

Sample No.	1	2	3	
Initial	Water Content,	28.2	24.9	34.2
	Dry Density, pcf	95.1	93.5	88.9
	Saturation,	94.1	80.1	99.2
	Void Ratio	0.8379	0.8701	0.9659
	Diameter, in.	2.81	2.85	2.81
	Height, in.	5.88	6.05	6.07
At Test	Water Content,	27.9	29.1	32.5
	Dry Density, pcf	98.1	96.3	91.6
	Saturation,	100.0	100.0	100.0
	Void Ratio	0.7811	0.8149	0.9090
	Diameter, in.	2.78	2.82	2.79
	Height, in.	5.82	5.99	6.01
Strain rate, in./min.	0.02		0.02	
Back Pressure, ksf	4.3	4.3	4.3	
Cell Pressure, ksf	6.5	8.6	13.0	
Fail. Stress, ksf	3.3	5.6	3.3	
Ult. Stress, ksf				
$\sigma_1$ Failure, ksf	5.4	9.9	12.0	
$\sigma_3$ Failure, ksf	2.2	4.3	8.6	

Type of Test:  
Unconsolidated Undrained

Sample Type: undisturbed  
Description:

Assumed Specific Gravity= 2.8

Remarks:  
DRAFT REPORT

Figure \_\_\_\_\_

Client: TVA

Project: TVA Kingston - Proposed Gypsum Stack

Location: NB-21A

Sample Number: UD-1, 2 & 3 (UU)

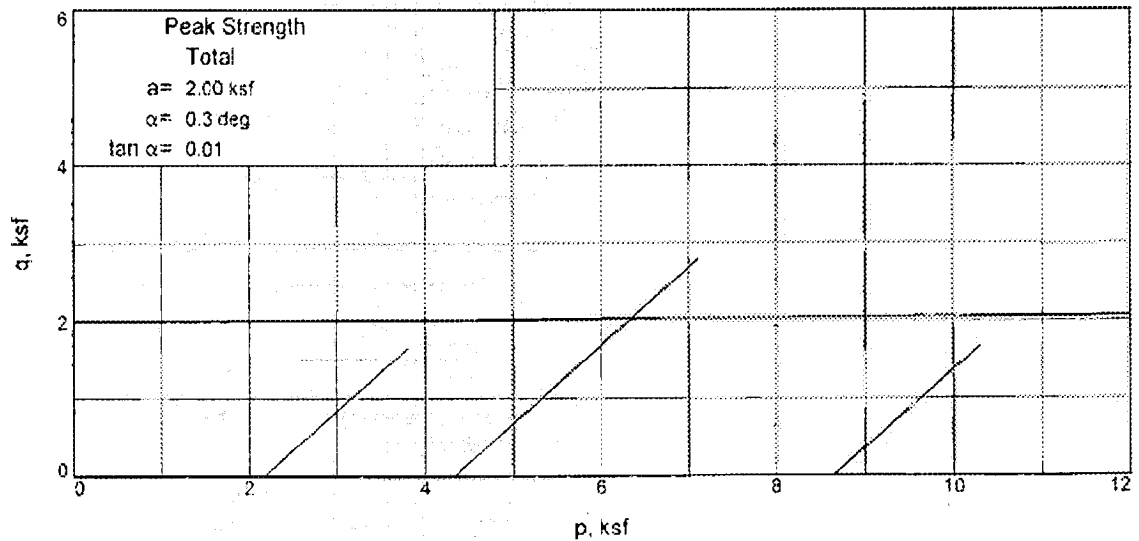
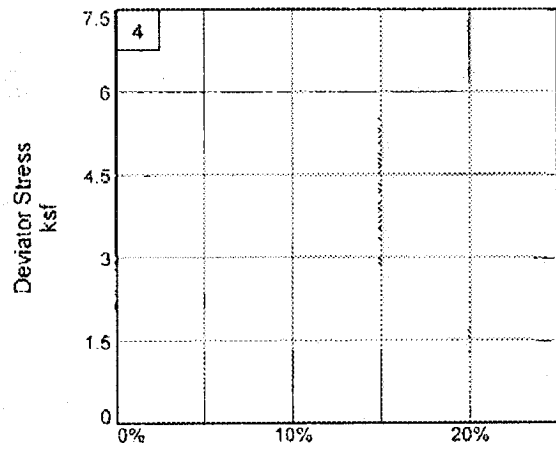
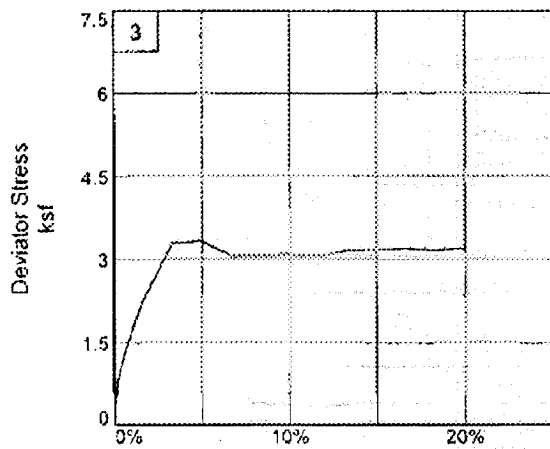
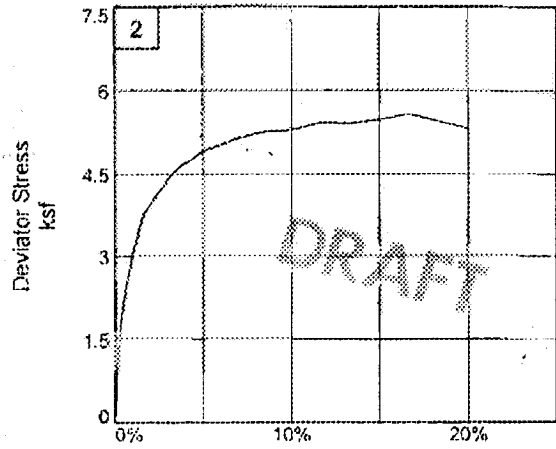
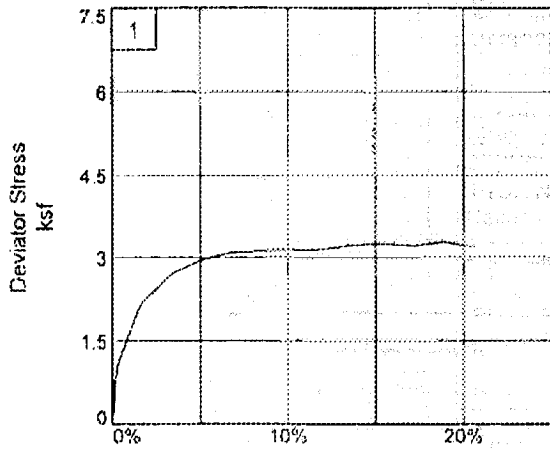
Depth: 15'-23'

Proj. No.: 3043051021

Date:

TRIAXIAL SHEAR TEST REPORT

MACTEC, INC.



Client: TVA

Project: TVA Kingston - Proposed Gypsum Stack

Location: NB-21A

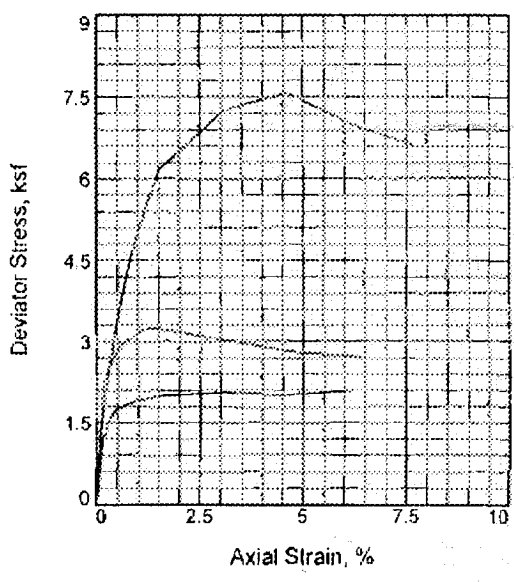
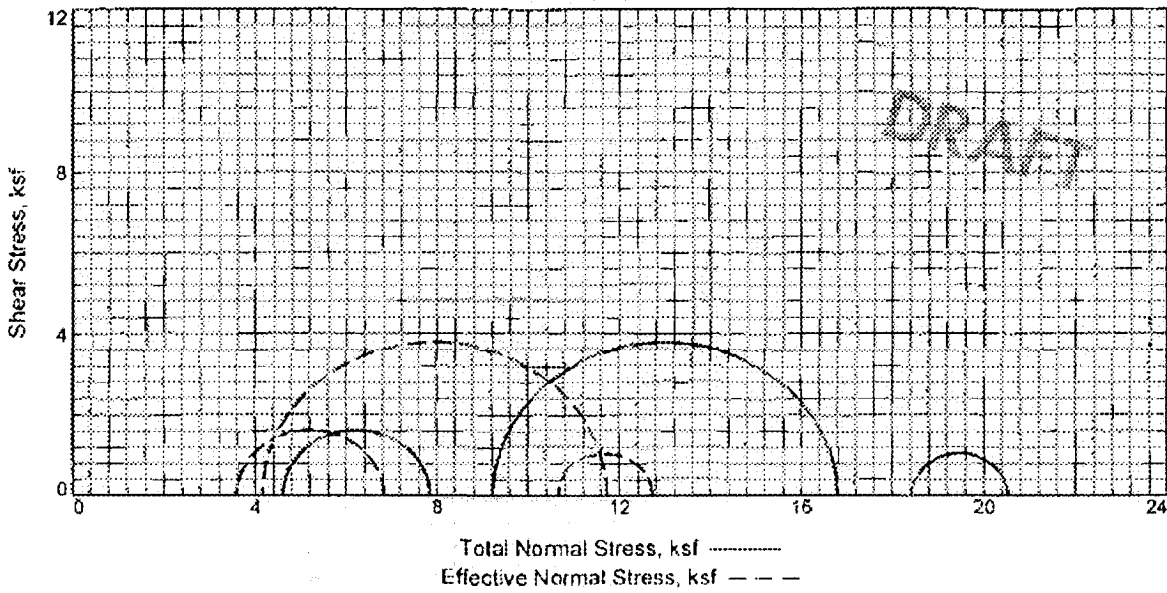
Depth: 15'-23'

Sample Number: UD-1, 2 & 3 (UU)

Project No.: 3043051021

Figure \_\_\_\_\_

MACTEC, INC.



Sample No.		1	2	3
Initial	Water Content,	35.7	26.0	40.3
	Dry Density, pcf	84.6	89.5	78.3
	Saturation,	95.5	77.9	93.1
	Void Ratio	1.0284	0.9192	1.1912
	Diameter, in.	2.81	2.84	2.82
Height, in.		6.14	6.31	6.14
At Test	Water Content,	40.4	40.5	57.7
	Dry Density, pcf	81.3	81.2	66.4
	Saturation,	100.0	100.0	100.0
	Void Ratio	1.1114	1.1150	1.5862
	Diameter, in.	2.85	2.93	2.98
Height, in.		6.23	6.52	6.49
Strain rate, in./min.		0.02	0.02	0.02
Back Pressure, ksf		2.9	2.9	2.9
Cell Pressure, ksf		7.5	12.1	21.3
Fail. Stress, ksf		3.2	7.6	2.1
Total Pore Pr., ksf		3.9	7.9	10.7
Ult. Stress, ksf				
Total Pore Pr., ksf				
$\bar{\sigma}_1$ Failure, ksf		6.8	11.7	12.7
$\bar{\sigma}_3$ Failure, ksf		3.6	4.1	10.6

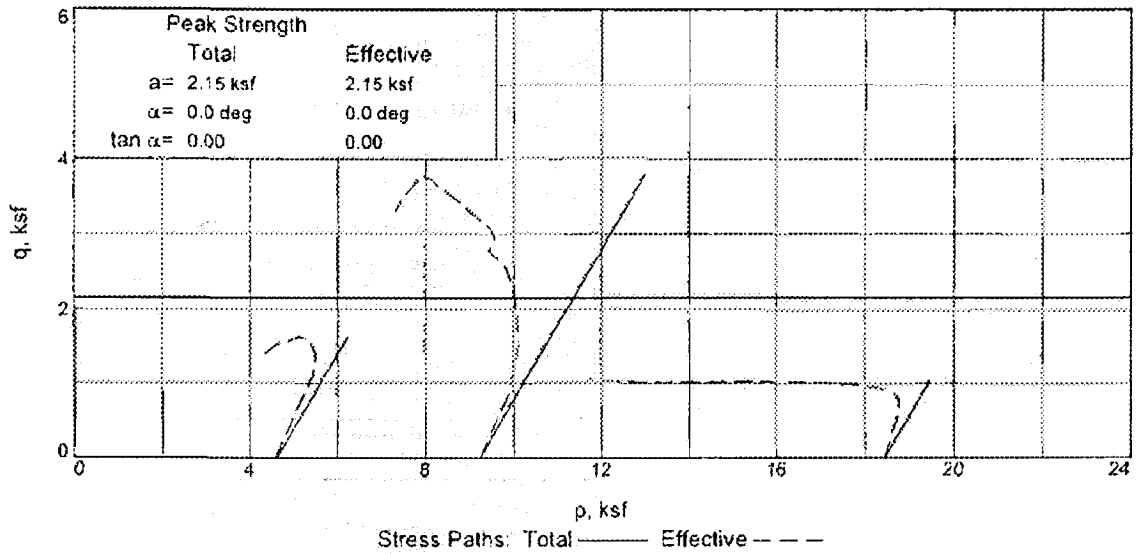
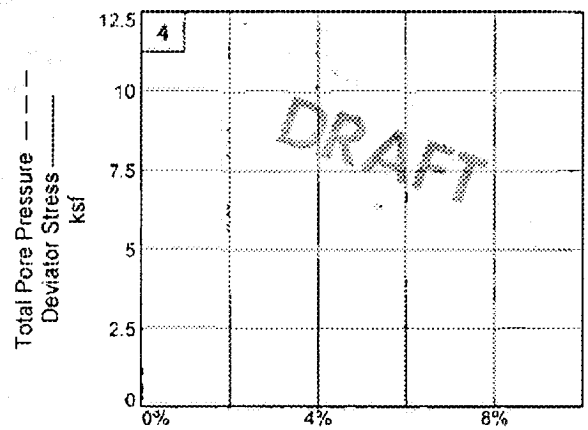
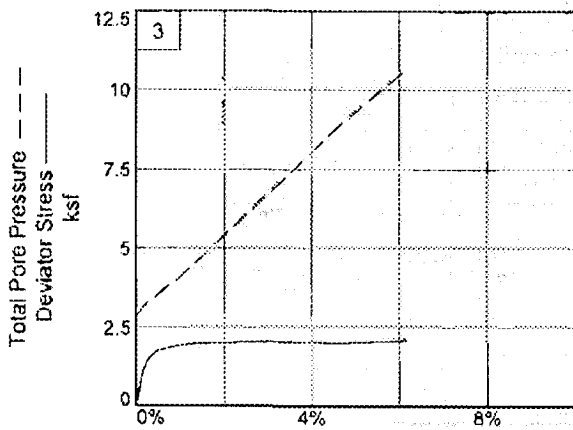
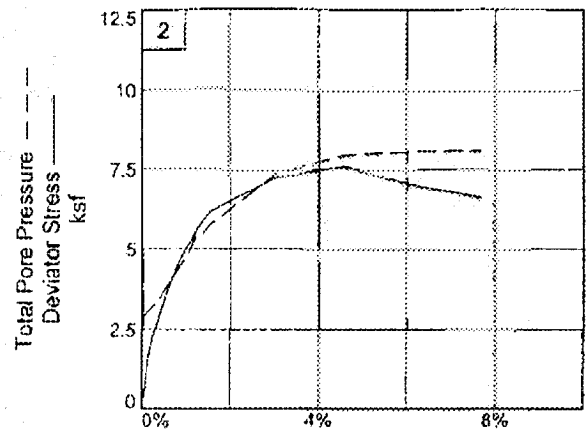
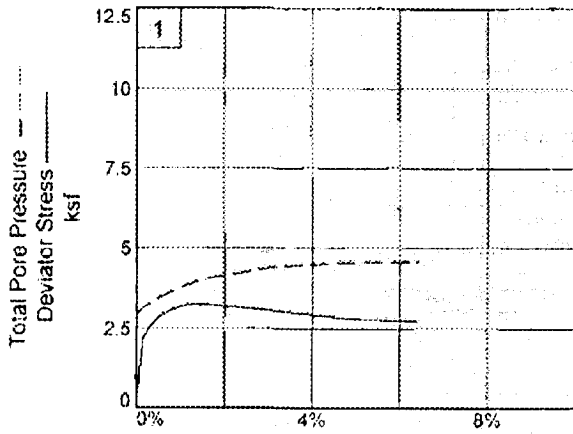
**Type of Test:**  
CU with Pore Pressures  
**Sample Type:** undisturbed  
**Description:** CU

