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VOLUME II OF II

PILE FRICTION FREEZE: A FIELD AND LABORATORY STUDY

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16. Abstract

The objectives of this research were to measure the increase in pile friction with time for various soil conditions in the laboratory and field. Accordingly, five fully instrumented piles were driven into a variety of soils at four different FDOT bridge sites. The five eighteen-inch square piles were instrumented with strain gauges, lateral total stress cells, and pore pressure sensors along their length, and at their tips were cast Osterberg load cells. This study was the first application of an Osterberg load cell on a prestressed concrete pile to generate ultimate skin friction. In the laboratory, a device was developed to drive a model pile in the centrifuge in flight at 50 gs and then perform a static pull out (tension) test. Also, in the field SPT Torque, piezo CPT, and DMT stage testing was performed to estimate the pile freeze with time.

The centrifuge stage tests showed no increase in pile friction with time.

The field load tests to monitor freeze were performed on the day of driving and then by stage testing and at 3 to 5 times thereafter, with a final test at 77 to 1,727 days. All pile and pile segments showed a general increase in friction with the log of time. All soils, from sands to clays, showed about the same freeze as measured by a normalized shear and time factor, denoted 'A'. Furthermore, 'A' was found approximately the same at all depths to the maximum of 24 m tested. 'A' was also found approximately the same whether measured by redrives the first few days after driving, or by static tests during or after the dissipation of the driving pore pressures. The freeze appeared effective stress dependent during dissipation, but independent afterwards. The SPT-T showed the most promise as a practical precursor test for freeze in cohesive soils, followed by the CPT and DMT. None of these tests showed promise in sands.

17. Key Words	18. Distribution Statement
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SI* (MODERN METRIC) CONVERSION FACTORS

APPROXIMATE CONVERSIONS TO SI UNITS

Symbol	When You Know	Multiply By	To Find	Symbol
	LENGTH			
in	inches	25.4	millimeters	mm
ft	feet	0.305	meters	m
yd	yards	0.914	meters	m
mi	miles	1.61	kilometers	km
	AREA			
in^2	square inches	645.2	square millimeters	mm^2
ft^2	square feet	0.093	square meters	m^2
yd^2	square yards	0.836	square meters	m^2
ac	acres	0.405	hectares	ha
mi^2	square miles	2.59	square kilometers	km^2
	VOLUME			
fl oz	fluid ounces	29.57	milliliters	ml
gal	gallons	3.785	liters	l
ft^3	cubic feet	0.028	cubic meters	m^3
yd^3	cubic yards	0.765	cubic meters	m^3
NOTE: Volumes greater than 1000 l shall be shown in m^3.				
	MASS			
oz	ounces	28.35	grams	g
lb	pounds	0.454	kilograms	kg
T	short tons (2000 lb)	0.907	megagrams	Mg
	TEMPERATURE (exact)			
°F	Fahrenheit temperature	5(F-32)/9 or (F-32)/1.8	Celcius temperature	°C
	ILLUMINATION			
fc	foot-candles	10.76	lux	l
fl	foot-Lamberts	3.426	candela/m^2	cd/m^2
	FORCE and PRESSURE or STRESS			
lbf	poundforce	4.45	newtons	N
psi	poundforce per square inch	6.89	kilopascals	kPa

APPROXIMATE CONVERSIONS FROM SI UNITS

Symbol	When You Know	Multiply By	To Find	Symbol
	LENGTH			
mm	millimeters	0.039	inches	in
m	meters	3.28	feet	ft
m	meters	1.09	yards	yd
km	kilometers	0.621	miles	mi
	AREA			
mm^2	square millimeters	0.0016	square inches	in^2
m^2	square meters	10.764	square feet	ft^2
m^2	square meters	1.195	square yards	yd^2
ha	hectares	2.47	acres	ac
km^2	square kilometers	0.386	square miles	mi^2
	VOLUME			
ml	milliliters	0.034	fluid ounces	fl oz
l	liters	0.264	gallons	gal
m^3	cubic meters	35.71	cubic feet	ft^3
m^3	cubic meters	1.307	cubic yards	yd^3
	MASS			
g	grams	0.035	ounces	oz
kg	kilograms	2.202	pounds	lb
Mg	megagrams	1.103	short tons (2000 lb)	T
	TEMPERATURE (exact)			
°C	Celcius temperature	1.8C + 32	Fahrenheit temperature	°F
	ILLUMINATION			
lx	lux	0.0929	foot-candles	fc
cd/m^2	candela/m^2	0.2919	foot-Lamberts	fl
	FORCE and PRESSURE or STRESS			
N	newtons	0.225	poundforce	lbf
kPa	kilopascals	0.145	poundforce per square inch	psi

* SI is the symbol for the International System of Units. Appropriate rounding should be made to comply with Section 4 of ASTM E380.

(Revised August 1992)

APPENDIX F
TEST PILE STRAIN GAGE MEASUREMENTS

Table F.1 Aucilla and Buckman: Incremental Pile Modulus

Load Site	Test No.	Date Pile Cast mm/dd/yy	Date Load Test mm/dd/yy	Elapsed Time days	Load No.	Pile Modulus, ksi Incremental	Average	Regression
AUC	1	03/14/94	03/31/94	17	L13	4148.0	4347.5	4242.1
AUC	1	03/14/94	03/31/94	17	L14	4107.2		
AUC	1	03/14/94	03/31/94	17	L15	4787.2		
AUC	2	03/14/94	04/02/94	19	L4	4133.0	4192.6	4288.7
AUC	2	03/14/94	04/02/94	19	L5	4271.3		
AUC	2	03/14/94	04/02/94	19	L6	3980.5		
AUC	2	03/14/94	04/02/94	19	L7	4720.4		
AUC	2	03/14/94	04/02/94	19	L8	3851.0		
AUC	2	03/14/94	04/02/94	19	L9	4208.4		
AUC	2	03/14/94	04/02/94	19	L10	3829.4		
AUC	2	03/14/94	04/02/94	19	L11	4460.5		
AUC	2	03/14/94	04/02/94	19	L12	3627.9		
AUC	2	03/14/94	04/02/94	19	L13	4852.1		
AUC	2	03/14/94	04/02/94	19	L14	4183.8		
AUC	3	03/14/94	04/15/94	32	L4	4418.2	4416.4	4457.8
AUC	3	03/14/94	04/15/94	32	L5	4346.4		
AUC	3	03/14/94	04/15/94	32	L6	4374.7		
AUC	3	03/14/94	04/15/94	32	L7	4431.7		
AUC	3	03/14/94	04/15/94	32	L8	4092.5		
AUC	3	03/14/94	04/15/94	32	L9	4359.2		
AUC	3	03/14/94	04/15/94	32	L10	4540.3		
AUC	3	03/14/94	04/15/94	32	L11	4156.8		
AUC	3	03/14/94	04/15/94	32	L12	4777.5		
AUC	3	03/14/94	04/15/94	32	L13	4666.8		
AUC	4	03/14/94	06/03/94	81	2L5	4462.3	4643.6	4618.9
AUC	4	03/14/94	06/03/94	81	2L6	4865.0		
AUC	4	03/14/94	06/03/94	81	2L7	4284.4		
AUC	4	03/14/94	06/03/94	81	2L8	4733.0		
AUC	4	03/14/94	06/03/94	81	2L9	4942.9		
AUC	4	03/14/94	06/03/94	81	2L10	5037.6		
AUC	4	03/14/94	06/03/94	81	2L11	5015.3		
AUC	4	03/14/94	06/03/94	81	2L13	4710.3		
AUC	4	03/14/94	06/03/94	81	2L14	4260.7		
AUC	4	03/14/94	06/03/94	81	2L15	4529.9		
AUC	4	03/14/94	06/03/94	81	2L16	4311.2		
AUC	4	03/14/94	06/03/94	81	2L17	4570.8		

Table F.1 continued

Load Site	Test No.	Date Pile Cast mm/dd/yy	Date Load Test mm/dd/yy	Elapsed Time days	Load No.	Pile Modulus, ksi Incremental	Average	Regression
AUC	5	03/14/94	12/20/94	281	L5	4770.8	4705.2	4697.8
AUC	5	03/14/94	12/20/94	281	L6	4512.6		
AUC	5	03/14/94	12/20/94	281	L7	4782.7		
AUC	5	03/14/94	12/20/94	281	L8	4638.9		
AUC	5	03/14/94	12/20/94	281	L9	4597.1		
AUC	5	03/14/94	12/20/94	281	L10	4579.3		
AUC	5	03/14/94	12/20/94	281	L11	4905.6		
AUC	5	03/14/94	12/20/94	281	L12	4766.4		
AUC	5	03/14/94	12/20/94	281	L13	4793.1		
BKM	1	03/14/94	03/26/94	12	-	-	-	4067.1
BKM	2	03/14/94	03/29/94	15	-	-	-	4184.5
BKM	3	03/14/94	04/11/94	28	L8-L13	4832.5	4832.5	4421.4
BKM	4	03/14/94	05/31/94	78	L9-L14	5123.0	5123.0	4614.7
BKM	5	03/14/94	12/19/94	280	L9-L14	5222.8	5222.8	4697.7

Results of Non-linear Regression:

Modulus,ksi = 4730.5 (Elapsed Time,days) / (1.9573 + Elapsed Time,days), r^2 = 0.874

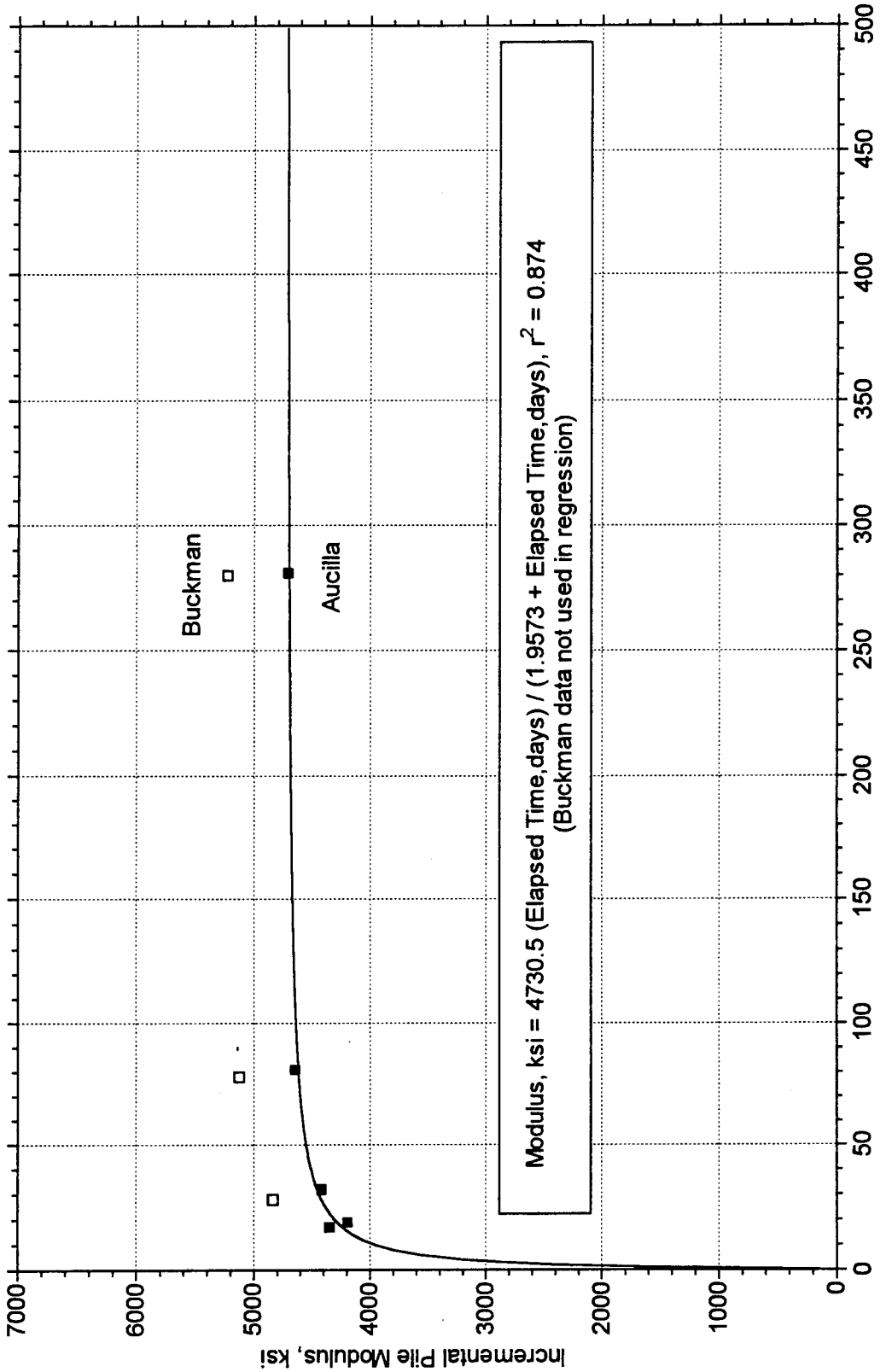

Figure F.1 Aucilla and Buckman: Incremental Pile Modulus

Table F.2 Vilano East and West: Incremental Pile Modulus

Load Site	Test No.	Date Pile Cast mm/dd/yy	Date Load Test mm/dd/yy	Elapsed Time days	Load No.	Pile Modulus, ksi Incremental	Average	Regression
VLE	1	03/22/94	04/14/94	23	L20	4474.5	4363.1	4100.8
VLE	1	03/22/94	04/14/94	23	L21	4956.7		
VLE	1	03/22/94	04/14/94	23	L22	3709.4		
VLE	1	03/22/94	04/14/94	23	L23	5078.1		
VLE	1	03/22/94	04/14/94	23	L24	4407.0		
VLE	1	03/22/94	04/14/94	23	L25	3837.9		
VLE	1	03/22/94	04/14/94	23	L26	5618.6		
VLE	1	03/22/94	04/14/94	23	L27	3829.7		
VLE	1	03/22/94	04/14/94	23	L28	4840.9		
VLE	1	03/22/94	04/14/94	23	L29	3428.2		
VLE	1	03/22/94	04/14/94	23	L34	4355.1		
VLE	1	03/22/94	04/14/94	23	L35	4530.3		
VLE	1	03/22/94	04/14/94	23	L36	3745.4		
VLE	1	03/22/94	04/14/94	23	L37	4271.4		
VLE	2	03/22/94	04/18/94	27	L13	3861.3	4122.0	4281.2
VLE	2	03/22/94	04/18/94	27	L14	4290.2		
VLE	2	03/22/94	04/18/94	27	L15	4611.1		
VLE	2	03/22/94	04/18/94	27	L16	4036.7		
VLE	2	03/22/94	04/18/94	27	L17	4402.1		
VLE	2	03/22/94	04/18/94	27	L18	4191.7		
VLE	2	03/22/94	04/18/94	27	L19	3655.2		
VLE	2	03/22/94	04/18/94	27	L20	4402.2		
VLE	2	03/22/94	04/18/94	27	L21	3955.6		
VLE	2	03/22/94	04/18/94	27	L22	3813.7		
VLE	3	03/22/94	04/30/94	39	L8	4543.1	4550.6	4642.4
VLE	3	03/22/94	04/30/94	39	L9	4676.2		
VLE	3	03/22/94	04/30/94	39	L10	4564.2		
VLE	3	03/22/94	04/30/94	39	L11	4655.0		
VLE	3	03/22/94	04/30/94	39	L12	4584.6		
VLE	3	03/22/94	04/30/94	39	L13	4606.2		
VLE	3	03/22/94	04/30/94	39	L14	4651.7		
VLE	3	03/22/94	04/30/94	39	L15	4627.3		
VLE	3	03/22/94	04/30/94	39	L16	4046.9		

Table F.2 continued

Load Site	Test No.	Date Pile Cast mm/dd/yy	Date Load Test mm/dd/yy	Elapsed Time days	Load No.	Pile Modulus, ksi Incremental	Average	Regression
VLE	4	03/22/94	06/30/94	100	L2	5100.4	5072.1	5250.4
VLE	4	03/22/94	06/30/94	100	L3	5052.4		
VLE	4	03/22/94	06/30/94	100	L4	4965.1		
VLE	4	03/22/94	06/30/94	100	L5	5123.3		
VLE	4	03/22/94	06/30/94	100	L6	4610.8		
VLE	4	03/22/94	06/30/94	100	L7	5210.6		
VLE	4	03/22/94	06/30/94	100	L8	5019.6		
VLE	4	03/22/94	06/30/94	100	L9	5092.3		
VLE	4	03/22/94	06/30/94	100	L10	5474.4		
VLW	1	03/22/94	08/24/94	155	L13	4311.4	4449.4	5411.2
VLW	1	03/22/94	08/24/94	155	L14	4587.3		
VLW	2	03/22/94	08/27/94	158	L4	5492.2	5265.1	5416.9
VLW	2	03/22/94	08/27/94	158	L5	5450.9		
VLW	2	03/22/94	08/27/94	158	L6	5450.8		
VLW	2	03/22/94	08/27/94	158	L7	4881.8		
VLW	2	03/22/94	08/27/94	158	L8	5269.0		
VLW	2	03/22/94	08/27/94	158	L10	4179.0		
VLW	2	03/22/94	08/27/94	158	L11	5708.2		
VLW	2	03/22/94	08/27/94	158	L12	4953.0		
VLW	2	03/22/94	08/27/94	158	L13	6218.3		
VLW	2	03/22/94	08/27/94	158	L14	4727.8		
VLW	2	03/22/94	08/27/94	158	L16	5585.3		

Table F.2 continued

Load Site	Test No.	Date Pile Cast mm/dd/yy	Date Load Test mm/dd/yy	Elapsed Time days	Load No.	Pile Modulus, ksi Incremental	Average	Regression
VLW	3	03/22/94	09/12/94	174	L4	5325.7	5612.9	5444.3
VLW	3	03/22/94	09/12/94	174	L5	5859.7		
VLW	3	03/22/94	09/12/94	174	L6	5318.6		
VLW	3	03/22/94	09/12/94	174	L7	5806.8		
VLW	3	03/22/94	09/12/94	174	L8	5367.5		
VLW	3	03/22/94	09/12/94	174	L9	5381.4		
VLW	3	03/22/94	09/12/94	174	L10	6414.9		
VLW	3	03/22/94	09/12/94	174	L11	4879.0		
VLW	3	03/22/94	09/12/94	174	L12	6089.1		
VLW	3	03/22/94	09/12/94	174	L13	4581.9		
VLW	3	03/22/94	09/12/94	174	L14	6094.2		
VLW	3	03/22/94	09/12/94	174	L15	5458.6		
VLW	3	03/22/94	09/12/94	174	L16	5475.6		
VLW	3	03/22/94	09/12/94	174	L17	6385.4		
VLW	3	03/22/94	09/12/94	174	L18	6071.6		
VLW	3	03/22/94	09/12/94	174	L19	6086.4		
VLW	3	03/22/94	09/12/94	174	L20	4822.0		
VLW	4	03/22/94	01/28/95	312	2L8	5844.9	5723.6	5567.1
VLW	4	03/22/94	01/28/95	312	2L9	5555.0		
VLW	4	03/22/94	01/28/95	312	2L10	5559.6		
VLW	4	03/22/94	01/28/95	312	2L11	6011.8		
VLW	4	03/22/94	01/28/95	312	2L12	5256.9		
VLW	4	03/22/94	01/28/95	312	2L13	6113.1		

Results of Non-linear Regression:

Modulus,ksi = 5730.2 (Elapsed Time,days) / (9.1385 + Elapsed Time,days), r^2 = 0.910

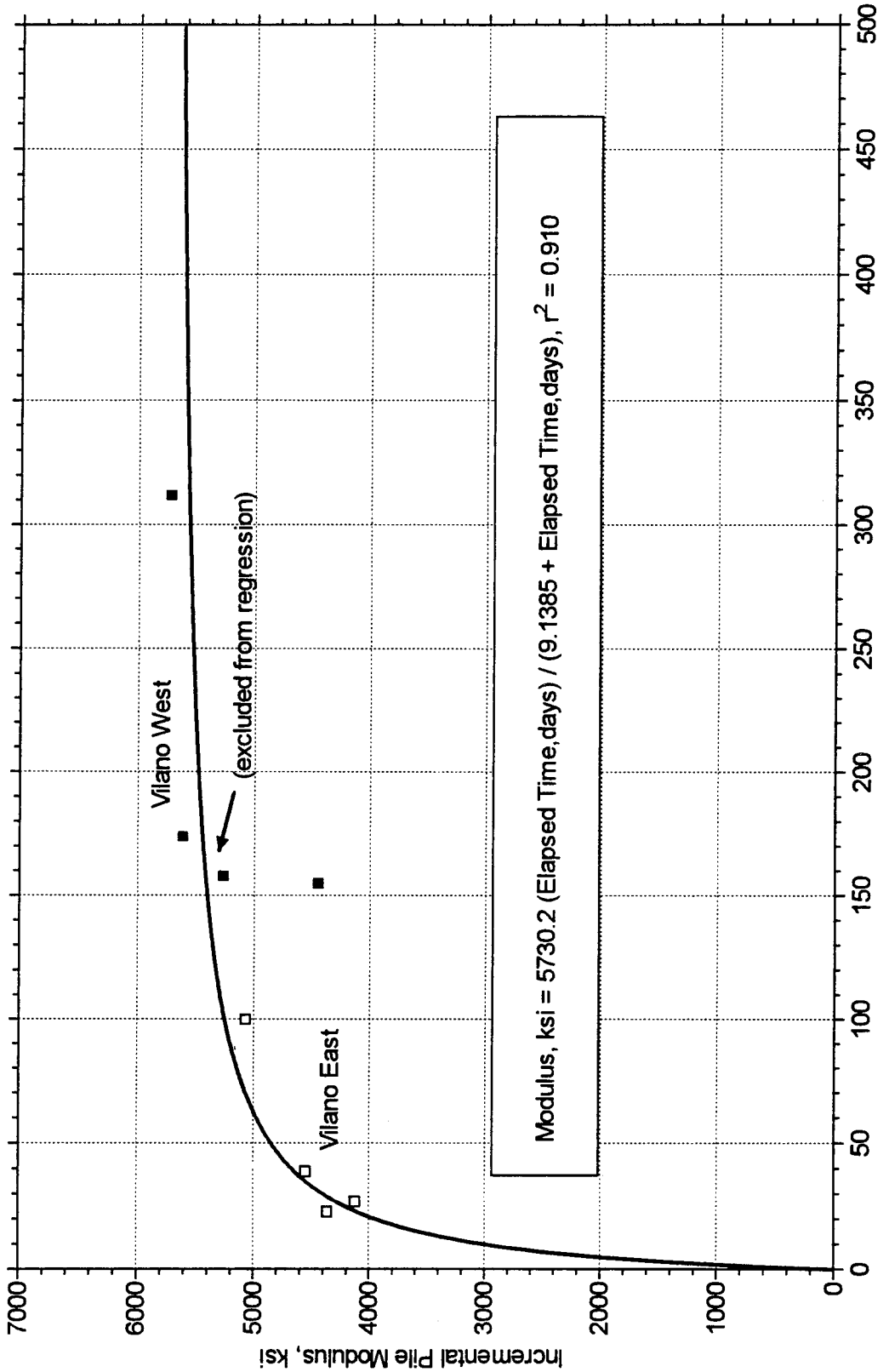

Figure E.2 Vilano East and Vilano West: Incremental Pile Modulus

Table F.3 Seabreeze: Incremental Pile Modulus

Load Site	Test No.	Date Pile Cast mm/dd/yy	Date Load Test mm/dd/yy	Elapsed Time days	Load No.	Pile Modulus, ksi Incremental	Average	Regression
SBZ	1	12/07/95	01/27/96	51	L14	4946.7	4944.1	4893.6
SBZ	1	12/07/95	01/27/96	51	L15	4938.2		
SBZ	1	12/07/95	01/27/96	51	L16	4947.5		
SBZ	2	12/07/95	01/30/96	54	L8	4864.4	4731.2	4939.6
SBZ	2	12/07/95	01/30/96	54	L9	4828.4		
SBZ	2	12/07/95	01/30/96	54	L10	4776.4		
SBZ	2	12/07/95	01/30/96	54	L11	4740.8		
SBZ	2	12/07/95	01/30/96	54	L12	4708.2		
SBZ	2	12/07/95	01/30/96	54	L13	4692.8		
SBZ	2	12/07/95	01/30/96	54	L14	4644.9		
SBZ	2	12/07/95	01/30/96	54	L15	4593.6		
SBZ	3	12/07/95	02/13/96	68	L4	5338.1	5285.9	5107.8
SBZ	3	12/07/95	02/13/96	68	L5	5308.5		
SBZ	3	12/07/95	02/13/96	68	L6	5286.6		
SBZ	3	12/07/95	02/13/96	68	L7	5241.1		
SBZ	3	12/07/95	02/13/96	68	L8	5100.5		
SBZ	3	12/07/95	02/13/96	68	L9	5130.9		
SBZ	3	12/07/95	02/13/96	68	L10	5485.7		
SBZ	3	12/07/95	02/13/96	68	L11	5395.6		
SBZ	4	12/07/95	04/05/96	120	L5	5483.3	5443.9	5416.0
SBZ	4	12/07/95	04/05/96	120	L6	5549.9		
SBZ	4	12/07/95	04/05/96	120	L7	5359.3		
SBZ	4	12/07/95	04/05/96	120	L8	5636.8		
SBZ	4	12/07/95	04/05/96	120	L9	5198.2		
SBZ	4	12/07/95	04/05/96	120	L10	5799.5		
SBZ	4	12/07/95	04/05/96	120	L11	5249.1		
SBZ	4	12/07/95	04/05/96	120	L12	5283.2		
SBZ	4	12/07/95	04/05/96	120	L13	5121.9		
SBZ	4	12/07/95	04/05/96	120	L14	5789.9		
SBZ	4	12/07/95	04/05/96	120	L15	5412.1		

Table F.3 continued

Load Site	Test No.	Date Pile Cast mm/dd/yy	Date Load Test mm/dd/yy	Elapsed Time days	Load No.	Pile Modulus, ksi Incremental	Average	Regression
SBZ	5	12/07/95	11/14/96	343	L6	5807.1	5660.3	5708.9
SBZ	5	12/07/95	11/14/96	343	L7	5502.7		
SBZ	5	12/07/95	11/14/96	343	L8	5575.4		
SBZ	5	12/07/95	11/14/96	343	L9	5627.8		
SBZ	5	12/07/95	11/14/96	343	L10	5585.4		
SBZ	5	12/07/95	11/14/96	343	L11	5715.7		
SBZ	5	12/07/95	11/14/96	343	L12	5621.8		
SBZ	5	12/07/95	11/14/96	343	L13	5247.6		
SBZ	5	12/07/95	11/14/96	343	L14	5920.9		
SBZ	5	12/07/95	11/14/96	343	L15	5941.1		
SBZ	5	12/07/95	11/14/96	343	L16	5717.6		

Results of Non-linear Regression:

Modulus,ksi = 5880.0 (Elapsed Time,days)/(10.280 + Elapsed Time,days), r^2 = 0.856

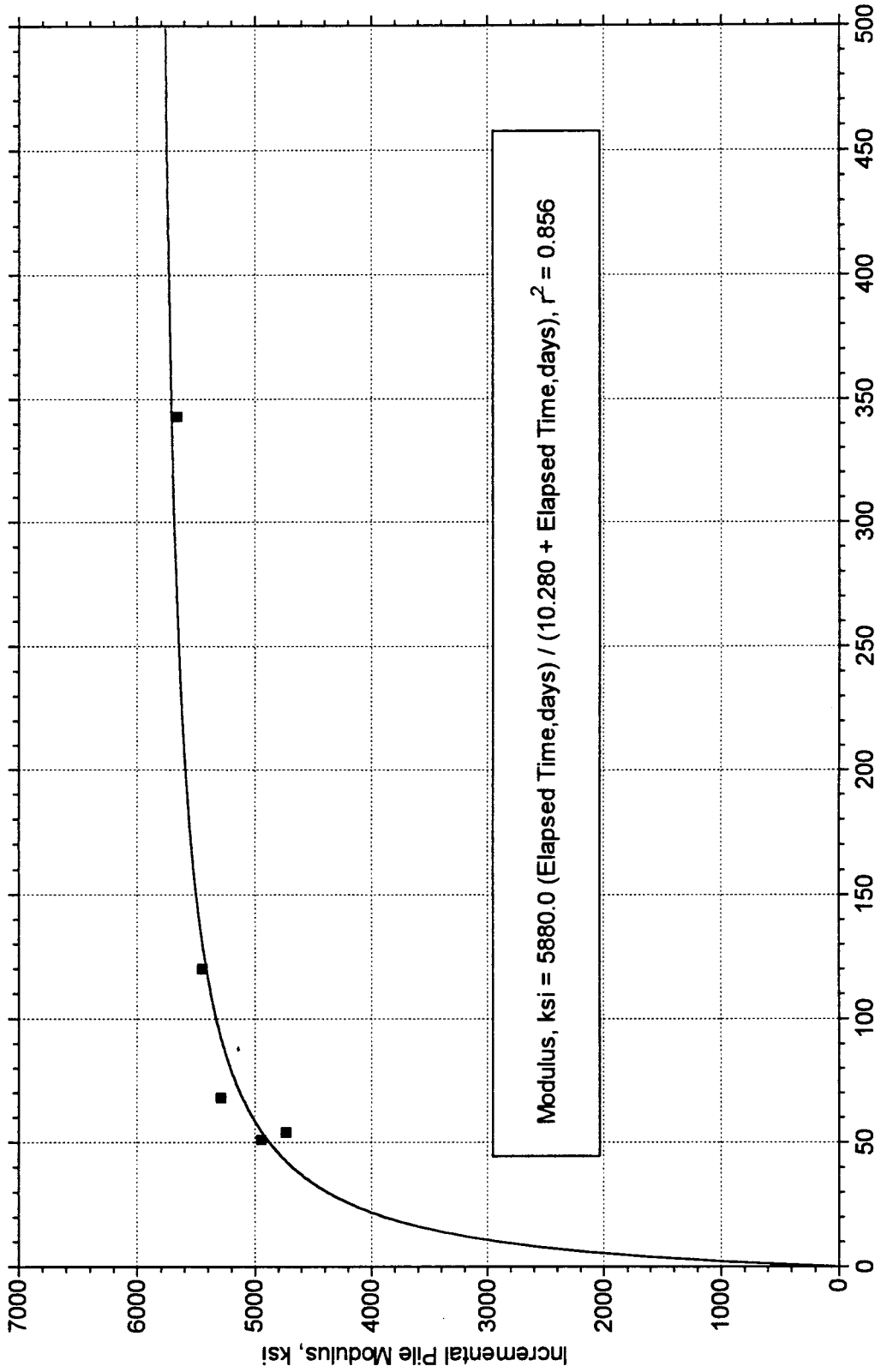

Figure F.3 Seabreeze: Incremental Pile Modulus

Table F.4 Maximum Side Shear by Pile Segment: Buckman

Segment C.L. Elev. MSL (& Length)	Load Test No.	Elapsed Time Since EOD days	Load No.	Average Unit Side Shear R,tsf	Q/Q0 (T0 = 1day)	Average Segment Movement inches	Effective Stress tsf
	1	0.25	2L6ii	0.058	0.91	0.579	
+11.20 FT	2	3.13	L11	0.012	0.19	0.690	
(L = 6.05 FT)	3	15.91	L14A	0.076	1.19	0.385	
Q0 = 0.064 tsf	4	65.97	L14A	0.092	1.43	0.345	
	5	267.96	L17	0.132	2.05	0.220	
	1	0.25	2L6i	0.047	0.85	0.399	
+5.17 FT	2	3.13	L11	0.002	0.03	0.690	
(L = 6.00 FT)	3	15.91	L13	0.073	1.30	0.040	
Q0 = 0.056 tsf	4	65.97	L13	0.169	3.03	0.050	
	5	267.96	L17A	0.221	3.97	0.551	
	1	0.25	2L6B	0.001	0.17	0.739	0.051
-0.83 FT	2	3.13	L11C	0.004	0.75	0.730	0.029
(L = 6.00 FT)	3	15.91	L14	0.013	2.65	0.311	0.011
Q0 = 0.005 tsf	4	65.97	L14A	0.039	7.68	0.346	0.004
	5	267.96	L14	0.057	11.33	0.051	0.027
	1	0.25	2L3	0.007	1.38	0.000	0.086
-6.33 FT	2	3.13	L10	-0.000	-0.07	0.170	0.097
(L = 5.00 FT)	3	15.91	L11	0.001	0.24	0.021	0.118
Q0 = 0.005 tsf	4	65.97	L14	0.035	7.11	0.152	0.147
	5	267.96	L13	0.050	10.00	0.042	0.165
	1	0.25	2L6i	0.039	0.80	0.401	0.115
-11.58 FT	2	3.13	L10	0.057	1.17	0.170	0.090
(L = 5.50 FT)	3	15.91	L13	0.119	2.45	0.042	0.063
Q0 = 0.048 tsf	4	65.97	L14	0.159	3.29	0.153	0.076
	5	267.96	L17	0.118	2.43	0.225	0.093

Notes: Unit Side Shear has been reduced by segment weight.
Q0 found by log-linear interpolation. LT2 values low due to reload effects.
Unit Side Shear is maximum measured during each load test.

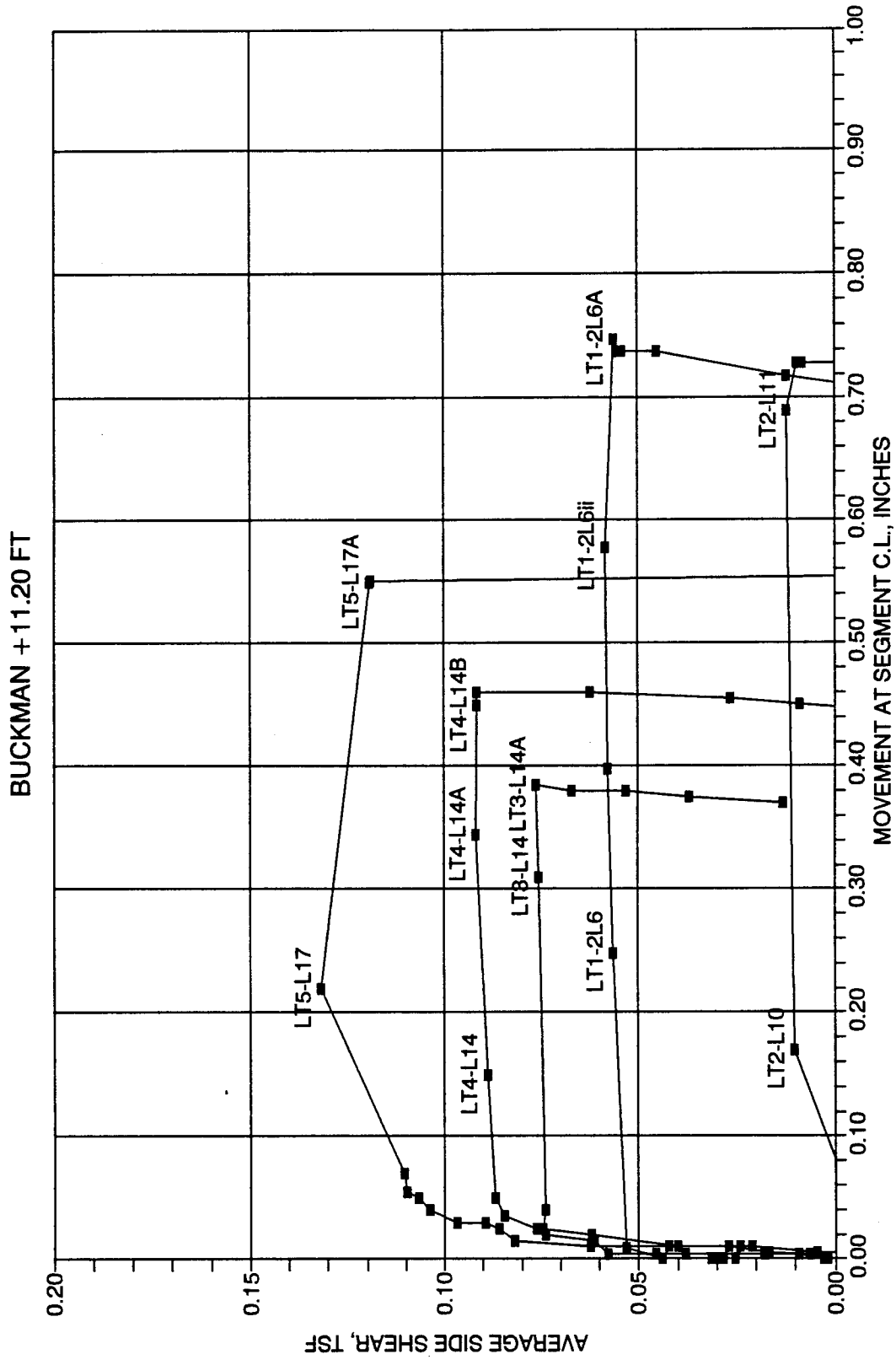

Figure F.4 Buckman: Side Shear at Elev. +11.20 ft

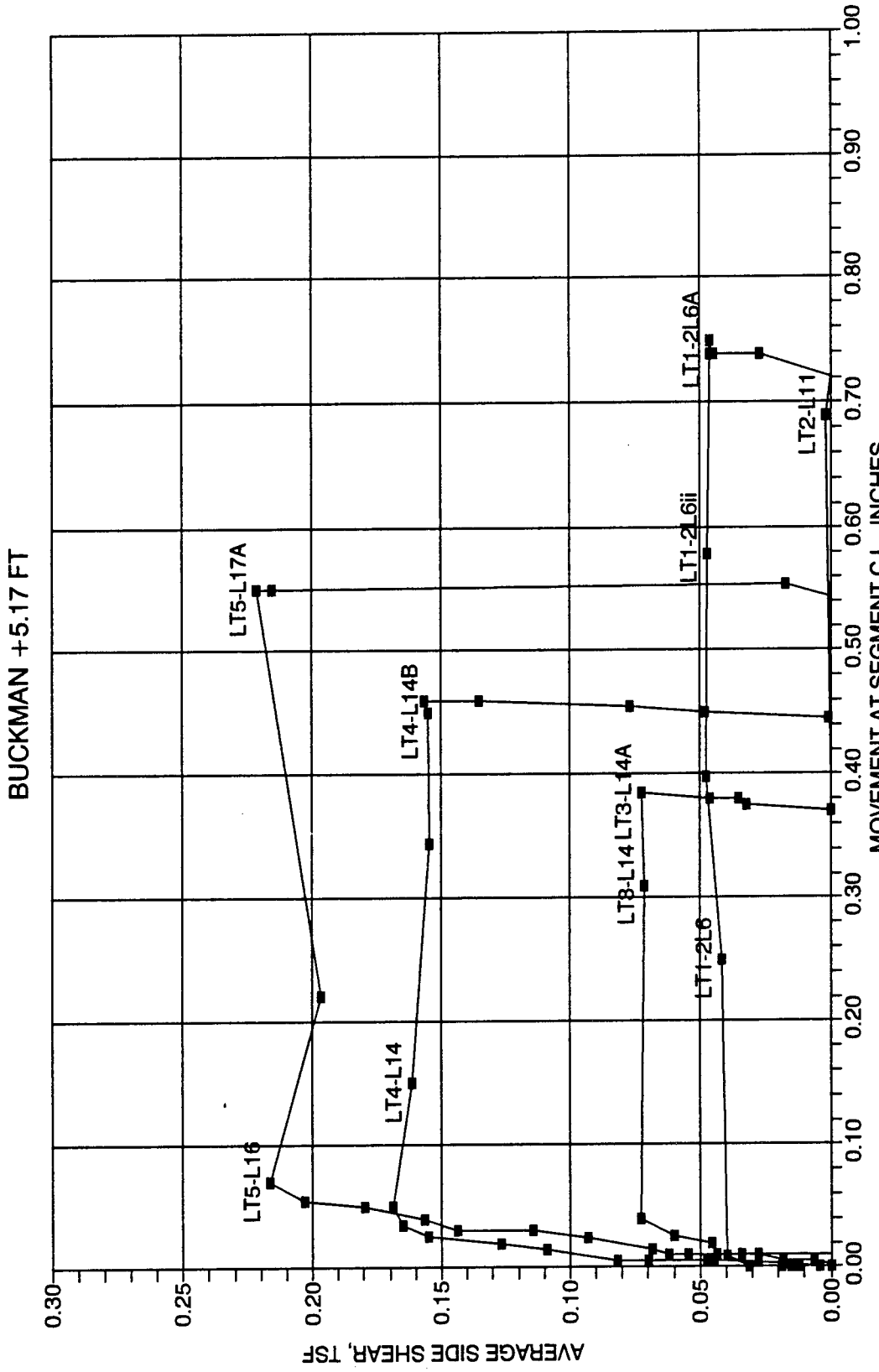

Figure F.5 Buckman: Side Shear at Elev. +5.17 ft

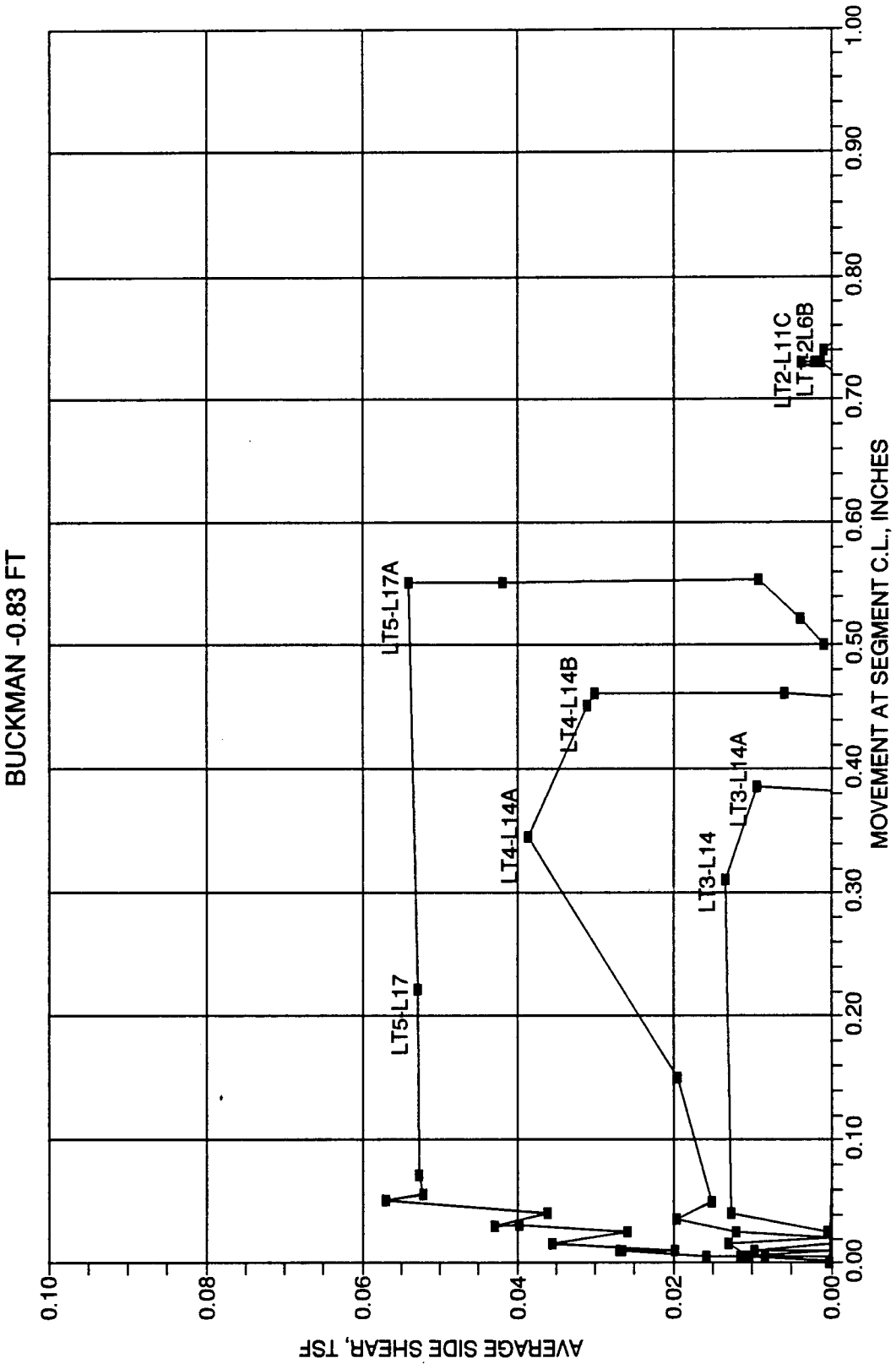

Figure F.6 Buckman: Side Shear at Elev. -0.83 ft

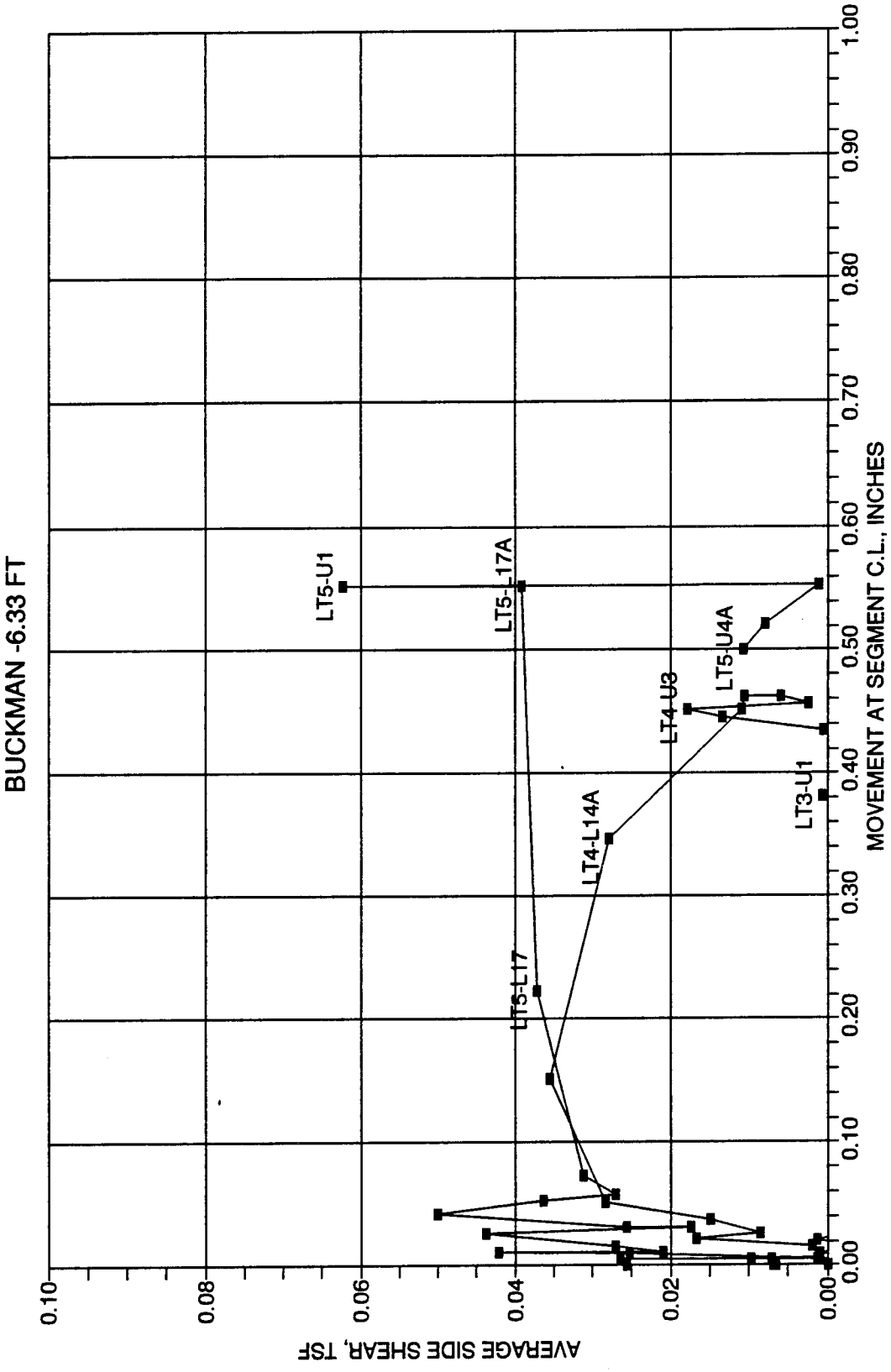

Figure F.7 Buckman: Side Shear at Elev. -6.33 ft

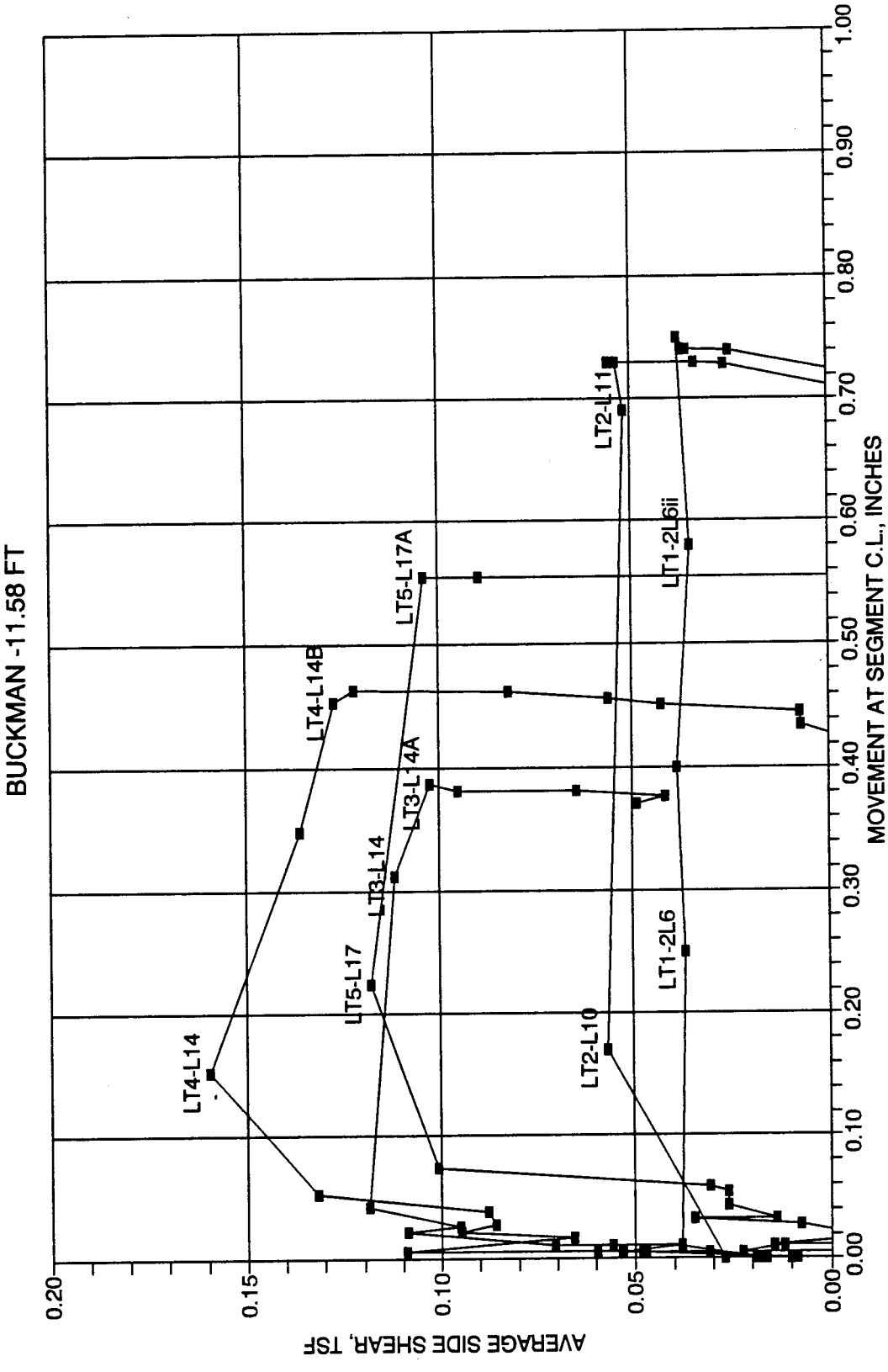

Figure F.8 Buckman: Side Shear at Elev. -11.58 ft

Table F.5 Maximum Side Shear by Pile Segment: Aucilla

Segment C.L. Elev. MSL (& Length)	Load Test No.	Elapsed Time Since EOD days	Load No.	Average Unit Side Shear R,tsf	Q/Q0 (T0 = 1day)	Average Segment Movement inches	Effective Stress tsf
	1	0.98	L23	0.090	1.00	0.636	
+48.23 ft	2	2.97	L24B	0.067	0.75	0.679	
(L = 9.96 ft)	3	16.10	L17	0.066	0.73	0.434	
Q0 = 0.090 tsf	4	65.10	2L19A	0.099	1.10	0.383	
	5	265.05	L20	0.128	1.42	0.382	
	6	1727.08	L19	0.091	1.01	0.098	
	1	0.98	L23	0.232	1.00	0.637	0.539
+39.25 ft	2	2.97	L24A	0.229	0.98	0.682	0.574
(L = 8.00 ft)	3	16.10	L17	0.305	1.31	0.435	0.688
Q0 = 0.232 tsf	4	65.10	2L19A	0.337	1.45	0.384	1.002
	5	265.05	L20	0.514	2.21	0.384	1.302
	6	1727.08	L22	0.484	2.08	0.459	1.711
	1	0.98	L21	0.187	1.00	0.068	
+31.75 ft	2	2.97	L21	0.217	1.16	0.059	
(L = 7.00 ft)	3	16.10	L16	0.285	1.52	0.132	
Q0 = 0.187 tsf	4	65.10	2L17	0.316	1.69	0.077	
	5	265.05	L19	0.383	2.04	0.168	
	6	1727.08	L19	0.398	2.13	0.102	
	1	0.98	L20	0.104	1.00	0.055	0.142
+25.00 ft	2	2.97	L20	0.121	1.16	0.046	0.133
(L = 6.50 ft)	3	16.10	L15	0.146	1.41	0.055	0.139
Q0 = 0.104 tsf	4	65.10	2L18	0.218	2.10	0.156	0.233
	5	265.05	L18	0.208	2.00	0.067	0.214
	6	1727.08	L20	0.250	2.41	0.202	
	1	0.98	L22	0.357	1.00	0.190	1.194
+16.75 ft	2	2.97	L23	0.498	1.40	0.641	1.720
(L = 10.00 ft)	3	16.10	L16	0.495	1.39	0.143	1.612
Q0 = 0.357 tsf	4	65.10	2L17	0.556	1.56	0.088	1.655
	5	265.05	L19	0.557	1.56	0.182	
	6	1727.08	L19	0.629	1.76	0.116	
	1	0.98	L22	0.133	1.00	0.198	0.821
+7.25 ft	2	2.97	L24A	0.256	1.93	0.702	0.813
(L = 9.00 ft)	3	16.10	L17	0.449	3.39	0.459	1.040
Q0 = 0.133 tsf	4	65.10	2L18	0.563	4.25	0.176	1.005
	5	265.05	L20	0.599	4.52	0.417	1.306
	6	1727.08	L22	0.804	6.06	0.491	1.241
	1	0.98	L22	0.223	1.00	0.204	
+1.25 ft	2	2.97	L23	0.319	1.43	0.658	
(L = 3.00 ft)	3	16.10	L17	0.472	2.12	0.468	
Q0 = 0.223 tsf	4	65.10	2L19	0.554	2.49	0.317	
	5	265.05	L19	0.553	2.48	0.208	
	6	1727.08	L20	0.848	3.81	0.237	
	1	0.98	L22	0.879	1.00	0.211	1.310
-4.25 ft	2	2.97	L24A	1.082	1.23	0.718	1.365
(L = 8.00 ft)	3	16.10	L17	1.194	1.36	0.479	1.317
Q0 = 0.879 tsf	4	65.10	2L19	1.075	1.22	0.329	1.256
	5	265.05	L20	1.143	1.30	0.443	1.321
	6	1727.08	L22	1.420	1.61	0.519	1.490

Notes: Unit Side Shear is maximum measured during each load test and has been reduced by segment weight. Q0 taken from LT1.

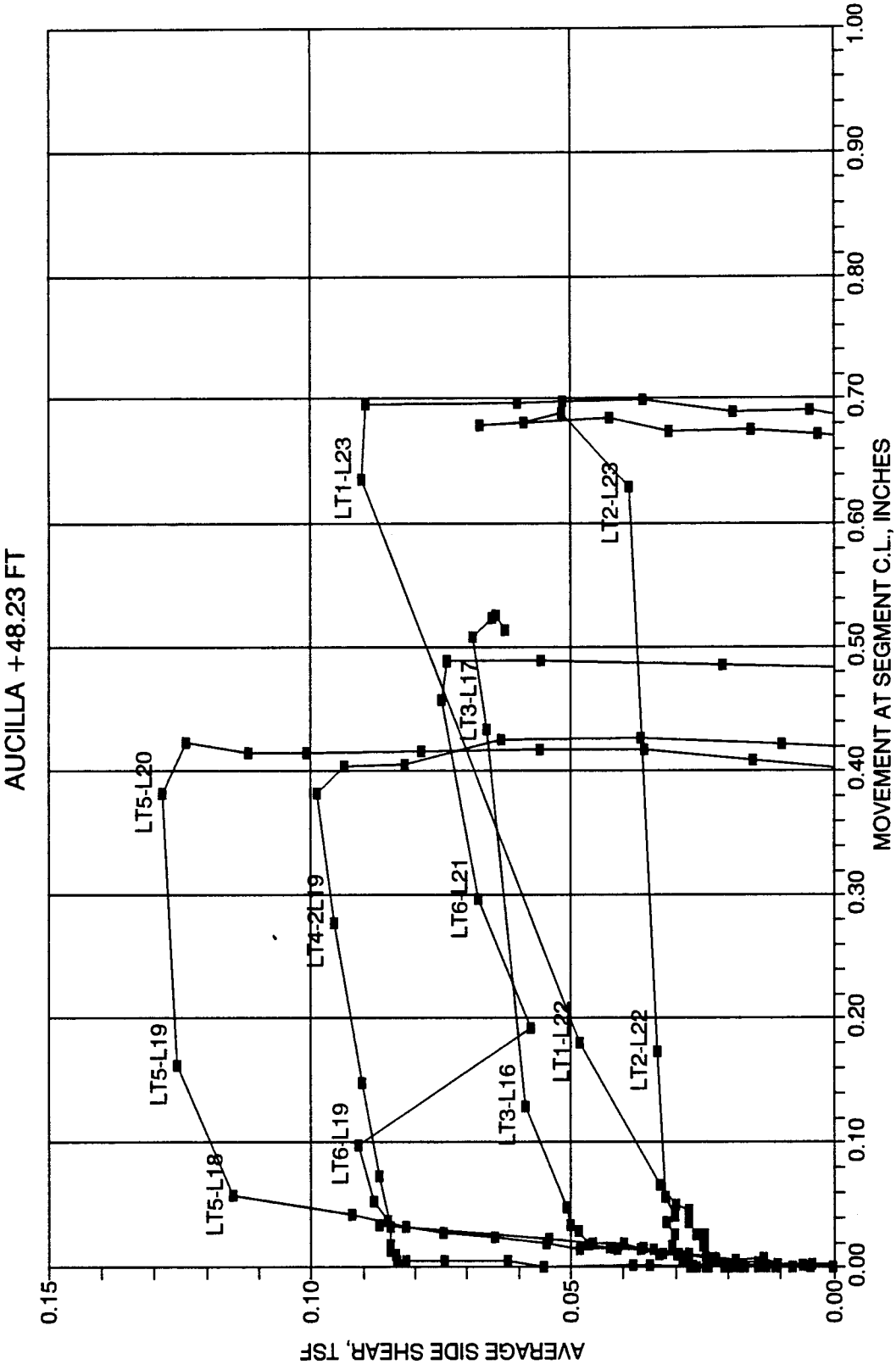

Figure F.9 Aucilla: Side Shear at Elev. +48.23 ft

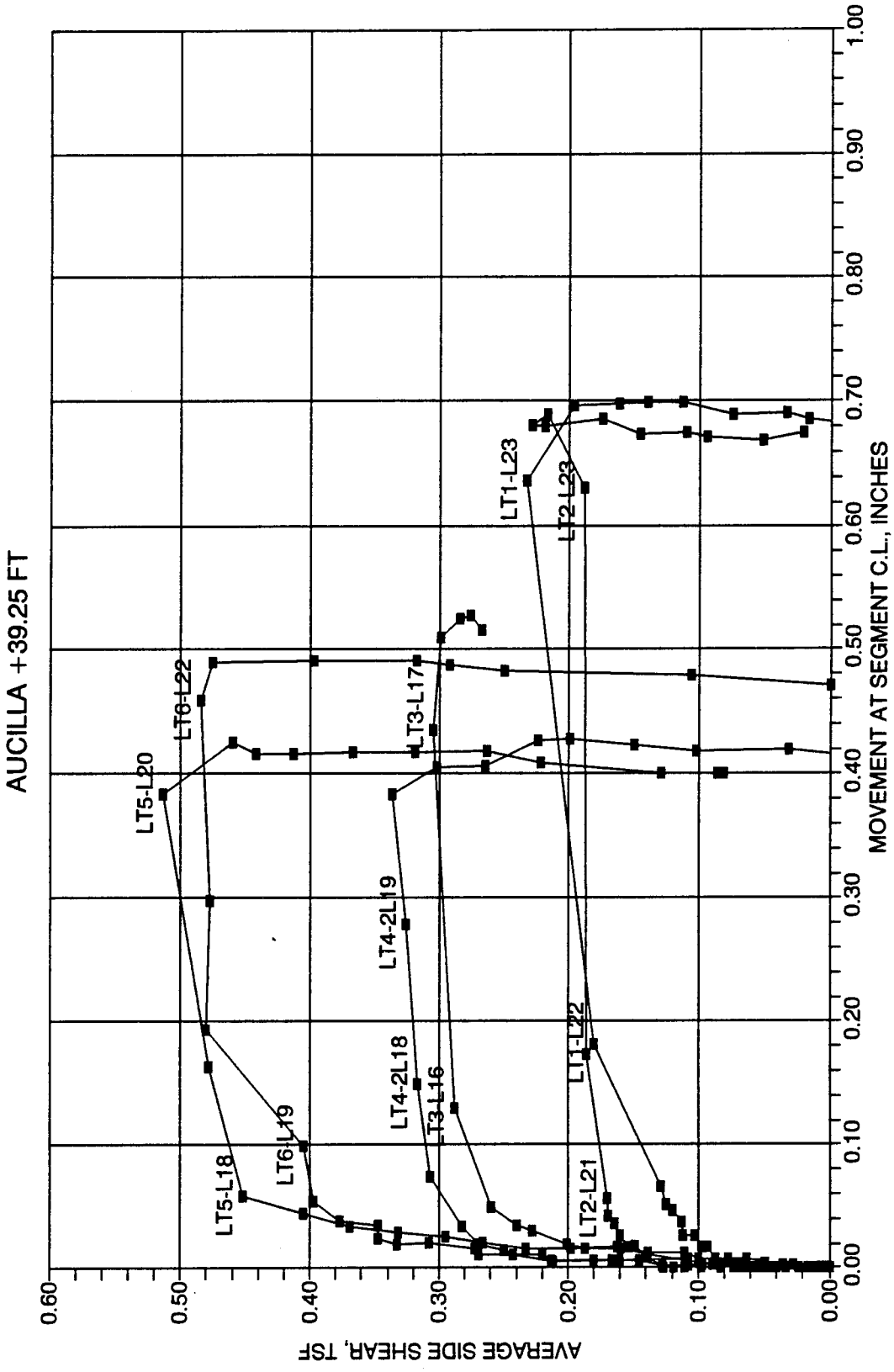

Figure F.10 Aucilla: Side Shear at Elev. +39.25 ft

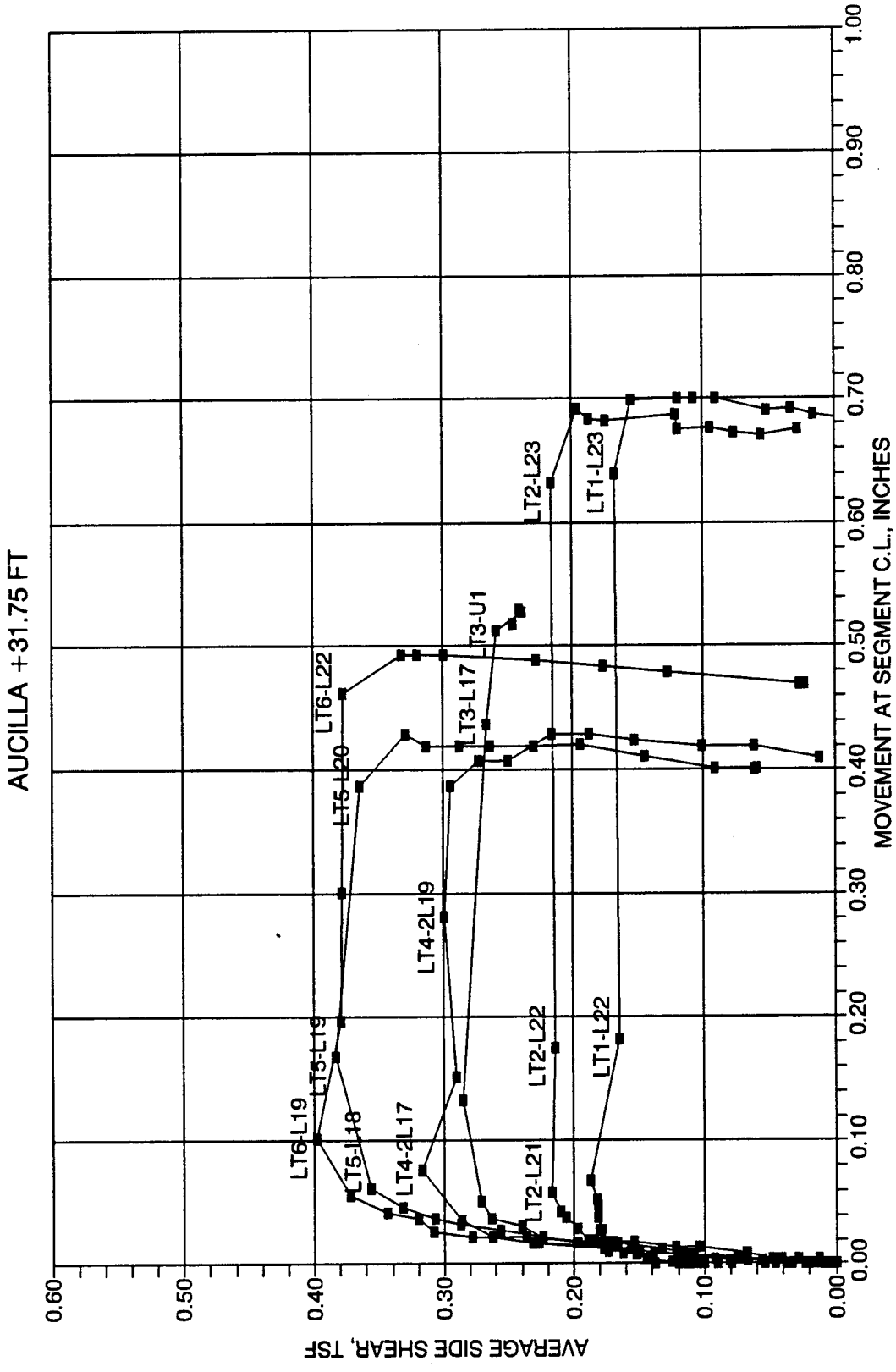

Figure F.11 Aucilla: Side Shear at Elev. +31.75 ft

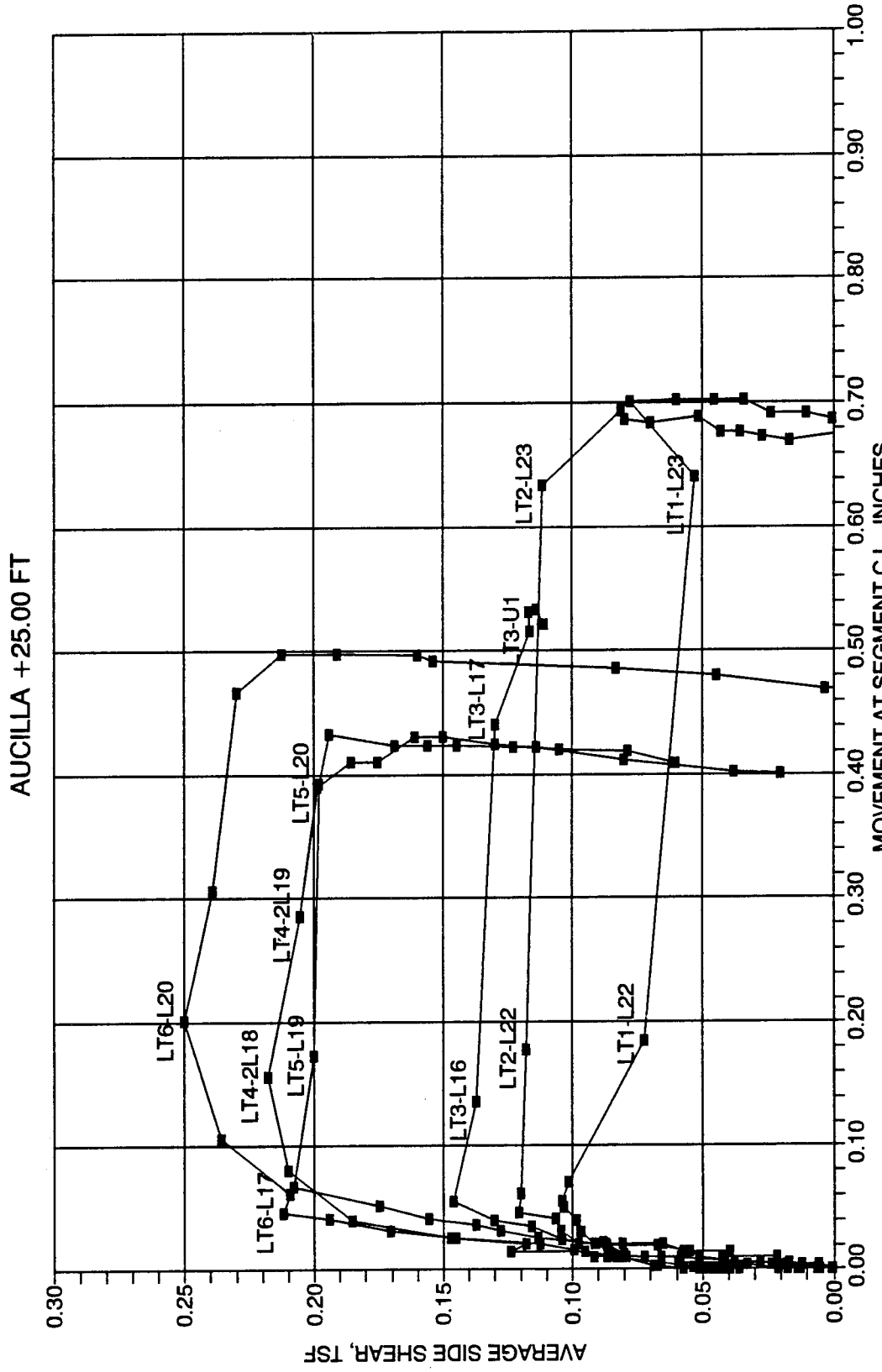

Figure F.12 Aucilla: Side Shear at Elev. +25.00 ft

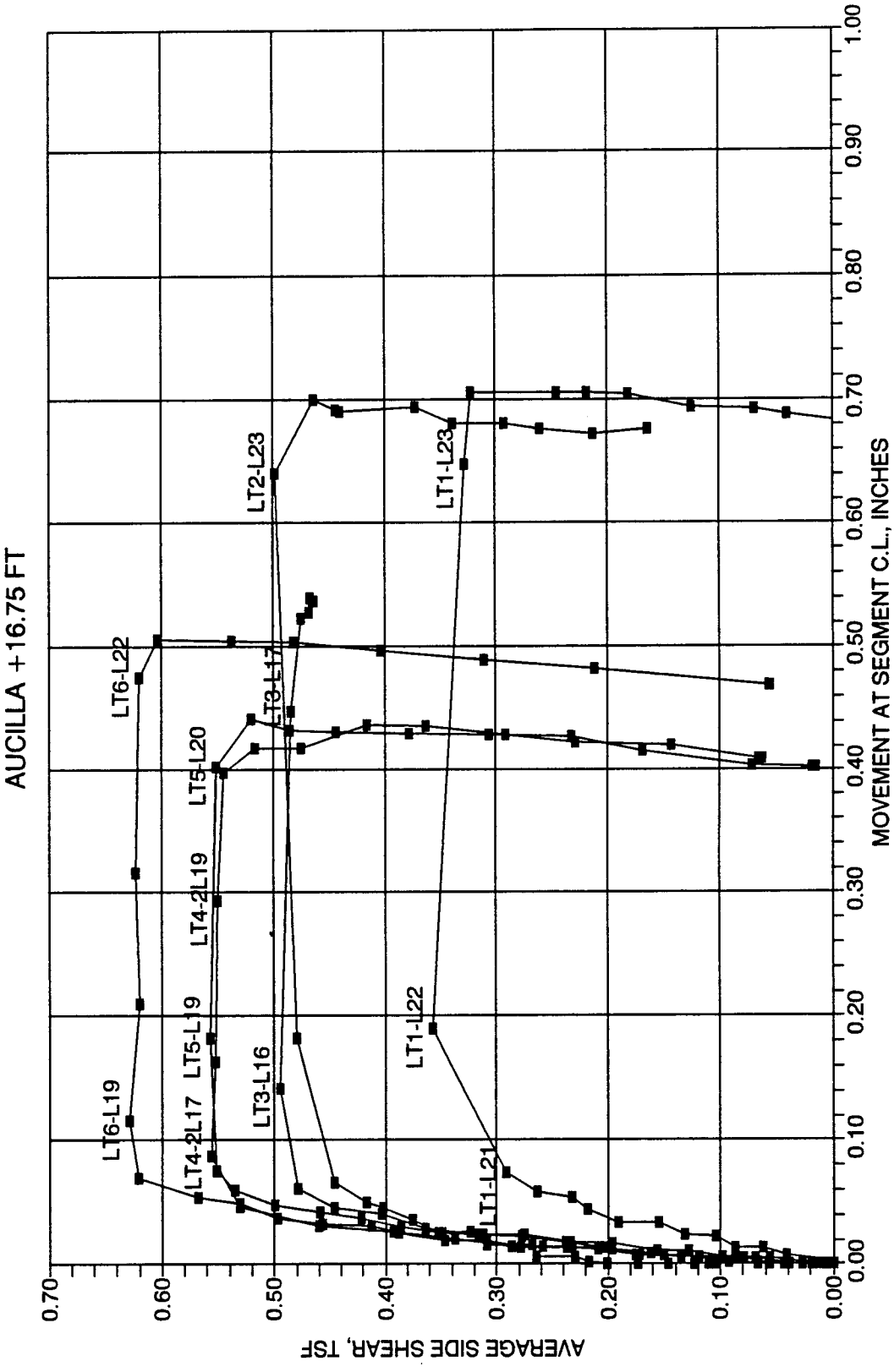

Figure F.13 Aucilla: Side Shear at Elev. +16.75 ft

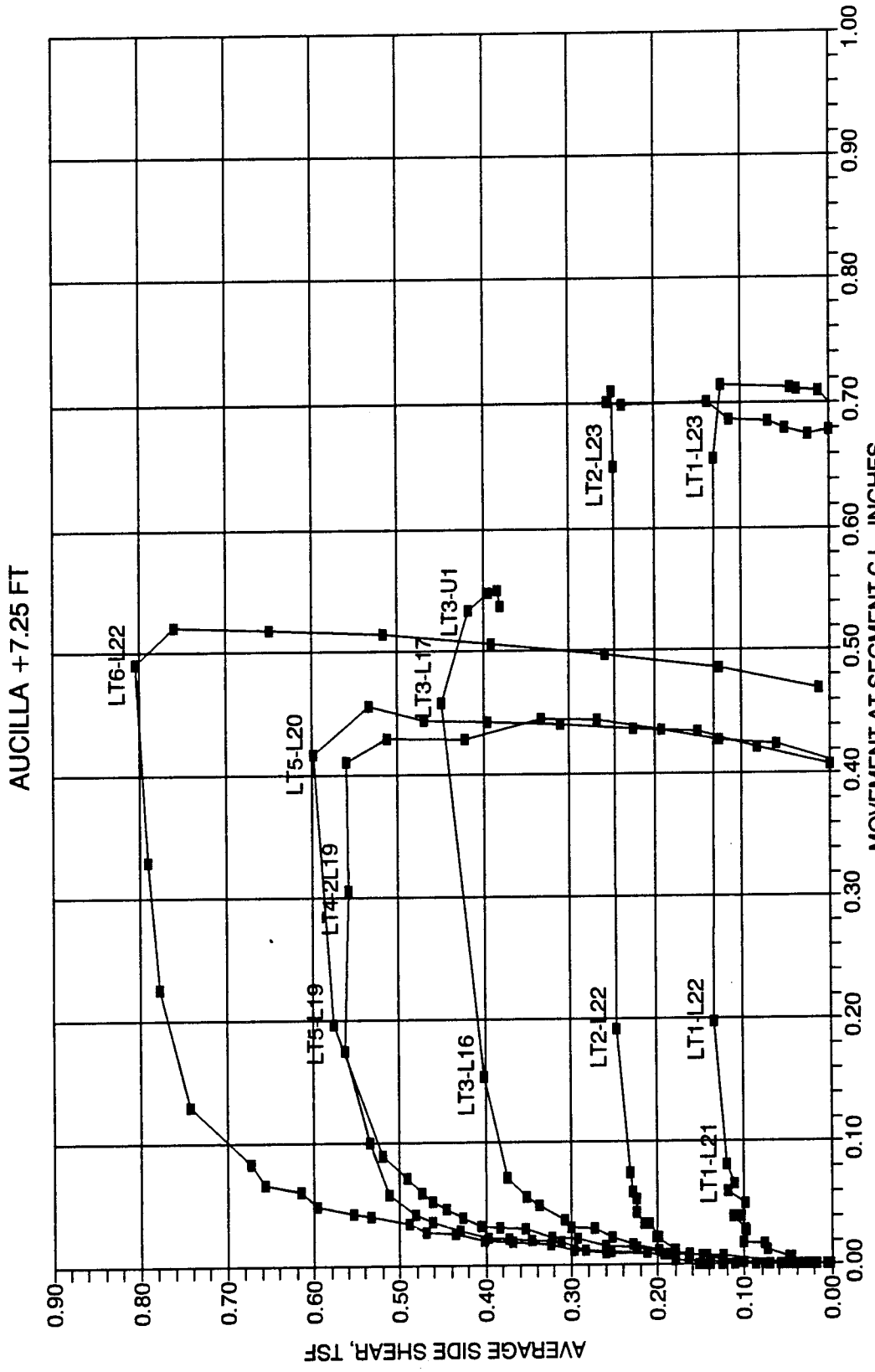

Figure F.14 Aucilla: Side Shear at Elev. +7.25 ft

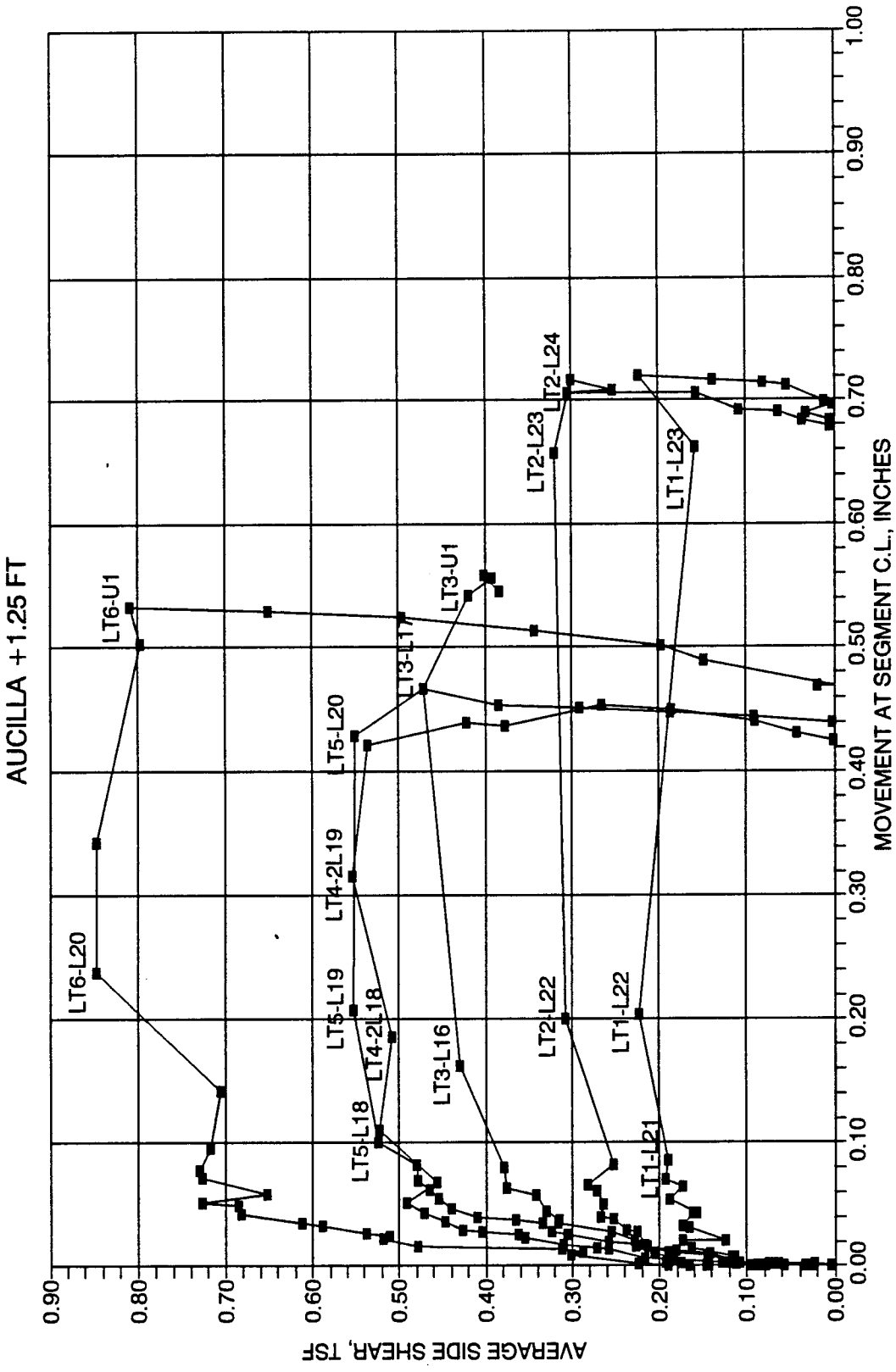

Figure F.15 Aucilla: Side Shear at Elev. +1.25 ft

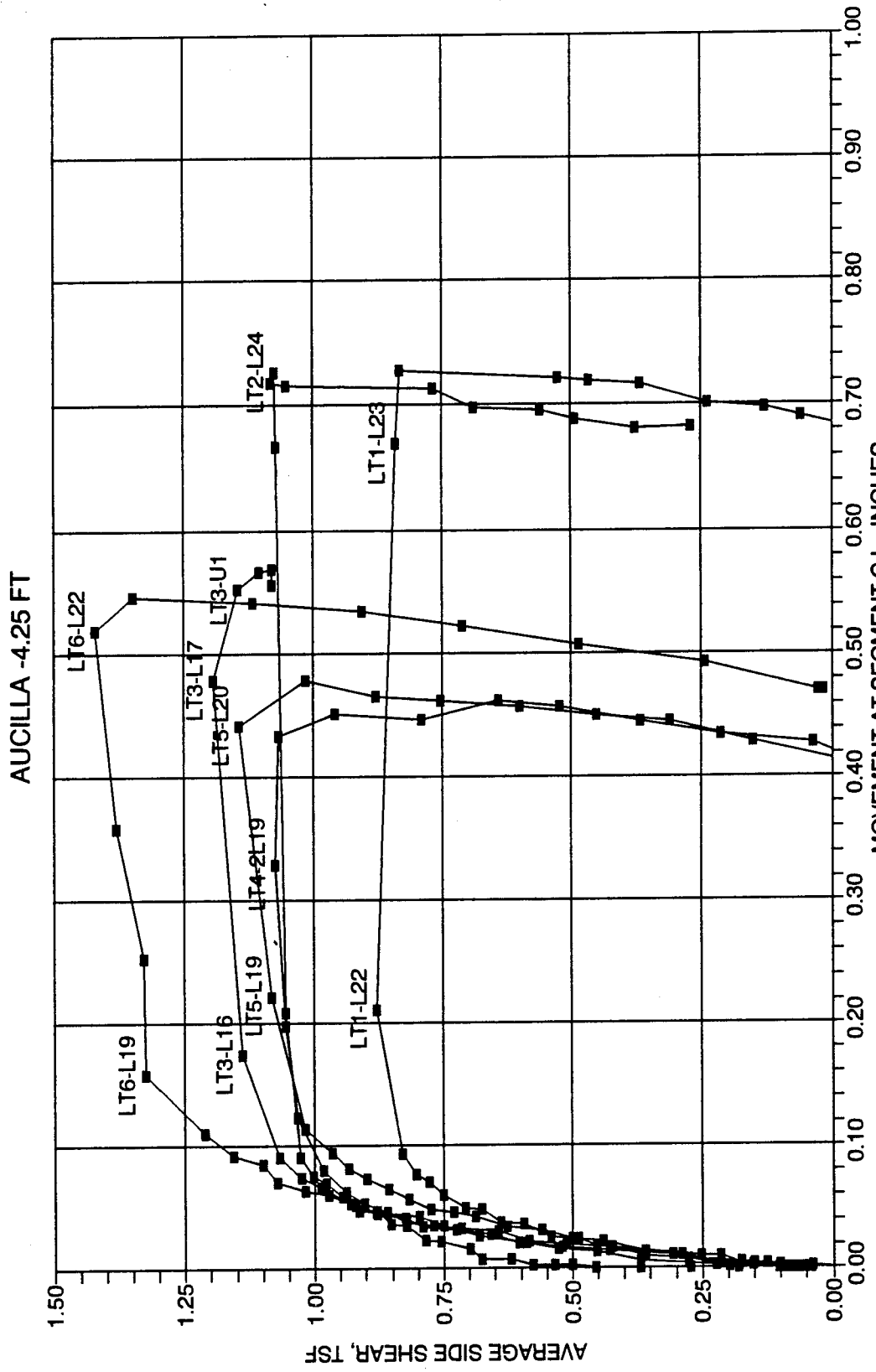

Figure F.16 Aucilla: Side Shear at Elev. -4.25 ft

Table F.6 Maximum Side Shear by Pile Segment: Vilano East

Segment CL Elevation MSL (& Length)	Load Test No.	Elapsed Time Since EOD days	Load No.	Average Unit Side Shear R,tsf	Q/Q0 (T0 = 1day)	Average Segment Movement inches	Effective Stress tsf
	1	0.32	L0	0.010	0.71	0.000	
+0.55 ft	2	3.93	L10	-0.008	-0.59	0.016	
(L = 6.04 ft)	3	15.91	L19	0.023	1.70	0.151	
Q0 = 0.013 tsf	4	76.99	L10 *	0.027	2.02	0.026	
	1	0.32	L37A	0.090	0.88	0.537	
-4.72 ft	2	3.93	L23	0.035	0.34	0.462	
(L = 4.49 ft)	3	15.91	L19A	0.133	1.30	0.376	
Q0 = 0.102 tsf	4	76.99	L10 *	0.181	1.77	0.026	
	1	0.32	L37A	0.102	0.86	0.537	0.105
-9.96 ft	2	3.93	L23	0.086	0.73	0.462	0.305
(L = 6.00 ft)	3	15.91	L19A	0.158	1.34	0.376	0.348
Q0 = 0.118 tsf	4	76.99	L10 *	0.174	1.47	0.027	0.425
	1	0.32	L35	0.331	0.84	0.131	0.546
-16.21 ft	2	3.93	L22	0.467	1.19	0.117	0.319
(L = 6.50 ft)	3	15.91	L17	0.583	1.48	0.072	0.581
Q0 = 0.393 tsf	4	76.99	L10 *	0.456	1.16	0.029	0.667
	1	0.32	L37	1.302	0.91	0.212	0.727
-24.71 ft	2	3.93	L22	1.570	1.10	0.125	3.517
(L = 10.50 ft)	3	15.91	L18	1.918	1.35	0.101	3.492
Q0 = 1.423 tsf	4	76.99	L10 *	1.154	0.81	0.036	3.000

Notes: Unit Side Shear has been reduced by segment weight.
Unit Side Shear is maximum measured during each load test.
Q0 found by log-linear interpolation.
* LT4 Failed in Bearing (not in Shear)

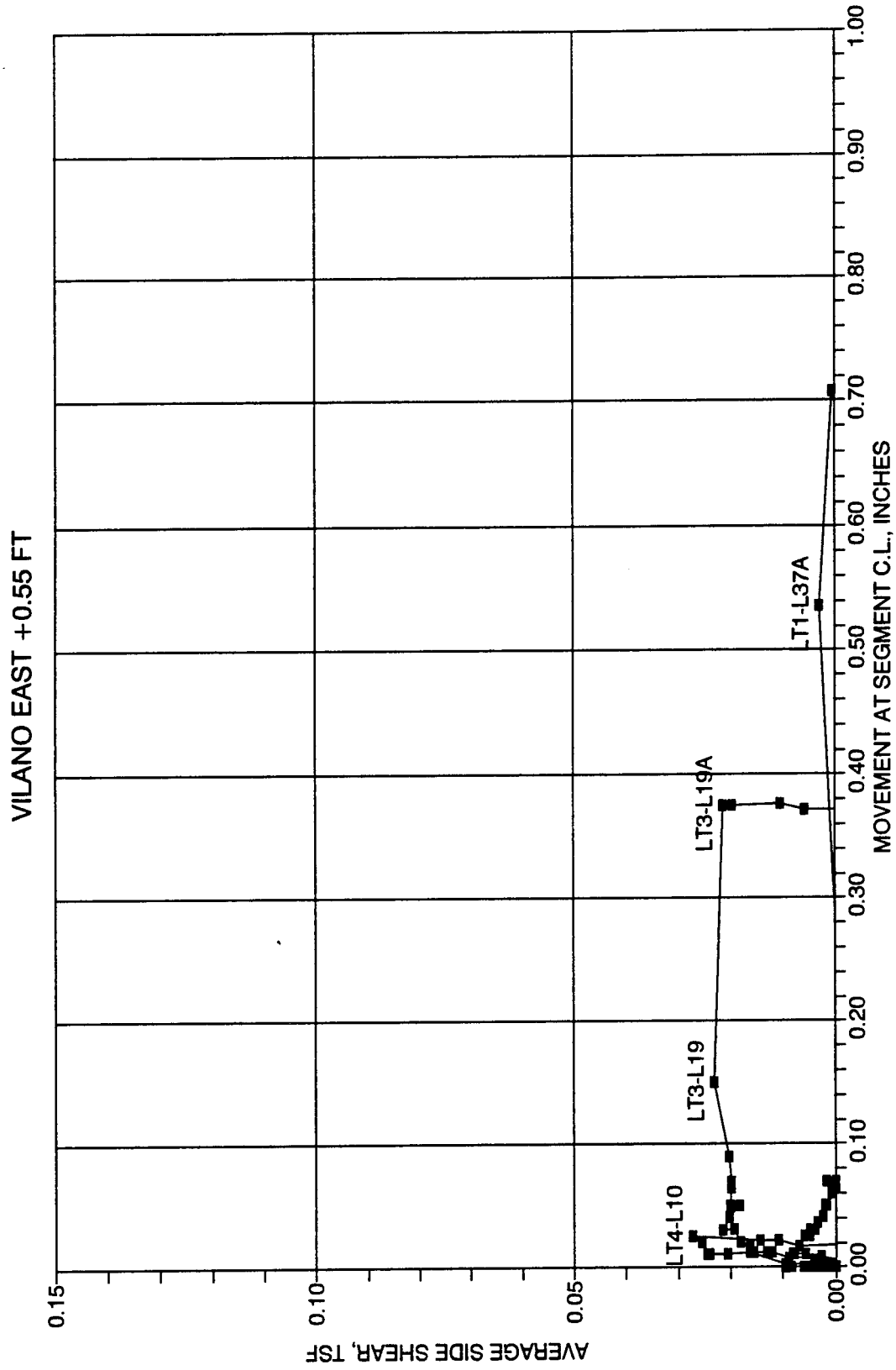

Figure F.17 Vilano East: Side Shear at Elev. +0.55 ft

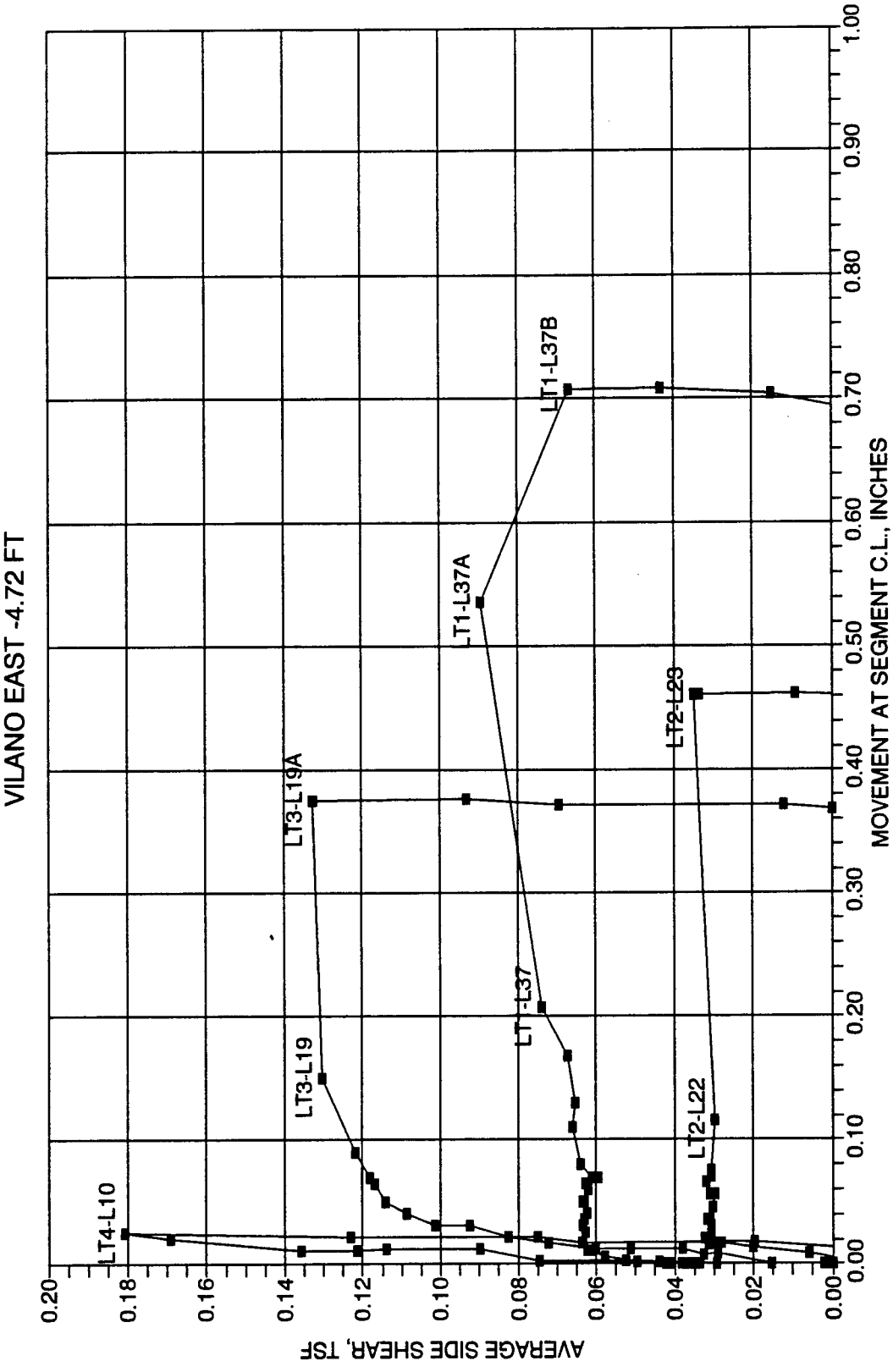

Figure F.18 Vilano East: Side Shear at Elev. -4.72 ft

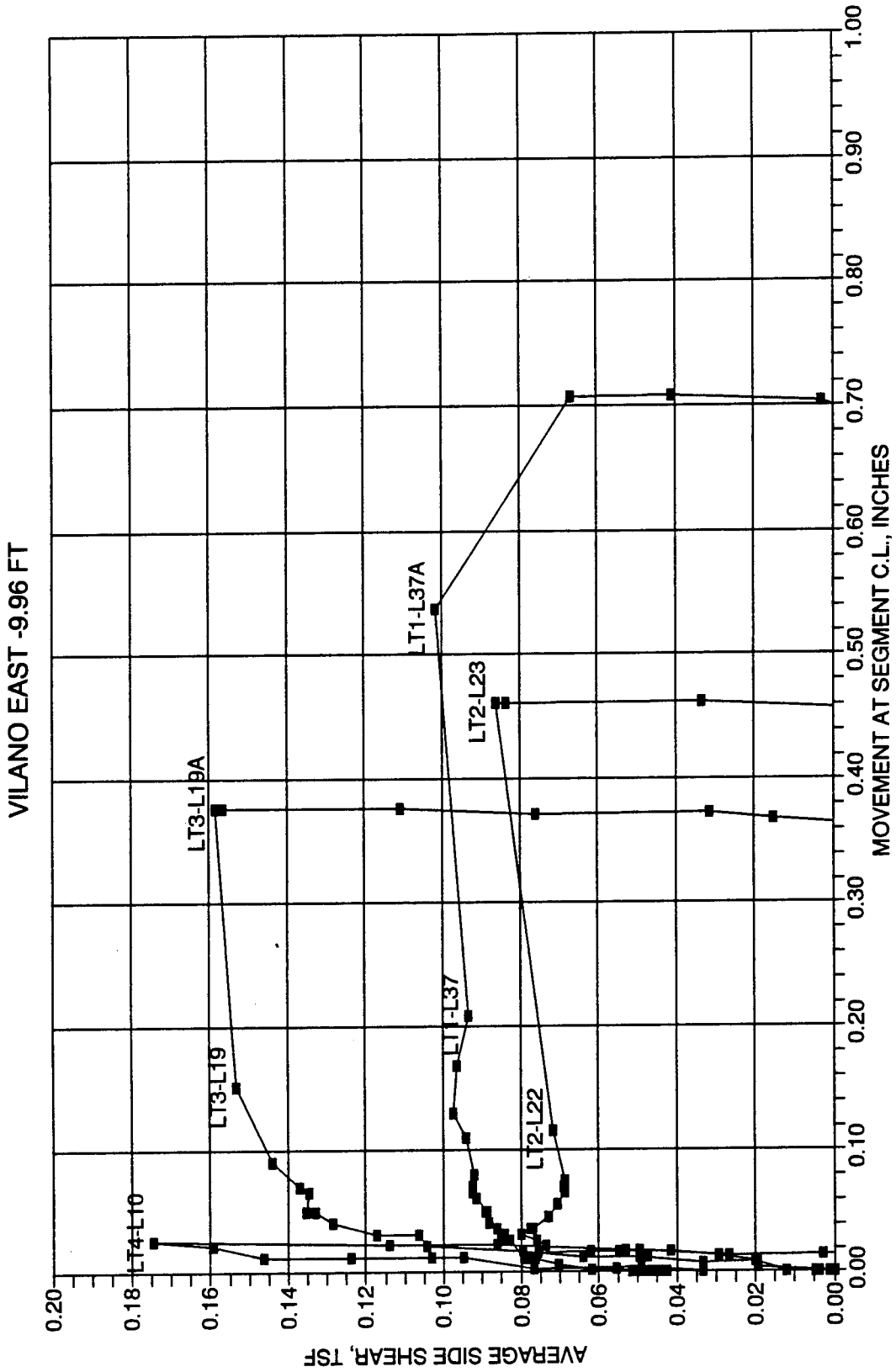

Figure F.19 Vilano East: Side Shear at Elev. -9.96 ft

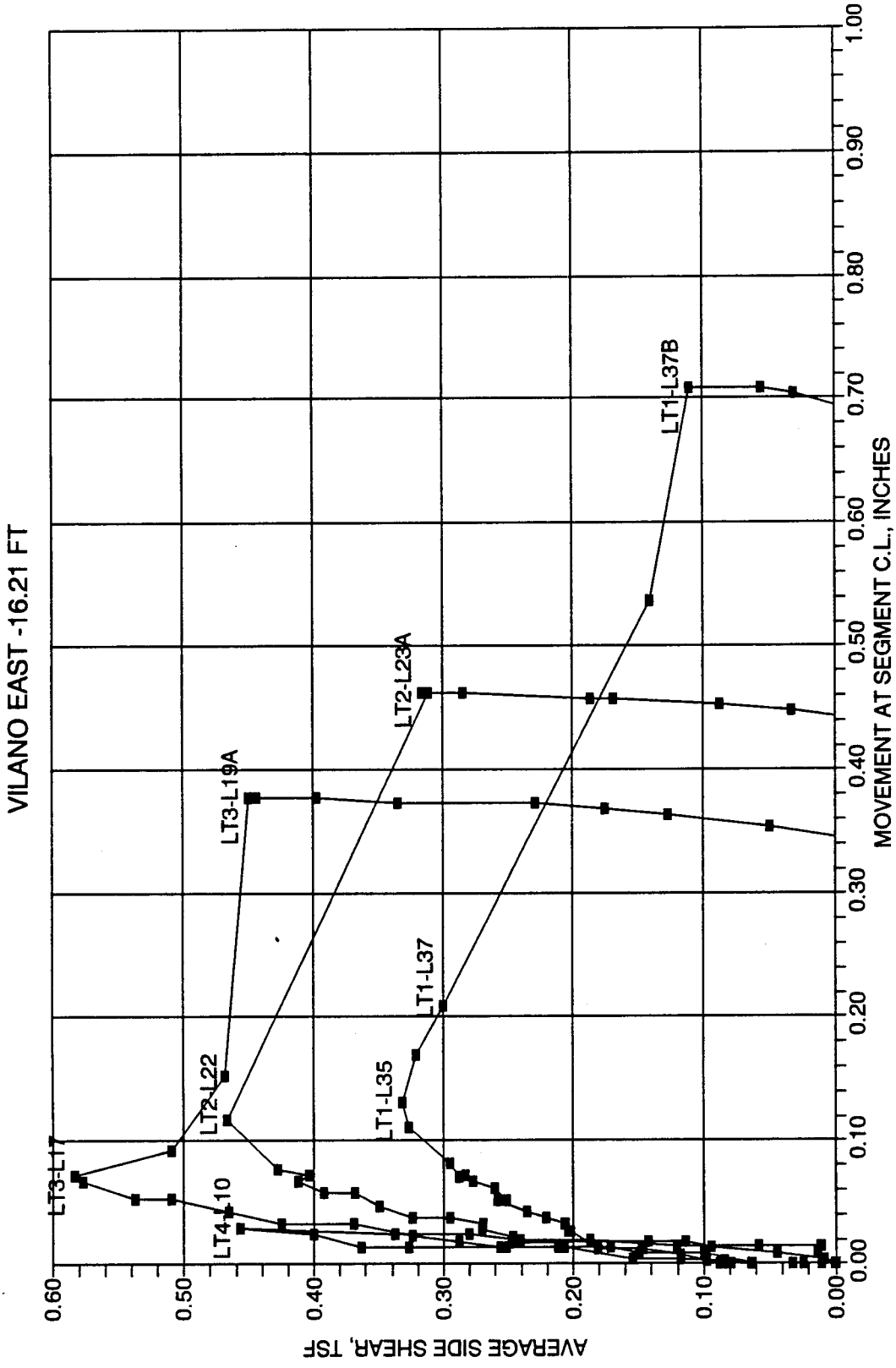

Figure F.20 Vilano East: Side Shear at Elev. -16.21 ft

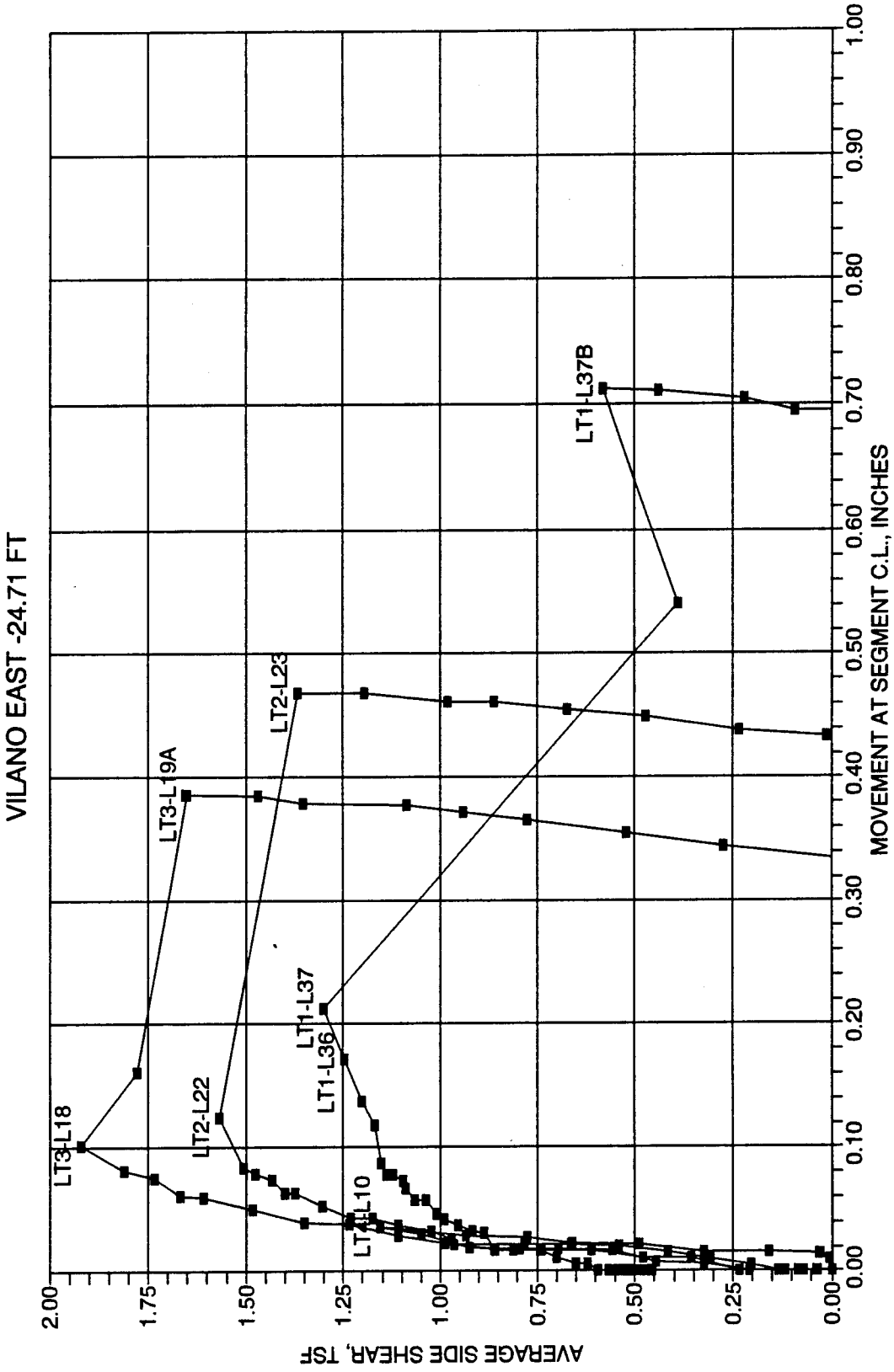

Figure F.21 Vilano East: Side Shear at Elev. -24.71 ft

Table F.7 Maximum Side Shear by Pile Segment: Vilano West

Segment C.L. Elev. MSL (& Length)	Load Test No.	Elapsed Time Since EOD days	Load No.	Average Unit Side Shear R,tsf	Q/Q0 (T0 = 1day)	Average Segment Movement inches	Effective Stress tsf
	1	0.26	L15B	-0.007		0.817	
+1.76 ft	2	2.84	L7	-0.009		0.019	
(L = 5.63 ft)	3	18.98	L15	-0.011		0.053	
Q0 = -0.008 tsf	4	157.01	2L13A *	0.243		0.543	
	1	0.26	L4	0.032	1.25	0.000	
-6.44 ft	2	2.84	L17	0.021	0.81	0.328	
(L = 10.75 ft)	3	18.98	L22	0.039	1.52	0.238	
Q0 = 0.026 tsf	4	157.01	2L0 *	-0.016	-0.64	0.000	
	1	0.26	L15	0.034	0.66	0.497	0.321
-19.81 ft	2	2.84	L17A	0.066	1.26	0.624	0.416
(L = 16.00 ft)	3	18.98	L22	0.086	1.65	0.239	0.390
Q0 = 0.052 tsf	4	157.01	2L13 *	0.100	1.92	0.247	0.490
	1	0.26	L15A	0.183	0.80	0.719	
-31.81 ft	2	2.84	L17	0.267	1.16	0.331	
(L = 8.00 ft)	3	18.98	L22	0.275	1.19	0.241	
Q0 = 0.230 tsf	4	157.01	2L12 *	0.215	0.93	0.095	
	1	0.26	L13	0.118	0.80	0.179	0.707
-40.31 ft	2	2.84	L16	0.170	1.15	0.158	0.556
(L = 9.00 ft)	3	18.98	L21	0.192	1.30	0.134	0.630
Q0 = 0.147 tsf	4	157.01	2L12 *	0.286	1.94	0.095	0.479
	1	0.26	L15	0.155	0.88	0.503	0.880
-48.81 ft	2	2.84	L15	0.193	1.09	0.122	1.100
(L = 8.00 ft)	3	18.98	L21	0.375	2.13	0.139	1.438
Q0 = 0.176 tsf	4	157.01	2L13	0.608	3.45	0.248	1.175
	1	0.26	L15A	1.102	0.95	0.725	
-53.56 ft	2	2.84	L17	1.201	1.04	0.340	
(L = 1.50 ft)	3	18.98	L21	1.388	1.20	0.142	
Q0 = 1.158 tsf	4	157.01	2L13	1.279	1.10	0.250	

Notes: Unit Side Shear has been reduced by segment weight.
Unit Side Shear is maximum measured during each load test.
Q0 found by log-linear interpolation.
Jetting at Installation Affects Shear above Elevation -19.3 ft.
* Top 5 Shear Estimates Unreliable for LT4

