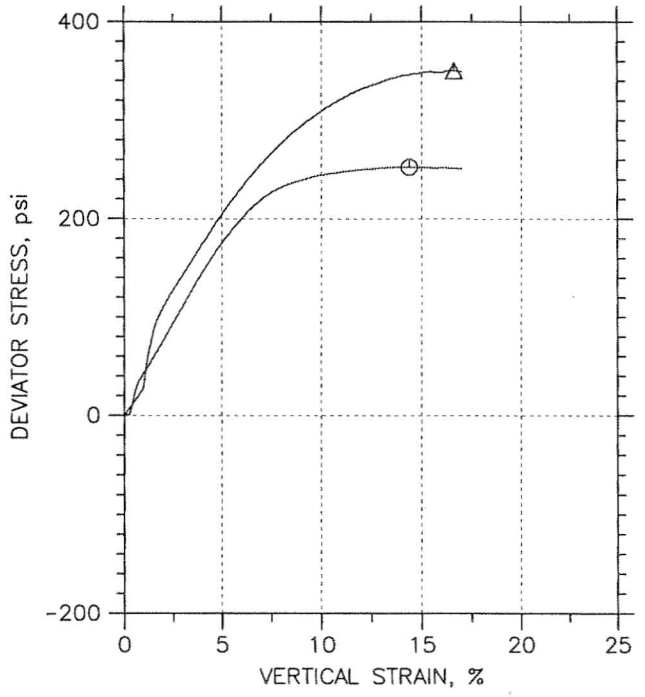
Project: Vogtle
Location: B-3001
Project No.: 6141060286
Boring No.: B-3001
Sample Type: Undisturbed
Description: Clay (CL)
Remarks:

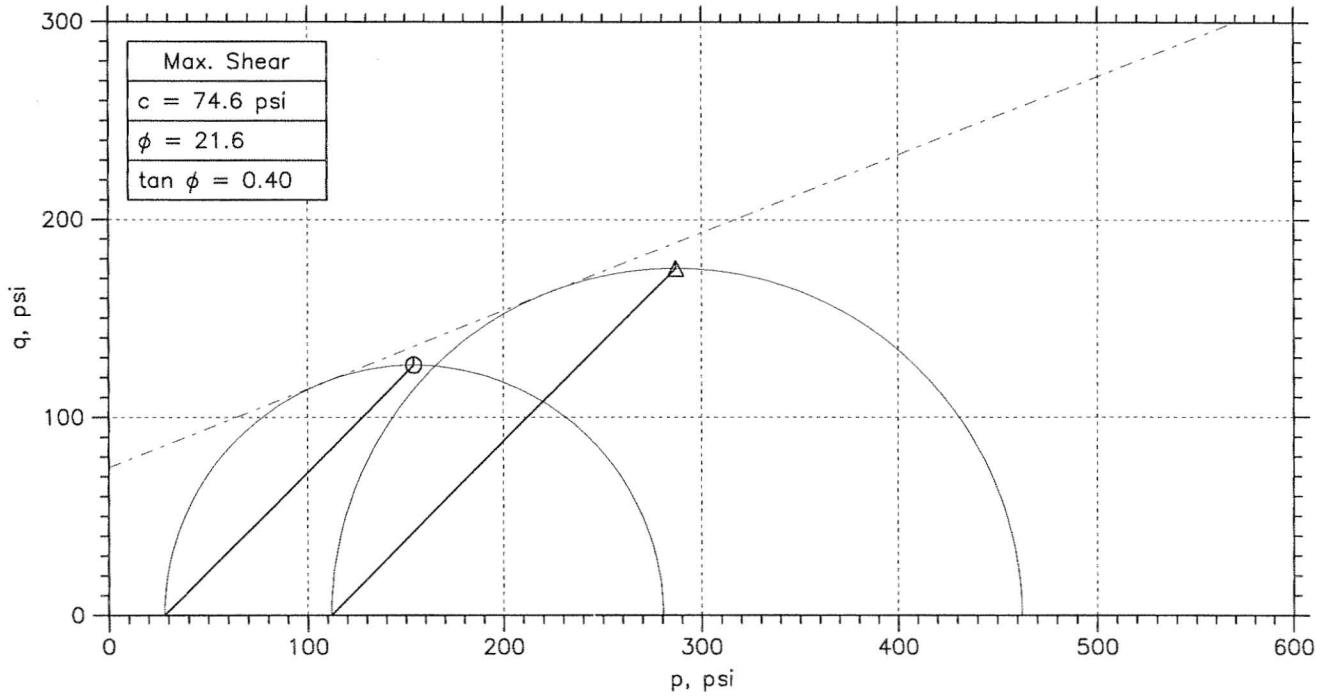
Phase calculations based on start and end of test.
* Saturation is set to 100% for phase calculations.

Mon, 30-JUL-2007 14:49:01

CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767





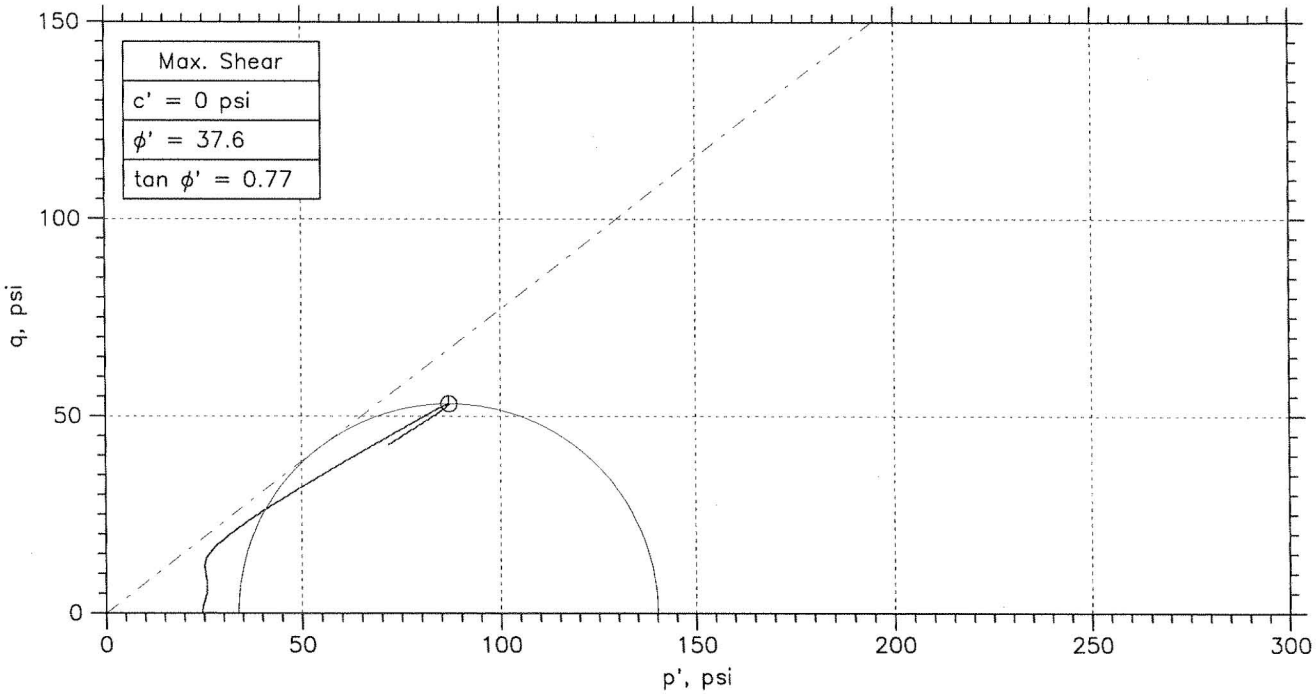


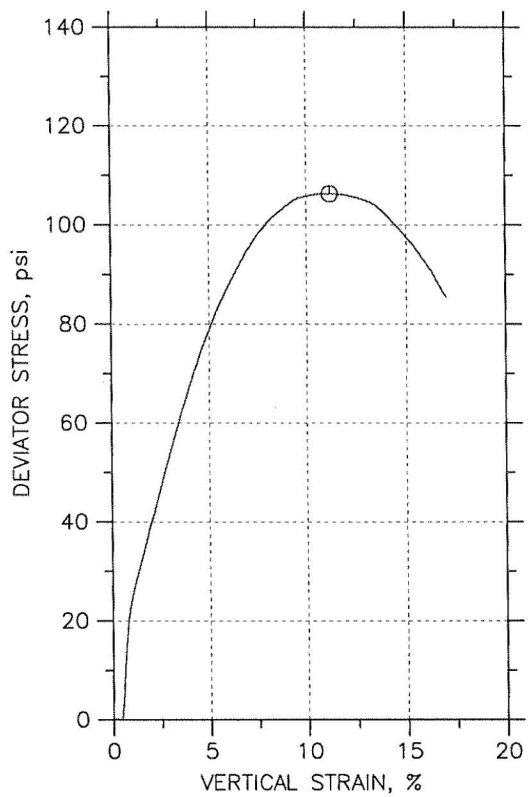
	Sample No.	Test No.	Depth	Tested By	Test Date	Checked By	Check Date	Test File
⏲	UD-6	7497.1	153.5 ft	BM	5/25/07	JW		7497.1_2545.dat
△	UD-6	7497.3	153.5 ft	BM	5/25/07	JW	JW 7/31/07	7497.3_2547a.dat

MACTEC

Project: Vogtle	Location: B-3001	Project No.: 6141060286
Boring No.: B-3001	Sample Type: Undisturbed	
Description: Clay (CL)		
Remarks:		

CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767





Symbol		⦶			
Sample No.		UD-9			
Test No.		7499.1			
Depth		193.5 ft			
Initial	Diameter, in	2.836			
	Height, in	5.6			
	Water Content, %	28.1			
	Dry Density, pcf	95.04			
	Saturation, %	100.4			
	Void Ratio	0.741			
Before Shear	Water Content, %	27.2			
	Dry Density, pcf	96.15			
	Saturation*, %	100.0			
	Void Ratio	0.721			
	Back Press., psi	93.94			
Ver. Eff. Cons. Stress, psi		27.99			
Shear Strength, psi		53.12			
Strain at Failure, %		11.2			
Strain Rate, %/min		0.05			
B-Value		0.97			
Estimated Specific Gravity		2.65			
Liquid Limit		---			
Plastic Limit		---			

MACTEC

Project: Vogtle COL

Location: B-3001

Project No.: 6141060286

Boring No.: B-3001

Sample Type: Undisturbed

Description: SAND, with clay (SP-SC)

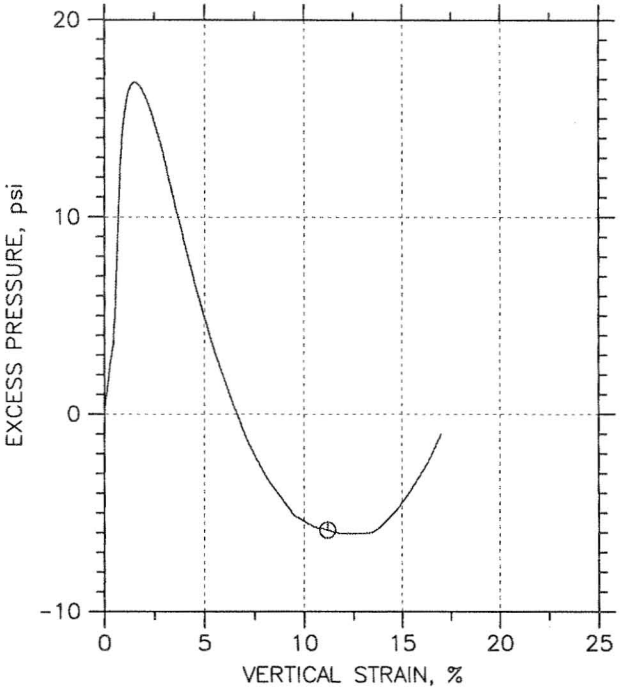
Remarks: Test failure during testing of second sample.

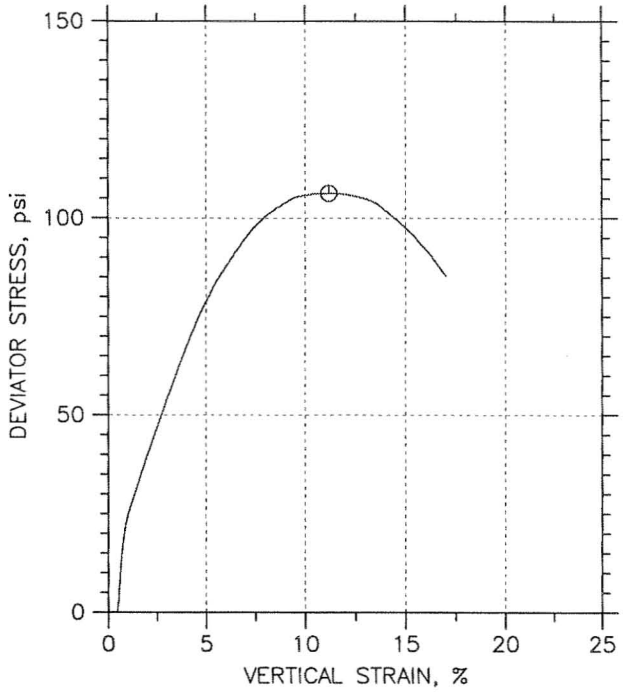
Phase calculations based on start and end of test.

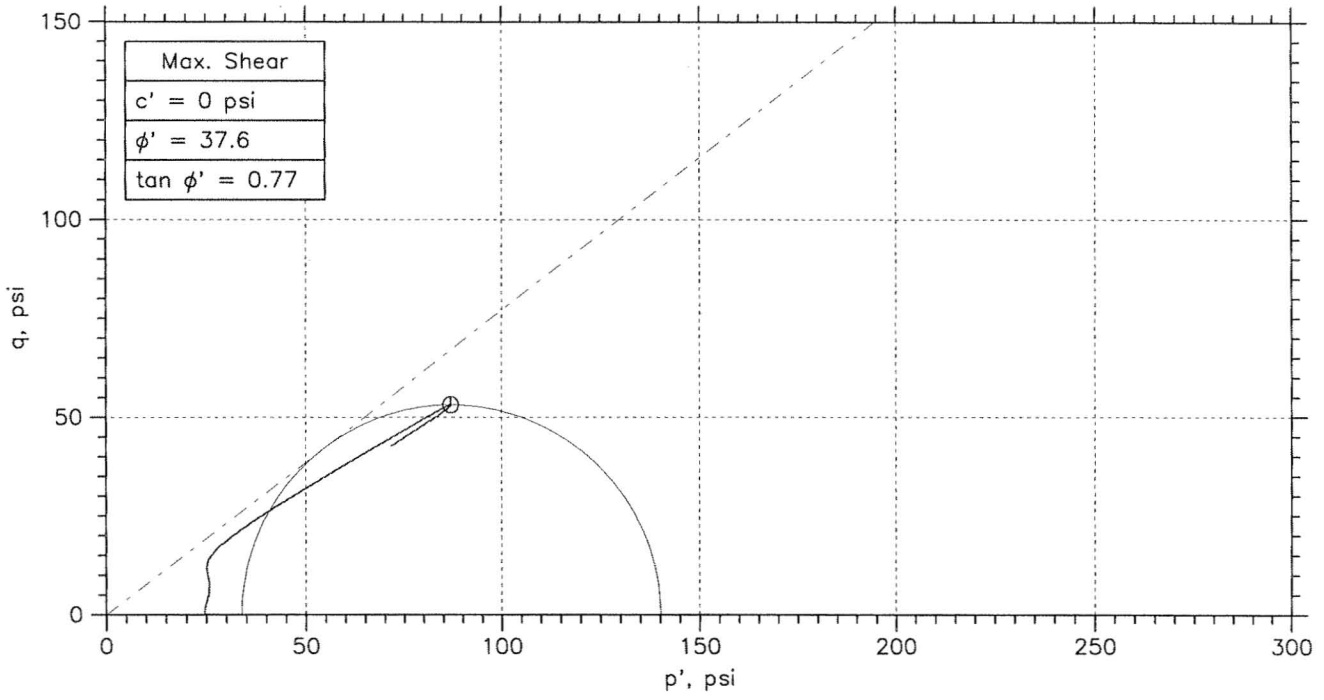
* Saturation is set to 100% for phase calculations.

Tue, 31-JUL-2007 14:20:41

CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767





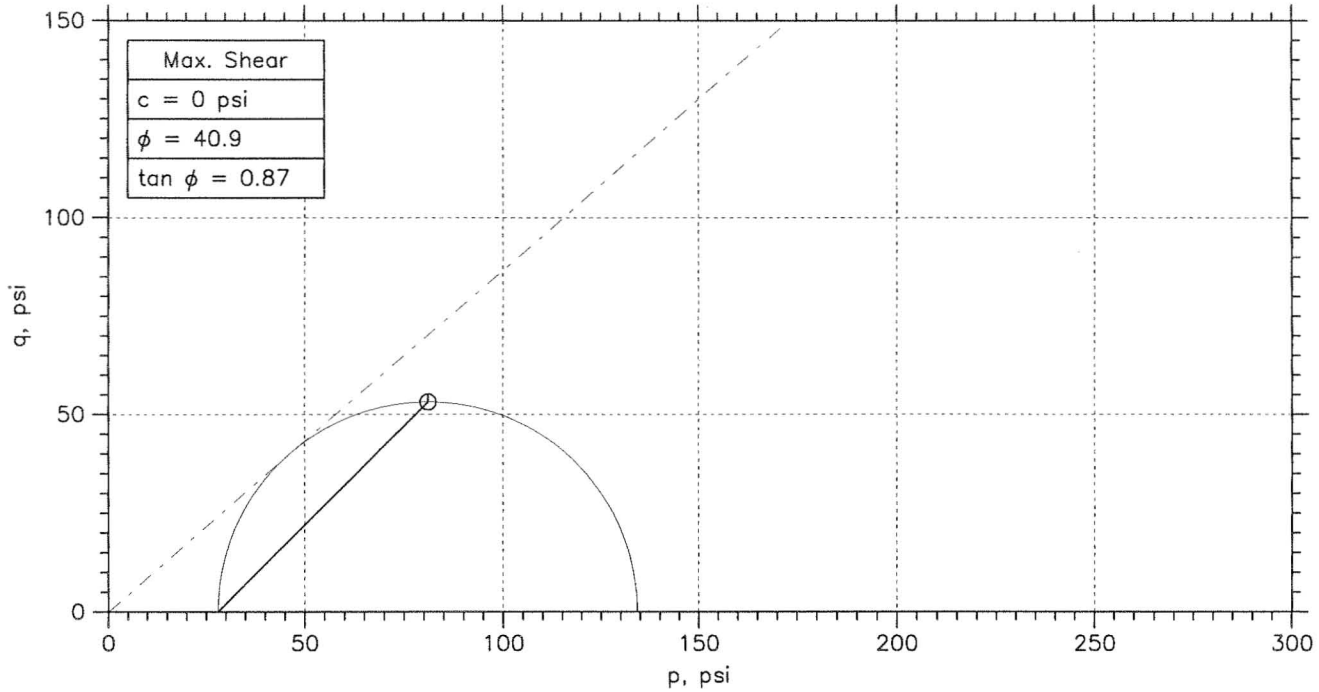


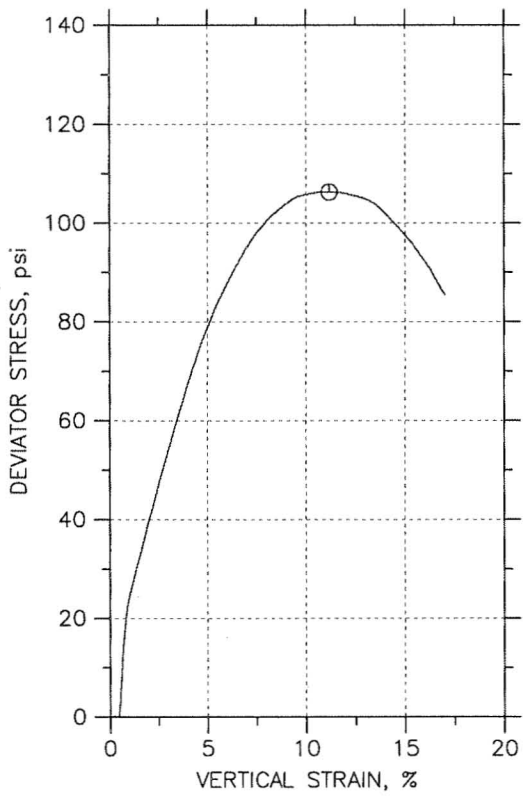
	Sample No.	Test No.	Depth	Tested By	Test Date	Checked By	Check Date	Test File
⊙	UD-9	7499.1	193.5 ft	BM	5/29/07	JW JW	7/31/07	7499.1_2545.dat

MACTEC

Project: Vogtle COL	Location: B-3001	Project No.: 6141060286
Boring No.: B-3001	Sample Type: Undisturbed	
Description: SAND, with clay (SP-SC)		
Remarks: Test failure during testing of second sample.		

CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767





Symbol		⏲			
Sample No.		UD-9			
Test No.		7499.1			
Depth		193.5 ft			
Initial	Diameter, in	2.836			
	Height, in	5.6			
	Water Content, %	28.1			
	Dry Density, pcf	95.04			
	Saturation, %	100.4			
	Void Ratio	0.741			
Before Shear	Water Content, %	27.2			
	Dry Density, pcf	96.15			
	Saturation*, %	100.0			
	Void Ratio	0.721			
	Back Press., psi	93.94			
Ver. Eff. Cons. Stress, psi		27.99			
Shear Strength, psi		53.12			
Strain at Failure, %		11.2			
Strain Rate, %/min		0.05			
B-Value		0.97			
Estimated Specific Gravity		2.65			
Liquid Limit		---			
Plastic Limit		---			

MACTEC

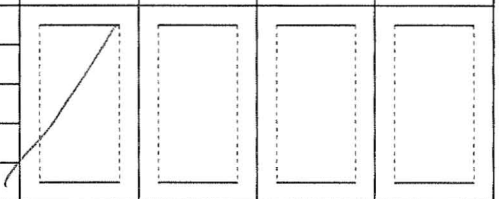
Project: Vogtle COL

Location: B-3001

Project No.: 6141060286

Boring No.: B-3001

Sample Type: Undisturbed



Description: SAND, with clay (SP-SC)

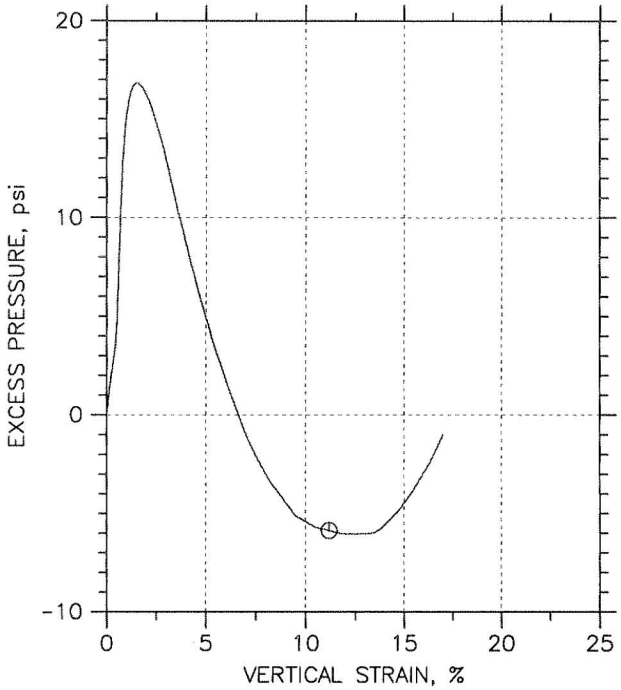
Remarks: Test failure during testing of second sample.

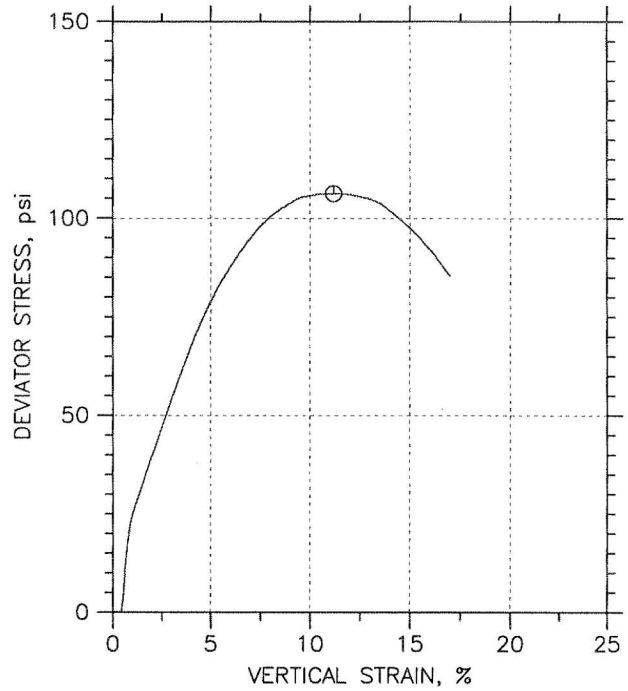
Phase calculations based on start and end of test.

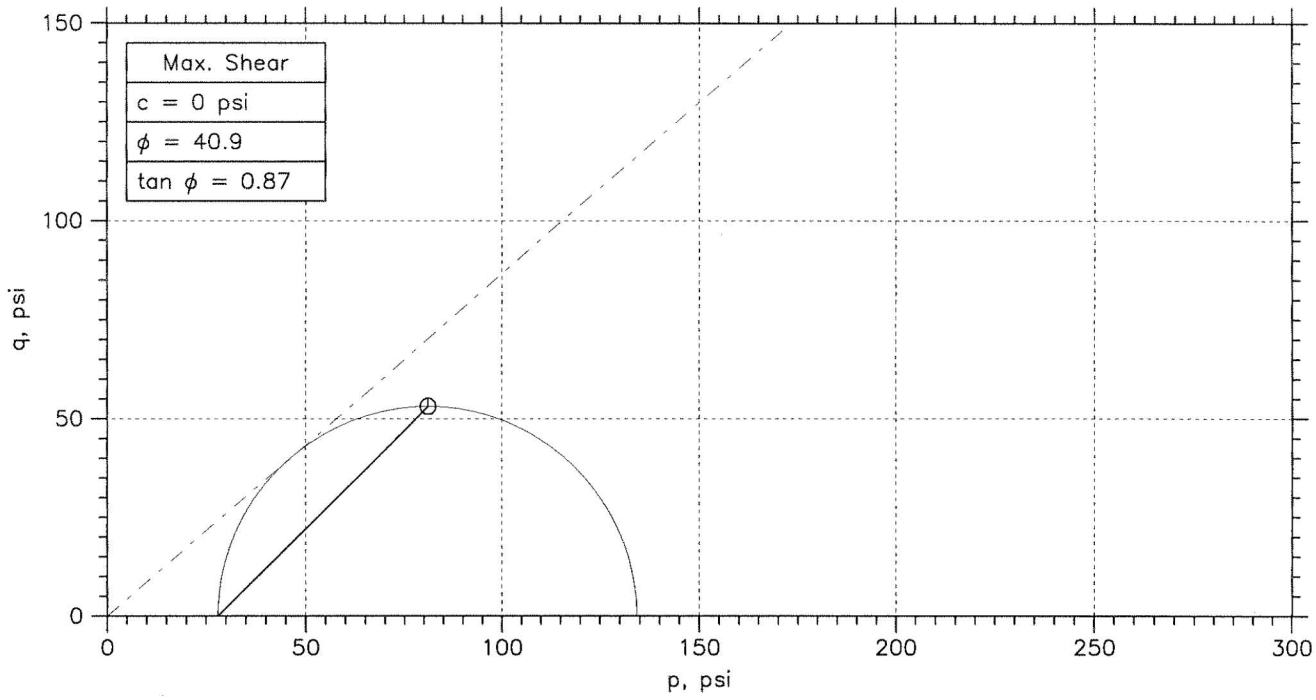
* Saturation is set to 100% for phase calculations.

Tue, 31-JUL-2007 14:20:50

CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767





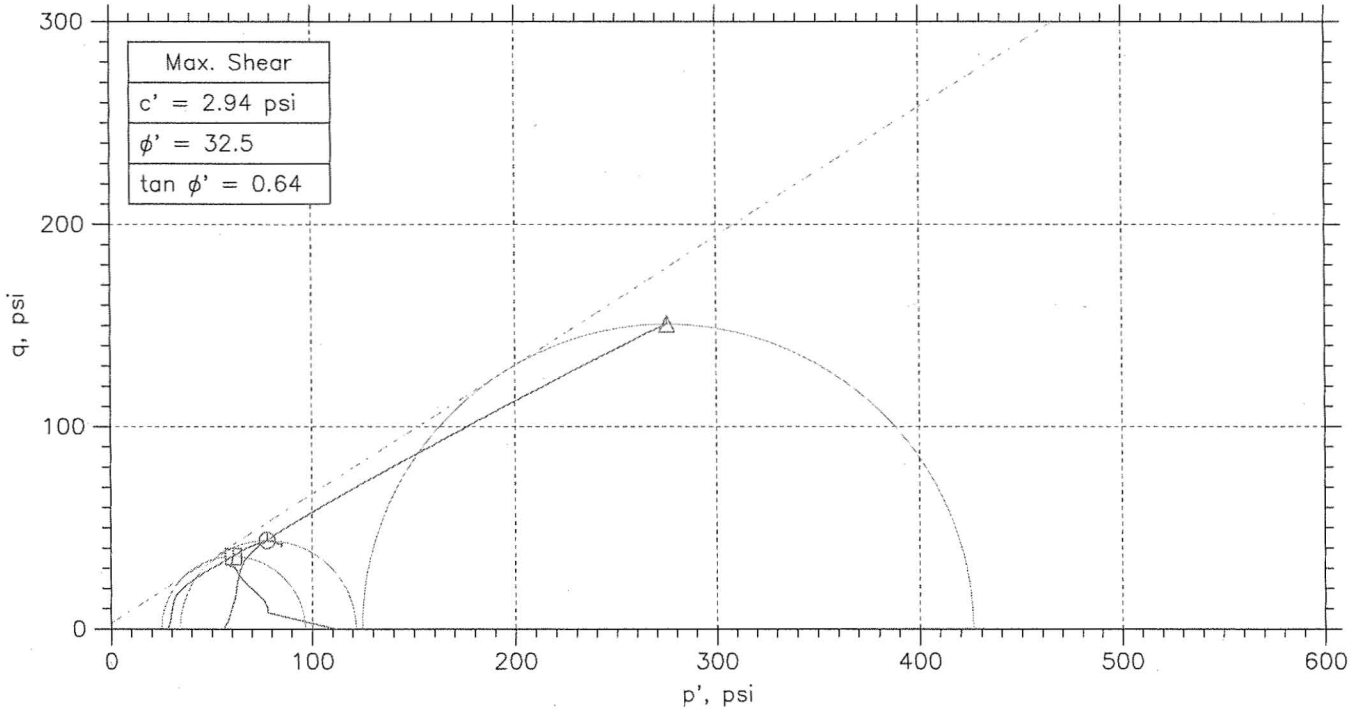


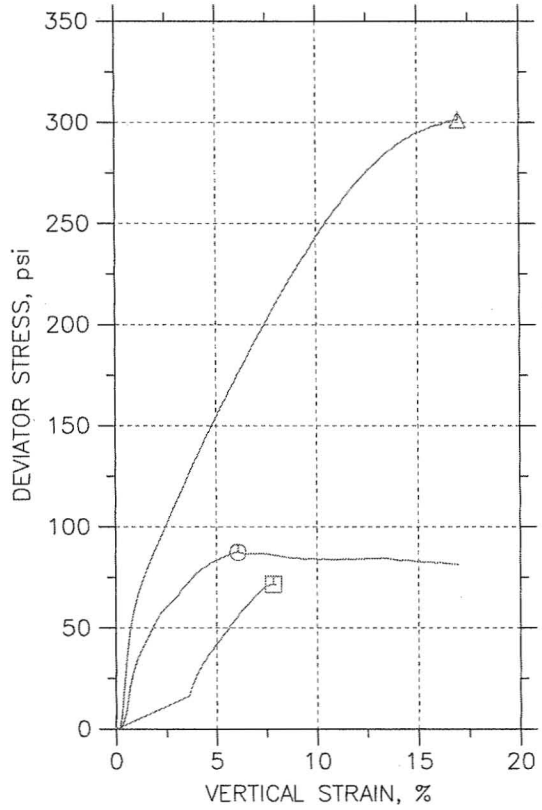
	Sample No.	Test No.	Depth	Tested By	Test Date	Checked By	Check Date	Test File
⊕	UD-9	7499.1	193.5 ft	BM	5/29/07	JW	JW 7/31/07	7499.1_2545.dat

MACTEC

Project: Vogtle COL	Location: B-3001	Project No.: 6141060286
Boring No.: B-3001	Sample Type: Undisturbed	
Description: SAND, with clay (SP-SC)		
Remarks: Test failure during testing of second sample.		

CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767

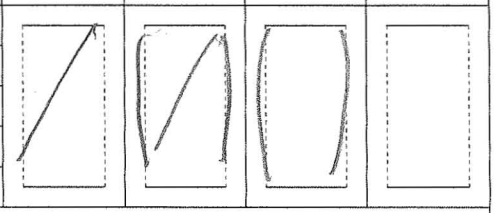




Symbol		⊙	△	⊡	
Sample No.		UD-10	UD-10	UD-10	
Test No.		7500.1	7500.2	7500.3	
Depth		208.5 ft	208.5 ft	208.5 ft	
Initial	Diameter, in	2.869	2.865	2.865	
	Height, in	5.605	5.604	5.655	
	Water Content, %	21.2	21.5	21.5	
	Dry Density, pcf	106.	105.4	99.38	
	Saturation, %	92.3	92.6	79.9	
	Void Ratio	0.637	0.647	0.746	
Before Shear	Water Content, %	22.1	21.6	22.2	
	Dry Density, pcf	107.5	108.4	107.3	
	Saturation*, %	100.0	100.0	100.0	
	Void Ratio	0.614	0.602	0.617	
	Back Press., psi	68.	82.	38.01	
Ver. Eff. Cons. Stress, psi		28.02	56.	112.	
Shear Strength, psi		43.69	150.7	35.76	
Strain at Failure, %		6.07	17	7.84	
Strain Rate, %/min		0.1	0.1	0.1	
B-Value		0.98	0.98	0.91	
Measured Specific Gravity		2.78	2.78	2.78	
Liquid Limit		74	74	74	
Plastic Limit		28	28	28	

MACTEC

Project: Votgle COL
Location: B-3001
Project No.: 6141060286
Boring No.: B-3001
Sample Type: Undisturbed
Description: SAND, with clay (SP-SC)
Remarks:

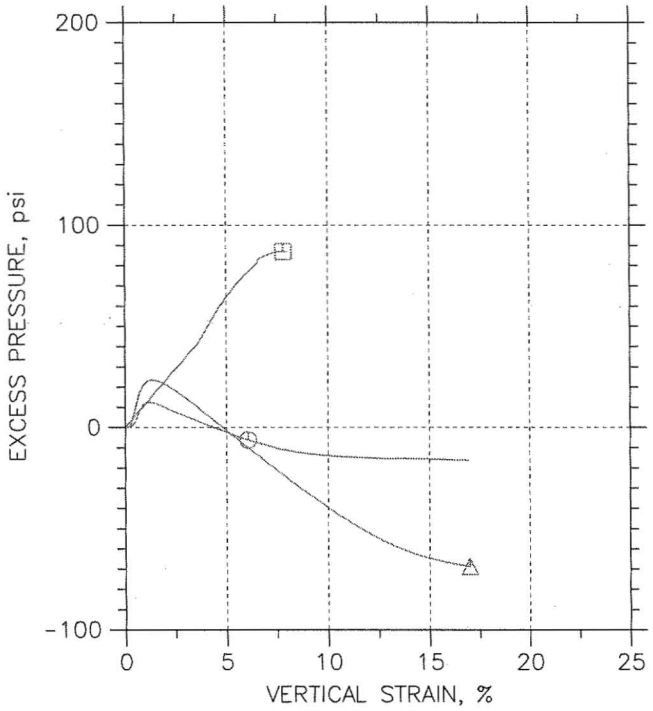


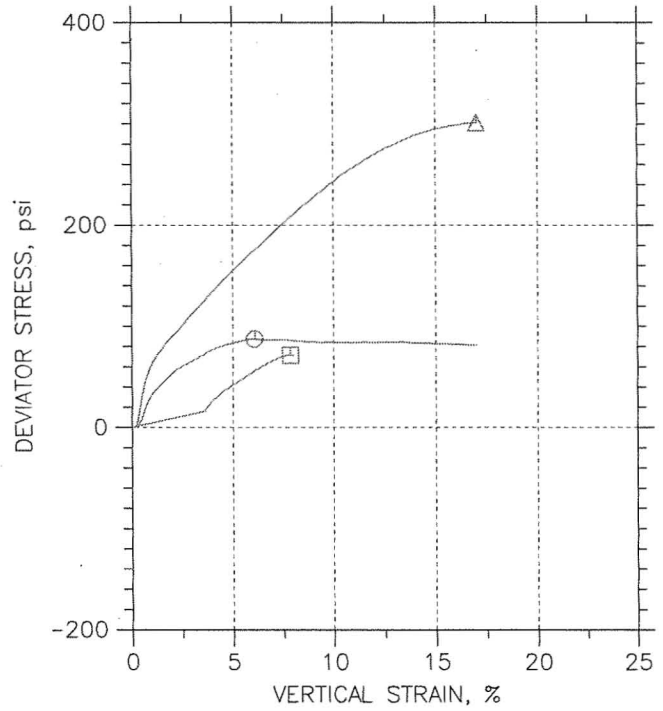
Tue, 31-JUL-2007 13:49:22

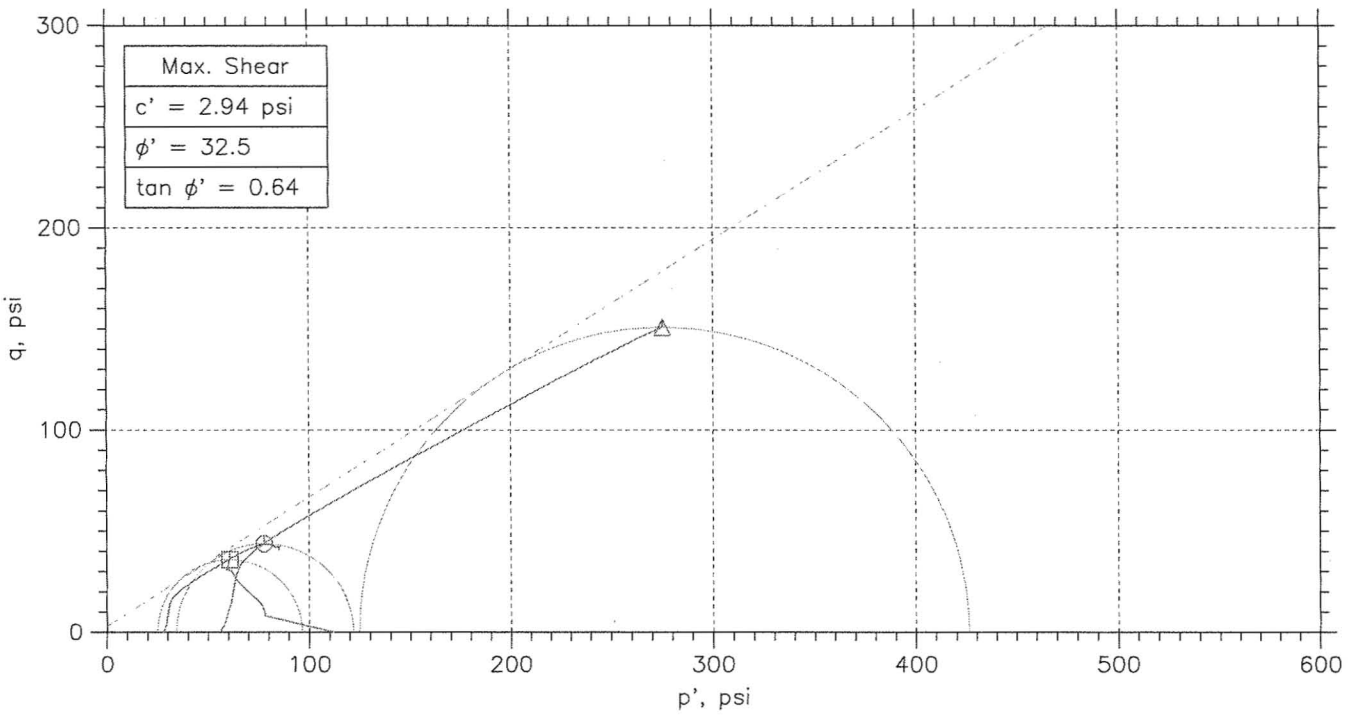
Phase calculations based on start and end of test.

* Saturation is set to 100% for phase calculations.

CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767







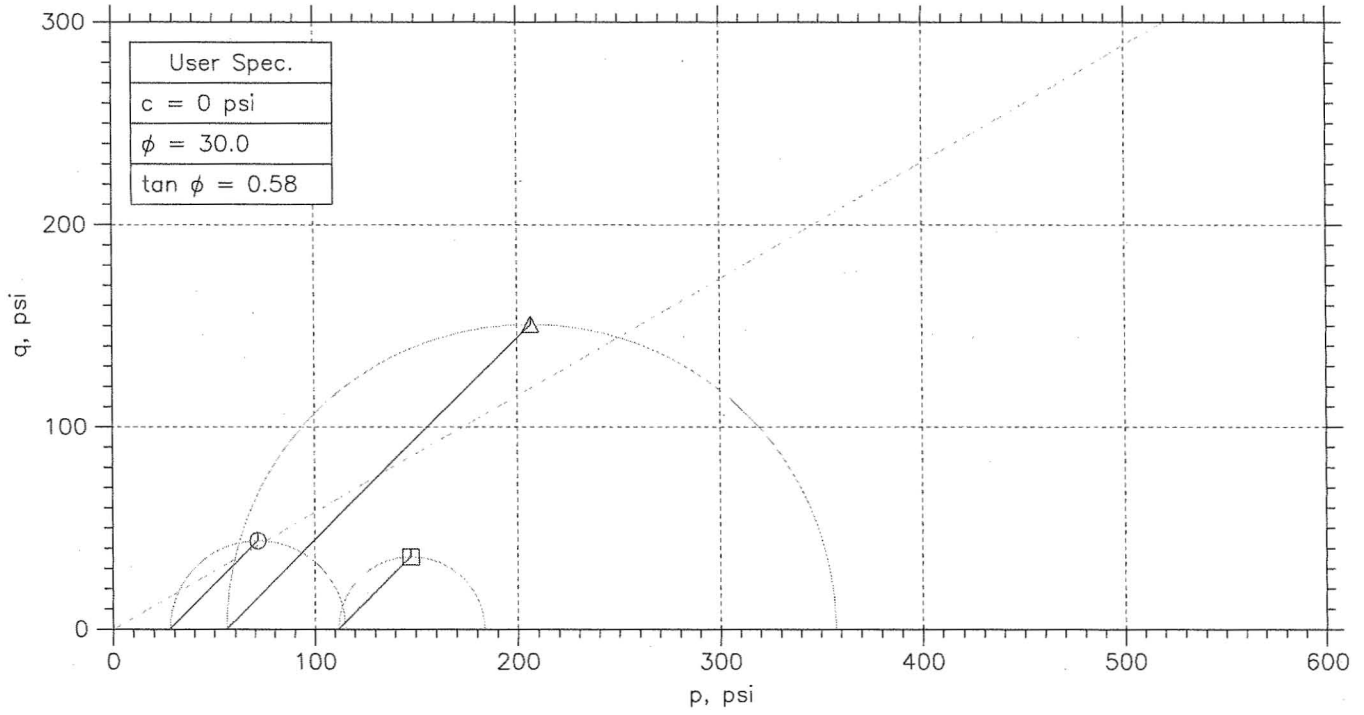
	Sample No.	Test No.	Depth	Tested By	Test Date	Checked By	Check Date	Test File
⊙	UD-10	7500.1	208.5 ft	HJ	7/9/07	JW		7500.1_2583.dat
△	UD-10	7500.2	208.5 ft	HJ	7/9/07	JW	JCD 7/31/07	7500.2_2582.dat
⊡	UD-10	7500.3	208.5 ft	HJ	7/9/07	JW		7500.3_2581a.dat

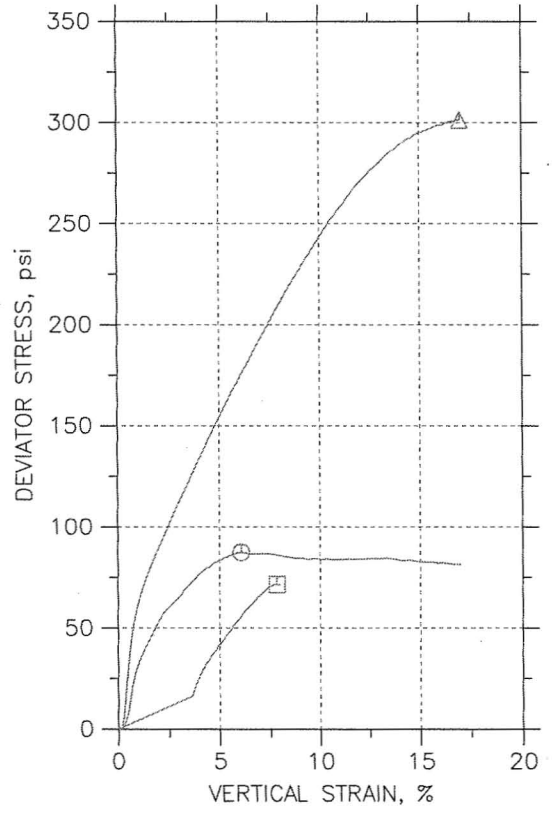
MACTEC

Project: Votgle COL	Location: B-3001	Project No.: 6141060286
Boring No.: B-3001	Sample Type: Undisturbed	
Description: SAND, with clay (SP-SC)		
Remarks:		

Tue, 31-JUL-2007 13:49:23

CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767

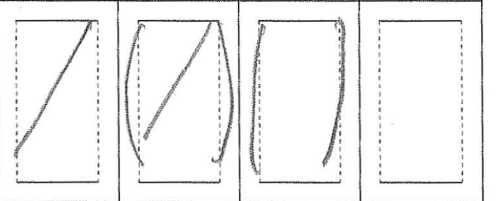




Symbol		⦶	△	⊡	
Sample No.		UD-10	UD-10	UD-10	
Test No.		7500.1	7500.2	7500.3	
Depth		208.5 ft	208.5 ft	208.5 ft	
Initial	Diameter, in	2.869	2.865	2.865	
	Height, in	5.605	5.604	5.655	
	Water Content, %	21.2	21.5	21.5	
	Dry Density, pcf	106.	105.4	99.38	
	Saturation, %	92.3	92.6	79.9	
	Void Ratio	0.637	0.647	0.746	
Before Shear	Water Content, %	22.1	21.6	22.2	
	Dry Density, pcf	107.5	108.4	107.3	
	Saturation*, %	100.0	100.0	100.0	
	Void Ratio	0.614	0.602	0.617	
	Back Press., psi	68.	82.	38.01	
Ver. Eff. Cons. Stress, psi		28.02	56.	112.	
Shear Strength, psi		43.69	150.7	35.76	
Strain at Failure, %		6.07	17	7.84	
Strain Rate, %/min		0.1	0.1	0.1	
B-Value		0.98	0.98	0.91	
Measured Specific Gravity		2.78	2.78	2.78	
Liquid Limit		74	74	74	
Plastic Limit		28	28	28	

MACTEC

Project: Votgle COL
Location: B-3001
Project No.: 6141060286
Boring No.: B-3001
Sample Type: Undisturbed
Description: SAND, with clay (SP-SC)
Remarks:

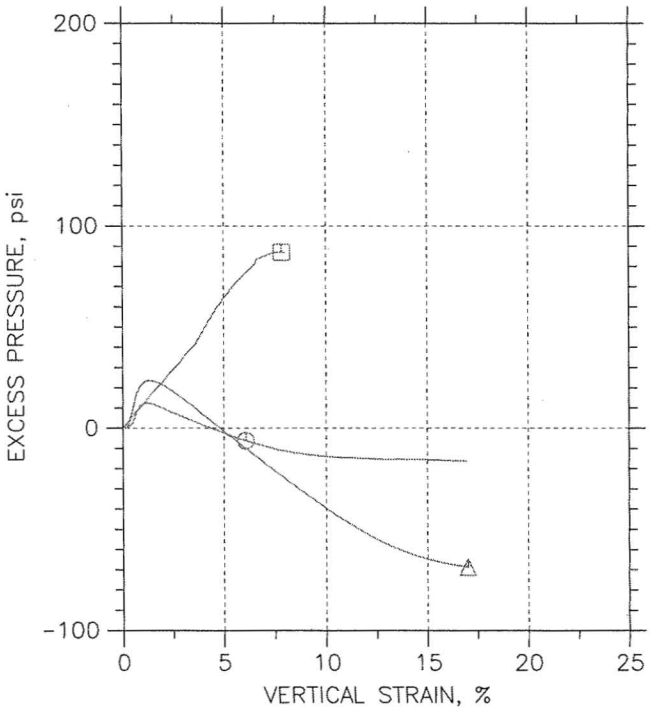


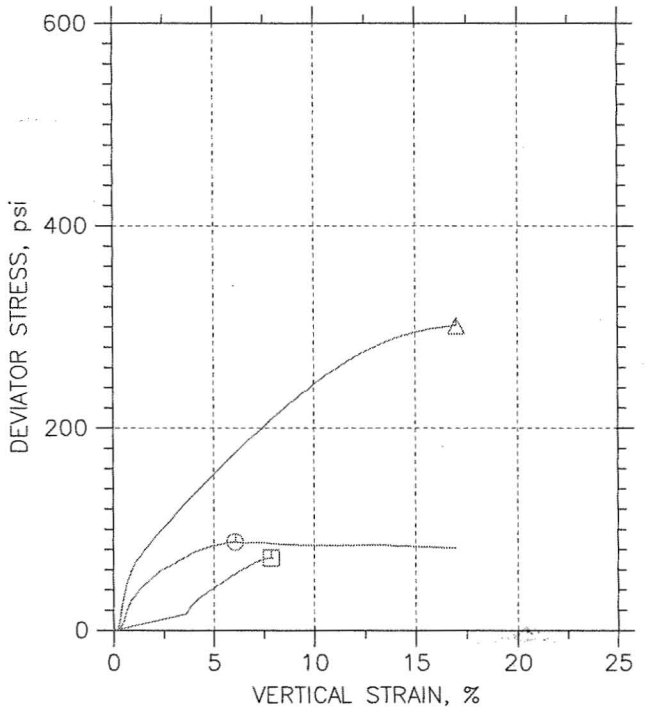
Tue, 31-JUL-2007 13:49:46

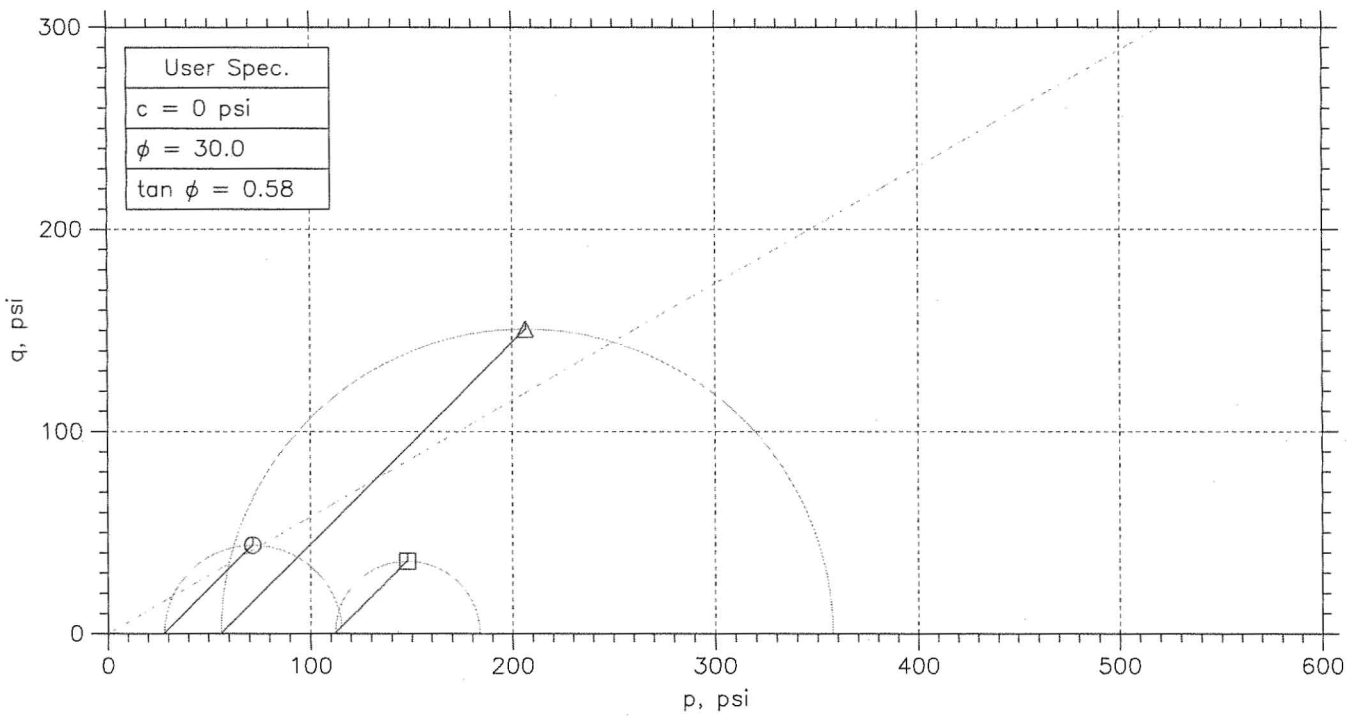
Phase calculations based on start and end of test.

* Saturation is set to 100% for phase calculations.

CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767







	Sample No.	Test No.	Depth	Tested By	Test Date	Checked By	Check Date	Test File
○	UD-10	7500.1	208.5 ft	HJ	7/9/07	JW		7500.1_2583.dat
△	UD-10	7500.2	208.5 ft	HJ	7/9/07	JW	JW 7/31/07	7500.2_2582.dat
□	UD-10	7500.3	208.5 ft	HJ	7/9/07	JW		7500.3_2581a.dat

MACTEC

Project: Votgle COL	Location: B-3001	Project No.: 6141060286
Boring No.: B-3001	Sample Type: Undisturbed	
Description: SAND, with clay (SP-SC)		
Remarks:		

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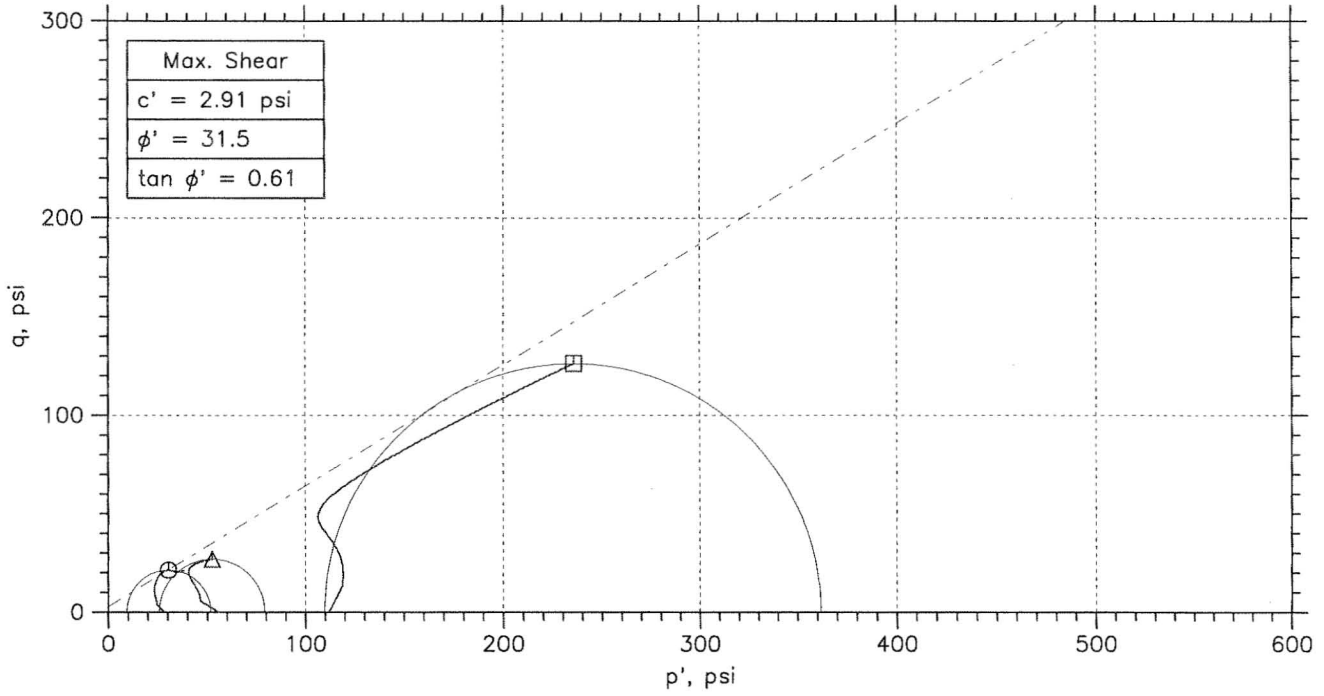
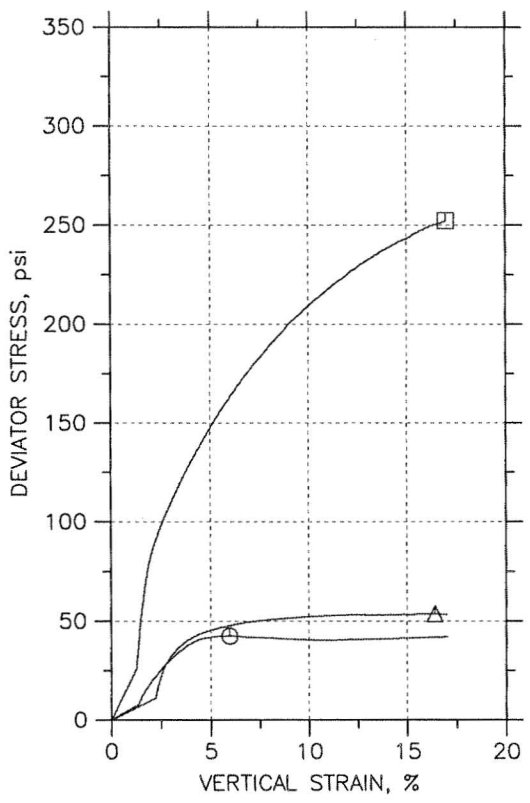
CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767





Symbol		⏲	△	⊡	
Sample No.		UD-5	UD-5	UD-5	
Test No.		7505.1	7505.2	7505.3	
Depth		148.0 ft	148.0 ft	148.0 ft	
Initial	Diameter, in	2.882	2.879	2.868	
	Height, in	5.96	5.963	5.971	
	Water Content, %	30.0	27.4	17.7	
	Dry Density, pcf	89.05	96.22	108.8	
	Saturation, %	90.7	98.3	87.2	
	Void Ratio	0.893	0.752	0.549	
Before Shear	Water Content, %	31.6	27.1	17.6	
	Dry Density, pcf	90.96	97.39	114.3	
	Saturation*, %	100.0	100.0	100.0	
	Void Ratio	0.853	0.731	0.475	
	Back Press., psi	100.	89.99	38.	
Ver. Eff. Cons. Stress, psi		27.99	56.	112.	
Shear Strength, psi		21.2	26.76	126.	
Strain at Failure, %		5.97	16.4	17	
Strain Rate, %/min		0.05	0.05	0.05	
B-Value		0.98	0.94	0.93	
Estimated Specific Gravity		2.7	2.7	2.7	
Liquid Limit		55	55	55	
Plastic Limit		21	21	21	

MACTEC

Project: Vogtle COL

Location: B-3003

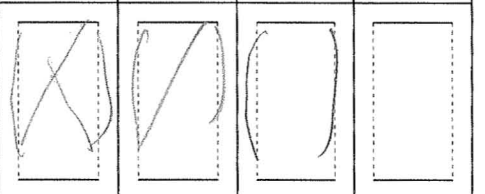
Project No.: 6141060286

Boring No.: B-3003

Sample Type: Undisturbed

Description: CLAY (CH)

Remarks:

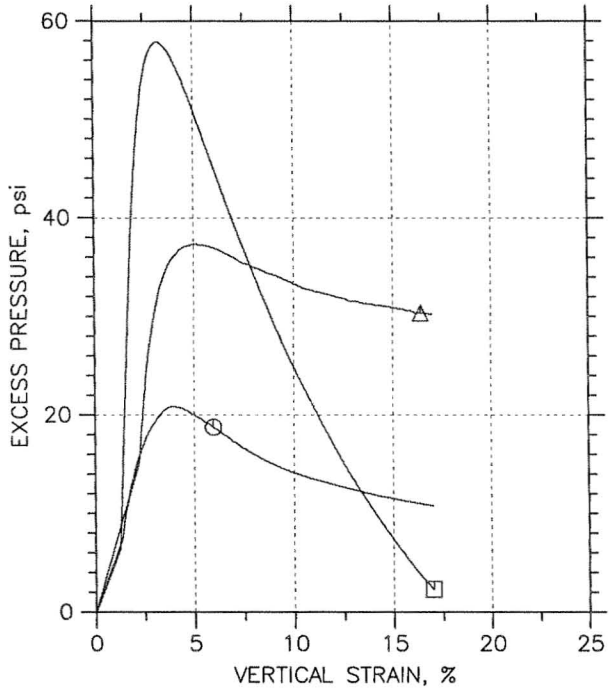


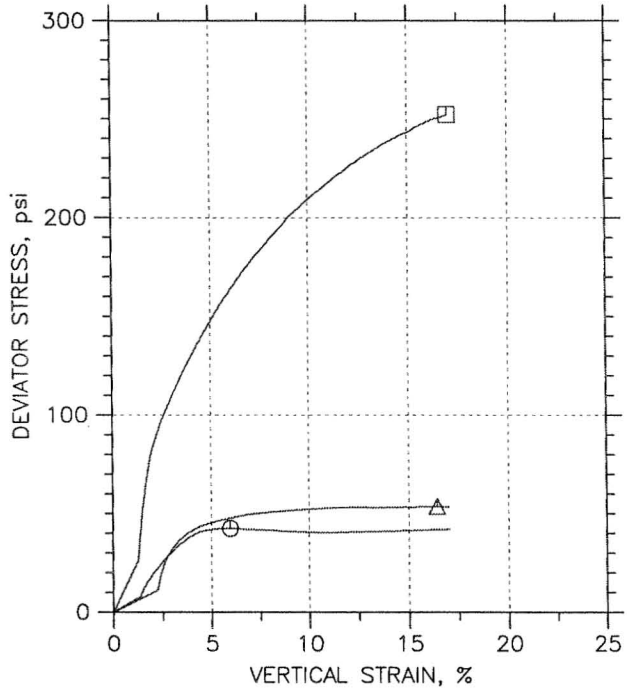
Phase calculations based on start and end of test.

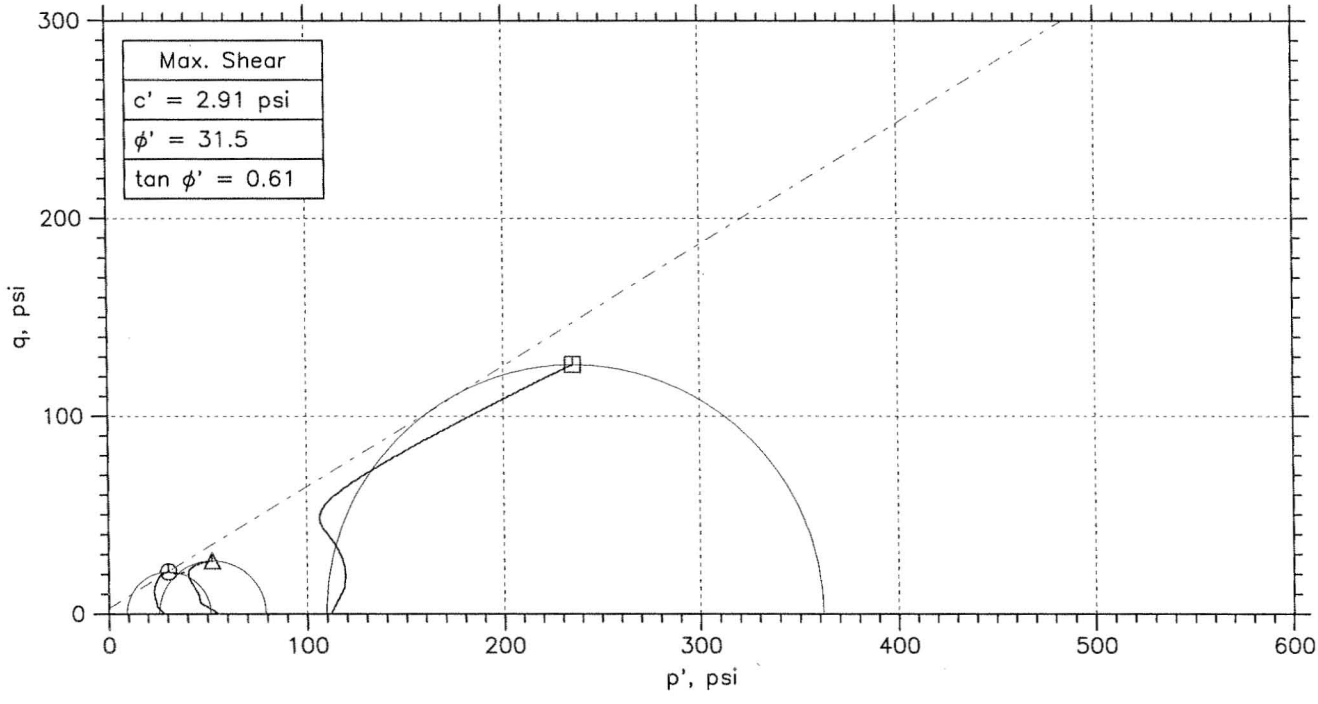
* Saturation is set to 100% for phase calculations.

