BLOCK SAMPLE PREPARATION PROCEDURE

Undisturbed block soil samples were prepared following the procedure described in Fugro Test Procedure No. 300. Undisturbed samples (2.5-inches in diameter x 6.0-inches in length) were trimmed from undisturbed block samples (9 ½-inch diameter by 12-inch high). Three trimming methods were employed: 1) cut and shape, 2) capillary tension, and 3) freezing.

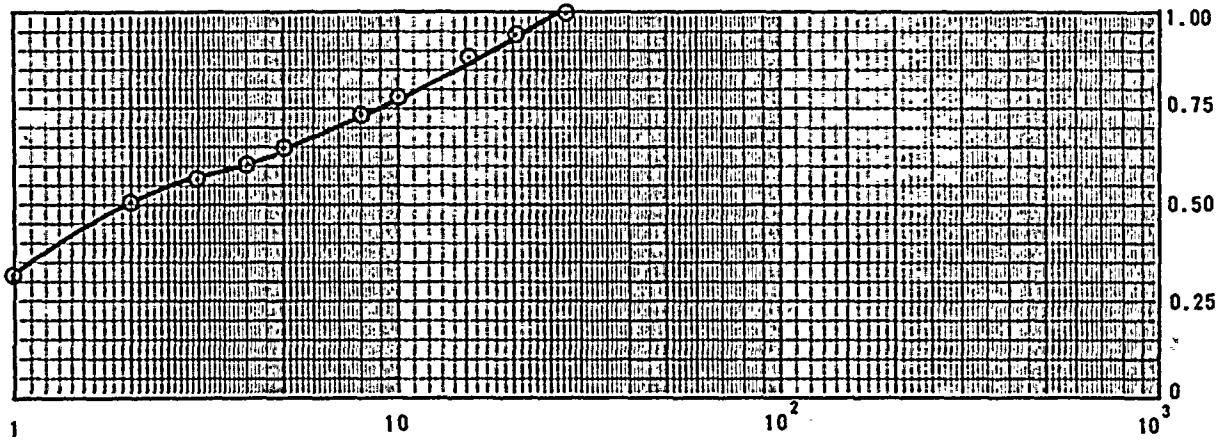
The cut and shape trimming method consisted of trimming the block sample according to the method described by Lambe (1951) and was used on samples exhibiting cementation or cohesion.

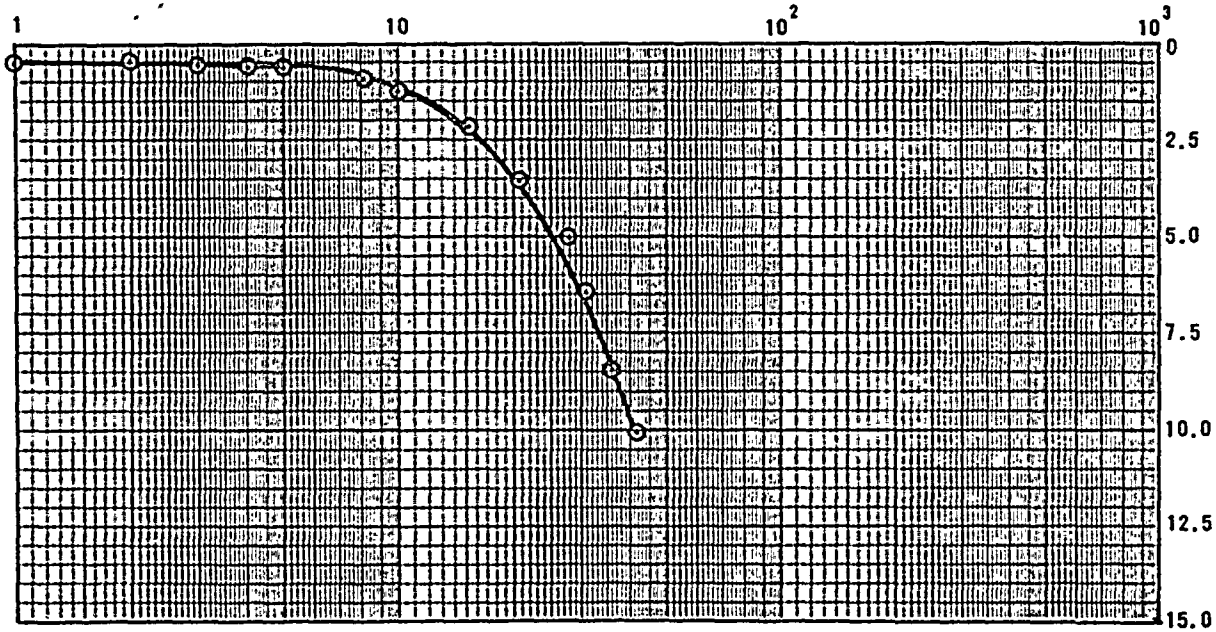
Trimming by the capillary tension method consisted of flooding the block sample with water and then allowing the sample to drain. The remaining water present in the soil matrix tended to hold the material together by capillary action. Trimming of the block sample was accomplished by employing a lucite cylinder (2.5-inches inside diameter x 6.0-inches in length). The lucite cylinder was placed directly on the undisturbed block material. Material was then removed from around the base of the cylinder as the cylinder was lowered to add support to the soil column being produced. The sample was subsequently removed from the tube upon completion of the sampling operation. The capillary tension method of sample trimming wasused on fine, cohesionless material.

Trimming by the freezing method consisted of placing the undisturbed block sample in a liquid nitrogen bath (-320 F) until frozen. The sample was then trimmed by the method described by Lambe (1951).

CYCLIC TRIAXIAL LIQUEFACTION TEST RESULTS

BORING NO.	SAMPLE NO.	SAMPLE DEPTH (ft)	σ_o' (PSI)	$\sigma_{dc}/2\sigma_o'$	
U2-SP-20	8	40-42.5'	35	0.26	



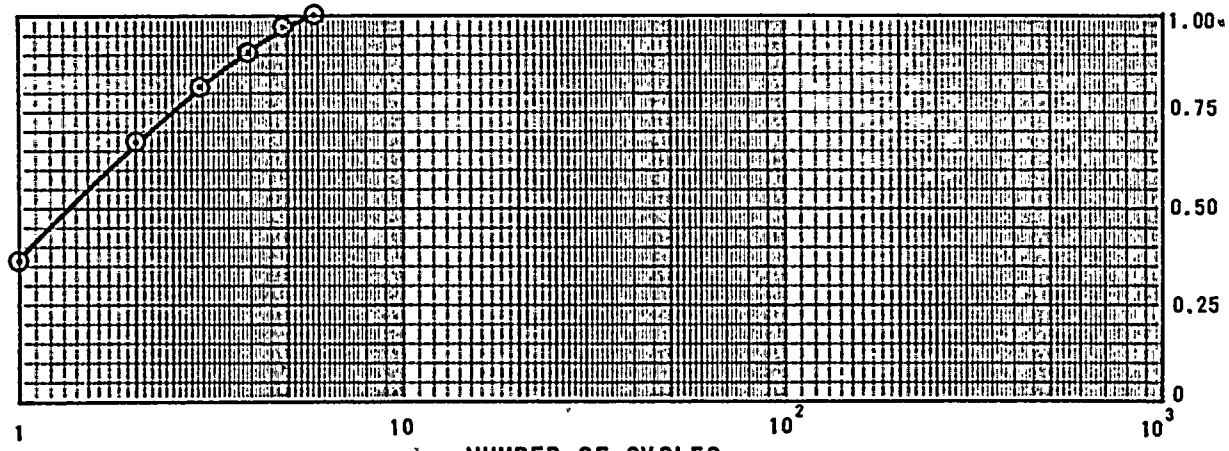


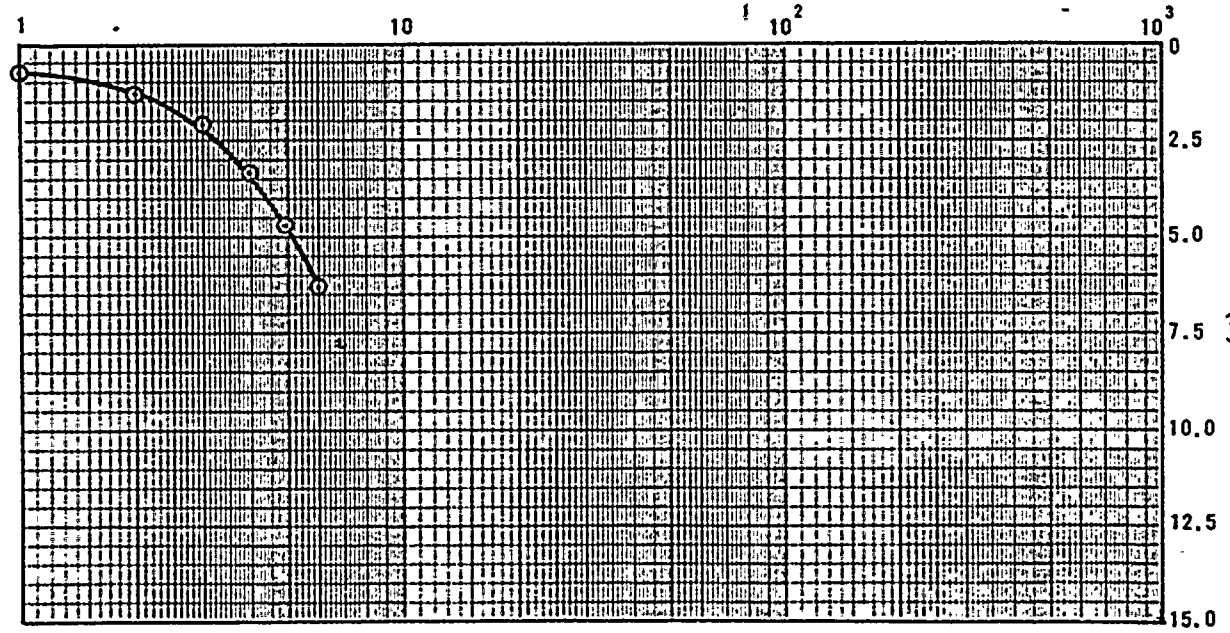
LABORATORY DYNAMIC TEST DATA

2T.21.141

CYCLIC TRIAXIAL LIQUEFACTION TEST RESULTS

BORING NO.	SAMPLE NO.	SAMPLE DEPTH (ft)	σ_o' (PSI)	$\sigma_{dc}/2\sigma_o'$	
U3-B3	30	71-74'	54.0	0.25	



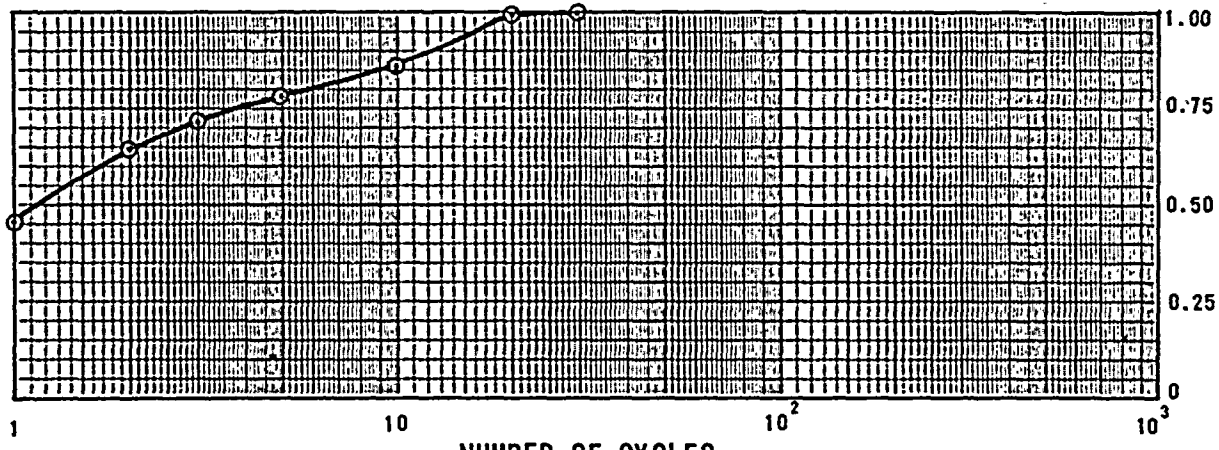


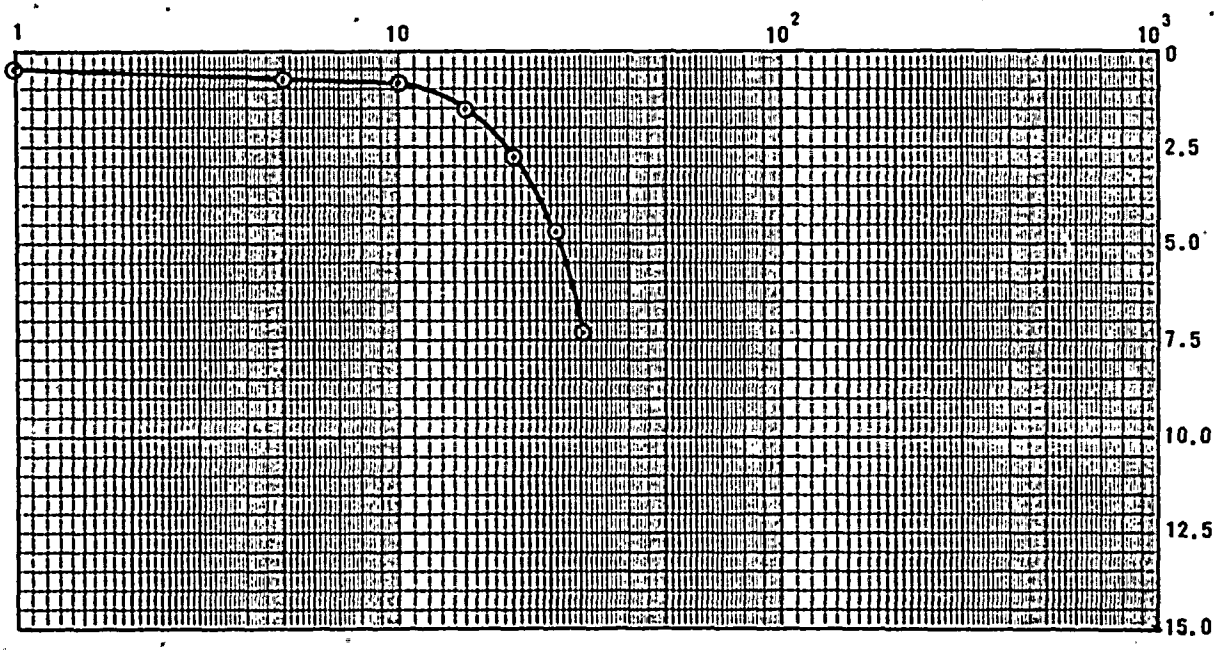
LABORATORY DYNAMIC TEST DATA

2T.21.142

CYCLIC TRIAXIAL LIQUEFACTION TEST RESULTS

BORING NO.	SAMPLE NO.	SAMPLE DEPTH (ft)	σ_o' (PSI)	$\sigma_{dc}/2\sigma_o'$	
U3-B3	30	71-74'	54.0	0.206	



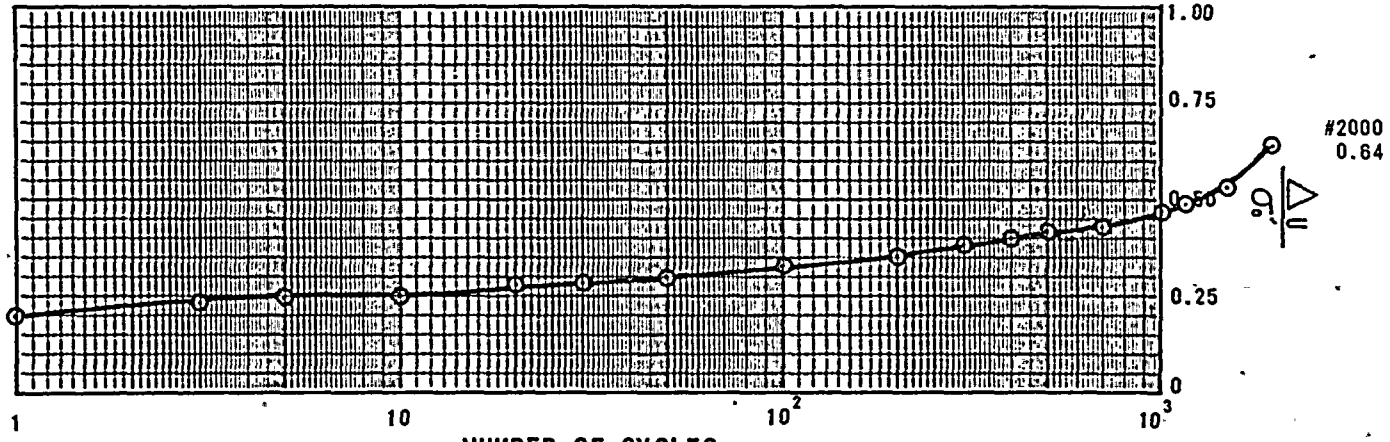


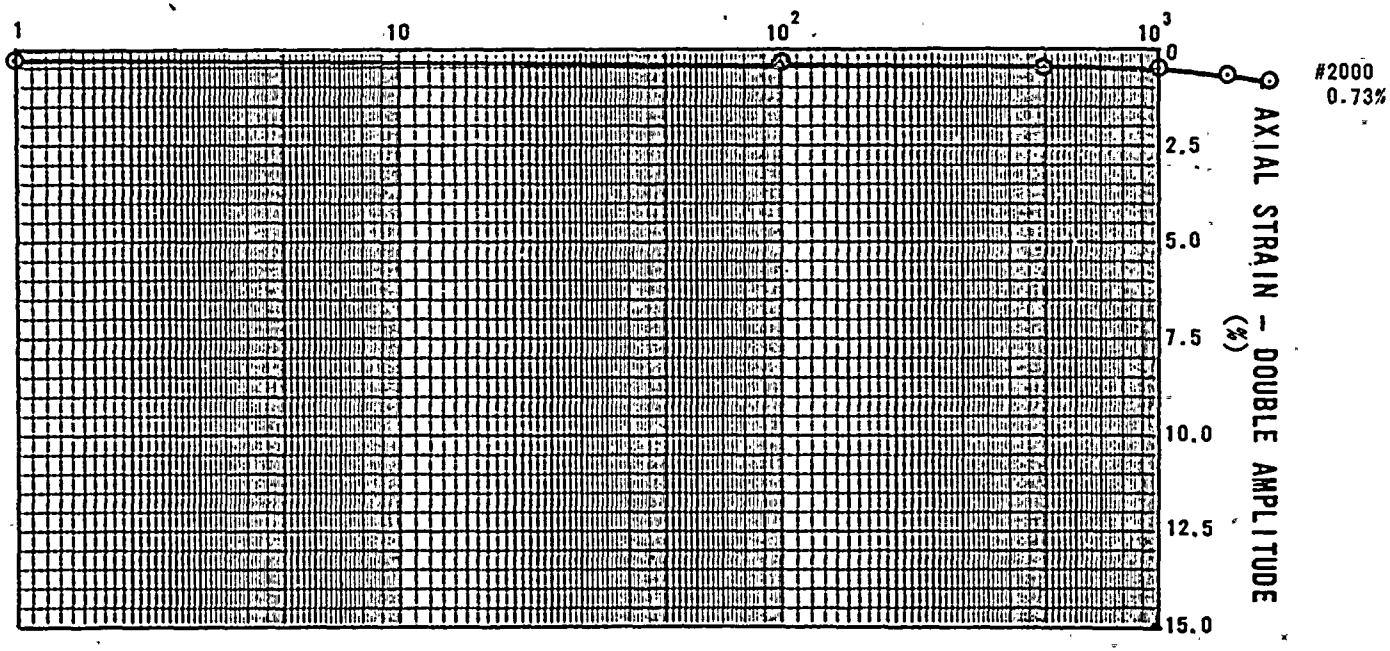
LABORATORY DYNAMIC TEST DATA

2T.21.143

CYCLIC TRIAXIAL LIQUEFACTION TEST RESULTS

BORING NO.	SAMPLE NO.	SAMPLE DEPTH (ft)	σ_o' (PSI)	$\sigma_{dc}/2\sigma_o'$	
U2-LB-1	1A	36-37'	31	0.48	



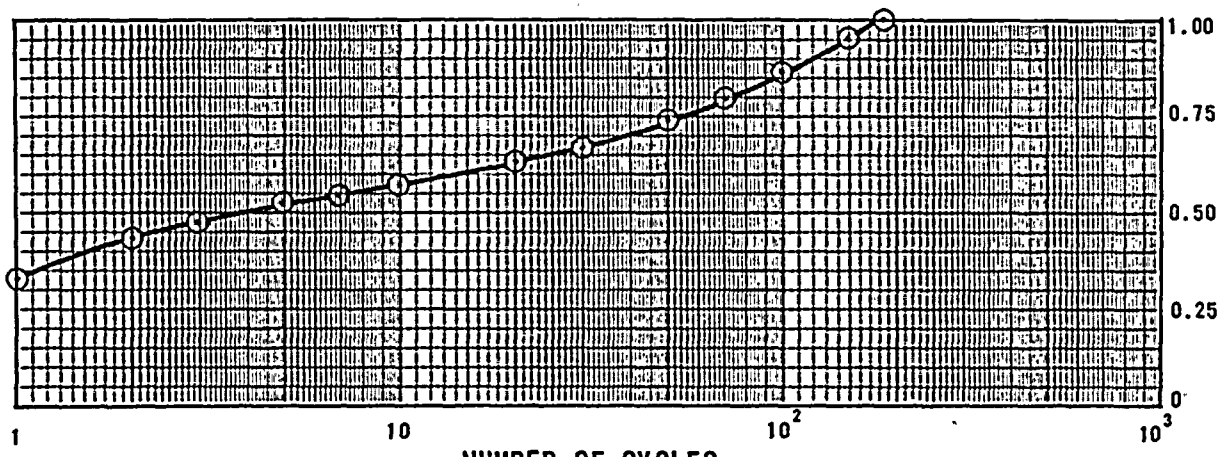


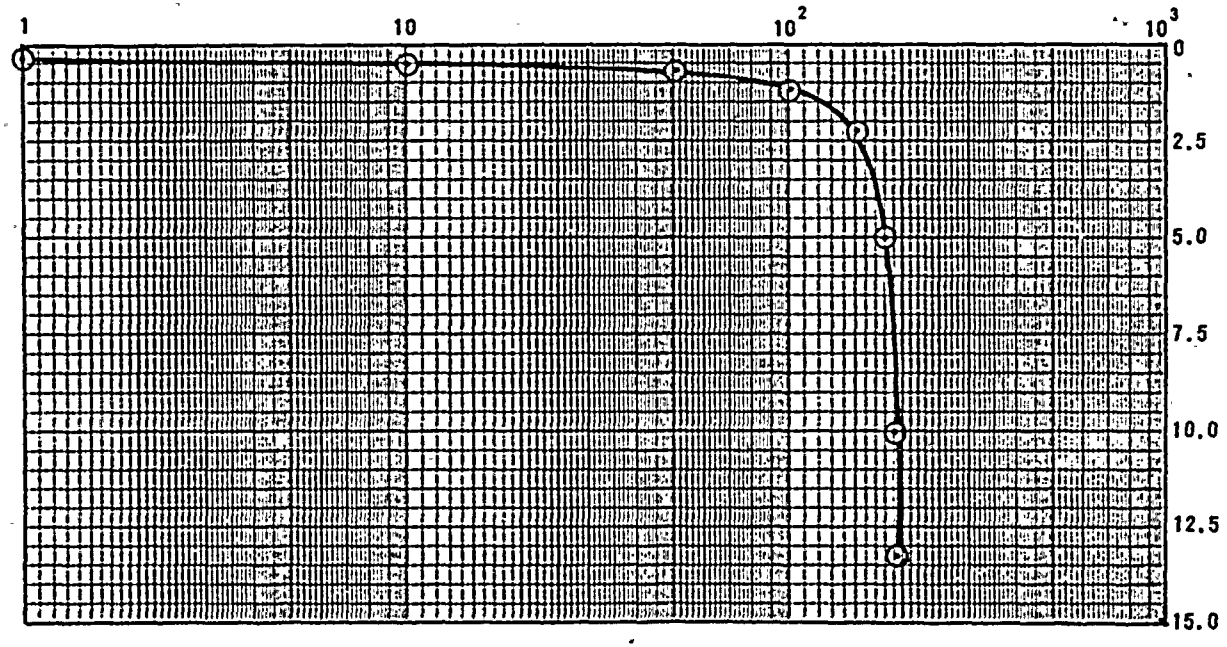
LABORATORY DYNAMIC TEST DATA

2T.21.144

CYCLIC TRIAXIAL LIQUEFACTION TEST RESULTS

BORING NO.	SAMPLE NO.	SAMPLE DEPTH (ft)	σ_o' (PSI)	$\sigma_{dc}/2\sigma_o'$	
U2-LB-1	1B	36-37	31	0.40	