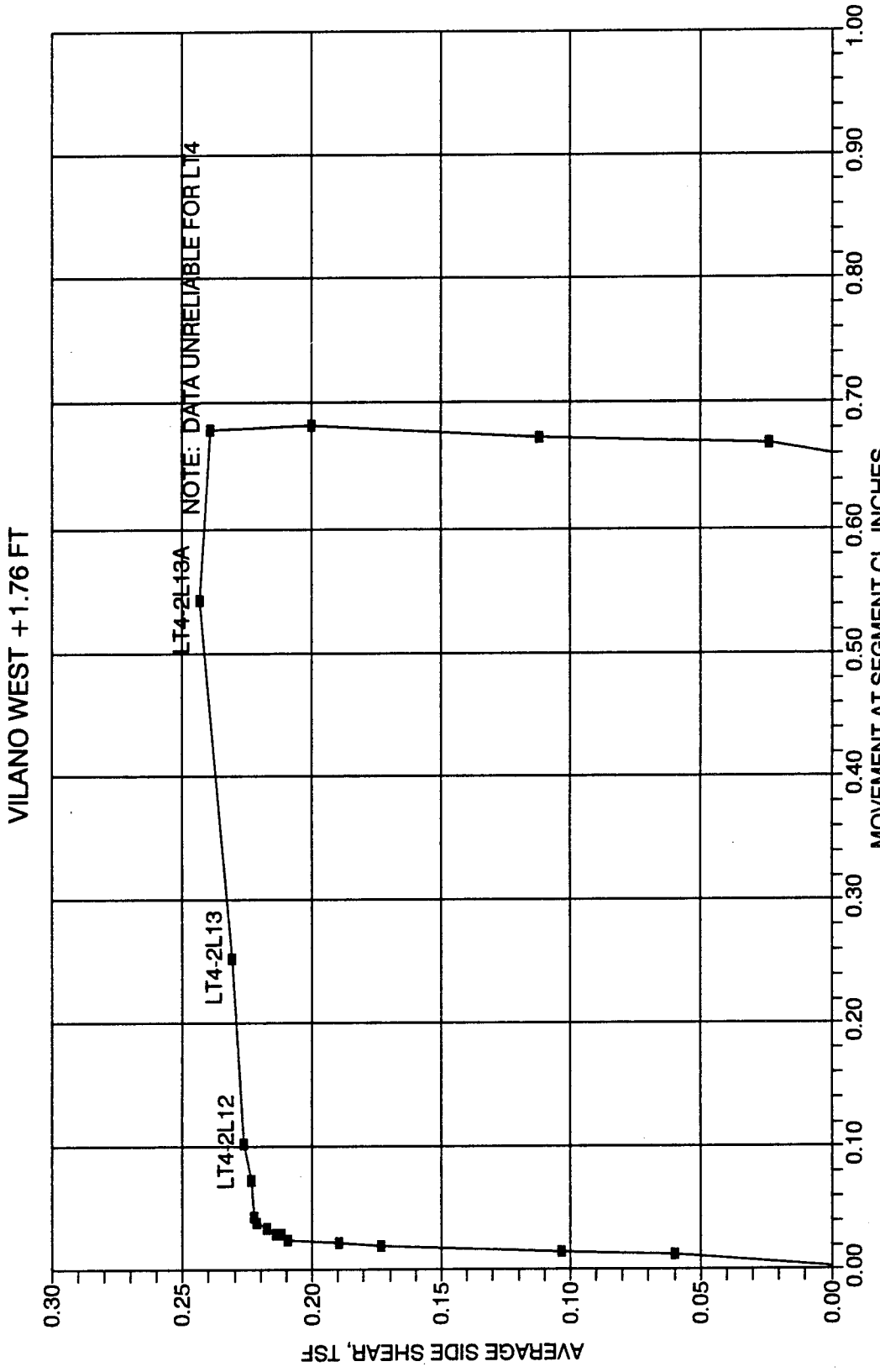

Figure F.22 Vilano West: Side Shear at Elev. +1.76 ft

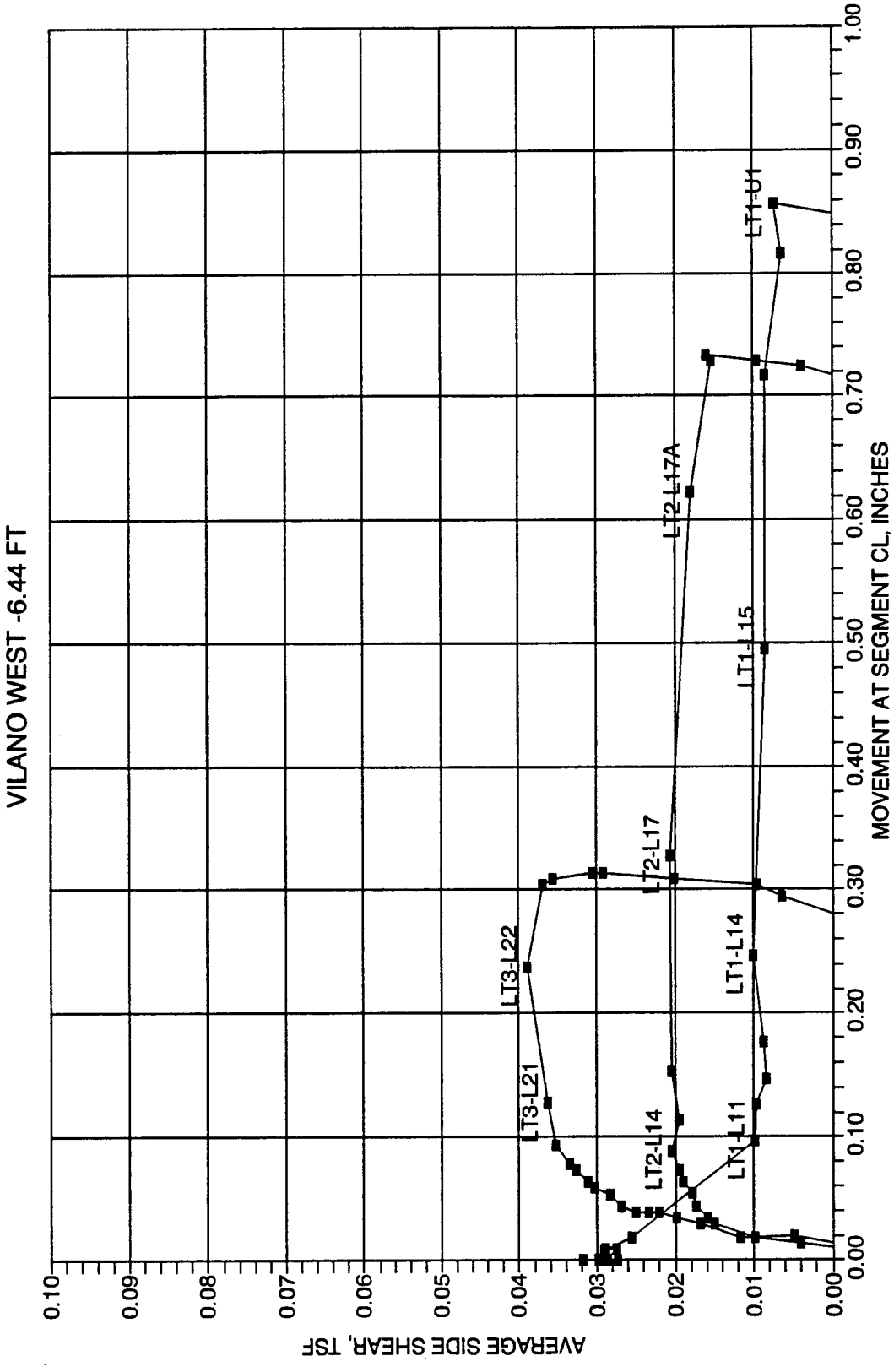

Figure F.23 Vilano West: Side Shear at Elev. -6.44 ft

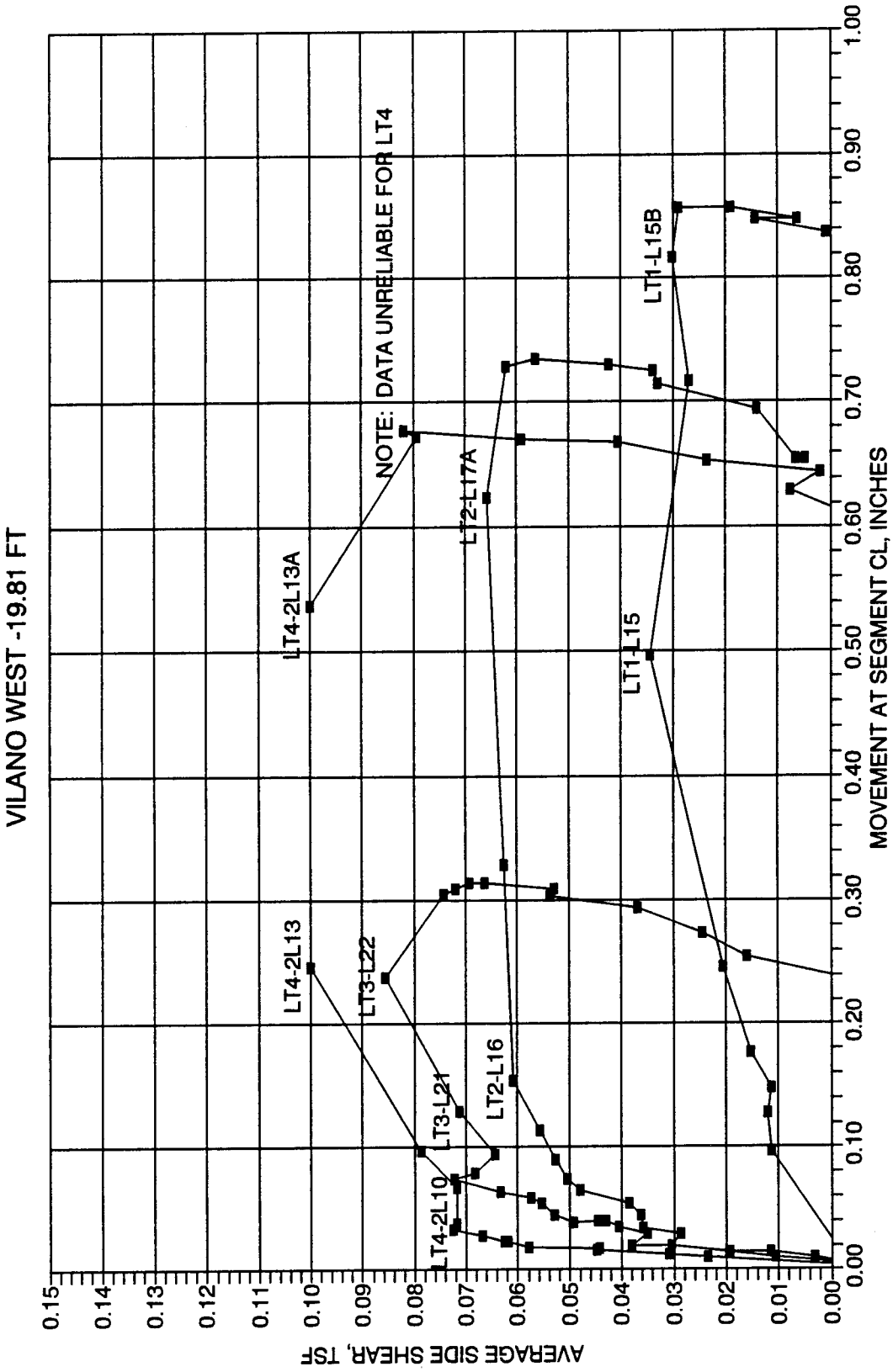

Figure F.24 Vilano West: Side Shear at Elev. -19.81 ft

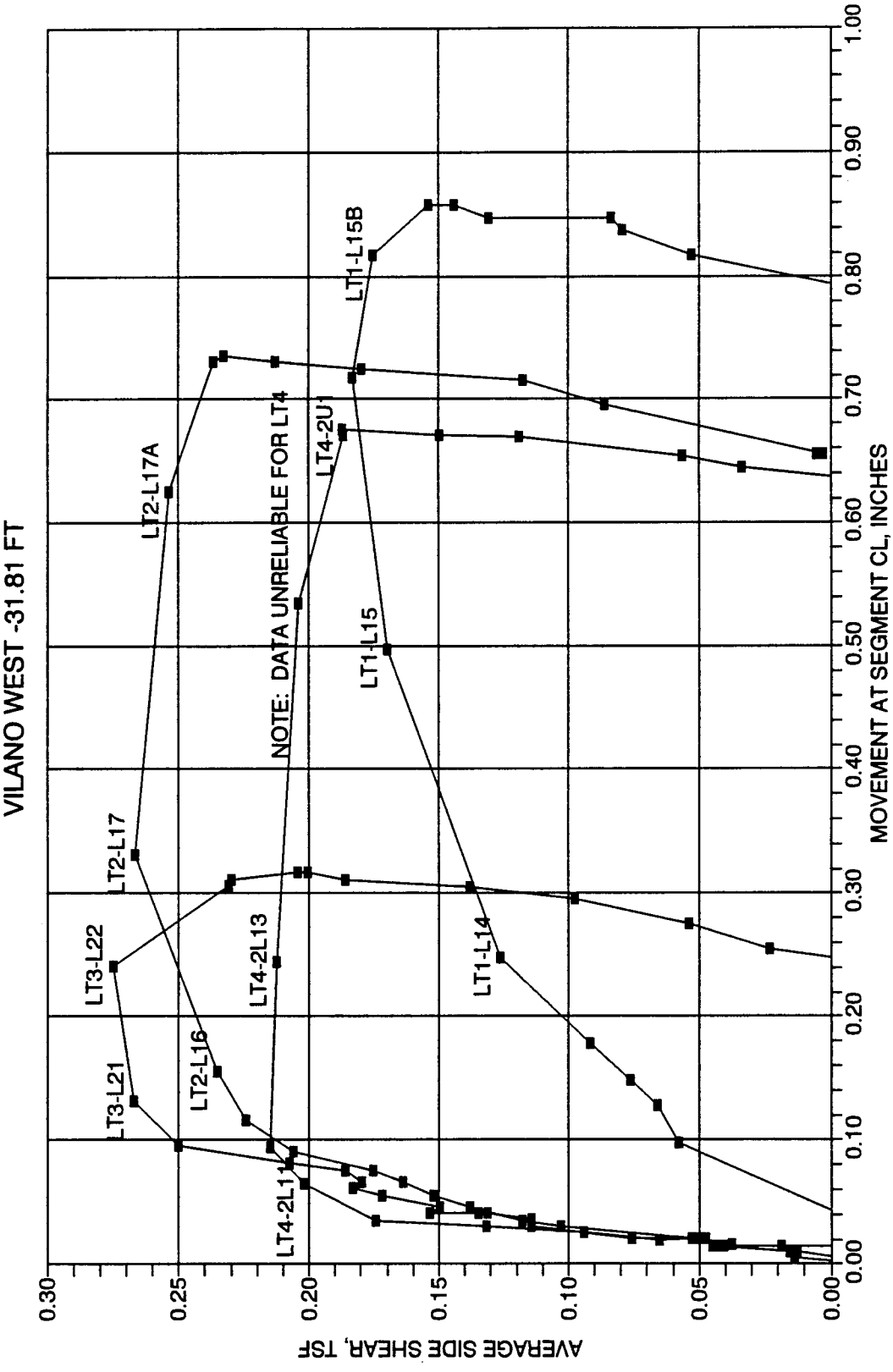

Figure F.25 Vilano West: Side Shear at Elev. -31.81 ft

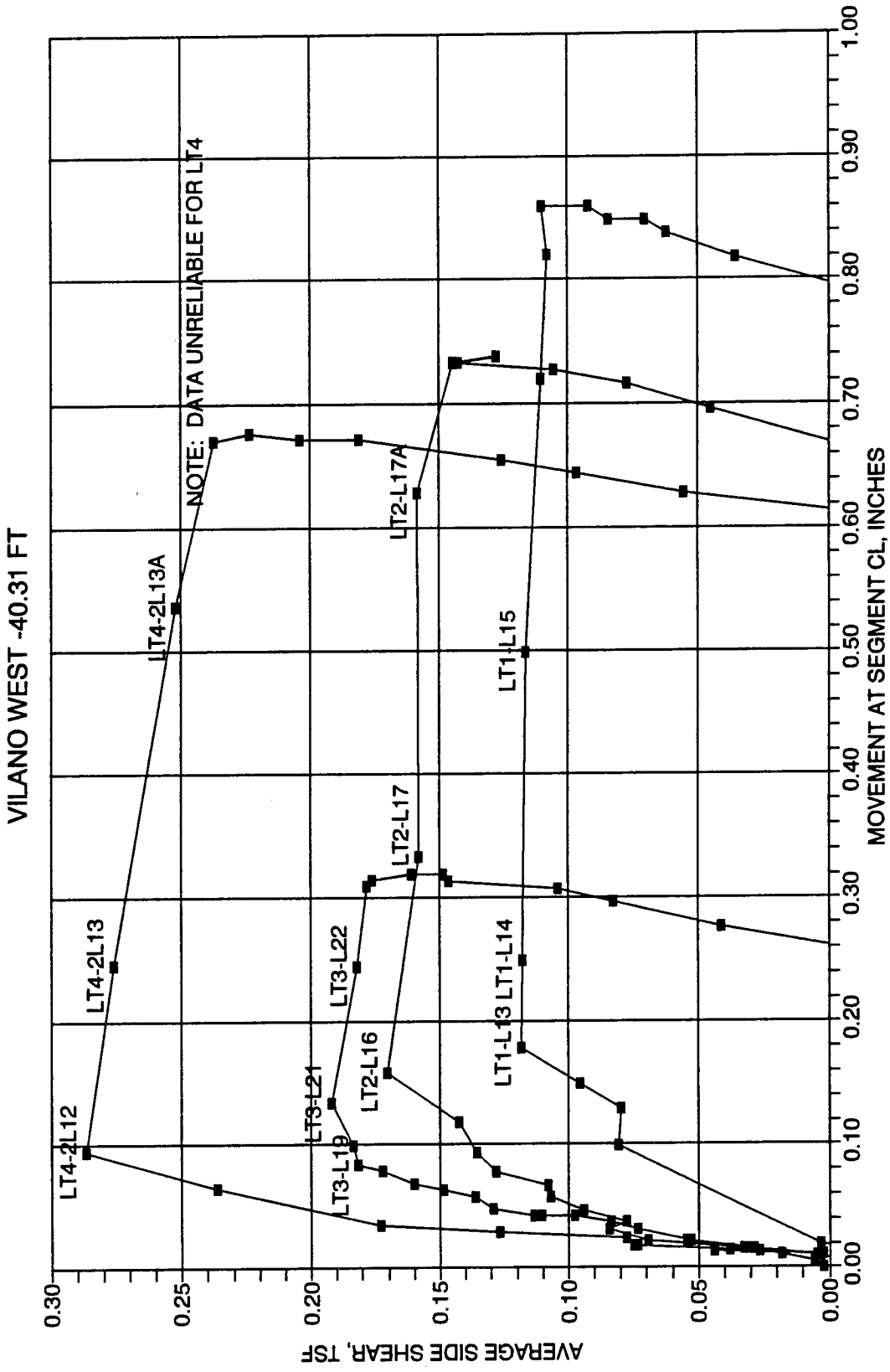

Figure F.26 Vilano West: Side Shear at Elev. -40.31 ft

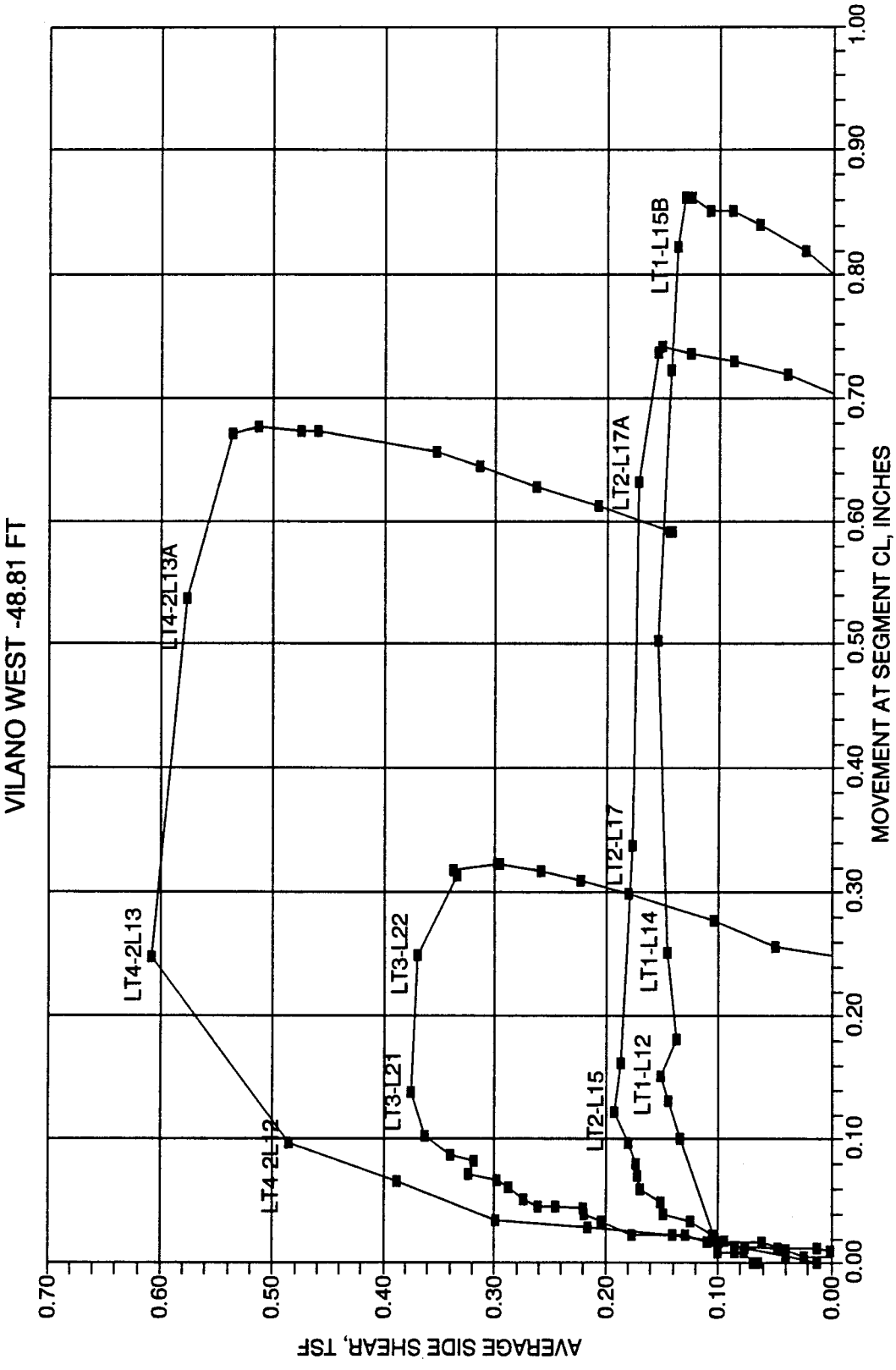

Figure F.27 Vilano West: Side Shear at Elev. -48.81 ft

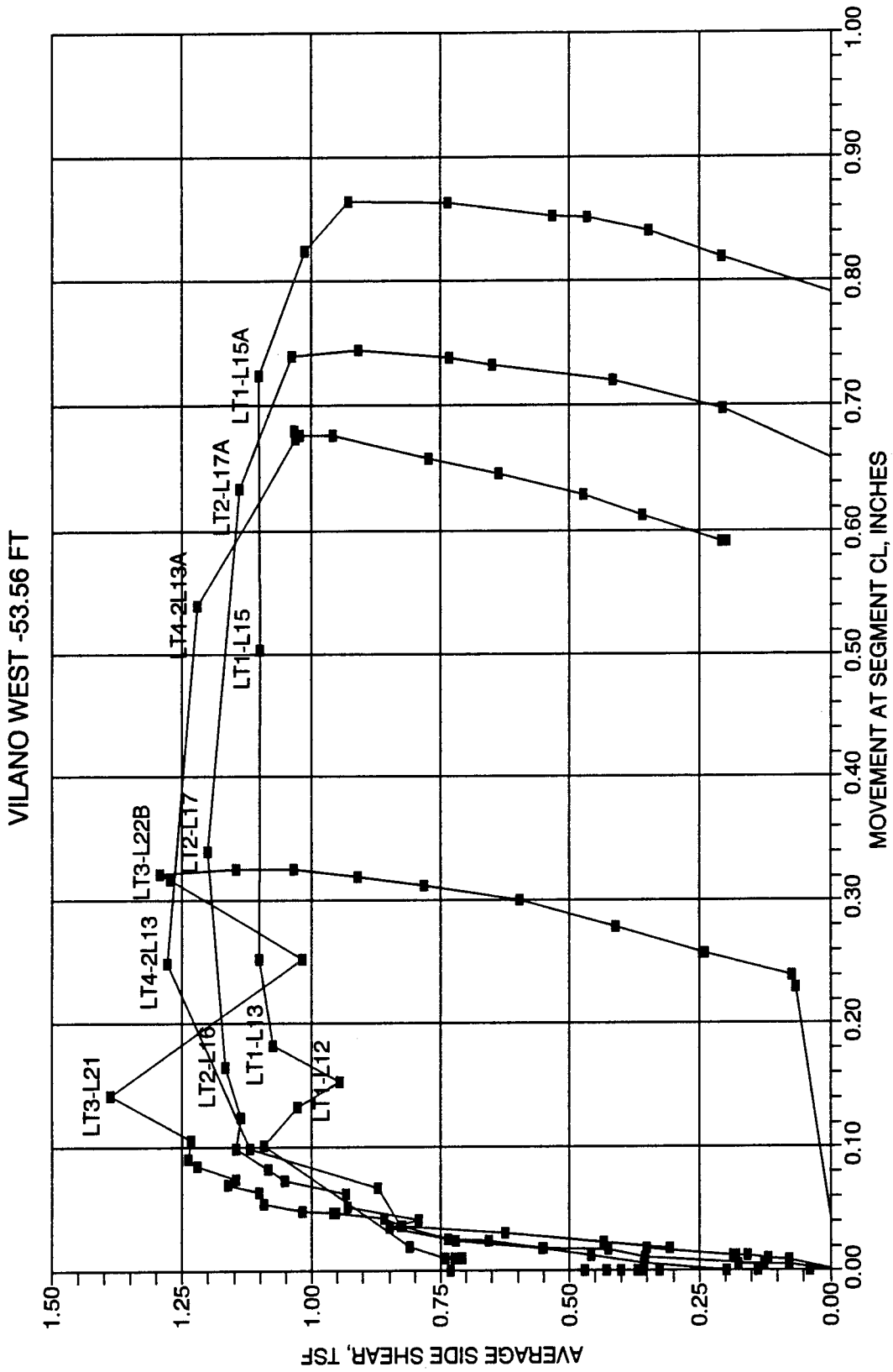

Figure F.28 Vilano West: Side Shear at Elev. -53.56 ft

Table F.8 Maximum Side Shear by Pile Segment: Seabreeze

Segment C.L. Elev. MSL (& Length)	Load Test No.	Elapsed Time Since EOD days	Load No.	Average Unit Side Shear R,tsf	Q/Q0 (Q0 = 1day	Average Segment Movement inches	Effective Stress tsf
	1	0.35	L19	0.019	1.13	0.547	
-4.17 ft *	2	4.03	L15	0.014	0.83	0.078	
(L = 20.93 ft)	3	17.94	L13	0.039	2.35	0.311	
Q0 = 0.017 tsf	4	69.94	L16A	0.047	2.83	0.182	
	5	292.90	L18	0.116	6.98	0.566	
	6	1057.90	L19	0.129	7.76	0.540	
	1	0.35	L19	0.130	0.86	0.550	0.308
-25.38 ft	2	4.03	L17A	0.181	1.19	0.290	0.265
(L = 21.50 ft)	3	17.94	L13	0.231	1.52	0.315	0.229
Q0 = 0.152 tsf	4	69.94	L16	0.255	1.68	0.160	0.274
	5	292.90	L18	0.340	2.24	0.573	0.368
	6	1057.90	L19	0.386	2.54	0.547	0.499
	1	0.35	L18	0.160	1.15	0.334	0.484
-41.38 ft	2	4.03	L12	0.112	0.81	0.036	0.493
(L = 10.50 ft)	3	17.94	L13	0.158	1.13	0.323	0.437
Q0 = 0.139 tsf	4	69.94	L16	0.193	1.39	0.168	0.514
	5	292.90	L18	0.206	1.48	0.584	
	6	1057.90	L19	0.257	1.84	0.559	
	1	0.35	L19	0.304	1.00	0.561	0.848
-52.13 ft	2	4.03	L16	0.308	1.01	0.157	1.719
(L = 11.00 ft)	3	17.94	L13	0.548	1.79	0.332	1.807
Q0 = 0.306 tsf	4	69.94	L16	0.759	2.48	0.178	1.613
	5	292.90	L17	0.837	2.74	0.205	1.565
	6	1057.90	L18	0.900	2.94	0.152	1.671
	1	0.35	L17	0.462	0.71	0.144	1.388
-63.13 ft	2	4.03	L16	0.898	1.38	0.169	2.366
(L = 11.00 ft)	3	17.94	L12	0.949	1.46	0.152	2.375
Q0 = 0.649 tsf	4	69.94	L16	0.997	1.54	0.196	2.376
	5	292.90	L17	1.137	1.75	0.224	2.379
	6	1057.90	L19	1.196	1.84	0.595	2.427
	1	0.35	L19	1.780	0.80	0.582	
-71.13 ft	2	4.03	L17	2.810	1.26	0.267	
(L = 5.00 ft)	3	17.94	L13	2.571	1.16	0.365	
Q0 = 2.223 tsf	4	69.94	L16	2.069	0.93	0.214	
	5	292.90	L17	1.953	0.88	0.245	
	6	1057.90	L18	1.164	0.52	0.196	

Notes: Unit Side Shear has been reduced by segment weight.
Q0 found by log-linear interpolation.
* Disturbed during installation by casing to -9.23 ft.
Unit Side Shear is maximum measured during each load test.

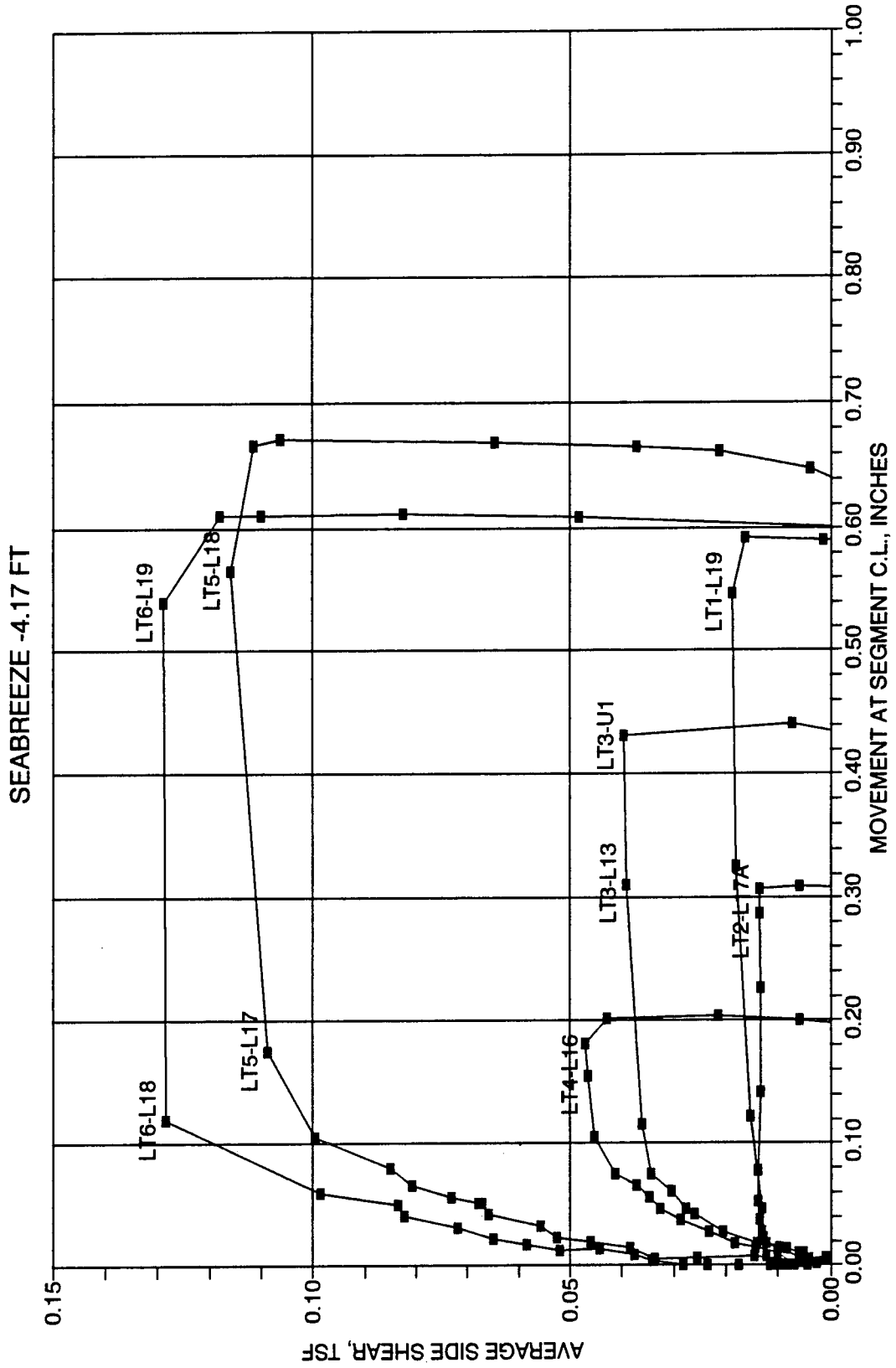

Figure F.29 Seabreeze: Side Shear at Elev. -4.17 ft

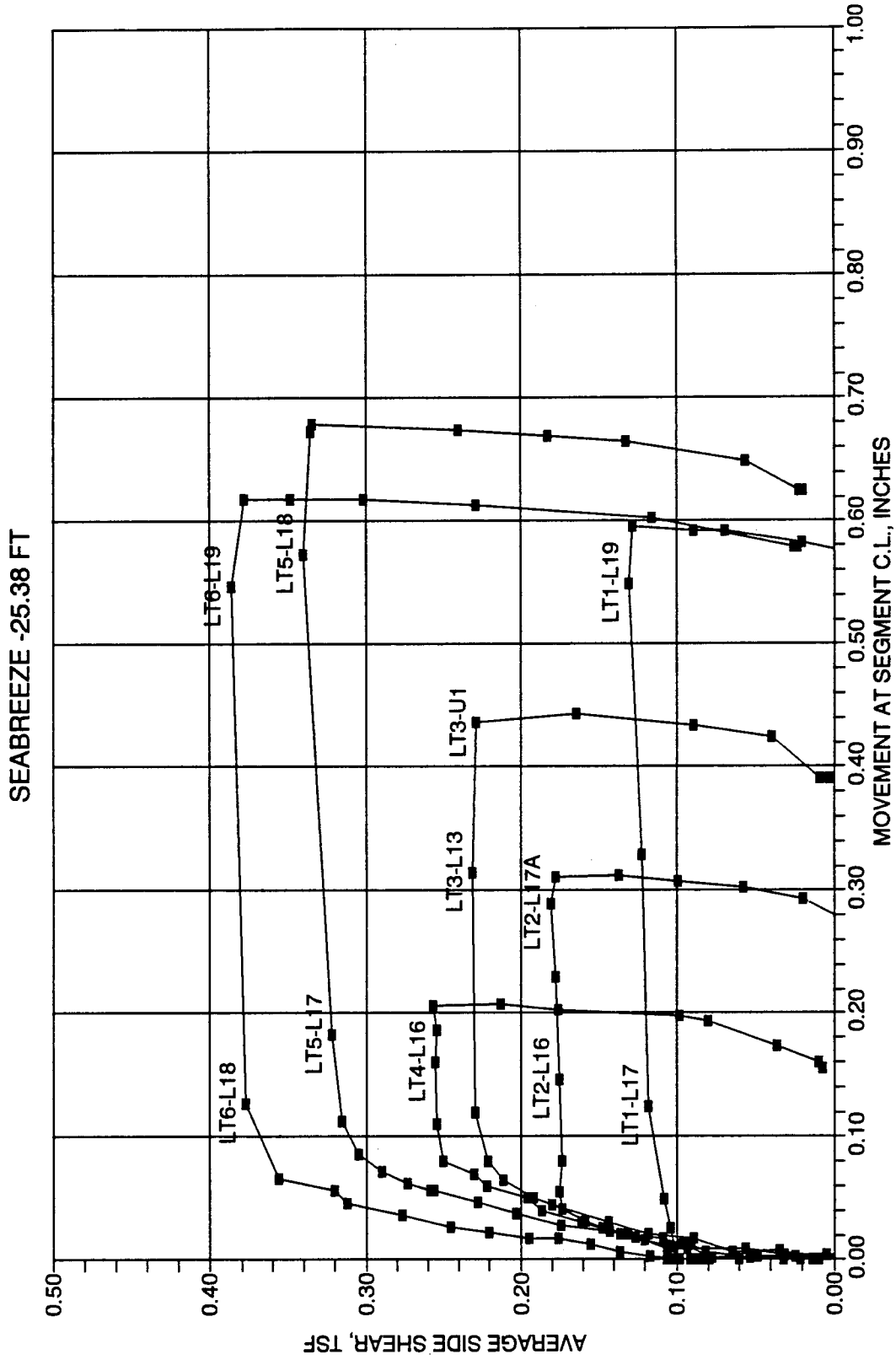

Figure F.30 Seabreeze: Side Shear at Elev. -25.38 ft

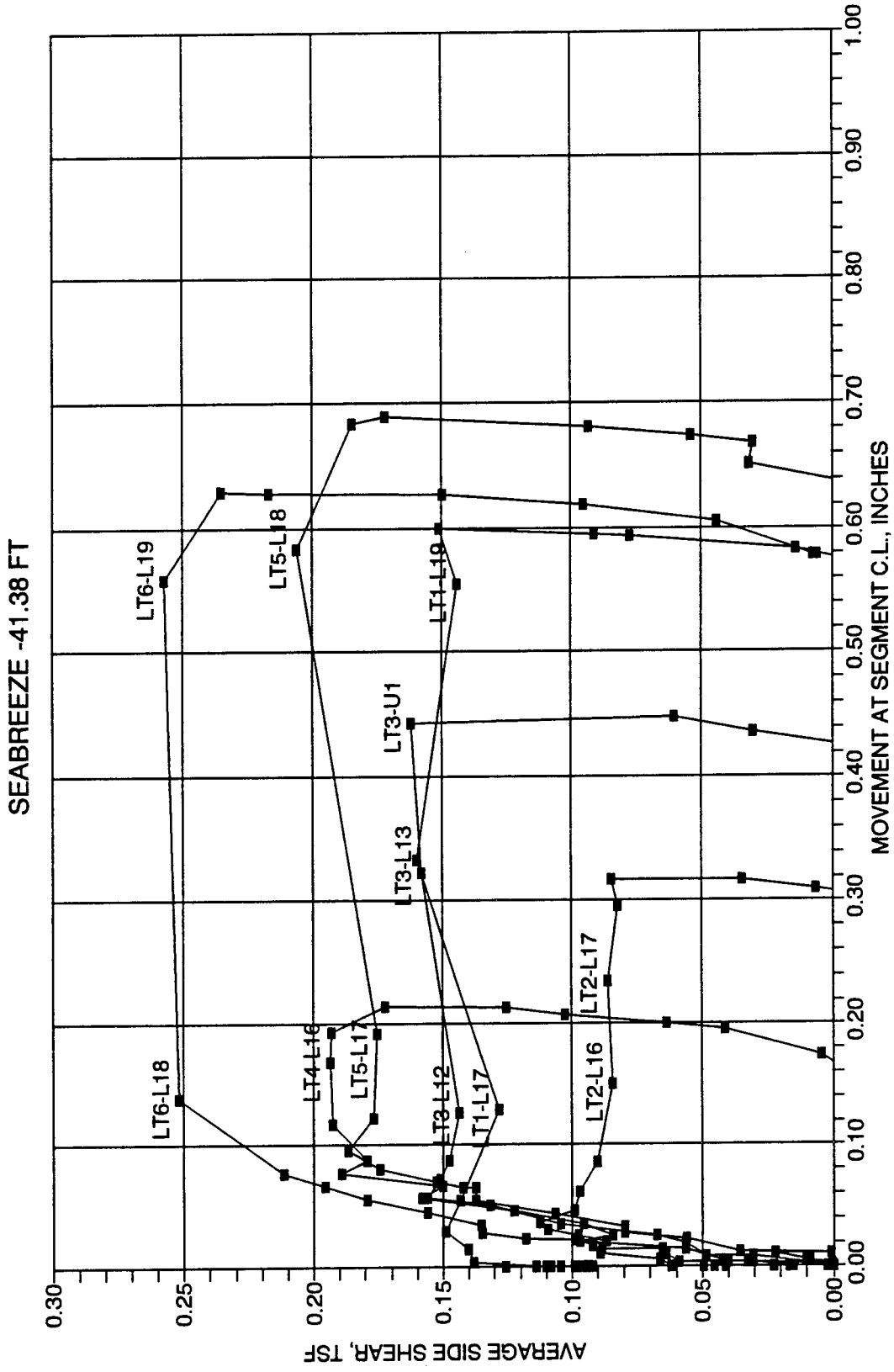

Figure F.31 Seabreeze: Side Shear at Elev. -41.38 ft

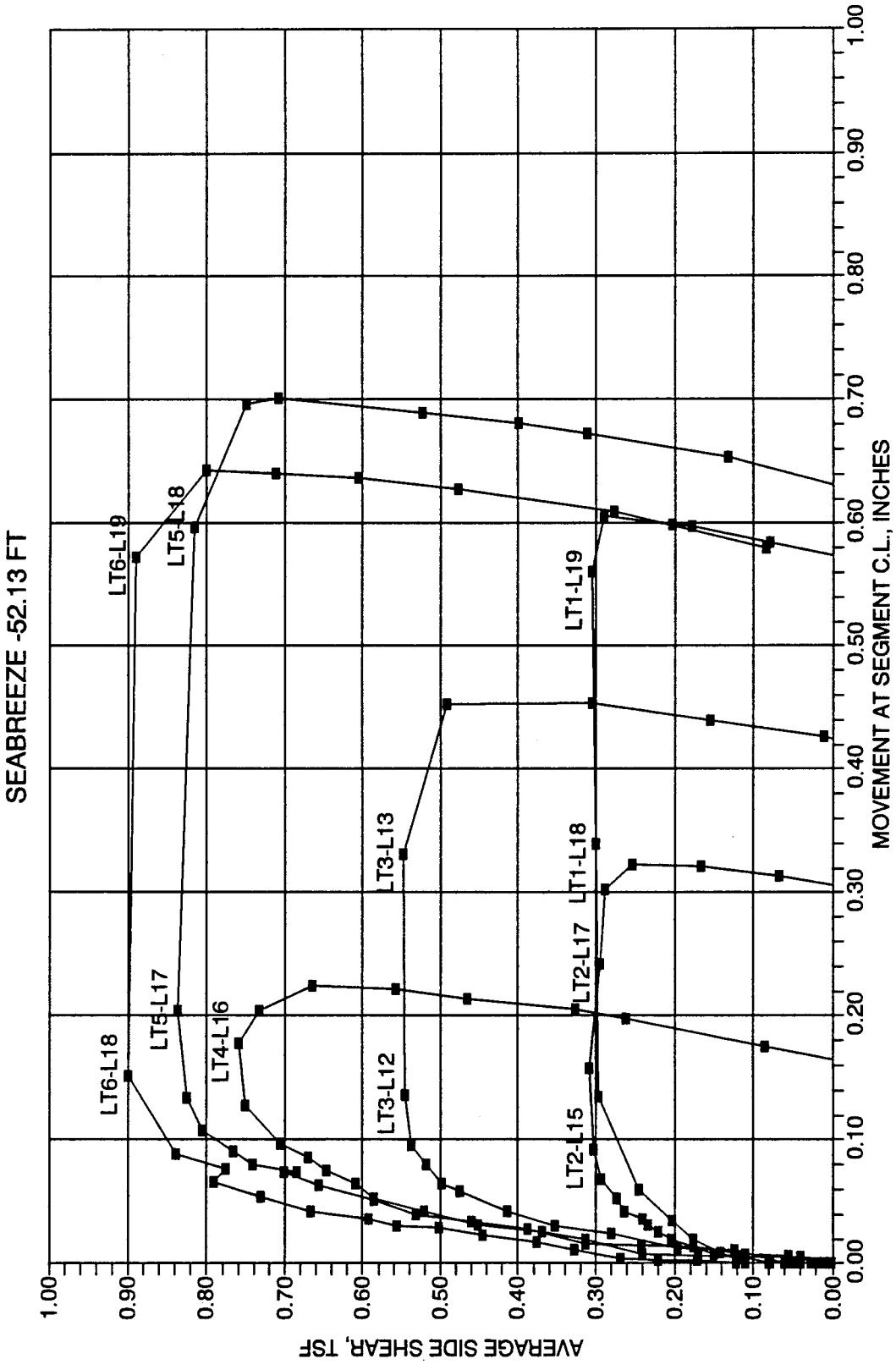

Figure F.32 Seabreeze: Side Shear at Elev. -52.13 ft

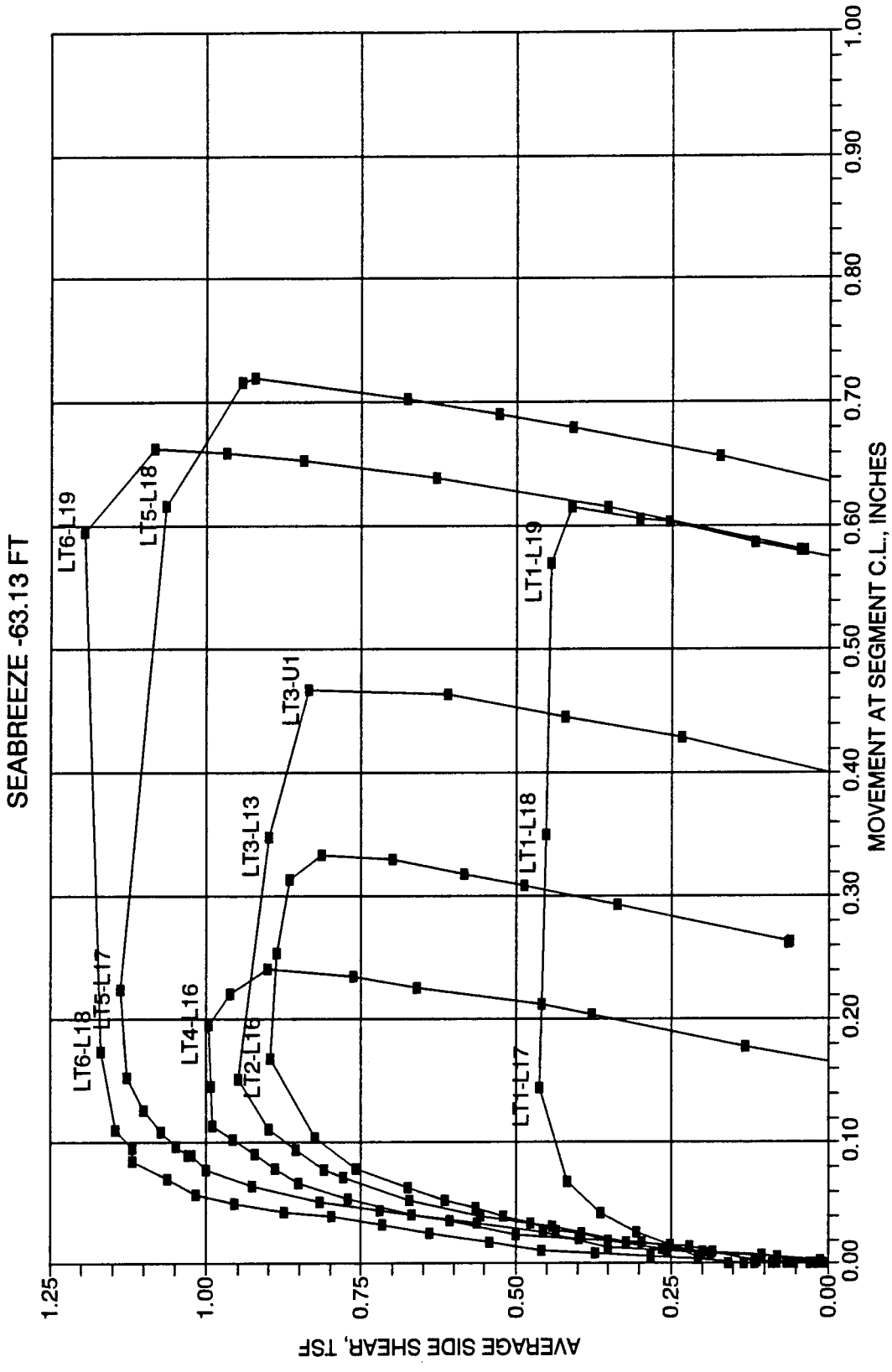

Figure F.33 Seabreeze: Side Shear at Elev. -63.13 ft

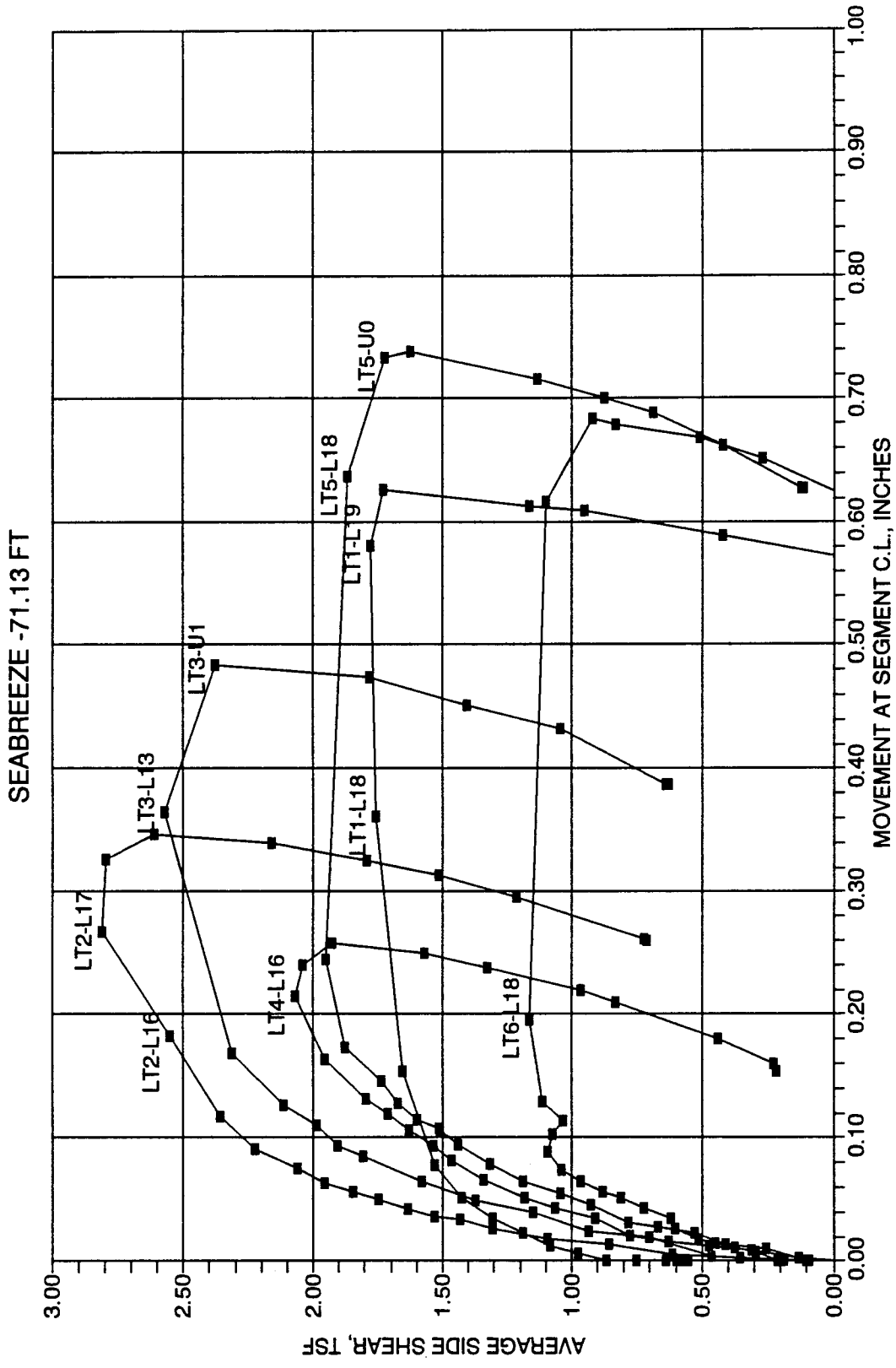

Figure F.34 Seabreeze: Side Shear at Elev. -71.13 ft

Table F.9 Strain Analyses: Buckman Load Test 1

VIBRATING WIRE INSTRUMENT READINGS - STRAIN

BKM 1 LOAD NUMBER	TIME	VW STRN FREQ^2 KHZ^2 43	VW STRN FREQ^2 KHZ^2 44	VW STRN FREQ^2 KHZ^2 55	VW STRN FREQ^2 KHZ^2 56	VW STRN FREQ^2 KHZ^2 57	VW STRN FREQ^2 KHZ^2 58	VW STRN FREQ^2 KHZ^2 59	VW STRN FREQ^2 KHZ^2 60	VW STRN FREQ^2 KHZ^2 61	VW STRN FREQ KHZ^2 62
1L0	15:42:44	0.71770	0.74600	0.77201	0.78121	0.72023	0.69708	0.76469	0.74589	0.86734	0.88114
1L0	16:16:54	0.71770	0.74593	0.77197	0.78120	0.72045	0.69703	0.76442	0.74564	0.86696	0.88080
1L0	17:46:06	0.71774	0.74608	0.77187	0.78124	0.71982	0.69661	0.76395	0.74529	0.86658	0.88033
1L0	19:48:26	0.71834	0.74649	0.77192	0.78144	0.71948	0.69638	0.76359	0.74500	0.86626	0.88004
1L1	19:52:28	0.71835	0.74651	0.77191	0.78141	0.71948	0.69639	0.76360	0.74500	0.86630	0.88002
1L1	19:52:52	0.71834	0.74647	0.77193	0.78147	0.71939	0.69638	0.76365	0.74499	0.86627	0.88001
1L1	19:53:50	0.71837	0.74648	0.77195	0.78141	0.71946	0.69639	0.76358	0.74498	0.86634	0.88002
1L1	19:55:50	0.71837	0.74648	0.77196	0.78145	0.71947	0.69637	0.76357	0.74496	0.86632	0.88005
1L2	19:57:26	0.71838	0.74652	0.77192	0.78144	0.71947	0.69637	0.76357	0.74498	0.86634	0.87998
1L2	19:58:18	0.71837	0.74648	0.77192	0.78144	0.71948	0.69635	0.76357	0.74494	0.86636	0.88000
1L2	19:59:05	0.71838	0.74648	0.77191	0.78142	0.71943	0.69636	0.76357	0.74497	0.86640	0.88000
1L2	20:00:55	0.71841	0.74653	0.77191	0.78143	0.71943	0.69636	0.76356	0.74495	0.86632	0.88011
1L3	20:02:20	0.71839	0.74649	0.77191	0.78150	0.71943	0.69637	0.76356	0.74494	0.86632	0.87998
1L3	20:02:50	0.71842	0.74649	0.77192	0.78149	0.71945	0.69635	0.76355	0.74493	0.86630	0.87998
1L3	20:03:50	0.71839	0.74651	0.77191	0.78147	0.71945	0.69636	0.76358	0.74495	0.86631	0.88000
1L3	20:05:50	0.71840	0.74651	0.77192	0.78153	0.71947	0.69635	0.76356	0.74493	0.86636	0.88008
1L4	20:07:08	0.71840	0.74648	0.77189	0.78141	0.71939	0.69629	0.76352	0.74479	0.86642	0.87984
1L4	20:07:38	0.71840	0.74651	0.77191	0.78142	0.71933	0.69629	0.76355	0.74476	0.86635	0.87987
1L4	20:08:45	0.71839	0.74649	0.77191	0.78142	0.71945	0.69630	0.76357	0.74480	0.86639	0.87990
1L4	20:10:38	0.71842	0.74650	0.77192	0.78153	0.71944	0.69632	0.76357	0.74480	0.86632	0.87991
1L5	20:12:09	0.71836	0.74649	0.77189	0.78139	0.71945	0.69625	0.76349	0.74460	0.86549	0.87988
1L5	20:12:39	0.71838	0.74647	0.77189	0.78139	0.71946	0.69623	0.76351	0.74459	0.86565	0.87980
1L5	20:13:41	0.71838	0.74648	0.77189	0.78142	0.71944	0.69627	0.76352	0.74461	0.86596	0.87982
1L5	20:15:38	0.71839	0.74649	0.77189	0.78143	0.71947	0.69626	0.76352	0.74463	0.86563	0.87984
1L6	20:16:53	0.71834	0.74644	0.77187	0.78138	0.71941	0.69624	0.76343	0.74459	0.86546	0.87980
1L6	20:17:24	0.71836	0.74649	0.77189	0.78146	0.71943	0.69629	0.76346	0.74460	0.86564	0.87981
1L6	20:18:24	0.71839	0.74648	0.77190	0.78141	0.71944	0.69627	0.76344	0.74460	0.86574	0.87978
1L6	20:20:24	0.71839	0.74651	0.77190	0.78137	0.71943	0.69627	0.76344	0.74459	0.86557	0.87986
1L7	20:21:50	0.71834	0.74651	0.77187	0.78137	0.71980	0.69602	0.76417	0.74404	0.86700	0.87813
1L7	20:22:18	0.71834	0.74650	0.77185	0.78134	0.71971	0.69598	0.76418	0.74398	0.86707	0.87816
1L7	20:23:19	0.71833	0.74652	0.77187	0.78134	0.71976	0.69590	0.76421	0.74398	0.86710	0.87809
1L7	20:25:18	0.71838	0.74653	0.77191	0.78133	0.71982	0.69585	0.76423	0.74395	0.86708	0.87815
1L8	20:26:32	0.71838	0.74649	0.77192	0.78121	0.71984	0.69573	0.76377	0.74427	0.86548	0.87967
1L8	20:28:03	0.71843	0.74643	0.77186	0.78115	0.71966	0.69563	0.76364	0.74435	0.86548	0.87977
1L8	20:30:01	0.71845	0.74647	0.77192	0.78116	0.71976	0.69588	0.76372	0.74441	0.86641	0.87982
1U1	20:31:38	0.71874	0.74733	0.77296	0.78234	0.72069	0.69736	0.76490	0.74599	0.86885	0.88225
1U1	20:32:04	0.71876	0.74734	0.77295	0.78232	0.72070	0.69735	0.76486	0.74597	0.86880	0.88220
1U1	20:33:01	0.71874	0.74733	0.77293	0.78228	0.72065	0.69732	0.76479	0.74593	0.86889	0.88225
1U1	20:35:03	0.71874	0.74731	0.77288	0.78226	0.72053	0.69729	0.76467	0.74589	0.86801	0.88219
2L0	20:35:57	0.71874	0.74727	0.77284	0.78228	0.72061	0.69729	0.76462	0.74586	0.86765	0.88224
2L1	20:37:33	0.71876	0.74728	0.77283	0.78225	0.72058	0.69726	0.76455	0.74580	0.86730	0.88203
2L1	20:38:27	0.71873	0.74726	0.77281	0.78222	0.72058	0.69723	0.76453	0.74577	0.86726	0.88206
2L1	20:39:06	0.71872	0.74724	0.77281	0.78224	0.72052	0.69723	0.76452	0.74576	0.86729	0.88198

Table F.9 continued

VIBRATING WIRE INSTRUMENT READINGS - STRAIN

BKM 1 LOAD NUMBER	TIME	VW STRN FREQ^2 KHZ^2 43	VW STRN FREQ^2 KHZ^2 44	VW STRN FREQ^2 KHZ^2 55	VW STRN FREQ^2 KHZ^2 56	VW STRN FREQ^2 KHZ^2 57	VW STRN FREQ^2 KHZ^2 58	VW STRN FREQ^2 KHZ^2 59	VW STRN FREQ^2 KHZ^2 60	VW STRN FREQ^2 KHZ^2 61	VW STRN FREQ KHZ^2 62
2L1	20:41:02	0.71870	0.74723	0.77280	0.78222	0.72048	0.69720	0.76447	0.74572	0.86732	0.88202
2L2	20:42:31	0.71874	0.74720	0.77276	0.78220	0.72027	0.69714	0.76442	0.74563	0.86737	0.88186
2L2	20:43:04	0.71871	0.74719	0.77276	0.78219	0.72029	0.69717	0.76439	0.74563	0.86731	0.88186
2L2	20:43:59	0.71873	0.74720	0.77276	0.78219	0.72028	0.69715	0.76439	0.74560	0.86731	0.88185
2L2	20:45:59	0.71873	0.74717	0.77272	0.78217	0.72023	0.69713	0.76435	0.74558	0.86796	0.88183
2L3	20:47:14	0.71874	0.74709	0.77264	0.78207	0.72023	0.69705	0.76424	0.74543	0.86780	0.88150
2L3	20:47:43	0.71873	0.74709	0.77263	0.78206	0.72069	0.69704	0.76423	0.74546	0.86778	0.88151
2L3	20:48:44	0.71876	0.74710	0.77264	0.78206	0.72061	0.69703	0.76422	0.74545	0.86775	0.88149
2L3	20:50:43	0.71876	0.74706	0.77263	0.78205	0.72071	0.69702	0.76421	0.74544	0.86766	0.88152
2L4	20:52:04	0.71865	0.74675	0.77219	0.78162	0.72005	0.69653	0.76396	0.74484	0.86699	0.88070
2L4	20:52:32	0.71870	0.74674	0.77218	0.78161	0.72004	0.69651	0.76396	0.74483	0.86701	0.88073
2L4	20:53:37	0.71865	0.74672	0.77217	0.78158	0.72011	0.69651	0.76397	0.74479	0.86700	0.88077
2L4	20:55:33	0.71865	0.74672	0.77217	0.78161	0.72009	0.69649	0.76395	0.74477	0.86700	0.88069
2L5	20:57:03	0.71852	0.74653	0.77194	0.78118	0.71954	0.69591	0.76346	0.74434	0.86635	0.87984
2L5	20:57:32	0.71851	0.74653	0.77193	0.78118	0.71955	0.69591	0.76344	0.74436	0.86632	0.87983
2L5	20:58:32	0.71855	0.74652	0.77195	0.78117	0.71954	0.69587	0.76343	0.74435	0.86642	0.87985
2L5	21:00:31	0.71854	0.74651	0.77197	0.78118	0.71957	0.69594	0.76343	0.74435	0.86636	0.87986
2L6	21:02:37	0.71849	0.74644	0.77184	0.78112	0.71945	0.69570	0.76334	0.74406	0.86634	0.87957
2L6i	21:03:08	0.71851	0.74639	0.77173	0.78098	0.71922	0.69569	0.76335	0.74413	0.86640	0.87952
2L6ii	21:03:52	0.71854	0.74634	0.77176	0.78094	0.71912	0.69577	0.76329	0.74417	0.86648	0.87954
2L6A	21:05:10	0.71858	0.74638	0.77185	0.78097	0.71921	0.69573	0.76329	0.74425	0.86630	0.87971
2L6B	21:06:08	0.71858	0.74640	0.77188	0.78098	0.71919	0.69573	0.76330	0.74424	0.86631	0.87977
2L6C	21:08:07	0.71860	0.74638	0.77189	0.78100	0.71925	0.69574	0.76331	0.74427	0.86637	0.87974
2L6D	21:10:09	0.71860	0.74643	0.77189	0.78101	0.71936	0.69575	0.76332	0.74427	0.86631	0.87979
2U1	21:14:46	0.71872	0.74665	0.77226	0.78163	0.72024	0.69640	0.76403	0.74481	0.86704	0.88057
2U2	21:19:03	0.71917	0.74740	0.77369	0.78255	0.72127	0.69739	0.76542	0.74577	0.86892	0.88192
2U3	21:23:52	0.71926	0.74811	0.77431	0.78356	0.72218	0.69846	0.76598	0.74686	0.87015	0.88293
2U4	21:27:43	0.71928	0.74832	0.77454	0.78341	0.72193	0.69860	0.76611	0.74701	0.86971	0.88302
2U4B	21:30:28	0.71928	0.74830	0.77447	0.78346	0.72187	0.69851	0.76609	0.74700	0.86976	0.88305
2U4C	21:34:44	0.71930	0.74829	0.77437	0.78329	0.72186	0.69844	0.76599	0.74691	0.86966	0.88299

Table F.9 continued

VIBRATING WIRE INSTRUMENT READINGS - TEMPERATURE

BKM 1 LOAD NUMBER	TIME	VW STRN TEMP DEG C 43	VW STRN TEMP DEG C 44	VW STRN TEMP DEG C 55	VW STRN TEMP DEG C 56	VW STRN TEMP DEG C 57	VW STRN TEMP DEG C 58	VW STRN TEMP DEG C 59	VW STRN TEMP DEG C 60	VW STRN TEMP DEG C 61	VW STRN TEMP DEG C 62
1L0	15:42:44	22.503	22.036	20.562	20.320	20.199	20.078	20.806	20.714	22.098	21.881
1L0	16:16:54	22.417	21.982	20.569	20.387	20.296	20.206	20.966	20.874	22.261	22.044
1L0	17:46:06	22.198	21.857	20.568	20.447	20.508	20.417	21.179	21.148	22.541	22.292
1L0	19:48:26	21.951	21.611	20.539	20.479	20.692	20.631	21.426	21.395	22.699	22.480
1L1	19:52:28	21.949	21.609	20.538	20.477	20.690	20.629	21.424	21.394	22.698	22.479
1L1	19:52:52	21.949	21.609	20.538	20.477	20.690	20.629	21.424	21.394	22.698	22.510
1L1	19:53:50	21.949	21.609	20.538	20.476	20.689	20.628	21.423	21.392	22.697	22.477
1L1	19:55:50	21.917	21.608	20.537	20.476	20.719	20.628	21.423	21.392	22.697	22.509
1L2	19:57:26	21.918	21.609	20.538	20.477	20.720	20.629	21.424	21.393	22.697	22.510
1L2	19:58:18	21.918	21.609	20.538	20.477	20.720	20.659	21.424	21.393	22.697	22.510
1L2	19:59:05	21.918	21.609	20.538	20.477	20.720	20.659	21.424	21.393	22.697	22.510
1L2	20:00:55	21.917	21.577	20.537	20.476	20.719	20.658	21.423	21.392	22.728	22.508
1L3	20:02:20	21.917	21.577	20.537	20.476	20.719	20.658	21.423	21.392	22.728	22.508
1L3	20:02:50	21.918	21.578	20.507	20.477	20.720	20.659	21.424	21.393	22.697	22.509
1L3	20:03:50	21.918	21.578	20.537	20.477	20.720	20.659	21.424	21.393	22.697	22.509
1L3	20:05:50	21.919	21.579	20.538	20.478	20.721	20.660	21.425	21.394	22.730	22.510
1L4	20:07:08	21.919	21.579	20.508	20.478	20.721	20.660	21.425	21.394	22.698	22.510
1L4	20:07:38	21.919	21.579	20.508	20.478	20.721	20.660	21.456	21.394	22.730	22.510
1L4	20:08:45	21.917	21.577	20.507	20.476	20.719	20.659	21.423	21.393	22.728	22.509
1L4	20:10:38	21.917	21.547	20.507	20.476	20.719	20.659	21.454	21.423	22.728	22.509
1L5	20:12:09	21.918	21.548	20.508	20.477	20.720	20.660	21.424	21.394	22.729	22.510
1L5	20:12:39	21.918	21.578	20.508	20.477	20.720	20.660	21.455	21.394	22.729	22.510
1L5	20:13:41	21.918	21.578	20.508	20.477	20.720	20.660	21.424	21.394	22.729	22.510
1L5	20:15:38	21.919	21.548	20.508	20.478	20.721	20.660	21.456	21.394	22.730	22.511
1L6	20:16:53	21.888	21.548	20.508	20.478	20.721	20.660	21.456	21.425	22.730	22.511
1L6	20:17:24	21.918	21.547	20.507	20.477	20.720	20.659	21.455	21.393	22.729	22.509
1L6	20:18:24	21.918	21.547	20.507	20.477	20.720	20.659	21.455	21.424	22.729	22.509
1L6	20:20:24	21.888	21.548	20.508	20.477	20.721	20.660	21.455	21.425	22.729	22.510
1L7	20:21:50	21.888	21.548	20.508	20.477	20.721	20.660	21.455	21.425	22.729	22.510
1L7	20:22:18	21.888	21.548	20.508	20.477	20.721	20.660	21.455	21.425	22.729	22.510
1L7	20:23:19	21.888	21.549	20.509	20.478	20.752	20.660	21.456	21.425	22.730	22.511
1L7	20:25:18	21.888	21.549	20.509	20.478	20.752	20.660	21.456	21.425	22.730	22.511
1L8	20:26:32	21.889	21.549	20.509	20.479	20.752	20.661	21.457	21.426	22.762	22.511
1L8	20:28:03	21.889	21.549	20.509	20.479	20.752	20.661	21.457	21.426	22.731	22.511
1L8	20:30:01	21.889	21.549	20.510	20.479	20.753	20.661	21.457	21.426	22.763	22.543
1U1	20:31:38	21.889	21.549	20.510	20.479	20.753	20.692	21.488	21.426	22.731	22.543
1U1	20:32:04	21.888	21.548	20.508	20.478	20.751	20.690	21.455	21.425	22.761	22.542
1U1	20:33:01	21.888	21.548	20.508	20.478	20.751	20.660	21.455	21.425	22.761	22.542
1U1	20:35:03	21.888	21.548	20.509	20.478	20.752	20.691	21.456	21.425	22.762	22.542
2L0	20:35:57	21.888	21.548	20.509	20.478	20.752	20.691	21.456	21.425	22.762	22.542
2L1	20:37:33	21.857	21.548	20.509	20.478	20.752	20.691	21.487	21.456	22.762	22.511
2L1	20:38:27	21.858	21.549	20.509	20.479	20.752	20.692	21.487	21.457	22.762	22.543
2L1	20:39:06	21.858	21.518	20.509	20.479	20.752	20.692	21.457	21.457	22.762	22.543

Table F.9 continued

VIBRATING WIRE INSTRUMENT READINGS - TEMPERATURE

BKM 1 LOAD NUMBER	TIME	VW STRN TEMP DEG C 43	VW STRN TEMP DEG C 44	VW STRN TEMP DEG C 55	VW STRN TEMP DEG C 56	VW STRN TEMP DEG C 57	VW STRN TEMP DEG C 58	VW STRN TEMP DEG C 59	VW STRN TEMP DEG C 60	VW STRN TEMP DEG C 61	VW STRN TEMP DEG C 62
2L1	20:41:02	21.858	21.519	20.509	20.479	20.753	20.692	21.488	21.457	22.763	22.543
2L2	20:42:31	21.858	21.519	20.509	20.479	20.783	20.692	21.488	21.457	22.763	22.543
2L2	20:43:04	21.858	21.519	20.509	20.479	20.753	20.692	21.488	21.457	22.763	22.543
2L2	20:43:59	21.859	21.550	20.510	20.480	20.784	20.692	21.488	21.458	22.763	22.544
2L2	20:45:59	21.859	21.519	20.510	20.480	20.784	20.692	21.488	21.458	22.763	22.544
2L3	20:47:14	21.859	21.519	20.510	20.480	20.784	20.693	21.489	21.458	22.763	22.544
2L3	20:47:43	21.859	21.519	20.510	20.480	20.784	20.693	21.489	21.458	22.763	22.544
2L3	20:48:44	21.859	21.519	20.510	20.480	20.784	20.693	21.489	21.458	22.763	22.544
2L3	20:50:43	21.859	21.520	20.510	20.480	20.784	20.693	21.489	21.458	22.764	22.544
2L4	20:52:04	21.859	21.520	20.510	20.480	20.784	20.693	21.489	21.458	22.764	22.544
2L4	20:52:32	21.859	21.518	20.509	20.478	20.782	20.691	21.487	21.456	22.762	22.542
2L4	20:53:37	21.857	21.518	20.509	20.478	20.782	20.691	21.487	21.456	22.762	22.542
2L4	20:55:33	21.858	21.518	20.509	20.479	20.783	20.722	21.487	21.457	22.762	22.543
2L5	20:57:03	21.858	21.518	20.509	20.479	20.783	20.722	21.518	21.457	22.762	22.543
2L5	20:57:32	21.858	21.487	20.509	20.479	20.783	20.722	21.518	21.457	22.762	22.543
2L5	20:58:32	21.858	21.488	20.509	20.479	20.783	20.722	21.519	21.457	22.763	22.543
2L5	21:00:31	21.828	21.519	20.509	20.479	20.783	20.722	21.519	21.457	22.763	22.543
2L6	21:02:37	21.857	21.486	20.508	20.478	20.782	20.721	21.517	21.455	22.761	22.542
2L6i	21:03:08	21.826	21.486	20.508	20.478	20.782	20.721	21.517	21.455	22.761	22.542
2L6ii	21:03:52	21.826	21.486	20.508	20.478	20.782	20.721	21.517	21.486	22.761	22.542
2L6A	21:05:10	21.824	21.485	20.507	20.476	20.780	20.719	21.516	21.485	22.760	22.540
2L6B	21:06:08	21.824	21.485	20.507	20.476	20.780	20.719	21.516	21.485	22.760	22.540
2L6C	21:08:07	21.825	21.486	20.508	20.477	20.781	20.720	21.517	21.486	22.761	22.541
2L6D	21:10:09	21.825	21.485	20.506	20.476	20.780	20.719	21.515	21.485	22.759	22.540
2U1	21:14:46	21.825	21.455	20.507	20.477	20.812	20.720	21.516	21.486	22.760	22.541
2U2	21:19:03	21.792	21.453	20.505	20.475	20.779	20.718	21.514	21.483	22.758	22.539
2U3	21:23:52	21.791	21.452	20.474	20.474	20.809	20.717	21.513	21.483	22.757	22.538
2U4	21:27:43	21.793	21.453	20.505	20.474	20.809	20.718	21.545	21.514	22.758	22.538
2U4B	21:30:28	21.792	21.452	20.474	20.474	20.809	20.748	21.545	21.514	22.757	22.538
2U4C	21:34:44	21.792	21.453	20.475	20.475	20.810	20.749	21.546	21.515	22.759	22.539

Table F.9 continued

VIBRATING WIRE CALCULATED STRAIN INCREMENTS

BKM 1 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 43	VW STRN MICRO STRAIN 44	VW STRN MICRO STRAIN 55	VW STRN MICRO STRAIN 56	VW STRN MICRO STRAIN 57	VW STRN MICRO STRAIN 58	VW STRN MICRO STRAIN 59	VW STRN MICRO STRAIN 60	VW STRN MICRO STRAIN 61	VW STRN MICRO STRAIN 62
1L0	15:42:44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1L0	16:16:54	0.1	0.3	0.1	-0.1	-0.9	-0.0	0.7	0.6	1.0	0.9
1L0	17:46:06	0.3	-0.0	0.5	-0.3	1.0	1.1	2.0	1.4	1.9	2.1
1L0	19:48:26	3.0	5.7	8.0	6.1	8.0	7.0	8.1	6.5	11.3	9.8
1L1	19:52:28	2.9	5.7	8.0	6.2	8.0	6.9	8.1	6.5	11.2	9.9
1L1	19:52:52	3.0	5.8	8.0	6.0	8.3	7.0	7.9	6.5	11.3	9.9
1L1	19:53:50	2.9	5.8	7.9	6.2	8.1	6.9	8.1	6.5	11.0	9.9
1L1	19:55:50	2.9	5.8	7.9	6.1	8.0	7.0	8.2	6.6	11.1	9.8
1L2	19:57:26	2.9	5.6	8.0	6.1	8.0	7.0	8.2	6.5	11.0	10.0
1L2	19:58:18	2.9	5.8	8.0	6.1	8.0	7.0	8.2	6.7	11.0	9.9
1L2	19:59:05	2.9	5.8	8.0	6.2	8.1	7.0	8.2	6.6	10.9	9.9
1L2	20:00:55	2.8	5.7	8.0	6.1	8.1	7.0	8.2	6.6	11.1	9.6
1L3	20:02:20	2.8	5.8	8.0	5.9	8.1	7.0	8.2	6.7	11.1	10.0
1L3	20:02:50	2.7	5.8	8.1	5.9	8.1	7.0	8.2	6.7	11.2	10.0
1L3	20:03:50	2.8	5.7	8.0	6.0	8.1	7.0	8.1	6.6	11.1	9.9
1L3	20:05:50	2.8	5.7	8.0	5.8	8.0	7.0	8.2	6.7	10.9	9.7
1L4	20:07:08	2.8	5.8	8.2	6.2	8.3	7.2	8.3	7.2	10.8	10.4
1L4	20:07:38	2.8	5.7	8.1	6.2	8.5	7.2	8.2	7.3	11.0	10.3
1L4	20:08:45	2.8	5.8	8.1	6.2	8.1	7.2	8.2	7.1	10.8	10.2
1L4	20:10:38	2.7	5.8	8.1	5.8	8.1	7.1	8.1	7.1	11.1	10.2
1L5	20:12:09	2.9	5.8	8.2	6.3	8.1	7.4	8.4	7.8	13.8	10.3
1L5	20:12:39	2.9	5.9	8.2	6.3	8.0	7.4	8.3	7.8	13.3	10.6
1L5	20:13:41	2.9	5.8	8.2	6.2	8.1	7.3	8.3	7.8	12.3	10.5
1L5	20:15:38	2.8	5.8	8.2	6.1	8.0	7.3	8.3	7.7	13.4	10.4
1L6	20:16:53	3.0	6.0	8.2	6.3	8.2	7.4	8.6	7.8	13.9	10.6
1L6	20:17:24	2.9	5.8	8.2	6.0	8.1	7.2	8.5	7.8	13.3	10.5
1L6	20:18:24	2.8	5.9	8.1	6.2	8.1	7.3	8.5	7.8	13.0	10.6
1L6	20:20:24	2.9	5.8	8.1	6.3	8.1	7.3	8.5	7.8	13.6	10.4
1L7	20:21:50	3.0	5.8	8.2	6.3	6.9	8.1	6.1	9.6	8.8	16.1
1L7	20:22:18	3.0	5.8	8.3	6.4	7.2	8.2	6.1	9.8	8.6	16.0
1L7	20:23:19	3.1	5.7	8.2	6.4	7.0	8.5	6.0	9.8	8.5	16.2
1L7	20:25:18	2.9	5.7	8.1	6.5	6.8	8.7	5.9	9.9	8.6	16.0
1L8	20:26:32	2.9	5.8	8.1	6.9	6.7	9.1	7.5	8.8	13.8	11.0
1L8	20:28:03	2.7	6.0	8.2	7.1	7.3	9.4	7.9	8.6	13.8	10.7
1L8	20:30:01	2.7	5.9	8.0	7.0	7.0	8.6	7.6	8.4	10.7	10.5
1U1	20:31:38	1.7	3.0	4.6	3.1	3.9	3.6	3.7	3.2	2.7	2.4
1U1	20:32:04	1.7	3.0	4.6	3.2	3.9	3.7	3.9	3.2	2.8	2.6
1U1	20:33:01	1.7	3.0	4.7	3.3	4.1	3.8	4.1	3.4	2.5	2.4
1U1	20:35:03	1.7	3.1	4.9	3.4	4.5	3.9	4.5	3.5	5.4	2.6
2L0	20:35:57	1.7	3.2	5.0	3.3	4.2	3.9	4.6	3.6	6.6	2.5
2L1	20:37:33	1.7	3.2	5.0	3.4	4.3	4.0	4.8	3.7	7.8	3.2
2L1	20:38:27	1.8	3.3	5.1	3.5	4.3	4.1	4.9	3.8	7.9	3.1
2L1	20:39:06	1.8	3.4	5.1	3.5	4.5	4.1	5.0	3.9	7.8	3.3

Table F.9 continued

VIBRATING WIRE CALCULATED STRAIN INCREMENTS

BKM 1 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 43	VW STRN MICRO STRAIN 44	VW STRN MICRO STRAIN 55	VW STRN MICRO STRAIN 56	VW STRN MICRO STRAIN 57	VW STRN MICRO STRAIN 58	VW STRN MICRO STRAIN 59	VW STRN MICRO STRAIN 60	VW STRN MICRO STRAIN 61	VW STRN MICRO STRAIN 62
2L1	20:41:02	1.9	3.4	5.1	3.5	4.6	4.2	5.1	4.0	7.7	3.2
2L2	20:42:31	1.8	3.5	5.3	3.6	5.3	4.4	5.3	4.3	7.6	3.7
2L2	20:43:04	1.9	3.5	5.3	3.6	5.3	4.3	5.4	4.3	7.8	3.7
2L2	20:43:59	1.8	3.5	5.3	3.6	5.3	4.3	5.4	4.4	7.8	3.8
2L2	20:45:59	1.8	3.6	5.4	3.7	5.4	4.4	5.5	4.5	5.6	3.8
2L3	20:47:14	1.8	3.9	5.7	4.0	5.4	4.7	5.9	5.0	6.1	4.9
2L3	20:47:43	1.8	3.9	5.7	4.1	3.9	4.7	5.9	4.9	6.2	4.9
2L3	20:48:44	1.7	3.8	5.7	4.1	4.2	4.7	5.9	4.9	6.3	4.9
2L3	20:50:43	1.7	4.0	5.7	4.1	3.8	4.8	6.0	4.9	6.6	4.9
2L4	20:52:04	2.1	5.0	7.2	5.5	6.0	6.4	6.8	6.9	8.8	7.6
2L4	20:52:32	1.9	5.0	7.2	5.5	6.0	6.5	6.8	6.9	8.8	7.5
2L4	20:53:37	2.1	5.1	7.2	5.6	5.8	6.5	6.8	7.1	8.8	7.3
2L4	20:55:33	2.1	5.1	7.2	5.5	5.9	6.5	6.8	7.1	8.8	7.6
2L5	20:57:03	2.5	5.7	8.0	7.0	7.7	8.4	8.4	8.6	10.9	10.4
2L5	20:57:32	2.5	5.8	8.0	7.0	7.7	8.4	8.5	8.5	11.0	10.4
2L5	20:58:32	2.4	5.8	8.0	7.0	7.7	8.5	8.5	8.5	10.7	10.4
2L5	21:00:31	2.5	5.8	7.9	7.0	7.6	8.3	8.5	8.5	10.9	10.3
2L6	21:02:37	2.6	6.1	8.3	7.2	8.0	9.1	8.8	9.5	11.0	11.3
2L6i	21:03:08	2.6	6.2	8.7	7.6	8.8	9.1	8.8	9.3	10.8	11.5
2L6ii	21:03:52	2.5	6.4	8.6	7.8	9.1	8.9	9.0	9.1	10.5	11.4
2L6A	21:05:10	2.3	6.3	8.3	7.7	8.8	9.0	9.0	8.8	11.1	10.8
2L6B	21:06:08	2.3	6.2	8.2	7.6	8.9	9.0	8.9	8.9	11.1	10.6
2L6C	21:08:07	2.3	6.3	8.2	7.6	8.7	9.0	8.9	8.8	10.9	10.7
2L6D	21:10:09	2.3	6.1	8.2	7.5	8.3	8.9	8.9	8.8	11.1	10.6
2U1	21:14:46	1.9	5.4	6.9	5.5	5.3	6.8	6.5	7.0	8.7	8.0
2U2	21:19:03	0.4	2.9	2.2	2.4	2.0	3.5	1.9	3.8	2.4	3.5
2U3	21:23:52	0.1	0.6	0.2	-0.9	-1.1	-0.0	0.1	0.2	-1.6	0.2
2U4	21:27:43	0.1	-0.1	-0.6	-0.4	-0.2	-0.5	-0.4	-0.3	-0.2	-0.1
2U4B	21:30:28	0.1	-0.0	-0.3	-0.6	-0.0	-0.2	-0.3	-0.3	-0.3	-0.2
2U4C	21:34:44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table F.9 continued

VIBRATING WIRE CALCULATED STRAIN (4 MINUTE READINGS)

BKM 1 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 43	VW STRN MICRO STRAIN 44	VW STRN MICRO STRAIN 55	VW STRN MICRO STRAIN 56	VW STRN MICRO STRAIN 57	VW STRN MICRO STRAIN 58	VW STRN MICRO STRAIN 59	VW STRN MICRO STRAIN 60	VW STRN MICRO STRAIN 61	VW STRN MICRO STRAIN 62
2L0	20:35:57	1.7	3.2	5.0	3.3	4.2	3.9	4.6	3.6	6.6	2.5
2L1	20:41:02	1.9	3.4	5.1	3.5	4.6	4.2	5.1	4.0	7.7	3.2
2L2	20:45:59	1.8	3.6	5.4	3.7	5.4	4.4	5.5	4.5	5.6	3.8
2L3	20:50:43	1.7	4.0	5.7	4.1	3.8	4.8	6.0	4.9	6.6	4.9
2L4	20:55:33	2.1	5.1	7.2	5.5	5.9	6.5	6.8	7.1	8.8	7.6
2L5	21:00:31	2.5	5.8	7.9	7.0	7.6	8.3	8.5	8.5	10.9	10.3
2L6	21:02:37	2.6	6.1	8.3	7.2	8.0	9.1	8.8	9.5	11.0	11.3
2L6i	21:03:08	2.6	6.2	8.7	7.6	8.8	9.1	8.8	9.3	10.8	11.5
2L6ii	21:03:52	2.5	6.4	8.6	7.8	9.1	8.9	9.0	9.1	10.5	11.4
2L6A	21:05:10	2.3	6.3	8.3	7.7	8.8	9.0	9.0	8.8	11.1	10.8
2L6B	21:06:08	2.3	6.2	8.2	7.6	8.9	9.0	8.9	8.9	11.1	10.6
2L6C	21:08:07	2.3	6.3	8.2	7.6	8.7	9.0	8.9	8.8	10.9	10.7
2L6D	21:10:09	2.3	6.1	8.2	7.5	8.3	8.9	8.9	8.8	11.1	10.6
2U1	21:14:46	1.9	5.4	6.9	5.5	5.3	6.8	6.5	7.0	8.7	8.0
2U2	21:19:03	0.4	2.9	2.2	2.4	2.0	3.5	1.9	3.8	2.4	3.5
2U3	21:23:52	0.1	0.6	0.2	-0.9	-1.1	-0.0	0.1	0.2	-1.6	0.2
2U4	21:27:43	0.1	-0.1	-0.6	-0.4	-0.2	-0.5	-0.4	-0.3	-0.2	-0.1
2U4B	21:30:28	0.1	-0.0	-0.3	-0.6	-0.0	-0.2	-0.3	-0.3	-0.3	-0.2
2U4C	21:34:44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table F.9 continued

AVERAGE STRAIN AT EACH GAGE LEVEL, INTEGRATED PILE COMPRESSION & COMPARISON WITH TELLTALE MEASUREMENT (4 MINUTE READINGS)

BKM 1 LOAD NUMBER	AVG VW MICRO STRAIN SURFACE	AVG VW MICRO STRAIN 43+44	AVG VW MICRO STRAIN 55+56	AVG VW MICRO STRAIN 57+58	AVG VW MICRO STRAIN 59+60	AVG VW MICRO STRAIN 61+62	EST'D. MICRO STRAIN CELL TOP	PILE COMPRESSION SG MSMT. INCHES	PILE COMPRESSION TT MSMT. INCHES	ABS.DIFF. SG-TT INCHES
2L0	0.0	2.5	4.2	4.0	4.1	4.6	2.9	0.0012	0.0000	0.0012
2L1	0.0	2.7	4.3	4.4	4.6	5.5	5.4	0.0013	0.0000	0.0013
2L2	0.0	2.7	4.6	4.9	5.0	4.7	7.2	0.0014	0.0000	0.0013
2L3	0.0	2.8	4.9	4.3	5.4	5.7	10.0	0.0014	0.0001	0.0013
2L4	0.0	3.6	6.4	6.2	7.0	8.2	13.8	0.0019	0.0004	0.0015
2L5	0.0	4.1	7.4	7.9	8.5	10.6	17.5	0.0023	0.0008	0.0016
2L6	0.0	4.3	7.7	8.5	9.1	11.1	18.0	0.0025	0.0009	0.0015
2L6i	0.0	4.4	8.2	8.9	9.0	11.1	17.3	0.0025	0.0009	0.0016
2L6ii	0.0	4.4	8.2	9.0	9.0	10.9	16.6	0.0025	0.0010	0.0015
2L6A	0.0	4.3	8.0	8.9	8.9	11.0	16.2	0.0025	0.0010	0.0015
2L6B	0.0	4.3	7.9	8.9	8.9	10.9	16.2	0.0025	0.0009	0.0015
2L6C	0.0	4.3	7.9	8.8	8.8	10.8	16.1	0.0024	0.0009	0.0015
2L6D	0.0	4.2	7.8	8.6	8.8	10.8	16.1	0.0024	0.0009	0.0015
2U1	0.0	3.6	6.2	6.1	6.7	8.3	12.5	0.0019	0.0004	0.0015
2U2	0.0	1.7	2.3	2.7	2.9	3.0	6.7	0.0008	-0.0006	0.0014
2U3	0.0	0.4	-0.3	-0.5	0.1	-0.7	1.6	-0.0000	-0.0011	0.0011
2U4	0.0	-0.0	-0.5	-0.4	-0.4	-0.1	-0.1	-0.0001	-0.0012	0.0011
2U4B	0.0	0.0	-0.4	-0.1	-0.3	-0.3	-0.2	-0.0001	-0.0012	0.0011
2U4C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0000	-0.0012	0.0012
ELEV. FT	14.22	8.17	2.17	-3.83	-8.83	-14.33	-14.83			

Table F.9 continued

VIBRATING WIRE CALCULATED AVERAGE LOADS (4 MINUTE READINGS)

LA = 5.50 ft ACA = 317.115 si
LB = 1.38 ft ACB = 313.155 si
B = 18.00 in ASA = 3.538 si
ES = 27500.0 ksi ASB = 7.498 si

BKM 1 LOAD NUMBER	AVG VW LOAD TONS SURFACE	AVG VW LOAD TONS 43+44	AVG VW LOAD TONS 55+56	AVG VW LOAD TONS 57+58	AVG VW LOAD TONS 59+60	AVG VW LOAD TONS 61+62	OSTERBERG LOAD TONS BOTTOM	INCR. PILE MODULUS KSI	INCR. PILE MODULUS KSI	INCR. PILE MODULUS KSI
2L0	0.0	1.52	2.55	2.47	2.52	3.00	0.0		3774.4	4067.1
2L1	0.0	1.62	2.65	2.69	2.78	3.60	3.5	24038.6	3774.4	4067.1
2L2	0.0	1.65	2.78	3.00	3.05	3.11	7.5	-33224.2	3774.4	4067.1
2L3	0.0	1.73	2.99	2.63	3.33	3.77	11.5	24212.1	3774.4	4067.1
2L4	0.0	2.19	3.90	3.78	4.27	5.40	15.5	10052.1	3774.4	4067.1
2L5	0.0	2.53	4.54	4.86	5.21	7.00	19.5	10131.1	3774.4	4067.1
2L6	0.0	2.65	4.73	5.22	5.59	7.33	19.7		3774.4	4067.1
2L6i	0.0	2.69	4.99	5.47	5.51	7.32	18.5		3774.4	4067.1
2L6ii	0.0	2.71	5.00	5.49	5.52	7.21	17.4		3774.4	4067.1
2L6A	0.0	2.63	4.88	5.44	5.44	7.23	16.8		3774.4	4067.1
2L6B	0.0	2.61	4.84	5.46	5.44	7.15	16.8		3774.4	4067.1
2L6C	0.0	2.61	4.80	5.39	5.40	7.12	16.8		3774.4	4067.1
2L6D	0.0	2.56	4.80	5.27	5.39	7.13	16.8		3774.4	4067.1
2U1	0.0	2.23	3.79	3.71	4.12	5.48	13.1		3774.4	4067.1
2U2	0.0	1.03	1.42	1.68	1.75	1.97	8.6		3774.4	4067.1
2U3	0.0	0.22	-0.21	-0.33	0.09	-0.47	3.8		3774.4	4067.1
2U4	0.0	-0.01	-0.30	-0.22	-0.22	-0.09	0.0		3774.4	4067.1
2U4B	0.0	0.01	-0.27	-0.08	-0.19	-0.17	0.0		3774.4	4067.1
2U4C	0.0	0.00	0.00	0.00	0.00	0.00	0.0		3774.4	4067.1

ELEV. FT	14.22	8.17	2.17	-3.83	-8.83	-14.33	-15.71	3549.5 KSI = CONCRETE MODULUS

Table F.9 continued

INTEGRATED MOVEMENT AT VW STRAIN GAGE (4 MINUTE READINGS)

BKM 1 LOAD NUMBER	VW MOVEMENT INCHES SURFACE	VW MOVEMENT INCHES 43+44	VW MOVEMENT INCHES 55+56	VW MOVEMENT INCHES 57+58	VW MOVEMENT INCHES 59+60	VW MOVEMENT INCHES 61+62	VW MOVEMENT INCHES CELL TOP
2L0	-0.0012	-0.0011	-0.0008	-0.0006	-0.0003	-0.0000	0.0000
2L1	-0.0013	-0.0012	-0.0009	-0.0006	-0.0004	-0.0000	0.0000
2L2	-0.0013	-0.0012	-0.0010	-0.0006	-0.0003	-0.0000	0.0000
2L3	-0.0013	-0.0012	-0.0010	-0.0006	-0.0003	0.0000	0.0001
2L4	-0.0015	-0.0014	-0.0010	-0.0006	-0.0002	0.0003	0.0004
2L5	0.0084	0.0086	0.0090	0.0096	0.0101	0.0107	0.0108
2L6	0.2485	0.2486	0.2491	0.2496	0.2502	0.2508	0.2509
2L6i	0.3984	0.3986	0.3990	0.3996	0.4002	0.4008	0.4009
2L6ii	0.5785	0.5786	0.5791	0.5797	0.5802	0.5809	0.5810
2L6A	0.7485	0.7487	0.7491	0.7497	0.7502	0.7509	0.7510
2L6B	0.7385	0.7386	0.7391	0.7397	0.7402	0.7408	0.7409
2L6C	0.7385	0.7386	0.7391	0.7397	0.7402	0.7408	0.7409
2L6D	0.7385	0.7386	0.7391	0.7397	0.7402	0.7408	0.7409
2U1	0.7385	0.7386	0.7390	0.7394	0.7398	0.7403	0.7404
2U2	0.7186	0.7187	0.7189	0.7190	0.7192	0.7194	0.7194
2U3	0.7089	0.7089	0.7089	0.7089	0.7089	0.7089	0.7089
2U4	0.7089	0.7089	0.7088	0.7088	0.7088	0.7088	0.7088
2U4B	0.7089	0.7089	0.7089	0.7088	0.7088	0.7088	0.7088
2U4C	0.7088	0.7088	0.7088	0.7088	0.7088	0.7088	0.7088

Table F.9 continued

INTEGRATED MOVEMENT AT SEGMENT CL (4 MINUTE READINGS)

BKM 1 LOAD NUMBER	AVG VW MOVEMENT INCHES	AVG VW MOVEMENT INCHES	AVG VW MOVEMENT INCHES	AVG VW MOVEMENT INCHES	AVG VW MOVEMENT INCHES
CL.ELEV.	11.20	5.17	-0.83	-6.33	-11.58
2L0	0.0000	0.0000	0.0000	0.0000	0.0000
2L1	0.0000	0.0000	0.0000	0.0000	0.0000
2L2	0.0000	0.0000	0.0000	0.0000	0.0000
2L3	0.0000	0.0000	0.0000	0.0000	0.0000
2L4	0.0000	0.0000	0.0000	0.0000	0.0001
2L5	0.0085	0.0088	0.0093	0.0098	0.0104
2L6	0.2485	0.2488	0.2493	0.2499	0.2505
2L6i	0.3985	0.3988	0.3993	0.3999	0.4005
2L6ii	0.5785	0.5788	0.5794	0.5800	0.5806
2L6A	0.7486	0.7489	0.7494	0.7500	0.7506
2L6B	0.7385	0.7388	0.7394	0.7399	0.7405
2L6C	0.7386	0.7388	0.7394	0.7399	0.7405
2L6D	0.7386	0.7389	0.7394	0.7399	0.7405
2U1	0.7386	0.7388	0.7392	0.7396	0.7401
2U2	0.7187	0.7188	0.7189	0.7191	0.7193
2U3	0.7089	0.7089	0.7089	0.7089	0.7089
2U4	0.7089	0.7089	0.7088	0.7088	0.7088
2U4B	0.7089	0.7089	0.7088	0.7088	0.7088
2U4C	0.7088	0.7088	0.7088	0.7088	0.7088

Table F.9 continued

AVERAGE SEGMENT SHEAR STRESS (4 MINUTE READINGS)

BKM 1 LOAD NUMBER	AVG VW SHEAR TSF	AVG VW SHEAR TSF	AVG VW SHEAR TSF	AVG VW SHEAR TSF	AVG VW SHEAR TSF
CL.ELEV.	11.20	5.17	-0.83	-6.33	-11.58
2L0	0.025	0.012	-0.019	-0.015	-0.002
2L1	0.028	0.012	-0.015	-0.013	0.008
2L2	0.029	0.015	-0.010	-0.015	-0.015
2L3	0.031	0.019	-0.027	0.007	-0.003
2L4	0.044	0.031	-0.020	-0.000	0.018
2L5	0.053	0.040	-0.008	-0.005	0.038
2L6	0.057	0.041	-0.003	-0.004	0.036
2L6i	0.058	0.047	-0.003	-0.015	0.039
2L6ii	0.058	0.047	-0.003	-0.015	0.035
2L6A	0.056	0.046	-0.001	-0.016	0.038
2L6B	0.056	0.045	0.001	-0.017	0.035
2L6C	0.055	0.045	-0.000	-0.016	0.036
2L6D	0.054	0.046	-0.003	-0.012	0.036
2U1	0.045	0.027	-0.019	-0.003	0.025
2U2	0.012	-0.006	-0.009	-0.014	-0.010
2U3	-0.010	-0.028	-0.020	-0.003	-0.033
2U4	-0.017	-0.025	-0.014	-0.016	-0.012
2U4B	-0.016	-0.024	-0.011	-0.020	-0.016
2U4C	-0.016	-0.016	-0.016	-0.016	-0.016

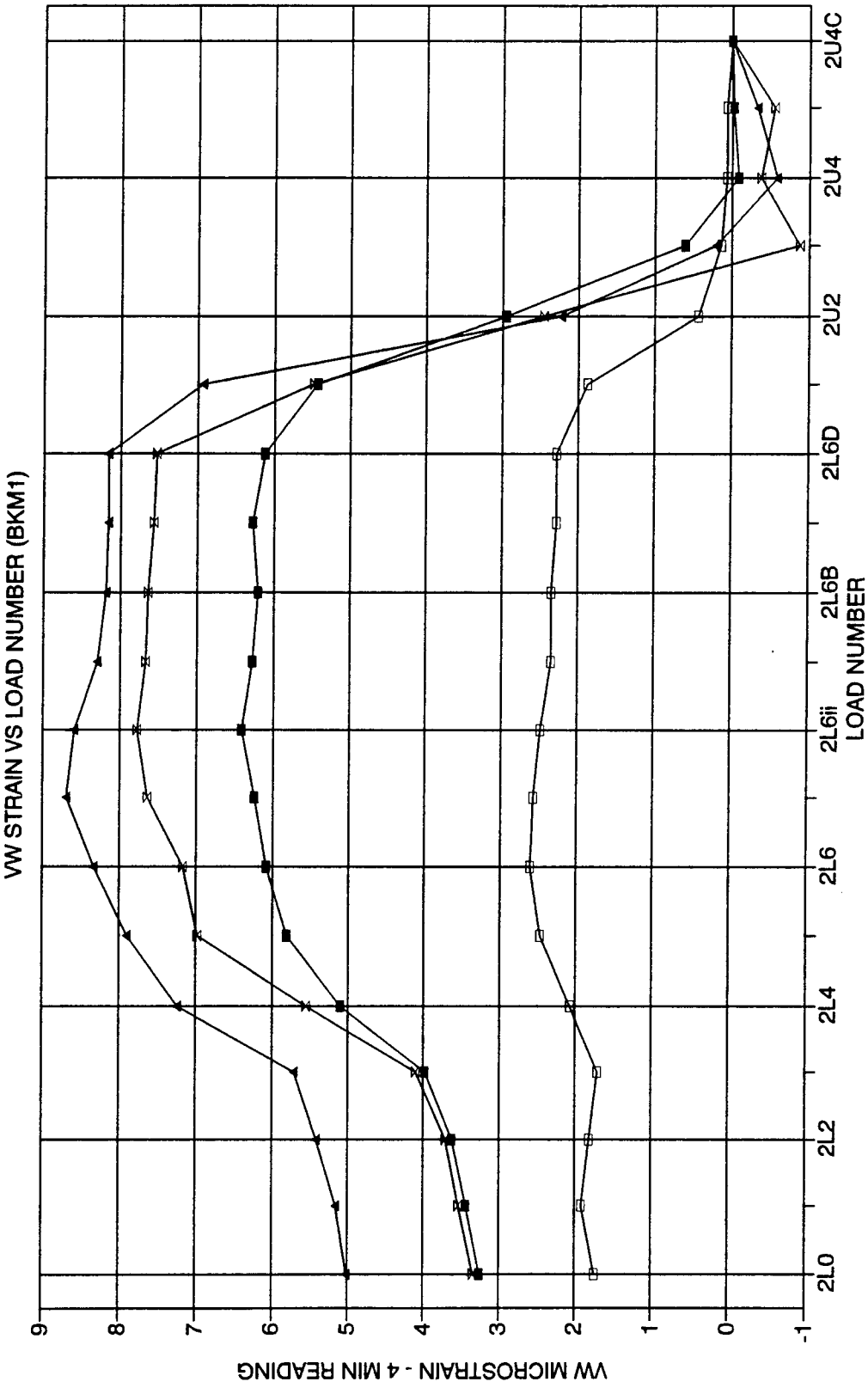

Figure F.35 Strain at Pile Top: Buckman Load Test 1

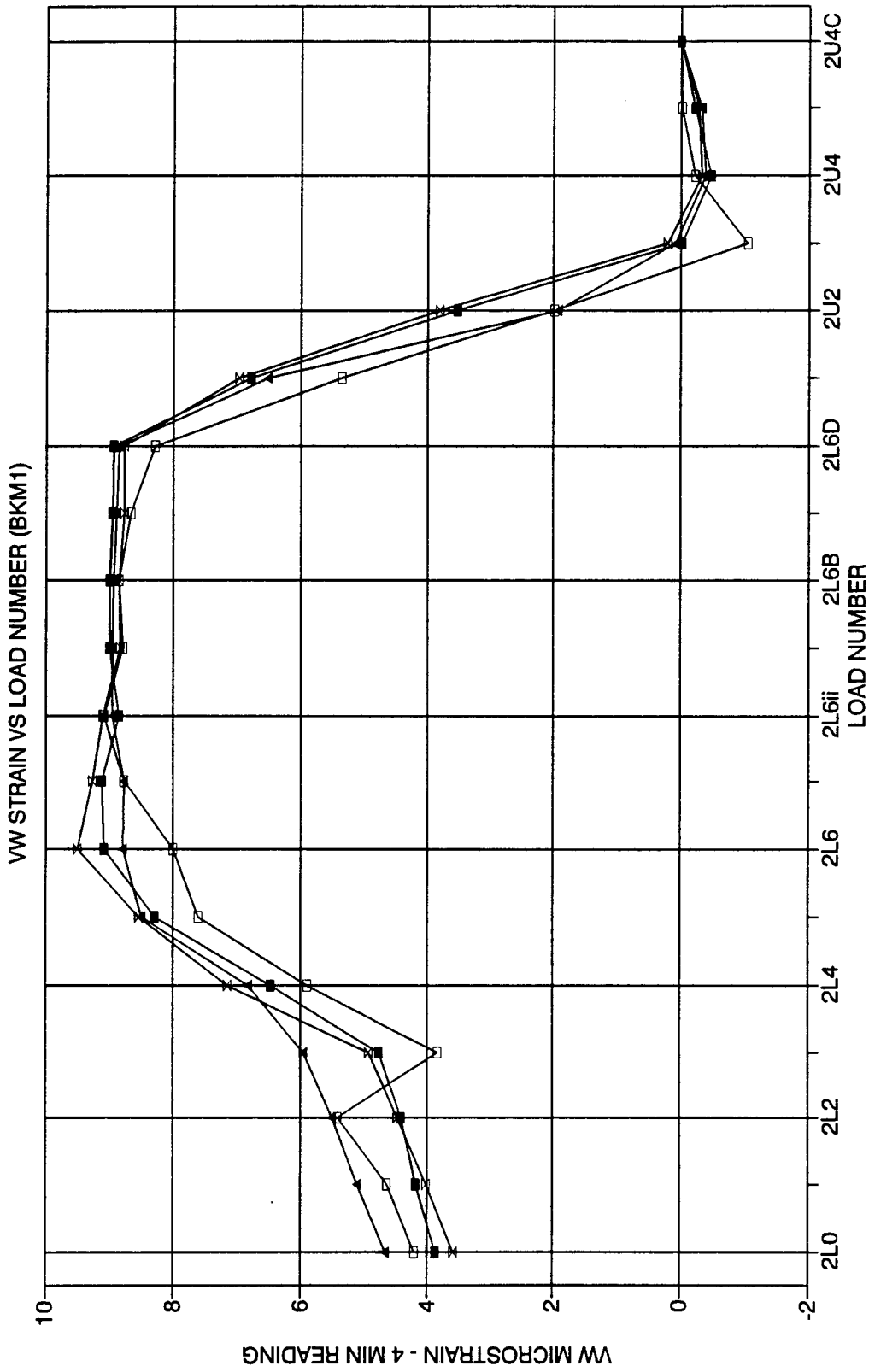

Figure F.36 Strain at Pile Middle: Buckman Load Test 1

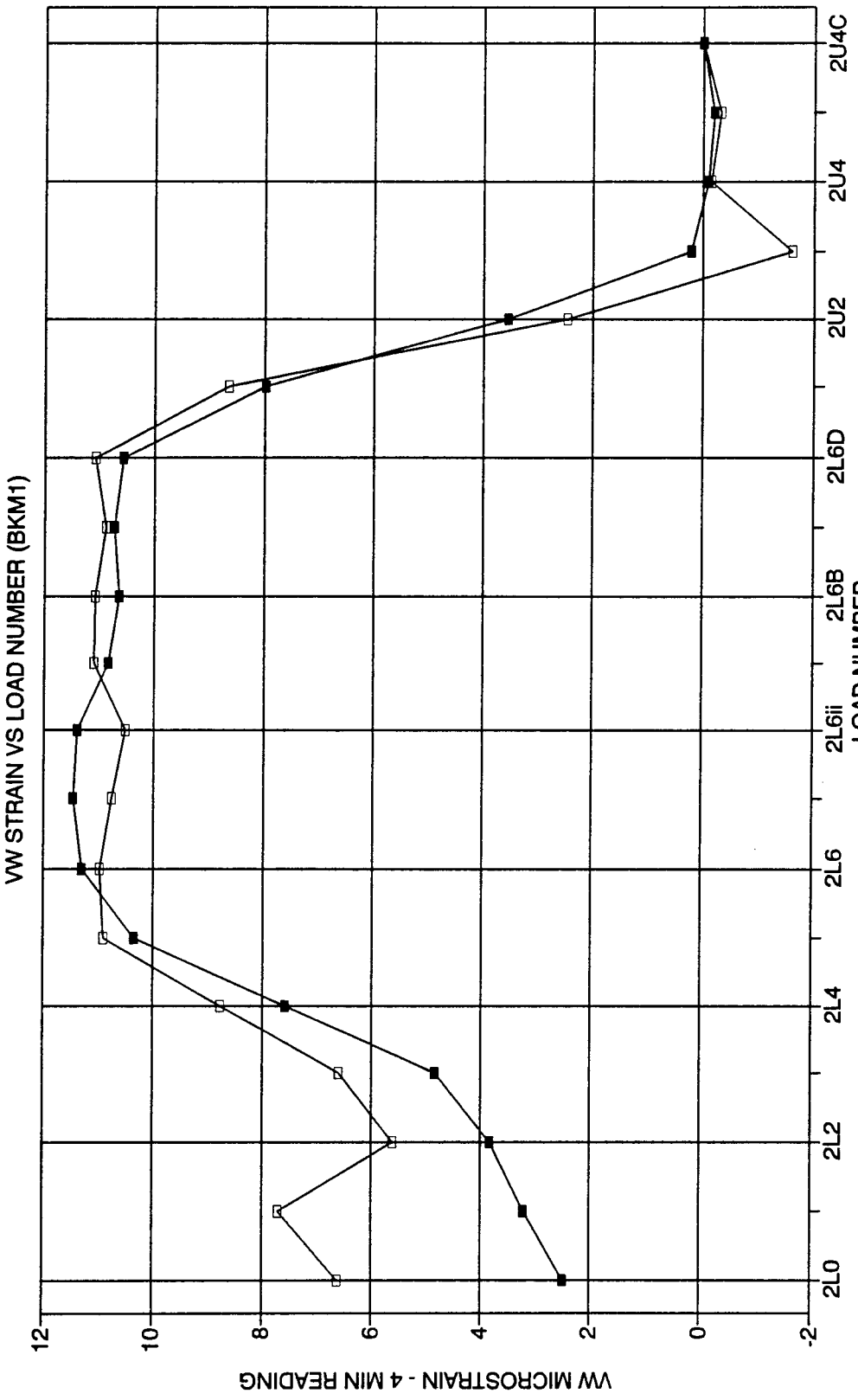

Figure F.37 Strain at Pile Bottom: Buckman Load Test 1

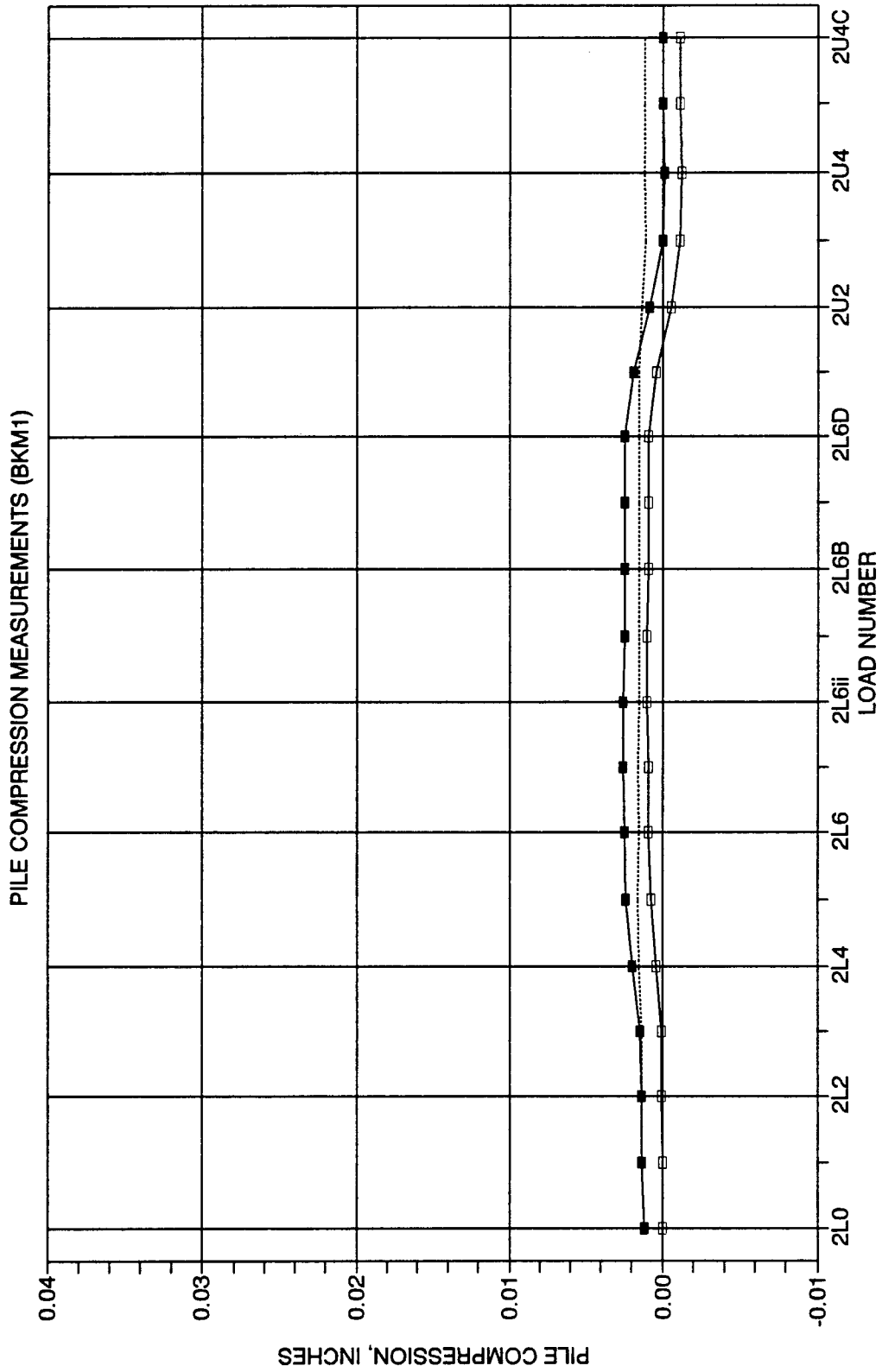

Figure F.38 Pile Compression Measurements: Buckman Load Test 1

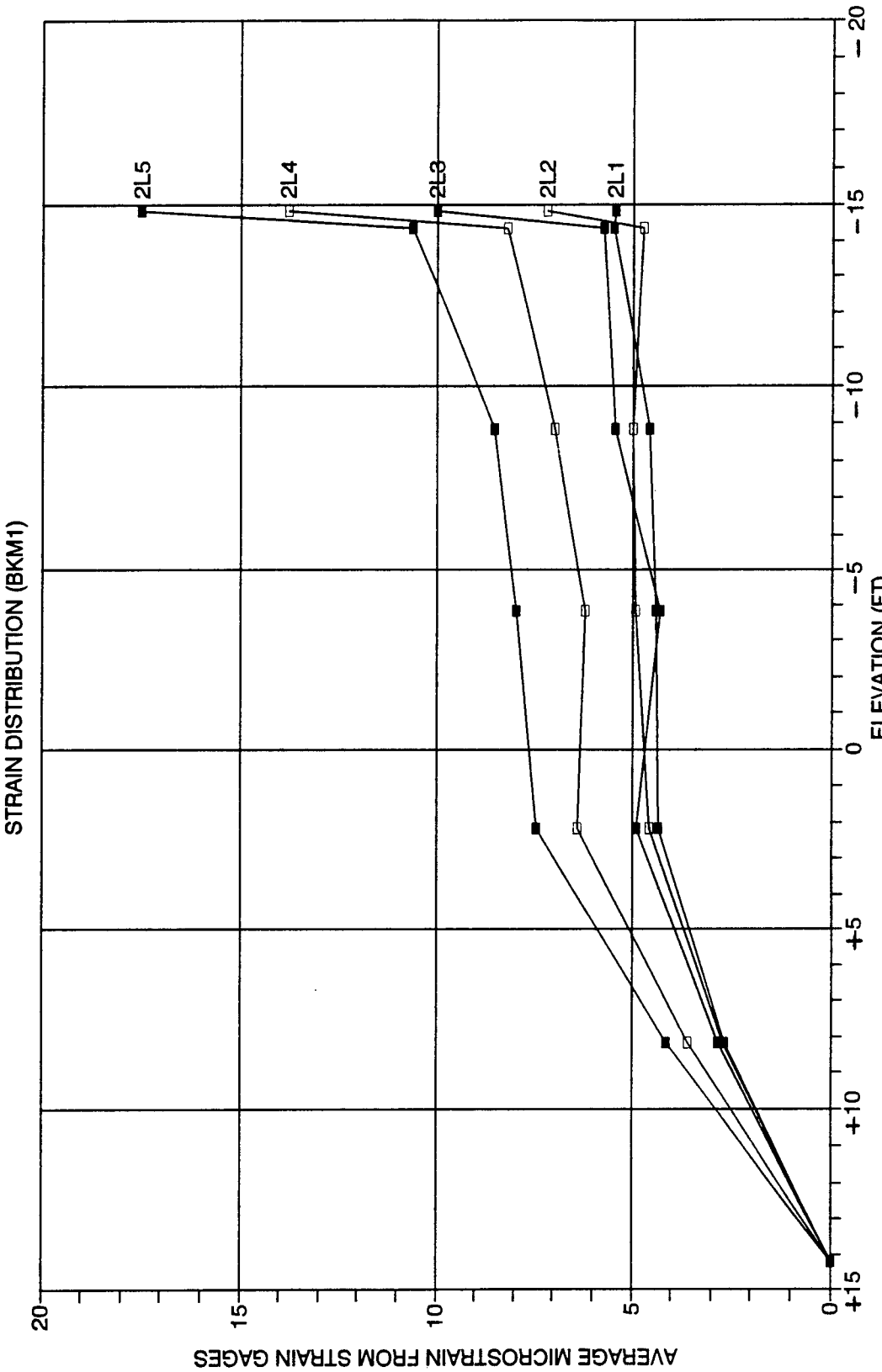

Figure F.39 Pile Strain Distribution: Buckman Load Test 1

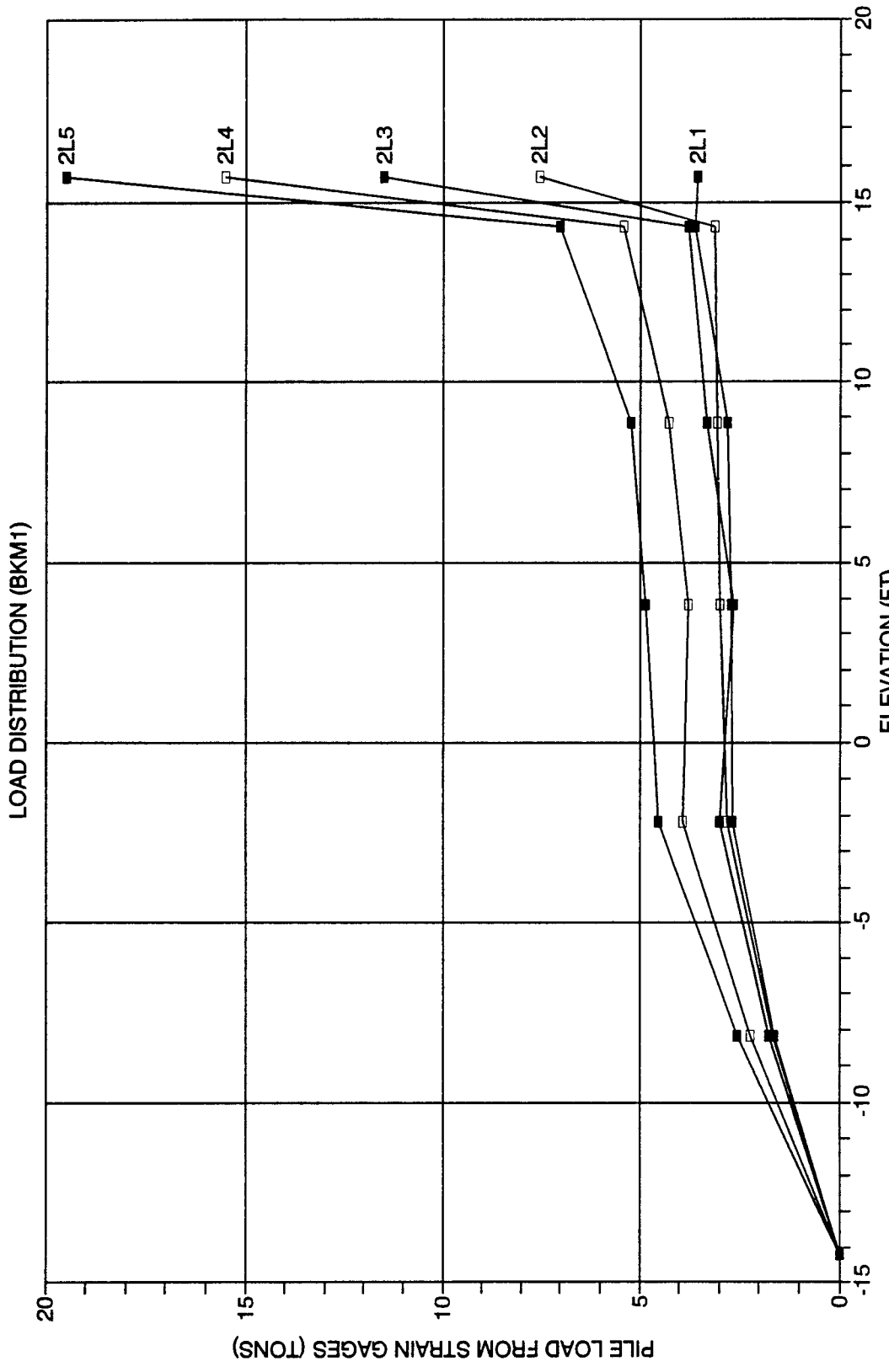

Figure F.40 Pile Load Distribution: Buckman Load Test 1

Table F.10 Strain Analyses: Buckman Load Test 2

VIBRATING WIRE INSTRUMENT READINGS - STRAIN

BKM 2 LOAD NUMBER	TIME	VW STRN FREQ^2 KHZ^2 43	VW STRN FREQ^2 KHZ^2 44	VW STRN FREQ^2 KHZ^2 55	VW STRN FREQ^2 KHZ^2 56	VW STRN FREQ^2 KHZ^2 57	VW STRN FREQ^2 KHZ^2 58	VW STRN FREQ^2 KHZ^2 59	VW STRN FREQ^2 KHZ^2 60	VW STRN FREQ^2 KHZ^2 61	VW STRN FREQ KHZ^2 62
L0	16:28:58	0.71894	0.74742	0.77120	0.78174	0.71835	0.69546	0.76388	0.74515	0.87144	0.88476
L0	16:30:48	0.71884	0.74738	0.77095	0.78165	0.71821	0.69533	0.76362	0.74498	0.87119	0.88462
L0	16:34:01	0.71894	0.74739	0.77103	0.78181	0.71832	0.69539	0.76371	0.74507	0.87121	0.88467
L0	16:47:08	0.71881	0.74738	0.77103	0.78171	0.71827	0.69527	0.76358	0.74509	0.87126	0.88471
L0	16:57:57	0.71884	0.74743	0.77106	0.78170	0.71834	0.69526	0.76366	0.74514	0.87135	0.88475
L1	17:01:30	0.71882	0.74742	0.77106	0.78180	0.71832	0.69525	0.76368	0.74516	0.87133	0.88474
L1	17:02:00	0.71882	0.74744	0.77104	0.78180	0.71834	0.69526	0.76368	0.74517	0.87134	0.88475
L1	17:03:00	0.71884	0.74746	0.77105	0.78188	0.71837	0.69526	0.76371	0.74519	0.87138	0.88475
L1A	17:09:23	0.71882	0.74747	0.77107	0.78184	0.71835	0.69526	0.76374	0.74519	0.87138	0.88472
L2	17:10:58	0.71882	0.74746	0.77104	0.78181	0.71829	0.69525	0.76370	0.74518	0.87131	0.88473
L2	17:11:29	0.71883	0.74745	0.77104	0.78182	0.71836	0.69524	0.76369	0.74516	0.87131	0.88471
L2	17:12:28	0.71882	0.74743	0.77106	0.78182	0.71836	0.69524	0.76371	0.74517	0.87125	0.88472
L2	17:14:27	0.71881	0.74747	0.77106	0.78184	0.71841	0.69524	0.76368	0.74519	0.87131	0.88472
L3	17:15:51	0.71881	0.74744	0.77102	0.78181	0.71835	0.69522	0.76363	0.74518	0.87114	0.88468
L3	17:16:19	0.71879	0.74744	0.77104	0.78181	0.71833	0.69522	0.76362	0.74517	0.87112	0.88468
L3	17:17:19	0.71880	0.74742	0.77101	0.78181	0.71840	0.69522	0.76367	0.74518	0.87116	0.88474
L3	17:19:18	0.71882	0.74747	0.77101	0.78183	0.71838	0.69522	0.76365	0.74517	0.87121	0.88468
L4	17:22:10	0.71879	0.74744	0.77102	0.78179	0.71835	0.69516	0.76353	0.74514	0.87098	0.88467
L4	17:24:10	0.71878	0.74745	0.77099	0.78177	0.71834	0.69517	0.76352	0.74514	0.87102	0.88467
L5	17:25:24	0.71877	0.74744	0.77095	0.78174	0.71829	0.69514	0.76345	0.74509	0.87098	0.88461
L5	17:27:01	0.71878	0.74741	0.77096	0.78176	0.71830	0.69513	0.76344	0.74509	0.87100	0.88461
L5	17:28:54	0.71877	0.74741	0.77096	0.78173	0.71830	0.69513	0.76345	0.74509	0.87097	0.88461
L5A	17:32:58	0.71878	0.74740	0.77095	0.78175	0.71827	0.69512	0.76345	0.74509	0.87100	0.88461
L6	17:34:25	0.71871	0.74739	0.77092	0.78169	0.71824	0.69507	0.76335	0.74503	0.87104	0.88444
L6	17:35:01	0.71876	0.74736	0.77091	0.78163	0.71825	0.69506	0.76334	0.74499	0.87102	0.88442
L6	17:35:55	0.71873	0.74739	0.77091	0.78164	0.71825	0.69507	0.76334	0.74501	0.87106	0.88442
L6	17:37:55	0.71875	0.74738	0.77092	0.78165	0.71822	0.69506	0.76335	0.74501	0.87109	0.88443
L7	17:39:13	0.71874	0.74737	0.77086	0.78162	0.71817	0.69498	0.76324	0.74488	0.87106	0.88420
L7	17:39:46	0.71872	0.74734	0.77085	0.78159	0.71815	0.69498	0.76325	0.74487	0.87111	0.88419
L7	17:40:45	0.71873	0.74736	0.77086	0.78158	0.71817	0.69499	0.76328	0.74490	0.87106	0.88420
L7	17:42:44	0.71874	0.74736	0.77086	0.78165	0.71815	0.69498	0.76328	0.74488	0.87110	0.88438
L8	17:44:10	0.71871	0.74729	0.77081	0.78164	0.71798	0.69481	0.76316	0.74462	0.87117	0.88439
L8	17:44:40	0.71872	0.74731	0.77081	0.78166	0.71801	0.69481	0.76316	0.74460	0.87116	0.88446
L8	17:47:40	0.71871	0.74737	0.77080	0.78164	0.71802	0.69481	0.76318	0.74460	0.87116	0.88442
L9	17:48:53	0.71867	0.74735	0.77071	0.78130	0.71767	0.69457	0.76303	0.74438	0.86979	0.88371
L9	17:49:24	0.71867	0.74725	0.77069	0.78126	0.71763	0.69456	0.76301	0.74439	0.86982	0.88367
L9	17:50:24	0.71866	0.74733	0.77070	0.78130	0.71766	0.69458	0.76305	0.74438	0.86991	0.88373
L9	17:52:23	0.71866	0.74738	0.77071	0.78130	0.71769	0.69457	0.76304	0.74439	0.86984	0.88372
L10	17:54:09	0.71848	0.74686	0.77025	0.78090	0.71747	0.69393	0.76262	0.74363	0.86898	0.88214
L10	17:54:39	0.71851	0.74690	0.77044	0.78093	0.71763	0.69395	0.76264	0.74364	0.86897	0.88240
L10	17:55:40	0.71851	0.74684	0.77045	0.78089	0.71762	0.69399	0.76240	0.74385	0.86897	0.88238
L10	17:57:43	0.71853	0.74682	0.77047	0.78087	0.71753	0.69409	0.76220	0.74417	0.86901	0.88269
L11	17:59:00	0.71846	0.74683	0.77051	0.78073	0.71758	0.69403	0.76222	0.74387	0.86887	0.88218

