

Boring No. N/A
 Sample No. _____
 Depth (m) _____
 Date _____
 Sheet No. _____



**CONSOLIDATED-UNDRAINED
 TRIAXIAL COMPRESSION TEST
 ASTM D4767**

Job No. _____
 Job Name _____
 Tested By SF & KC
 Calculated By SF
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STAGE1

SPECIMEN DIAMETER	<u>7.199</u> (cm)	CELL PRESSURE (CP)	<u>565.0</u> (kPa)
SPECIMEN HEIGHT	<u>13.376</u> (cm)	BACK PRESSURE (BP)	<u>165.0</u> (kPa)
SPECIMEN AREA	<u>40.678</u> (sq.cm)	EFFECTIVE PRESSURE (EP)	<u>400.0</u> (kPa)
SPECIMEN VOLUME	<u>544.092</u> (cu.cm)		

Failure Criteria: Max. Deviator Stress

Axial Failure Strain 1.52 (%)

($\sigma_1 - \sigma_3$)f	<u>144.74</u> (kPa)	(σ_3)f	<u>400.00</u> (kPa)	(σ_1)f	<u>544.74</u> (kPa)
(Δu)f	<u>165.47</u> (kPa)	(σ_3')f	<u>234.53</u> (kPa)	(σ_1')f	<u>379.27</u> (kPa)

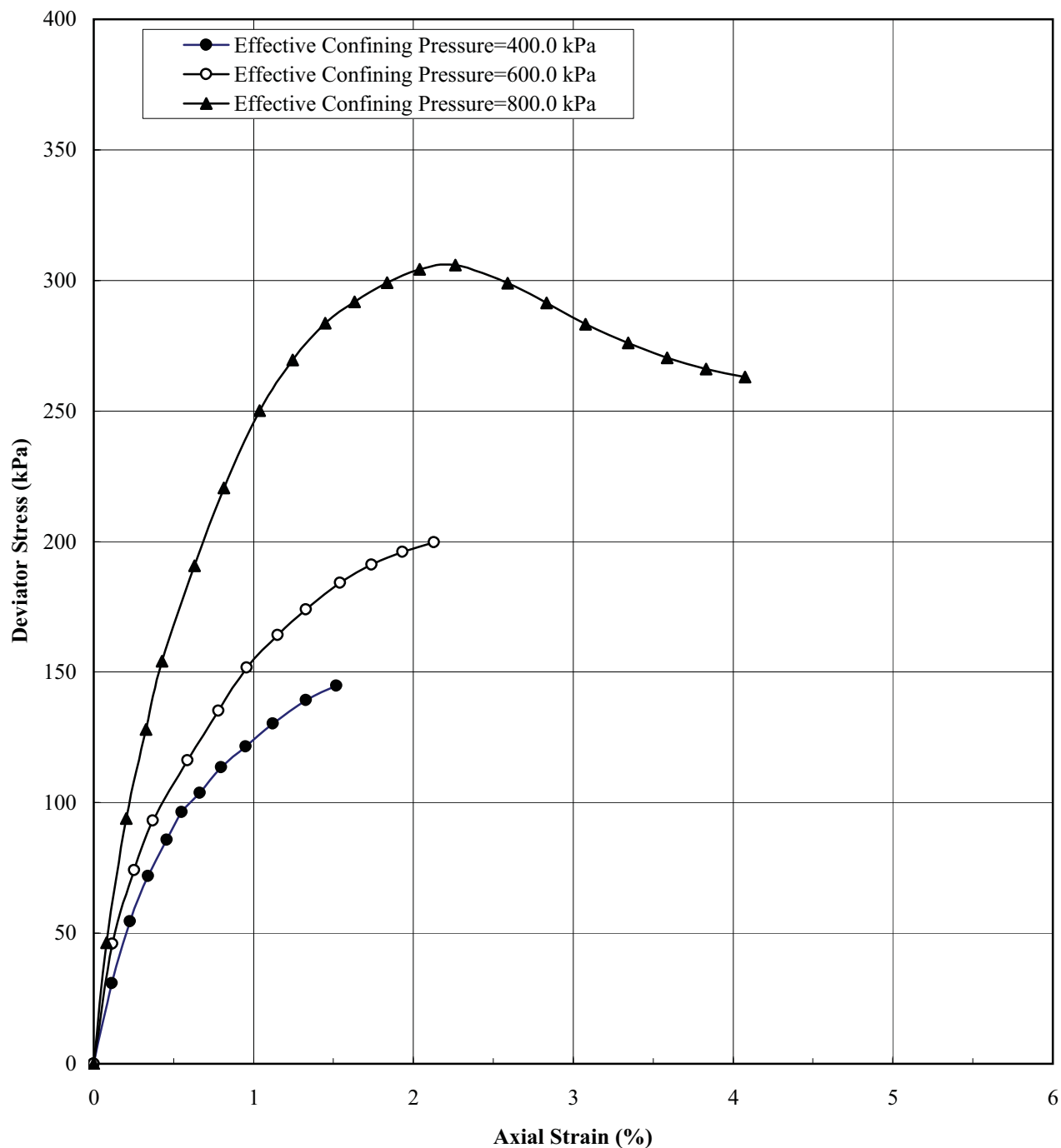