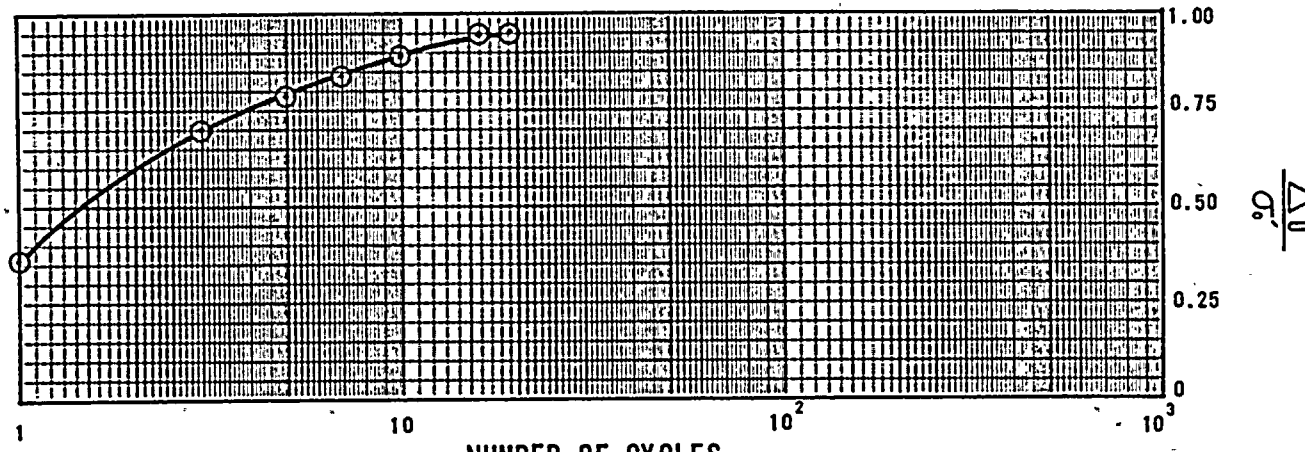


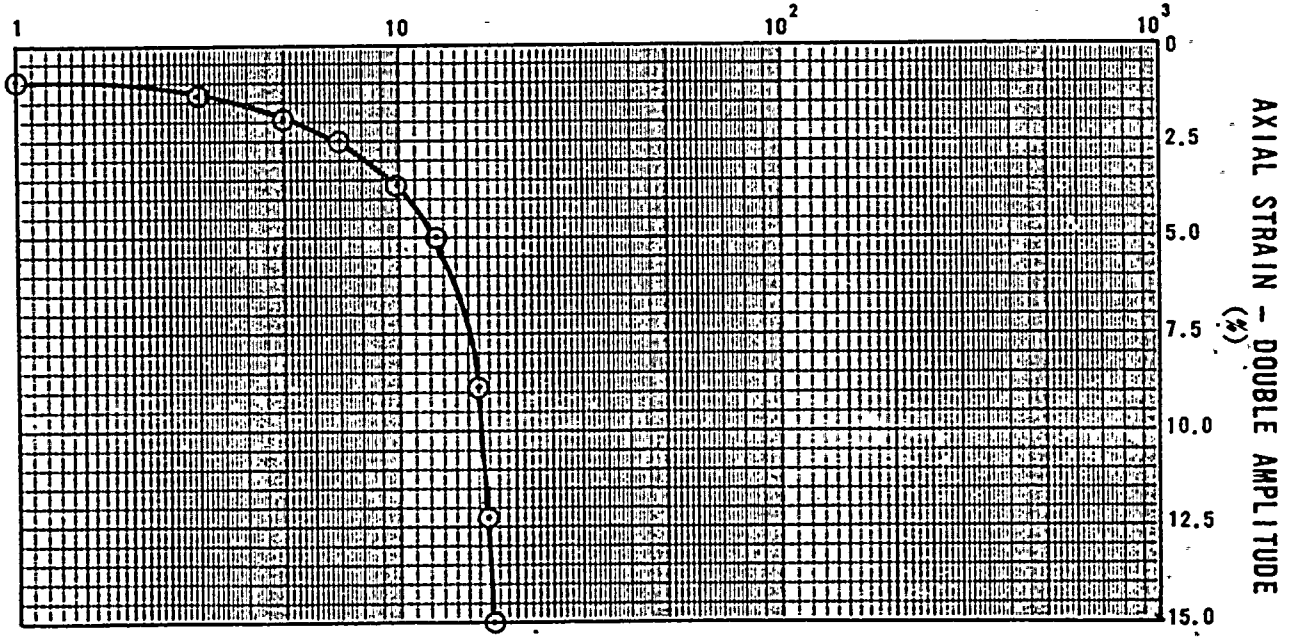
LABORATORY DYNAMIC TEST DATA

2T.21.145

CYCLIC TRIAXIAL LIQUEFACTION TEST RESULTS

BORING NO.	SAMPLE NO.	SAMPLE DEPTH (ft)	σ_o' (PSI)	$\sigma_{dc}/2\sigma_o'$	
U2-LB-1	1C	35-36	31	0.48	



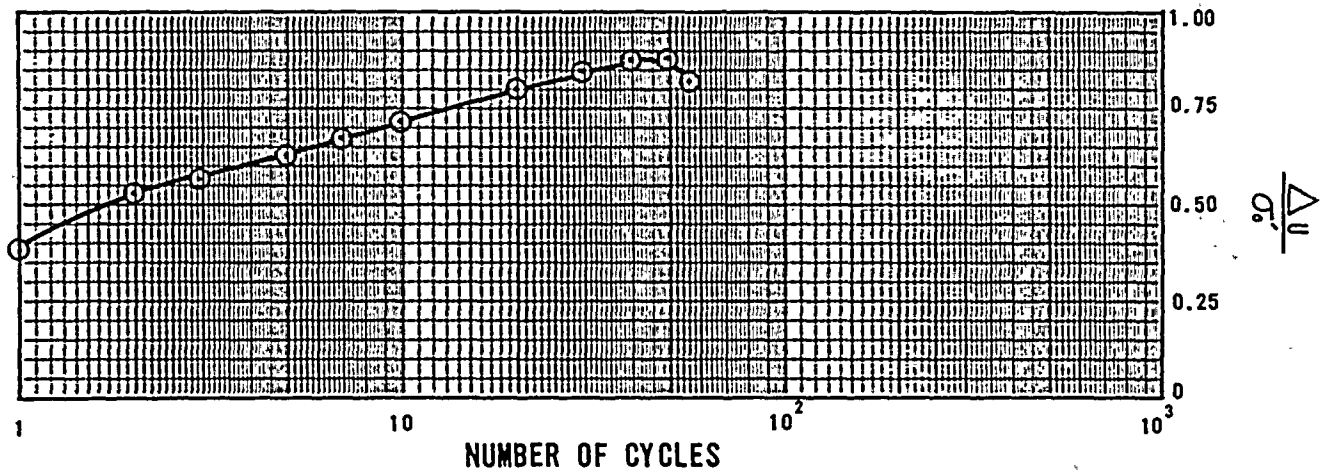


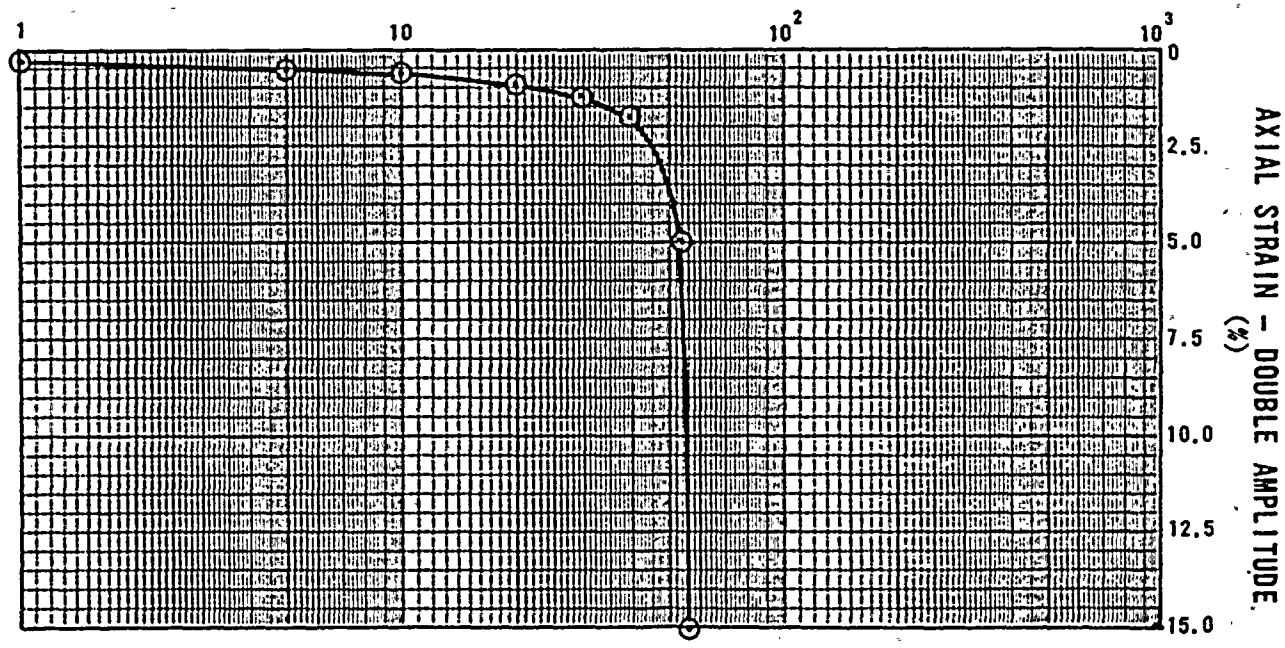
LABORATORY DYNAMIC TEST DATA

2T.21.146

CYCLIC TRIAXIAL LIQUEFACTION TEST RESULTS

BORING NO.	SAMPLE NO.	SAMPLE DEPTH (ft)	σ_c' (PSI)	$\sigma_{dc}/2\sigma_c'$	
U2-LB-1	1D	35-36	31	0.45	



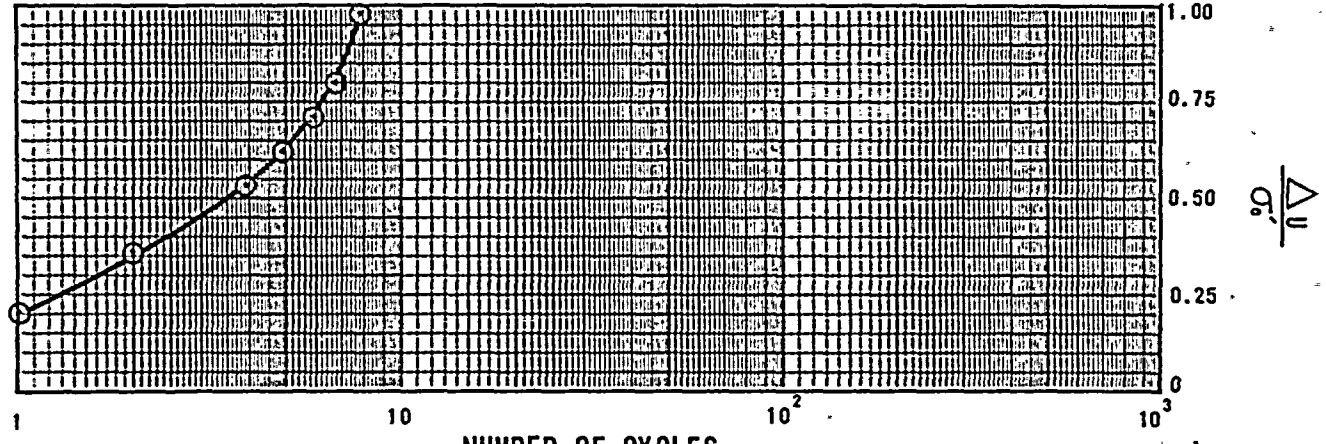


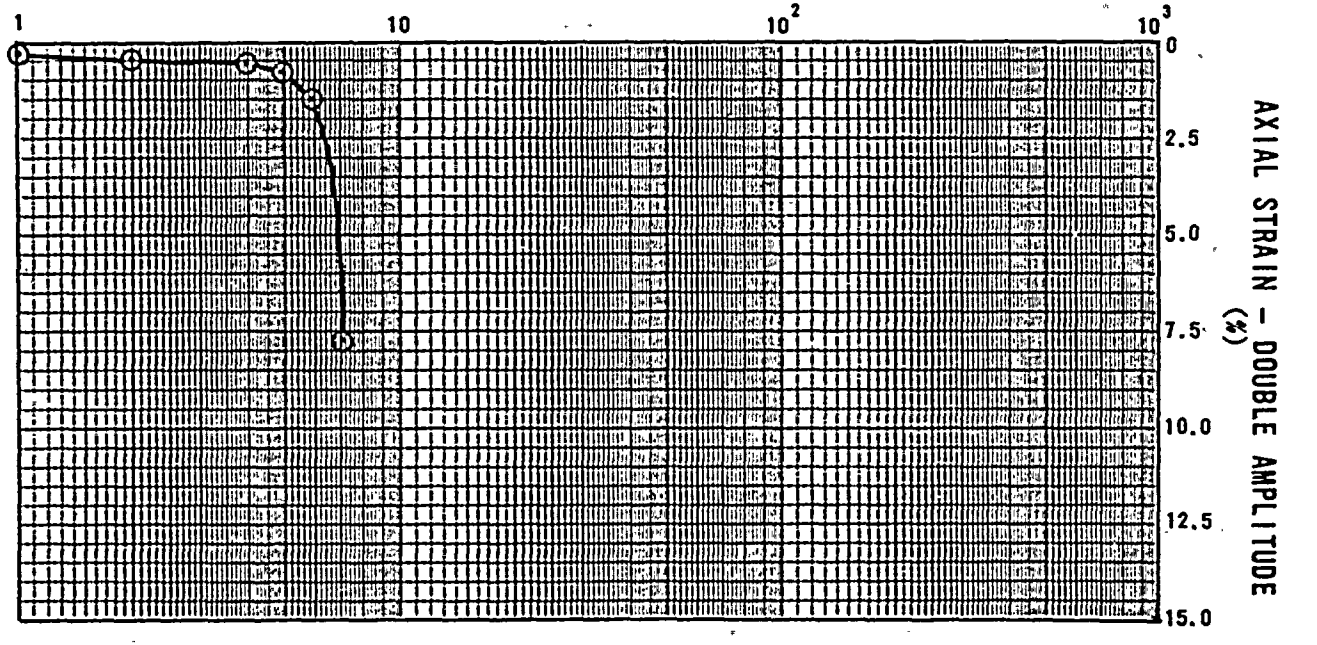
LABORATORY DYNAMIC TEST DATA

2T.21.147

CYCLIC TRIAXIAL LIQUEFACTION TEST RESULTS

BORING NO.	SAMPLE NO.	SAMPLE DEPTH (ft)	σ_o' (PSI)	$\sigma_{dc}/2\sigma_o'$	
U2-LB-1	2A	32-33	28	0.23	



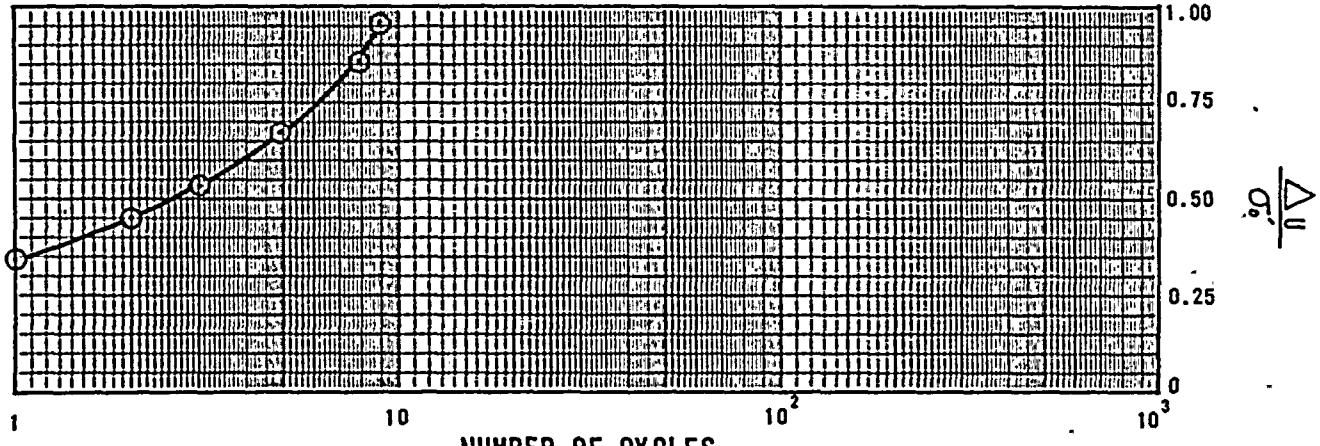


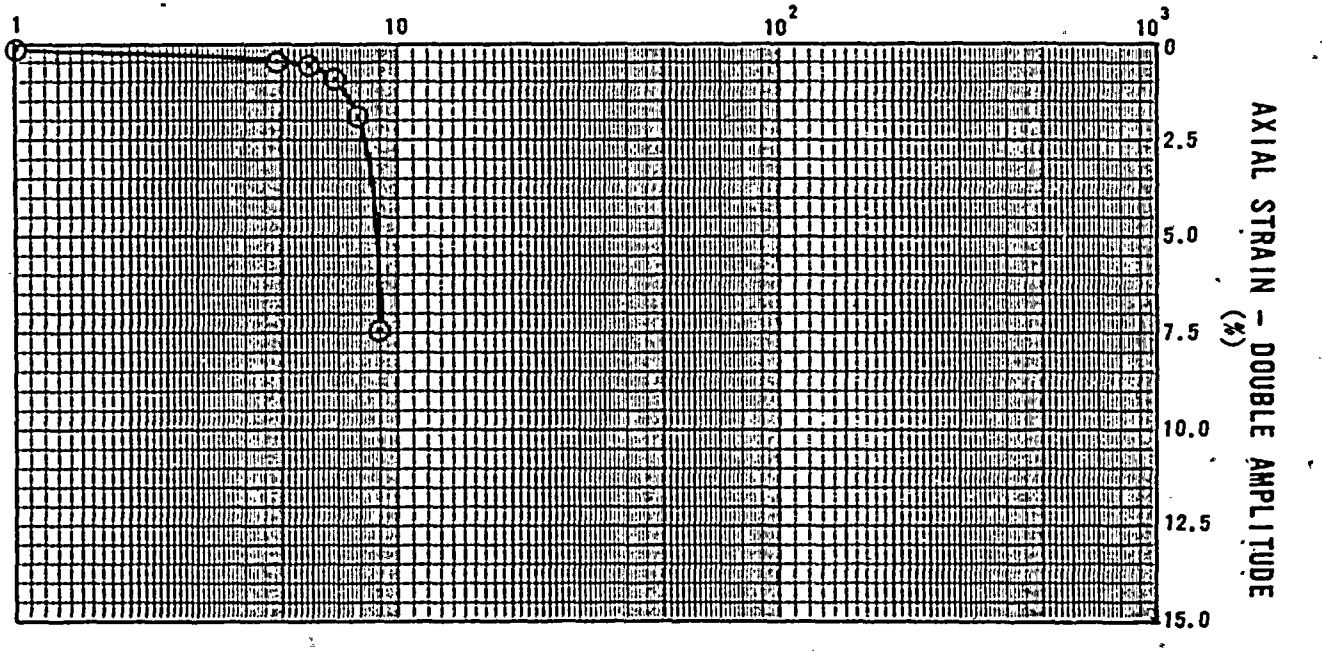
LABORATORY DYNAMIC TEST DATA

2T.21.148

CYCLIC TRIAXIAL LIQUEFACTION TEST RESULTS

BORING NO.	SAMPLE NO.	SAMPLE DEPTH (ft)	σ_o' (PSI)	$\sigma_{dc}/2\sigma_o'$	
U2-LB-1	2B	32-33	28.0	0.175	