Table F.10 continued

VIBRATING WIRE INSTRUMENT READINGS - STRAIN

BKM 2 LOAD NUMBER	TIME	VW STRN FREQ^2 KHZ^2 43	VW STRN FREQ^2 KHZ^2 44	VW STRN FREQ^2 KHZ^2 55	VW STRN FREQ^2 KHZ^2 56	VW STRN FREQ^2 KHZ^2 57	VW STRN FREQ^2 KHZ^2 58	VW STRN FREQ^2 KHZ^2 59	VW STRN FREQ^2 KHZ^2 60	VW STRN FREQ^2 KHZ^2 61	VW STRN FREQ KHZ^2 62
L11	17:59:30	0.71846	0.74680	0.77037	0.78076	0.71738	0.69405	0.76245	0.74376	0.86893	0.88242
L11	18:00:14	0.71850	0.74677	0.77036	0.78079	0.71753	0.69412	0.76255	0.74398	0.86898	0.88301
L11A	18:01:33	0.71855	0.74682	0.77052	0.78080	0.71739	0.69415	0.76260	0.74409	0.86912	0.88296
L11B	18:02:32	0.71855	0.74684	0.77054	0.78082	0.71740	0.69415	0.76262	0.74412	0.86917	0.88293
L11C	18:04:30	0.71856	0.74686	0.77057	0.78083	0.71738	0.69415	0.76268	0.74414	0.86921	0.88293
U1	18:08:28	0.71872	0.74733	0.77098	0.78119	0.71816	0.69485	0.76323	0.74469	0.86974	0.88409
U2	18:12:14	0.71888	0.74755	0.77196	0.78195	0.71867	0.69555	0.76410	0.74537	0.87102	0.88447
U3	18:16:16	0.71921	0.74850	0.77287	0.78280	0.72005	0.69656	0.76541	0.74624	0.87274	0.88570
U4	18:21:26	0.71934	0.74903	0.77396	0.78368	0.72095	0.69731	0.76676	0.74692	0.87421	0.88675
U5	18:25:45	0.71953	0.74938	0.77476	0.78408	0.72161	0.69808	0.76708	0.74770	0.87465	0.88759
U5A	18:29:09	0.71951	0.74933	0.77471	0.78406	0.72156	0.69800	0.76698	0.74767	0.87475	0.88759

Table F.10 continued

VIBRATING WIRE INSTRUMENT READINGS - TEMPERATURE

BKM 2 LOAD NUMBER	TIME	VW STRN TEMP DEG C 43	VW STRN TEMP DEG C 44	VW STRN TEMP DEG C 55	VW STRN TEMP DEG C 56	VW STRN TEMP DEG C 57	VW STRN TEMP DEG C 58	VW STRN TEMP DEG C 59	VW STRN TEMP DEG C 60	VW STRN TEMP DEG C 61	VW STRN TEMP DEG C 62
L0	16:28:58	21.050	20.836	20.410	20.441	21.356	21.295	22.036	22.005	22.754	22.503
L0	16:30:48	21.050	20.806	20.410	20.471	21.356	21.295	22.036	22.005	22.754	22.503
L0	16:34:01	21.050	20.806	20.410	20.441	21.356	21.295	22.036	22.005	22.723	22.503
L0	16:47:08	21.050	20.836	20.410	20.441	21.356	21.295	22.036	22.005	22.754	22.503
L0	16:57:57	21.050	20.806	20.410	20.441	21.356	21.264	22.036	22.005	22.754	22.503
L1	17:01:30	21.050	20.806	20.410	20.441	21.356	21.295	22.036	22.005	22.754	22.503
L1	17:02:00	21.050	20.806	20.410	20.471	21.356	21.295	22.036	22.005	22.723	22.503
L1	17:03:00	21.050	20.806	20.410	20.441	21.356	21.295	22.036	22.005	22.754	22.503
L1A	17:09:23	21.050	20.806	20.410	20.441	21.356	21.295	22.036	22.005	22.723	22.503
L2	17:10:58	21.050	20.806	20.410	20.441	21.356	21.295	22.036	22.005	22.754	22.503
L2	17:11:29	21.050	20.836	20.410	20.441	21.356	21.295	22.036	22.005	22.723	22.503
L2	17:12:28	21.050	20.836	20.410	20.441	21.356	21.295	22.036	22.005	22.754	22.503
L2	17:14:27	21.050	20.806	20.410	20.441	21.356	21.264	22.036	22.005	22.754	22.503
L3	17:15:51	21.050	20.806	20.410	20.441	21.356	21.295	22.036	22.005	22.754	22.503
L3	17:16:19	21.050	20.806	20.410	20.441	21.356	21.295	22.036	22.005	22.723	22.503
L3	17:17:19	21.050	20.806	20.410	20.441	21.356	21.295	22.036	22.005	22.754	22.472
L3	17:19:18	21.050	20.806	20.410	20.441	21.356	21.295	22.036	22.005	22.723	22.503
L4	17:22:10	21.050	20.806	20.410	20.441	21.356	21.295	22.036	22.005	22.754	22.503
L4	17:24:10	21.050	20.836	20.410	20.441	21.356	21.295	22.036	22.005	22.723	22.503
L5	17:25:24	21.050	20.806	20.410	20.441	21.356	21.295	22.036	22.005	22.754	22.503
L5	17:27:01	21.050	20.806	20.410	20.441	21.356	21.295	22.036	22.005	22.723	22.503
L5	17:28:54	21.050	20.836	20.410	20.441	21.356	21.295	22.036	22.005	22.723	22.503
L5A	17:32:58	21.050	20.836	20.410	20.441	21.356	21.295	22.036	22.005	22.754	22.503
L6	17:34:25	21.050	20.806	20.410	20.441	21.356	21.295	22.036	22.005	22.754	22.503
L6	17:35:01	21.050	20.806	20.410	20.471	21.356	21.295	22.036	22.005	22.754	22.503
L6	17:35:55	21.050	20.836	20.410	20.441	21.356	21.295	22.036	22.005	22.723	22.503
L6	17:37:55	21.050	20.836	20.410	20.441	21.356	21.295	22.036	22.005	22.754	22.503
L7	17:39:13	21.050	20.806	20.410	20.441	21.356	21.295	22.036	22.005	22.723	22.503
L7	17:39:46	21.050	20.806	20.410	20.441	21.356	21.295	22.036	22.005	22.723	22.503
L7	17:40:45	21.050	20.836	20.410	20.441	21.356	21.295	22.036	22.005	22.723	22.503
L7	17:42:44	21.050	20.836	20.410	20.441	21.356	21.295	22.036	22.005	22.723	22.503
L8	17:44:10	21.050	20.806	20.410	20.441	21.356	21.295	22.036	22.005	22.723	22.503
L8	17:44:40	21.050	20.836	20.410	20.441	21.356	21.295	22.036	22.005	22.723	22.503
L8	17:47:40	21.050	20.836	20.410	20.441	21.356	21.295	22.036	22.036	22.723	22.503
L9	17:48:53	21.050	20.806	20.410	20.441	21.356	21.295	22.036	22.005	22.723	22.503
L9	17:49:24	21.050	20.806	20.410	20.441	21.356	21.295	22.036	22.005	22.754	22.503
L9	17:50:24	21.050	20.836	20.410	20.441	21.356	21.295	22.036	22.005	22.754	22.503
L9	17:52:23	21.050	20.806	20.410	20.441	21.356	21.295	22.036	22.005	22.723	22.503
L10	17:54:09	21.050	20.836	20.410	20.441	21.356	21.295	22.036	22.005	22.723	22.503
L10	17:54:39	21.050	20.836	20.410	20.441	21.356	21.295	22.036	22.005	22.723	22.503
L10	17:55:40	21.050	20.806	20.410	20.441	21.356	21.295	22.036	22.005	22.723	22.503
L10	17:57:43	21.050	20.806	20.410	20.441	21.356	21.295	22.036	22.005	22.723	22.503
L11	17:59:00	21.050	20.836	20.410	20.441	21.356	21.295	22.036	22.005	22.723	22.503

Table F.10 continued

VIBRATING WIRE INSTRUMENT READINGS - TEMPERATURE

BKM 2 LOAD NUMBER	TIME	VW STRN TEMP DEG C 43	VW STRN TEMP DEG C 44	VW STRN TEMP DEG C 55	VW STRN TEMP DEG C 56	VW STRN TEMP DEG C 57	VW STRN TEMP DEG C 58	VW STRN TEMP DEG C 59	VW STRN TEMP DEG C 60	VW STRN TEMP DEG C 61	VW STRN TEMP DEG C 62
L11	17:59:30	21.050	20.806	20.410	20.441	21.356	21.295	22.036	22.005	22.723	22.503
L11	18:00:14	21.050	20.836	20.410	20.441	21.356	21.295	22.036	22.005	22.723	22.503
L11A	18:01:33	21.050	20.806	20.410	20.441	21.356	21.295	22.036	22.005	22.723	22.503
L11B	18:02:32	21.050	20.806	20.410	20.441	21.356	21.295	22.036	22.005	22.723	22.503
L11C	18:04:30	21.050	20.806	20.410	20.441	21.356	21.295	22.036	22.005	22.723	22.503
U1	18:08:28	21.050	20.836	20.410	20.441	21.356	21.295	22.036	22.036	22.723	22.503
U2	18:12:14	21.050	20.806	20.410	20.441	21.356	21.264	22.036	22.005	22.723	22.503
U3	18:16:16	21.050	20.806	20.410	20.441	21.356	21.295	22.036	22.005	22.723	22.503
U4	18:21:26	21.050	20.836	20.410	20.441	21.356	21.295	22.036	22.005	22.723	22.503
U5	18:25:45	21.050	20.836	20.410	20.441	21.356	21.295	22.036	22.005	22.723	22.503
U5A	18:29:09	21.05	20.806	20.41	20.441	21.356	21.295	22.036	22.005	22.723	22.503

Table F.10 continued

VIBRATING WIRE CALCULATED STRAIN INCREMENTS

BKM 2 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 43	VW STRN MICRO STRAIN 44	VW STRN MICRO STRAIN 55	VW STRN MICRO STRAIN 56	VW STRN MICRO STRAIN 57	VW STRN MICRO STRAIN 58	VW STRN MICRO STRAIN 59	VW STRN MICRO STRAIN 60	VW STRN MICRO STRAIN 61	VW STRN MICRO STRAIN 62
L0	16:28:58	-0.3	-0.0	-0.5	-0.1	-0.0	-0.7	-0.7	-0.0	-0.3	-0.0
L0	16:30:48	0.0	0.2	0.4	0.1	0.4	-0.3	0.1	0.5	0.5	0.4
L0	16:34:01	-0.3	0.1	0.1	-0.4	0.1	-0.5	-0.2	0.2	0.5	0.3
L0	16:47:08	0.1	0.1	0.1	-0.0	0.2	-0.1	0.3	0.2	0.3	0.1
L0	16:57:57	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
L1	17:01:30	0.1	0.0	0.0	-0.3	0.1	-0.0	-0.1	-0.1	0.1	0.0
L1	17:02:00	0.1	-0.0	0.1	-0.4	0.0	-0.0	-0.1	-0.1	0.1	0.0
L1	17:03:00	0.0	-0.1	0.0	-0.6	-0.1	-0.0	-0.2	-0.2	-0.1	0.0
L1A	17:09:23	0.1	-0.1	-0.0	-0.5	-0.0	-0.0	-0.3	-0.2	-0.1	0.1
L2	17:10:58	0.1	-0.1	0.1	-0.4	0.2	-0.0	-0.1	-0.1	0.1	0.1
L2	17:11:29	0.0	-0.1	0.1	-0.4	-0.1	0.0	-0.1	-0.1	0.2	0.1
L2	17:12:28	0.1	-0.0	0.0	-0.4	-0.1	0.0	-0.2	-0.1	0.3	0.1
L2	17:14:27	0.1	-0.1	0.0	-0.5	-0.2	0.1	-0.1	-0.2	0.1	0.1
L3	17:15:51	0.1	-0.0	0.1	-0.4	-0.0	0.1	0.1	-0.1	0.7	0.2
L3	17:16:19	0.2	-0.0	0.1	-0.4	0.0	0.1	0.1	-0.1	0.8	0.2
L3	17:17:19	0.1	0.0	0.2	-0.4	-0.2	0.1	-0.0	-0.1	0.6	0.1
L3	17:19:18	0.1	-0.1	0.2	-0.4	-0.1	0.1	0.0	-0.1	0.5	0.2
L4	17:22:10	0.2	-0.0	0.1	-0.3	-0.0	0.3	0.4	0.0	1.2	0.3
L4	17:24:10	0.2	-0.1	0.2	-0.2	0.0	0.3	0.5	0.0	1.1	0.3
L5	17:25:24	0.2	-0.0	0.4	-0.1	0.2	0.4	0.7	0.2	1.2	0.5
L5	17:27:01	0.2	0.1	0.3	-0.2	0.1	0.4	0.7	0.2	1.2	0.5
L5	17:28:54	0.2	0.0	0.3	-0.1	0.1	0.4	0.7	0.2	1.3	0.5
L5A	17:32:58	0.2	0.1	0.4	-0.2	0.2	0.4	0.7	0.2	1.2	0.5
L6	17:34:25	0.4	0.1	0.5	0.0	0.3	0.6	1.0	0.4	1.0	1.0
L6	17:35:01	0.3	0.2	0.5	0.2	0.3	0.6	1.1	0.5	1.1	1.1
L6	17:35:55	0.4	0.1	0.5	0.2	0.3	0.6	1.1	0.4	1.0	1.1
L6	17:37:55	0.3	0.1	0.5	0.2	0.4	0.6	1.0	0.4	0.9	1.1
L7	17:39:13	0.3	0.2	0.7	0.3	0.6	0.9	1.4	0.9	1.0	1.8
L7	17:39:46	0.4	0.3	0.7	0.4	0.6	0.9	1.4	0.9	0.8	1.9
L7	17:40:45	0.4	0.2	0.7	0.4	0.6	0.9	1.3	0.8	1.0	1.8
L7	17:42:44	0.3	0.2	0.7	0.2	0.6	0.9	1.3	0.9	0.9	1.2
L8	17:44:10	0.4	0.5	0.8	0.2	1.2	1.4	1.7	1.7	0.6	1.2
L8	17:44:40	0.4	0.4	0.8	0.1	1.1	1.4	1.7	1.8	0.7	1.0
L8	17:47:40	0.4	0.2	0.9	0.2	1.1	1.4	1.6	1.7	0.7	1.1
L9	17:48:53	0.6	0.3	1.2	1.3	2.2	2.2	2.1	2.5	5.2	3.4
L9	17:49:24	0.6	0.6	1.2	1.5	2.3	2.3	2.1	2.5	5.1	3.6
L9	17:50:24	0.6	0.3	1.2	1.3	2.2	2.2	2.0	2.5	4.8	3.4
L9	17:52:23	0.6	0.2	1.2	1.3	2.1	2.2	2.0	2.5	5.0	3.4
L10	17:54:09	1.2	1.8	2.7	2.6	2.9	4.4	3.4	5.0	7.9	8.6
L10	17:54:39	1.1	1.7	2.0	2.5	2.3	4.3	3.4	5.0	7.9	7.8
L10	17:55:40	1.1	1.9	2.0	2.7	2.4	4.2	4.2	4.3	7.9	7.8
L10	17:57:43	1.0	2.0	1.9	2.7	2.7	3.8	4.8	3.2	7.8	6.8
L11	17:59:00	1.3	1.9	1.8	3.2	2.5	4.0	4.8	4.2	8.2	8.5

Table F.10 continued

VIBRATING WIRE CALCULATED STRAIN INCREMENTS

BKM 2 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 43	VW STRN MICRO STRAIN 44	VW STRN MICRO STRAIN 55	VW STRN MICRO STRAIN 56	VW STRN MICRO STRAIN 57	VW STRN MICRO STRAIN 58	VW STRN MICRO STRAIN 59	VW STRN MICRO STRAIN 60	VW STRN MICRO STRAIN 61	VW STRN MICRO STRAIN 62
L11	17:59:30	1.3	2.1	2.3	3.1	3.2	4.0	4.0	4.6	8.0	7.7
L11	18:00:14	1.1	2.1	2.3	3.0	2.7	3.7	3.7	3.8	7.9	5.7
L11A	18:01:33	1.0	2.0	1.8	3.0	3.1	3.6	3.5	3.5	7.4	5.9
L11B	18:02:32	1.0	1.9	1.7	2.9	3.1	3.6	3.4	3.4	7.2	6.0
L11C	18:04:30	0.9	1.9	1.6	2.9	3.2	3.6	3.2	3.3	7.1	6.0
U1	18:08:28	0.4	0.3	0.3	1.7	0.6	1.3	1.4	1.4	5.4	2.2
U2	18:12:14	-0.1	-0.4	-3.0	-0.8	-1.1	-1.0	-1.5	-0.8	1.1	0.9
U3	18:16:16	-1.2	-3.5	-6.0	-3.6	-5.6	-4.3	-5.8	-3.6	-4.6	-3.1
U4	18:21:26	-1.7	-5.3	-9.6	-6.5	-8.6	-6.8	-10.2	-5.9	-9.4	-6.6
U5	18:25:45	-2.3	-6.5	-12.2	-7.9	-10.8	-9.4	-11.3	-8.5	-10.9	-9.4
U5A	18:29:09	-2.2	-6.3	-12.1	-7.8	-10.6	-9.1	-11.0	-8.4	-11.2	-9.4

Table F.10 continued

VIBRATING WIRE CALCULATED STRAIN (4 MINUTE READINGS)

BKM 2 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 43	VW STRN MICRO STRAIN 44	VW STRN MICRO STRAIN 55	VW STRN MICRO STRAIN 56	VW STRN MICRO STRAIN 57	VW STRN MICRO STRAIN 58	VW STRN MICRO STRAIN 59	VW STRN MICRO STRAIN 60	VW STRN MICRO STRAIN 61	VW STRN MICRO STRAIN 62
L0	16:57:57	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
L1	17:03:00	0.0	-0.1	0.0	-0.6	-0.1	-0.0	-0.2	-0.2	-0.1	0.0
L1A	17:09:23	0.1	-0.1	-0.0	-0.5	-0.0	-0.0	-0.3	-0.2	-0.1	0.1
L2	17:14:27	0.1	-0.1	0.0	-0.5	-0.2	0.1	-0.1	-0.2	0.1	0.1
L3	17:19:18	0.1	-0.1	0.2	-0.4	-0.1	0.1	0.0	-0.1	0.5	0.2
L4	17:24:10	0.2	-0.1	0.2	-0.2	0.0	0.3	0.5	0.0	1.1	0.3
L5	17:28:54	0.2	0.0	0.3	-0.1	0.1	0.4	0.7	0.2	1.3	0.5
L5A	17:32:58	0.2	0.1	0.4	-0.2	0.2	0.4	0.7	0.2	1.2	0.5
L6	17:37:55	0.3	0.1	0.5	0.2	0.4	0.6	1.0	0.4	0.9	1.1
L7	17:42:44	0.3	0.2	0.7	0.2	0.6	0.9	1.3	0.9	0.9	1.2
L8	17:47:40	0.4	0.2	0.9	0.2	1.1	1.4	1.6	1.7	0.7	1.1
L9	17:52:23	0.6	0.2	1.2	1.3	2.1	2.2	2.0	2.5	5.0	3.4
L10	17:57:43	1.0	2.0	1.9	2.7	2.7	3.8	4.8	3.2	7.8	6.8
L11	18:00:14	1.1	2.1	2.3	3.0	2.7	3.7	3.7	3.8	7.9	5.7
L11A	18:01:33	1.0	2.0	1.8	3.0	3.1	3.6	3.5	3.5	7.4	5.9
L11B	18:02:32	1.0	1.9	1.7	2.9	3.1	3.6	3.4	3.4	7.2	6.0
L11C	18:04:30	0.9	1.9	1.6	2.9	3.2	3.6	3.2	3.3	7.1	6.0
U1	18:08:28	0.4	0.3	0.3	1.7	0.6	1.3	1.4	1.4	5.4	2.2
U2	18:12:14	-0.1	-0.4	-3.0	-0.8	-1.1	-1.0	-1.5	-0.8	1.1	0.9
U3	18:16:16	-1.2	-3.5	-6.0	-3.6	-5.6	-4.3	-5.8	-3.6	-4.6	-3.1
U4	18:21:26	-1.7	-5.3	-9.6	-6.5	-8.6	-6.8	-10.2	-5.9	-9.4	-6.6
U5	18:25:45	-2.3	-6.5	-12.2	-7.9	-10.8	-9.4	-11.3	-8.5	-10.9	-9.4
U5A	18:29:09	-2.2	-6.3	-12.1	-7.8	-10.6	-9.1	-11.0	-8.4	-11.2	-9.4

Table F.10 continued

AVERAGE STRAIN AT EACH GAGE LEVEL, INTEGRATED PILE COMPRESSION & COMPARISON WITH TELLTALE MEASUREMENT (4 MINUTE READINGS)

BKM 2 LOAD NUMBER	AVG VW MICRO STRAIN SURFACE	AVG VW MICRO STRAIN 43+44	AVG VW MICRO STRAIN 55+56	AVG VW MICRO STRAIN 57+58	AVG VW MICRO STRAIN 59+60	AVG VW MICRO STRAIN 61+62	EST'D. MICRO STRAIN CELL TOP	PILE COMPRESSION SG MSMT. INCHES	TT MSMT. INCHES	ABS.DIFF. SG-TT INCHES
L0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0000	0.0000	0.0000
L1	0.0	-0.0	-0.3	-0.1	-0.2	-0.0	0.7	-0.0000	-0.0000	-0.0000
L1A	0.0	-0.0	-0.2	-0.0	-0.2	0.0	0.6	-0.0000	0.0000	-0.0001
L2	0.0	-0.0	-0.2	-0.1	-0.1	0.1	1.4	-0.0000	0.0000	-0.0000
L3	0.0	-0.0	-0.1	-0.0	-0.0	0.4	2.5	0.0000	0.0001	-0.0001
L4	0.0	0.0	0.0	0.1	0.2	0.7	3.7	0.0001	0.0001	-0.0000
L5	0.0	0.1	0.1	0.3	0.4	0.9	4.6	0.0001	0.0001	0.0000
L5A	0.0	0.1	0.1	0.3	0.4	0.8	4.4	0.0001	0.0001	0.0001
L6	0.0	0.2	0.3	0.5	0.7	1.0	5.6	0.0002	0.0001	0.0001
L7	0.0	0.3	0.4	0.8	1.1	1.0	6.4	0.0002	0.0001	0.0001
L8	0.0	0.3	0.5	1.3	1.7	0.9	7.1	0.0003	0.0002	0.0001
L9	0.0	0.4	1.2	2.2	2.3	4.2	10.1	0.0006	0.0004	0.0002
L10	0.0	1.5	2.3	3.3	4.0	7.3	15.1	0.0011	0.0007	0.0003
L11	0.0	1.6	2.7	3.2	3.8	6.8	14.6	0.0010	0.0008	0.0003
L11A	0.0	1.5	2.4	3.4	3.5	6.7	13.7	0.0010	0.0006	0.0004
L11B	0.0	1.5	2.3	3.4	3.4	6.6	13.5	0.0010	0.0006	0.0003
L11C	0.0	1.4	2.2	3.4	3.3	6.6	13.5	0.0010	0.0006	0.0004
U1	0.0	0.3	1.0	1.0	1.4	3.8	9.8	0.0004	0.0001	0.0003
U2	0.0	-0.3	-1.9	-1.0	-1.1	1.0	6.7	-0.0002	-0.0005	0.0003
U3	0.0	-2.4	-4.8	-5.0	-4.7	-3.8	1.6	-0.0013	-0.0014	0.0001
U4	0.0	-3.5	-8.1	-7.7	-8.1	-8.0	-2.7	-0.0021	-0.0022	0.0001
U5	0.0	-4.4	-10.0	-10.1	-9.9	-10.1	-6.4	-0.0027	-0.0027	0.0000
U5A	0.0	-4.2	-9.9	-9.9	-9.7	-10.3	-6.5	-0.0027	-0.0027	0.0001
ELEV. FT	14.22	8.17	2.17	-3.83	-8.83	-14.33	-14.83			

Table F.10 continued

VIBRATING WIRE CALCULATED AVERAGE LOADS (4 MINUTE READINGS)

LA = 5.50 ft
LB = 1.38 ft
B = 18.00 in
ES = 27500.0 ksi

ACA = 317.115 si
ACB = 313.155 si
ASA = 3.538 si
ASB = 7.498 si

BKM 2 LOAD NUMBER	AVG VW LOAD TONS SURFACE	AVG VW LOAD TONS 43+44	AVG VW LOAD TONS 55+56	AVG VW LOAD TONS 57+58	AVG VW LOAD TONS 59+60	AVG VW LOAD TONS 61+62	OSTERBERG LOAD TONS BOTTOM	INCR. PILE MODULUS KSI	CALC. PILE A MODULUS KSI	CALC. PILE B MODULUS KSI
L0	0.0	0.00	0.00	0.00	0.00	0.00	0.0		3893.3	4184.5
L1	0.0	-0.03	-0.18	-0.04	-0.10	-0.03	1.3	-160316.9	3893.3	4184.5
L1A	0.0	-0.02	-0.16	-0.02	-0.14	0.01	1.2		3893.3	4184.5
L2	0.0	-0.01	-0.15	-0.05	-0.07	0.08	2.5	84268.7	3893.3	4184.5
L3	0.0	-0.02	-0.08	-0.01	-0.02	0.25	4.2	41248.8	3893.3	4184.5
L4	0.0	0.03	0.00	0.08	0.15	0.47	6.1	36537.4	3893.3	4184.5
L5	0.0	0.08	0.07	0.16	0.27	0.60	7.5	46182.7	3893.3	4184.5
L5A	0.0	0.08	0.06	0.21	0.27	0.55	7.3		3893.3	4184.5
L6	0.0	0.13	0.20	0.32	0.46	0.65	9.2	80257.3	3893.3	4184.5
L7	0.0	0.16	0.26	0.48	0.67	0.71	10.7	103312.2	3893.3	4184.5
L8	0.0	0.19	0.33	0.79	1.05	0.60	12.1	-53747.5	3893.3	4184.5
L9	0.0	0.24	0.78	1.38	1.43	2.86	13.8	3182.8	3893.3	4184.5
L10	0.0	0.96	1.48	2.05	2.53	4.94	19.4	11234.9	3893.3	4184.5
L11	0.0	1.03	1.68	2.02	2.37	4.62	19.2		3893.3	4184.5
L11A	0.0	0.94	1.50	2.13	2.20	4.52	17.7		3893.3	4184.5
L11B	0.0	0.92	1.46	2.12	2.15	4.49	17.4		3893.3	4184.5
L11C	0.0	0.89	1.42	2.14	2.06	4.45	17.3		3893.3	4184.5
U1	0.0	0.22	0.61	0.60	0.90	2.56	13.9		3893.3	4184.5
U2	0.0	-0.17	-1.20	-0.65	-0.70	0.70	11.2		3893.3	4184.5
U3	0.0	-1.50	-3.03	-3.15	-2.97	-2.61	7.5		3893.3	4184.5
U4	0.0	-2.20	-5.08	-4.87	-5.08	-5.43	4.5		3893.3	4184.5
U5	0.0	-2.76	-6.33	-6.36	-6.23	-6.86	0.0		3893.3	4184.5
U5A	0.0	-2.68	-6.26	-6.22	-6.10	-6.97	0.0		3893.3	4184.5

ELEV. FT	14.22	8.17	2.17	-3.83	-8.83	-14.33	-15.71

3671.0 KSI = CONCRETE MODULUS

Table F.10 continued

INTEGRATED MOVEMENT AT VW STRAIN GAGE (4 MINUTE READINGS)

BKM 2 LOAD NUMBER	VW MOVEMENT INCHES SURFACE	VW MOVEMENT INCHES 43+44	VW MOVEMENT INCHES 55+56	VW MOVEMENT INCHES 57+58	VW MOVEMENT INCHES 59+60	VW MOVEMENT INCHES 61+62	VW MOVEMENT INCHES CELL TOP
L0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L1	0.0000	0.0000	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000
L1A	0.0001	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000
L2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L3	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
L4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001	0.0001
L5	-0.0000	-0.0000	-0.0000	-0.0000	0.0000	0.0000	0.0001
L5A	-0.0001	-0.0000	-0.0000	-0.0000	-0.0000	0.0000	0.0001
L6	-0.0001	-0.0001	-0.0001	-0.0000	-0.0000	0.0001	0.0001
L7	-0.0001	-0.0001	-0.0001	-0.0001	0.0000	0.0001	0.0001
L8	-0.0001	-0.0001	-0.0000	0.0000	0.0001	0.0002	0.0002
L9	-0.0002	-0.0002	-0.0001	-0.0000	0.0001	0.0003	0.0004
L10	0.1697	0.1697	0.1699	0.1701	0.1703	0.1707	0.1707
L11	0.6897	0.6898	0.6899	0.6901	0.6903	0.6907	0.6908
L11A	0.7296	0.7297	0.7298	0.7300	0.7303	0.7306	0.7307
L11B	0.7297	0.7297	0.7299	0.7301	0.7303	0.7306	0.7307
L11C	0.7296	0.7297	0.7298	0.7300	0.7302	0.7306	0.7306
U1	0.7297	0.7297	0.7297	0.7298	0.7299	0.7301	0.7301
U2	0.7297	0.7297	0.7296	0.7295	0.7295	0.7295	0.7295
U3	0.7099	0.7098	0.7095	0.7092	0.7089	0.7086	0.7086
U4	0.6999	0.6998	0.6994	0.6988	0.6983	0.6978	0.6978
U5	0.6800	0.6798	0.6793	0.6786	0.6780	0.6773	0.6773
U5A	0.6799	0.6798	0.6793	0.6786	0.6780	0.6773	0.6773

Table F.10 continued

INTEGRATED MOVEMENT AT SEGMENT CL (4 MINUTE READINGS)

BKM 2 LOAD NUMBER	AVG VW MOVEMENT INCHES	AVG VW MOVEMENT INCHES	AVG VW MOVEMENT INCHES	AVG VW MOVEMENT INCHES	AVG VW MOVEMENT INCHES
CL.ELEV.	11.20	5.17	-0.83	-6.33	-11.58
L0	0.0000	0.0000	0.0000	0.0000	0.0000
L1	0.0000	0.0000	0.0000	0.0000	0.0000
L1A	0.0001	0.0001	0.0000	0.0000	0.0000
L2	0.0000	0.0000	0.0000	0.0000	0.0000
L3	0.0001	0.0001	0.0001	0.0001	0.0001
L4	0.0000	0.0000	0.0000	0.0000	0.0000
L5	0.0000	0.0000	0.0000	0.0000	0.0000
L5A	0.0000	0.0000	0.0000	0.0000	0.0000
L6	0.0000	0.0000	0.0000	0.0000	0.0000
L7	0.0000	0.0000	0.0000	0.0000	0.0000
L8	0.0000	0.0000	0.0000	0.0001	0.0002
L9	0.0000	0.0000	0.0000	0.0000	0.0002
L10	0.1697	0.1698	0.1700	0.1702	0.1705
L11	0.6897	0.6899	0.6900	0.6902	0.6905
L11A	0.7297	0.7298	0.7299	0.7302	0.7304
L11B	0.7297	0.7298	0.7300	0.7302	0.7304
L11C	0.7297	0.7298	0.7299	0.7301	0.7304
U1	0.7297	0.7297	0.7298	0.7299	0.7300
U2	0.7297	0.7297	0.7296	0.7295	0.7295
U3	0.7098	0.7096	0.7093	0.7090	0.7087
U4	0.6998	0.6996	0.6991	0.6986	0.6981
U5	0.6799	0.6796	0.6790	0.6783	0.6777
U5A	0.6799	0.6795	0.6789	0.6783	0.6776

Table F.10 continued

AVERAGE SEGMENT SHEAR STRESS (4 MINUTE READINGS)

BKM 2 LOAD NUMBER CL.ELEV.	AVG VW SHEAR TSF 11.20	AVG VW SHEAR TSF 5.17	AVG VW SHEAR TSF -0.83	AVG VW SHEAR TSF -6.33	AVG VW SHEAR TSF -11.58
L0	-0.016	-0.016	-0.016	-0.016	-0.016
L1	-0.017	-0.020	-0.013	-0.018	-0.014
L1A	-0.017	-0.020	-0.013	-0.020	-0.012
L2	-0.017	-0.020	-0.014	-0.017	-0.012
L3	-0.017	-0.018	-0.014	-0.017	-0.008
L4	-0.016	-0.017	-0.014	-0.014	-0.007
L5	-0.014	-0.017	-0.014	-0.013	-0.007
L5A	-0.014	-0.017	-0.012	-0.014	-0.008
L6	-0.013	-0.015	-0.013	-0.012	-0.011
L7	-0.012	-0.014	-0.010	-0.010	-0.015
L8	-0.011	-0.012	-0.004	-0.008	-0.030
L9	-0.010	-0.001	0.000	-0.015	0.027
L10	0.010	-0.002	-0.001	-0.000	0.057
L11	0.012	0.002	-0.007	-0.005	0.052
L11A	0.009	-0.001	0.001	-0.014	0.054
L11B	0.009	-0.001	0.002	-0.016	0.055
L11C	0.008	-0.002	0.004	-0.019	0.056
U1	-0.010	-0.005	-0.017	-0.006	0.034
U2	-0.021	-0.045	-0.001	-0.018	0.026
U3	-0.058	-0.059	-0.020	-0.010	-0.005
U4	-0.077	-0.097	-0.010	-0.024	-0.027
U5	-0.093	-0.116	-0.017	-0.012	-0.036
U5A	-0.090	-0.116	-0.015	-0.012	-0.043

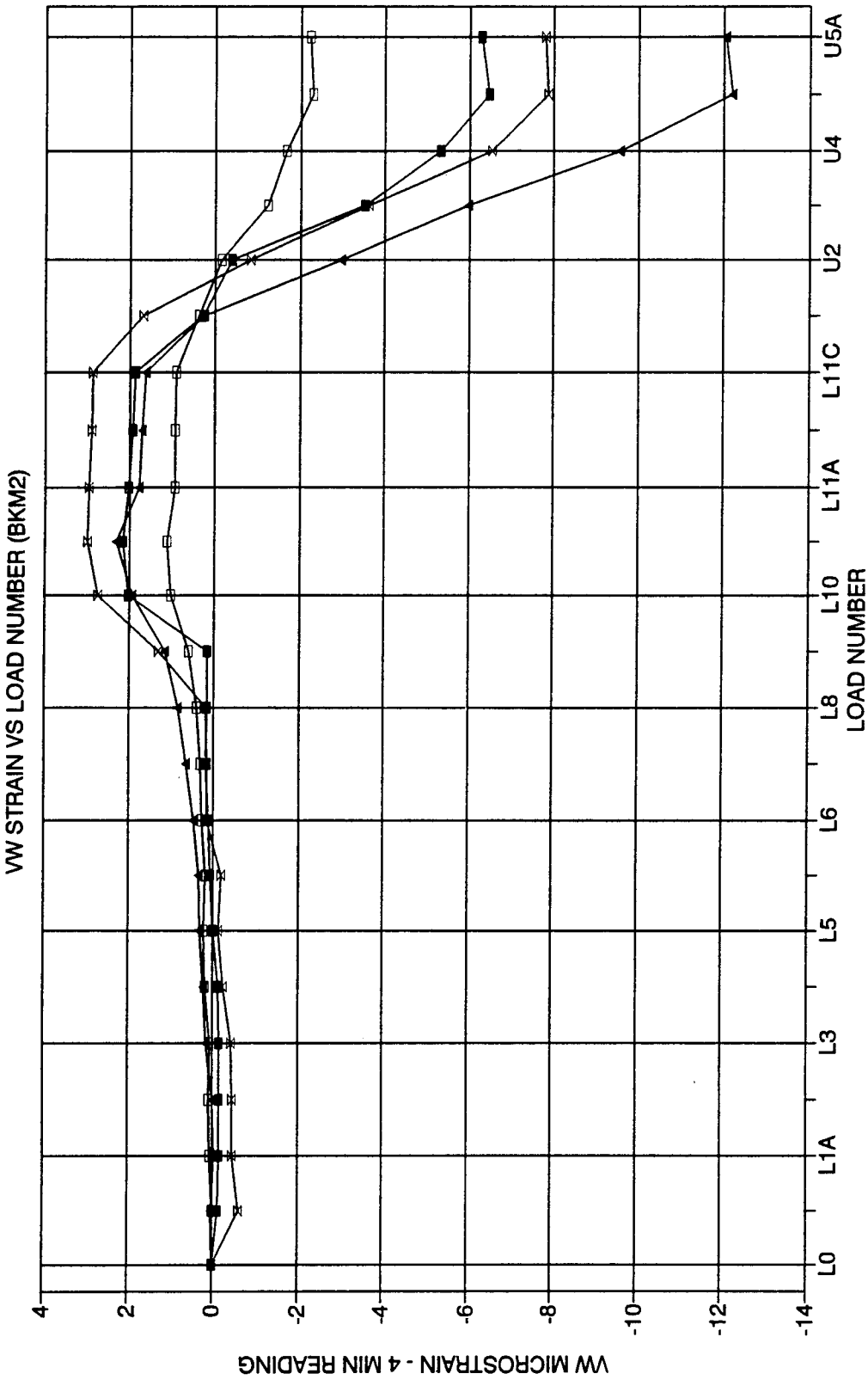

Figure F.41 Strain at Pile Top: Buckman Load Test 2

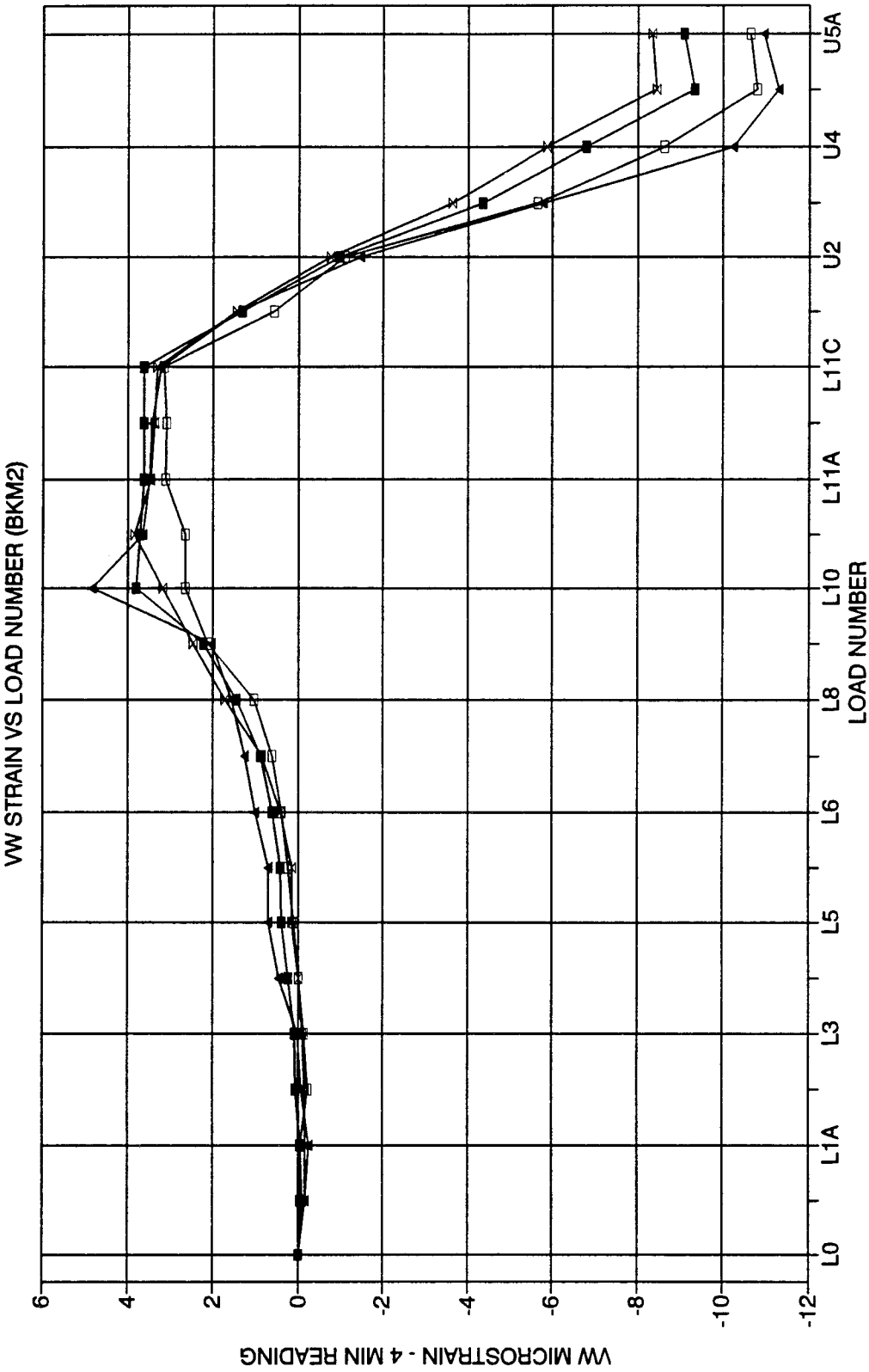

Figure F.42 Strain at Pile Middle: Buckman Load Test 2

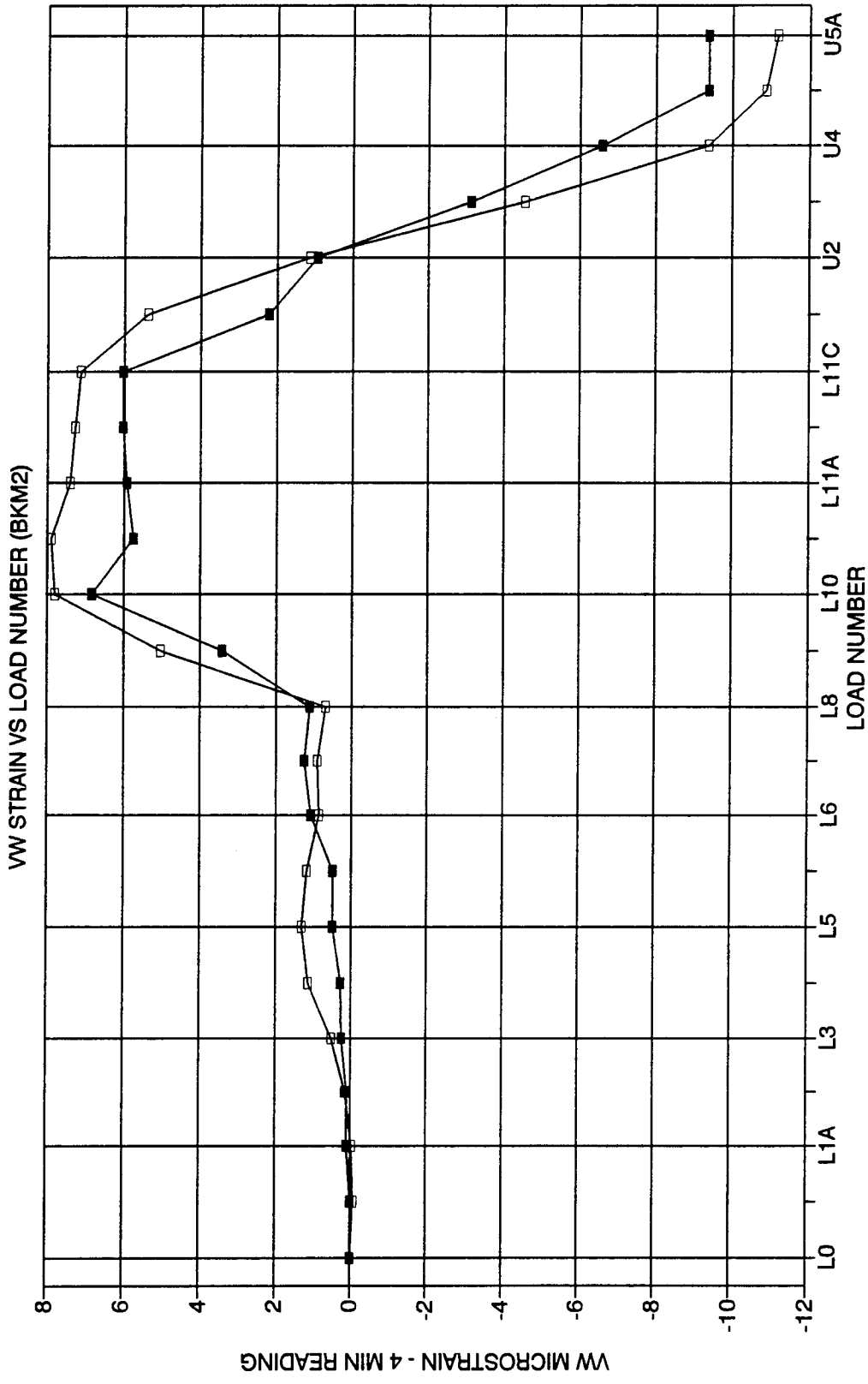

Figure F.43 Strain at Pile Bottom: Buckman Load Test 2

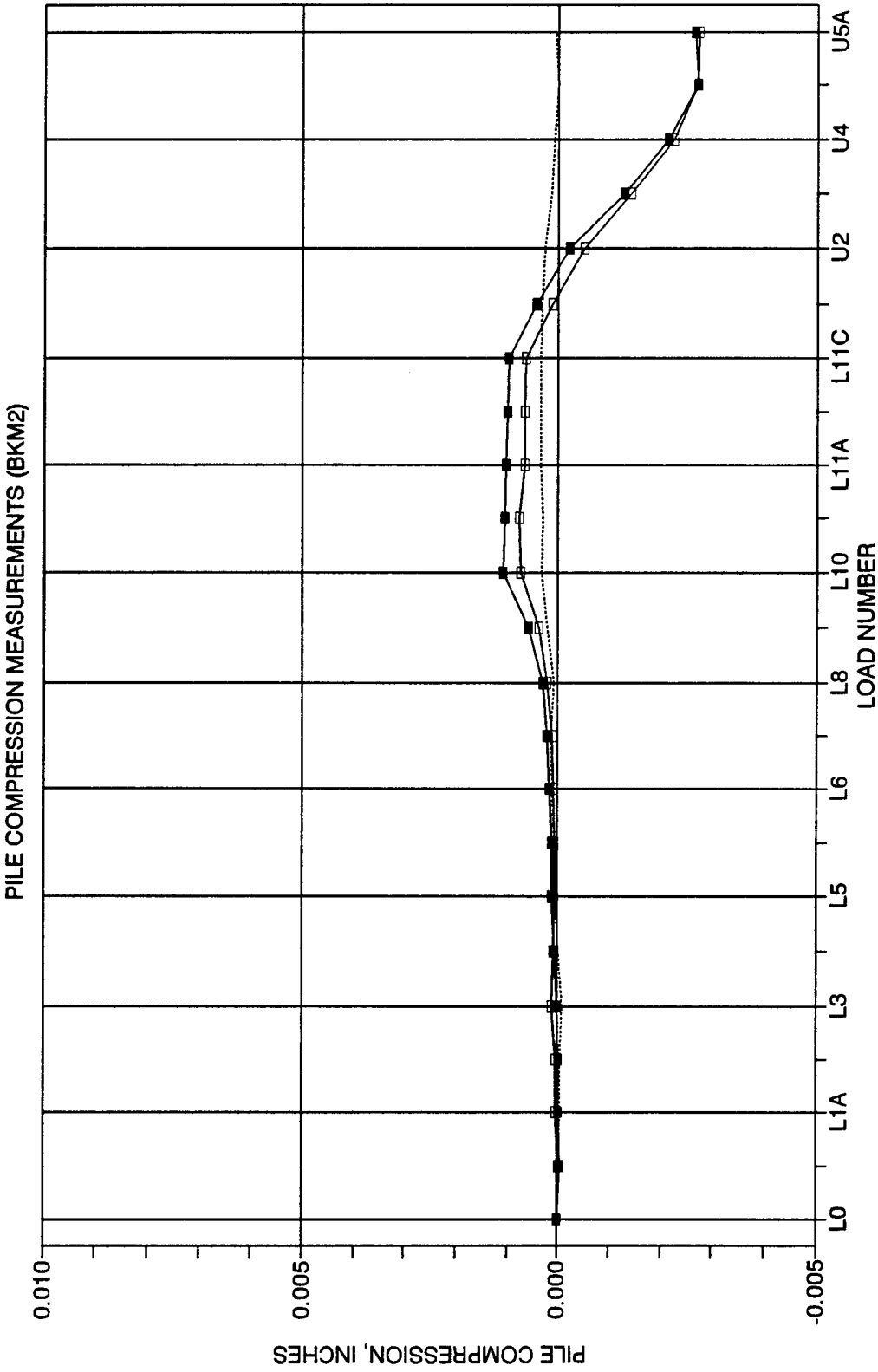

Figure F.44 Pile Compression Measurements: Buckman Load Test 2

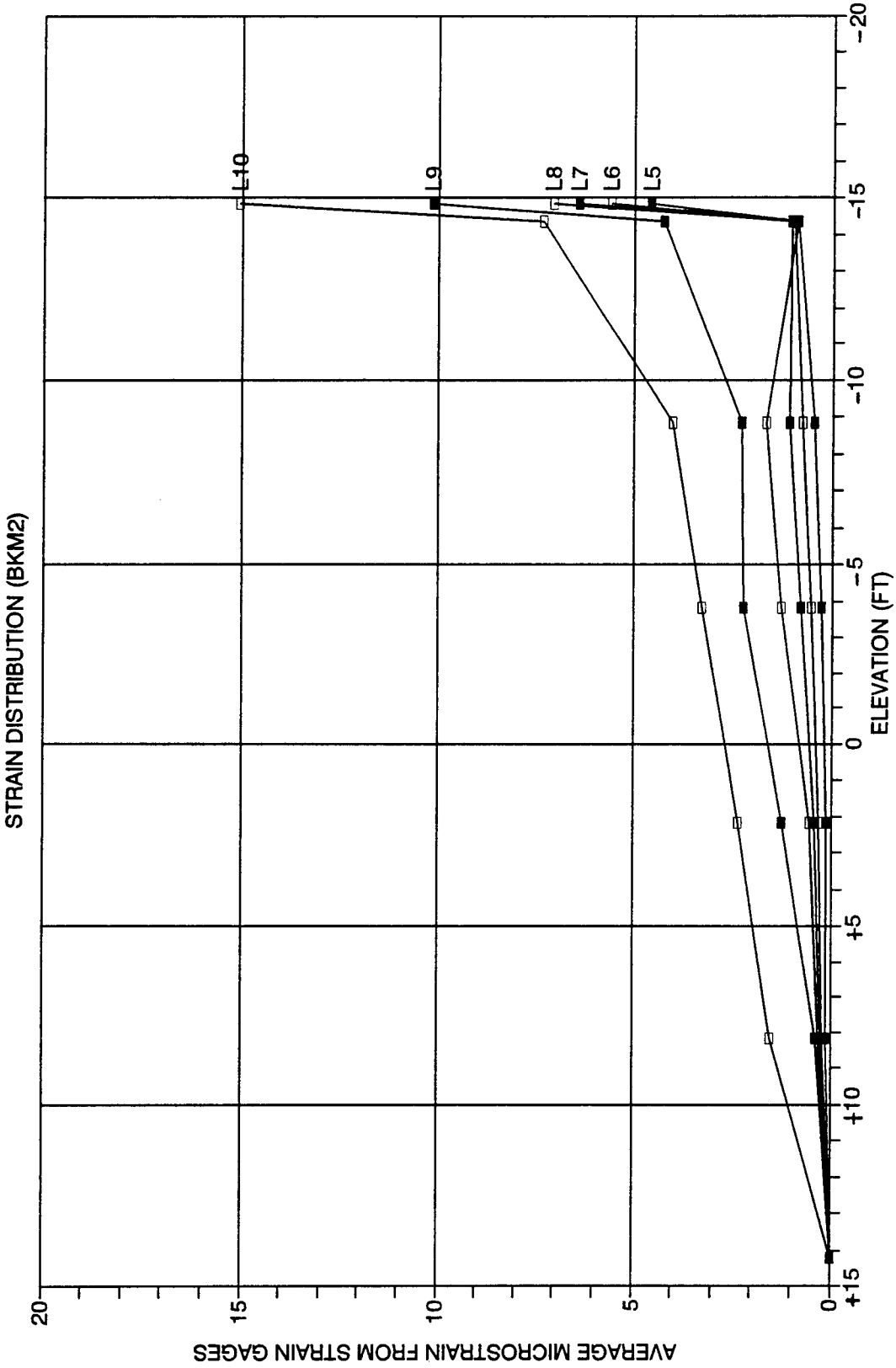

Figure F.45 Pile Strain Distribution: Buckman Load Test 2

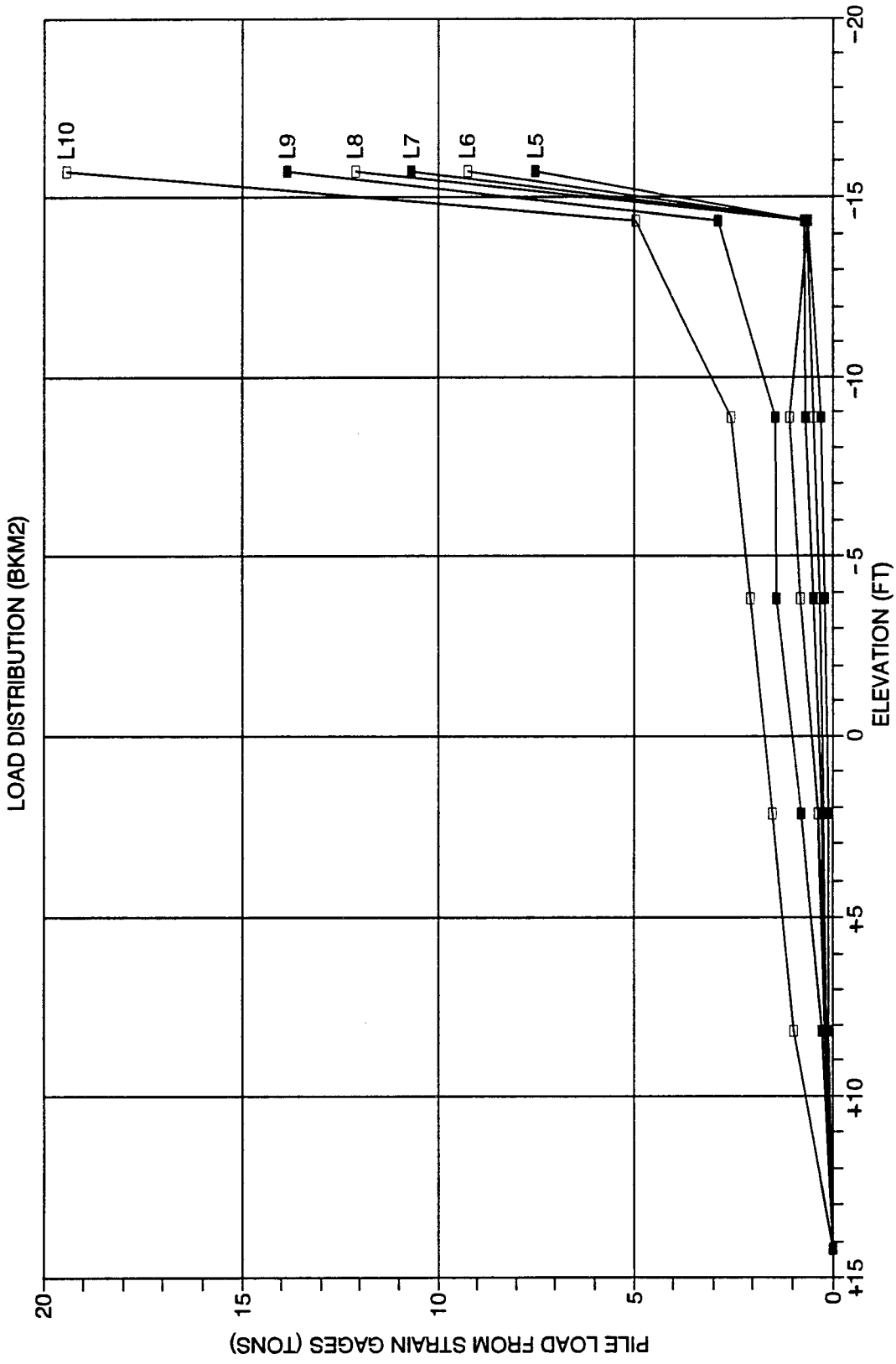

Figure F.46 Pile Load Distribution: Buckman Load Test 2

Table F.11 Strain Analyses: Buckman Load Test 3

VIBRATING WIRE INSTRUMENT READINGS - STRAIN

BKM 3 LOAD NUMBER	TIME	VW STRN FREQ^2 KHZ^2 43	VW STRN FREQ^2 KHZ^2 44	VW STRN FREQ^2 KHZ^2 55	VW STRN FREQ^2 KHZ^2 56	VW STRN FREQ^2 KHZ^2 57	VW STRN FREQ^2 KHZ^2 58	VW STRN FREQ^2 KHZ^2 59	VW STRN FREQ^2 KHZ^2 60	VW STRN FREQ^2 KHZ^2 61	VW STRN FREQ KHZ^2 62
L0	09:55:20	0.71425	0.74490	0.76766	0.77923	0.71669	0.69376	0.76128	0.74349	0.87611	0.88906
L0	11:02:32	0.71422	0.74487	0.76767	0.77922	0.71671	0.69377	0.76131	0.74347	0.87620	0.88910
L0	11:17:37	0.71422	0.74486	0.76767	0.77922	0.71673	0.69378	0.76131	0.74346	0.87625	0.88913
L1	11:32:18	0.71422	0.74486	0.76765	0.77921	0.71674	0.69378	0.76132	0.74349	0.87623	0.88907
L1	11:32:48	0.71421	0.74483	0.76765	0.77922	0.71672	0.69377	0.76132	0.74346	0.87622	0.88908
L1	11:33:49	0.71421	0.74485	0.76765	0.77921	0.71674	0.69377	0.76132	0.74350	0.87621	0.88907
L1	11:35:50	0.71421	0.74483	0.76765	0.77922	0.71673	0.69377	0.76133	0.74346	0.87621	0.88906
L2	11:37:28	0.71421	0.74485	0.76765	0.77921	0.71673	0.69374	0.76132	0.74347	0.87611	0.88898
L2	11:38:06	0.71421	0.74484	0.76764	0.77921	0.71673	0.69375	0.76130	0.74348	0.87610	0.88898
L2	11:39:00	0.71422	0.74483	0.76763	0.77920	0.71670	0.69373	0.76131	0.74348	0.87610	0.88898
L2	11:40:58	0.71421	0.74483	0.76765	0.77921	0.71672	0.69373	0.76131	0.74347	0.87610	0.88895
L3	11:42:04	0.71419	0.74481	0.76760	0.77918	0.71664	0.69365	0.76129	0.74345	0.87589	0.88848
L3	11:42:38	0.71419	0.74484	0.76760	0.77917	0.71667	0.69365	0.76129	0.74346	0.87594	0.88846
L3	11:43:36	0.71419	0.74482	0.76760	0.77918	0.71665	0.69365	0.76127	0.74346	0.87590	0.88846
L3	11:45:35	0.71418	0.74481	0.76760	0.77917	0.71665	0.69365	0.76128	0.74345	0.87598	0.88842
L4	11:46:50	0.71416	0.74479	0.76757	0.77912	0.71657	0.69356	0.76126	0.74338	0.87570	0.88849
L4	11:47:22	0.71416	0.74480	0.76757	0.77912	0.71659	0.69356	0.76125	0.74338	0.87574	0.88861
L4	11:48:21	0.71416	0.74480	0.76757	0.77914	0.71657	0.69356	0.76125	0.74338	0.87570	0.88858
L4	11:50:22	0.71416	0.74479	0.76757	0.77913	0.71657	0.69356	0.76126	0.74339	0.87574	0.88857
L5	11:51:47	0.71412	0.74476	0.76751	0.77906	0.71643	0.69347	0.76121	0.74317	0.87556	0.88852
L5	11:52:18	0.71412	0.74474	0.76751	0.77906	0.71643	0.69345	0.76121	0.74317	0.87556	0.88852
L5	11:53:17	0.71413	0.74475	0.76752	0.77906	0.71644	0.69346	0.76121	0.74317	0.87561	0.88853
L5	11:55:15	0.71412	0.74474	0.76751	0.77907	0.71645	0.69346	0.76121	0.74315	0.87557	0.88851
L6	11:56:30	0.71405	0.74467	0.76741	0.77899	0.71619	0.69324	0.76116	0.74280	0.87544	0.88791
L6	11:57:02	0.71405	0.74465	0.76740	0.77897	0.71624	0.69324	0.76117	0.74280	0.87542	0.88790
L6	11:58:01	0.71405	0.74468	0.76740	0.77898	0.71622	0.69324	0.76116	0.74282	0.87543	0.88789
L6	12:00:02	0.71405	0.74467	0.76741	0.77896	0.71624	0.69325	0.76117	0.74282	0.87543	0.88790
L7	12:01:10	0.71394	0.74452	0.76713	0.77891	0.71580	0.69294	0.76097	0.74251	0.87513	0.88706
L7	12:01:50	0.71393	0.74450	0.76713	0.77894	0.71579	0.69293	0.76095	0.74251	0.87514	0.88709
L7	12:02:41	0.71394	0.74451	0.76712	0.77892	0.71579	0.69294	0.76098	0.74252	0.87515	0.88710
L7	12:04:42	0.71393	0.74447	0.76711	0.77886	0.71575	0.69293	0.76095	0.74250	0.87511	0.88709
L8	12:05:58	0.71378	0.74413	0.76681	0.77859	0.71597	0.69253	0.76050	0.74174	0.87478	0.88671
L8	12:06:28	0.71377	0.74412	0.76681	0.77858	0.71594	0.69253	0.76048	0.74183	0.87478	0.88673
L8	12:07:28	0.71378	0.74412	0.76679	0.77857	0.71590	0.69252	0.76049	0.74175	0.87471	0.88670
L8	12:09:26	0.71376	0.74409	0.76679	0.77856	0.71591	0.69253	0.76048	0.74176	0.87477	0.88673
L9	12:10:35	0.71357	0.74419	0.76611	0.77790	0.71515	0.69215	0.76019	0.74152	0.87452	0.88602
L9	12:11:07	0.71358	0.74416	0.76613	0.77789	0.71515	0.69215	0.76022	0.74150	0.87451	0.88606
L9	12:12:04	0.71360	0.74418	0.76609	0.77788	0.71511	0.69214	0.76019	0.74149	0.87448	0.88603
L9	12:14:05	0.71360	0.74415	0.76608	0.77787	0.71511	0.69213	0.76018	0.74149	0.87445	0.88603
L10	12:15:49	0.71342	0.74385	0.76570	0.77745	0.71439	0.69160	0.75937	0.74095	0.87342	0.88549
L10	12:16:24	0.71342	0.74383	0.76569	0.77742	0.71439	0.69160	0.75936	0.74094	0.87337	0.88546
L10	12:17:26	0.71343	0.74382	0.76568	0.77741	0.71429	0.69160	0.75936	0.74099	0.87335	0.88543
L10	12:19:22	0.71343	0.74379	0.76568	0.77742	0.71427	0.69160	0.75934	0.74096	0.87333	0.88546

Table F.11 continued

VIBRATING WIRE INSTRUMENT READINGS - STRAIN

BKM 3 LOAD NUMBER	TIME	VW STRN FREQ^2 KHZ^2 43	VW STRN FREQ^2 KHZ^2 44	VW STRN FREQ^2 KHZ^2 55	VW STRN FREQ^2 KHZ^2 56	VW STRN FREQ^2 KHZ^2 57	VW STRN FREQ^2 KHZ^2 58	VW STRN FREQ^2 KHZ^2 59	VW STRN FREQ^2 KHZ^2 60	VW STRN FREQ^2 KHZ^2 61	VW STRN FREQ KHZ^2 62
L11	12:20:35	0.71328	0.74327	0.76527	0.77712	0.71450	0.69122	0.75881	0.74069	0.87231	0.88468
L11	12:21:07	0.71326	0.74324	0.76526	0.77708	0.71443	0.69124	0.75880	0.74070	0.87232	0.88465
L11	12:22:04	0.71331	0.74320	0.76525	0.77707	0.71439	0.69124	0.75879	0.74071	0.87232	0.88467
L11	12:24:03	0.71331	0.74319	0.76525	0.77706	0.71446	0.69124	0.75877	0.74070	0.87229	0.88467
L12	12:25:26	0.71322	0.74288	0.76493	0.77664	0.71382	0.69081	0.75822	0.74018	0.87153	0.88480
L12	12:25:55	0.71323	0.74287	0.76491	0.77662	0.71381	0.69083	0.75820	0.74017	0.87153	0.88483
L12	12:26:54	0.71322	0.74286	0.76490	0.77658	0.71375	0.69083	0.75818	0.74020	0.87152	0.88483
L12	12:29:06	0.71323	0.74286	0.76487	0.77658	0.71368	0.69083	0.75827	0.74017	0.87155	0.88480
L13	12:30:30	0.71327	0.74285	0.76456	0.77635	0.71308	0.69055	0.75802	0.73991	0.87109	0.88417
L13	12:31:06	0.71323	0.74284	0.76455	0.77636	0.71300	0.69053	0.75797	0.73988	0.87100	0.88416
L13	12:32:02	0.71321	0.74284	0.76460	0.77638	0.71302	0.69059	0.75798	0.73996	0.87103	0.88417
L13	12:34:00	0.71326	0.74285	0.76464	0.77640	0.71306	0.69064	0.75796	0.73999	0.87105	0.88420
L14	12:35:14	0.71319	0.74283	0.76470	0.77634	0.71282	0.69072	0.75776	0.74006	0.87099	0.88409
L14	12:35:44	0.71325	0.74284	0.76475	0.77628	0.71286	0.69072	0.75769	0.74008	0.87096	0.88413
L14	12:36:48	0.71322	0.74284	0.76480	0.77625	0.71284	0.69085	0.75746	0.74022	0.87099	0.88422
L14	12:38:34	0.71322	0.74276	0.76469	0.77613	0.71262	0.69085	0.75764	0.74030	0.87102	0.88439
L14A	12:42:44	0.71325	0.74279	0.76475	0.77623	0.71276	0.69099	0.75786	0.74051	0.87143	0.88468
U1	12:47:50	0.71348	0.74286	0.76529	0.77684	0.71402	0.69164	0.75834	0.74112	0.87209	0.88523
U2	12:51:33	0.71371	0.74309	0.76569	0.77725	0.71420	0.69220	0.75898	0.74163	0.87325	0.88600
U3	12:55:32	0.71389	0.74344	0.76603	0.77754	0.71441	0.69258	0.75945	0.74197	0.87430	0.88635
U4	12:59:37	0.71410	0.74401	0.76699	0.77840	0.71534	0.69327	0.76025	0.74274	0.87478	0.88713
U5i	13:02:06	0.71425	0.74412	0.76733	0.77883	0.71580	0.69376	0.76088	0.74320	0.87542	0.88800
U5	13:03:52	0.71424	0.74413	0.76733	0.77892	0.71578	0.69373	0.76086	0.74318	0.87541	0.88796
U6	13:07:44	0.71443	0.74466	0.76823	0.77947	0.71703	0.69466	0.76219	0.74404	0.87645	0.88831
U7	13:11:24	0.71443	0.74502	0.76898	0.78018	0.71780	0.69524	0.76300	0.74448	0.87748	0.88930
U8	13:15:10	0.71484	0.74594	0.77014	0.78091	0.71892	0.69614	0.76399	0.74544	0.87794	0.89075
U8A	13:18:50	0.71487	0.74592	0.77014	0.78089	0.71887	0.69608	0.76393	0.74543	0.87873	0.89075

Table F.11 continued

VIBRATING WIRE INSTRUMENT READINGS - TEMPERATURE

BKM 3 LOAD NUMBER	TIME	VW STRN TEMP DEG C 43	VW STRN TEMP DEG C 44	VW STRN TEMP DEG C 55	VW STRN TEMP DEG C 56	VW STRN TEMP DEG C 57	VW STRN TEMP DEG C 58	VW STRN TEMP DEG C 59	VW STRN TEMP DEG C 60	VW STRN TEMP DEG C 61	VW STRN TEMP DEG C 62
L0	09:55:20	21.296	21.110	20.587	20.648	21.296	21.203	21.856	21.856	22.483	22.200
L0	11:02:32	21.327	21.110	20.587	20.648	21.296	21.234	21.887	21.856	22.515	22.232
L0	11:17:37	21.323	21.107	20.615	20.645	21.292	21.231	21.883	21.852	22.511	22.228
L1	11:32:18	21.319	21.102	20.610	20.671	21.288	21.226	21.879	21.848	22.507	22.223
L1	11:32:48	21.319	21.102	20.610	20.641	21.288	21.226	21.879	21.879	22.507	22.223
L1	11:33:49	21.319	21.102	20.610	20.641	21.288	21.226	21.879	21.848	22.507	22.223
L1	11:35:50	21.318	21.102	20.610	20.640	21.288	21.226	21.878	21.847	22.506	22.223
L2	11:37:28	21.318	21.102	20.610	20.640	21.288	21.226	21.878	21.847	22.506	22.223
L2	11:38:06	21.318	21.102	20.609	20.640	21.287	21.225	21.878	21.847	22.506	22.223
L2	11:39:00	21.318	21.102	20.609	20.640	21.287	21.225	21.878	21.847	22.506	22.223
L2	11:40:58	21.318	21.101	20.609	20.640	21.287	21.225	21.878	21.846	22.506	22.222
L3	11:42:04	21.318	21.101	20.609	20.640	21.287	21.225	21.878	21.846	22.506	22.222
L3	11:42:38	21.318	21.101	20.609	20.640	21.287	21.225	21.878	21.846	22.506	22.222
L3	11:43:36	21.318	21.101	20.609	20.640	21.287	21.225	21.878	21.846	22.506	22.222
L3	11:45:35	21.316	21.099	20.607	20.638	21.285	21.223	21.875	21.844	22.535	22.251
L4	11:46:50	21.314	21.097	20.605	20.636	21.283	21.221	21.873	21.842	22.501	22.218
L4	11:47:22	21.314	21.097	20.605	20.636	21.283	21.221	21.873	21.842	22.533	22.218
L4	11:48:21	21.314	21.097	20.605	20.636	21.283	21.221	21.873	21.842	22.501	22.218
L4	11:50:22	21.314	21.098	20.606	20.636	21.283	21.222	21.874	21.843	22.502	22.219
L5	11:51:47	21.314	21.098	20.606	20.636	21.314	21.222	21.874	21.843	22.502	22.219
L5	11:52:18	21.314	21.098	20.636	20.636	21.314	21.222	21.874	21.843	22.502	22.219
L5	11:53:17	21.315	21.098	20.606	20.637	21.315	21.222	21.875	21.843	22.534	22.219
L5	11:55:15	21.315	21.098	20.637	20.637	21.315	21.222	21.875	21.843	22.502	22.219
L6	11:56:30	21.313	21.097	20.604	20.635	21.313	21.220	21.873	21.842	22.501	22.217
L6	11:57:02	21.313	21.097	20.604	20.635	21.313	21.220	21.873	21.842	22.501	22.217
L6	11:58:01	21.313	21.128	20.604	20.635	21.313	21.220	21.873	21.842	22.501	22.217
L6	12:00:02	21.312	21.095	20.603	20.664	21.312	21.219	21.872	21.840	22.499	22.216
L7	12:01:10	21.312	21.126	20.603	20.634	21.312	21.219	21.872	21.840	22.499	22.216
L7	12:01:50	21.311	21.094	20.602	20.633	21.311	21.218	21.870	21.839	22.498	22.215
L7	12:02:41	21.311	21.125	20.602	20.633	21.311	21.218	21.870	21.839	22.498	22.215
L7	12:04:42	21.310	21.093	20.601	20.663	21.310	21.217	21.870	21.838	22.497	22.214
L8	12:05:58	21.310	21.124	20.601	20.632	21.310	21.217	21.870	21.838	22.497	22.214
L8	12:06:28	21.341	21.124	20.601	20.632	21.310	21.217	21.870	21.870	22.497	22.245
L8	12:07:28	21.309	21.124	20.601	20.631	21.309	21.216	21.869	21.838	22.528	22.213
L8	12:09:26	21.309	21.124	20.601	20.631	21.309	21.216	21.869	21.838	22.497	22.213
L9	12:10:35	21.307	21.121	20.598	20.629	21.307	21.214	21.866	21.835	22.494	22.211
L9	12:11:07	21.338	21.121	20.598	20.629	21.307	21.245	21.866	21.866	22.494	22.211
L9	12:12:04	21.338	21.121	20.598	20.629	21.307	21.214	21.866	21.866	22.494	22.211
L9	12:14:05	21.336	21.119	20.596	20.627	21.305	21.212	21.864	21.864	22.492	22.209
L10	12:15:49	21.336	21.119	20.596	20.627	21.305	21.212	21.864	21.864	22.492	22.209
L10	12:16:24	21.336	21.120	20.596	20.627	21.305	21.212	21.865	21.865	22.492	22.209
L10	12:17:26	21.336	21.120	20.596	20.658	21.305	21.212	21.865	21.865	22.492	22.209
L10	12:19:22	21.334	21.118	20.625	20.625	21.303	21.210	21.863	21.863	22.490	22.207

Table F.11 continued

VIBRATING WIRE INSTRUMENT READINGS - TEMPERATURE

BKM 3 LOAD NUMBER	TIME	VW STRN TEMP DEG C 43	VW STRN TEMP DEG C 44	VW STRN TEMP DEG C 55	VW STRN TEMP DEG C 56	VW STRN TEMP DEG C 57	VW STRN TEMP DEG C 58	VW STRN TEMP DEG C 59	VW STRN TEMP DEG C 60	VW STRN TEMP DEG C 61	VW STRN TEMP DEG C 62
L11	12:20:35	21.334	21.118	20.595	20.625	21.303	21.210	21.863	21.863	22.490	22.207
L11	12:21:07	21.303	21.118	20.625	20.625	21.303	21.210	21.894	21.863	22.490	22.239
L11	12:22:04	21.333	21.116	20.594	20.624	21.333	21.209	21.861	21.861	22.489	22.206
L11	12:24:03	21.333	21.116	20.624	20.624	21.302	21.209	21.893	21.861	22.489	22.206
L12	12:25:26	21.332	21.115	20.623	20.623	21.301	21.208	21.860	21.860	22.488	22.205
L12	12:25:55	21.332	21.115	20.592	20.654	21.301	21.208	21.860	21.860	22.488	22.205
L12	12:26:54	21.332	21.115	20.623	20.623	21.301	21.208	21.860	21.860	22.488	22.205
L12	12:29:06	21.331	21.114	20.592	20.622	21.300	21.207	21.859	21.859	22.487	22.235
L13	12:30:30	21.331	21.114	20.622	20.622	21.300	21.207	21.859	21.859	22.487	22.204
L13	12:31:06	21.330	21.114	20.622	20.622	21.299	21.206	21.890	21.859	22.486	22.203
L13	12:32:02	21.330	21.114	20.622	20.622	21.299	21.206	21.859	21.890	22.486	22.203
L13	12:34:00	21.330	21.113	20.590	20.621	21.299	21.206	21.889	21.858	22.517	22.202
L14	12:35:14	21.330	21.113	20.590	20.621	21.299	21.237	21.858	21.858	22.486	22.202
L14	12:35:44	21.330	21.113	20.621	20.652	21.299	21.206	21.889	21.858	22.486	22.202
L14	12:36:48	21.329	21.113	20.590	20.620	21.298	21.205	21.889	21.858	22.485	22.202
L14	12:38:34	21.329	21.113	20.620	20.620	21.298	21.205	21.889	21.858	22.485	22.202
L14A	12:42:44	21.328	21.112	20.620	20.620	21.298	21.236	21.888	21.857	22.484	22.201
U1	12:47:50	21.328	21.112	20.620	20.620	21.328	21.204	21.888	21.857	22.516	22.201
U2	12:51:33	21.328	21.112	20.619	20.650	21.297	21.204	21.888	21.857	22.515	22.201
U3	12:55:32	21.328	21.111	20.619	20.619	21.297	21.204	21.888	21.856	22.484	22.232
U4	12:59:37	21.328	21.111	20.619	20.650	21.297	21.204	21.888	21.856	22.515	22.201
U5i	13:02:06	21.328	21.111	20.619	20.619	21.297	21.204	21.887	21.887	22.484	22.200
U5	13:03:52	21.328	21.111	20.619	20.650	21.297	21.204	21.887	21.856	22.484	22.200
U6	13:07:44	21.328	21.111	20.619	20.619	21.297	21.204	21.887	21.856	22.515	22.200
U7	13:11:24	21.327	21.111	20.619	20.650	21.327	21.235	21.887	21.856	22.515	22.200
U8	13:15:10	21.327	21.142	20.619	20.680	21.327	21.234	21.887	21.856	22.515	22.232
U8A	13:18:50	21.327	21.142	20.619	20.649	21.296	21.204	21.887	21.887	22.515	22.232

Table F.11 continued

VIBRATING WIRE CALCULATED STRAIN INCREMENTS

BKM 3 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 43	VW STRN MICRO STRAIN 44	VW STRN MICRO STRAIN 55	VW STRN MICRO STRAIN 56	VW STRN MICRO STRAIN 57	VW STRN MICRO STRAIN 58	VW STRN MICRO STRAIN 59	VW STRN MICRO STRAIN 60	VW STRN MICRO STRAIN 61	VW STRN MICRO STRAIN 62
L0	09:55:20	-0.1	-0.1	0.1	-0.0	0.1	0.1	0.1	-0.1	0.5	0.3
L0	11:02:32	-0.0	-0.0	0.0	-0.0	0.1	0.0	-0.0	-0.0	0.2	0.1
L0	11:17:37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
L1	11:32:18	0.0	0.0	0.1	-0.0	-0.0	0.0	-0.0	-0.1	0.1	0.2
L1	11:32:48	0.0	0.1	0.1	0.0	0.0	0.0	-0.0	-0.0	0.1	0.2
L1	11:33:49	0.0	0.0	0.1	0.0	-0.0	0.0	-0.0	-0.1	0.1	0.2
L1	11:35:50	0.0	0.1	0.1	0.0	0.0	0.0	-0.1	0.0	0.1	0.2
L2	11:37:28	0.0	0.0	0.1	0.0	0.0	0.1	-0.0	-0.0	0.5	0.5
L2	11:38:06	0.0	0.1	0.1	0.0	0.0	0.1	0.0	-0.1	0.5	0.5
L2	11:39:00	0.0	0.1	0.1	0.1	0.1	0.2	0.0	-0.1	0.5	0.5
L2	11:40:58	0.0	0.1	0.1	0.0	0.0	0.2	0.0	-0.0	0.5	0.6
L3	11:42:04	0.1	0.2	0.2	0.1	0.3	0.4	0.1	0.0	1.2	2.2
L3	11:42:38	0.1	0.1	0.2	0.2	0.2	0.4	0.1	0.0	1.0	2.2
L3	11:43:36	0.1	0.1	0.2	0.1	0.3	0.4	0.1	0.0	1.2	2.2
L3	11:45:35	0.1	0.2	0.2	0.2	0.3	0.4	0.1	0.0	0.9	2.3
L4	11:46:50	0.2	0.2	0.3	0.3	0.5	0.7	0.2	0.3	1.8	2.1
L4	11:47:22	0.2	0.2	0.3	0.3	0.5	0.7	0.2	0.3	1.7	1.7
L4	11:48:21	0.2	0.2	0.3	0.3	0.5	0.7	0.2	0.3	1.8	1.8
L4	11:50:22	0.2	0.2	0.3	0.3	0.5	0.7	0.2	0.2	1.7	1.9
L5	11:51:47	0.3	0.3	0.5	0.5	1.0	1.0	0.3	1.0	2.3	2.0
L5	11:52:18	0.3	0.4	0.5	0.5	1.0	1.1	0.3	1.0	2.3	2.0
L5	11:53:17	0.3	0.4	0.5	0.5	0.9	1.1	0.3	1.0	2.1	2.0
L5	11:55:15	0.3	0.4	0.5	0.5	0.9	1.1	0.3	1.0	2.3	2.1
L6	11:56:30	0.6	0.6	0.9	0.8	1.8	1.8	0.5	2.2	2.7	4.0
L6	11:57:02	0.6	0.7	0.9	0.8	1.6	1.8	0.5	2.2	2.8	4.1
L6	11:58:01	0.6	0.6	0.9	0.8	1.7	1.8	0.5	2.1	2.7	4.1
L6	12:00:02	0.6	0.6	0.9	0.8	1.6	1.8	0.5	2.1	2.7	4.1
L7	12:01:10	0.9	1.1	1.8	1.0	3.0	2.8	1.1	3.2	3.7	6.9
L7	12:01:50	1.0	1.2	1.8	0.9	3.1	2.8	1.2	3.2	3.7	6.8
L7	12:02:41	0.9	1.1	1.8	1.0	3.1	2.8	1.1	3.1	3.7	6.7
L7	12:04:42	1.0	1.3	1.9	1.2	3.2	2.8	1.2	3.2	3.8	6.8
L8	12:05:58	1.5	2.4	2.9	2.1	2.5	4.1	2.7	5.7	4.9	8.0
L8	12:06:28	1.5	2.4	2.9	2.1	2.6	4.1	2.8	5.4	4.9	7.9
L8	12:07:28	1.5	2.4	2.9	2.2	2.7	4.2	2.7	5.7	5.1	8.0
L8	12:09:26	1.5	2.5	2.9	2.2	2.7	4.1	2.8	5.6	4.9	7.9
L9	12:10:35	2.2	2.2	5.2	4.4	5.2	5.4	3.7	6.4	5.7	10.3
L9	12:11:07	2.1	2.3	5.1	4.4	5.2	5.4	3.6	6.5	5.8	10.2
L9	12:12:04	2.0	2.2	5.2	4.4	5.3	5.4	3.7	6.5	5.9	10.3
L9	12:14:05	2.0	2.3	5.3	4.5	5.3	5.5	3.8	6.5	6.0	10.3
L10	12:15:49	2.6	3.3	6.5	5.9	7.7	7.2	6.4	8.3	9.4	12.1
L10	12:16:24	2.6	3.4	6.6	6.0	7.7	7.2	6.5	8.3	9.5	12.2
L10	12:17:26	2.6	3.4	6.6	6.0	8.0	7.2	6.5	8.1	9.6	12.2
L10	12:19:22	2.6	3.5	6.6	6.0	8.1	7.2	6.5	8.2	9.7	12.2

Table F.11 continued

VIBRATING WIRE CALCULATED STRAIN INCREMENTS

BKM 3 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 43	VW STRN MICRO STRAIN 44	VW STRN MICRO STRAIN 55	VW STRN MICRO STRAIN 56	VW STRN MICRO STRAIN 57	VW STRN MICRO STRAIN 58	VW STRN MICRO STRAIN 59	VW STRN MICRO STRAIN 60	VW STRN MICRO STRAIN 61	VW STRN MICRO STRAIN 62
L11	12:20:35	3.1	5.2	8.0	7.0	7.4	8.5	8.3	9.1	13.0	14.7
L11	12:21:07	3.2	5.3	7.9	7.1	7.6	8.4	8.3	9.1	13.0	14.8
L11	12:22:04	3.0	5.5	8.0	7.1	7.7	8.4	8.4	9.1	13.0	14.8
L11	12:24:03	3.0	5.5	8.0	7.2	7.5	8.4	8.4	9.1	13.1	14.8
L12	12:25:26	3.3	6.5	9.0	8.6	9.6	9.8	10.2	10.8	15.6	14.3
L12	12:25:55	3.3	6.6	9.1	8.6	9.6	9.8	10.3	10.9	15.6	14.2
L12	12:26:54	3.3	6.6	9.1	8.8	9.8	9.8	10.4	10.8	15.7	14.2
L12	12:29:06	3.3	6.6	9.3	8.8	10.1	9.8	10.1	10.9	15.6	14.3
L13	12:30:30	3.1	6.6	10.3	9.5	12.0	10.7	10.9	11.7	17.1	16.4
L13	12:31:06	3.3	6.7	10.3	9.5	12.3	10.8	11.0	11.8	17.4	16.5
L13	12:32:02	3.3	6.7	10.1	9.4	12.2	10.6	11.0	11.5	17.3	16.4
L13	12:34:00	3.2	6.6	10.0	9.3	12.1	10.4	11.1	11.5	17.2	16.3
L14	12:35:14	3.4	6.7	9.8	9.5	12.9	10.1	11.8	11.2	17.4	16.7
L14	12:35:44	3.2	6.7	9.6	9.7	12.8	10.1	12.0	11.2	17.5	16.6
L14	12:36:48	3.3	6.7	9.5	9.8	12.8	9.7	12.7	10.7	17.4	16.3
L14	12:38:34	3.3	6.9	9.8	10.2	13.6	9.7	12.1	10.4	17.3	15.7
L14A	12:42:44	3.2	6.8	9.6	9.9	13.1	9.2	11.4	9.7	16.0	14.7
U1	12:47:50	2.4	6.6	7.9	7.9	8.9	7.1	9.8	7.7	13.7	12.9
U2	12:51:33	1.7	5.8	6.5	6.5	8.4	5.3	7.7	6.0	9.9	10.4
U3	12:55:32	1.1	4.7	5.4	5.6	7.7	4.0	6.1	4.9	6.5	9.2
U4	12:59:37	0.4	2.8	2.2	2.7	4.6	1.7	3.5	2.4	4.9	6.6
U5i	13:02:06	-0.1	2.4	1.1	1.3	3.1	0.1	1.4	0.8	2.8	3.8
U5	13:03:52	-0.1	2.4	1.1	1.0	3.1	0.2	1.5	0.9	2.8	3.9
U6	13:07:44	-0.7	0.7	-1.9	-0.8	-1.0	-2.9	-2.9	-1.9	-0.7	2.7
U7	13:11:24	-0.7	-0.5	-4.3	-3.2	-3.6	-4.8	-5.6	-3.4	-4.1	-0.5
U8	13:15:10	-2.1	-3.6	-8.2	-5.6	-7.3	-7.8	-8.9	-6.5	-5.6	-5.4
U8A	13:18:50	-2.2	-3.5	-8.2	-5.5	-7.1	-7.6	-8.7	-6.6	-8.2	-5.4

Table F.11 continued

VIBRATING WIRE CALCULATED STRAIN (4 MINUTE READINGS)

BKM 3 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 43	VW STRN MICRO STRAIN 44	VW STRN MICRO STRAIN 55	VW STRN MICRO STRAIN 56	VW STRN MICRO STRAIN 57	VW STRN MICRO STRAIN 58	VW STRN MICRO STRAIN 59	VW STRN MICRO STRAIN 60	VW STRN MICRO STRAIN 61	VW STRN MICRO STRAIN 62
L0	11:17:37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
L1	11:35:50	0.0	0.1	0.1	0.0	0.0	0.0	-0.1	0.0	0.1	0.2
L2	11:40:58	0.0	0.1	0.1	0.0	0.0	0.2	0.0	-0.0	0.5	0.6
L3	11:45:35	0.1	0.2	0.2	0.2	0.3	0.4	0.1	0.0	0.9	2.3
L4	11:50:22	0.2	0.2	0.3	0.3	0.5	0.7	0.2	0.2	1.7	1.9
L5	11:55:15	0.3	0.4	0.5	0.5	0.9	1.1	0.3	1.0	2.3	2.1
L6	12:00:02	0.6	0.6	0.9	0.8	1.6	1.8	0.5	2.1	2.7	4.1
L7	12:04:42	1.0	1.3	1.9	1.2	3.2	2.8	1.2	3.2	3.8	6.8
L8	12:09:26	1.5	2.5	2.9	2.2	2.7	4.1	2.8	5.6	4.9	7.9
L9	12:14:05	2.0	2.3	5.3	4.5	5.3	5.5	3.8	6.5	6.0	10.3
L10	12:19:22	2.6	3.5	6.6	6.0	8.1	7.2	6.5	8.2	9.7	12.2
L11	12:24:03	3.0	5.5	8.0	7.2	7.5	8.4	8.4	9.1	13.1	14.8
L12	12:29:06	3.3	6.6	9.3	8.8	10.1	9.8	10.1	10.9	15.6	14.3
L13	12:34:00	3.2	6.6	10.0	9.3	12.1	10.4	11.1	11.5	17.2	16.3
L14	12:38:34	3.3	6.7	9.5	9.8	12.8	9.7	12.7	10.7	17.4	16.3
L14A	12:42:44	3.2	6.8	9.6	9.9	13.1	9.2	11.4	9.7	16.0	14.7
U1	12:47:50	2.4	6.6	7.9	7.9	8.9	7.1	9.8	7.7	13.7	12.9
U2	12:51:33	1.7	5.8	6.5	6.5	8.4	5.3	7.7	6.0	9.9	10.4
U3	12:55:32	1.1	4.7	5.4	5.6	7.7	4.0	6.1	4.9	6.5	9.2
U4	12:59:37	0.4	2.8	2.2	2.7	4.6	1.7	3.5	2.4	4.9	6.6
U5	13:03:52	-0.1	2.4	1.1	1.0	3.1	0.2	1.5	0.9	2.8	3.9
U6	13:07:44	-0.7	0.7	-1.9	-0.8	-1.0	-2.9	-2.9	-1.9	-0.7	2.7
U7	13:11:24	-0.7	-0.5	-4.3	-3.2	-3.6	-4.8	-5.6	-3.4	-4.1	-0.5
U8	13:15:10	-2.1	-3.6	-8.2	-5.6	-7.3	-7.8	-8.9	-6.5	-5.6	-5.4
U8A	13:18:50	-2.2	-3.5	-8.2	-5.5	-7.1	-7.6	-8.7	-6.6	-8.2	-5.4

NOTE: FAILURE OCCURRED JUST PRIOR TO 4 MIN READING DURING L14.
STRAIN MEASURED DURING 2 MIN READING SHOWN ABOVE.

Table F.11 continued

AVERAGE STRAIN AT EACH GAGE LEVEL, INTEGRATED PILE COMPRESSION & COMPARISON WITH TELLTALE MEASUREMENT (4 MINUTE READINGS)

BKM 3 LOAD NUMBER	AVG VW MICRO STRAIN SURFACE	AVG VW MICRO STRAIN 43+44	AVG VW MICRO STRAIN 55+56	AVG VW MICRO STRAIN 57+58	AVG VW MICRO STRAIN 59+60	AVG VW MICRO STRAIN 61+62	EST'D. MICRO STRAIN CELL TOP	PILE COMPRESSION SG MSMT. INCHES	TT MSMT. INCHES	ABS.DIFF. SG-TT INCHES
L0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0000	0.0000	0.0000
L1	0.0	0.1	0.0	0.0	-0.0	0.2	0.4	0.0000	0.0000	-0.0000
L2	0.0	0.1	0.1	0.1	-0.0	0.6	1.6	0.0000	0.0000	-0.0000
L3	0.0	0.2	0.2	0.4	0.1	1.6	3.1	0.0001	0.0001	-0.0000
L4	0.0	0.2	0.3	0.6	0.2	1.8	4.0	0.0002	0.0002	-0.0000
L5	0.0	0.4	0.5	1.0	0.7	2.2	5.1	0.0003	0.0003	-0.0001
L6	0.0	0.6	0.9	1.7	1.3	3.4	6.7	0.0004	0.0005	-0.0000
L7	0.0	1.1	1.5	3.0	2.2	5.3	8.7	0.0007	0.0007	0.0000
L8	0.0	2.0	2.6	3.4	4.2	6.4	10.2	0.0011	0.0011	0.0000
L9	0.0	2.2	4.9	5.4	5.1	8.1	12.1	0.0015	0.0015	0.0000
L10	0.0	3.1	6.3	7.7	7.4	10.9	14.7	0.0021	0.0019	0.0002
L11	0.0	4.2	7.6	8.0	8.7	13.9	17.5	0.0025	0.0023	0.0002
L12	0.0	4.9	9.0	9.9	10.5	14.9	18.9	0.0029	0.0027	0.0002
L13	0.0	4.9	9.7	11.3	11.3	16.7	20.9	0.0032	0.0030	0.0002
L14	0.0	5.0	9.7	11.3	11.7	16.8	21.6	0.0032	0.0030	0.0002
L14A	0.0	5.0	9.8	11.2	10.6	15.3	19.8	0.0031	0.0030	0.0001
U1	0.0	4.5	7.9	8.0	8.8	13.3	16.6	0.0025	0.0025	0.0000
U2	0.0	3.8	6.5	6.8	6.9	10.1	13.6	0.0020	0.0022	-0.0001
U3	0.0	2.9	5.5	5.8	5.5	7.8	11.3	0.0017	0.0019	-0.0002
U4	0.0	1.6	2.5	3.2	2.9	5.7	8.7	0.0009	0.0014	-0.0004
U5	0.0	1.2	1.1	1.7	1.2	3.4	2.8	0.0005	0.0009	-0.0005
U6	0.0	-0.0	-1.3	-1.9	-2.4	1.0	-0.8	-0.0003	0.0002	-0.0005
U7	0.0	-0.6	-3.8	-4.2	-4.5	-2.3	-2.7	-0.0010	-0.0003	-0.0007
U8	0.0	-2.8	-6.9	-7.5	-7.7	-5.5	0.0	-0.0019	-0.0011	-0.0008
U8A	0.0	-2.9	-6.8	-7.3	-7.6	-6.8	0.0	-0.0019	-0.0010	-0.0009
ELEV. FT	14.22	8.17	2.17	-3.83	-8.83	-14.33	-14.83			

Table F.11 continued

VIBRATING WIRE CALCULATED AVERAGE LOADS (4 MINUTE READINGS)

LA = 5.50 ft ACA = 317.115 si
LB = 1.38 ft ACB = 313.155 si
B = 18.00 in ASA = 3.538 si
ES = 27500.0 ksi ASB = 7.498 si

BKM 3 LOAD NUMBER	AVG VW LOAD TONS SURFACE	AVG VW LOAD TONS 43+44	AVG VW LOAD TONS 55+56	AVG VW LOAD TONS 57+58	AVG VW LOAD TONS 59+60	AVG VW LOAD TONS 61+62	OSTERBERG LOAD TONS BOTTOM	INCR. PILE MODULUS KSI	CALC. PILE A MODULUS KSI	CALC. PILE B MODULUS KSI
L0	0.0	0.00	0.00	0.00	0.00	0.00	0.0		4133.2	4421.4
L1	0.0	0.05	0.03	0.01	-0.02	0.13	0.6	20587.4	4133.2	4421.4
L2	0.0	0.05	0.04	0.07	-0.01	0.40	2.4	30736.6	4133.2	4421.4
L3	0.0	0.11	0.14	0.24	0.05	1.14	4.1	10009.8	4133.2	4421.4
L4	0.0	0.15	0.22	0.43	0.14	1.27	5.7	50626.9	4133.2	4421.4
L5	0.0	0.25	0.34	0.66	0.46	1.55	7.3	26844.5	4133.2	4421.4
L6	0.0	0.41	0.57	1.12	0.87	2.44	9.0	8161.5	4133.2	4421.4
L7	0.0	0.76	1.02	2.02	1.47	3.78	10.5	5085.0	4133.2	4421.4
L8	0.0	1.36	1.72	2.29	2.81	4.60	12.1	8184.3	4133.2	4421.4
L9	0.0	1.46	3.27	3.62	3.43	5.82	13.7	5930.4	4133.2	4421.4
L10	0.0	2.05	4.20	5.14	4.95	7.82	15.3	3577.7	4133.2	4421.4
L11	0.0	2.85	5.07	5.33	5.85	9.98	17.0	3490.7	4133.2	4421.4
L12	0.0	3.30	6.04	6.64	7.01	10.69	18.5	9454.2	4133.2	4421.4
L13	0.0	3.28	6.49	7.54	7.54	12.00	20.1	5454.5	4133.2	4421.4
L14	0.0	3.34	6.48	7.55	7.84	12.06	21.5	99178.5	4133.2	4421.4
L14A	0.0	3.36	6.55	7.47	7.07	10.99	19.8		4133.2	4421.4
U1	0.0	3.03	5.27	5.36	5.87	9.55	16.0		4133.2	4421.4
U2	0.0	2.52	4.37	4.56	4.60	7.26	14.0		4133.2	4421.4
U3	0.0	1.93	3.68	3.90	3.70	5.61	12.5		4133.2	4421.4
U4	0.0	1.07	1.66	2.11	1.96	4.12	10.0		4133.2	4421.4
U5	0.0	-0.41	-2.51	-2.82	-3.00	-1.65	8.4		4133.2	4421.4
U6	0.0	-1.90	-4.62	-5.05	-5.16	-3.92	5.4		4133.2	4421.4
U7	0.0	-1.91	-4.58	-4.90	-5.09	-4.86	3.2		4133.2	4421.4
U8	0.0	0.00	0.00	0.00	0.00	0.00	0.0		4133.2	4421.4
U8A	0.0	0.00	0.00	0.00	0.00	0.00	0.0		4133.2	4421.4

ELEV. FT	14.22	8.17	2.17	-3.83	-8.83	-14.33	-15.71	3916.1 KSI = CONCRETE MODULUS

Table F.11 continued

INTEGRATED MOVEMENT AT VW STRAIN GAGE (4 MINUTE READINGS)

BKM 3 LOAD NUMBER	VW MOVEMENT INCHES SURFACE	VW MOVEMENT INCHES 43+44	VW MOVEMENT INCHES 55+56	VW MOVEMENT INCHES 57+58	VW MOVEMENT INCHES 59+60	VW MOVEMENT INCHES 61+62	VW MOVEMENT INCHES CELL TOP
L0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L3	0.0000	0.0000	0.0000	0.0000	0.0001	0.0001	0.0001
L4	0.0000	0.0000	0.0001	0.0001	0.0001	0.0002	0.0002
L5	0.0001	0.0001	0.0001	0.0001	0.0002	0.0003	0.0003
L6	0.0050	0.0051	0.0051	0.0052	0.0053	0.0054	0.0055
L7	0.0050	0.0050	0.0051	0.0053	0.0054	0.0057	0.0057
L8	0.0100	0.0101	0.0102	0.0104	0.0107	0.0110	0.0111
L9	0.0100	0.0100	0.0103	0.0107	0.0110	0.0114	0.0115
L10	0.0098	0.0100	0.0103	0.0108	0.0112	0.0118	0.0119
L11	0.0198	0.0200	0.0204	0.0210	0.0215	0.0222	0.0223
L12	0.0248	0.0250	0.0255	0.0261	0.0268	0.0276	0.0277
L13	0.0398	0.0400	0.0405	0.0412	0.0419	0.0428	0.0430
L14	0.3098	0.3100	0.3105	0.3113	0.3120	0.3129	0.3130
L14A	0.3849	0.3851	0.3856	0.3864	0.3870	0.3879	0.3880
U1	0.3800	0.3801	0.3806	0.3812	0.3817	0.3824	0.3825
U2	0.3801	0.3803	0.3807	0.3811	0.3815	0.3821	0.3822
U3	0.3752	0.3753	0.3756	0.3760	0.3764	0.3768	0.3769
U4	0.3704	0.3705	0.3706	0.3708	0.3710	0.3713	0.3714
U5	0.3705	0.3705	0.3706	0.3707	0.3708	0.3709	0.3710
U6	0.3655	0.3655	0.3655	0.3654	0.3652	0.3652	0.3652
U7	0.3507	0.3507	0.3505	0.3502	0.3500	0.3497	0.3497
U8	0.3308	0.3307	0.3303	0.3298	0.3294	0.3289	0.3289
U8A	0.3309	0.3308	0.3304	0.3299	0.3295	0.3290	0.3290

Table F.11 continued

INTEGRATED MOVEMENT AT SEGMENT CL (4 MINUTE READINGS)

BKM 3 LOAD NUMBER	AVG VW MOVEMENT INCHES	AVG VW MOVEMENT INCHES	AVG VW MOVEMENT INCHES	AVG VW MOVEMENT INCHES	AVG VW MOVEMENT INCHES
CL.ELEV.	11.20	5.17	-0.83	-6.33	-11.58
L0	0.0000	0.0000	0.0000	0.0000	0.0000
L1	0.0000	0.0000	0.0000	0.0000	0.0000
L2	0.0000	0.0000	0.0000	0.0000	0.0000
L3	0.0000	0.0000	0.0000	0.0001	0.0001
L4	0.0000	0.0001	0.0001	0.0001	0.0002
L5	0.0001	0.0001	0.0001	0.0002	0.0002
L6	0.0050	0.0051	0.0051	0.0052	0.0054
L7	0.0050	0.0051	0.0052	0.0054	0.0056
L8	0.0100	0.0101	0.0103	0.0106	0.0108
L9	0.0100	0.0102	0.0105	0.0108	0.0112
L10	0.0099	0.0101	0.0105	0.0110	0.0115
L11	0.0199	0.0202	0.0207	0.0212	0.0218
L12	0.0249	0.0252	0.0258	0.0265	0.0272
L13	0.0399	0.0402	0.0409	0.0416	0.0424
L14	0.3099	0.3103	0.3109	0.3116	0.3125
L14A	0.3850	0.3854	0.3860	0.3867	0.3875
U1	0.3801	0.3804	0.3809	0.3814	0.3820
U2	0.3802	0.3805	0.3809	0.3813	0.3818
U3	0.3753	0.3755	0.3758	0.3762	0.3766
U4	0.3705	0.3706	0.3707	0.3709	0.3712
U5	0.3705	0.3706	0.3706	0.3707	0.3709
U6	0.3655	0.3655	0.3654	0.3653	0.3652
U7	0.3507	0.3506	0.3504	0.3501	0.3498
U8	0.3307	0.3305	0.3301	0.3296	0.3291
U8A	0.3308	0.3306	0.3302	0.3297	0.3292

Table F.11 continued

AVERAGE SEGMENT SHEAR STRESS (4 MINUTE READINGS)

BKM 3 LOAD NUMBER CL.ELEV.	AVG VW SHEAR TSF 11.20	AVG VW SHEAR TSF 5.17	AVG VW SHEAR TSF -0.83	AVG VW SHEAR TSF -6.33	AVG VW SHEAR TSF -11.58
L0	-0.016	-0.016	-0.016	-0.016	-0.016
L1	-0.015	-0.017	-0.017	-0.018	-0.012
L2	-0.015	-0.017	-0.016	-0.019	-0.004
L3	-0.014	-0.016	-0.014	-0.023	0.016
L4	-0.012	-0.015	-0.011	-0.026	0.018
L5	-0.010	-0.014	-0.008	-0.023	0.016
L6	-0.005	-0.012	-0.001	-0.025	0.031
L7	0.005	-0.009	0.012	-0.035	0.053
L8	0.021	-0.007	-0.001	0.001	0.038
L9	0.024	0.034	-0.007	-0.023	0.056
L10	0.040	0.043	0.010	-0.023	0.071
L11	0.062	0.045	-0.009	0.001	0.109
L12	0.075	0.060	0.000	-0.004	0.095
L13	0.074	0.073	0.013	-0.016	0.119
L14	0.075	0.071	0.013	-0.007	0.111
L14A	0.076	0.072	0.009	-0.030	0.102
U1	0.067	0.046	-0.014	0.001	0.095
U2	0.053	0.035	-0.011	-0.015	0.064
U3	0.037	0.032	-0.010	-0.023	0.041
U4	0.013	-0.000	-0.004	-0.021	0.049
U5	-0.028	-0.075	-0.025	-0.023	0.025
U6	-0.069	-0.092	-0.028	-0.020	0.021
U7	-0.069	-0.091	-0.025	-0.023	-0.009
U8	-0.016	-0.016	-0.016	-0.016	-0.016
U8A	-0.016	-0.016	-0.016	-0.016	-0.016