**Specific Gravity=** 2.75  
**Remarks:**

**Client:** TVA  
**Project:** TVA Kingston - Proposed Gypsum Stack  
**Location:** NB-44  
**Sample Number:** UD-4,3, and 5      **Depth:** 19'-28.5'  
**Proj. No.:** 3043051021      **Date:**

TRIAXIAL SHEAR TEST REPORT  
**MACTEC, INC.**

**Tested By:** Alexander      **Checked By:** Hamlett



Client: TVA

Project: TVA Kingston - Proposed Gypsum Stack

Location: NB-44

Depth: 19'-28.5'

Sample Number: UD-4,3,and 5

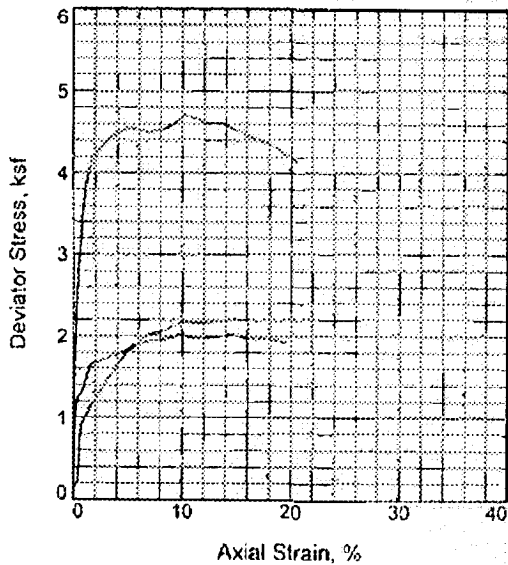
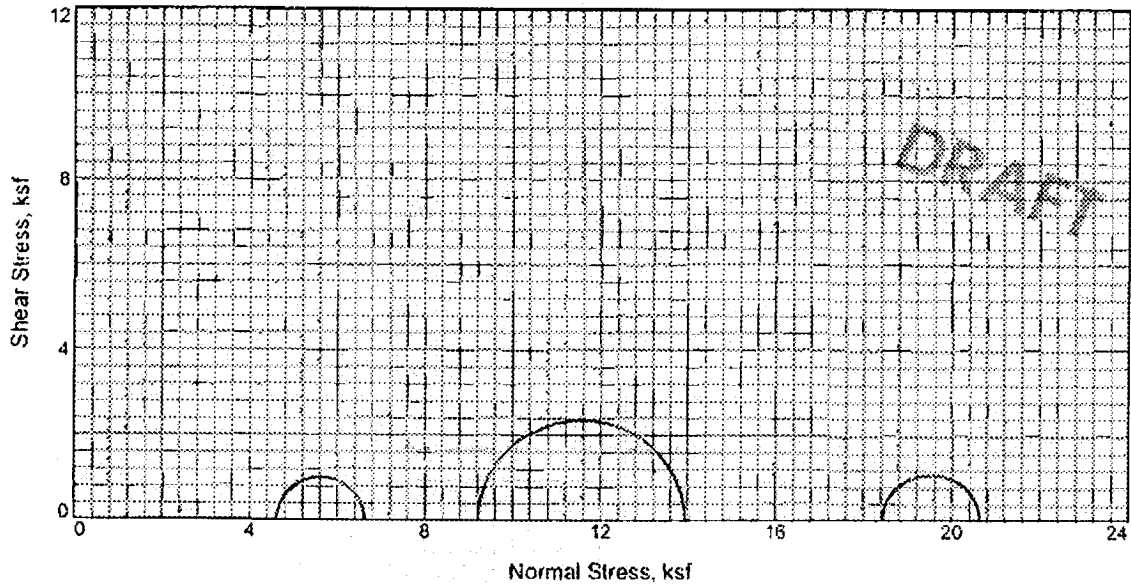
Project No.: 3043051021

Figure \_\_\_\_\_

**MACTEC, INC.**

Tested By: Alexander

Checked By: Hamlett



Sample No.		1	2	3
Initial	Water Content,	42.2	23.4	39.4
	Dry Density, pcf	80.1	89.9	79.6
	Saturation,	100.0	69.5	92.3
	Void Ratio	1.1819	0.9433	1.1947
	Diameter, in.	2.83	2.98	2.82
	Height, in.	6.15	5.84	6.01
At Test	Water Content,	42.2	33.7	42.7
	Dry Density, pcf	80.1	89.9	79.6
	Saturation,	100.0	100.0	100.0
	Void Ratio	1.1819	0.9433	1.1947
	Diameter, in.	2.83	2.98	2.82
	Height, in.	6.15	5.84	6.01
Strain rate, in./min.		0.02	0.02	0.02
Back Pressure, ksf		2.9	2.9	2.9
Cell Pressure, ksf		7.5	12.1	21.3
Fail. Stress, ksf		2.0	4.7	2.2
Ult. Stress, ksf				
$\sigma_1$ Failure, ksf		6.6	13.9	20.6
$\sigma_3$ Failure, ksf		4.6	9.2	18.4

Type of Test:  
Unconsolidated Undrained  
Sample Type: undisturbed  
Description: UU

Specific Gravity= 2.80  
Remarks:

Figure \_\_\_\_\_

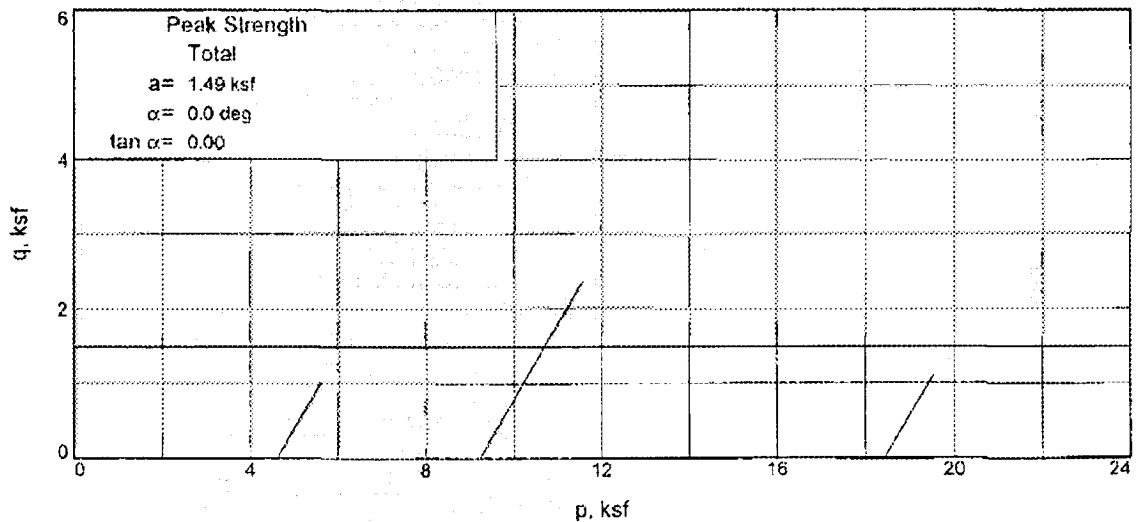
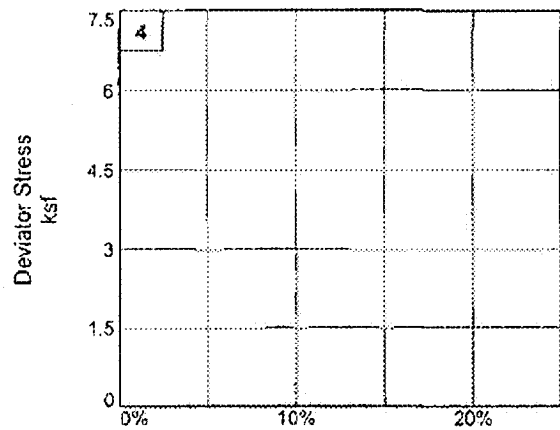
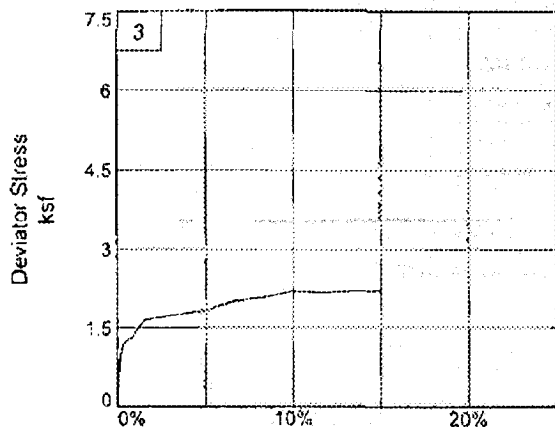
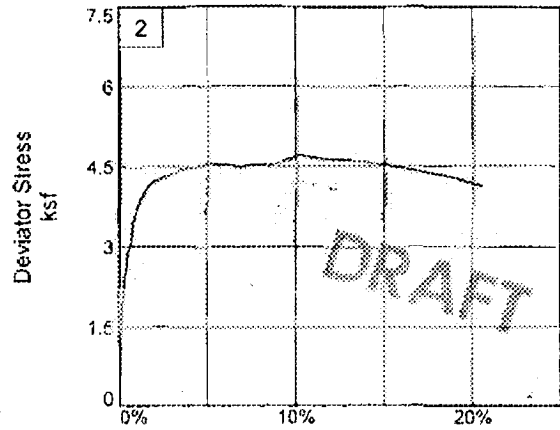
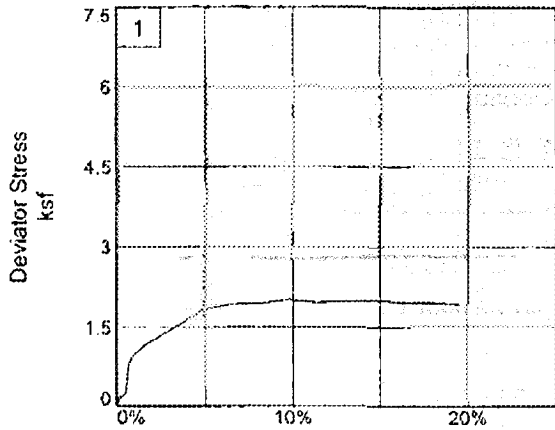
Client: TVA  
Project: TVA Kingston - Proposed Gypsum Stack  
Location: NB-44  
Sample Number: UD-4,3,and 5      Depth: 19'-28.5'  
Proj. No.: 3043051021      Date:

TRIAXIAL SHEAR TEST REPORT

**MACTEC, INC.**

Tested By: Alexander

Checked By: Hamlett



Client: TVA

Project: TVA Kingston - Proposed Gypsum Stack

Location: NB-44

Depth: 19'-28.5'

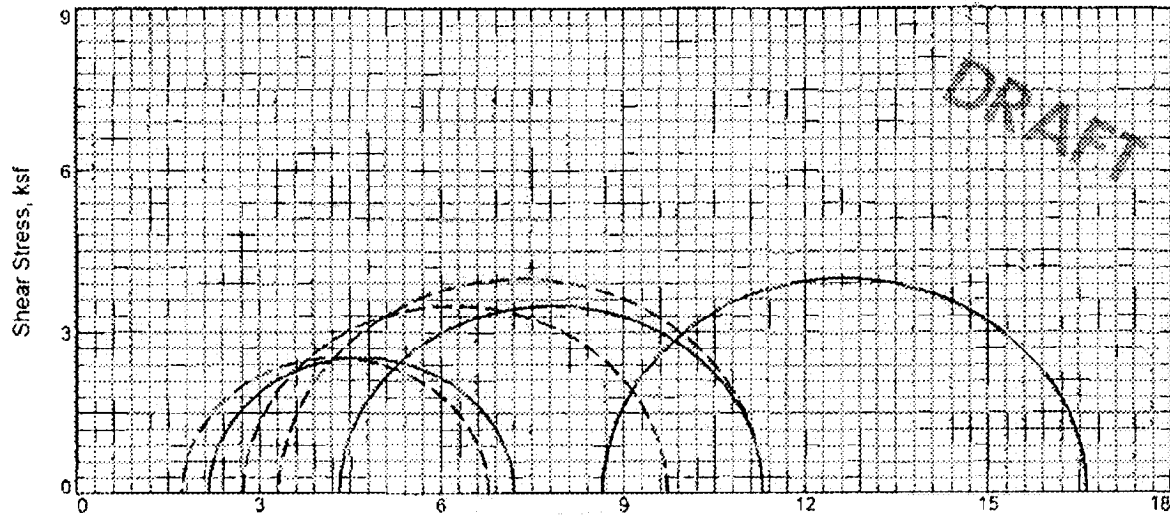
Sample Number: UD-4,3,and 5

Project No.: 3043051021

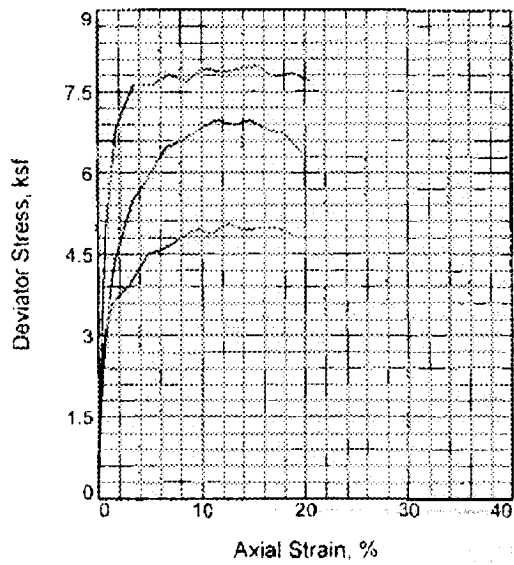
Figure \_\_\_\_\_

MACTEC, INC.