VERT. DISPL. (cm)	LOAD CELL (KN)	Δu (kPa)	ϵ_1 (%)	$\sigma_1 - \sigma_3$ (kPa)	σ_1' (kPa)	σ_3' (kPa)	p (kPa)	p' (kPa)	q (kPa)	σ_1' / σ_3'
0.00	0.00	0.00	0.00	0.00	400.00	400.00	400.00	400.00	0.00	1
0.02	0.13	15.86	0.11	30.80	414.94	384.14	415.40	399.54	15.40	1.08
0.03	0.22	35.85	0.23	54.55	418.70	364.15	427.28	391.42	27.28	1.15
0.05	0.29	55.16	0.34	71.93	416.77	344.84	435.96	380.80	35.96	1.21
0.06	0.35	72.39	0.46	85.67	413.27	327.61	442.83	370.44	42.83	1.26
0.07	0.39	86.87	0.55	96.35	409.48	313.13	448.18	361.30	48.18	1.31
0.09	0.42	102.04	0.66	103.63	401.59	297.96	451.81	349.77	51.81	1.35
0.11	0.47	117.21	0.80	113.58	396.37	282.79	456.79	339.58	56.79	1.40
0.13	0.50	128.24	0.95	121.42	393.18	271.76	460.71	332.47	60.71	1.45
0.15	0.54	144.10	1.12	130.29	386.19	255.90	465.15	321.05	65.15	1.51
0.18	0.57	155.82	1.33	139.19	383.37	244.18	469.59	313.77	69.59	1.57
0.20	0.60	165.47	1.52	144.74	379.26	234.53	472.37	306.89	72.37	1.62