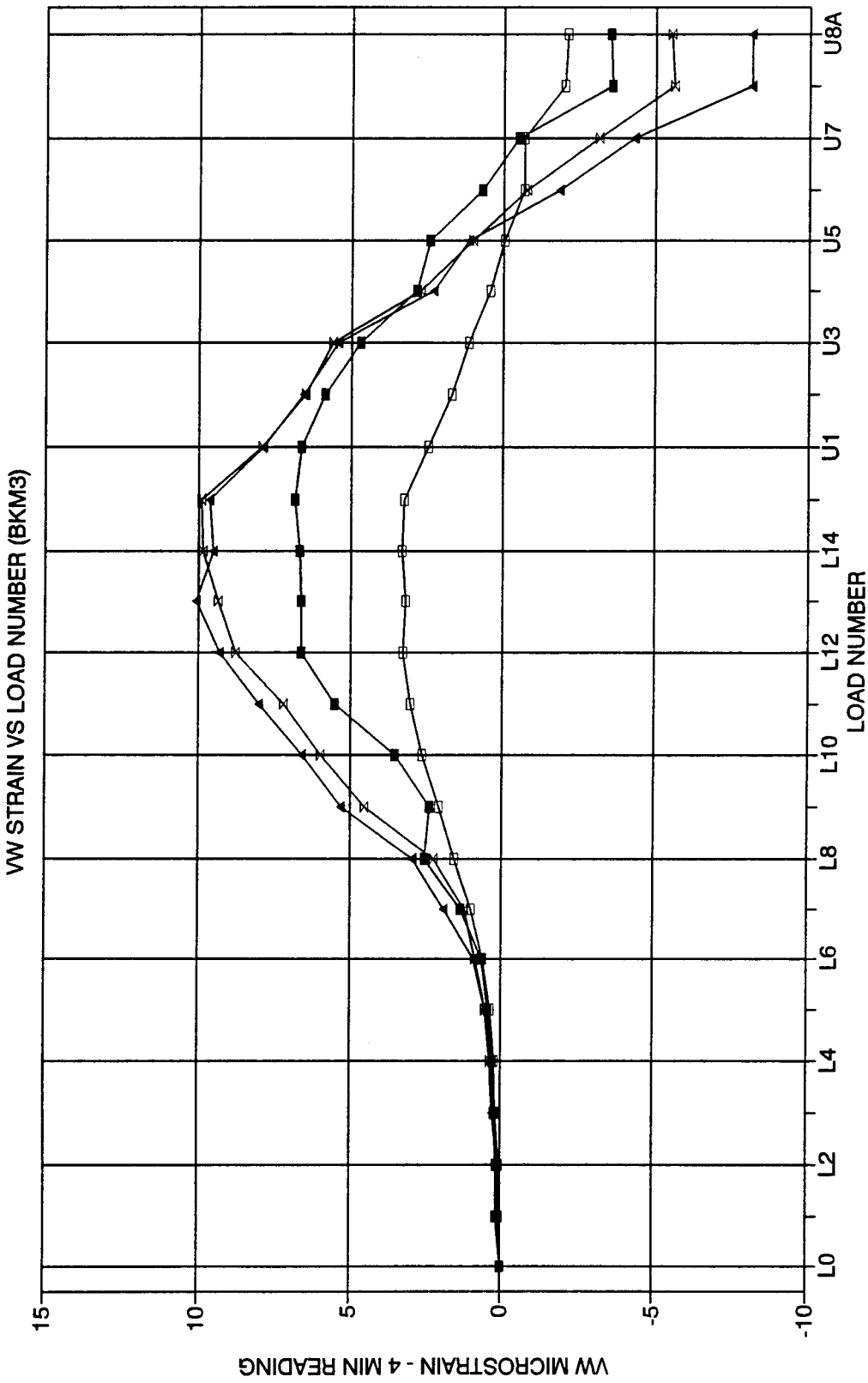

Figure F.47 Strain at Pile Top: Buckman Load Test 3

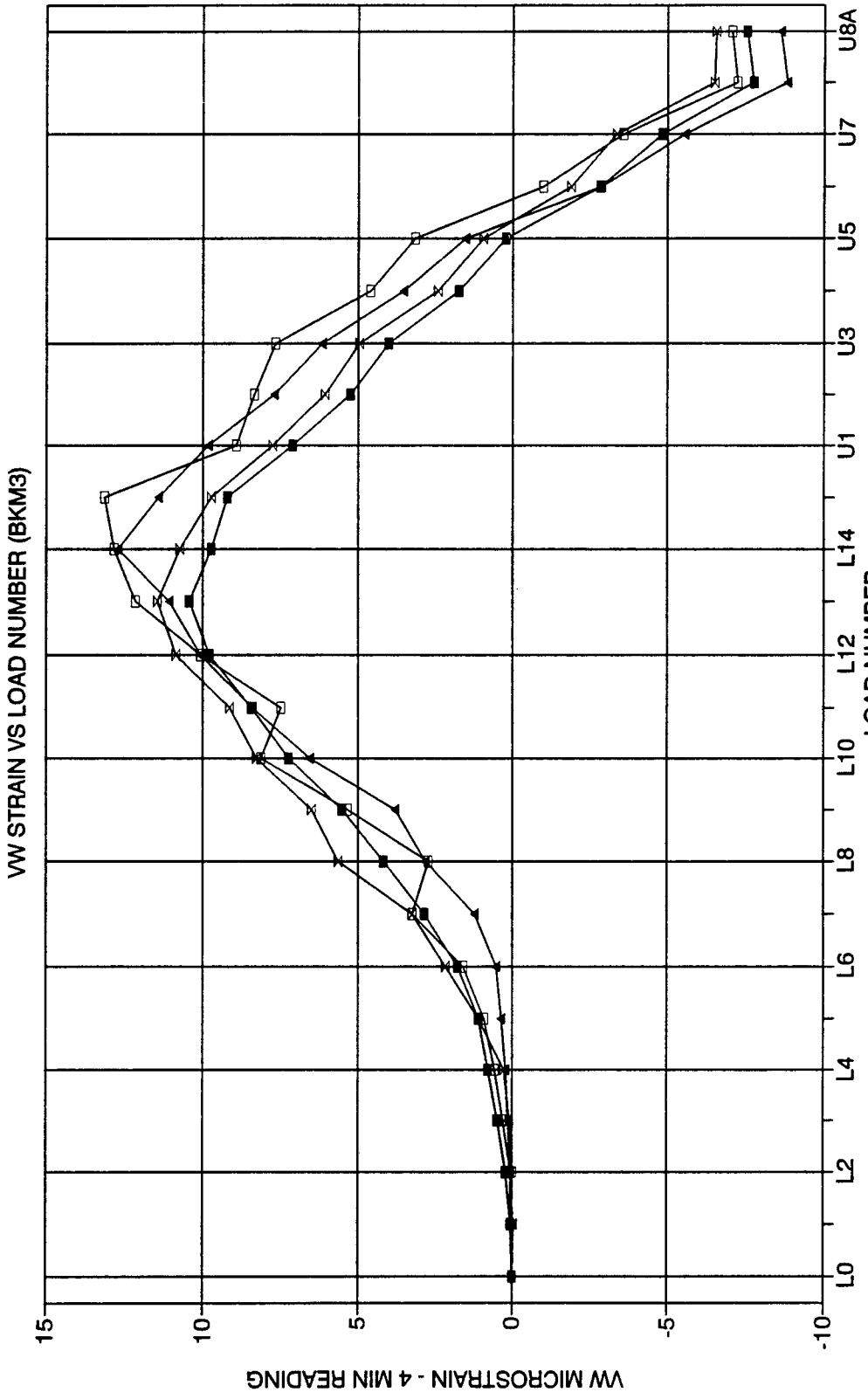

Figure F.48 Strain at Pile Middle: Buckman Load Test 3

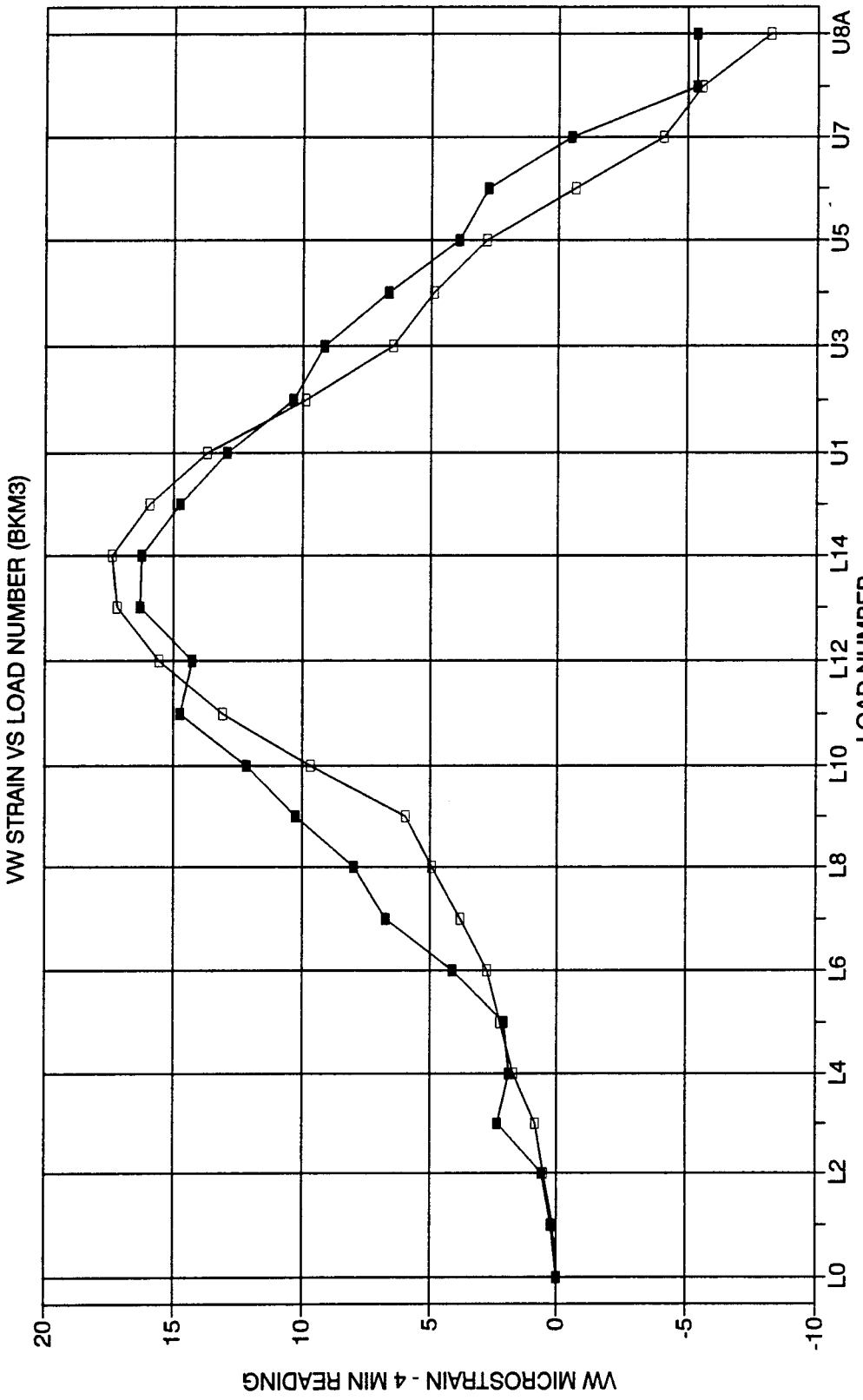

Figure F.49 Strain at Pile Bottom: Buckman Load Test 3

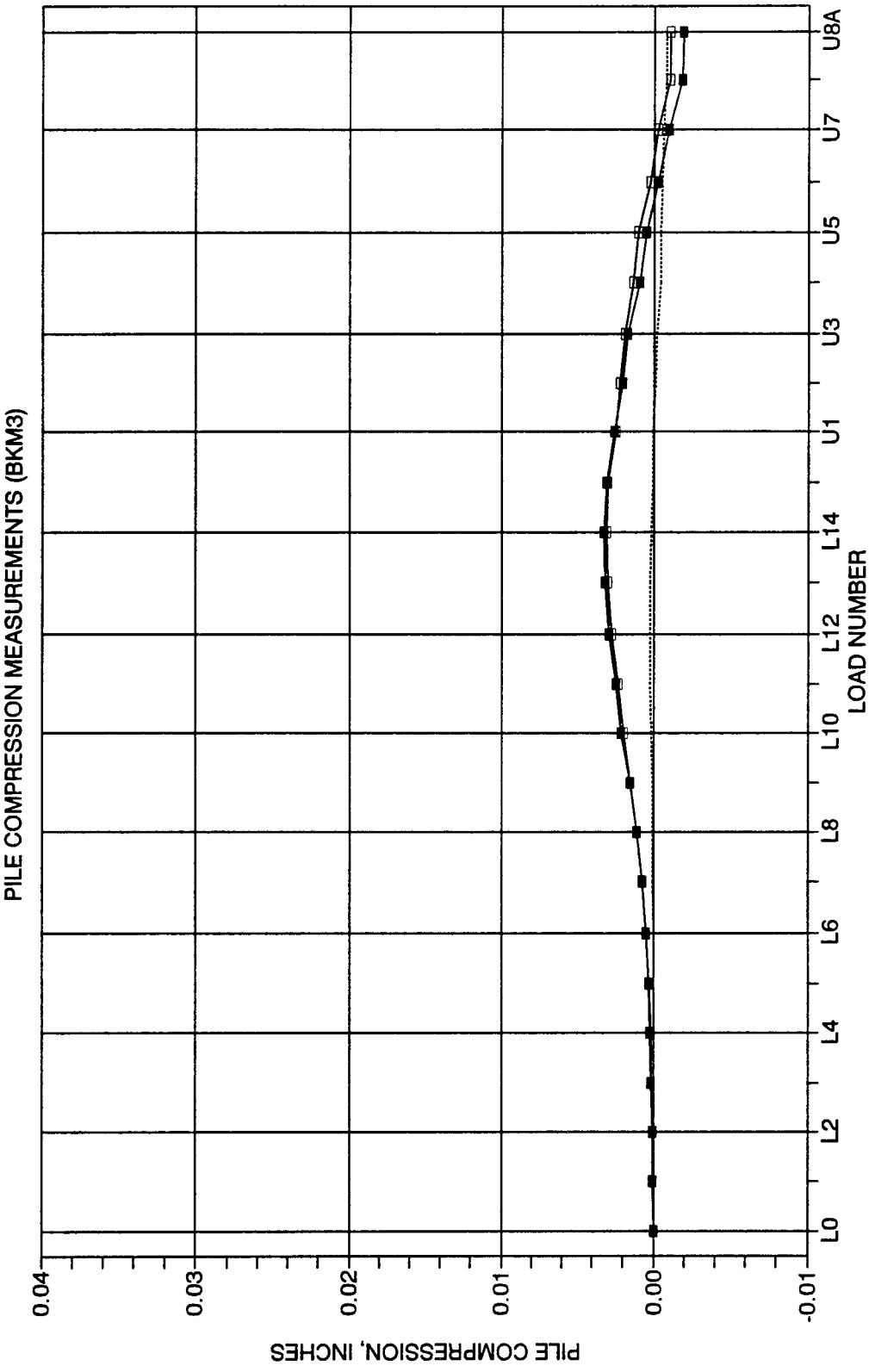

Figure F.50 Pile Compression Measurements: Buckman Load Test 3

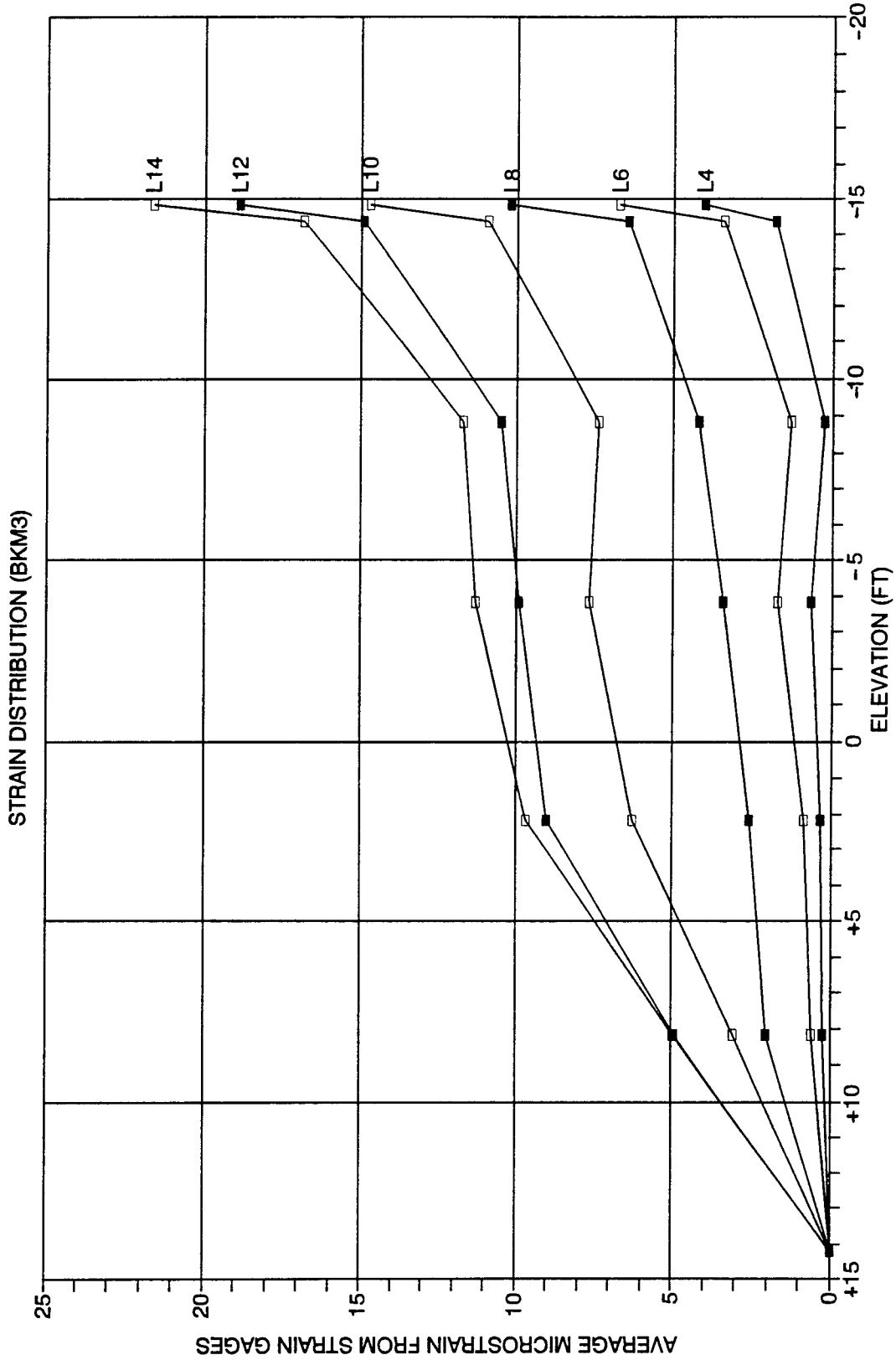

Figure F.51 Pile Strain Distribution: Buckman Load Test 3

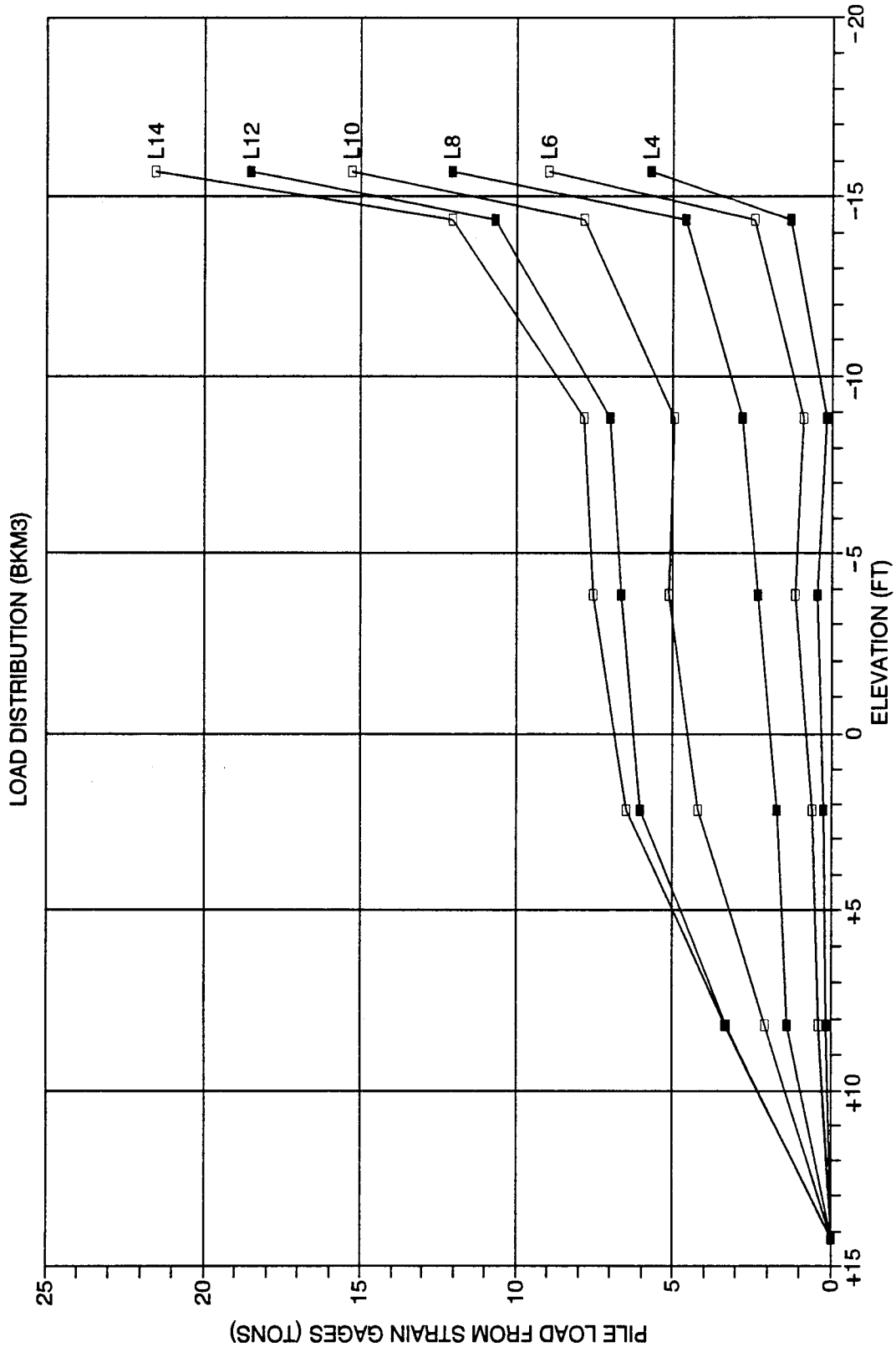

Figure F.52 Pile Load Distribution: Buckman Load Test 3

Table F.12 Strain Analyses: Buckman Load Test 4

VIBRATING WIRE INSTRUMENT READINGS - STRAIN

BKM 4 LOAD NUMBER	TIME	VW STRN FREQ^2 KHZ^2 43	VW STRN FREQ^2 KHZ^2 44	VW STRN FREQ^2 KHZ^2 55	VW STRN FREQ^2 KHZ^2 56	VW STRN FREQ^2 KHZ^2 57	VW STRN FREQ^2 KHZ^2 58	VW STRN FREQ^2 KHZ^2 59	VW STRN FREQ^2 KHZ^2 60	VW STRN FREQ^2 KHZ^2 61	VW STRN FREQ KHZ^2 62
L0	11:39:45	0.70090	0.73310	0.75645	0.77022	0.70891	0.68652	0.75250	0.73614	0.88032	0.89158
L0	13:02:45	0.70093	0.73306	0.75653	0.77022	0.70902	0.68657	0.75252	0.73613	0.88036	0.89178
L1	13:05:25	0.70081	0.73303	0.75618	0.77011	0.70858	0.68610	0.75244	0.73562	0.88020	0.89047
L1	13:05:59	0.70082	0.73302	0.75619	0.77008	0.70857	0.68613	0.75245	0.73563	0.88020	0.89049
L1	13:06:53	0.70082	0.73300	0.75619	0.77010	0.70858	0.68612	0.75245	0.73564	0.88020	0.89053
L1	13:08:54	0.70081	0.73303	0.75619	0.77010	0.70860	0.68616	0.75245	0.73565	0.88022	0.89046
L2	13:10:42	0.70074	0.73303	0.75606	0.76997	0.70845	0.68602	0.75239	0.73537	0.88012	0.89074
L2	13:11:12	0.70073	0.73301	0.75605	0.76995	0.70842	0.68601	0.75238	0.73534	0.88011	0.89076
L2	13:12:17	0.70074	0.73303	0.75605	0.76996	0.70842	0.68599	0.75238	0.73536	0.88012	0.89075
L2	13:14:26	0.70074	0.73303	0.75606	0.76996	0.70843	0.68600	0.75238	0.73536	0.88013	0.89074
L3	13:16:10	0.70056	0.73289	0.75575	0.76977	0.70857	0.68585	0.75205	0.73496	0.87970	0.89014
L3	13:16:41	0.70056	0.73288	0.75575	0.76981	0.70870	0.68585	0.75205	0.73495	0.87973	0.89013
L3	13:17:40	0.70055	0.73285	0.75572	0.76979	0.70868	0.68583	0.75204	0.73493	0.87969	0.89013
L3	13:19:40	0.70055	0.73287	0.75574	0.76980	0.70869	0.68584	0.75204	0.73493	0.87971	0.89013
L4	13:21:09	0.70039	0.73283	0.75534	0.76939	0.70802	0.68551	0.75156	0.73443	0.87862	0.88931
L4	13:21:40	0.70039	0.73283	0.75534	0.76939	0.70808	0.68551	0.75158	0.73441	0.87862	0.88932
L4	13:22:38	0.70039	0.73284	0.75533	0.76938	0.70803	0.68550	0.75158	0.73440	0.87859	0.88932
L4	13:24:40	0.70039	0.73287	0.75530	0.76937	0.70800	0.68548	0.75156	0.73435	0.87855	0.88930
L5	13:26:13	0.70029	0.73269	0.75479	0.76906	0.70744	0.68497	0.75116	0.73412	0.87823	0.88873
L5	13:26:50	0.70027	0.73267	0.75478	0.76904	0.70743	0.68496	0.75115	0.73410	0.87823	0.88867
L5	13:27:45	0.70027	0.73265	0.75477	0.76904	0.70741	0.68496	0.75114	0.73409	0.87822	0.88865
L5	13:29:44	0.70027	0.73264	0.75476	0.76902	0.70742	0.68494	0.75114	0.73408	0.87822	0.88866
L6	13:31:39	0.70016	0.73226	0.75447	0.76865	0.70677	0.68439	0.75051	0.73356	0.87763	0.88848
L6	13:32:19	0.70017	0.73225	0.75446	0.76864	0.70675	0.68443	0.75050	0.73356	0.87766	0.88838
L6	13:33:10	0.70017	0.73225	0.75447	0.76864	0.70676	0.68443	0.75051	0.73355	0.87764	0.88846
L6	13:35:11	0.70008	0.73222	0.75446	0.76862	0.70671	0.68445	0.75049	0.73353	0.87766	0.88841
L7	13:36:46	0.70009	0.73200	0.75396	0.76826	0.70673	0.68402	0.75004	0.73310	0.87704	0.88804
L7	13:37:16	0.70008	0.73198	0.75396	0.76825	0.70671	0.68403	0.75004	0.73308	0.87700	0.88799
L7	13:38:14	0.70008	0.73194	0.75393	0.76824	0.70668	0.68402	0.74998	0.73307	0.87698	0.88801
L7	13:40:16	0.70009	0.73197	0.75391	0.76824	0.70665	0.68400	0.74996	0.73304	0.87700	0.88798
L8	13:41:36	0.69999	0.73167	0.75352	0.76788	0.70588	0.68359	0.74950	0.73254	0.87555	0.88699
L8	13:42:04	0.69999	0.73167	0.75355	0.76786	0.70586	0.68358	0.74947	0.73253	0.87559	0.88701
L8	13:43:04	0.70003	0.73166	0.75357	0.76786	0.70584	0.68358	0.74947	0.73254	0.87557	0.88699
L8	13:45:04	0.70005	0.73163	0.75354	0.76785	0.70584	0.68358	0.74946	0.73253	0.87552	0.88701
L9	13:46:40	0.69999	0.73153	0.75303	0.76749	0.70528	0.68320	0.74895	0.73210	0.87617	0.88659
L9	13:47:12	0.70003	0.73153	0.75303	0.76749	0.70524	0.68317	0.74892	0.73206	0.87608	0.88665
L9	13:48:12	0.69992	0.73153	0.75299	0.76746	0.70525	0.68315	0.74888	0.73204	0.87604	0.88666
L9	13:50:11	0.70002	0.73154	0.75297	0.76745	0.70521	0.68315	0.74887	0.73204	0.87601	0.88665
L10	13:51:36	0.69994	0.73116	0.75250	0.76703	0.70528	0.68274	0.74848	0.73160	0.87518	0.88600
L10	13:52:09	0.69998	0.73121	0.75249	0.76704	0.70527	0.68275	0.74848	0.73158	0.87516	0.88598
L10	13:53:07	0.69998	0.73116	0.75248	0.76701	0.70516	0.68272	0.74846	0.73158	0.87514	0.88595
L10	13:55:06	0.69998	0.73119	0.75247	0.76701	0.70513	0.68273	0.74845	0.73158	0.87514	0.88594
L11	13:56:36	0.70002	0.73122	0.75203	0.76667	0.70438	0.68226	0.74787	0.73112	0.87481	0.88555

Table F.12 continued

VIBRATING WIRE INSTRUMENT READINGS - STRAIN

BKM 4 LOAD NUMBER	TIME	VW STRN FREQ^2 KHZ^2 43	VW STRN FREQ^2 KHZ^2 44	VW STRN FREQ^2 KHZ^2 55	VW STRN FREQ^2 KHZ^2 56	VW STRN FREQ^2 KHZ^2 57	VW STRN FREQ^2 KHZ^2 58	VW STRN FREQ^2 KHZ^2 59	VW STRN FREQ^2 KHZ^2 60	VW STRN FREQ^2 KHZ^2 61	VW STRN FREQ KHZ^2 62
L11	13:57:08	0.70002	0.73116	0.75199	0.76662	0.70435	0.68224	0.74785	0.73110	0.87473	0.88552
L11	13:58:06	0.69994	0.73116	0.75197	0.76661	0.70431	0.68222	0.74782	0.73109	0.87474	0.88544
L11	14:00:08	0.69998	0.73112	0.75195	0.76659	0.70427	0.68224	0.74780	0.73110	0.87480	0.88545
L12	14:01:37	0.70002	0.73086	0.75163	0.76636	0.70401	0.68176	0.74734	0.73068	0.87449	0.88491
L12	14:02:07	0.69997	0.73085	0.75164	0.76634	0.70397	0.68182	0.74731	0.73067	0.87448	0.88484
L12	14:03:09	0.70004	0.73082	0.75164	0.76632	0.70391	0.68181	0.74728	0.73065	0.87446	0.88487
L12	14:05:06	0.70002	0.73081	0.75164	0.76631	0.70387	0.68181	0.74726	0.73066	0.87444	0.88483
L13	14:06:54	0.70000	0.73071	0.75163	0.76618	0.70373	0.68178	0.74702	0.73053	0.87354	0.88431
L13	14:07:24	0.69994	0.73073	0.75161	0.76616	0.70384	0.68180	0.74698	0.73053	0.87344	0.88425
L13	14:08:24	0.69998	0.73072	0.75160	0.76618	0.70380	0.68177	0.74695	0.73055	0.87342	0.88422
L13	14:10:28	0.70004	0.73072	0.75161	0.76615	0.70385	0.68178	0.74694	0.73058	0.87345	0.88428
L14	14:12:15	0.70000	0.73071	0.75179	0.76621	0.70377	0.68176	0.74681	0.73062	0.87287	0.88412
L14	14:12:51	0.70002	0.73071	0.75190	0.76622	0.70369	0.68173	0.74674	0.73065	0.87281	0.88409
L14	14:13:46	0.69999	0.73070	0.75199	0.76618	0.70361	0.68195	0.74661	0.73071	0.87278	0.88420
L14	14:15:45	0.70003	0.73065	0.75178	0.76614	0.70318	0.68248	0.74630	0.73104	0.87280	0.88403
L14A	14:17:44	0.70003	0.73057	0.75201	0.76604	0.70254	0.68265	0.74602	0.73107	0.87300	0.88420
L14B	14:18:16	0.70002	0.73059	0.75197	0.76607	0.70267	0.68275	0.74624	0.73151	0.87348	0.88460
L14C	14:22:15	0.70000	0.73062	0.75189	0.76612	0.70280	0.68262	0.74637	0.73139	0.87360	0.88462
U1	14:27:22	0.70035	0.73118	0.75242	0.76716	0.70396	0.68378	0.74764	0.73257	0.87505	0.88654
U2	14:31:41	0.70099	0.73167	0.75396	0.76856	0.70568	0.68539	0.74950	0.73413	0.87708	0.88839
U3	14:36:13	0.70119	0.73201	0.75470	0.76926	0.70697	0.68591	0.75038	0.73465	0.87819	0.88897
U4	14:41:07	0.70114	0.73286	0.75598	0.77024	0.70800	0.68702	0.75166	0.73564	0.87979	0.89042
U5	14:45:51	0.70134	0.73304	0.75664	0.77097	0.70886	0.68762	0.75288	0.73620	0.88095	0.89094
U6	14:49:02	0.70177	0.73370	0.75797	0.77182	0.70988	0.68849	0.75398	0.73724	0.88197	0.89221
U6A	14:54:30	0.70176	0.73371	0.75802	0.77181	0.70989	0.68849	0.75394	0.73723	0.88181	0.89227
U7	15:41:38	0.70176	0.73374	0.75788	0.77181	0.70980	0.68851	0.75383	0.73720	0.88165	0.89223
U7	15:58:12	0.70176	0.73368	0.75790	0.77177	0.70977	0.68847	0.75384	0.73718	0.88163	0.89226
U7	16:14:40	0.70176	0.73371	0.75789	0.77182	0.70975	0.68849	0.75383	0.73719	0.88162	0.89224
U7	16:16:01	0.70175	0.73371	0.75790	0.77178	0.70978	0.68845	0.75383	0.73718	0.88163	0.89224
U7	16:21:52	0.70174	0.73373	0.75788	0.77180	0.70979	0.68849	0.75383	0.73719	0.88162	0.89225

Table F.12 continued

VIBRATING WIRE INSTRUMENT READINGS - TEMPERATURE

BKM 4 LOAD NUMBER	TIME	VW STRN TEMP DEG C 43	VW STRN TEMP DEG C 44	VW STRN TEMP DEG C 55	VW STRN TEMP DEG C 56	VW STRN TEMP DEG C 57	VW STRN TEMP DEG C 58	VW STRN TEMP DEG C 59	VW STRN TEMP DEG C 60	VW STRN TEMP DEG C 61	VW STRN TEMP DEG C 62
L0	11:39:45	23.149	23.212	21.638	21.544	21.482	20.834	21.700	21.607	22.075	21.700
L0	13:02:45	23.180	23.244	21.638	21.576	21.513	20.864	21.700	21.638	22.075	21.700
L1	13:05:25	23.180	23.244	21.638	21.544	21.482	20.834	21.700	21.638	22.075	21.700
L1	13:05:59	23.180	23.244	21.638	21.576	21.482	20.834	21.700	21.638	22.075	21.731
L1	13:06:53	23.180	23.244	21.638	21.544	21.482	20.864	21.731	21.669	22.075	21.700
L1	13:08:54	23.180	23.244	21.638	21.576	21.482	20.834	21.700	21.638	22.075	21.700
L2	13:10:42	23.180	23.244	21.638	21.576	21.482	20.834	21.700	21.638	22.075	21.700
L2	13:11:12	23.180	23.244	21.669	21.544	21.513	20.834	21.700	21.638	22.075	21.700
L2	13:12:17	23.178	23.242	21.636	21.574	21.480	20.832	21.698	21.636	22.073	21.698
L2	13:14:26	23.178	23.242	21.636	21.574	21.479	20.830	21.696	21.634	22.071	21.696
L3	13:16:10	23.177	23.240	21.634	21.572	21.479	20.830	21.727	21.634	22.071	21.696
L3	13:16:41	23.177	23.240	21.665	21.572	21.479	20.830	21.696	21.665	22.102	21.696
L3	13:17:40	23.177	23.241	21.635	21.573	21.479	20.831	21.697	21.635	22.072	21.728
L3	13:19:40	23.177	23.241	21.635	21.573	21.479	20.831	21.697	21.635	22.103	21.697
L4	13:21:09	23.178	23.242	21.635	21.573	21.480	20.831	21.698	21.635	22.104	21.729
L4	13:21:40	23.178	23.242	21.635	21.573	21.480	20.831	21.698	21.635	22.072	21.729
L4	13:22:38	23.178	23.242	21.635	21.573	21.480	20.831	21.698	21.666	22.072	21.698
L4	13:24:40	23.179	23.274	21.636	21.574	21.480	20.832	21.698	21.636	22.104	21.729
L5	13:26:13	23.179	23.242	21.634	21.572	21.479	20.830	21.728	21.634	22.102	21.728
L5	13:26:50	23.177	23.272	21.634	21.572	21.479	20.830	21.696	21.665	22.071	21.696
L5	13:27:45	23.177	23.272	21.634	21.572	21.479	20.830	21.728	21.665	22.102	21.696
L5	13:29:44	23.175	23.239	21.633	21.571	21.477	20.829	21.726	21.633	22.101	21.726
L6	13:31:39	23.175	23.271	21.633	21.571	21.508	20.829	21.726	21.633	22.101	21.695
L6	13:32:19	23.174	23.238	21.632	21.570	21.507	20.828	21.725	21.632	22.100	21.725
L6	13:33:10	23.174	23.238	21.632	21.570	21.476	20.828	21.725	21.632	22.100	21.725
L6	13:35:11	23.173	23.237	21.631	21.569	21.507	20.827	21.724	21.631	22.068	21.724
L7	13:36:46	23.173	23.269	21.631	21.569	21.476	20.858	21.724	21.631	22.099	21.724
L7	13:37:16	23.173	23.237	21.631	21.569	21.507	20.827	21.724	21.631	22.099	21.724
L7	13:38:14	23.173	23.236	21.630	21.568	21.475	20.826	21.724	21.630	22.098	21.724
L7	13:40:16	23.173	23.236	21.630	21.568	21.475	20.826	21.724	21.630	22.067	21.724
L8	13:41:36	23.172	23.236	21.630	21.567	21.505	20.826	21.723	21.630	22.129	21.723
L8	13:42:04	23.172	23.236	21.630	21.567	21.537	20.826	21.723	21.630	22.098	21.754
L8	13:43:04	23.172	23.236	21.630	21.567	21.505	20.826	21.723	21.630	22.098	21.723
L8	13:45:04	23.169	23.233	21.658	21.565	21.503	20.823	21.752	21.627	22.127	21.721
L9	13:46:40	23.169	23.233	21.627	21.565	21.503	20.823	21.752	21.627	22.095	21.721
L9	13:47:12	23.170	23.233	21.627	21.565	21.503	20.823	21.752	21.627	22.127	21.721
L9	13:48:12	23.170	23.233	21.627	21.565	21.503	20.823	21.721	21.627	22.095	21.752
L9	13:50:11	23.167	23.231	21.625	21.563	21.501	20.821	21.750	21.625	22.125	21.750
L10	13:51:36	23.167	23.231	21.625	21.563	21.501	20.821	21.719	21.625	22.093	21.719
L10	13:52:09	23.167	23.231	21.625	21.563	21.501	20.821	21.719	21.625	22.093	21.719
L10	13:53:07	23.166	23.261	21.624	21.561	21.499	20.820	21.717	21.624	22.092	21.748
L10	13:55:06	23.166	23.230	21.624	21.561	21.499	20.820	21.748	21.624	22.092	21.717
L11	13:56:36	23.164	23.228	21.622	21.560	21.498	20.819	21.747	21.622	22.090	21.747

Table F.12 continued

VIBRATING WIRE INSTRUMENT READINGS - TEMPERATURE

BKM 4 LOAD NUMBER	TIME	VW STRN TEMP DEG C 43	VW STRN TEMP DEG C 44	VW STRN TEMP DEG C 55	VW STRN TEMP DEG C 56	VW STRN TEMP DEG C 57	VW STRN TEMP DEG C 58	VW STRN TEMP DEG C 59	VW STRN TEMP DEG C 60	VW STRN TEMP DEG C 61	VW STRN TEMP DEG C 62
L11	13:57:08	23.164	23.228	21.653	21.560	21.498	20.819	21.716	21.622	22.090	21.716
L11	13:58:06	23.164	23.260	21.653	21.560	21.529	20.819	21.716	21.622	22.090	21.716
L11	14:00:08	23.163	23.227	21.621	21.559	21.497	20.818	21.715	21.621	22.090	21.715
L12	14:01:37	23.162	23.226	21.621	21.589	21.496	20.817	21.714	21.652	22.120	21.714
L12	14:02:07	23.162	23.226	21.621	21.558	21.527	20.817	21.714	21.652	22.089	21.745
L12	14:03:09	23.162	23.226	21.652	21.558	21.496	20.817	21.714	21.621	22.120	21.745
L12	14:05:06	23.194	23.225	21.651	21.558	21.496	20.847	21.713	21.620	22.088	21.744
L13	14:06:54	23.162	23.225	21.651	21.589	21.496	20.816	21.713	21.620	22.119	21.744
L13	14:07:24	23.193	23.225	21.650	21.557	21.495	20.846	21.744	21.619	22.119	21.744
L13	14:08:24	23.193	23.257	21.650	21.557	21.495	20.816	21.744	21.619	22.087	21.713
L13	14:10:28	23.193	23.224	21.650	21.557	21.495	20.846	21.712	21.619	22.087	21.712
L14	14:12:15	23.161	23.224	21.681	21.557	21.526	20.815	21.743	21.650	22.118	21.743
L14	14:12:51	23.193	23.224	21.650	21.557	21.495	20.815	21.743	21.619	22.087	21.712
L14	14:13:46	23.192	23.256	21.650	21.557	21.494	20.876	21.743	21.619	22.087	21.743
L14	14:15:45	23.192	23.256	21.650	21.557	21.494	20.846	21.743	21.650	22.087	21.743
L14A	14:17:44	23.192	23.224	21.649	21.556	21.525	20.815	21.712	21.618	22.118	21.712
L14B	14:18:16	23.192	23.224	21.649	21.556	21.525	20.815	21.712	21.649	22.086	21.712
L14C	14:22:15	23.192	23.223	21.649	21.556	21.525	20.814	21.742	21.618	22.086	21.742
U1	14:27:22	23.191	23.223	21.649	21.556	21.494	20.845	21.711	21.618	22.086	21.711
U2	14:31:41	23.191	23.223	21.649	21.587	21.524	20.845	21.711	21.649	22.117	21.742
U3	14:36:13	23.191	23.223	21.649	21.555	21.524	20.814	21.711	21.649	22.117	21.711
U4	14:41:07	23.191	23.223	21.649	21.555	21.524	20.814	21.711	21.617	22.117	21.742
U5	14:45:51	23.191	23.223	21.648	21.555	21.493	20.814	21.711	21.617	22.117	21.742
U6	14:49:02	23.191	23.255	21.617	21.586	21.493	20.844	21.711	21.617	22.117	21.742
U6A	14:54:30	23.191	23.255	21.648	21.555	21.493	20.844	21.711	21.617	22.117	21.711
U7	15:41:38	23.191	23.255	21.648	21.555	21.493	20.844	21.742	21.648	22.085	21.742
U7	15:58:12	23.191	23.255	21.648	21.555	21.524	20.844	21.742	21.617	22.117	21.742
U7	16:14:40	23.191	23.287	21.679	21.586	21.493	20.814	21.711	21.617	22.117	21.711
U7	16:16:01	23.191	23.255	21.648	21.555	21.493	20.844	21.711	21.617	22.085	21.742
U7	16:21:52	23.191	23.255	21.648	21.555	21.524	20.844	21.711	21.617	22.085	21.711

Table F.12 continued

VIBRATING WIRE CALCULATED STRAIN INCREMENTS

BKM 4 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 43	VW STRN MICRO STRAIN 44	VW STRN MICRO STRAIN 55	VW STRN MICRO STRAIN 56	VW STRN MICRO STRAIN 57	VW STRN MICRO STRAIN 58	VW STRN MICRO STRAIN 59	VW STRN MICRO STRAIN 60	VW STRN MICRO STRAIN 61	VW STRN MICRO STRAIN 62
L0	11:39:45	0.1	-0.1	0.3	0.0	0.4	0.2	0.1	0.0	0.1	0.7
L0	13:02:45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
L1	13:05:25	0.4	0.1	1.2	0.4	1.5	1.6	0.3	1.7	0.5	4.3
L1	13:05:59	0.4	0.1	1.1	0.5	1.5	1.5	0.2	1.7	0.5	4.2
L1	13:06:53	0.4	0.2	1.1	0.4	1.5	1.5	0.2	1.6	0.5	4.1
L1	13:08:54	0.4	0.1	1.1	0.4	1.4	1.4	0.2	1.6	0.5	4.4
L2	13:10:42	0.6	0.1	1.6	0.8	1.9	1.9	0.4	2.5	0.8	3.4
L2	13:11:12	0.7	0.2	1.5	0.9	2.0	1.9	0.5	2.6	0.8	3.4
L2	13:12:17	0.6	0.1	1.6	0.9	2.0	2.0	0.5	2.5	0.8	3.4
L2	13:14:26	0.6	0.1	1.6	0.9	2.0	1.9	0.5	2.5	0.8	3.4
L3	13:16:10	1.2	0.6	2.6	1.5	1.5	2.4	1.5	3.9	2.2	5.4
L3	13:16:41	1.2	0.6	2.5	1.4	1.1	2.4	1.6	3.9	2.0	5.5
L3	13:17:40	1.3	0.7	2.7	1.4	1.2	2.5	1.6	4.0	2.2	5.4
L3	13:19:40	1.3	0.6	2.6	1.4	1.1	2.5	1.6	4.0	2.1	5.5
L4	13:21:09	1.8	0.8	3.9	2.7	3.3	3.5	3.2	5.6	5.7	8.1
L4	13:21:40	1.8	0.8	3.9	2.7	3.1	3.5	3.1	5.7	5.8	8.1
L4	13:22:38	1.8	0.7	4.0	2.8	3.3	3.6	3.1	5.7	5.9	8.1
L4	13:24:40	1.8	0.6	4.1	2.8	3.4	3.6	3.2	5.9	5.9	8.2
L5	13:26:13	2.1	1.2	5.8	3.8	5.3	5.3	4.5	6.6	7.0	10.0
L5	13:26:50	2.2	1.3	5.8	3.9	5.3	5.4	4.5	6.7	7.0	10.3
L5	13:27:45	2.2	1.3	5.8	3.9	5.4	5.4	4.5	6.7	7.0	10.3
L5	13:29:44	2.2	1.4	5.9	4.0	5.3	5.4	4.5	6.8	7.0	10.3
L6	13:31:39	2.6	2.6	6.8	5.2	7.4	7.2	6.6	8.5	9.0	10.9
L6	13:32:19	2.5	2.7	6.8	5.2	7.5	7.1	6.6	8.5	8.9	11.2
L6	13:33:10	2.5	2.7	6.8	5.2	7.5	7.1	6.6	8.5	9.0	10.9
L6	13:35:11	2.8	2.8	6.8	5.3	7.6	7.1	6.7	8.6	8.9	11.1
L7	13:36:46	2.8	3.5	8.5	6.5	7.6	8.4	8.2	10.0	10.9	12.3
L7	13:37:16	2.8	3.6	8.5	6.5	7.6	8.4	8.2	10.1	11.1	12.5
L7	13:38:14	2.8	3.7	8.6	6.6	7.8	8.5	8.4	10.1	11.1	12.4
L7	13:40:16	2.8	3.6	8.7	6.6	7.9	8.5	8.4	10.2	11.1	12.5
L8	13:41:36	3.1	4.6	10.0	7.7	10.4	9.9	9.9	11.9	15.8	15.8
L8	13:42:04	3.1	4.6	9.9	7.8	10.4	9.9	10.0	11.9	15.7	15.7
L8	13:43:04	3.0	4.6	9.8	7.8	10.5	9.9	10.0	11.9	15.8	15.8
L8	13:45:04	2.9	4.7	9.9	7.8	10.5	9.9	10.0	11.9	15.9	15.7
L9	13:46:40	3.1	5.1	11.6	9.0	12.4	11.2	11.7	13.3	13.8	17.1
L9	13:47:12	3.0	5.1	11.6	9.0	12.5	11.3	11.8	13.5	14.1	16.9
L9	13:48:12	3.4	5.1	11.7	9.1	12.5	11.4	12.0	13.5	14.2	16.8
L9	13:50:11	3.0	5.0	11.8	9.2	12.6	11.4	12.0	13.5	14.3	16.9
L10	13:51:36	3.3	6.3	13.3	10.6	12.4	12.7	13.3	15.0	17.1	19.1
L10	13:52:09	3.2	6.1	13.4	10.5	12.4	12.7	13.3	15.1	17.2	19.1
L10	13:53:07	3.2	6.3	13.4	10.6	12.8	12.8	13.4	15.1	17.2	19.2
L10	13:55:06	3.2	6.2	13.4	10.6	12.9	12.7	13.4	15.1	17.2	19.3
L11	13:56:36	3.0	6.1	14.9	11.8	15.4	14.3	15.3	16.6	18.3	20.5

Table F.12 continued

VIBRATING WIRE CALCULATED STRAIN INCREMENTS

BKM 4 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 43	VW STRN MICRO STRAIN 44	VW STRN MICRO STRAIN 55	VW STRN MICRO STRAIN 56	VW STRN MICRO STRAIN 57	VW STRN MICRO STRAIN 58	VW STRN MICRO STRAIN 59	VW STRN MICRO STRAIN 60	VW STRN MICRO STRAIN 61	VW STRN MICRO STRAIN 62
L11	13:57:08	3.0	6.3	15.0	11.9	15.4	14.4	15.4	16.6	18.6	20.7
L11	13:58:06	3.3	6.3	15.0	11.9	15.5	14.4	15.5	16.7	18.5	20.9
L11	14:00:08	3.2	6.4	15.2	12.0	15.7	14.4	15.6	16.6	18.4	20.9
L12	14:01:37	3.0	7.3	16.2	12.7	16.6	16.0	17.1	18.0	19.3	22.7
L12	14:02:07	3.2	7.3	16.2	12.8	16.7	15.8	17.2	18.0	19.4	22.9
L12	14:03:09	3.0	7.4	16.1	12.9	16.9	15.8	17.3	18.1	19.4	22.8
L12	14:05:06	3.0	7.5	16.1	12.9	17.0	15.7	17.4	18.1	19.5	22.9
L13	14:06:54	3.1	7.8	16.2	13.3	17.5	15.9	18.2	18.5	22.5	24.6
L13	14:07:24	3.3	7.7	16.2	13.4	17.1	15.8	18.2	18.5	22.8	24.8
L13	14:08:24	3.1	7.7	16.3	13.4	17.3	15.9	18.3	18.5	22.9	25.0
L13	14:10:28	2.9	7.8	16.2	13.5	17.1	15.8	18.4	18.4	22.8	24.8
L14	14:12:15	3.1	7.8	15.6	13.3	17.3	16.0	18.8	18.2	24.7	25.3
L14	14:12:51	3.0	7.8	15.3	13.2	17.6	16.1	19.0	18.1	24.9	25.4
L14	14:13:46	3.1	7.8	15.0	13.4	17.9	15.2	19.5	17.9	25.0	25.0
L14	14:15:45	3.0	7.9	15.7	13.5	19.3	13.5	20.5	16.8	25.0	25.6
L14A	14:17:44	3.0	8.3	14.9	13.8	21.4	13.0	21.5	16.7	24.3	25.0
L14B	14:18:16	3.0	8.2	15.1	13.7	21.0	12.7	20.7	15.3	22.7	23.7
L14C	14:22:15	3.1	8.1	15.3	13.6	20.5	13.1	20.3	15.7	22.3	23.6
U1	14:27:22	1.9	6.2	13.6	10.1	16.7	9.2	16.1	11.8	17.5	17.3
U2	14:31:41	-0.2	4.6	8.5	5.5	11.0	3.9	10.0	6.6	10.8	11.1
U3	14:36:13	-0.9	3.5	6.0	3.2	6.8	2.2	7.1	4.9	7.1	9.3
U4	14:41:07	-0.7	0.7	1.8	-0.0	3.4	-1.4	2.8	1.6	1.8	4.4
U5	14:45:51	-1.4	0.1	-0.4	-2.5	0.6	-3.4	-1.2	-0.2	-2.0	2.7
U6	14:49:02	-2.8	-2.1	-4.7	-5.3	-2.8	-6.3	-4.8	-3.6	-5.4	-1.5
U6A	14:54:30	-2.8	-2.2	-4.9	-5.2	-2.8	-6.3	-4.7	-3.6	-4.8	-1.6
U7	15:41:38	-2.8	-2.3	-4.5	-5.2	-2.6	-6.4	-4.4	-3.5	-4.3	-1.5
U7	15:58:12	-2.8	-2.1	-4.5	-5.1	-2.5	-6.3	-4.4	-3.4	-4.3	-1.6
U7	16:14:40	-2.8	-2.2	-4.5	-5.3	-2.4	-6.3	-4.3	-3.5	-4.2	-1.5
U7	16:16:01	-2.7	-2.2	-4.5	-5.1	-2.5	-6.2	-4.3	-3.4	-4.2	-1.6
U7	16:21:52	-2.7	-2.2	-4.5	-5.2	-2.6	-6.3	-4.3	-3.5	-4.2	-1.6

Table F.12 continued

VIBRATING WIRE CALCULATED STRAIN (4 MINUTE READINGS)

BKM 4 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 43	VW STRN MICRO STRAIN 44	VW STRN MICRO STRAIN 55	VW STRN MICRO STRAIN 56	VW STRN MICRO STRAIN 57	VW STRN MICRO STRAIN 58	VW STRN MICRO STRAIN 59	VW STRN MICRO STRAIN 60	VW STRN MICRO STRAIN 61	VW STRN MICRO STRAIN 62
L0	13:02:45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
L1	13:08:54	0.4	0.1	1.1	0.4	1.4	1.4	0.2	1.6	0.5	4.4
L2	13:14:26	0.6	0.1	1.6	0.9	2.0	1.9	0.5	2.5	0.8	3.4
L3	13:19:40	1.3	0.6	2.6	1.4	1.1	2.5	1.6	4.0	2.1	5.5
L4	13:24:40	1.8	0.6	4.1	2.8	3.4	3.6	3.2	5.9	5.9	8.2
L5	13:29:44	2.2	1.4	5.9	4.0	5.3	5.4	4.5	6.8	7.0	10.3
L6	13:35:11	2.8	2.8	6.8	5.3	7.6	7.1	6.7	8.6	8.9	11.1
L7	13:40:16	2.8	3.6	8.7	6.6	7.9	8.5	8.4	10.2	11.1	12.5
L8	13:45:04	2.9	4.7	9.9	7.8	10.5	9.9	10.0	11.9	15.9	15.7
L9	13:50:11	3.0	5.0	11.8	9.2	12.6	11.4	12.0	13.5	14.3	16.9
L10	13:55:06	3.2	6.2	13.4	10.6	12.9	12.7	13.4	15.1	17.2	19.3
L11	14:00:08	3.2	6.4	15.2	12.0	15.7	14.4	15.6	16.6	18.4	20.9
L12	14:05:06	3.0	7.5	16.1	12.9	17.0	15.7	17.4	18.1	19.5	22.9
L13	14:10:28	2.9	7.8	16.2	13.5	17.1	15.8	18.4	18.4	22.8	24.8
L14	14:15:45	3.0	7.9	15.7	13.5	19.3	13.5	20.5	16.8	25.0	25.6
L14A	14:17:44	3.0	8.3	14.9	13.8	21.4	13.0	21.5	16.7	24.3	25.0
L14B	14:18:16	3.0	8.2	15.1	13.7	21.0	12.7	20.7	15.3	22.7	23.7
L14C	14:22:15	3.1	8.1	15.3	13.6	20.5	13.1	20.3	15.7	22.3	23.6
U1	14:27:22	1.9	6.2	13.6	10.1	16.7	9.2	16.1	11.8	17.5	17.3
U2	14:31:41	-0.2	4.6	8.5	5.5	11.0	3.9	10.0	6.6	10.8	11.1
U3	14:36:13	-0.9	3.5	6.0	3.2	6.8	2.2	7.1	4.9	7.1	9.3
U4	14:41:07	-0.7	0.7	1.8	-0.0	3.4	-1.4	2.8	1.6	1.8	4.4
U5	14:45:51	-1.4	0.1	-0.4	-2.5	0.6	-3.4	-1.2	-0.2	-2.0	2.7
U6	14:49:02	-2.8	-2.1	-4.7	-5.3	-2.8	-6.3	-4.8	-3.6	-5.4	-1.5
U6A	14:54:30	-2.8	-2.2	-4.9	-5.2	-2.8	-6.3	-4.7	-3.6	-4.8	-1.6

Table F.12 continued

AVERAGE STRAIN AT EACH GAGE LEVEL, INTEGRATED PILE COMPRESSION & COMPARISON WITH TELLTALE MEASUREMENT (4 MINUTE READINGS)

BKM 4 LOAD NUMBER	AVG VW MICRO STRAIN SURFACE	AVG VW MICRO STRAIN 43+44	AVG VW MICRO STRAIN 55+56	AVG VW MICRO STRAIN 57+58	AVG VW MICRO STRAIN 59+60	AVG VW MICRO STRAIN 61+62	EST'D. MICRO STRAIN CELL TOP	PILE COMPRESSION SG MSMT. INCHES	TT MSMT. INCHES	ABS.DIFF. SG-TT INCHES
L0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0000	0.0000	0.0000
L1	0.0	0.2	0.8	1.4	0.9	2.4	3.8	0.0003	0.0002	0.0002
L2	0.0	0.4	1.2	2.0	1.5	2.1	4.1	0.0004	0.0003	0.0001
L3	0.0	0.9	2.0	1.8	2.8	3.8	6.0	0.0007	0.0006	0.0001
L4	0.0	1.2	3.4	3.5	4.5	7.0	8.8	0.0011	0.0008	0.0004
L5	0.0	1.8	4.9	5.4	5.7	8.7	10.7	0.0015	0.0012	0.0003
L6	0.0	2.8	6.1	7.3	7.6	10.0	12.3	0.0020	0.0017	0.0004
L7	0.0	3.2	7.6	8.2	9.3	11.8	14.2	0.0024	0.0020	0.0004
L8	0.0	3.8	8.8	10.2	11.0	15.8	17.6	0.0029	0.0025	0.0005
L9	0.0	4.0	10.5	12.0	12.8	15.6	18.1	0.0033	0.0028	0.0005
L10	0.0	4.7	12.0	12.8	14.2	18.2	20.7	0.0037	0.0032	0.0005
L11	0.0	4.8	13.6	15.0	16.1	19.6	22.3	0.0041	0.0037	0.0005
L12	0.0	5.2	14.5	16.4	17.7	21.2	24.0	0.0045	0.0039	0.0006
L13	0.0	5.3	14.9	16.5	18.4	23.8	26.5	0.0046	0.0043	0.0003
L14	0.0	5.5	14.6	16.4	18.6	25.3	28.2	0.0047	0.0044	0.0003
L14A	0.0	5.6	14.4	17.2	19.1	24.6	27.4	0.0047	0.0044	0.0003
L14B	0.0	5.6	14.4	16.8	18.0	23.2	26.0	0.0046	0.0044	0.0002
L14C	0.0	5.6	14.4	16.8	18.0	23.0	25.8	0.0046	0.0044	0.0002
U1	0.0	4.1	11.9	13.0	13.9	17.4	19.5	0.0036	0.0037	-0.0001
U2	0.0	2.2	7.0	7.5	8.3	11.0	12.6	0.0021	0.0025	-0.0004
U3	0.0	1.3	4.6	4.5	6.0	8.2	9.6	0.0014	0.0020	-0.0006
U4	0.0	-0.0	0.9	1.0	2.2	3.1	4.8	0.0004	0.0011	-0.0007
U5	0.0	-0.6	-1.4	-1.4	-0.7	0.4	1.8	-0.0003	0.0005	-0.0007
U6	0.0	-2.5	-5.0	-4.6	-4.2	-3.4	-2.2	-0.0012	-0.0003	-0.0009
U6A	0.0	-2.5	-5.1	-4.6	-4.2	-3.2	-2.1	-0.0012	-0.0004	-0.0008
ELEV. FT	14.22	8.17	2.17	-3.83	-8.83	-14.33	-14.83			

Table F.12 continued

VIBRATING WIRE CALCULATED AVERAGE LOADS (4 MINUTE READINGS)

LA = 5.50 ft
LB = 1.38 ft
B = 18.00 in
ES = 27500.0 ksi

ACA = 317.115 si
ACB = 313.155 si
ASA = 3.538 si
ASB = 7.498 si

BKM 4 LOAD NUMBER	AVG VW LOAD TONS SURFACE	AVG VW LOAD TONS 43+44	AVG VW LOAD TONS 55+56	AVG VW LOAD TONS 57+58	AVG VW LOAD TONS 59+60	AVG VW LOAD TONS 61+62	OSTERBERG LOAD TONS BOTTOM	INCR. PILE MODULUS KSI	CALC. PILE A MODULUS KSI	CALC. PILE B MODULUS KSI
L0	0.0	0.00	0.00	0.00	0.00	0.00	0.0		4328.9	4614.7
L1	0.0	0.17	0.53	0.99	0.64	1.80	4.7	12004.2	4328.9	4614.7
L2	0.0	0.26	0.85	1.37	1.06	1.57	5.7	-19542.7	4328.9	4614.7
L3	0.0	0.66	1.40	1.26	1.95	2.83	7.3	6069.2	4328.9	4614.7
L4	0.0	0.83	2.41	2.47	3.18	5.27	9.0	3104.4	4328.9	4614.7
L5	0.0	1.26	3.45	3.77	3.96	6.47	10.6	6283.8	4328.9	4614.7
L6	0.0	1.96	4.26	5.15	5.36	7.49	12.1	6955.3	4328.9	4614.7
L7	0.0	2.24	5.34	5.76	6.54	8.83	13.8	5565.5	4328.9	4614.7
L8	0.0	2.69	6.21	7.17	7.70	11.83	15.4	2492.5	4328.9	4614.7
L9	0.0	2.83	7.35	8.40	8.95	11.66	16.9	-40392.8	4328.9	4614.7
L10	0.0	3.28	8.44	8.98	9.97	13.64	18.6	3970.0	4328.9	4614.7
L11	0.0	3.36	9.53	10.55	11.30	14.67	20.1	6799.7	4328.9	4614.7
L12	0.0	3.66	10.20	11.50	12.43	15.87	21.6	5821.4	4328.9	4614.7
L13	0.0	3.75	10.42	11.56	12.90	17.78	23.3	4079.4	4328.9	4614.7
L14	0.0	3.82	10.23	11.52	13.08	18.88	24.9	6700.9	4328.9	4614.7
L14A	0.0	3.93	10.08	12.07	13.40	18.42	24.0		4328.9	4614.7
L14B	0.0	3.92	10.09	11.80	12.62	17.35	23.0		4328.9	4614.7
L14C	0.0	3.91	10.13	11.80	12.61	17.17	23.0		4328.9	4614.7
U1	0.0	2.85	8.31	9.11	9.78	13.02	17.3		4328.9	4614.7
U2	0.0	1.55	4.89	5.24	5.81	8.20	11.5		4328.9	4614.7
U3	0.0	0.92	3.24	3.16	4.18	6.12	9.1		4328.9	4614.7
U4	0.0	-0.01	0.62	0.68	1.57	2.34	5.7		4328.9	4614.7
U5	0.0	-0.45	-0.99	-1.00	-0.49	0.27	3.3		4328.9	4614.7
U6	0.0	-1.72	-3.52	-3.20	-2.97	-2.56	0.0		4328.9	4614.7
U6A	0.0	-1.72	-3.56	-3.21	-2.91	-2.42	0.0		4328.9	4614.7

ELEV. FT	14.22	8.17	2.17	-3.83	-8.83	-14.33	-15.71	4116.1 KSI = CONCRETE MODULUS

Table F.12 continued

INTEGRATED MOVEMENT AT VW STRAIN GAGE (4 MINUTE READINGS)

BKM 4 LOAD NUMBER	VW MOVEMENT INCHES SURFACE	VW MOVEMENT INCHES 43+44	VW MOVEMENT INCHES 55+56	VW MOVEMENT INCHES 57+58	VW MOVEMENT INCHES 59+60	VW MOVEMENT INCHES 61+62	VW MOVEMENT INCHES CELL TOP
L0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L1	-0.0002	-0.0002	-0.0001	-0.0000	0.0000	0.0001	0.0002
L2	-0.0001	-0.0001	-0.0001	0.0001	0.0002	0.0003	0.0003
L3	-0.0001	-0.0001	0.0000	0.0002	0.0003	0.0005	0.0006
L4	0.0046	0.0047	0.0048	0.0051	0.0053	0.0057	0.0058
L5	0.0047	0.0048	0.0050	0.0054	0.0057	0.0062	0.0063
L6	0.0046	0.0047	0.0051	0.0056	0.0060	0.0066	0.0067
L7	0.0046	0.0047	0.0051	0.0056	0.0062	0.0069	0.0070
L8	0.0045	0.0047	0.0051	0.0058	0.0065	0.0073	0.0075
L9	0.0145	0.0147	0.0152	0.0160	0.0168	0.0177	0.0178
L10	0.0195	0.0197	0.0203	0.0212	0.0220	0.0231	0.0232
L11	0.0245	0.0247	0.0254	0.0264	0.0273	0.0285	0.0287
L12	0.0344	0.0346	0.0353	0.0365	0.0375	0.0388	0.0389
L13	0.0497	0.0499	0.0506	0.0517	0.0528	0.0541	0.0543
L14	0.1497	0.1499	0.1506	0.1517	0.1527	0.1542	0.1544
L14A	0.3447	0.3449	0.3456	0.3467	0.3478	0.3492	0.3494
L14B	0.4498	0.4500	0.4507	0.4518	0.4529	0.4543	0.4544
L14C	0.4598	0.4600	0.4607	0.4619	0.4629	0.4643	0.4644
U1	0.4601	0.4603	0.4609	0.4617	0.4626	0.4636	0.4637
U2	0.4554	0.4555	0.4558	0.4563	0.4568	0.4574	0.4575
U3	0.4506	0.4506	0.4508	0.4512	0.4515	0.4519	0.4520
U4	0.4457	0.4457	0.4457	0.4458	0.4459	0.4461	0.4461
U5	0.4357	0.4357	0.4356	0.4355	0.4355	0.4354	0.4355
U6	0.4259	0.4258	0.4255	0.4252	0.4249	0.4247	0.4247
U6A	0.4208	0.4207	0.4205	0.4201	0.4199	0.4196	0.4196

Table F.12 continued

INTEGRATED MOVEMENT AT SEGMENT CL (4 MINUTE READINGS)

BKM 4 LOAD NUMBER	AVG VW MOVEMENT INCHES	AVG VW MOVEMENT INCHES	AVG VW MOVEMENT INCHES	AVG VW MOVEMENT INCHES	AVG VW MOVEMENT INCHES
CL.ELEV.	11.20	5.17	-0.83	-6.33	-11.58
L0	0.0000	0.0000	0.0000	0.0000	0.0000
L1	0.0000	0.0000	0.0000	0.0000	0.0001
L2	0.0000	0.0000	0.0000	0.0001	0.0002
L3	0.0000	0.0000	0.0001	0.0002	0.0004
L4	0.0046	0.0047	0.0050	0.0052	0.0055
L5	0.0047	0.0049	0.0052	0.0056	0.0060
L6	0.0047	0.0049	0.0053	0.0058	0.0063
L7	0.0046	0.0049	0.0054	0.0059	0.0065
L8	0.0046	0.0049	0.0055	0.0061	0.0069
L9	0.0146	0.0150	0.0156	0.0164	0.0172
L10	0.0196	0.0200	0.0208	0.0216	0.0225
L11	0.0246	0.0250	0.0259	0.0269	0.0279
L12	0.0345	0.0350	0.0359	0.0370	0.0381
L13	0.0498	0.0502	0.0511	0.0522	0.0535
L14	0.1498	0.1502	0.1511	0.1522	0.1535
L14A	0.3448	0.3452	0.3461	0.3473	0.3485
L14B	0.4499	0.4504	0.4513	0.4524	0.4536
L14C	0.4599	0.4604	0.4613	0.4624	0.4636
U1	0.4602	0.4606	0.4613	0.4622	0.4631
U2	0.4554	0.4556	0.4561	0.4566	0.4571
U3	0.4506	0.4507	0.4510	0.4513	0.4517
U4	0.4457	0.4457	0.4458	0.4459	0.4460
U5	0.4357	0.4357	0.4356	0.4355	0.4354
U6	0.4258	0.4257	0.4254	0.4251	0.4248
U6A	0.4208	0.4206	0.4203	0.4200	0.4197

Table F.12 continued

AVERAGE SEGMENT SHEAR STRESS (4 MINUTE READINGS)

BKM 4 LOAD NUMBER CL.ELEV.	AVG VW SHEAR TSF 11.20	AVG VW SHEAR TSF 5.17	AVG VW SHEAR TSF -0.83	AVG VW SHEAR TSF -6.33	AVG VW SHEAR TSF -11.58
L0	-0.016	-0.016	-0.016	-0.016	-0.016
L1	-0.012	-0.006	-0.004	-0.028	0.019
L2	-0.009	-0.000	-0.002	-0.027	-0.001
L3	0.002	0.004	-0.020	0.007	0.010
L4	0.007	0.027	-0.015	0.007	0.047
L5	0.018	0.044	-0.007	-0.010	0.060
L6	0.038	0.047	0.008	-0.010	0.048
L7	0.045	0.070	-0.005	0.010	0.053
L8	0.058	0.081	0.010	0.001	0.109
L9	0.061	0.109	0.013	0.002	0.066
L10	0.074	0.127	-0.001	0.017	0.095
L11	0.076	0.155	0.012	0.009	0.086
L12	0.084	0.165	0.020	0.015	0.088
L13	0.087	0.169	0.015	0.028	0.132
L14	0.089	0.162	0.019	0.035	0.159
L14A	0.092	0.154	0.039	0.028	0.136
L14B	0.092	0.155	0.031	0.011	0.127
L14C	0.091	0.156	0.030	0.010	0.122
U1	0.062	0.135	0.006	0.006	0.082
U2	0.026	0.076	-0.007	0.002	0.056
U3	0.009	0.048	-0.019	0.018	0.042
U4	-0.017	0.001	-0.015	0.013	0.007
U5	-0.029	-0.032	-0.017	0.000	0.007
U6	-0.064	-0.066	-0.008	-0.009	-0.004
U6A	-0.064	-0.067	-0.007	-0.006	-0.001

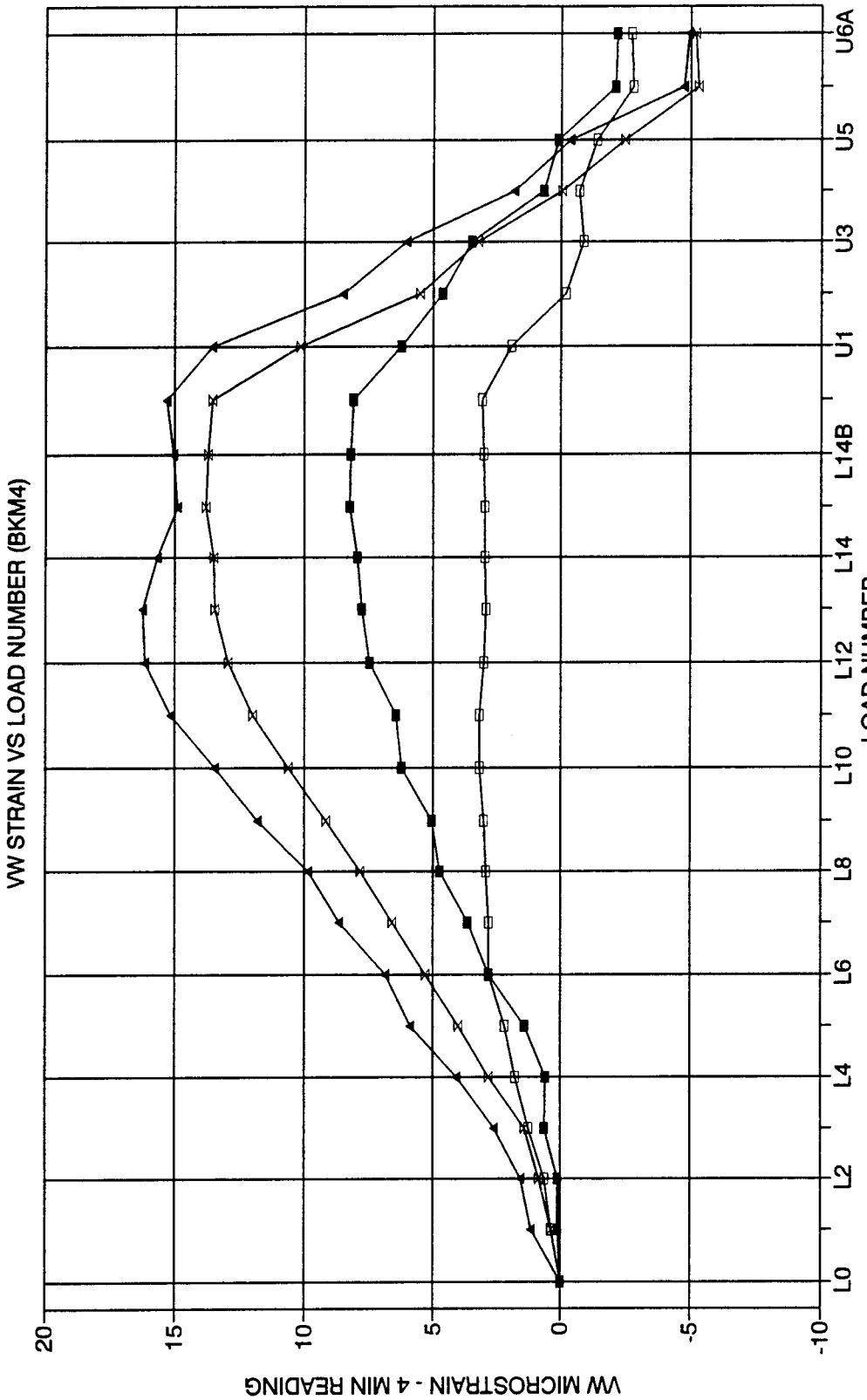

Figure F.53 Strain at Pile Top: Buckman Load Test 4

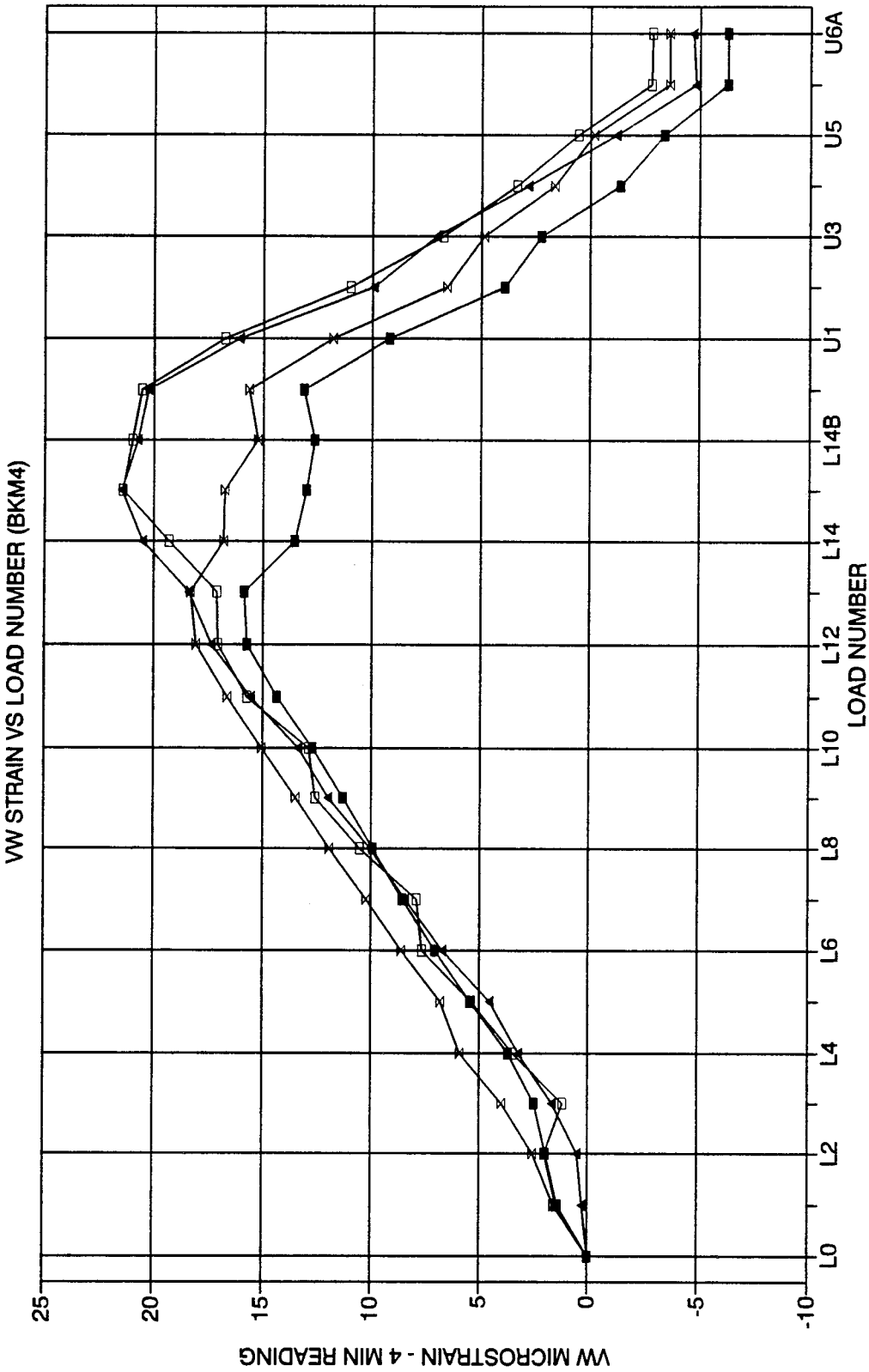

Figure F.54 Strain at Pile Middle: Buckman Load Test 4

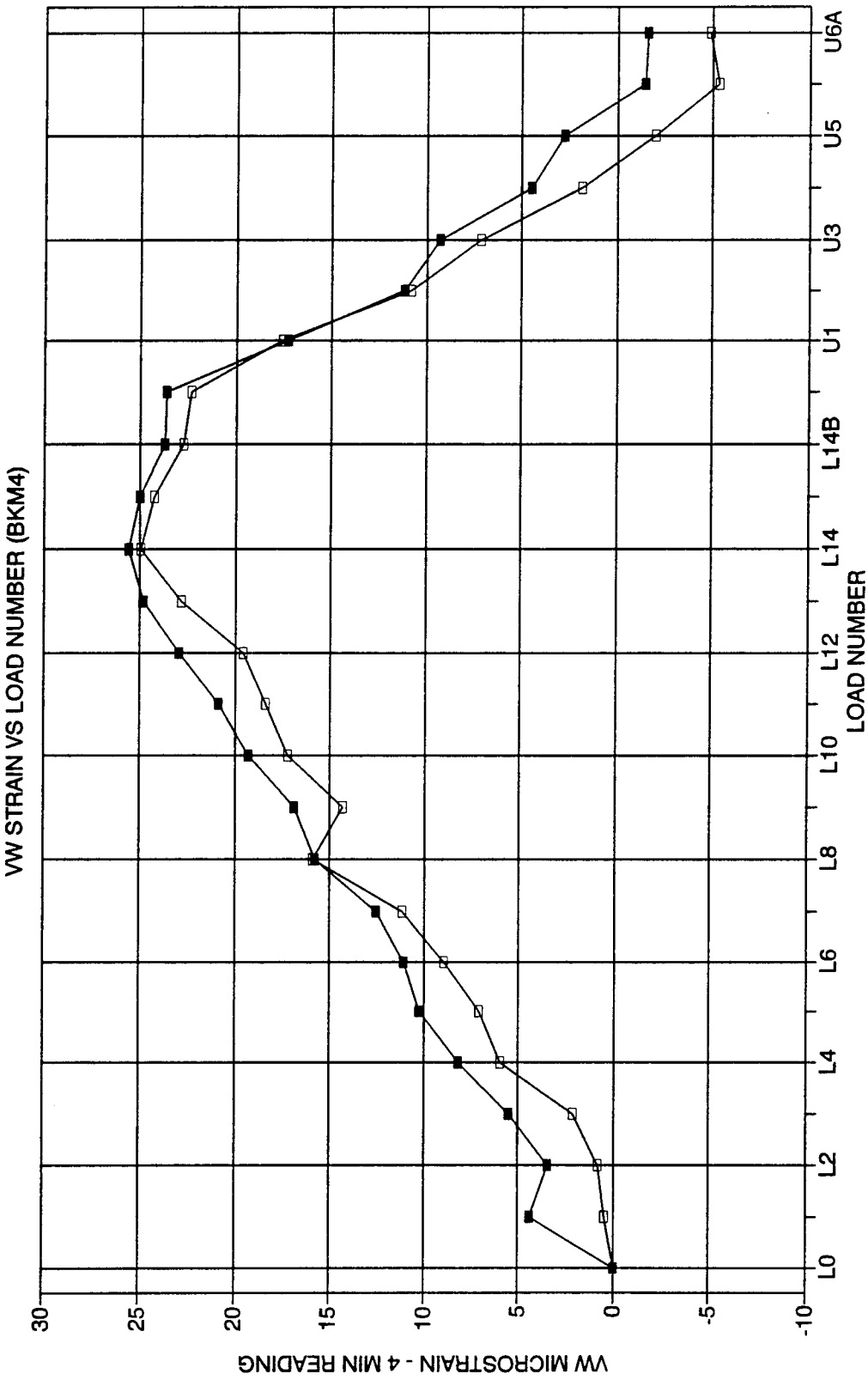

Figure F.55 Strain at Pile Bottom: Buckman Load Test 4

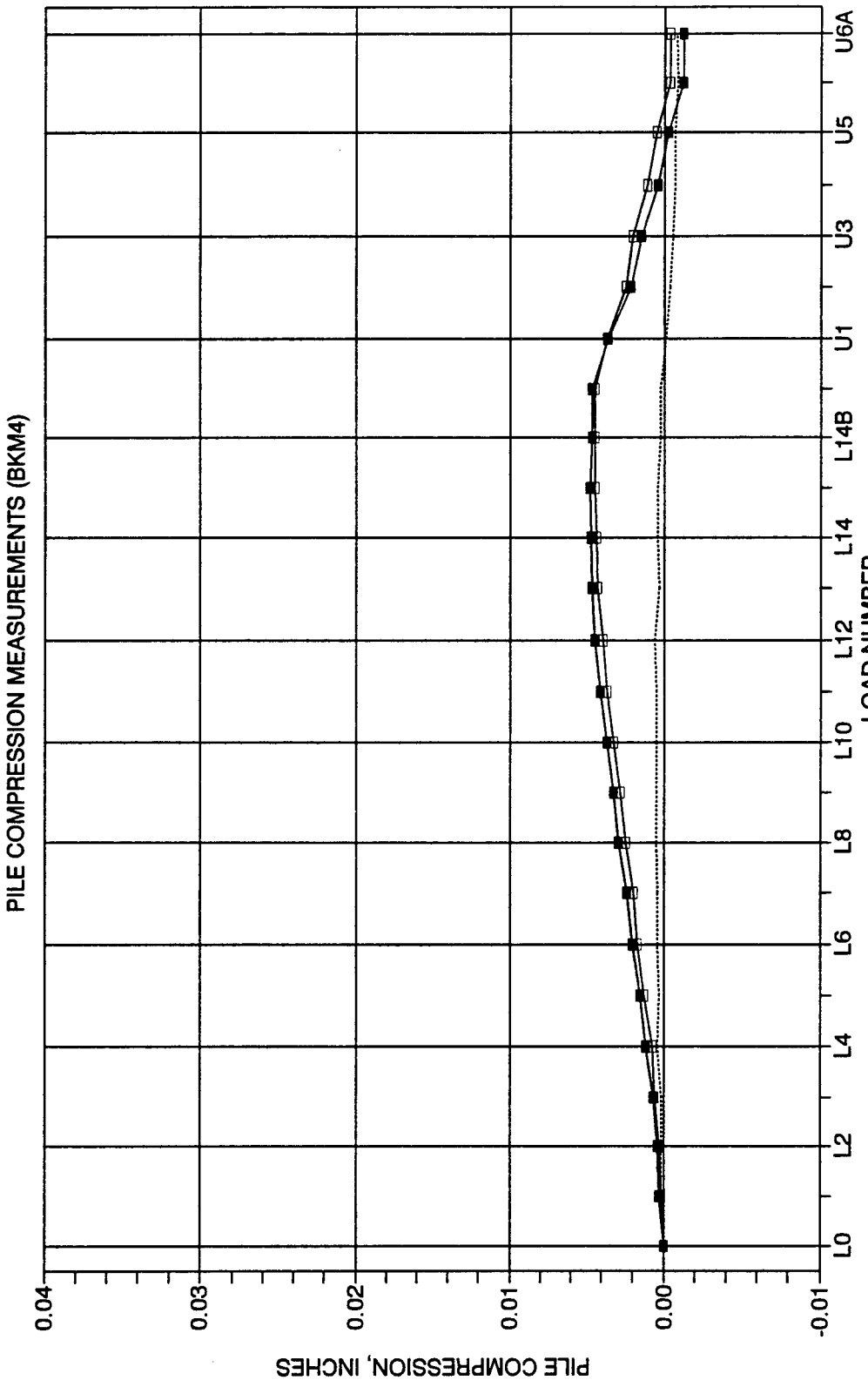

Figure F.56 Pile Compression Measurements: Buckman Load Test 4

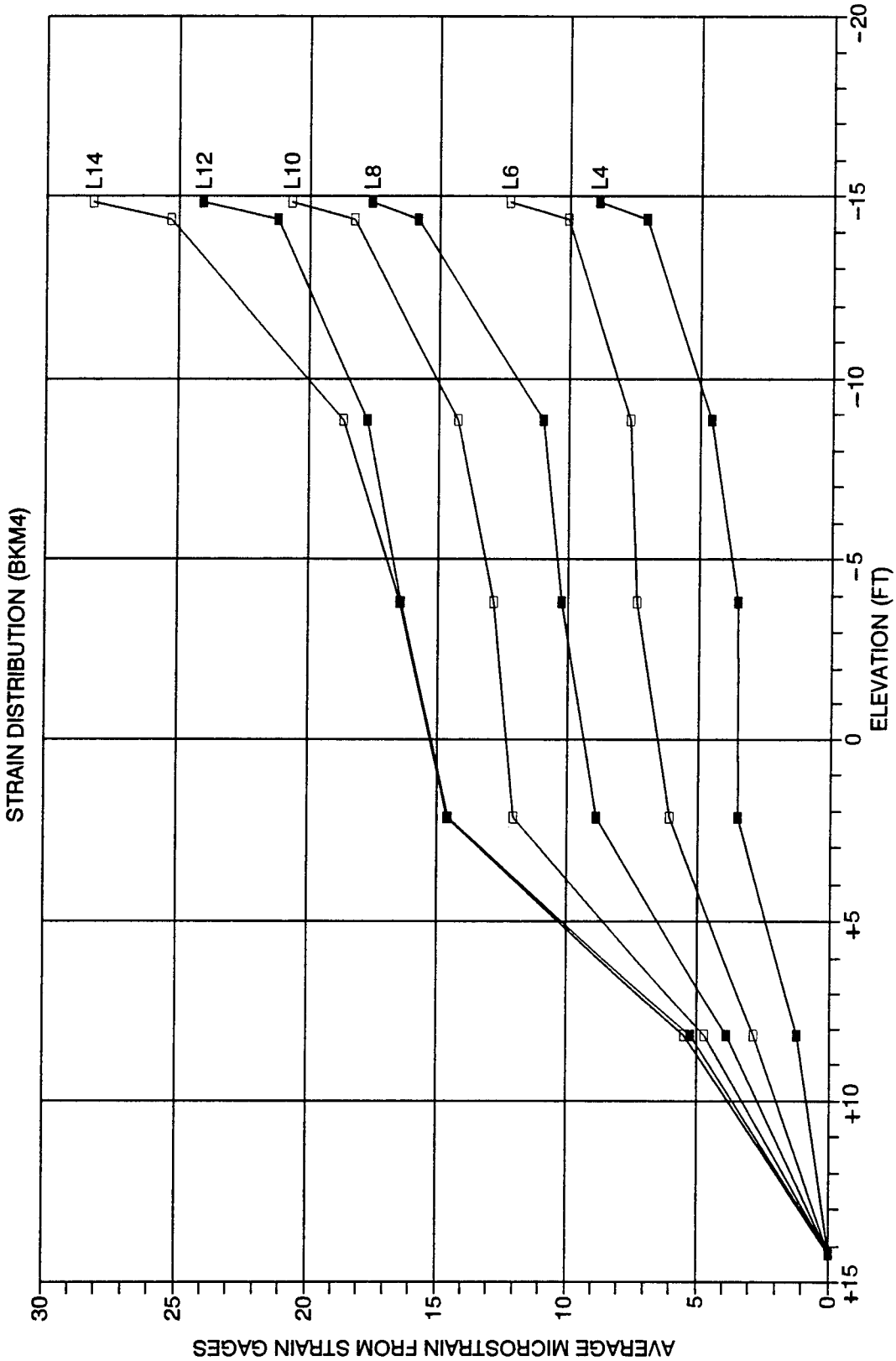

Figure F.57 Pile Strain Distribution: Buckman Load Test 4

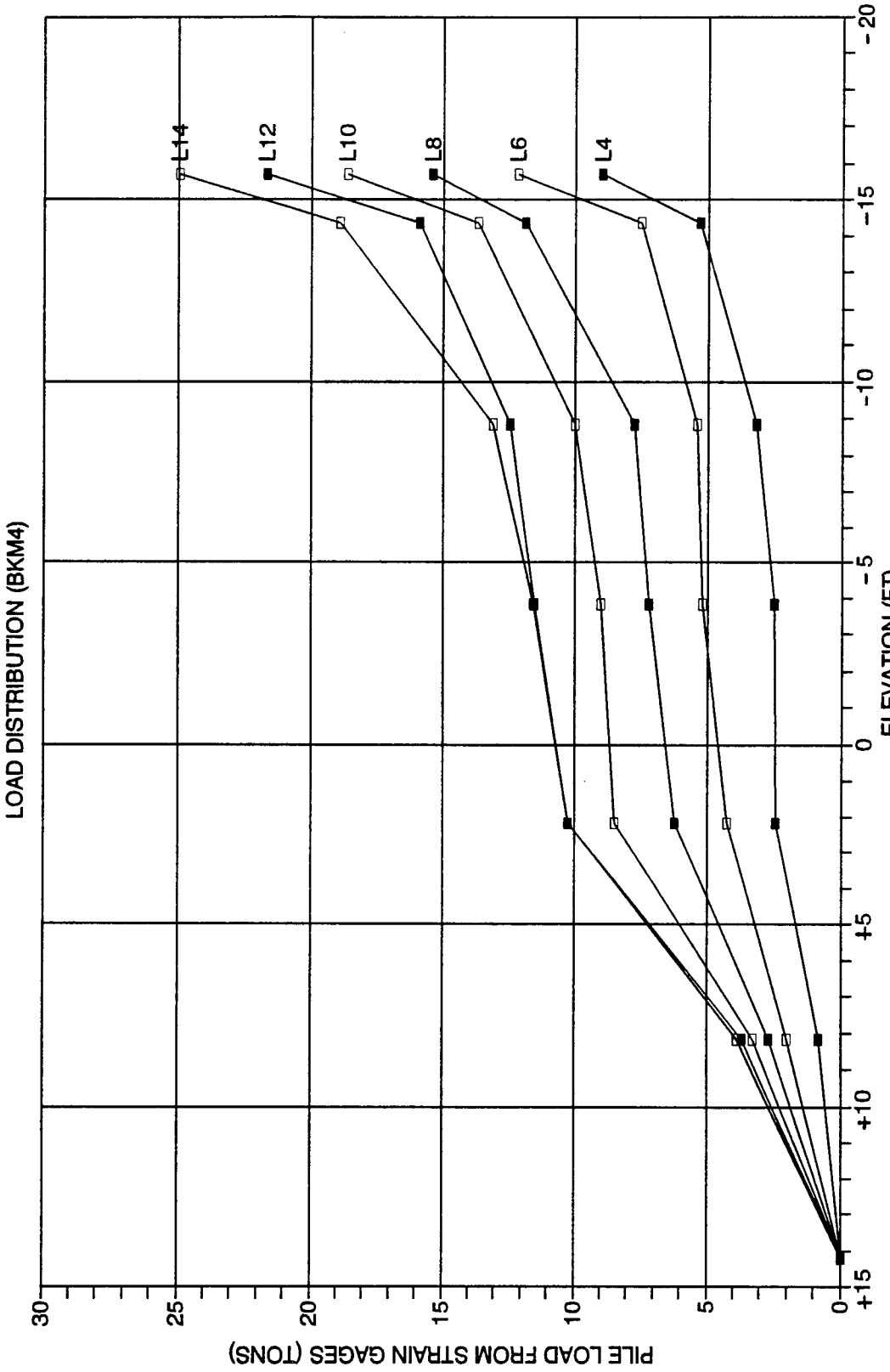

Figure F.58 Pile Load Distribution: Buckman Load Test 4

Table F.13 Strain Analyses: Buckman Load Test 5

VIBRATING WIRE INSTRUMENT READINGS - STRAIN

BKM 5 LOAD NUMBER	TIME	VW STRN FREQ^2 KHZ^2 43	VW STRN FREQ^2 KHZ^2 44	VW STRN FREQ^2 KHZ^2 55	VW STRN FREQ^2 KHZ^2 56	VW STRN FREQ^2 KHZ^2 57	VW STRN FREQ^2 KHZ^2 58	VW STRN FREQ^2 KHZ^2 59	VW STRN FREQ^2 KHZ^2 60	VW STRN FREQ^2 KHZ^2 61	VW STRN FREQ KHZ^2 62
L0	11:03:19	0.69229	0.72371	0.73875	0.75967	0.69651	0.67414	0.73908	0.72337	0.88395	0.89273
L0	11:06:05	0.69229	0.72369	0.73876	0.75968	0.69652	0.67415	0.73909	0.72339	0.88395	0.89271
L0	11:06:33	0.69229	0.72369	0.73875	0.75968	0.69652	0.67415	0.73909	0.72339	0.88396	0.89273
L0	11:12:06	0.69228	0.72345	0.73875	0.75968	0.69651	0.67415	0.73908	0.72338	0.88395	0.89275
L0	11:13:27	0.69229	0.72374	0.73875	0.75968	0.69652	0.67415	0.73908	0.72339	0.88395	0.89272
L0	11:16:51	0.69230	0.72369	0.73875	0.75967	0.69651	0.67415	0.73909	0.72340	0.88395	0.89271
L0	11:20:09	0.69230	0.72372	0.73874	0.75968	0.69652	0.67414	0.73908	0.72340	0.88395	0.89273
L0	11:21:27	0.69230	0.72372	0.73869	0.75967	0.69654	0.67414	0.73908	0.72339	0.88396	0.89270
L0	11:30:11	0.69230	0.72368	0.73867	0.75968	0.69651	0.67414	0.73905	0.72339	0.88395	0.89271
L0	11:43:35	0.69230	0.72341	0.73875	0.75967	0.69654	0.67415	0.73909	0.72339	0.88395	0.89269
L0	11:45:06	0.69230	0.72341	0.73875	0.75968	0.69652	0.67414	0.73909	0.72340	0.88396	0.89268
L0	11:45:49	0.69230	0.72374	0.73876	0.75968	0.69652	0.67415	0.73909	0.72339	0.88394	0.89271
L0	12:00:49	0.69229	0.72378	0.73867	0.75967	0.69652	0.67415	0.73909	0.72340	0.88396	0.89272
L0	12:15:49	0.69227	0.72371	0.73872	0.75964	0.69648	0.67413	0.73908	0.72339	0.88393	0.89274
L0	12:26:18	0.69227	0.72376	0.73872	0.75965	0.69648	0.67413	0.73908	0.72339	0.88393	0.89270
L0	12:40:41	0.69229	0.72375	0.73867	0.75966	0.69652	0.67415	0.73905	0.72343	0.88396	0.89287
L1	12:43:09	0.69226	0.72361	0.73858	0.75959	0.69635	0.67411	0.73906	0.72315	0.88391	0.89265
L1	12:43:43	0.69226	0.72361	0.73864	0.75959	0.69635	0.67411	0.73905	0.72319	0.88392	0.89264
L1	12:44:43	0.69225	0.72363	0.73866	0.75959	0.69635	0.67410	0.73905	0.72318	0.88392	0.89266
L1	12:46:40	0.69225	0.72362	0.73855	0.75959	0.69637	0.67410	0.73906	0.72320	0.88393	0.89266
L2	12:48:52	0.69221	0.72345	0.73845	0.75949	0.69595	0.67398	0.73895	0.72271	0.88373	0.89233
L2	12:49:20	0.69221	0.72344	0.73844	0.75949	0.69594	0.67397	0.73893	0.72272	0.88372	0.89233
L2	12:50:21	0.69222	0.72344	0.73844	0.75949	0.69590	0.67397	0.73894	0.72272	0.88371	0.89231
L2	12:52:18	0.69221	0.72346	0.73844	0.75949	0.69590	0.67398	0.73894	0.72272	0.88370	0.89233
L3	12:54:09	0.69213	0.72330	0.73813	0.75931	0.69528	0.67354	0.73832	0.72199	0.88291	0.89178
L3	12:54:45	0.69215	0.72331	0.73813	0.75930	0.69528	0.67353	0.73829	0.72198	0.88283	0.89174
L3	12:55:43	0.69213	0.72329	0.73813	0.75930	0.69605	0.67352	0.73828	0.72196	0.88284	0.89175
L3	12:57:46	0.69215	0.72330	0.73812	0.75929	0.69599	0.67351	0.73828	0.72195	0.88284	0.89178
L4	12:59:51	0.69206	0.72323	0.73782	0.75907	0.69502	0.67332	0.73767	0.72140	0.88295	0.89128
L4	13:00:21	0.69203	0.72323	0.73787	0.75907	0.69504	0.67330	0.73767	0.72134	0.88295	0.89127
L4	13:01:24	0.69204	0.72321	0.73782	0.75907	0.69505	0.67334	0.73768	0.72141	0.88293	0.89124
L4	13:03:19	0.69203	0.72323	0.73780	0.75906	0.69505	0.67332	0.73766	0.72142	0.88293	0.89129
L5	13:05:06	0.69194	0.72312	0.73748	0.75882	0.69491	0.67277	0.73747	0.72156	0.88195	0.89073
L5	13:05:39	0.69193	0.72311	0.73747	0.75880	0.69493	0.67276	0.73746	0.72155	0.88192	0.89066
L5	13:06:36	0.69195	0.72311	0.73751	0.75880	0.69489	0.67283	0.73745	0.72156	0.88190	0.89072
L5	13:08:35	0.69194	0.72308	0.73747	0.75879	0.69487	0.67275	0.73743	0.72154	0.88189	0.89064
L6	13:09:59	0.69182	0.72294	0.73706	0.75851	0.69437	0.67245	0.73667	0.72091	0.88133	0.89004
L6	13:10:31	0.69182	0.72290	0.73708	0.75849	0.69436	0.67245	0.73664	0.72089	0.88133	0.89003
L6	13:11:31	0.69181	0.72293	0.73706	0.75847	0.69433	0.67242	0.73663	0.72086	0.88133	0.89003
L6	13:13:31	0.69181	0.72289	0.73703	0.75863	0.69427	0.67242	0.73660	0.72083	0.88133	0.89003
L7	13:15:14	0.69168	0.72266	0.73660	0.75794	0.69377	0.67186	0.73603	0.71997	0.88052	0.88966
L7	13:15:43	0.69168	0.72264	0.73657	0.75792	0.69384	0.67184	0.73601	0.71997	0.88064	0.88965
L7	13:16:46	0.69167	0.72264	0.73654	0.75788	0.69373	0.67179	0.73597	0.71978	0.88052	0.88967

Table F.13 continued

VIBRATING WIRE INSTRUMENT READINGS - STRAIN

BKM 5 LOAD NUMBER	TIME	VW STRN FREQ^2 KHZ^2 43	VW STRN FREQ^2 KHZ^2 44	VW STRN FREQ^2 KHZ^2 55	VW STRN FREQ^2 KHZ^2 56	VW STRN FREQ^2 KHZ^2 57	VW STRN FREQ^2 KHZ^2 58	VW STRN FREQ^2 KHZ^2 59	VW STRN FREQ^2 KHZ^2 60	VW STRN FREQ^2 KHZ^2 61	VW STRN FREQ KHZ^2 62
L7	13:18:45	0.69165	0.72258	0.73652	0.75786	0.69363	0.67177	0.73596	0.71975	0.88059	0.88969
L8	13:20:27	0.69143	0.72228	0.73612	0.75751	0.69348	0.67144	0.73567	0.72013	0.88060	0.88903
L8	13:20:57	0.69141	0.72225	0.73614	0.75751	0.69345	0.67146	0.73564	0.72008	0.88060	0.88903
L8	13:21:55	0.69141	0.72221	0.73609	0.75749	0.69340	0.67144	0.73562	0.72002	0.88059	0.88901
L8	13:23:57	0.69140	0.72220	0.73606	0.75747	0.69333	0.67144	0.73560	0.72002	0.88058	0.88901
L9	13:25:32	0.69116	0.72238	0.73571	0.75716	0.69274	0.67095	0.73498	0.71937	0.87987	0.88906
L9	13:26:06	0.69117	0.72237	0.73568	0.75716	0.69268	0.67093	0.73497	0.71936	0.87989	0.88907
L9	13:27:02	0.69115	0.72226	0.73566	0.75708	0.69261	0.67090	0.73493	0.71929	0.87988	0.88906
L9	13:29:01	0.69115	0.72186	0.73564	0.75709	0.69259	0.67090	0.73491	0.71926	0.87985	0.88904
L10	13:30:30	0.69121	0.72175	0.73527	0.75670	0.69262	0.67052	0.73439	0.71900	0.87921	0.88859
L10	13:31:03	0.69120	0.72175	0.73524	0.75669	0.69256	0.67049	0.73436	0.71894	0.87917	0.88849
L10	13:32:02	0.69119	0.72171	0.73522	0.75668	0.69252	0.67045	0.73432	0.71888	0.87914	0.88842
L10	13:34:00	0.69121	0.72169	0.73520	0.75665	0.69244	0.67046	0.73433	0.71884	0.87910	0.88837
L11	13:35:29	0.69129	0.72149	0.73492	0.75634	0.69183	0.67003	0.73390	0.71878	0.87873	0.88771
L11	13:36:00	0.69134	0.72148	0.73495	0.75631	0.69180	0.67002	0.73394	0.71879	0.87880	0.88776
L11	13:37:00	0.69128	0.72146	0.73493	0.75629	0.69175	0.67002	0.73383	0.71880	0.87875	0.88765
L11	13:39:03	0.69131	0.72148	0.73484	0.75626	0.69171	0.67002	0.73388	0.71879	0.87868	0.88761
L12	13:40:25	0.69141	0.72127	0.73427	0.75587	0.69105	0.66960	0.73333	0.71806	0.87828	0.88740
L12	13:40:57	0.69142	0.72124	0.73424	0.75586	0.69104	0.66959	0.73333	0.71802	0.87827	0.88735
L12	13:41:55	0.69139	0.72120	0.73422	0.75583	0.69099	0.66957	0.73331	0.71800	0.87826	0.88735
L12	13:43:57	0.69139	0.72117	0.73418	0.75581	0.69097	0.66955	0.73328	0.71796	0.87822	0.88728
L13	13:45:17	0.69142	0.72100	0.73388	0.75567	0.69086	0.66931	0.73276	0.71752	0.87763	0.88671
L13	13:45:46	0.69140	0.72099	0.73385	0.75565	0.69083	0.66929	0.73272	0.71751	0.87761	0.88666
L13	13:46:46	0.69140	0.72098	0.73382	0.75563	0.69082	0.66939	0.73274	0.71753	0.87762	0.88665
L13	13:48:48	0.69139	0.72096	0.73380	0.75559	0.69075	0.66938	0.73272	0.71751	0.87760	0.88663
L14	13:50:26	0.69141	0.72089	0.73346	0.75534	0.69013	0.66886	0.73234	0.71697	0.87691	0.88647
L14	13:50:58	0.69141	0.72087	0.73342	0.75530	0.69002	0.66885	0.73232	0.71695	0.87690	0.88648
L14	13:51:56	0.69138	0.72086	0.73340	0.75527	0.68993	0.66885	0.73225	0.71694	0.87657	0.88646
L14	13:53:54	0.69141	0.72085	0.73337	0.75521	0.68982	0.66885	0.73220	0.71693	0.87674	0.88645
L15	13:55:15	0.69141	0.72078	0.73319	0.75485	0.68958	0.66862	0.73179	0.71703	0.87668	0.88606
L15	13:55:43	0.69141	0.72077	0.73319	0.75485	0.68958	0.66865	0.73179	0.71708	0.87675	0.88614
L15	13:56:42	0.69141	0.72075	0.73314	0.75482	0.68950	0.66859	0.73171	0.71703	0.87667	0.88604
L15	13:58:43	0.69140	0.72078	0.73298	0.75480	0.68944	0.66859	0.73167	0.71704	0.87663	0.88605
L16	14:00:03	0.69140	0.72073	0.73262	0.75475	0.68921	0.66838	0.73135	0.71672	0.87575	0.88546
L16	14:00:33	0.69137	0.72077	0.73262	0.75475	0.68920	0.66839	0.73135	0.71676	0.87574	0.88541
L16	14:01:34	0.69141	0.72074	0.73259	0.75474	0.68918	0.66840	0.73136	0.71676	0.87570	0.88538
L16	14:03:39	0.69141	0.72074	0.73258	0.75478	0.68915	0.66843	0.73133	0.71684	0.87542	0.88492
L17	14:05:05	0.69138	0.72020	0.73246	0.75489	0.68907	0.66844	0.73106	0.71685	0.87487	0.88503
L17	14:05:37	0.69140	0.72007	0.73241	0.75489	0.68899	0.66848	0.73101	0.71694	0.87483	0.88492
L17	14:06:36	0.69137	0.72012	0.73236	0.75494	0.68886	0.66866	0.73090	0.71706	0.87478	0.88491
L17A	14:13:44	0.69140	0.72049	0.73209	0.75484	0.68827	0.66884	0.73050	0.71700	0.87462	0.88501
U1	14:16:48	0.69132	0.72055	0.73217	0.75495	0.68881	0.66886	0.73071	0.71676	0.87502	0.88494
U3	14:25:36	0.69258	0.72302	0.73752	0.75935	0.69420	0.67423	0.73735	0.72242	0.88299	0.89150

Table F.13 continued

VIBRATING WIRE INSTRUMENT READINGS - STRAIN

BKM 5 LOAD NUMBER	TIME	VW STRN FREQ^2 KHZ^2 43	VW STRN FREQ^2 KHZ^2 44	VW STRN FREQ^2 KHZ^2 55	VW STRN FREQ^2 KHZ^2 56	VW STRN FREQ^2 KHZ^2 57	VW STRN FREQ^2 KHZ^2 58	VW STRN FREQ^2 KHZ^2 59	VW STRN FREQ^2 KHZ^2 60	VW STRN FREQ^2 KHZ^2 61	VW STRN FREQ KHZ^2 62
U4	14:29:18	0.69291	0.72346	0.73893	0.76031	0.69571	0.67524	0.73912	0.72301	0.88431	0.89274
U4A	14:32:14	0.69291	0.72343	0.73895	0.76036	0.69587	0.67524	0.73915	0.72307	0.88427	0.89273
U5	14:47:14	0.69294	0.72349	0.73899	0.76039	0.69608	0.67520	0.73916	0.72304	0.88429	0.89274
U5	15:02:14	0.69293	0.72349	0.73898	0.76040	0.69606	0.67516	0.73915	0.72295	0.88428	0.89273
U5	15:17:14	0.69294	0.72349	0.73897	0.76039	0.69604	0.67515	0.73914	0.72292	0.88428	0.89274
U5	15:32:14	0.69293	0.72349	0.73895	0.76039	0.69603	0.67513	0.73913	0.72285	0.88426	0.89275
U5	15:44:10	0.69294	0.72350	0.73896	0.76039	0.69600	0.67513	0.73913	0.72287	0.88424	0.89278

Table F.13 continued

VIBRATING WIRE INSTRUMENT READINGS - TEMPERATURE

BKM 5 LOAD NUMBER	TIME	VW STRN TEMP DEG C 43	VW STRN TEMP DEG C 44	VW STRN TEMP DEG C 55	VW STRN TEMP DEG C 56	VW STRN TEMP DEG C 57	VW STRN TEMP DEG C 58	VW STRN TEMP DEG C 59	VW STRN TEMP DEG C 60	VW STRN TEMP DEG C 61	VW STRN TEMP DEG C 62
L0	11:03:19	-55.627	-55.627	-55.627	-55.627	-55.627	-55.627	-55.627	-55.627	-55.627	-55.627
L0	11:06:05	-55.627	-55.627	-55.627	-55.627	-55.627	-55.627	-55.627	-55.627	-55.627	-55.627
L0	11:06:33	-55.627	-55.627	-55.627	-55.627	-55.627	-55.627	-55.627	-55.627	-55.627	-55.627
L0	11:12:06	-55.627	-55.627	-55.627	-55.627	-55.627	-55.627	-55.627	-55.627	-55.627	-55.627
L0	11:13:27	-55.627	-55.627	-55.627	-55.627	-55.627	-55.627	-55.627	-55.627	-55.627	-55.627
L0	11:16:51	20.311	20.523	22.086	21.561	22.148	21.009	22.366	22.086	21.407	21.253
L0	11:20:09	20.311	20.522	22.086	21.560	22.148	21.009	22.397	22.086	21.407	21.253
L0	11:21:27	20.311	20.522	22.086	21.560	22.179	21.009	22.366	22.086	21.407	21.253
L0	11:30:11	20.310	20.522	22.086	21.560	22.148	21.008	22.397	22.086	21.406	21.253
L0	11:43:35	20.307	20.519	22.082	21.557	22.176	21.036	22.425	22.082	21.434	21.250
L0	11:45:06	20.307	20.519	22.082	21.557	22.176	21.005	22.394	22.082	21.434	21.250
L0	11:45:49	20.307	20.519	22.082	21.557	22.176	21.005	22.394	22.082	21.403	21.250
L0	12:00:49	20.303	20.514	22.077	21.552	22.171	21.031	22.389	22.077	21.429	21.245
L0	12:15:49	20.301	20.513	22.076	21.581	22.169	21.029	22.387	22.076	21.427	21.274
L0	12:26:18	20.301	20.512	22.075	21.581	22.168	21.029	22.386	22.106	21.427	21.274
L0	12:40:41	20.300	20.512	22.075	21.580	22.168	21.029	22.386	22.075	21.427	21.273
L1	12:43:09	20.300	20.512	22.075	21.580	22.168	21.029	22.386	22.075	21.427	21.273
L1	12:43:43	20.300	20.512	22.075	21.580	22.199	21.029	22.386	22.106	21.427	21.273
L1	12:44:43	20.300	20.512	22.106	21.580	22.168	21.029	22.386	22.106	21.427	21.273
L1	12:46:40	20.300	20.512	22.075	21.580	22.168	21.029	22.386	22.106	21.427	21.273
L2	12:48:52	20.300	20.512	22.075	21.580	22.168	21.029	22.386	22.106	21.427	21.273
L2	12:49:20	20.300	20.542	22.075	21.580	22.168	21.059	22.386	22.106	21.427	21.273
L2	12:50:21	20.300	20.512	22.075	21.580	22.168	21.029	22.417	22.106	21.427	21.273
L2	12:52:18	20.300	20.512	22.075	21.580	22.168	21.029	22.386	22.106	21.427	21.273
L3	12:54:09	20.300	20.512	22.075	21.580	22.199	21.029	22.386	22.106	21.427	21.273
L3	12:54:45	20.300	20.512	22.075	21.580	22.168	21.029	22.386	22.106	21.427	21.273
L3	12:55:43	20.330	20.512	22.075	21.580	22.168	21.029	22.386	22.106	21.427	21.273
L3	12:57:46	20.300	20.512	22.075	21.580	22.168	21.029	22.386	22.106	21.427	21.273
L4	12:59:51	20.300	20.512	22.075	21.580	22.168	21.029	22.386	22.106	21.427	21.273
L4	13:00:21	20.300	20.512	22.075	21.580	22.168	21.029	22.386	22.106	21.427	21.273
L4	13:01:24	20.330	20.512	22.075	21.580	22.168	21.029	22.386	22.106	21.427	21.273
L4	13:03:19	20.300	20.512	22.075	21.580	22.168	21.029	22.386	22.106	21.427	21.273
L5	13:05:06	20.300	20.512	22.075	21.580	22.168	21.029	22.386	22.106	21.427	21.273
L5	13:05:39	20.300	20.512	22.075	21.580	22.168	21.029	22.386	22.106	21.457	21.273
L5	13:06:36	20.300	20.512	22.075	21.580	22.168	21.029	22.386	22.137	21.427	21.273
L5	13:08:35	20.300	20.512	22.075	21.580	22.168	21.029	22.386	22.106	21.427	21.273
L6	13:09:59	20.330	20.512	22.075	21.580	22.168	21.029	22.417	22.106	21.427	21.273
L6	13:10:31	20.300	20.512	22.075	21.580	22.168	21.029	22.386	22.106	21.457	21.273
L6	13:11:31	20.330	20.510	22.073	21.578	22.166	21.027	22.384	22.104	21.425	21.271
L6	13:13:31	20.328	20.510	22.073	21.578	22.166	21.027	22.384	22.104	21.425	21.271
L7	13:15:14	20.299	20.510	22.073	21.579	22.166	21.027	22.384	22.104	21.425	21.272
L7	13:15:43	20.299	20.541	22.073	21.579	22.166	21.027	22.416	22.104	21.425	21.272
L7	13:16:46	20.299	20.510	22.073	21.579	22.198	21.027	22.384	22.104	21.425	21.272

Table F.13 continued

VIBRATING WIRE INSTRUMENT READINGS - TEMPERATURE

BKM 5 LOAD NUMBER	TIME	VW STRN TEMP DEG C 43	VW STRN TEMP DEG C 44	VW STRN TEMP DEG C 55	VW STRN TEMP DEG C 56	VW STRN TEMP DEG C 57	VW STRN TEMP DEG C 58	VW STRN TEMP DEG C 59	VW STRN TEMP DEG C 60	VW STRN TEMP DEG C 61	VW STRN TEMP DEG C 62
L7	13:18:45	20.329	20.511	22.074	21.579	22.167	21.027	22.385	22.105	21.425	21.272
L8	13:20:27	20.329	20.511	22.074	21.579	22.167	21.028	22.416	22.105	21.426	21.272
L8	13:20:57	20.329	20.511	22.074	21.579	22.167	21.028	22.416	22.105	21.456	21.272
L8	13:21:55	20.329	20.511	22.074	21.579	22.167	21.028	22.385	22.105	21.426	21.272
L8	13:23:57	20.330	20.541	22.074	21.580	22.167	21.028	22.385	22.105	21.426	21.272
L9	13:25:32	20.330	20.511	22.074	21.580	22.167	21.028	22.416	22.105	21.426	21.272
L9	13:26:06	20.299	20.511	22.074	21.578	22.165	21.026	22.383	22.103	21.424	21.271
L9	13:27:02	20.298	20.509	22.072	21.578	22.196	21.026	22.414	22.103	21.424	21.271
L9	13:29:01	20.328	20.509	22.072	21.578	22.164	21.025	22.413	22.102	21.423	21.269
L10	13:30:30	20.326	20.508	22.071	21.576	22.164	21.025	22.413	22.102	21.423	21.269
L10	13:31:03	20.326	20.508	22.102	21.576	22.164	21.025	22.413	22.102	21.423	21.269
L10	13:32:02	20.326	20.507	22.069	21.575	22.163	21.023	22.412	22.100	21.421	21.268
L10	13:34:00	20.295	20.507	22.069	21.575	22.163	21.023	22.381	22.100	21.421	21.268
L11	13:35:29	20.322	20.504	22.066	21.572	22.160	21.020	22.409	22.097	21.418	21.265
L11	13:36:00	20.322	20.504	22.066	21.572	22.160	21.020	22.409	22.097	21.418	21.265
L11	13:37:00	20.322	20.534	22.066	21.572	22.160	21.020	22.409	22.097	21.418	21.296
L11	13:39:03	20.290	20.501	22.064	21.570	22.157	21.018	22.375	22.095	21.416	21.263
L12	13:40:25	20.290	20.532	22.064	21.570	22.157	21.018	22.406	22.095	21.416	21.263
L12	13:40:57	20.290	20.502	22.064	21.570	22.157	21.018	22.406	22.095	21.416	21.263
L12	13:41:55	20.320	20.502	22.064	21.570	22.157	21.018	22.406	22.095	21.416	21.263
L12	13:43:57	20.318	20.500	22.062	21.568	22.155	21.016	22.404	22.093	21.414	21.261
L13	13:45:17	20.288	20.500	22.062	21.568	22.155	21.016	22.404	22.093	21.414	21.261
L13	13:45:46	20.288	20.500	22.062	21.568	22.155	21.016	22.404	22.093	21.414	21.261
L13	13:46:46	20.317	20.498	22.061	21.566	22.154	21.015	22.403	22.092	21.413	21.259
L13	13:48:48	20.317	20.498	22.061	21.566	22.154	21.015	22.403	22.092	21.413	21.259
L14	13:50:26	20.316	20.497	22.059	21.565	22.152	21.014	22.401	22.090	21.411	21.258
L14	13:50:58	20.316	20.497	22.059	21.565	22.152	21.014	22.401	22.090	21.411	21.258
L14	13:51:56	20.316	20.497	22.059	21.565	22.152	21.014	22.401	22.090	21.411	21.258
L14	13:53:54	20.315	20.496	22.058	21.564	22.182	21.013	22.400	22.089	21.441	21.257
L15	13:55:15	20.285	20.496	22.058	21.564	22.182	21.013	22.400	22.120	21.410	21.256
L15	13:55:43	20.284	20.495	22.057	21.563	22.182	21.012	22.400	22.089	21.410	21.256
L15	13:56:42	20.314	20.495	22.057	21.563	22.151	21.012	22.400	22.120	21.410	21.256
L15	13:58:43	20.283	20.495	22.057	21.563	22.150	21.011	22.399	22.088	21.409	21.256
L16	14:00:03	20.283	20.495	22.057	21.563	22.181	21.011	22.399	22.088	21.409	21.256
L16	14:00:33	20.313	20.495	22.057	21.563	22.150	21.011	22.399	22.088	21.409	21.256
L16	14:01:34	20.313	20.494	22.056	21.562	22.212	21.041	22.398	22.087	21.439	21.255
L16	14:03:39	20.313	20.494	22.056	21.562	22.180	21.011	22.398	22.087	21.408	21.255
L17	14:05:05	20.312	20.494	22.056	21.562	22.211	21.010	22.398	22.087	21.408	21.255
L17	14:05:37	20.312	20.494	22.056	21.562	22.180	21.010	22.398	22.087	21.408	21.255
L17	14:06:36	20.312	20.494	22.056	21.562	22.180	21.010	22.398	22.087	21.408	21.255
L17A	14:13:44	20.281	20.493	22.055	21.561	22.179	21.010	22.397	22.086	21.407	21.254
U1	14:16:48	20.312	20.523	22.055	21.561	22.179	21.009	22.397	22.086	21.407	21.284
U3	14:25:36	20.281	20.493	22.055	21.560	22.148	21.009	22.397	22.086	21.407	21.253

Table F.13 continued

VIBRATING WIRE INSTRUMENT READINGS - TEMPERATURE

BKM 5 LOAD NUMBER	TIME	VW STRN TEMP DEG C 43	VW STRN TEMP DEG C 44	VW STRN TEMP DEG C 55	VW STRN TEMP DEG C 56	VW STRN TEMP DEG C 57	VW STRN TEMP DEG C 58	VW STRN TEMP DEG C 59	VW STRN TEMP DEG C 60	VW STRN TEMP DEG C 61	VW STRN TEMP DEG C 62
U4	14:29:18	20.281	20.493	22.054	21.560	22.179	21.009	22.397	22.086	21.407	21.253
U4A	14:32:14	20.281	20.492	22.054	21.560	22.179	21.009	22.397	22.085	21.407	21.253
U5	14:47:14	20.281	20.492	22.054	21.560	22.178	21.009	22.396	22.085	21.406	21.253
U5	15:02:14	20.281	20.492	22.054	21.560	22.147	21.009	22.396	22.085	21.406	21.253
U5	15:17:14	20.281	20.492	22.054	21.560	22.147	21.009	22.396	22.085	21.406	21.253
U5	15:32:14	20.287	20.469	22.061	21.568	22.155	21.016	22.373	22.093	21.414	21.261
U5	15:44:10	20.291	20.473	22.066	21.571	22.159	21.020	22.377	22.128	21.417	21.264

Table F.13 continued

VIBRATING WIRE CALCULATED STRAIN INCREMENTS

BKM 5 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 43	VW STRN MICRO STRAIN 44	VW STRN MICRO STRAIN 55	VW STRN MICRO STRAIN 56	VW STRN MICRO STRAIN 57	VW STRN MICRO STRAIN 58	VW STRN MICRO STRAIN 59	VW STRN MICRO STRAIN 60	VW STRN MICRO STRAIN 61	VW STRN MICRO STRAIN 62
L0	11:03:19	98.7	99.1	100.7	100.3	101.2	99.7	101.3	101.2	100.2	100.4
L0	11:06:05	98.7	99.2	100.7	100.3	101.1	99.7	101.3	101.1	100.2	100.5
L0	11:06:33	98.7	99.2	100.7	100.3	101.1	99.7	101.3	101.1	100.2	100.4
L0	11:12:06	98.7	100.0	100.7	100.3	101.2	99.7	101.3	101.2	100.2	100.4
L0	11:13:27	98.7	99.0	100.7	100.3	101.1	99.7	101.3	101.1	100.2	100.5
L0	11:16:51	-0.0	0.2	-0.3	-0.0	0.1	0.0	-0.1	0.1	0.1	0.6
L0	11:20:09	-0.0	0.1	-0.2	-0.0	0.0	0.1	-0.1	0.1	0.1	0.5
L0	11:21:27	-0.0	0.1	-0.1	-0.0	-0.1	0.1	-0.1	0.1	0.0	0.6
L0	11:30:11	-0.0	0.2	-0.0	-0.0	0.1	0.1	-0.0	0.1	0.1	0.6
L0	11:43:35	-0.0	1.1	-0.3	-0.0	-0.1	-0.0	-0.2	0.1	0.0	0.6
L0	11:45:06	-0.0	1.1	-0.3	-0.0	-0.0	0.1	-0.1	0.1	-0.0	0.7
L0	11:45:49	-0.0	0.0	-0.3	-0.0	-0.0	0.0	-0.1	0.1	0.1	0.6
L0	12:00:49	-0.0	-0.1	-0.0	0.0	-0.0	-0.0	-0.1	0.1	-0.0	0.5
L0	12:15:49	0.1	0.1	-0.2	0.1	0.1	0.1	-0.1	0.1	0.1	0.4
L0	12:26:18	0.1	-0.0	-0.2	0.0	0.1	0.1	-0.1	0.1	0.1	0.6
L0	12:40:41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
L1	12:43:09	0.1	0.5	0.3	0.2	0.6	0.1	-0.0	0.9	0.2	0.7
L1	12:43:43	0.1	0.5	0.1	0.2	0.5	0.1	0.0	0.8	0.1	0.8
L1	12:44:43	0.1	0.4	-0.0	0.2	0.6	0.2	0.0	0.8	0.1	0.7
L1	12:46:40	0.1	0.4	0.4	0.2	0.5	0.2	-0.0	0.7	0.1	0.7
L2	12:48:52	0.3	1.0	0.7	0.6	1.9	0.6	0.3	2.3	0.8	1.8
L2	12:49:20	0.3	1.0	0.8	0.6	1.9	0.6	0.4	2.3	0.8	1.8
L2	12:50:21	0.2	1.0	0.8	0.6	2.0	0.6	0.3	2.3	0.8	1.9
L2	12:52:18	0.3	1.0	0.8	0.6	2.0	0.6	0.4	2.3	0.9	1.8
L3	12:54:09	0.5	1.5	1.8	1.2	4.1	2.0	2.4	4.7	3.5	3.6
L3	12:54:45	0.5	1.5	1.8	1.2	4.1	2.0	2.5	4.8	3.7	3.7
L3	12:55:43	0.5	1.5	1.8	1.2	1.6	2.1	2.5	4.8	3.7	3.7
L3	12:57:46	0.5	1.5	1.8	1.2	1.8	2.1	2.5	4.8	3.7	3.6
L4	12:59:51	0.8	1.7	2.8	1.9	5.0	2.7	4.6	6.7	3.3	5.3
L4	13:00:21	0.9	1.7	2.6	1.9	4.9	2.8	4.6	6.9	3.3	5.3
L4	13:01:24	0.8	1.8	2.8	1.9	4.9	2.7	4.5	6.6	3.4	5.4
L4	13:03:19	0.9	1.7	2.9	2.0	4.9	2.7	4.6	6.6	3.4	5.2
L5	13:05:06	1.2	2.1	3.9	2.8	5.3	4.6	5.2	6.1	6.6	7.1
L5	13:05:39	1.2	2.1	4.0	2.8	5.3	4.6	5.3	6.2	6.7	7.3
L5	13:06:36	1.1	2.1	3.8	2.8	5.4	4.4	5.3	6.1	6.8	7.1
L5	13:08:35	1.2	2.2	4.0	2.9	5.5	4.6	5.4	6.2	6.8	7.4
L6	13:09:59	1.5	2.7	5.3	3.8	7.1	5.6	7.8	8.3	8.7	9.4
L6	13:10:31	1.6	2.8	5.3	3.9	7.1	5.6	8.0	8.4	8.7	9.4
L6	13:11:31	1.5	2.7	5.3	3.9	7.2	5.7	8.0	8.5	8.7	9.4
L6	13:13:31	1.5	2.8	5.4	3.4	7.4	5.7	8.1	8.6	8.7	9.4
L7	13:15:14	2.0	3.6	6.8	5.7	9.1	7.6	10.0	11.4	11.4	10.6
L7	13:15:43	2.0	3.6	6.9	5.8	8.9	7.6	10.0	11.4	11.0	10.6
L7	13:16:46	2.0	3.7	7.0	5.9	9.2	7.8	10.2	12.0	11.4	10.6

Table F.13 continued

VIBRATING WIRE CALCULATED STRAIN INCREMENTS

BKM 5 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 43	VW STRN MICRO STRAIN 44	VW STRN MICRO STRAIN 55	VW STRN MICRO STRAIN 56	VW STRN MICRO STRAIN 57	VW STRN MICRO STRAIN 58	VW STRN MICRO STRAIN 59	VW STRN MICRO STRAIN 60	VW STRN MICRO STRAIN 61	VW STRN MICRO STRAIN 62
L7	13:18:45	2.1	3.9	7.1	5.9	9.5	7.9	10.2	12.1	11.1	10.5
L8	13:20:27	2.8	4.9	8.4	7.1	10.0	9.0	11.1	10.9	11.1	12.7
L8	13:20:57	2.9	5.0	8.4	7.1	10.1	8.9	11.2	11.0	11.1	12.7
L8	13:21:55	2.9	5.1	8.5	7.2	10.3	9.0	11.3	11.2	11.1	12.8
L8	13:23:57	2.9	5.1	8.6	7.2	10.5	9.0	11.4	11.2	11.2	12.8
L9	13:25:32	3.7	4.5	9.8	8.3	12.5	10.6	13.4	13.4	13.5	12.6
L9	13:26:06	3.7	4.6	9.9	8.3	12.7	10.6	13.5	13.4	13.5	12.6
L9	13:27:02	3.8	4.9	9.9	8.5	12.9	10.7	13.6	13.6	13.5	12.6
L9	13:29:01	3.7	6.2	10.0	8.5	13.0	10.7	13.6	13.7	13.6	12.7
L10	13:30:30	3.5	6.6	11.2	9.8	12.9	12.0	15.4	14.6	15.7	14.1
L10	13:31:03	3.6	6.6	11.3	9.8	13.1	12.1	15.5	14.8	15.8	14.5
L10	13:32:02	3.6	6.7	11.4	9.9	13.2	12.2	15.6	15.0	15.9	14.7
L10	13:34:00	3.6	6.8	11.5	10.0	13.5	12.2	15.6	15.1	16.1	14.9
L11	13:35:29	3.3	7.5	12.4	11.0	15.5	13.6	17.0	15.3	17.3	17.1
L11	13:36:00	3.1	7.5	12.3	11.1	15.6	13.7	16.9	15.3	17.1	16.9
L11	13:37:00	3.3	7.5	12.4	11.1	15.8	13.7	17.2	15.3	17.2	17.2
L11	13:39:03	3.3	7.5	12.7	11.2	15.9	13.7	17.1	15.3	17.5	17.4
L12	13:40:25	2.9	8.2	14.6	12.5	18.1	15.0	18.9	17.7	18.8	18.1
L12	13:40:57	2.9	8.3	14.7	12.6	18.1	15.1	18.9	17.8	18.8	18.3
L12	13:41:55	2.9	8.4	14.7	12.7	18.3	15.1	18.9	17.9	18.8	18.3
L12	13:43:57	3.0	8.5	14.9	12.7	18.4	15.2	19.0	18.0	19.0	18.5
L13	13:45:17	2.9	9.1	15.8	13.2	18.7	16.0	20.8	19.5	20.9	20.4
L13	13:45:46	3.0	9.1	15.9	13.3	18.8	16.1	20.9	19.5	21.0	20.5
L13	13:46:46	2.9	9.2	16.0	13.3	18.9	15.7	20.8	19.5	21.0	20.6
L13	13:48:48	3.0	9.2	16.1	13.5	19.1	15.8	20.9	19.5	21.0	20.6
L14	13:50:26	2.9	9.5	17.2	14.3	21.1	17.5	22.2	21.3	23.3	21.2
L14	13:50:58	2.9	9.5	17.4	14.4	21.5	17.5	22.2	21.4	23.3	21.1
L14	13:51:56	3.0	9.6	17.4	14.5	21.8	17.5	22.4	21.4	24.4	21.2
L14	13:53:54	2.9	9.6	17.5	14.7	22.1	17.5	22.6	21.5	23.8	21.2
L15	13:55:15	2.9	9.8	18.1	15.9	22.9	18.3	24.0	21.1	24.1	22.5
L15	13:55:43	2.9	9.9	18.1	15.9	22.9	18.2	24.0	21.0	23.8	22.3
L15	13:56:42	2.9	9.9	18.3	16.0	23.2	18.4	24.2	21.1	24.1	22.6
L15	13:58:43	3.0	9.8	18.8	16.1	23.4	18.4	24.4	21.1	24.2	22.6
L16	14:00:03	3.0	10.0	20.0	16.2	24.1	19.1	25.4	22.2	27.1	24.5
L16	14:00:33	3.0	9.9	20.0	16.2	24.2	19.1	25.4	22.0	27.2	24.7
L16	14:01:34	2.9	10.0	20.1	16.3	24.2	19.0	25.4	22.0	27.3	24.8
L16	14:03:39	2.9	10.0	20.1	16.1	24.3	18.9	25.5	21.8	28.2	26.3
L17	14:05:05	3.0	11.8	20.5	15.8	24.6	18.9	26.4	21.7	30.1	25.9
L17	14:05:37	2.9	12.2	20.7	15.8	24.9	18.8	26.5	21.4	30.2	26.3
L17	14:06:36	3.0	12.0	20.9	15.6	25.3	18.2	26.9	21.0	30.4	26.3
L17A	14:13:44	3.0	10.8	21.8	15.9	27.2	17.6	28.2	21.2	30.9	26.0
U1	14:16:48	3.2	10.6	21.5	15.6	25.5	17.5	27.5	22.0	29.6	26.2
U3	14:25:36	-0.9	2.4	3.8	1.1	7.7	-0.2	5.6	3.3	3.2	4.6