Tested By: Alexander \_\_\_\_\_ Checked By: Hamlett \_\_\_\_\_



Total Normal Stress, ksf ———  
 Effective Normal Stress, ksf - - -



Sample No.	1	2	3	
Initial	Water Content,	35.4	27.6	27.2
	Dry Density, pcf	84.0	96.1	93.1
	Saturation,	93.1	96.6	88.7
	Void Ratio	1.0446	0.7869	0.8436
	Diameter, in.	2.82	2.79	2.84
	Height, in.	5.99	5.90	5.66
At Test	Water Content,	53.6	35.2	37.8
	Dry Density, pcf	69.4	87.3	84.2
	Saturation,	100.0	100.0	100.0
	Void Ratio	1.4739	0.9670	1.0386
	Diameter, in.	3.00	2.88	2.94
	Height, in.	6.39	6.10	5.85
Strain rate, in./min.	0.02	0.02	0.02	
Back Pressure, ksf	5.8	5.8	5.8	
Cell Pressure, ksf	7.9	10.1	14.4	
Fail. Stress, ksf		5.0	7.0	8.0
	Total Pore Pr., ksf	6.2	7.3	11.1
Ult. Stress, ksf				
	Total Pore Pr., ksf			
$\bar{\sigma}_1$ Failure, ksf		6.8	9.7	11.3
$\bar{\sigma}_3$ Failure, ksf		1.7	2.7	3.3

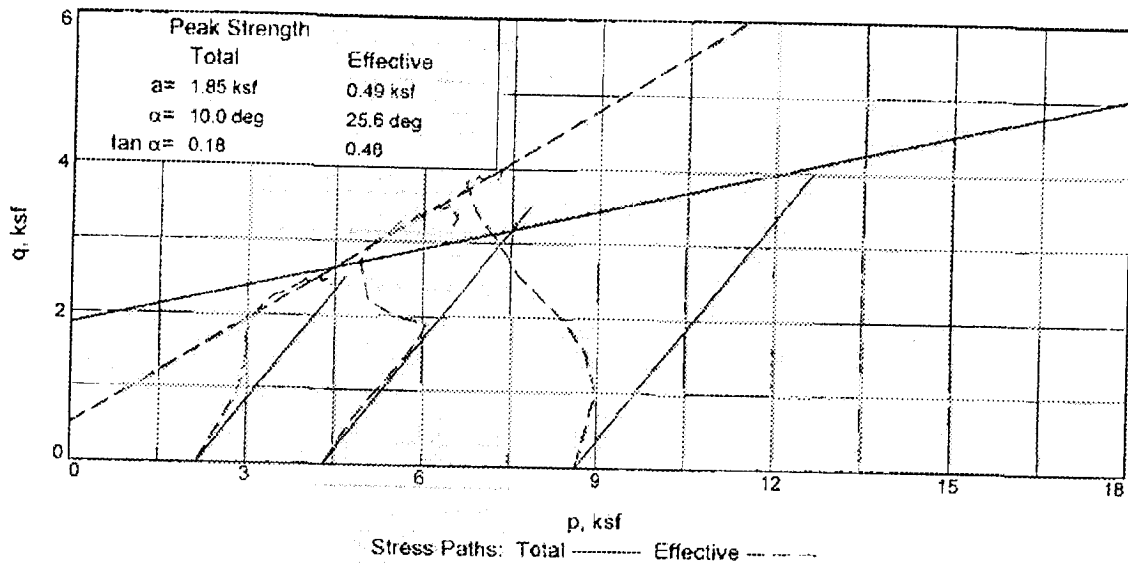
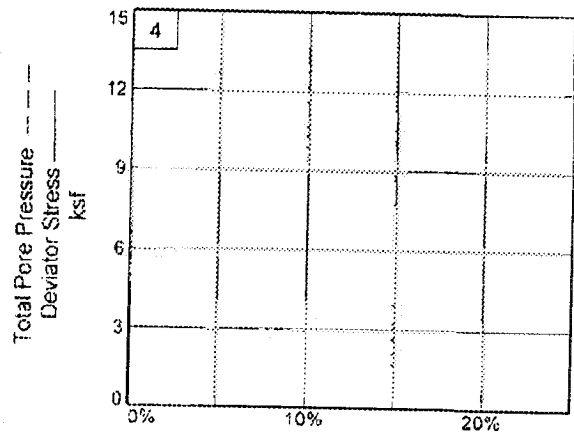
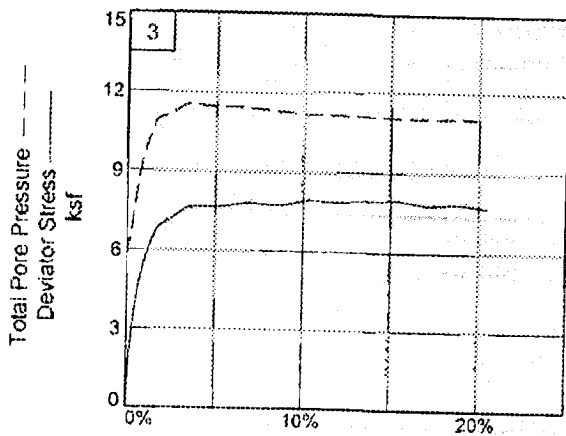
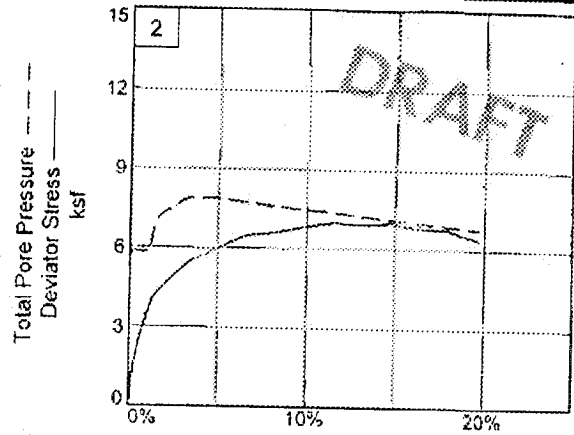
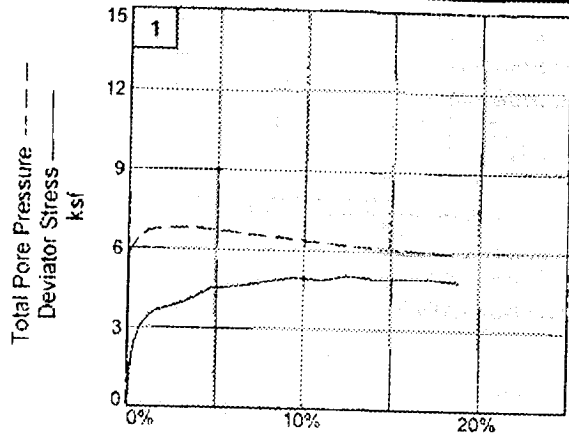
**Type of Test:**  
 CU with Pore Pressures  
**Sample Type:** undisturbed  
**Description:** CU

**Specific Gravity=** 2.75  
**Remarks:**

**Figure** \_\_\_\_\_

**Client:** TVA  
**Project:** TVA Kingston - Proposed Gypsum Stack  
**Location:** NB-47A  
**Sample Number:** UD-1,2,and 3      **Depth:** 9'-17'  
**Proj. No.:** 3043051021      **Date:**  
 TRIAXIAL SHEAR TEST REPORT  
**MACTEC, INC.**

**Tested By:** Alexander      **Checked By:** Hamlett



Client: TVA

Project: TVA Kingston - Proposed Gypsum Stack

Location: NB-47A

Depth: 9'-17'

Sample Number: UD-1,2, and 3

Project No.: 3043051021

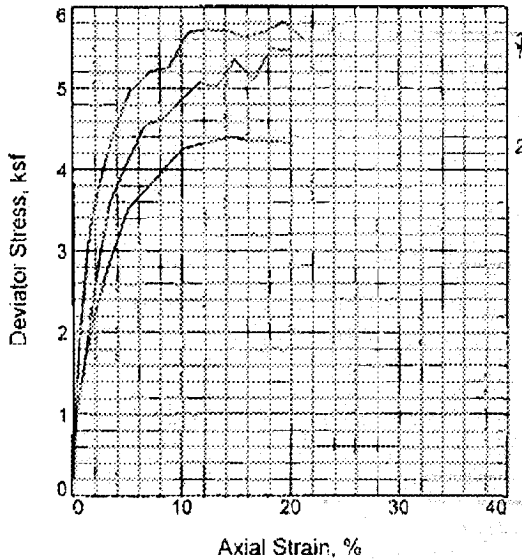
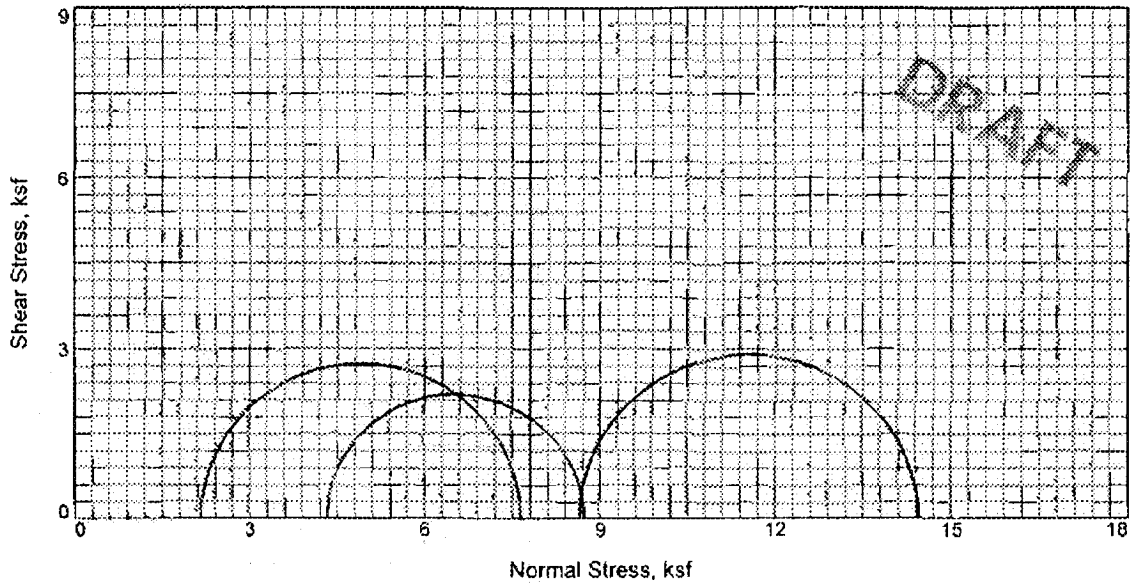
Figure \_\_\_\_\_

MACTEC, INC.

Tested By: Alexander

Checked By: Hamlett





Sample No.	1	2	3
Initial			
Water Content,	25.4	25.6	20.5
Dry Density, pcf	97.3	99.4	100.9
Saturation,	91.4	96.8	80.5
Void Ratio	0.7638	0.7268	0.7016
Diameter, in.	2.88	2.83	2.79
Height, in.	6.05	5.93	5.67
At Test			
Water Content,	27.8	26.4	25.5
Dry Density, pcf	97.3	99.4	100.9
Saturation,	100.0	100.0	100.0
Void Ratio	0.7638	0.7268	0.7016
Diameter, in.	2.88	2.83	2.79
Height, in.	6.05	5.93	5.67
Strain rate, in./min.	0.02	0.02	0.02
Back Pressure, ksf	5.8	5.8	5.8
Cell Pressure, ksf	7.9	10.1	14.4
Fail. Stress, ksf	5.5	4.4	5.8
Ult. Stress, ksf			
$\sigma_1$ Failure, ksf	7.6	8.7	14.4
$\sigma_3$ Failure, ksf	2.2	4.3	8.6