Mon, 30-JUL-2007 15:09:16

CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767





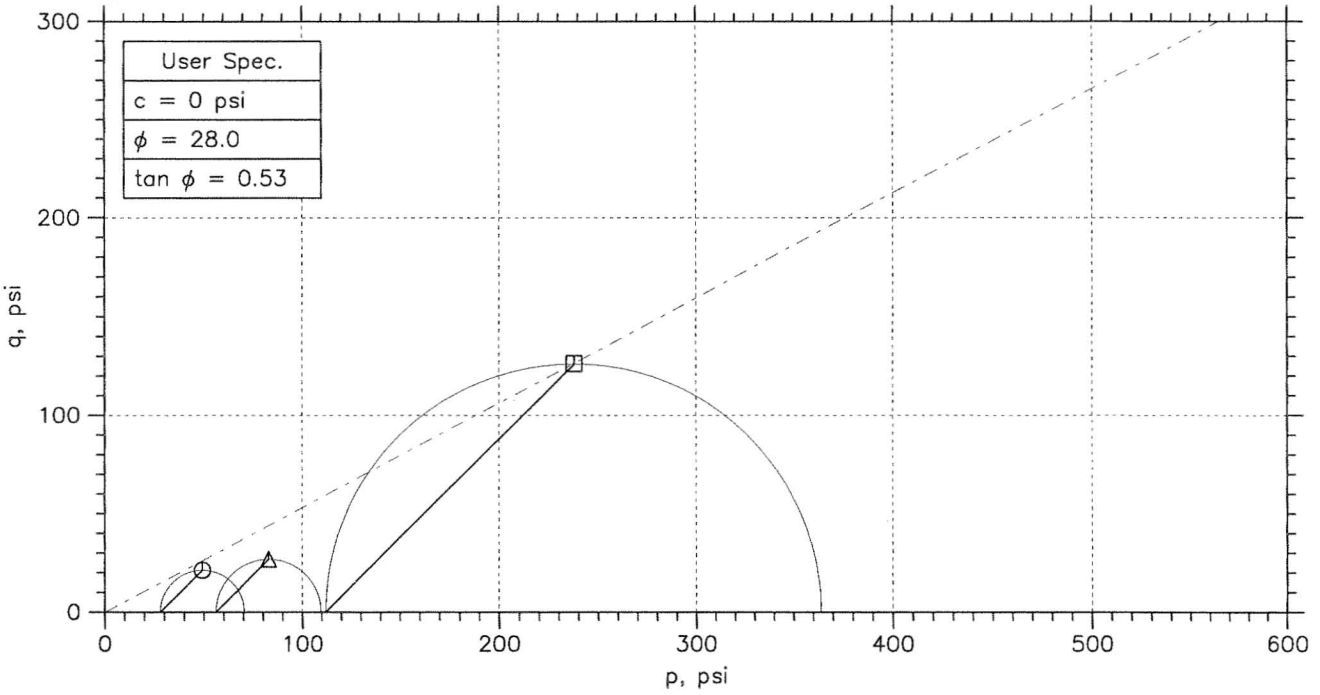


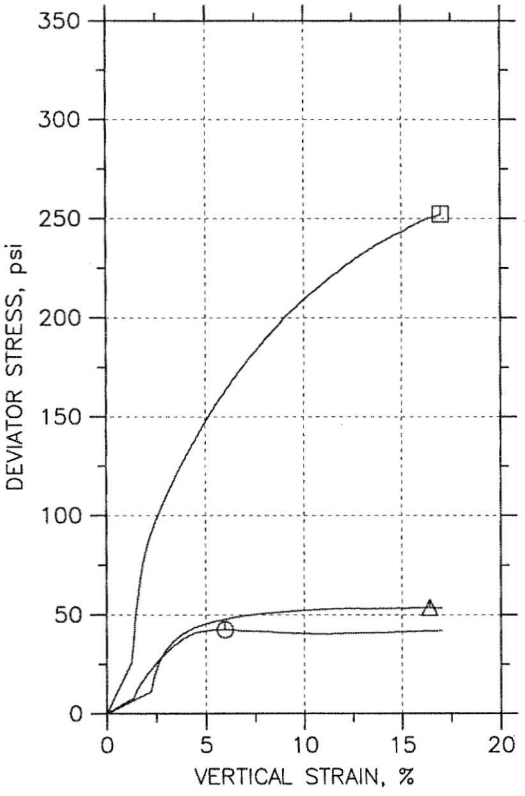
	Sample No.	Test No.	Depth	Tested By	Test Date	Checked By	Check Date	Test File
⏲	UD-5	7505.1	148.0 ft	HJ	6/13/07	JW		7505.1_2581a.dat
△	UD-5	7505.2	148.0 ft	HJ	6/13/07	JW	JWJ 7/31/07	7505.2_2582a.dat
⊡	UD-5	7505.3	148.0 ft	HJ	6/13/07	JW		7505.3_2583a.dat

MACTEC

Project: Vogtle COL	Location: B-3003	Project No.: 6141060286
Boring No.: B-3003	Sample Type: Undisturbed	
Description: CLAY (CH)		
Remarks:		

CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767





Symbol		⦶	△	⊡	
Sample No.		UD-5	UD-5	UD-5	
Test No.		7505.1	7505.2	7505.3	
Depth		148.0 ft	148.0 ft	148.0 ft	
Initial	Diameter, in	2.882	2.879	2.868	
	Height, in	5.96	5.963	5.971	
	Water Content, %	30.0	27.4	17.7	
	Dry Density, pcf	89.05	96.22	108.8	
	Saturation, %	90.7	98.3	87.2	
	Void Ratio	0.893	0.752	0.549	
Before Shear	Water Content, %	31.6	27.1	17.6	
	Dry Density, pcf	90.96	97.39	114.3	
	Saturation*, %	100.0	100.0	100.0	
	Void Ratio	0.853	0.731	0.475	
	Back Press., psi	100.	89.99	38.	
Ver. Eff. Cons. Stress, psi		27.99	56.	112.	
Shear Strength, psi		21.2	26.76	126.	
Strain at Failure, %		5.97	16.4	17	
Strain Rate, %/min		0.05	0.05	0.05	
B-Value		0.98	0.94	0.93	
Estimated Specific Gravity		2.7	2.7	2.7	
Liquid Limit		55	55	55	
Plastic Limit		21	21	21	

MACTEC

Project: Vogtle COL

Location: B-3003

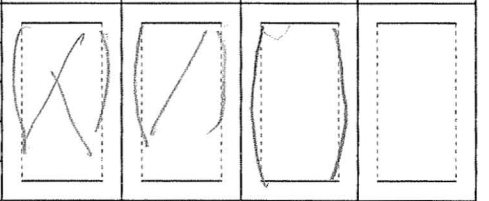
Project No.: 6141060286

Boring No.: B-3003

Sample Type: Undisturbed

Description: CLAY (CH)

Remarks:



Phase calculations based on start and end of test.

* Saturation is set to 100% for phase calculations.

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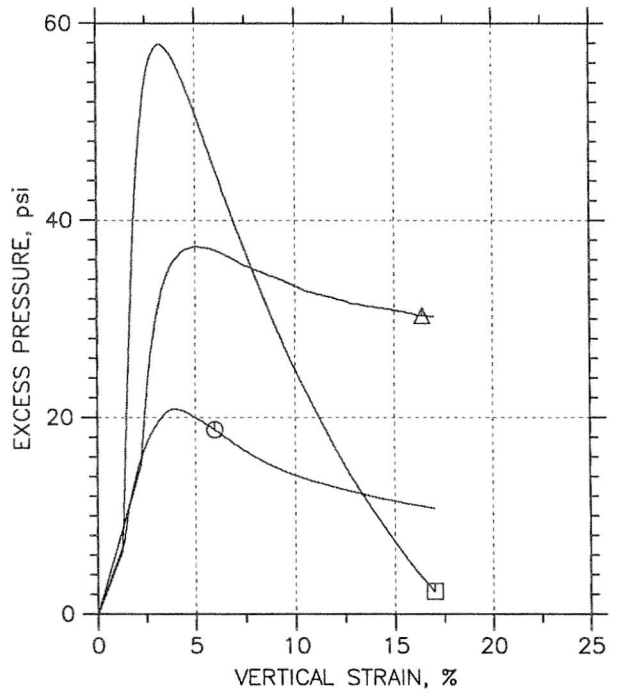
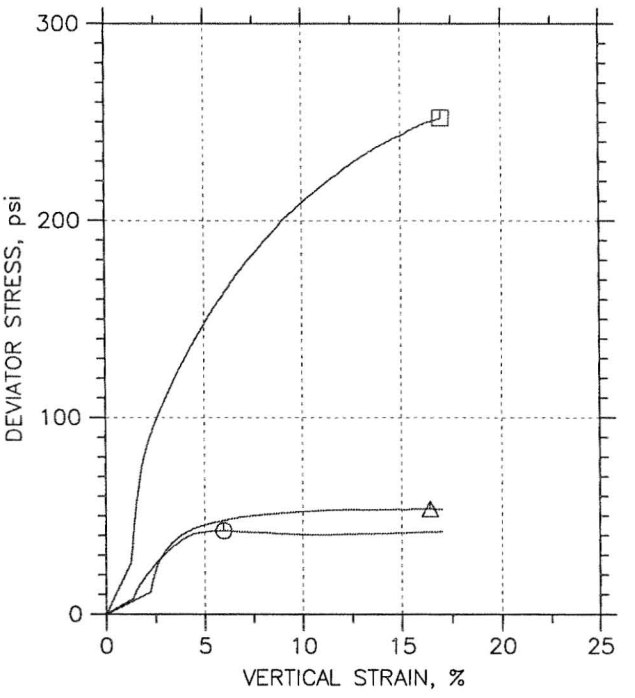
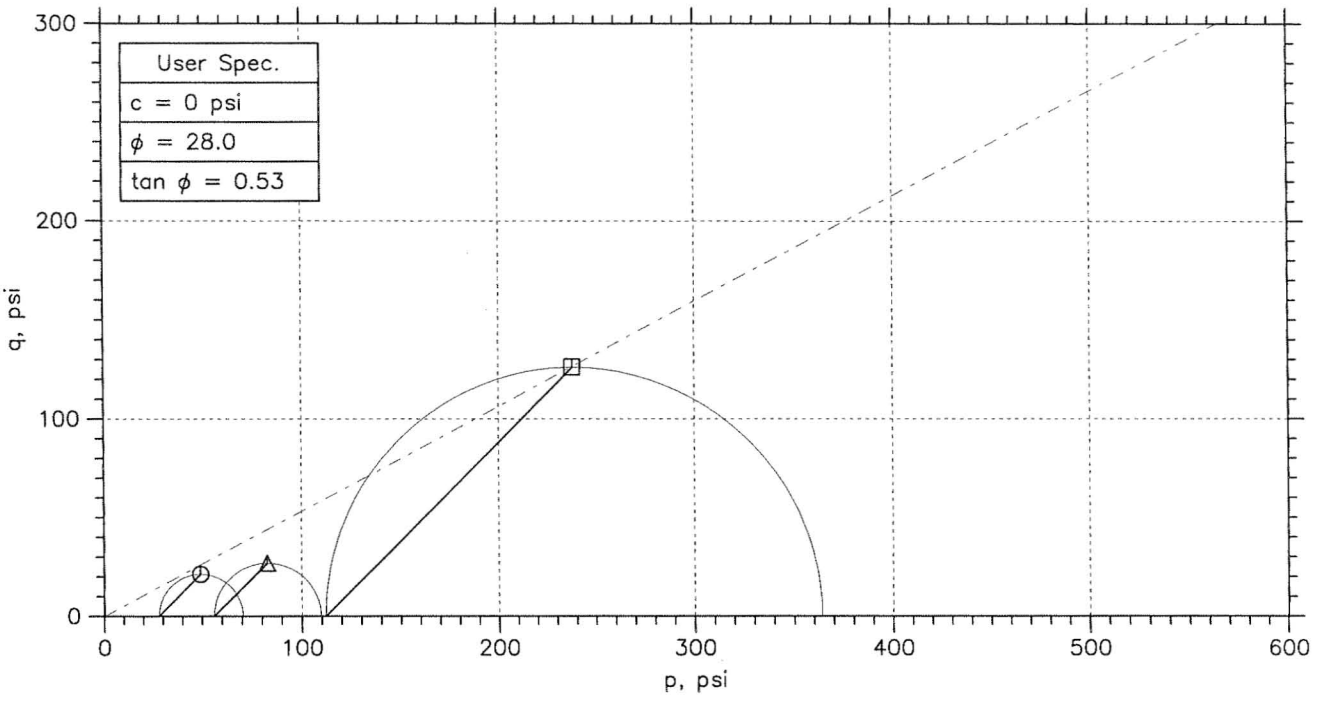
CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767





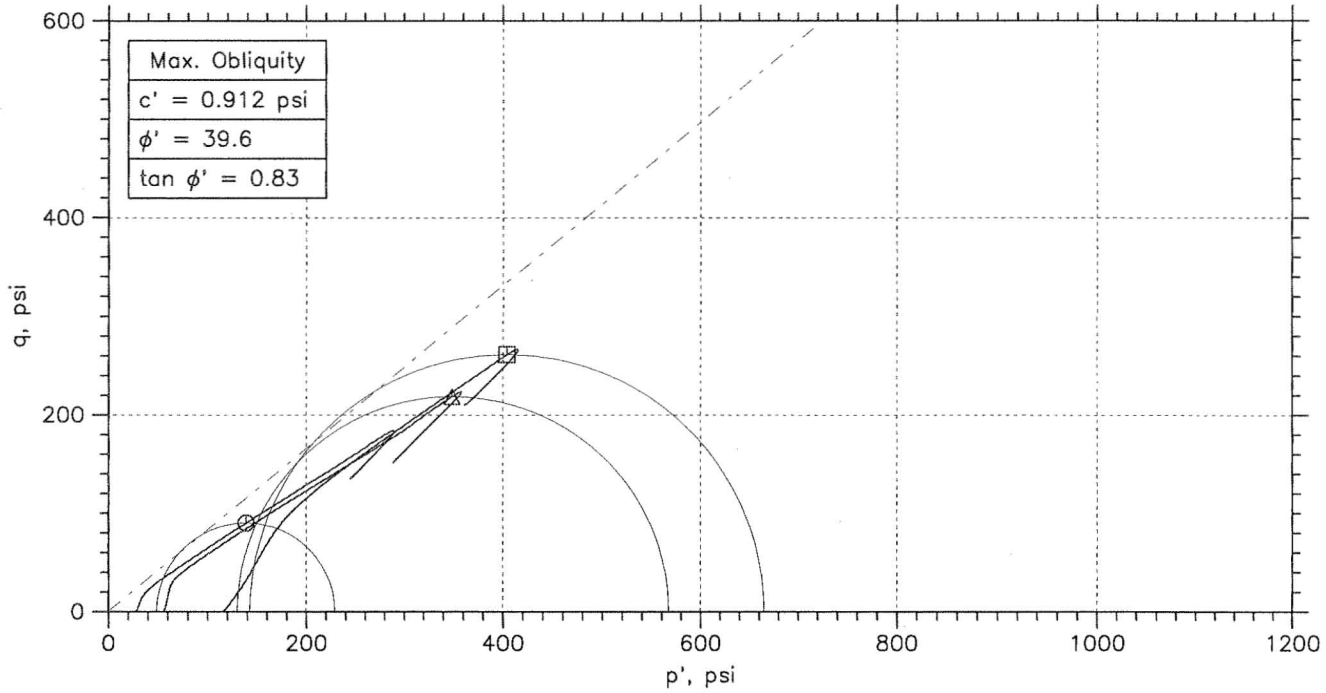


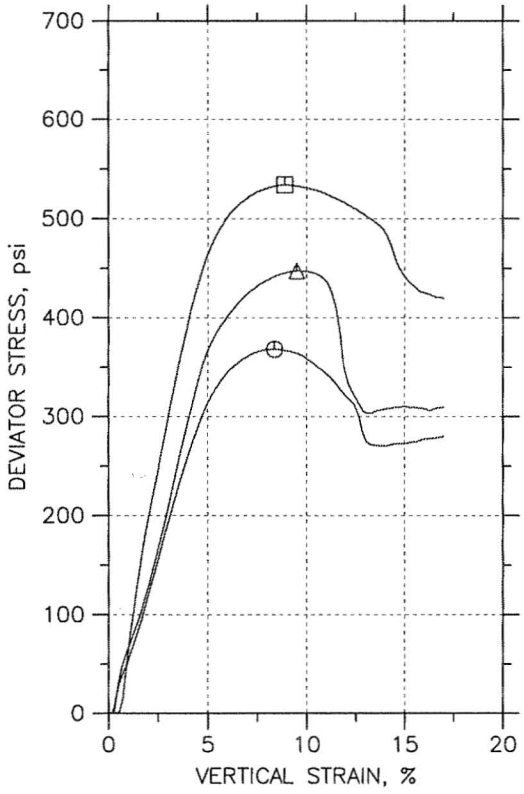
	Sample No.	Test No.	Depth	Tested By	Test Date	Checked By	Check Date	Test File
⦶	UD-5	7505.1	148.0 ft	HJ	6/13/07	JW		7505.1_2581a.dat
△	UD-5	7505.2	148.0 ft	HJ	6/13/07	JW	JW 7/31/07	7505.2_2582a.dat
⊡	UD-5	7505.3	148.0 ft	HJ	6/13/07	JW		7505.3_2583a.dat

MACTEC

Project: Vogtle COL	Location: B-3003	Project No.: 6141060286
Boring No.: B-3003	Sample Type: Undisturbed	
Description: CLAY (CH)		
Remarks:		

CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767

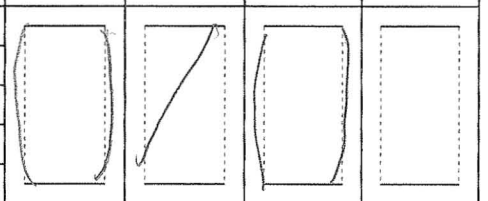




Symbol		⦶	△	⊡	
Sample No.		UD-6	UD-6	UD-6	
Test No.		7506.1	7506.2	7506.3	
Depth		163.0 ft	163.0 ft	163.0 ft	
Initial	Diameter, in	2.869	2.867	2.87	
	Height, in	5.664	5.586	5.611	
	Water Content, %	20.4	19.9	20.0	
	Dry Density, pcf	99.44	101.2	102.7	
	Saturation, %	81.6	83.2	86.8	
	Void Ratio	0.664	0.635	0.611	
Before Shear	Water Content, %	23.2	22.2	22.4	
	Dry Density, pcf	102.5	104.1	103.8	
	Saturation*, %	100.0	100.0	100.0	
	Void Ratio	0.615	0.589	0.594	
	Back Press., psi	77.99	75.99	30.	
Ver. Eff. Cons. Stress, psi		27.99	56.	116.	
Shear Strength, psi		183.9	223.5	266.9	
Strain at Failure, %		8.38	9.51	8.91	
Strain Rate, %/min		0.1	0.1	0.1	
B-Value		0.98	0.98	0.82	
Estimated Specific Gravity		2.65	2.65	2.65	
Liquid Limit		---	---	---	
Plastic Limit		---	---	---	

MACTEC

Project: Vogtle COL
Location: B-3003
Project No.: 6141060286
Boring No.: B-3003
Sample Type: Undisturbed
Description: SAND, clayey (SC) (Visual)
Remarks:



Phase calculations based on start and end of test.
* Saturation is set to 100% for phase calculations.

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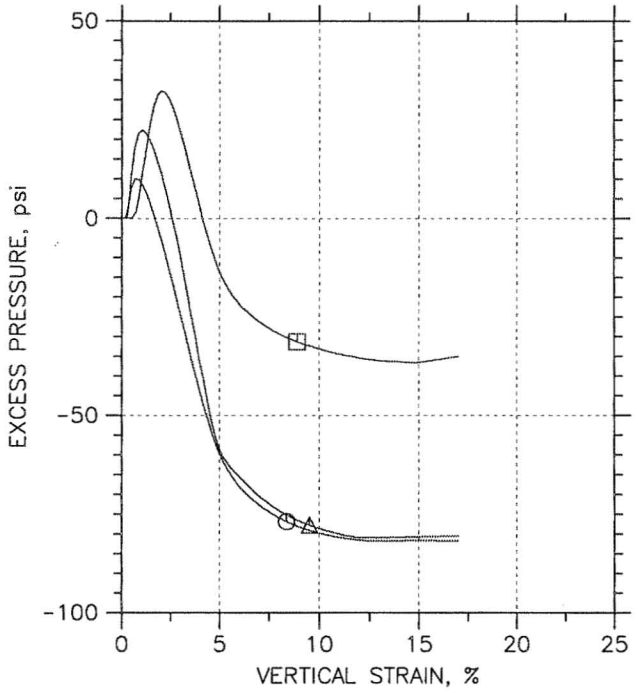
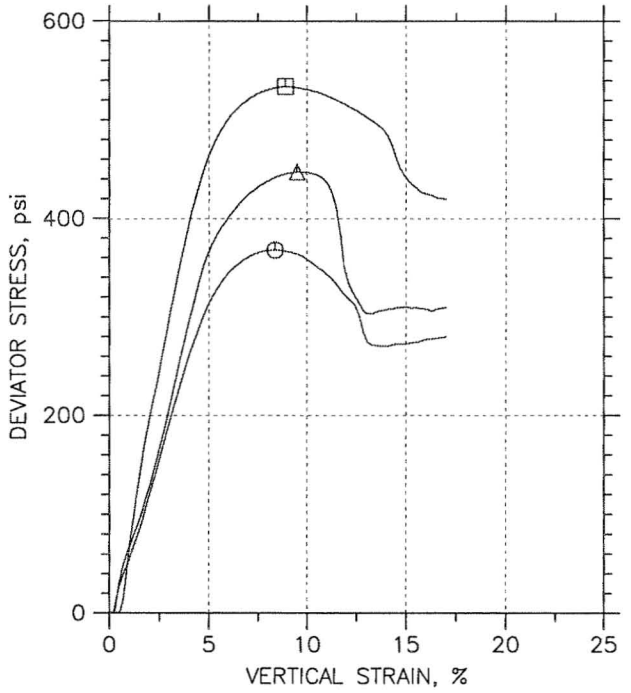
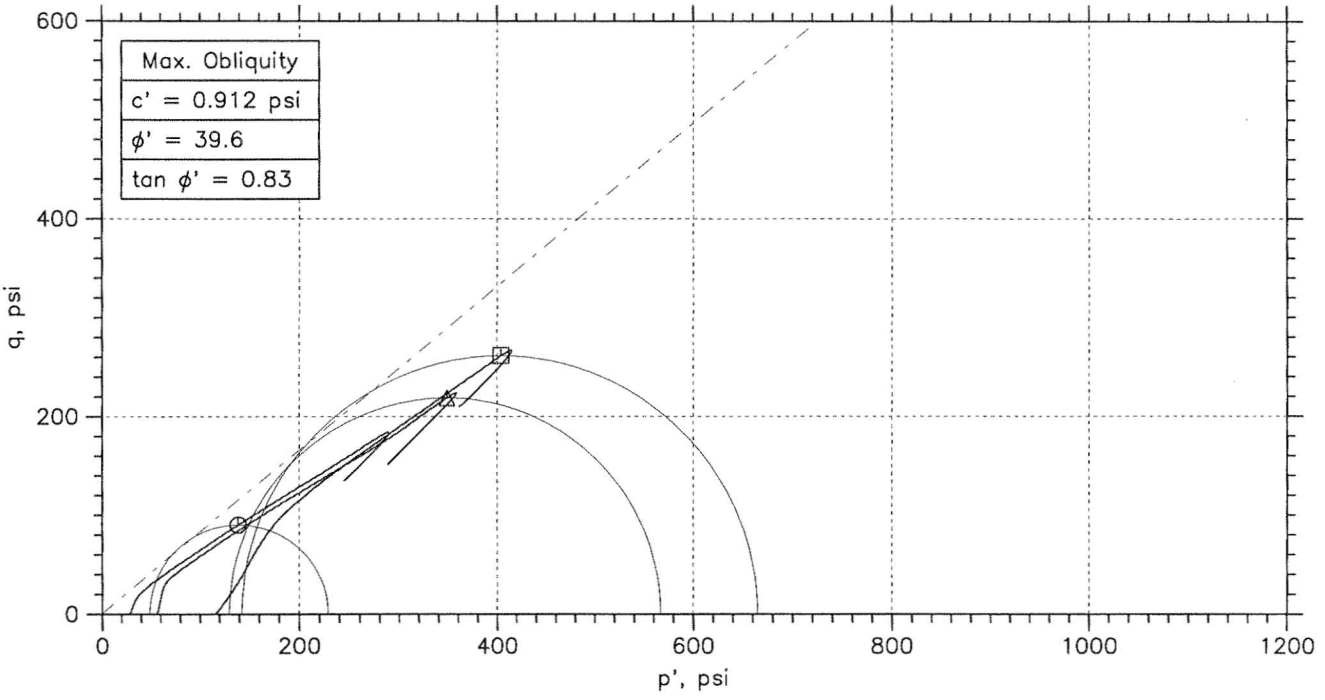
CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767





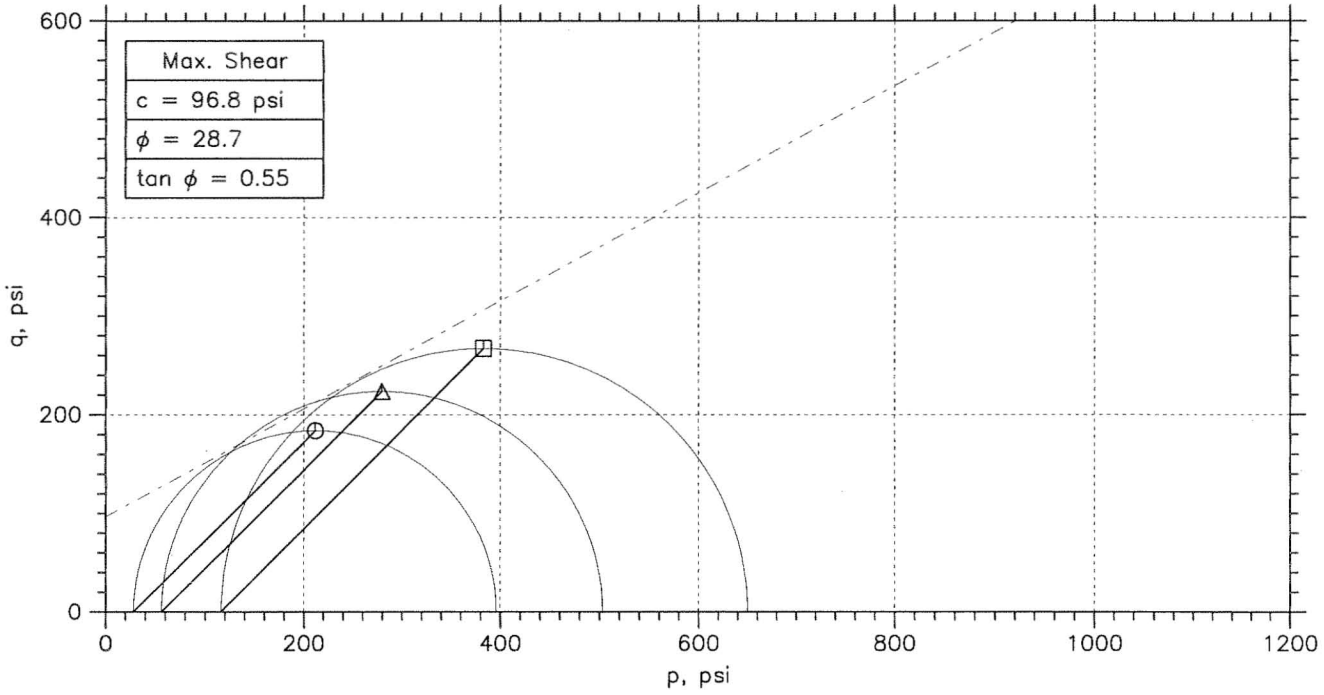


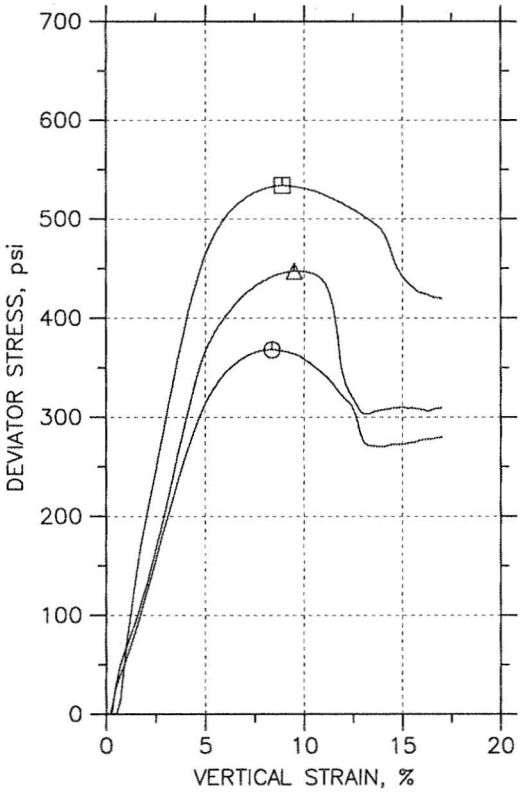
	Sample No.	Test No.	Depth	Tested By	Test Date	Checked By	Check Date	Test File
⏲	UD-6	7506.1	163.0 ft	JW	7/6/07	HJ		7506.1_2581.dat
△	UD-6	7506.2	163.0 ft	JW	7/6/07	HJ	7/31/07	7506.2_2583.dat
⊡	UD-6	7506.3	163.0 ft	JW	7/6/07	HJ		7506.3_2582.dat

MACTEC

Project: Vogtle COL	Location: B-3003	Project No.: 6141060286
Boring No.: B-3003	Sample Type: Undisturbed	
Description: SAND, clayey (SC) (Visual)		
Remarks:		

CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767

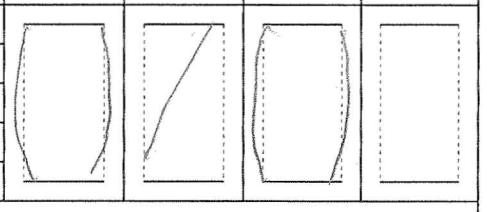




Symbol		⊙	△	⊡	
Sample No.		UD-6	UD-6	UD-6	
Test No.		7506.1	7506.2	7506.3	
Depth		163.0 ft	163.0 ft	163.0 ft	
Initial	Diameter, in	2.869	2.867	2.87	
	Height, in	5.664	5.586	5.611	
	Water Content, %	20.4	19.9	20.0	
	Dry Density, pcf	99.44	101.2	102.7	
	Saturation, %	81.6	83.2	86.8	
	Void Ratio	0.664	0.635	0.611	
Before Shear	Water Content, %	23.2	22.2	22.4	
	Dry Density, pcf	102.5	104.1	103.8	
	Saturation*, %	100.0	100.0	100.0	
	Void Ratio	0.615	0.589	0.594	
	Back Press., psi	77.99	75.99	30.	
Ver. Eff. Cons. Stress, psi		27.99	56.	116.	
Shear Strength, psi		183.9	223.5	266.9	
Strain at Failure, %		8.38	9.51	8.91	
Strain Rate, %/min		0.1	0.1	0.1	
B-Value		0.98	0.98	0.82	
Estimated Specific Gravity		2.65	2.65	2.65	
Liquid Limit		---	---	---	
Plastic Limit		---	---	---	

MACTEC

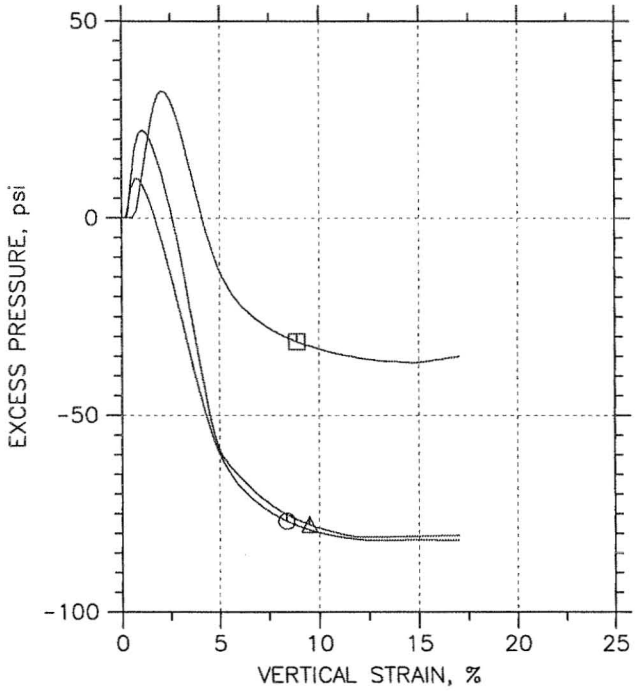
Project: Vogtle COL
Location: B-3003
Project No.: 6141060286
Boring No.: B-3003
Sample Type: Undisturbed
Description: SAND, clayey (SC) (Visual)
Remarks:

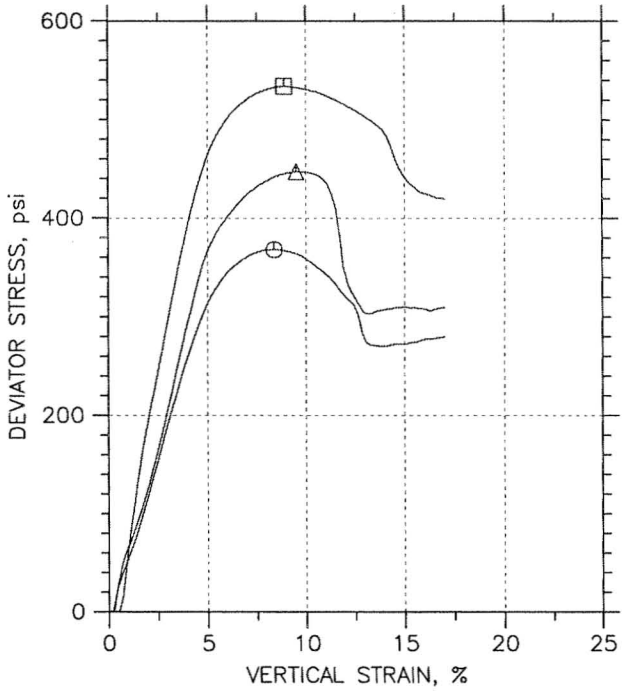


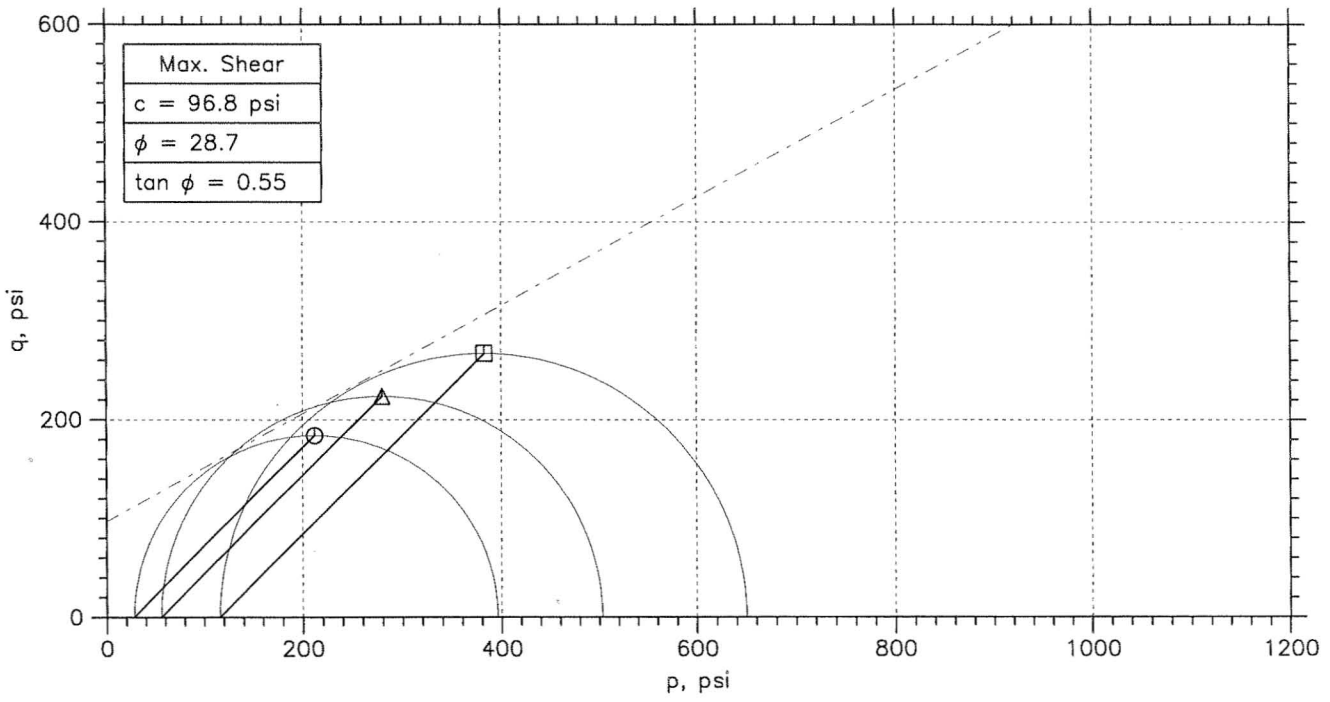
Phase calculations based on start and end of test.
* Saturation is set to 100% for phase calculations.