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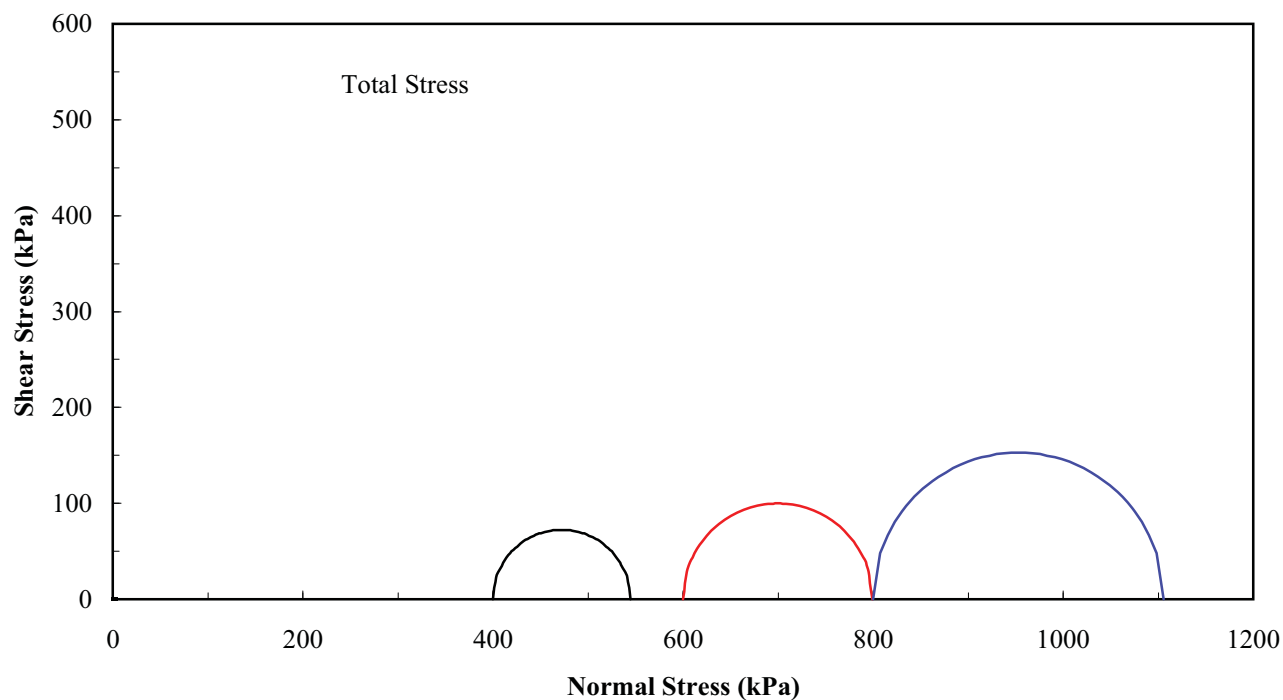
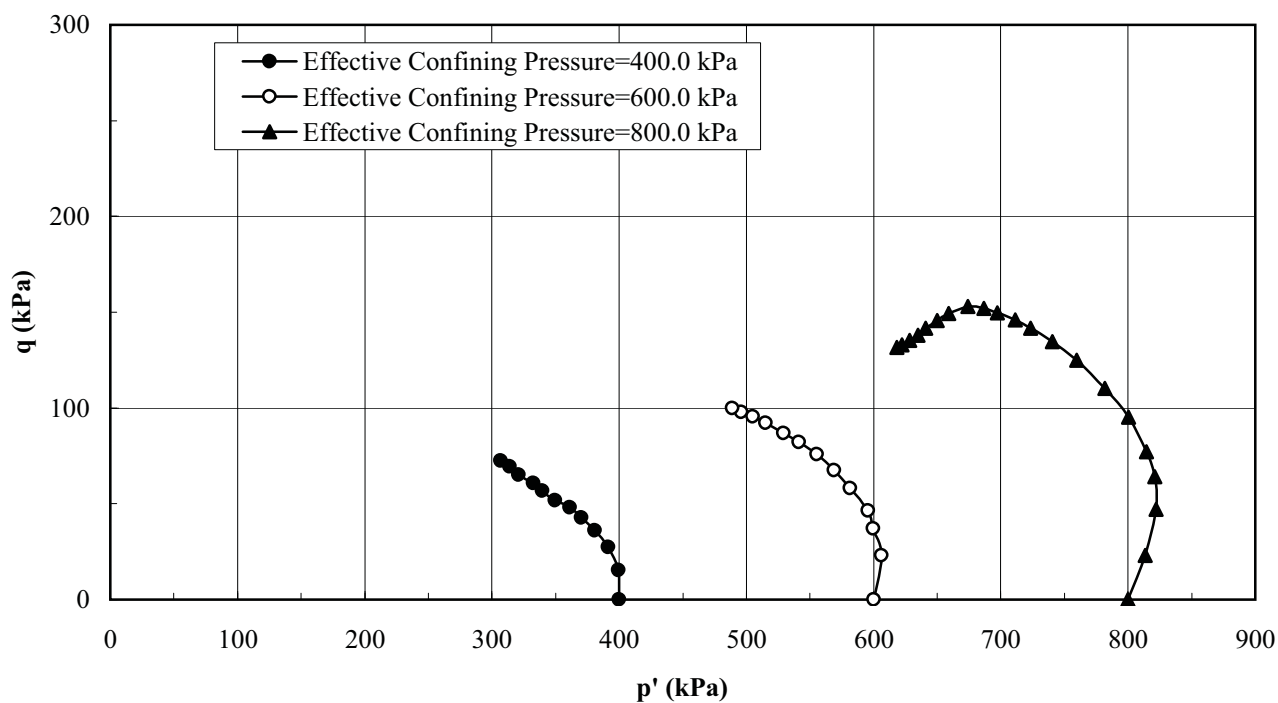
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CONSULTANTS LTD.
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p-q&Mohr Chart 2