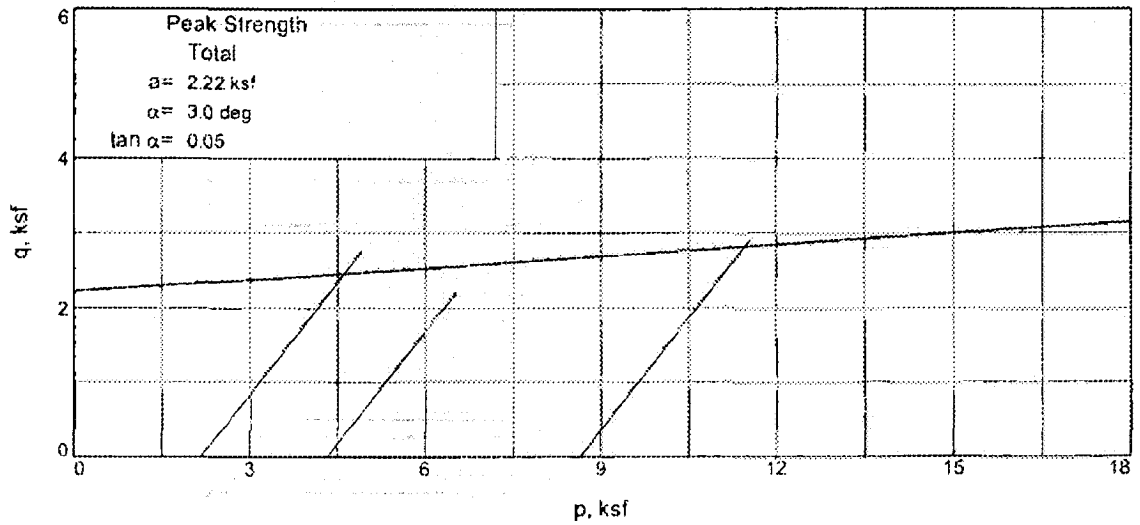
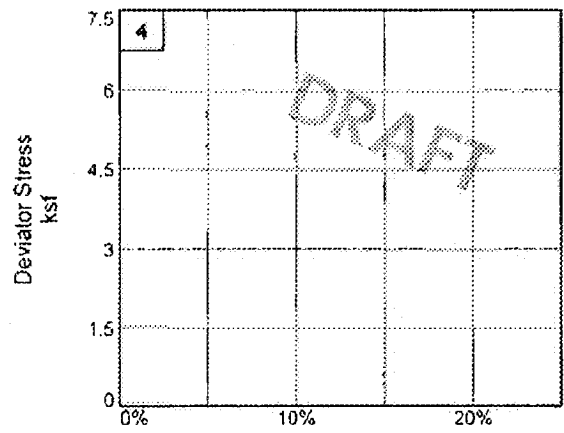
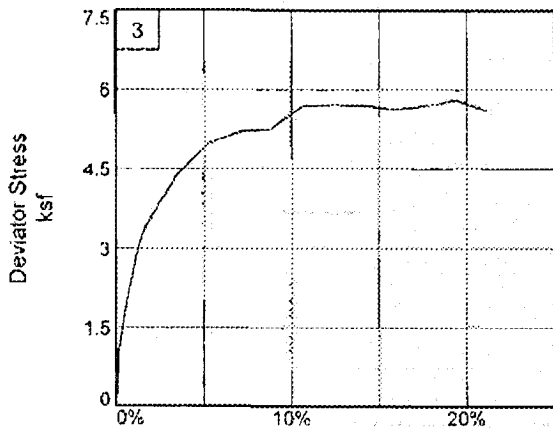
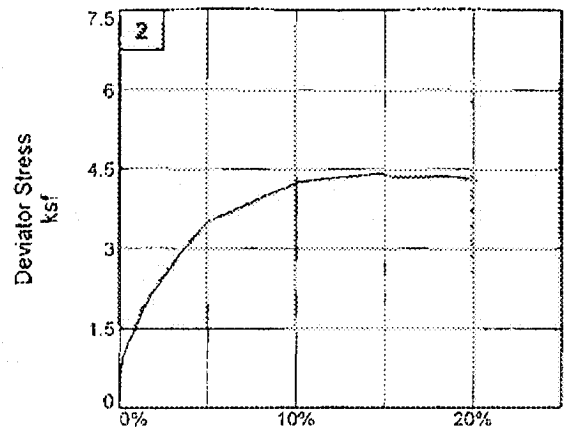
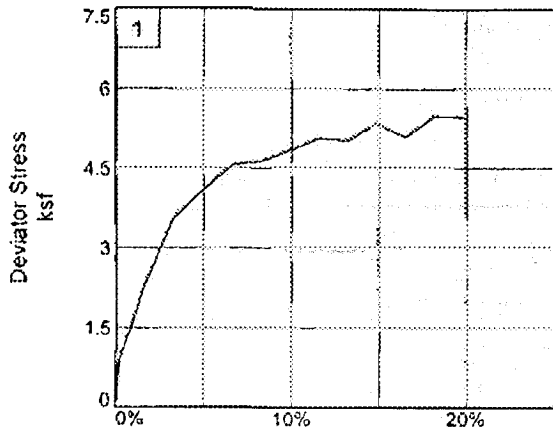
**Type of Test:**  
Unconsolidated Undrained  
**Sample Type:** undisturbed  
**Description:** UU

**Specific Gravity=** 2.75  
**Remarks:**

**Figure** \_\_\_\_\_

**Client:** TVA  
**Project:** TVA Kingston - Proposed Gypsum Stack  
**Location:** NB-47A  
**Sample Number:** UD-1,2,and 3      **Depth:** 9'-17'  
**Proj. No.:** 3043051021      **Date:**  
**TRIAXIAL SHEAR TEST REPORT**  
**MACTEC, INC.**

**Tested By:** Alexander \_\_\_\_\_ **Checked By:** Hamlett \_\_\_\_\_



Client: TVA

Project: TVA Kingston - Proposed Gypsum Stack

Location: NB-47A

Depth: 9'-17'

Sample Number: UD-1,2, and 3

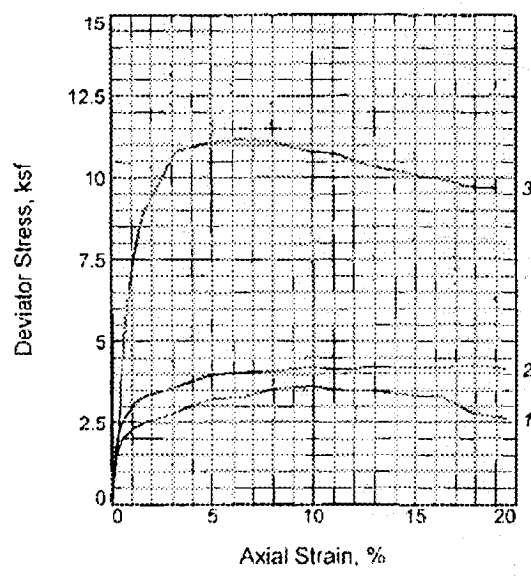
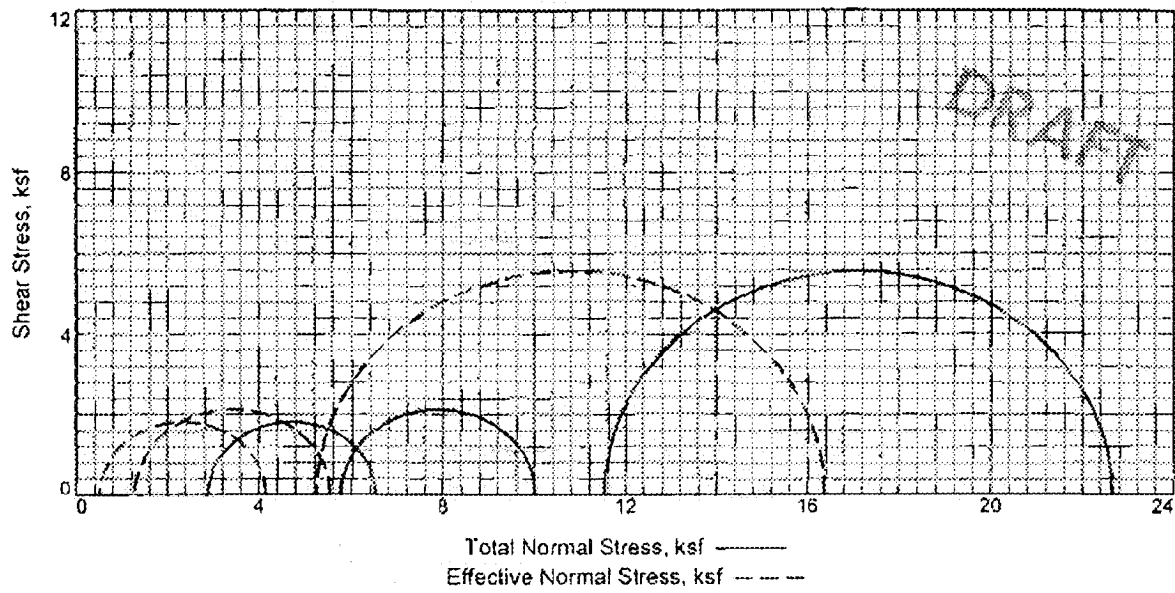
Project No.: 3043051021

Figure \_\_\_\_\_

MACTEC, INC.

Tested By: Alexander

Checked By: Hamlett



Sample No.		1	2	3
Initial	Water Content,	34.3	30.5	30.5
	Dry Density, pcf	83.5	87.6	85.3
	Saturation,	89.3	87.3	83.0
	Void Ratio	1.0551	0.9599	1.0117
	Diameter, in.	2.82	2.82	2.82
At Test	Height, in.	6.01	6.03	6.12
	Water Content,	43.0	39.7	42.8
	Dry Density, pcf	78.7	82.0	78.9
	Saturation,	100.0	100.0	100.0
	Void Ratio	1.1819	1.0926	1.1762
Strain rate, in./min. Back Pressure, ksf Cell Pressure, ksf Fail. Stress, ksf Total Pore Pr., ksf Ult. Stress, ksf Total Pore Pr., ksf $\bar{\sigma}_1$ Failure, ksf $\bar{\sigma}_3$ Failure, ksf	Diameter, in.	2.88	2.89	2.89
	Height, in.	6.13	6.16	6.29
	Strain rate, in./min.	0.02	0.02	0.02
	Back Pressure, ksf	2.9	2.9	2.9
	Cell Pressure, ksf	5.8	8.6	14.4
	Fail. Stress, ksf	3.6	4.3	11.1
	Total Pore Pr., ksf	5.2	7.4	9.2
	Ult. Stress, ksf			
	Total Pore Pr., ksf			
	$\bar{\sigma}_1$ Failure, ksf	4.1	5.5	16.4
$\bar{\sigma}_3$ Failure, ksf	0.5	1.3	5.2	

**Type of Test:**  
 CU with Pore Pressures  
**Sample Type:** undisturbed  
**Description:** CU

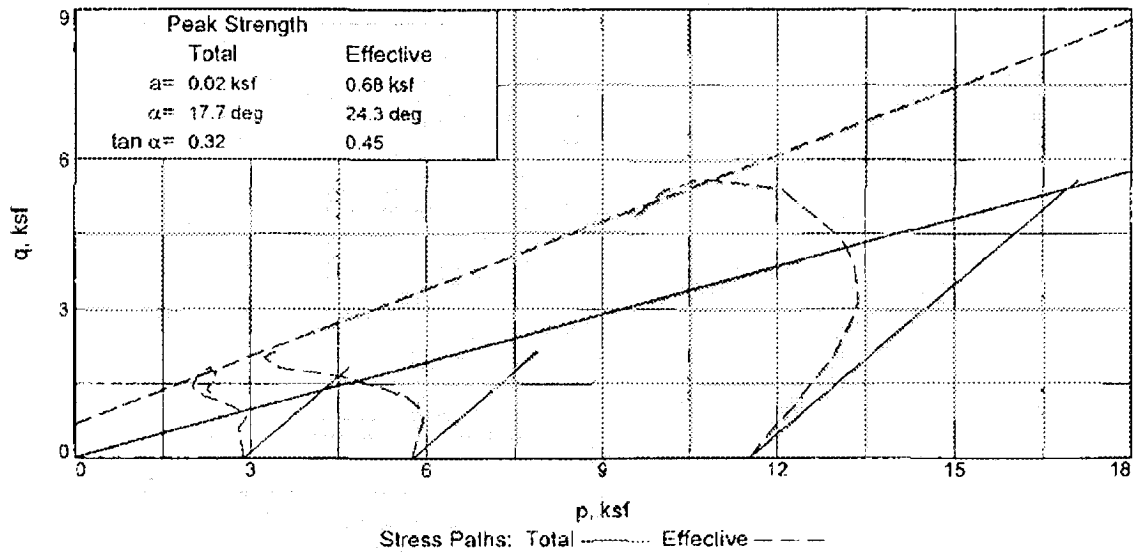
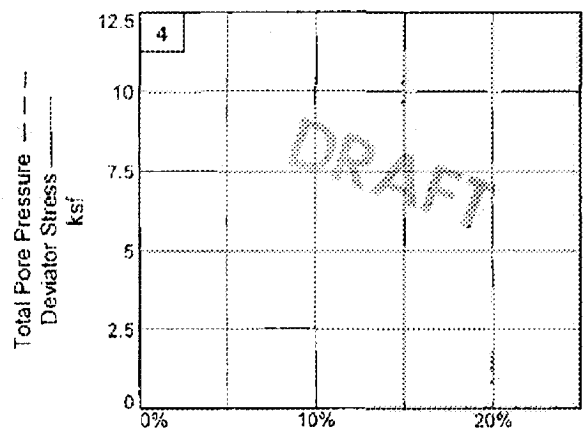
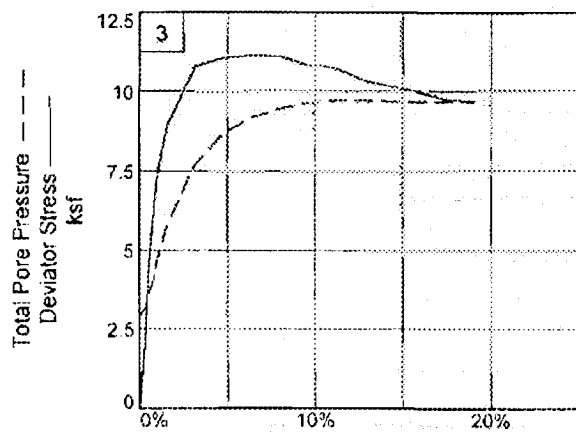
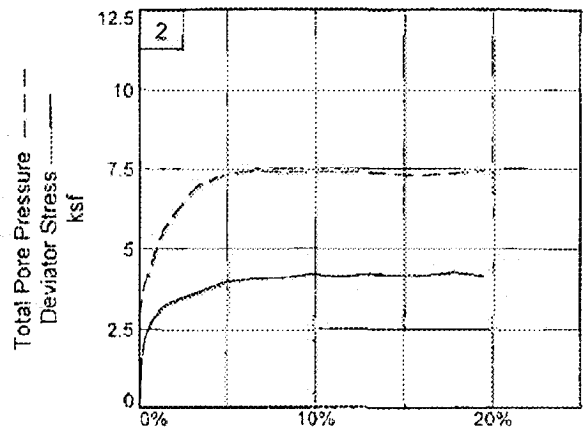
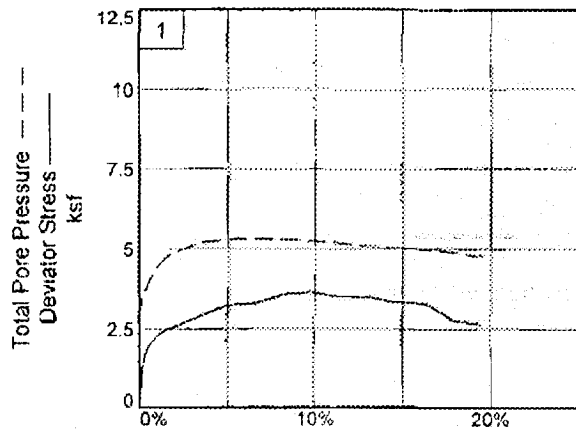
**Specific Gravity**= 2.75  
**Remarks:**

**Client:** TVA  
**Project:** TVA Kingston - Proposed Gypsum Stack  
**Location:** NB-47A  
**Sample Number:** UD-4,5,and 6      **Depth:** 18'-27'  
**Proj. No.:** 3043051021      **Date:**

TRIAXIAL SHEAR TEST REPORT  
**MACTEC, INC.**

**Figure** \_\_\_\_\_

**Tested By:** Alexander      **Checked By:** Hamlett



Client: TVA

Project: TVA Kingston - Proposed Gypsum Stack

Location: NB-47A

Depth: 18'-27'