Mon, 30-JUL-2007 15:21:22

CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767







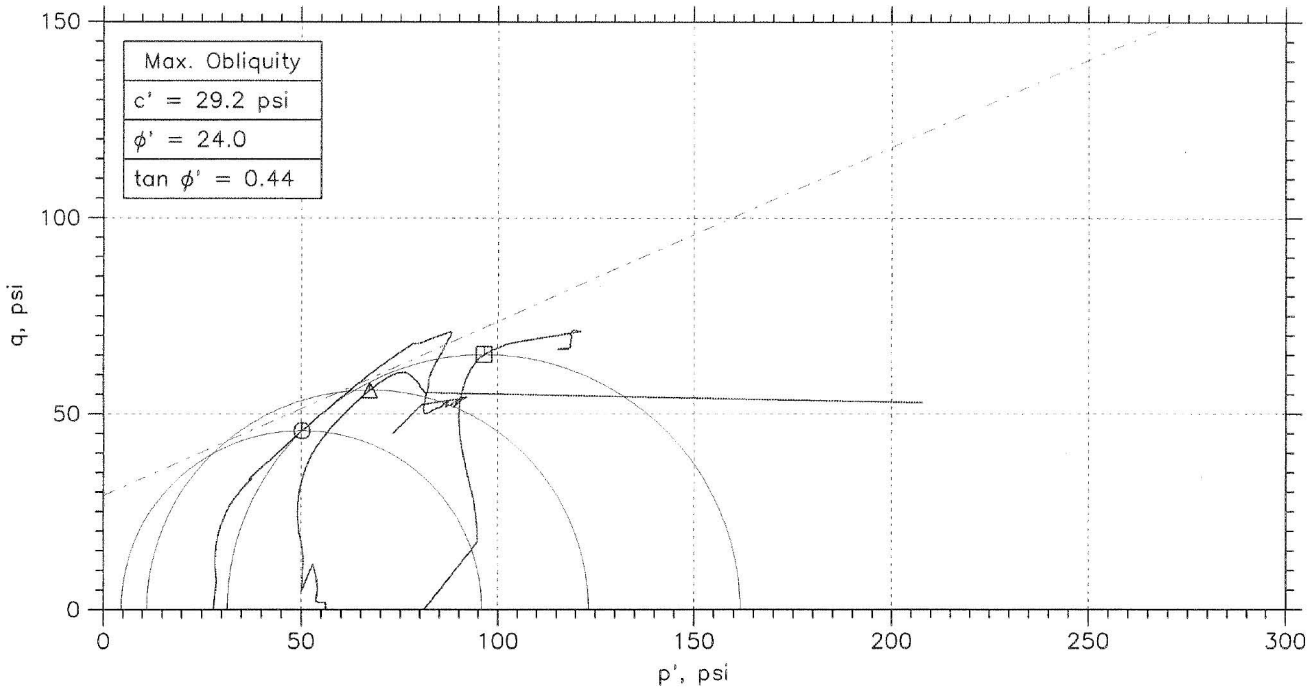
	Sample No.	Test No.	Depth	Tested By	Test Date	Checked By	Check Date	Test File
⦶	UD-6	7506.1	163.0 ft	JW	7/6/07	HJ		7506.1_2581.dat
△	UD-6	7506.2	163.0 ft	JW	7/6/07	HJ	7/31/07	7506.2_2583.dat
⊡	UD-6	7506.3	163.0 ft	JW	7/6/07	HJ		7506.3_2582.dat

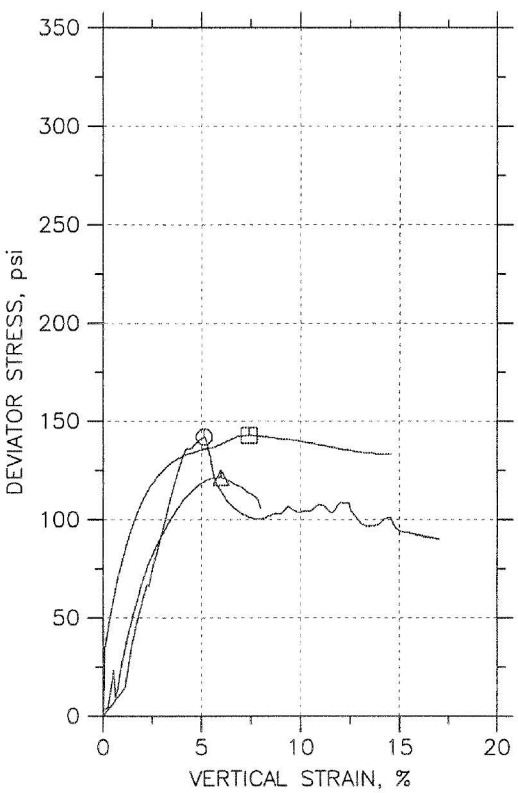
MACTEC

Project: Vogtle COL	Location: B-3003	Project No.: 6141060286
Boring No.: B-3003	Sample Type: Undisturbed	
Description: SAND, clayey (SC) (Visual)		
Remarks:		

Mon, 30-JUL-2007 15:21:22

CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767





Symbol		⦶	△	⊡	
Sample No.		UD-1	UD-1	UD-1	
Test No.		7507.1	7507.2	7507.3	
Depth		93.0 ft	93.0 ft	93.0 ft	
Initial	Diameter, in	2.88	2.88	2.877	
	Height, in	6	6	6	
	Water Content, %	42.0	39.9	31.2	
	Dry Density, pcf	74.56	76.1	79.5	
	Saturation, %	90.0	88.6	75.2	
	Void Ratio	1.26	1.21	1.12	
Before Shear	Water Content, %	43.7	39.5	31.0	
	Dry Density, pcf	76.83	81.6	91.71	
	Saturation*, %	98.9	100.0	100.0	
	Void Ratio	1.19	1.07	0.838	
	Back Press., psi	83.99	85.93	34.97	
Ver. Eff. Cons. Stress, psi		28.	55.99	112.	
Shear Strength, psi		70.95	60.59	71.29	
Strain at Failure, %		5.15	6	7.43	
Strain Rate, %/min		0.05	0.05	0.05	
B-Value		0.96	0.96	0.97	
Estimated Specific Gravity		2.7	2.7	2.7	
Liquid Limit		97	97	97	
Plastic Limit		53	53	53	

MACTEC

Project: Vogtle COL

Location: B-3004

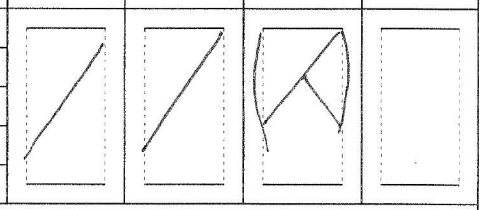
Project No.: 6141060286

Boring No.: B-3004

Sample Type: Undisturbed

Description: SILT (MH)

Remarks:

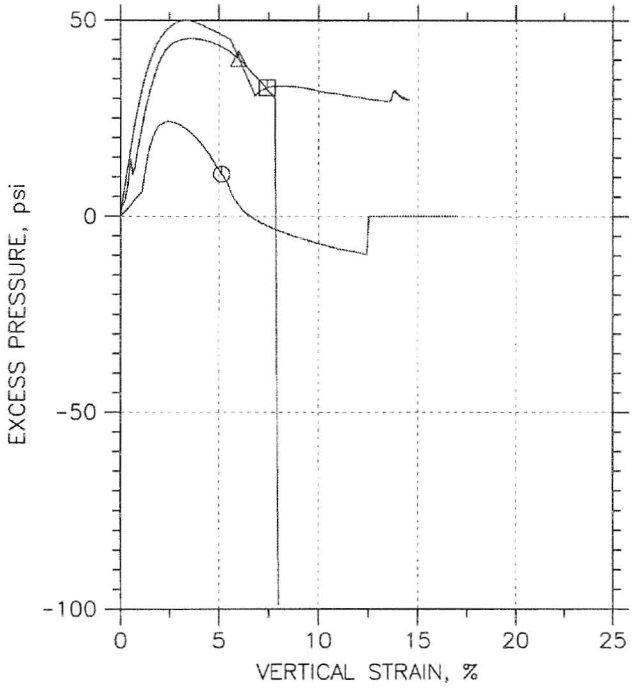


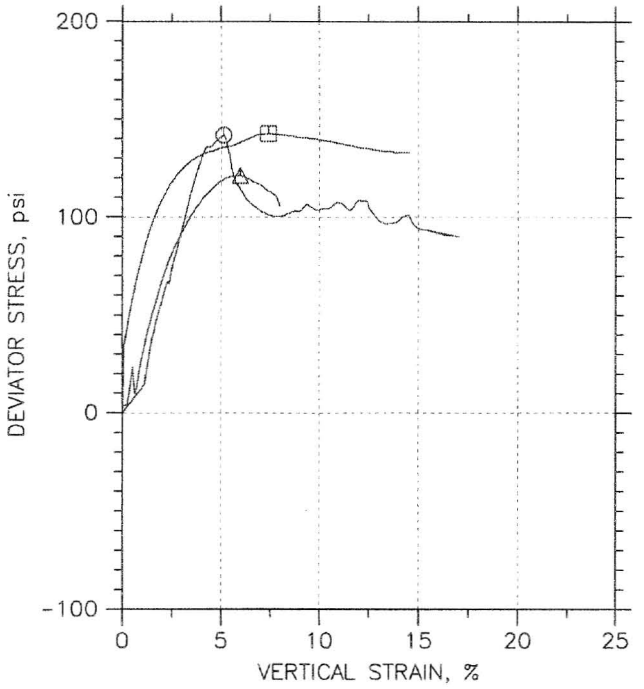
Phase calculations based on start and end of test.

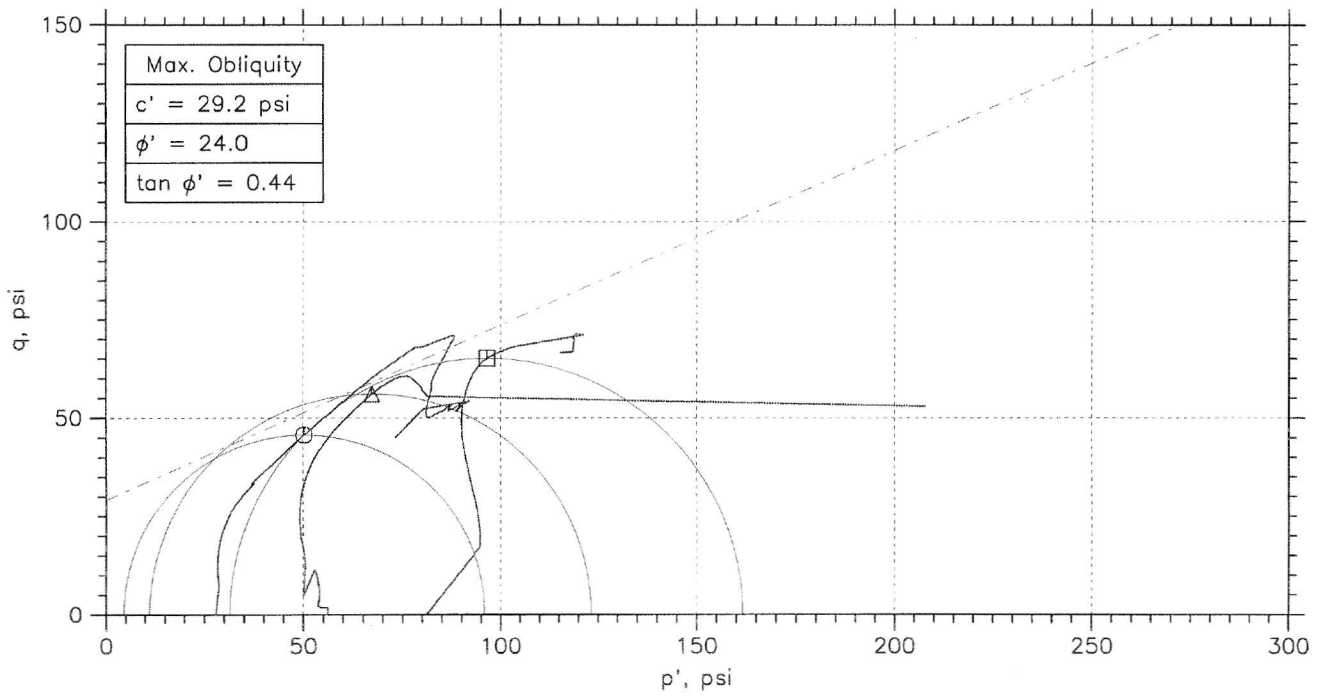
* Saturation is set to 100% for phase calculations.

Thu, 27-SEP-2007 14:28:35

CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767







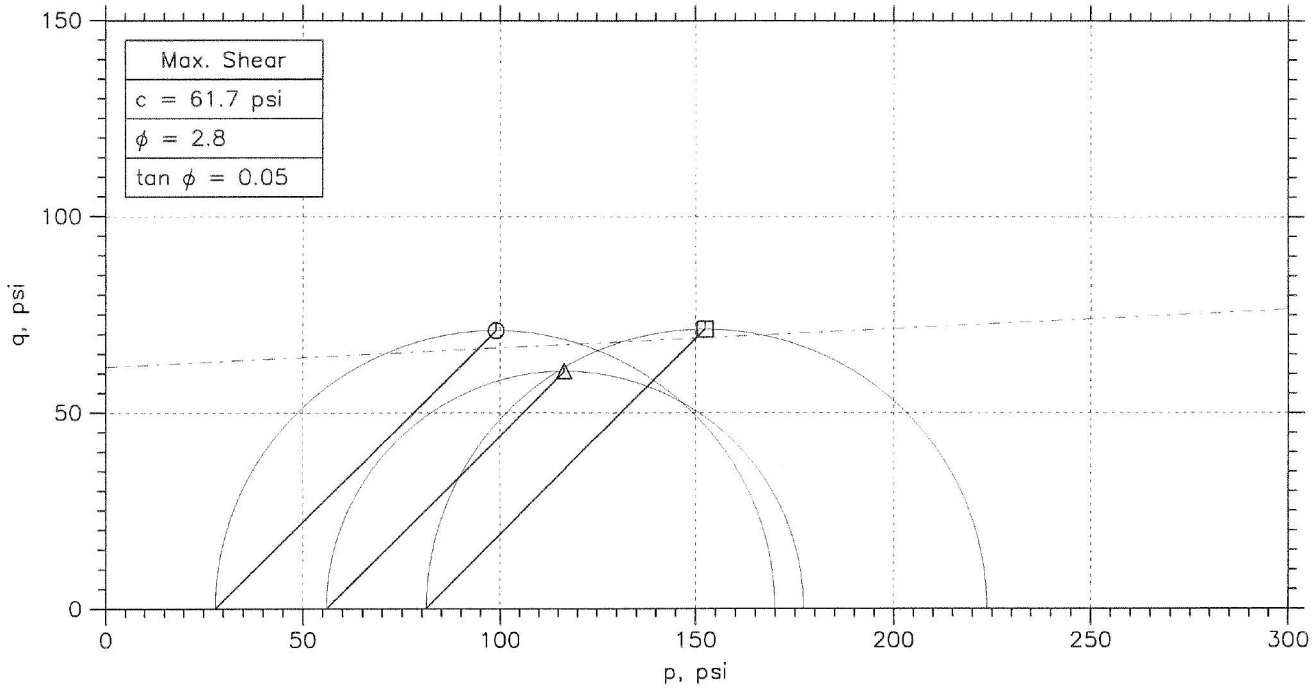
	Sample No.	Test No.	Depth	Tested By	Test Date	Checked By	Check Date	Test File
⊙	UD-1	7507.1	93.0 ft	HJ	6/7/07	JW		7507.1_2546a.dat
△	UD-1	7507.2	93.0 ft	HJ	6/7/07	JW		7507.2_2545.dat
⊡	UD-1	7507.3	93.0 ft	HJ	6/7/07	JW		7507.3_2547a.dat

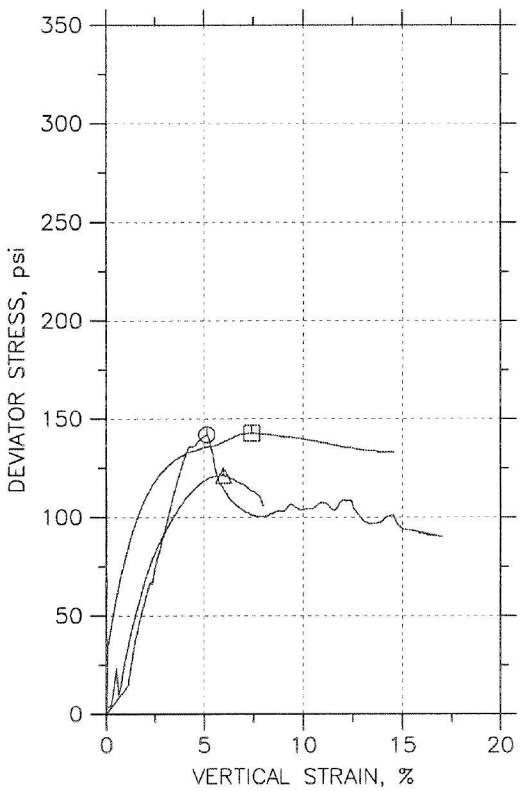
MACTEC

Project: Vogtle COL	Location: B-3004	Project No.: 6141060286
Boring No.: B-3004	Sample Type: Undisturbed	
Description: SILT (MH)		
Remarks:		

Thu, 27-SEP-2007 13:48:22

CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767

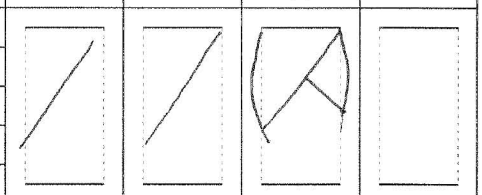




Symbol		⏲	△	⊡	
Sample No.		UD-1	UD-1	UD-1	
Test No.		7507.1	7507.2	7507.3	
Depth		93.0 ft	93.0 ft	93.0 ft	
Initial	Diameter, in	2.88	2.88	2.877	
	Height, in	6	6	6	
	Water Content, %	42.0	39.9	31.2	
	Dry Density, pcf	74.56	76.1	79.5	
	Saturation, %	90.0	88.6	75.2	
	Void Ratio	1.26	1.21	1.12	
Before Shear	Water Content, %	43.7	39.5	31.0	
	Dry Density, pcf	76.83	81.6	91.71	
	Saturation*, %	98.9	100.0	100.0	
	Void Ratio	1.19	1.07	0.838	
	Back Press., psi	83.99	85.93	34.97	
Ver. Eff. Cons. Stress, psi		28.	55.99	112.	
Shear Strength, psi		70.95	60.59	71.29	
Strain at Failure, %		5.15	6	7.43	
Strain Rate, %/min		0.05	0.05	0.05	
B-Value		0.96	0.96	0.97	
Estimated Specific Gravity		2.7	2.7	2.7	
Liquid Limit		97	97	97	
Plastic Limit		53	53	53	

MACTEC

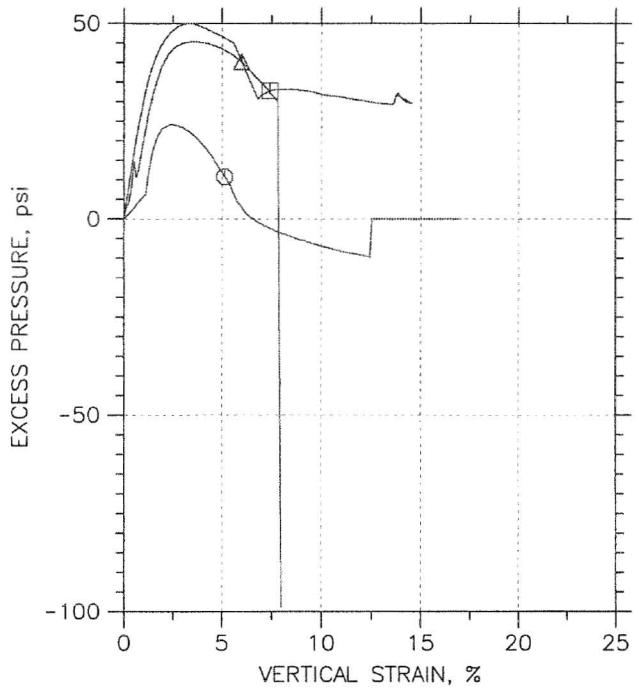
Project: Vogtle COL
Location: B-3004
Project No.: 6141060286
Boring No.: B-3004
Sample Type: Undisturbed
Description: SILT (MH)
Remarks:

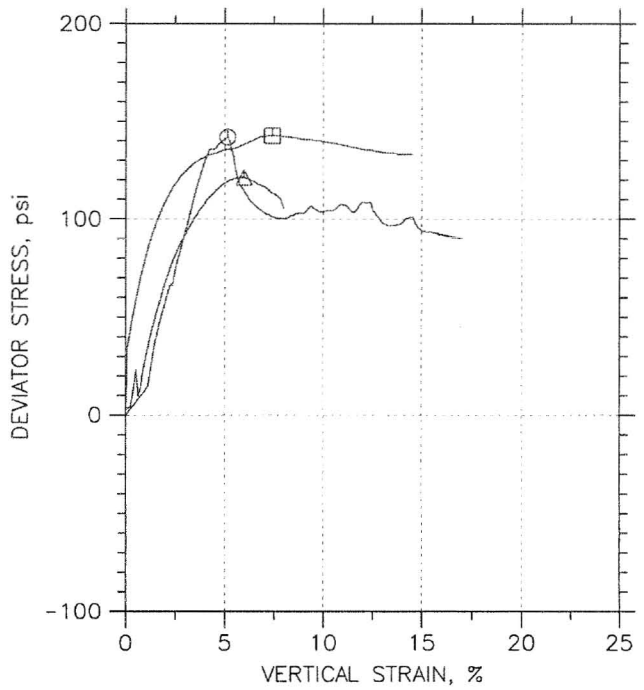


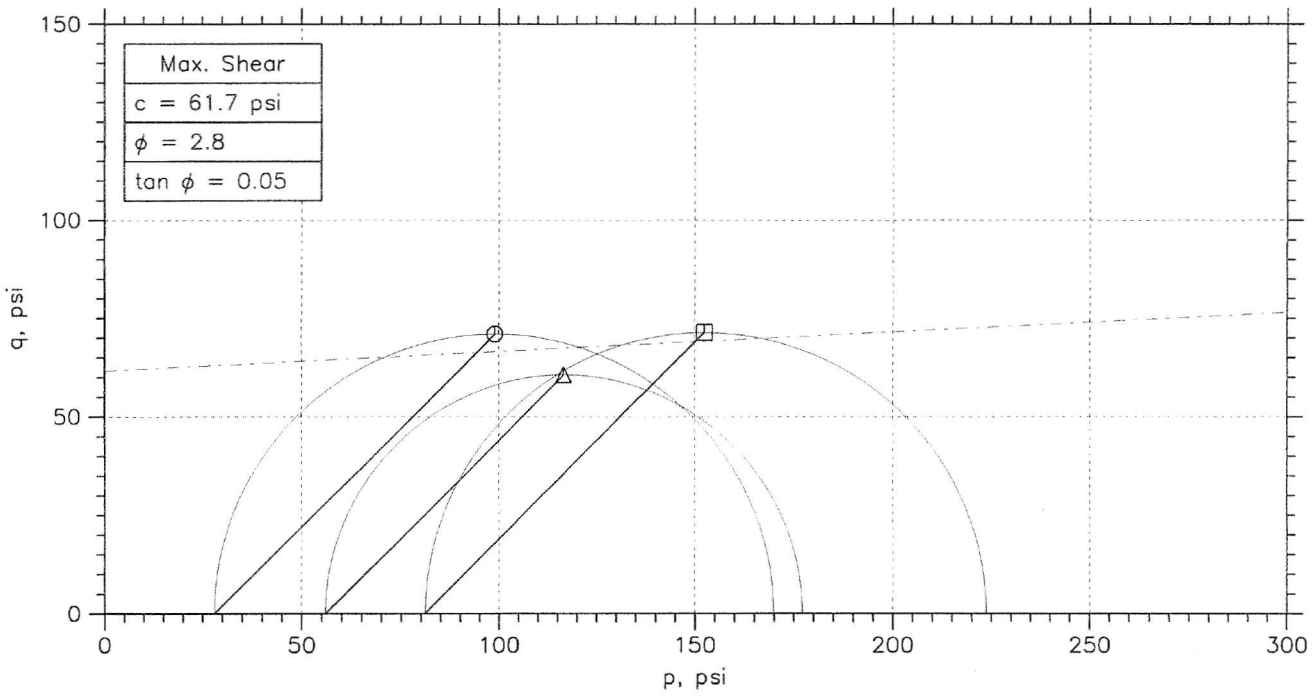
Phase calculations based on start and end of test.
* Saturation is set to 100% for phase calculations.

Thu, 27-SEP-2007 13:49:28

CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767







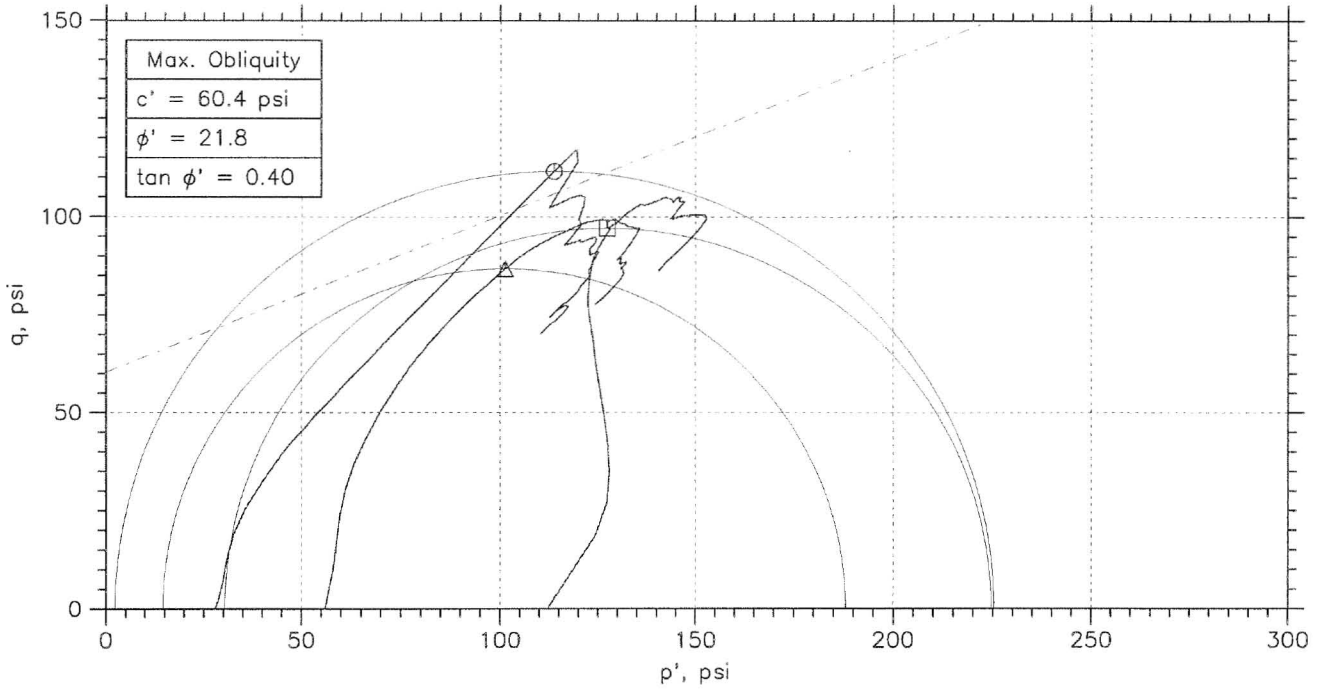
	Sample No.	Test No.	Depth	Tested By	Test Date	Checked By	Check Date	Test File
⊙	UD-1	7507.1	93.0 ft	HJ	6/7/07	JW		7507.1_2546a.dat
△	UD-1	7507.2	93.0 ft	HJ	6/7/07	JW		7507.2_2545.dat
⊡	UD-1	7507.3	93.0 ft	HJ	6/7/07	JW		7507.3_2547a.dat

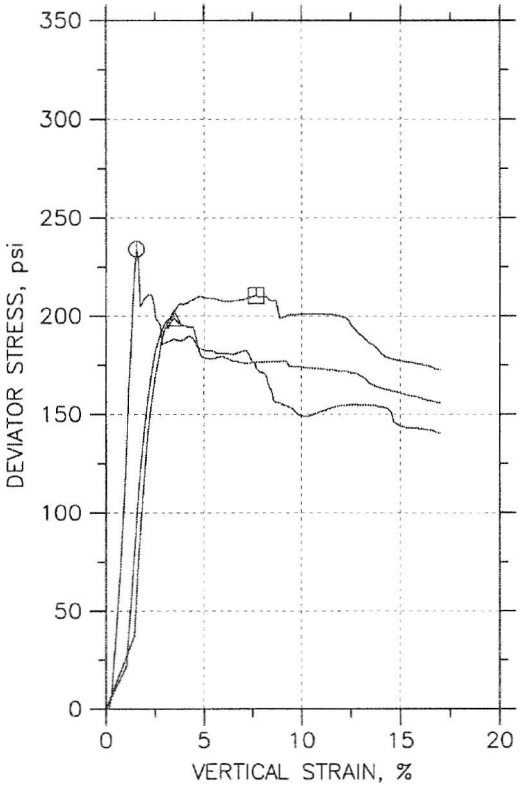
MACTEC

Project: Vogtle COL	Location: B-3004	Project No.: 6141060286
Boring No.: B-3004	Sample Type: Undisturbed	
Description: SILT (MH)		
Remarks:		

Thu, 27-SEP-2007 13:49:28

CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767





Symbol		⦶	△	⊡	
Sample No.		UD-4	UD-4	UD-4	
Test No.		7512.1	7512.2	7512.3	
Depth		138..0 ft	138.0 ft	138.0 ft	
Initial	Diameter, in	2.867	2.872	2.875	
	Height, in	6	6	6	
	Water Content, %	16.8	27.0	25.0	
	Dry Density, pcf	103.	97.28	100.1	
	Saturation, %	71.0	99.5	98.9	
	Void Ratio	0.637	0.733	0.684	
Before Shear	Water Content, %	16.6	26.4	24.2	
	Dry Density, pcf	116.4	98.37	102.	
	Saturation*, %	100.0	100.0	100.0	
	Void Ratio	0.448	0.714	0.652	
	Back Press., psi	50.	86.	35.99	
Ver. Eff. Cons. Stress, psi		28.	55.99	112.	
Shear Strength, psi		117.	99.44	105.1	
Strain at Failure, %		1.56	3.47	7.7	
Strain Rate, %/min		0.05	0.05	0.05	
B-Value		0.98	0.99	0.99	
Estimated Specific Gravity		2.7	2.7	2.7	
Liquid Limit		52	52	52	
Plastic Limit		24	24	24	

MACTEC

Project: Vogtle COL

Location: B-3005

Project No.: 6141060286

Boring No.: B-3005

Sample Type: Undisturbed

Description: CLAY (CH)

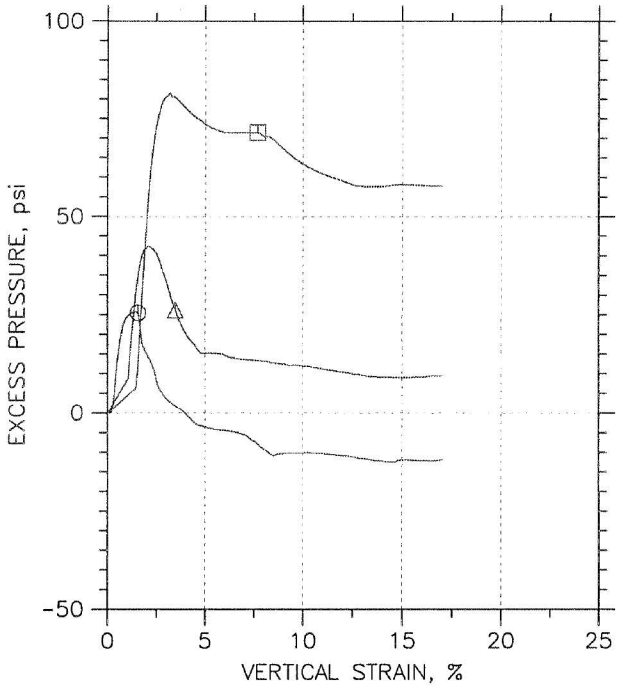
Remarks:

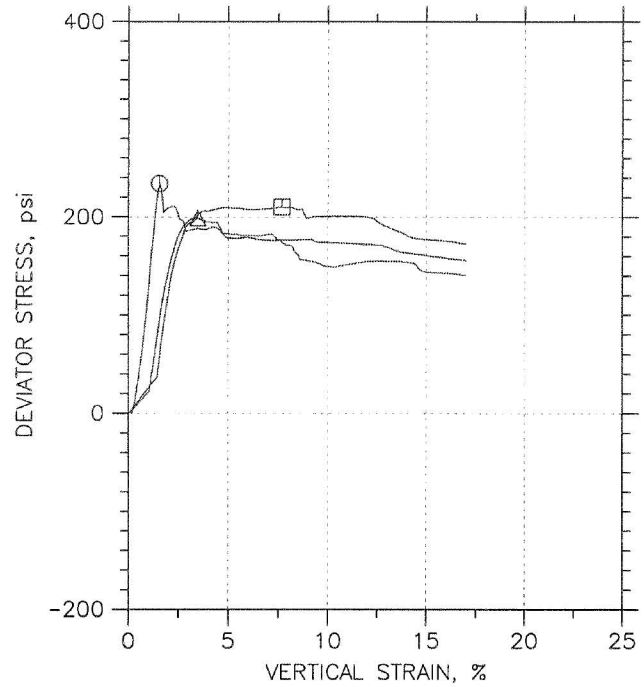
Phase calculations based on start and end of test.

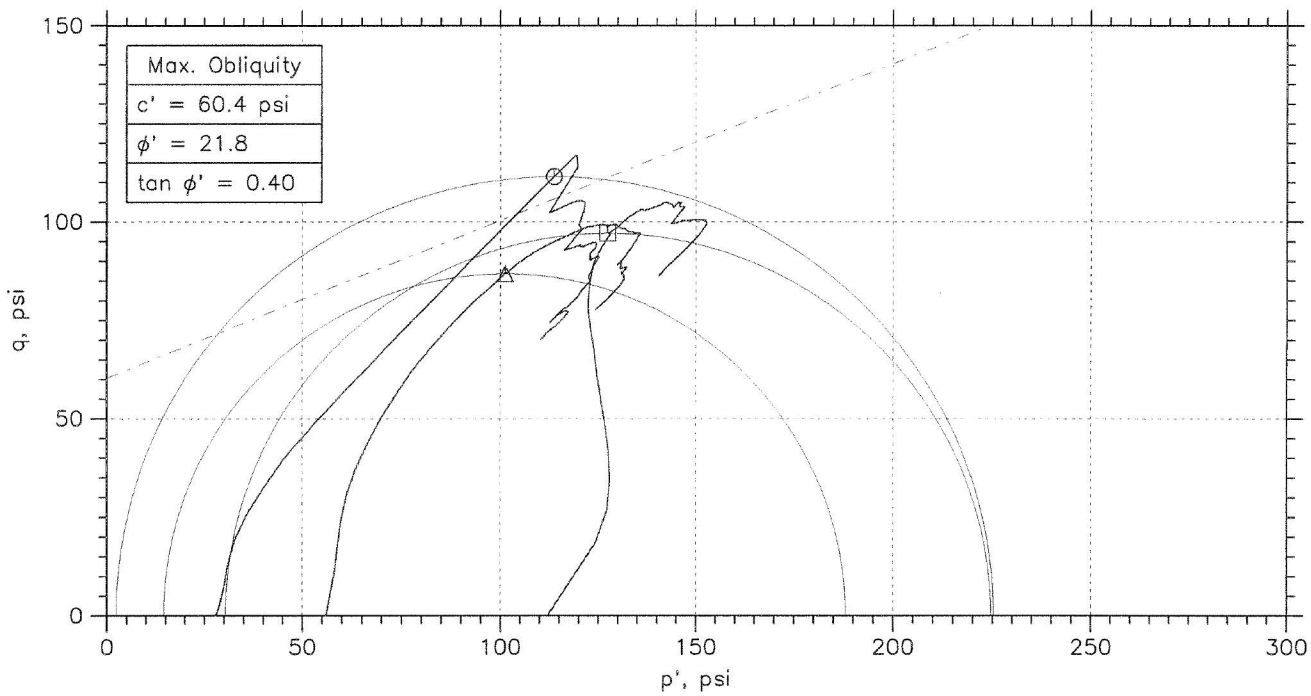
* Saturation is set to 100% for phase calculations.