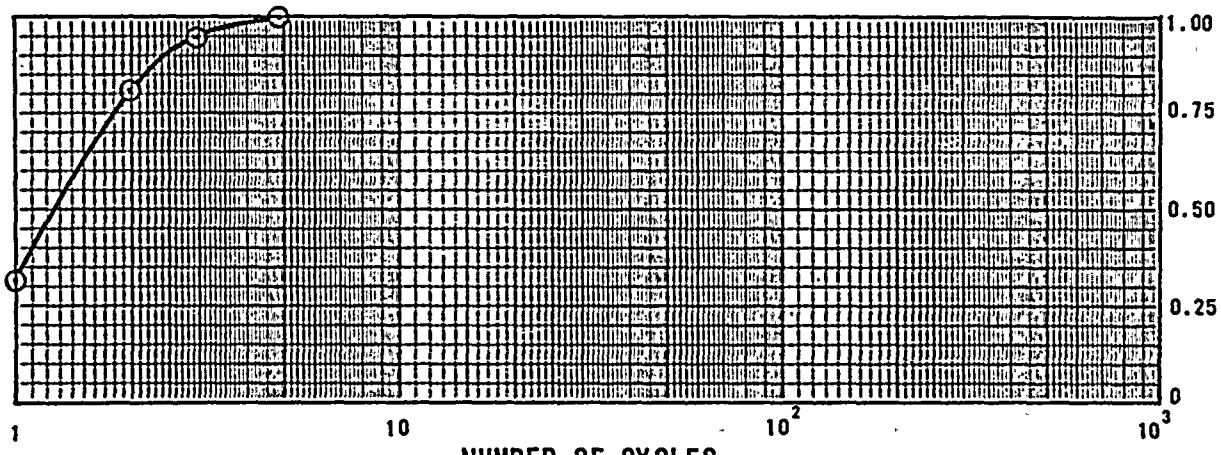


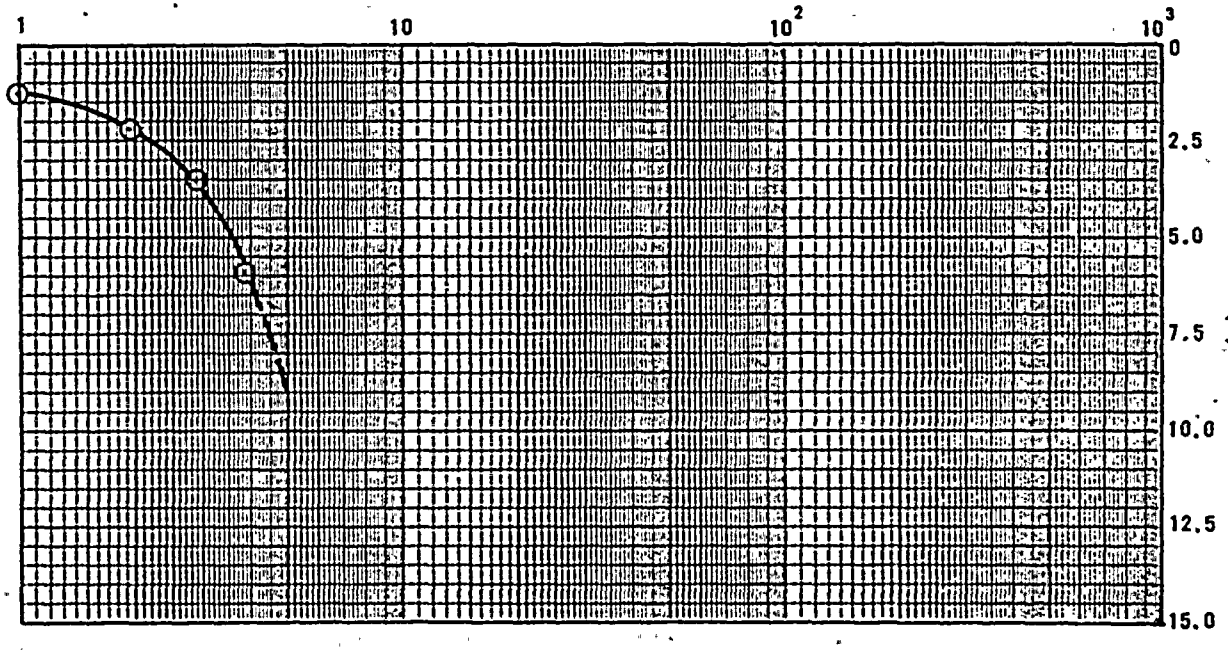
LABORATORY DYNAMIC TEST DATA

2T.21.149

CYCLIC TRIAXIAL LIQUEFACTION TEST RESULTS

BORING NO.	SAMPLE NO.	SAMPLE DEPTH (ft)	σ_o' (PSI)	$\sigma_{dc}/2\sigma_o'$	
U2-LB-1	3A	32-33	28	0.3	



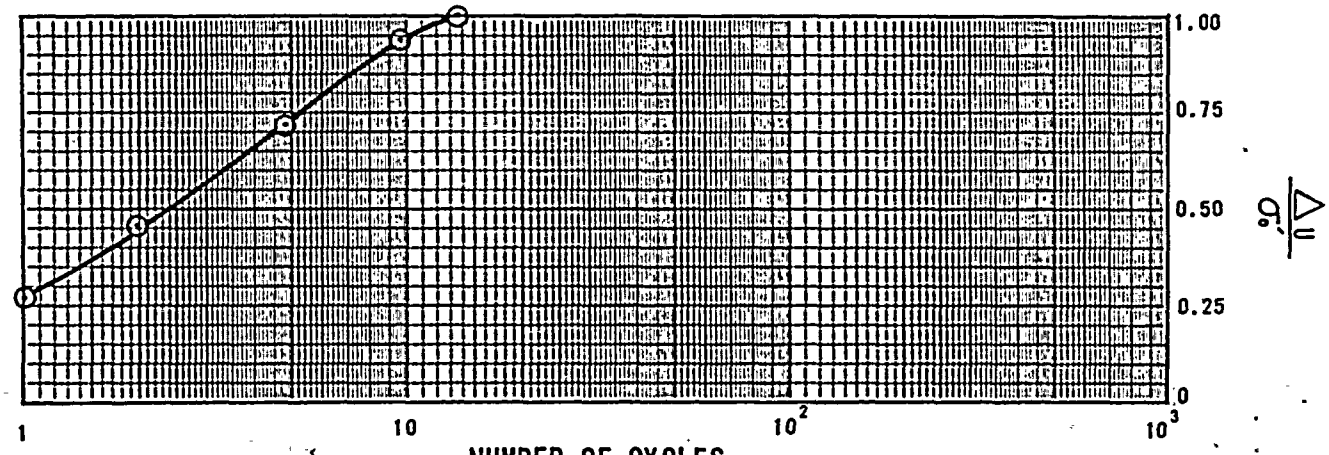


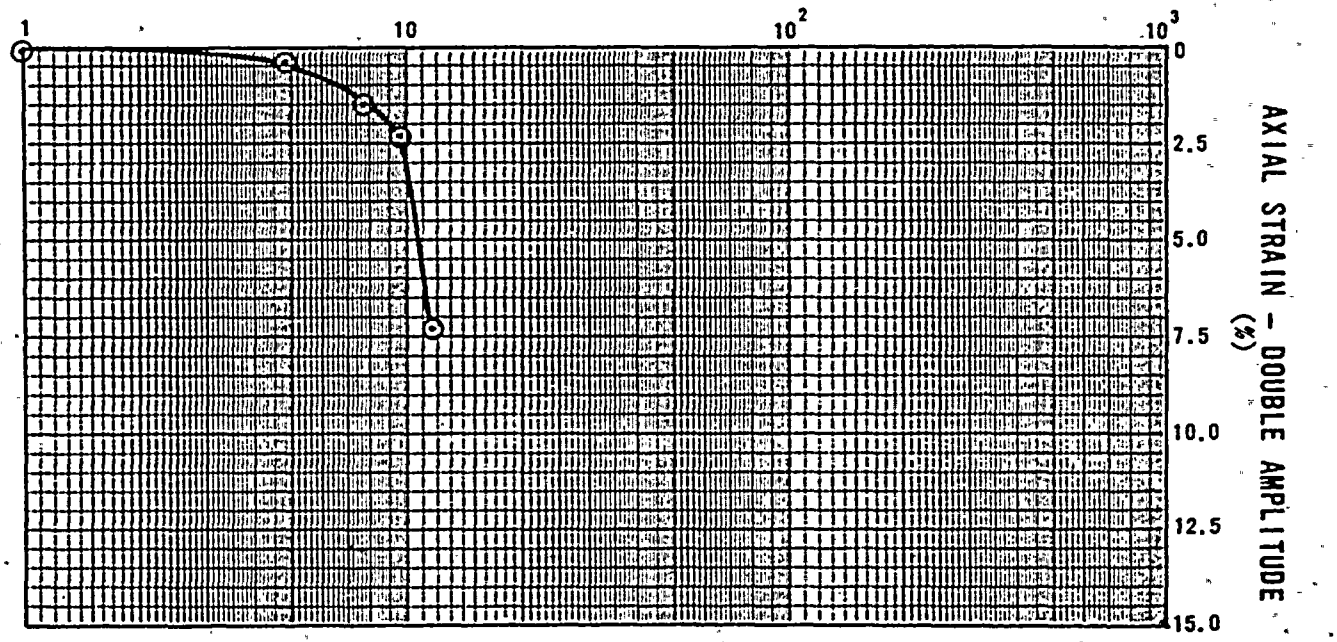
LABORATORY DYNAMIC TEST DATA

2T.21.150

CYCLIC TRIAXIAL LIQUEFACTION TEST RESULTS

BORING NO.	SAMPLE NO.	SAMPLE DEPTH (ft)	σ_o' (PSI)	$\sigma_{dc}/2\sigma_o'$	
U2-LB-1	3C	32-33	28	0.23	



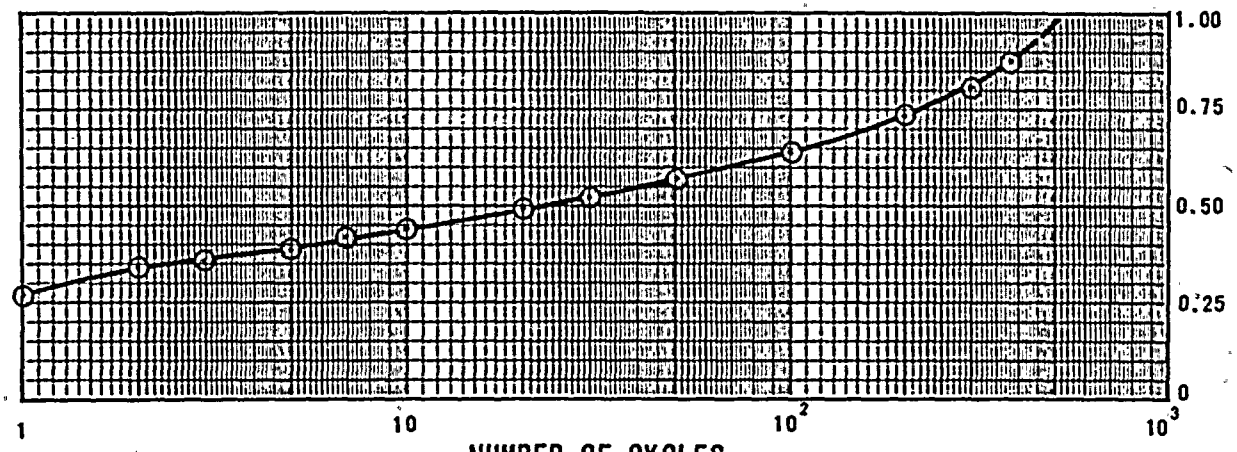


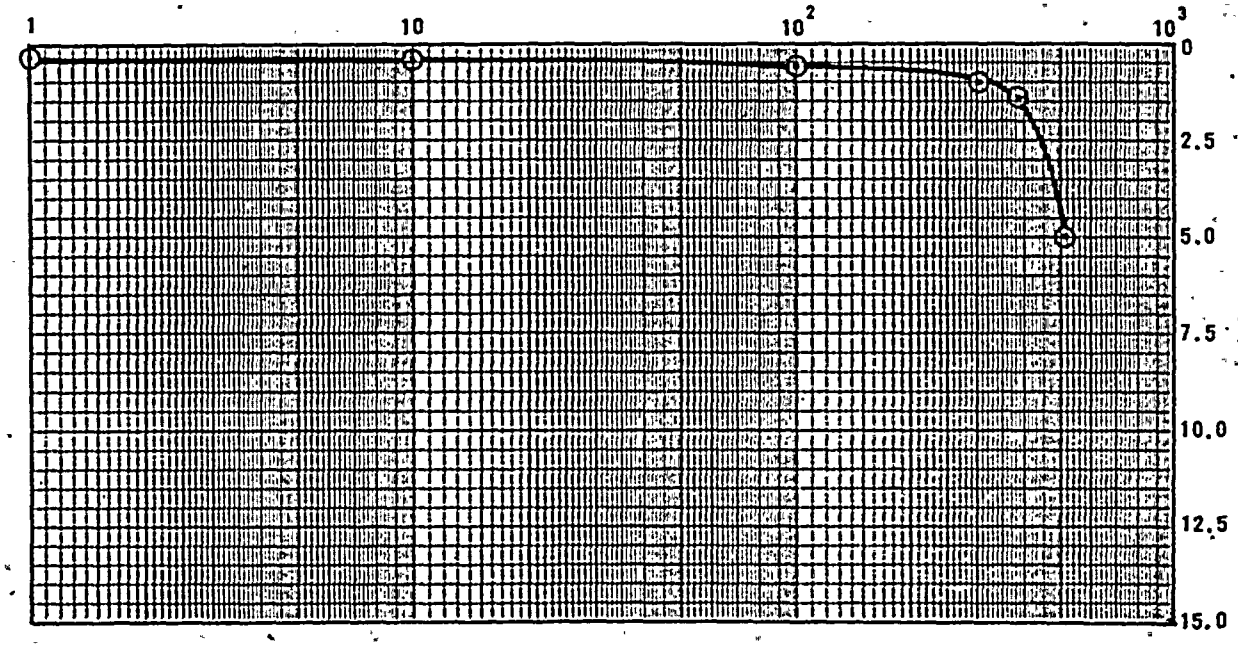
LABORATORY DYNAMIC TEST DATA

2T.21.151

CYCLIC TRIAXIAL LIQUEFACTION TEST RESULTS

BORING NO.	SAMPLE NO.	SAMPLE DEPTH (ft)	σ_o' (PSI)	$\sigma_{dc}/2\sigma_o'$	
U2-LB-1	4A	39.5-40.33	35	0.40	



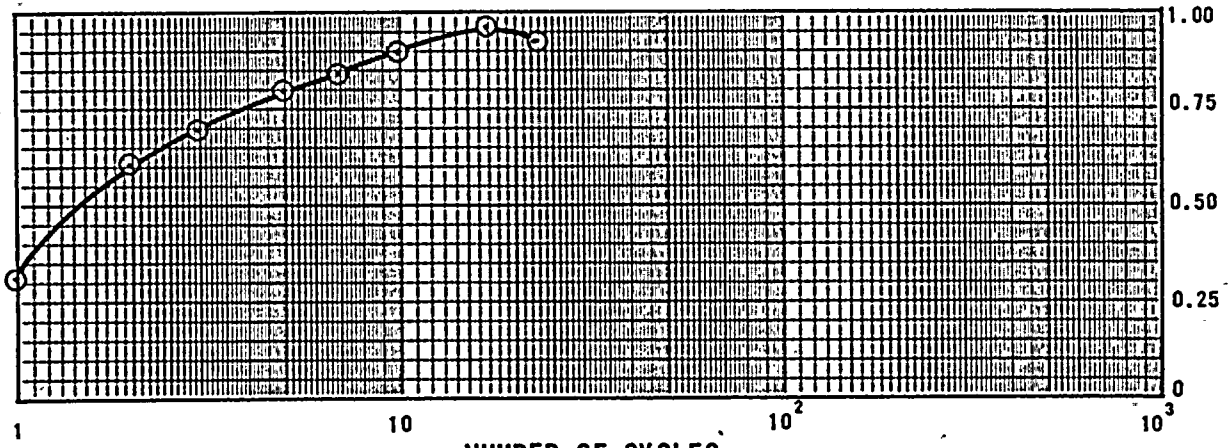


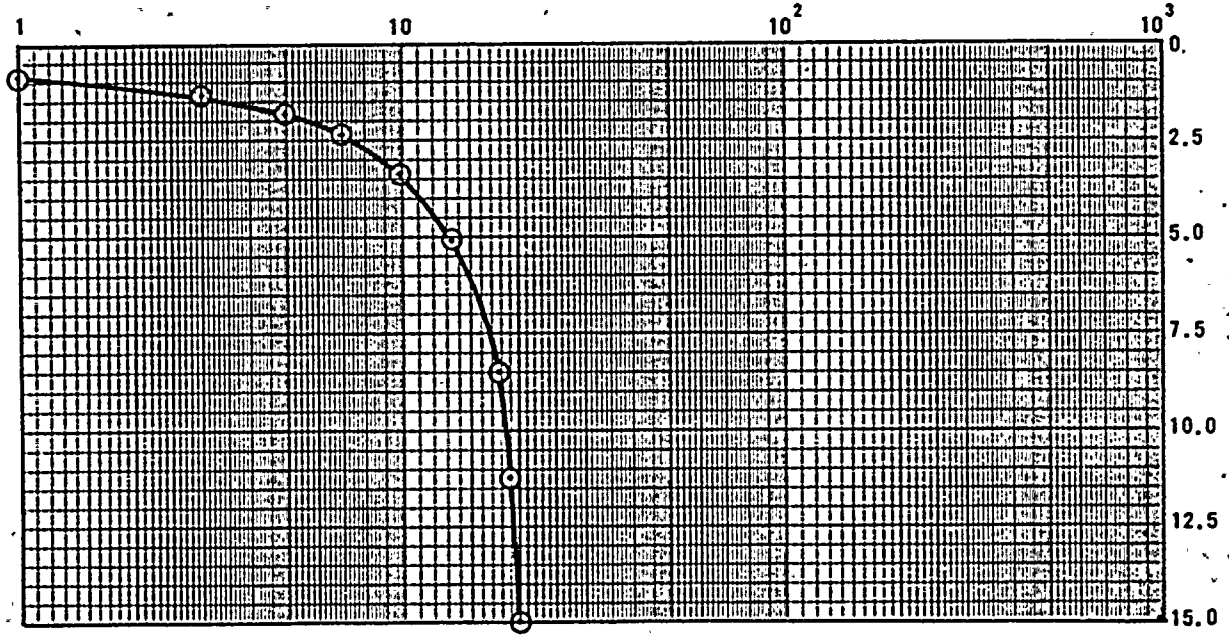
LABORATORY DYNAMIC TEST DATA

2T.21.152

CYCLIC TRIAXIAL LIQUEFACTION TEST RESULTS

BORING NO.	SAMPLE NO.	SAMPLE DEPTH (ft)	σ_o' (PSI)	$\sigma_{dc}/2\sigma_o'$	
U2-LB-1	4B	39.5-40.3	35	0.48	



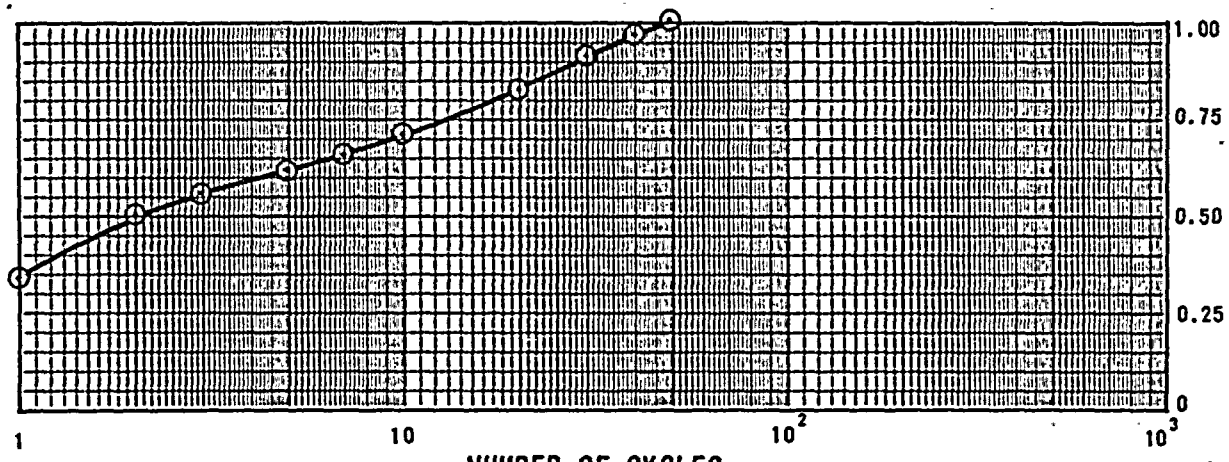


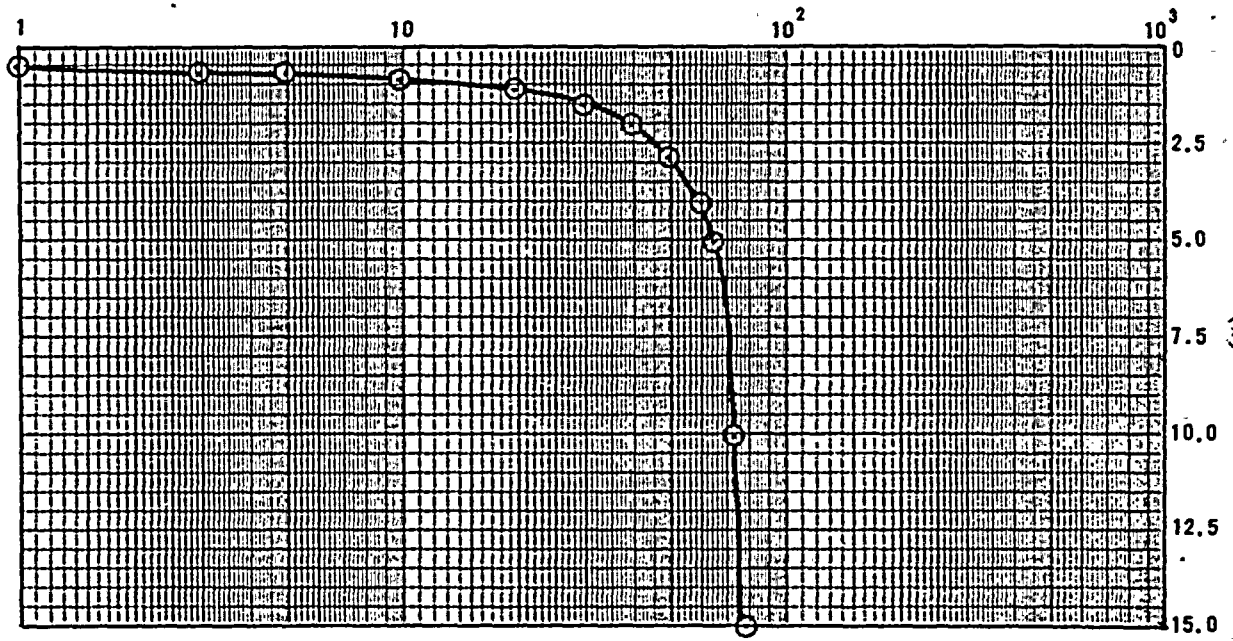
LABORATORY DYNAMIC TEST DATA

2T.21.153

CYCLIC TRIAXIAL LIQUEFACTION TEST RESULTS

BORING NO.	SAMPLE NO.	SAMPLE DEPTH (ft)	σ_o' (PSI)	$\sigma_{dc}/2\sigma_o'$	
U2-LB-1	4C	39.5-40.3	35	0.45	