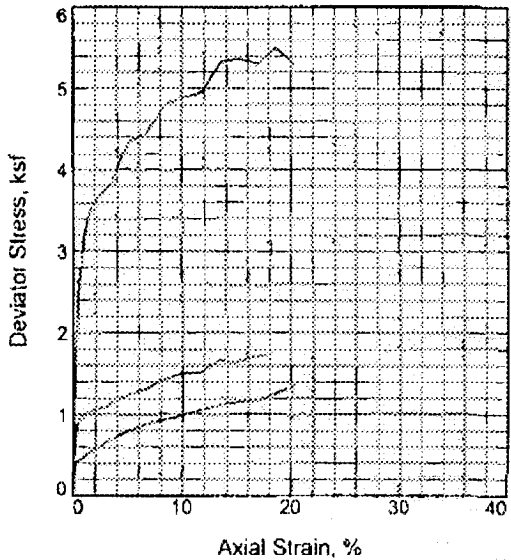
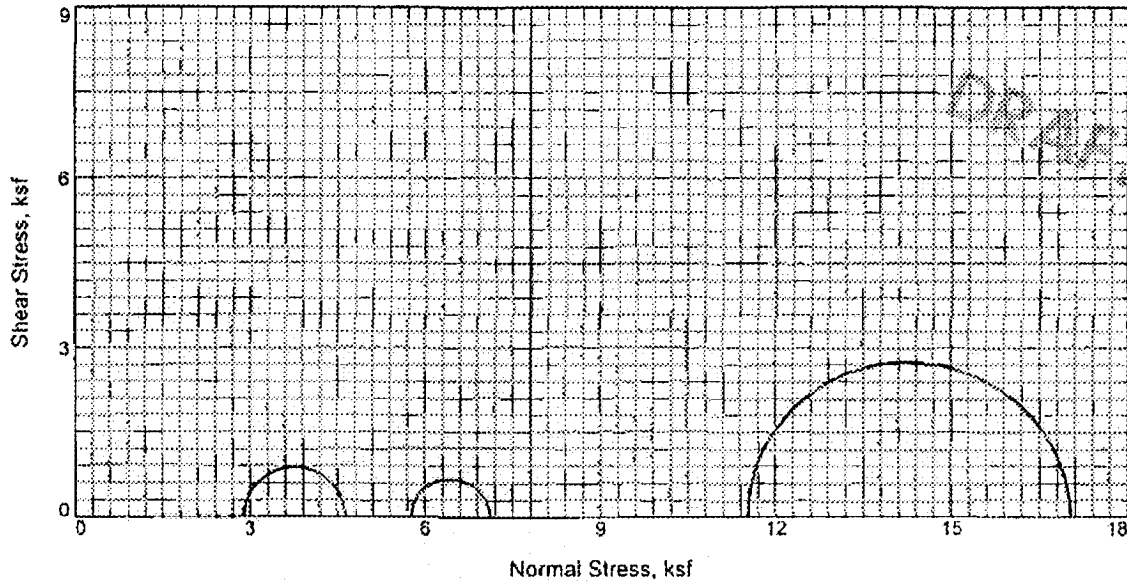
Sample Number: UD-4,5,and 6

Project No.: 3043051021

Figure \_\_\_\_\_

**MACTEC, INC.**

Tested By: Alexander ..... Checked By: Hamlett .....



Sample No.		1	2	3
Initial	Water Content,	25.8	31.3	27.5
	Dry Density, pcf	94.4	87.2	91.7
	Saturation,	86.6	89.0	86.7
	Void Ratio	0.8193	0.9683	0.8712
	Diameter, in.	2.82	2.86	2.83
	Height, in.	6.05	5.90	5.92
At Test	Water Content,	29.8	35.2	31.7
	Dry Density, pcf	94.4	87.2	91.7
	Saturation,	100.0	100.0	100.0
	Void Ratio	0.8193	0.9683	0.8712
	Diameter, in.	2.82	2.86	2.83
	Height, in.	6.05	5.90	5.92
Strain rate, in./min.		0.02	0.02	0.02
Back Pressure, ksf		2.9	2.9	2.9
Cell Pressure, ksf		5.8	8.6	14.4
Fail. Stress, ksf		1.8	1.4	5.5
Ult. Stress, ksf				
$\sigma_1$ Failure, ksf		4.6	7.1	17.0
$\sigma_3$ Failure, ksf		2.9	5.8	11.5

Type of Test:  
Unconsolidated Undrained  
Sample Type: undisturbed  
Description: UU

Specific Gravity= 2.75  
Remarks:

Figure \_\_\_\_\_

Client: TVA

Project: TVA Kingston - Proposed Gypsum Stack

Location: NB-47A

Sample Number: UD-4,5, and 6

Depth: 18'-27'

Proj. No.: 3043051021

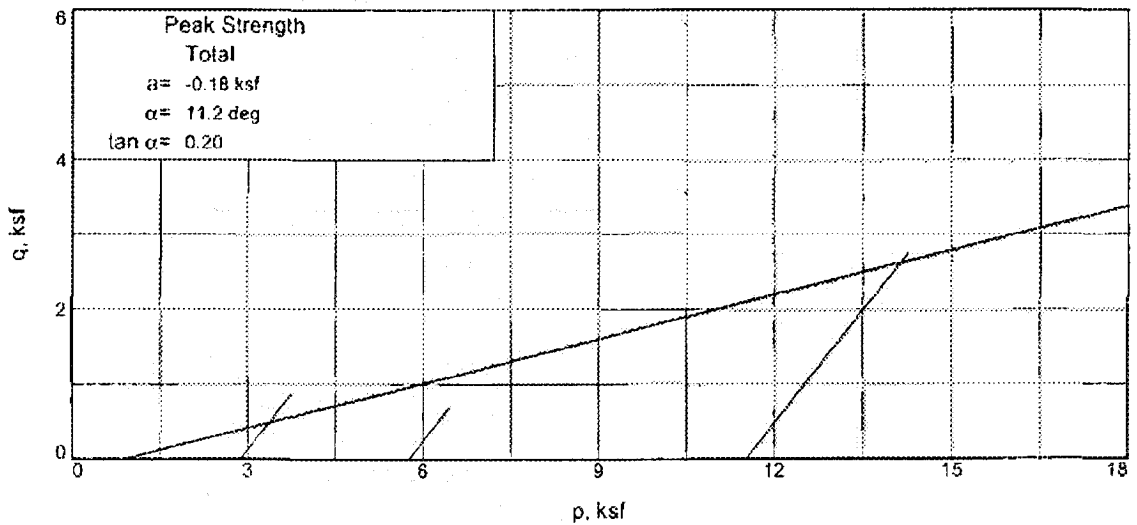
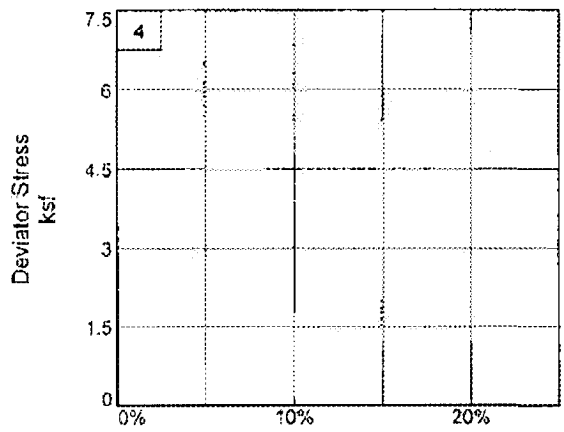
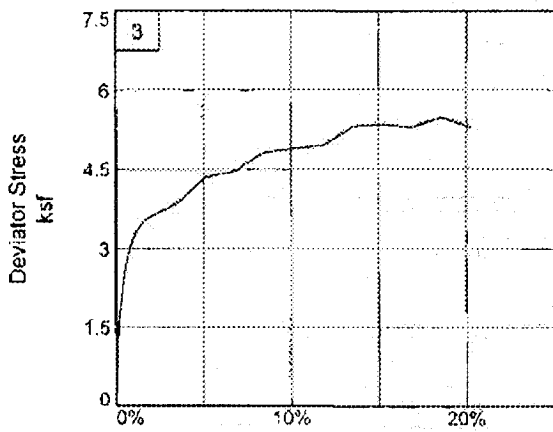
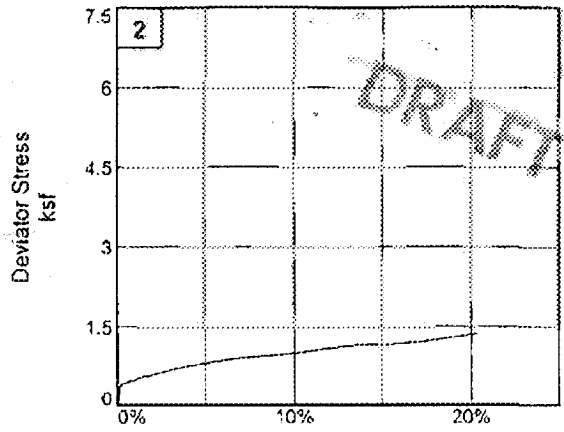
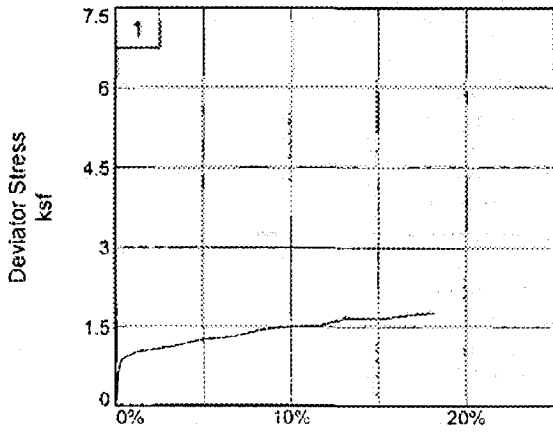
Date:

TRIAXIAL SHEAR TEST REPORT

MACTEC, INC.

Tested By: Alexander

Checked By: Hamlett



Client: TVA

Project: TVA Kingston - Proposed Gypsum Stack

Location: NB-47A

Depth: 18'-27'

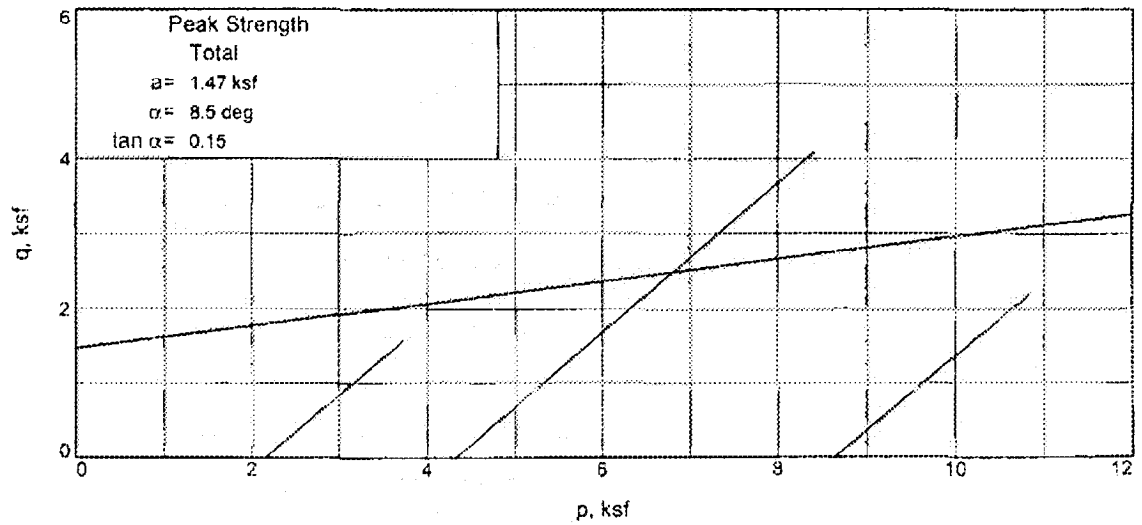
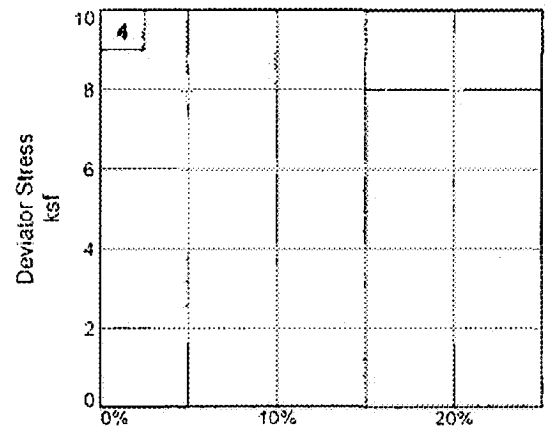
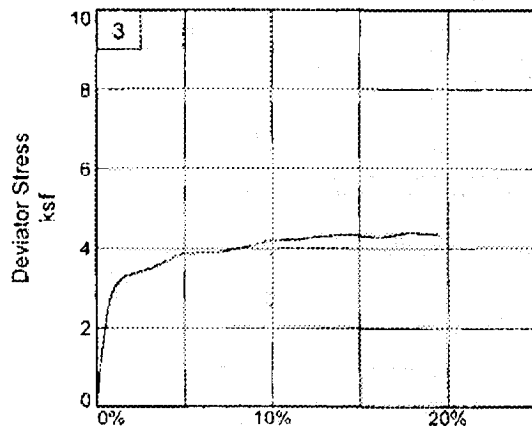
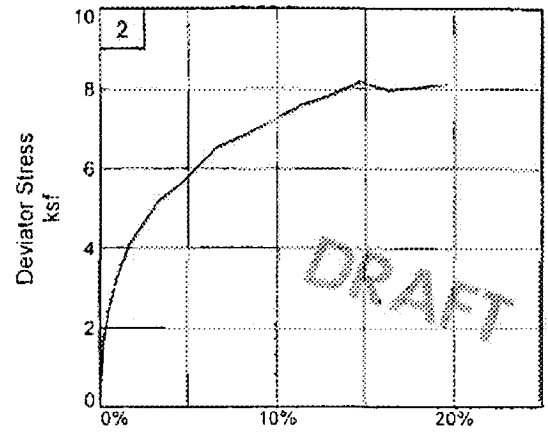
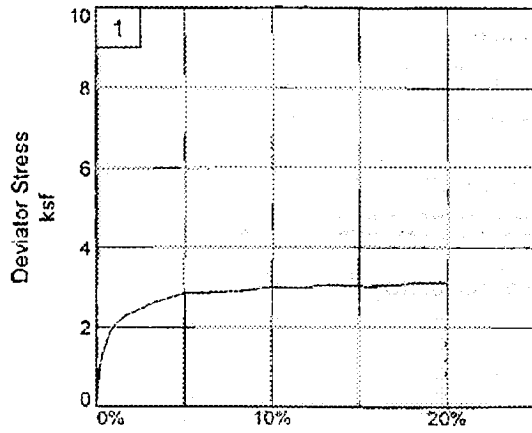
Sample Number: UD-4.5, and 6

