



Angelo State University

David L. Hirschfeld Department of Engineering

Triaxial Compression Test (Specimen Data)

Client: ROSCOE Inc

Project #: 3341

Project Title: Red Arroyo

Test performed by: W. Kitch

Test Date: 3/21/2020 - 4/12/2020

Checked by: _____

Boring No.: NA Sample/Specimen No.: 2

Sample Depth: NA

Soil Classification: SM Silty Sand, Lab Compacted

Type of test CU Confining Stress 10 lb/in²

Test no. 2

Before test

After test

	Specimen	Trimmings	Specimen
Tare no.	<u>—</u>	<u>578</u>	<u>Pan #2</u>
Mass of tare	<u>—</u> g	<u>12.98</u> g	<u>531.75</u> g
Mass of Soil+Can (wet)	<u>1134.36</u> g	<u>55.04</u> g	<u>1677.79</u> g
Mass of Soil+Can (dry)	<u>1010.40</u> g	<u>50.58</u> g	<u>1542.15</u> g
Mass water (W_w)	W_{w0} g		W_{wf} g
Mass dry soil (W_s)			
Moisture Content (w)	%	w_0 %	w_f %

Initial Specimen Conditions

Sample Diameter		Sample Height		Sample Area	
Top	<u>2.850</u> in	1	<u>4.827</u> in		<u>6.441</u> in ²
Middle	<u>2.851</u> in	2	<u>4.829</u> in		Sample Volume
Bottom	<u>2.890</u> in	3	<u>4.840</u> in		
Average	<u>2.864</u> in	Average	<u>4.831</u> in		
Sp gr of solids (G_s)					
Volume of solids (V_s)					
Piston height	<u>4.549</u> in				

Specimen Conditions After Consolidation

Piston height	<u>4.512</u> in		
Change in height (ΔH_0)	<u>0.037</u> in	Volume ($H_c \times A_c$)	
Height (H_c)	<u>4.794</u> in	Void Ratio [$(V_c - V_s)/V_s$]	
Volume change (ΔV_0)		Saturation	
Area (A_c)			

Specimen Conditions After Test

Change in height (ΔH)	<u>0.56</u> in	Volume ($H_f \times A_f$)	
Height (H_f)		Void Ratio [$(V_f - V_s)/V_s$]	
Volume change (ΔV_f)		Saturation	
Area (A_f)			

Triaxial Test Consolidation

Client: ROSCOE INC

Project #: 3341

Project Title: Red Arrow

Test performed by: W Kitch

Test Date: 3/21/2020 - 4/12/2020

Checked by: _____

Boring No. : NA Sample No. : 2

Sample Depth: NA

Soil Classification: SM Silty Sand Lab Compacted

Cell Pressure 60.0

Back Pressure 50.0

Confining Stress **40.0**

Initial Sample Height 6447

4831

Final Sample Height	4.794
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