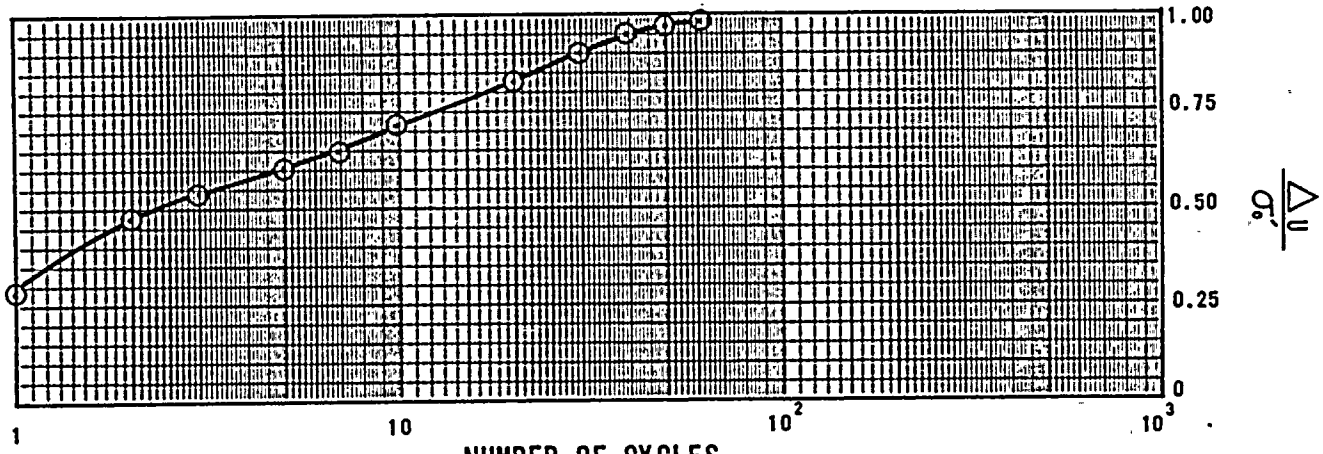


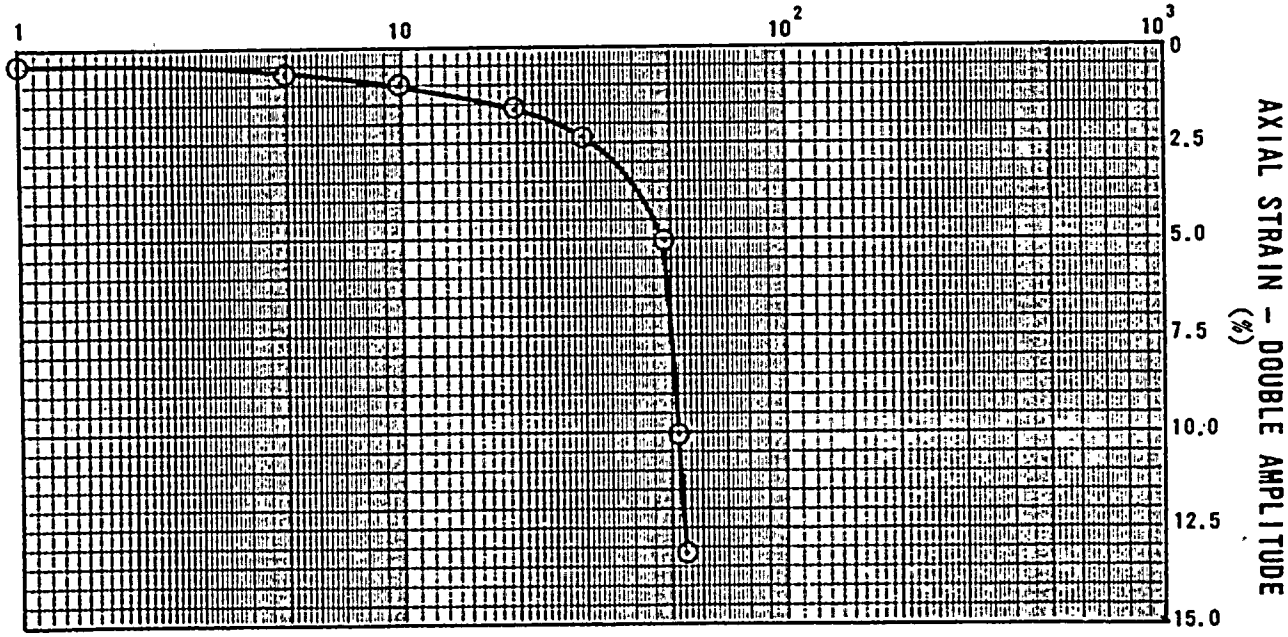
LABORATORY DYNAMIC TEST DATA

2T.21.154

CYCLIC TRIAXIAL LIQUEFACTION TEST RESULTS

BORING NO.	SAMPLE NO.	SAMPLE DEPTH (ft)	σ_o' (PSI)	$\sigma_{dc}/2\sigma_o'$	
U2-LB-1	4D	39.5-40.3	35	0.50	



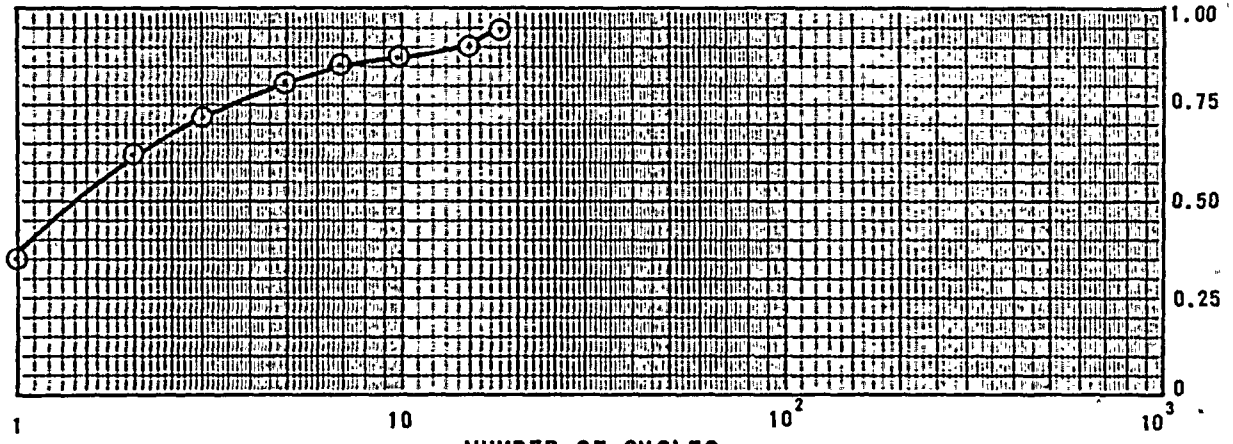


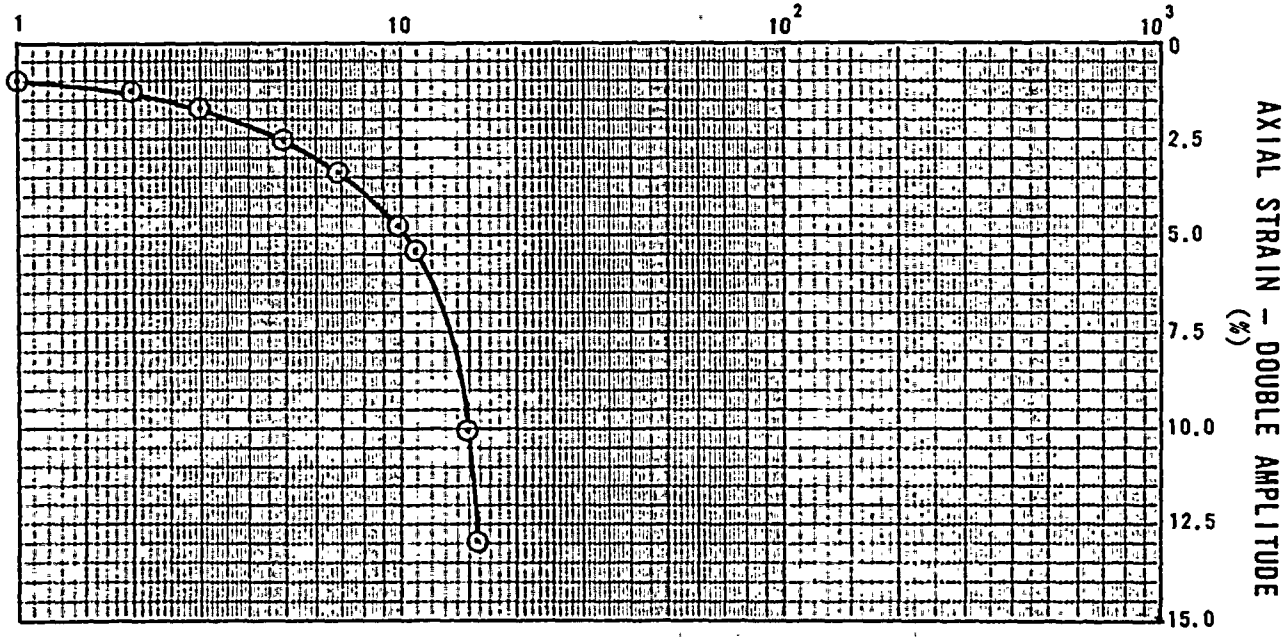
LABORATORY DYNAMIC TEST DATA

2T.21.155

CYCLIC TRIAXIAL LIQUEFACTION TEST RESULTS

BORING NO.	SAMPLE NO.	SAMPLE DEPTH (ft)	σ_o' (PSI)	$\sigma_{dc}/2\sigma_o'$	
U2-LB-1	5B	39.5-40.3	35	0.45	



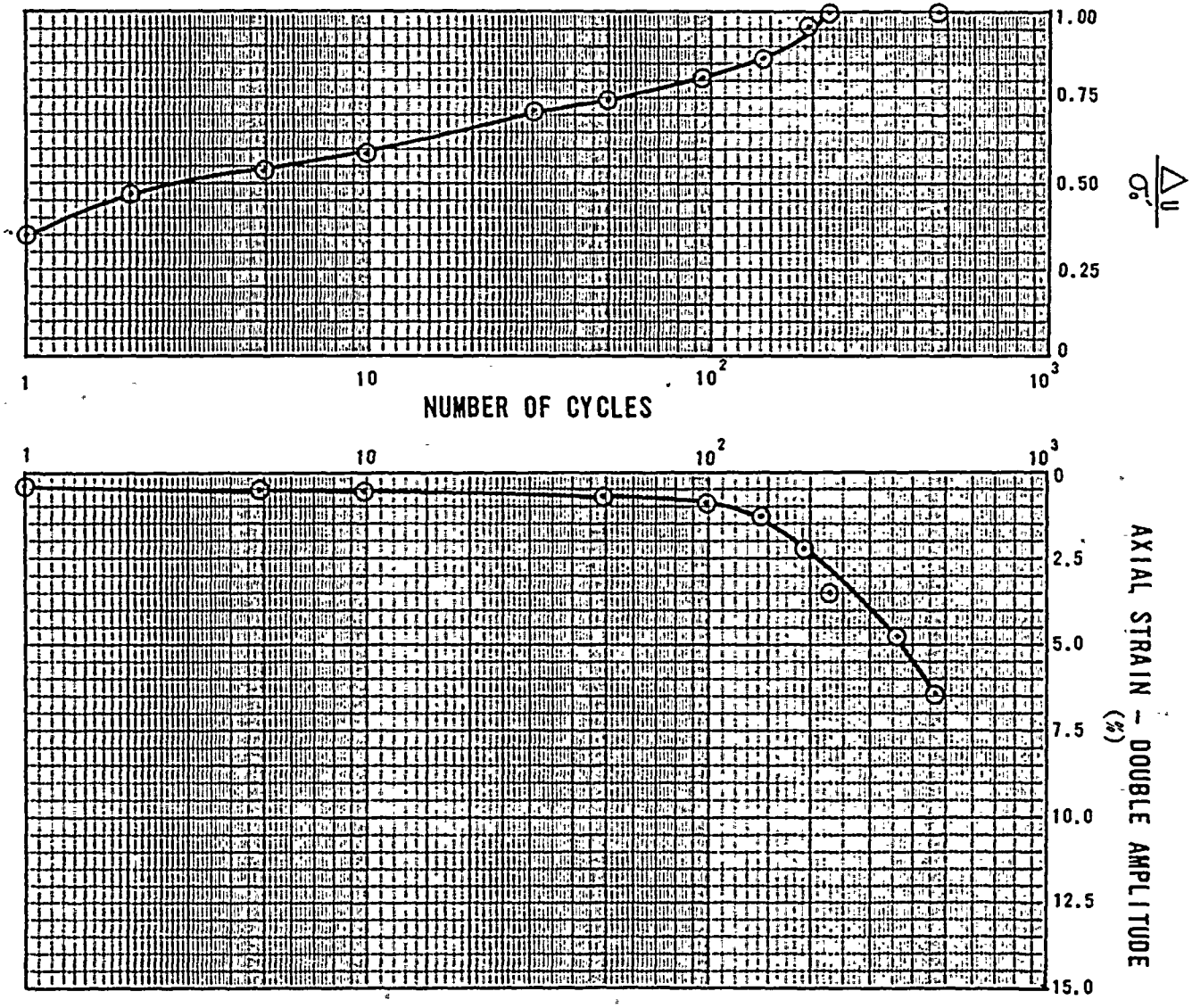


LABORATORY DYNAMIC TEST DATA

2T.21.156

CYCLIC TRIAXIAL LIQUEFACTION TEST RESULTS

BORING NO.	SAMPLE NO.	SAMPLE DEPTH (ft)	σ_o' (PSI)	$\sigma_{dc}/2\sigma_o'$	
U2-LB-1	7A	39.5-40.3	35	0.4	

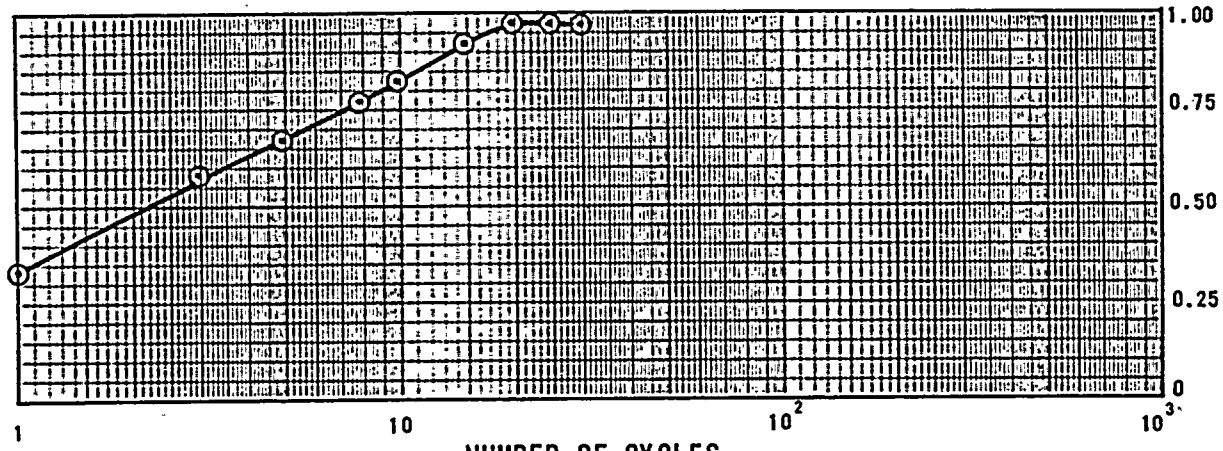


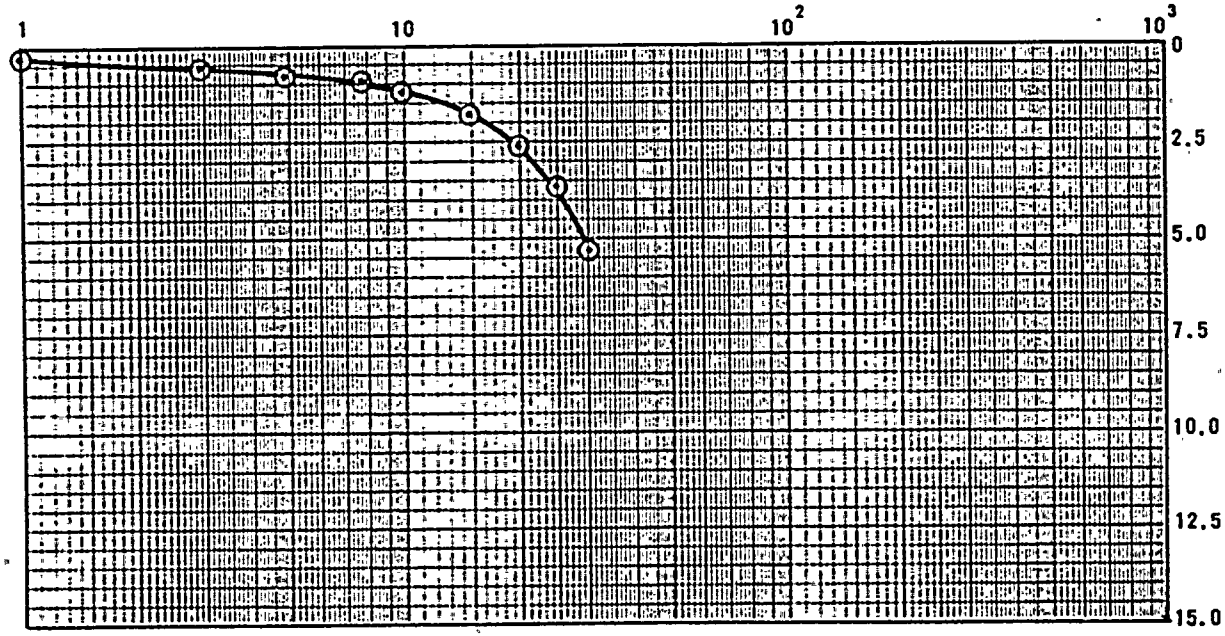
LABORATORY DYNAMIC TEST DATA

2T.21.157

CYCLIC TRIAXIAL LIQUEFACTION TEST RESULTS

BORING NO.	SAMPLE NO.	SAMPLE DEPTH (ft)	σ_o' (PSI)	$\sigma_{dc}/2\sigma_o'$	
U3-LB-1	10A	30.7-31.8	26.0	0.43	



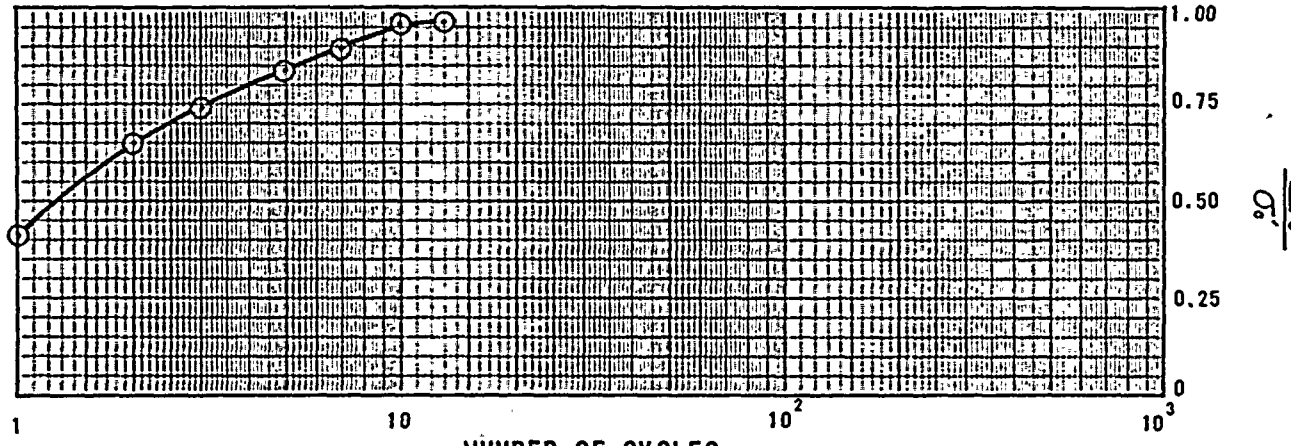


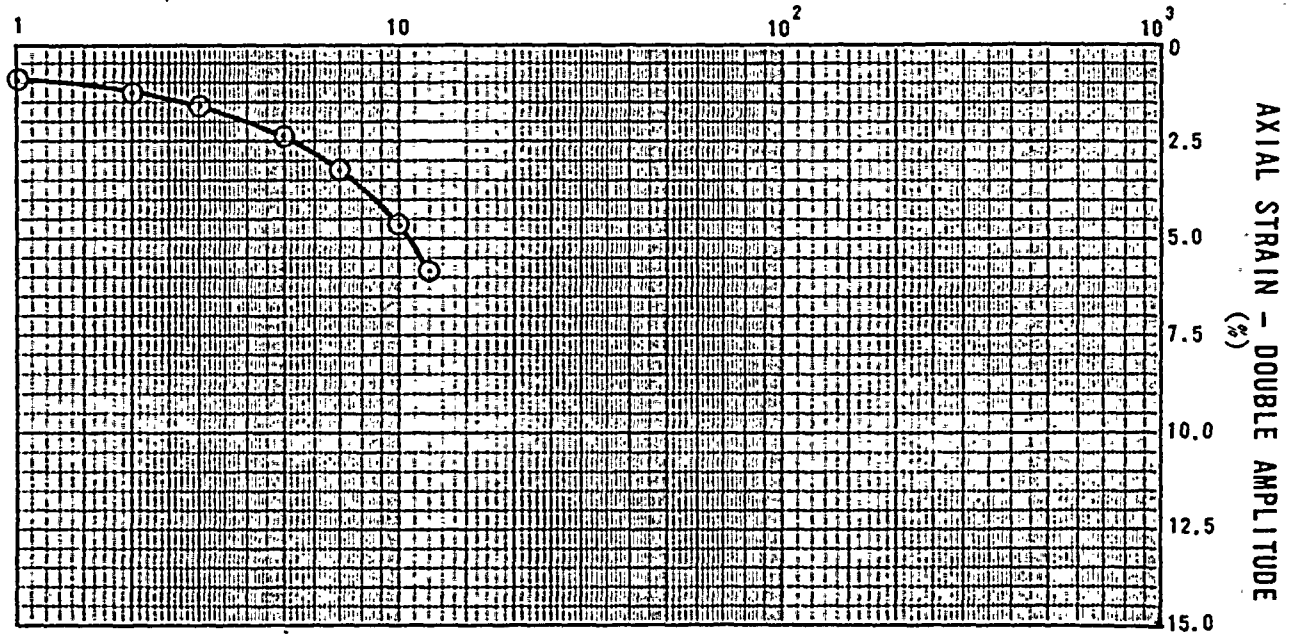
LABORATORY DYNAMIC TEST DATA

2T.21.158

CYCLIC TRIAXIAL LIQUEFACTION TEST RESULTS

BORING NO.	SAMPLE NO.	SAMPLE DEPTH (ft)	σ_o' (PSI)	$\sigma_{dc}/2\sigma_o'$	
U3-LB-1	10B	30.7-31.8	26.0	0.48	