Thu, 27-SEP-2007 13:54:22

CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767







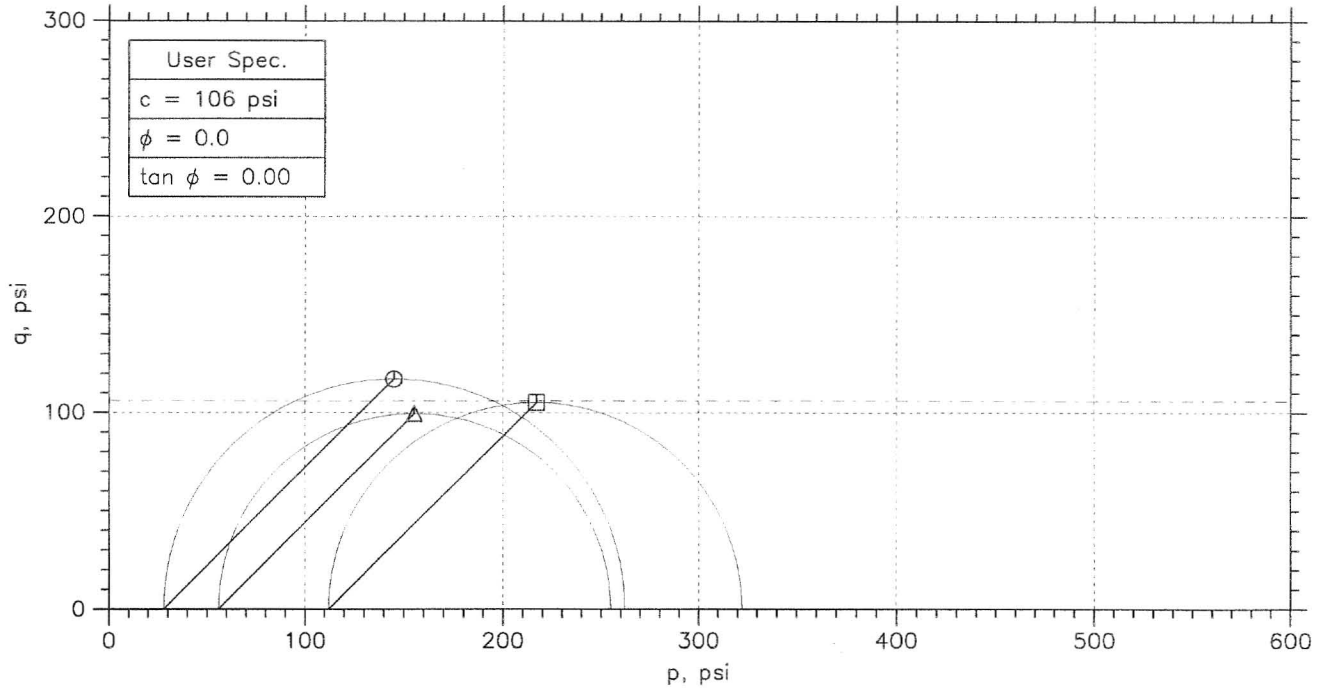
	Sample No.	Test No.	Depth	Tested By	Test Date	Checked By	Check Date	Test File
○	UD-4	7512.1	138..0 ft	HJ	6/8/07	JW		7512.1_2583.dat
△	UD-4	7512.2	138.0 ft	HJ	6/8/07	JW		7512.2_2582a.dat
□	UD-4	7512.3	138.0 ft	HJ	6/8/2007	JW		7512.3_2581a.dat

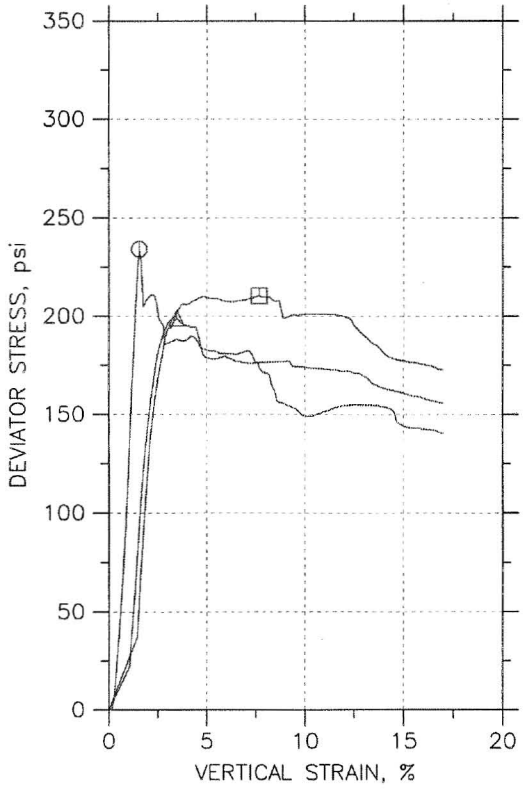
MACTEC

Project: Vogtle COL	Location: B-3005	Project No.: 6141060286
Boring No.: B-3005	Sample Type: Undisturbed	
Description: CLAY (CH)		
Remarks:		

Thu, 27-SEP-2007 13:54:22

CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767

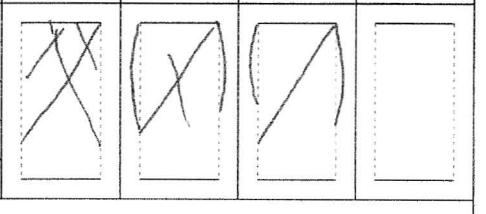




Symbol		⦶	△	⊡	
Sample No.		UD-4	UD-4	UD-4	
Test No.		7512.1	7512.2	7512.3	
Depth		138..0 ft	138.0 ft	138.0 ft	
Initial	Diameter, in	2.867	2.872	2.875	
	Height, in	6	6	6	
	Water Content, %	16.8	27.0	25.0	
	Dry Density, pcf	103.	97.28	100.1	
	Saturation, %	71.0	99.5	98.9	
	Void Ratio	0.637	0.733	0.684	
Before Shear	Water Content, %	16.6	26.4	24.2	
	Dry Density, pcf	116.4	98.37	102.	
	Saturation*, %	100.0	100.0	100.0	
	Void Ratio	0.448	0.714	0.652	
	Back Press., psi	50.	86.	35.99	
Ver. Eff. Cons. Stress, psi		28.	55.99	112.	
Shear Strength, psi		117.	99.44	105.1	
Strain at Failure, %		1.56	3.47	7.7	
Strain Rate, %/min		0.05	0.05	0.05	
B-Value		0.98	0.99	0.99	
Estimated Specific Gravity		2.7	2.7	2.7	
Liquid Limit		52	52	52	
Plastic Limit		24	24	24	

MACTEC

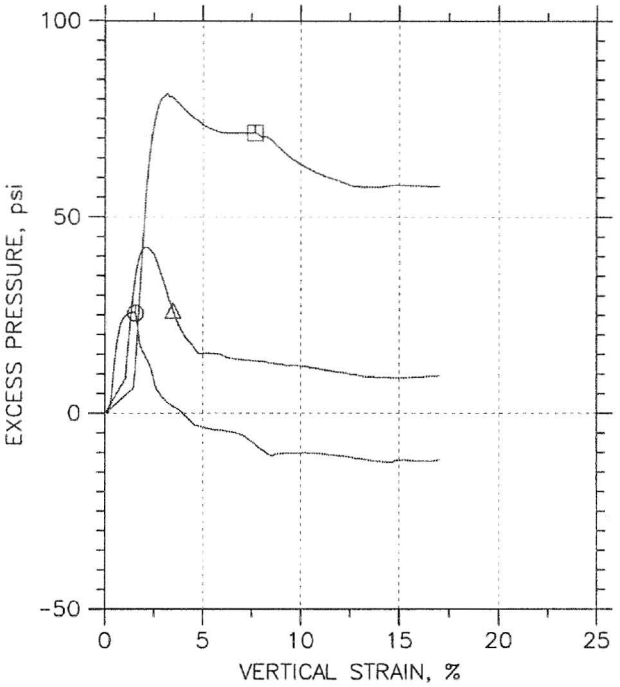
Project: Vogtle COL
Location: B-3005
Project No.: 6141060286
Boring No.: B-3005
Sample Type: Undisturbed
Description: CLAY (CH)
Remarks:

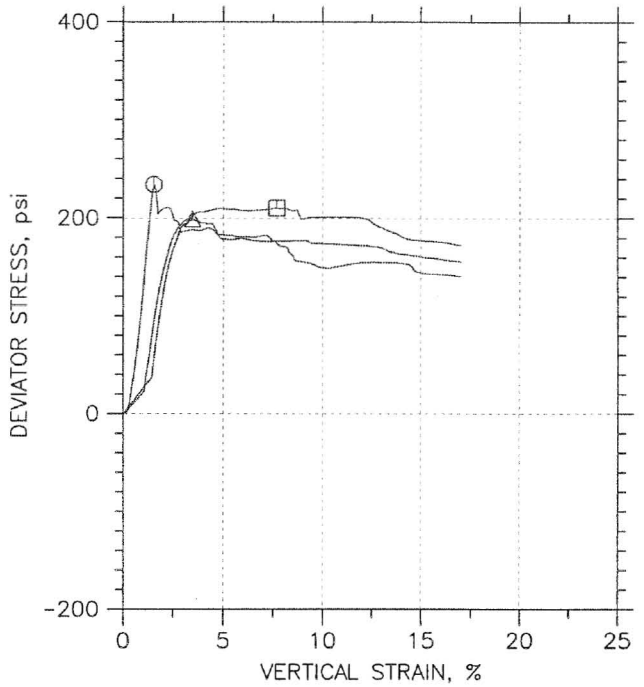


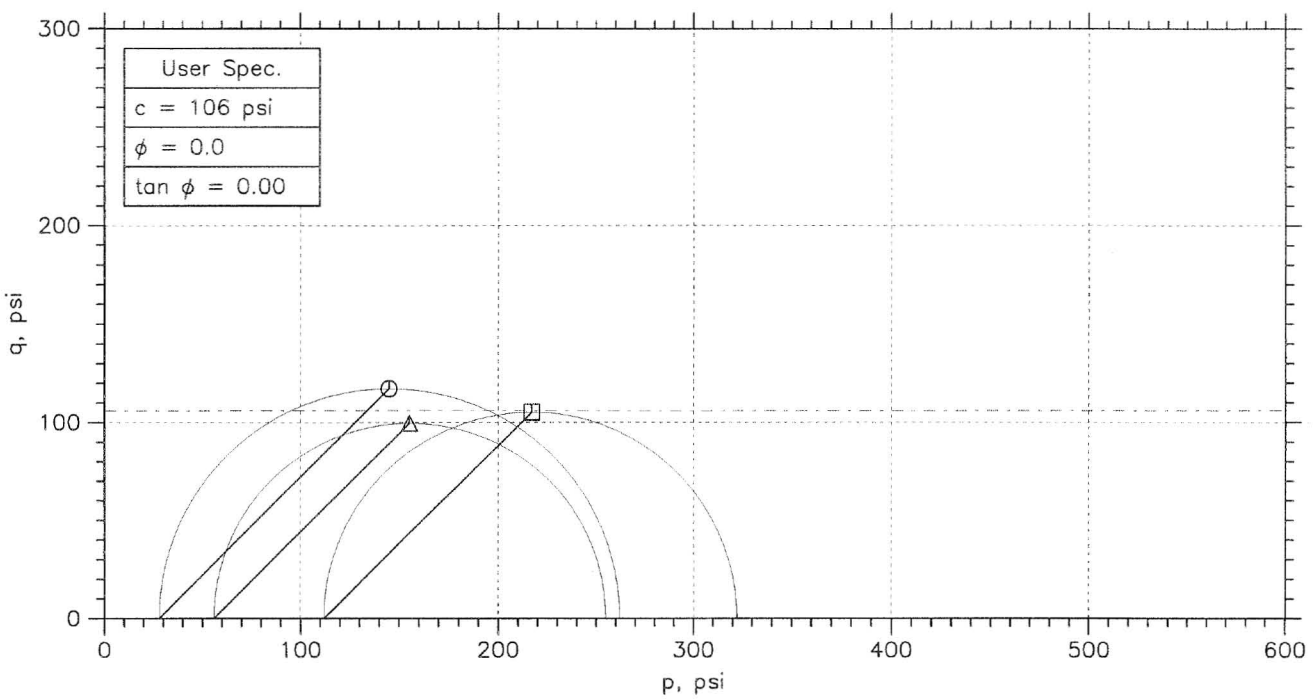
Phase calculations based on start and end of test.

* Saturation is set to 100% for phase calculations.

CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767







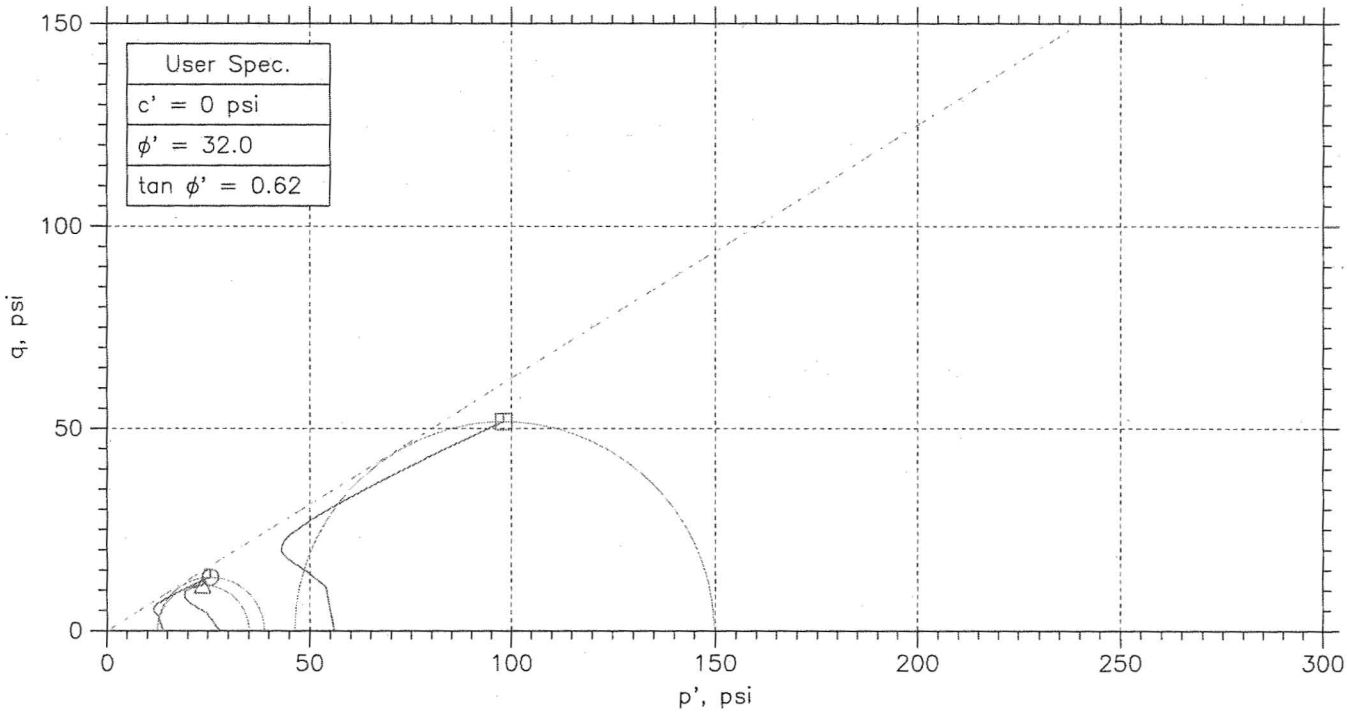
	Sample No.	Test No.	Depth	Tested By	Test Date	Checked By	Check Date	Test File
⦶	UD-4	7512.1	138..0 ft	HJ	6/8/07	JW		7512.1_2583.dat
△	UD-4	7512.2	138.0 ft	HJ	6/8/07	JW		7512.2_2582a.dat
⊡	UD-4	7512.3	138.0 ft	HJ	6/8/2007	JW		7512.3_2581a.dat

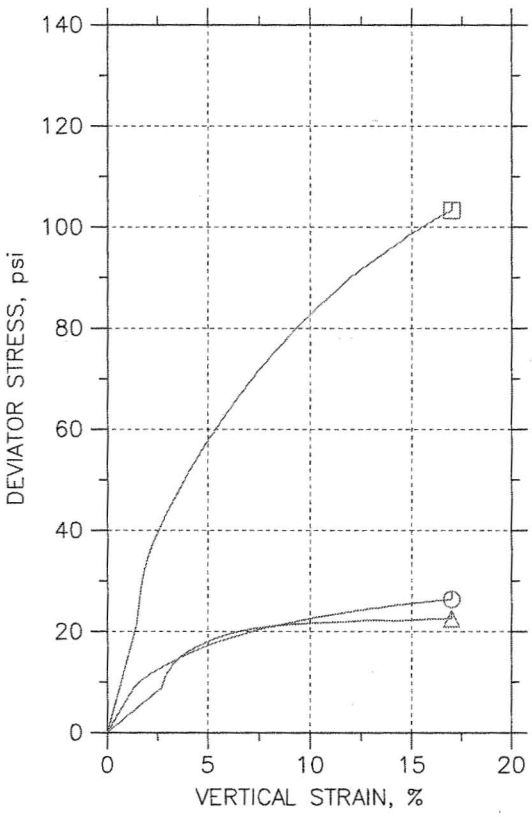
MACTEC

Project: Vogtle COL	Location: B-3005	Project No.: 6141060286
Boring No.: B-3005	Sample Type: Undisturbed	
Description: CLAY (CH)		
Remarks:		

Thu, 27-SEP-2007 13:55:53

CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767





Symbol		⏲	△	⊡	
Sample No.		UD-1	UD-1	UD-1	
Test No.		7543.1	7543.2	7543.3	
Depth		28.5 ft	28.5 ft	28.5 ft	
Initial	Diameter, in	2.874	2.858	2.867	
	Height, in	5.618	5.616	5.611	
	Water Content, %	19.1	30.8	12.8	
	Dry Density, pcf	97.76	81.53	100.7	
	Saturation, %	73.3	79.2	53.0	
	Void Ratio	0.692	1.03	0.642	
Before Shear	Water Content, %	23.9	34.6	22.5	
	Dry Density, pcf	101.3	86.33	103.6	
	Saturation*, %	100.0	100.0	100.0	
	Void Ratio	0.633	0.916	0.597	
	Back Press., psi	90.	136.	150.	
Ver. Eff. Cons. Stress, psi		14.	28.	56.	
Shear Strength, psi		13.18	11.27	51.67	
Strain at Failure, %		17	17	17	
Strain Rate, %/min		0.1	0.1	0.1	
B-Value		0.97	0.97	0.97	
Estimated Specific Gravity		2.65	2.65	2.65	
Liquid Limit		---	---	---	
Plastic Limit		---	---	---	

MACTEC

Project: Votgle COL

Location: B-3026

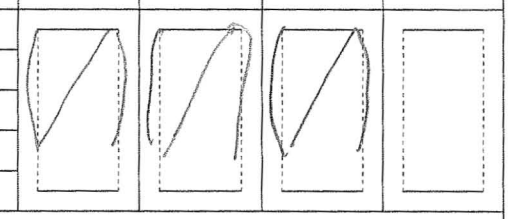
Project No.: 6141060286

Boring No.: B-3026

Sample Type: Undisturbed

Description: SAND, clayey (SC) (Visual)

Remarks:

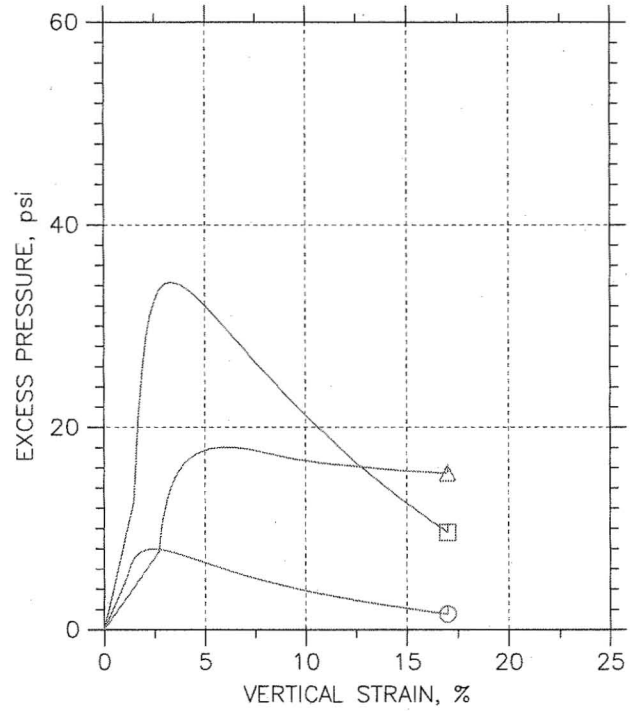


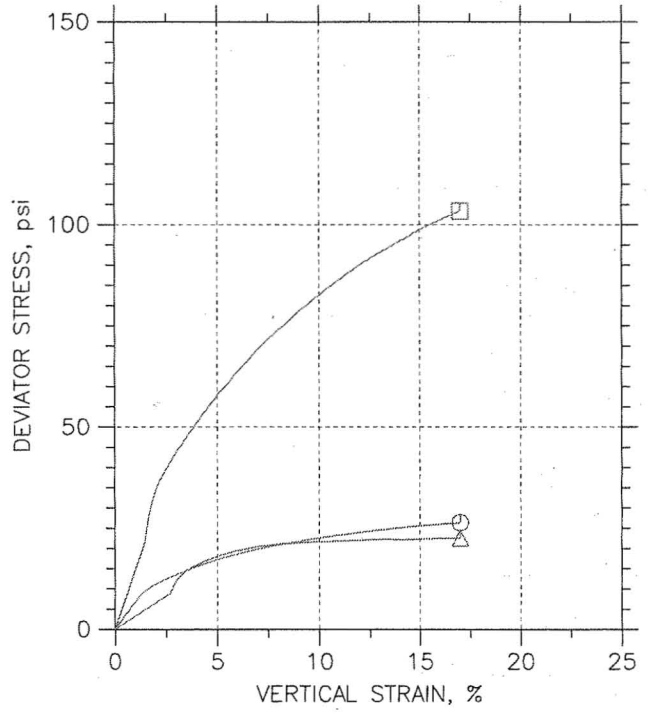
Phase calculations based on start and end of test.

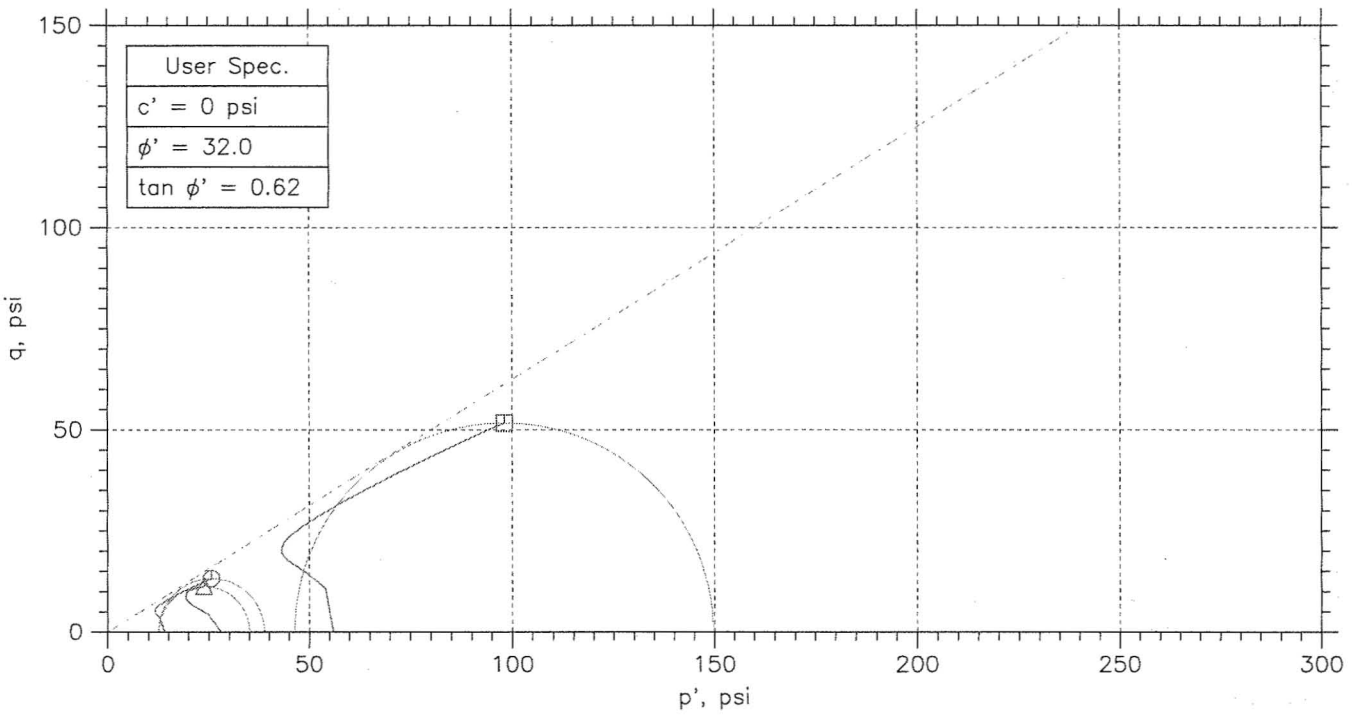
* Saturation is set to 100% for phase calculations.

Tue, 31-JUL-2007 10:39:20

CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767







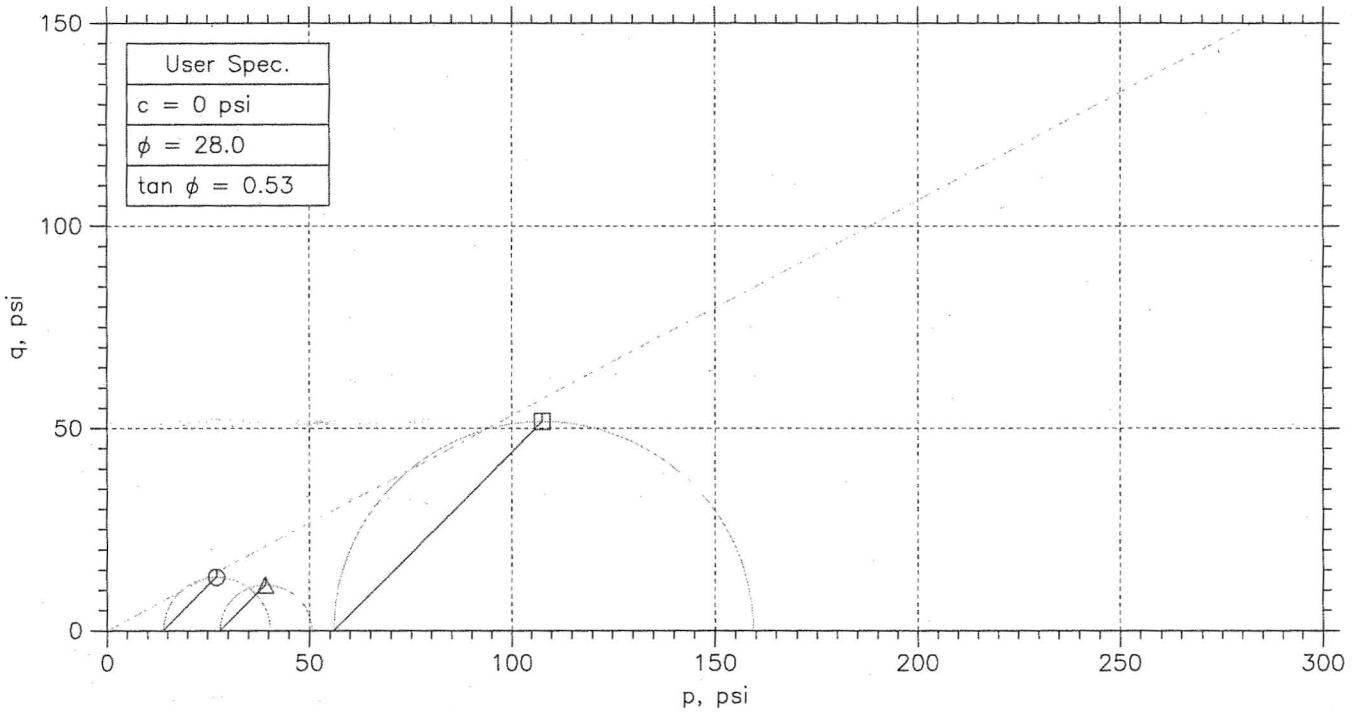
	Sample No.	Test No.	Depth	Tested By	Test Date	Checked By	Check Date	Test File
⊙	UD-1	7543.1	28.5 ft	HJ	7/25/07	JW		7543.1_2583a.dat
△	UD-1	7543.2	28.5 ft	HJ	7/25/07	JW	JW 7/31/07	7543.2_2581a.dat
□	UD-1	7543.3	28.5 ft	HJ	7/25/07	JW		7543.3_2582a.dat

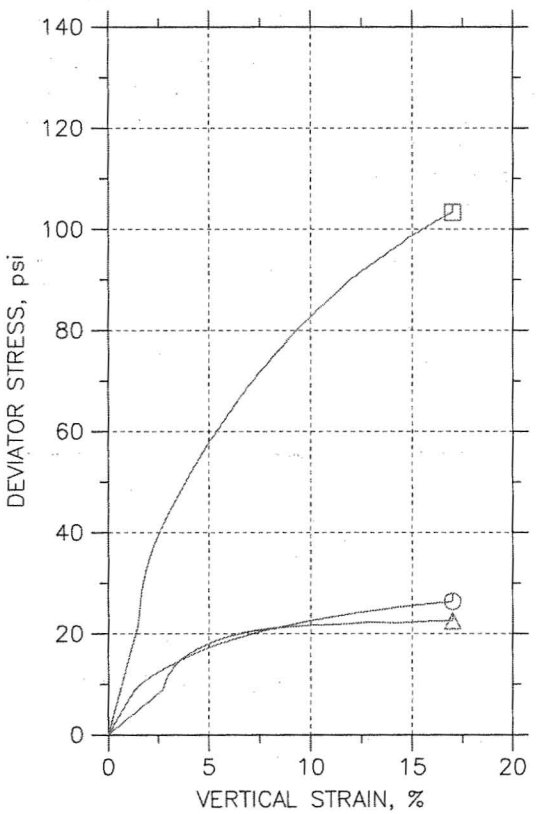
MACTEC

Project: Votgle COL	Location: B-3026	Project No.: 6141060286
Boring No.: B-3026	Sample Type: Undisturbed	
Description: SAND, clayey (SC) (Visual)		
Remarks:		

Tue, 31-JUL-2007 10:39:21

CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767

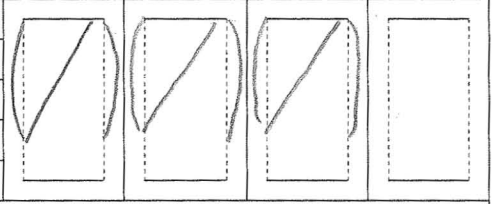




Symbol		⦶	△	⊡	
Sample No.		UD-1	UD-1	UD-1	
Test No.		7543.1	7543.2	7543.3	
Depth		28.5 ft	28.5 ft	28.5 ft	
Initial	Diameter, in	2.874	2.858	2.867	
	Height, in	5.618	5.616	5.611	
	Water Content, %	19.1	30.8	12.8	
	Dry Density, pcf	97.76	81.53	100.7	
	Saturation, %	73.3	79.2	53.0	
	Void Ratio	0.692	1.03	0.642	
Before Shear	Water Content, %	23.9	34.6	22.5	
	Dry Density, pcf	101.3	86.33	103.6	
	Saturation*, %	100.0	100.0	100.0	
	Void Ratio	0.633	0.916	0.597	
	Back Press., psi	90.	136.	150.	
Ver. Eff. Cons. Stress, psi		14.	28.	56.	
Shear Strength, psi		13.18	11.27	51.67	
Strain at Failure, %		17	17	17	
Strain Rate, %/min		0.1	0.1	0.1	
B-Value		0.97	0.97	0.97	
Estimated Specific Gravity		2.65	2.65	2.65	
Liquid Limit		---	---	---	
Plastic Limit		---	---	---	

MACTEC

Project: Votgle COL
Location: B-3026
Project No.: 6141060286
Boring No.: B-3026
Sample Type: Undisturbed
Description: SAND, clayey (SC) (Visual)
Remarks:

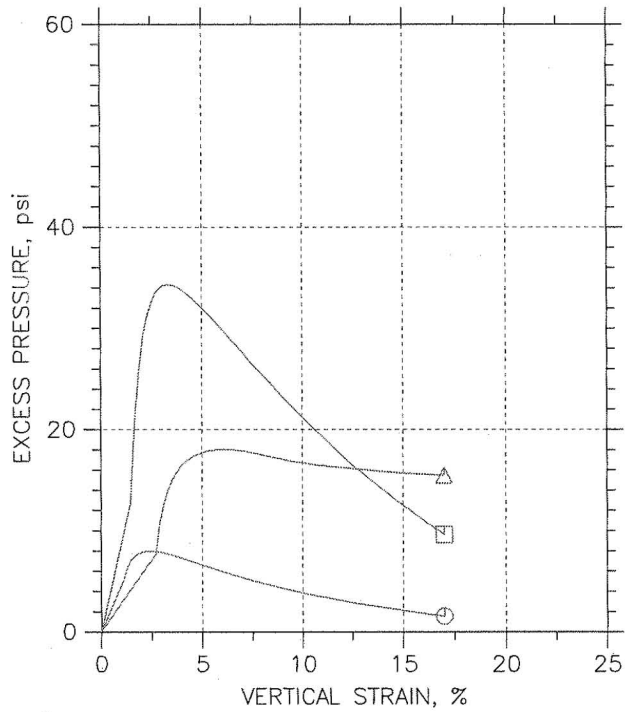


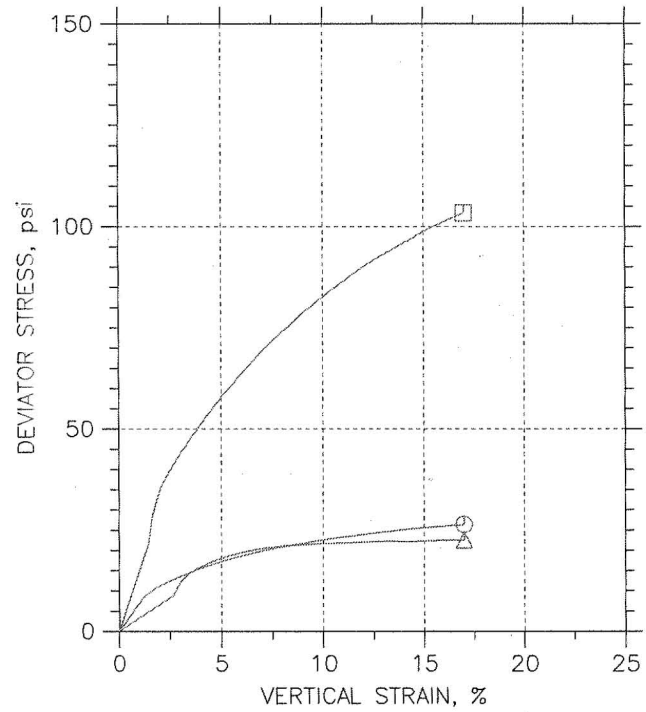
Phase calculations based on start and end of test.