Table F.13 continued

VIBRATING WIRE CALCULATED STRAIN INCREMENTS

BKM 5 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 43	VW STRN MICRO STRAIN 44	VW STRN MICRO STRAIN 55	VW STRN MICRO STRAIN 56	VW STRN MICRO STRAIN 57	VW STRN MICRO STRAIN 58	VW STRN MICRO STRAIN 59	VW STRN MICRO STRAIN 60	VW STRN MICRO STRAIN 61	VW STRN MICRO STRAIN 62
U4	14:29:18	-2.0	1.0	-0.8	-2.1	2.7	-3.6	-0.2	1.4	-1.1	0.5
U4A	14:32:14	-2.0	1.1	-0.9	-2.3	2.1	-3.6	-0.3	1.2	-1.0	0.5
	14:47:14	-2.1	0.9	-1.0	-2.4	1.4	-3.4	-0.4	1.3	-1.1	0.5
	15:02:14	-2.1	0.9	-1.0	-2.4	1.5	-3.3	-0.3	1.6	-1.0	0.5
	15:17:14	-2.1	0.9	-1.0	-2.4	1.6	-3.3	-0.3	1.7	-1.0	0.5
	15:32:14	-2.1	0.9	-0.9	-2.4	1.6	-3.2	-0.2	1.9	-1.0	0.4
	15:44:10	-2.1	0.9	-0.9	-2.4	1.7	-3.2	-0.3	1.8	-0.9	0.3

Table F.13 continued

VIBRATING WIRE CALCULATED STRAIN (4 MINUTE READINGS)

BKM 5 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 43	VW STRN MICRO STRAIN 44	VW STRN MICRO STRAIN 55	VW STRN MICRO STRAIN 56	VW STRN MICRO STRAIN 57	VW STRN MICRO STRAIN 58	VW STRN MICRO STRAIN 59	VW STRN MICRO STRAIN 60	VW STRN MICRO STRAIN 61	VW STRN MICRO STRAIN 62
L0	12:40:41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
L1	12:46:40	0.1	0.4	0.4	0.2	0.5	0.2	-0.0	0.7	0.1	0.7
L2	12:52:18	0.3	1.0	0.8	0.6	2.0	0.6	0.4	2.3	0.9	1.8
L3	12:57:46	0.5	1.5	1.8	1.2	1.8	2.1	2.5	4.8	3.7	3.6
L4	13:03:19	0.9	1.7	2.9	2.0	4.9	2.7	4.6	6.6	3.4	5.2
L5	13:08:35	1.2	2.2	4.0	2.9	5.5	4.6	5.4	6.2	6.8	7.4
L6	13:13:31	1.5	2.8	5.4	3.4	7.4	5.7	8.1	8.6	8.7	9.4
L7	13:18:45	2.1	3.9	7.1	5.9	9.5	7.9	10.2	12.1	11.1	10.5
L8	13:23:57	2.9	5.1	8.6	7.2	10.5	9.0	11.4	11.2	11.2	12.8
L9	13:29:01	3.7	6.2	10.0	8.5	13.0	10.7	13.6	13.7	13.6	12.7
L10	13:34:00	3.6	6.8	11.5	10.0	13.5	12.2	15.6	15.1	16.1	14.9
L11	13:39:03	3.3	7.5	12.7	11.2	15.9	13.7	17.1	15.3	17.5	17.4
L12	13:43:57	3.0	8.5	14.9	12.7	18.4	15.2	19.0	18.0	19.0	18.5
L13	13:48:48	3.0	9.2	16.1	13.5	19.1	15.8	20.9	19.5	21.0	20.6
L14	13:53:54	2.9	9.6	17.5	14.7	22.1	17.5	22.6	21.5	23.8	21.2
L15	13:58:43	3.0	9.8	18.8	16.1	23.4	18.4	24.4	21.1	24.2	22.6
L16	14:03:39	2.9	10.0	20.1	16.1	24.3	18.9	25.5	21.8	28.2	26.3
L17	14:06:36	3.0	12.0	20.9	15.6	25.3	18.2	26.9	21.0	30.4	26.3
L17A	14:13:44	3.0	10.8	21.8	15.9	27.2	17.6	28.2	21.2	30.9	26.0
U1	14:16:48	3.2	10.6	21.5	15.6	25.5	17.5	27.5	22.0	29.6	26.2
U3	14:25:36	-0.9	2.4	3.8	1.1	7.7	-0.2	5.6	3.3	3.2	4.6
U4	14:29:18	-2.0	1.0	-0.8	-2.1	2.7	-3.6	-0.2	1.4	-1.1	0.5
U4A	14:32:14	-2.0	1.1	-0.9	-2.3	2.1	-3.6	-0.3	1.2	-1.0	0.5

Table F.13 continued

AVERAGE STRAIN AT EACH GAGE LEVEL, INTEGRATED PILE COMPRESSION & COMPARISON WITH TELLTALE MEASUREMENT (4 MINUTE READINGS)

BKM 5 LOAD NUMBER	AVG VW MICRO STRAIN SURFACE	AVG VW MICRO STRAIN 43+44	AVG VW MICRO STRAIN 55+56	AVG VW MICRO STRAIN 57+58	AVG VW MICRO STRAIN 59+60	AVG VW MICRO STRAIN 61+62	EST'D. MICRO STRAIN CELL TOP	PILE COMPRESSION SG MSMT. INCHES	TT MSMT. INCHES	ABS.DIFF. SG-TT INCHES
L0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0000	0.0000	0.0000
L1	0.0	0.3	0.3	0.3	0.3	0.4	0.9	0.0001	0.0001	0.0000
L2	0.0	0.6	0.7	1.3	1.3	1.3	2.0	0.0003	0.0002	0.0002
L3	0.0	1.0	1.5	1.9	3.7	3.7	4.3	0.0007	0.0005	0.0002
L4	0.0	1.3	2.4	3.8	5.6	4.3	5.4	0.0010	0.0007	0.0003
L5	0.0	1.7	3.4	5.0	5.8	7.1	8.0	0.0013	0.0011	0.0002
L6	0.0	2.2	4.4	6.6	8.3	9.0	10.0	0.0018	0.0015	0.0003
L7	0.0	3.0	6.5	8.7	11.2	10.8	11.9	0.0024	0.0019	0.0005
L8	0.0	4.0	7.9	9.7	11.3	12.0	13.4	0.0027	0.0023	0.0004
L9	0.0	5.0	9.3	11.9	13.7	13.1	14.9	0.0032	0.0028	0.0004
L10	0.0	5.2	10.7	12.8	15.4	15.5	17.2	0.0036	0.0031	0.0005
L11	0.0	5.4	12.0	14.8	16.2	17.4	19.2	0.0039	0.0036	0.0003
L12	0.0	5.7	13.8	16.8	18.5	18.7	20.8	0.0044	0.0039	0.0005
L13	0.0	6.1	14.8	17.4	20.2	20.8	22.9	0.0047	0.0044	0.0004
L14	0.0	6.2	16.1	19.8	22.0	22.5	24.7	0.0052	0.0048	0.0004
L15	0.0	6.4	17.5	20.9	22.7	23.4	26.0	0.0055	0.0049	0.0005
L16	0.0	6.4	18.1	21.6	23.6	27.3	29.2	0.0058	0.0054	0.0003
L17	0.0	7.5	18.2	21.7	24.0	28.3	30.6	0.0059	0.0057	0.0002
L17A	0.0	6.9	18.9	22.4	24.7	28.4	30.7	0.0060	0.0059	0.0002
U1	0.0	6.9	18.5	21.5	24.8	27.9	30.0	0.0059	0.0058	0.0001
U3	0.0	0.8	2.4	3.7	4.5	3.9	11.9	0.0009	0.0052	-0.0042
U4	0.0	-0.5	-1.5	-0.5	0.6	-0.3	1.0	-0.0001	0.0015	-0.0017
U4A	0.0	-0.5	-1.6	-0.7	0.4	-0.3	-0.2	-0.0002	0.0007	-0.0009
ELEV. FT	14.22	8.17	2.17	-3.83	-8.83	-14.33	-14.83			

Table F.13 continued

VIBRATING WIRE CALCULATED AVERAGE LOADS (4 MINUTE READINGS)

LA = 5.50 ft ACA = 317.115 si
LB = 1.38 ft ACB = 313.155 si
B = 18.00 in ASA = 3.538 si
ES = 27500.0 ksi ASB = 7.498 si

BKM 5 LOAD NUMBER	AVG VW LOAD TONS SURFACE	AVG VW LOAD TONS 43+44	AVG VW LOAD TONS 55+56	AVG VW LOAD TONS 57+58	AVG VW LOAD TONS 59+60	AVG VW LOAD TONS 61+62	OSTERBERG LOAD TONS BOTTOM	INCR. PILE MODULUS KSI	CALC. PILE A MODULUS KSI	CALC. PILE B MODULUS KSI
L0	0.0	0.00	0.00	0.00	0.00	0.00	0.0		4412.9	4697.7
L1	0.0	0.20	0.22	0.24	0.25	0.30	1.3	20039.6	4412.9	4697.7
L2	0.0	0.44	0.47	0.93	0.95	1.01	2.4	7362.3	4412.9	4697.7
L3	0.0	0.70	1.09	1.38	2.64	2.78	4.1	4450.8	4412.9	4697.7
L4	0.0	0.92	1.74	2.72	4.00	3.28	5.6	14620.5	4412.9	4697.7
L5	0.0	1.20	2.44	3.60	4.13	5.41	7.3	3651.5	4412.9	4697.7
L6	0.0	1.57	3.16	4.70	5.95	6.88	8.9	5238.3	4412.9	4697.7
L7	0.0	2.12	4.67	6.23	7.98	8.24	10.6	5659.3	4412.9	4697.7
L8	0.0	2.85	5.67	6.97	8.09	9.10	12.1	8308.4	4412.9	4697.7
L9	0.0	3.57	6.62	8.48	9.79	9.99	13.7	8639.5	4412.9	4697.7
L10	0.0	3.71	7.66	9.18	10.99	11.77	15.3	4257.6	4412.9	4697.7
L11	0.0	3.85	8.55	10.57	11.58	13.26	17.0	5097.2	4412.9	4697.7
L12	0.0	4.11	9.86	12.00	13.26	14.26	18.6	7606.2	4412.9	4697.7
L13	0.0	4.36	10.57	12.46	14.45	15.85	20.1	4448.5	4412.9	4697.7
L14	0.0	4.46	11.53	14.17	15.75	17.15	21.7	5822.9	4412.9	4697.7
L15	0.0	4.57	12.48	14.94	16.25	17.81	23.3	11444.5	4412.9	4697.7
L16	0.0	4.60	12.97	15.46	16.89	20.75	24.9	2551.2	4412.9	4697.7
L17	0.0	5.38	13.04	15.53	17.14	21.57	26.4	8577.3	4412.9	4697.7
L17A	0.0	4.92	13.48	16.02	17.68	21.64	26.4		4412.9	4697.7
U1	0.0	4.91	13.26	15.36	17.72	21.21	25.7		4412.9	4697.7
U3	0.0	0.54	1.74	2.66	3.19	2.96	19.7		4412.9	4697.7
U4	0.0	-0.37	-1.06	-0.33	0.40	-0.26	2.5		4412.9	4697.7
U4A	0.0	-0.34	-1.14	-0.52	0.30	-0.19	0.0		4412.9	4697.7

ELEV. FT	14.22	8.17	2.17	-3.83	-8.83	-14.33	-15.71	4201.9 KSI = CONCRETE MODULUS

Table F.13 continued

INTEGRATED MOVEMENT AT VW STRAIN GAGE (4 MINUTE READINGS)

BKM 5 LOAD NUMBER	VW MOVEMENT INCHES SURFACE	VW MOVEMENT INCHES 43+44	VW MOVEMENT INCHES 55+56	VW MOVEMENT INCHES 57+58	VW MOVEMENT INCHES 59+60	VW MOVEMENT INCHES 61+62	VW MOVEMENT INCHES CELL TOP
L0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L1	-0.0000	-0.0000	0.0000	0.0000	0.0000	0.0001	0.0001
L2	-0.0002	-0.0001	-0.0001	-0.0000	0.0001	0.0001	0.0002
L3	-0.0002	-0.0002	-0.0001	0.0001	0.0002	0.0005	0.0005
L4	0.0047	0.0047	0.0049	0.0051	0.0054	0.0057	0.0057
L5	0.0048	0.0048	0.0050	0.0053	0.0056	0.0061	0.0061
L6	0.0097	0.0098	0.0100	0.0104	0.0109	0.0115	0.0115
L7	0.0095	0.0096	0.0100	0.0105	0.0111	0.0118	0.0119
L8	0.0096	0.0098	0.0102	0.0108	0.0115	0.0122	0.0123
L9	0.0146	0.0148	0.0153	0.0160	0.0168	0.0177	0.0178
L10	0.0245	0.0247	0.0252	0.0261	0.0269	0.0280	0.0281
L11	0.0297	0.0299	0.0305	0.0314	0.0324	0.0335	0.0336
L12	0.0295	0.0297	0.0304	0.0315	0.0326	0.0338	0.0339
L13	0.0396	0.0399	0.0406	0.0418	0.0429	0.0443	0.0444
L14	0.0496	0.0498	0.0506	0.0519	0.0532	0.0546	0.0548
L15	0.0545	0.0547	0.0555	0.0569	0.0582	0.0598	0.0599
L16	0.0697	0.0699	0.0708	0.0722	0.0736	0.0753	0.0754
L17	0.2198	0.2201	0.2210	0.2224	0.2238	0.2255	0.2257
L17A	0.5498	0.5501	0.5510	0.5525	0.5539	0.5557	0.5559
U1	0.5499	0.5502	0.5511	0.5525	0.5539	0.5557	0.5558
U3	0.5542	0.5542	0.5544	0.5546	0.5548	0.5551	0.5552
U4	0.5217	0.5217	0.5216	0.5215	0.5215	0.5215	0.5215
U4A	0.5009	0.5009	0.5008	0.5008	0.5007	0.5008	0.5008

Table F.13 continued

INTEGRATED MOVEMENT AT SEGMENT CL (4 MINUTE READINGS)

BKM 5 LOAD NUMBER CL.ELEV.	AVG VW MOVEMENT INCHES 11.20	AVG VW MOVEMENT INCHES 5.17	AVG VW MOVEMENT INCHES -0.83	AVG VW MOVEMENT INCHES -6.33	AVG VW MOVEMENT INCHES -11.58
L0	0.0000	0.0000	0.0000	0.0000	0.0000
L1	0.0000	0.0000	0.0000	0.0000	0.0001
L2	0.0000	0.0000	0.0000	0.0000	0.0001
L3	0.0000	0.0000	0.0000	0.0001	0.0004
L4	0.0047	0.0048	0.0050	0.0052	0.0056
L5	0.0048	0.0049	0.0052	0.0055	0.0058
L6	0.0098	0.0099	0.0102	0.0107	0.0112
L7	0.0096	0.0098	0.0102	0.0108	0.0115
L8	0.0097	0.0100	0.0105	0.0111	0.0118
L9	0.0147	0.0150	0.0156	0.0164	0.0172
L10	0.0246	0.0250	0.0257	0.0265	0.0274
L11	0.0298	0.0302	0.0310	0.0319	0.0329
L12	0.0296	0.0300	0.0309	0.0320	0.0332
L13	0.0398	0.0402	0.0412	0.0423	0.0436
L14	0.0497	0.0502	0.0513	0.0525	0.0539
L15	0.0546	0.0551	0.0562	0.0576	0.0590
L16	0.0698	0.0703	0.0715	0.0729	0.0744
L17	0.2199	0.2205	0.2217	0.2231	0.2247
L17A	0.5500	0.5506	0.5518	0.5532	0.5548
U1	0.5500	0.5506	0.5518	0.5532	0.5548
U3	0.5542	0.5543	0.5545	0.5547	0.5550
U4	0.5217	0.5216	0.5215	0.5215	0.5215
U4A	0.5009	0.5009	0.5008	0.5008	0.5007

Table F.13 continued

AVERAGE SEGMENT SHEAR STRESS (4 MINUTE READINGS)

BKM 5 LOAD NUMBER CL.ELEV.	AVG VW SHEAR TSF 11.20	AVG VW SHEAR TSF 5.17	AVG VW SHEAR TSF -0.83	AVG VW SHEAR TSF -6.33	AVG VW SHEAR TSF -11.58
L0	-0.016	-0.016	-0.016	-0.016	-0.016
L1	-0.011	-0.016	-0.016	-0.016	-0.015
L2	-0.004	-0.015	-0.004	-0.016	-0.015
L3	0.003	-0.006	-0.008	0.026	-0.012
L4	0.009	0.006	0.011	0.026	-0.038
L5	0.017	0.018	0.016	0.001	0.022
L6	0.027	0.028	0.027	0.025	0.012
L7	0.042	0.054	0.027	0.042	-0.009
L8	0.062	0.062	0.020	0.021	0.014
L9	0.082	0.068	0.035	0.027	-0.010
L10	0.086	0.093	0.026	0.044	0.007
L11	0.090	0.114	0.040	0.017	0.034
L12	0.097	0.143	0.043	0.026	0.014
L13	0.104	0.156	0.036	0.050	0.026
L14	0.107	0.180	0.057	0.036	0.026
L15	0.110	0.203	0.052	0.027	0.031
L16	0.110	0.216	0.053	0.031	0.101
L17	0.132	0.197	0.053	0.037	0.118
L17A	0.119	0.221	0.054	0.039	0.104
U1	0.119	0.215	0.042	0.062	0.090
U3	-0.002	0.017	0.009	0.001	-0.023
U4	-0.027	-0.035	0.004	0.008	-0.036
U4A	-0.026	-0.039	0.001	0.011	-0.031

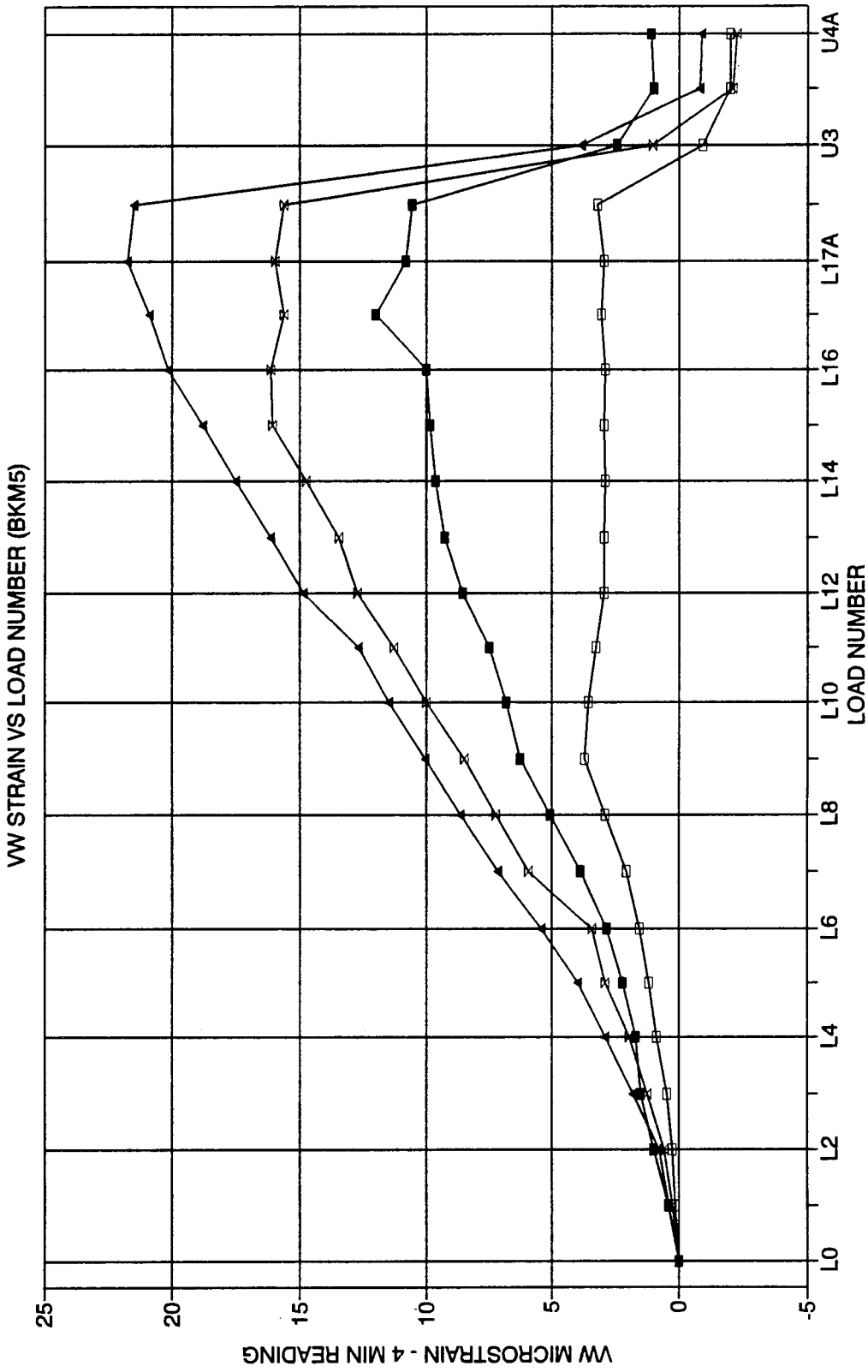

Figure F.59 Strain at Pile Top: Buckman Load Test 5

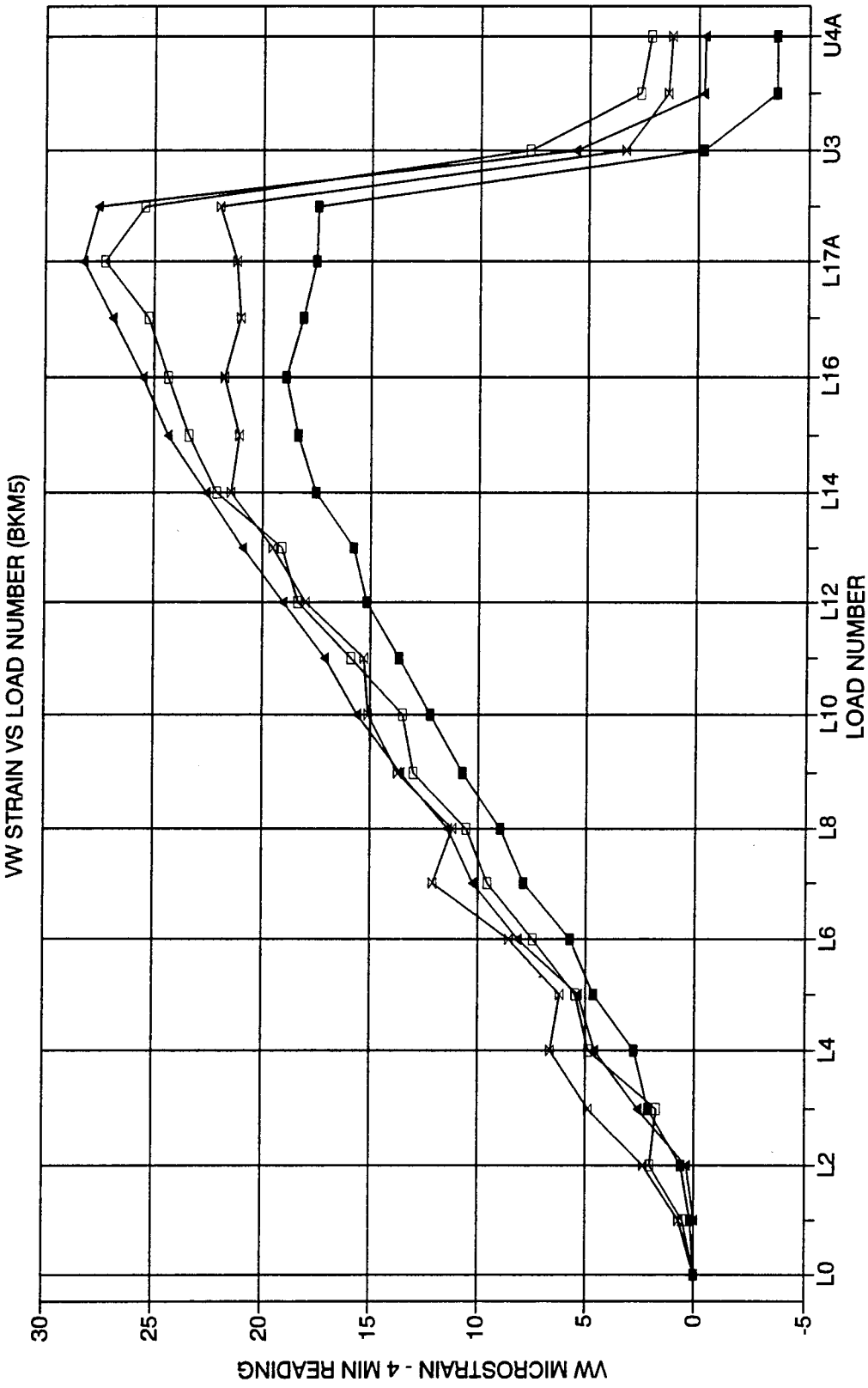

Figure F.60 Strain at Pile Middle: Buckman Load Test 5

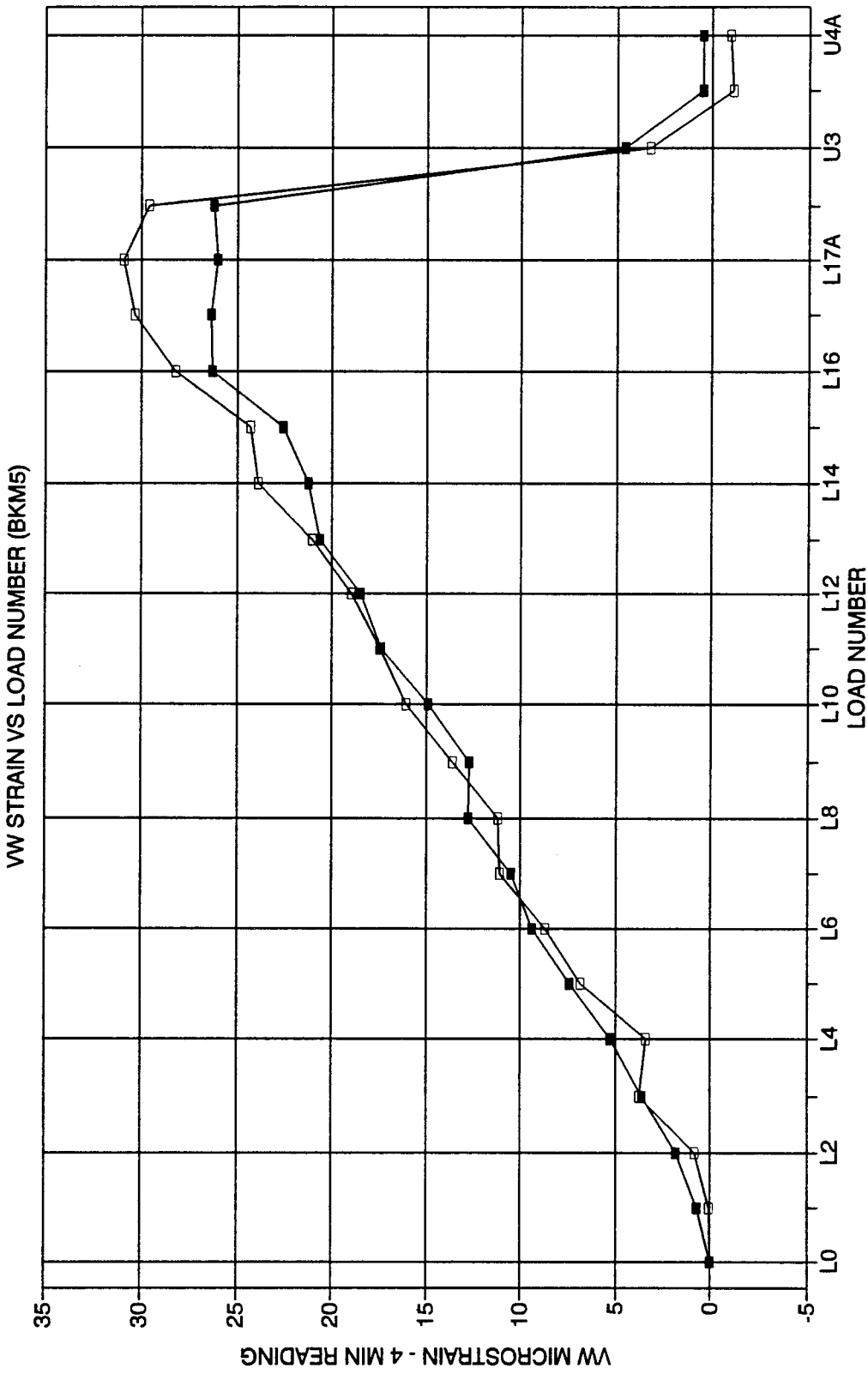

Figure F.61 Strain at Pile Bottom: Buckman Load Test 5

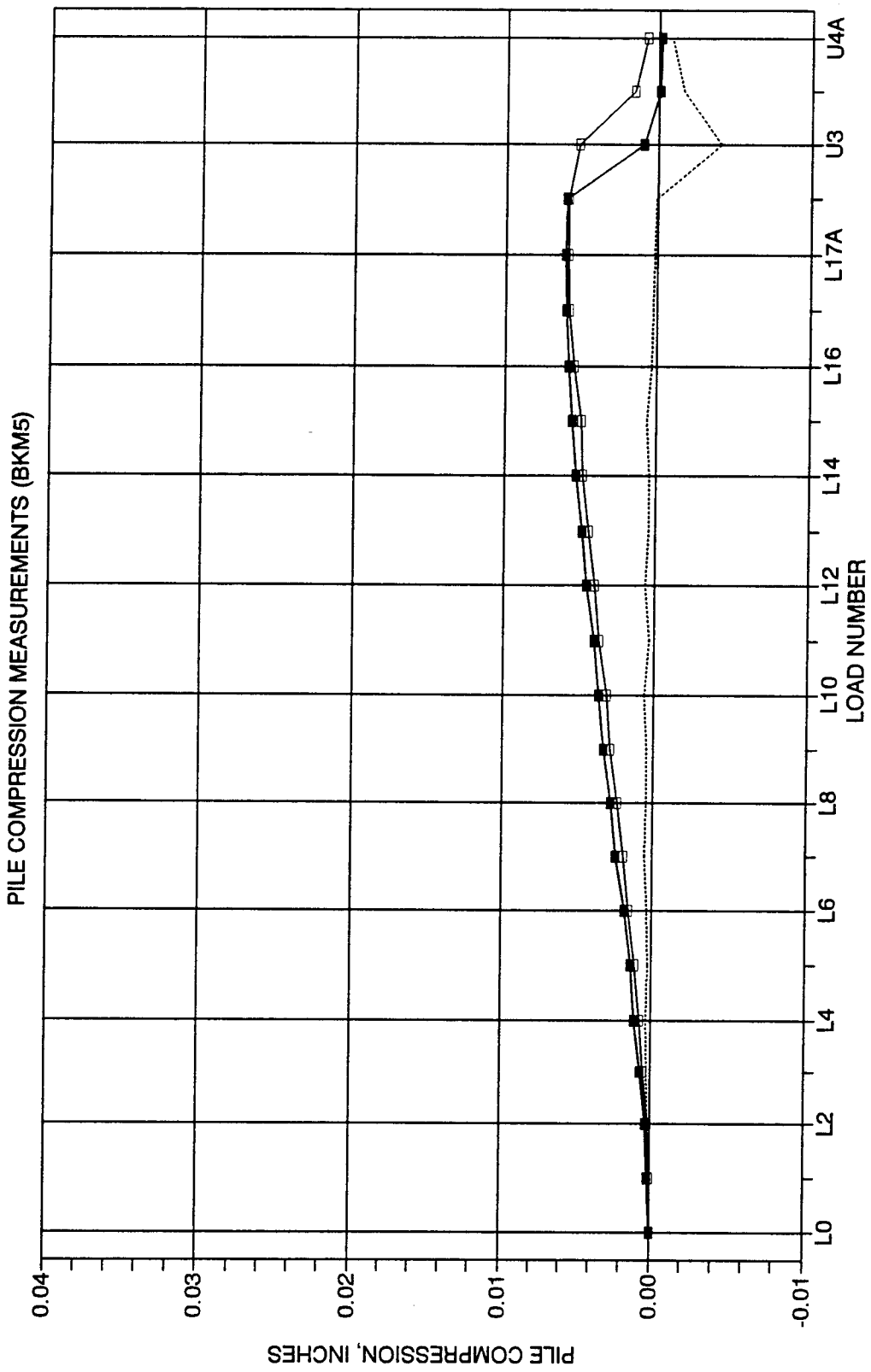

Figure F.62 Pile Compression Measurements: Buckman Load Test 5

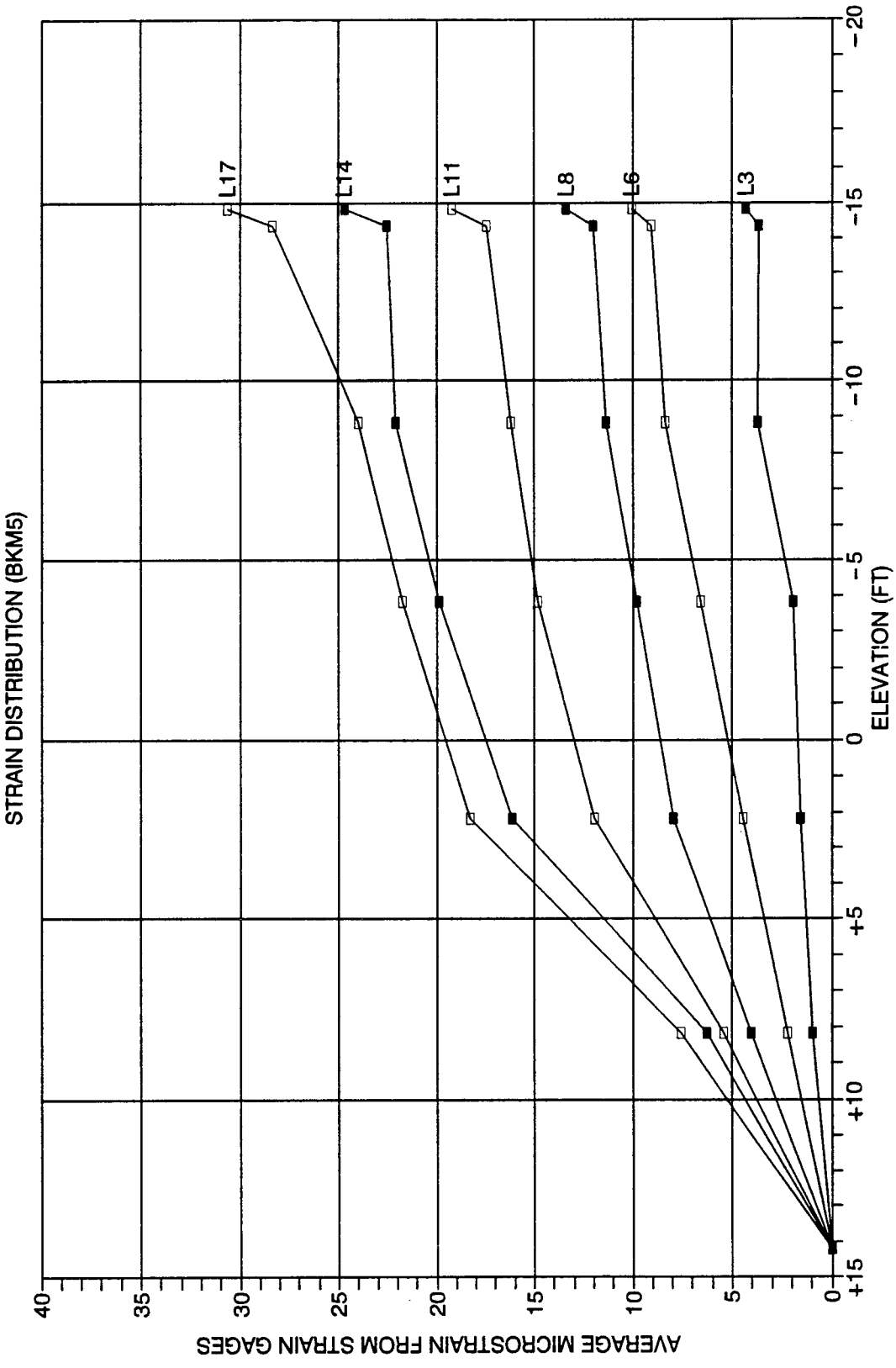

Figure F.63 Pile Strain Distribution: Buckman Load Test 5

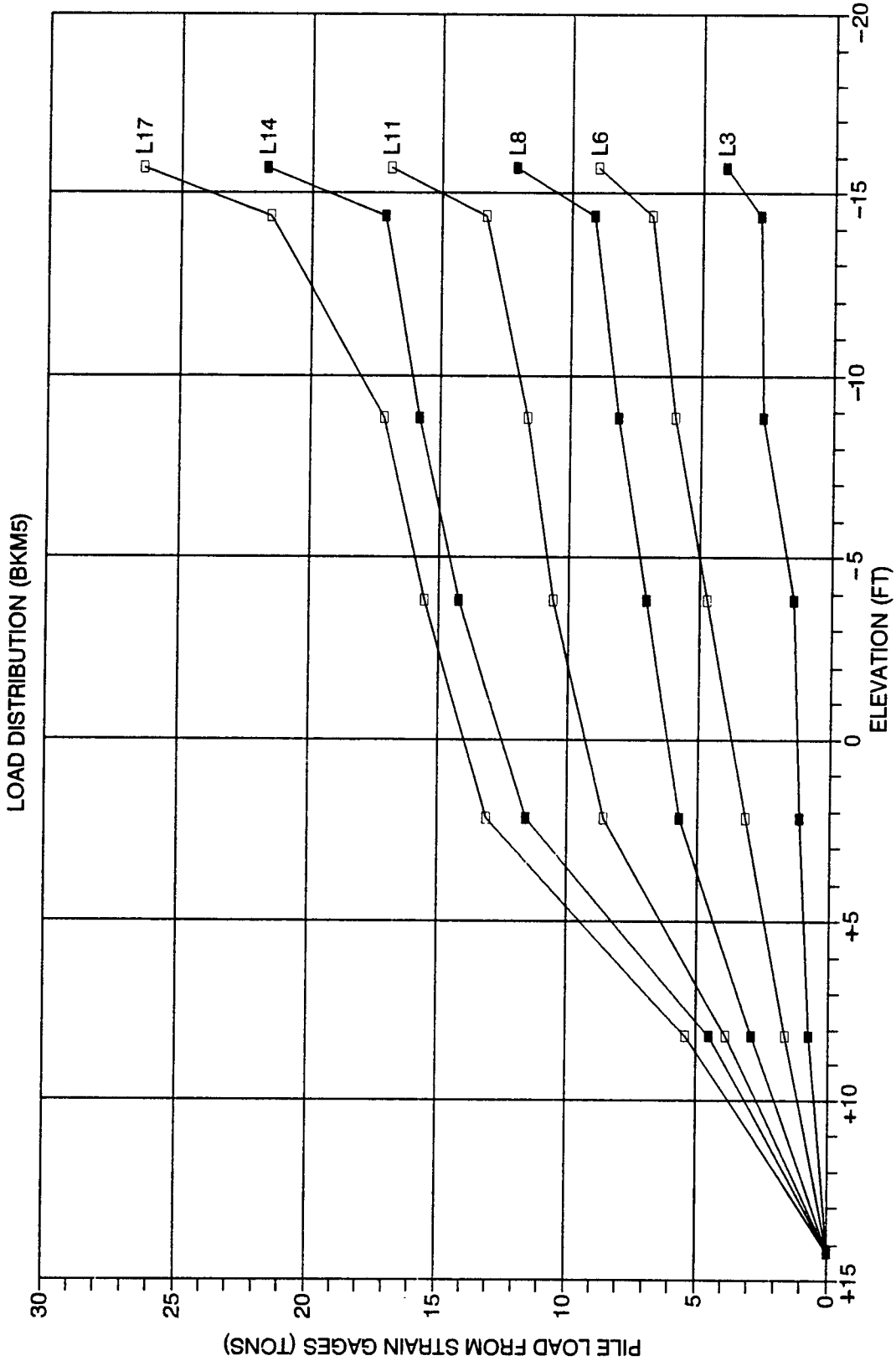

Figure F.64 Pile Load Distribution: Buckman Load Test 5

Table F.14 Strain Analyses: Aucilla Load Test 1

VIBRATING WIRE INSTRUMENT READINGS - STRAIN

AUC 1 LOAD NUMBER	TIME	VW STRN FREQ^2 KHZ^2 13	VW STRN FREQ^2 KHZ^2 14	VW STRN FREQ^2 KHZ^2 15	VW STRN FREQ^2 KHZ^2 16	VW STRN FREQ^2 KHZ^2 3	VW STRN FREQ^2 KHZ^2 4	VW STRN FREQ^2 KHZ^2 17	VW STRN FREQ^2 KHZ^2 18	VW STRN FREQ^2 KHZ^2 7	VW STRN FREQ KHZ^2 8	VW STRN FREQ KHZ^2 35	VW STRN FREQ KHZ^2 36	VW STRN FREQ KHZ^2 21	VW STRN FREQ KHZ^2 22	VW STRN FREQ KHZ^2 41	VW STRN FREQ KHZ^2 42
L0	17:02:48	0.75969	0.74800	0.71992	0.73150	0.73657	0.75028	0.76736	0.67846	0.81348	0.68626	0.74729	0.72370	0.64930	0.70276	0.86369	0.77880
L0	10:52:42	0.76045	0.74527	0.71534	0.72743	0.72934	0.74551	0.75878	0.67401	0.81088	0.67789	0.74269	0.72400	0.70859	0.69554	0.86096	0.77716
L0	10:55:00	0.76044	0.74528	0.71532	0.72742	0.72932	0.74548	0.75876	0.67402	0.81056	0.67788	0.74267	0.71818	0.70849	0.69549	0.86096	0.77715
L0	10:58:31	0.76043	0.74530	0.71533	0.72742	0.72931	0.74548	0.75875	0.67403	0.81081	0.67787	0.74267	0.71816	0.70852	0.69549	0.86094	0.77716
L0	11:03:31	0.76044	0.74529	0.71535	0.72735	0.72930	0.74549	0.75869	0.67408	0.81034	0.67777	0.74267	0.71812	0.70857	0.69548	0.86096	0.77710
L0	11:14:32	0.76049	0.74529	0.71534	0.72741	0.72927	0.74557	0.75868	0.67402	0.81059	0.67783	0.74257	0.71807	0.70851	0.69542	0.86100	0.77718
L1	11:17:44	0.76049	0.74530	0.71528	0.72733	0.72928	0.74559	0.75868	0.67403	0.81005	0.67773	0.74270	0.71811	0.70853	0.69546	0.86100	0.77707
L1	11:18:44	0.76050	0.74532	0.71521	0.72734	0.72917	0.74563	0.75869	0.67405	0.81051	0.67772	0.74259	0.71809	0.70842	0.69547	0.86077	0.77706
L1	11:20:44	0.76041	0.74526	0.71528	0.72741	0.72919	0.74550	0.75866	0.67401	0.81069	0.67772	0.74257	0.71802	0.70859	0.69540	0.86079	0.77706
L2	11:22:40	0.76051	0.74528	0.71525	0.72735	0.72927	0.74567	0.75860	0.67404	0.81043	0.67773	0.74260	0.71802	0.70841	0.69542	0.86082	0.77690
L2	11:23:41	0.76058	0.74529	0.71526	0.72740	0.72923	0.74554	0.75866	0.67404	0.81045	0.67780	0.74257	0.71808	0.70849	0.69532	0.86071	0.77698
L2	11:25:36	0.76046	0.74530	0.71527	0.72732	0.72923	0.74573	0.75864	0.67399	0.81054	0.67782	0.74264	0.71796	0.70856	0.69544	0.86093	0.77692
L3	11:27:41	0.76050	0.74525	0.71529	0.72730	0.72916	0.74549	0.75862	0.67393	0.81030	0.67773	0.74264	0.71798	0.70841	0.69546	0.86029	0.77675
L3	11:28:42	0.76047	0.74519	0.71528	0.72738	0.72916	0.74557	0.75862	0.67395	0.81013	0.67768	0.74256	0.71795	0.70860	0.69545	0.86033	0.77685
L3	11:30:41	0.76054	0.74532	0.71523	0.72738	0.72919	0.74554	0.75854	0.67399	0.81038	0.67773	0.74264	0.71794	0.70863	0.69532	0.86035	0.77689
L4	11:32:02	0.76049	0.74531	0.71523	0.72735	0.72922	0.74563	0.75856	0.67386	0.81033	0.67777	0.74244	0.71794	0.70843	0.69539	0.85998	0.77676
L4	11:33:30	0.76054	0.74525	0.71518	0.72735	0.72921	0.74559	0.75860	0.67390	0.81005	0.67767	0.74254	0.71782	0.70841	0.69531	0.86006	0.77667
L4	11:35:31	0.76049	0.74525	0.71522	0.72734	0.72919	0.74576	0.75854	0.67392	0.81028	0.67770	0.74246	0.71776	0.70839	0.69528	0.85985	0.77677
L5	11:37:34	0.76043	0.74524	0.71518	0.72727	0.72910	0.74560	0.75851	0.67394	0.81065	0.67754	0.74250	0.71750	0.70855	0.69518	0.85909	0.77609
L5	11:38:34	0.76051	0.74529	0.71516	0.72727	0.72910	0.74563	0.75846	0.67392	0.81024	0.67755	0.74242	0.71754	0.70852	0.69517	0.85907	0.77604
L5	11:40:35	0.76058	0.74529	0.71527	0.72726	0.72907	0.74575	0.75848	0.67385	0.81049	0.67755	0.74245	0.71761	0.70845	0.69514	0.85918	0.77605
L6	11:42:40	0.76046	0.74522	0.71510	0.72731	0.72903	0.74550	0.75839	0.67383	0.81050	0.67744	0.74217	0.71737	0.70811	0.69483	0.85832	0.77532
L6	11:43:40	0.76042	0.74526	0.71515	0.72722	0.72902	0.74557	0.75836	0.67384	0.81050	0.67750	0.74213	0.71724	0.70815	0.69485	0.85843	0.77533
L6	11:45:40	0.76046	0.74519	0.71512	0.72728	0.72902	0.74548	0.75834	0.67381	0.81016	0.67729	0.74206	0.71739	0.70816	0.69489	0.85845	0.77537
L7	11:47:39	0.76038	0.74525	0.71509	0.72722	0.72898	0.74528	0.75823	0.67365	0.81011	0.67726	0.74189	0.71737	0.70770	0.69453	0.85752	0.77439
L7	11:48:40	0.76047	0.74524	0.71508	0.72719	0.72897	0.74526	0.75816	0.67353	0.81017	0.67718	0.74192	0.71721	0.70773	0.69438	0.85751	0.77439
L7	11:50:38	0.76045	0.74520	0.71517	0.72720	0.72902	0.74536	0.75823	0.67359	0.81009	0.67726	0.74194	0.71736	0.70768	0.69458	0.85763	0.77438
L8	11:52:39	0.76048	0.74527	0.71503	0.72723	0.72889	0.74512	0.75810	0.67341	0.80998	0.67692	0.74160	0.71705	0.70724	0.69414	0.85638	0.77351
L8	11:53:38	0.76040	0.74520	0.71503	0.72722	0.72890	0.74520	0.75814	0.67355	0.81018	0.67691	0.74160	0.71704	0.70728	0.69404	0.85644	0.77350
L8	11:55:40	0.76045	0.74525	0.71500	0.72718	0.72892	0.74505	0.75802	0.67342	0.81016	0.67686	0.74163	0.71698	0.70727	0.69409	0.85656	0.77351
L9	11:57:34	0.76045	0.74523	0.71494	0.72715	0.72881	0.74494	0.75800	0.67340	0.81004	0.67657	0.74122	0.71633	0.70692	0.69377	0.85520	0.77234
L9	11:58:33	0.76045	0.74522	0.71499	0.72715	0.72876	0.74497	0.75797	0.67358	0.80991	0.67662	0.74124	0.71638	0.70683	0.69376	0.85530	0.77240
L9	12:00:31	0.76045	0.74523	0.71495	0.72712	0.72884	0.74501	0.75796	0.67325	0.80986	0.67665	0.74123	0.71654	0.70688	0.69376	0.85535	0.77247
L10	12:02:27	0.76045	0.74520	0.71487	0.72709	0.72864	0.74482	0.75783	0.67336	0.80984	0.67611	0.74068	0.71591	0.70658	0.69321	0.85407	0.77107
L10	12:03:31	0.76045	0.74528	0.71495	0.72710	0.72866	0.74479	0.75779	0.67342	0.80977	0.67628	0.74080	0.71612	0.70643	0.69317	0.85397	0.77123
L10	12:05:27	0.76049	0.74524	0.71480	0.72702	0.72861	0.74480	0.75780	0.67320	0.80952	0.67613	0.74081	0.71592	0.70641	0.69323	0.85404	0.77128
L11	12:07:20	0.76045	0.74515	0.71449	0.72680	0.72802	0.74387	0.75656	0.67229	0.80736	0.67395	0.73763	0.71301	0.70305	0.68990	0.84573	0.76519
L11	12:08:19	0.76041	0.74520	0.71454	0.72673	0.72795	0.74380	0.75642	0.67214	0.80684	0.67365	0.73733	0.71278	0.70268	0.68950	0.84523	0.76474
L11	12:10:18	0.76047	0.74523	0.71455	0.72658	0.72798	0.74376	0.75635	0.67230	0.80673	0.67356	0.73734	0.71271	0.70265	0.68950	0.84506	0.76473
L12	12:12:16	0.76036	0.74517	0.71431	0.72666	0.72764	0.74358	0.75594	0.67177	0.80592	0.67232	0.73621	0.71119	0.70141	0.68840	0.84335	0.76269
L12	12:13:11	0.76042	0.74514	0.71438	0.72667	0.72759	0.74370	0.75596	0.67191	0.80586	0.67231	0.73616	0.71156	0.70138	0.68826	0.84313	0.76260
L12	12:15:12	0.76034	0.74511	0.71441	0.72673	0.72775	0.74374	0.75595	0.67168	0.80580	0.67231	0.73620	0.71154	0.70133	0.68833	0.84336	0.76270
L13	12:16:57	0.76038	0.74513	0.71411	0.72660	0.72738	0.74316	0.75545	0.67149	0.80499	0.67126	0.73484	0.71006	0.70014	0.68706	0.84057	0.76049

Table F.14 continued

VIBRATING WIRE INSTRUMENT READINGS - STRAIN

AUC 1 LOAD NUMBER	TIME	VW STRN FREQ^2 KHZ^2 13	VW STRN FREQ^2 KHZ^2 14	VW STRN FREQ^2 KHZ^2 15	VW STRN FREQ^2 KHZ^2 16	VW STRN FREQ^2 KHZ^2 3	VW STRN FREQ^2 KHZ^2 4	VW STRN FREQ^2 KHZ^2 17	VW STRN FREQ^2 KHZ^2 18	VW STRN FREQ^2 KHZ^2 7	VW STRN FREQ KHZ^2 8	VW STRN FREQ KHZ^2 35	VW STRN FREQ KHZ^2 36	VW STRN FREQ KHZ^2 21	VW STRN FREQ KHZ^2 22	VW STRN FREQ KHZ^2 41	VW STRN FREQ KHZ^2 42
L13	12:17:55	0.76037	0.74511	0.71420	0.72659	0.72736	0.74318	0.75544	0.67147	0.80494	0.67136	0.73491	0.70981	0.70009	0.68706	0.84064	0.76059
L13	12:19:56	0.76037	0.74517	0.71427	0.72652	0.72746	0.74326	0.75549	0.67161	0.80493	0.67122	0.73483	0.70973	0.70011	0.68720	0.84095	0.76057
L14	12:21:56	0.76033	0.74511	0.71405	0.72633	0.72706	0.74265	0.75502	0.67102	0.80414	0.67017	0.73362	0.70906	0.69882	0.68604	0.83843	0.75852
L14	12:22:57	0.76036	0.74512	0.71398	0.72642	0.72709	0.74275	0.75503	0.67109	0.80390	0.67020	0.73359	0.70904	0.69886	0.68609	0.83849	0.75851
L14	12:24:56	0.76035	0.74506	0.71405	0.72633	0.72720	0.74270	0.75501	0.67100	0.80389	0.67019	0.73358	0.70908	0.69886	0.68585	0.83844	0.75842
L15	12:26:58	0.76032	0.74512	0.71399	0.72617	0.72685	0.74246	0.75467	0.67085	0.80305	0.66930	0.73247	0.70802	0.69749	0.68504	0.83647	0.75652
L15	12:27:54	0.76030	0.74508	0.71398	0.72623	0.72693	0.74242	0.75471	0.67095	0.80293	0.66918	0.73243	0.70802	0.69744	0.68491	0.83631	0.75657
L15	12:29:53	0.76031	0.74511	0.71406	0.72621	0.72702	0.74256	0.75477	0.67078	0.80287	0.66919	0.73241	0.70820	0.69749	0.68503	0.83637	0.75657
L16	12:32:00	0.76026	0.74505	0.71380	0.72598	0.72689	0.74208	0.75434	0.67047	0.80168	0.66812	0.73113	0.70689	0.69613	0.68395	0.83438	0.75475
L16	12:33:00	0.76028	0.74508	0.71384	0.72596	0.72683	0.74228	0.75445	0.67048	0.80195	0.66810	0.73127	0.70696	0.69618	0.68394	0.83431	0.75463
L16	12:35:02	0.76030	0.74514	0.71388	0.72606	0.72688	0.74226	0.75446	0.67045	0.80189	0.66821	0.73123	0.70674	0.69616	0.68393	0.83436	0.75479
L17	12:36:54	0.76020	0.74504	0.71364	0.72581	0.72664	0.74186	0.75414	0.67023	0.80079	0.66702	0.73004	0.70598	0.69488	0.68291	0.83267	0.75297
L17	12:37:54	0.76023	0.74507	0.71365	0.72588	0.72665	0.74199	0.75417	0.67030	0.80075	0.66709	0.73002	0.70589	0.69487	0.68301	0.83246	0.75295
L17	12:39:52	0.76028	0.74505	0.71363	0.72583	0.72673	0.74201	0.75421	0.67031	0.80058	0.66709	0.73014	0.70579	0.69492	0.68319	0.83270	0.75322
L18	12:41:41	0.76021	0.74505	0.71345	0.72558	0.72645	0.74188	0.75387	0.66996	0.79964	0.66616	0.72909	0.70495	0.69372	0.68207	0.83069	0.75151
L18	12:42:43	0.76031	0.74506	0.71343	0.72559	0.72656	0.74190	0.75392	0.67002	0.79971	0.66608	0.72888	0.70504	0.69364	0.68221	0.83061	0.75164
L18	12:44:40	0.76024	0.74502	0.71353	0.72579	0.72666	0.74183	0.75402	0.67018	0.79966	0.66611	0.72917	0.70513	0.69367	0.68230	0.83055	0.75163
L19	12:46:31	0.76020	0.74500	0.71332	0.72552	0.72636	0.74152	0.75366	0.66975	0.79904	0.66534	0.72781	0.70404	0.69249	0.68144	0.82853	0.75028
L19	12:47:30	0.76015	0.74497	0.71333	0.72542	0.72634	0.74159	0.75370	0.66988	0.79886	0.66539	0.72788	0.70406	0.69251	0.68137	0.82856	0.75035
L19	12:49:31	0.76026	0.74499	0.71341	0.72558	0.72649	0.74167	0.75377	0.66992	0.79898	0.66549	0.72802	0.70397	0.69245	0.68144	0.82850	0.75059
L20	12:51:23	0.76025	0.74497	0.71318	0.72542	0.72620	0.74124	0.75347	0.66945	0.79807	0.66429	0.72701	0.70321	0.69131	0.68060	0.82648	0.74938
L20	12:52:23	0.76013	0.74491	0.71323	0.72545	0.72634	0.74129	0.75357	0.66947	0.79795	0.66411	0.72704	0.70325	0.69122	0.68049	0.82649	0.74947
L20	12:54:23	0.76023	0.74488	0.71319	0.72544	0.72634	0.74142	0.75354	0.66973	0.79797	0.66434	0.72698	0.70324	0.69113	0.68068	0.82645	0.74960
L21	12:56:20	0.76013	0.74480	0.71315	0.72513	0.72608	0.74092	0.75333	0.66947	0.79707	0.66331	0.72578	0.70215	0.68965	0.67977	0.82396	0.74844
L21	12:57:21	0.76015	0.74485	0.71309	0.72527	0.72608	0.74094	0.75340	0.66930	0.79686	0.66311	0.72567	0.70212	0.68957	0.67963	0.82389	0.74867
L21	12:59:19	0.76008	0.74485	0.71301	0.72530	0.72617	0.74104	0.75347	0.66933	0.79705	0.66318	0.72565	0.70202	0.68949	0.67979	0.82368	0.74892
L22	13:01:13	0.76008	0.74461	0.71243	0.72450	0.72548	0.74058	0.75320	0.66879	0.79470	0.66119	0.72303	0.69995	0.68693	0.67779	0.82140	0.74541
L22	13:02:14	0.75997	0.74455	0.71234	0.72418	0.72532	0.74020	0.75316	0.66852	0.79426	0.66148	0.72310	0.69970	0.68663	0.67762	0.82125	0.74505
L22	13:04:12	0.75974	0.74432	0.71168	0.72340	0.72489	0.74001	0.75323	0.66835	0.79388	0.66140	0.72252	0.69956	0.68575	0.67739	0.82039	0.74436
L23	13:06:42	0.75911	0.74382	0.71115	0.72187	0.72361	0.73898	0.75217	0.66713	0.79349	0.66067	0.72151	0.69941	0.68442	0.67688	0.81990	0.74262
L23	13:07:38	0.75879	0.74357	0.71108	0.72090	0.72331	0.73869	0.75194	0.66683	0.79325	0.66027	0.72038	0.69920	0.68410	0.67650	0.81929	0.74266
L23	13:09:37	0.75826	0.74345	0.71053	0.71982	0.72216	0.73790	0.75122	0.66622	0.79283	0.65994	0.72029	0.69935	0.68418	0.67761	0.82119	0.74404
L23A	13:14:06	0.75826	0.74348	0.71136	0.72068	0.72324	0.73901	0.75193	0.66679	0.79384	0.66054	0.72154	0.70017	0.68510	0.67767	0.82143	0.74497
U1	13:18:33	0.75896	0.74443	0.71289	0.72240	0.72557	0.74137	0.75499	0.66905	0.79867	0.66548	0.72882	0.70663	0.69387	0.68410	0.83579	0.75777
U2	13:23:45	0.75926	0.74462	0.71367	0.72309	0.72648	0.74236	0.75621	0.67030	0.80052	0.66756	0.73126	0.70854	0.69672	0.68655	0.83929	0.76173
U3	13:28:15	0.75955	0.74521	0.71469	0.72415	0.72794	0.74368	0.75790	0.67179	0.80304	0.67033	0.73480	0.71160	0.70058	0.68974	0.84486	0.76693
U4	13:32:13	0.76014	0.74558	0.71598	0.72557	0.72983	0.74602	0.76039	0.67391	0.80665	0.67454	0.73941	0.71559	0.70560	0.69407	0.85242	0.77350
U5	13:36:30	0.76037	0.74617	0.71735	0.72685	0.73129	0.74797	0.76260	0.67563	0.81036	0.67796	0.74321	0.71904	0.70953	0.69754	0.85877	0.77872
U6	13:40:40	0.76057	0.74642	0.71799	0.72742	0.73226	0.74886	0.76369	0.67674	0.81225	0.67989	0.74530	0.72136	0.71140	0.69956	0.86276	0.78124
U7	13:44:28	0.76092	0.74680	0.71910	0.72856	0.73385	0.75077	0.76581	0.67868	0.81558	0.68356	0.74914	0.72506	0.71553	0.70345	0.86909	0.78570
U7A	13:47:27	0.76086	0.74686	0.71920	0.72846	0.73377	0.75087	0.76579	0.67878	0.81591	0.68356	0.74920	0.72469	0.71565	0.70337	0.86909	0.78559

Table F.14 continued

VIBRATING WIRE INSTRUMENT READINGS - TEMPERATURE

AUC 1 LOAD NUMBER	TIME	VW STRN TEMP DEG C 13	VW STRN TEMP DEG C 14	VW STRN TEMP DEG C 15	VW STRN TEMP DEG C 16	VW STRN TEMP DEG C 3	VW STRN TEMP DEG C 4	VW STRN TEMP DEG C 17	VW STRN TEMP DEG C 18	VW STRN TEMP DEG C 7	VW STRN TEMP DEG C 8	VW STRN TEMP DEG C 35	VW STRN TEMP DEG C 36	VW STRN TEMP DEG C 21	VW STRN TEMP DEG C 22	VW STRN TEMP DEG C 41	VW STRN TEMP DEG C 42
L0	17:02:48	16.857	17.002	17.497	17.526	18.083	17.965	18.348	18.377	18.466	18.495	18.643	18.584	18.762	18.614	19.927	19.957
L0	10:52:42	17.409	17.380	18.791	18.791	19.747	19.656	19.927	19.897	19.837	19.897	19.957	19.897	19.927	19.837	20.532	20.471
L0	10:55:00	17.409	17.380	18.791	18.791	19.747	19.656	19.927	19.897	19.837	19.897	19.957	19.897	19.927	19.867	20.532	20.471
L0	10:58:31	17.409	17.380	18.791	18.791	19.747	19.656	19.957	19.897	19.837	19.897	19.957	19.897	19.927	19.837	20.532	20.471
L0	11:03:31	17.409	17.380	18.791	18.791	19.747	19.656	19.957	19.897	19.837	19.897	19.957	19.927	19.957	19.867	20.532	20.471
L0	11:14:32	17.409	17.380	18.791	18.791	19.747	19.656	19.957	19.927	19.837	19.897	19.957	19.927	19.957	19.867	20.532	20.471
L1	11:17:44	17.409	17.380	18.791	18.791	19.747	19.656	19.957	19.927	19.837	19.897	19.957	19.927	19.957	19.867	20.532	20.471
L1	11:18:44	17.409	17.380	18.791	18.821	19.747	19.656	19.957	19.927	19.837	19.897	19.957	19.927	19.957	19.867	20.532	20.471
L1	11:20:44	17.409	17.380	18.791	18.821	19.747	19.656	19.957	19.927	19.867	19.897	19.957	19.927	19.957	19.867	20.532	20.471
L2	11:22:40	17.409	17.380	18.791	18.821	19.747	19.656	19.957	19.927	19.867	19.897	19.957	19.927	19.957	19.867	20.532	20.471
L2	11:23:41	17.409	17.380	18.791	18.821	19.747	19.656	19.957	19.927	19.867	19.897	19.957	19.927	19.957	19.867	20.532	20.502
L2	11:25:36	17.409	17.380	18.791	18.821	19.747	19.656	19.957	19.927	19.867	19.927	19.957	19.927	19.957	19.867	20.532	20.502
L3	11:27:41	17.409	17.380	18.791	18.821	19.747	19.656	19.957	19.927	19.867	19.897	19.957	19.927	19.957	19.867	20.532	20.471
L3	11:28:42	17.409	17.380	18.791	18.821	19.747	19.656	19.957	19.927	19.867	19.927	19.957	19.927	19.957	19.867	20.532	20.471
L3	11:30:41	17.409	17.380	18.821	18.821	19.777	19.656	19.957	19.927	19.867	19.897	19.957	19.927	19.957	19.867	20.532	20.502
L4	11:32:02	17.409	17.380	18.821	18.821	19.747	19.687	19.957	19.927	19.837	19.897	19.957	19.927	19.957	19.867	20.532	20.471
L4	11:33:30	17.409	17.380	18.791	18.821	19.747	19.656	19.957	19.927	19.867	19.927	19.957	19.927	19.957	19.867	20.532	20.502
L4	11:35:31	17.409	17.380	18.821	18.821	19.777	19.656	19.957	19.927	19.867	19.897	19.957	19.927	19.957	19.867	20.532	20.502
L5	11:37:34	17.409	17.380	18.821	18.821	19.777	19.656	19.957	19.927	19.867	19.927	19.957	19.927	19.957	19.867	20.532	20.471
L5	11:38:34	17.409	17.380	18.821	18.821	19.747	19.687	19.957	19.927	19.867	19.927	19.957	19.927	19.957	19.867	20.532	20.471
L5	11:40:35	17.409	17.380	18.821	18.821	19.777	19.656	19.957	19.927	19.867	19.927	19.957	19.927	19.957	19.867	20.532	20.502
L6	11:42:40	17.409	17.380	18.821	18.821	19.777	19.656	19.957	19.927	19.867	19.927	19.957	19.927	19.957	19.867	20.532	20.471
L6	11:43:40	17.409	17.380	18.821	18.821	19.777	19.687	19.957	19.927	19.867	19.927	19.957	19.927	19.957	19.867	20.532	20.502
L6	11:45:40	17.409	17.380	18.821	18.821	19.777	19.687	19.957	19.927	19.867	19.927	19.957	19.957	19.957	19.867	20.532	20.471
L7	11:47:39	17.409	17.380	18.821	18.821	19.777	19.687	19.957	19.927	19.867	19.927	19.957	19.927	19.957	19.867	20.532	20.502
L7	11:48:40	17.409	17.380	18.821	18.821	19.777	19.687	19.957	19.927	19.867	19.927	19.957	19.927	19.957	19.897	20.532	20.502
L7	11:50:38	17.409	17.380	18.821	18.821	19.777	19.687	19.957	19.927	19.867	19.927	19.957	19.927	19.957	19.867	20.532	20.502
L8	11:52:39	17.409	17.380	18.821	18.821	19.777	19.687	19.957	19.927	19.867	19.927	19.957	19.927	19.957	19.867	20.532	20.502
L8	11:53:38	17.409	17.380	18.821	18.821	19.777	19.687	19.957	19.927	19.867	19.927	19.957	19.927	19.957	19.867	20.532	20.502
L8	11:55:40	17.409	17.409	18.821	18.821	19.777	19.687	19.957	19.927	19.867	19.927	19.957	19.927	19.957	19.867	20.532	20.502
L9	11:57:34	17.409	17.380	18.821	18.821	19.777	19.687	19.957	19.957	19.867	19.927	19.957	19.927	19.957	19.897	20.532	20.502
L9	11:58:33	17.409	17.380	18.821	18.821	19.777	19.687	19.957	19.927	19.867	19.927	19.957	19.927	19.957	19.897	20.532	20.471
L9	12:00:31	17.409	17.409	18.821	18.821	19.777	19.687	19.957	19.927	19.867	19.927	19.957	19.957	19.957	19.897	20.532	20.471
L10	12:02:27	17.409	17.380	18.821	18.851	19.777	19.687	19.957	19.957	19.867	19.927	19.957	19.927	19.957	19.897	20.532	20.502
L10	12:03:31	17.409	17.380	18.821	18.851	19.777	19.687	19.957	19.957	19.897	19.927	19.957	19.927	19.957	19.897	20.532	20.502
L10	12:05:27	17.409	17.380	18.821	18.851	19.777	19.687	19.957	19.957	19.867	19.927	19.957	19.927	19.957	19.897	20.532	20.502
L11	12:07:20	17.409	17.409	18.821	18.851	19.777	19.687	19.957	19.957	19.867	19.927	19.957	19.927	19.957	19.897	20.532	20.471
L11	12:08:19	17.409	17.380	18.821	18.851	19.777	19.687	19.957	19.957	19.897	19.927	19.957	19.957	19.957	19.897	20.532	20.502
L11	12:10:18	17.409	17.409	18.821	18.851	19.777	19.687	19.987	19.927	19.867	19.927	19.987	19.927	19.957	19.897	20.532	20.502
L12	12:12:16	17.409	17.380	18.821	18.851	19.777	19.717	19.987	19.957	19.897	19.927	19.957	19.957	19.957	19.897	20.532	20.502
L12	12:13:11	17.409	17.409	18.821	18.851	19.777	19.687	19.957	19.957	19.897	19.927	19.987	19.957	19.957	19.897	20.532	20.502
L12	12:15:12	17.409	17.380	18.821	18.851	19.807	19.687	19.987	19.957	19.897	19.927	19.987	19.957	19.957	19.897	20.532	20.502
L13	12:16:57	17.409	17.409	18.851	18.851	19.807	19.687	19.987	19.957	19.897	19.927	19.987	19.957	19.957	19.897	20.532	20.502

Table F.14 continued

VIBRATING WIRE INSTRUMENT READINGS - TEMPERATURE

AUC 1 LOAD NUMBER	TIME	VW STRN TEMP DEG C 13	VW STRN TEMP DEG C 14	VW STRN TEMP DEG C 15	VW STRN TEMP DEG C 16	VW STRN TEMP DEG C 3	VW STRN TEMP DEG C 4	VW STRN TEMP DEG C 17	VW STRN TEMP DEG C 18	VW STRN TEMP DEG C 7	VW STRN TEMP DEG C 8	VW STRN TEMP DEG C 35	VW STRN TEMP DEG C 36	VW STRN TEMP DEG C 21	VW STRN TEMP DEG C 22	VW STRN TEMP DEG C 41	VW STRN TEMP DEG C 42
L13	12:17:55	17.409	17.380	18.821	18.851	19.807	19.687	19.987	19.957	19.897	19.927	19.987	19.957	19.957	19.897	20.532	20.502
L13	12:19:56	17.409	17.380	18.851	18.851	19.807	19.687	19.987	19.957	19.897	19.927	19.987	19.957	19.957	19.897	20.532	20.502
L14	12:21:56	17.409	17.409	18.821	18.851	19.807	19.687	19.987	19.957	19.897	19.927	19.987	19.957	19.957	19.897	20.532	20.502
L14	12:22:57	17.409	17.409	18.851	18.851	19.807	19.687	19.987	19.957	19.897	19.927	19.987	19.927	19.957	19.897	20.532	20.502
L14	12:24:56	17.409	17.409	18.851	18.851	19.807	19.687	19.987	19.957	19.897	19.927	19.957	19.957	19.957	19.897	20.532	20.502
L15	12:26:58	17.409	17.409	18.851	18.851	19.807	19.687	19.987	19.957	19.897	19.957	19.987	19.957	19.957	19.897	20.532	20.502
L15	12:27:54	17.438	17.409	18.851	18.851	19.807	19.717	19.987	19.957	19.897	19.927	19.987	19.957	19.957	19.897	20.532	20.502
L15	12:29:53	17.409	17.409	18.851	18.851	19.807	19.717	19.987	19.957	19.897	19.957	19.987	19.957	19.987	19.897	20.532	20.502
L16	12:32:00	17.409	17.409	18.851	18.851	19.807	19.717	19.987	19.957	19.897	19.957	19.987	19.957	19.957	19.897	20.532	20.502
L16	12:33:00	17.409	17.409	18.851	18.851	19.807	19.717	19.987	19.957	19.897	19.957	19.987	19.957	19.987	19.897	20.562	20.502
L16	12:35:02	17.409	17.380	18.851	18.851	19.807	19.717	19.987	19.957	19.897	19.957	19.987	19.957	19.987	19.897	20.532	20.502
L17	12:36:54	17.409	17.409	18.851	18.851	19.807	19.717	19.987	19.957	19.897	19.927	19.987	19.957	19.987	19.897	20.532	20.502
L17	12:37:54	17.409	17.409	18.851	18.851	19.807	19.717	19.987	19.957	19.897	19.957	19.987	19.957	19.987	19.897	20.562	20.502
L17	12:39:52	17.438	17.409	18.851	18.851	19.807	19.717	19.987	19.957	19.897	19.957	19.987	19.957	19.987	19.897	20.532	20.502
L18	12:41:41	17.409	17.409	18.851	18.851	19.807	19.717	19.987	19.957	19.897	19.957	19.987	19.957	19.987	19.897	20.532	20.502
L18	12:42:43	17.409	17.409	18.851	18.851	19.807	19.717	19.987	19.957	19.897	19.957	19.987	19.957	19.987	19.897	20.532	20.502
L18	12:44:40	17.409	17.409	18.851	18.851	19.807	19.717	19.987	19.957	19.897	19.957	19.987	19.957	19.987	19.897	20.532	20.502
L19	12:46:31	17.438	17.409	18.851	18.851	19.807	19.717	19.987	19.957	19.897	19.957	19.987	19.957	19.987	19.897	20.532	20.502
L19	12:47:30	17.438	17.409	18.851	18.851	19.807	19.717	19.987	19.957	19.897	19.957	19.987	19.957	19.987	19.897	20.532	20.502
L19	12:49:31	17.409	17.409	18.851	18.851	19.807	19.717	19.987	19.957	19.897	19.957	19.987	19.957	19.987	19.897	20.532	20.502
L20	12:51:23	17.438	17.409	18.851	18.851	19.807	19.717	19.987	19.957	19.897	19.957	19.987	19.957	19.987	19.897	20.532	20.502
L20	12:52:23	17.409	17.409	18.851	18.851	19.807	19.717	19.987	19.957	19.897	19.957	19.987	19.957	19.987	19.897	20.532	20.502
L20	12:54:23	17.409	17.409	18.851	18.851	19.807	19.717	19.987	19.957	19.897	19.957	19.987	19.957	19.987	19.897	20.532	20.502
L21	12:56:20	17.409	17.409	18.851	18.851	19.807	19.717	19.987	19.957	19.897	19.957	19.987	19.957	19.987	19.897	20.532	20.502
L21	12:57:21	17.438	17.380	18.851	18.851	19.807	19.717	19.987	19.957	19.897	19.957	19.987	19.957	19.987	19.897	20.532	20.502
L21	12:59:19	17.438	17.409	18.851	18.851	19.807	19.717	19.987	19.957	19.897	19.957	19.987	19.957	19.987	19.927	20.532	20.502
L22	13:01:13	17.438	17.409	18.851	18.851	19.807	19.717	19.987	19.957	19.897	19.957	19.987	19.957	19.987	19.897	20.532	20.502
L22	13:02:14	17.438	17.409	18.851	18.851	19.807	19.717	20.017	19.987	19.897	19.957	19.987	19.957	19.987	19.927	20.562	20.502
L22	13:04:12	17.438	17.409	18.851	18.851	19.807	19.717	19.987	19.957	19.897	19.957	19.987	19.957	19.987	19.927	20.532	20.502
L23	13:06:42	17.438	17.409	18.851	18.851	19.807	19.717	19.987	19.957	19.897	19.957	19.987	19.957	19.987	19.927	20.562	20.502
L23	13:07:38	17.438	17.409	18.851	18.851	19.807	19.717	19.987	19.957	19.897	19.957	19.987	19.957	19.987	19.927	20.532	20.502
L23	13:09:37	17.409	17.409	18.851	18.851	19.807	19.717	19.987	19.957	19.897	19.957	19.987	19.957	19.987	19.927	20.532	20.502
L23A	13:14:06	17.438	17.409	18.851	18.851	19.807	19.717	19.987	19.957	19.927	19.957	19.987	19.957	19.987	19.927	20.532	20.502
U1	13:18:33	17.438	17.409	18.851	18.851	19.807	19.717	20.017	19.987	19.897	19.957	19.987	19.957	19.987	19.927	20.532	20.502
U2	13:23:45	17.438	17.409	18.851	18.851	19.837	19.717	20.017	19.957	19.927	19.957	19.987	19.957	19.987	19.927	20.532	20.502
U3	13:28:15	17.438	17.409	18.851	18.851	19.837	19.717	20.017	19.987	19.897	19.957	19.987	19.957	19.987	19.927	20.532	20.502
U4	13:32:13	17.438	17.409	18.851	18.851	19.837	19.717	20.017	19.987	19.927	19.957	19.987	19.957	19.987	19.927	20.532	20.502
U5	13:36:30	17.438	17.409	18.851	18.880	19.837	19.747	20.017	19.987	19.927	19.957	19.987	19.957	19.987	19.927	20.532	20.502
U6	13:40:40	17.438	17.409	18.851	18.880	19.837	19.717	20.017	19.987	19.927	19.957	19.987	19.957	19.987	19.927	20.532	20.502
U7	13:44:28	17.438	17.409	18.851	18.880	19.837	19.747	20.017	19.987	19.927	19.957	20.017	19.957	19.987	19.927	20.532	20.502
U7A	13:47:27	17.438	17.409	18.851	18.851	19.837	19.717	20.017	19.987	19.927	19.957	19.987	19.957	19.987	19.927	20.532	20.502

Table F.14 continued

VIBRATING WIRE CALCULATED STRAIN

AUC 1 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 13	VW STRN MICRO STRAIN 14	VW STRN MICRO STRAIN 15	VW STRN MICRO STRAIN 16	VW STRN MICRO STRAIN 3	VW STRN MICRO STRAIN 4	VW STRN MICRO STRAIN 17	VW STRN MICRO STRAIN 18	VW STRN MICRO STRAIN 7	VW STRN MICRO STRAIN 8	VW STRN MICRO STRAIN 35	VW STRN MICRO STRAIN 36	VW STRN MICRO STRAIN 21	VW STRN MICRO STRAIN 22	VW STRN MICRO STRAIN 41	VW STRN MICRO STRAIN 42
L0	17:02:48	4.6	-3.2	-0.6	-8.3	-7.0	4.2	-3.0	3.2	9.9	-7.0	8.1	5.1	220.8	3.7	18.6	23.1
L0	10:52:42	1.4	5.3	12.8	3.5	14.8	17.8	23.3	15.9	16.7	18.8	21.5	2.4	23.4	26.0	26.9	27.9
L0	10:55:00	1.4	5.3	12.9	3.5	14.8	17.9	23.3	15.8	17.8	18.8	21.6	21.6	23.7	26.1	26.9	27.9
L0	10:58:31	1.5	5.2	12.9	3.5	14.9	17.9	23.3	15.8	17.0	18.9	21.6	21.7	23.6	26.2	26.9	27.9
L0	11:03:31	1.4	5.2	12.8	3.7	14.9	17.9	23.5	15.6	18.5	19.2	21.6	21.7	23.4	26.1	26.9	28.1
L0	11:14:32	1.3	5.2	12.8	3.5	15.0	17.6	23.6	15.8	17.7	19.0	21.9	21.9	23.6	26.3	26.7	27.8
L1	11:17:44	1.3	5.2	13.0	3.8	15.0	17.5	23.6	15.8	19.5	19.3	21.5	21.8	23.6	26.2	26.7	28.2
L1	11:18:44	1.2	5.1	13.3	3.7	15.3	17.4	23.5	15.7	18.0	19.4	21.9	21.8	23.9	26.2	27.5	28.2
L1	11:20:44	1.5	5.3	13.0	3.5	15.2	17.8	23.6	15.8	17.3	19.4	21.9	22.1	23.4	26.4	27.4	28.2
L2	11:22:40	1.2	5.3	13.1	3.7	15.0	17.3	23.8	15.7	18.2	19.3	21.8	22.1	24.0	26.3	27.3	28.8
L2	11:23:41	1.0	5.2	13.1	3.5	15.1	17.7	23.6	15.7	18.1	19.1	21.9	21.9	23.7	26.7	27.7	28.4
L2	11:25:36	1.4	5.2	13.1	3.8	15.1	17.1	23.7	15.9	17.8	19.0	21.7	22.3	23.5	26.3	27.0	28.6
L3	11:27:41	1.2	5.4	13.0	3.9	15.3	17.9	23.8	16.1	18.6	19.3	21.7	22.2	24.0	26.2	29.1	29.2
L3	11:28:42	1.3	5.6	13.0	3.6	15.3	17.6	23.8	16.0	19.2	19.5	22.0	22.3	23.3	26.2	28.9	28.9
L3	11:30:41	1.1	5.1	13.2	3.6	15.2	17.7	24.0	15.9	18.3	19.3	21.7	22.3	23.2	26.7	28.9	28.7
L4	11:32:02	1.3	5.2	13.2	3.7	15.2	17.4	24.0	16.3	18.6	19.2	22.4	22.3	23.9	26.4	30.1	29.2
L4	11:33:30	1.1	5.4	13.4	3.7	15.2	17.5	23.8	16.2	19.4	19.5	22.0	22.7	24.0	26.7	29.8	29.5
L4	11:35:31	1.3	5.4	13.2	3.7	15.2	17.0	24.0	16.1	18.7	19.4	22.3	22.9	24.0	26.8	30.5	29.1
L5	11:37:34	1.5	5.4	13.3	4.0	15.5	17.5	24.1	16.1	17.5	19.9	22.2	23.8	23.5	27.1	33.0	31.4
L5	11:38:34	1.2	5.2	13.4	4.0	15.5	17.4	24.3	16.1	18.8	19.9	22.4	23.7	23.6	27.2	33.1	31.6
L5	11:40:35	1.0	5.2	13.0	4.0	15.6	17.0	24.2	16.4	18.0	19.9	22.3	23.4	23.8	27.3	32.7	31.5
L6	11:42:40	1.4	5.5	13.6	3.8	15.7	17.8	24.5	16.4	18.0	20.3	23.3	24.2	25.0	28.3	35.6	34.0
L6	11:43:40	1.5	5.3	13.4	4.1	15.8	17.6	24.6	16.4	18.0	20.1	23.4	24.7	24.8	28.2	35.2	33.9
L6	11:45:40	1.4	5.6	13.5	3.9	15.8	17.8	24.7	16.5	19.1	20.8	23.6	24.1	24.8	28.1	35.2	33.8
L7	11:47:39	1.6	5.4	13.6	4.1	15.9	18.5	25.1	17.0	19.2	20.9	24.2	24.2	26.3	29.3	38.2	37.0
L7	11:48:40	1.3	5.4	13.7	4.2	15.9	18.6	25.3	17.4	19.0	21.1	24.1	24.8	26.2	29.7	38.3	37.0
L7	11:50:38	1.4	5.5	13.4	4.2	15.8	18.2	25.1	17.2	19.3	20.9	24.0	24.3	26.4	29.1	37.9	37.0
L8	11:52:39	1.3	5.3	13.8	4.1	16.2	19.0	25.5	17.8	19.7	22.0	25.1	25.3	27.8	30.6	42.0	39.9
L8	11:53:38	1.6	5.5	13.8	4.1	16.2	18.8	25.4	17.4	19.0	22.0	25.1	25.3	27.7	30.9	41.8	39.9
L8	11:55:40	1.4	5.3	13.9	4.3	16.1	19.3	25.8	17.8	19.1	22.2	25.1	25.5	27.7	30.7	41.4	39.9
L9	11:57:34	1.4	5.4	14.1	4.4	16.5	19.6	25.8	17.8	19.5	23.1	26.4	27.7	28.9	31.8	45.9	43.8
L9	11:58:33	1.4	5.5	13.9	4.4	16.6	19.5	25.9	17.3	19.9	23.0	26.3	27.5	29.2	31.8	45.6	43.6
L9	12:00:31	1.4	5.4	14.1	4.5	16.4	19.4	25.9	18.3	20.1	22.9	26.4	26.9	29.0	31.8	45.4	43.4
L10	12:02:27	1.4	5.5	14.3	4.5	17.0	20.0	26.4	17.9	20.1	24.7	28.2	29.0	30.0	33.6	49.6	48.0
L10	12:03:31	1.4	5.3	14.1	4.5	17.0	20.1	26.5	17.7	20.3	24.1	27.8	28.4	30.5	33.7	50.0	47.4
L10	12:05:27	1.3	5.4	14.6	4.8	17.1	20.1	26.5	18.5	21.2	24.6	27.8	29.0	30.6	33.5	49.7	47.3
L11	12:07:20	1.4	5.6	15.6	5.5	19.1	23.2	30.6	21.5	28.3	31.8	38.3	38.6	41.7	44.5	77.2	67.4
L11	12:08:19	1.5	5.5	15.4	5.7	19.3	23.4	31.0	22.0	30.0	32.8	39.3	39.4	42.9	45.9	78.8	68.9
L11	12:10:18	1.3	5.4	15.4	6.2	19.2	23.5	31.2	21.5	30.4	33.1	39.2	39.6	43.0	45.9	79.4	68.9
L12	12:12:16	1.7	5.6	16.2	5.9	20.3	24.1	32.6	23.2	33.0	37.2	43.0	44.6	47.1	49.5	85.0	75.7
L12	12:13:11	1.5	5.7	16.0	5.9	20.5	23.7	32.6	22.7	33.2	37.2	43.1	43.4	47.2	50.0	85.8	76.0
L12	12:15:12	1.8	5.8	15.9	5.7	19.9	23.6	32.6	23.5	33.4	37.2	43.0	43.4	47.4	49.7	85.0	75.6
L13	12:16:57	1.6	5.7	16.8	6.1	21.2	25.5	34.2	24.1	36.1	40.7	47.4	48.3	51.3	53.9	94.2	82.9

Table F.14 continued

VIBRATING WIRE CALCULATED STRAIN

AUC 1 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 13	VW STRN MICRO STRAIN 14	VW STRN MICRO STRAIN 15	VW STRN MICRO STRAIN 16	VW STRN MICRO STRAIN 3	VW STRN MICRO STRAIN 4	VW STRN MICRO STRAIN 17	VW STRN MICRO STRAIN 18	VW STRN MICRO STRAIN 7	VW STRN MICRO STRAIN 8	VW STRN MICRO STRAIN 35	VW STRN MICRO STRAIN 36	VW STRN MICRO STRAIN 21	VW STRN MICRO STRAIN 22	VW STRN MICRO STRAIN 41	VW STRN MICRO STRAIN 42
L13	12:17:55	1.7	5.8	16.6	6.2	21.2	25.4	34.2	24.2	36.3	40.3	47.2	49.2	51.4	53.9	94.0	82.6
L13	12:19:56	1.7	5.6	16.3	6.4	20.9	25.2	34.1	23.7	36.3	40.8	47.5	49.4	51.4	53.5	93.0	82.7
L14	12:21:56	1.8	5.8	17.1	7.0	22.2	27.2	35.6	25.7	38.9	44.3	51.5	51.6	55.6	57.3	101.3	89.4
L14	12:22:57	1.7	5.7	17.2	6.7	22.1	26.9	35.6	25.4	39.7	44.2	51.6	51.7	55.5	57.1	101.1	89.5
L14	12:24:56	1.7	5.9	17.0	7.0	21.7	27.0	35.7	25.7	39.8	44.2	51.6	51.6	55.5	57.9	101.3	89.8
L15	12:26:58	1.8	5.7	17.2	7.6	22.9	27.8	36.8	26.2	42.5	47.1	55.3	55.1	60.0	60.6	107.8	96.0
L15	12:27:54	1.9	5.9	17.2	7.4	22.6	27.9	36.6	25.9	42.9	47.6	55.4	55.1	60.2	61.0	108.3	95.9
L15	12:29:53	1.9	5.8	17.0	7.4	22.3	27.5	36.4	26.5	43.1	47.5	55.5	54.5	60.0	60.6	108.1	95.9
L16	12:32:00	2.0	6.0	17.8	8.2	22.8	29.0	37.9	27.5	47.1	51.0	59.7	58.8	64.5	64.2	114.7	101.9
L16	12:33:00	2.0	5.9	17.7	8.3	23.0	28.4	37.5	27.5	46.2	51.1	59.2	58.6	64.3	64.2	114.9	102.3
L16	12:35:02	1.9	5.7	17.6	7.9	22.8	28.4	37.5	27.6	46.4	50.7	59.4	59.3	64.4	64.3	114.7	101.8
L17	12:36:54	2.2	6.0	18.4	8.8	23.6	29.8	38.5	28.3	50.0	54.7	63.3	61.8	68.6	67.6	120.3	107.8
L17	12:37:54	2.1	5.9	18.3	8.5	23.6	29.3	38.4	28.1	50.1	54.4	63.4	62.1	68.7	67.3	121.0	107.8
L17	12:39:52	1.9	6.0	18.4	8.7	23.3	29.3	38.3	28.0	50.7	54.4	63.0	62.4	68.5	66.7	120.2	107.0
L18	12:41:41	2.2	6.0	19.0	9.5	24.2	29.7	39.4	29.2	53.8	57.5	66.4	65.2	72.5	70.4	126.9	112.6
L18	12:42:43	1.9	5.9	19.1	9.5	23.9	29.6	39.3	29.0	53.6	57.8	67.1	64.9	72.7	70.0	127.1	112.2
L18	12:44:40	2.1	6.1	18.7	8.8	23.5	29.9	38.9	28.5	53.7	57.7	66.2	64.6	72.6	69.7	127.3	112.2
L19	12:46:31	2.2	6.1	19.4	9.7	24.5	30.9	40.1	29.9	55.8	60.2	70.7	68.2	76.5	72.5	134.0	116.7
L19	12:47:30	2.3	6.2	19.4	10.0	24.6	30.7	40.0	29.4	56.4	60.0	70.4	68.2	76.5	72.7	133.9	116.4
L19	12:49:31	2.0	6.2	19.1	9.5	24.1	30.4	39.8	29.3	56.0	59.7	70.0	68.5	76.7	72.5	134.1	115.6
L20	12:51:23	2.0	6.2	19.9	10.0	25.1	31.8	40.7	30.9	59.0	63.7	73.3	71.0	80.4	75.3	140.8	119.6
L20	12:52:23	2.4	6.4	19.7	9.9	24.6	31.7	40.4	30.8	59.4	64.3	73.2	70.8	80.7	75.6	140.8	119.3
L20	12:54:23	2.1	6.5	19.9	10.0	24.6	31.2	40.5	29.9	59.3	63.5	73.4	70.9	81.0	75.0	140.9	118.9
L21	12:56:20	2.4	6.8	20.0	11.0	25.4	32.9	41.2	30.8	62.3	66.9	77.4	74.5	85.9	78.0	149.1	122.7
L21	12:57:21	2.3	6.7	20.2	10.5	25.4	32.8	41.0	31.4	63.0	67.6	77.7	74.6	86.2	78.5	149.3	122.0
L21	12:59:19	2.6	6.6	20.5	10.4	25.1	32.5	40.7	31.3	62.4	67.3	77.8	74.9	86.4	77.9	150.0	121.2
L22	13:01:13	2.6	7.4	22.4	13.1	27.4	34.0	41.6	33.0	70.1	73.9	86.5	81.7	94.9	84.6	157.6	132.8
L22	13:02:14	2.9	7.6	22.7	14.1	28.0	35.3	41.7	33.9	71.6	73.0	86.2	82.6	95.9	85.1	158.0	133.9
L22	13:04:12	3.7	8.4	24.8	16.7	29.4	35.9	41.5	34.5	72.8	73.2	88.2	83.0	98.8	85.8	160.9	136.2
L23	13:06:42	5.8	10.0	26.6	21.8	33.6	39.3	45.0	38.5	74.1	75.6	91.5	83.5	103.2	87.5	162.5	142.0
L23	13:07:38	6.8	10.9	26.8	25.0	34.6	40.2	45.8	39.5	74.9	77.0	95.2	84.2	104.2	88.8	164.5	141.8
L23	13:09:37	8.6	11.3	28.6	28.5	38.4	42.9	48.2	41.5	76.3	78.0	95.5	83.7	104.0	85.1	158.3	137.3
L23A	13:14:06	8.6	11.2	25.9	25.7	34.8	39.2	45.8	39.7	72.9	76.1	91.4	81.0	100.9	84.9	157.5	134.2
U1	13:18:33	6.3	8.0	20.8	20.0	27.1	31.4	35.7	32.1	57.0	59.7	67.3	59.7	72.0	63.7	110.0	91.9
U2	13:23:45	5.3	7.4	18.3	17.7	24.1	28.1	31.7	28.1	50.8	52.9	59.3	53.4	62.5	55.6	98.5	78.8
U3	13:28:15	4.3	5.5	14.9	14.2	19.3	23.8	26.1	23.1	42.6	43.7	47.6	43.2	49.8	45.0	80.1	61.7
U4	13:32:13	2.4	4.2	10.6	9.5	13.0	16.0	17.8	16.1	30.6	29.8	32.3	30.1	33.2	30.7	55.1	39.9
U5	13:36:30	1.6	2.3	6.1	5.3	8.2	9.5	10.5	10.4	18.3	18.5	19.8	18.7	20.2	19.3	34.1	22.7
U6	13:40:40	1.0	1.5	4.0	3.4	5.0	6.6	6.9	6.7	12.1	12.1	12.9	11.0	14.0	12.6	20.9	14.4
U7	13:44:28	-0.2	0.2	0.3	-0.4	-0.3	0.3	-0.1	0.3	1.1	0.0	0.2	-1.2	0.4	-0.3	0.0	-0.4
U7A	13:47:27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NOTE: LOAD U7A USED AS BASELINE FOR STRAIN RESPONSE TO LOADING. LOAD L0 INCLUDES STRAIN CAUSED BY RESIDUAL DRIVING STRESSES.

Table F.14 continued

VIBRATING WIRE CALCULATED STRAIN (4 MINUTE READINGS)

AUC 1 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 13	VW STRN MICRO STRAIN 14	VW STRN MICRO STRAIN 15	VW STRN MICRO STRAIN 16	VW STRN MICRO STRAIN 3	VW STRN MICRO STRAIN 4	VW STRN MICRO STRAIN 17	VW STRN MICRO STRAIN 18	VW STRN MICRO STRAIN 7	VW STRN MICRO STRAIN 8	VW STRN MICRO STRAIN 35	VW STRN MICRO STRAIN 36	VW STRN MICRO STRAIN 21	VW STRN MICRO STRAIN 22	VW STRN MICRO STRAIN 41	VW STRN MICRO STRAIN 42
L0	11:14:32	1.3	5.2	12.8	3.5	15.0	17.6	23.6	15.8	17.7	19.0	21.9	21.9	23.6	26.3	26.7	27.8
L1	11:20:44	1.5	5.3	13.0	3.5	15.2	17.8	23.6	15.8	17.3	19.4	21.9	22.1	23.4	26.4	27.4	28.2
L2	11:25:36	1.4	5.2	13.1	3.8	15.1	17.1	23.7	15.9	17.8	19.0	21.7	22.3	23.5	26.3	27.0	28.6
L3	11:30:41	1.1	5.1	13.2	3.6	15.2	17.7	24.0	15.9	18.3	19.3	21.7	22.3	23.2	26.7	28.9	28.7
L4	11:35:31	1.3	5.4	13.2	3.7	15.2	17.0	24.0	16.1	18.7	19.4	22.3	22.9	24.0	26.8	30.5	29.1
L5	11:40:35	1.0	5.2	13.0	4.0	15.6	17.0	24.2	16.4	18.0	19.9	22.3	23.4	23.8	27.3	32.7	31.5
L6	11:45:40	1.4	5.6	13.5	3.9	15.8	17.8	24.7	16.5	19.1	20.8	23.6	24.1	24.8	28.1	35.2	33.8
L7	11:50:38	1.4	5.5	13.4	4.2	15.8	18.2	25.1	17.2	19.3	20.9	24.0	24.3	26.4	29.1	37.9	37.0
L8	11:55:40	1.4	5.3	13.9	4.3	16.1	19.3	25.8	17.8	19.1	22.2	25.1	25.5	27.7	30.7	41.4	39.9
L9	12:00:31	1.4	5.4	14.1	4.5	16.4	19.4	25.9	18.3	20.1	22.9	26.4	26.9	29.0	31.8	45.4	43.4
L10	12:05:27	1.3	5.4	14.6	4.8	17.1	20.1	26.5	18.5	21.2	24.6	27.8	29.0	30.6	33.5	49.7	47.3
L11	12:10:18	1.3	5.4	15.4	6.2	19.2	23.5	31.2	21.5	30.4	33.1	39.2	39.6	43.0	45.9	79.4	68.9
L12	12:15:12	1.8	5.8	15.9	5.7	19.9	23.6	32.6	23.5	33.4	37.2	43.0	43.4	47.4	49.7	85.0	75.6
L13	12:19:56	1.7	5.6	16.3	6.4	20.9	25.2	34.1	23.7	36.3	40.8	47.5	49.4	51.4	53.5	93.0	82.7
L14	12:24:56	1.7	5.9	17.0	7.0	21.7	27.0	35.7	25.7	39.8	44.2	51.6	51.6	55.5	57.9	101.3	89.8
L15	12:29:53	1.9	5.8	17.0	7.4	22.3	27.5	36.4	26.5	43.1	47.5	55.5	54.5	60.0	60.6	108.1	95.9
L16	12:35:02	1.9	5.7	17.6	7.9	22.8	28.4	37.5	27.6	46.4	50.7	59.4	59.3	64.4	64.3	114.7	101.8
L17	12:39:52	1.9	6.0	18.4	8.7	23.3	29.3	38.3	28.0	50.7	54.4	63.0	62.4	68.5	66.7	120.2	107.0
L18	12:44:40	2.1	6.1	18.7	8.8	23.5	29.9	38.9	28.5	53.7	57.7	66.2	64.6	72.6	69.7	127.3	112.2
L19	12:49:31	2.0	6.2	19.1	9.5	24.1	30.4	39.8	29.3	56.0	59.7	70.0	68.5	76.7	72.5	134.1	115.6
L20	12:54:23	2.1	6.5	19.9	10.0	24.6	31.2	40.5	29.9	59.3	63.5	73.4	70.9	81.0	75.0	140.9	118.9
L21	12:59:19	2.6	6.6	20.5	10.4	25.1	32.5	40.7	31.3	62.4	67.3	77.8	74.9	86.4	77.9	150.0	121.2
L22	13:04:12	3.7	8.4	24.8	16.7	29.4	35.9	41.5	34.5	72.8	73.2	88.2	83.0	98.8	85.8	160.9	136.2
L23	13:09:37	8.6	11.3	28.6	28.5	38.4	42.9	48.2	41.5	76.3	78.0	95.5	83.7	104.0	85.1	158.3	137.3
L23A	13:14:06	8.6	11.2	25.9	25.7	34.8	39.2	45.8	39.7	72.9	76.1	91.4	81.0	100.9	84.9	157.5	134.2
U1	13:18:33	6.3	8.0	20.8	20.0	27.1	31.4	35.7	32.1	57.0	59.7	67.3	59.7	72.0	63.7	110.0	91.9
U2	13:23:45	5.3	7.4	18.3	17.7	24.1	28.1	31.7	28.1	50.8	52.9	59.3	53.4	62.5	55.6	98.5	78.8
U3	13:28:15	4.3	5.5	14.9	14.2	19.3	23.8	26.1	23.1	42.6	43.7	47.6	43.2	49.8	45.0	80.1	61.7
U4	13:32:13	2.4	4.2	10.6	9.5	13.0	16.0	17.8	16.1	30.6	29.8	32.3	30.1	33.2	30.7	55.1	39.9
U5	13:36:30	1.6	2.3	6.1	5.3	8.2	9.5	10.5	10.4	18.3	18.5	19.8	18.7	20.2	19.3	34.1	22.7
U6	13:40:40	1.0	1.5	4.0	3.4	5.0	6.6	6.9	6.7	12.1	12.1	12.9	11.0	14.0	12.6	20.9	14.4
U7	13:44:28	-0.2	0.2	0.3	-0.4	-0.3	0.3	-0.1	0.3	1.1	0.0	0.2	-1.2	0.4	-0.3	0.0	-0.4
U7A	13:47:27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table F.14 continued

AVERAGE STRAIN AT EACH GAGE LEVEL, INTEGRATED PILE COMPRESSION & COMPARISON WITH TELLTALE MEASUREMENT (4 MINUTE READINGS)

AUC 1 LOAD NUMBER	AVG VW MICRO STRAIN SURFACE	AVG VW MICRO STRAIN 13+14	AVG VW MICRO STRAIN 15+16	AVG VW MICRO STRAIN 3+4	AVG VW MICRO STRAIN 17+18	AVG VW MICRO STRAIN 7+8	AVG VW MICRO STRAIN 35+36	AVG VW MICRO STRAIN 21+22	AVG VW MICRO STRAIN 41+42	EST'D. MICRO STRAIN CELL TOP	PILE COMPRESSION SG MSMT. INCHES	TT MSMT. INCHES	ABS.DIFF. SG-TT INCHES
L0	0.0	3.2	8.2	16.3	19.7	18.4	21.9	25.0	27.3	17.4	0.0111	0.0000	0.0111
L1	0.0	3.4	8.3	16.5	19.7	18.3	22.0	24.9	27.8	20.7	0.0112	0.0000	0.0112
L2	0.0	3.3	8.4	16.1	19.8	18.4	22.0	24.9	27.8	23.9	0.0112	0.0001	0.0110
L3	0.0	3.1	8.4	16.4	20.0	18.8	22.0	25.0	28.8	27.0	0.0113	0.0002	0.0111
L4	0.0	3.3	8.5	16.1	20.1	19.1	22.6	25.4	29.8	30.4	0.0115	0.0003	0.0112
L5	0.0	3.1	8.5	16.3	20.3	18.9	22.9	25.5	32.1	34.6	0.0117	0.0005	0.0112
L6	0.0	3.5	8.7	16.8	20.6	19.9	23.9	26.4	34.5	39.0	0.0122	0.0008	0.0113
L7	0.0	3.5	8.8	17.0	21.1	20.1	24.1	27.7	37.5	43.6	0.0125	0.0012	0.0114
L8	0.0	3.4	9.1	17.7	21.8	20.6	25.3	29.2	40.7	48.4	0.0131	0.0016	0.0115
L9	0.0	3.4	9.3	17.9	22.1	21.5	26.6	30.4	44.4	53.4	0.0136	0.0022	0.0115
L10	0.0	3.3	9.7	18.6	22.5	22.9	28.4	32.1	48.5	58.8	0.0144	0.0028	0.0116
L11	0.0	3.4	10.8	21.4	26.4	31.7	39.4	44.4	74.2	77.9	0.0191	0.0066	0.0125
L12	0.0	3.8	10.8	21.8	28.0	35.3	43.2	48.5	80.3	84.6	0.0206	0.0080	0.0127
L13	0.0	3.6	11.3	23.0	28.9	38.6	48.5	52.4	87.8	92.1	0.0222	0.0094	0.0128
L14	0.0	3.8	12.0	24.4	30.7	42.0	51.6	56.7	95.5	99.7	0.0239	0.0108	0.0132
L15	0.0	3.8	12.2	24.9	31.5	45.3	55.0	60.3	102.0	106.5	0.0253	0.0122	0.0131
L16	0.0	3.8	12.8	25.6	32.5	48.5	59.3	64.3	108.3	113.2	0.0268	0.0135	0.0133
L17	0.0	3.9	13.5	26.3	33.2	52.6	62.7	67.6	113.6	119.3	0.0282	0.0146	0.0136
L18	0.0	4.1	13.8	26.7	33.7	55.7	65.4	71.1	119.8	125.9	0.0294	0.0157	0.0137
L19	0.0	4.1	14.3	27.2	34.5	57.8	69.2	74.6	124.9	131.8	0.0306	0.0168	0.0139
L20	0.0	4.3	14.9	27.9	35.2	61.4	72.1	78.0	129.9	137.7	0.0319	0.0179	0.0140
L21	0.0	4.6	15.4	28.8	36.0	64.8	76.4	82.2	135.6	144.0	0.0334	0.0194	0.0141
L22	0.0	6.0	20.8	32.6	38.0	73.0	85.6	92.3	148.6	155.0	0.0376	0.0229	0.0147
L23	0.0	9.9	28.6	40.6	44.9	77.2	89.6	94.5	147.8	155.8	0.0409	0.0264	0.0145
L23A	0.0	9.9	25.8	37.0	42.7	74.5	86.2	92.9	145.8	151.3	0.0393	0.0249	0.0144
U1	0.0	7.2	20.4	29.3	33.9	58.4	63.5	67.8	101.0	100.9	0.0295	0.0169	0.0126
U2	0.0	6.3	18.0	26.1	29.9	51.9	56.3	59.1	88.6	87.4	0.0260	0.0141	0.0120
U3	0.0	4.9	14.6	21.5	24.6	43.1	45.4	47.4	70.9	69.1	0.0212	0.0100	0.0112
U4	0.0	3.3	10.1	14.5	17.0	30.2	31.2	32.0	47.5	46.0	0.0145	0.0042	0.0103
U5	0.0	1.9	5.7	8.9	10.5	18.4	19.2	19.7	28.4	27.6	0.0088	-0.0003	0.0091
U6	0.0	1.2	3.7	5.8	6.8	12.1	11.9	13.3	17.6	17.4	0.0057	-0.0028	0.0085
U7	0.0	-0.0	-0.0	0.0	0.1	0.5	-0.5	0.1	-0.2	-0.1	0.0000	-0.0055	0.0055
U7A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0000	-0.0056	0.0056
ELEV. FT	53.21	43.25	35.25	28.25	21.75	11.75	2.75	-0.25	-8.25	-8.75			

Table F.14 continued

VIBRATING WIRE CALCULATED AVERAGE LOADS (4 MINUTE READINGS)

LA = 8.00 ft
LB = 1.38 ft
B = 18.00 in
ES = 27500.0 ksi

ACA = 317.115 si
ACB = 313.155 si
ASA = 3.538 si
ASB = 7.498 si

AUC 1 LOAD NUMBER	AVG VW LOAD TONS SURFACE	AVG VW LOAD TONS 13+14	AVG VW LOAD TONS 15+16	AVG VW LOAD TONS 3+4	AVG VW LOAD TONS 17+18	AVG VW LOAD TONS 7+8	AVG VW LOAD TONS 35+36	AVG VW LOAD TONS 21+22	AVG VW LOAD TONS 41+42	OSTERBERG LOAD TONS BOTTOM	INCR. PILE MODULUS KSI	CALC. PILE A MODULUS KSI	CALC. PILE B MODULUS KSI
L0	0.0	2.08	5.24	10.43	12.60	11.75	14.04	16.00	18.75	0.0		3951.6	4242.1
L1	0.0	2.19	5.29	10.59	12.63	11.75	14.09	15.93	19.12	5.6	63245.6	3951.6	4242.1
L2	0.0	2.10	5.40	10.30	12.68	11.79	14.08	15.92	19.11	11.8	-1888996.8	3951.6	4242.1
L3	0.0	1.99	5.37	10.53	12.78	12.06	14.10	15.97	19.80	16.3	27983.3	3951.6	4242.1
L4	0.0	2.12	5.42	10.30	12.86	12.20	14.48	16.27	20.50	21.5	31317.4	3951.6	4242.1
L5	0.0	1.98	5.45	10.44	12.99	12.13	14.65	16.36	22.08	26.8	14137.3	3951.6	4242.1
L6	0.0	2.21	5.59	10.76	13.18	12.75	15.28	16.93	23.70	32.3	14485.4	3951.6	4242.1
L7	0.0	2.21	5.62	10.89	13.53	12.85	15.45	17.76	25.74	37.4	10638.8	3951.6	4242.1
L8	0.0	2.15	5.82	11.32	13.94	13.20	16.18	18.71	27.94	42.5	9825.9	3951.6	4242.1
L9	0.0	2.17	5.94	11.45	14.18	13.74	17.06	19.46	30.51	47.6	8401.7	3951.6	4242.1
L10	0.0	2.13	6.19	11.91	14.39	14.65	18.17	20.52	33.33	52.9	7896.7	3951.6	4242.1
L11	0.0	2.15	6.92	13.68	16.87	20.32	25.22	28.44	50.96	58.1	1262.5	3951.6	4242.1
L12	0.0	2.42	6.91	13.93	17.94	22.61	27.65	31.07	55.20	63.3	5242.9	3951.6	4242.1
L13	0.0	2.33	7.27	14.75	18.50	24.69	31.02	33.56	60.35	68.4	4148.0	3951.6	4242.1
L14	0.0	2.45	7.70	15.61	19.65	26.88	33.04	36.31	65.64	73.5	4107.2	3951.6	4242.1
L15	0.0	2.44	7.82	15.94	20.14	29.00	35.19	38.61	70.09	78.5	4787.2	3951.6	4242.1
L16	0.0	2.44	8.16	16.40	20.82	31.07	37.99	41.18	74.40	83.8	5213.0	3951.6	4242.1
L17	0.0	2.53	8.67	16.83	21.23	33.64	40.14	43.28	78.06	88.8	5791.8	3951.6	4242.1
L18	0.0	2.61	8.82	17.09	21.57	35.65	41.87	45.54	82.31	93.9	5085.9	3951.6	4242.1
L19	0.0	2.62	9.17	17.44	22.11	37.03	44.31	47.74	85.82	98.9	6037.9	3951.6	4242.1
L20	0.0	2.77	9.55	17.86	22.55	39.31	46.18	49.94	89.27	104.0	6241.1	3951.6	4242.1
L21	0.0	2.95	9.89	18.45	23.05	41.51	48.88	52.60	93.18	109.0	5493.5	3951.6	4242.1
L22	0.0	3.87	13.30	20.89	24.34	46.75	54.79	59.10	102.10	114.2	2458.9	3951.6	4242.1
L23	0.0	6.37	18.31	26.01	28.72	49.40	57.37	60.52	101.55	116.8	-20008.4	3951.6	4242.1
L23A	0.0	6.32	16.52	23.69	27.36	47.68	55.18	59.49	100.22	110.5		3951.6	4242.1
U1	0.0	4.58	13.08	18.73	21.71	37.36	40.65	43.41	69.39	69.2		3951.6	4242.1
U2	0.0	4.06	11.53	16.71	19.11	33.20	36.05	37.81	60.92	58.6		3951.6	4242.1
U3	0.0	3.13	9.33	13.77	15.74	27.61	29.07	30.35	48.69	45.4		3951.6	4242.1
U4	0.0	2.12	6.46	9.30	10.86	19.33	19.98	20.46	32.65	29.8		3951.6	4242.1
U5	0.0	1.25	3.65	5.68	6.70	11.79	12.31	12.64	19.52	18.0		3951.6	4242.1
U6	0.0	0.77	2.37	3.72	4.38	7.75	7.65	8.52	12.12	11.6		3951.6	4242.1
U7	0.0	-0.00	-0.01	0.01	0.08	0.35	-0.34	0.04	-0.12	0.0		3951.6	4242.1
U7A	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0		3951.6	4242.1
ELEV. FT	53.21	43.25	35.25	28.25	21.75	11.75	2.75	-0.25	-8.25	-9.63	3730.6 KSI = CONCRETE MODULUS		

Table F.14 continued

INTEGRATED MOVEMENT AT VW STRAIN GAGE (4 MINUTE READINGS)

AUC 1 LOAD NUMBER	VW MOVEMENT INCHES SURFACE	VW MOVEMENT INCHES 13+14	VW MOVEMENT INCHES 15+16	VW MOVEMENT INCHES 3+4	VW MOVEMENT INCHES 17+18	VW MOVEMENT INCHES 7+8	VW MOVEMENT INCHES 35+36	VW MOVEMENT INCHES 21+22	VW MOVEMENT INCHES 41+42	VW MOVEMENT INCHES CELL TOP
L0	-0.0111	-0.0109	-0.0104	-0.0093	-0.0079	-0.0057	-0.0035	-0.0026	-0.0001	0.0000
L1	-0.0112	-0.0110	-0.0104	-0.0094	-0.0080	-0.0057	-0.0035	-0.0027	-0.0001	0.0000
L2	-0.0110	-0.0108	-0.0103	-0.0093	-0.0079	-0.0056	-0.0034	-0.0025	-0.0000	0.0001
L3	-0.0111	-0.0109	-0.0103	-0.0093	-0.0079	-0.0056	-0.0033	-0.0025	0.0001	0.0002
L4	-0.0112	-0.0110	-0.0104	-0.0094	-0.0080	-0.0056	-0.0034	-0.0025	0.0001	0.0003
L5	-0.0112	-0.0110	-0.0104	-0.0094	-0.0080	-0.0056	-0.0033	-0.0025	0.0003	0.0005
L6	-0.0063	-0.0061	-0.0055	-0.0045	-0.0030	-0.0006	0.0018	0.0027	0.0056	0.0058
L7	-0.0064	-0.0062	-0.0056	-0.0045	-0.0030	-0.0005	0.0019	0.0028	0.0059	0.0062
L8	-0.0065	-0.0063	-0.0057	-0.0046	-0.0030	-0.0005	0.0020	0.0030	0.0063	0.0066
L9	-0.0015	-0.0013	-0.0007	0.0005	0.0020	0.0047	0.0073	0.0083	0.0119	0.0122
L10	-0.0016	-0.0014	-0.0008	0.0004	0.0020	0.0047	0.0075	0.0086	0.0124	0.0128
L11	0.0025	0.0027	0.0034	0.0047	0.0066	0.0101	0.0139	0.0154	0.0211	0.0216
L12	0.0073	0.0076	0.0083	0.0096	0.0116	0.0154	0.0196	0.0213	0.0275	0.0280
L13	0.0072	0.0074	0.0081	0.0095	0.0116	0.0156	0.0203	0.0221	0.0289	0.0294
L14	0.0168	0.0171	0.0178	0.0193	0.0215	0.0259	0.0309	0.0329	0.0402	0.0408
L15	0.0169	0.0171	0.0179	0.0194	0.0216	0.0262	0.0317	0.0337	0.0415	0.0422
L16	0.0267	0.0269	0.0277	0.0293	0.0316	0.0364	0.0423	0.0445	0.0528	0.0535
L17	0.0264	0.0266	0.0274	0.0291	0.0314	0.0366	0.0428	0.0452	0.0539	0.0546
L18	0.0363	0.0365	0.0374	0.0391	0.0414	0.0468	0.0533	0.0558	0.0650	0.0657
L19	0.0461	0.0464	0.0473	0.0490	0.0514	0.0570	0.0638	0.0664	0.0760	0.0768
L20	0.0510	0.0512	0.0521	0.0539	0.0564	0.0622	0.0694	0.0721	0.0821	0.0829
L21	0.0659	0.0662	0.0671	0.0690	0.0715	0.0776	0.0852	0.0881	0.0985	0.0994
L22	0.1803	0.1807	0.1820	0.1842	0.1870	0.1937	0.2022	0.2054	0.2170	0.2179
L23	0.6355	0.6361	0.6380	0.6409	0.6442	0.6515	0.6605	0.6639	0.6755	0.6764
L23A	0.6956	0.6962	0.6979	0.7005	0.7036	0.7106	0.7193	0.7225	0.7340	0.7349
U1	0.6974	0.6978	0.6991	0.7012	0.7037	0.7092	0.7158	0.7181	0.7262	0.7269
U2	0.6980	0.6984	0.6996	0.7014	0.7036	0.7085	0.7144	0.7164	0.7235	0.7241
U3	0.6988	0.6991	0.7000	0.7015	0.7033	0.7074	0.7122	0.7139	0.7195	0.7200
U4	0.6897	0.6899	0.6906	0.6916	0.6928	0.6957	0.6990	0.7001	0.7039	0.7042
U5	0.6909	0.6910	0.6914	0.6920	0.6928	0.6945	0.6965	0.6972	0.6995	0.6997
U6	0.6865	0.6866	0.6868	0.6872	0.6877	0.6889	0.6902	0.6906	0.6921	0.6922
U7	0.6845	0.6845	0.6845	0.6845	0.6845	0.6845	0.6845	0.6845	0.6845	0.6845
U7A	0.6845	0.6845	0.6845	0.6845	0.6845	0.6845	0.6845	0.6845	0.6845	0.6845

Table F.14 continued

INTEGRATED MOVEMENT AT SEGMENT CL (4 MINUTE READINGS)

AUC 1 LOAD NUMBER CL.ELEV.	AVG VW MOVEMENT INCHES 48.23	AVG VW MOVEMENT INCHES 39.25	AVG VW MOVEMENT INCHES 31.75	AVG VW MOVEMENT INCHES 25.00	AVG VW MOVEMENT INCHES 16.75	AVG VW MOVEMENT INCHES 7.25	AVG VW MOVEMENT INCHES 1.25	AVG VW MOVEMENT INCHES -4.25
L0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0006	0.0022	0.0041
L7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0007	0.0023	0.0044
L8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0008	0.0025	0.0047
L9	0.0000	0.0000	0.0000	0.0013	0.0034	0.0060	0.0078	0.0101
L10	0.0000	0.0000	0.0000	0.0012	0.0033	0.0061	0.0080	0.0105
L11	0.0026	0.0030	0.0040	0.0056	0.0083	0.0120	0.0146	0.0182
L12	0.0075	0.0079	0.0090	0.0106	0.0135	0.0175	0.0204	0.0244
L13	0.0073	0.0077	0.0088	0.0106	0.0136	0.0180	0.0212	0.0255
L14	0.0169	0.0174	0.0186	0.0204	0.0237	0.0284	0.0319	0.0365
L15	0.0170	0.0175	0.0187	0.0205	0.0239	0.0290	0.0327	0.0376
L16	0.0268	0.0273	0.0285	0.0305	0.0340	0.0394	0.0434	0.0486
L17	0.0265	0.0270	0.0283	0.0303	0.0340	0.0397	0.0440	0.0495
L18	0.0364	0.0370	0.0382	0.0403	0.0441	0.0501	0.0546	0.0604
L19	0.0463	0.0468	0.0481	0.0502	0.0542	0.0604	0.0651	0.0712
L20	0.0511	0.0517	0.0530	0.0552	0.0593	0.0658	0.0708	0.0771
L21	0.0660	0.0667	0.0681	0.0703	0.0746	0.0814	0.0866	0.0933
L22	0.1805	0.1814	0.1831	0.1856	0.1903	0.1979	0.2038	0.2112
L23	0.6358	0.6370	0.6394	0.6425	0.6479	0.6560	0.6622	0.6697
L23A	0.6959	0.6970	0.6992	0.7021	0.7071	0.7150	0.7209	0.7283
U1	0.6976	0.6984	0.7002	0.7024	0.7064	0.7125	0.7170	0.7222
U2	0.6982	0.6990	0.7005	0.7025	0.7061	0.7114	0.7154	0.7200
U3	0.6989	0.6996	0.7008	0.7024	0.7054	0.7098	0.7130	0.7167
U4	0.6898	0.6902	0.6911	0.6922	0.6942	0.6973	0.6995	0.7020
U5	0.6910	0.6912	0.6917	0.6924	0.6936	0.6955	0.6969	0.6984
U6	0.6866	0.6867	0.6870	0.6875	0.6883	0.6895	0.6904	0.6914
U7	0.6845	0.6845	0.6845	0.6845	0.6845	0.6845	0.6845	0.6845
U7A	0.6845	0.6845	0.6845	0.6845	0.6845	0.6845	0.6845	0.6845