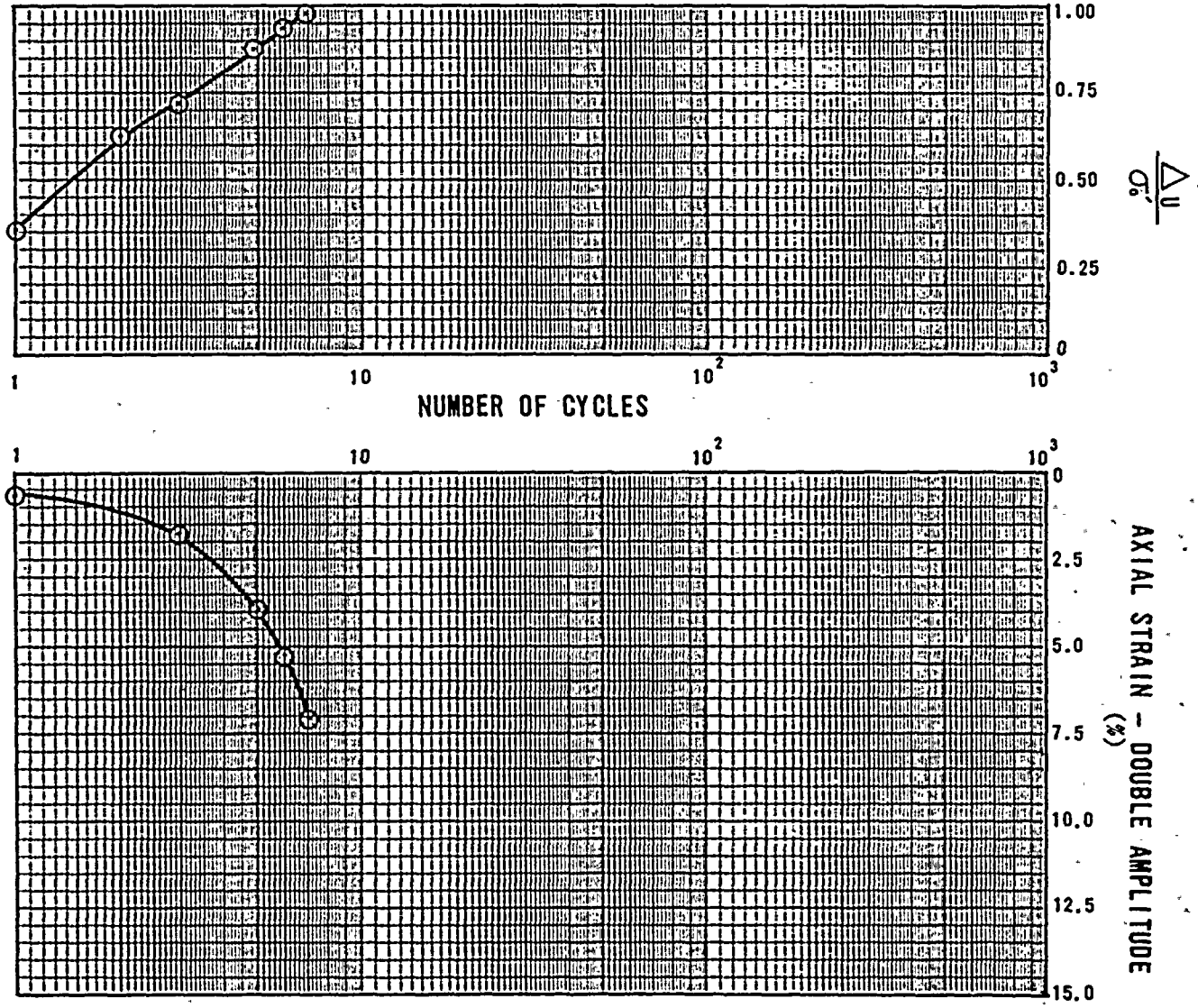


LABORATORY DYNAMIC TEST DATA

2T.21.159

CYCLIC TRIAXIAL LIQUEFACTION TEST RESULTS

BORING NO.	SAMPLE NO.	SAMPLE DEPTH (ft)	σ_o' (PSI)	$\sigma_{dc}/2\sigma_o'$	
U3-LB-2	12A	34.4-35.0	28.0	0.40	

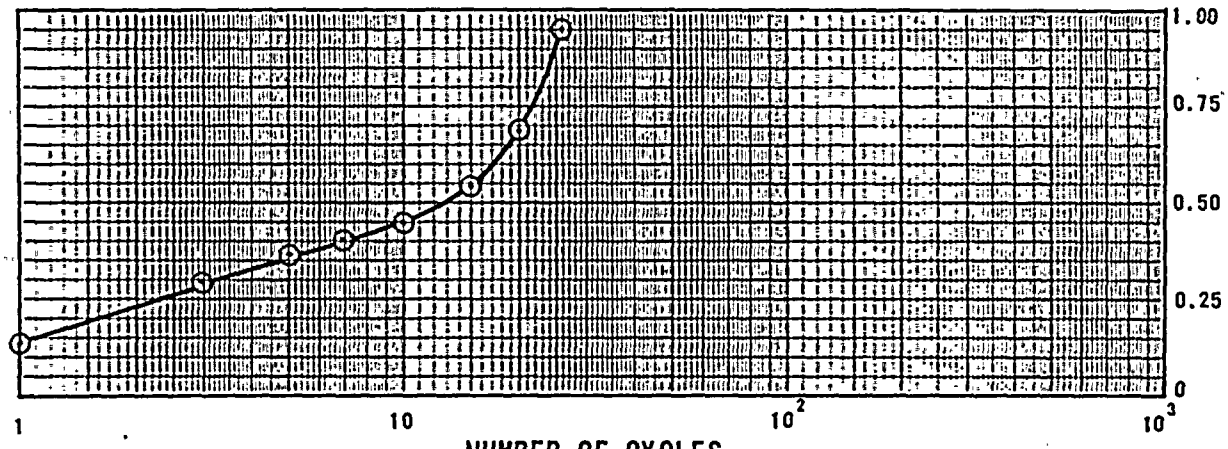


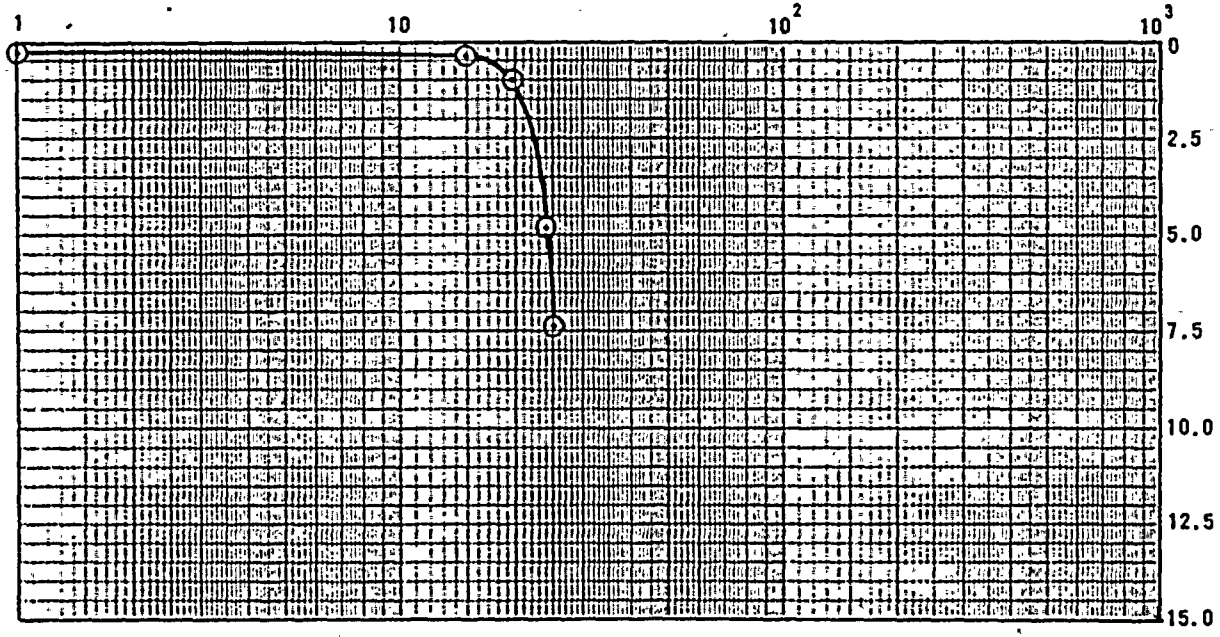
LABORATORY DYNAMIC TEST DATA

2T.21.160

CYCLIC TRIAXIAL LIQUEFACTION TEST RESULTS

BORING NO.	SAMPLE NO.	SAMPLE DEPTH (ft)	σ_o' (PSI)	$\sigma_{dc}/2\sigma_o'$	
U3-LB-2	13	34.9-35.6	30	0.25	



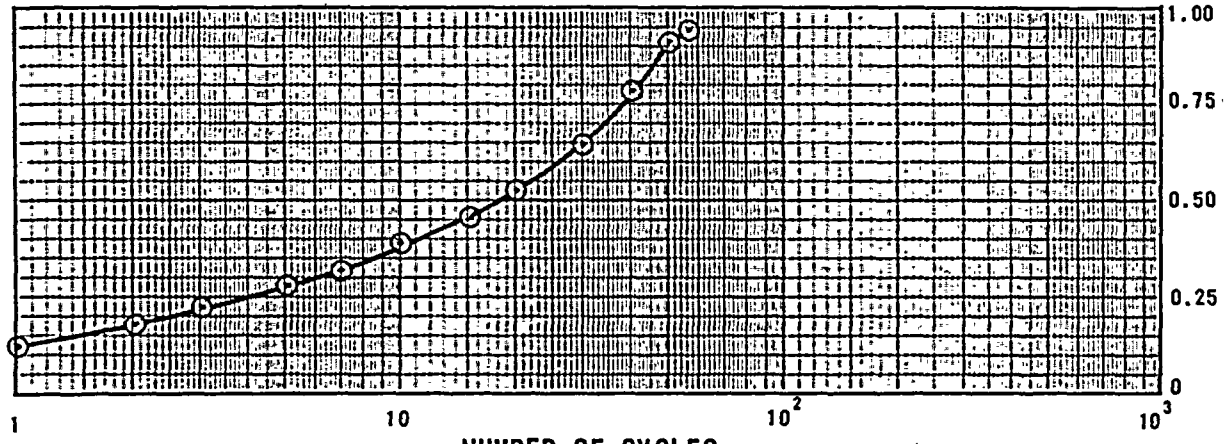


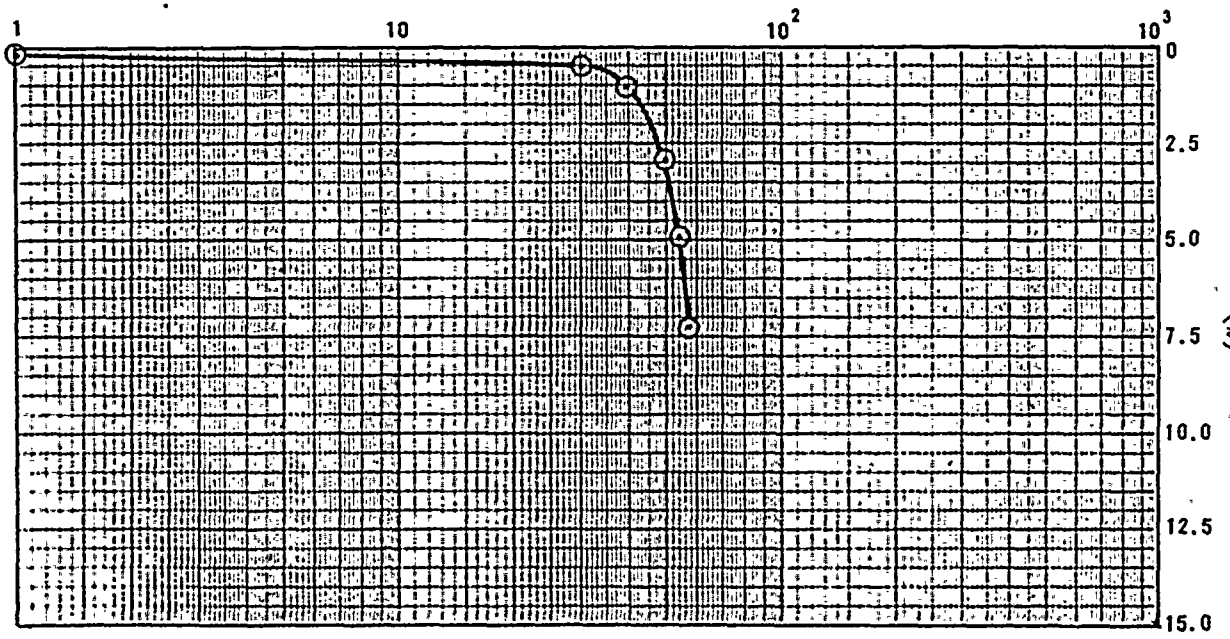
LABORATORY DYNAMIC TEST DATA

2T.21.161

CYCLIC TRIAXIAL LIQUEFACTION TEST RESULTS

BORING NO.	SAMPLE NO.	SAMPLE DEPTH (ft)	σ_c' (PSI)	$\sigma_{dc}/2\sigma_c'$	
U3-LB-1	15A	35.9-36.7	30.0	0.40	



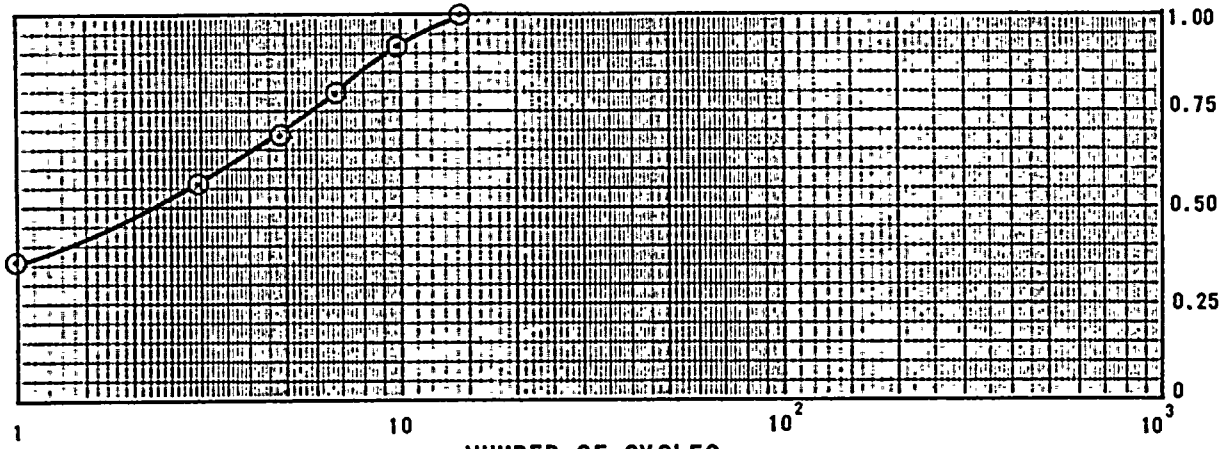


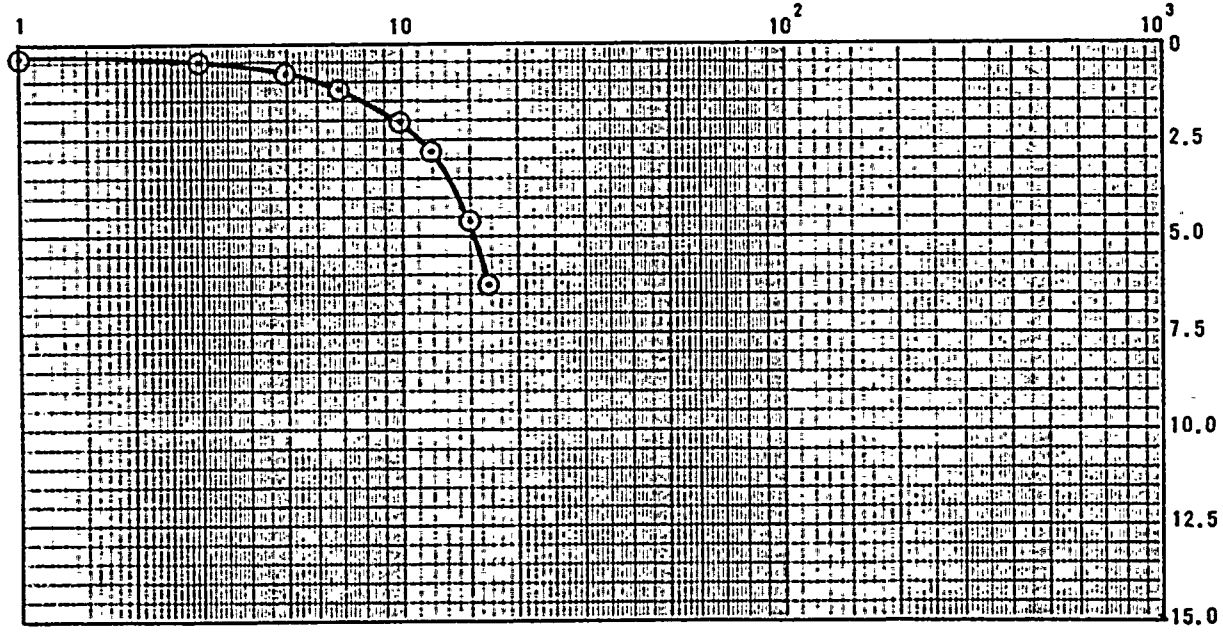
LABORATORY DYNAMIC TEST DATA

2T.21.162

CYCLIC TRIAXIAL LIQUEFACTION TEST RESULTS

BORING NO.	SAMPLE NO.	SAMPLE DEPTH (ft)	σ_o' (PSI)	$\sigma_{dc}/2\sigma_o'$	
U3-LB-2	15B	35.9-36.7	30.0	0.43	



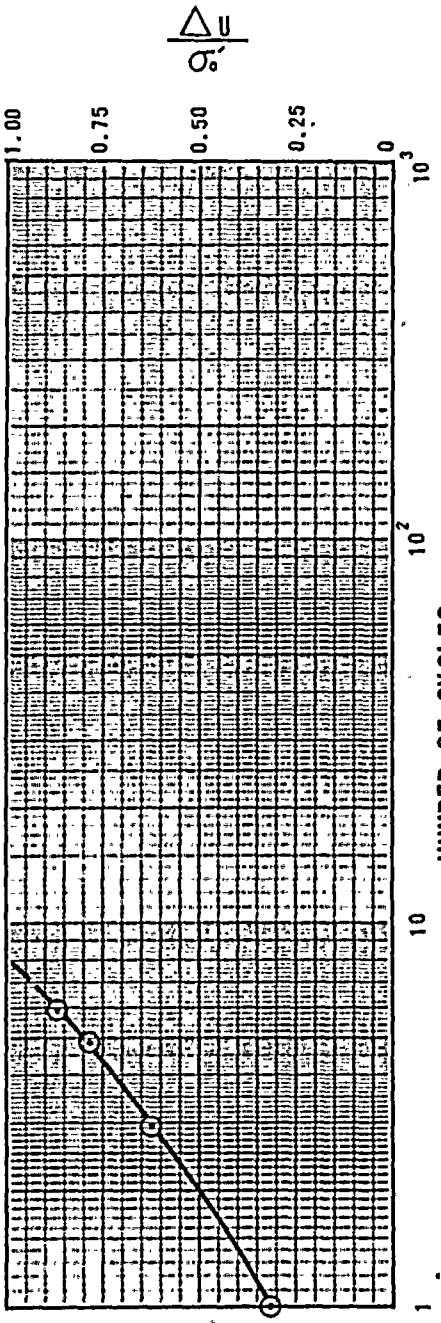


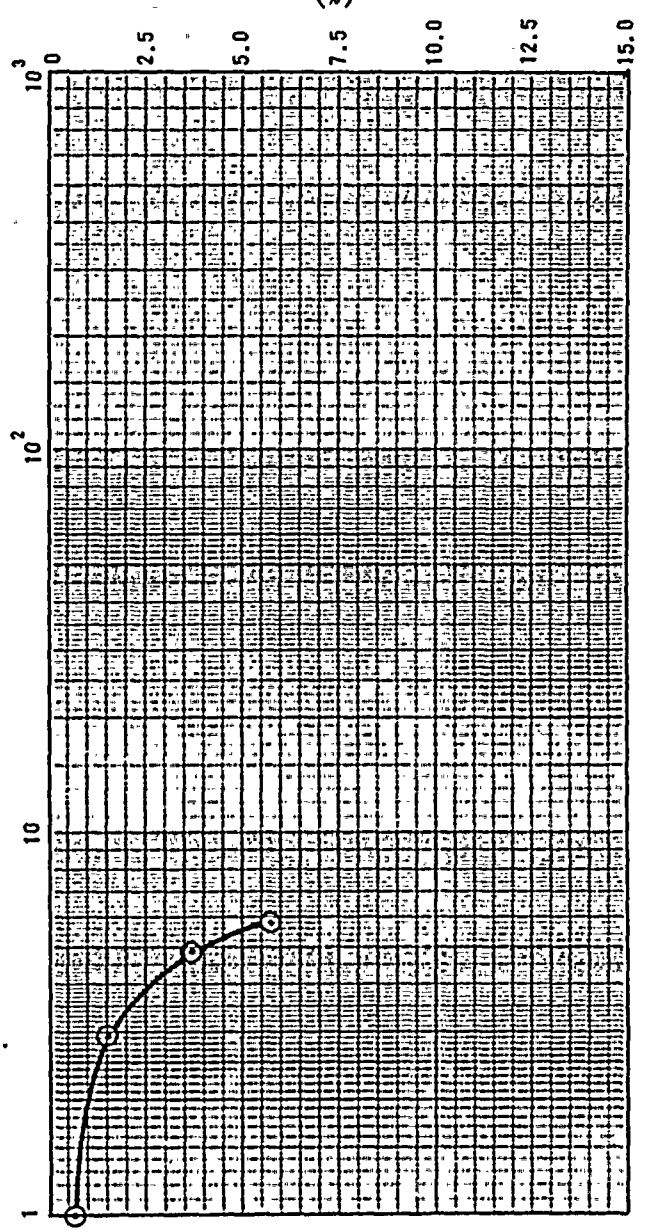
LABORATORY DYNAMIC TEST DATA

2T.21.163

CYCLIC TRIAXIAL LIQUEFACTION TEST RESULTS

BORING NO.	SAMPLE NO.	SAMPLE DEPTH (ft)	σ_o' (PSI)	$\sigma_{dc}/2\sigma_o'$	
U3-LB-2	16	36.8-37.6	32.0	0.25	





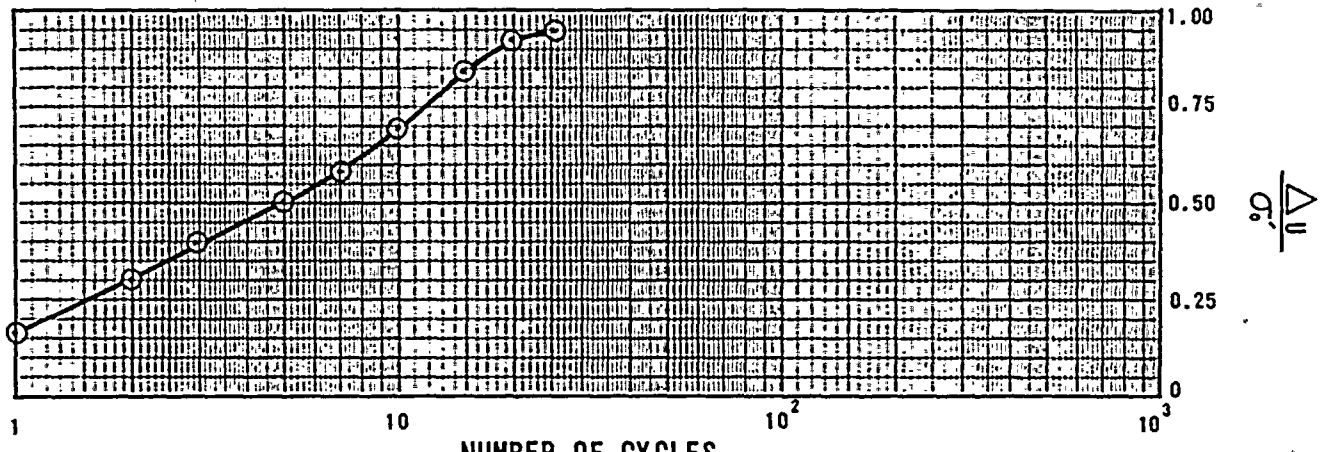
Note: Results not used due to excessive disturbance during sampling.