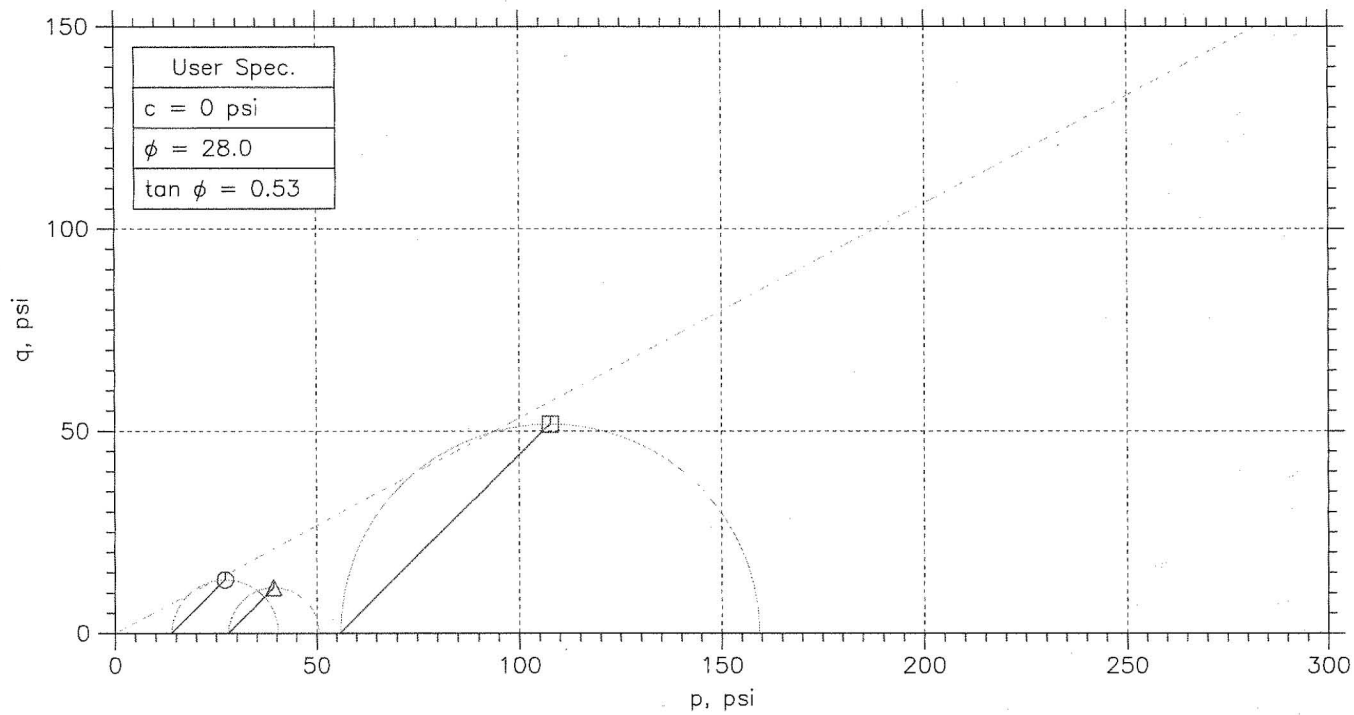
* Saturation is set to 100% for phase calculations.

Tue, 31-JUL-2007 10:39:42

CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767







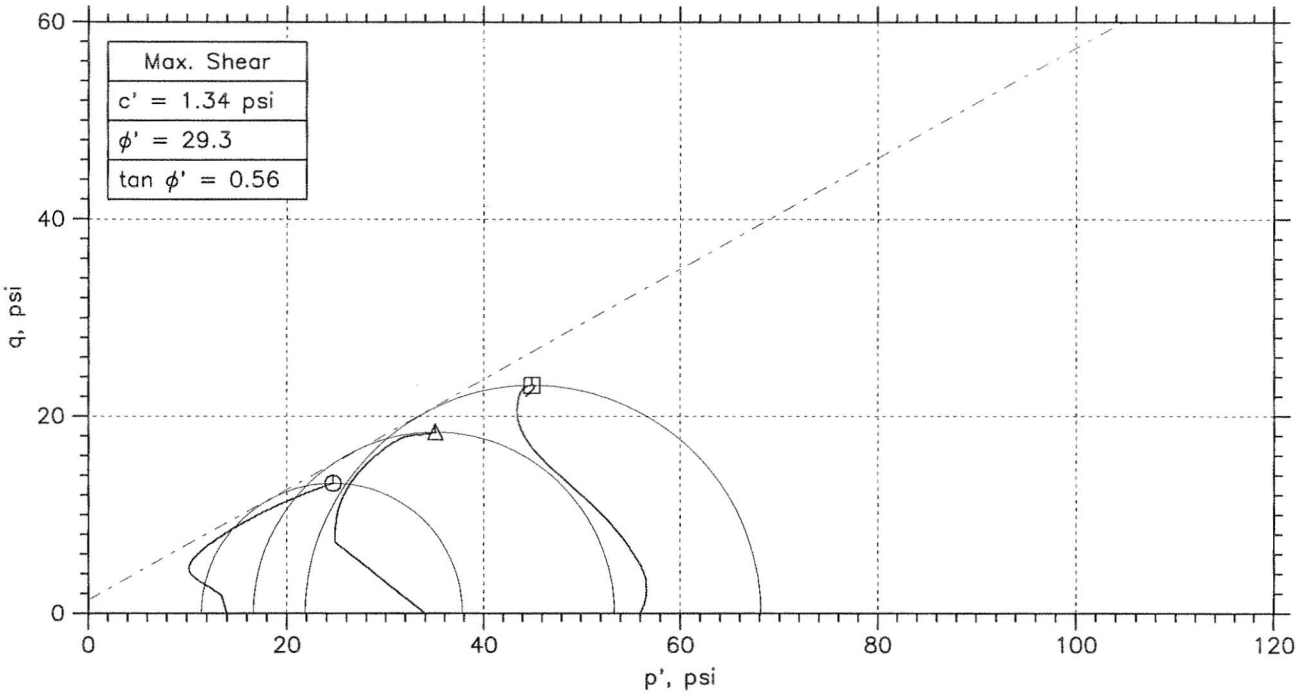
	Sample No.	Test No.	Depth	Tested By	Test Date	Checked By	Check Date	Test File
⊙	UD-1	7543.1	28.5 ft	HJ	7/25/07	JW		7543.1_2583a.dat
△	UD-1	7543.2	28.5 ft	HJ	7/25/07	JW	JW 7/31/07	7543.2_2581a.dat
⊡	UD-1	7543.3	28.5 ft	HJ	7/25/07	JW		7543.3_2582a.dat

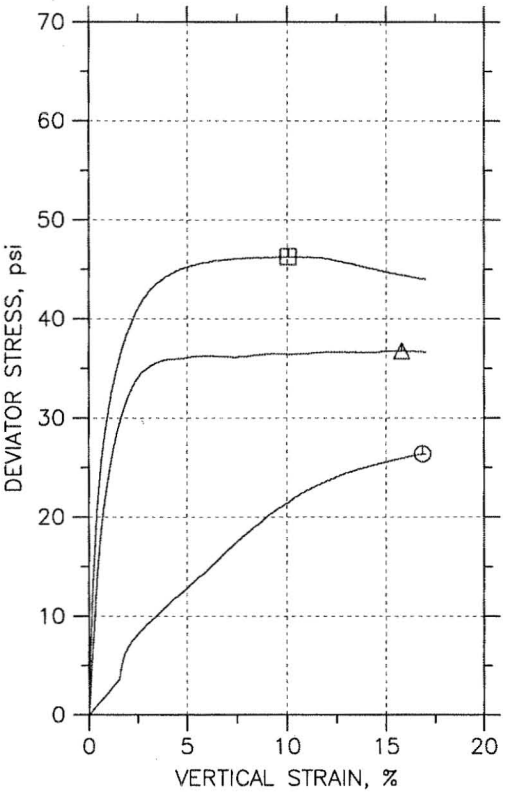
MACTEC

Project: Votgle COL	Location: B-3026	Project No.: 6141060286
Boring No.: B-3026	Sample Type: Undisturbed	
Description: SAND, clayey (SC) (Visual)		
Remarks:		

Tue, 31-JUL-2007 10:39:42

CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767

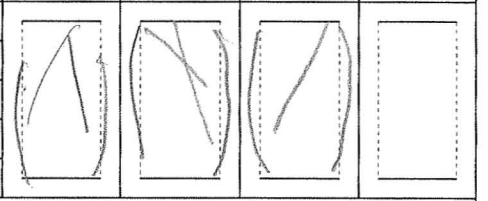




Symbol		⊙	△	⊡	
Sample No.		UD-2	UD-2	UD-2	
Test No.		7544.1	7544.2	7544.3	
Depth		33.5 ft	33.5 ft	33.5 ft	
Initial	Diameter, in	2.869	2.875	2.874	
	Height, in	5.607	6.009	6.008	
	Water Content, %	25.9	26.1	29.8	
	Dry Density, pcf	89.02	88.81	86.94	
	Saturation, %	79.9	80.3	87.4	
	Void Ratio	0.858	0.863	0.903	
Before Shear	Water Content, %	29.6	31.0	29.7	
	Dry Density, pcf	92.76	90.81	92.53	
	Saturation*, %	100.0	100.0	100.0	
	Void Ratio	0.783	0.822	0.788	
	Back Press., psi	86.	70.07	57.99	
Ver. Eff. Cons. Stress, psi		14.01	33.92	56.	
Shear Strength, psi		13.18	18.37	23.13	
Strain at Failure, %		16.9	15.8	10.1	
Strain Rate, %/min		0.05	0.05	0.05	
B-Value		0.94	0.99	0.99	
Estimated Specific Gravity		2.65	2.65	2.65	
Liquid Limit		---	---	---	
Plastic Limit		---	---	---	

MACTEC

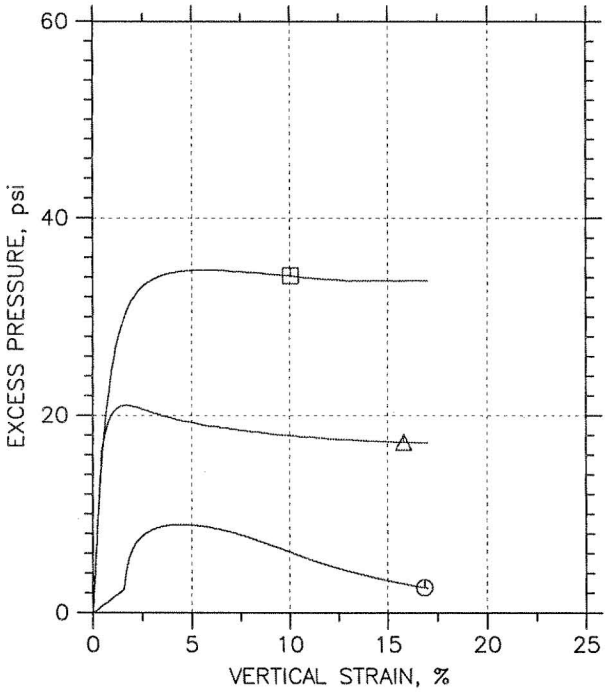
Project: Vogtle COL
Location: B-3026
Project No.: 6141060286
Boring No.: B-3026
Sample Type: Undisturbed
Description: SAND, clayey (SC)
Remarks:

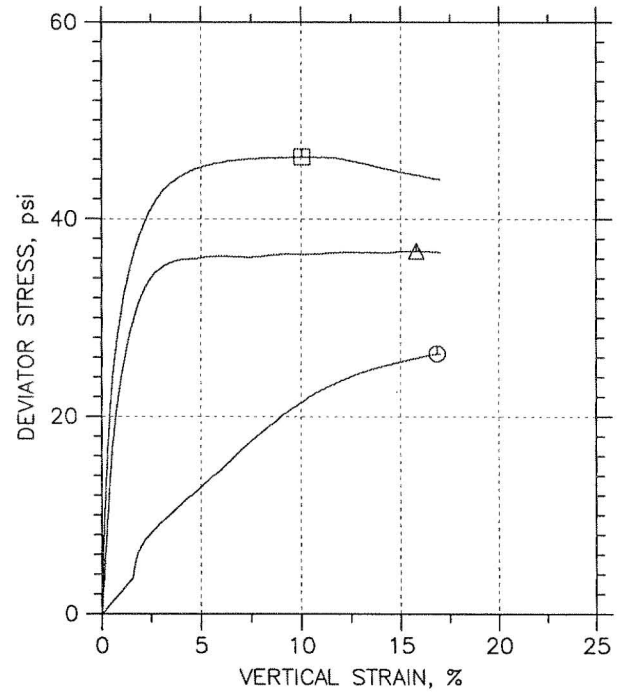


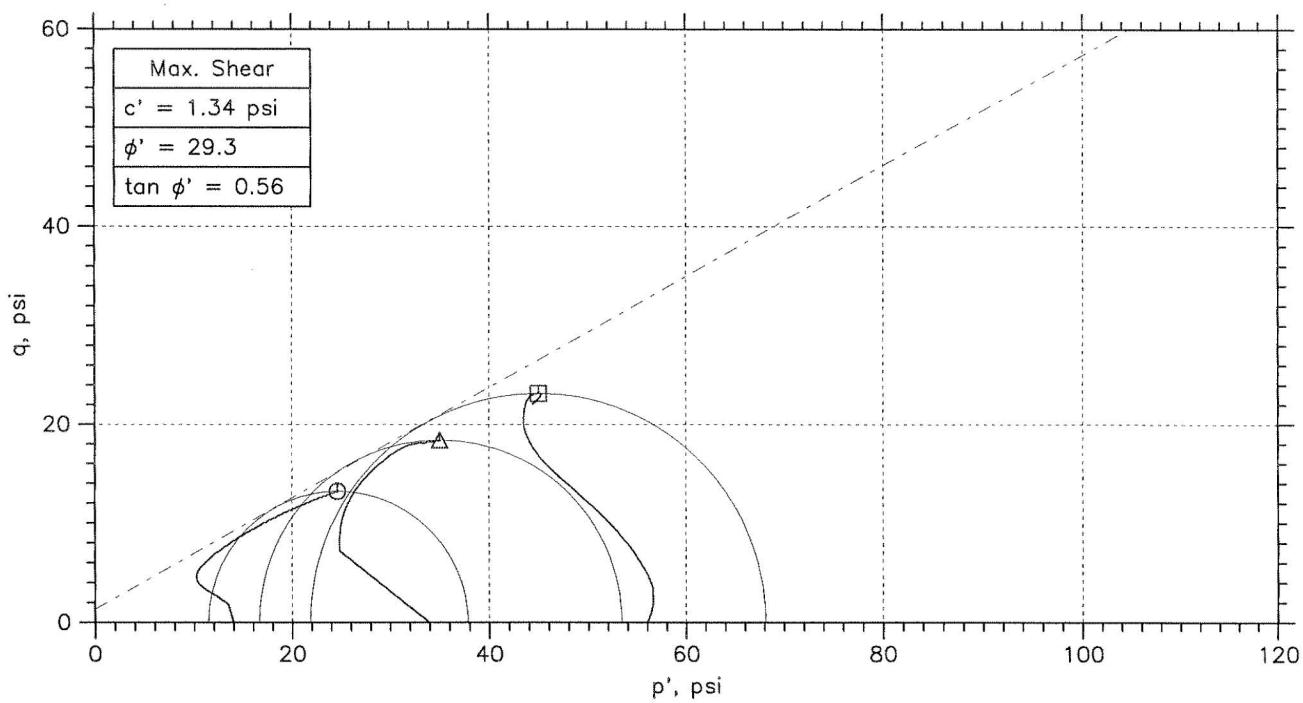
Phase calculations based on start and end of test.
* Saturation is set to 100% for phase calculations.

Mon, 30-JUL-2007 15:50:28

CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767







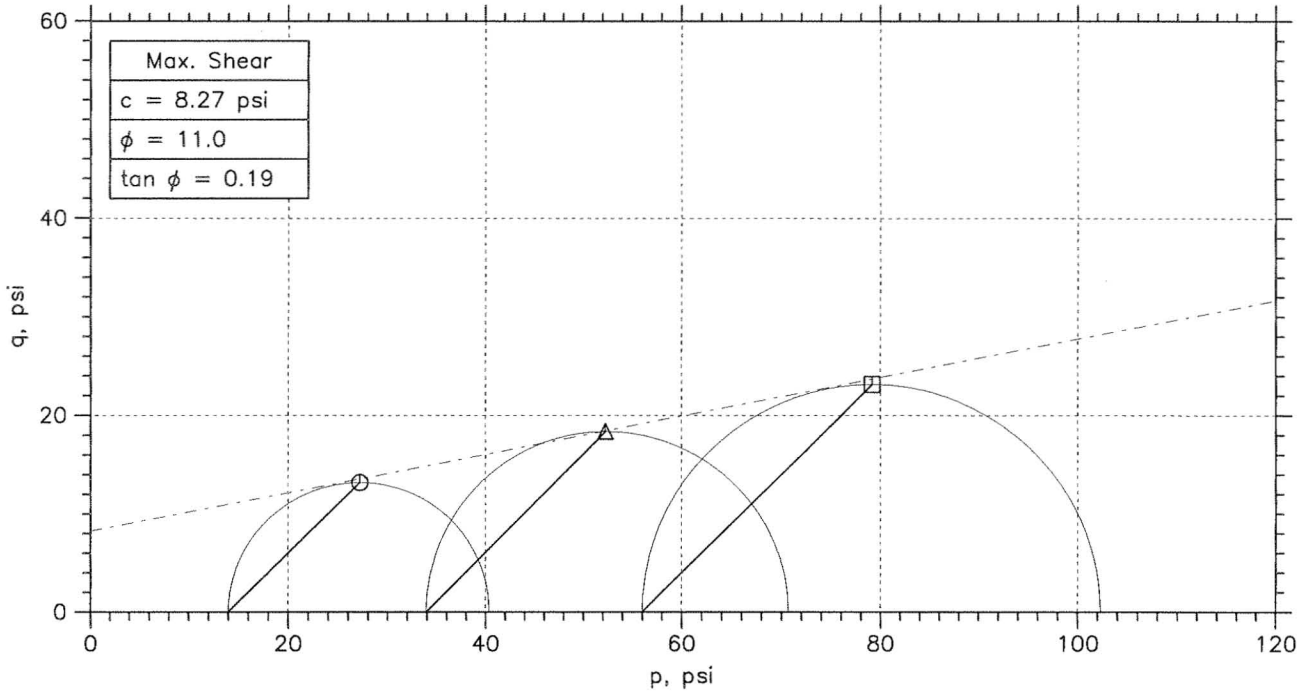
	Sample No.	Test No.	Depth	Tested By	Test Date	Checked By	Check Date	Test File
⏲	UD-2	7544.1	33.5 ft	HJ	6/11/07	JW		7544.1_2582a.dat
△	UD-2	7544.2	33.5 ft	HJ	6/11/2007	JW	JW 7/31/07	7544.2_2581a.dat
⊡	UD-2	7544.3	33.5 ft	HJ	6/11/07	JW		7544.3_2583.dat

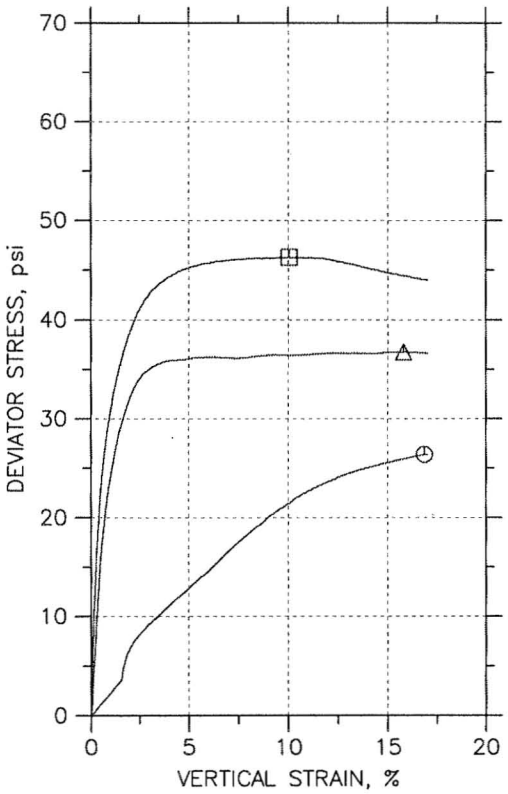
MACTEC

Project: Vogtle COL	Location: B-3026	Project No.: 6141060286
Boring No.: B-3026	Sample Type: Undisturbed	
Description: SAND, clayey (SC)		
Remarks:		

Mon, 30-JUL-2007 15:50:28

CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767

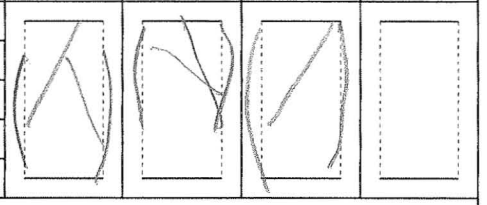




Symbol		⏲	△	⊡	
Sample No.		UD-2	UD-2	UD-2	
Test No.		7544.1	7544.2	7544.3	
Depth		33.5 ft	33.5 ft	33.5 ft	
Initial	Diameter, in	2.869	2.875	2.874	
	Height, in	5.607	6.009	6.008	
	Water Content, %	25.9	26.1	29.8	
	Dry Density, pcf	89.02	88.81	86.94	
	Saturation, %	79.9	80.3	87.4	
	Void Ratio	0.858	0.863	0.903	
Before Shear	Water Content, %	29.6	31.0	29.7	
	Dry Density, pcf	92.76	90.81	92.53	
	Saturation*, %	100.0	100.0	100.0	
	Void Ratio	0.783	0.822	0.788	
	Back Press., psi	86.	70.07	57.99	
Ver. Eff. Cons. Stress, psi		14.01	33.92	56.	
Shear Strength, psi		13.18	18.37	23.13	
Strain at Failure, %		16.9	15.8	10.1	
Strain Rate, %/min		0.05	0.05	0.05	
B-Value		0.94	0.99	0.99	
Estimated Specific Gravity		2.65	2.65	2.65	
Liquid Limit		---	---	---	
Plastic Limit		---	---	---	

MACTEC

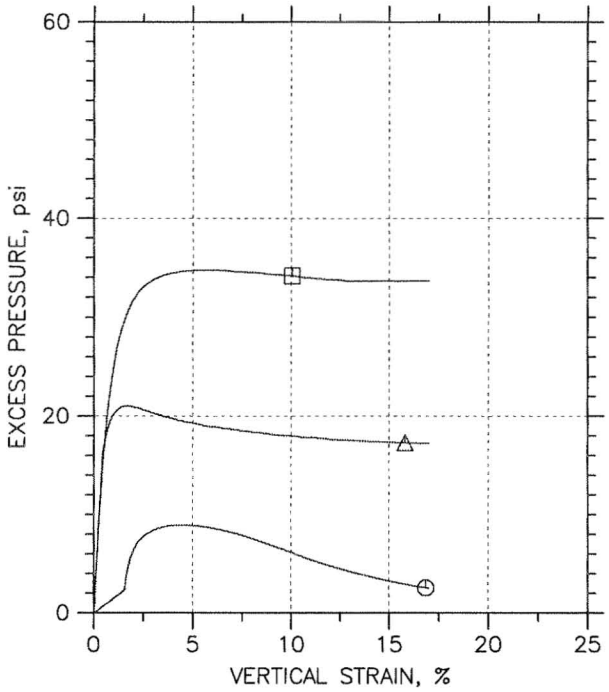
Project: Vogtle COL
Location: B-3026
Project No.: 6141060286
Boring No.: B-3026
Sample Type: Undisturbed
Description: SAND, clayey (SC)
Remarks:

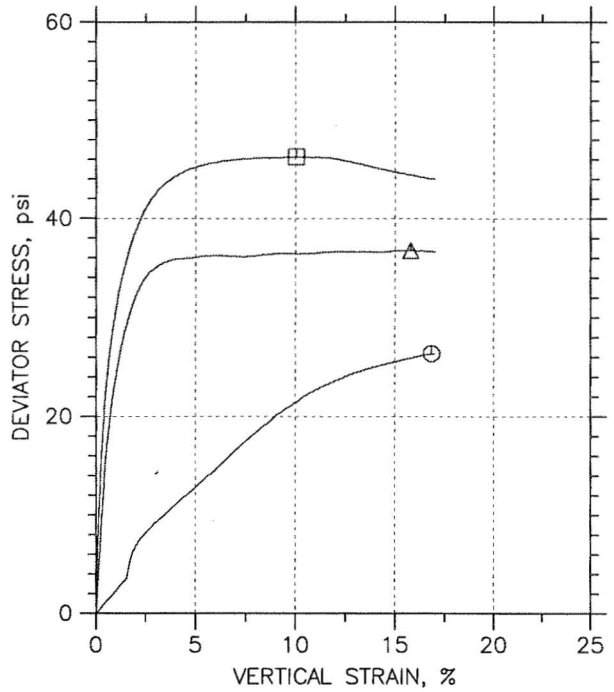


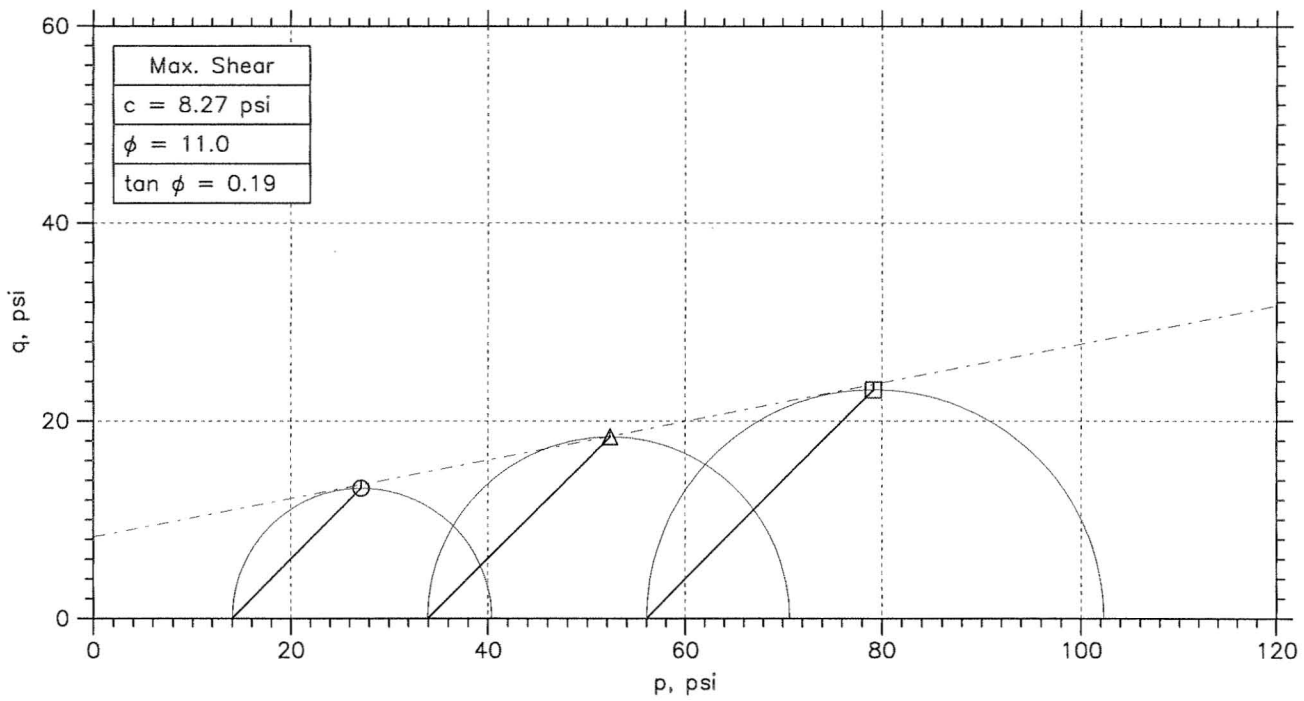
Phase calculations based on start and end of test.
* Saturation is set to 100% for phase calculations.

Mon, 30-JUL-2007 15:50:33

CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767







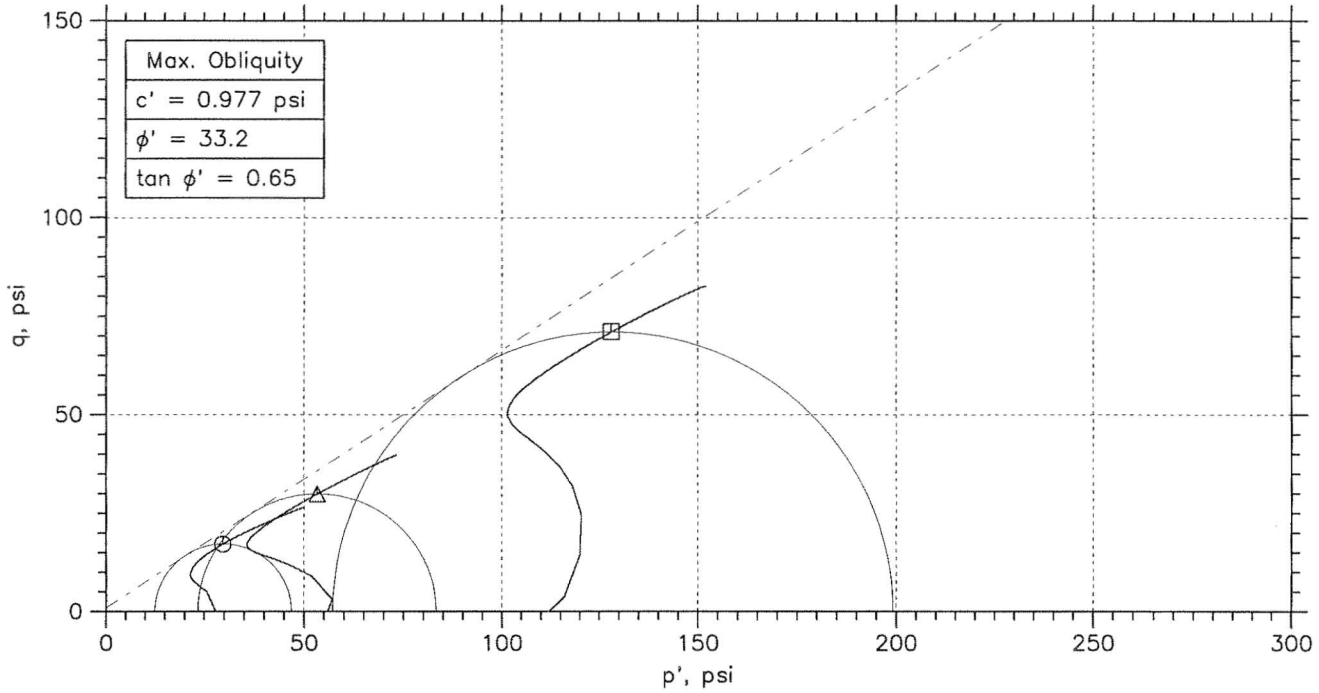
	Sample No.	Test No.	Depth	Tested By	Test Date	Checked By	Check Date	Test File
⊙	UD-2	7544.1	33.5 ft	HJ	6/11/07	JW		7544.1_2582a.dat
△	UD-2	7544.2	33.5 ft	HJ	6/11/2007	JW	JW 7/31/07	7544.2_2581a.dat
⊡	UD-2	7544.3	33.5 ft	HJ	6/11/07	JW		7544.3_2583.dat

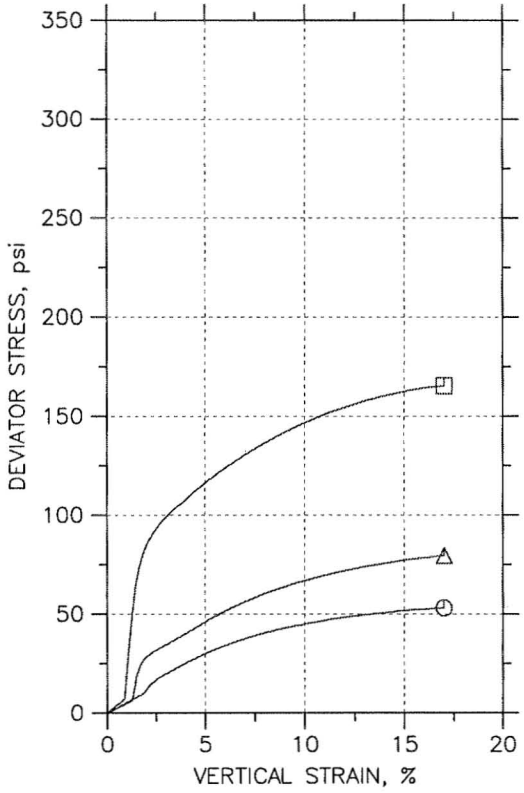
MACTEC

Project: Vogtle COL	Location: B-3026	Project No.: 6141060286
Boring No.: B-3026	Sample Type: Undisturbed	
Description: SAND, clayey (SC)		
Remarks:		

Mon, 30-JUL-2007 15:50:33

CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767





Symbol		⦶	△	⊡	
Sample No.		UD-3	UD-3	UD-3	
Test No.		7545.1	7545.2	7545.3	
Depth		38.5 ft	38.5 ft	38.5 ft	
Initial	Diameter, in	2.868	2.868	2.863	
	Height, in	5.611	5.611	5.577	
	Water Content, %	23.3	22.4	18.5	
	Dry Density, pcf	94.09	99.09	101.4	
	Saturation, %	81.4	88.7	77.8	
	Void Ratio	0.758	0.67	0.631	
Before Shear	Water Content, %	27.6	23.1	20.6	
	Dry Density, pcf	95.62	102.7	107.1	
	Saturation*, %	100.0	100.0	100.0	
	Void Ratio	0.73	0.611	0.545	
	Back Press., psi	110.	99.99	68.01	
Ver. Eff. Cons. Stress, psi		27.99	56.	111.9	
Shear Strength, psi		26.5	39.7	82.66	
Strain at Failure, %		17	17	17	
Strain Rate, %/min		0.1	0.1	0.1	
B-Value		0.98	0.99	0.95	
Estimated Specific Gravity		2.65	2.65	2.65	
Liquid Limit		---	---	---	
Plastic Limit		---	---	---	

MACTEC

Project: Vogtle COL

Location: B-3026

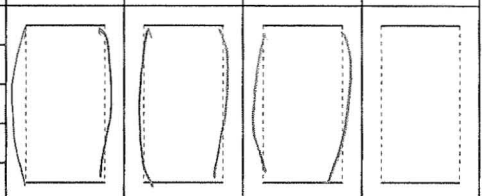
Project No.: 6141060286

Boring No.: B-3026

Sample Type: Undisturbed

Description: SAND, clayey (SC) (Visual)

Remarks:

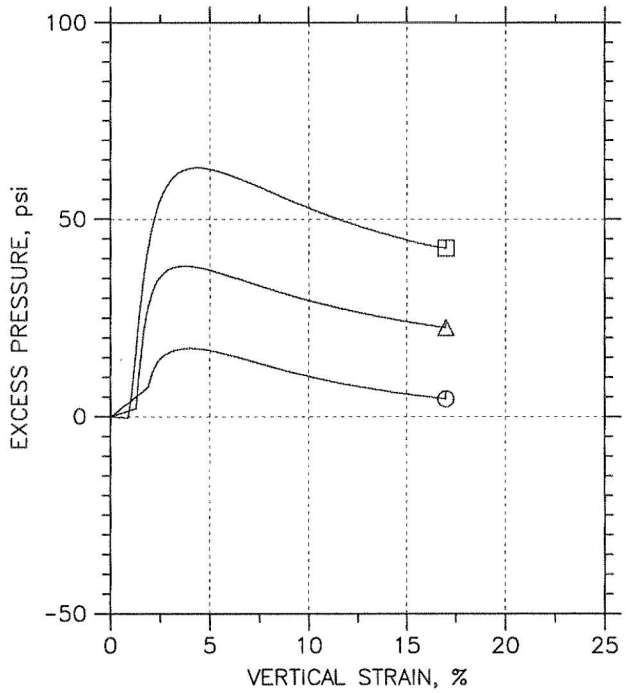


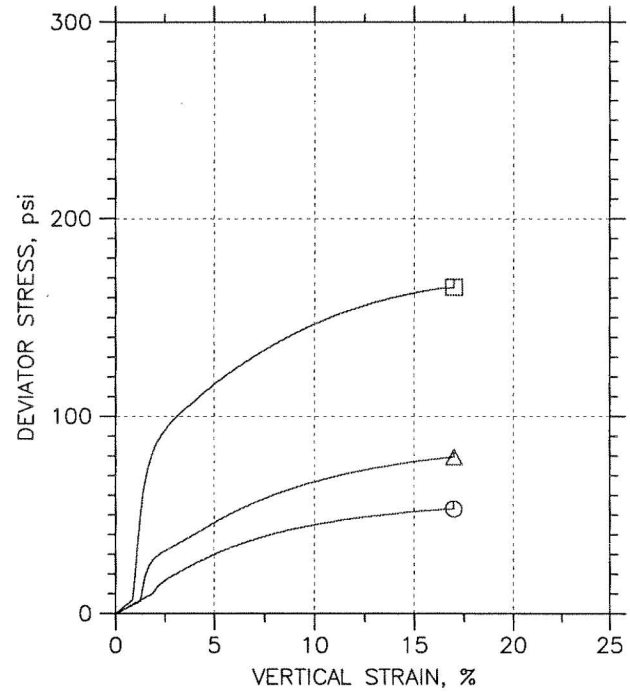
Phase calculations based on start and end of test.