Table F.14 continued

AVERAGE SEGMENT SHEAR STRESS (4 MINUTE READINGS)

AUC 1 LOAD NUMBER CL.ELEV.	AVG VW SHEAR TSF 48.23	AVG VW SHEAR TSF 39.25	AVG VW SHEAR TSF 31.75	AVG VW SHEAR TSF 25.00	AVG VW SHEAR TSF 16.75	AVG VW SHEAR TSF 7.25	AVG VW SHEAR TSF 1.25	AVG VW SHEAR TSF -4.25
L0	0.018	0.050	0.107	0.039	-0.031	0.026	0.092	0.041
L1	0.020	0.048	0.110	0.036	-0.031	0.027	0.086	0.050
L2	0.019	0.052	0.100	0.045	-0.031	0.026	0.086	0.050
L3	0.017	0.054	0.107	0.041	-0.028	0.021	0.088	0.063
L4	0.019	0.052	0.100	0.049	-0.027	0.026	0.083	0.072
L5	0.017	0.056	0.102	0.049	-0.031	0.030	0.078	0.103
L6	0.021	0.054	0.107	0.046	-0.024	0.031	0.075	0.125
L7	0.021	0.055	0.109	0.051	-0.028	0.032	0.112	0.150
L8	0.020	0.060	0.115	0.051	-0.029	0.039	0.124	0.176
L9	0.020	0.062	0.115	0.054	-0.024	0.045	0.117	0.214
L10	0.019	0.068	0.120	0.047	-0.012	0.049	0.114	0.250
L11	0.020	0.083	0.145	0.065	0.041	0.074	0.162	0.453
L12	0.024	0.077	0.151	0.086	0.061	0.077	0.174	0.486
L13	0.023	0.086	0.162	0.080	0.087	0.101	0.125	0.542
L14	0.025	0.093	0.172	0.087	0.104	0.098	0.165	0.595
L15	0.024	0.095	0.177	0.091	0.131	0.098	0.173	0.639
L16	0.024	0.103	0.180	0.097	0.155	0.112	0.161	0.676
L17	0.026	0.112	0.178	0.096	0.190	0.104	0.158	0.708
L18	0.027	0.113	0.181	0.098	0.218	0.099	0.188	0.750
L19	0.027	0.120	0.181	0.103	0.232	0.118	0.174	0.777
L20	0.030	0.125	0.182	0.104	0.263	0.111	0.192	0.803
L21	0.033	0.128	0.187	0.102	0.291	0.120	0.190	0.829
L22	0.048	0.180	0.164	0.072	0.357	0.133	0.223	0.879
L23	0.090	0.232	0.167	0.053	0.328	0.131	0.159	0.838
L23A	0.089	0.196	0.154	0.078	0.322	0.122	0.223	0.832
U1	0.060	0.161	0.118	0.060	0.244	0.044	0.137	0.525
U2	0.052	0.139	0.107	0.045	0.218	0.036	0.081	0.465
U3	0.036	0.113	0.089	0.034	0.182	0.011	0.055	0.366
U4	0.019	0.074	0.051	0.024	0.125	-0.004	0.011	0.237
U5	0.004	0.034	0.032	0.010	0.068	-0.007	0.002	0.127
U6	-0.004	0.017	0.016	0.000	0.040	-0.018	0.032	0.059
U7	-0.016	-0.017	-0.016	-0.014	-0.012	-0.029	0.005	-0.020
U7A	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016

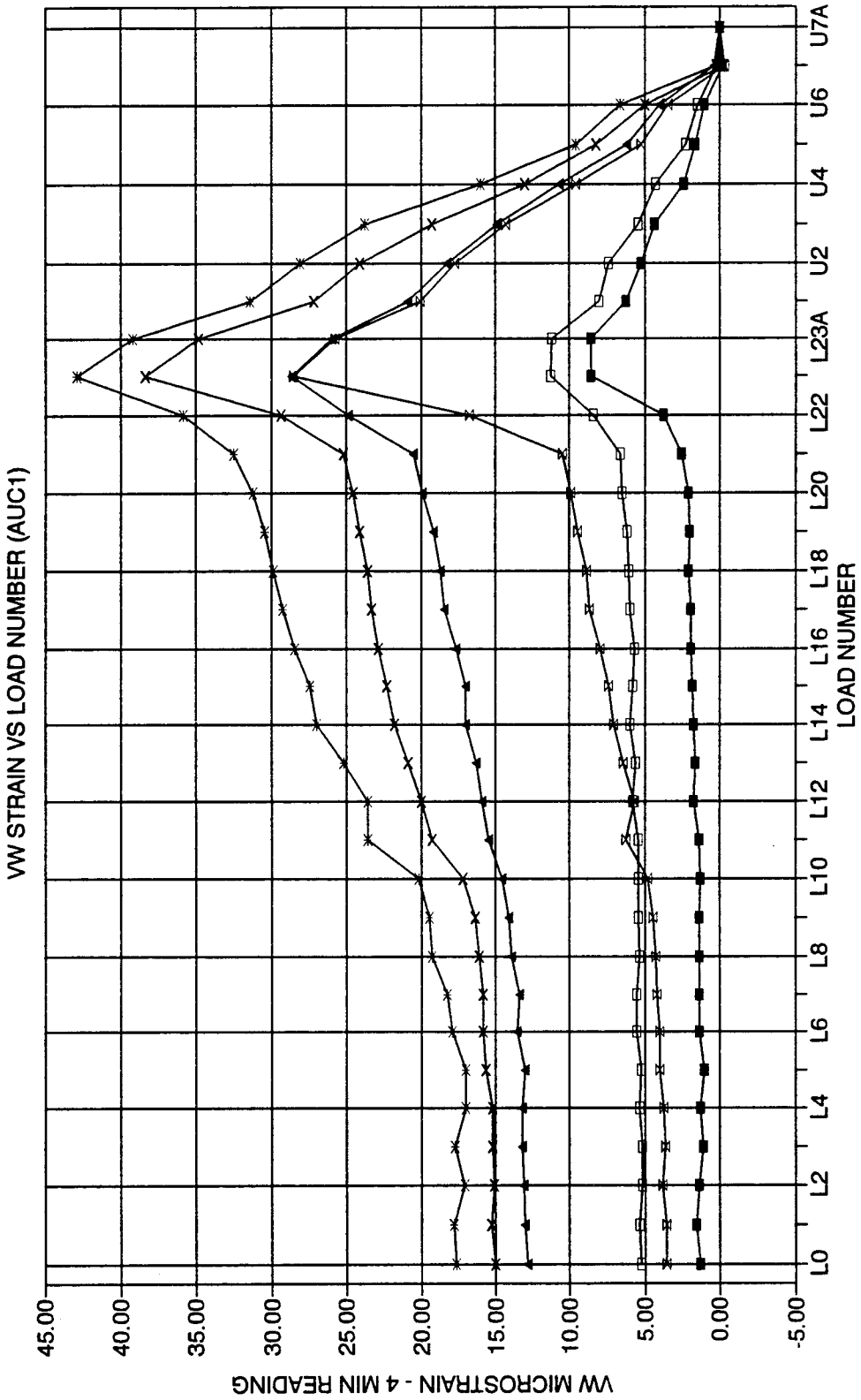

Figure F.65 Strain at Pile Top: Aucilla Load Test 1

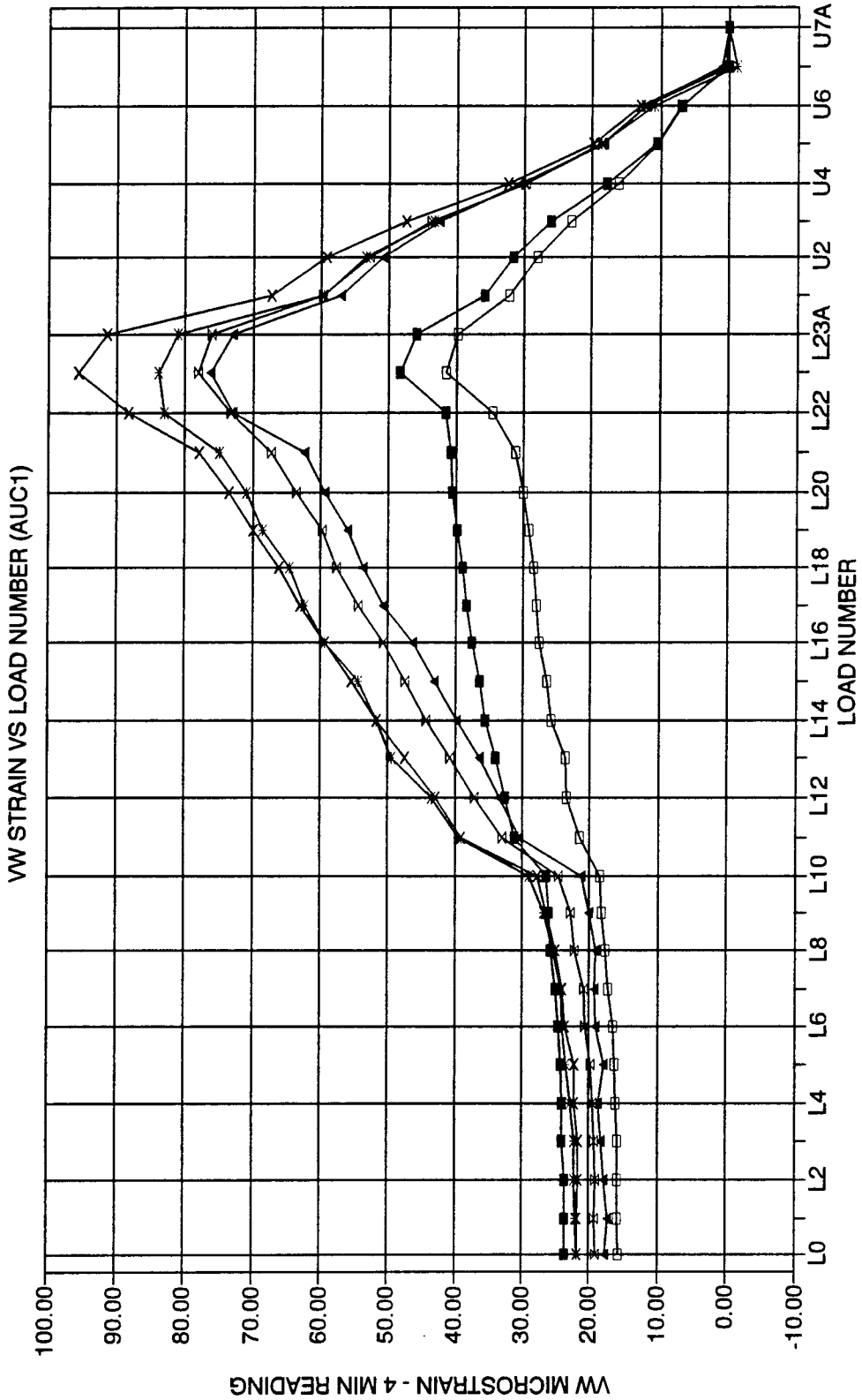

Figure F.66 Strain at Pile Middle: Aucilla Load Test 1

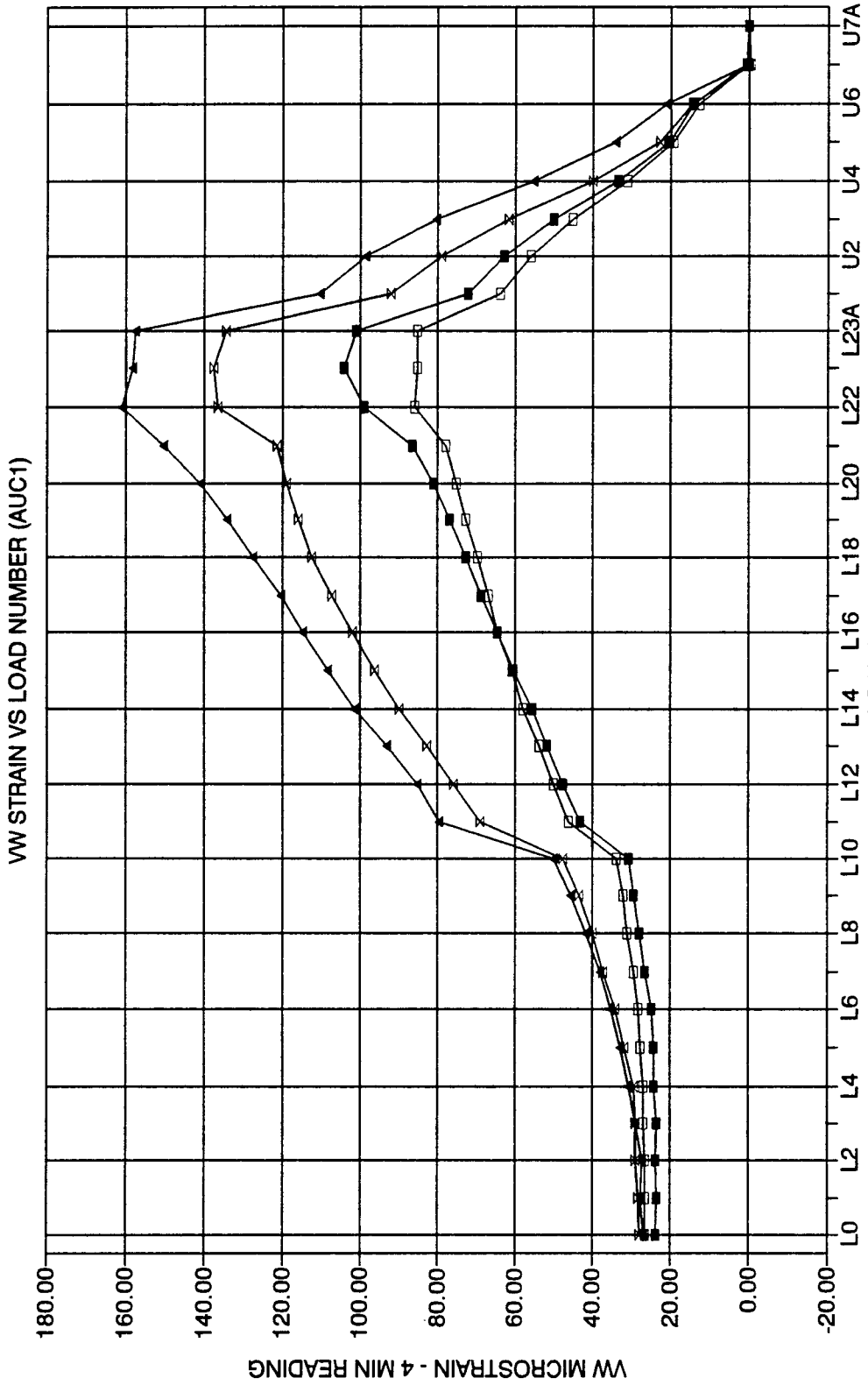

Figure F.67 Strain at Pile Bottom: Aucilla Load Test 1

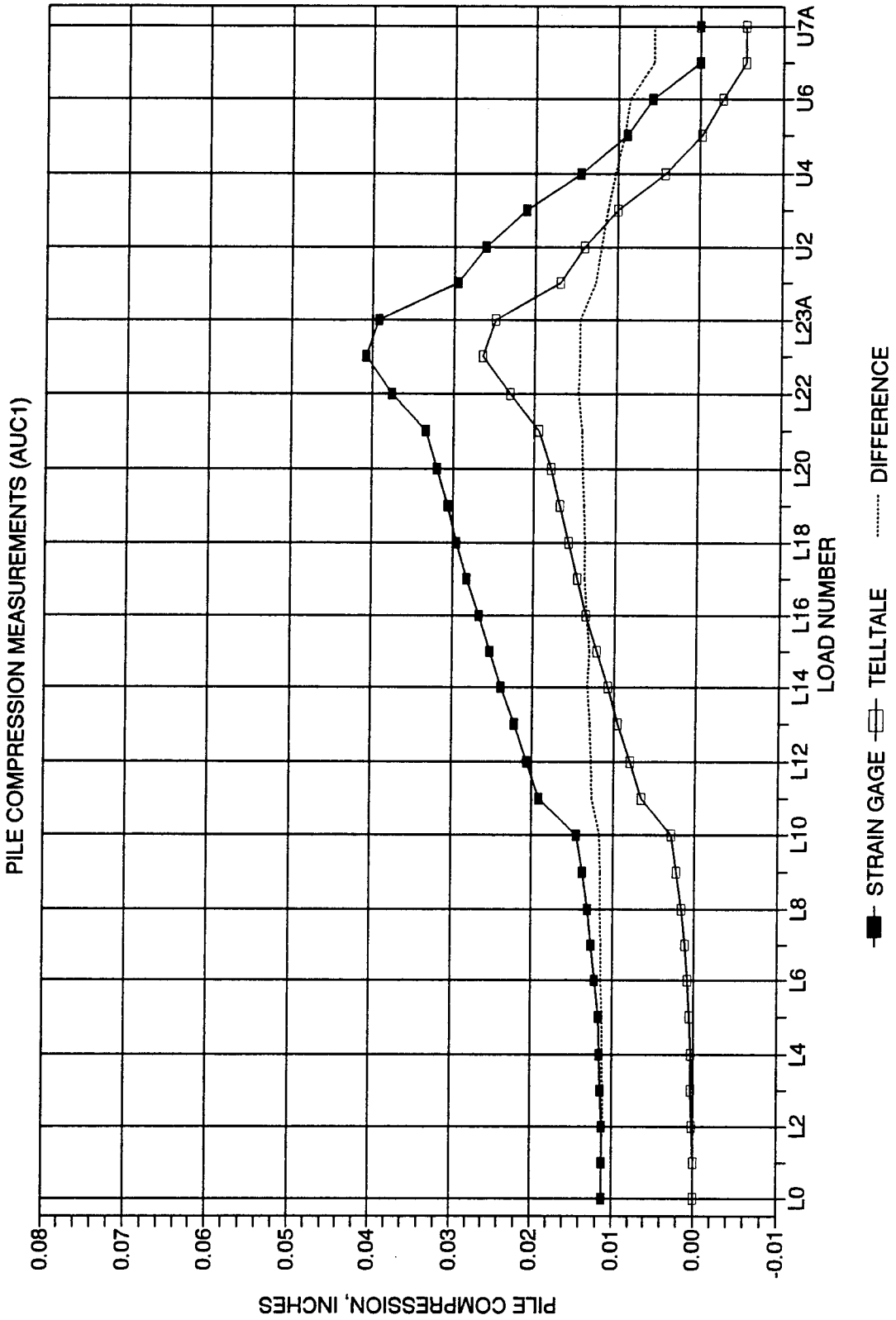

Figure F.68 Pile Compression Measurements: Aucilla Load Test 1

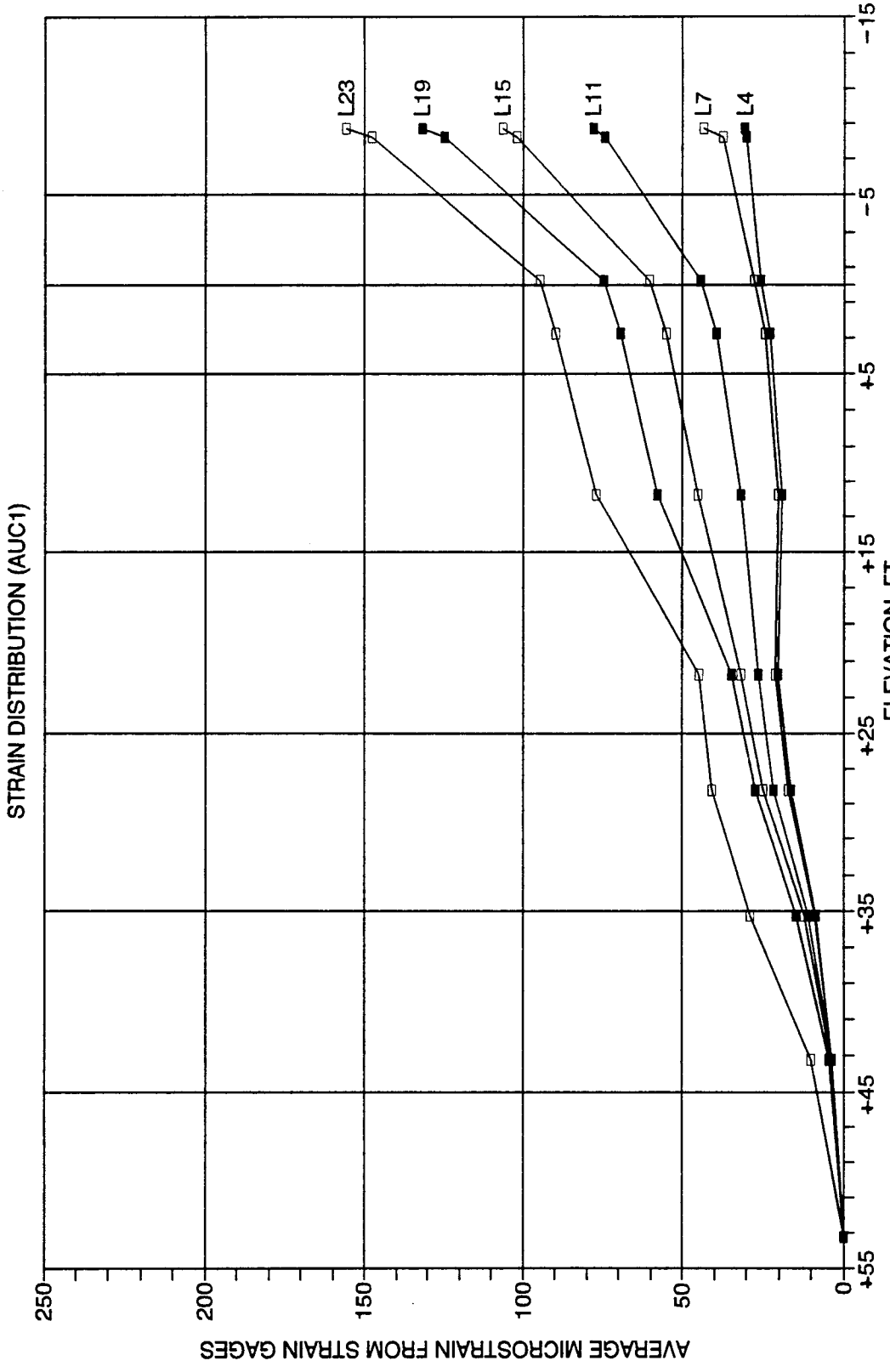

Figure F.69 Pile Strain Distribution: Aucilla Load Test 1

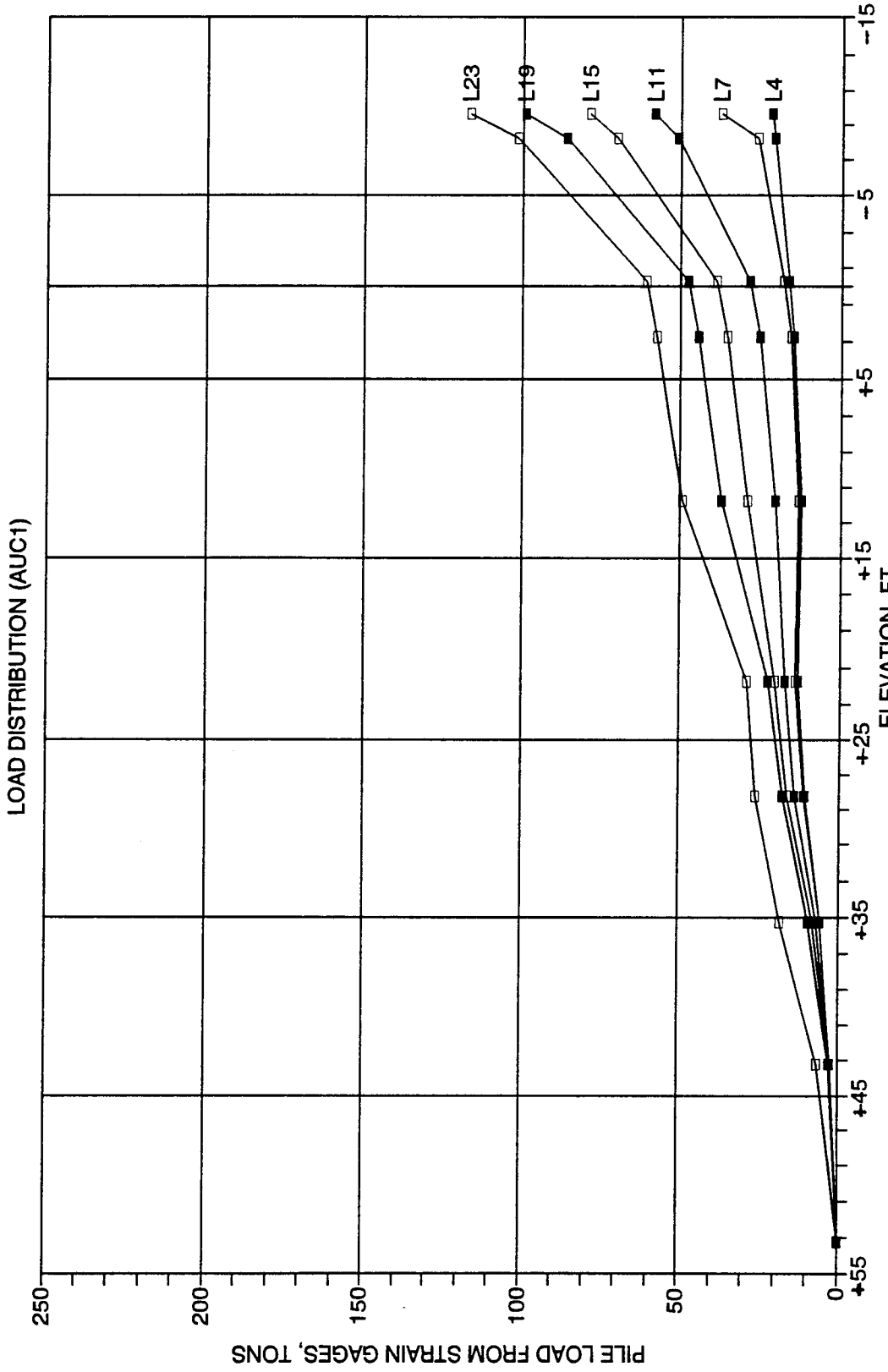

Figure F.70 Pile Load Distribution: Aucilla Load Test 1

Table F.15 Strain Analyses: Aucilla Load Test 2

VIBRATING WIRE INSTRUMENT READINGS - STRAIN

AUC 2 LOAD NUMBER	TIME	VW STRN FREQ^2 KHZ^2 13	VW STRN FREQ^2 KHZ^2 14	VW STRN FREQ^2 KHZ^2 15	VW STRN FREQ^2 KHZ^2 16	VW STRN FREQ^2 KHZ^2 3	VW STRN FREQ^2 KHZ^2 4	VW STRN FREQ^2 KHZ^2 17	VW STRN FREQ^2 KHZ^2 18	VW STRN FREQ^2 KHZ^2 7	VW STRN FREQ KHZ^2 8	VW STRN FREQ KHZ^2 35	VW STRN FREQ KHZ^2 36	VW STRN FREQ KHZ^2 21	VW STRN FREQ KHZ^2 22	VW STRN FREQ KHZ^2 41	VW STRN FREQ KHZ^2 42
L0	10:26:32	0.76066	0.74441	0.71458	0.72517	0.72735	0.74707	0.76010	0.67410	0.81292	0.67944	0.74939	0.71875	0.71431	0.69975	0.87114	0.78635
L0	11:06:37	0.76066	0.74445	0.71456	0.72505	0.72727	0.74700	0.76007	0.67407	0.81256	0.67940	0.74940	0.71860	0.71409	0.69965	0.87113	0.78634
L1	11:12:09	0.76050	0.74430	0.71429	0.72475	0.72692	0.74667	0.75975	0.67366	0.81205	0.67871	0.74840	0.71739	0.71312	0.69846	0.86750	0.78400
L1	11:13:10	0.76061	0.74430	0.71431	0.72488	0.72689	0.74663	0.75969	0.67394	0.81213	0.67863	0.74839	0.71735	0.71312	0.69846	0.86740	0.78396
L1	11:15:09	0.76047	0.74432	0.71433	0.72489	0.72700	0.74656	0.75967	0.67384	0.81208	0.67858	0.74829	0.71754	0.71308	0.69862	0.86733	0.78392
L2	11:17:22	0.76050	0.74419	0.71405	0.72452	0.72647	0.74611	0.75914	0.67340	0.81141	0.67763	0.74679	0.71562	0.71115	0.69660	0.86320	0.78054
L2	11:18:19	0.76045	0.74419	0.71411	0.72449	0.72661	0.74614	0.75904	0.67330	0.81137	0.67765	0.74671	0.71576	0.71132	0.69658	0.86326	0.78059
L2	11:20:18	0.76049	0.74421	0.71408	0.72464	0.72652	0.74621	0.75911	0.67338	0.81130	0.67759	0.74675	0.71597	0.71121	0.69655	0.86317	0.78054
L3	11:22:14	0.76038	0.74405	0.71367	0.72408	0.72592	0.74548	0.75819	0.67252	0.81007	0.67611	0.74463	0.71383	0.70876	0.69407	0.85839	0.77701
L3	11:23:14	0.76027	0.74411	0.71360	0.72402	0.72598	0.74543	0.75808	0.67263	0.80990	0.67626	0.74452	0.71370	0.70876	0.69386	0.85836	0.77685
L3	11:25:14	0.76031	0.74406	0.71365	0.72405	0.72586	0.74551	0.75811	0.67251	0.80986	0.67611	0.74460	0.71365	0.70872	0.69404	0.85822	0.77692
L4	11:27:11	0.76019	0.74393	0.71321	0.72360	0.72515	0.74462	0.75705	0.67183	0.80819	0.67431	0.74208	0.71130	0.70595	0.69107	0.85332	0.77261
L4	11:28:10	0.76013	0.74383	0.71316	0.72371	0.72525	0.74461	0.75699	0.67183	0.80790	0.67431	0.74208	0.71139	0.70593	0.69114	0.85324	0.77257
L4	11:30:10	0.76014	0.74381	0.71311	0.72357	0.72519	0.74460	0.75694	0.67163	0.80802	0.67424	0.74196	0.71114	0.70588	0.69108	0.85312	0.77261
L5	11:32:18	0.76017	0.74357	0.71258	0.72283	0.72434	0.74385	0.75584	0.67098	0.80618	0.67223	0.73925	0.70834	0.70310	0.68826	0.84844	0.76856
L5	11:33:15	0.76012	0.74360	0.71263	0.72292	0.72427	0.74381	0.75576	0.67087	0.80607	0.67212	0.73927	0.70826	0.70304	0.68813	0.84849	0.76848
L5	11:35:15	0.76018	0.74357	0.71258	0.72289	0.72425	0.74377	0.75576	0.67090	0.80573	0.67197	0.73910	0.70823	0.70314	0.68803	0.84826	0.76842
L6	11:37:12	0.76003	0.74353	0.71228	0.72261	0.72362	0.74313	0.75505	0.67022	0.80469	0.67097	0.73769	0.70721	0.70144	0.68653	0.84577	0.76617
L6	11:38:12	0.75990	0.74346	0.71235	0.72262	0.72364	0.74314	0.75500	0.67025	0.80489	0.67085	0.73762	0.70715	0.70141	0.68640	0.84583	0.76609
L6	11:40:12	0.75996	0.74344	0.71228	0.72256	0.72371	0.74301	0.75497	0.67025	0.80503	0.67091	0.73774	0.70704	0.70143	0.68635	0.84560	0.76607
L7	11:42:08	0.75998	0.74341	0.71198	0.72210	0.72337	0.74251	0.75441	0.66958	0.80384	0.66985	0.73637	0.70561	0.69991	0.68496	0.84365	0.76403
L7	11:43:06	0.75974	0.74341	0.71197	0.72221	0.72341	0.74251	0.75438	0.66946	0.80357	0.66989	0.73636	0.70575	0.69986	0.68500	0.84360	0.76401
L7	11:45:09	0.76006	0.74342	0.71194	0.72205	0.72332	0.74255	0.75430	0.66941	0.80402	0.66968	0.73630	0.70563	0.70000	0.68497	0.84362	0.76398
L8	11:47:07	0.75989	0.74341	0.71163	0.72204	0.72278	0.74198	0.75363	0.66906	0.80283	0.66859	0.73485	0.70436	0.69836	0.68341	0.84077	0.76174
L8	11:48:07	0.75976	0.74346	0.71164	0.72228	0.72281	0.74193	0.75355	0.66901	0.80263	0.66851	0.73480	0.70422	0.69827	0.68324	0.84067	0.76170
L8	11:50:08	0.75971	0.74340	0.71157	0.72219	0.72278	0.74190	0.75349	0.66892	0.80282	0.66827	0.73480	0.70409	0.69838	0.68318	0.84095	0.76176
L9	11:52:10	0.75977	0.74344	0.71136	0.72185	0.72219	0.74148	0.75290	0.66844	0.80117	0.66737	0.73345	0.70291	0.69675	0.68177	0.83854	0.75953
L9	11:53:09	0.75961	0.74337	0.71131	0.72192	0.72211	0.74140	0.75288	0.66843	0.80110	0.66740	0.73334	0.70285	0.69676	0.68189	0.83863	0.75956
L9	11:55:08	0.75968	0.74336	0.71130	0.72179	0.72215	0.74142	0.75285	0.66835	0.80107	0.66735	0.73335	0.70289	0.69669	0.68177	0.83849	0.75951
L10	11:57:06	0.75959	0.74332	0.71104	0.72140	0.72195	0.74083	0.75208	0.66791	0.79991	0.66608	0.73189	0.70154	0.69518	0.68044	0.83605	0.75729
L10	11:58:06	0.75958	0.74334	0.71107	0.72136	0.72178	0.74083	0.75213	0.66796	0.80018	0.66593	0.73186	0.70131	0.69519	0.68013	0.83603	0.75731
L10	12:00:04	0.75963	0.74341	0.71109	0.72131	0.72177	0.74074	0.75208	0.66796	0.79980	0.66591	0.73181	0.70141	0.69532	0.68040	0.83586	0.75724
L11	12:02:09	0.75949	0.74336	0.71077	0.72102	0.72139	0.74026	0.75144	0.66723	0.79890	0.66478	0.73023	0.69994	0.69358	0.67859	0.83375	0.75513
L11	12:03:08	0.75959	0.74328	0.71074	0.72108	0.72127	0.74017	0.75137	0.66710	0.79884	0.66476	0.73029	0.69991	0.69355	0.67861	0.83369	0.75513
L11	12:05:08	0.75955	0.74329	0.71072	0.72094	0.72116	0.74018	0.75134	0.66720	0.79869	0.66461	0.73014	0.70008	0.69353	0.67870	0.83383	0.75507
L12	12:07:09	0.75953	0.74331	0.71047	0.72054	0.72072	0.73968	0.75064	0.66693	0.79768	0.66365	0.72883	0.69869	0.69201	0.67738	0.83148	0.75296
L12	12:08:11	0.75947	0.74332	0.71041	0.72069	0.72070	0.73971	0.75060	0.66684	0.79772	0.66359	0.72873	0.69855	0.69208	0.67721	0.83106	0.75296
L12	12:10:08	0.75949	0.74326	0.71043	0.72076	0.72070	0.73961	0.75058	0.66656	0.79768	0.66350	0.72871	0.69854	0.69192	0.67720	0.83082	0.75283
L13	12:12:02	0.75950	0.74320	0.71014	0.72065	0.72039	0.73910	0.74994	0.66615	0.79650	0.66216	0.72713	0.69746	0.69041	0.67579	0.82886	0.75082
L13	12:13:04	0.75954	0.74320	0.71018	0.72062	0.72030	0.73911	0.74997	0.66615	0.79640	0.66223	0.72721	0.69714	0.69037	0.67587	0.82878	0.75075
L13	12:15:03	0.75944	0.74324	0.71011	0.72066	0.72036	0.73903	0.74983	0.66634	0.79617	0.66206	0.72717	0.69722	0.69029	0.67590	0.82883	0.75083
L14	12:16:58	0.75947	0.74315	0.70991	0.72025	0.71987	0.73858	0.74924	0.66543	0.79542	0.66100	0.72571	0.69595	0.68875	0.67436	0.82661	0.74880
L14	12:17:56	0.75951	0.74318	0.70996	0.72017	0.71984	0.73855	0.74921	0.66512	0.79560	0.66090	0.72574	0.69583	0.68874	0.67424	0.82655	0.74877

Table F.15 continued

VIBRATING WIRE INSTRUMENT READINGS - STRAIN

AUC 2 LOAD NUMBER	TIME	VW STRN FREQ^2 KHZ^2 13	VW STRN FREQ^2 KHZ^2 14	VW STRN FREQ^2 KHZ^2 15	VW STRN FREQ^2 KHZ^2 16	VW STRN FREQ^2 KHZ^2 3	VW STRN FREQ^2 KHZ^2 4	VW STRN FREQ^2 KHZ^2 17	VW STRN FREQ^2 KHZ^2 18	VW STRN FREQ^2 KHZ^2 7	VW STRN FREQ KHZ^2 8	VW STRN FREQ KHZ^2 35	VW STRN FREQ KHZ^2 36	VW STRN FREQ KHZ^2 21	VW STRN FREQ KHZ^2 22	VW STRN FREQ KHZ^2 41	VW STRN FREQ KHZ^2 42
L14	12:19:56	0.75943	0.74316	0.70991	0.72022	0.71983	0.73844	0.74912	0.66534	0.79562	0.66070	0.72563	0.69575	0.68872	0.67431	0.82643	0.74869
L15	12:21:48	0.75941	0.74313	0.70970	0.72033	0.71936	0.73792	0.74852	0.66525	0.79387	0.65968	0.72417	0.69457	0.68707	0.67300	0.82439	0.74684
L15	12:22:48	0.75942	0.74310	0.70970	0.72015	0.71938	0.73796	0.74852	0.66512	0.79386	0.65959	0.72413	0.69443	0.68710	0.67307	0.82456	0.74683
L15	12:24:48	0.75950	0.74313	0.70979	0.72035	0.71949	0.73787	0.74849	0.66523	0.79386	0.65951	0.72411	0.69447	0.68700	0.67306	0.82441	0.74669
L16	12:26:53	0.75938	0.74306	0.70952	0.72010	0.71909	0.73751	0.74789	0.66473	0.79286	0.65854	0.72268	0.69337	0.68551	0.67163	0.82243	0.74475
L16	12:27:57	0.75941	0.74309	0.70952	0.72020	0.71908	0.73747	0.74787	0.66468	0.79281	0.65837	0.72246	0.69318	0.68554	0.67161	0.82252	0.74477
L16	12:29:50	0.75935	0.74313	0.70952	0.72006	0.71886	0.73753	0.74784	0.66460	0.79276	0.65845	0.72256	0.69332	0.68546	0.67164	0.82251	0.74474
L17	12:31:44	0.75934	0.74313	0.70932	0.71983	0.71890	0.73713	0.74727	0.66384	0.79134	0.65713	0.72122	0.69215	0.68399	0.67031	0.82021	0.74285
L17	12:32:46	0.75942	0.74309	0.70937	0.71989	0.71879	0.73716	0.74723	0.66391	0.79171	0.65706	0.72123	0.69196	0.68399	0.67019	0.82026	0.74290
L17	12:34:44	0.75937	0.74311	0.70940	0.71995	0.71885	0.73709	0.74722	0.66444	0.79177	0.65704	0.72115	0.69202	0.68394	0.67018	0.82016	0.74286
L18	12:36:48	0.75941	0.74306	0.70921	0.71957	0.71859	0.73661	0.74669	0.66390	0.79064	0.65607	0.71978	0.69091	0.68242	0.66935	0.81800	0.74121
L18	12:37:47	0.75942	0.74305	0.70922	0.71976	0.71857	0.73658	0.74673	0.66396	0.79064	0.65606	0.71977	0.69102	0.68229	0.66923	0.81807	0.74129
L18	12:39:47	0.75947	0.74304	0.70925	0.71982	0.71871	0.73664	0.74679	0.66403	0.79064	0.65604	0.71973	0.69089	0.68237	0.66926	0.81797	0.74134
L19	12:41:45	0.75939	0.74311	0.70909	0.71939	0.71823	0.73619	0.74621	0.66365	0.78954	0.65489	0.71856	0.68988	0.68093	0.66850	0.81595	0.73974
L19	12:42:43	0.75943	0.74306	0.70913	0.71958	0.71832	0.73612	0.74632	0.66376	0.78955	0.65496	0.71853	0.68993	0.68107	0.66853	0.81595	0.73983
L19	12:44:43	0.75932	0.74311	0.70913	0.71968	0.71848	0.73624	0.74635	0.66378	0.78962	0.65490	0.71855	0.68987	0.68109	0.66822	0.81585	0.74001
L20	12:46:34	0.75933	0.74312	0.70896	0.71938	0.71816	0.73594	0.74572	0.66328	0.78887	0.65407	0.71745	0.68893	0.67979	0.66733	0.81388	0.73870
L20	12:47:34	0.75938	0.74315	0.70904	0.71925	0.71807	0.73602	0.74588	0.66326	0.78891	0.65404	0.71734	0.68892	0.67974	0.66753	0.81393	0.73883
L20	12:49:32	0.75937	0.74314	0.70908	0.71960	0.71827	0.73619	0.74590	0.66344	0.78888	0.65396	0.71754	0.68902	0.67979	0.66747	0.81380	0.73903
L21	12:51:24	0.75938	0.74308	0.70889	0.71917	0.71801	0.73571	0.74564	0.66318	0.78784	0.65326	0.71604	0.68813	0.67852	0.66646	0.81181	0.73822
L21	12:52:23	0.75936	0.74306	0.70896	0.71943	0.71799	0.73576	0.74566	0.66315	0.78747	0.65323	0.71615	0.68824	0.67842	0.66673	0.81174	0.73844
L21	12:54:23	0.75931	0.74311	0.70898	0.71957	0.71821	0.73585	0.74561	0.66336	0.78770	0.65320	0.71620	0.68822	0.67847	0.66717	0.81163	0.73871
L22	12:56:18	0.75933	0.74301	0.70868	0.71906	0.71772	0.73553	0.74509	0.66306	0.78673	0.65189	0.71446	0.68680	0.67647	0.66547	0.80952	0.73693
L22	12:57:17	0.75933	0.74308	0.70870	0.71908	0.71779	0.73556	0.74519	0.66305	0.78687	0.65169	0.71452	0.68680	0.67657	0.66533	0.80944	0.73663
L22	12:59:16	0.75929	0.74305	0.70871	0.71904	0.71779	0.73558	0.74522	0.66313	0.78671	0.65164	0.71435	0.68677	0.67603	0.66537	0.80880	0.73639
L23	13:01:18	0.75924	0.74298	0.70855	0.71910	0.71743	0.73536	0.74508	0.66269	0.78588	0.65110	0.71326	0.68622	0.67525	0.66422	0.80831	0.73501
L23	13:02:18	0.75917	0.74301	0.70849	0.71918	0.71751	0.73540	0.74517	0.66284	0.78584	0.65116	0.71321	0.68630	0.67501	0.66438	0.80840	0.73510
L23	13:04:17	0.75906	0.74295	0.70843	0.71893	0.71752	0.73539	0.74538	0.66275	0.78586	0.65124	0.71312	0.68667	0.67510	0.66478	0.80839	0.73463
L24	13:06:36	0.75846	0.74306	0.70838	0.71768	0.71684	0.73535	0.74545	0.66268	0.78656	0.65210	0.71328	0.68776	0.67512	0.66572	0.80952	0.73359
L24	13:07:17	0.75815	0.74316	0.70852	0.71683	0.71642	0.73525	0.74541	0.66258	0.78674	0.65216	0.71333	0.68824	0.67564	0.66635	0.80986	0.73504
L24A	13:08:56	0.75751	0.74339	0.70843	0.71598	0.71592	0.73515	0.74503	0.66241	0.78719	0.65230	0.71334	0.68844	0.67588	0.66713	0.81142	0.73416
L24B	13:11:37	0.75717	0.74326	0.70849	0.71591	0.71633	0.73526	0.74535	0.66298	0.78789	0.65266	0.71440	0.68938	0.67654	0.66758	0.81206	0.73584
U1	13:16:10	0.75804	0.74378	0.71042	0.71735	0.71905	0.73802	0.74868	0.66579	0.79277	0.65773	0.72224	0.69643	0.68616	0.67531	0.82635	0.74965
U2	13:20:31	0.75828	0.74418	0.71110	0.71861	0.71994	0.73914	0.75003	0.66675	0.79471	0.66001	0.72521	0.69895	0.68973	0.67807	0.83080	0.75439
U3	13:24:28	0.75870	0.74463	0.71226	0.71992	0.72171	0.74080	0.75208	0.66841	0.79773	0.66325	0.72982	0.70286	0.69487	0.68220	0.83821	0.76100
U4	13:28:30	0.75898	0.74506	0.71307	0.72051	0.72263	0.74196	0.75342	0.66945	0.79978	0.66543	0.73261	0.70531	0.69800	0.68477	0.84230	0.76498
U5	13:32:38	0.75943	0.74540	0.71420	0.72209	0.72436	0.74379	0.75559	0.67123	0.80293	0.66890	0.73684	0.70907	0.70244	0.68883	0.84931	0.77084
U6	13:36:34	0.75993	0.74597	0.71554	0.72320	0.72600	0.74567	0.75783	0.67314	0.80635	0.67233	0.74107	0.71286	0.70682	0.69267	0.85560	0.77662
U7	13:40:50	0.76041	0.74643	0.71692	0.72468	0.72792	0.74810	0.76027	0.67508	0.81010	0.67616	0.74571	0.71725	0.71152	0.69708	0.86332	0.78238
U8	13:44:36	0.76071	0.74685	0.71839	0.72619	0.72992	0.75016	0.76301	0.67724	0.81444	0.68076	0.75055	0.72172	0.71621	0.70204	0.87068	0.78778
U8A	13:47:36	0.76080	0.74688	0.71837	0.72621	0.72983	0.75025	0.76296	0.67735	0.81461	0.68081	0.75064	0.72191	0.71625	0.70213	0.87065	0.78790

Table F.15 continued

VIBRATING WIRE INSTRUMENT READINGS - TEMPERATURE

AUC 2 LOAD NUMBER	TIME	VW STRN TEMP DEG C 13	VW STRN TEMP DEG C 14	VW STRN TEMP DEG C 15	VW STRN TEMP DEG C 16	VW STRN TEMP DEG C 3	VW STRN TEMP DEG C 4	VW STRN TEMP DEG C 17	VW STRN TEMP DEG C 18	VW STRN TEMP DEG C 7	VW STRN TEMP DEG C 8	VW STRN TEMP DEG C 35	VW STRN TEMP DEG C 36	VW STRN TEMP DEG C 21	VW STRN TEMP DEG C 22	VW STRN TEMP DEG C 41	VW STRN TEMP DEG C 42
L0	10:26:32	17.613	17.584	19.327	19.327	20.410	20.320	20.502	20.471	20.350	20.410	20.350	20.320	20.350	20.289	20.532	20.532
L0	11:06:37	17.613	17.584	19.327	19.327	20.410	20.320	20.532	20.471	20.350	20.410	20.350	20.320	20.350	20.289	20.532	20.532
L1	11:12:09	17.613	17.584	19.327	19.327	20.410	20.320	20.502	20.471	20.350	20.410	20.350	20.320	20.350	20.289	20.532	20.532
L1	11:13:10	17.613	17.584	19.327	19.327	20.410	20.320	20.532	20.471	20.350	20.410	20.350	20.320	20.350	20.289	20.532	20.532
L1	11:15:09	17.613	17.584	19.327	19.327	20.410	20.320	20.502	20.471	20.350	20.410	20.350	20.320	20.350	20.289	20.532	20.532
L2	11:17:22	17.613	17.584	19.327	19.327	20.410	20.320	20.532	20.471	20.350	20.410	20.350	20.320	20.350	20.289	20.532	20.532
L2	11:18:19	17.613	17.584	19.327	19.327	20.410	20.320	20.502	20.471	20.350	20.410	20.350	20.320	20.350	20.289	20.532	20.532
L2	11:20:18	17.613	17.584	19.327	19.327	20.410	20.320	20.532	20.471	20.350	20.410	20.350	20.320	20.350	20.289	20.532	20.532
L3	11:22:14	17.613	17.584	19.327	19.327	20.410	20.320	20.532	20.471	20.350	20.410	20.350	20.320	20.350	20.289	20.532	20.532
L3	11:23:14	17.613	17.584	19.327	19.327	20.410	20.320	20.532	20.471	20.350	20.410	20.350	20.320	20.350	20.289	20.532	20.532
L3	11:25:14	17.613	17.584	19.327	19.327	20.410	20.320	20.532	20.471	20.350	20.410	20.350	20.320	20.350	20.289	20.532	20.532
L4	11:27:11	17.613	17.584	19.327	19.327	20.410	20.320	20.532	20.471	20.350	20.410	20.350	20.320	20.350	20.289	20.532	20.532
L4	11:28:10	17.613	17.584	19.327	19.327	20.410	20.320	20.532	20.471	20.350	20.410	20.350	20.320	20.350	20.289	20.532	20.532
L4	11:30:10	17.613	17.584	19.327	19.327	20.410	20.320	20.532	20.471	20.350	20.410	20.350	20.320	20.350	20.289	20.532	20.532
L5	11:32:18	17.613	17.584	19.327	19.327	20.410	20.320	20.532	20.471	20.350	20.410	20.350	20.320	20.350	20.320	20.532	20.532
L5	11:33:15	17.613	17.584	19.327	19.327	20.410	20.320	20.532	20.471	20.350	20.410	20.320	20.320	20.350	20.289	20.532	20.532
L5	11:35:15	17.613	17.584	19.327	19.327	20.410	20.320	20.502	20.471	20.350	20.410	20.320	20.320	20.350	20.320	20.532	20.532
L6	11:37:12	17.613	17.584	19.327	19.327	20.410	20.320	20.532	20.471	20.350	20.410	20.350	20.320	20.350	20.289	20.532	20.532
L6	11:38:12	17.613	17.584	19.327	19.327	20.410	20.350	20.532	20.471	20.350	20.410	20.350	20.320	20.350	20.320	20.532	20.532
L6	11:40:12	17.613	17.584	19.327	19.327	20.410	20.320	20.532	20.471	20.350	20.410	20.350	20.320	20.350	20.289	20.532	20.532
L7	11:42:08	17.613	17.584	19.327	19.327	20.410	20.320	20.532	20.471	20.350	20.410	20.350	20.320	20.350	20.289	20.532	20.532
L7	11:43:06	17.613	17.584	19.327	19.327	20.410	20.350	20.532	20.471	20.350	20.410	20.350	20.320	20.350	20.289	20.532	20.532
L7	11:45:09	17.613	17.584	19.327	19.327	20.410	20.320	20.532	20.471	20.350	20.410	20.350	20.320	20.350	20.320	20.532	20.532
L8	11:47:07	17.613	17.584	19.327	19.327	20.410	20.320	20.532	20.471	20.350	20.410	20.350	20.320	20.350	20.289	20.532	20.532
L8	11:48:07	17.613	17.584	19.327	19.327	20.410	20.320	20.532	20.471	20.350	20.410	20.350	20.320	20.350	20.289	20.532	20.532
L8	11:50:08	17.613	17.584	19.327	19.327	20.410	20.320	20.532	20.471	20.350	20.410	20.350	20.320	20.350	20.289	20.532	20.532
L9	11:52:10	17.613	17.584	19.327	19.327	20.410	20.350	20.532	20.471	20.350	20.410	20.350	20.320	20.350	20.289	20.532	20.532
L9	11:53:09	17.613	17.584	19.327	19.327	20.410	20.350	20.532	20.471	20.350	20.410	20.350	20.320	20.350	20.320	20.532	20.532
L9	11:55:08	17.613	17.584	19.327	19.327	20.410	20.350	20.532	20.471	20.350	20.410	20.350	20.320	20.350	20.289	20.532	20.532
L10	11:57:06	17.613	17.584	19.327	19.327	20.410	20.320	20.532	20.471	20.350	20.410	20.350	20.320	20.350	20.320	20.532	20.532
L10	11:58:06	17.613	17.584	19.327	19.327	20.410	20.320	20.532	20.471	20.350	20.410	20.350	20.320	20.350	20.320	20.532	20.532
L10	12:00:04	17.613	17.584	19.327	19.327	20.410	20.320	20.532	20.471	20.350	20.410	20.350	20.320	20.350	20.320	20.532	20.532
L11	12:02:09	17.613	17.584	19.327	19.327	20.410	20.320	20.532	20.471	20.350	20.410	20.350	20.320	20.350	20.320	20.532	20.532
L11	12:03:08	17.613	17.584	19.327	19.327	20.410	20.350	20.532	20.471	20.350	20.410	20.350	20.320	20.350	20.320	20.532	20.532
L11	12:05:08	17.613	17.584	19.327	19.327	20.410	20.350	20.532	20.471	20.350	20.410	20.350	20.320	20.350	20.289	20.532	20.532
L12	12:07:09	17.613	17.584	19.327	19.327	20.410	20.350	20.532	20.471	20.350	20.410	20.350	20.320	20.350	20.320	20.532	20.532
L12	12:08:11	17.613	17.584	19.327	19.327	20.410	20.320	20.532	20.471	20.350	20.410	20.350	20.320	20.350	20.320	20.532	20.532
L12	12:10:08	17.613	17.584	19.327	19.327	20.410	20.350	20.532	20.471	20.350	20.410	20.350	20.320	20.350	20.320	20.532	20.532
L13	12:12:02	17.613	17.584	19.327	19.327	20.410	20.350	20.532	20.471	20.350	20.410	20.350	20.320	20.350	20.320	20.532	20.532
L13	12:13:04	17.613	17.584	19.327	19.327	20.410	20.350	20.532	20.471	20.350	20.410	20.350	20.320	20.350	20.320	20.532	20.532
L13	12:15:03	17.613	17.584	19.327	19.327	20.410	20.350	20.532	20.471	20.350	20.410	20.350	20.320	20.350	20.320	20.532	20.532
L14	12:16:58	17.613	17.584	19.327	19.327	20.410	20.350	20.532	20.471	20.350	20.410	20.350	20.320	20.350	20.320	20.532	20.532
L14	12:17:56	17.613	17.584	19.327	19.327	20.410	20.320	20.532	20.471	20.350	20.410	20.350	20.320	20.350	20.320	20.532	20.532

Table F.15 continued

VIBRATING WIRE INSTRUMENT READINGS - TEMPERATURE

AUC 2 LOAD NUMBER	TIME	VW STRN TEMP DEG C 13	VW STRN TEMP DEG C 14	VW STRN TEMP DEG C 15	VW STRN TEMP DEG C 16	VW STRN TEMP DEG C 3	VW STRN TEMP DEG C 4	VW STRN TEMP DEG C 17	VW STRN TEMP DEG C 18	VW STRN TEMP DEG C 7	VW STRN TEMP DEG C 8	VW STRN TEMP DEG C 35	VW STRN TEMP DEG C 36	VW STRN TEMP DEG C 21	VW STRN TEMP DEG C 22	VW STRN TEMP DEG C 41	VW STRN TEMP DEG C 42
L14	12:19:56	17.613	17.584	19.327	19.327	20.410	20.350	20.532	20.471	20.380	20.410	20.350	20.320	20.350	20.320	20.532	20.532
L15	12:21:48	17.613	17.584	19.327	19.327	20.410	20.350	20.532	20.471	20.350	20.410	20.350	20.320	20.350	20.320	20.532	20.532
L15	12:22:48	17.613	17.584	19.327	19.327	20.410	20.350	20.532	20.502	20.350	20.410	20.350	20.320	20.350	20.320	20.532	20.532
L15	12:24:48	17.613	17.584	19.327	19.327	20.410	20.350	20.532	20.502	20.350	20.410	20.350	20.320	20.350	20.289	20.532	20.532
L16	12:26:53	17.613	17.584	19.327	19.327	20.410	20.350	20.532	20.471	20.350	20.410	20.350	20.320	20.350	20.320	20.532	20.532
L16	12:27:57	17.613	17.584	19.327	19.327	20.410	20.350	20.532	20.502	20.350	20.410	20.350	20.320	20.350	20.320	20.532	20.532
L16	12:29:50	17.613	17.584	19.327	19.357	20.410	20.320	20.532	20.502	20.350	20.410	20.350	20.320	20.350	20.320	20.532	20.532
L17	12:31:44	17.613	17.584	19.327	19.357	20.410	20.350	20.532	20.471	20.350	20.410	20.350	20.320	20.350	20.320	20.532	20.532
L17	12:32:46	17.613	17.584	19.327	19.327	20.410	20.350	20.532	20.502	20.350	20.410	20.350	20.320	20.350	20.320	20.562	20.532
L17	12:34:44	17.613	17.584	19.327	19.327	20.410	20.350	20.532	20.502	20.350	20.410	20.350	20.320	20.350	20.320	20.532	20.532
L18	12:36:48	17.613	17.584	19.327	19.357	20.410	20.350	20.532	20.502	20.350	20.410	20.350	20.320	20.350	20.320	20.562	20.532
L18	12:37:47	17.613	17.584	19.327	19.357	20.410	20.350	20.532	20.502	20.350	20.410	20.350	20.320	20.350	20.320	20.532	20.532
L18	12:39:47	17.613	17.584	19.327	19.357	20.410	20.350	20.532	20.502	20.350	20.410	20.350	20.320	20.350	20.320	20.532	20.532
L19	12:41:45	17.613	17.584	19.327	19.357	20.410	20.350	20.532	20.502	20.350	20.410	20.350	20.320	20.350	20.289	20.532	20.532
L19	12:42:43	17.613	17.584	19.327	19.327	20.410	20.350	20.532	20.502	20.350	20.410	20.350	20.320	20.350	20.320	20.532	20.532
L19	12:44:43	17.613	17.584	19.327	19.357	20.441	20.350	20.532	20.502	20.350	20.410	20.350	20.320	20.350	20.320	20.532	20.532
L20	12:46:34	17.613	17.584	19.327	19.357	20.410	20.350	20.532	20.502	20.350	20.410	20.350	20.320	20.350	20.320	20.532	20.532
L20	12:47:34	17.612	17.582	19.325	19.355	20.409	20.348	20.530	20.469	20.348	20.409	20.378	20.318	20.348	20.318	20.560	20.530
L20	12:49:32	17.612	17.582	19.325	19.355	20.409	20.348	20.530	20.500	20.348	20.409	20.348	20.318	20.348	20.318	20.560	20.530
L21	12:51:24	17.612	17.583	19.326	19.356	20.409	20.348	20.530	20.500	20.348	20.409	20.348	20.318	20.348	20.318	20.530	20.530
L21	12:52:23	17.612	17.583	19.326	19.356	20.409	20.348	20.530	20.500	20.348	20.409	20.348	20.318	20.348	20.318	20.530	20.530
L21	12:54:23	17.611	17.581	19.324	19.354	20.407	20.347	20.529	20.498	20.347	20.407	20.347	20.316	20.347	20.316	20.559	20.529
L22	12:56:18	17.611	17.582	19.325	19.355	20.408	20.347	20.529	20.499	20.347	20.408	20.347	20.317	20.347	20.317	20.560	20.529
L22	12:57:17	17.611	17.582	19.325	19.355	20.408	20.347	20.529	20.468	20.347	20.408	20.347	20.317	20.378	20.317	20.560	20.529
L22	12:59:16	17.610	17.580	19.323	19.353	20.407	20.346	20.528	20.497	20.376	20.407	20.346	20.316	20.346	20.316	20.558	20.528
L23	13:01:18	17.610	17.580	19.323	19.353	20.407	20.346	20.528	20.497	20.376	20.407	20.346	20.316	20.376	20.316	20.558	20.528
L23	13:02:18	17.610	17.610	19.324	19.354	20.438	20.347	20.529	20.498	20.377	20.407	20.347	20.316	20.347	20.316	20.529	20.529
L23	13:04:17	17.640	17.581	19.324	19.354	20.407	20.347	20.529	20.498	20.377	20.407	20.347	20.316	20.347	20.316	20.559	20.529
L24	13:06:36	17.609	17.580	19.323	19.353	20.406	20.345	20.527	20.497	20.345	20.406	20.345	20.315	20.345	20.315	20.558	20.527
L24	13:07:17	17.609	17.580	19.323	19.323	20.406	20.345	20.527	20.497	20.376	20.406	20.345	20.315	20.345	20.315	20.558	20.527
L24A	13:08:56	17.610	17.610	19.324	19.354	20.407	20.346	20.528	20.498	20.346	20.407	20.346	20.346	20.346	20.316	20.559	20.528
L24B	13:11:37	17.640	17.582	19.324	19.354	20.438	20.347	20.529	20.499	20.377	20.408	20.347	20.317	20.347	20.317	20.529	20.529
U1	13:16:10	17.611	17.582	19.325	19.355	20.408	20.348	20.529	20.499	20.378	20.408	20.348	20.317	20.378	20.317	20.529	20.529
U2	13:20:31	17.612	17.583	19.326	19.356	20.409	20.348	20.530	20.500	20.348	20.409	20.348	20.318	20.348	20.318	20.530	20.530
U3	13:24:28	17.612	17.583	19.326	19.356	20.409	20.349	20.531	20.500	20.379	20.409	20.349	20.318	20.349	20.318	20.561	20.531
U4	13:28:30	17.613	17.583	19.326	19.326	20.410	20.349	20.531	20.501	20.349	20.410	20.349	20.319	20.349	20.319	20.561	20.531
U5	13:32:38	17.611	17.582	19.325	19.355	20.408	20.347	20.529	20.499	20.347	20.408	20.347	20.317	20.347	20.317	20.529	20.529
U6	13:36:34	17.611	17.582	19.325	19.355	20.408	20.348	20.530	20.499	20.348	20.408	20.348	20.317	20.348	20.317	20.530	20.530
U7	13:40:50	17.612	17.583	19.326	19.326	20.409	20.348	20.531	20.500	20.379	20.409	20.348	20.318	20.348	20.318	20.531	20.531
U8	13:44:36	17.612	17.583	19.326	19.326	20.440	20.349	20.531	20.500	20.379	20.409	20.349	20.349	20.349	20.319	20.531	20.531
U8A	13:47:36	17.613	17.583	19.326	19.326	20.410	20.349	20.531	20.501	20.349	20.410	20.349	20.319	20.349	20.319	20.531	20.531

Table F.15 continued

VIBRATING WIRE CALCULATED STRAIN INCREMENTS

AUC 2 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 13	VW STRN MICRO STRAIN 14	VW STRN MICRO STRAIN 15	VW STRN MICRO STRAIN 16	VW STRN MICRO STRAIN 3	VW STRN MICRO STRAIN 4	VW STRN MICRO STRAIN 17	VW STRN MICRO STRAIN 18	VW STRN MICRO STRAIN 7	VW STRN MICRO STRAIN 8	VW STRN MICRO STRAIN 35	VW STRN MICRO STRAIN 36	VW STRN MICRO STRAIN 21	VW STRN MICRO STRAIN 22	VW STRN MICRO STRAIN 41	VW STRN MICRO STRAIN 42
L0	10:26:32	0.0	0.1	-0.1	-0.4	-0.3	-0.2	-0.1	-0.1	-1.2	-0.1	0.0	-0.5	-0.7	-0.3	-0.0	-0.0
L0	11:06:37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
L1	11:12:09	0.5	0.5	0.9	1.0	1.2	1.1	1.1	1.4	1.7	2.3	3.3	4.0	3.2	3.9	12.0	7.7
L1	11:13:10	0.2	0.5	0.8	0.6	1.3	1.2	1.3	0.4	1.4	2.5	3.3	4.1	3.2	3.9	12.3	7.9
L1	11:15:09	0.6	0.4	0.8	0.5	0.9	1.5	1.4	0.8	1.6	2.7	3.7	3.5	3.3	3.4	12.6	8.0
L2	11:17:22	0.5	0.9	1.7	1.8	2.6	2.9	3.1	2.2	3.8	5.8	8.6	9.8	9.7	10.1	26.2	19.2
L2	11:18:19	0.7	0.9	1.5	1.9	2.2	2.8	3.4	2.5	3.9	5.8	8.9	9.4	9.2	10.1	26.0	19.0
L2	11:20:18	0.6	0.8	1.6	1.4	2.5	2.6	3.2	2.3	4.2	6.0	8.8	8.7	9.5	10.2	26.3	19.2
L3	11:22:14	0.9	1.3	2.9	3.2	4.5	5.0	6.2	5.1	8.2	10.9	15.8	15.8	17.6	18.4	42.1	30.8
L3	11:23:14	1.3	1.1	3.2	3.4	4.3	5.2	6.6	4.8	8.8	10.4	16.1	16.2	17.6	19.1	42.2	31.4
L3	11:25:14	1.2	1.3	3.0	3.3	4.7	4.9	6.5	5.2	8.9	10.9	15.9	16.4	17.7	18.5	42.7	31.1
L4	11:27:11	1.6	1.7	4.5	4.8	7.0	7.9	10.0	7.4	14.4	16.8	24.2	24.1	26.9	28.3	58.8	45.4
L4	11:28:10	1.8	2.0	4.6	4.4	6.7	7.9	10.2	7.4	15.4	16.8	24.2	23.8	27.0	28.1	59.1	45.5
L4	11:30:10	1.7	2.1	4.8	4.9	6.9	7.9	10.3	8.1	15.0	17.0	24.6	24.6	27.1	28.3	59.5	45.4
L5	11:32:18	1.6	2.9	6.5	7.3	9.7	10.4	14.0	10.2	21.1	23.7	33.5	33.9	36.3	37.6	75.0	58.7
L5	11:33:15	1.8	2.8	6.4	7.0	9.9	10.5	14.2	10.6	21.4	24.1	33.5	34.2	36.5	38.1	74.8	59.0
L5	11:35:15	1.6	2.9	6.5	7.1	10.0	10.7	14.3	10.5	22.6	24.5	34.1	34.3	36.2	38.4	75.6	59.2
L6	11:37:12	2.1	3.0	7.5	8.1	12.1	12.8	16.6	12.7	26.0	27.9	38.7	37.6	41.8	43.3	83.8	66.6
L6	11:38:12	2.5	3.3	7.3	8.0	12.0	12.7	16.8	12.6	25.3	28.2	38.9	37.8	41.9	43.7	83.6	66.9
L6	11:40:12	2.3	3.3	7.5	8.2	11.8	13.2	16.9	12.6	24.9	28.1	38.5	38.2	41.8	43.9	84.4	67.0
L7	11:42:08	2.2	3.4	8.5	9.7	12.9	14.8	18.7	14.8	28.8	31.6	43.1	42.9	46.9	48.5	90.8	73.7
L7	11:43:06	3.0	3.4	8.6	9.4	12.8	14.8	18.8	15.2	29.7	31.4	43.1	42.5	47.0	48.4	91.0	73.8
L7	11:45:09	2.0	3.4	8.7	9.9	13.1	14.7	19.1	15.4	28.2	32.1	43.3	42.9	46.6	48.5	90.9	73.9
L8	11:47:07	2.5	3.4	9.7	9.9	14.8	16.6	21.3	16.6	32.1	35.7	48.1	47.0	52.0	53.7	100.3	81.3
L8	11:48:07	3.0	3.3	9.6	9.2	14.7	16.8	21.5	16.7	32.8	36.0	48.2	47.5	52.3	54.2	100.6	81.4
L8	11:50:08	3.1	3.5	9.9	9.4	14.8	16.9	21.7	17.0	32.2	36.8	48.2	47.9	51.9	54.4	99.7	81.2
L9	11:52:10	2.9	3.3	10.6	10.6	16.8	18.2	23.7	18.6	37.6	39.7	52.7	51.8	57.3	59.1	107.7	88.6
L9	11:53:09	3.5	3.6	10.7	10.3	17.0	18.5	23.8	18.6	37.9	39.6	53.1	52.0	57.3	58.6	107.4	88.5
L9	11:55:08	3.2	3.6	10.8	10.8	16.9	18.4	23.9	18.9	38.0	39.8	53.0	51.9	57.5	59.1	107.8	88.6
L10	11:57:06	3.5	3.7	11.6	12.1	17.6	20.4	26.4	20.4	41.8	44.0	57.9	56.4	62.5	63.4	115.9	96.0
L10	11:58:06	3.6	3.7	11.5	12.2	18.1	20.4	26.2	20.2	40.9	44.5	58.0	57.1	62.4	64.5	116.0	95.9
L10	12:00:04	3.4	3.4	11.5	12.4	18.2	20.7	26.4	20.2	42.2	44.6	58.1	56.8	62.0	63.6	116.5	96.1
L11	12:02:09	3.9	3.6	12.5	13.3	19.4	22.3	28.5	22.6	45.1	48.3	63.3	61.7	67.8	69.5	123.5	103.1
L11	12:03:08	3.5	3.9	12.6	13.1	19.8	22.5	28.7	23.0	45.3	48.4	63.1	61.8	67.9	69.5	123.7	103.1
L11	12:05:08	3.7	3.8	12.7	13.6	20.2	22.5	28.8	22.7	45.8	48.9	63.6	61.2	67.9	69.2	123.2	103.3
L12	12:07:09	3.7	3.8	13.5	14.9	21.6	24.1	31.2	23.6	49.2	52.0	68.0	65.8	73.0	73.5	131.0	110.3
L12	12:08:11	3.9	3.7	13.7	14.4	21.7	24.1	31.3	23.9	49.0	52.2	68.3	66.2	72.7	74.1	132.4	110.3
L12	12:10:08	3.9	3.9	13.6	14.2	21.7	24.4	31.4	24.8	49.2	52.5	68.4	66.3	73.2	74.1	133.2	110.7
L13	12:12:02	3.8	4.1	14.6	14.5	22.7	26.1	33.5	26.2	53.1	57.0	73.6	69.8	78.2	78.8	139.7	117.4
L13	12:13:04	3.7	4.1	14.5	14.6	23.0	26.0	33.4	26.2	53.4	56.7	73.3	70.9	78.4	78.5	139.9	117.6
L13	12:15:03	4.0	4.0	14.7	14.5	22.8	26.3	33.8	25.5	54.2	57.3	73.4	70.6	78.6	78.4	139.8	117.3
L14	12:16:58	3.9	4.3	15.4	15.9	24.4	27.8	35.8	28.5	56.6	60.8	78.3	74.8	83.7	83.5	147.1	124.0
L14	12:17:56	3.8	4.2	15.2	16.1	24.5	27.9	35.9	29.6	56.0	61.1	78.2	75.2	83.8	83.9	147.3	124.1

Table F.15 continued

VIBRATING WIRE CALCULATED STRAIN INCREMENTS

AUC 2 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 13	VW STRN MICRO STRAIN 14	VW STRN MICRO STRAIN 15	VW STRN MICRO STRAIN 16	VW STRN MICRO STRAIN 3	VW STRN MICRO STRAIN 4	VW STRN MICRO STRAIN 17	VW STRN MICRO STRAIN 18	VW STRN MICRO STRAIN 7	VW STRN MICRO STRAIN 8	VW STRN MICRO STRAIN 35	VW STRN MICRO STRAIN 36	VW STRN MICRO STRAIN 21	VW STRN MICRO STRAIN 22	VW STRN MICRO STRAIN 41	VW STRN MICRO STRAIN 42
L14	12:19:56	4.1	4.3	15.4	16.0	24.6	28.2	36.2	28.8	55.9	61.8	78.5	75.5	83.8	83.7	147.7	124.4
L15	12:21:48	4.1	4.4	16.1	15.6	26.1	30.0	38.2	29.1	61.8	65.2	83.4	79.4	89.3	88.0	154.4	130.5
L15	12:22:48	4.1	4.5	16.1	16.2	26.1	29.8	38.2	29.5	61.8	65.5	83.5	79.9	89.2	87.8	153.9	130.5
L15	12:24:48	3.8	4.4	15.8	15.5	25.7	30.1	38.3	29.2	61.8	65.7	83.6	79.7	89.5	87.9	154.4	131.0
L16	12:26:53	4.2	4.6	16.7	16.4	27.0	31.3	40.2	30.9	65.1	68.9	88.3	83.4	94.4	92.5	160.9	137.4
L16	12:27:57	4.1	4.5	16.7	16.0	27.1	31.4	40.3	31.0	65.3	69.5	89.0	84.0	94.3	92.6	160.6	137.3
L16	12:29:50	4.3	4.4	16.7	16.4	27.8	31.3	40.4	31.2	65.4	69.2	88.7	83.5	94.6	92.5	160.6	137.4
L17	12:31:44	4.4	4.4	17.3	17.2	27.7	32.6	42.3	33.8	70.1	73.6	93.1	87.4	99.5	96.9	168.2	143.7
L17	12:32:46	4.1	4.5	17.1	17.0	28.0	32.5	42.4	33.5	68.9	73.8	93.1	88.0	99.5	97.3	168.0	143.5
L17	12:34:44	4.3	4.4	17.0	16.9	27.8	32.7	42.5	31.8	68.7	73.9	93.3	87.8	99.6	97.3	168.4	143.7
L18	12:36:48	4.1	4.6	17.7	18.1	28.7	34.3	44.2	33.6	72.4	77.1	97.9	91.5	104.6	100.1	175.5	149.1
L18	12:37:47	4.1	4.6	17.6	17.4	28.7	34.4	44.1	33.4	72.4	77.1	97.9	91.1	105.1	100.5	175.3	148.8
L18	12:39:47	3.9	4.7	17.5	17.2	28.3	34.2	43.9	33.1	72.4	77.2	98.0	91.6	104.8	100.4	175.6	148.7
L19	12:41:45	4.2	4.4	18.1	18.7	29.9	35.7	45.8	34.4	76.1	81.0	101.9	94.9	109.6	102.9	182.3	154.0
L19	12:42:43	4.1	4.6	17.9	18.1	29.6	35.9	45.4	34.0	76.0	80.7	102.0	94.7	109.1	102.8	182.3	153.7
L19	12:44:43	4.4	4.4	17.9	17.7	29.0	35.5	45.3	34.0	75.8	80.9	101.9	94.9	109.0	103.8	182.6	153.1
L20	12:46:34	4.4	4.4	18.5	18.7	30.1	36.5	47.4	35.6	78.3	83.7	105.6	98.0	113.3	106.7	189.2	157.4
L20	12:47:34	4.2	4.3	18.2	19.1	30.4	36.2	46.9	35.7	78.1	83.8	105.9	98.1	113.5	106.1	189.0	157.0
L20	12:49:32	4.3	4.3	18.1	18.0	29.7	35.7	46.8	35.1	78.2	84.1	105.3	97.7	113.3	106.3	189.4	156.3
L21	12:51:24	4.2	4.5	18.7	19.4	30.6	37.3	47.7	35.9	81.7	86.4	110.2	100.7	117.5	109.6	196.0	159.0
L21	12:52:23	4.3	4.6	18.5	18.5	30.7	37.1	47.6	36.0	82.9	86.5	109.9	100.3	117.9	108.7	196.2	158.3
L21	12:54:23	4.5	4.4	18.4	18.1	29.9	36.8	47.8	35.4	82.1	86.6	109.7	100.4	117.7	107.3	196.6	157.4
L22	12:56:18	4.4	4.8	19.4	19.8	31.6	37.9	49.5	36.3	85.3	90.9	115.4	105.1	124.3	112.9	203.5	163.3
L22	12:57:17	4.4	4.5	19.4	19.7	31.3	37.8	49.2	36.4	84.9	91.6	115.2	105.1	123.9	113.4	203.8	164.2
L22	12:59:16	4.5	4.6	19.3	19.8	31.3	37.7	49.1	36.1	85.4	91.7	115.8	105.2	125.8	113.2	205.9	165.0
L23	13:01:18	4.7	4.9	19.9	19.6	32.5	38.4	49.5	37.6	88.1	93.5	119.4	107.0	128.3	117.0	207.5	169.6
L23	13:02:18	4.9	4.7	20.1	19.4	32.2	38.3	49.2	37.1	88.2	93.3	119.6	106.7	129.1	116.5	207.3	169.3
L23	13:04:17	5.3	5.0	20.3	20.2	32.2	38.3	48.5	37.4	88.2	93.0	119.9	105.5	128.8	115.2	207.3	170.9
L24	13:06:36	7.3	4.6	20.4	24.3	34.5	38.5	48.3	37.6	85.9	90.2	119.3	101.9	128.8	112.1	203.5	174.3
L24	13:07:17	8.3	4.3	20.0	27.2	35.9	38.8	48.4	37.9	85.3	90.0	119.2	100.3	127.0	110.0	202.4	169.5
L24A	13:08:56	10.4	3.5	20.3	29.9	37.5	39.1	49.7	38.5	83.8	89.5	119.1	99.6	126.3	107.4	197.2	172.4
L24B	13:11:37	11.5	3.9	20.1	30.2	36.1	38.8	48.6	36.6	81.5	88.4	115.6	96.5	124.1	105.9	195.2	166.9
U1	13:16:10	8.7	2.2	13.7	25.4	27.2	29.6	37.6	27.3	65.3	71.6	89.7	73.3	92.2	80.4	148.0	121.2
U2	13:20:31	7.9	0.9	11.4	21.2	24.2	25.9	33.2	24.1	59.0	64.1	79.9	64.9	80.5	71.3	133.3	105.6
U3	13:24:28	6.5	-0.6	7.6	16.9	18.4	20.4	26.4	18.7	49.0	53.4	64.7	52.0	63.5	57.6	108.7	83.7
U4	13:28:30	5.6	-2.0	4.9	15.0	15.3	16.6	22.0	15.2	42.2	46.2	55.5	43.9	53.2	49.1	95.2	70.6
U5	13:32:38	4.1	-3.1	1.2	9.7	9.6	10.6	14.8	9.3	31.8	34.7	41.5	31.5	38.5	35.7	72.1	51.2
U6	13:36:34	2.4	-5.0	-3.2	6.1	4.2	4.4	7.4	3.0	20.5	23.4	27.5	19.0	24.0	23.0	51.3	32.1
U7	13:40:50	0.8	-6.5	-7.8	1.2	-2.1	-3.7	-0.7	-3.4	8.1	10.7	12.2	4.5	8.5	8.5	25.8	13.1
U8	13:44:36	-0.2	-7.9	-12.7	-3.8	-8.8	-10.5	-9.7	-10.5	-6.2	-4.5	-3.8	-10.3	-7.0	-7.9	1.5	-4.8
U8A	13:47:36	-0.5	-8.0	-12.6	-3.8	-8.5	-10.8	-9.5	-10.9	-6.8	-4.7	-4.1	-10.9	-7.1	-8.2	1.6	-5.2

Table F.15 continued

VIBRATING WIRE CALCULATED STRAIN (4 MINUTE READINGS)

AUC 2 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 13	VW STRN MICRO STRAIN 14	VW STRN MICRO STRAIN 15	VW STRN MICRO STRAIN 16	VW STRN MICRO STRAIN 3	VW STRN MICRO STRAIN 4	VW STRN MICRO STRAIN 17	VW STRN MICRO STRAIN 18	VW STRN MICRO STRAIN 7	VW STRN MICRO STRAIN 8	VW STRN MICRO STRAIN 35	VW STRN MICRO STRAIN 36	VW STRN MICRO STRAIN 21	VW STRN MICRO STRAIN 22	VW STRN MICRO STRAIN 41	VW STRN MICRO STRAIN 42
L0	11:06:37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
L1	11:15:09	0.6	0.4	0.8	0.5	0.9	1.5	1.4	0.8	1.6	2.7	3.7	3.5	3.3	3.4	12.6	8.0
L2	11:20:18	0.6	0.8	1.6	1.4	2.5	2.6	3.2	2.3	4.2	6.0	8.8	8.7	9.5	10.2	26.3	19.2
L3	11:25:14	1.2	1.3	3.0	3.3	4.7	4.9	6.5	5.2	8.9	10.9	15.9	16.4	17.7	18.5	42.7	31.1
L4	11:30:10	1.7	2.1	4.8	4.9	6.9	7.9	10.3	8.1	15.0	17.0	24.6	24.6	27.1	28.3	59.5	45.4
L5	11:35:15	1.6	2.9	6.5	7.1	10.0	10.7	14.3	10.5	22.6	24.5	34.1	34.3	36.2	38.4	75.6	59.2
L6	11:40:12	2.3	3.3	7.5	8.2	11.8	13.2	16.9	12.6	24.9	28.1	38.5	38.2	41.8	43.9	84.4	67.0
L7	11:45:09	2.0	3.4	8.7	9.9	13.1	14.7	19.1	15.4	28.2	32.1	43.3	42.9	46.6	48.5	90.9	73.9
L8	11:50:08	3.1	3.5	9.9	9.4	14.8	16.9	21.7	17.0	32.2	36.8	48.2	47.9	51.9	54.4	99.7	81.2
L9	11:55:08	3.2	3.6	10.8	10.8	16.9	18.4	23.9	18.9	38.0	39.8	53.0	51.9	57.5	59.1	107.8	88.6
L10	12:00:04	3.4	3.4	11.5	12.4	18.2	20.7	26.4	20.2	42.2	44.6	58.1	56.8	62.0	63.6	116.5	96.1
L11	12:05:08	3.7	3.8	12.7	13.6	20.2	22.5	28.8	22.7	45.8	48.9	63.6	61.2	67.9	69.2	123.2	103.3
L12	12:10:08	3.9	3.9	13.6	14.2	21.7	24.4	31.4	24.8	49.2	52.5	68.4	66.3	73.2	74.1	133.2	110.7
L13	12:15:03	4.0	4.0	14.7	14.5	22.8	26.3	33.8	25.5	54.2	57.3	73.4	70.6	78.6	78.4	139.8	117.3
L14	12:19:56	4.1	4.3	15.4	16.0	24.6	28.2	36.2	28.8	55.9	61.8	78.5	75.5	83.8	83.7	147.7	124.4
L15	12:24:48	3.8	4.4	15.8	15.5	25.7	30.1	38.3	29.2	61.8	65.7	83.6	79.7	89.5	87.9	154.4	131.0
L16	12:29:50	4.3	4.4	16.7	16.4	27.8	31.3	40.4	31.2	65.4	69.2	88.7	83.5	94.6	92.5	160.6	137.4
L17	12:34:44	4.3	4.4	17.0	16.9	27.8	32.7	42.5	31.8	68.7	73.9	93.3	87.8	99.6	97.3	168.4	143.7
L18	12:39:47	3.9	4.7	17.5	17.2	28.3	34.2	43.9	33.1	72.4	77.2	98.0	91.6	104.8	100.4	175.6	148.7
L19	12:44:43	4.4	4.4	17.9	17.7	29.0	35.5	45.3	34.0	75.8	80.9	101.9	94.9	109.0	103.8	182.6	153.1
L20	12:49:32	4.3	4.3	18.1	18.0	29.7	35.7	46.8	35.1	78.2	84.1	105.3	97.7	113.3	106.3	189.4	156.3
L21	12:54:23	4.5	4.4	18.4	18.1	29.9	36.8	47.8	35.4	82.1	86.6	109.7	100.4	117.7	107.3	196.6	157.4
L22	12:59:16	4.5	4.6	19.3	19.8	31.3	37.7	49.1	36.1	85.4	91.7	115.8	105.2	125.8	113.2	205.9	165.0
L23	13:04:17	5.3	5.0	20.3	20.2	32.2	38.3	48.5	37.4	88.2	93.0	119.9	105.5	128.8	115.2	207.3	170.9
L24	13:07:17	8.3	4.3	20.0	27.2	35.9	38.8	48.4	37.9	85.3	90.0	119.2	100.3	127.0	110.0	202.4	169.5
L24A	13:08:56	10.4	3.5	20.3	29.9	37.5	39.1	49.7	38.5	83.8	89.5	119.1	99.6	126.3	107.4	197.2	172.4
L24B	13:11:37	11.5	3.9	20.1	30.2	36.1	38.8	48.6	36.6	81.5	88.4	115.6	96.5	124.1	105.9	195.2	166.9
U1	13:16:10	8.7	2.2	13.7	25.4	27.2	29.6	37.6	27.3	65.3	71.6	89.7	73.3	92.2	80.4	148.0	121.2
U2	13:20:31	7.9	0.9	11.4	21.2	24.2	25.9	33.2	24.1	59.0	64.1	79.9	64.9	80.5	71.3	133.3	105.6
U3	13:24:28	6.5	-0.6	7.6	16.9	18.4	20.4	26.4	18.7	49.0	53.4	64.7	52.0	63.5	57.6	108.7	83.7
U4	13:28:30	5.6	-2.0	4.9	15.0	15.3	16.6	22.0	15.2	42.2	46.2	55.5	43.9	53.2	49.1	95.2	70.6
U5	13:32:38	4.1	-3.1	1.2	9.7	9.6	10.6	14.8	9.3	31.8	34.7	41.5	31.5	38.5	35.7	72.1	51.2
U6	13:36:34	2.4	-5.0	-3.2	6.1	4.2	4.4	7.4	3.0	20.5	23.4	27.5	19.0	24.0	23.0	51.3	32.1
U7	13:40:50	0.8	-6.5	-7.8	1.2	-2.1	-3.7	-0.7	-3.4	8.1	10.7	12.2	4.5	8.5	8.5	25.8	13.1
U8	13:44:36	-0.2	-7.9	-12.7	-3.8	-8.8	-10.5	-9.7	-10.5	-6.2	-4.5	-3.8	-10.3	-7.0	-7.9	1.5	-4.8
U8A	13:47:36	-0.5	-8.0	-12.6	-3.8	-8.5	-10.8	-9.5	-10.9	-6.8	-4.7	-4.1	-10.9	-7.1	-8.2	1.6	-5.2

Table F.15 continued

AVERAGE STRAIN AT EACH GAGE LEVEL, INTEGRATED PILE COMPRESSION & COMPARISON WITH TELLTALE MEASUREMENT (4 MINUTE READINGS)

AUC 2 LOAD NUMBER	AVG VW MICRO STRAIN SURFACE	AVG VW MICRO STRAIN 13+14	AVG VW MICRO STRAIN 15+16	AVG VW MICRO STRAIN 3+4	AVG VW MICRO STRAIN 17+18	AVG VW MICRO STRAIN 7+8	AVG VW MICRO STRAIN 35+36	AVG VW MICRO STRAIN 21+22	AVG VW MICRO STRAIN 41+42	EST'D. MICRO STRAIN CELL TOP	PILE COMPRESSION SG MSMT. INCHES	TT MSMT. INCHES	ABS.DIFF. SG-TT INCHES
L0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0000	0.0000	0.0000
L1	0.0	0.5	0.6	1.2	1.1	2.1	3.6	3.4	10.3	12.3	0.0016	0.0012	0.0004
L2	0.0	0.7	1.5	2.5	2.7	5.1	8.7	9.9	22.7	25.8	0.0038	0.0032	0.0006
L3	0.0	1.2	3.2	4.8	5.8	9.9	16.1	18.1	36.9	40.3	0.0069	0.0058	0.0011
L4	0.0	1.9	4.8	7.4	9.2	16.0	24.6	27.7	52.4	55.6	0.0104	0.0089	0.0016
L5	0.0	2.2	6.8	10.3	12.4	23.6	34.2	37.3	67.4	70.5	0.0142	0.0121	0.0020
L6	0.0	2.8	7.9	12.5	14.7	26.5	38.4	42.9	75.7	78.6	0.0162	0.0140	0.0022
L7	0.0	2.7	9.3	13.9	17.2	30.2	43.1	47.5	82.4	85.6	0.0181	0.0158	0.0023
L8	0.0	3.3	9.7	15.8	19.4	34.5	48.1	53.2	90.5	93.3	0.0202	0.0177	0.0025
L9	0.0	3.4	10.8	17.7	21.4	38.9	52.5	58.3	98.2	101.1	0.0223	0.0196	0.0027
L10	0.0	3.4	11.9	19.4	23.3	43.4	57.5	62.8	106.3	108.8	0.0243	0.0214	0.0029
L11	0.0	3.8	13.1	21.3	25.8	47.3	62.4	68.6	113.3	115.9	0.0264	0.0231	0.0033
L12	0.0	3.9	13.9	23.0	28.1	50.8	67.3	73.7	122.0	124.1	0.0284	0.0249	0.0036
L13	0.0	4.0	14.6	24.6	29.7	55.7	72.0	78.5	128.5	131.0	0.0303	0.0267	0.0036
L14	0.0	4.2	15.7	26.4	32.5	58.9	77.0	83.8	136.0	138.4	0.0324	0.0286	0.0038
L15	0.0	4.1	15.6	27.9	33.7	63.8	81.6	88.7	142.7	145.2	0.0342	0.0303	0.0039
L16	0.0	4.3	16.6	29.5	35.8	67.3	86.1	93.5	149.0	152.0	0.0360	0.0319	0.0041
L17	0.0	4.3	16.9	30.3	37.1	71.3	90.6	98.5	156.0	159.1	0.0377	0.0335	0.0042
L18	0.0	4.3	17.4	31.2	38.5	74.8	94.8	102.6	162.2	165.6	0.0393	0.0348	0.0045
L19	0.0	4.4	17.8	32.3	39.6	78.4	98.4	106.4	167.9	172.0	0.0407	0.0364	0.0044
L20	0.0	4.3	18.0	32.7	41.0	81.1	101.5	109.8	172.8	177.8	0.0419	0.0375	0.0044
L21	0.0	4.4	18.3	33.4	41.6	84.4	105.0	112.5	177.0	182.9	0.0431	0.0384	0.0047
L22	0.0	4.6	19.6	34.5	42.6	88.5	110.5	119.5	185.5	191.0	0.0452	0.0402	0.0051
L23	0.0	5.1	20.2	35.3	43.0	90.6	112.7	122.0	189.1	194.6	0.0462	0.0411	0.0052
L24	0.0	6.3	23.6	37.3	43.2	87.6	109.7	118.5	186.0	193.9	0.0459	0.0416	0.0043
L24A	0.0	6.9	25.1	38.3	44.1	86.7	109.4	116.8	184.8	192.3	0.0459	0.0410	0.0050
L24B	0.0	7.7	25.1	37.4	42.6	84.9	106.1	115.0	181.0	186.9	0.0450	0.0403	0.0047
U1	0.0	5.4	19.5	28.4	32.5	68.5	81.5	86.3	134.6	134.6	0.0345	0.0318	0.0027
U2	0.0	4.4	16.3	25.1	28.7	61.5	72.4	75.9	119.4	118.7	0.0305	0.0285	0.0020
U3	0.0	2.9	12.3	19.4	22.5	51.2	58.4	60.6	96.2	95.2	0.0244	0.0234	0.0011
U4	0.0	1.8	10.0	16.0	18.6	44.2	49.7	51.1	82.9	81.7	0.0207	0.0203	0.0004
U5	0.0	0.5	5.5	10.1	12.1	33.3	36.5	37.1	61.7	61.0	0.0148	0.0153	-0.0005
U6	0.0	-1.3	1.4	4.3	5.2	21.9	23.2	23.5	41.7	41.6	0.0088	0.0104	-0.0016
U7	0.0	-2.9	-3.3	-2.9	-2.0	9.4	8.3	8.5	19.4	19.7	0.0022	0.0047	-0.0025
U8	0.0	-4.0	-8.2	-9.6	-10.1	-5.4	-7.1	-7.5	-1.6	-1.0	-0.0047	-0.0009	-0.0038
U8A	0.0	-4.2	-8.2	-9.6	-10.2	-5.7	-7.5	-7.7	-1.8	-1.1	-0.0048	-0.0009	-0.0039
ELEV. FT	53.21	43.25	35.25	28.25	21.75	11.75	2.75	-0.25	-8.25	-8.75			

Table F.15 continued

VIBRATING WIRE CALCULATED AVERAGE LOADS (4 MINUTE READINGS)

LA = 8.00 ft ACA = 317.115 si
LB = 1.38 ft ACB = 313.155 si
B = 18.00 in ASA = 3.538 si
ES = 27500.0 ksi ASB = 7.498 si

AUC 2 LOAD NUMBER	AVG VW LOAD TONS SURFACE	AVG VW LOAD TONS 13+14	AVG VW LOAD TONS 15+16	AVG VW LOAD TONS 3+4	AVG VW LOAD TONS 17+18	AVG VW LOAD TONS 7+8	AVG VW LOAD TONS 35+36	AVG VW LOAD TONS 21+22	AVG VW LOAD TONS 41+42	OSTERBERG LOAD TONS BOTTOM	INCR. PILE MODULUS KSI	CALC. PILE A MODULUS KSI	CALC. PILE B MODULUS KSI
L0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0		3998.8	4288.7
L1	0.0	0.34	0.42	0.76	0.69	1.39	2.32	2.18	7.14	11.0	6579.6	3998.8	4288.7
L2	0.0	0.44	0.95	1.65	1.77	3.29	5.65	6.40	15.79	21.6	5266.8	3998.8	4288.7
L3	0.0	0.79	2.04	3.10	3.77	6.41	10.43	11.75	25.63	32.1	4575.4	3998.8	4288.7
L4	0.0	1.24	3.14	4.79	5.96	10.38	15.95	17.96	36.43	42.5	4133.0	3998.8	4288.7
L5	0.0	1.46	4.43	6.69	8.02	15.26	22.13	24.14	46.82	52.8	4271.3	3998.8	4288.7
L6	0.0	1.83	5.10	8.08	9.55	17.14	24.85	27.78	52.57	58.2	3980.5	3998.8	4288.7
L7	0.0	1.74	6.01	8.99	11.16	19.54	27.90	30.78	57.24	63.3	4720.4	3998.8	4288.7
L8	0.0	2.14	6.26	10.26	12.55	22.33	31.15	34.44	62.85	68.3	3851.0	3998.8	4288.7
L9	0.0	2.22	6.98	11.44	13.85	25.19	33.99	37.76	68.26	73.7	4208.4	3998.8	4288.7
L10	0.0	2.22	7.72	12.59	15.09	28.09	37.22	40.67	73.88	78.7	3829.4	3998.8	4288.7
L11	0.0	2.43	8.51	13.82	16.69	30.67	40.43	44.42	78.70	83.7	4460.5	3998.8	4288.7
L12	0.0	2.53	9.01	14.93	18.19	32.94	43.61	47.74	84.73	88.8	3627.9	3998.8	4288.7
L13	0.0	2.60	9.46	15.91	19.23	36.10	46.67	50.87	89.31	94.0	4852.1	3998.8	4288.7
L14	0.0	2.70	10.15	17.11	21.06	38.13	49.89	54.26	94.52	99.0	4183.8	3998.8	4288.7
L15	0.0	2.65	10.13	18.08	21.84	41.30	52.89	57.45	99.13	104.0	4634.6	3998.8	4288.7
L16	0.0	2.81	10.72	19.13	23.21	43.61	55.78	60.60	103.55	109.2	5009.6	3998.8	4288.7
L17	0.0	2.81	10.98	19.60	24.04	46.18	58.68	63.79	108.41	114.3	4474.2	3998.8	4288.7
L18	0.0	2.78	11.27	20.23	24.94	48.46	61.41	66.46	112.66	119.3	5096.0	3998.8	4288.7
L19	0.0	2.87	11.55	20.90	25.68	50.77	63.76	68.94	116.62	124.5	5572.0	3998.8	4288.7
L20	0.0	2.78	11.69	21.19	26.53	52.57	65.75	71.13	120.09	129.5	6247.9	3998.8	4288.7
L21	0.0	2.88	11.83	21.62	26.93	54.65	68.04	72.87	122.95	134.4	7297.8	3998.8	4288.7
L22	0.0	2.97	12.68	22.36	27.59	57.36	71.58	77.41	128.86	139.5	3722.4	3998.8	4288.7
L23	0.0	3.31	13.10	22.85	27.82	58.70	73.00	79.03	131.35	142.0	4346.1	3998.8	4288.7
L24	0.0	4.07	15.26	24.18	27.98	56.77	71.10	76.78	129.19	144.4		3998.8	4288.7
L24A	0.0	4.50	16.26	24.82	28.56	56.15	70.86	75.68	128.41	142.7		3998.8	4288.7
L24B	0.0	5.00	16.27	24.25	27.61	55.01	68.73	74.49	125.76	137.0		3998.8	4288.7
U1	0.0	3.52	12.66	18.40	21.04	44.36	52.79	55.91	93.51	93.5		3998.8	4288.7
U2	0.0	2.84	10.58	16.24	18.57	39.85	46.92	49.15	82.96	81.6		3998.8	4288.7
U3	0.0	1.91	7.94	12.57	14.60	33.14	37.80	39.23	66.86	64.9		3998.8	4288.7
U4	0.0	1.15	6.45	10.35	12.05	28.63	32.19	33.13	57.59	55.4		3998.8	4288.7
U5	0.0	0.30	3.54	6.54	7.82	21.54	23.64	24.04	42.84	41.5		3998.8	4288.7
U6	0.0	-0.84	0.92	2.77	3.38	14.21	15.06	15.24	28.98	28.7		3998.8	4288.7
U7	0.0	-1.85	-2.13	-1.88	-1.31	6.09	5.40	5.49	13.51	14.0		3998.8	4288.7
U8	0.0	-2.62	-5.32	-6.24	-6.55	-3.48	-4.58	-4.84	-1.14	0.0		3998.8	4288.7
U8A	0.0	-2.75	-5.32	-6.23	-6.62	-3.70	-4.87	-4.98	-1.24	0.0		3998.8	4288.7
ELEV. FT	53.21	43.25	35.25	28.25	21.75	11.75	2.75	-0.25	-8.25	-9.63	3778.8 KSI = CONCRETE MODULUS		

Table F.15 continued

INTEGRATED MOVEMENT AT VW STRAIN GAGE (4 MINUTE READINGS)

AUC 2 LOAD NUMBER	VW MOVEMENT INCHES SURFACE	VW MOVEMENT INCHES 13+14	VW MOVEMENT INCHES 15+16	VW MOVEMENT INCHES 3+4	VW MOVEMENT INCHES 17+18	VW MOVEMENT INCHES 7+8	VW MOVEMENT INCHES 35+36	VW MOVEMENT INCHES 21+22	VW MOVEMENT INCHES 41+42	VW MOVEMENT INCHES CELL TOP
L0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L1	-0.0016	-0.0015	-0.0015	-0.0014	-0.0013	-0.0011	-0.0008	-0.0007	-0.0000	0.0000
L2	-0.0036	-0.0036	-0.0035	-0.0033	-0.0031	-0.0026	-0.0019	-0.0016	-0.0000	0.0001
L3	-0.0066	-0.0065	-0.0063	-0.0060	-0.0056	-0.0046	-0.0032	-0.0026	0.0000	0.0002
L4	-0.0101	-0.0100	-0.0097	-0.0092	-0.0085	-0.0070	-0.0048	-0.0039	-0.0000	0.0003
L5	-0.0137	-0.0135	-0.0131	-0.0124	-0.0115	-0.0093	-0.0062	-0.0049	0.0001	0.0005
L6	-0.0104	-0.0102	-0.0097	-0.0088	-0.0078	-0.0053	-0.0018	-0.0003	0.0054	0.0058
L7	-0.0119	-0.0118	-0.0112	-0.0102	-0.0090	-0.0062	-0.0022	-0.0006	0.0057	0.0062
L8	-0.0136	-0.0134	-0.0128	-0.0117	-0.0104	-0.0071	-0.0027	-0.0008	0.0061	0.0066
L9	-0.0101	-0.0099	-0.0092	-0.0080	-0.0065	-0.0029	0.0021	0.0041	0.0116	0.0122
L10	-0.0115	-0.0113	-0.0106	-0.0093	-0.0076	-0.0036	0.0018	0.0040	0.0121	0.0128
L11	-0.0049	-0.0046	-0.0038	-0.0024	-0.0005	0.0038	0.0098	0.0121	0.0209	0.0216
L12	-0.0005	-0.0002	0.0006	0.0022	0.0042	0.0089	0.0153	0.0178	0.0272	0.0280
L13	-0.0009	-0.0007	0.0002	0.0018	0.0039	0.0091	0.0160	0.0187	0.0286	0.0294
L14	0.0084	0.0086	0.0096	0.0114	0.0137	0.0191	0.0265	0.0294	0.0399	0.0408
L15	0.0080	0.0082	0.0092	0.0110	0.0134	0.0193	0.0271	0.0302	0.0413	0.0422
L16	0.0174	0.0177	0.0187	0.0206	0.0232	0.0294	0.0377	0.0409	0.0525	0.0535
L17	0.0168	0.0171	0.0181	0.0201	0.0227	0.0292	0.0380	0.0414	0.0536	0.0546
L18	0.0264	0.0267	0.0277	0.0298	0.0325	0.0393	0.0485	0.0520	0.0647	0.0657
L19	0.0360	0.0363	0.0373	0.0394	0.0423	0.0493	0.0589	0.0626	0.0757	0.0768
L20	0.0410	0.0412	0.0423	0.0444	0.0473	0.0546	0.0645	0.0683	0.0818	0.0829
L21	0.0562	0.0565	0.0576	0.0598	0.0627	0.0702	0.0805	0.0844	0.0983	0.0994
L22	0.1727	0.1729	0.1741	0.1764	0.1794	0.1872	0.1980	0.2021	0.2168	0.2179
L23	0.6302	0.6305	0.6317	0.6341	0.6371	0.6451	0.6561	0.6603	0.6752	0.6764
L24	0.6890	0.6894	0.6908	0.6934	0.6965	0.7044	0.7150	0.7191	0.7338	0.7349
L24A	0.6809	0.6813	0.6829	0.6855	0.6887	0.6966	0.7072	0.7112	0.7257	0.7269
L24B	0.6790	0.6795	0.6810	0.6837	0.6868	0.6944	0.7048	0.7087	0.7229	0.7241
U1	0.6855	0.6858	0.6870	0.6890	0.6914	0.6974	0.7055	0.7085	0.7191	0.7200
U2	0.6737	0.6740	0.6750	0.6767	0.6788	0.6842	0.6914	0.6941	0.7035	0.7042
U3	0.6753	0.6754	0.6762	0.6775	0.6791	0.6835	0.6895	0.6916	0.6991	0.6997
U4	0.6715	0.6716	0.6722	0.6733	0.6746	0.6784	0.6835	0.6853	0.6917	0.6922
U5	0.6697	0.6698	0.6701	0.6707	0.6716	0.6743	0.6781	0.6794	0.6841	0.6845
U6	0.6756	0.6755	0.6755	0.6758	0.6762	0.6778	0.6802	0.6811	0.6842	0.6845
U7	-0.0022	-0.0024	-0.0027	-0.0030	-0.0032	-0.0027	-0.0018	-0.0015	-0.0001	0.0000
U8	0.0047	0.0044	0.0038	0.0031	0.0023	0.0014	0.0007	0.0004	0.0000	0.0000
U8A	0.0048	0.0045	0.0039	0.0032	0.0024	0.0015	0.0007	0.0005	0.0000	0.0000

Table F.15 continued

INTEGRATED MOVEMENT AT SEGMENT CL (4 MINUTE READINGS)

AUC 2 LOAD NUMBER CL.ELEV.	AVG VW MOVEMENT INCHES 48.23	AVG VW MOVEMENT INCHES 39.25	AVG VW MOVEMENT INCHES 31.75	AVG VW MOVEMENT INCHES 25.00	AVG VW MOVEMENT INCHES 16.75	AVG VW MOVEMENT INCHES 7.25	AVG VW MOVEMENT INCHES 1.25	AVG VW MOVEMENT INCHES -4.25
L0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0025
L7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0025
L8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0026
L9	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0031	0.0078
L10	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0029	0.0080
L11	0.0000	0.0000	0.0000	0.0000	0.0017	0.0068	0.0110	0.0165
L12	0.0000	0.0002	0.0014	0.0032	0.0065	0.0121	0.0166	0.0225
L13	0.0000	0.0000	0.0010	0.0029	0.0065	0.0125	0.0173	0.0237
L14	0.0085	0.0091	0.0105	0.0125	0.0164	0.0228	0.0279	0.0347
L15	0.0081	0.0087	0.0101	0.0122	0.0163	0.0232	0.0286	0.0357
L16	0.0176	0.0182	0.0197	0.0219	0.0263	0.0335	0.0393	0.0467
L17	0.0170	0.0176	0.0191	0.0214	0.0260	0.0336	0.0397	0.0475
L18	0.0266	0.0272	0.0288	0.0311	0.0359	0.0439	0.0502	0.0584
L19	0.0361	0.0368	0.0384	0.0408	0.0458	0.0541	0.0607	0.0691
L20	0.0411	0.0417	0.0433	0.0459	0.0510	0.0595	0.0664	0.0751
L21	0.0564	0.0570	0.0587	0.0612	0.0665	0.0753	0.0824	0.0913
L22	0.1728	0.1735	0.1752	0.1779	0.1833	0.1926	0.2001	0.2095
L23	0.6304	0.6311	0.6329	0.6356	0.6411	0.6506	0.6582	0.6678
L24	0.6892	0.6901	0.6921	0.6950	0.7005	0.7097	0.7171	0.7265
L24A	0.6811	0.6821	0.6842	0.6871	0.6927	0.7019	0.7092	0.7185
L24B	0.6792	0.6803	0.6824	0.6852	0.6906	0.6996	0.7067	0.7158
U1	0.6856	0.6864	0.6880	0.6902	0.6944	0.7015	0.7070	0.7138
U2	0.6738	0.6745	0.6758	0.6778	0.6815	0.6878	0.6928	0.6988
U3	0.6753	0.6758	0.6768	0.6783	0.6813	0.6865	0.6905	0.6954
U4	0.6716	0.6719	0.6727	0.6739	0.6765	0.6809	0.6844	0.6885
U5	0.6698	0.6699	0.6704	0.6711	0.6729	0.6762	0.6787	0.6818
U6	0.6756	0.6755	0.6757	0.6760	0.6770	0.6790	0.6806	0.6826
U7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
U8	0.0045	0.0041	0.0035	0.0027	0.0018	0.0010	0.0006	0.0002
U8A	0.0047	0.0042	0.0036	0.0028	0.0019	0.0011	0.0006	0.0002

Table F.15 continued

AVERAGE SEGMENT SHEAR STRESS (4 MINUTE READINGS)

AUC 2 LOAD NUMBER CL.ELEV.	AVG VW SHEAR TSF 48.23	AVG VW SHEAR TSF 39.25	AVG VW SHEAR TSF 31.75	AVG VW SHEAR TSF 25.00	AVG VW SHEAR TSF 16.75	AVG VW SHEAR TSF 7.25	AVG VW SHEAR TSF 1.25	AVG VW SHEAR TSF -4.25
L0	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016
L1	-0.011	-0.015	-0.008	-0.018	-0.005	0.001	-0.024	0.087
L2	-0.009	-0.006	0.000	-0.013	0.009	0.027	0.025	0.179
L3	-0.003	0.010	0.009	0.001	0.028	0.058	0.057	0.273
L4	0.004	0.023	0.023	0.013	0.057	0.087	0.095	0.368
L5	0.008	0.046	0.037	0.018	0.104	0.111	0.095	0.456
L6	0.014	0.052	0.054	0.021	0.110	0.126	0.146	0.500
L7	0.013	0.073	0.054	0.039	0.123	0.138	0.143	0.535
L8	0.019	0.069	0.079	0.042	0.147	0.147	0.166	0.576
L9	0.021	0.083	0.090	0.045	0.173	0.146	0.193	0.619
L10	0.021	0.098	0.100	0.048	0.200	0.153	0.175	0.675
L11	0.024	0.110	0.110	0.057	0.217	0.164	0.205	0.698
L12	0.026	0.119	0.124	0.067	0.229	0.181	0.213	0.754
L13	0.027	0.126	0.137	0.069	0.265	0.179	0.217	0.784
L14	0.029	0.139	0.149	0.085	0.268	0.201	0.226	0.822
L15	0.028	0.139	0.173	0.080	0.308	0.198	0.237	0.852
L16	0.031	0.148	0.184	0.088	0.324	0.209	0.252	0.878
L17	0.031	0.154	0.189	0.097	0.352	0.215	0.268	0.913
L18	0.030	0.160	0.197	0.104	0.375	0.223	0.264	0.946
L19	0.032	0.164	0.206	0.106	0.402	0.224	0.271	0.977
L20	0.030	0.169	0.210	0.121	0.418	0.228	0.282	1.003
L21	0.032	0.170	0.217	0.120	0.446	0.232	0.252	1.027
L22	0.033	0.186	0.214	0.118	0.480	0.247	0.307	1.056
L23	0.039	0.188	0.216	0.111	0.498	0.248	0.319	1.074
L24	0.052	0.217	0.196	0.081	0.464	0.249	0.299	1.076
L24A	0.059	0.229	0.187	0.080	0.443	0.256	0.252	1.082
L24B	0.067	0.218	0.174	0.070	0.440	0.238	0.304	1.052
U1	0.043	0.174	0.120	0.051	0.372	0.140	0.157	0.767
U2	0.031	0.145	0.118	0.043	0.338	0.114	0.108	0.688
U3	0.015	0.109	0.094	0.035	0.293	0.070	0.063	0.559
U4	0.003	0.094	0.076	0.027	0.260	0.050	0.036	0.493
U5	-0.011	0.051	0.055	0.017	0.212	0.022	0.005	0.375
U6	-0.031	0.020	0.028	-0.001	0.164	-0.001	-0.006	0.270
U7	-0.047	-0.022	-0.011	-0.002	0.107	-0.029	-0.011	0.151
U8	-0.060	-0.073	-0.038	-0.024	0.035	-0.037	-0.031	0.061
U8A	-0.062	-0.070	-0.038	-0.026	0.032	-0.038	-0.023	0.061