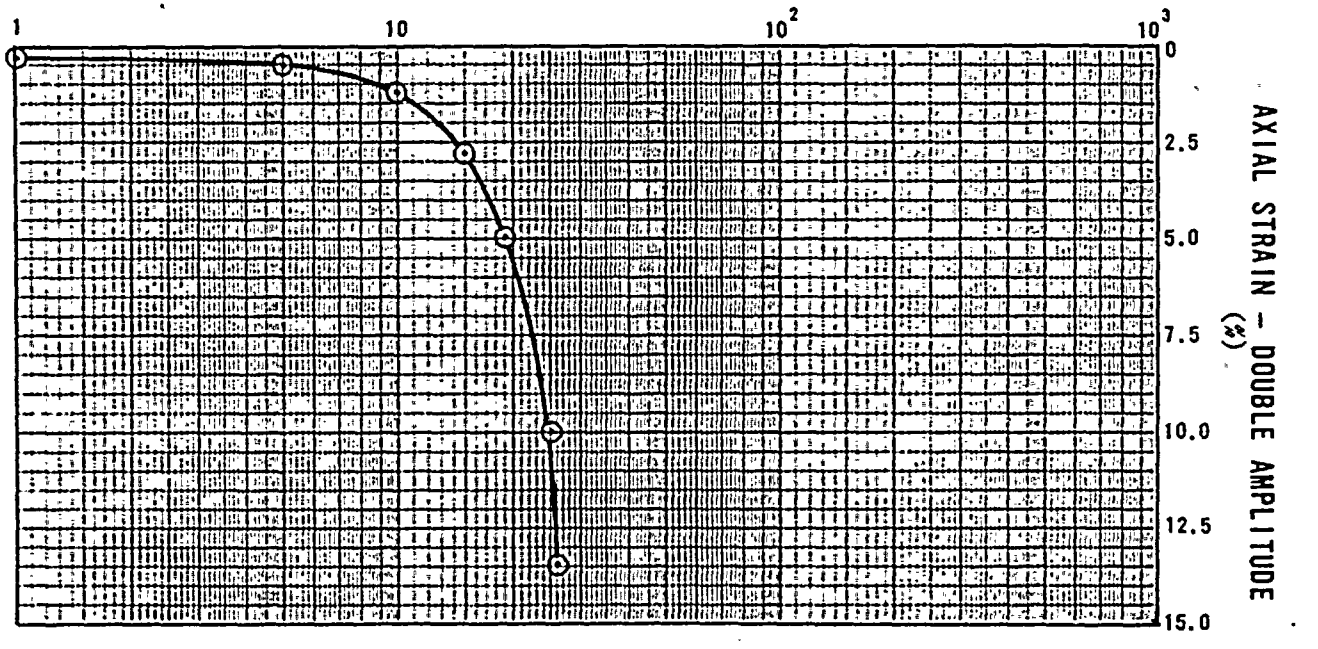
LABORATORY DYNAMIC TEST DATA

2T.21.164

CYCLIC TRIAXIAL LIQUEFACTION TEST RESULTS

BORING NO.	SAMPLE NO.	SAMPLE DEPTH (ft)	σ_o' (PSI)	$\sigma_{dc}/2\sigma_o'$	
U2-LB-1	18A	43-43.8	37.0	0.30	



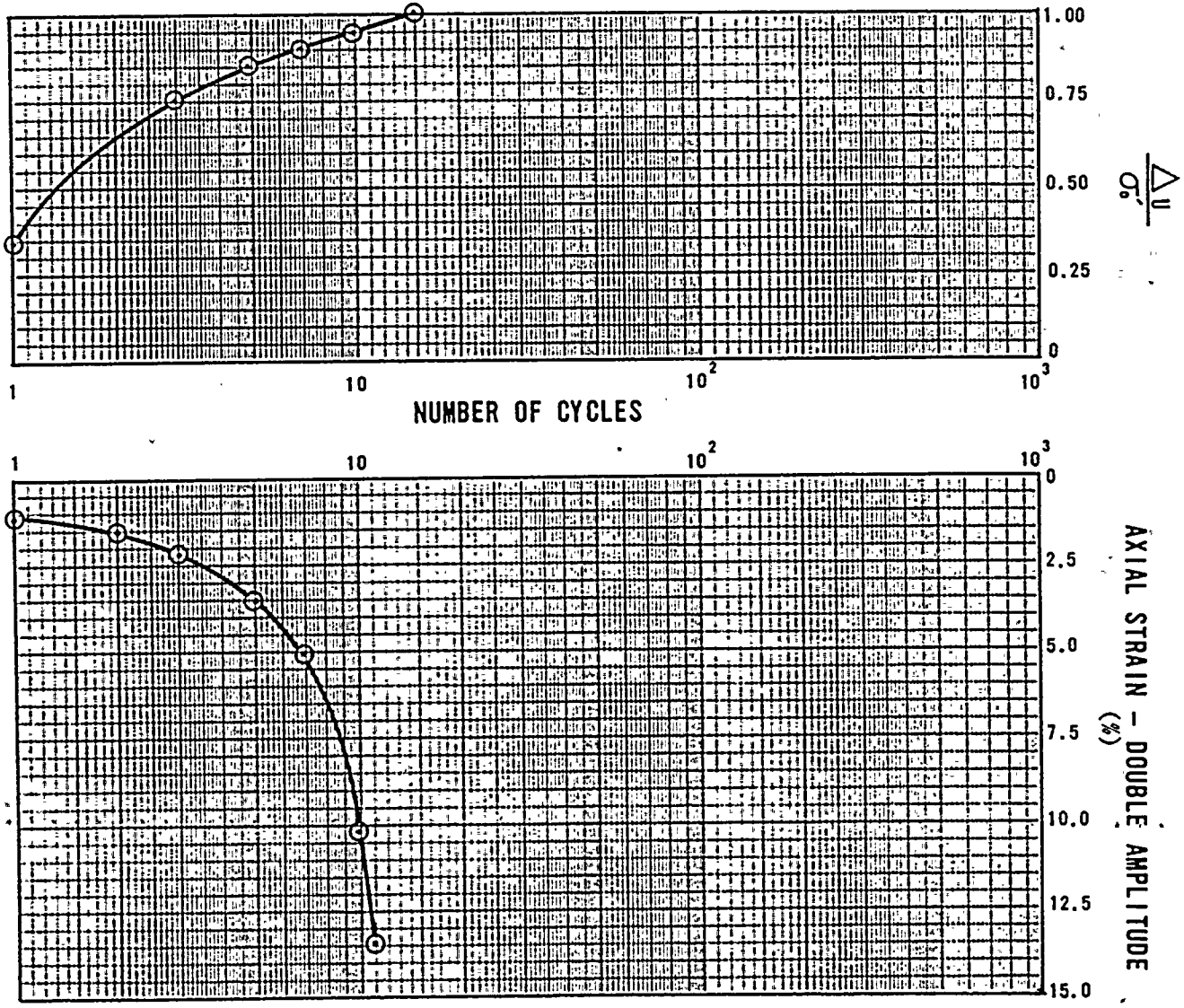


LABOTATORY DYNAMIC TEST DATA

2T.21.165

CYCLIC TRIAXIAL LIQUEFACTION TEST RESULTS

BORING NO.	SAMPLE NO.	SAMPLE DEPTH (ft)	σ_o' (PSI)	$\sigma_{dc}/2\sigma_o'$	
U2-LB-1	18B	43-43.8	37.0	0.35	

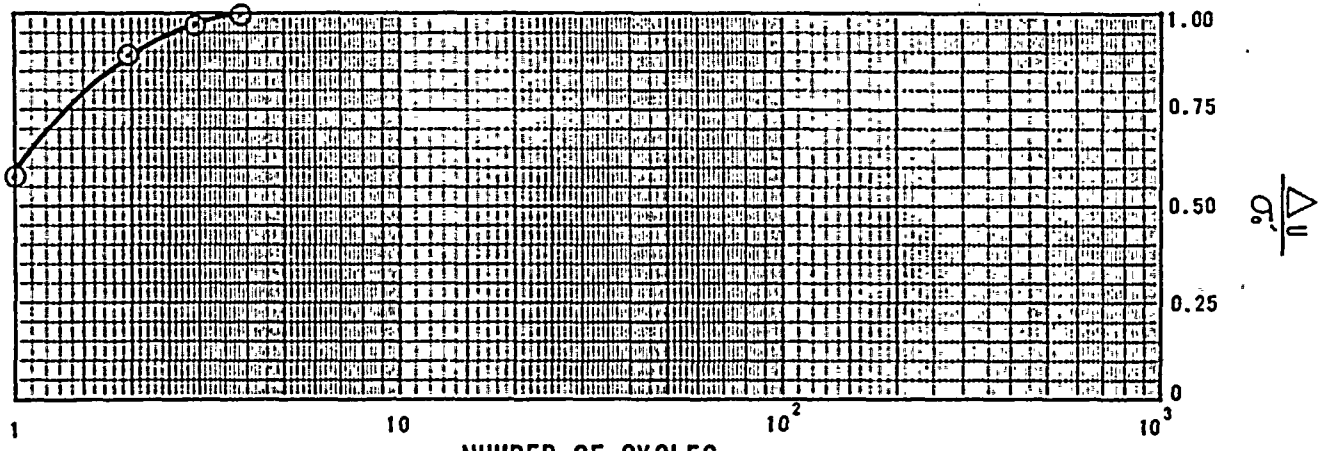


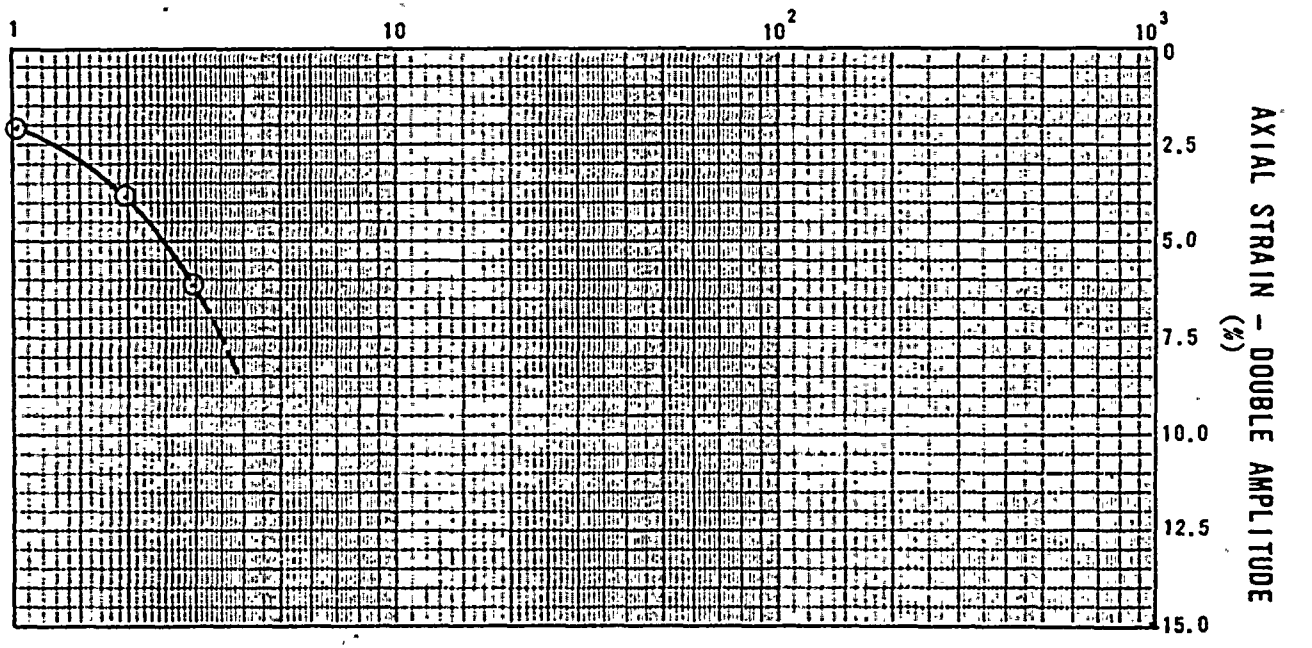
LABORATORY DYNAMIC TEST DATA

2T.21.166

CYCLIC TRIAXIAL LIQUEFACTION TEST RESULTS

BORING NO.	SAMPLE NO.	SAMPLE DEPTH (ft)	σ_o' (PSI)	$\sigma_{dc}/2\sigma_o'$	
U3-LB-2	19C	36	31.0	0.30	



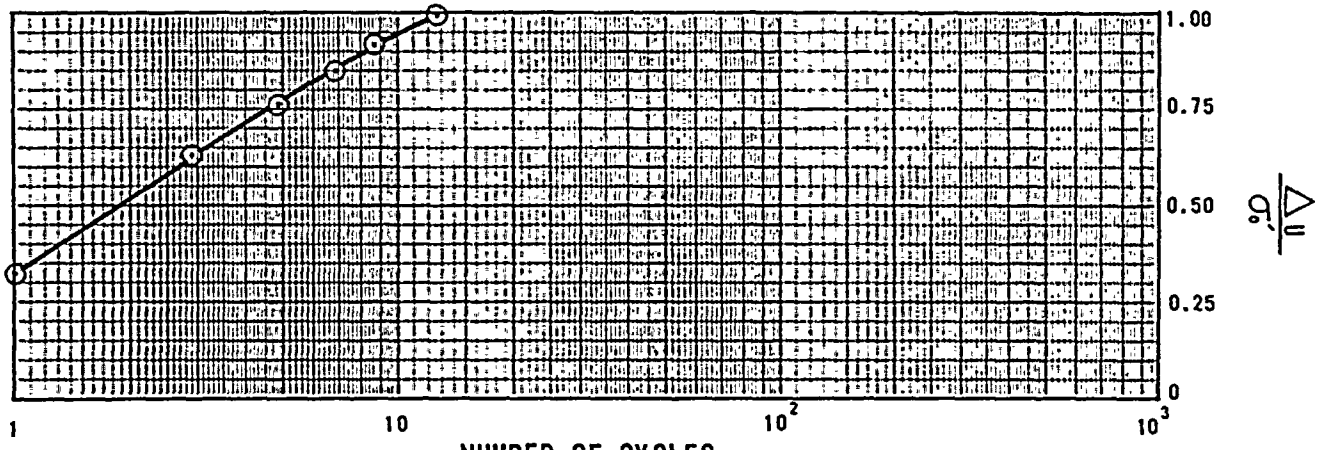


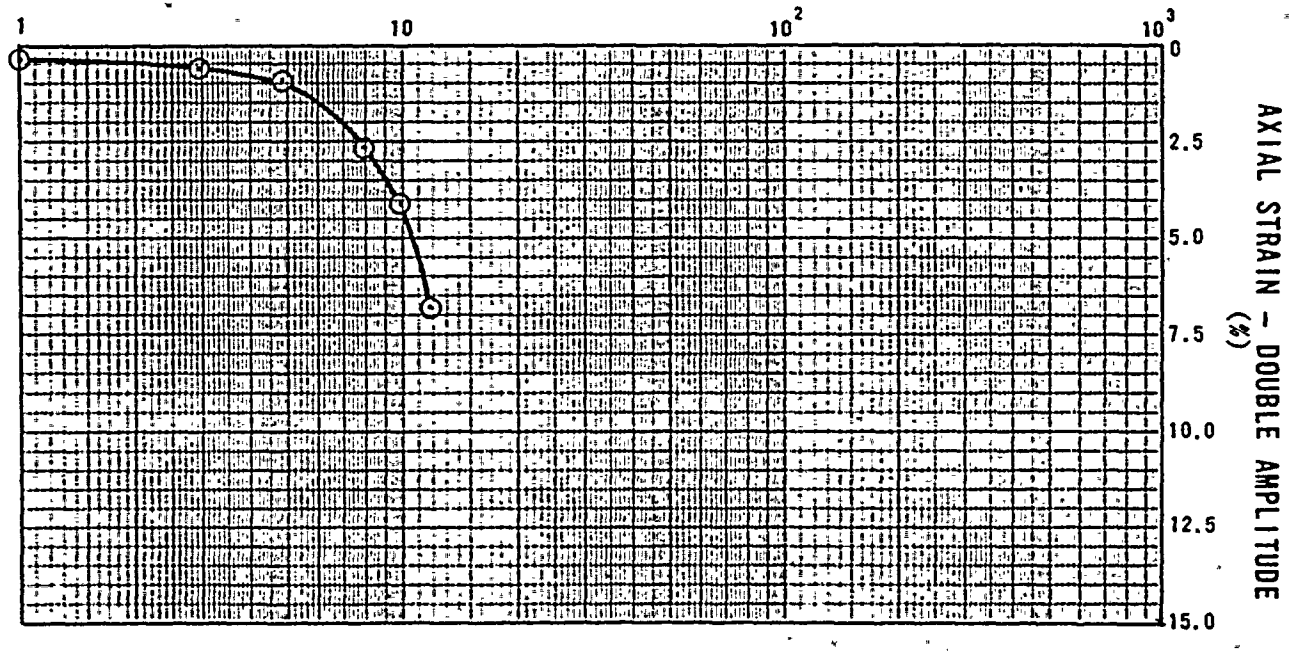
LABORATORY DYNAMIC TEST DATA

2T.21.167

CYCLIC TRIAXIAL LIQUEFACTION TEST RESULTS

BORING NO.	SAMPLE NO.	SAMPLE DEPTH (ft)	σ_o' (PSI)	$\sigma_{dc}/2\sigma_o'$	
U2-LB-1	20	43.7-44.5	38.0	0.25	



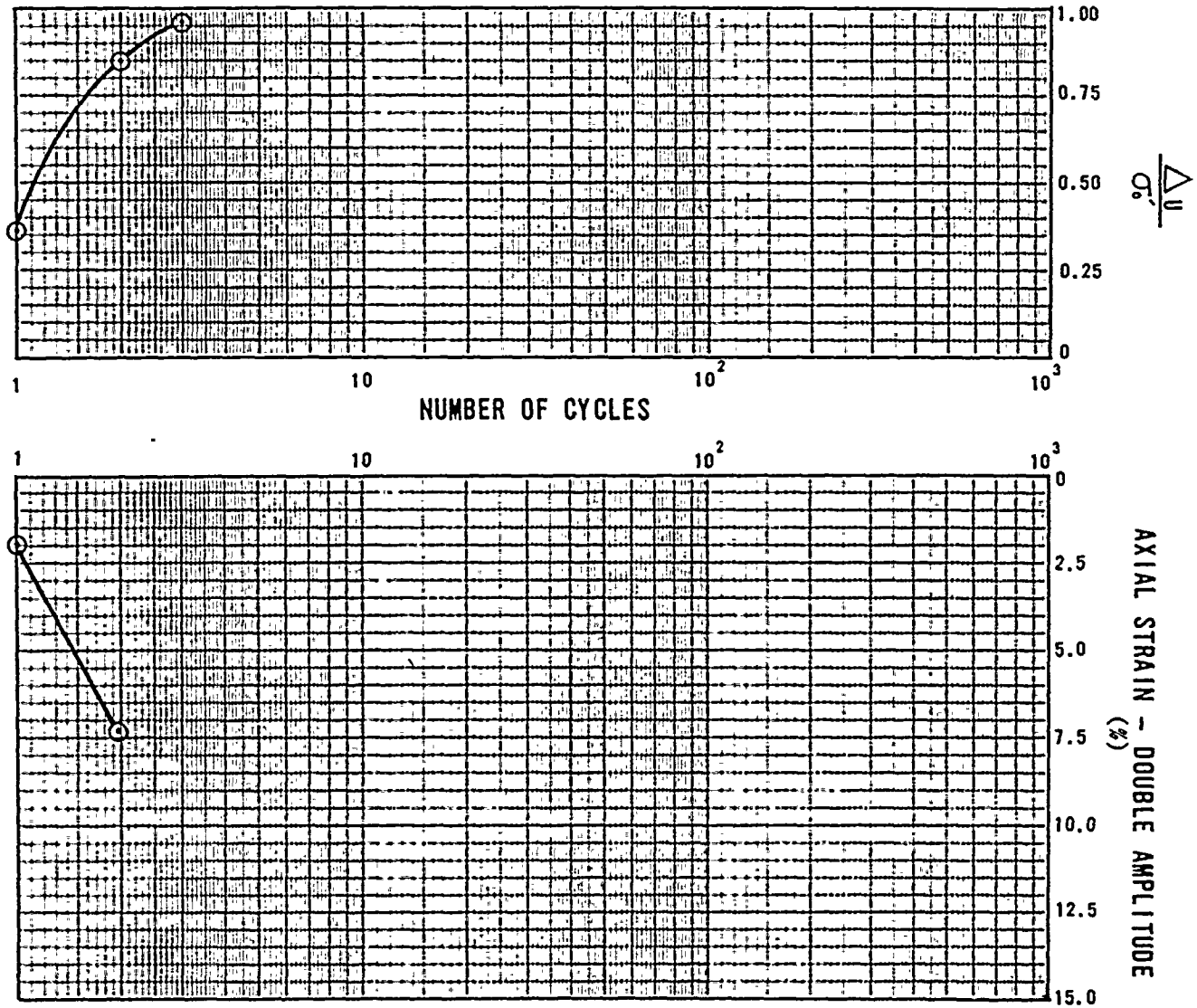


LABORATORY DYNAMIC TEST DATA

2T.21.168

CYCLIC TRIAXIAL LIQUEFACTION TEST RESULTS

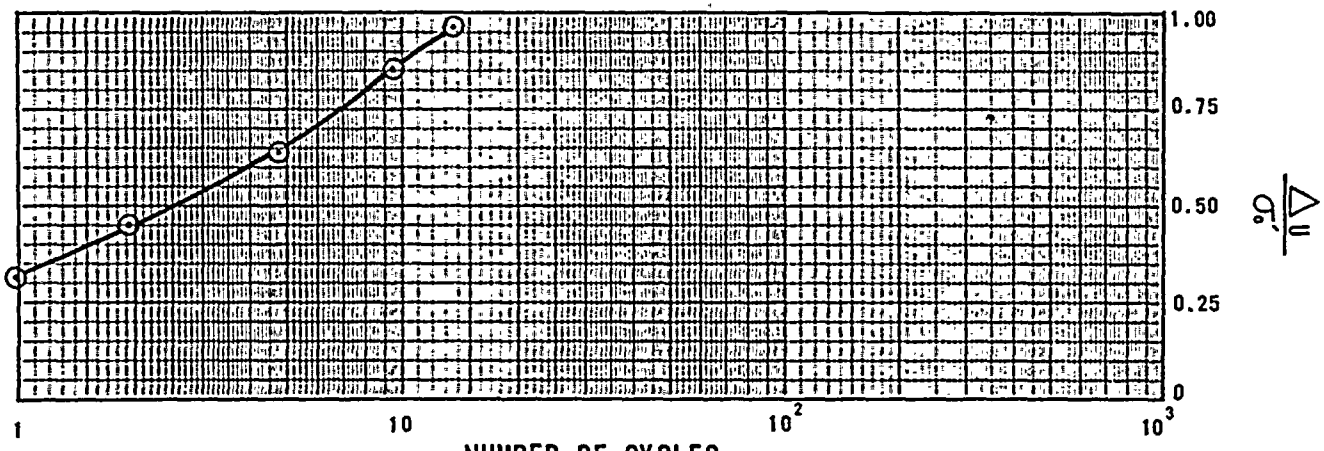
BORING NO.	SAMPLE NO.	SAMPLE DEPTH (ft)	σ_o' (PSI)	$\sigma_{dc}/2\sigma_o'$	
U3-LB-2	23C	38.2-39.1	34.0	0.25	

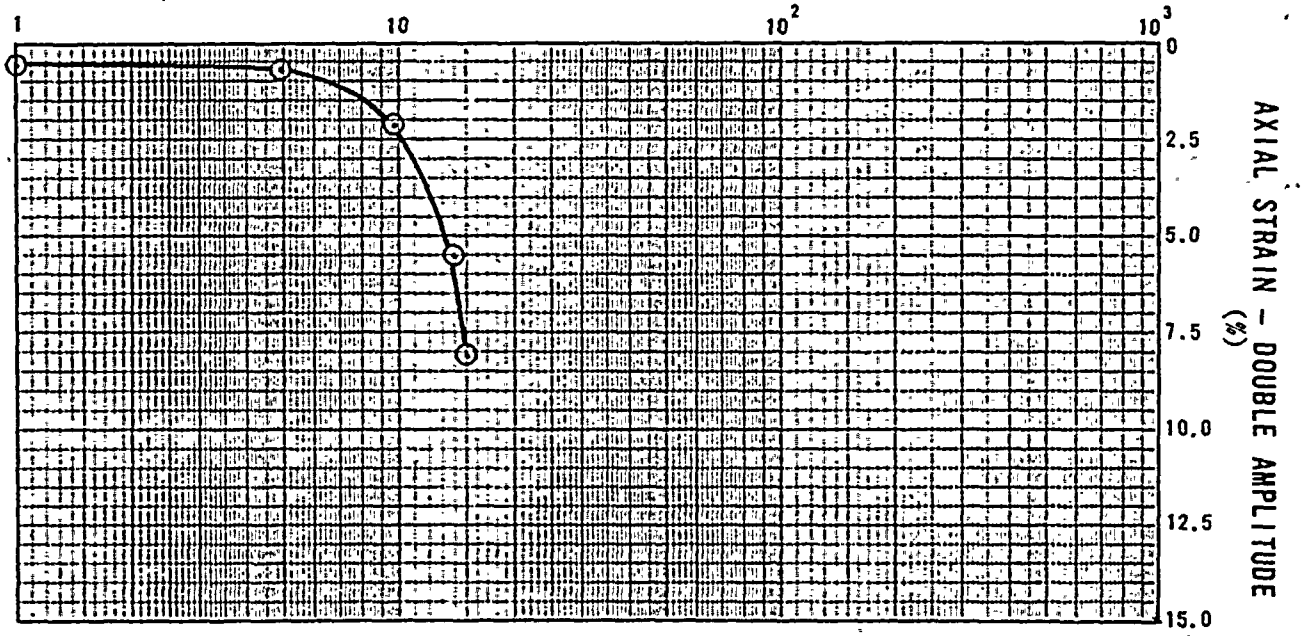


Note: Results not used due to sample necking.