Project No.: 3043051021

Figure \_\_\_\_\_

**MACTEC, INC.**

Tested By: Alexander Checked By: Hamlett



Client: TVA

Project: TVA Kingston - Proposed Gypsum Stack

Location: NB-77

Depth: 4'-14'

Sample Number: UD-1,2, and 3

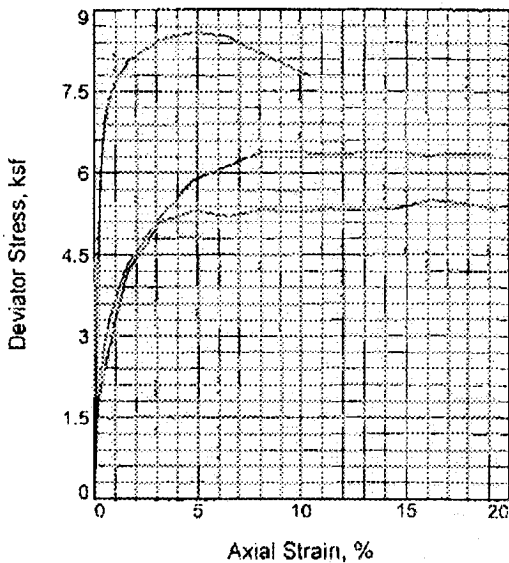
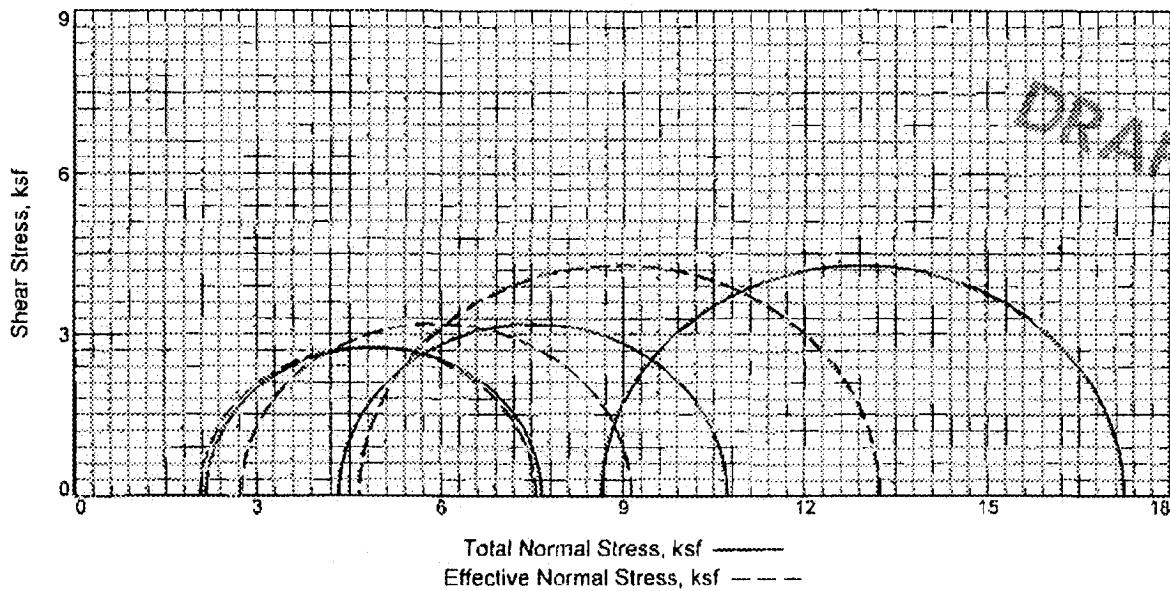
Project No.: 3043051021

Figure \_\_\_\_\_

MACTEC, INC.

Tested By: Alexander

Checked By: Hamlett



Sample No.		1	2	3
Initial	Water Content,	24.6	19.0	30.2
	Dry Density, pcf	99.2	105.0	87.2
	Saturation,	92.9	82.4	85.7
	Void Ratio	0.7298	0.6350	0.9695
	Diameter, in.	2.84	2.86	2.82
Height, in.		6.03	6.10	6.07
At Test	Water Content,	31.8	27.7	40.8
	Dry Density, pcf	91.5	97.4	80.9
	Saturation,	100.0	100.0	100.0
	Void Ratio	0.8753	0.7627	1.1220
	Diameter, in.	2.92	2.93	2.89
Height, in.		6.19	6.25	6.22
Strain rate, in./min.		0.02	0.02	0.02
Back Pressure, ksf		5.8	5.8	5.8
Cell Pressure, ksf		7.9	10.1	14.4
Fail. Stress, ksf		5.5	6.4	8.6
Total Pore Pr., ksf		5.9	7.3	9.7
Ult. Stress, ksf				
Total Pore Pr., ksf				
$\bar{\sigma}_1$ Failure, ksf		7.6	9.1	13.2
$\bar{\sigma}_3$ Failure, ksf		2.1	2.7	4.7

Type of Test:  
CU with Pore Pressures  
Sample Type: undisturbed  
Description: CU

Specific Gravity= 2.75

Remarks:

Figure \_\_\_\_\_

Client: TVA

Project: TVA Kingston - Proposed Gypsum Stack

Location: NB-77

Sample Number: UD-1,2,and 3

Depth: 4'-14'

Proj. No.: 3043051021

Date:

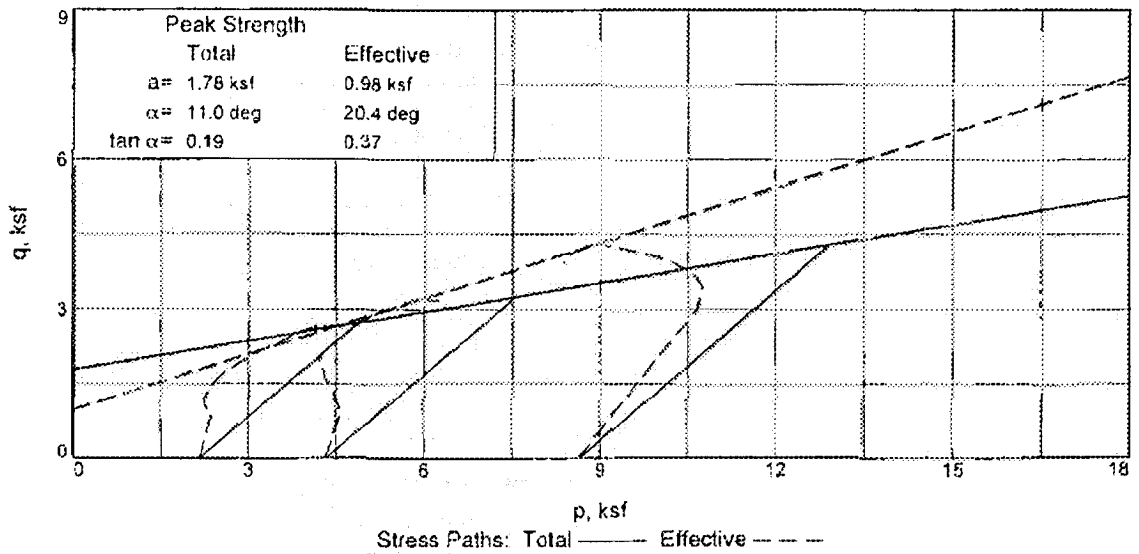
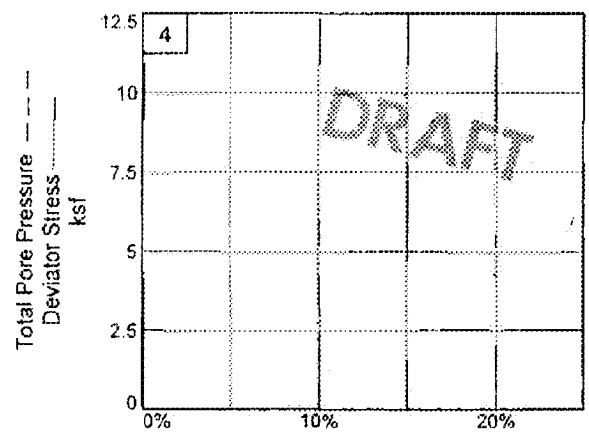
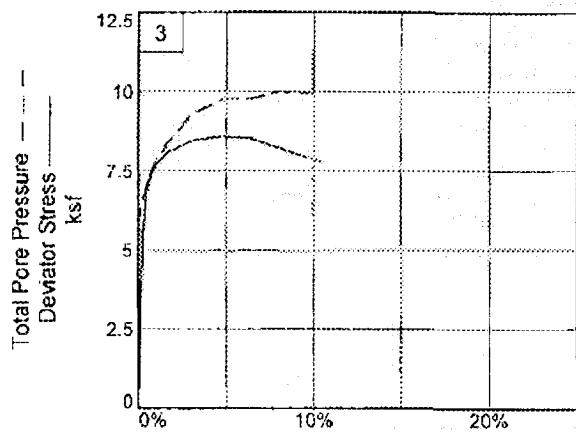
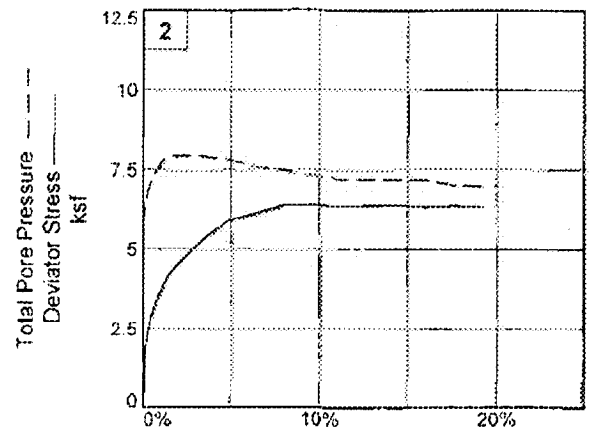
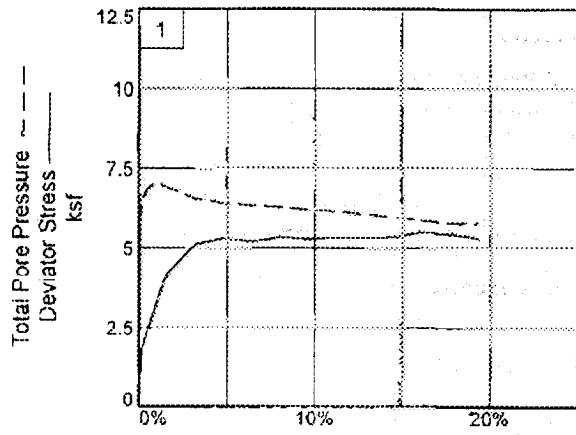
TRIAXIAL SHEAR TEST REPORT

MACTEC, INC.

Tested By: Alexander

Checked By: Hamlett





Client: TVA

Project: TVA Kingston - Proposed Gypsum Stack

Location: NB-77

Depth: 4'-14'

Sample Number: UD-1,2, and 3

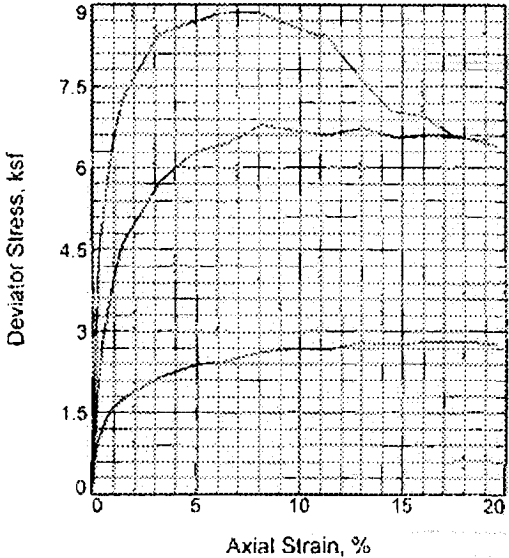
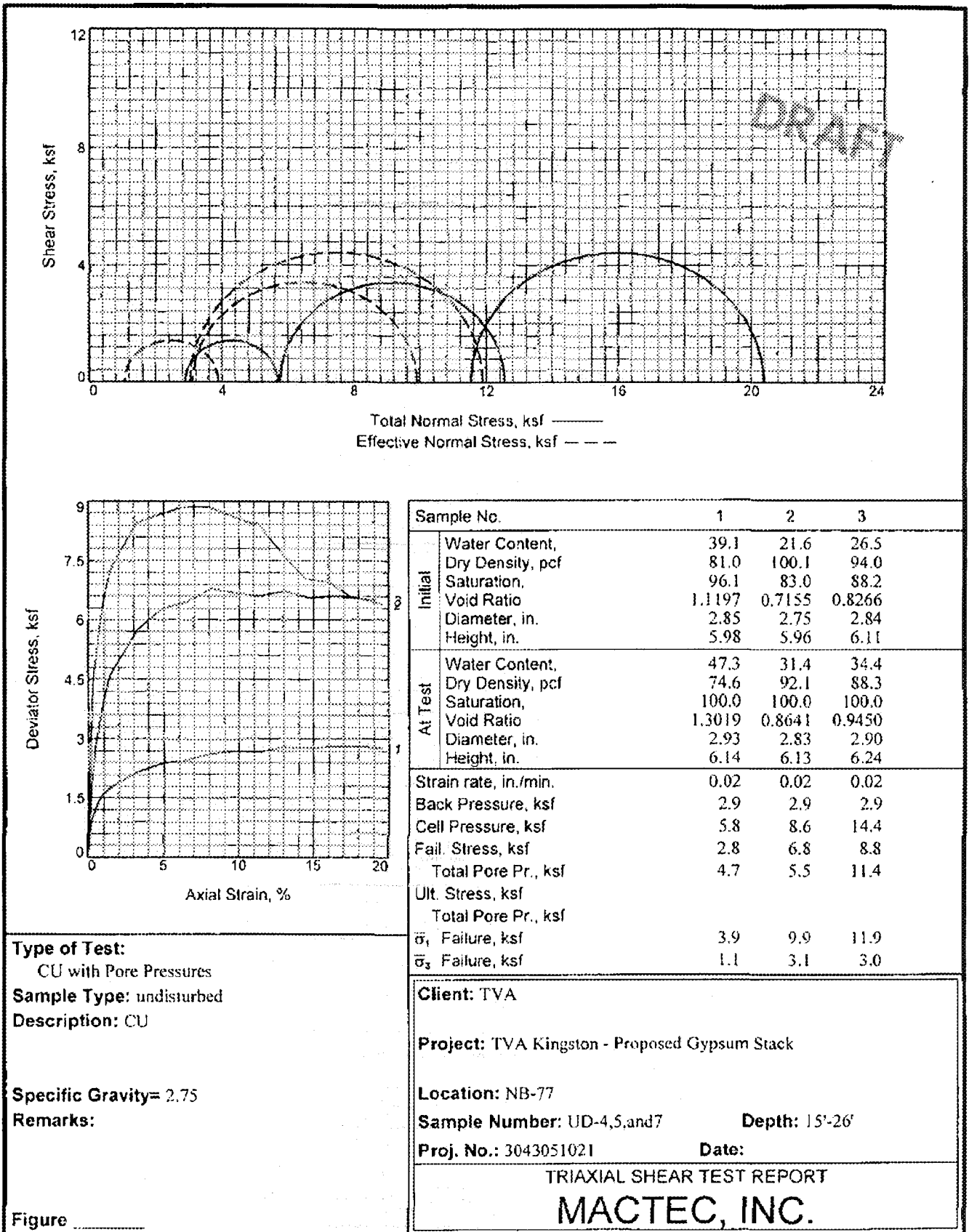
Project No.: 3043051021