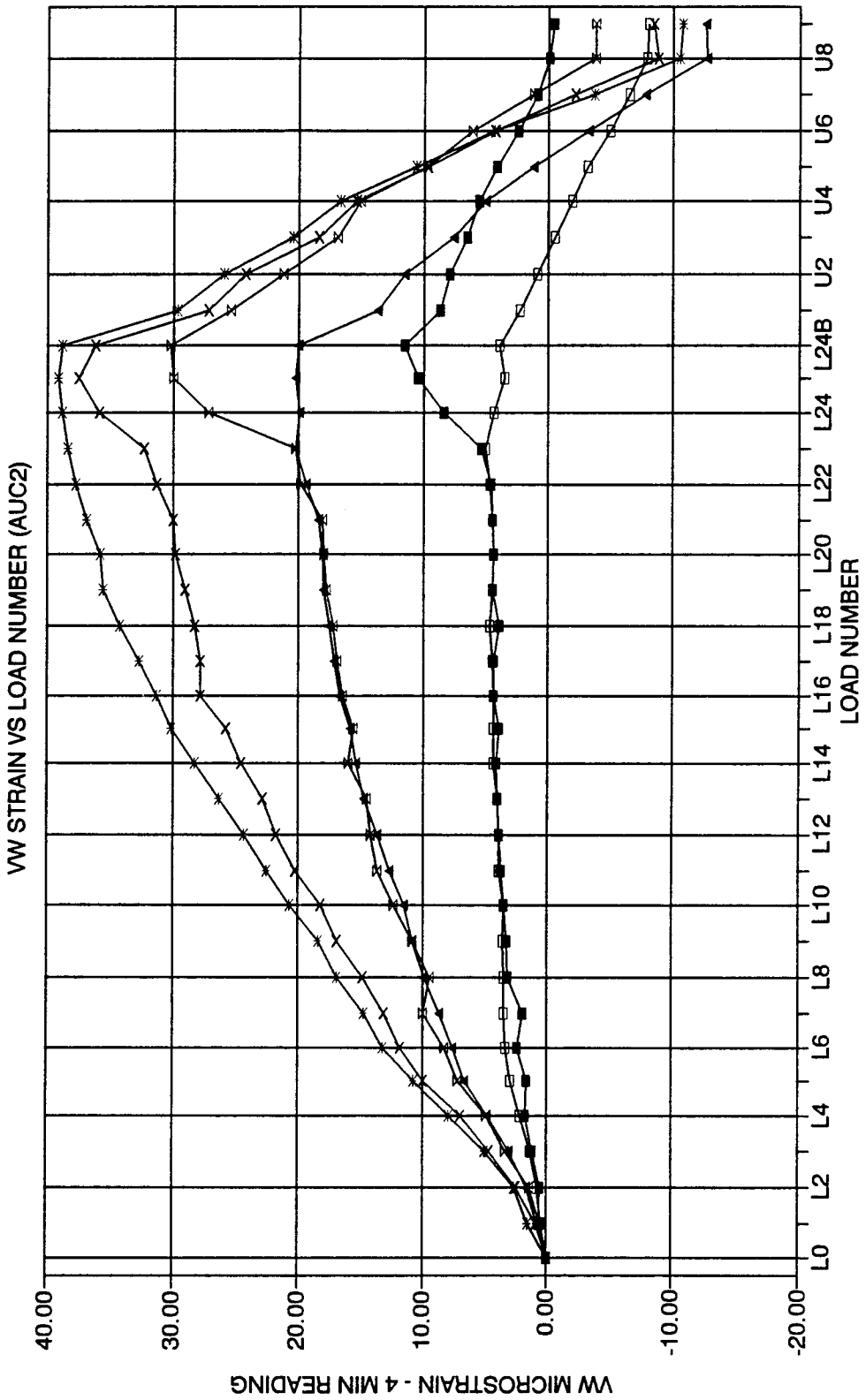

Figure F.71 Strain at Pile Top: Aucilla Load Test 2

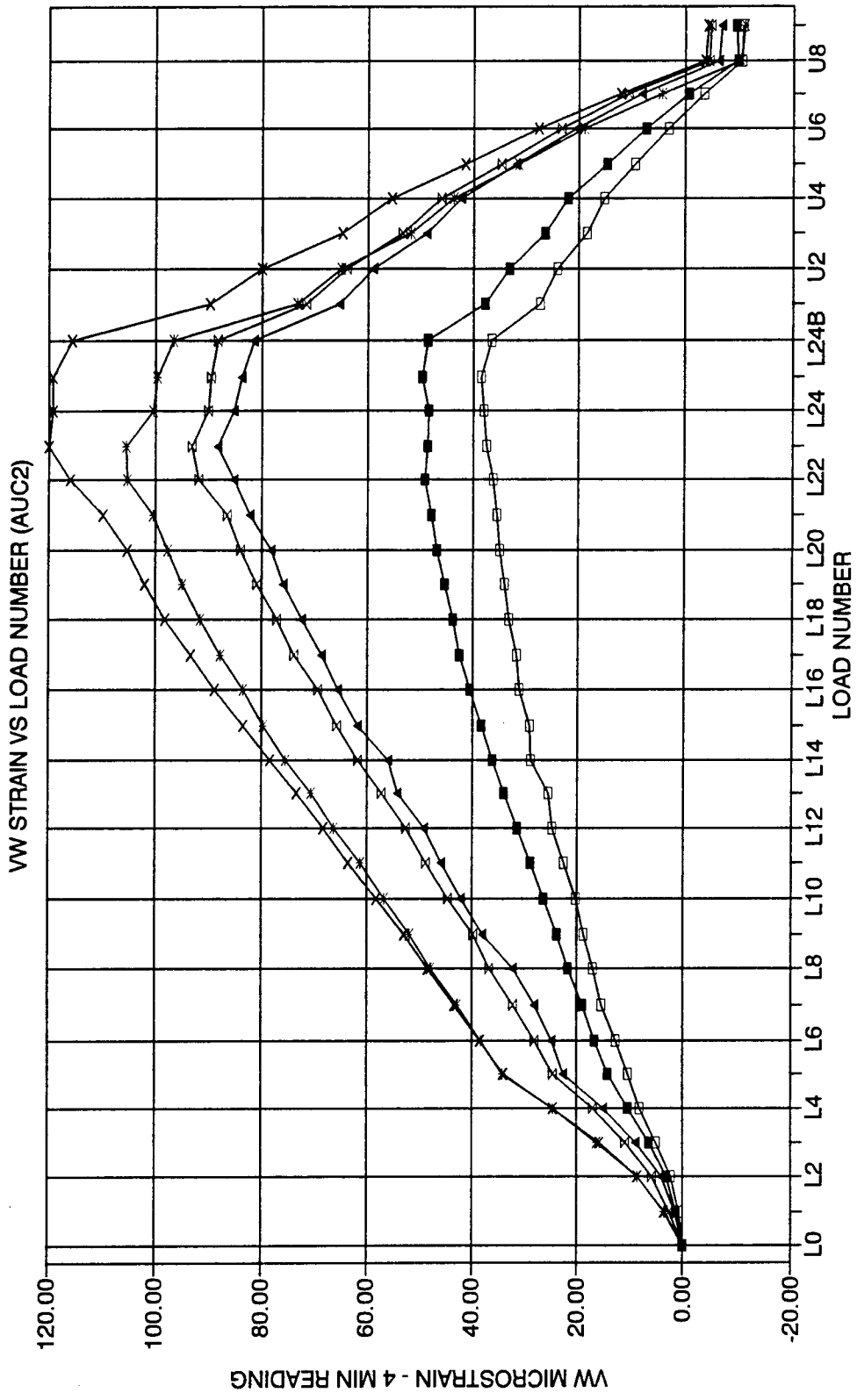

Figure F.72 Strain at Pile Middle: Aucilla Load Test 2

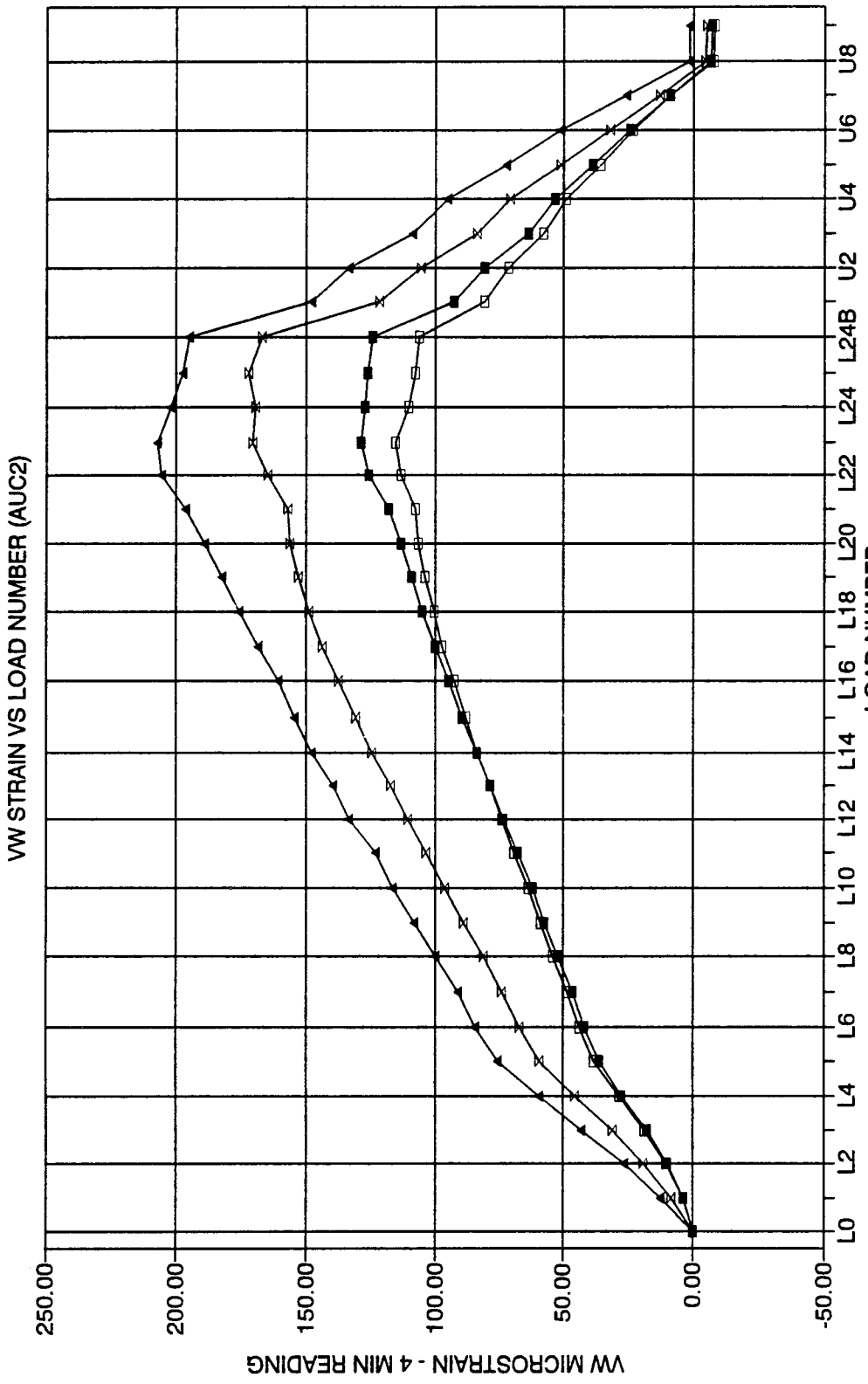

Figure F.73 Strain at Pile Bottom: Aucilla Load Test 2

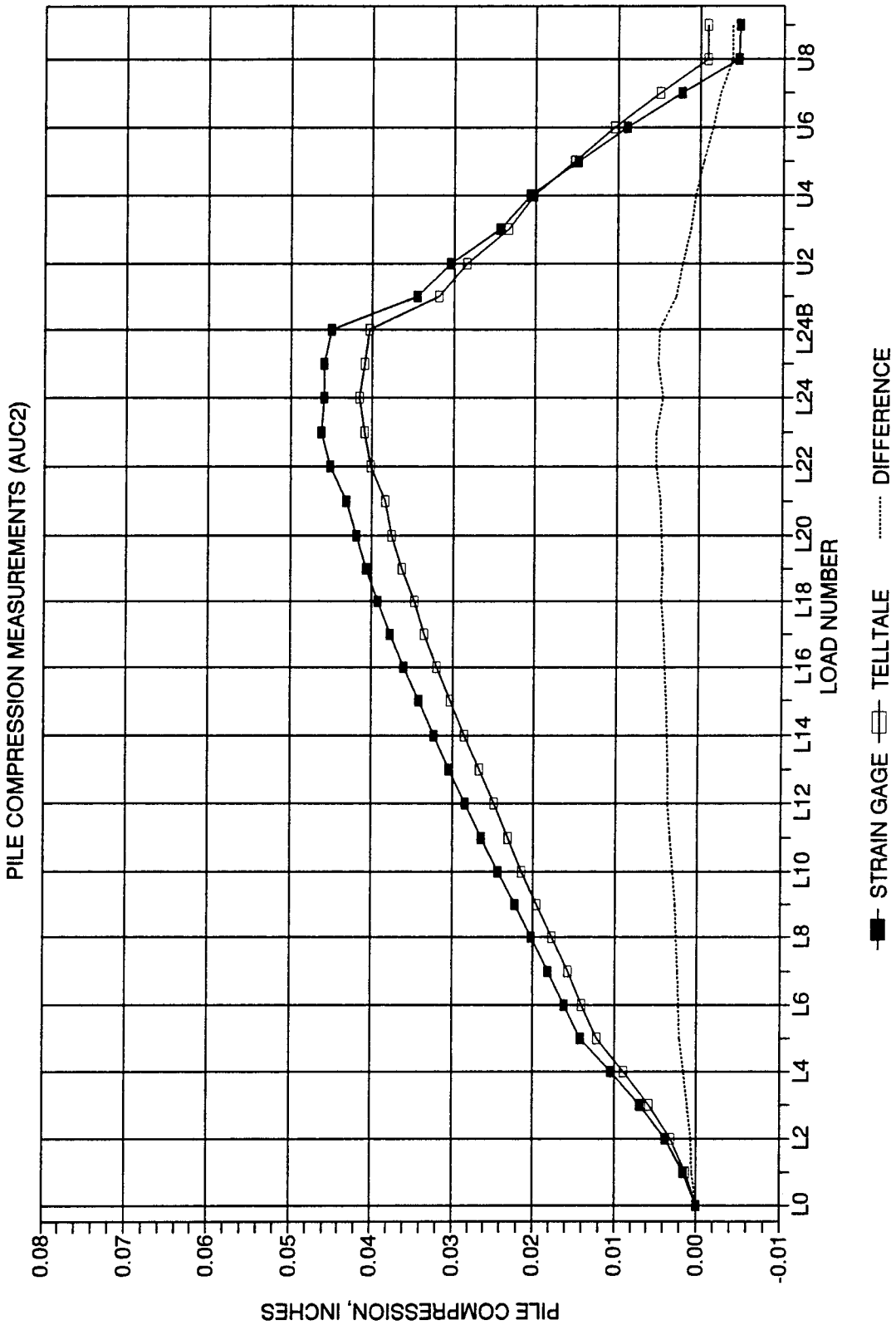

Figure F.74 Pile Compression Measurements: Aucilla Load Test 2

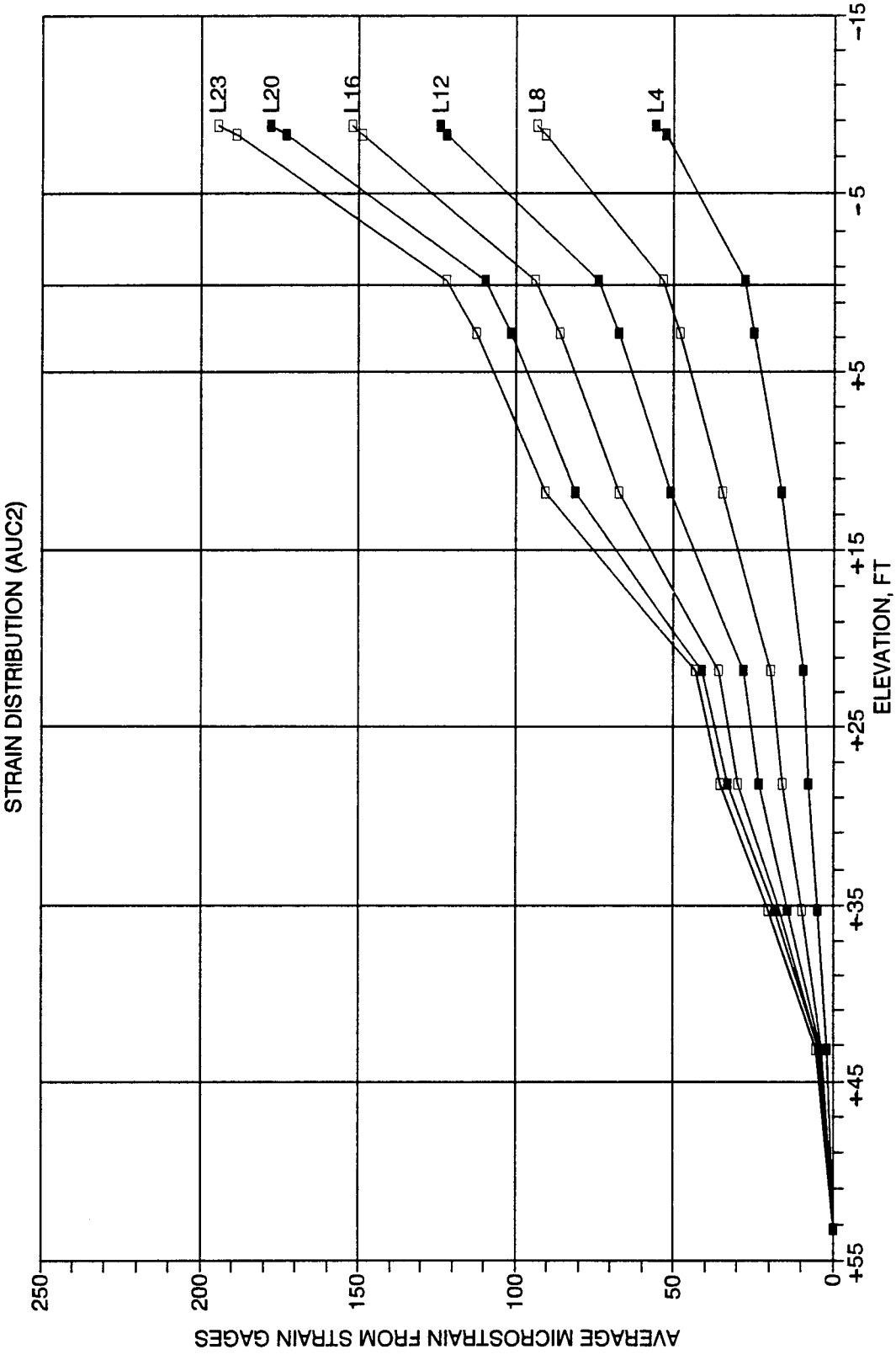

Figure F.75 Pile Strain Sistribution: Aucilla Load Test 2

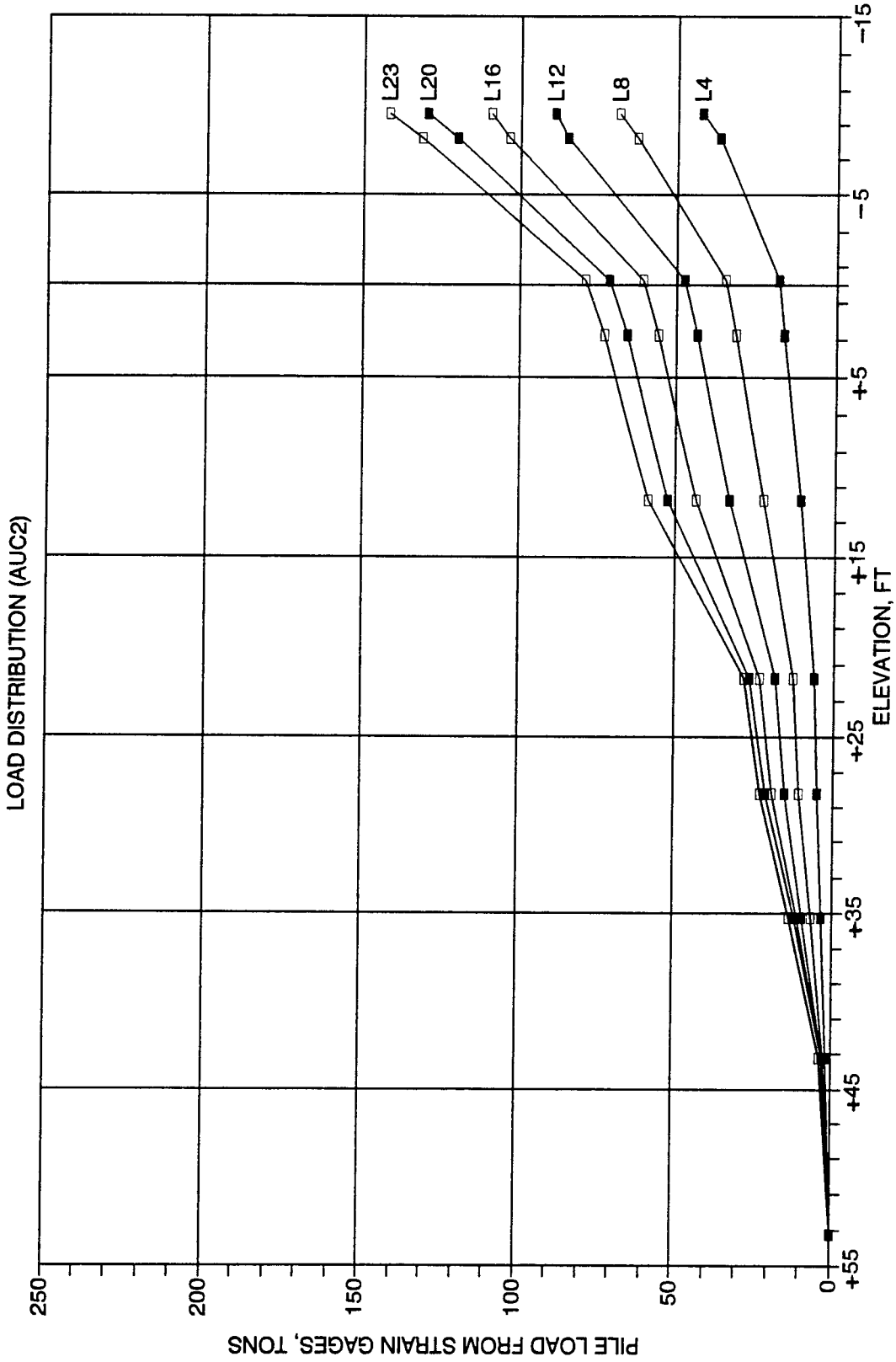

Figure F.76 Pile Load Distribution: Aucilla Load Test 2

Table F.16 Strain Analyses: Aucilla Load Test 3

VIBRATING WIRE INSTRUMENT READINGS - STRAIN

AUC 3 LOAD NUMBER	TIME	VW STRN FREQ^2 KHZ^2 13	VW STRN FREQ^2 KHZ^2 14	VW STRN FREQ^2 KHZ^2 15	VW STRN FREQ^2 KHZ^2 16	VW STRN FREQ^2 KHZ^2 3	VW STRN FREQ^2 KHZ^2 4	VW STRN FREQ^2 KHZ^2 17	VW STRN FREQ^2 KHZ^2 18	VW STRN FREQ^2 KHZ^2 7	VW STRN FREQ KHZ^2 8	VW STRN FREQ KHZ^2 35	VW STRN FREQ KHZ^2 36	VW STRN FREQ KHZ^2 21	VW STRN FREQ KHZ^2 22	VW STRN FREQ KHZ^2 41	VW STRN FREQ KHZ^2 42
L0	13:04:33	0.75844	0.74186	0.71126	0.72107	0.72171	0.74544	0.75678	0.67021	0.80823	0.67440	0.74786	0.71371	0.71151	0.69697	0.87522	0.79060
L0	13:38:38	0.75842	0.74185	0.71123	0.72107	0.72172	0.74542	0.75682	0.67022	0.80830	0.67444	0.74795	0.71383	0.71134	0.69695	0.87531	0.79076
L0	13:59:18	0.75843	0.74183	0.71119	0.72105	0.72168	0.74541	0.75679	0.67021	0.80828	0.67446	0.74798	0.71387	0.71135	0.69702	0.87533	0.79081
L1	14:01:37	0.75836	0.74179	0.71103	0.72076	0.72142	0.74501	0.75635	0.66991	0.80785	0.67383	0.74689	0.71287	0.71024	0.69573	0.87185	0.78823
L1	14:02:32	0.75836	0.74179	0.71103	0.72080	0.72141	0.74500	0.75636	0.66990	0.80784	0.67382	0.74688	0.71289	0.71019	0.69571	0.87174	0.78819
L1	14:04:32	0.75837	0.74179	0.71103	0.72079	0.72141	0.74500	0.75636	0.66989	0.80787	0.67383	0.74687	0.71286	0.71022	0.69573	0.87174	0.78821
L2	14:06:41	0.75834	0.74174	0.71073	0.72068	0.72084	0.74452	0.75580	0.66940	0.80651	0.67281	0.74514	0.71115	0.70832	0.69374	0.86702	0.78449
L2	14:07:40	0.75835	0.74175	0.71073	0.72067	0.72084	0.74451	0.75581	0.66922	0.80651	0.67283	0.74516	0.71120	0.70854	0.69376	0.86710	0.78456
L2	14:09:41	0.75834	0.74175	0.71073	0.72067	0.72084	0.74450	0.75580	0.66925	0.80649	0.67282	0.74516	0.71120	0.70852	0.69374	0.86705	0.78473
L3	14:11:45	0.75840	0.74170	0.71031	0.72041	0.72022	0.74391	0.75499	0.66872	0.80568	0.67145	0.74296	0.70880	0.70566	0.69119	0.86260	0.78095
L3	14:12:46	0.75839	0.74169	0.71030	0.72043	0.72022	0.74390	0.75497	0.66871	0.80564	0.67143	0.74292	0.70877	0.70565	0.69115	0.86255	0.78094
L3	14:14:44	0.75841	0.74170	0.71028	0.72041	0.72021	0.74391	0.75496	0.66871	0.80565	0.67139	0.74290	0.70876	0.70568	0.69116	0.86256	0.78098
L4	14:16:52	0.75823	0.74160	0.70991	0.71986	0.71958	0.74322	0.75401	0.66757	0.80406	0.66985	0.74042	0.70661	0.70307	0.68831	0.85773	0.77698
L4	14:17:51	0.75824	0.74162	0.70991	0.71982	0.71954	0.74314	0.75396	0.66786	0.80397	0.66975	0.74033	0.70649	0.70297	0.68836	0.85770	0.77693
L4	14:19:50	0.75823	0.74162	0.70989	0.71981	0.71953	0.74314	0.75395	0.66789	0.80395	0.66973	0.74034	0.70650	0.70300	0.68836	0.85775	0.77699
L5	14:21:51	0.75798	0.74148	0.70945	0.71905	0.71892	0.74236	0.75292	0.66692	0.80250	0.66787	0.73757	0.70396	0.70008	0.68543	0.85309	0.77272
L5	14:22:50	0.75799	0.74148	0.70944	0.71907	0.71890	0.74230	0.75287	0.66684	0.80246	0.66779	0.73754	0.70393	0.70007	0.68539	0.85303	0.77269
L5	14:24:50	0.75799	0.74146	0.70942	0.71904	0.71888	0.74225	0.75281	0.66684	0.80251	0.66774	0.73750	0.70387	0.70003	0.68531	0.85301	0.77268
L6	14:26:55	0.75777	0.74130	0.70884	0.71850	0.71787	0.74130	0.75160	0.66620	0.80026	0.66579	0.73478	0.70094	0.69704	0.68223	0.84844	0.76864
L6	14:27:54	0.75777	0.74130	0.70882	0.71849	0.71782	0.74121	0.75155	0.66614	0.79968	0.66569	0.73465	0.70106	0.69691	0.68211	0.84828	0.76839
L6	14:29:51	0.75777	0.74129	0.70878	0.71846	0.71778	0.74116	0.75152	0.66612	0.79962	0.66563	0.73464	0.70103	0.69693	0.68208	0.84836	0.76846
L7	14:31:50	0.75754	0.74110	0.70824	0.71758	0.71706	0.74021	0.75026	0.66499	0.79801	0.66362	0.73185	0.69813	0.69393	0.67898	0.84403	0.76420
L7	14:32:48	0.75753	0.74109	0.70821	0.71754	0.71701	0.74017	0.75021	0.66496	0.79798	0.66351	0.73177	0.69823	0.69390	0.67873	0.84398	0.76418
L7	14:34:48	0.75753	0.74109	0.70817	0.71747	0.71694	0.74013	0.75013	0.66495	0.79790	0.66340	0.73174	0.69827	0.69390	0.67870	0.84406	0.76427
L8	14:36:46	0.75731	0.74087	0.70758	0.71731	0.71586	0.73913	0.74878	0.66398	0.79587	0.66124	0.72878	0.69546	0.69083	0.67594	0.83905	0.75996
L8	14:37:45	0.75731	0.74087	0.70755	0.71729	0.71582	0.73914	0.74870	0.66389	0.79585	0.66106	0.72863	0.69540	0.69074	0.67587	0.83898	0.75999
L8	14:39:45	0.75731	0.74087	0.70750	0.71725	0.71578	0.73916	0.74864	0.66384	0.79584	0.66095	0.72865	0.69539	0.69077	0.67585	0.83904	0.75996
L9	14:41:47	0.75711	0.74071	0.70686	0.71632	0.71468	0.73787	0.74725	0.66267	0.79351	0.65871	0.72571	0.69234	0.68748	0.67275	0.83439	0.75573
L9	14:42:44	0.75711	0.74070	0.70685	0.71629	0.71462	0.73787	0.74719	0.66271	0.79346	0.65864	0.72566	0.69241	0.68744	0.67270	0.83434	0.75567
L9	14:44:45	0.75710	0.74070	0.70682	0.71631	0.71456	0.73781	0.74709	0.66271	0.79338	0.65852	0.72556	0.69241	0.68743	0.67268	0.83436	0.75575
L10	14:46:49	0.75695	0.74058	0.70615	0.71591	0.71361	0.73658	0.74571	0.66146	0.79099	0.65616	0.72243	0.68974	0.68410	0.66927	0.83009	0.75156
L10	14:47:46	0.75695	0.74059	0.70613	0.71590	0.71358	0.73651	0.74567	0.66142	0.79102	0.65603	0.72235	0.68975	0.68414	0.66932	0.83014	0.75166
L10	14:49:46	0.75695	0.74059	0.70609	0.71592	0.71354	0.73642	0.74560	0.66134	0.79100	0.65589	0.72231	0.68971	0.68410	0.66909	0.83010	0.75165
L11	14:51:50	0.75676	0.74039	0.70548	0.71494	0.71259	0.73544	0.74404	0.66034	0.78888	0.65351	0.71918	0.68685	0.68075	0.66645	0.82535	0.74735
L11	14:52:58	0.75677	0.74039	0.70548	0.71494	0.71258	0.73542	0.74399	0.66032	0.78884	0.65337	0.71906	0.68688	0.68065	0.66644	0.82529	0.74724
L11	14:54:50	0.75677	0.74040	0.70546	0.71495	0.71254	0.73539	0.74395	0.66028	0.78882	0.65327	0.71903	0.68685	0.68064	0.66643	0.82534	0.74738
L12	14:56:52	0.75665	0.74021	0.70488	0.71434	0.71141	0.73408	0.74241	0.65874	0.78691	0.65075	0.71595	0.68408	0.67735	0.66348	0.82127	0.74353
L12	14:57:50	0.75666	0.74022	0.70488	0.71456	0.71141	0.73404	0.74238	0.65873	0.78614	0.65066	0.71590	0.68404	0.67734	0.66348	0.82124	0.74344
L12	14:59:53	0.75665	0.74023	0.70489	0.71465	0.71139	0.73396	0.74231	0.65874	0.78583	0.65055	0.71581	0.68399	0.67731	0.66345	0.82122	0.74359
L13	15:01:50	0.75659	0.74013	0.70417	0.71394	0.71045	0.73301	0.74097	0.65794	0.78403	0.64812	0.71274	0.68119	0.67391	0.66066	0.81687	0.73958
L13	15:02:52	0.75661	0.74015	0.70419	0.71401	0.71050	0.73297	0.74093	0.65794	0.78401	0.64808	0.71273	0.68118	0.67387	0.66065	0.81686	0.73959
L13	15:04:51	0.75661	0.74016	0.70421	0.71406	0.71056	0.73294	0.74090	0.65789	0.78394	0.64801	0.71273	0.68121	0.67395	0.66076	0.81701	0.73978
L14	15:06:50	0.75656	0.74011	0.70396	0.71334	0.70973	0.73194	0.73956	0.65698	0.78201	0.64580	0.70995	0.67860	0.67071	0.65808	0.81323	0.73649

Table F.16 continued

VIBRATING WIRE INSTRUMENT READINGS - STRAIN

AUC 3 LOAD NUMBER	TIME	VW STRN FREQ^2 KHZ^2 13	VW STRN FREQ^2 KHZ^2 14	VW STRN FREQ^2 KHZ^2 15	VW STRN FREQ^2 KHZ^2 16	VW STRN FREQ^2 KHZ^2 3	VW STRN FREQ^2 KHZ^2 4	VW STRN FREQ^2 KHZ^2 17	VW STRN FREQ^2 KHZ^2 18	VW STRN FREQ^2 KHZ^2 7	VW STRN FREQ KHZ^2 8	VW STRN FREQ KHZ^2 35	VW STRN FREQ KHZ^2 36	VW STRN FREQ KHZ^2 21	VW STRN FREQ KHZ^2 22	VW STRN FREQ KHZ^2 41	VW STRN FREQ KHZ^2 42
L14	15:07:52	0.75658	0.74012	0.70400	0.71348	0.70984	0.73196	0.73957	0.65706	0.78198	0.64570	0.70988	0.67860	0.67068	0.65816	0.81322	0.73650
L14	15:09:48	0.75658	0.74012	0.70406	0.71362	0.70998	0.73201	0.73960	0.65717	0.78197	0.64567	0.70989	0.67902	0.67076	0.65837	0.81324	0.73690
L15	15:11:46	0.75655	0.74010	0.70358	0.71276	0.70915	0.73130	0.73866	0.65647	0.78017	0.64377	0.70695	0.67697	0.66796	0.65621	0.80852	0.73433
L15	15:12:50	0.75655	0.74009	0.70364	0.71289	0.70926	0.73133	0.73868	0.65649	0.78022	0.64375	0.70699	0.67705	0.66793	0.65651	0.80845	0.73483
L15	15:14:44	0.75657	0.74010	0.70369	0.71310	0.70938	0.73142	0.73880	0.65624	0.78037	0.64382	0.70710	0.67727	0.66779	0.65675	0.80853	0.73555
L16	15:17:18	0.75644	0.73996	0.70292	0.71271	0.70825	0.73002	0.73744	0.65521	0.77846	0.64159	0.70392	0.67507	0.66416	0.65382	0.80453	0.73121
L16	15:18:15	0.75641	0.73990	0.70270	0.71262	0.70823	0.73010	0.73749	0.65542	0.77875	0.64162	0.70368	0.67536	0.66403	0.65370	0.80345	0.73075
L16	15:20:07	0.75641	0.73982	0.70258	0.71255	0.70838	0.73025	0.73747	0.65570	0.77926	0.64220	0.70400	0.67633	0.66498	0.65473	0.80493	0.73173
L17	15:22:28	0.75634	0.73972	0.70247	0.71183	0.70798	0.72991	0.73741	0.65506	0.77899	0.64148	0.70221	0.67577	0.66355	0.65312	0.80302	0.72894
L17	15:23:31	0.75629	0.73967	0.70227	0.71122	0.70772	0.73002	0.73739	0.65529	0.77922	0.64177	0.70248	0.67644	0.66415	0.65362	0.80417	0.72887
L17	15:25:28	0.75617	0.73966	0.70235	0.71167	0.70796	0.73026	0.73738	0.65564	0.78002	0.64185	0.70184	0.67661	0.66405	0.65305	0.80332	0.72876
U1	15:29:58	0.75603	0.73964	0.70247	0.71163	0.70804	0.73056	0.73785	0.65601	0.78048	0.64274	0.70311	0.67824	0.66597	0.65487	0.80635	0.73114
U2	15:34:40	0.75614	0.73974	0.70307	0.71187	0.70879	0.73139	0.73870	0.65674	0.78166	0.64373	0.70490	0.67976	0.66792	0.65667	0.80859	0.73412
U2A	15:37:48	0.75616	0.73977	0.70323	0.71211	0.70899	0.73154	0.73883	0.65705	0.78183	0.64383	0.70525	0.68020	0.66811	0.65713	0.80955	0.73467
U2B	15:43:34	0.75622	0.73980	0.70339	0.71241	0.70921	0.73159	0.73904	0.65723	0.78198	0.64402	0.70558	0.68029	0.66850	0.65746	0.80961	0.73529
U2B	16:00:00	0.75631	0.73994	0.70365	0.71297	0.70954	0.73202	0.73924	0.65745	0.78222	0.64440	0.70620	0.68075	0.66905	0.65801	0.81038	0.73622
U2B	16:15:00	0.75632	0.73998	0.70388	0.71309	0.70990	0.73219	0.73928	0.65771	0.78249	0.64466	0.70665	0.68114	0.66939	0.65865	0.81167	0.73701
U2B	16:30:00	0.75633	0.74001	0.70399	0.71308	0.71002	0.73227	0.73943	0.65791	0.78270	0.64483	0.70706	0.68117	0.66967	0.65889	0.81177	0.73730
U2B	16:45:00	0.75634	0.74001	0.70403	0.71263	0.71005	0.73230	0.73948	0.65793	0.78277	0.64495	0.70712	0.68116	0.66980	0.65904	0.81172	0.73756

Table F.16 continued

VIBRATING WIRE INSTRUMENT READINGS - TEMPERATURE

AUC 3 LOAD NUMBER	TIME	VW STRN TEMP DEG C 13	VW STRN TEMP DEG C 14	VW STRN TEMP DEG C 15	VW STRN TEMP DEG C 16	VW STRN TEMP DEG C 3	VW STRN TEMP DEG C 4	VW STRN TEMP DEG C 17	VW STRN TEMP DEG C 18	VW STRN TEMP DEG C 7	VW STRN TEMP DEG C 8	VW STRN TEMP DEG C 35	VW STRN TEMP DEG C 36	VW STRN TEMP DEG C 21	VW STRN TEMP DEG C 22	VW STRN TEMP DEG C 41	VW STRN TEMP DEG C 42
L0	13:04:33	17.962	17.932	19.456	19.486	20.549	20.549	20.795	20.764	20.580	20.611	20.397	20.488	20.488	20.457	20.457	20.488
L0	13:38:38	17.989	17.930	19.454	19.484	20.548	20.548	20.824	20.762	20.548	20.609	20.425	20.486	20.486	20.486	20.456	20.486
L0	13:59:18	17.967	17.938	19.461	19.521	20.555	20.555	20.801	20.770	20.586	20.647	20.403	20.494	20.494	20.494	20.463	20.494
L1	14:01:37	17.967	17.938	19.461	19.492	20.556	20.586	20.801	20.740	20.586	20.648	20.433	20.494	20.494	20.494	20.464	20.494
L1	14:02:32	17.967	17.967	19.461	19.492	20.586	20.556	20.801	20.770	20.586	20.617	20.403	20.494	20.494	20.494	20.433	20.494
L1	14:04:32	17.968	17.938	19.462	19.492	20.556	20.556	20.802	20.771	20.556	20.617	20.434	20.495	20.495	20.464	20.434	20.495
L2	14:06:41	17.968	17.968	19.492	19.523	20.556	20.587	20.802	20.771	20.587	20.618	20.403	20.495	20.526	20.465	20.465	20.495
L2	14:07:40	17.968	17.938	19.462	19.523	20.587	20.556	20.802	20.771	20.587	20.618	20.403	20.495	20.495	20.465	20.434	20.495
L2	14:09:41	17.968	17.939	19.462	19.523	20.557	20.557	20.802	20.771	20.557	20.618	20.404	20.495	20.495	20.465	20.465	20.495
L3	14:11:45	17.968	17.939	19.462	19.492	20.587	20.557	20.802	20.771	20.587	20.618	20.404	20.495	20.495	20.465	20.465	20.495
L3	14:12:46	17.968	17.939	19.463	19.493	20.557	20.557	20.802	20.771	20.587	20.649	20.404	20.495	20.495	20.465	20.465	20.495
L3	14:14:44	17.968	17.939	19.463	19.493	20.557	20.557	20.802	20.771	20.618	20.618	20.404	20.495	20.495	20.465	20.465	20.495
L4	14:16:52	17.967	17.937	19.461	19.491	20.555	20.555	20.800	20.739	20.555	20.616	20.402	20.494	20.494	20.463	20.432	20.494
L4	14:17:51	17.967	17.937	19.461	19.491	20.555	20.555	20.800	20.770	20.555	20.616	20.402	20.494	20.523	20.462	20.462	20.523
L4	14:19:50	17.995	17.936	19.459	19.489	20.584	20.553	20.799	20.768	20.584	20.615	20.401	20.492	20.492	20.462	20.462	20.492
L5	14:21:51	17.964	17.934	19.458	19.519	20.552	20.552	20.798	20.767	20.583	20.614	20.399	20.491	20.491	20.460	20.460	20.522
L5	14:22:50	17.994	17.934	19.458	19.488	20.583	20.583	20.798	20.767	20.552	20.614	20.399	20.522	20.491	20.460	20.460	20.522
L5	14:24:50	17.993	17.934	19.457	19.487	20.551	20.551	20.797	20.735	20.582	20.613	20.398	20.490	20.490	20.490	20.459	20.490
L6	14:26:55	17.993	17.934	19.457	19.518	20.581	20.551	20.827	20.765	20.581	20.612	20.398	20.489	20.489	20.489	20.459	20.489
L6	14:27:54	17.963	17.933	19.456	19.517	20.581	20.581	20.796	20.765	20.581	20.612	20.398	20.489	20.489	20.489	20.459	20.489
L6	14:29:51	17.992	17.933	19.456	19.517	20.550	20.550	20.795	20.765	20.550	20.642	20.397	20.519	20.489	20.489	20.458	20.489
L7	14:31:50	17.992	17.962	19.456	19.486	20.550	20.550	20.795	20.765	20.581	20.611	20.397	20.519	20.489	20.489	20.458	20.489
L7	14:32:48	17.992	17.932	19.456	19.486	20.549	20.580	20.795	20.764	20.549	20.611	20.396	20.488	20.488	20.488	20.458	20.488
L7	14:34:48	17.962	17.932	19.486	19.486	20.549	20.549	20.795	20.764	20.580	20.611	20.396	20.488	20.519	20.488	20.458	20.488
L8	14:36:46	17.993	17.933	19.487	19.487	20.551	20.551	20.827	20.766	20.582	20.612	20.398	20.521	20.490	20.459	20.459	20.521
L8	14:37:45	17.993	17.933	19.457	19.487	20.582	20.582	20.796	20.766	20.582	20.612	20.398	20.490	20.521	20.459	20.459	20.490
L8	14:39:45	17.992	17.933	19.486	19.486	20.550	20.550	20.796	20.765	20.550	20.612	20.428	20.489	20.489	20.489	20.459	20.489
L9	14:41:47	17.993	17.934	19.458	19.488	20.582	20.552	20.828	20.766	20.613	20.613	20.399	20.491	20.491	20.460	20.460	20.491
L9	14:42:44	17.993	17.934	19.458	19.488	20.582	20.552	20.797	20.766	20.582	20.613	20.399	20.491	20.521	20.460	20.460	20.491
L9	14:44:45	17.994	17.935	19.459	19.489	20.553	20.553	20.798	20.768	20.553	20.614	20.400	20.492	20.492	20.492	20.461	20.492
L10	14:46:49	17.994	17.935	19.459	19.489	20.553	20.553	20.798	20.768	20.553	20.614	20.400	20.492	20.492	20.461	20.461	20.492
L10	14:47:46	17.993	17.964	19.458	19.488	20.552	20.552	20.797	20.797	20.582	20.613	20.399	20.490	20.490	20.460	20.460	20.521
L10	14:49:46	17.993	17.934	19.458	19.488	20.552	20.552	20.797	20.767	20.613	20.613	20.399	20.490	20.490	20.460	20.460	20.490
L11	14:51:50	17.994	17.935	19.459	19.489	20.584	20.553	20.798	20.768	20.584	20.614	20.400	20.492	20.492	20.461	20.461	20.492
L11	14:52:58	17.994	17.935	19.459	19.489	20.584	20.553	20.798	20.798	20.584	20.614	20.400	20.492	20.492	20.461	20.460	20.521
L11	14:54:50	17.993	17.934	19.458	19.488	20.552	20.552	20.797	20.797	20.613	20.644	20.399	20.491	20.521	20.460	20.460	20.491
L12	14:56:52	17.993	17.933	19.457	19.487	20.582	20.551	20.796	20.766	20.551	20.612	20.398	20.490	20.490	20.459	20.459	20.490
L12	14:57:50	17.993	17.933	19.487	19.487	20.582	20.551	20.796	20.766	20.582	20.612	20.398	20.490	20.490	20.459	20.459	20.520
L12	14:59:53	17.994	17.935	19.458	19.488	20.552	20.552	20.798	20.767	20.583	20.614	20.399	20.491	20.491	20.460	20.460	20.491
L13	15:01:50	17.964	17.964	19.458	19.488	20.552	20.552	20.798	20.798	20.583	20.614	20.399	20.491	20.521	20.490	20.460	20.521
L13	15:02:52	17.993	17.934	19.457	19.487	20.582	20.551	20.797	20.766	20.613	20.613	20.398	20.490	20.490	20.460	20.460	20.490
L13	15:04:51	17.993	17.934	19.457	19.517	20.551	20.551	20.797	20.766	20.582	20.613	20.398	20.520	20.489	20.459	20.489	20.489
L14	15:06:50	17.992	17.933	19.456	19.487	20.581	20.551	20.796	20.765	20.581	20.612	20.398	20.489	20.489	20.459	20.459	20.489

Table F.16 continued

VIBRATING WIRE INSTRUMENT READINGS - TEMPERATURE

AUC 3 LOAD NUMBER	TIME	VW STRN TEMP DEG C 13	VW STRN TEMP DEG C 14	VW STRN TEMP DEG C 15	VW STRN TEMP DEG C 16	VW STRN TEMP DEG C 3	VW STRN TEMP DEG C 4	VW STRN TEMP DEG C 17	VW STRN TEMP DEG C 18	VW STRN TEMP DEG C 7	VW STRN TEMP DEG C 8	VW STRN TEMP DEG C 35	VW STRN TEMP DEG C 36	VW STRN TEMP DEG C 21	VW STRN TEMP DEG C 22	VW STRN TEMP DEG C 41	VW STRN TEMP DEG C 42
L14	15:07:52	17.992	17.933	19.456	19.487	20.581	20.551	20.796	20.765	20.581	20.611	20.397	20.489	20.519	20.489	20.489	20.489
L14	15:09:48	17.992	17.933	19.456	19.486	20.550	20.550	20.795	20.795	20.581	20.611	20.397	20.519	20.489	20.458	20.458	20.489
L15	15:11:46	17.993	17.934	19.457	19.487	20.551	20.551	20.797	20.766	20.582	20.613	20.399	20.490	20.490	20.460	20.460	20.490
L15	15:12:50	17.993	17.934	19.457	19.487	20.551	20.551	20.797	20.797	20.582	20.613	20.399	20.490	20.490	20.460	20.460	20.521
L15	15:14:44	17.965	17.935	19.459	19.489	20.553	20.553	20.798	20.767	20.583	20.614	20.400	20.491	20.491	20.461	20.461	20.491
L16	15:17:18	17.995	17.965	19.459	19.490	20.554	20.554	20.830	20.799	20.584	20.615	20.431	20.492	20.523	20.492	20.492	20.492
L16	15:18:15	17.995	17.936	19.459	19.490	20.554	20.554	20.799	20.799	20.584	20.615	20.401	20.492	20.523	20.462	20.462	20.492
L16	15:20:07	17.996	17.936	19.490	19.490	20.554	20.554	20.800	20.769	20.554	20.616	20.432	20.524	20.493	20.462	20.462	20.493
L17	15:22:28	17.996	17.936	19.490	19.490	20.585	20.554	20.800	20.800	20.585	20.614	20.431	20.522	20.492	20.461	20.461	20.492
L17	15:23:31	17.994	17.935	19.489	19.489	20.584	20.553	20.798	20.768	20.584	20.645	20.431	20.492	20.492	20.461	20.461	20.522
L17	15:25:28	17.994	17.935	19.459	19.489	20.553	20.553	20.798	20.767	20.582	20.613	20.399	20.491	20.521	20.460	20.460	20.491
U1	15:29:58	17.994	17.965	19.489	19.489	20.553	20.553	20.798	20.798	20.584	20.614	20.400	20.492	20.492	20.492	20.461	20.492
U2	15:34:40	17.996	17.937	19.460	19.491	20.555	20.555	20.800	20.769	20.555	20.616	20.402	20.493	20.493	20.493	20.463	20.493
U2A	15:37:48	17.996	17.937	19.491	19.491	20.555	20.555	20.801	20.801	20.555	20.617	20.402	20.494	20.494	20.463	20.494	20.494
U2B	15:43:34	17.997	17.938	19.462	19.492	20.556	20.556	20.801	20.771	20.587	20.617	20.434	20.495	20.495	20.464	20.464	20.495
U2B	16:00:00	17.968	17.968	19.432	19.493	20.557	20.557	20.833	20.741	20.588	20.618	20.435	20.496	20.526	20.465	20.465	20.496
U2B	16:15:00	17.998	17.939	19.433	19.493	20.557	20.557	20.803	20.741	20.557	20.619	20.404	20.496	20.496	20.465	20.465	20.496
U2B	16:30:00	17.998	17.939	19.433	19.493	20.557	20.557	20.803	20.739	20.555	20.647	20.402	20.494	20.494	20.494	20.463	20.494
U2B	16:45:00	17.998	17.939	19.462	19.493	20.557	20.557	20.802	20.741	20.557	20.618	20.404	20.496	20.526	20.434	20.465	20.496

Table F.16 continued

VIBRATING WIRE CALCULATED STRAIN INCREMENTS

AUC 3 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 13	VW STRN MICRO STRAIN 14	VW STRN MICRO STRAIN 15	VW STRN MICRO STRAIN 16	VW STRN MICRO STRAIN 3	VW STRN MICRO STRAIN 4	VW STRN MICRO STRAIN 17	VW STRN MICRO STRAIN 18	VW STRN MICRO STRAIN 7	VW STRN MICRO STRAIN 8	VW STRN MICRO STRAIN 35	VW STRN MICRO STRAIN 36	VW STRN MICRO STRAIN 21	VW STRN MICRO STRAIN 22	VW STRN MICRO STRAIN 41	VW STRN MICRO STRAIN 42
L0	13:04:33	-0.0	-0.1	-0.2	-0.0	-0.1	-0.1	0.0	0.0	0.2	0.2	0.4	0.5	-0.5	0.2	0.4	0.7
L0	13:38:38	0.0	-0.1	-0.1	-0.0	-0.1	-0.0	-0.1	-0.0	-0.0	0.1	0.1	0.1	0.0	0.2	0.1	0.2
L0	13:59:18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
L1	14:01:37	0.2	0.1	0.5	1.0	0.9	1.3	1.5	1.0	1.4	2.1	3.6	3.3	3.7	4.3	11.5	8.5
L1	14:02:32	0.2	0.1	0.5	0.9	0.9	1.4	1.4	1.0	1.5	2.2	3.6	3.2	3.8	4.3	11.9	8.7
L1	14:04:32	0.2	0.1	0.5	0.9	0.9	1.4	1.4	1.1	1.4	2.1	3.6	3.3	3.7	4.3	11.9	8.6
L2	14:06:41	0.3	0.3	1.5	1.2	2.8	2.9	3.3	2.7	5.8	5.5	9.4	9.0	10.0	10.9	27.5	20.9
L2	14:07:40	0.3	0.3	1.5	1.3	2.7	3.0	3.2	3.3	5.8	5.4	9.3	8.8	9.3	10.8	27.2	20.6
L2	14:09:41	0.3	0.3	1.5	1.3	2.8	3.0	3.3	3.2	6.0	5.5	9.3	8.8	9.3	10.9	27.4	20.1
L3	14:11:45	0.1	0.4	2.9	2.2	4.8	5.0	5.9	4.9	8.6	10.0	16.6	16.7	18.8	19.3	42.1	32.6
L3	14:12:46	0.1	0.5	2.9	2.1	4.8	5.0	6.0	5.0	8.7	10.0	16.7	16.8	18.8	19.4	42.2	32.6
L3	14:14:44	0.1	0.4	3.0	2.2	4.9	5.0	6.0	5.0	8.6	10.2	16.8	16.9	18.7	19.4	42.2	32.5
L4	14:16:52	0.7	0.8	4.2	4.0	6.9	7.2	9.2	8.8	14.0	15.3	25.0	24.0	27.4	28.8	58.2	45.7
L4	14:17:51	0.6	0.7	4.2	4.1	7.1	7.5	9.4	7.8	14.3	15.6	25.3	24.4	27.6	28.7	58.3	45.8
L4	14:19:50	0.6	0.7	4.3	4.1	7.1	7.5	9.4	7.7	14.3	15.7	25.2	24.4	27.6	28.7	58.1	45.7
L5	14:21:51	1.5	1.2	5.8	6.6	9.1	10.1	12.8	10.9	19.1	21.8	34.4	32.7	37.2	38.3	73.5	59.7
L5	14:22:50	1.4	1.2	5.8	6.6	9.1	10.2	13.0	11.1	19.3	22.1	34.5	32.8	37.3	38.5	73.7	59.8
L5	14:24:50	1.4	1.2	5.9	6.7	9.3	10.4	13.2	11.2	19.1	22.2	34.6	33.0	37.4	38.7	73.8	59.9
L6	14:26:55	2.1	1.8	7.8	8.4	12.6	13.6	17.1	13.3	26.5	28.7	43.6	42.7	47.3	48.9	88.8	73.3
L6	14:27:54	2.2	1.8	7.8	8.5	12.7	13.8	17.3	13.5	28.4	29.0	44.0	42.3	47.7	49.3	89.4	74.1
L6	14:29:51	2.1	1.8	8.0	8.6	12.9	14.0	17.4	13.5	28.7	29.2	44.1	42.4	47.7	49.4	89.1	73.9
L7	14:31:50	2.9	2.4	9.8	11.5	15.3	17.2	21.6	17.3	33.9	35.9	53.3	52.0	57.6	59.6	103.4	87.9
L7	14:32:48	2.9	2.5	9.9	11.6	15.4	17.3	21.7	17.4	34.1	36.2	53.6	51.7	57.7	60.4	103.6	88.0
L7	14:34:48	3.0	2.5	9.9	11.9	15.7	17.5	22.0	17.4	34.3	36.6	53.7	51.6	57.6	60.5	103.3	87.7
L8	14:36:46	3.7	3.2	11.9	12.4	19.2	20.8	26.4	20.6	41.0	43.7	63.4	60.8	67.8	69.7	119.9	101.9
L8	14:37:45	3.7	3.2	12.0	12.5	19.3	20.7	26.7	20.9	41.1	44.3	63.9	61.0	68.1	69.9	120.1	101.8
L8	14:39:45	3.7	3.2	12.2	12.6	19.5	20.7	26.9	21.1	41.1	44.7	63.8	61.1	68.0	70.0	119.9	101.9
L9	14:41:47	4.3	3.7	14.3	15.7	23.1	24.9	31.5	24.9	48.8	52.1	73.6	71.1	78.9	80.2	135.3	115.9
L9	14:42:44	4.3	3.7	14.3	15.8	23.3	24.9	31.7	24.8	49.0	52.3	73.8	70.9	79.0	80.4	135.4	116.1
L9	14:44:45	4.4	3.7	14.4	15.7	23.5	25.1	32.1	24.8	49.3	52.7	74.1	70.9	79.0	80.4	135.4	115.8
L10	14:46:49	4.9	4.1	16.7	17.0	26.7	29.2	36.6	28.9	57.2	60.5	84.4	79.7	90.0	91.7	149.5	129.7
L10	14:47:46	4.9	4.1	16.7	17.1	26.8	29.4	36.7	29.0	57.0	60.9	84.7	79.7	89.9	91.6	149.3	129.3
L10	14:49:46	4.9	4.1	16.9	17.0	26.9	29.7	37.0	29.3	57.1	61.4	84.8	79.8	90.0	92.3	149.4	129.4
L11	14:51:50	5.5	4.8	18.9	20.2	30.0	32.9	42.1	32.6	64.1	69.3	95.2	89.3	101.1	101.0	165.1	143.6
L11	14:52:58	5.4	4.8	18.9	20.2	30.0	33.0	42.3	32.6	64.2	69.7	95.6	89.2	101.4	101.1	165.3	143.9
L11	14:54:50	5.5	4.7	18.9	20.2	30.2	33.1	42.4	32.8	64.3	70.0	95.7	89.3	101.4	101.1	165.2	143.5
L12	14:56:52	5.8	5.4	20.9	22.2	33.9	37.4	47.5	37.9	70.7	78.4	105.8	98.4	112.3	110.9	178.6	156.2
L12	14:57:50	5.8	5.3	20.8	21.5	33.9	37.6	47.6	37.9	73.2	78.7	106.0	98.6	112.4	110.9	178.7	156.5
L12	14:59:53	5.8	5.3	20.8	21.2	34.0	37.8	47.8	37.9	74.2	79.0	106.3	98.7	112.5	111.0	178.8	156.0
L13	15:01:50	6.1	5.6	23.2	23.5	37.1	41.0	52.3	40.5	80.1	87.1	116.4	108.0	123.7	120.1	193.2	169.2
L13	15:02:52	6.0	5.6	23.1	23.3	36.9	41.1	52.4	40.5	80.2	87.2	116.5	108.0	123.8	120.2	193.2	169.2
L13	15:04:51	6.0	5.5	23.1	23.1	36.7	41.2	52.5	40.7	80.4	87.4	116.5	107.9	123.6	119.8	192.7	168.6
L14	15:06:50	6.1	5.7	23.9	25.5	39.4	44.5	56.9	43.7	86.8	94.7	125.7	116.5	134.3	128.7	205.2	179.5

Table F.16 continued

VIBRATING WIRE CALCULATED STRAIN INCREMENTS

AUC 3 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 13	VW STRN MICRO STRAIN 14	VW STRN MICRO STRAIN 15	VW STRN MICRO STRAIN 16	VW STRN MICRO STRAIN 3	VW STRN MICRO STRAIN 4	VW STRN MICRO STRAIN 17	VW STRN MICRO STRAIN 18	VW STRN MICRO STRAIN 7	VW STRN MICRO STRAIN 8	VW STRN MICRO STRAIN 35	VW STRN MICRO STRAIN 36	VW STRN MICRO STRAIN 21	VW STRN MICRO STRAIN 22	VW STRN MICRO STRAIN 41	VW STRN MICRO STRAIN 42
L14	15:07:52	6.1	5.7	23.8	25.1	39.1	44.4	56.9	43.5	86.9	95.1	125.9	116.5	134.3	128.4	205.2	179.4
L14	15:09:48	6.1	5.7	23.6	24.6	38.7	44.3	56.8	43.1	86.9	95.2	125.9	115.1	134.1	127.7	205.2	178.1
L15	15:11:46	6.2	5.7	25.1	27.4	41.4	46.6	59.9	45.4	92.9	101.4	135.6	121.9	143.4	134.9	220.7	186.6
L15	15:12:50	6.2	5.8	25.0	27.0	41.0	46.5	59.8	45.3	92.7	101.5	135.4	121.7	143.5	133.9	221.0	184.9
L15	15:14:44	6.1	5.7	24.8	26.3	40.6	46.2	59.4	46.2	92.2	101.3	135.1	120.9	143.9	133.1	220.7	182.6
L16	15:17:18	6.5	6.1	27.3	27.6	44.4	50.8	63.9	49.5	98.5	108.6	145.5	128.2	155.9	142.7	233.9	196.9
L16	15:18:15	6.6	6.4	28.1	27.9	44.4	50.6	63.8	48.8	97.6	108.5	146.4	127.2	156.3	143.2	237.5	198.4
L16	15:20:07	6.6	6.6	28.4	28.1	43.9	50.1	63.8	47.9	95.9	106.6	145.3	124.0	153.2	139.8	232.6	195.2
L17	15:22:28	6.9	7.0	28.8	30.5	45.2	51.2	64.0	50.0	96.8	109.0	151.2	125.8	157.9	145.1	238.9	204.4
L17	15:23:31	7.0	7.1	29.4	32.5	46.1	50.9	64.1	49.3	96.0	108.0	150.3	123.7	156.0	143.4	235.1	204.6
L17	15:25:28	7.4	7.2	29.2	31.0	45.3	50.1	64.1	48.1	93.4	107.8	152.5	123.1	156.2	145.3	237.9	205.0
U1	15:29:58	7.9	7.2	28.8	31.2	45.1	49.1	62.6	46.9	91.9	104.8	148.3	117.7	149.9	139.3	227.9	197.2
U2	15:34:40	7.5	6.9	26.8	30.4	42.6	46.3	59.8	44.5	88.0	101.6	142.3	112.7	143.5	133.3	220.5	187.3
U2A	15:37:48	7.5	6.8	26.3	29.6	41.9	45.8	59.3	43.4	87.4	101.2	141.2	111.2	142.9	131.8	217.3	185.5
U2B	15:43:34	7.3	6.7	25.8	28.6	41.2	45.7	58.6	42.9	86.9	100.6	140.0	110.9	141.6	130.7	217.1	183.4
U2B	16:00:00	7.0	6.2	24.9	26.7	40.1	44.2	57.9	42.2	86.1	99.4	138.0	109.4	139.7	128.9	214.6	180.4
U2B	16:15:00	6.9	6.1	24.2	26.3	38.9	43.7	57.9	41.3	85.2	98.5	136.6	108.1	138.6	126.8	210.3	177.8
U2B	16:30:00	6.9	6.0	23.8	26.4	38.5	43.4	57.4	40.7	84.6	97.9	135.2	108.0	137.7	126.0	210.0	176.8
U2B	16:45:00	6.9	6.0	23.7	27.9	38.4	43.3	57.2	40.6	84.3	97.5	135.0	108.1	137.2	125.6	210.2	175.9

Table F.16 continued

VIBRATING WIRE CALCULATED STRAIN (4 MINUTE READINGS)

AUC 3 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 13	VW STRN MICRO STRAIN 14	VW STRN MICRO STRAIN 15	VW STRN MICRO STRAIN 16	VW STRN MICRO STRAIN 3	VW STRN MICRO STRAIN 4	VW STRN MICRO STRAIN 17	VW STRN MICRO STRAIN 18	VW STRN MICRO STRAIN 7	VW STRN MICRO STRAIN 8	VW STRN MICRO STRAIN 35	VW STRN MICRO STRAIN 36	VW STRN MICRO STRAIN 21	VW STRN MICRO STRAIN 22	VW STRN MICRO STRAIN 41	VW STRN MICRO STRAIN 42
L0	13:59:18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
L1	14:04:32	0.2	0.1	0.5	0.9	0.9	1.4	1.4	1.1	1.4	2.1	3.6	3.3	3.7	4.3	11.9	8.6
L2	14:09:41	0.3	0.3	1.5	1.3	2.8	3.0	3.3	3.2	6.0	5.5	9.3	8.8	9.3	10.9	27.4	20.1
L3	14:14:44	0.1	0.4	3.0	2.2	4.9	5.0	6.0	5.0	8.6	10.2	16.8	16.9	18.7	19.4	42.2	32.5
L4	14:19:50	0.6	0.7	4.3	4.1	7.1	7.5	9.4	7.7	14.3	15.7	25.2	24.4	27.6	28.7	58.1	45.7
L5	14:24:50	1.4	1.2	5.9	6.7	9.3	10.4	13.2	11.2	19.1	22.2	34.6	33.0	37.4	38.7	73.8	59.9
L6	14:29:51	2.1	1.8	8.0	8.6	12.9	14.0	17.4	13.5	28.7	29.2	44.1	42.4	47.7	49.4	89.1	73.9
L7	14:34:48	3.0	2.5	9.9	11.9	15.7	17.5	22.0	17.4	34.3	36.6	53.7	51.6	57.6	60.5	103.3	87.7
L8	14:39:45	3.7	3.2	12.2	12.6	19.5	20.7	26.9	21.1	41.1	44.7	63.8	61.1	68.0	70.0	119.9	101.9
L9	14:44:45	4.4	3.7	14.4	15.7	23.5	25.1	32.1	24.8	49.3	52.7	74.1	70.9	79.0	80.4	135.4	115.8
L10	14:49:46	4.9	4.1	16.9	17.0	26.9	29.7	37.0	29.3	57.1	61.4	84.8	79.8	90.0	92.3	149.4	129.4
L11	14:54:50	5.5	4.7	18.9	20.2	30.2	33.1	42.4	32.8	64.3	70.0	95.7	89.3	101.4	101.1	165.2	143.5
L12	14:59:53	5.8	5.3	20.8	21.2	34.0	37.8	47.8	37.9	74.2	79.0	106.3	98.7	112.5	111.0	178.8	156.0
L13	15:04:51	6.0	5.5	23.1	23.1	36.7	41.2	52.5	40.7	80.4	87.4	116.5	107.9	123.6	119.8	192.7	168.6
L14	15:09:48	6.1	5.7	23.6	24.6	38.7	44.3	56.8	43.1	86.9	95.2	125.9	115.1	134.1	127.7	205.2	178.1
L15	15:14:44	6.1	5.7	24.8	26.3	40.6	46.2	59.4	46.2	92.2	101.3	135.1	120.9	143.9	133.1	220.7	182.6
L16	15:20:07	6.6	6.6	28.4	28.1	43.9	50.1	63.8	47.9	95.9	106.6	145.3	124.0	153.2	139.8	232.6	195.2
L17	15:25:28	7.4	7.2	29.2	31.0	45.3	50.1	64.1	48.1	93.4	107.8	152.5	123.1	156.2	145.3	237.9	205.0
U1	15:29:58	7.9	7.2	28.8	31.2	45.1	49.1	62.6	46.9	91.9	104.8	148.3	117.7	149.9	139.3	227.9	197.2
U2	15:34:40	7.5	6.9	26.8	30.4	42.6	46.3	59.8	44.5	88.0	101.6	142.3	112.7	143.5	133.3	220.5	187.3
U2A	15:37:48	7.5	6.8	26.3	29.6	41.9	45.8	59.3	43.4	87.4	101.2	141.2	111.2	142.9	131.8	217.3	185.5
U2B	15:43:34	7.3	6.7	25.8	28.6	41.2	45.7	58.6	42.9	86.9	100.6	140.0	110.9	141.6	130.7	217.1	183.4

Table F.16 continued

AVERAGE STRAIN AT EACH GAGE LEVEL, INTEGRATED PILE COMPRESSION & COMPARISON WITH TELLTALE MEASUREMENT (4 MINUTE READINGS)

AUC 3 LOAD NUMBER	AVG VW MICRO STRAIN SURFACE	AVG VW MICRO STRAIN 13+14	AVG VW MICRO STRAIN 15+16	AVG VW MICRO STRAIN 3+4	AVG VW MICRO STRAIN 17+18	AVG VW MICRO STRAIN 7+8	AVG VW MICRO STRAIN 35+36	AVG VW MICRO STRAIN 21+22	AVG VW MICRO STRAIN 41+42	EST'D. MICRO STRAIN CELL TOP	PILE COMPRESSION SG MSMT. INCHES	PILE COMPRESSION TT MSMT. INCHES	ABS.DIFF. SG-TT INCHES
L0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0000	0.0000	0.0000
L1	0.0	0.2	0.7	1.1	1.2	1.8	3.5	4.0	10.2	12.2	0.0016	0.0012	0.0004
L2	0.0	0.3	1.4	2.9	3.2	5.7	9.1	10.1	23.7	26.0	0.0040	0.0032	0.0008
L3	0.0	0.2	2.6	4.9	5.5	9.4	16.8	19.1	37.3	39.9	0.0068	0.0055	0.0013
L4	0.0	0.7	4.2	7.3	8.5	15.0	24.8	28.1	51.9	54.4	0.0100	0.0082	0.0018
L5	0.0	1.3	6.3	9.9	12.2	20.7	33.8	38.1	66.8	69.3	0.0136	0.0115	0.0022
L6	0.0	2.0	8.3	13.5	15.5	28.9	43.2	48.5	81.5	83.8	0.0176	0.0148	0.0028
L7	0.0	2.7	10.9	16.6	19.7	35.4	52.6	59.1	95.5	97.8	0.0215	0.0183	0.0032
L8	0.0	3.4	12.4	20.1	24.0	42.9	62.4	69.0	110.9	112.8	0.0254	0.0218	0.0036
L9	0.0	4.0	15.1	24.3	28.4	51.0	72.5	79.7	125.6	127.3	0.0297	0.0255	0.0042
L10	0.0	4.5	16.9	28.3	33.1	59.2	82.3	91.2	139.4	141.2	0.0338	0.0291	0.0047
L11	0.0	5.1	19.6	31.7	37.6	67.1	92.5	101.3	154.3	155.8	0.0379	0.0328	0.0052
L12	0.0	5.6	21.0	35.9	42.9	76.6	102.5	111.7	167.4	169.2	0.0422	0.0365	0.0057
L13	0.0	5.8	23.1	39.0	46.6	83.9	112.2	121.7	180.6	182.6	0.0459	0.0399	0.0060
L14	0.0	5.9	24.1	41.5	49.9	91.1	120.5	130.9	191.6	194.7	0.0492	0.0430	0.0062
L15	0.0	5.9	25.5	43.4	52.8	96.7	128.0	138.5	201.6	206.2	0.0520	0.0456	0.0064
L16	0.0	6.6	28.3	47.0	55.9	101.3	134.6	146.5	213.9	219.1	0.0551	0.0489	0.0062
L17	0.0	7.3	30.1	47.7	56.1	100.6	137.8	150.8	221.5	225.5	0.0562	0.0497	0.0066
U1	0.0	7.5	30.0	47.1	54.7	98.3	133.0	144.6	212.5	216.5	0.0546	0.0482	0.0064
U2	0.0	7.2	28.6	44.5	52.1	94.8	127.5	138.4	203.9	129.8	0.0520	0.0467	0.0054
U2A	0.0	7.1	27.9	43.9	51.4	94.3	126.2	137.4	201.4	128.2	0.0515	0.0463	0.0052
U2B	0.0	7.0	27.2	43.4	50.8	93.8	125.5	136.2	200.3	127.5	0.0510	0.0458	0.0052
ELEV. FT	53.21	43.25	35.25	28.25	21.75	11.75	2.75	-0.25	-8.25	-8.75			

Table F.16 continued

VIBRATING WIRE CALCULATED AVERAGE LOADS (4 MINUTE READINGS)

LA = 8.00 ft ACA = 317.115 si
LB = 1.38 ft ACB = 313.155 si
B = 18.00 in ASA = 3.538 si
ES = 27500.0 ksi ASB = 7.498 si

AUC 3 LOAD NUMBER	AVG VW LOAD TONS SURFACE	AVG VW LOAD TONS 13+14	AVG VW LOAD TONS 15+16	AVG VW LOAD TONS 3+4	AVG VW LOAD TONS 17+18	AVG VW LOAD TONS 7+8	AVG VW LOAD TONS 35+36	AVG VW LOAD TONS 21+22	AVG VW LOAD TONS 41+42	OSTERBERG LOAD TONS BOTTOM	INCR. PILE MODULUS KSI	CALC. PILE A MODULUS KSI	CALC. PILE B MODULUS KSI
L0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0		4170.0	4457.8
L1	0.0	0.11	0.48	0.76	0.84	1.19	2.35	2.71	7.40	11.2	6759.3	4170.0	4457.8
L2	0.0	0.19	0.94	1.95	2.18	3.85	6.13	6.83	17.13	21.7	4823.4	4170.0	4457.8
L3	0.0	0.17	1.74	3.31	3.72	6.36	11.37	12.88	26.96	32.1	4716.0	4170.0	4457.8
L4	0.0	0.45	2.85	4.92	5.76	10.13	16.75	19.00	37.46	42.6	4418.2	4170.0	4457.8
L5	0.0	0.89	4.24	6.65	8.22	13.96	22.86	25.70	48.26	53.1	4346.4	4170.0	4457.8
L6	0.0	1.33	5.58	9.10	10.45	19.54	29.21	32.77	58.84	63.5	4374.7	4170.0	4457.8
L7	0.0	1.84	7.37	11.19	13.31	23.95	35.54	39.91	68.97	73.5	4431.7	4170.0	4457.8
L8	0.0	2.31	8.36	13.56	16.21	28.99	42.19	46.60	80.10	83.8	4092.5	4170.0	4457.8
L9	0.0	2.73	10.18	16.43	19.20	34.45	48.97	53.86	90.71	94.1	4359.2	4170.0	4457.8
L10	0.0	3.03	11.43	19.12	22.39	40.01	55.61	61.60	100.68	104.3	4540.3	4170.0	4457.8
L11	0.0	3.44	13.22	21.39	25.40	45.35	62.47	68.41	111.45	114.3	4156.8	4170.0	4457.8
L12	0.0	3.76	14.19	24.26	28.96	51.75	69.25	75.47	120.89	124.4	4777.5	4170.0	4457.8
L13	0.0	3.89	15.59	26.33	31.49	56.70	75.78	82.22	130.45	134.4	4666.8	4170.0	4457.8
L14	0.0	3.96	16.27	28.02	33.73	61.51	81.39	88.45	138.39	144.4	5600.4	4170.0	4457.8
L15	0.0	4.01	17.26	29.34	35.67	65.36	86.47	93.57	145.62	154.7	6314.7	4170.0	4457.8
L16	0.0	4.49	19.10	31.76	37.76	68.42	90.95	98.96	154.47	164.8	5106.0	4170.0	4457.8
L17	0.0	4.93	20.35	32.22	37.92	67.95	93.08	101.86	159.94	167.9	2505.6	4170.0	4457.8
U1	0.0	5.10	20.25	31.80	36.97	66.44	89.84	97.68	153.48	161.4		4170.0	4457.8
U2	0.0	4.88	19.32	30.03	35.22	64.03	86.14	93.50	147.25	0.0		4170.0	4457.8
U2A	0.0	4.82	18.86	29.64	34.72	63.73	85.26	92.79	145.44	0.0		4170.0	4457.8
U2B	0.0	4.72	18.36	29.34	34.29	63.33	84.78	91.98	144.64	0.0		4170.0	4457.8
ELEV. FT	53.21	43.25	35.25	28.25	21.75	11.75	2.75	-0.25	-8.25	-9.63	3953.7 KSI = CONCRETE MODULUS		

Table F.16 continued

INTEGRATED MOVEMENT AT VW STRAIN GAGE (4 MINUTE READINGS)

AUC 3 LOAD NUMBER	VW MOVEMENT INCHES SURFACE	VW MOVEMENT INCHES 13+14	VW MOVEMENT INCHES 15+16	VW MOVEMENT INCHES 3+4	VW MOVEMENT INCHES 17+18	VW MOVEMENT INCHES 7+8	VW MOVEMENT INCHES 35+36	VW MOVEMENT INCHES 21+22	VW MOVEMENT INCHES 41+42	VW MOVEMENT INCHES CELL TOP
L0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L1	-0.0004	-0.0004	-0.0004	-0.0003	-0.0002	-0.0000	0.0003	0.0004	0.0011	0.0012
L2	-0.0008	-0.0008	-0.0007	-0.0005	-0.0003	0.0002	0.0010	0.0014	0.0030	0.0032
L3	-0.0013	-0.0013	-0.0012	-0.0009	-0.0004	0.0004	0.0019	0.0025	0.0052	0.0055
L4	-0.0018	-0.0018	-0.0016	-0.0011	-0.0005	0.0009	0.0031	0.0040	0.0079	0.0082
L5	0.0028	0.0029	0.0033	0.0039	0.0048	0.0068	0.0097	0.0110	0.0160	0.0164
L6	0.0022	0.0023	0.0028	0.0037	0.0049	0.0075	0.0114	0.0131	0.0193	0.0198
L7	0.0038	0.0040	0.0046	0.0058	0.0072	0.0105	0.0152	0.0172	0.0247	0.0252
L8	0.0064	0.0066	0.0073	0.0087	0.0104	0.0144	0.0201	0.0225	0.0311	0.0318
L9	0.0108	0.0110	0.0120	0.0136	0.0157	0.0204	0.0271	0.0298	0.0397	0.0404
L10	0.0153	0.0156	0.0166	0.0185	0.0209	0.0264	0.0341	0.0372	0.0483	0.0491
L11	0.0148	0.0151	0.0163	0.0185	0.0212	0.0274	0.0361	0.0396	0.0518	0.0528
L12	0.0183	0.0187	0.0199	0.0223	0.0254	0.0326	0.0422	0.0461	0.0595	0.0605
L13	0.0290	0.0293	0.0307	0.0333	0.0367	0.0445	0.0551	0.0593	0.0738	0.0749
L14	0.0338	0.0341	0.0356	0.0383	0.0419	0.0504	0.0618	0.0663	0.0818	0.0830
L15	0.0486	0.0489	0.0504	0.0533	0.0571	0.0661	0.0782	0.0830	0.0993	0.1005
L16	0.1288	0.1292	0.1309	0.1341	0.1381	0.1475	0.1602	0.1653	0.1826	0.1839
L17	0.4334	0.4339	0.4357	0.4389	0.4430	0.4524	0.4652	0.4704	0.4883	0.4896
U1	0.5086	0.5090	0.5108	0.5141	0.5180	0.5272	0.5397	0.5447	0.5619	0.5632
U2	0.5246	0.5251	0.5268	0.5298	0.5336	0.5424	0.5544	0.5592	0.5756	0.5767
U2A	0.5268	0.5272	0.5289	0.5319	0.5356	0.5443	0.5563	0.5610	0.5773	0.5783
U2B	0.5148	0.5152	0.5168	0.5198	0.5234	0.5321	0.5440	0.5487	0.5648	0.5658

Table F.16 continued

INTEGRATED MOVEMENT AT SEGMENT CL (4 MINUTE READINGS)

AUC 3 LOAD NUMBER CL.ELEV.	AVG VW MOVEMENT INCHES 48.23	AVG VW MOVEMENT INCHES 39.25	AVG VW MOVEMENT INCHES 31.75	AVG VW MOVEMENT INCHES 25.00	AVG VW MOVEMENT INCHES 16.75	AVG VW MOVEMENT INCHES 7.25	AVG VW MOVEMENT INCHES 1.25	AVG VW MOVEMENT INCHES -4.25
L0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001	0.0003	0.0007
L2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0006	0.0012	0.0022
L3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0012	0.0022	0.0039
L4	0.0000	0.0000	0.0000	0.0000	0.0002	0.0020	0.0036	0.0060
L5	0.0029	0.0031	0.0036	0.0044	0.0058	0.0082	0.0104	0.0135
L6	0.0023	0.0026	0.0033	0.0043	0.0062	0.0095	0.0122	0.0162
L7	0.0039	0.0043	0.0052	0.0065	0.0088	0.0129	0.0162	0.0210
L8	0.0065	0.0070	0.0080	0.0096	0.0124	0.0173	0.0213	0.0268
L9	0.0109	0.0115	0.0128	0.0146	0.0180	0.0238	0.0285	0.0348
L10	0.0154	0.0161	0.0175	0.0197	0.0237	0.0302	0.0356	0.0427
L11	0.0150	0.0157	0.0174	0.0198	0.0243	0.0318	0.0378	0.0457
L12	0.0185	0.0193	0.0211	0.0239	0.0290	0.0374	0.0442	0.0528
L13	0.0292	0.0300	0.0320	0.0350	0.0406	0.0498	0.0572	0.0666
L14	0.0340	0.0349	0.0370	0.0401	0.0461	0.0561	0.0640	0.0740
L15	0.0488	0.0497	0.0519	0.0552	0.0616	0.0721	0.0806	0.0912
L16	0.1290	0.1301	0.1325	0.1361	0.1428	0.1539	0.1628	0.1740
L17	0.4336	0.4348	0.4373	0.4409	0.4477	0.4588	0.4678	0.4794
U1	0.5088	0.5099	0.5125	0.5161	0.5226	0.5335	0.5422	0.5533
U2	0.5248	0.5259	0.5283	0.5317	0.5380	0.5484	0.5568	0.5674
U2A	0.5270	0.5280	0.5304	0.5337	0.5400	0.5503	0.5586	0.5691
U2B	0.5150	0.5160	0.5183	0.5216	0.5278	0.5380	0.5463	0.5567

Table F.16 continued

AVERAGE SEGMENT SHEAR STRESS (4 MINUTE READINGS)

AUC 3 LOAD NUMBER CL.ELEV.	AVG VW SHEAR TSF 48.23	AVG VW SHEAR TSF 39.25	AVG VW SHEAR TSF 31.75	AVG VW SHEAR TSF 25.00	AVG VW SHEAR TSF 16.75	AVG VW SHEAR TSF 7.25	AVG VW SHEAR TSF 1.25	AVG VW SHEAR TSF -4.25
L0	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016
L1	-0.015	-0.009	-0.010	-0.014	-0.011	0.005	0.004	0.081
L2	-0.013	-0.001	0.008	-0.011	0.012	0.026	0.023	0.198
L3	-0.014	0.016	0.021	-0.006	0.028	0.076	0.067	0.277
L4	-0.009	0.034	0.033	0.005	0.056	0.106	0.108	0.368
L5	-0.001	0.053	0.041	0.024	0.079	0.148	0.142	0.453
L6	0.006	0.072	0.067	0.018	0.135	0.163	0.181	0.527
L7	0.014	0.099	0.074	0.038	0.161	0.198	0.226	0.589
L8	0.022	0.110	0.107	0.051	0.197	0.228	0.229	0.682
L9	0.029	0.139	0.132	0.055	0.238	0.253	0.255	0.751
L10	0.034	0.159	0.167	0.067	0.277	0.273	0.316	0.798
L11	0.041	0.187	0.178	0.087	0.316	0.300	0.314	0.880
L12	0.047	0.201	0.223	0.104	0.363	0.308	0.329	0.930
L13	0.049	0.228	0.239	0.116	0.404	0.337	0.342	0.988
L14	0.050	0.240	0.263	0.130	0.447	0.352	0.376	1.024
L15	0.051	0.260	0.271	0.146	0.478	0.375	0.378	1.068
L16	0.059	0.288	0.285	0.137	0.495	0.401	0.428	1.140
L17	0.066	0.305	0.266	0.130	0.484	0.449	0.472	1.194
U1	0.069	0.299	0.259	0.116	0.475	0.417	0.419	1.146
U2	0.065	0.285	0.239	0.117	0.464	0.393	0.392	1.103
U2A	0.064	0.276	0.240	0.114	0.467	0.382	0.402	1.080
U2B	0.063	0.268	0.245	0.111	0.468	0.381	0.384	1.081

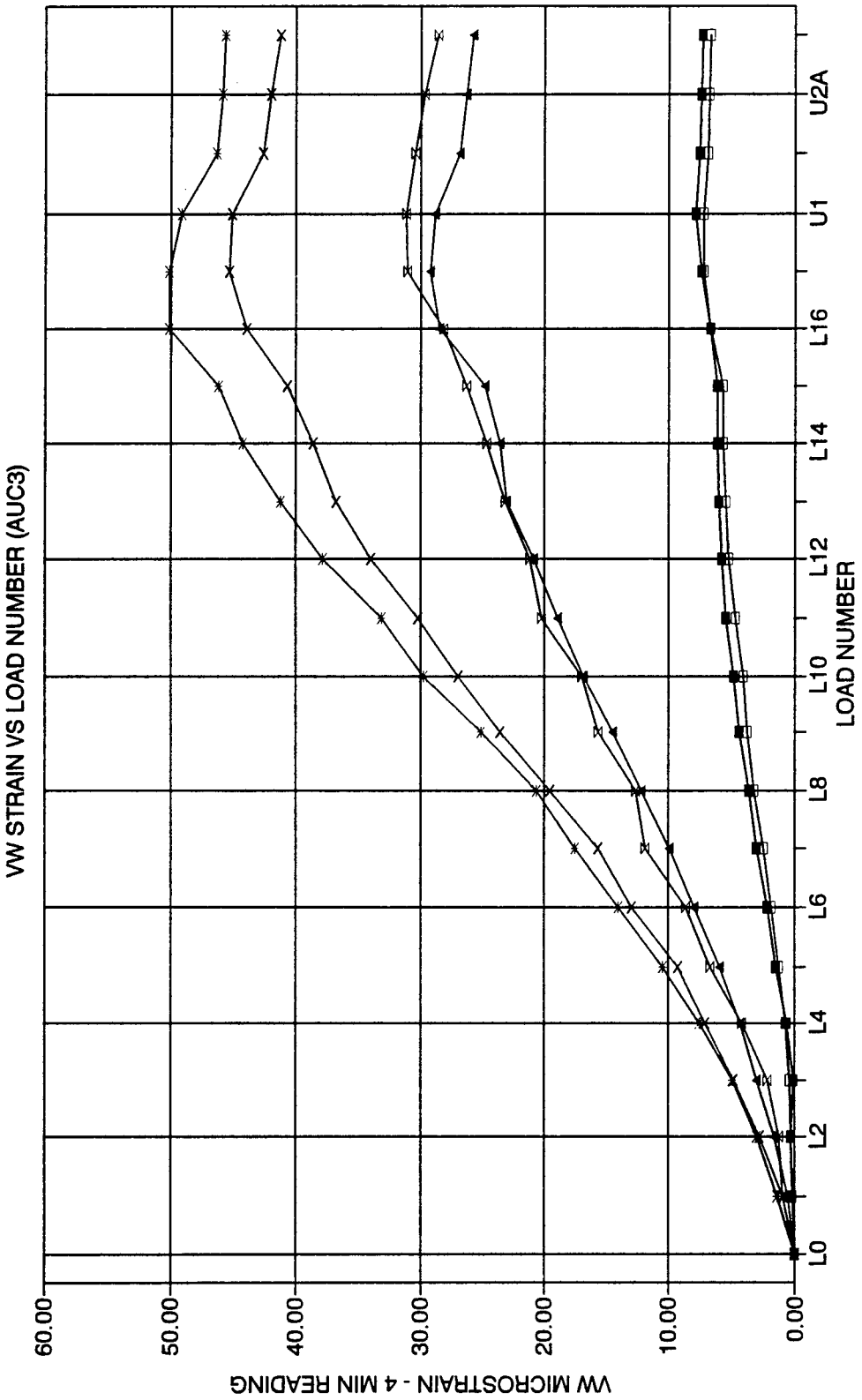

Figure F.77 Strain at Pile Top: Aucilla Load Test 3

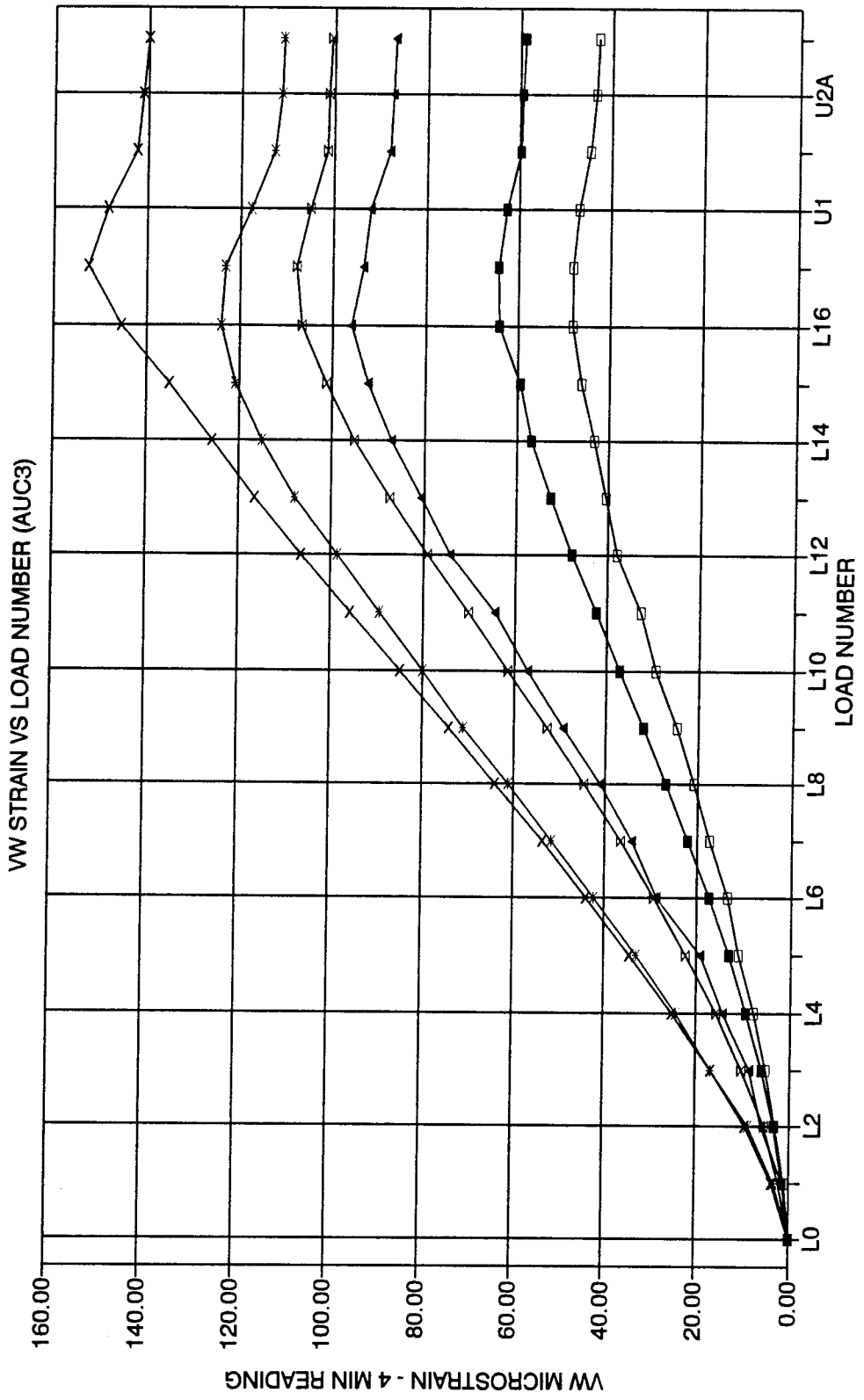

Figure F.78 Strain at Pile Middle: Aucilla Load Test 3

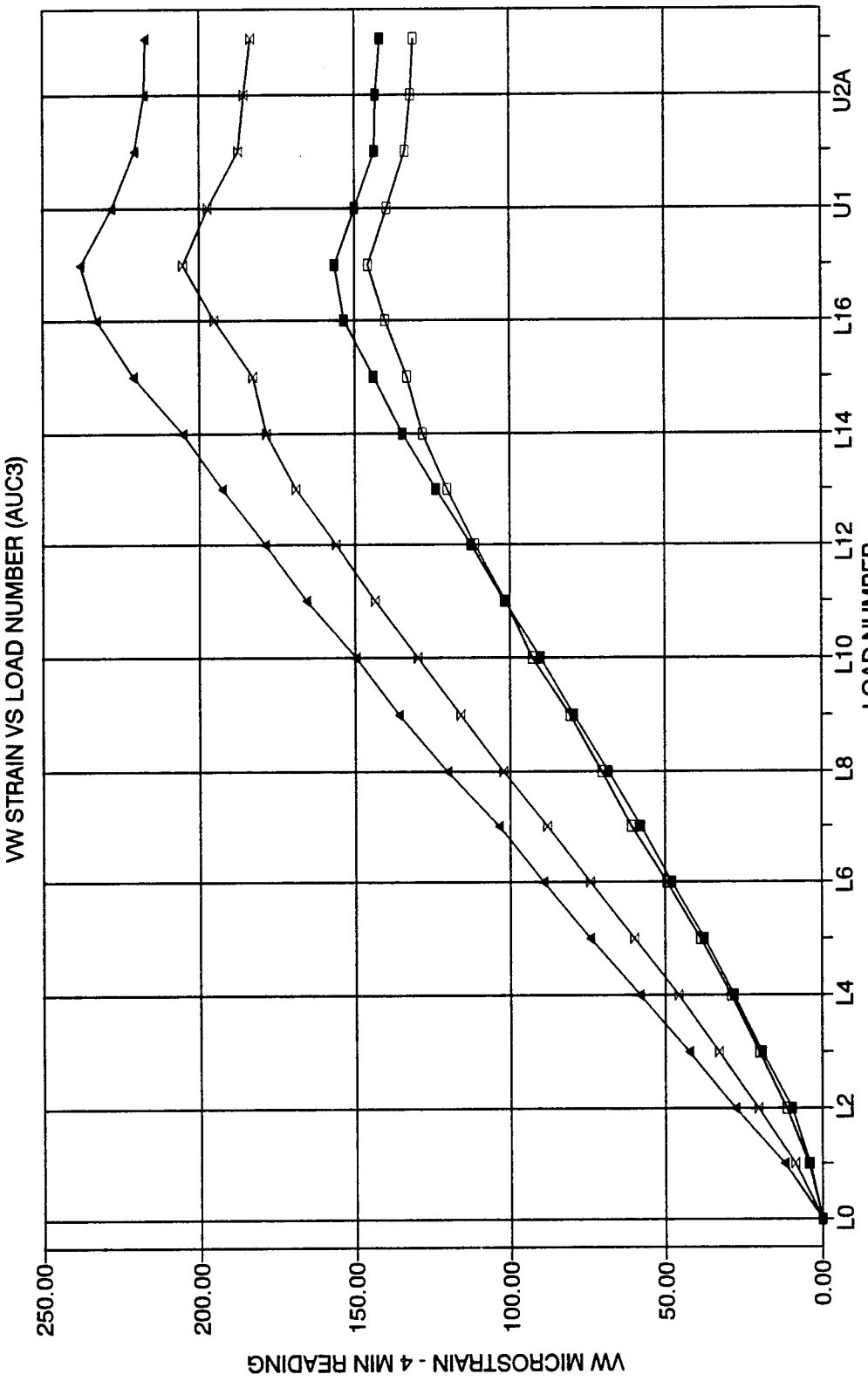

Figure F.79 Strain at Pile Bottom: Aucilla Load Test 3

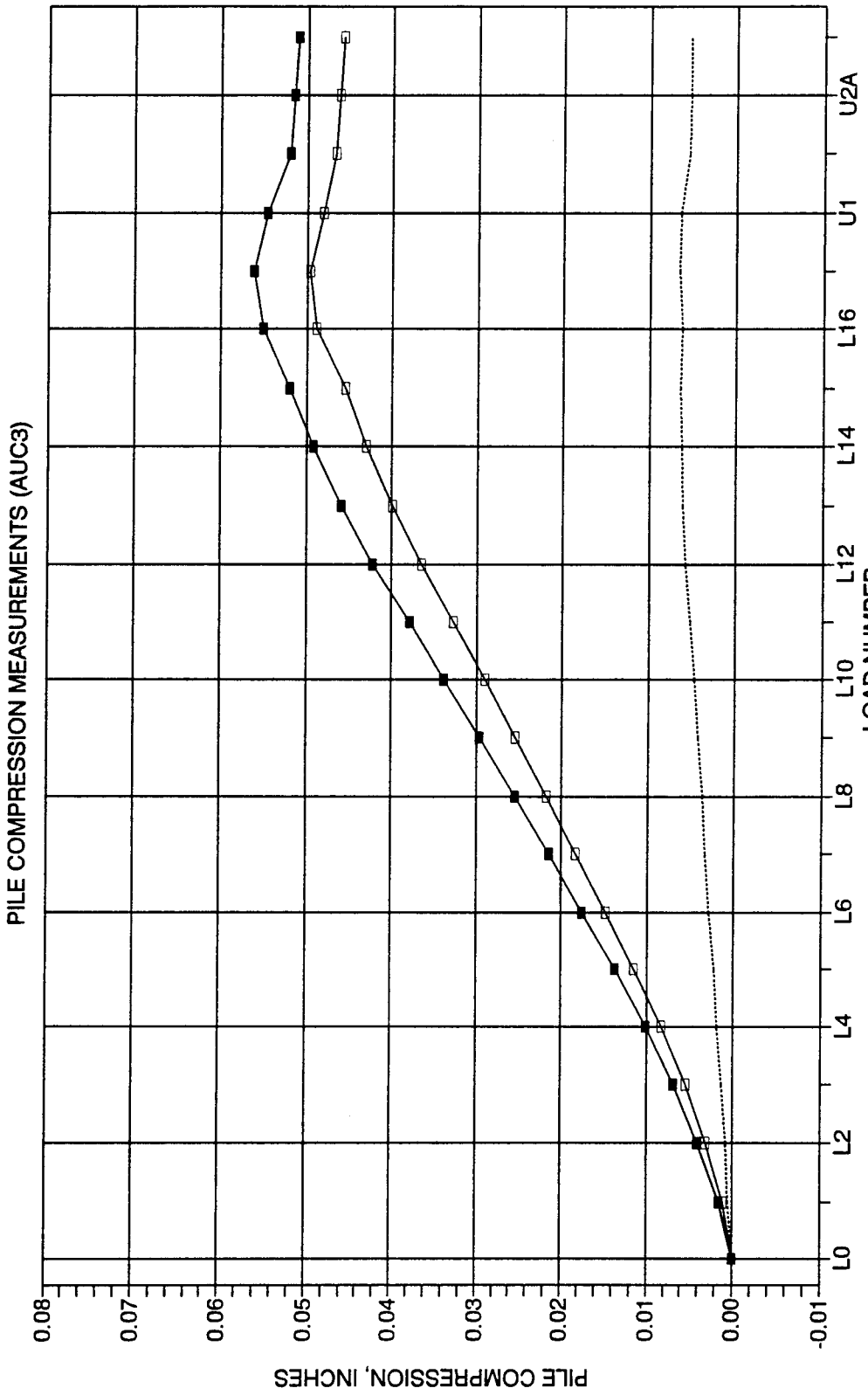

Figure F.80 Pile Compression Measurements: Aucilla Load Test 3

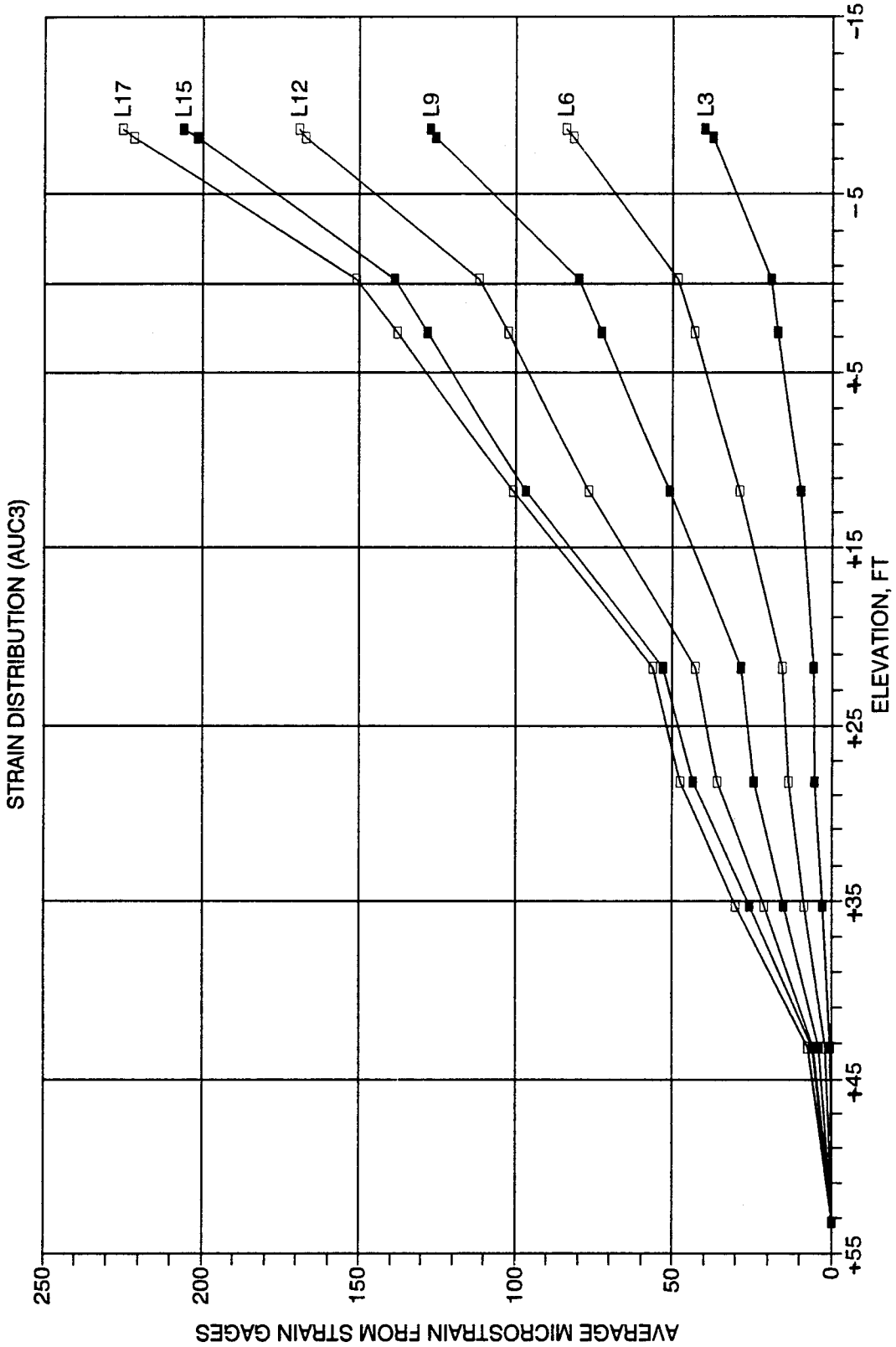

Figure F.81 Pile Strain Distribution: Aucilla Load Test 3

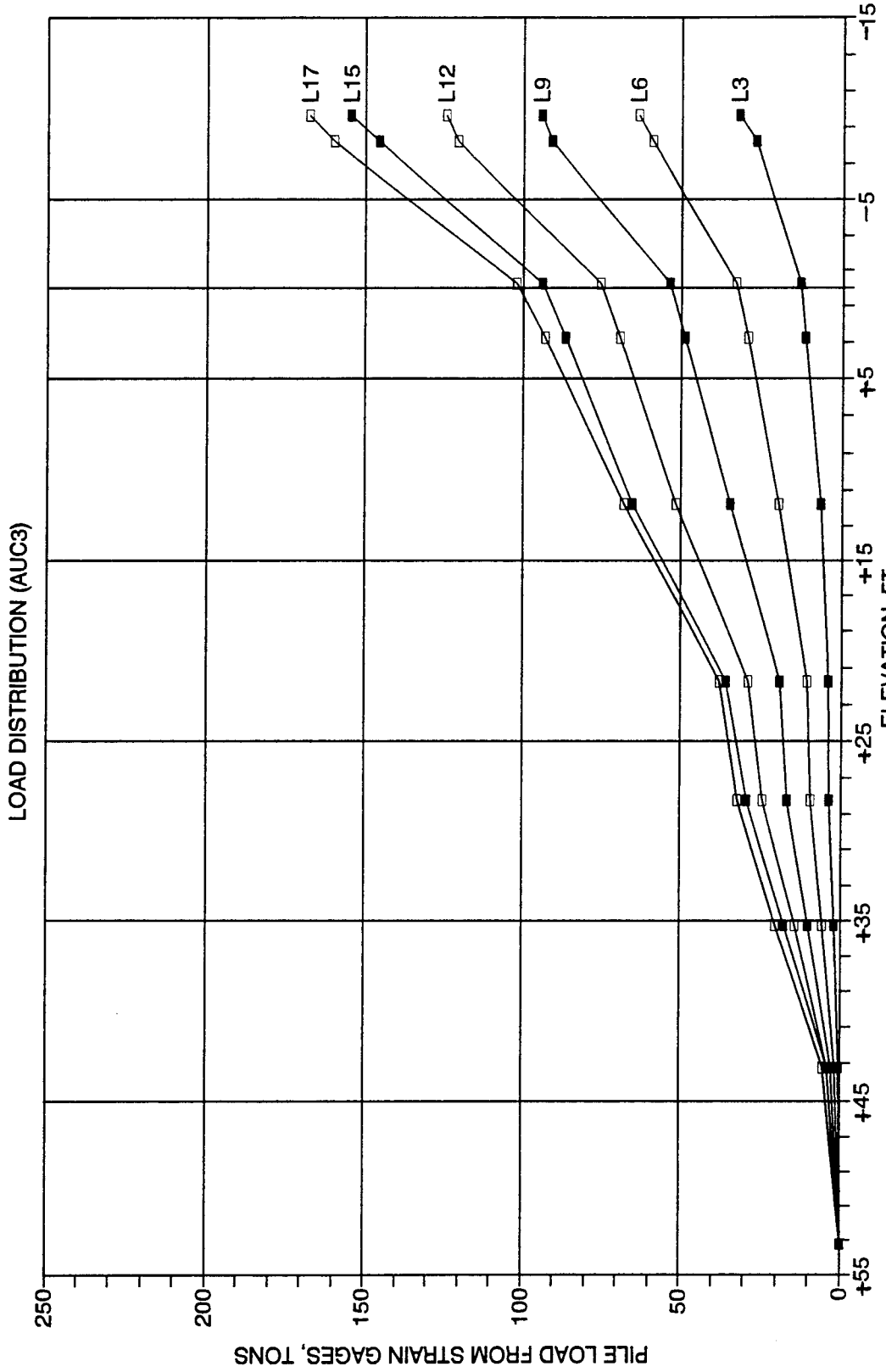

Figure F.82 Pile Load Distribution: Aucilla Load Test 3

Table F.17 Strain Analyses: Aucilla Load Test 4

VIBRATING WIRE INSTRUMENT READINGS - STRAIN

AUC 4 LOAD NUMBER	TIME	VW STRN FREQ^2 KHZ^2 13	VW STRN FREQ^2 KHZ^2 14	VW STRN FREQ^2 KHZ^2 15	VW STRN FREQ^2 KHZ^2 16	VW STRN FREQ^2 KHZ^2 3	VW STRN FREQ^2 KHZ^2 4	VW STRN FREQ^2 KHZ^2 17	VW STRN FREQ^2 KHZ^2 18	VW STRN FREQ^2 KHZ^2 7	VW STRN FREQ KHZ^2 8	VW STRN FREQ KHZ^2 35	VW STRN FREQ KHZ^2 36	VW STRN FREQ KHZ^2 21	VW STRN FREQ KHZ^2 22	VW STRN FREQ KHZ^2 41	VW STRN FREQ KHZ^2 42
1L0	12:12:32	0.74541	0.72814	0.69412	0.70284	0.69830	0.72305	0.73204	0.64653	0.77336	0.63760	0.70096	0.66969	0.65955	0.65058	0.81156	0.73883
1L0	12:29:58	0.74541	0.72811	0.69409	0.70282	0.69827	0.72303	0.73203	0.64651	0.77337	0.63759	0.70093	0.66972	0.65953	0.65057	0.81155	0.73885
1L1	12:36:20	0.74542	0.72810	0.69408	0.70282	0.69824	0.72302	0.73202	0.64650	0.77335	0.63759	0.70093	0.66970	0.65954	0.65058	0.81164	0.73884
1L1	12:37:18	0.74540	0.72810	0.69408	0.70283	0.69824	0.72302	0.73203	0.64652	0.77336	0.63759	0.70091	0.66967	0.65953	0.65056	0.81156	0.73883
1L1	12:39:17	0.74540	0.72811	0.69408	0.70284	0.69823	0.72301	0.73203	0.64651	0.77335	0.63759	0.70094	0.66969	0.65952	0.65058	0.81163	0.73884
1L2	12:41:06	0.74542	0.72810	0.69408	0.70286	0.69828	0.72302	0.73203	0.64651	0.77335	0.63761	0.70094	0.66972	0.65956	0.65058	0.81159	0.73884
1L2	12:42:05	0.74542	0.72811	0.69408	0.70283	0.69823	0.72302	0.73203	0.64651	0.77337	0.63759	0.70092	0.66969	0.65954	0.65058	0.81159	0.73883
1L2	12:44:08	0.74541	0.72811	0.69408	0.70284	0.69825	0.72303	0.73203	0.64653	0.77338	0.63758	0.70094	0.66971	0.65953	0.65059	0.81163	0.73884
1L3	12:46:00	0.74541	0.72810	0.69408	0.70283	0.69826	0.72301	0.73203	0.64651	0.77338	0.63759	0.70092	0.66970	0.65953	0.65059	0.81157	0.73884
1L3	12:47:00	0.74542	0.72812	0.69408	0.70286	0.69827	0.72303	0.73204	0.64653	0.77340	0.63759	0.70094	0.66973	0.65953	0.65058	0.81158	0.73884
1L3	12:49:00	0.74541	0.72812	0.69408	0.70283	0.69829	0.72302	0.73204	0.64652	0.77337	0.63759	0.70095	0.66973	0.65954	0.65059	0.81160	0.73885
1L4	12:51:14	0.74541	0.72810	0.69407	0.70283	0.69825	0.72302	0.73202	0.64650	0.77334	0.63757	0.70090	0.66970	0.65952	0.65056	0.81158	0.73884
1L4	12:52:16	0.74542	0.72810	0.69407	0.70282	0.69822	0.72302	0.73202	0.64650	0.77336	0.63758	0.70090	0.66969	0.65951	0.65058	0.81161	0.73881
1L4	12:54:12	0.74541	0.72811	0.69407	0.70282	0.69823	0.72301	0.73202	0.64649	0.77334	0.63758	0.70088	0.66969	0.65951	0.65057	0.81161	0.73883
1L5	12:56:06	0.74541	0.72810	0.69407	0.70282	0.69820	0.72300	0.73202	0.64649	0.77336	0.63756	0.70089	0.66969	0.65953	0.65056	0.81160	0.73883
1L5	12:57:07	0.74540	0.72810	0.69407	0.70281	0.69819	0.72300	0.73202	0.64649	0.77334	0.63757	0.70089	0.66971	0.65952	0.65057	0.81161	0.73882
1L5	12:59:05	0.74542	0.72810	0.69406	0.70281	0.69820	0.72297	0.73201	0.64649	0.77334	0.63757	0.70090	0.66968	0.65951	0.65056	0.81167	0.73883
1L6	13:01:06	0.74541	0.72810	0.69406	0.70281	0.69820	0.72301	0.73201	0.64649	0.77335	0.63758	0.70089	0.66968	0.65952	0.65057	0.81162	0.73884
1L6	13:02:10	0.74542	0.72810	0.69405	0.70282	0.69820	0.72299	0.73201	0.64649	0.77335	0.63756	0.70088	0.66965	0.65952	0.65057	0.81161	0.73883
1L6	13:04:06	0.74542	0.72809	0.69405	0.70282	0.69821	0.72298	0.73201	0.64649	0.77333	0.63757	0.70088	0.66966	0.65952	0.65057	0.81162	0.73883
1L7	13:05:58	0.74541	0.72810	0.69406	0.70281	0.69821	0.72297	0.73201	0.64647	0.77333	0.63756	0.70084	0.66969	0.65950	0.65057	0.81161	0.73884
1L7	13:06:58	0.74542	0.72810	0.69405	0.70281	0.69821	0.72298	0.73201	0.64648	0.77334	0.63757	0.70085	0.66968	0.65952	0.65057	0.81163	0.73884
1L7	13:09:02	0.74539	0.72809	0.69405	0.70280	0.69821	0.72295	0.73200	0.64647	0.77335	0.63756	0.70084	0.66968	0.65951	0.65057	0.81166	0.73883
1L8	13:11:11	0.74540	0.72809	0.69405	0.70281	0.69818	0.72297	0.73199	0.64647	0.77333	0.63756	0.70084	0.66966	0.65950	0.65056	0.81104	0.73881
1L8	13:12:08	0.74540	0.72810	0.69404	0.70281	0.69820	0.72297	0.73200	0.64647	0.77333	0.63755	0.70083	0.66968	0.65950	0.65057	0.81099	0.73883
1L8	13:14:06	0.74541	0.72810	0.69405	0.70281	0.69820	0.72297	0.73200	0.64647	0.77333	0.63756	0.70086	0.66967	0.65951	0.65056	0.81089	0.73884
1U1	13:18:46	0.74541	0.72811	0.69405	0.70284	0.69821	0.72300	0.73202	0.64650	0.77333	0.63758	0.70089	0.66968	0.65951	0.65059	0.81090	0.73884
1U2	13:22:30	0.74544	0.72813	0.69408	0.70283	0.69824	0.72300	0.73203	0.64651	0.77335	0.63759	0.70092	0.66971	0.65953	0.65058	0.81091	0.73885
2L0	13:28:52	0.74818	0.73099	0.70090	0.71002	0.70852	0.73327	0.74410	0.65739	0.79064	0.65656	0.72875	0.69494	0.69058	0.67763	0.85512	0.77767
2L0	13:34:22	0.74821	0.73103	0.70116	0.71032	0.70844	0.73358	0.74453	0.65761	0.79107	0.65690	0.72919	0.69514	0.69098	0.67771	0.85547	0.77783
2L0	14:00:40	0.74826	0.73102	0.70149	0.71073	0.70878	0.73402	0.74491	0.65760	0.79090	0.65742	0.72953	0.69551	0.69138	0.67803	0.85597	0.77854
2L0	14:03:03	0.74825	0.73099	0.70149	0.71073	0.70878	0.73403	0.74493	0.65761	0.79088	0.65742	0.72954	0.69551	0.69140	0.67805	0.85601	0.77855
2L0	14:08:31	0.74823	0.73101	0.70151	0.71077	0.70883	0.73409	0.74496	0.65759	0.79081	0.65749	0.72958	0.69557	0.69145	0.67808	0.85606	0.77856
2L1	14:11:26	0.74811	0.73102	0.70114	0.71009	0.70853	0.73351	0.74416	0.65740	0.79022	0.65631	0.72784	0.69398	0.68942	0.67596	0.85274	0.77585
2L1	14:12:28	0.74810	0.73102	0.70113	0.71009	0.70853	0.73350	0.74414	0.65739	0.79016	0.65632	0.72780	0.69397	0.68939	0.67594	0.85270	0.77584
2L1	14:14:26	0.74810	0.73098	0.70113	0.71007	0.70851	0.73350	0.74413	0.65738	0.79013	0.65631	0.72777	0.69396	0.68938	0.67593	0.85269	0.77585
2L2	14:16:42	0.74788	0.73095	0.70069	0.70993	0.70779	0.73292	0.74330	0.65629	0.78925	0.65491	0.72555	0.69163	0.68674	0.67337	0.84840	0.77281
2L2	14:17:46	0.74786	0.73095	0.70068	0.70989	0.70776	0.73288	0.74328	0.65624	0.78920	0.65487	0.72542	0.69156	0.68665	0.67333	0.84835	0.77278
2L2	14:19:40	0.74785	0.73095	0.70067	0.70993	0.70773	0.73285	0.74325	0.65621	0.78920	0.65486	0.72537	0.69153	0.68664	0.67330	0.84834	0.77276
2L3	14:22:01	0.74760	0.73084	0.70005	0.70915	0.70686	0.73203	0.74220	0.65588	0.78759	0.65320	0.72279	0.68915	0.68367	0.67043	0.84377	0.76883
2L3	14:22:57	0.74759	0.73083	0.70002	0.70912	0.70684	0.73201	0.74218	0.65587	0.78757	0.65319	0.72279	0.68917	0.68369	0.67041	0.84379	0.76884
2L3	14:24:56	0.74758	0.73082	0.69998	0.70909	0.70684	0.73197	0.74215	0.65586	0.78754	0.65313	0.72275	0.68910	0.68363	0.67036	0.84376	0.76882
2L4	14:27:05	0.74733	0.73053	0.69958	0.70820	0.70617	0.73120	0.74106	0.65500	0.78608	0.65143	0.72017	0.68683	0.68055	0.66773	0.83846	0.76473

Table F.17 continued

VIBRATING WIRE INSTRUMENT READINGS - STRAIN

AUC 4 LOAD NUMBER	TIME	VW STRN FREQ^2 KHZ^2 13	VW STRN FREQ^2 KHZ^2 14	VW STRN FREQ^2 KHZ^2 15	VW STRN FREQ^2 KHZ^2 16	VW STRN FREQ^2 KHZ^2 3	VW STRN FREQ^2 KHZ^2 4	VW STRN FREQ^2 KHZ^2 17	VW STRN FREQ^2 KHZ^2 18	VW STRN FREQ^2 KHZ^2 7	VW STRN FREQ KHZ^2 8	VW STRN FREQ KHZ^2 35	VW STRN FREQ KHZ^2 36	VW STRN FREQ KHZ^2 21	VW STRN FREQ KHZ^2 22	VW STRN FREQ KHZ^2 41	VW STRN FREQ KHZ^2 42
2L4	14:28:05	0.74733	0.73052	0.69956	0.70821	0.70611	0.73119	0.74105	0.65497	0.78605	0.65139	0.72011	0.68683	0.68053	0.66769	0.83843	0.76473
2L4	14:30:02	0.74732	0.73050	0.69955	0.70825	0.70608	0.73117	0.74101	0.65492	0.78600	0.65136	0.72007	0.68679	0.68050	0.66764	0.83846	0.76469
2L5	14:32:03	0.74707	0.73017	0.69902	0.70801	0.70531	0.73014	0.73990	0.65394	0.78435	0.64965	0.71744	0.68423	0.67745	0.66491	0.83407	0.76062
2L5	14:33:03	0.74707	0.73014	0.69899	0.70796	0.70527	0.73009	0.73985	0.65392	0.78430	0.64960	0.71740	0.68423	0.67743	0.66484	0.83395	0.76051
2L5	14:35:00	0.74705	0.73013	0.69896	0.70791	0.70521	0.73003	0.73978	0.65387	0.78423	0.64952	0.71725	0.68422	0.67740	0.66480	0.83398	0.76051
2L6	14:37:18	0.74683	0.72981	0.69829	0.70711	0.70431	0.72925	0.73863	0.65282	0.78265	0.64766	0.71439	0.68183	0.67450	0.66215	0.82997	0.75650
2L6	14:38:16	0.74685	0.72979	0.69829	0.70707	0.70422	0.72921	0.73858	0.65278	0.78258	0.64758	0.71450	0.68175	0.67441	0.66198	0.83000	0.75638
2L6	14:40:16	0.74685	0.72975	0.69828	0.70700	0.70412	0.72916	0.73854	0.65274	0.78253	0.64752	0.71457	0.68170	0.67441	0.66197	0.82999	0.75644
2L7	14:42:20	0.74682	0.72965	0.69768	0.70683	0.70350	0.72834	0.73745	0.65205	0.78092	0.64578	0.71156	0.67926	0.67136	0.65942	0.82522	0.75249
2L7	14:43:18	0.74681	0.72965	0.69765	0.70679	0.70345	0.72823	0.73741	0.65200	0.78085	0.64572	0.71149	0.67925	0.67129	0.65934	0.82518	0.75246
2L7	14:45:16	0.74679	0.72963	0.69762	0.70673	0.70342	0.72812	0.73735	0.65192	0.78078	0.64563	0.71145	0.67920	0.67125	0.65928	0.82518	0.75240
2L8	14:47:06	0.74641	0.72915	0.69704	0.70575	0.70248	0.72727	0.73615	0.65097	0.77912	0.64378	0.70894	0.67685	0.66835	0.65677	0.82100	0.74873
2L8	14:48:09	0.74640	0.72915	0.69701	0.70573	0.70254	0.72724	0.73608	0.65092	0.77905	0.64374	0.70886	0.67681	0.66831	0.65675	0.82098	0.74871
2L8	14:50:06	0.74638	0.72916	0.69697	0.70568	0.70258	0.72718	0.73598	0.65088	0.77898	0.64369	0.70881	0.67675	0.66822	0.65664	0.82091	0.74852
2L9	14:52:08	0.74606	0.72915	0.69639	0.70515	0.70161	0.72622	0.73489	0.65005	0.77743	0.64199	0.70647	0.67445	0.66530	0.65420	0.81678	0.74526
2L9	14:53:02	0.74605	0.72918	0.69636	0.70510	0.70156	0.72617	0.73482	0.65002	0.77733	0.64191	0.70640	0.67438	0.66514	0.65417	0.81673	0.74522
2L9	14:55:01	0.74604	0.72916	0.69630	0.70523	0.70151	0.72610	0.73476	0.65000	0.77727	0.64180	0.70632	0.67432	0.66511	0.65413	0.81668	0.74513
2L10	14:57:00	0.74577	0.72885	0.69574	0.70446	0.70083	0.72540	0.73381	0.64904	0.77575	0.64005	0.70385	0.67181	0.66241	0.65175	0.81253	0.74165
2L10	14:57:59	0.74577	0.72883	0.69571	0.70441	0.70079	0.72539	0.73376	0.64901	0.77571	0.63996	0.70378	0.67175	0.66236	0.65166	0.81248	0.74157
2L10	14:59:58	0.74575	0.72882	0.69568	0.70437	0.70074	0.72527	0.73370	0.64898	0.77561	0.63995	0.70372	0.67185	0.66235	0.65169	0.81252	0.74162
2L11	15:02:09	0.74558	0.72861	0.69517	0.70409	0.69990	0.72441	0.73259	0.64805	0.77397	0.63824	0.70129	0.66963	0.65945	0.64926	0.80852	0.73825
2L11	15:03:10	0.74556	0.72862	0.69515	0.70404	0.69988	0.72432	0.73251	0.64800	0.77392	0.63812	0.70125	0.66950	0.65935	0.64926	0.80857	0.73830
2L11	15:05:08	0.74557	0.72862	0.69512	0.70397	0.69986	0.72427	0.73245	0.64795	0.77385	0.63802	0.70120	0.66940	0.65924	0.64921	0.80853	0.73824
2L12	15:07:38	0.74547	0.72859	0.69458	0.70321	0.69906	0.72329	0.73148	0.64720	0.77235	0.63633	0.69863	0.66747	0.65648	0.64701	0.80479	0.73525
2L12	15:08:48	0.74550	0.72858	0.69454	0.70316	0.69899	0.72326	0.73132	0.64715	0.77218	0.63624	0.69863	0.66739	0.65646	0.64696	0.80478	0.73525
2L12	15:10:38	0.74550	0.72860	0.69453	0.70315	0.69895	0.72325	0.73111	0.64712	0.77209	0.63617	0.69856	0.66731	0.65641	0.64694	0.80476	0.73522
2L13	15:12:46	0.74543	0.72856	0.69401	0.70238	0.69815	0.72200	0.73012	0.64597	0.77018	0.63396	0.69544	0.66435	0.65297	0.64386	0.80084	0.73137
2L13	15:13:47	0.74544	0.72860	0.69402	0.70235	0.69812	0.72200	0.73006	0.64591	0.76996	0.63377	0.69526	0.66420	0.65284	0.64368	0.80084	0.73119
2L13	15:15:59	0.74546	0.72862	0.69405	0.70237	0.69809	0.72197	0.72996	0.64586	0.76976	0.63350	0.69513	0.66419	0.65283	0.64368	0.80079	0.73134
2L14	15:17:58	0.74539	0.72863	0.69354	0.70244	0.69694	0.72093	0.72846	0.64479	0.76747	0.63080	0.69148	0.66119	0.64913	0.64030	0.79641	0.72694
2L14	15:18:54	0.74540	0.72863	0.69354	0.70244	0.69691	0.72089	0.72840	0.64476	0.76729	0.63059	0.69077	0.66106	0.64904	0.64029	0.79635	0.72704
2L14	15:20:52	0.74541	0.72863	0.69356	0.70253	0.69687	0.72084	0.72832	0.64473	0.76710	0.63052	0.69130	0.66092	0.64885	0.64018	0.79630	0.72705
2L15	15:22:57	0.74539	0.72863	0.69316	0.70177	0.69583	0.71989	0.72656	0.64337	0.76438	0.62720	0.68668	0.65767	0.64499	0.63653	0.79212	0.72250
2L15	15:23:56	0.74540	0.72865	0.69319	0.70186	0.69588	0.71981	0.72659	0.64338	0.76431	0.62699	0.68725	0.65746	0.64488	0.63641	0.79214	0.72247
2L15	15:25:56	0.74540	0.72864	0.69325	0.70200	0.69598	0.71980	0.72654	0.64340	0.76418	0.62681	0.68728	0.65742	0.64481	0.63635	0.79212	0.72249
2L16	15:28:24	0.74535	0.72862	0.69280	0.70150	0.69529	0.71879	0.72492	0.64239	0.76168	0.62411	0.68372	0.65443	0.64139	0.63311	0.78812	0.71868
2L16	15:29:26	0.74536	0.72863	0.69284	0.70164	0.69549	0.71881	0.72490	0.64245	0.76155	0.62395	0.68343	0.65425	0.64122	0.63302	0.78794	0.71833
2L16	15:31:23	0.74539	0.72863	0.69288	0.70181	0.69564	0.71873	0.72477	0.64248	0.76120	0.62344	0.68283	0.65406	0.64104	0.63286	0.78781	0.71833
2L17	15:33:24	0.74537	0.72859	0.69238	0.70136	0.69468	0.71751	0.72316	0.64114	0.75902	0.62106	0.67966	0.65126	0.63774	0.62970	0.78404	0.71440
2L17	15:34:31	0.74534	0.72859	0.69231	0.70137	0.69476	0.71747	0.72314	0.64110	0.75896	0.62110	0.67966	0.65134	0.63769	0.62972	0.78398	0.71427
2L17	15:36:18	0.74534	0.72857	0.69224	0.70134	0.69476	0.71738	0.72309	0.64110	0.75907	0.62121	0.67978	0.65169	0.63777	0.62969	0.78406	0.71404
2L18	15:38:43	0.74533	0.72851	0.69182	0.70117	0.69466	0.71735	0.72296	0.64097	0.75872	0.62082	0.67887	0.65125	0.63729	0.62942	0.78311	0.71327
2L18	15:39:41	0.74538	0.72850	0.69185	0.70127	0.69483	0.71764	0.72302	0.64101	0.75890	0.62086	0.67885	0.65139	0.63703	0.62936	0.78311	0.71300