CYCLIC TRIAXIAL LIQUEFACTION TEST RESULTS

BORING NO.	SAMPLE NO.	SAMPLE DEPTH (ft)	σ_o' (PSI)	$\sigma_{dc}/2\sigma_o'$	
U2-LB-1	24	44.7-45.6	39.0	0.25	



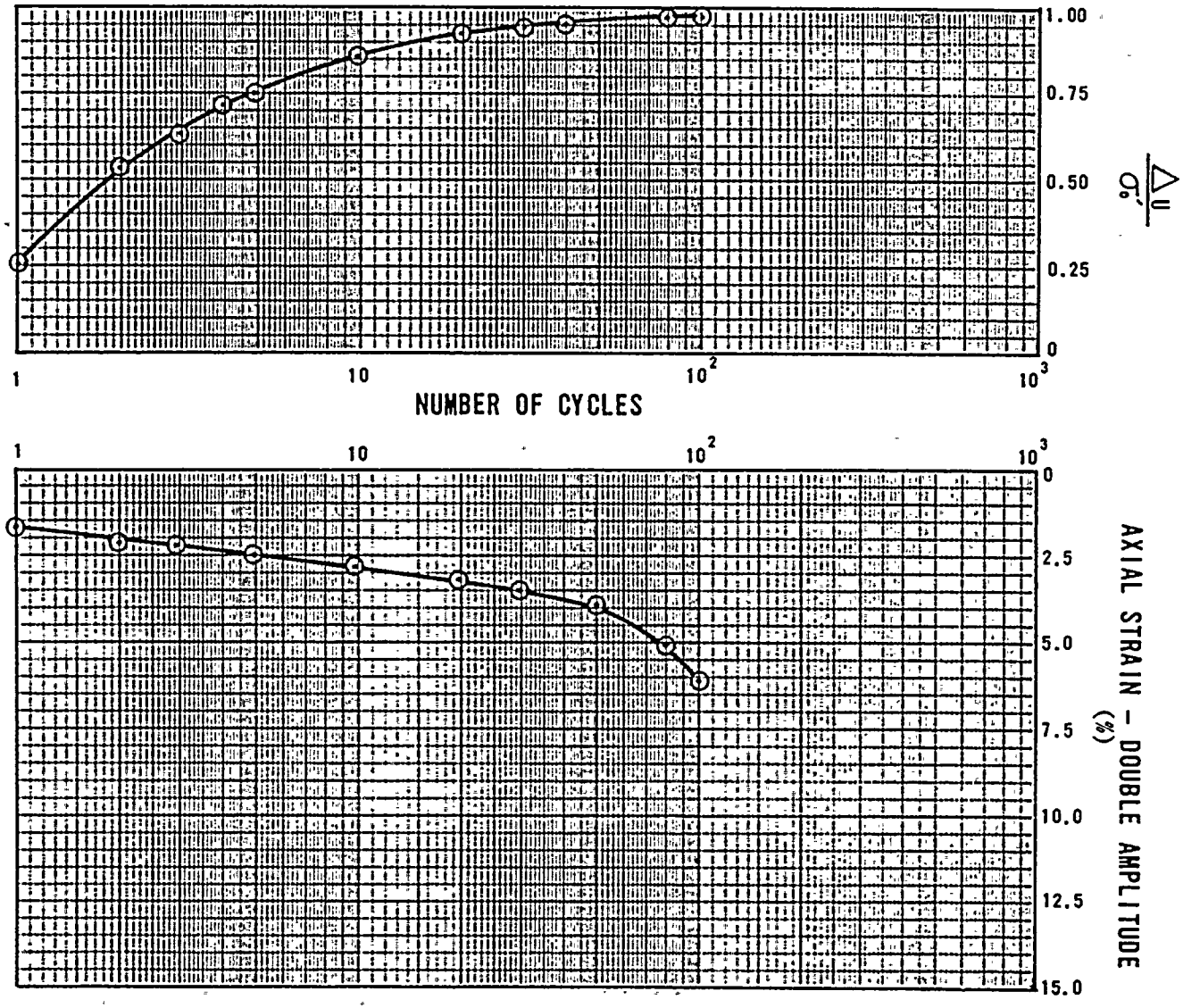


LABORATORY DYNAMIC TESTING DATA

2ft. 21.170

CYCLIC TRIAXIAL LIQUEFACTION TEST RESULTS

BORING NO.	SAMPLE NO.	SAMPLE DEPTH (ft)	σ_o' (PSI)	$\sigma_{dc}/2\sigma_o'$	
LIQ TRENCH	4RA	19-20	17.0	0.375	

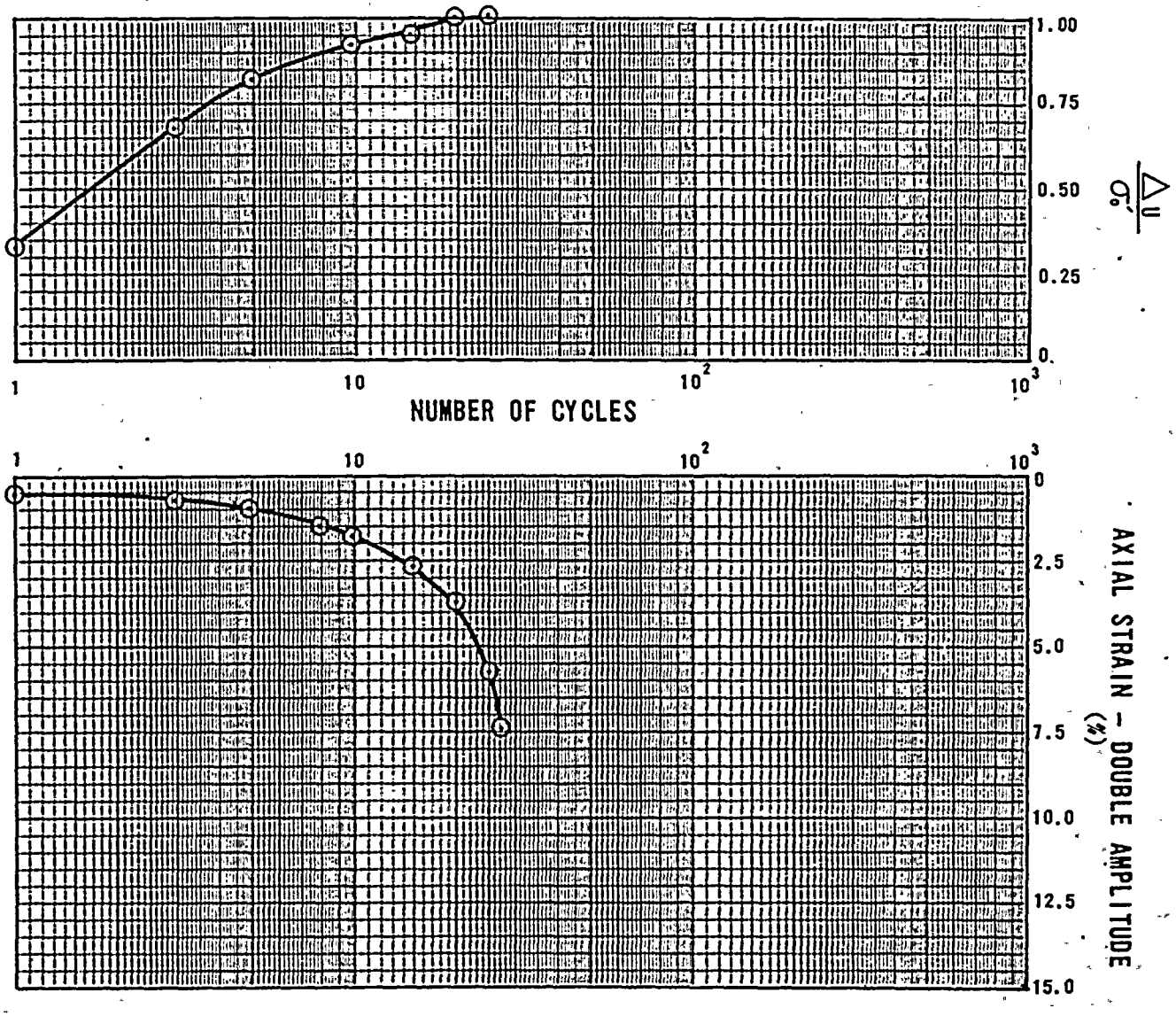


LABORATORY DYNAMIC TESTING DATA

2T.21.171

CYCLIC TRIAXIAL LIQUEFACTION TEST RESULTS

BORING NO.	SAMPLE NO.	SAMPLE DEPTH (ft)	σ_o' (PSI)	$\sigma_{dc}/2\sigma_o'$	
LIQ TRENCH	4RB	19-20	17.0	0.43	

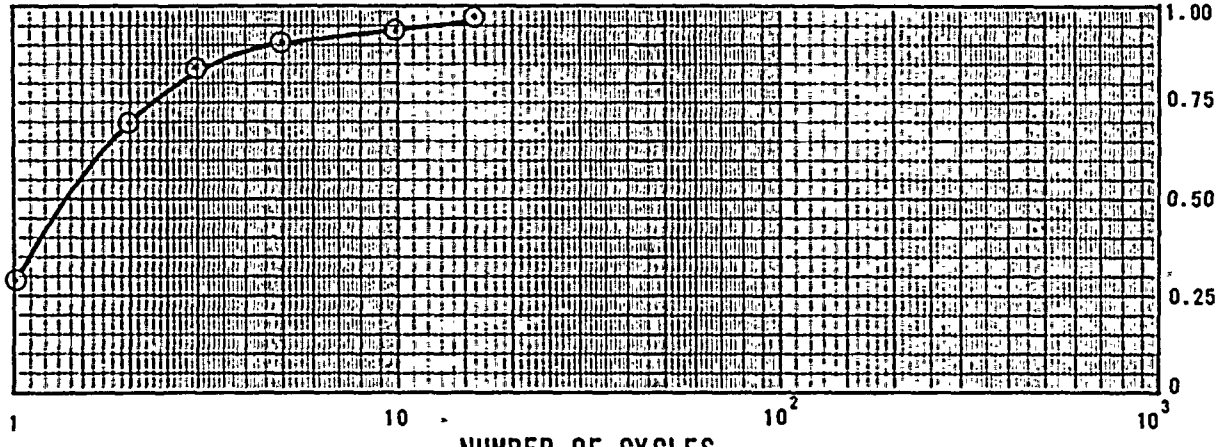


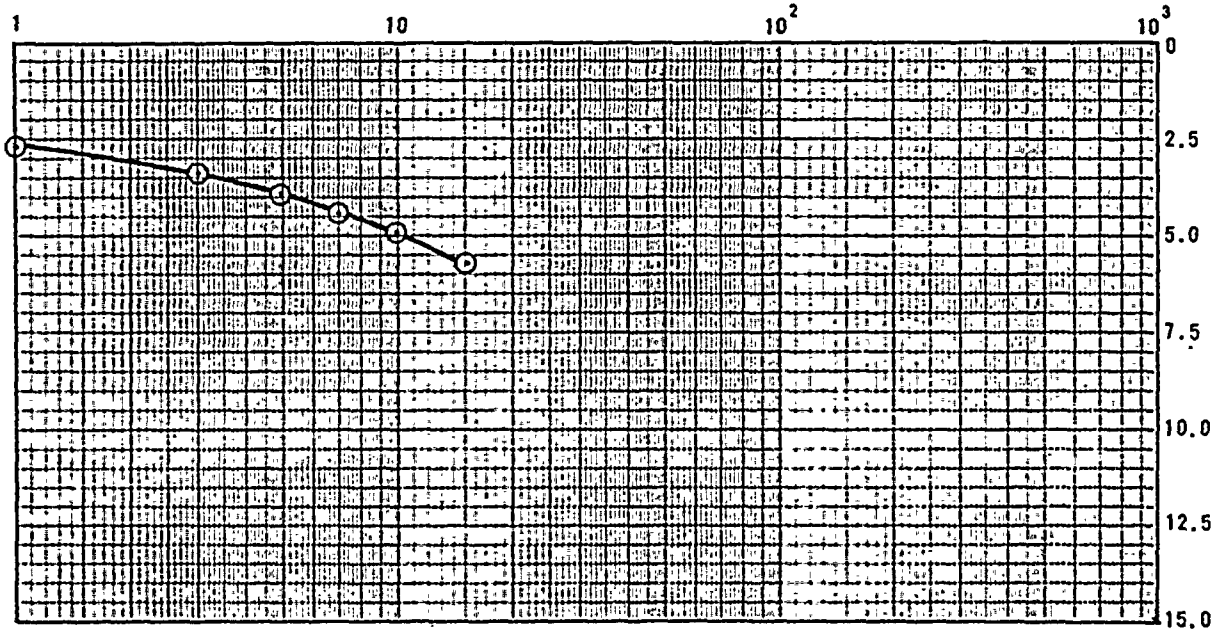
LABORATORY DYNAMIC TEST DATA

2T.21.172

CYCLIC TRIAXIAL LIQUEFACTION TEST RESULTS

BORING NO.	SAMPLE NO.	SAMPLE DEPTH (ft)	σ_o' (PSI)	$\sigma_{dc}/2\sigma_o'$	
PTW-1	5R	15-20	17.0	0.45	



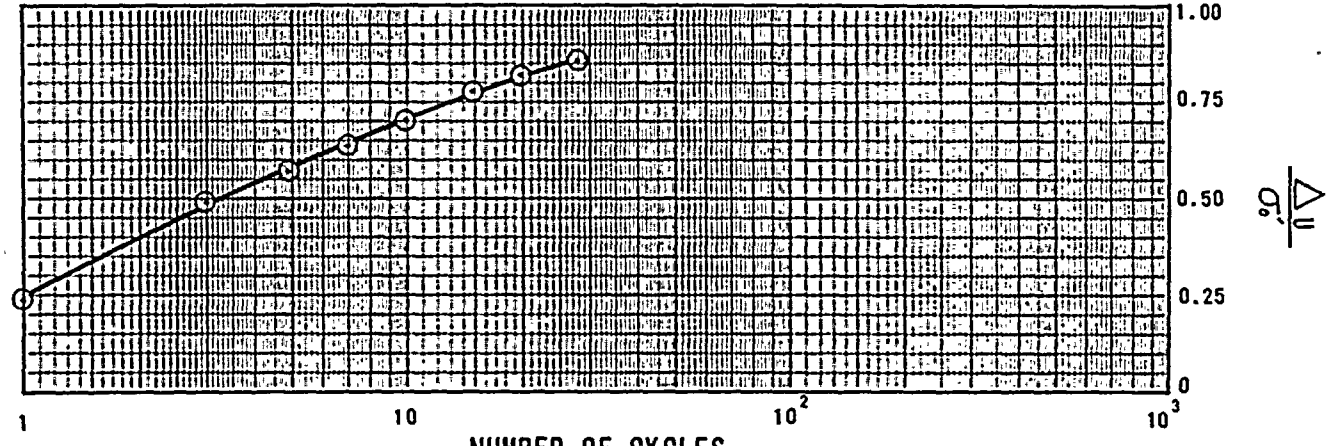


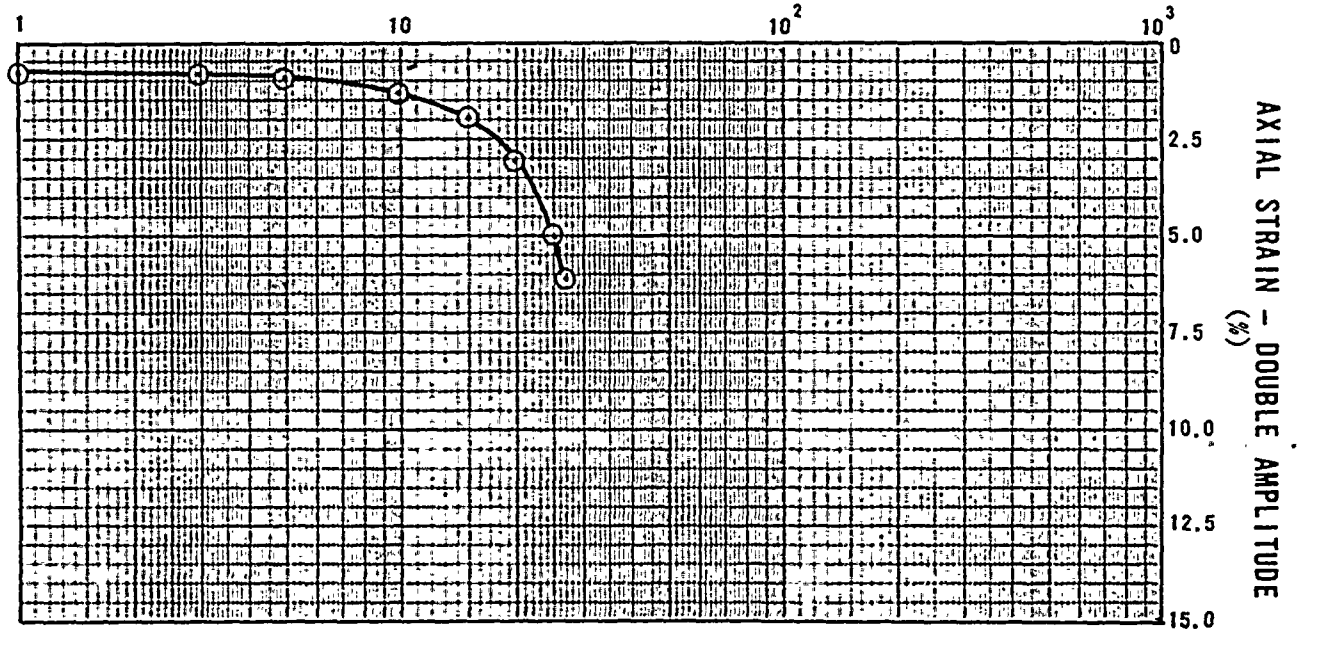
LABORATORY DYNAMIC TEST DATA

2T.21.173

CYCLIC TRIAXIAL LIQUEFACTION TEST RESULTS

BORING NO.	SAMPLE NO.	SAMPLE DEPTH (ft)	σ_o' (PSI)	$\sigma_{dc}/2\sigma_o'$	
PTW-1	6R	25-30	26.0	0.48	



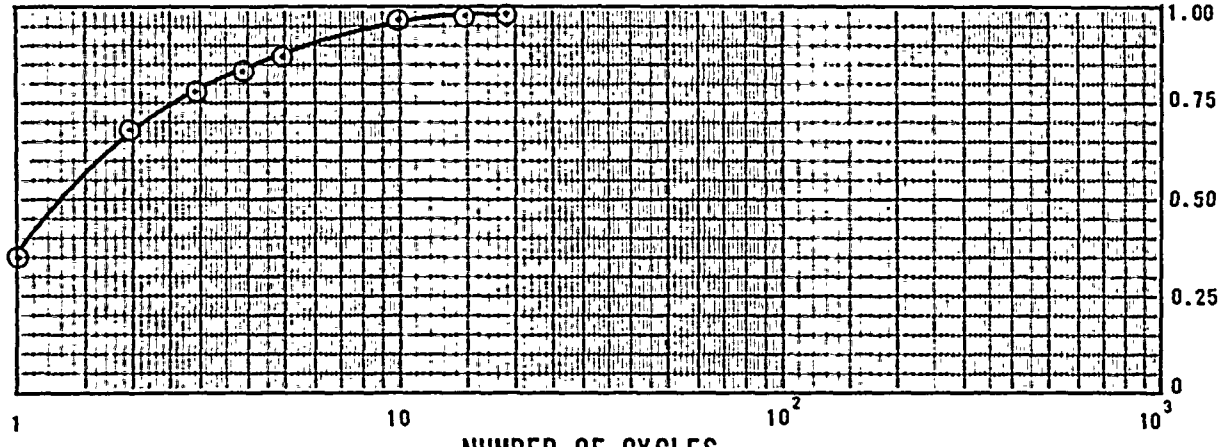


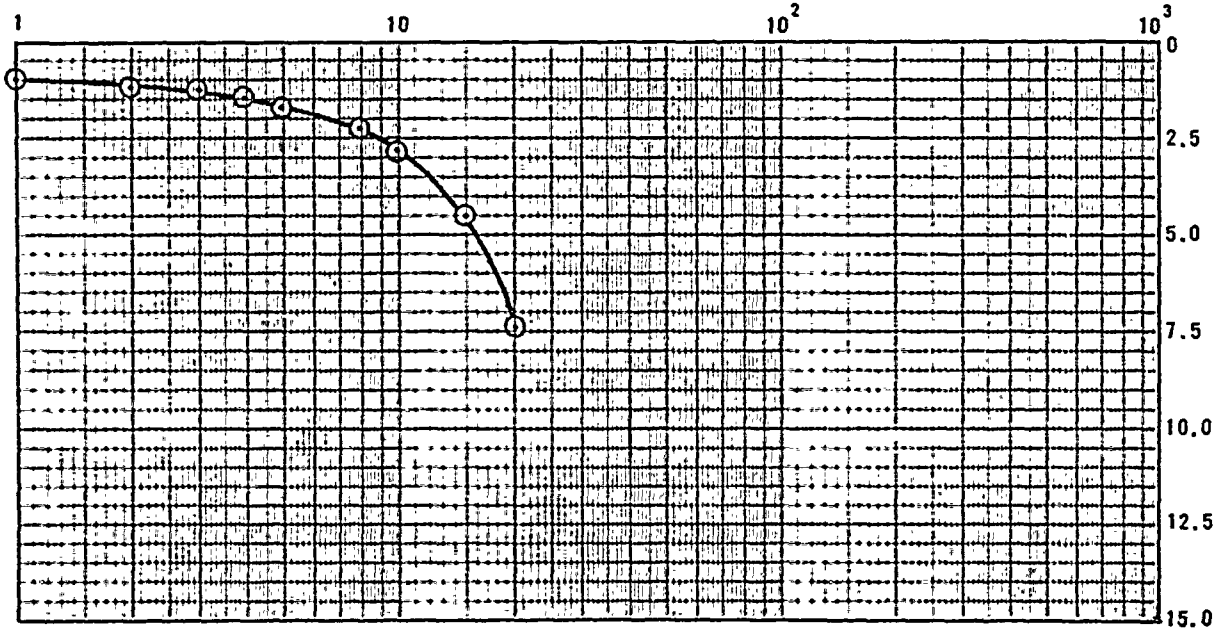
LABORATORY DYNAMIC TEST DATA

2T.21.174

CYCLIC TRIAXIAL LIQUEFACTION TEST RESULTS

BORING NO.	SAMPLE NO.	SAMPLE DEPTH (ft)	σ_o' (PSI)	$\sigma_{dc}/2\sigma_o'$	
PTW-1	8R	30-32.5	26.0	0.45	