Figure \_\_\_\_\_

**MACTEC, INC.**

Tested By: Alexander

Checked By: Hamlett



Sample No.		1	2	3
Initial	Water Content,	39.1	21.6	26.5
	Dry Density, pcf	81.0	100.1	94.0
	Saturation,	96.1	83.0	88.2
	Void Ratio	1.1197	0.7155	0.8266
	Diameter, in.	2.85	2.75	2.84
At Test	Height, in.	5.98	5.96	6.11
	Water Content,	47.3	31.4	34.4
	Dry Density, pcf	74.6	92.1	88.3
	Saturation,	100.0	100.0	100.0
	Void Ratio	1.3019	0.8641	0.9450
Strain rate, in./min.	Diameter, in.	2.93	2.83	2.90
	Height, in.	6.14	6.13	6.24
Back Pressure, ksf	0.02	0.02	0.02	
Cell Pressure, ksf	2.9	2.9	2.9	
Fail. Stress, ksf	Total Pore Pr., ksf	5.8	8.6	14.4
	Total Pore Pr., ksf	2.8	6.8	8.8
Ult. Stress, ksf	Ult. Stress, ksf	4.7	5.5	11.4
	Total Pore Pr., ksf			
$\sigma_1$ Failure, ksf				
$\sigma_3$ Failure, ksf	3.9	9.9	11.9	
	1.1	3.1	3.0	

**Type of Test:**  
CU with Pore Pressures

**Sample Type:** undisturbed

**Description:** CU

**Specific Gravity=** 2.75

**Remarks:**

Figure \_\_\_\_\_

**Client:** TVA

**Project:** TVA Kingston - Proposed Gypsum Stack

**Location:** NB-77

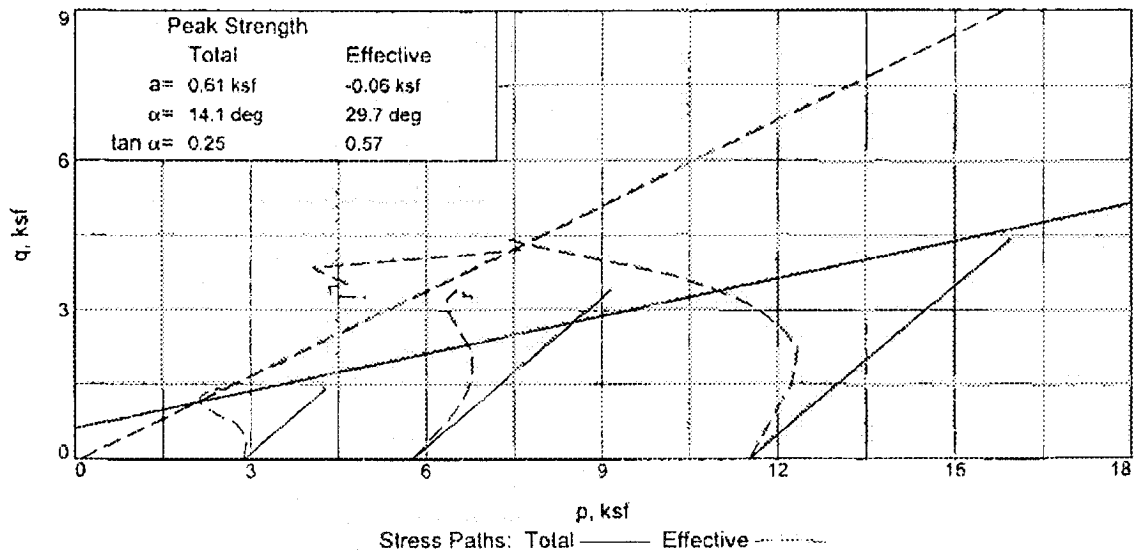
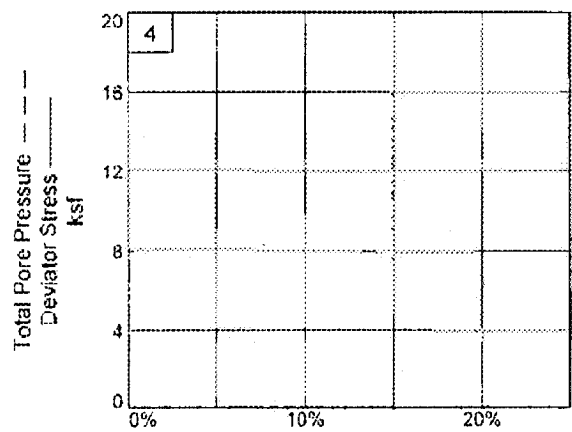
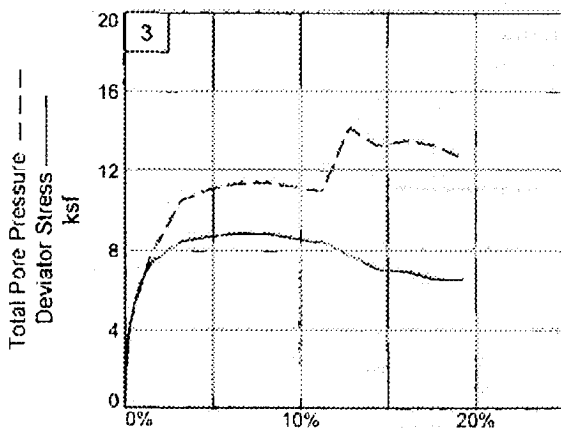
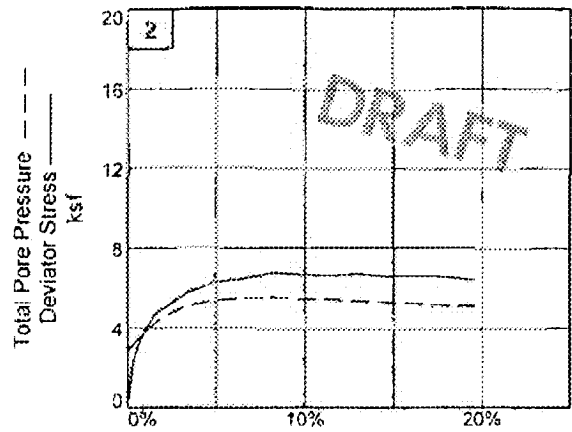
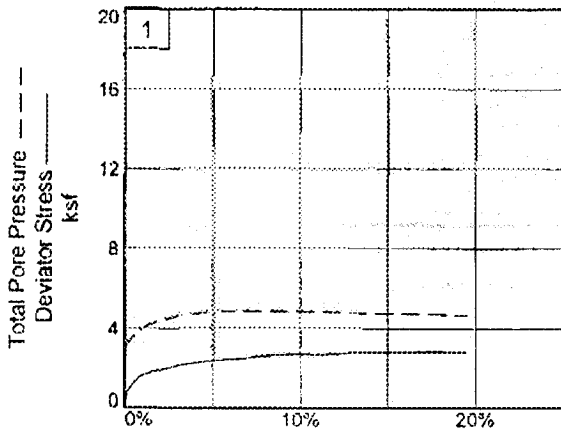
**Sample Number:** UD-4,5,and7      **Depth:** 15'-26'

**Proj. No.:** 3043051021      **Date:**

TRIAXIAL SHEAR TEST REPORT

**MACTEC, INC.**

**Tested By:** Alexander      **Checked By:** Hamlett



Client: TVA

Project: TVA Kingston - Proposed Gypsum Stack

Location: NB-77

Depth: 15'-26'

Sample Number: UD-4,5,and7

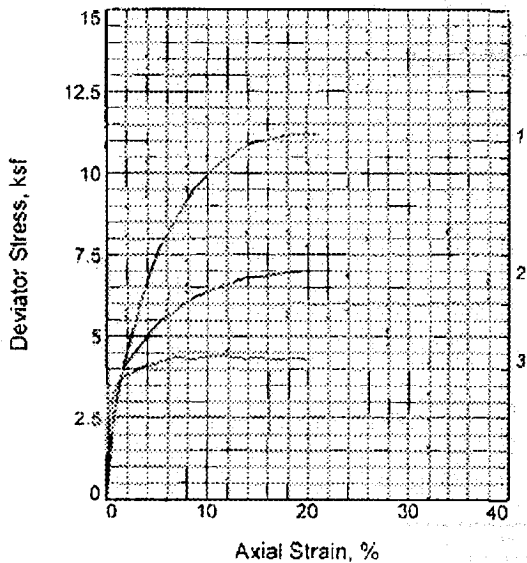
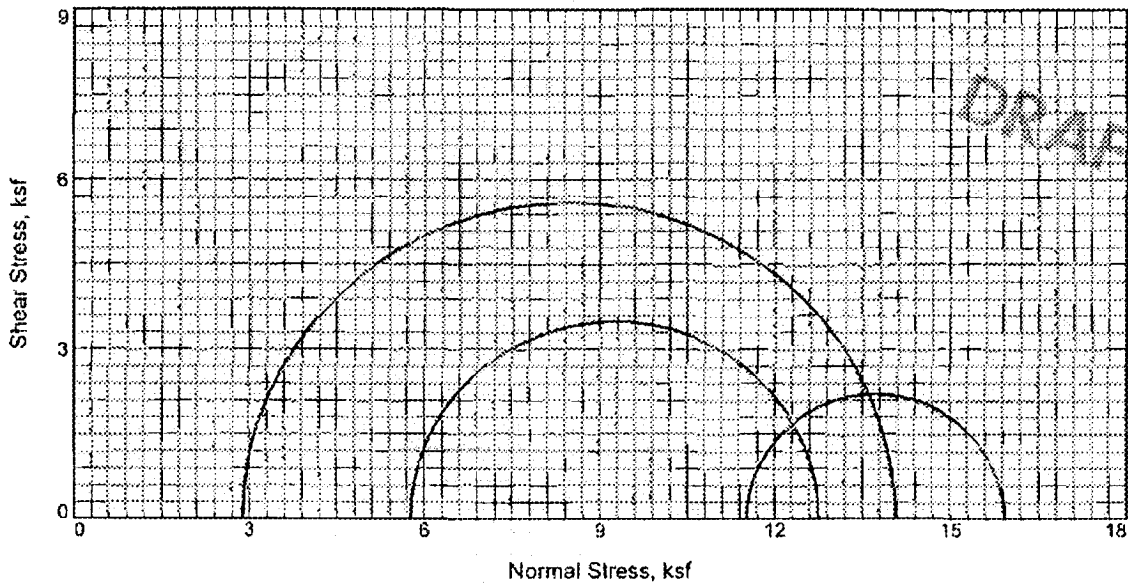
Project No.: 3043051021

Figure \_\_\_\_\_

**MACTEC, INC.**

Tested By: Alexander

Checked By: Hamlett



Sample No.		1	2	3
Initial	Water Content,	21.2	21.1	39.8
	Dry Density, pcf	92.4	96.8	81.0
	Saturation,	68.0	75.0	97.6
	Void Ratio	0.8581	0.7739	1.1202
	Diameter, in.	2.87	2.87	2.83
At Test	Height, in.	5.73	5.82	6.01
	Water Content,	31.2	28.1	40.7
	Dry Density, pcf	92.4	96.8	81.0
	Saturation,	100.0	100.0	100.0
	Void Ratio	0.8581	0.7739	1.1202
	Diameter, in.	2.87	2.87	2.83
	Height, in.	5.73	5.82	6.01
	Strain rate, in./min.	0.02	0.02	0.02
	Back Pressure, ksf	2.9	2.9	2.9
	Cell Pressure, ksf	5.8	8.6	14.4
	Fail. Stress, ksf	11.2	7.0	4.4
	Ult. Stress, ksf			
	$\sigma_1$ Failure, ksf	14.1	12.8	15.9
	$\sigma_3$ Failure, ksf	2.9	5.8	11.5