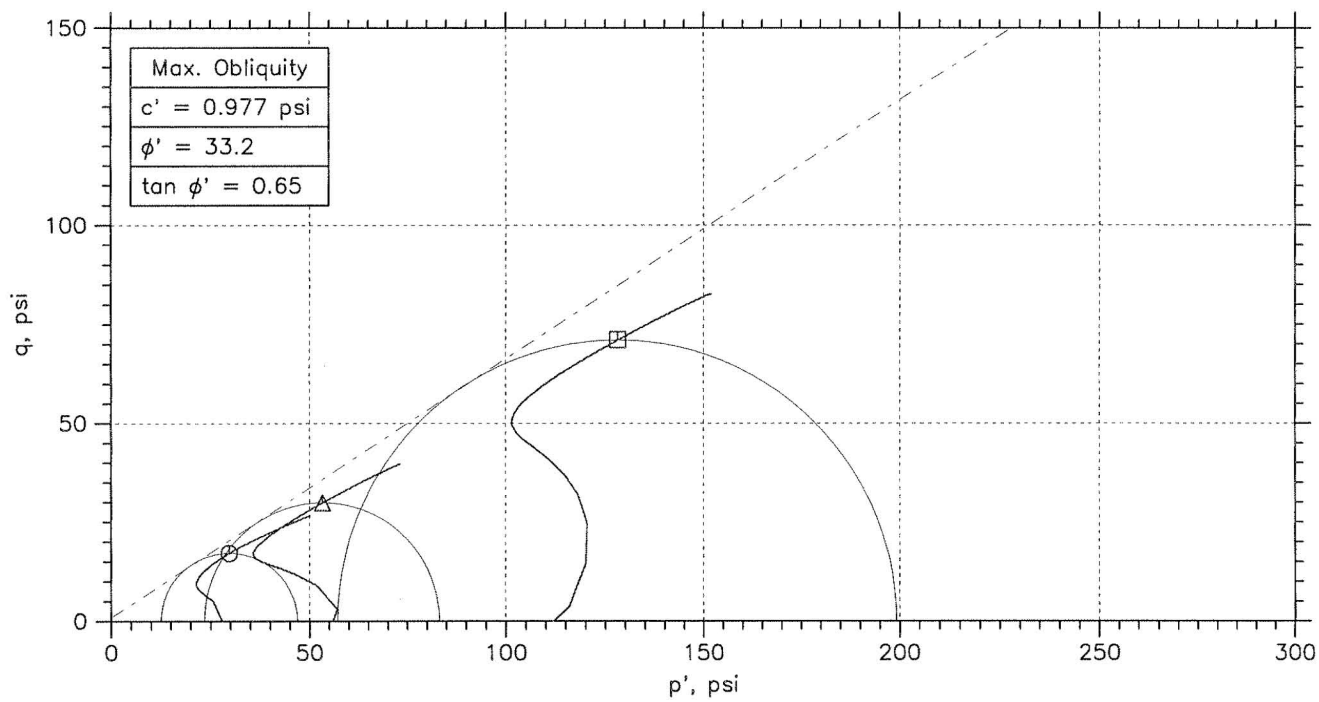
* Saturation is set to 100% for phase calculations.

Mon, 30-JUL-2007 16:02:51

CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767







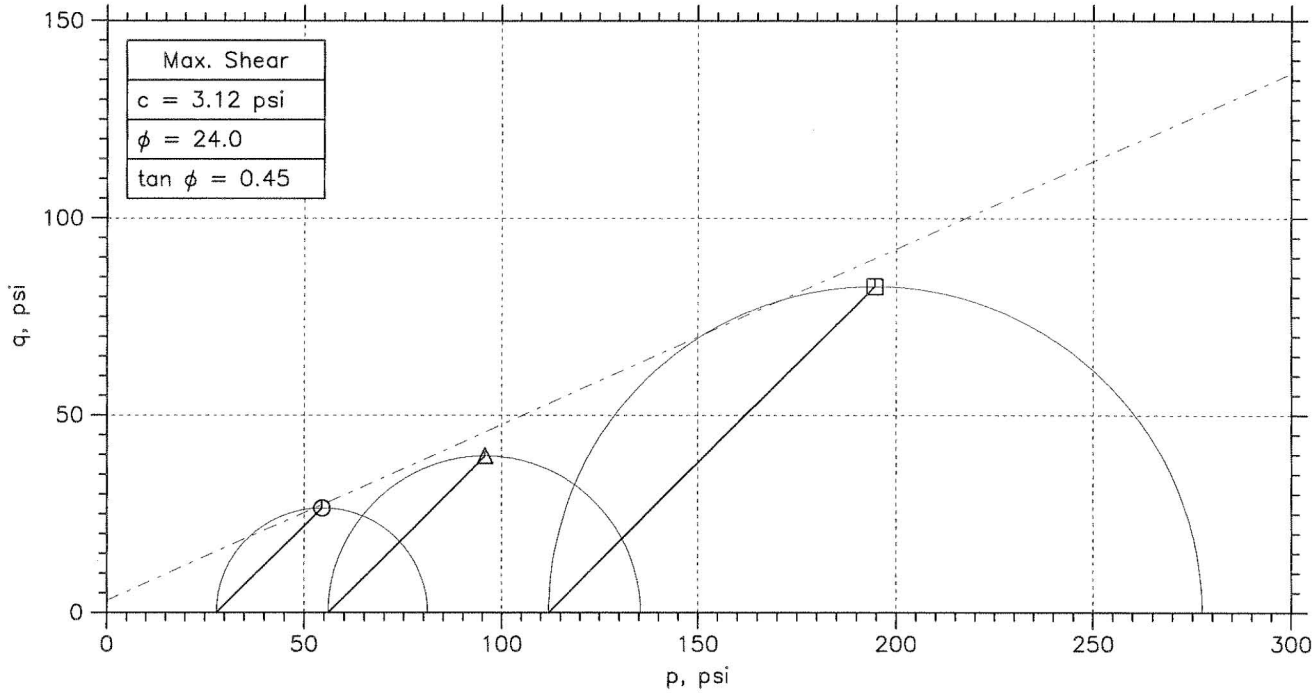
	Sample No.	Test No.	Depth	Tested By	Test Date	Checked By	Check Date	Test File
⊙	UD-3	7545.1	38.5 ft	HJ	7/12/07	JW		7545.1_2583a.dat
△	UD-3	7545.2	38.5 ft	HJ	7/12/07	JW	JW 7/31/07	7545.2_2582a.dat
⊡	UD-3	7545.3	38.5 ft	HJ	7/12/07	JW		7545.3_2581a.dat

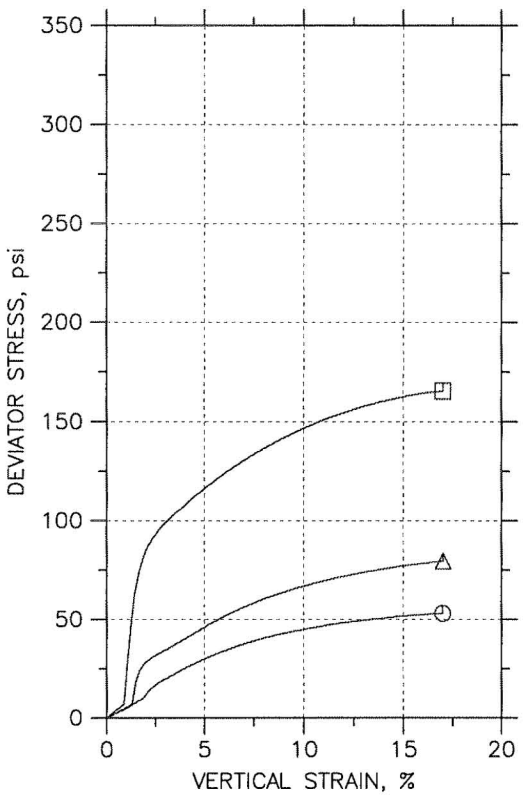
MACTEC

Project: Vogtle COL	Location: B-3026	Project No.: 6141060286
Boring No.: B-3026	Sample Type: Undisturbed	
Description: SAND, clayey (SC) (Visual)		
Remarks:		

Mon, 30-JUL-2007 16:02:51

CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767

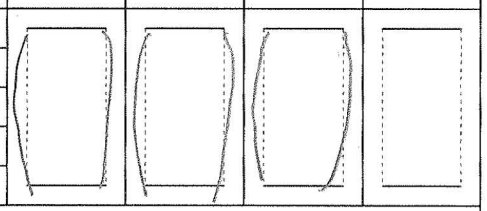




Symbol		⦶	△	⊡	
Sample No.		UD-3	UD-3	UD-3	
Test No.		7545.1	7545.2	7545.3	
Depth		38.5 ft	38.5 ft	38.5 ft	
Initial	Diameter, in	2.868	2.868	2.863	
	Height, in	5.611	5.611	5.577	
	Water Content, %	23.3	22.4	18.5	
	Dry Density, pcf	94.09	99.09	101.4	
	Saturation, %	81.4	88.7	77.8	
	Void Ratio	0.758	0.67	0.631	
Before Shear	Water Content, %	27.6	23.1	20.6	
	Dry Density, pcf	95.62	102.7	107.1	
	Saturation*, %	100.0	100.0	100.0	
	Void Ratio	0.73	0.611	0.545	
	Back Press., psi	110.	99.99	68.01	
Ver. Eff. Cons. Stress, psi		27.99	56.	111.9	
Shear Strength, psi		26.5	39.7	82.66	
Strain at Failure, %		17	17	17	
Strain Rate, %/min		0.1	0.1	0.1	
B-Value		0.98	0.99	0.95	
Estimated Specific Gravity		2.65	2.65	2.65	
Liquid Limit		---	---	---	
Plastic Limit		---	---	---	

MACTEC

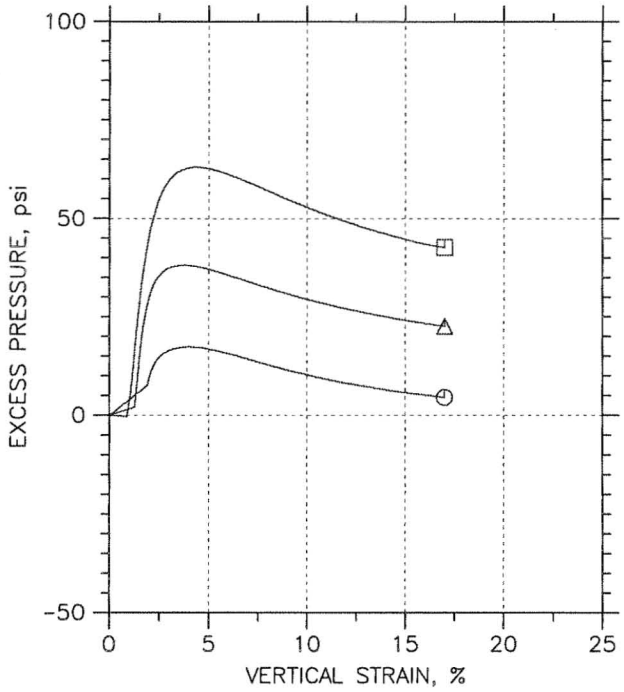
Project: Vogtle COL
Location: B-3026
Project No.: 6141060286
Boring No.: B-3026
Sample Type: Undisturbed

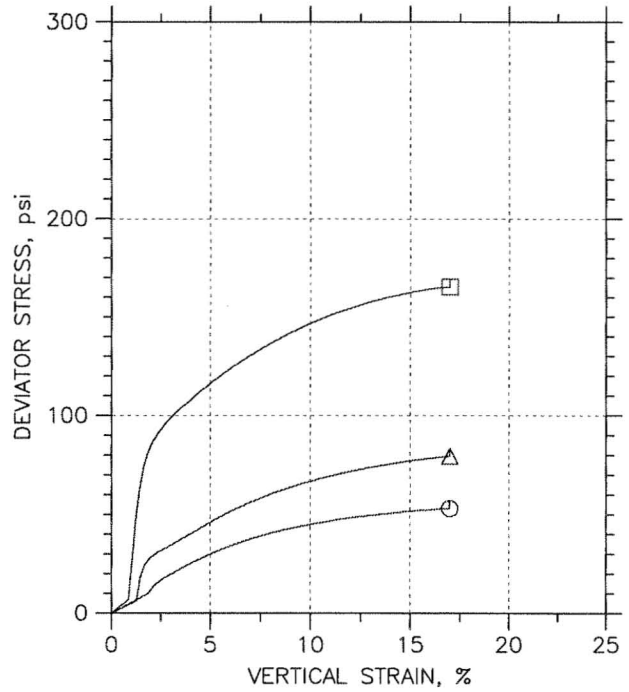


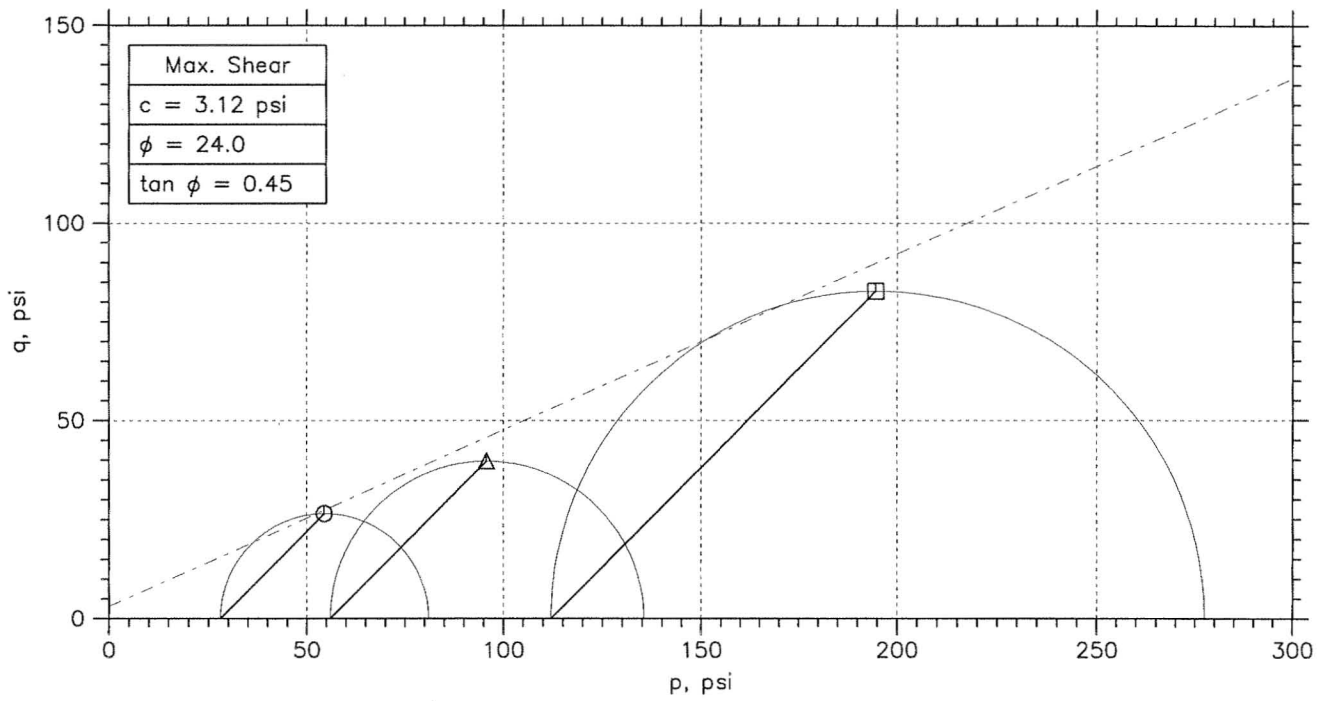
Description: SAND, clayey (SC) (Visual)
Remarks:

Phase calculations based on start and end of test.
* Saturation is set to 100% for phase calculations.

CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767







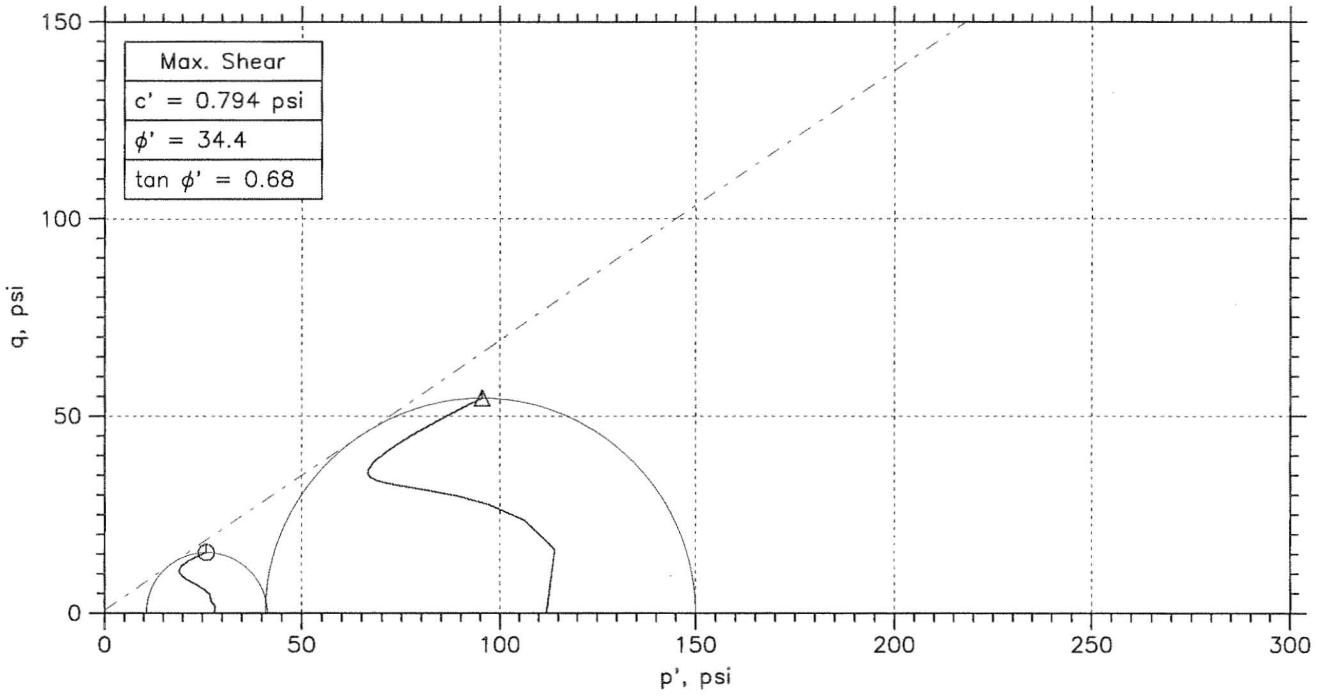
	Sample No.	Test No.	Depth	Tested By	Test Date	Checked By	Check Date	Test File
⊙	UD-3	7545.1	38.5 ft	HJ	7/12/07	JW		7545.1_2583a.dat
△	UD-3	7545.2	38.5 ft	HJ	7/12/07	JW	JW 7/31/07	7545.2_2582a.dat
⊡	UD-3	7545.3	38.5 ft	HJ	7/12/07	JW		7545.3_2581a.dat

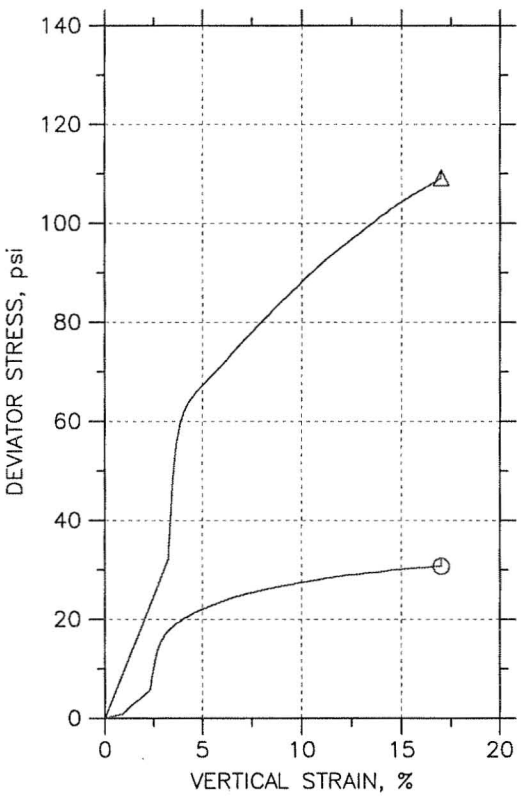
MACTEC

Project: Vogtle COL	Location: B-3026	Project No.: 6141060286
Boring No.: B-3026	Sample Type: Undisturbed	
Description: SAND, clayey (SC) (Visual)		
Remarks:		

Mon, 30-JUL-2007 16:02:58

CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767





Symbol		⊙	△		
Sample No.		UD-7	UD-7		
Test No.		7553.1	7553.3		
Depth		178.5 ft	178.5 ft		
Initial	Diameter, in	2.838	2.857		
	Height, in	5.611	5.608		
	Water Content, %	40.0	25.4		
	Dry Density, pcf	78.75	96.89		
	Saturation, %	96.3	95.1		
	Void Ratio	1.1	0.708		
Before Shear	Water Content, %	35.7	22.6		
	Dry Density, pcf	85.02	103.4		
	Saturation*, %	100.0	100.0		
	Void Ratio	0.946	0.6		
	Back Press., psi	67.98	86.		
Ver. Eff. Cons. Stress, psi		28.01	112.		
Shear Strength, psi		15.34	54.54		
Strain at Failure, %		17	17		
Strain Rate, %/min		0.1	0.1		
B-Value		0.97	0.97		
Estimated Specific Gravity		2.65	2.65		
Liquid Limit		---	---		
Plastic Limit		---	---		

MACTEC

Project: Votgle COL

Location: B-4001

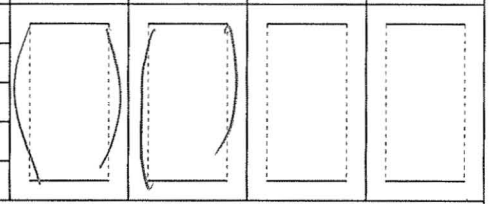
Project No.: 6141060286

Boring No.: B-4001

Sample Type: Undisturbed

Description: SAND, silty (SM) (Visual)

Remarks:

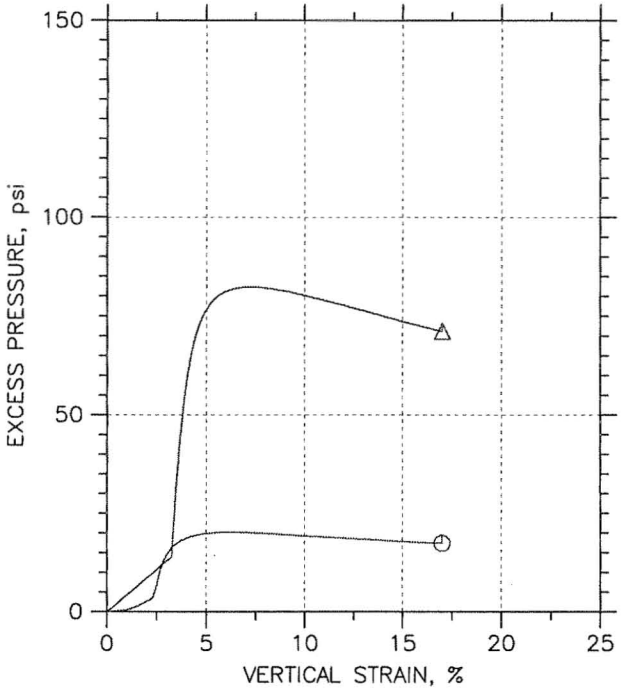


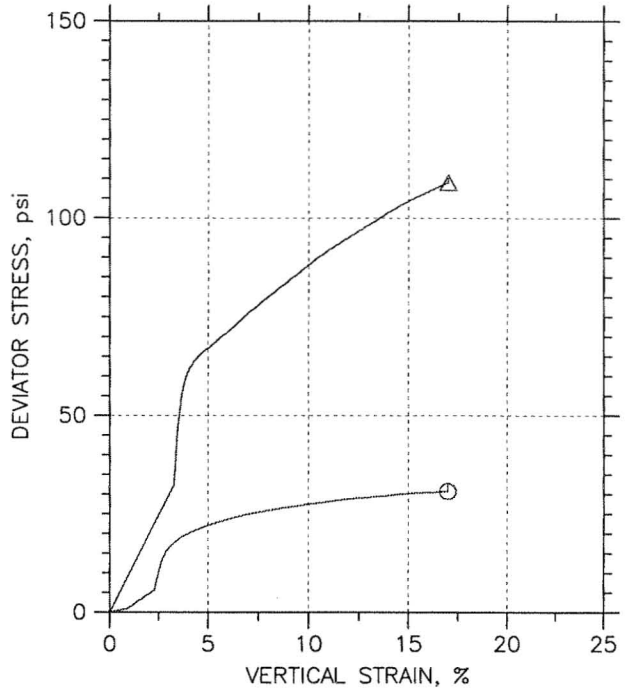
Phase calculations based on start and end of test.

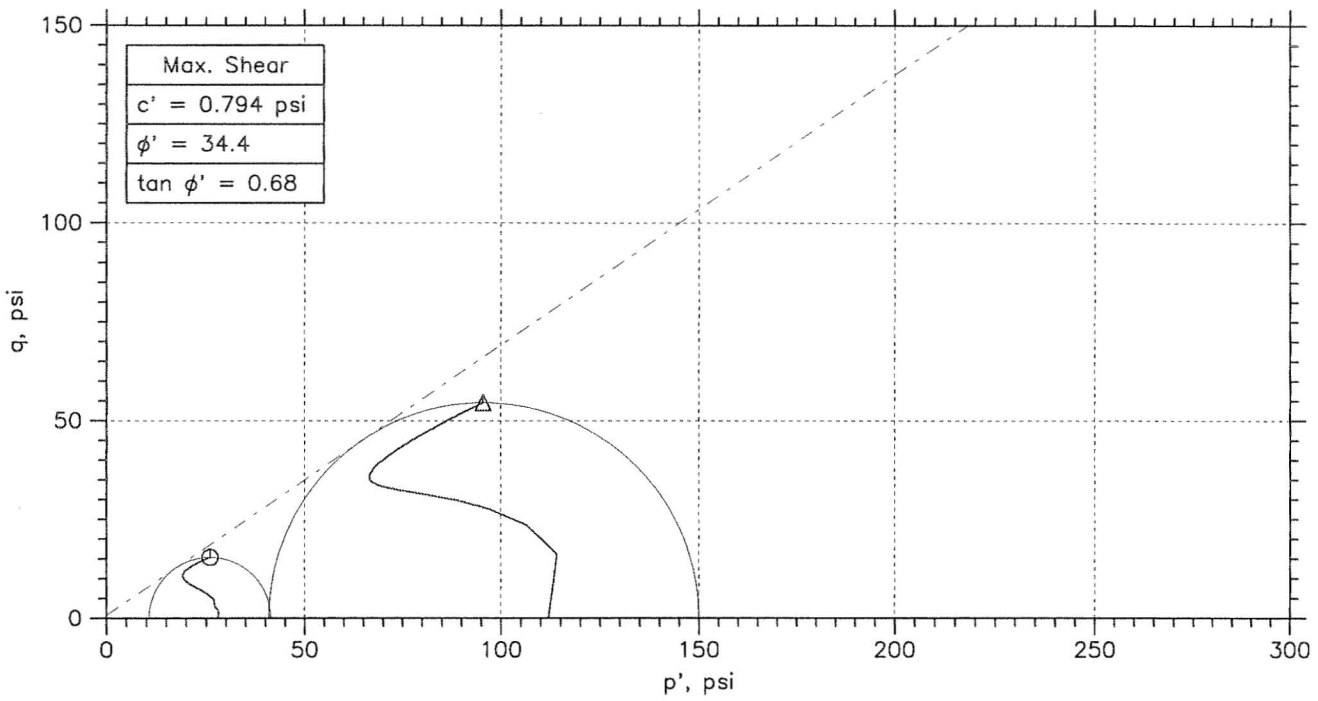
* Saturation is set to 100% for phase calculations.