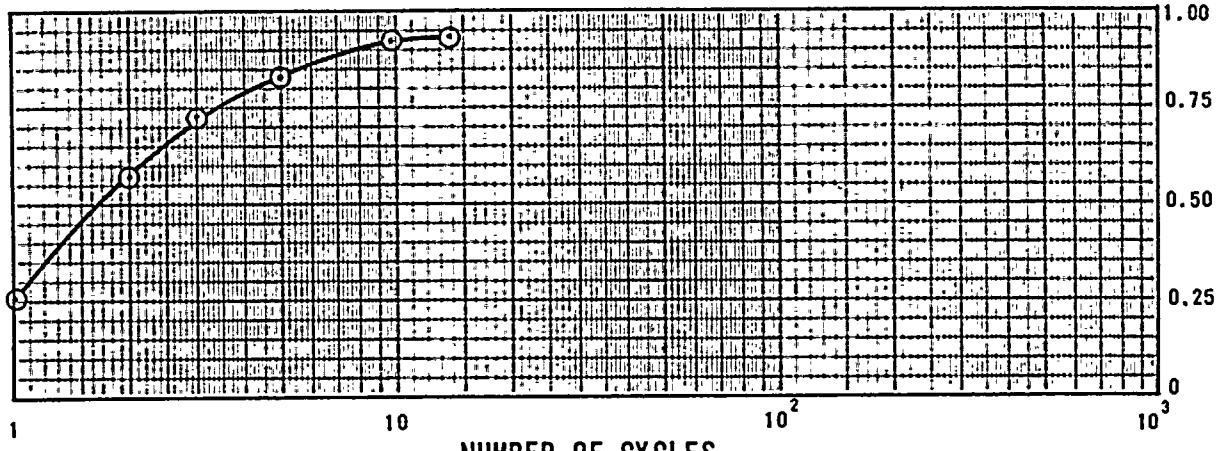


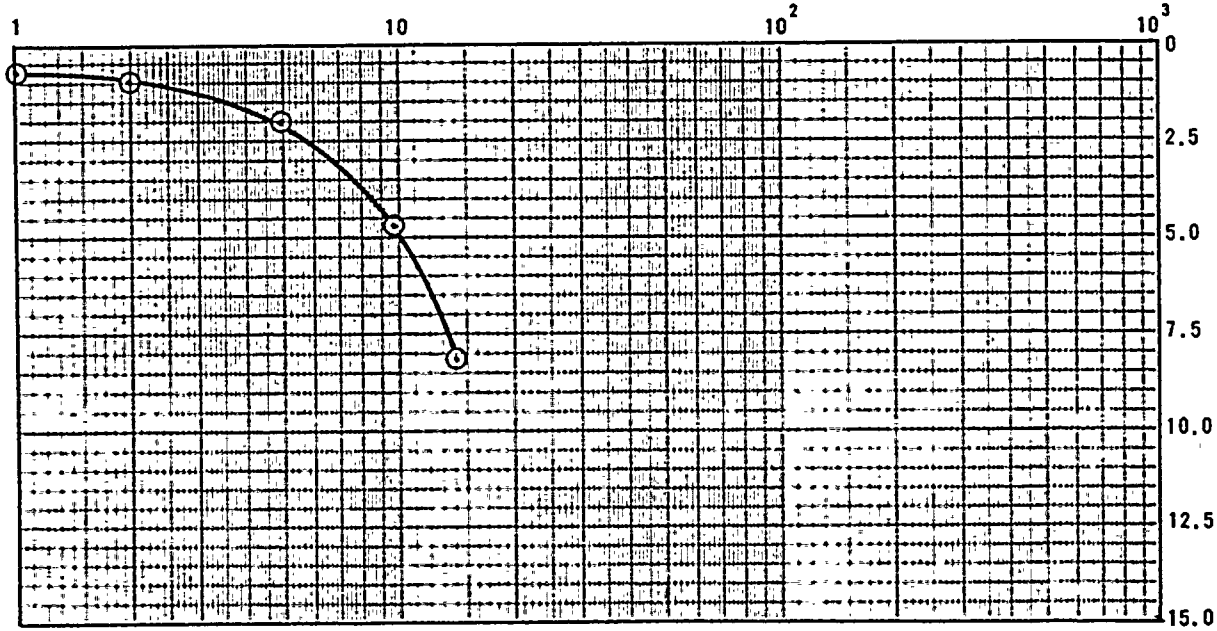
LABORATORY DYNAMIC TEST DATA

2T.21.175

CYCLIC TRIAXIAL LIQUEFACTION TEST RESULTS

BORING NO.	SAMPLE NO.	SAMPLE DEPTH (ft)	σ_o' (PSI)	$\sigma_{dc}/2\sigma_o'$	
U2-LB-1	5A	39.5-40.3	35.0	0.42	

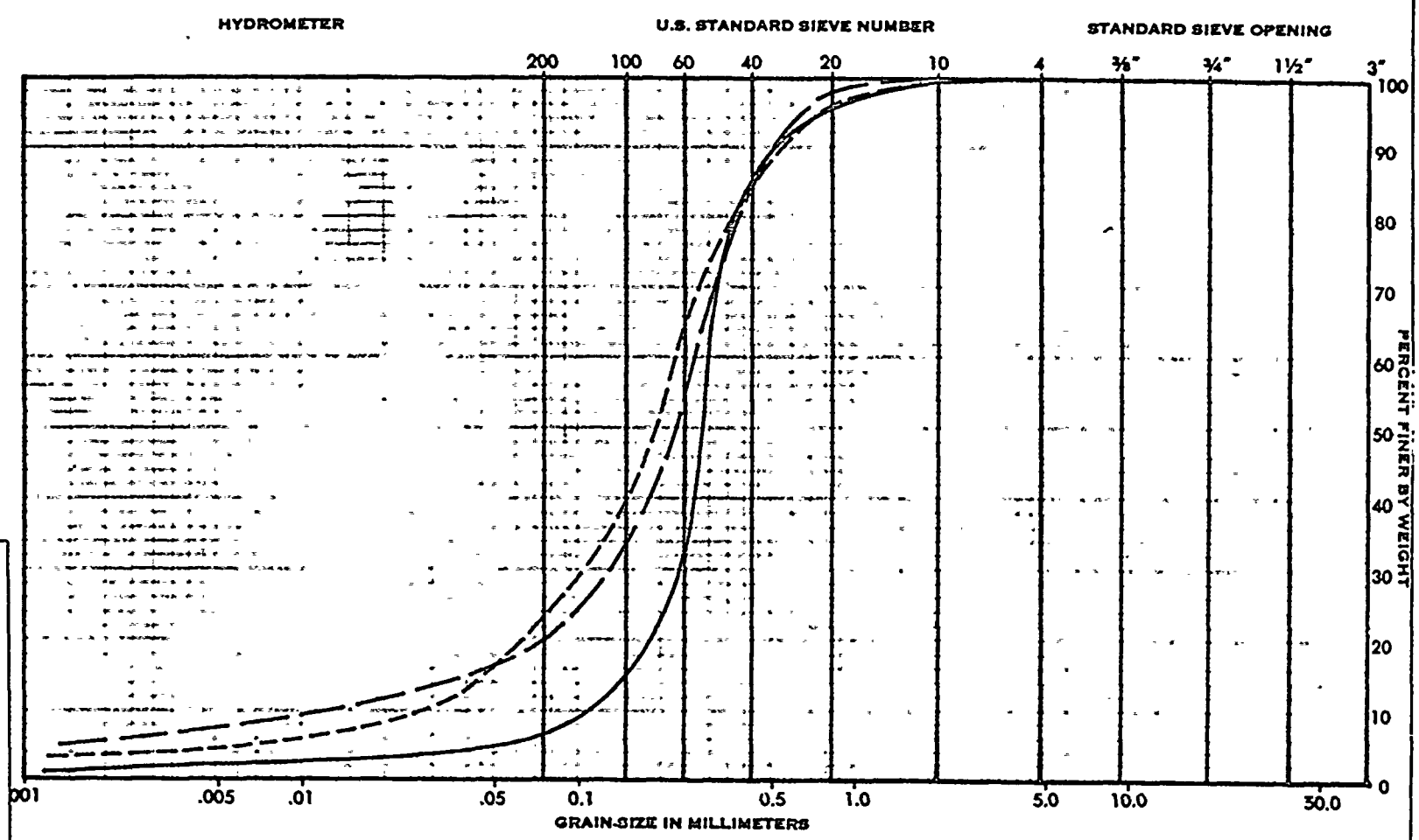




LABORATORY DYNAMIC TEST DATA

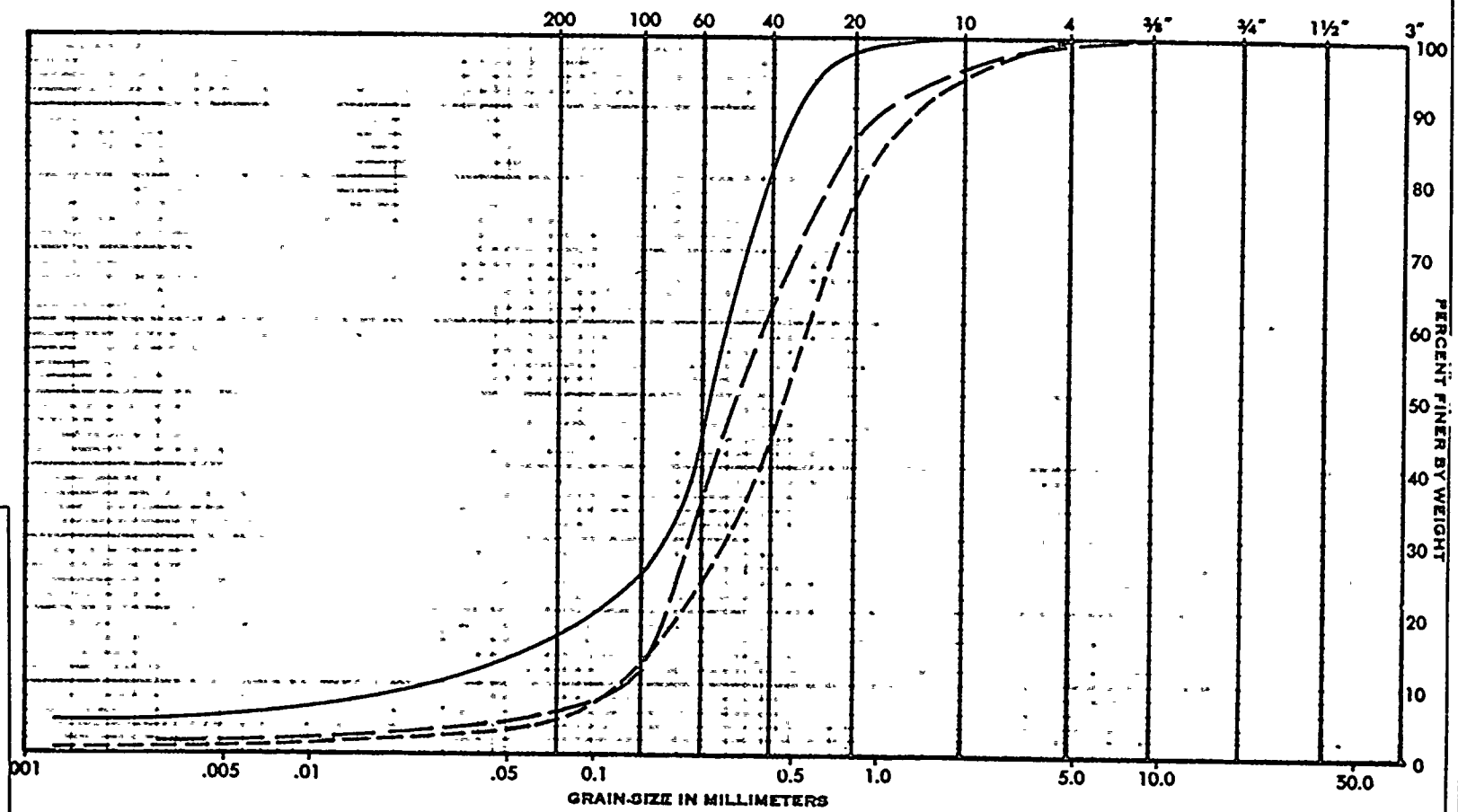
2T.21.176

FUGRO, Inc. PREPARED BY: P. Kramphaibul CHECKED BY: M.D. Adam APPROVED BY: _____ DATE _____



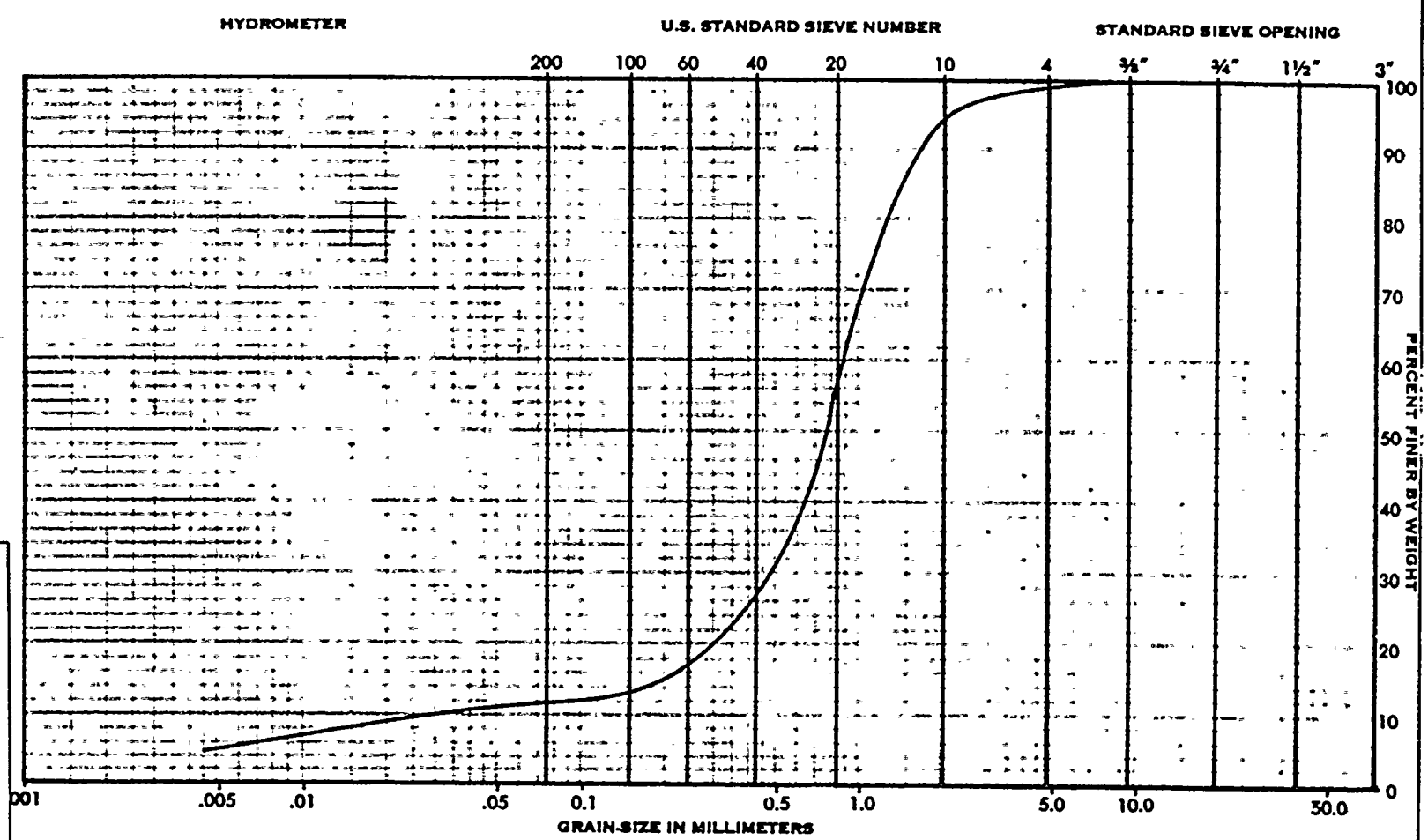
SYMBOL	BORING NUMBER	SAMPLE NUMBER	SAMPLE INTERVAL	LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	SOIL TYPE
———	U3-LB-2	13	34.9-35.8				
— — —	U3-LB-2	15 A&B	35.9-36.7				
— —	U2-LB-1	18A	43-43.8				

FUGRO, Inc. PREPARED BY: P. Krompaibul CHECKED BY: [signature] APPROVED BY: _____ DATE _____



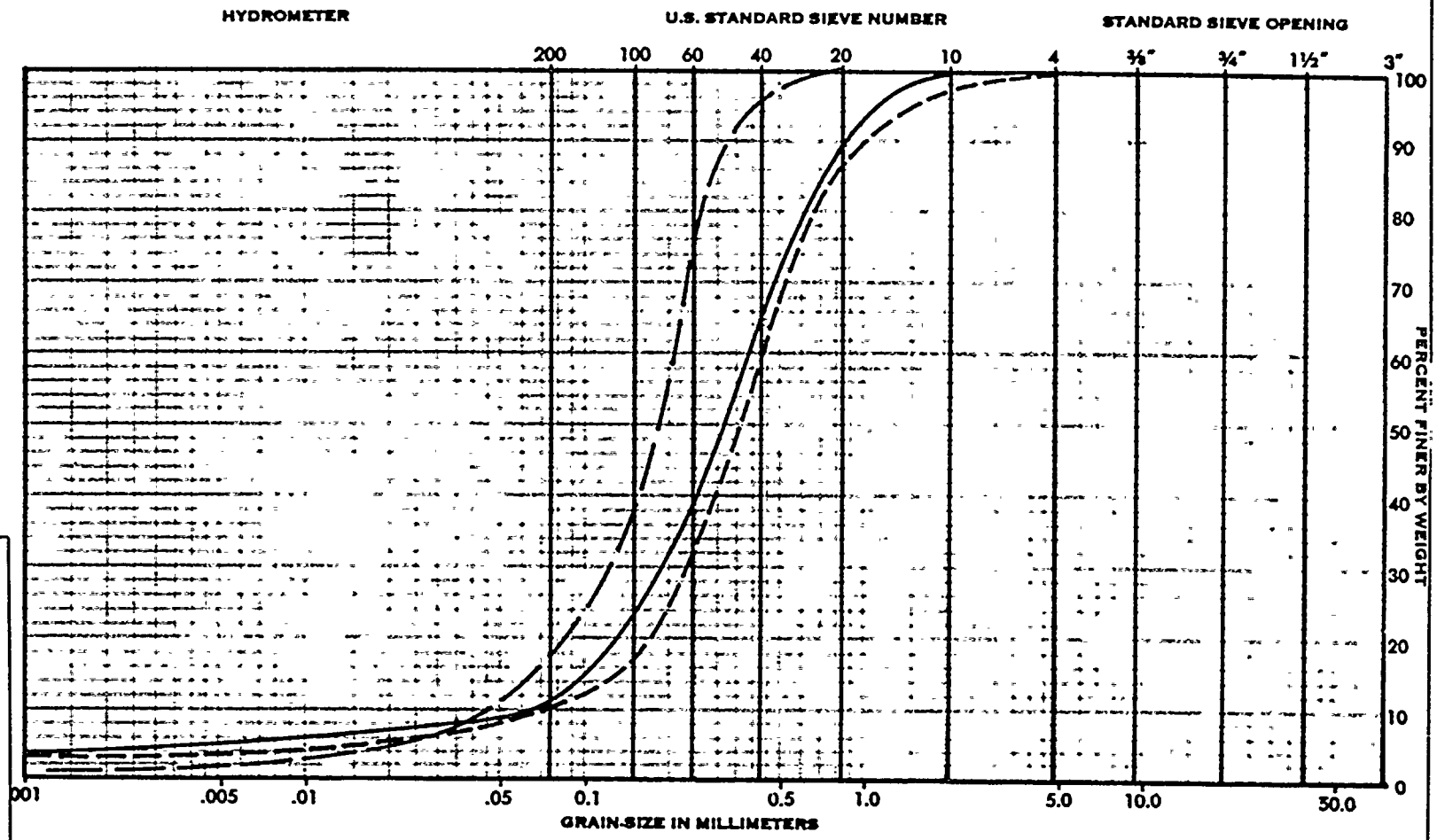
SYMBOL	BORING NUMBER	SAMPLE NUMBER	SAMPLE INTERVAL	LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	SOIL TYPE
———	U2-LB-1	18B	43-43.8				
— — —	U3-LB-2	19C	35.9-36.7				
—— ——	U2-LB-1	20	43.7-44.5				

FUGRO, Inc. PREPARED BY: P. Kamphaibul CHECKED BY: M.D. Peters APPROVED BY: _____ DATE: 4-2-01



SYMBOL	BORING NUMBER	SAMPLE NUMBER	SAMPLE INTERVAL	LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	SOIL TYPE
———	U2-LB-1	24	44.7-45.6				

FUGRO, Inc. PREPARED BY: P. Krompaibul CHECKED BY: [illegible] APPROVED BY: [illegible] DATE: [illegible]



SYMBOL	BORING NUMBER	SAMPLE NUMBER	SAMPLE INTERVAL	LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	SOIL TYPE
———	U3-LB-1	10A	30.7-31.8				
— — —	U3-LB-1	10B	30.7-31.8				
— —	U3-LB-2	12A	34.4-35.0				