**Type of Test:**  
Unconsolidated Undrained  
**Sample Type:** undisturbed  
**Description:** UU

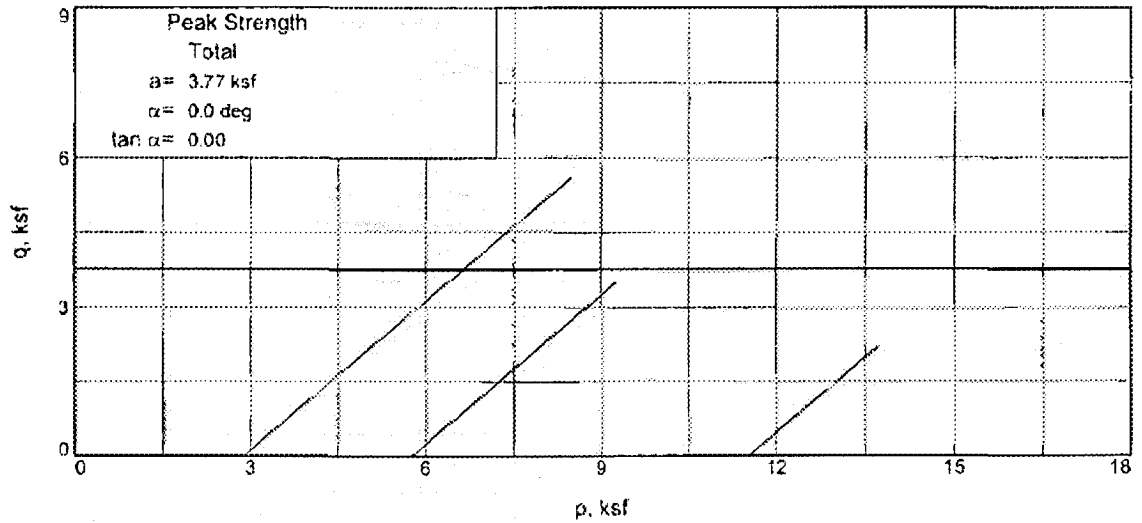
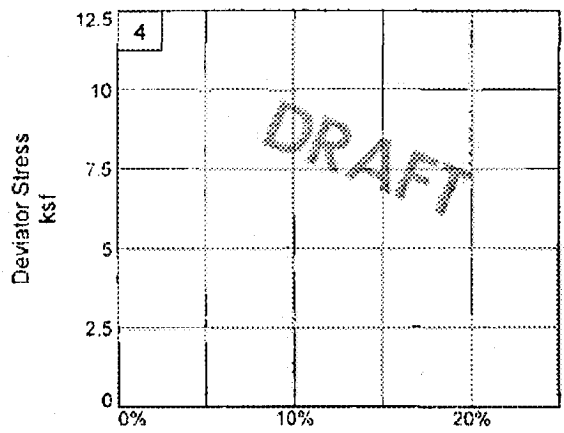
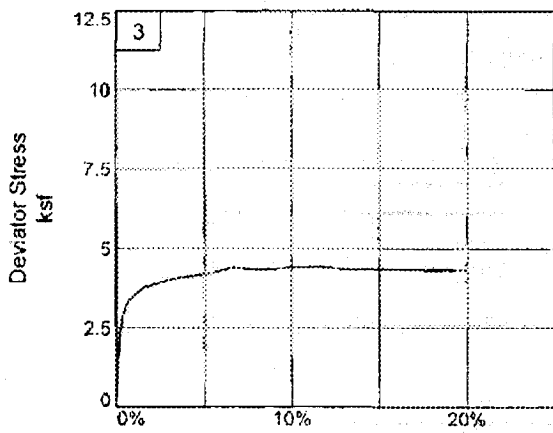
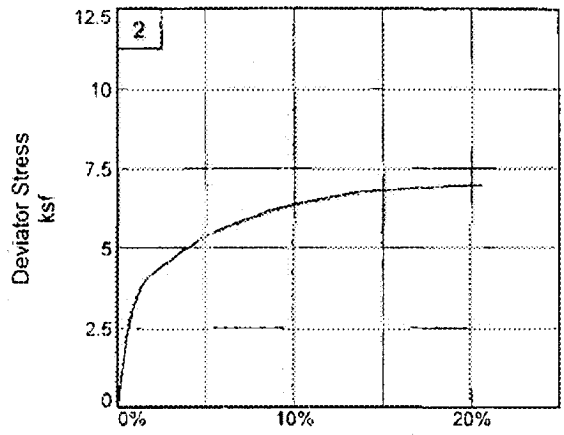
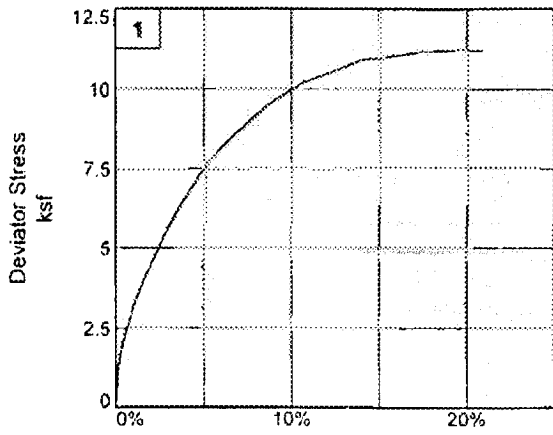
**Specific Gravity=** 2.75  
**Remarks:**

**Figure** \_\_\_\_\_

**Client:** TVA  
**Project:** TVA Kingston - Proposed Gypsum Stack  
**Location:** NB-77  
**Sample Number:** UD-4,5,and 7      **Depth:** 15'-26'  
**Proj. No.:** 3043051021      **Date:**

TRIAXIAL SHEAR TEST REPORT  
**MACTEC, INC.**

**Tested By:** Alexander      **Checked By:** Hamlett



Client: TVA

Project: TVA Kingston - Proposed Gypsum Stack

Location: NB-77

Depth: 15'-26'

Sample Number: UD-4,5,and 7

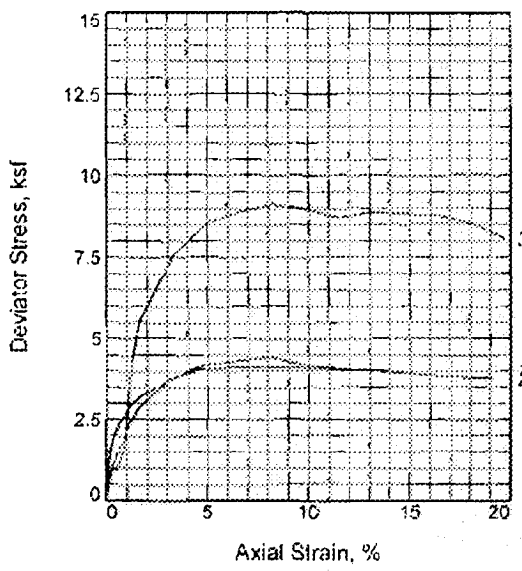
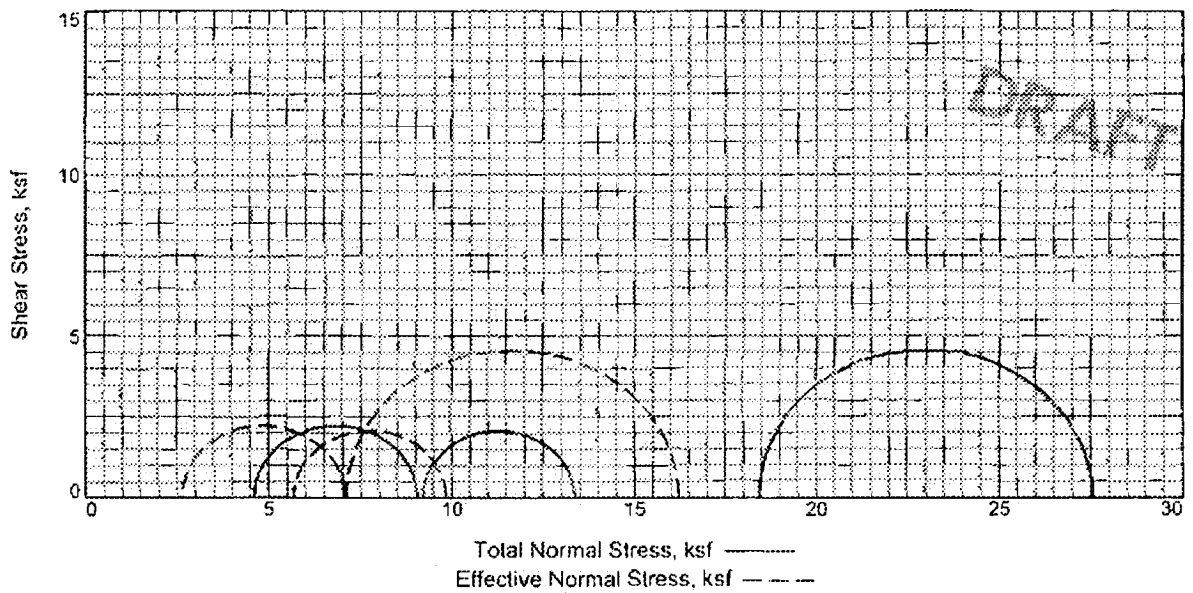
Project No.: 3043051021

Figure \_\_\_\_\_

MACTEC, INC.

Tested By: Alexander

Checked By: Hamlett



Sample No.	1	2	3	
Initial	Water Content,	24.5	29.9	26.5
	Dry Density, pcf	97.3	90.8	90.0
	Saturation,	88.3	92.2	80.4
	Void Ratio	0.7639	0.8907	0.9068
	Diameter, in.	2.85	2.84	2.89
Height, in.	5.98	6.09	5.88	
At Test	Water Content,	33.0	39.4	40.3
	Dry Density, pcf	90.0	82.4	81.5
	Saturation,	100.0	100.0	100.0
	Void Ratio	0.9080	1.0840	1.1077
	Diameter, in.	2.93	2.94	2.99
Height, in.	6.14	6.29	6.08	
Strain rate, in./min.	0.02	0.02	0.02	
Back Pressure, ksf	2.9	2.9	2.9	
Cell Pressure, ksf	7.5	12.1	21.3	
Fail. Stress, ksf	4.4	4.1	9.1	
Total Pore Pr., ksf	4.9	6.4	14.2	
Ult. Stress, ksf				
Total Pore Pr., ksf				
$\sigma_1$ Failure, ksf	7.1	9.8	16.2	
$\sigma_3$ Failure, ksf	2.6	5.7	7.1	

**Type of Test:**  
CU with Pore Pressures

**Sample Type:** undisturbed

**Description:**

**Specific Gravity=** 2.75

**Remarks:**

**Figure** \_\_\_\_\_

**Client:** TVA

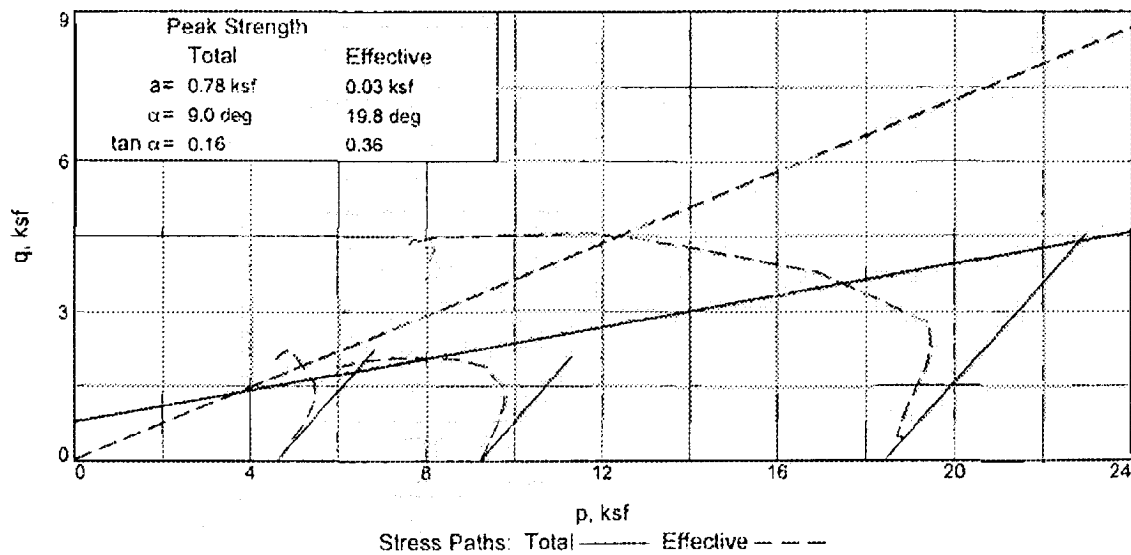
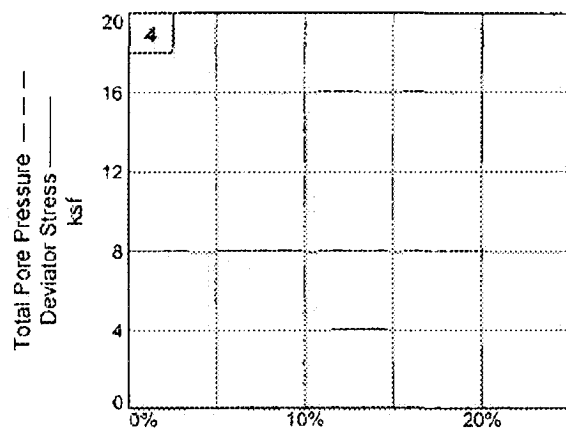
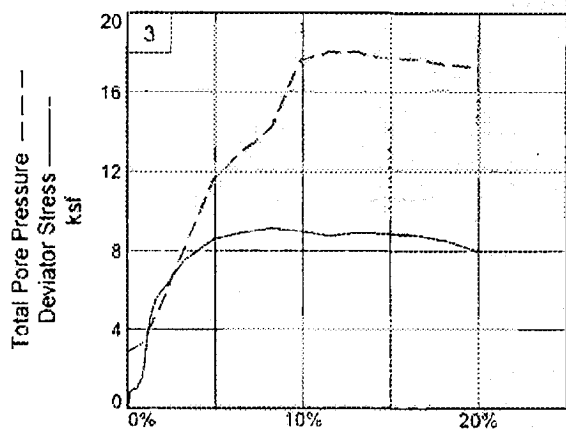
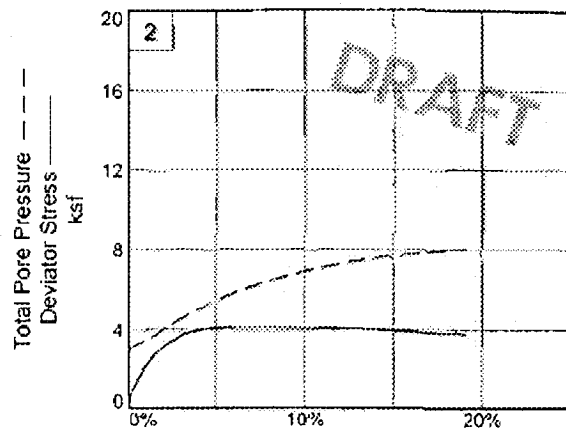
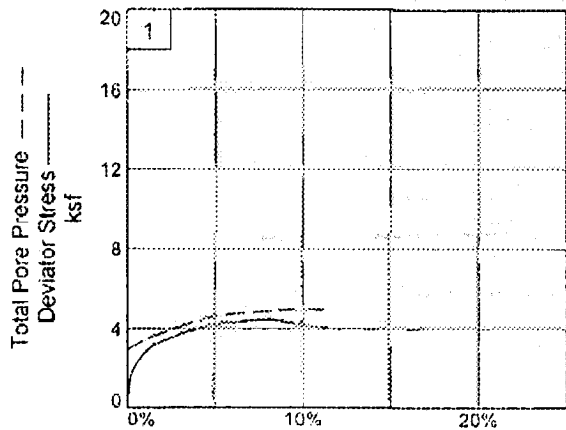
**Project:** TVA Kingston - Proposed Gypsum Stack

**Sample Number:** NB-21A      **Depth:** 30'-38'

**Proj. No.:** 3043051021      **Date:**

**TRIAXIAL SHEAR TEST REPORT**  
**MACTEC, INC.**

**Tested By:** Alexander \_\_\_\_\_ **Checked By:** Hamlett \_\_\_\_\_



Client: TVA

Project: TVA Kingston - Proposed Gypsum Stack

Sample Number: NB-21A

Project No.: 3043051021

Figure \_\_\_\_\_

MACTEC, INC.

Tested By: Alexander \_\_\_\_\_ Checked By: Hamlett \_\_\_\_\_