Mon, 30-JUL-2007 16:22:02

CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767







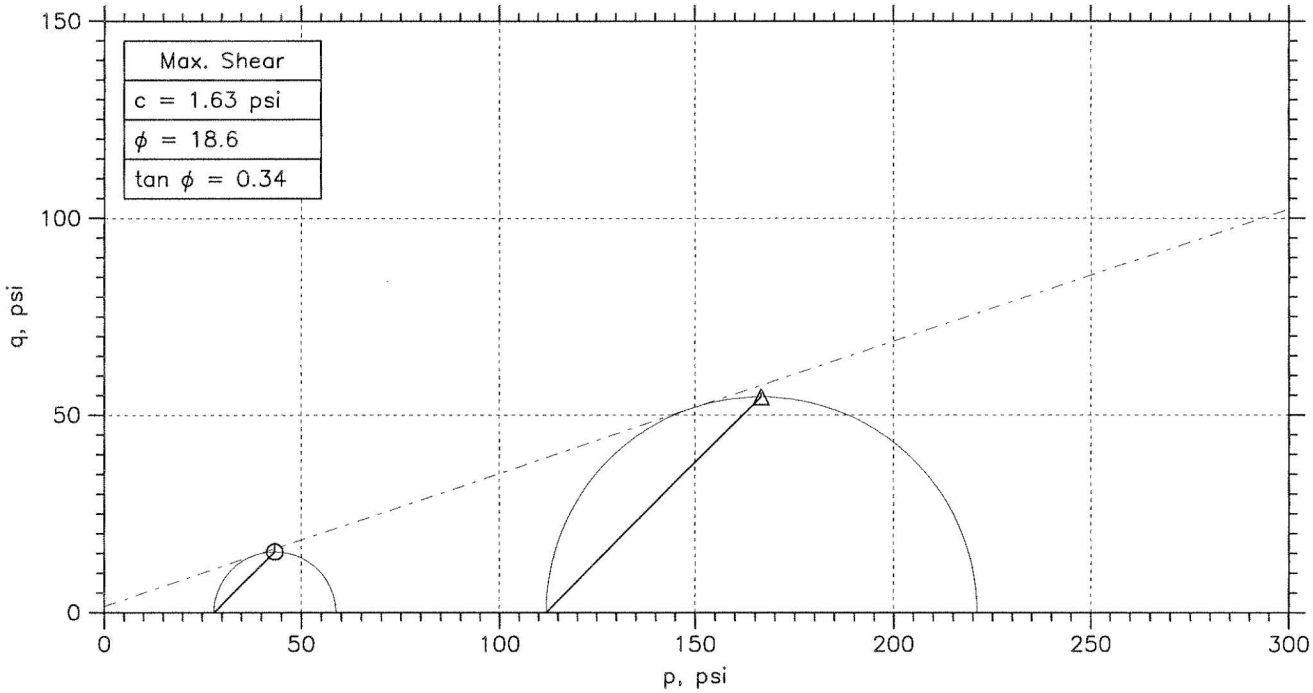
	Sample No.	Test No.	Depth	Tested By	Test Date	Checked By	Check Date	Test File
⦶	UD-7	7553.1	178.5 ft	HJ	7/19/07	JW		7553.1_2581a.dat
△	UD-7	7553.3	178.5 ft	HJ	7/19/07	JW	JW 7/31/07	7553.3_2582a.dat

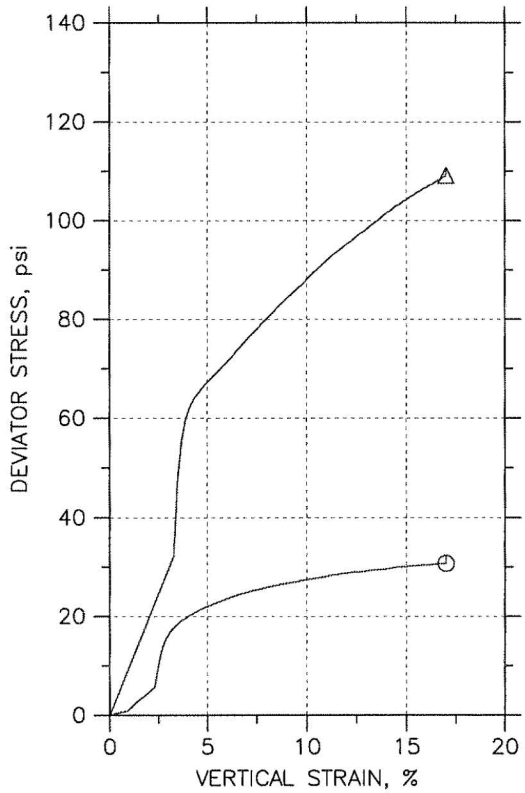
MACTEC

Project: Votgle COL	Location: B-4001	Project No.: 6141060286
Boring No.: B-4001	Sample Type: Undisturbed	
Description: SAND, silty (SM) (Visual)		
Remarks:		

Mon, 30-JUL-2007 16:22:02

CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767





Symbol		⦶	△		
Sample No.		UD-7	UD-7		
Test No.		7553.1	7553.3		
Depth		178.5 ft	178.5 ft		
Initial	Diameter, in	2.838	2.857		
	Height, in	5.611	5.608		
	Water Content, %	40.0	25.4		
	Dry Density, pcf	78.75	96.89		
	Saturation, %	96.3	95.1		
	Void Ratio	1.1	0.708		
Before Shear	Water Content, %	35.7	22.6		
	Dry Density, pcf	85.02	103.4		
	Saturation*, %	100.0	100.0		
	Void Ratio	0.946	0.6		
	Back Press., psi	67.98	86.		
Ver. Eff. Cons. Stress, psi		28.01	112.		
Shear Strength, psi		15.34	54.54		
Strain at Failure, %		17	17		
Strain Rate, %/min		0.1	0.1		
B-Value		0.97	0.97		
Estimated Specific Gravity		2.65	2.65		
Liquid Limit		---	---		
Plastic Limit		---	---		

MACTEC

Project: Votgle COL

Location: B-4001

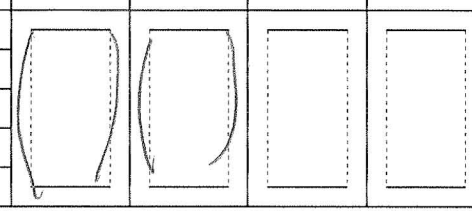
Project No.: 6141060286

Boring No.: B-4001

Sample Type: Undisturbed

Description: SAND, silty (SM) (Visual)

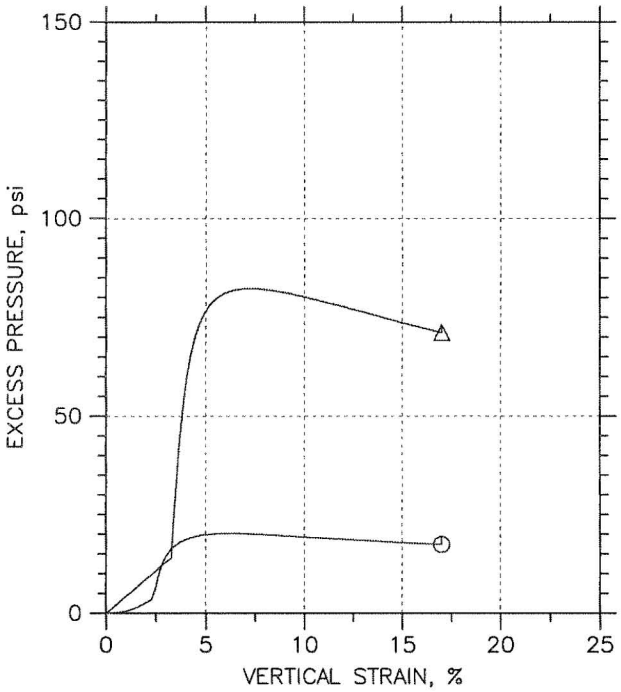
Remarks:

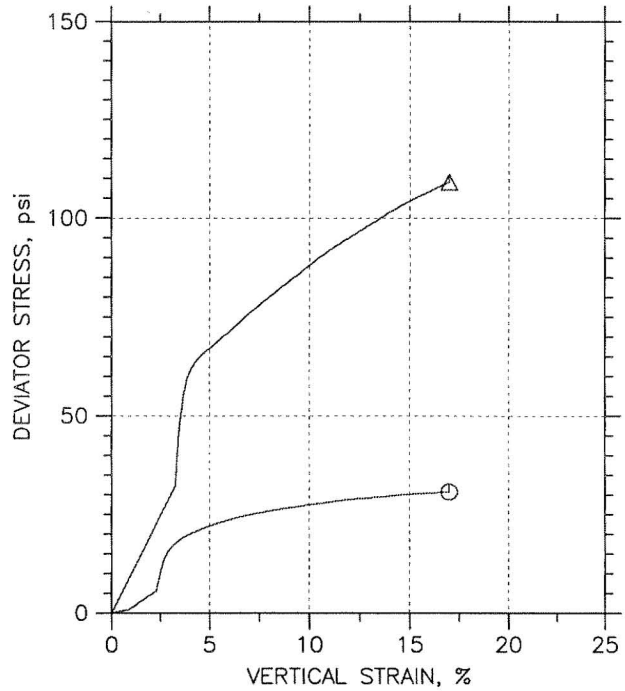


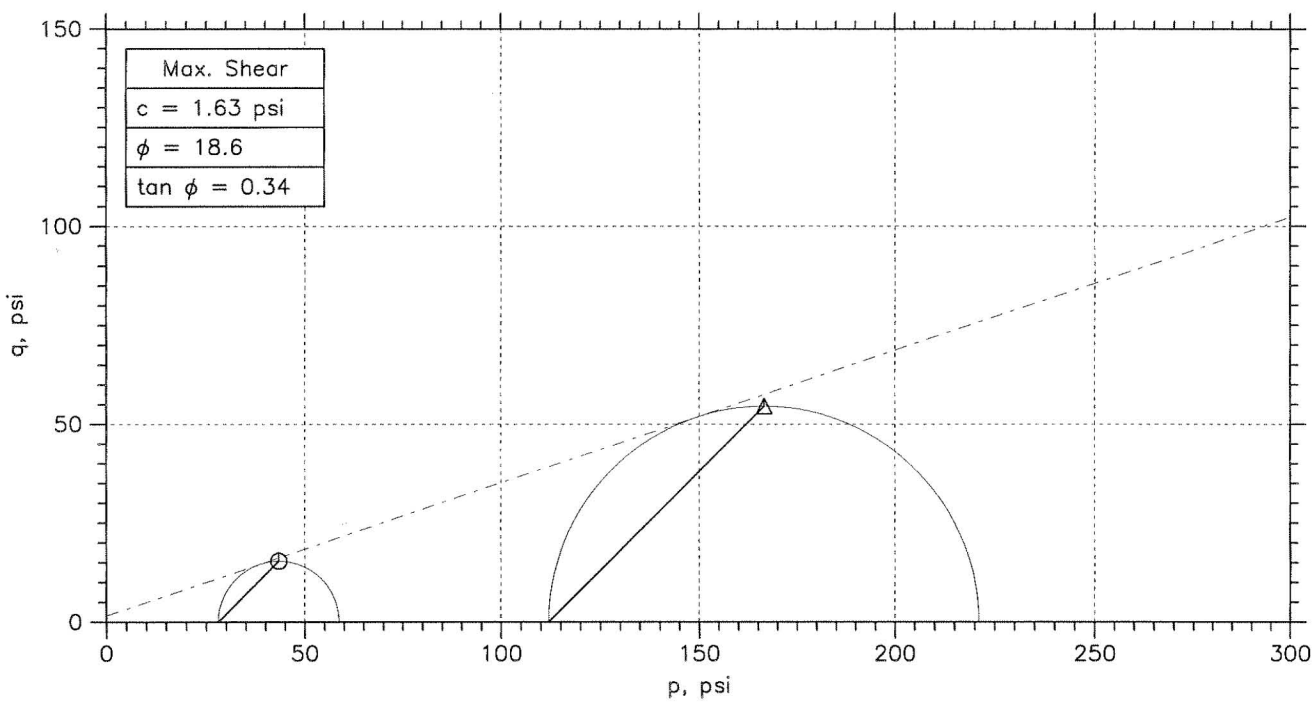
Phase calculations based on start and end of test.

* Saturation is set to 100% for phase calculations.

CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767







	Sample No.	Test No.	Depth	Tested By	Test Date	Checked By	Check Date	Test File
⦶	UD-7	7553.1	178.5 ft	HJ	7/19/07	JW		7553.1_2581a.dat
△	UD-7	7553.3	178.5 ft	HJ	7/19/07	JW	JCW 7/31/07	7553.3_2582a.dat

MACTEC

Project: Votgle COL	Location: B-4001	Project No.: 6141060286
Boring No.: B-4001	Sample Type: Undisturbed	
Description: SAND, silty (SM) (Visual)		
Remarks:		

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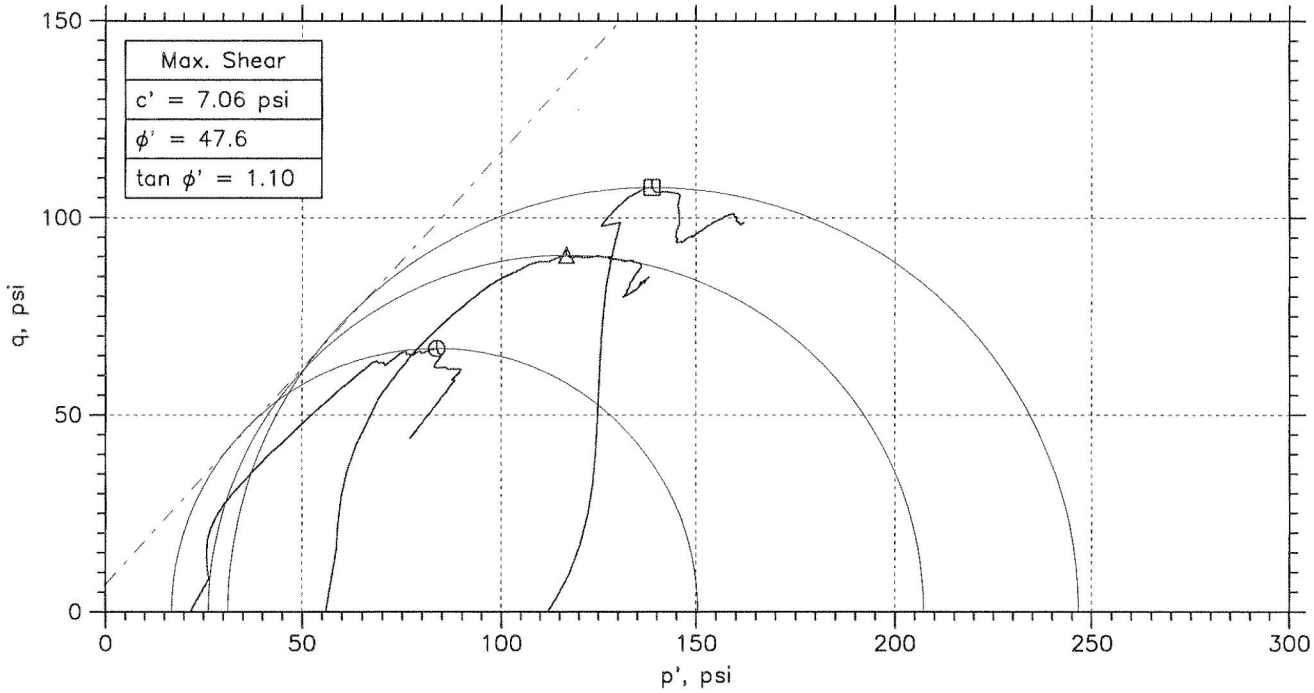
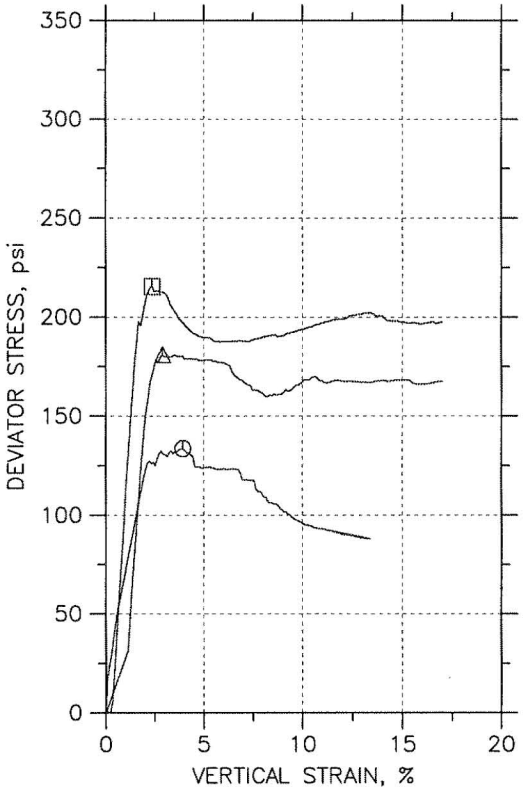
CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767

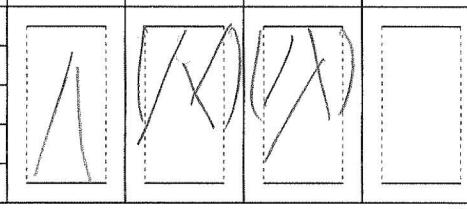




Symbol		⏲	△	⊡	
Sample No.		UD-1	UD-1	UD-1	
Test No.		7497.1	7560.2	7560.3	
Depth		98.5 ft	98.5 ft.	98.5 ft	
Initial	Diameter, in	2.871	2.846	2.872	
	Height, in	5.981	5.966	5.965	
	Water Content, %	40.4	33.1	41.7	
	Dry Density, pcf	75.5	80.62	75.12	
	Saturation, %	89.9	83.3	92.0	
	Void Ratio	1.19	1.05	1.2	
Before Shear	Water Content, %	41.3	41.8	40.3	
	Dry Density, pcf	79.02	78.52	80.04	
	Saturation*, %	100.0	100.0	100.0	
	Void Ratio	1.09	1.11	1.07	
	Back Press., psi	90.	82.01	38.	
Ver. Eff. Cons. Stress, psi		28.	55.98	112.	
Shear Strength, psi		66.79	90.47	107.7	
Strain at Failure, %		3.93	2.92	2.37	
Strain Rate, %/min		0.05	0.05	0.05	
B-Value		0.95	0.96	1.00	
Estimated Specific Gravity		2.65	2.65	2.65	
Liquid Limit		---	---	---	
Plastic Limit		---	---	---	

MACTEC

Project: Vogtle
Location: B-4002
Project No.: 6141060286
Boring No.: B-4002
Sample Type: Undisturbed
Description: Silt (ML) (Visual)
Remarks:



Phase calculations based on start and end of test.

* Saturation is set to 100% for phase calculations.

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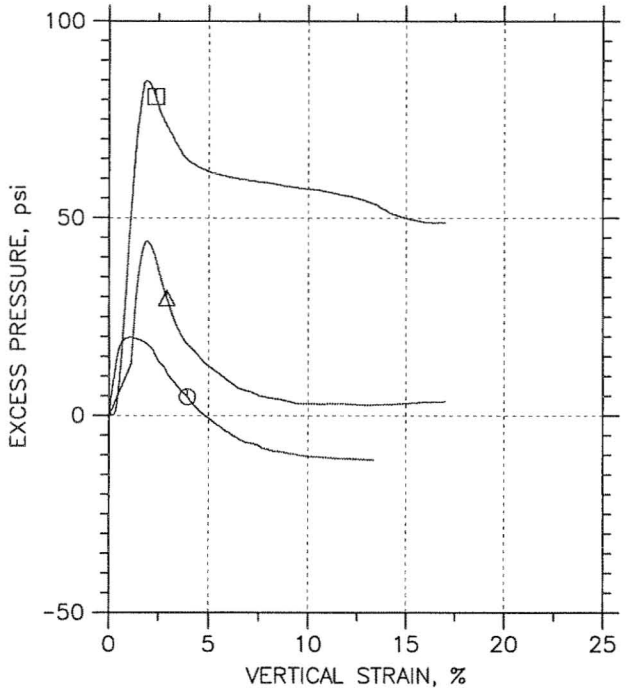
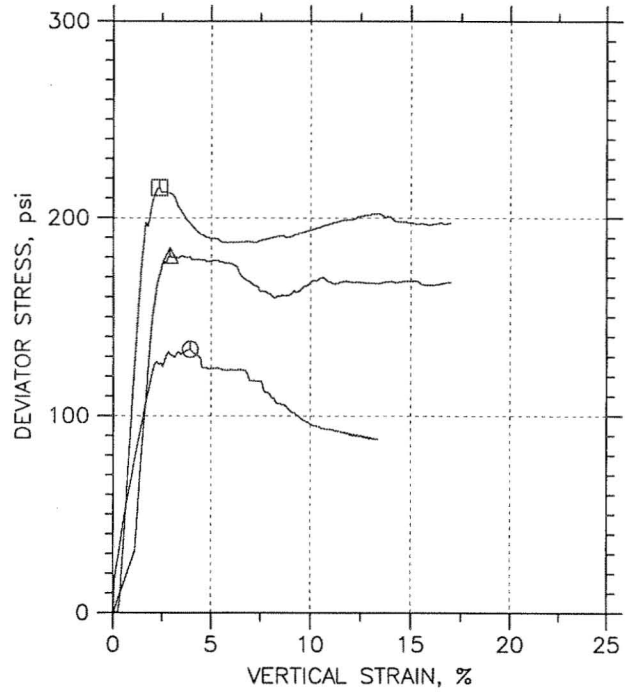
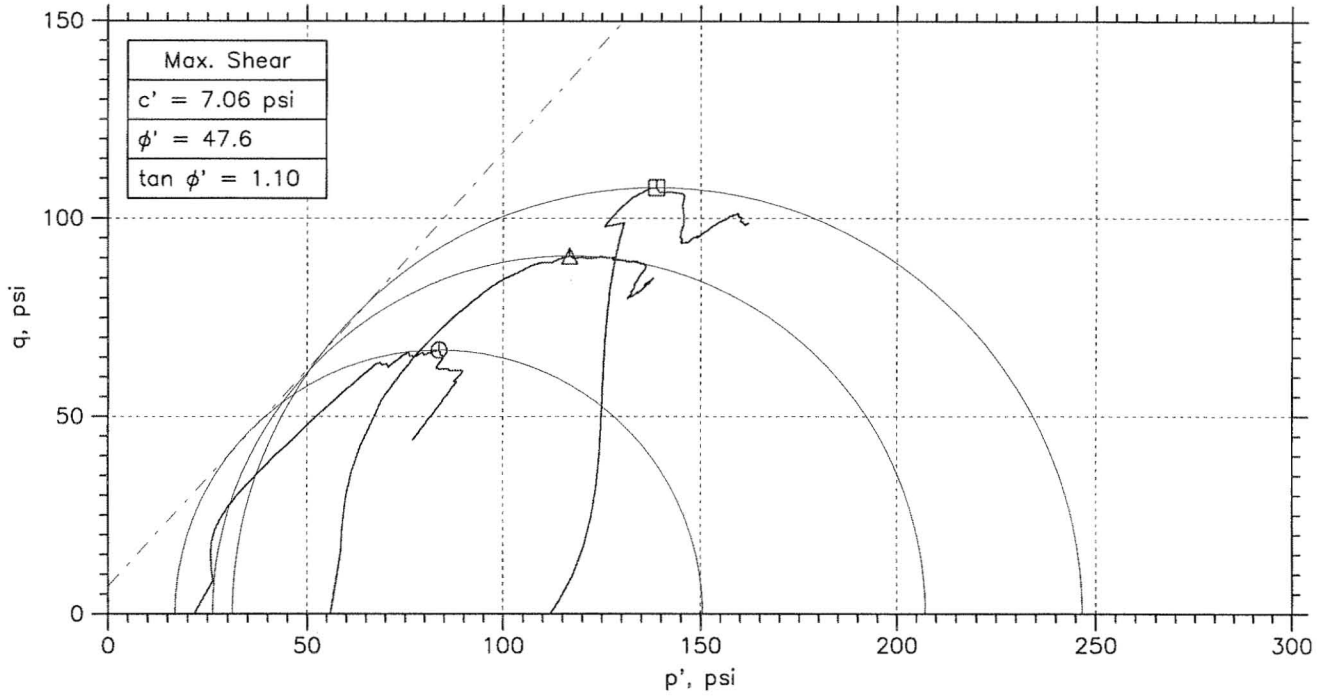
CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767







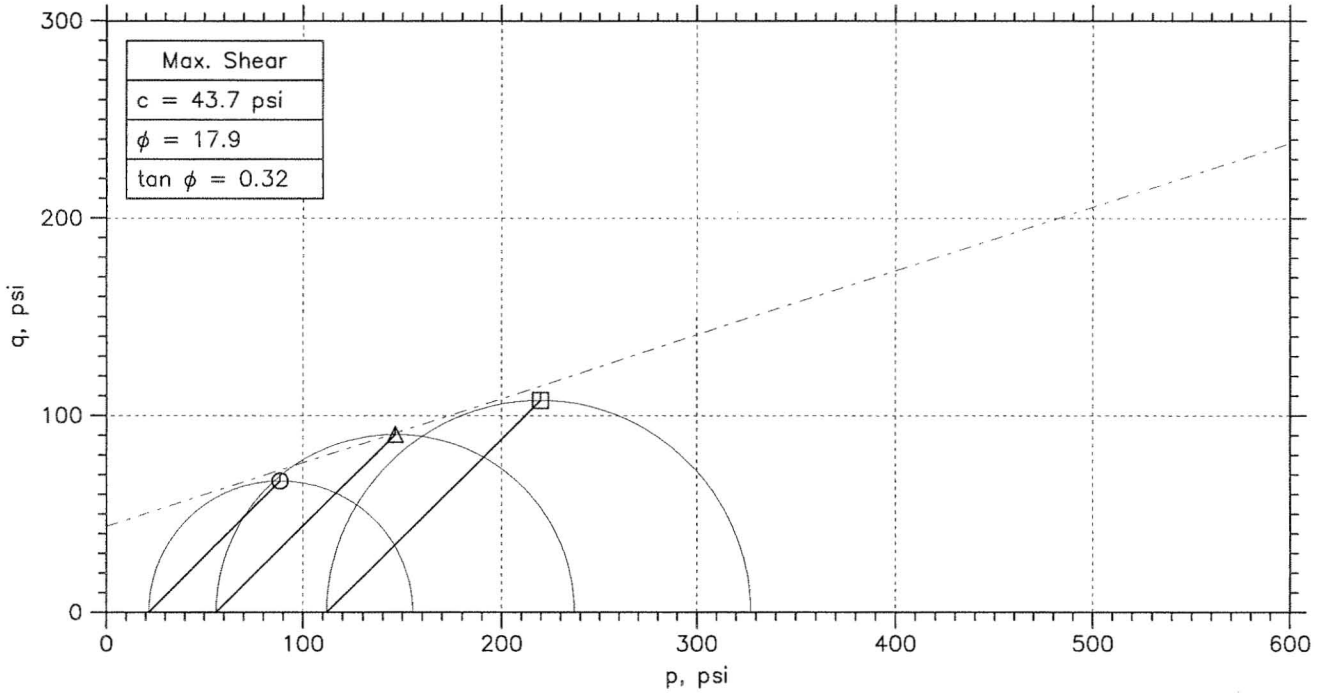
	Sample No.	Test No.	Depth	Tested By	Test Date	Checked By	Check Date	Test File
⊙	UD-1	7497.1	98.5 ft	HJ	6/12/06	JW		7560.1_2545a.dat
△	UD-1	7560.2	98.5 ft.	HJ	6/12/07	JW	JW 7/31/07	7560.2_2546a.dat
⊡	UD-1	7560.3	98.5 ft	HJ	6/12/07	JW		7560.3_2583.dat

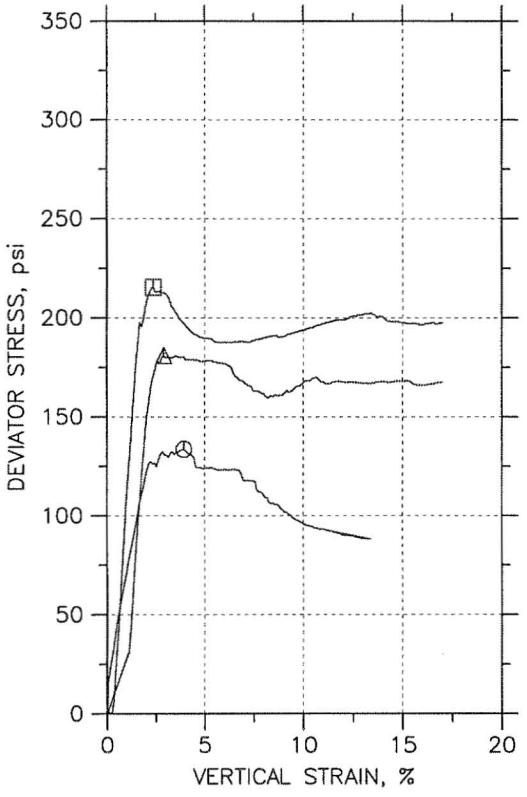
MACTEC

Project: Vogtle	Location: B-4002	Project No.: 6141060286
Boring No.: B-4002	Sample Type: Undisturbed	
Description: Silt (ML) (Visual)		
Remarks:		

Mon, 30-JUL-2007 16:30:05

CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767

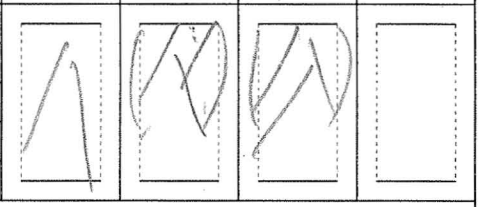




Symbol		⦶	△	⊡	
Sample No.		UD-1	UD-1	UD-1	
Test No.		7497.1	7560.2	7560.3	
Depth		98.5 ft	98.5 ft.	98.5 ft	
Initial	Diameter, in	2.871	2.846	2.872	
	Height, in	5.981	5.966	5.965	
	Water Content, %	40.4	33.1	41.7	
	Dry Density, pcf	75.5	80.62	75.12	
	Saturation, %	89.9	83.3	92.0	
	Void Ratio	1.19	1.05	1.2	
Before Shear	Water Content, %	41.3	41.8	40.3	
	Dry Density, pcf	79.02	78.52	80.04	
	Saturation*, %	100.0	100.0	100.0	
	Void Ratio	1.09	1.11	1.07	
	Back Press., psi	90.	82.01	38.	
Ver. Eff. Cons. Stress, psi		28.	55.98	112.	
Shear Strength, psi		66.79	90.47	107.7	
Strain at Failure, %		3.93	2.92	2.37	
Strain Rate, %/min		0.05	0.05	0.05	
B-Value		0.95	0.96	1.00	
Estimated Specific Gravity		2.65	2.65	2.65	
Liquid Limit		---	---	---	
Plastic Limit		---	---	---	

MACTEC

Project: Vogtle
Location: B-4002
Project No.: 6141060286
Boring No.: B-4002
Sample Type: Undisturbed



Description: Silt (ML) (Visual)

Remarks:

Phase calculations based on start and end of test.

* Saturation is set to 100% for phase calculations.

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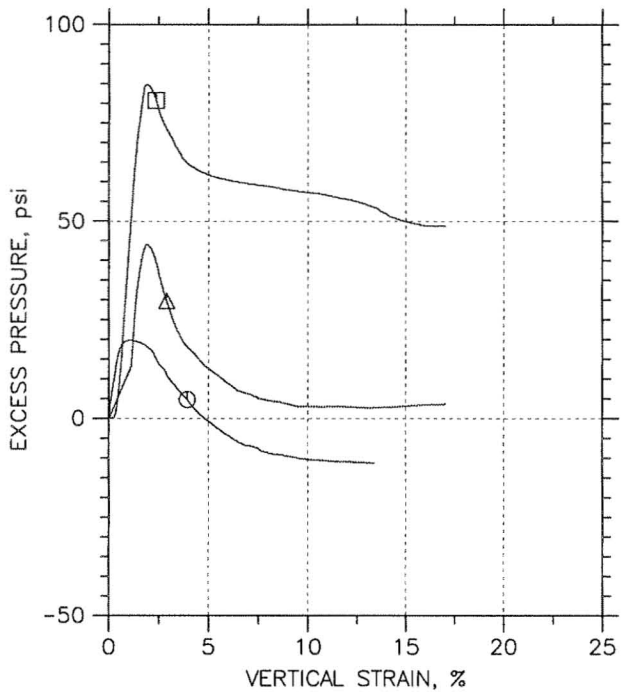
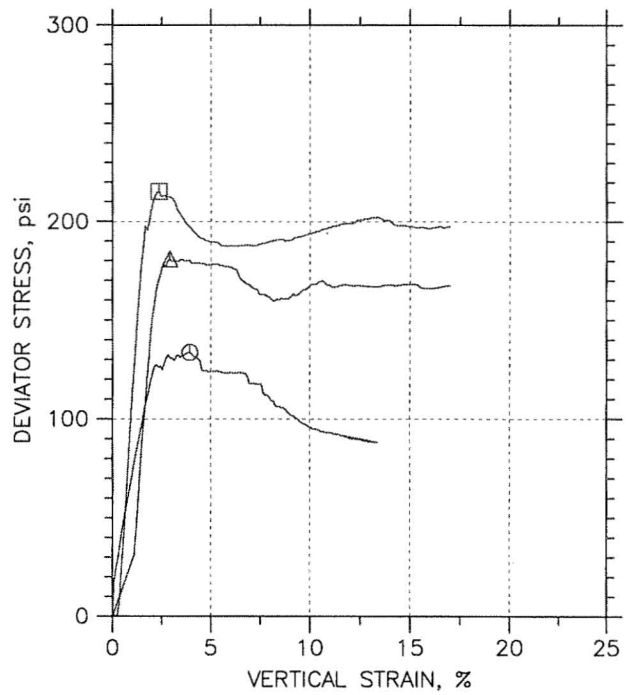
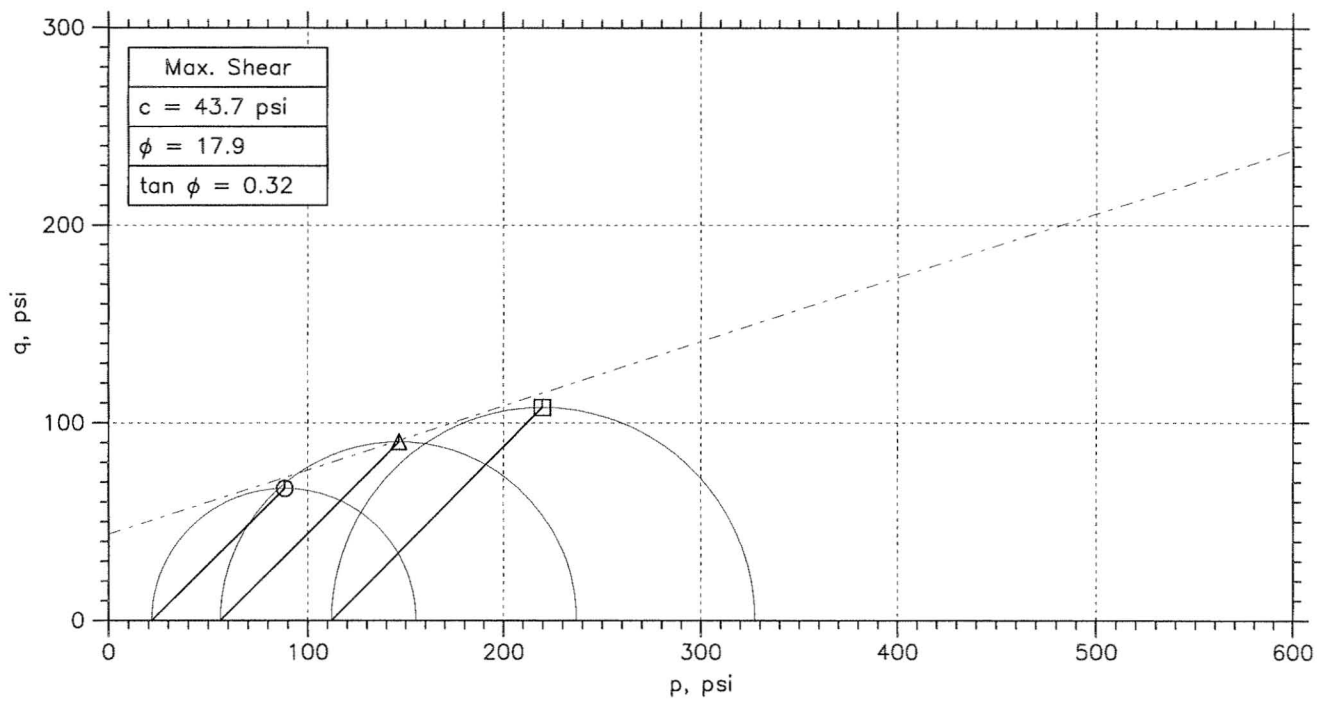
CONSOLIDATED UNDRAINED TRIAXIAL TEST by ASTM D4767







	Sample No.	Test No.	Depth	Tested By	Test Date	Checked By	Check Date	Test File
⦶	UD-1	7497.1	98.5 ft	HJ	6/12/06	JW		7560.1_2545a.dat
△	UD-1	7560.2	98.5 ft.	HJ	6/12/07	JW	JW 7/31/07	7560.2_2546a.dat
⊡	UD-1	7560.3	98.5 ft	HJ	6/12/07	JW		7560.3_2583.dat

MACTEC

Project: Vogtle	Location: B-4002	Project No.: 6141060286
Boring No.: B-4002	Sample Type: Undisturbed	
Description: Silt (ML) (Visual)		
Remarks:		

Mon, 30-JUL-2007 16:30:17