Table F.17 continued

VIBRATING WIRE INSTRUMENT READINGS - STRAIN

AUC 4 LOAD NUMBER	TIME	VW STRN FREQ^2 KHZ^2 13	VW STRN FREQ^2 KHZ^2 14	VW STRN FREQ^2 KHZ^2 15	VW STRN FREQ^2 KHZ^2 16	VW STRN FREQ^2 KHZ^2 3	VW STRN FREQ^2 KHZ^2 4	VW STRN FREQ^2 KHZ^2 17	VW STRN FREQ^2 KHZ^2 18	VW STRN FREQ^2 KHZ^2 7	VW STRN FREQ KHZ^2 8	VW STRN FREQ KHZ^2 35	VW STRN FREQ KHZ^2 36	VW STRN FREQ KHZ^2 21	VW STRN FREQ KHZ^2 22	VW STRN FREQ KHZ^2 41	VW STRN FREQ KHZ^2 42
2L18	15:41:40	0.74530	0.72846	0.69178	0.70123	0.69486	0.71766	0.72310	0.64120	0.75941	0.62121	0.67883	0.65162	0.63733	0.62937	0.78341	0.71310
2L19	15:43:31	0.74530	0.72840	0.69147	0.70103	0.69450	0.71699	0.72283	0.64094	0.75884	0.62074	0.67832	0.65135	0.63674	0.62848	0.78261	0.71186
2L19	15:44:35	0.74526	0.72835	0.69140	0.70102	0.69444	0.71687	0.72259	0.64092	0.75905	0.62072	0.67822	0.65157	0.63668	0.62872	0.78259	0.71219
2L19	15:46:31	0.74513	0.72834	0.69136	0.70098	0.69461	0.71695	0.72273	0.64102	0.75936	0.62080	0.67823	0.65200	0.63704	0.62874	0.78282	0.71208
2L19A	15:50:31	0.74500	0.72831	0.69118	0.70054	0.69431	0.71677	0.72250	0.64102	0.75955	0.62068	0.67769	0.65249	0.63726	0.62871	0.78333	0.71200
2U1	15:55:26	0.74509	0.72848	0.69208	0.70138	0.69555	0.71810	0.72401	0.64248	0.76176	0.62293	0.68089	0.65600	0.64174	0.63271	0.78956	0.71800
2U2	16:00:18	0.74535	0.72883	0.69300	0.70257	0.69703	0.71958	0.72583	0.64398	0.76434	0.62575	0.68645	0.66011	0.64740	0.63744	0.79782	0.72599
2U3	16:04:48	0.74591	0.72922	0.69417	0.70406	0.69894	0.72152	0.72818	0.64596	0.76775	0.62977	0.69272	0.66540	0.65468	0.64343	0.80710	0.73497
2U4	16:09:24	0.74661	0.72990	0.69544	0.70519	0.70062	0.72327	0.73026	0.64769	0.77087	0.63318	0.69780	0.66989	0.66046	0.64846	0.81481	0.74207
2U5	16:13:13	0.74706	0.73084	0.69710	0.70699	0.70289	0.72576	0.73331	0.65007	0.77520	0.63799	0.70448	0.67581	0.66787	0.65513	0.82481	0.75135
2U6	16:17:12	0.74766	0.73118	0.69876	0.70824	0.70512	0.72828	0.73629	0.65267	0.77931	0.64273	0.71089	0.68134	0.67449	0.66121	0.83427	0.75971
2U7	16:21:17	0.74839	0.73225	0.70085	0.71087	0.70819	0.73137	0.74013	0.65589	0.78487	0.64860	0.71848	0.68832	0.68213	0.66876	0.84572	0.76941
2U8	16:26:06	0.74877	0.73279	0.70298	0.71309	0.71110	0.73460	0.74393	0.65884	0.78970	0.65458	0.72585	0.69491	0.68938	0.67597	0.85532	0.77720
2U8A	16:28:07	0.74877	0.73275	0.70303	0.71309	0.71111	0.73463	0.74397	0.65883	0.78980	0.65469	0.72585	0.69498	0.68946	0.67599	0.85541	0.77724
2U8A	16:45:00	0.74872	0.73272	0.70313	0.71313	0.71110	0.73480	0.74421	0.65883	0.79027	0.65494	0.72612	0.69514	0.68971	0.67626	0.85560	0.77746
2U8A	17:00:00	0.74871	0.73275	0.70318	0.71309	0.71112	0.73500	0.74437	0.65886	0.79059	0.65511	0.72620	0.69525	0.68981	0.67636	0.85586	0.77762
2U8A	17:15:00	0.74869	0.73279	0.70321	0.71309	0.71112	0.73512	0.74447	0.65890	0.79073	0.65522	0.72629	0.69534	0.68984	0.67641	0.85604	0.77771
2U8A	17:30:00	0.74867	0.73275	0.70320	0.71308	0.71111	0.73516	0.74451	0.65892	0.79081	0.65524	0.72648	0.69534	0.68988	0.67645	0.85612	0.77774

Table F.17 continued

VIBRATING WIRE INSTRUMENT READINGS - TEMPERATURE

AUC 4 LOAD NUMBER	TIME	VW STRN TEMP DEG C 13	VW STRN TEMP DEG C 14	VW STRN TEMP DEG C 15	VW STRN TEMP DEG C 16	VW STRN TEMP DEG C 3	VW STRN TEMP DEG C 4	VW STRN TEMP DEG C 17	VW STRN TEMP DEG C 18	VW STRN TEMP DEG C 7	VW STRN TEMP DEG C 8	VW STRN TEMP DEG C 35	VW STRN TEMP DEG C 36	VW STRN TEMP DEG C 21	VW STRN TEMP DEG C 22	VW STRN TEMP DEG C 41	VW STRN TEMP DEG C 42
1L0	12:12:32	20.649	20.435	19.403	19.554	19.917	20.160	20.619	20.527	20.557	20.496	19.735	20.466	20.374	19.765	20.221	20.374
1L0	12:29:58	20.649	20.435	19.403	19.523	19.917	20.160	20.619	20.496	20.557	20.496	19.705	20.496	20.374	19.735	20.252	20.374
1L1	12:36:20	20.680	20.435	19.403	19.523	19.917	20.160	20.619	20.527	20.557	20.496	19.705	20.466	20.374	19.735	20.221	20.374
1L1	12:37:18	20.649	20.466	19.403	19.523	19.917	20.160	20.619	20.527	20.588	20.496	19.705	20.466	20.404	19.735	20.221	20.374
1L1	12:39:17	20.649	20.435	19.403	19.523	19.917	20.160	20.619	20.527	20.588	20.496	19.705	20.466	20.374	19.765	20.221	20.404
1L2	12:41:06	20.649	20.466	19.403	19.522	19.946	20.159	20.617	20.525	20.586	20.494	19.703	20.464	20.372	19.733	20.219	20.372
1L2	12:42:05	20.647	20.464	19.401	19.522	19.946	20.159	20.617	20.525	20.555	20.494	19.703	20.464	20.372	19.733	20.219	20.402
1L2	12:44:08	20.646	20.462	19.399	19.520	19.944	20.157	20.615	20.523	20.554	20.493	19.701	20.493	20.370	19.762	20.218	20.401
1L3	12:46:00	20.646	20.462	19.399	19.550	19.914	20.187	20.615	20.523	20.554	20.523	19.701	20.462	20.370	19.762	20.218	20.370
1L3	12:47:00	20.646	20.462	19.398	19.519	19.943	20.156	20.614	20.522	20.553	20.522	19.700	20.461	20.400	19.730	20.217	20.369
1L3	12:49:00	20.645	20.461	19.398	19.519	19.943	20.156	20.614	20.522	20.553	20.491	19.700	20.461	20.369	19.761	20.247	20.400
1L4	12:51:14	20.645	20.462	19.429	19.520	19.944	20.187	20.645	20.523	20.584	20.523	19.701	20.462	20.370	19.731	20.248	20.370
1L4	12:52:16	20.645	20.462	19.429	19.520	19.944	20.157	20.645	20.554	20.554	20.523	19.731	20.462	20.370	19.762	20.217	20.401
1L4	12:54:12	20.644	20.430	19.398	19.519	19.942	20.155	20.614	20.522	20.552	20.522	19.700	20.461	20.369	19.730	20.216	20.369
1L5	12:56:06	20.643	20.460	19.397	19.548	19.941	20.154	20.613	20.521	20.582	20.490	19.699	20.490	20.368	19.729	20.246	20.368
1L5	12:57:07	20.643	20.429	19.397	19.518	19.941	20.154	20.613	20.521	20.551	20.490	19.699	20.460	20.368	19.729	20.215	20.368
1L5	12:59:05	20.642	20.459	19.396	19.517	19.941	20.154	20.612	20.520	20.551	20.489	19.698	20.459	20.367	19.729	20.245	20.367
1L6	13:01:06	20.642	20.459	19.396	19.517	19.910	20.154	20.612	20.520	20.551	20.489	19.698	20.459	20.367	19.729	20.276	20.367
1L6	13:02:10	20.644	20.460	19.428	19.518	19.942	20.155	20.613	20.521	20.552	20.491	19.700	20.460	20.368	19.730	20.246	20.368
1L6	13:04:06	20.644	20.460	19.398	19.518	19.972	20.155	20.613	20.521	20.552	20.491	19.700	20.460	20.368	19.730	20.246	20.368
1L7	13:05:58	20.674	20.459	19.397	19.517	19.941	20.154	20.612	20.520	20.551	20.490	19.729	20.490	20.398	19.729	20.246	20.398
1L7	13:06:58	20.643	20.459	19.397	19.517	19.941	20.185	20.643	20.520	20.582	20.520	19.699	20.459	20.398	19.729	20.246	20.368
1L7	13:09:02	20.642	20.459	19.396	19.547	19.971	20.153	20.612	20.520	20.581	20.489	19.728	20.459	20.367	19.728	20.214	20.367
1L8	13:11:11	20.642	20.458	19.426	19.516	19.910	20.153	20.611	20.519	20.550	20.489	19.697	20.489	20.366	19.728	20.275	20.366
1L8	13:12:08	20.642	20.458	19.426	19.516	19.940	20.153	20.611	20.519	20.550	20.519	19.728	20.458	20.366	19.728	20.275	20.397
1L8	13:14:06	20.641	20.458	19.395	19.546	19.940	20.152	20.611	20.519	20.580	20.488	19.727	20.458	20.366	19.727	20.244	20.396
1U1	13:18:46	20.639	20.455	19.393	19.513	19.968	20.150	20.608	20.516	20.578	20.486	19.695	20.455	20.364	19.725	20.241	20.364
1U2	13:22:30	20.637	20.453	19.391	19.542	19.935	20.148	20.606	20.515	20.545	20.484	19.693	20.484	20.362	19.723	20.240	20.362
2L0	13:28:52	20.669	20.454	19.392	19.543	19.936	20.149	20.607	20.546	20.546	20.485	19.694	20.454	20.363	19.724	20.210	20.363
2L0	13:34:22	20.636	20.453	19.390	19.511	19.905	20.148	20.636	20.514	20.575	20.483	19.692	20.483	20.392	19.723	20.209	20.392
2L0	14:00:40	20.640	20.456	19.394	19.514	19.908	20.151	20.640	20.518	20.548	20.518	19.696	20.456	20.365	19.726	20.212	20.365
2L0	14:03:03	20.671	20.426	19.424	19.514	19.938	20.151	20.609	20.548	20.548	20.487	19.696	20.456	20.365	19.726	20.212	20.365
2L0	14:08:31	20.642	20.458	19.395	19.516	19.940	20.153	20.642	20.550	20.580	20.489	19.697	20.489	20.366	19.728	20.214	20.366
2L1	14:11:26	20.672	20.458	19.395	19.516	19.940	20.152	20.611	20.549	20.549	20.488	19.697	20.458	20.366	19.727	20.213	20.366
2L1	14:12:28	20.641	20.457	19.395	19.515	19.939	20.152	20.610	20.518	20.580	20.518	19.697	20.488	20.365	19.727	20.213	20.365
2L1	14:14:26	20.641	20.457	19.395	19.515	19.909	20.152	20.610	20.518	20.549	20.488	19.697	20.457	20.396	19.727	20.213	20.365
2L2	14:16:42	20.643	20.459	19.396	19.517	19.941	20.154	20.643	20.520	20.551	20.489	19.698	20.459	20.398	19.729	20.215	20.367
2L2	14:17:46	20.643	20.459	19.396	19.517	19.941	20.154	20.643	20.519	20.550	20.519	19.698	20.458	20.367	19.728	20.214	20.367
2L2	14:19:40	20.642	20.458	19.396	19.516	19.940	20.153	20.611	20.550	20.550	20.519	19.698	20.458	20.367	19.728	20.214	20.367
2L3	14:22:01	20.641	20.458	19.395	19.516	19.909	20.183	20.611	20.519	20.549	20.488	19.697	20.488	20.366	19.728	20.214	20.366
2L3	14:22:57	20.672	20.458	19.425	19.516	19.940	20.153	20.611	20.519	20.580	20.488	19.697	20.458	20.366	19.728	20.214	20.366
2L3	14:24:56	20.641	20.427	19.395	19.546	19.909	20.152	20.610	20.519	20.549	20.519	19.727	20.488	20.366	19.727	20.244	20.366
2L4	14:27:05	20.641	20.457	19.394	19.515	19.939	20.152	20.610	20.518	20.549	20.488	19.727	20.457	20.365	19.727	20.213	20.365

Table F.17 continued

VIBRATING WIRE INSTRUMENT READINGS - TEMPERATURE

AUC 4 LOAD NUMBER	TIME	VW STRN TEMP DEG C 13	VW STRN TEMP DEG C 14	VW STRN TEMP DEG C 15	VW STRN TEMP DEG C 16	VW STRN TEMP DEG C 3	VW STRN TEMP DEG C 4	VW STRN TEMP DEG C 17	VW STRN TEMP DEG C 18	VW STRN TEMP DEG C 7	VW STRN TEMP DEG C 8	VW STRN TEMP DEG C 35	VW STRN TEMP DEG C 36	VW STRN TEMP DEG C 21	VW STRN TEMP DEG C 22	VW STRN TEMP DEG C 41	VW STRN TEMP DEG C 42
2L4	14:28:05	20.672	20.457	19.394	19.515	19.909	20.152	20.641	20.518	20.579	20.488	19.696	20.457	20.365	19.727	20.243	20.396
2L4	14:30:02	20.640	20.457	19.424	19.515	19.939	20.152	20.610	20.518	20.549	20.518	19.726	20.457	20.365	19.726	20.213	20.365
2L5	14:32:03	20.640	20.457	19.394	19.515	19.939	20.152	20.640	20.518	20.549	20.487	19.696	20.457	20.396	19.757	20.213	20.365
2L5	14:33:03	20.638	20.455	19.392	19.513	19.906	20.149	20.638	20.516	20.577	20.485	19.694	20.485	20.363	19.724	20.210	20.363
2L5	14:35:00	20.669	20.424	19.392	19.513	19.937	20.180	20.608	20.516	20.577	20.485	19.694	20.485	20.393	19.755	20.210	20.363
2L6	14:37:18	20.638	20.424	19.392	19.513	19.937	20.150	20.608	20.547	20.547	20.485	19.694	20.455	20.363	19.725	20.241	20.363
2L6	14:38:16	20.638	20.455	19.392	19.513	19.937	20.150	20.608	20.547	20.547	20.486	19.725	20.455	20.363	19.725	20.211	20.363
2L6	14:40:16	20.639	20.455	19.393	19.513	19.937	20.150	20.608	20.516	20.547	20.486	19.694	20.455	20.363	19.725	20.211	20.394
2L7	14:42:20	20.639	20.455	19.393	19.513	19.967	20.150	20.608	20.516	20.547	20.516	19.695	20.486	20.364	19.725	20.211	20.364
2L7	14:43:18	20.669	20.455	19.393	19.513	19.937	20.150	20.608	20.516	20.578	20.486	19.725	20.486	20.364	19.725	20.241	20.364
2L7	14:45:16	20.670	20.455	19.393	19.513	19.968	20.150	20.608	20.516	20.547	20.486	19.695	20.455	20.394	19.755	20.211	20.364
2L8	14:47:06	20.639	20.455	19.393	19.513	19.937	20.150	20.608	20.516	20.547	20.486	19.695	20.455	20.364	19.725	20.242	20.364
2L8	14:48:09	20.639	20.455	19.423	19.513	19.937	20.150	20.608	20.547	20.547	20.486	19.695	20.486	20.364	19.725	20.211	20.364
2L8	14:50:06	20.670	20.455	19.393	19.513	19.937	20.150	20.608	20.547	20.547	20.486	19.695	20.486	20.364	19.725	20.211	20.394
2L9	14:52:08	20.639	20.455	19.393	19.514	19.937	20.150	20.608	20.517	20.547	20.486	19.695	20.455	20.364	19.725	20.211	20.394
2L9	14:53:02	20.639	20.455	19.423	19.514	19.937	20.150	20.609	20.517	20.547	20.486	19.695	20.456	20.364	19.725	20.242	20.394
2L9	14:55:01	20.639	20.456	19.393	19.514	19.968	20.150	20.609	20.517	20.547	20.486	19.695	20.456	20.364	19.725	20.211	20.364
2L10	14:57:00	20.639	20.455	19.393	19.514	19.968	20.150	20.609	20.517	20.547	20.517	19.695	20.486	20.364	19.756	20.211	20.364
2L10	14:57:59	20.639	20.455	19.423	19.514	19.938	20.150	20.609	20.517	20.547	20.486	19.725	20.486	20.364	19.725	20.211	20.364
2L10	14:59:58	20.639	20.455	19.393	19.514	19.938	20.151	20.609	20.517	20.547	20.486	19.695	20.455	20.394	19.725	20.211	20.364
2L11	15:02:09	20.637	20.454	19.391	19.512	19.936	20.149	20.607	20.515	20.545	20.515	19.693	20.454	20.392	19.754	20.209	20.392
2L11	15:03:10	20.668	20.454	19.421	19.542	19.936	20.149	20.607	20.515	20.545	20.484	19.693	20.454	20.392	19.723	20.209	20.362
2L11	15:05:08	20.636	20.452	19.390	19.510	19.964	20.147	20.605	20.513	20.544	20.513	19.692	20.452	20.360	19.722	20.238	20.391
2L12	15:07:38	20.636	20.452	19.390	19.510	19.934	20.147	20.605	20.514	20.545	20.483	19.723	20.453	20.361	19.723	20.239	20.361
2L12	15:08:48	20.636	20.483	19.420	19.511	19.935	20.178	20.606	20.545	20.545	20.514	19.692	20.483	20.361	19.723	20.239	20.361
2L12	15:10:38	20.636	20.453	19.390	19.511	19.965	20.148	20.606	20.515	20.576	20.484	19.693	20.453	20.392	19.723	20.240	20.362
2L13	15:12:46	20.637	20.453	19.421	19.542	19.935	20.148	20.606	20.515	20.545	20.484	19.693	20.453	20.362	19.723	20.240	20.362
2L13	15:13:47	20.636	20.452	19.389	19.510	19.934	20.147	20.605	20.513	20.544	20.482	19.722	20.452	20.391	19.722	20.238	20.360
2L13	15:15:59	20.666	20.452	19.389	19.510	19.934	20.147	20.605	20.513	20.574	20.482	19.722	20.482	20.360	19.722	20.208	20.360
2L14	15:17:58	20.665	20.451	19.388	19.539	19.933	20.146	20.604	20.512	20.573	20.481	19.721	20.481	20.359	19.721	20.237	20.389
2L14	15:18:54	20.634	20.451	19.388	19.509	19.963	20.146	20.604	20.512	20.542	20.481	19.690	20.481	20.359	19.721	20.237	20.389
2L14	15:20:52	20.635	20.452	19.389	19.510	19.964	20.177	20.605	20.543	20.574	20.482	19.691	20.482	20.360	19.721	20.238	20.390
2L15	15:22:57	20.667	20.452	19.390	19.511	19.934	20.147	20.606	20.514	20.544	20.483	19.722	20.452	20.361	19.753	20.239	20.391
2L15	15:23:56	20.636	20.452	19.390	19.511	19.934	20.147	20.606	20.514	20.575	20.483	19.722	20.452	20.361	19.722	20.239	20.361
2L15	15:25:56	20.635	20.451	19.389	19.509	19.933	20.146	20.604	20.512	20.574	20.482	19.691	20.451	20.390	19.751	20.237	20.390
2L16	15:28:24	20.636	20.452	19.420	19.541	19.934	20.177	20.636	20.513	20.544	20.483	19.692	20.483	20.360	19.752	20.238	20.391
2L16	15:29:26	20.666	20.452	19.390	19.510	19.934	20.147	20.605	20.513	20.575	20.483	19.722	20.452	20.360	19.722	20.238	20.360
2L16	15:31:23	20.635	20.481	19.389	19.539	19.933	20.146	20.604	20.512	20.573	20.512	19.690	20.451	20.390	19.751	20.268	20.359
2L17	15:33:24	20.635	20.451	19.389	19.509	19.933	20.146	20.604	20.543	20.543	20.481	19.721	20.451	20.390	19.751	20.237	20.359
2L17	15:34:31	20.633	20.450	19.388	19.508	19.962	20.175	20.603	20.511	20.542	20.480	19.720	20.480	20.389	19.720	20.236	20.389
2L17	15:36:18	20.633	20.480	19.388	19.508	19.962	20.175	20.633	20.511	20.572	20.511	19.720	20.450	20.389	19.750	20.236	20.358
2L18	15:38:43	20.635	20.451	19.389	19.509	19.933	20.176	20.635	20.512	20.543	20.512	19.721	20.451	20.359	19.721	20.237	20.359
2L18	15:39:41	20.635	20.451	19.389	19.539	19.963	20.146	20.604	20.512	20.573	20.482	19.721	20.482	20.359	19.721	20.238	20.360

Table F.17 continued

VIBRATING WIRE INSTRUMENT READINGS - TEMPERATURE

AUC 4 LOAD NUMBER	TIME	VW STRN TEMP DEG C 13	VW STRN TEMP DEG C 14	VW STRN TEMP DEG C 15	VW STRN TEMP DEG C 16	VW STRN TEMP DEG C 3	VW STRN TEMP DEG C 4	VW STRN TEMP DEG C 17	VW STRN TEMP DEG C 18	VW STRN TEMP DEG C 7	VW STRN TEMP DEG C 8	VW STRN TEMP DEG C 35	VW STRN TEMP DEG C 36	VW STRN TEMP DEG C 21	VW STRN TEMP DEG C 22	VW STRN TEMP DEG C 41	VW STRN TEMP DEG C 42
2L18	15:41:40	20.636	20.452	19.390	19.510	19.934	20.177	20.605	20.513	20.544	20.482	19.722	20.482	20.360	19.722	20.238	20.391
2L19	15:43:31	20.665	20.451	19.388	19.539	19.963	20.146	20.604	20.512	20.543	20.481	19.721	20.451	20.359	19.721	20.237	20.359
2L19	15:44:35	20.634	20.451	19.388	19.539	19.933	20.176	20.604	20.512	20.543	20.512	19.690	20.451	20.359	19.721	20.237	20.359
2L19	15:46:31	20.633	20.450	19.387	19.538	19.932	20.145	20.603	20.511	20.572	20.480	19.750	20.480	20.358	19.720	20.236	20.389
2L19A	15:50:31	20.633	20.449	19.387	19.507	19.962	20.174	20.602	20.510	20.541	20.480	19.719	20.480	20.388	19.719	20.266	20.357
2U1	15:55:26	20.664	20.449	19.387	19.508	19.932	20.144	20.633	20.541	20.541	20.480	19.689	20.449	20.358	19.719	20.266	20.388
2U2	16:00:18	20.632	20.449	19.417	19.507	19.931	20.144	20.602	20.510	20.571	20.510	19.719	20.450	20.359	19.720	20.236	20.359
2U3	16:04:48	20.635	20.451	19.389	19.510	19.933	20.146	20.604	20.543	20.543	20.512	19.691	20.451	20.360	19.721	20.268	20.360
2U4	16:09:24	20.634	20.450	19.389	19.510	19.933	20.146	20.604	20.512	20.574	20.482	19.691	20.451	20.390	19.721	20.238	20.390
2U5	16:13:13	20.634	20.450	19.418	19.509	19.932	20.145	20.603	20.542	20.542	20.511	19.690	20.450	20.358	19.720	20.236	20.358
2U6	16:17:12	20.635	20.451	19.389	19.509	19.933	20.146	20.635	20.512	20.543	20.512	19.721	20.482	20.360	19.721	20.238	20.360
2U7	16:21:17	20.635	20.451	19.389	19.509	19.933	20.146	20.604	20.512	20.573	20.512	19.690	20.451	20.359	19.721	20.237	20.359
2U8	16:26:06	20.636	20.452	19.389	19.510	19.904	20.147	20.605	20.513	20.544	20.482	19.691	20.452	20.391	19.722	20.208	20.391
2U8A	16:28:07	20.636	20.453	19.390	19.511	19.935	20.147	20.606	20.514	20.544	20.483	19.692	20.483	20.361	19.722	20.239	20.361
2U8A	16:45:00	20.641	20.457	19.395	19.515	19.909	20.152	20.610	20.518	20.549	20.518	19.697	20.457	20.366	19.727	20.213	20.366
2U8A	17:00:00	20.640	20.456	19.394	19.545	19.908	20.151	20.609	20.517	20.548	20.487	19.696	20.456	20.364	19.726	20.212	20.395
2U8A	17:15:00	20.646	20.462	19.400	19.520	19.914	20.157	20.616	20.524	20.554	20.493	19.702	20.462	20.401	19.762	20.218	20.371
2U8A	17:30:00	20.648	20.465	19.432	19.522	19.916	20.159	20.648	20.526	20.526	20.495	19.734	20.495	20.373	19.764	20.220	20.373

Table F.17 continued

VIBRATING WIRE CALCULATED STRAIN INCREMENTS

AUC 4 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 13	VW STRN MICRO STRAIN 14	VW STRN MICRO STRAIN 15	VW STRN MICRO STRAIN 16	VW STRN MICRO STRAIN 3	VW STRN MICRO STRAIN 4	VW STRN MICRO STRAIN 17	VW STRN MICRO STRAIN 18	VW STRN MICRO STRAIN 7	VW STRN MICRO STRAIN 8	VW STRN MICRO STRAIN 35	VW STRN MICRO STRAIN 36	VW STRN MICRO STRAIN 21	VW STRN MICRO STRAIN 22	VW STRN MICRO STRAIN 41	VW STRN MICRO STRAIN 42
1L0	12:12:32	9.3	9.5	24.4	26.2	34.8	36.5	42.7	36.6	57.7	65.7	94.5	85.5	105.4	90.8	147.0	131.3
1L0	12:29:58	9.3	9.6	24.5	26.3	34.9	36.5	42.8	36.7	57.7	65.7	94.6	85.4	105.5	90.9	147.0	131.2
1L1	12:36:20	9.2	9.6	24.5	26.3	35.0	36.6	42.8	36.7	57.7	65.7	94.6	85.5	105.4	90.9	146.8	131.2
1L1	12:37:18	9.3	9.6	24.5	26.2	35.0	36.6	42.8	36.6	57.6	65.7	94.7	85.6	105.4	90.9	147.0	131.3
1L1	12:39:17	9.3	9.6	24.5	26.2	35.1	36.6	42.8	36.6	57.7	65.7	94.6	85.5	105.5	90.8	146.8	131.2
1L2	12:41:06	9.3	9.6	24.5	26.1	34.8	36.6	42.8	36.6	57.7	65.7	94.6	85.4	105.4	90.9	146.9	131.2
1L2	12:42:05	9.3	9.6	24.5	26.2	35.0	36.6	42.8	36.6	57.7	65.7	94.7	85.5	105.4	90.9	146.9	131.2
1L2	12:44:08	9.3	9.6	24.5	26.2	35.0	36.5	42.8	36.6	57.6	65.8	94.6	85.4	105.5	90.8	146.8	131.2
1L3	12:46:00	9.3	9.6	24.5	26.2	35.0	36.6	42.8	36.6	57.6	65.7	94.7	85.5	105.5	90.8	147.0	131.2
1L3	12:47:00	9.3	9.5	24.5	26.1	34.9	36.5	42.7	36.6	57.6	65.7	94.6	85.4	105.4	90.9	147.0	131.2
1L3	12:49:00	9.3	9.5	24.5	26.2	34.8	36.6	42.7	36.6	57.7	65.7	94.6	85.4	105.4	90.8	146.9	131.2
1L4	12:51:14	9.3	9.6	24.5	26.2	35.0	36.5	42.7	36.7	57.7	65.8	94.8	85.5	105.5	90.9	146.9	131.2
1L4	12:52:16	9.3	9.6	24.5	26.3	35.1	36.6	42.7	36.6	57.7	65.7	94.7	85.5	105.5	90.8	146.9	131.3
1L4	12:54:12	9.3	9.6	24.6	26.3	35.0	36.6	42.8	36.7	57.8	65.7	94.8	85.5	105.5	90.9	146.9	131.3
1L5	12:56:06	9.3	9.6	24.6	26.2	35.1	36.6	42.8	36.7	57.7	65.8	94.8	85.5	105.5	90.9	146.9	131.3
1L5	12:57:07	9.3	9.7	24.6	26.3	35.2	36.6	42.8	36.7	57.8	65.8	94.8	85.5	105.5	90.9	146.9	131.3
1L5	12:59:05	9.3	9.6	24.6	26.3	35.1	36.7	42.8	36.7	57.8	65.8	94.8	85.6	105.5	90.9	146.6	131.3
1L6	13:01:06	9.3	9.6	24.6	26.3	35.2	36.6	42.8	36.7	57.7	65.8	94.8	85.6	105.5	90.9	146.7	131.2
1L6	13:02:10	9.3	9.6	24.6	26.3	35.1	36.7	42.8	36.7	57.7	65.8	94.8	85.7	105.5	90.9	146.8	131.3
1L6	13:04:06	9.3	9.6	24.6	26.3	35.0	36.7	42.8	36.7	57.8	65.8	94.8	85.6	105.5	90.9	146.8	131.3
1L7	13:05:58	9.3	9.6	24.6	26.3	35.1	36.7	42.8	36.8	57.8	65.8	94.9	85.5	105.5	90.9	146.8	131.2
1L7	13:06:58	9.3	9.6	24.6	26.3	35.1	36.7	42.8	36.7	57.7	65.8	94.9	85.6	105.5	90.9	146.8	131.2
1L7	13:09:02	9.4	9.6	24.6	26.3	35.0	36.8	42.9	36.8	57.7	65.8	94.9	85.6	105.5	90.9	146.7	131.3
1L8	13:11:11	9.4	9.6	24.6	26.3	35.2	36.7	42.9	36.8	57.8	65.8	95.0	85.6	105.6	90.9	148.7	131.3
1L8	13:12:08	9.4	9.6	24.6	26.3	35.1	36.7	42.9	36.8	57.8	65.8	94.9	85.6	105.6	90.9	148.8	131.2
1L8	13:14:06	9.3	9.6	24.6	26.3	35.1	36.7	42.9	36.8	57.8	65.9	94.9	85.6	105.5	90.9	149.2	131.2
1U1	13:18:46	9.3	9.6	24.7	26.2	35.1	36.6	42.8	36.7	57.8	65.8	94.8	85.6	105.5	90.8	149.2	131.2
1U2	13:22:30	9.2	9.5	24.6	26.2	35.0	36.6	42.8	36.7	57.7	65.8	94.7	85.4	105.5	90.9	149.1	131.2
2L0	13:28:52	0.1	0.1	2.0	2.4	1.0	2.7	2.9	0.7	0.6	3.1	2.7	2.1	2.9	1.5	3.1	2.9
2L0	13:34:22	0.1	-0.1	1.2	1.5	1.3	1.7	1.4	-0.0	-0.9	2.0	1.3	1.4	1.5	1.2	2.0	2.4
2L0	14:00:40	-0.1	-0.0	0.1	0.1	0.2	0.2	0.2	0.0	-0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.1
2L0	14:03:03	-0.1	0.1	0.0	0.1	0.2	0.2	0.1	-0.1	-0.2	0.2	0.1	0.2	0.2	0.1	0.2	0.0
2L0	14:08:31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2L1	14:11:26	0.4	-0.0	1.2	2.2	1.0	1.9	2.7	0.6	2.0	3.9	5.7	5.3	6.7	7.0	11.0	9.0
2L1	14:12:28	0.4	-0.0	1.3	2.2	1.0	2.0	2.8	0.7	2.1	3.8	5.9	5.3	6.8	7.1	11.1	9.0
2L1	14:14:26	0.4	0.1	1.3	2.3	1.1	2.0	2.8	0.7	2.3	3.9	6.0	5.4	6.8	7.1	11.1	9.0
2L2	14:16:42	1.2	0.2	2.7	2.8	3.4	3.9	5.5	4.3	5.2	8.5	13.3	13.1	15.5	15.6	25.3	19.0
2L2	14:17:46	1.2	0.2	2.7	2.9	3.5	4.0	5.5	4.5	5.4	8.6	13.7	13.3	15.9	15.7	25.5	19.1
2L2	14:19:40	1.3	0.2	2.8	2.8	3.6	4.1	5.7	4.6	5.4	8.7	13.9	13.4	15.9	15.8	25.5	19.2
2L3	14:22:01	2.1	0.6	4.8	5.4	6.5	6.8	9.2	5.7	10.7	14.2	22.4	21.2	25.7	25.3	40.6	32.1
2L3	14:22:57	2.1	0.6	4.9	5.5	6.6	6.9	9.2	5.7	10.7	14.2	22.4	21.2	25.6	25.3	40.5	32.1
2L3	14:24:56	2.1	0.7	5.1	5.5	6.6	7.0	9.3	5.8	10.8	14.4	22.5	21.4	25.8	25.5	40.6	32.2
2L4	14:27:05	3.0	1.6	6.4	8.5	8.8	9.5	12.9	8.6	15.7	20.0	31.1	28.9	36.0	34.2	58.2	45.7

Table F.17 continued

VIBRATING WIRE CALCULATED STRAIN INCREMENTS

AUC 4 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 13	VW STRN MICRO STRAIN 14	VW STRN MICRO STRAIN 15	VW STRN MICRO STRAIN 16	VW STRN MICRO STRAIN 3	VW STRN MICRO STRAIN 4	VW STRN MICRO STRAIN 17	VW STRN MICRO STRAIN 18	VW STRN MICRO STRAIN 7	VW STRN MICRO STRAIN 8	VW STRN MICRO STRAIN 35	VW STRN MICRO STRAIN 36	VW STRN MICRO STRAIN 21	VW STRN MICRO STRAIN 22	VW STRN MICRO STRAIN 41	VW STRN MICRO STRAIN 42
2L4	14:28:05	2.9	1.6	6.4	8.5	9.0	9.6	12.9	8.7	15.7	20.2	31.3	28.9	36.1	34.3	58.2	45.7
2L4	14:30:02	3.0	1.7	6.4	8.3	9.1	9.6	13.1	8.9	15.9	20.2	31.4	29.1	36.2	34.5	58.2	45.8
2L5	14:32:03	3.8	2.8	8.2	9.1	11.6	13.1	16.7	12.1	21.4	25.9	40.1	37.5	46.2	43.5	72.7	59.3
2L5	14:33:03	3.8	2.9	8.3	9.3	11.8	13.2	16.9	12.2	21.5	26.1	40.2	37.5	46.3	43.8	73.1	59.6
2L5	14:35:00	3.9	3.0	8.4	9.5	12.0	13.4	17.2	12.3	21.7	26.3	40.7	37.5	46.4	43.8	73.0	59.6
2L6	14:37:18	4.6	4.0	10.6	12.1	14.9	16.0	21.0	15.8	27.0	32.5	50.2	45.4	56.0	52.6	86.2	72.9
2L6	14:38:16	4.6	4.0	10.6	12.2	15.2	16.1	21.1	15.9	27.2	32.7	49.8	45.7	56.3	53.2	86.1	73.3
2L6	14:40:16	4.6	4.2	10.7	12.5	15.6	16.3	21.3	16.1	27.4	32.9	49.6	45.9	56.3	53.2	86.1	73.0
2L7	14:42:20	4.7	4.5	12.7	13.0	17.6	19.0	24.9	18.3	32.7	38.7	59.5	53.9	66.4	61.7	101.9	86.1
2L7	14:43:18	4.7	4.5	12.8	13.2	17.8	19.4	25.0	18.5	32.9	38.9	59.7	53.9	66.6	61.9	102.0	86.2
2L7	14:45:16	4.7	4.6	12.9	13.4	17.8	19.7	25.2	18.8	33.2	39.2	59.9	54.1	66.7	62.1	102.0	86.4
2L8	14:47:06	6.0	6.1	14.8	16.6	21.0	22.5	29.2	21.9	38.7	45.3	68.2	61.9	76.3	70.4	115.8	98.6
2L8	14:48:09	6.1	6.1	14.8	16.7	20.8	22.6	29.4	22.0	38.9	45.4	68.5	62.0	76.5	70.5	115.9	98.6
2L8	14:50:06	6.1	6.1	15.0	16.8	20.7	22.8	29.7	22.2	39.1	45.6	68.6	62.2	76.8	70.8	116.1	99.2
2L9	14:52:08	7.2	6.1	16.9	18.6	23.9	26.0	33.3	25.0	44.3	51.2	76.4	69.8	86.4	78.9	129.8	110.0
2L9	14:53:02	7.2	6.1	17.0	18.7	24.0	26.2	33.5	25.1	44.6	51.5	76.6	70.1	86.9	79.0	129.9	110.1
2L9	14:55:01	7.2	6.1	17.2	18.3	24.1	26.4	33.7	25.1	44.8	51.8	76.9	70.3	87.0	79.1	130.1	110.5
2L10	14:57:00	8.1	7.1	19.1	20.9	26.4	28.7	36.9	28.3	49.8	57.6	85.0	78.5	96.0	87.0	143.8	122.0
2L10	14:57:59	8.1	7.2	19.1	21.0	26.6	28.7	37.0	28.4	49.9	57.9	85.2	78.7	96.1	87.3	144.0	122.2
2L10	14:59:58	8.2	7.2	19.3	21.1	26.7	29.1	37.2	28.5	50.3	58.0	85.4	78.4	96.1	87.2	143.9	122.1
2L11	15:02:09	8.8	7.9	21.0	22.1	29.5	32.0	40.9	31.6	55.7	63.6	93.5	85.8	105.7	95.2	157.1	133.2
2L11	15:03:10	8.8	7.9	21.0	22.2	29.6	32.3	41.2	31.7	55.9	64.0	93.6	86.2	106.0	95.2	156.9	133.0
2L11	15:05:08	8.8	7.9	21.1	22.5	29.6	32.5	41.4	31.9	56.1	64.3	93.8	86.5	106.4	95.4	157.0	133.2
2L12	15:07:38	9.1	8.0	22.9	25.0	32.3	35.7	44.6	34.4	61.0	69.9	102.2	92.9	115.5	102.7	169.4	143.1
2L12	15:08:48	9.0	8.0	23.0	25.1	32.5	35.7	45.1	34.5	61.6	70.2	102.3	93.1	115.6	102.8	169.4	143.1
2L12	15:10:38	9.0	8.0	23.1	25.2	32.6	35.8	45.8	34.6	61.9	70.4	102.5	93.4	115.7	102.9	169.5	143.2
2L13	15:12:46	9.3	8.1	24.7	27.7	35.3	40.0	49.1	38.4	68.2	77.7	112.8	103.2	127.1	113.1	182.4	155.9
2L13	15:13:47	9.2	8.0	24.8	27.8	35.4	40.0	49.3	38.6	68.9	78.4	113.4	103.7	127.5	113.7	182.4	156.5
2L13	15:15:59	9.1	7.9	24.7	27.8	35.5	40.1	49.6	38.8	69.6	79.3	113.8	103.7	127.6	113.7	182.6	156.0
2L14	15:17:58	9.4	7.9	26.3	27.5	39.3	43.5	54.6	42.3	77.1	88.2	125.9	113.6	139.8	124.8	197.1	170.5
2L14	15:18:54	9.4	7.9	26.3	27.5	39.4	43.6	54.8	42.4	77.8	88.9	128.2	114.0	140.1	124.9	197.3	170.2
2L14	15:20:52	9.3	7.9	26.3	27.2	39.5	43.7	55.0	42.5	78.3	89.1	126.5	114.5	140.8	125.2	197.4	170.2
2L15	15:22:57	9.4	7.9	27.6	29.7	43.0	46.9	60.8	47.0	87.4	100.1	141.7	125.3	153.5	137.2	211.2	185.2
2L15	15:23:56	9.4	7.8	27.5	29.4	42.8	47.2	60.7	47.0	87.6	100.8	139.8	126.0	153.9	137.7	211.2	185.3
2L15	15:25:56	9.4	7.8	27.3	29.0	42.5	47.2	60.9	46.9	88.0	101.4	139.8	126.1	154.1	137.8	211.2	185.2
2L16	15:28:24	9.5	7.9	28.7	30.6	44.7	50.5	66.2	50.3	96.3	110.3	151.5	135.9	165.4	148.5	224.4	197.8
2L16	15:29:26	9.5	7.9	28.7	30.2	44.1	50.5	66.3	50.1	96.7	110.8	152.4	136.6	166.0	148.9	225.0	199.0
2L16	15:31:23	9.4	7.8	28.5	29.6	43.6	50.8	66.8	50.0	97.8	112.5	154.5	137.2	166.5	149.4	225.4	199.0
2L17	15:33:24	9.5	8.0	30.2	31.1	46.8	54.8	72.1	54.4	105.1	120.4	164.9	146.4	177.4	159.8	237.9	212.0
2L17	15:34:31	9.6	8.0	30.4	31.1	46.5	54.9	72.1	54.5	105.3	120.2	164.9	146.1	177.6	159.8	238.1	212.4
2L17	15:36:18	9.6	8.0	30.6	31.2	46.5	55.2	72.3	54.5	104.9	119.8	164.5	145.0	177.3	159.9	237.9	213.2
2L18	15:38:43	9.6	8.3	32.0	31.7	46.8	55.3	72.7	55.0	106.1	121.1	167.5	146.5	179.0	160.8	241.0	215.7
2L18	15:39:41	9.4	8.3	31.9	31.4	46.2	54.4	72.5	54.8	105.4	121.0	167.6	146.0	179.8	161.0	241.0	216.6

Table F.17 continued

VIBRATING WIRE CALCULATED STRAIN INCREMENTS

AUC 4 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 13	VW STRN MICRO STRAIN 14	VW STRN MICRO STRAIN 15	VW STRN MICRO STRAIN 16	VW STRN MICRO STRAIN 3	VW STRN MICRO STRAIN 4	VW STRN MICRO STRAIN 17	VW STRN MICRO STRAIN 18	VW STRN MICRO STRAIN 7	VW STRN MICRO STRAIN 8	VW STRN MICRO STRAIN 35	VW STRN MICRO STRAIN 36	VW STRN MICRO STRAIN 21	VW STRN MICRO STRAIN 22	VW STRN MICRO STRAIN 41	VW STRN MICRO STRAIN 42
2L18	15:41:40	9.7	8.4	32.2	31.5	46.2	54.3	72.3	54.2	103.8	119.9	167.6	145.2	178.8	160.9	240.0	216.2
2L19	15:43:31	9.7	8.6	33.2	32.2	47.3	56.5	73.2	55.1	105.7	121.4	169.3	146.2	180.8	163.9	242.6	220.4
2L19	15:44:35	9.8	8.8	33.4	32.2	47.6	56.9	74.0	55.1	105.0	121.5	169.7	145.4	181.0	163.1	242.7	219.3
2L19	15:46:31	10.3	8.8	33.5	32.3	47.0	56.6	73.5	54.8	103.9	121.2	169.6	144.0	179.8	163.0	242.0	219.6
2L19A	15:50:31	10.7	8.9	34.1	33.8	47.9	57.2	74.3	54.8	103.3	121.6	171.4	142.3	179.0	163.1	240.2	219.9
2U1	15:55:26	10.3	8.4	31.2	31.0	43.9	52.8	69.2	49.9	96.0	114.2	160.9	130.8	164.3	149.9	219.6	200.1
2U2	16:00:18	9.5	7.2	28.1	27.1	39.0	48.0	63.3	45.0	87.5	104.8	142.5	117.2	145.6	134.3	192.4	173.7
2U3	16:04:48	7.7	5.9	24.3	22.2	32.7	41.5	55.5	38.4	76.2	91.6	121.8	99.7	121.5	114.5	161.7	144.0
2U4	16:09:24	5.4	3.7	20.1	18.4	27.1	35.8	48.6	32.8	65.9	80.3	105.0	84.9	102.4	97.9	136.3	120.5
2U5	16:13:13	3.9	0.6	14.5	12.5	19.6	27.5	38.5	24.9	51.6	64.4	82.9	65.3	77.9	75.8	103.2	89.9
2U6	16:17:12	1.9	-0.6	9.1	8.4	12.3	19.2	28.7	16.3	38.0	48.7	61.7	47.0	56.0	55.7	72.0	62.3
2U7	16:21:17	-0.5	-4.1	2.2	-0.3	2.1	9.0	16.0	5.7	19.6	29.3	36.7	24.0	30.8	30.8	34.1	30.2
2U8	16:26:06	-1.8	-5.9	-4.8	-7.7	-7.5	-1.7	3.5	-4.1	3.7	9.6	12.3	2.2	6.8	7.0	2.5	4.5
2U8A	16:28:07	-1.8	-5.7	-5.0	-7.7	-7.5	-1.8	3.3	-4.1	3.4	9.3	12.3	2.0	6.6	6.9	2.1	4.4
2U8A	16:45:00	-1.6	-5.6	-5.4	-7.8	-7.5	-2.3	2.5	-4.1	1.8	8.4	11.4	1.5	5.7	6.0	1.5	3.6
2U8A	17:00:00	-1.6	-5.7	-5.5	-7.7	-7.5	-3.0	2.0	-4.2	0.8	7.9	11.2	1.1	5.4	5.7	0.7	3.1
2U8A	17:15:00	-1.5	-5.9	-5.6	-7.7	-7.5	-3.4	1.7	-4.3	0.3	7.5	10.9	0.8	5.3	5.5	0.1	2.8
2U8A	17:30:00	-1.5	-5.8	-5.6	-7.6	-7.5	-3.5	1.5	-4.4	0.1	7.4	10.2	0.8	5.2	5.3	-0.2	2.7

Table F.17 continued

VIBRATING WIRE CALCULATED STRAIN (4 MINUTE READINGS)

AUC 4 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 13	VW STRN MICRO STRAIN 14	VW STRN MICRO STRAIN 15	VW STRN MICRO STRAIN 16	VW STRN MICRO STRAIN 3	VW STRN MICRO STRAIN 4	VW STRN MICRO STRAIN 17	VW STRN MICRO STRAIN 18	VW STRN MICRO STRAIN 7	VW STRN MICRO STRAIN 8	VW STRN MICRO STRAIN 35	VW STRN MICRO STRAIN 36	VW STRN MICRO STRAIN 21	VW STRN MICRO STRAIN 22	VW STRN MICRO STRAIN 41	VW STRN MICRO STRAIN 42
2L0	14:08:31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2L1	14:14:26	0.4	0.1	1.3	2.3	1.1	2.0	2.8	0.7	2.3	3.9	6.0	5.4	6.8	7.1	11.1	9.0
2L2	14:19:40	1.3	0.2	2.8	2.8	3.6	4.1	5.7	4.6	5.4	8.7	13.9	13.4	15.9	15.8	25.5	19.2
2L3	14:24:56	2.1	0.7	5.1	5.5	6.6	7.0	9.3	5.8	10.8	14.4	22.5	21.4	25.8	25.5	40.6	32.2
2L4	14:30:02	3.0	1.7	6.4	8.3	9.1	9.6	13.1	8.9	15.9	20.2	31.4	29.1	36.2	34.5	58.2	45.8
2L5	14:35:00	3.9	3.0	8.4	9.5	12.0	13.4	17.2	12.3	21.7	26.3	40.7	37.5	46.4	43.8	73.0	59.6
2L6	14:40:16	4.6	4.2	10.7	12.5	15.6	16.3	21.3	16.1	27.4	32.9	49.6	45.9	56.3	53.2	86.1	73.0
2L7	14:45:16	4.7	4.6	12.9	13.4	17.8	19.7	25.2	18.8	33.2	39.2	59.9	54.1	66.7	62.1	102.0	86.4
2L8	14:50:06	6.1	6.1	15.0	16.8	20.7	22.8	29.7	22.2	39.1	45.6	68.6	62.2	76.8	70.8	116.1	99.2
2L9	14:55:01	7.2	6.1	17.2	18.3	24.1	26.4	33.7	25.1	44.8	51.8	76.9	70.3	87.0	79.1	130.1	110.5
2L10	14:59:58	8.2	7.2	19.3	21.1	26.7	29.1	37.2	28.5	50.3	58.0	85.4	78.4	96.1	87.2	143.9	122.1
2L11	15:05:08	8.8	7.9	21.1	22.5	29.6	32.5	41.4	31.9	56.1	64.3	93.8	86.5	106.4	95.4	157.0	133.2
2L12	15:10:38	9.0	8.0	23.1	25.2	32.6	35.8	45.8	34.6	61.9	70.4	102.5	93.4	115.7	102.9	169.5	143.2
2L13	15:15:59	9.1	7.9	24.7	27.8	35.5	40.1	49.6	38.8	69.6	79.3	113.8	103.7	127.6	113.7	182.6	156.0
2L14	15:20:52	9.3	7.9	26.3	27.2	39.5	43.7	55.0	42.5	78.3	89.1	126.5	114.5	140.8	125.2	197.4	170.2
2L15	15:25:56	9.4	7.8	27.3	29.0	42.5	47.2	60.9	46.9	88.0	101.4	139.8	126.1	154.1	137.8	211.2	185.2
2L16	15:31:23	9.4	7.8	28.5	29.6	43.6	50.8	66.8	50.0	97.8	112.5	154.5	137.2	166.5	149.4	225.4	199.0
2L17	15:36:18	9.6	8.0	30.6	31.2	46.5	55.2	72.3	54.5	104.9	119.8	164.5	145.0	177.3	159.9	237.9	213.2
2L18	15:41:40	9.7	8.4	32.2	31.5	46.2	54.3	72.3	54.2	103.8	119.9	167.6	145.2	178.8	160.9	240.0	216.2
2L19	15:46:31	10.3	8.8	33.5	32.3	47.0	56.6	73.5	54.8	103.9	121.2	169.6	144.0	179.8	163.0	242.0	219.6
2L19A	15:50:31	10.7	8.9	34.1	33.8	47.9	57.2	74.3	54.8	103.3	121.6	171.4	142.3	179.0	163.1	240.2	219.9
2U1	15:55:26	10.3	8.4	31.2	31.0	43.9	52.8	69.2	49.9	96.0	114.2	160.9	130.8	164.3	149.9	219.6	200.1
2U2	16:00:18	9.5	7.2	28.1	27.1	39.0	48.0	63.3	45.0	87.5	104.8	142.5	117.2	145.6	134.3	192.4	173.7
2U3	16:04:48	7.7	5.9	24.3	22.2	32.7	41.5	55.5	38.4	76.2	91.6	121.8	99.7	121.5	114.5	161.7	144.0
2U4	16:09:24	5.4	3.7	20.1	18.4	27.1	35.8	48.6	32.8	65.9	80.3	105.0	84.9	102.4	97.9	136.3	120.5
2U5	16:13:13	3.9	0.6	14.5	12.5	19.6	27.5	38.5	24.9	51.6	64.4	82.9	65.3	77.9	75.8	103.2	89.9
2U6	16:17:12	1.9	-0.6	9.1	8.4	12.3	19.2	28.7	16.3	38.0	48.7	61.7	47.0	56.0	55.7	72.0	62.3
2U7	16:21:17	-0.5	-4.1	2.2	-0.3	2.1	9.0	16.0	5.7	19.6	29.3	36.7	24.0	30.8	30.8	34.1	30.2
2U8	16:26:06	-1.8	-5.9	-4.8	-7.7	-7.5	-1.7	3.5	-4.1	3.7	9.6	12.3	2.2	6.8	7.0	2.5	4.5
2U8A	16:28:07	-1.8	-5.7	-5.0	-7.7	-7.5	-1.8	3.3	-4.1	3.4	9.3	12.3	2.0	6.6	6.9	2.1	4.4

Table F.17 continued

AVERAGE STRAIN AT EACH GAGE LEVEL, INTEGRATED PILE COMPRESSION & COMPARISON WITH TELLTALE MEASUREMENT (4 MINUTE READINGS)

AUC 4 LOAD NUMBER	AVG VW MICRO STRAIN SURFACE	AVG VW MICRO STRAIN 13+14	AVG VW MICRO STRAIN 15+16	AVG VW MICRO STRAIN 3+4	AVG VW MICRO STRAIN 17+18	AVG VW MICRO STRAIN 7+8	AVG VW MICRO STRAIN 35+36	AVG VW MICRO STRAIN 21+22	AVG VW MICRO STRAIN 41+42	EST'D. MICRO STRAIN CELL TOP	PILE COMPRESSION SG MSMT. INCHES	TT MSMT. INCHES	ABS.DIFF. SG-TT INCHES
2L0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0000	0.0000	0.0000
2L1	0.0	0.3	1.8	1.5	1.8	3.1	5.7	7.0	10.0	11.8	0.0023	0.0018	0.0004
2L2	0.0	0.7	2.8	3.9	5.1	7.0	13.6	15.8	22.3	24.8	0.0052	0.0043	0.0009
2L3	0.0	1.4	5.3	6.8	7.5	12.6	22.0	25.7	36.4	38.9	0.0086	0.0072	0.0015
2L4	0.0	2.3	7.4	9.4	11.0	18.1	30.2	35.3	52.0	53.8	0.0121	0.0102	0.0019
2L5	0.0	3.4	8.9	12.7	14.7	24.0	39.1	45.1	66.3	68.0	0.0158	0.0133	0.0025
2L6	0.0	4.4	11.6	15.9	18.7	30.2	47.7	54.8	79.6	81.5	0.0194	0.0163	0.0031
2L7	0.0	4.6	13.1	18.8	22.0	36.2	57.0	64.4	94.2	95.8	0.0230	0.0196	0.0034
2L8	0.0	6.1	15.9	21.7	25.9	42.4	65.4	73.8	107.7	109.3	0.0266	0.0226	0.0040
2L9	0.0	6.7	17.8	25.3	29.4	48.3	73.6	83.1	120.3	122.3	0.0301	0.0257	0.0044
2L10	0.0	7.7	20.2	27.9	32.9	54.1	81.9	91.7	133.0	135.4	0.0335	0.0288	0.0047
2L11	0.0	8.4	21.8	31.0	36.6	60.2	90.1	100.9	145.1	147.9	0.0369	0.0323	0.0046
2L12	0.0	8.5	24.1	34.2	40.2	66.2	98.0	109.3	156.3	160.1	0.0401	0.0348	0.0054
2L13	0.0	8.5	26.2	37.8	44.2	74.4	108.7	120.6	169.3	173.2	0.0441	0.0387	0.0054
2L14	0.0	8.6	26.8	41.6	48.8	83.7	120.5	133.0	183.8	187.2	0.0485	0.0423	0.0062
2L15	0.0	8.6	28.1	44.8	53.9	94.7	132.9	146.0	198.2	201.6	0.0531	0.0466	0.0065
2L16	0.0	8.6	29.0	47.2	58.4	105.2	145.8	158.0	212.2	215.2	0.0575	0.0504	0.0071
2L17	0.0	8.8	30.9	50.8	63.4	112.4	154.8	168.6	225.5	228.5	0.0614	0.0538	0.0076
2L18	0.0	9.1	31.8	50.2	63.2	111.8	156.4	169.9	228.1	231.2	0.0617	0.0547	0.0070
2L19	0.0	9.5	32.9	51.8	64.1	112.6	156.8	171.4	230.8	234.0	0.0624	0.0552	0.0072
2L19A	0.0	9.8	34.0	52.6	64.5	112.5	156.9	171.1	230.1	233.5	0.0626	0.0552	0.0074
2U1	0.0	9.4	31.1	48.4	59.6	105.1	145.8	157.1	209.9	210.5	0.0578	0.0516	0.0062
2U2	0.0	8.4	27.6	43.5	54.1	96.2	129.8	139.9	183.0	181.5	0.0517	0.0463	0.0054
2U3	0.0	6.8	23.2	37.1	47.0	83.9	110.8	118.0	152.9	150.1	0.0441	0.0396	0.0045
2U4	0.0	4.5	19.3	31.4	40.7	73.1	95.0	100.1	128.4	125.5	0.0375	0.0342	0.0033
2U5	0.0	2.2	13.5	23.6	31.7	58.0	74.1	76.9	96.6	93.6	0.0287	0.0261	0.0027
2U6	0.0	0.7	8.7	15.7	22.5	43.4	54.4	55.9	67.1	64.7	0.0205	0.0189	0.0017
2U7	0.0	-2.3	0.9	5.6	10.8	24.5	30.3	30.8	32.2	32.8	0.0101	0.0097	0.0004
2U8	0.0	-3.8	-6.3	-4.6	-0.3	6.7	7.3	6.9	3.5	2.2	0.0005	0.0018	-0.0012
2U8A	0.0	-3.8	-6.3	-4.7	-0.4	6.3	7.1	6.7	3.2	2.1	0.0005	0.0014	-0.0009
ELEV. FT	53.21	43.25	35.25	28.25	21.75	11.75	2.75	-0.25	-8.25	-8.75			

Table F.17 continued

VIBRATING WIRE CALCULATED AVERAGE LOADS (4 MINUTE READINGS)

LA = 8.00 ft ACA = 317.115 si
LB = 1.38 ft ACB = 313.155 si
B = 18.00 in ASA = 3.538 si
ES = 27500.0 ksi ASB = 7.498 si

AUC 4 LOAD NUMBER	AVG VW LOAD TONS SURFACE	AVG VW LOAD TONS 13+14	AVG VW LOAD TONS 15+16	AVG VW LOAD TONS 3+4	AVG VW LOAD TONS 17+18	AVG VW LOAD TONS 7+8	AVG VW LOAD TONS 35+36	AVG VW LOAD TONS 21+22	AVG VW LOAD TONS 41+42	OSTERBERG LOAD TONS BOTTOM	INCR. PILE MODULUS KSI	CALC. PILE A MODULUS KSI	CALC. PILE B MODULUS KSI
2L0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0		4333.1	4618.9
2L1	0.0	0.19	1.25	1.07	1.24	2.17	3.98	4.88	7.52	11.2	6871.7	4333.1	4618.9
2L2	0.0	0.51	1.95	2.71	3.60	4.92	9.58	11.12	16.71	21.7	5290.4	4333.1	4618.9
2L3	0.0	0.99	3.71	4.78	5.29	8.85	15.41	18.02	27.23	32.3	4649.4	4333.1	4618.9
2L4	0.0	1.65	5.18	6.58	7.71	12.69	21.21	24.81	38.90	42.7	4118.4	4333.1	4618.9
2L5	0.0	2.39	6.28	8.90	10.35	16.88	27.46	31.67	49.61	53.1	4462.3	4333.1	4618.9
2L6	0.0	3.06	8.12	11.18	13.10	21.18	33.51	38.45	59.56	63.5	4865.0	4333.1	4618.9
2L7	0.0	3.26	9.20	13.19	15.43	25.40	40.02	45.20	70.51	73.7	4284.4	4333.1	4618.9
2L8	0.0	4.28	11.17	15.26	18.21	29.74	45.91	51.80	80.57	84.0	4733.0	4333.1	4618.9
2L9	0.0	4.69	12.47	17.74	20.66	33.91	51.63	58.32	90.00	94.1	4942.9	4333.1	4618.9
2L10	0.0	5.42	14.18	19.61	23.07	37.98	57.51	64.34	99.49	104.4	5037.6	4333.1	4618.9
2L11	0.0	5.86	15.30	21.78	25.72	42.25	63.28	70.84	108.57	114.3	5015.3	4333.1	4618.9
2L12	0.0	5.97	16.94	24.02	28.24	46.44	68.76	76.74	116.98	124.7	5705.3	4333.1	4618.9
2L13	0.0	5.98	18.40	26.52	31.03	52.24	76.33	84.68	126.70	134.6	4710.3	4333.1	4618.9
2L14	0.0	6.04	18.78	29.21	34.23	58.78	84.58	93.36	137.52	144.6	4260.7	4333.1	4618.9
2L15	0.0	6.04	19.75	31.48	37.85	66.47	93.31	102.46	148.32	155.2	4529.9	4333.1	4618.9
2L16	0.0	6.05	20.39	33.11	40.97	73.82	102.37	110.88	158.79	165.0	4311.2	4333.1	4618.9
2L17	0.0	6.18	21.69	35.67	44.51	78.87	108.64	118.35	168.75	174.8	4570.8	4333.1	4618.9
2L18	0.0	6.36	22.35	35.25	44.39	78.51	109.81	119.25	170.70	177.0	5314.5	4333.1	4618.9
2L19	0.0	6.70	23.12	36.37	45.03	79.03	110.05	120.32	172.69	179.3	5209.4	4333.1	4618.9
2L19A	0.0	6.88	23.85	36.90	45.30	78.96	110.13	120.09	172.16	179.3		4333.1	4618.9
2U1	0.0	6.57	21.83	33.95	41.83	73.79	102.37	110.27	157.03	158.4		4333.1	4618.9
2U2	0.0	5.88	19.37	30.52	38.00	67.50	91.15	98.22	136.97	133.8		4333.1	4618.9
2U3	0.0	4.77	16.30	26.05	32.97	58.89	77.75	82.83	114.38	108.7		4333.1	4618.9
2U4	0.0	3.17	13.52	22.07	28.56	51.32	66.65	70.28	96.07	90.0		4333.1	4618.9
2U5	0.0	1.56	9.49	16.56	22.25	40.72	52.04	53.97	72.26	66.1		4333.1	4618.9
2U6	0.0	0.47	6.13	11.05	15.78	30.46	38.17	39.24	50.23	45.2		4333.1	4618.9
2U7	0.0	-1.62	0.66	3.90	7.61	17.19	21.30	21.62	24.08	25.3		4333.1	4618.9
2U8	0.0	-2.68	-4.39	-3.20	-0.22	4.68	5.11	4.84	2.59	0.0		4333.1	4618.9
2U8A	0.0	-2.64	-4.45	-3.27	-0.26	4.44	5.01	4.74	2.43	0.0		4333.1	4618.9
ELEV. FT	53.21	43.25	35.25	28.25	21.75	11.75	2.75	-0.25	-8.25	-9.63	4120.4 KSI = CONCRETE MODULUS		

Table F.17 continued

INTEGRATED MOVEMENT AT VW STRAIN GAGE (4 MINUTE READINGS)

AUC 4 LOAD NUMBER	VW MOVEMENT INCHES SURFACE	VW MOVEMENT INCHES 13+14	VW MOVEMENT INCHES 15+16	VW MOVEMENT INCHES 3+4	VW MOVEMENT INCHES 17+18	VW MOVEMENT INCHES 7+8	VW MOVEMENT INCHES 35+36	VW MOVEMENT INCHES 21+22	VW MOVEMENT INCHES 41+42	VW MOVEMENT INCHES CELL TOP
2L0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2L1	-0.0004	-0.0004	-0.0003	-0.0002	-0.0000	0.0003	0.0007	0.0010	0.0018	0.0018
2L2	-0.0009	-0.0009	-0.0007	-0.0004	-0.0001	0.0006	0.0017	0.0023	0.0041	0.0043
2L3	-0.0015	-0.0014	-0.0011	-0.0005	0.0000	0.0012	0.0031	0.0039	0.0069	0.0072
2L4	-0.0019	-0.0018	-0.0013	-0.0006	0.0002	0.0019	0.0045	0.0057	0.0099	0.0102
2L5	-0.0025	-0.0023	-0.0017	-0.0008	0.0002	0.0026	0.0060	0.0075	0.0128	0.0133
2L6	0.0019	0.0021	0.0029	0.0040	0.0054	0.0083	0.0125	0.0144	0.0208	0.0213
2L7	0.0016	0.0019	0.0028	0.0041	0.0057	0.0092	0.0142	0.0164	0.0240	0.0246
2L8	0.0010	0.0013	0.0024	0.0040	0.0058	0.0099	0.0157	0.0182	0.0269	0.0276
2L9	0.0056	0.0060	0.0072	0.0090	0.0111	0.0158	0.0224	0.0252	0.0350	0.0357
2L10	0.0053	0.0058	0.0071	0.0092	0.0115	0.0167	0.0241	0.0272	0.0380	0.0388
2L11	0.0054	0.0059	0.0073	0.0096	0.0122	0.0180	0.0261	0.0296	0.0414	0.0423
2L12	0.0046	0.0052	0.0067	0.0092	0.0121	0.0185	0.0273	0.0310	0.0438	0.0448
2L13	0.0096	0.0101	0.0117	0.0144	0.0176	0.0247	0.0346	0.0388	0.0527	0.0537
2L14	0.0138	0.0143	0.0160	0.0189	0.0224	0.0303	0.0414	0.0459	0.0611	0.0622
2L15	0.0185	0.0190	0.0207	0.0238	0.0277	0.0366	0.0489	0.0539	0.0704	0.0716
2L16	0.0329	0.0334	0.0352	0.0384	0.0425	0.0523	0.0659	0.0713	0.0891	0.0904
2L17	0.0724	0.0729	0.0748	0.0782	0.0827	0.0932	0.1077	0.1135	0.1324	0.1337
2L18	0.1480	0.1485	0.1505	0.1539	0.1584	0.1689	0.1833	0.1892	0.2083	0.2097
2L19	0.2778	0.2783	0.2804	0.2839	0.2884	0.2990	0.3136	0.3195	0.3388	0.3402
2L19A	0.3826	0.3832	0.3853	0.3889	0.3935	0.4041	0.4187	0.4246	0.4438	0.4452
2U1	0.4038	0.4044	0.4063	0.4096	0.4138	0.4237	0.4373	0.4427	0.4603	0.4616
2U2	0.4046	0.4051	0.4068	0.4098	0.4136	0.4226	0.4348	0.4397	0.4552	0.4563
2U3	0.4255	0.4260	0.4274	0.4299	0.4332	0.4411	0.4516	0.4557	0.4687	0.4696
2U4	0.4267	0.4269	0.4281	0.4302	0.4330	0.4398	0.4489	0.4524	0.4634	0.4642
2U5	0.4223	0.4224	0.4232	0.4248	0.4269	0.4323	0.4394	0.4422	0.4505	0.4511
2U6	0.4183	0.4184	0.4188	0.4198	0.4213	0.4253	0.4306	0.4325	0.4385	0.4388
2U7	0.4196	0.4195	0.4194	0.4197	0.4204	0.4225	0.4254	0.4265	0.4296	0.4297
2U8	0.4112	0.4110	0.4105	0.4100	0.4098	0.4102	0.4110	0.4112	0.4117	0.4117
2U8A	0.4109	0.4107	0.4102	0.4098	0.4096	0.4099	0.4107	0.4109	0.4114	0.4114

Table F.17 continued

INTEGRATED MOVEMENT AT SEGMENT CL (4 MINUTE READINGS)

AUC 4 LOAD NUMBER	AVG VW MOVEMENT INCHES	AVG VW MOVEMENT INCHES	AVG VW MOVEMENT INCHES	AVG VW MOVEMENT INCHES	AVG VW MOVEMENT INCHES	AVG VW MOVEMENT INCHES	AVG VW MOVEMENT INCHES	AVG VW MOVEMENT INCHES
CL.ELEV.	48.23	39.25	31.75	25.00	16.75	7.25	1.25	-4.25
2L0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2L1	0.0000	0.0000	0.0000	0.0000	0.0001	0.0005	0.0009	0.0014
2L2	0.0000	0.0000	0.0000	0.0000	0.0003	0.0012	0.0020	0.0032
2L3	0.0000	0.0000	0.0000	0.0000	0.0006	0.0022	0.0035	0.0054
2L4	0.0000	0.0000	0.0000	0.0000	0.0010	0.0032	0.0051	0.0078
2L5	0.0000	0.0000	0.0000	0.0000	0.0014	0.0043	0.0067	0.0102
2L6	0.0020	0.0025	0.0035	0.0047	0.0069	0.0104	0.0134	0.0176
2L7	0.0018	0.0024	0.0034	0.0049	0.0075	0.0117	0.0153	0.0202
2L8	0.0011	0.0018	0.0032	0.0049	0.0079	0.0128	0.0170	0.0226
2L9	0.0058	0.0066	0.0081	0.0101	0.0135	0.0191	0.0238	0.0301
2L10	0.0056	0.0065	0.0081	0.0103	0.0141	0.0204	0.0257	0.0326
2L11	0.0056	0.0066	0.0084	0.0109	0.0151	0.0221	0.0278	0.0355
2L12	0.0049	0.0059	0.0079	0.0106	0.0153	0.0229	0.0292	0.0374
2L13	0.0098	0.0109	0.0131	0.0160	0.0212	0.0297	0.0367	0.0457
2L14	0.0140	0.0151	0.0174	0.0206	0.0264	0.0359	0.0437	0.0535
2L15	0.0187	0.0199	0.0223	0.0257	0.0321	0.0427	0.0514	0.0621
2L16	0.0331	0.0343	0.0368	0.0405	0.0474	0.0591	0.0686	0.0802
2L17	0.0726	0.0738	0.0765	0.0805	0.0880	0.1004	0.1106	0.1229
2L18	0.1482	0.1495	0.1522	0.1561	0.1636	0.1761	0.1863	0.1988
2L19	0.2780	0.2793	0.2821	0.2862	0.2937	0.3063	0.3165	0.3292
2L19A	0.3829	0.3842	0.3871	0.3912	0.3988	0.4114	0.4216	0.4342
2U1	0.4041	0.4053	0.4080	0.4117	0.4188	0.4305	0.4400	0.4515
2U2	0.4049	0.4060	0.4083	0.4117	0.4181	0.4287	0.4373	0.4475
2U3	0.4258	0.4267	0.4287	0.4316	0.4371	0.4463	0.4536	0.4622
2U4	0.4268	0.4275	0.4291	0.4316	0.4364	0.4444	0.4507	0.4579
2U5	0.4224	0.4228	0.4240	0.4258	0.4296	0.4359	0.4408	0.4463
2U6	0.4183	0.4186	0.4193	0.4206	0.4233	0.4279	0.4316	0.4355
2U7	0.4196	0.4195	0.4196	0.4200	0.4214	0.4240	0.4260	0.4280
2U8	0.4111	0.4107	0.4103	0.4099	0.4100	0.4106	0.4111	0.4115
2U8A	0.4108	0.4105	0.4100	0.4097	0.4097	0.4103	0.4108	0.4111

Table F.17 continued

AVERAGE SEGMENT SHEAR STRESS (4 MINUTE READINGS)

AUC 4 LOAD NUMBER CL.ELEV.	AVG VW SHEAR TSF 48.23	AVG VW SHEAR TSF 39.25	AVG VW SHEAR TSF 31.75	AVG VW SHEAR TSF 25.00	AVG VW SHEAR TSF 16.75	AVG VW SHEAR TSF 7.25	AVG VW SHEAR TSF 1.25	AVG VW SHEAR TSF -4.25
2L0	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016
2L1	-0.013	0.006	-0.021	-0.012	-0.001	0.017	0.034	0.038
2L2	-0.008	0.014	0.002	0.006	0.006	0.070	0.069	0.100
2L3	0.000	0.040	0.009	-0.003	0.043	0.105	0.129	0.175
2L4	0.011	0.057	0.017	0.013	0.067	0.141	0.183	0.277
2L5	0.024	0.064	0.046	0.021	0.092	0.180	0.217	0.357
2L6	0.035	0.089	0.056	0.033	0.118	0.212	0.258	0.423
2L7	0.038	0.107	0.079	0.041	0.150	0.254	0.271	0.511
2L8	0.055	0.127	0.081	0.059	0.176	0.283	0.311	0.583
2L9	0.062	0.146	0.109	0.058	0.204	0.312	0.355	0.644
2L10	0.074	0.166	0.113	0.072	0.232	0.345	0.363	0.716
2L11	0.082	0.180	0.138	0.085	0.259	0.373	0.404	0.770
2L12	0.083	0.212	0.152	0.092	0.287	0.397	0.427	0.822
2L13	0.084	0.242	0.177	0.099	0.337	0.430	0.448	0.859
2L14	0.085	0.249	0.232	0.112	0.393	0.461	0.471	0.904
2L15	0.085	0.269	0.263	0.147	0.460	0.481	0.492	0.939
2L16	0.085	0.282	0.287	0.185	0.531	0.512	0.456	0.982
2L17	0.087	0.307	0.316	0.210	0.556	0.535	0.523	1.034
2L18	0.090	0.317	0.291	0.218	0.552	0.563	0.508	1.055
2L19	0.096	0.326	0.299	0.206	0.550	0.558	0.554	1.075
2L19A	0.099	0.337	0.294	0.199	0.545	0.561	0.537	1.068
2U1	0.094	0.302	0.272	0.185	0.516	0.513	0.422	0.958
2U2	0.082	0.265	0.249	0.175	0.475	0.421	0.377	0.791
2U3	0.063	0.224	0.216	0.161	0.416	0.333	0.266	0.641
2U4	0.037	0.199	0.187	0.150	0.363	0.268	0.185	0.521
2U5	0.010	0.149	0.152	0.130	0.291	0.193	0.090	0.365
2U6	-0.009	0.101	0.101	0.105	0.228	0.126	0.043	0.213
2U7	-0.043	0.031	0.061	0.079	0.143	0.060	0.001	0.035
2U8	-0.061	-0.052	0.012	0.060	0.065	-0.008	-0.032	-0.063
2U8A	-0.061	-0.054	0.012	0.061	0.062	-0.006	-0.032	-0.065

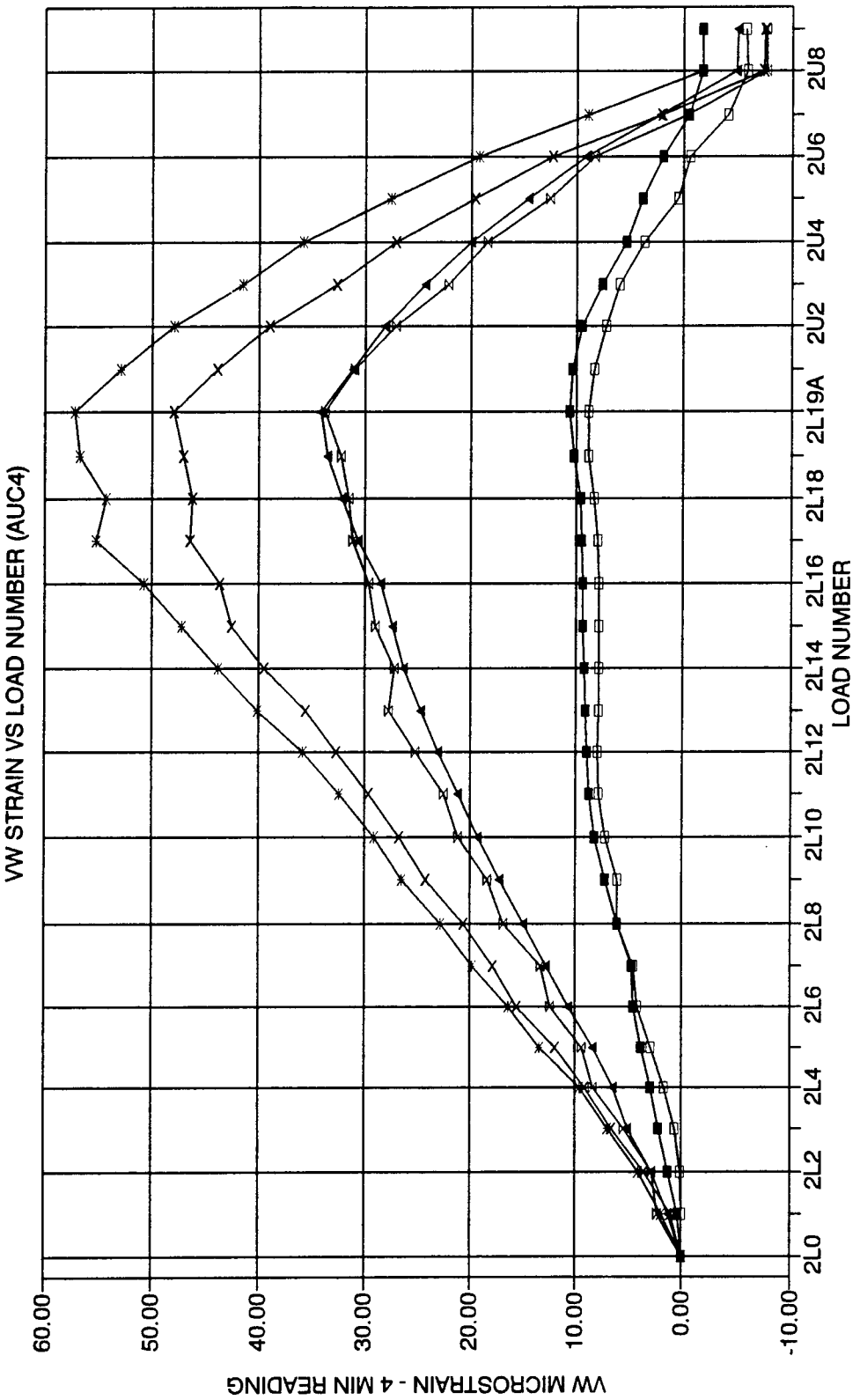

Figure F.83 Strain at Pile Top: Aucilla Load Test 4

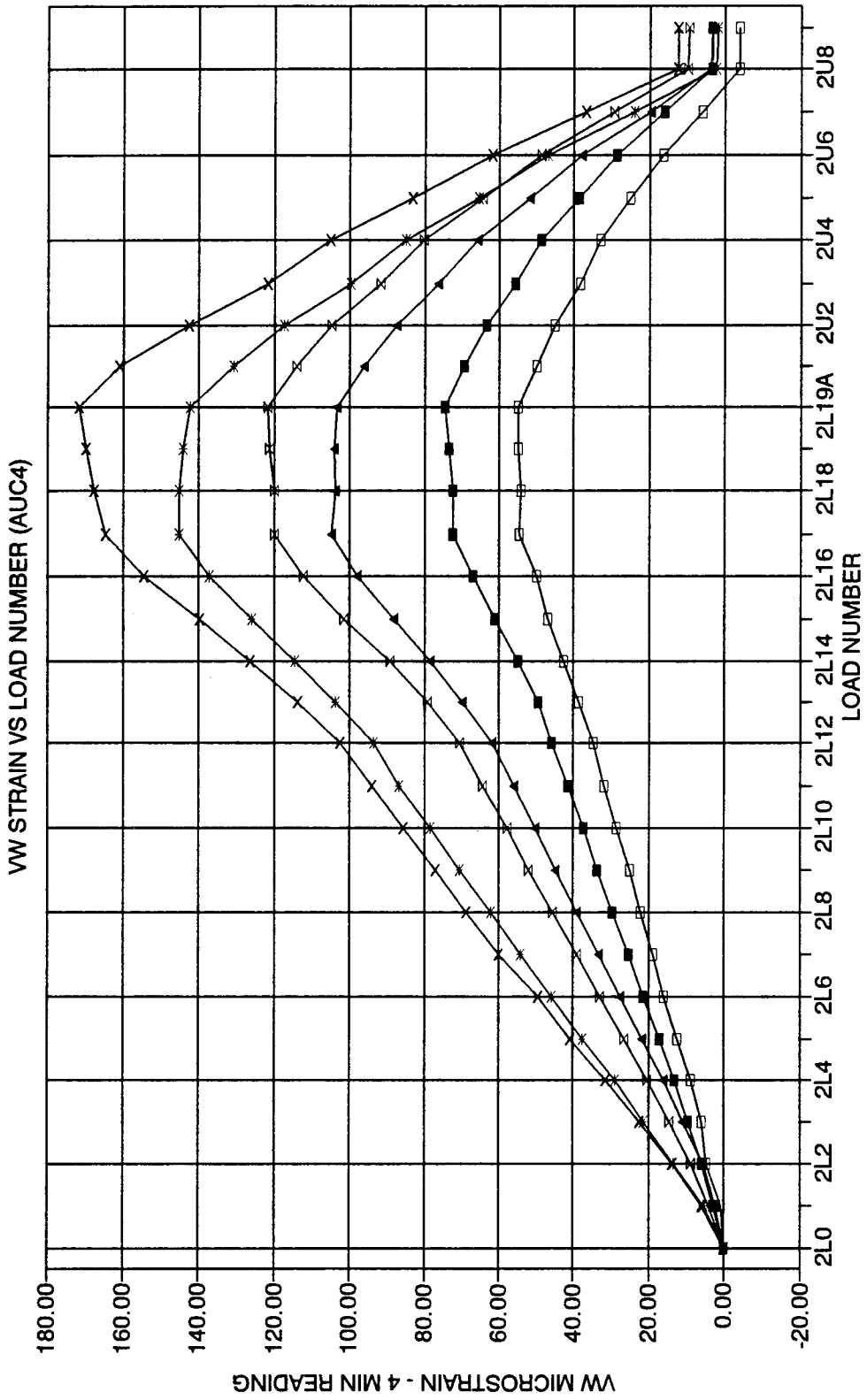

Figure F.84 Strain at Pile Middle: Aucilla Load Test 4

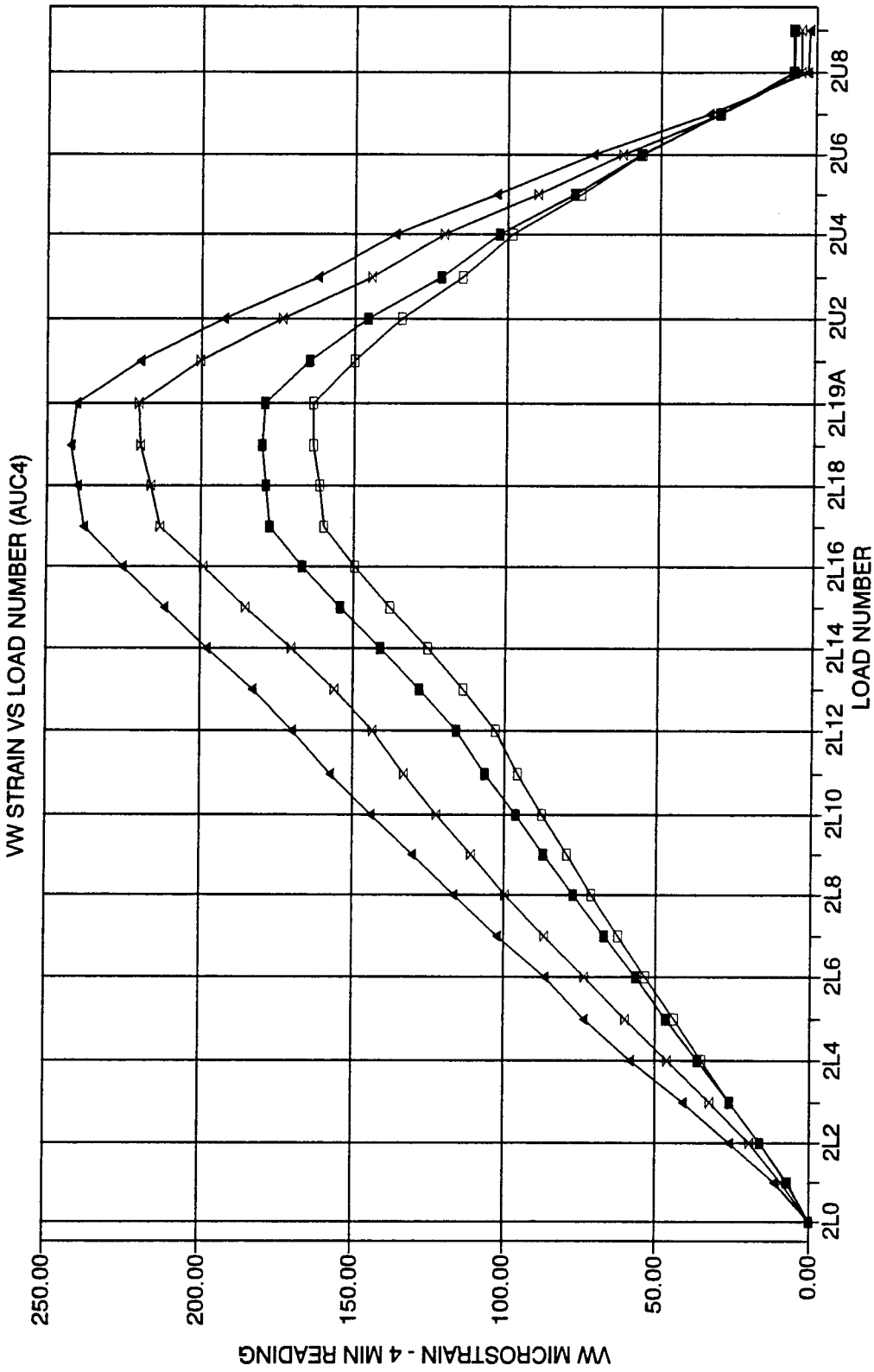

Figure F.85 Strain at Pile Bottom: Aucilla Load Test 4

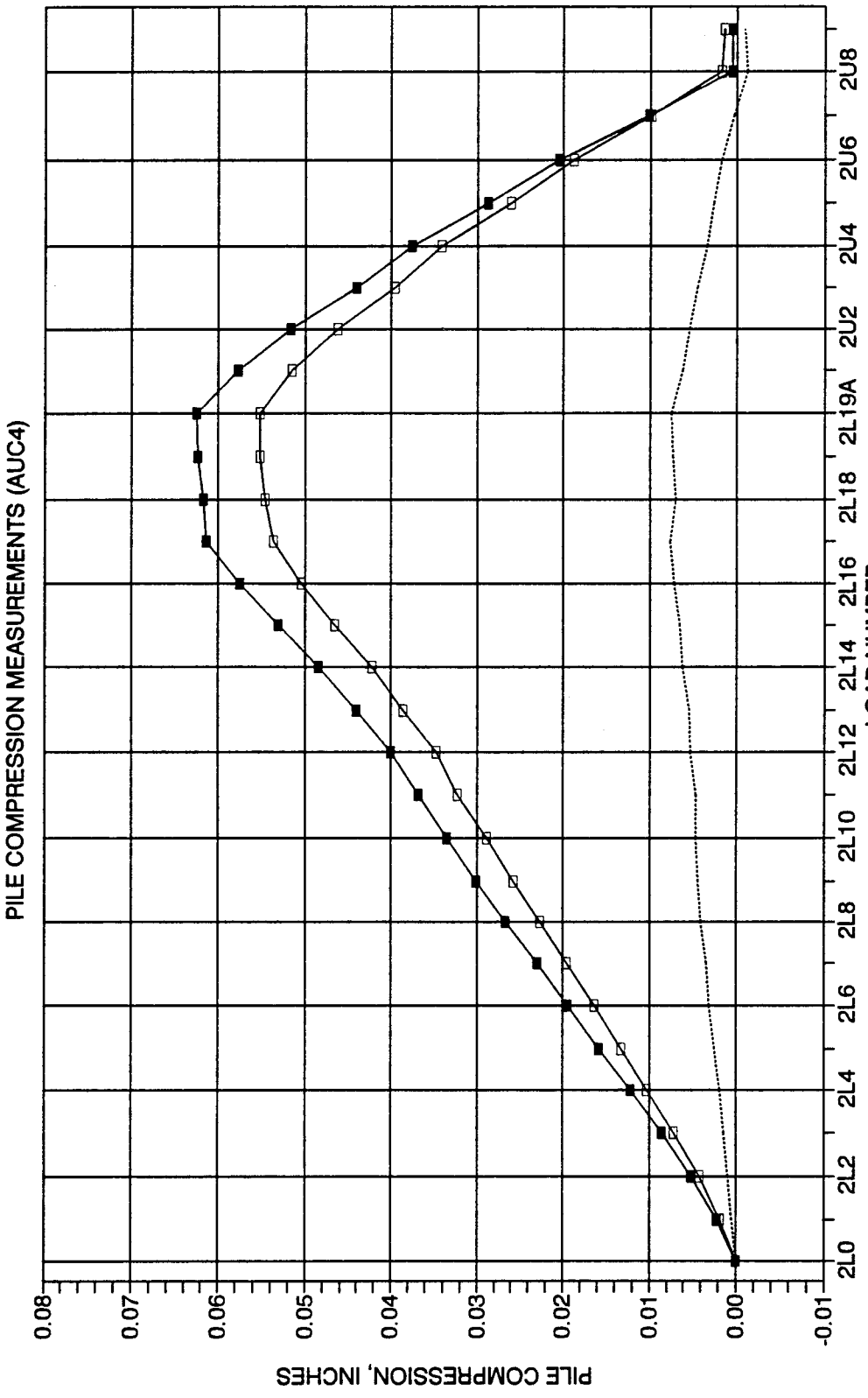

Figure F.86 Pile Compression Measurements: Aucilla Load Test 4

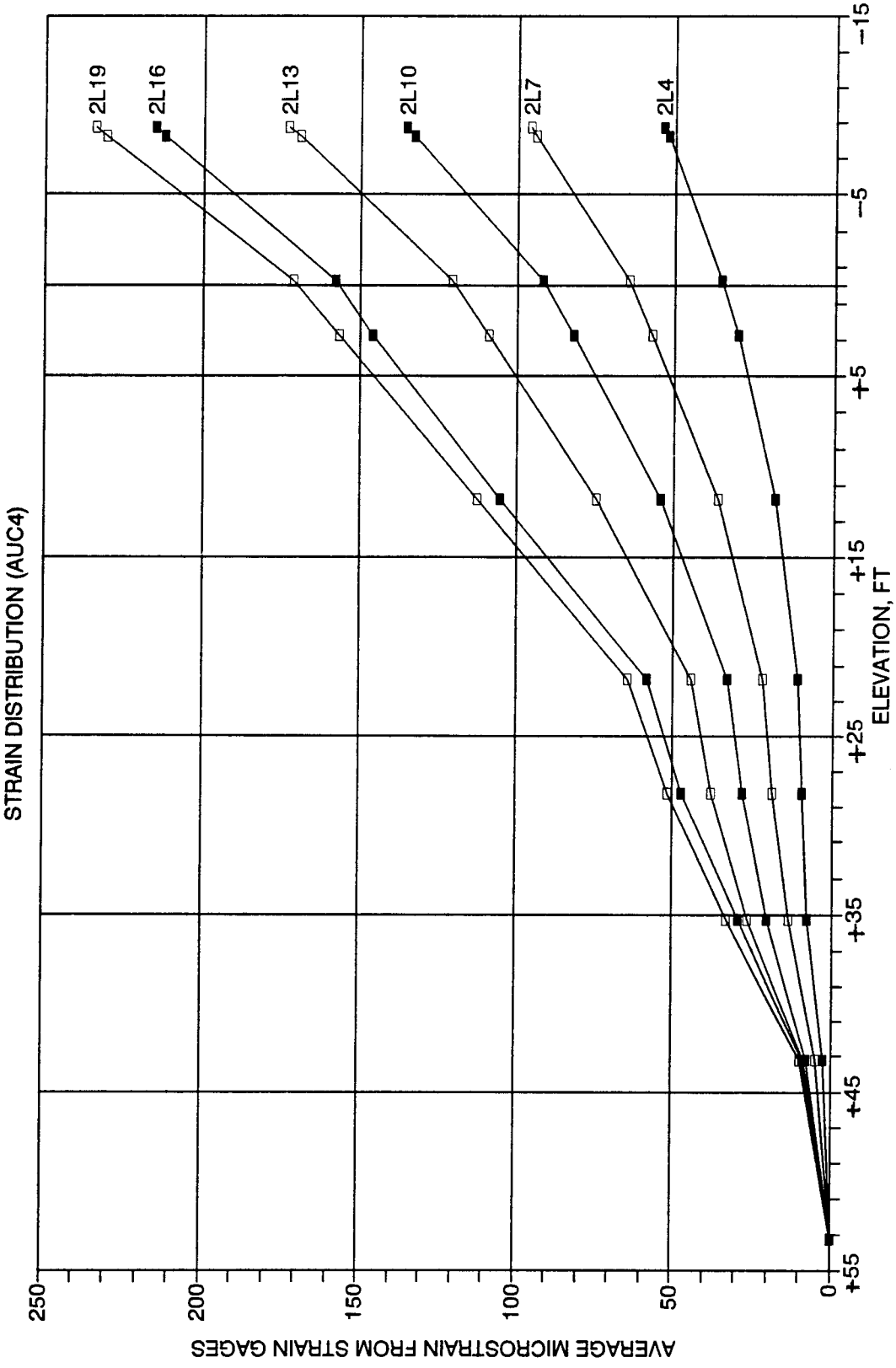

Figure F.87 Pile Straon Distribution: Aucilla Load Test 4

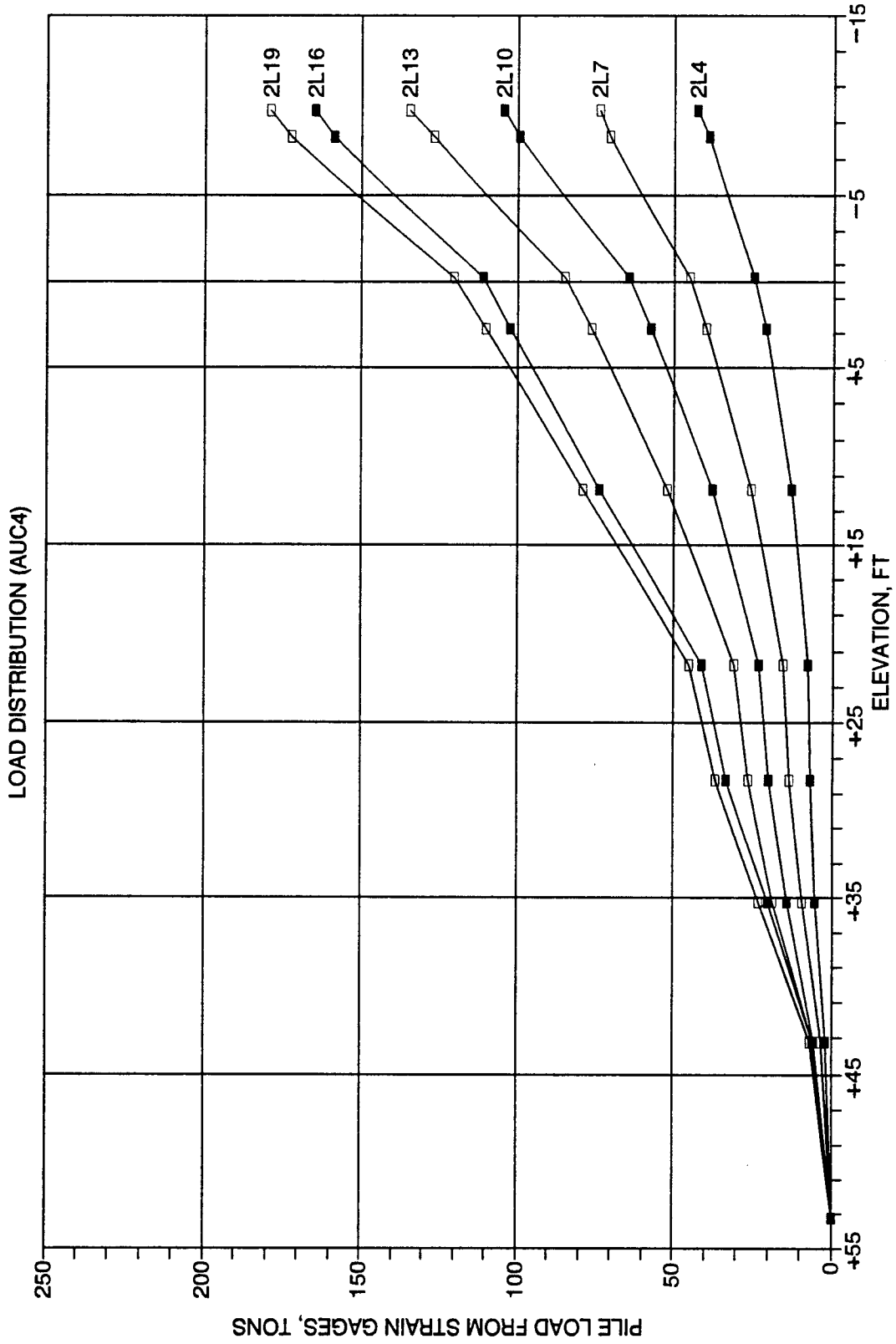

Figure F.88 Pile Load Distribution: Aucilla Load Test 4

Table F.18 Strain Analyses: Aucilla Load Test 5

VIBRATING WIRE INSTRUMENT READINGS - STRAIN

AUC 5 LOAD NUMBER	TIME	VW STRN FREQ^2 KHZ^2 13	VW STRN FREQ^2 KHZ^2 14	VW STRN FREQ^2 KHZ^2 15	VW STRN FREQ^2 KHZ^2 16	VW STRN FREQ^2 KHZ^2 3	VW STRN FREQ^2 KHZ^2 4	VW STRN FREQ^2 KHZ^2 17	VW STRN FREQ^2 KHZ^2 18	VW STRN FREQ^2 KHZ^2 7	VW STRN FREQ KHZ^2 8	VW STRN FREQ KHZ^2 35	VW STRN FREQ KHZ^2 36	VW STRN FREQ KHZ^2 21	VW STRN FREQ KHZ^2 22	VW STRN FREQ KHZ^2 41	VW STRN FREQ KHZ^2 42
L0	12:10:10	0.73666	0.72263	0.69325	0.70461	0.70252	0.73078	0.74210	0.65405	0.78760	0.65227	0.72721	0.69255	0.68851	0.67538	0.86800	0.78864
L0	12:13:45	0.73667	0.72261	0.69323	0.70458	0.70249	0.73078	0.74213	0.65406	0.78762	0.65227	0.72721	0.69254	0.68851	0.67537	0.86805	0.78864
L0	12:15:20	0.73666	0.72262	0.69324	0.70457	0.70248	0.73077	0.74213	0.65405	0.78762	0.65228	0.72720	0.69252	0.68849	0.67537	0.86808	0.78865
L0	12:16:27	0.73665	0.72261	0.69323	0.70455	0.70249	0.73077	0.74211	0.65405	0.78762	0.65227	0.72720	0.69254	0.68853	0.67537	0.86806	0.78865
L0	12:17:00	0.73665	0.72262	0.69323	0.70458	0.70246	0.73078	0.74211	0.65406	0.78760	0.65227	0.72719	0.69254	0.68853	0.67537	0.86805	0.78865
L0	12:32:00	0.73665	0.72260	0.69321	0.70454	0.70246	0.73077	0.74209	0.65403	0.78761	0.65226	0.72718	0.69252	0.68852	0.67538	0.86811	0.78865
L0	12:43:07	0.73665	0.72260	0.69322	0.70456	0.70248	0.73078	0.74211	0.65405	0.78760	0.65228	0.72719	0.69255	0.68849	0.67537	0.86808	0.78865
L1	12:49:15	0.73655	0.72249	0.69300	0.70420	0.70209	0.73045	0.74178	0.65382	0.78672	0.65169	0.72570	0.69087	0.68692	0.67381	0.86432	0.78620
L1	12:49:48	0.73656	0.72248	0.69300	0.70420	0.70206	0.73045	0.74182	0.65381	0.78671	0.65168	0.72567	0.69088	0.68686	0.67374	0.86425	0.78620
L1	12:50:44	0.73655	0.72247	0.69299	0.70420	0.70207	0.73045	0.74177	0.65381	0.78672	0.65169	0.72566	0.69087	0.68689	0.67374	0.86425	0.78620
L1	12:52:45	0.73656	0.72249	0.69300	0.70421	0.70205	0.73044	0.74176	0.65380	0.78671	0.65168	0.72567	0.69085	0.68692	0.67375	0.86429	0.78621
L2	12:54:47	0.73641	0.72232	0.69258	0.70387	0.70159	0.72981	0.74118	0.65322	0.78576	0.65059	0.72404	0.68926	0.68456	0.67145	0.86016	0.78300
L2	12:55:20	0.73643	0.72235	0.69257	0.70386	0.70158	0.72981	0.74117	0.65321	0.78573	0.65056	0.72401	0.68921	0.68449	0.67145	0.86004	0.78296
L2	12:56:19	0.73643	0.72233	0.69258	0.70384	0.70157	0.72979	0.74116	0.65321	0.78573	0.65055	0.72398	0.68919	0.68449	0.67150	0.85998	0.78295
L2	12:58:17	0.73642	0.72234	0.69260	0.70385	0.70157	0.72979	0.74117	0.65321	0.78571	0.65056	0.72392	0.68915	0.68448	0.67148	0.85993	0.78291
L3	13:00:04	0.73629	0.72227	0.69234	0.70385	0.70128	0.72929	0.74028	0.65263	0.78446	0.64925	0.72137	0.68676	0.68192	0.66889	0.85601	0.77951
L3	13:00:37	0.73630	0.72224	0.69234	0.70384	0.70127	0.72928	0.74028	0.65262	0.78454	0.64924	0.72132	0.68671	0.68186	0.66885	0.85597	0.77950
L3	13:01:40	0.73629	0.72227	0.69232	0.70384	0.70126	0.72926	0.74028	0.65262	0.78457	0.64921	0.72130	0.68672	0.68182	0.66872	0.85591	0.77948
L3	13:03:33	0.73628	0.72227	0.69231	0.70382	0.70125	0.72925	0.74025	0.65260	0.78460	0.64919	0.72126	0.68706	0.68181	0.66866	0.85591	0.77947
L4	13:05:14	0.73615	0.72207	0.69184	0.70324	0.70039	0.72860	0.73934	0.65177	0.78292	0.64766	0.71864	0.68439	0.67902	0.66596	0.85133	0.77588
L4	13:05:47	0.73614	0.72206	0.69184	0.70322	0.70036	0.72863	0.73935	0.65181	0.78287	0.64761	0.71863	0.68432	0.67892	0.66589	0.85128	0.77587
L4	13:06:37	0.73615	0.72208	0.69183	0.70321	0.70034	0.72861	0.73931	0.65180	0.78285	0.64759	0.71862	0.68431	0.67886	0.66585	0.85123	0.77585
L4	13:08:39	0.73614	0.72207	0.69181	0.70317	0.70032	0.72856	0.73928	0.65177	0.78283	0.64757	0.71861	0.68432	0.67885	0.66574	0.85116	0.77582
L5	13:10:12	0.73598	0.72190	0.69143	0.70301	0.69973	0.72792	0.73839	0.65104	0.78156	0.64592	0.71610	0.68215	0.67599	0.66305	0.84708	0.77202
L5	13:10:45	0.73598	0.72192	0.69141	0.70300	0.69971	0.72787	0.73836	0.65102	0.78151	0.64588	0.71608	0.68212	0.67600	0.66305	0.84709	0.77199
L5	13:11:43	0.73598	0.72193	0.69139	0.70299	0.69971	0.72788	0.73834	0.65101	0.78144	0.64584	0.71595	0.68209	0.67593	0.66304	0.84700	0.77199
L5	13:13:44	0.73598	0.72191	0.69136	0.70297	0.69970	0.72783	0.73831	0.65098	0.78140	0.64579	0.71579	0.68204	0.67592	0.66288	0.84693	0.77196
L6	13:15:32	0.73585	0.72189	0.69092	0.70220	0.69876	0.72699	0.73718	0.65016	0.77979	0.64407	0.71328	0.67960	0.67315	0.66016	0.84246	0.76807
L6	13:16:05	0.73585	0.72190	0.69090	0.70218	0.69872	0.72693	0.73716	0.65015	0.77974	0.64402	0.71320	0.67954	0.67310	0.66003	0.84237	0.76802
L6	13:17:03	0.73585	0.72189	0.69090	0.70218	0.69868	0.72691	0.73709	0.65012	0.77969	0.64396	0.71313	0.67947	0.67308	0.65997	0.84234	0.76801
L6	13:19:02	0.73585	0.72188	0.69086	0.70216	0.69864	0.72686	0.73705	0.65010	0.77965	0.64388	0.71304	0.67938	0.67304	0.65990	0.84234	0.76795
L7	13:20:43	0.73571	0.72179	0.69022	0.70142	0.69795	0.72604	0.73595	0.64915	0.77793	0.64208	0.71041	0.67703	0.67015	0.65718	0.83850	0.76417
L7	13:21:16	0.73570	0.72178	0.69018	0.70130	0.69793	0.72602	0.73582	0.64910	0.77789	0.64199	0.71031	0.67696	0.67009	0.65709	0.83835	0.76411
L7	13:22:12	0.73570	0.72178	0.69016	0.70122	0.69792	0.72597	0.73568	0.64908	0.77790	0.64187	0.71022	0.67689	0.67003	0.65704	0.83831	0.76410
L7	13:24:10	0.73571	0.72178	0.69012	0.70117	0.69789	0.72593	0.73575	0.64903	0.77789	0.64183	0.71016	0.67681	0.66997	0.65693	0.83824	0.76404
L8	13:25:49	0.73556	0.72147	0.68977	0.70094	0.69689	0.72491	0.73478	0.64813	0.77613	0.63994	0.70757	0.67424	0.66708	0.65417	0.83427	0.76013
L8	13:26:22	0.73556	0.72152	0.68973	0.70090	0.69696	0.72481	0.73474	0.64810	0.77611	0.63987	0.70748	0.67418	0.66704	0.65411	0.83424	0.76007
L8	13:27:18	0.73555	0.72147	0.68967	0.70085	0.69701	0.72473	0.73468	0.64808	0.77606	0.63978	0.70737	0.67416	0.66698	0.65403	0.83419	0.76006
L8	13:29:22	0.73555	0.72148	0.68962	0.70079	0.69694	0.72467	0.73463	0.64804	0.77597	0.63960	0.70728	0.67407	0.66661	0.65392	0.83401	0.76004
L9	13:31:00	0.73543	0.72136	0.68917	0.70003	0.69602	0.72402	0.73341	0.64699	0.77406	0.63765	0.70447	0.67157	0.66372	0.65100	0.82987	0.75620
L9	13:31:33	0.73543	0.72135	0.68912	0.70000	0.69597	0.72392	0.73337	0.64695	0.77399	0.63755	0.70437	0.67158	0.66370	0.65090	0.82974	0.75611
L9	13:32:30	0.73543	0.72138	0.68909	0.69996	0.69593	0.72384	0.73330	0.64691	0.77392	0.63745	0.70428	0.67147	0.66367	0.65086	0.82974	0.75609
L9	13:34:34	0.73543	0.72135	0.68905	0.69995	0.69587	0.72371	0.73319	0.64685	0.77379	0.63731	0.70419	0.67130	0.66358	0.65082	0.82968	0.75609

Table F.18 continued

VIBRATING WIRE INSTRUMENT READINGS - STRAIN

AUC 5 LOAD NUMBER	TIME	VW STRN FREQ^2 KHZ^2 13	VW STRN FREQ^2 KHZ^2 14	VW STRN FREQ^2 KHZ^2 15	VW STRN FREQ^2 KHZ^2 16	VW STRN FREQ^2 KHZ^2 3	VW STRN FREQ^2 KHZ^2 4	VW STRN FREQ^2 KHZ^2 17	VW STRN FREQ^2 KHZ^2 18	VW STRN FREQ^2 KHZ^2 7	VW STRN FREQ KHZ^2 8	VW STRN FREQ KHZ^2 35	VW STRN FREQ KHZ^2 36	VW STRN FREQ KHZ^2 21	VW STRN FREQ KHZ^2 22	VW STRN FREQ KHZ^2 41	VW STRN FREQ KHZ^2 42
L10	13:36:18	0.73532	0.72126	0.68836	0.69967	0.69500	0.72264	0.73194	0.64587	0.77187	0.63527	0.70145	0.66866	0.66049	0.64800	0.82555	0.75248
L10	13:36:51	0.73532	0.72127	0.68833	0.69963	0.69493	0.72260	0.73190	0.64582	0.77176	0.63517	0.70138	0.66860	0.66044	0.64786	0.82539	0.75240
L10	13:37:44	0.73532	0.72126	0.68836	0.69960	0.69485	0.72256	0.73186	0.64577	0.77168	0.63505	0.70097	0.66845	0.66039	0.64781	0.82533	0.75236
L10	13:39:43	0.73532	0.72126	0.68832	0.69953	0.69473	0.72254	0.73178	0.64570	0.77154	0.63487	0.70094	0.66839	0.66033	0.64778	0.82525	0.75223
L11	13:41:27	0.73516	0.72114	0.68771	0.69840	0.69376	0.72162	0.73042	0.64456	0.76963	0.63274	0.69815	0.66583	0.65709	0.64498	0.82175	0.74837
L11	13:42:00	0.73515	0.72113	0.68766	0.69838	0.69372	0.72155	0.73035	0.64454	0.76953	0.63263	0.69810	0.66576	0.65708	0.64496	0.82171	0.74831
L11	13:42:56	0.73514	0.72113	0.68764	0.69842	0.69367	0.72147	0.73029	0.64450	0.76945	0.63253	0.69799	0.66566	0.65703	0.64489	0.82171	0.74820
L11	13:45:05	0.73514	0.72113	0.68758	0.69850	0.69358	0.72136	0.73019	0.64445	0.76932	0.63235	0.69785	0.66544	0.65687	0.64471	0.82160	0.74816
L12	13:46:42	0.73497	0.72104	0.68680	0.69799	0.69272	0.72001	0.72877	0.64328	0.76735	0.63021	0.69501	0.66289	0.65369	0.64198	0.81764	0.74458
L12	13:47:15	0.73497	0.72103	0.68674	0.69794	0.69266	0.71997	0.72868	0.64321	0.76724	0.63010	0.69489	0.66282	0.65342	0.64189	0.81751	0.74454
L12	13:48:13	0.73497	0.72107	0.68669	0.69789	0.69253	0.71993	0.72862	0.64313	0.76711	0.62990	0.69480	0.66266	0.65335	0.64182	0.81747	0.74454
L12	13:50:12	0.73496	0.72102	0.68665	0.69774	0.69237	0.71989	0.72853	0.64308	0.76696	0.62980	0.69468	0.66267	0.65326	0.64170	0.81735	0.74447
L13	13:51:42	0.73479	0.72092	0.68602	0.69709	0.69122	0.71907	0.72715	0.64184	0.76501	0.62757	0.69184	0.66009	0.65030	0.63897	0.81351	0.74108
L13	13:52:15	0.73478	0.72091	0.68598	0.69704	0.69123	0.71874	0.72705	0.64175	0.76484	0.62742	0.69171	0.65999	0.65018	0.63884	0.81336	0.74102
L13	13:53:18	0.73480	0.72090	0.68594	0.69695	0.69119	0.71848	0.72694	0.64166	0.76468	0.62725	0.69159	0.65994	0.65002	0.63875	0.81321	0.74088
L13	13:55:15	0.73478	0.72086	0.68587	0.69683	0.69116	0.71843	0.72661	0.64161	0.76449	0.62700	0.69138	0.65973	0.64966	0.63858	0.81310	0.74084
L14	13:56:59	0.73450	0.72068	0.68531	0.69605	0.68983	0.71715	0.72541	0.64029	0.76244	0.62477	0.68832	0.65733	0.64674	0.63587	0.80928	0.73737
L14	13:57:32	0.73448	0.72071	0.68526	0.69602	0.68971	0.71718	0.72525	0.64020	0.76234	0.62471	0.68826	0.65727	0.64665	0.63574	0.80918	0.73732
L14	13:58:25	0.73447	0.72070	0.68522	0.69598	0.68966	0.71719	0.72488	0.64013	0.76223	0.62459	0.68819	0.65719	0.64662	0.63579	0.80931	0.73758
L14	14:00:25	0.73447	0.72068	0.68512	0.69589	0.68963	0.71712	0.72490	0.64001	0.76206	0.62431	0.68808	0.65702	0.64644	0.63557	0.80914	0.73740
L15	14:01:57	0.73432	0.72051	0.68431	0.69533	0.68868	0.71601	0.72306	0.63890	0.75997	0.62206	0.68527	0.65447	0.64335	0.63303	0.80515	0.73411
L15	14:02:30	0.73429	0.72047	0.68425	0.69525	0.68863	0.71577	0.72298	0.63876	0.75980	0.62195	0.68518	0.65439	0.64330	0.63301	0.80512	0.73408
L15	14:03:29	0.73430	0.72043	0.68415	0.69511	0.68843	0.71558	0.72300	0.63868	0.75968	0.62178	0.68504	0.65432	0.64314	0.63296	0.80512	0.73420
L15	14:05:27	0.73427	0.72038	0.68405	0.69499	0.68823	0.71548	0.72297	0.63858	0.75959	0.62152	0.68487	0.65424	0.64307	0.63280	0.80501	0.73416
L16	14:07:04	0.73414	0.72019	0.68344	0.69425	0.68711	0.71434	0.72146	0.63725	0.75754	0.61929	0.68216	0.65179	0.64011	0.63016	0.80091	0.73138
L16	14:07:37	0.73413	0.72021	0.68340	0.69412	0.68712	0.71419	0.72145	0.63720	0.75744	0.61921	0.68205	0.65169	0.64000	0.63008	0.80079	0.73146
L16	14:08:33	0.73411	0.72021	0.68336	0.69399	0.68724	0.71409	0.72137	0.63717	0.75731	0.61905	0.68197	0.65163	0.63994	0.63013	0.80074	0.73147
L16	14:10:32	0.73410	0.72019	0.68330	0.69385	0.68716	0.71397	0.72123	0.63712	0.75711	0.61879	0.68186	0.65147	0.63978	0.63010	0.80057	0.73158
L17	14:12:19	0.73391	0.71999	0.68246	0.69336	0.68582	0.71294	0.71970	0.63578	0.75506	0.61664	0.67923	0.64921	0.63704	0.62778	0.79649	0.72919
L17	14:12:52	0.73391	0.71997	0.68242	0.69328	0.68567	0.71290	0.71945	0.63569	0.75497	0.61644	0.67898	0.64905	0.63683	0.62756	0.79644	0.72927
L17	14:13:50	0.73390	0.71995	0.68234	0.69317	0.68552	0.71277	0.71944	0.63568	0.75487	0.61634	0.67883	0.64889	0.63669	0.62741	0.79628	0.72927
L17	14:15:47	0.73388	0.71988	0.68219	0.69297	0.68567	0.71256	0.71930	0.63553	0.75457	0.61597	0.67848	0.64868	0.63643	0.62726	0.79610	0.72903
L18	14:17:26	0.73363	0.71950	0.68107	0.69206	0.68387	0.71102	0.71708	0.63355	0.75194	0.61330	0.67493	0.64563	0.63282	0.62378	0.79210	0.72431
L18	14:17:59	0.73359	0.71941	0.68096	0.69196	0.68381	0.71104	0.71697	0.63347	0.75193	0.61331	0.67488	0.64557	0.63269	0.62374	0.79220	0.72450
L18	14:18:57	0.73353	0.71934	0.68073	0.69188	0.68376	0.71089	0.71691	0.63329	0.75177	0.61310	0.67472	0.64554	0.63256	0.62357	0.79192	0.72401
L18	14:21:05	0.73344	0.71916	0.68036	0.69176	0.68367	0.71065	0.71675	0.63306	0.75169	0.61300	0.67455	0.64551	0.63242	0.62350	0.79191	0.72389
L19	14:23:25	0.73334	0.71840	0.67952	0.69089	0.68233	0.70909	0.71516	0.63173	0.75009	0.61106	0.67156	0.64315	0.62941	0.62086	0.78816	0.71992
L19	14:23:58	0.73340	0.71839	0.67948	0.69092	0.68238	0.70911	0.71524	0.63190	0.75030	0.61126	0.67166	0.64319	0.62938	0.62074	0.78786	0.71979
L19	14:24:58	0.73355	0.71837	0.67943	0.69098	0.68251	0.70916	0.71537	0.63196	0.75037	0.61135	0.67140	0.64341	0.62940	0.62088	0.78814	0.71965
L19	14:26:54	0.73375	0.71832	0.67932	0.69113	0.68263	0.70911	0.71542	0.63207	0.75065	0.61140	0.67105	0.64379	0.62938	0.62088	0.78828	0.71980
L20	14:29:01	0.73389	0.71820	0.67853	0.69086	0.68218	0.70855	0.71482	0.63145	0.75025	0.61051	0.66968	0.64318	0.62834	0.61977	0.78662	0.71780
L20	14:29:34	0.73396	0.71812	0.67840	0.69086	0.68222	0.70852	0.71482	0.63150	0.75044	0.61056	0.66950	0.64346	0.62842	0.61984	0.78688	0.71761
L20	14:30:34	0.73407	0.71795	0.67831	0.69092	0.68231	0.70849	0.71482	0.63160	0.75058	0.61056	0.66949	0.64377	0.62852	0.61982	0.78690	0.71758

Table F.18 continued

VIBRATING WIRE INSTRUMENT READINGS - STRAIN

AUC 5 LOAD NUMBER	TIME	VW STRN FREQ^2 KHZ^2 13	VW STRN FREQ^2 KHZ^2 14	VW STRN FREQ^2 KHZ^2 15	VW STRN FREQ^2 KHZ^2 16	VW STRN FREQ^2 KHZ^2 3	VW STRN FREQ^2 KHZ^2 4	VW STRN FREQ^2 KHZ^2 17	VW STRN FREQ^2 KHZ^2 18	VW STRN FREQ^2 KHZ^2 7	VW STRN FREQ KHZ^2 8	VW STRN FREQ KHZ^2 35	VW STRN FREQ KHZ^2 36	VW STRN FREQ KHZ^2 21	VW STRN FREQ KHZ^2 22	VW STRN FREQ KHZ^2 41	VW STRN FREQ KHZ^2 42
L20	14:32:29	0.73422	0.71771	0.67797	0.69095	0.68232	0.70852	0.71487	0.63179	0.75098	0.61054	0.66891	0.64431	0.62870	0.61998	0.78739	0.71686
U1	14:37:00	0.73431	0.71784	0.67908	0.69225	0.68401	0.71050	0.71686	0.63359	0.75351	0.61341	0.67327	0.64838	0.63368	0.62465	0.79424	0.72402
U2	14:41:22	0.73459	0.71816	0.67989	0.69275	0.68522	0.71117	0.71833	0.63485	0.75565	0.61572	0.67712	0.65190	0.63849	0.62852	0.80103	0.73054
U3	14:45:35	0.73496	0.71836	0.68056	0.69381	0.68652	0.71255	0.72000	0.63627	0.75817	0.61848	0.68184	0.65583	0.64390	0.63319	0.80830	0.73753
U4	14:49:46	0.73541	0.71903	0.68193	0.69543	0.68817	0.71471	0.72231	0.63816	0.76168	0.62245	0.68793	0.66115	0.65084	0.63926	0.81772	0.74620
U5	14:54:10	0.73590	0.71970	0.68353	0.69698	0.69040	0.71683	0.72498	0.64056	0.76588	0.62696	0.69474	0.66691	0.65833	0.64578	0.82754	0.75523
U6	14:58:25	0.73638	0.72021	0.68516	0.69861	0.69267	0.71910	0.72747	0.64293	0.76987	0.63160	0.70096	0.67274	0.66528	0.65224	0.83705	0.76374
U7	15:02:38	0.73688	0.72077	0.68657	0.69993	0.69470	0.72155	0.73069	0.64527	0.77406	0.63623	0.70729	0.67837	0.67165	0.65849	0.84682	0.77185
U8	15:06:47	0.73750	0.72142	0.68913	0.70245	0.69806	0.72520	0.73529	0.64907	0.78040	0.64320	0.71624	0.68650	0.68080	0.66756	0.86025	0.78285
U9	15:11:01	0.73784	0.72192	0.69025	0.70389	0.69981	0.72713	0.73757	0.65108	0.78372	0.64687	0.72093	0.69066	0.68539	0.67232	0.86659	0.78794
U9A	15:14:15	0.73782	0.72196	0.69041	0.70392	0.69983	0.72720	0.73760	0.65114	0.78386	0.64703	0.72106	0.69070	0.68550	0.67231	0.86680	0.78803
U9A	15:29:15	0.73779	0.72210	0.69062	0.70392	0.69990	0.72743	0.73796	0.65123	0.78407	0.64721	0.72125	0.69084	0.68631	0.67237	0.86718	0.78783
U9A	15:44:15	0.73772	0.72218	0.69072	0.70395	0.69989	0.72758	0.73808	0.65127	0.78414	0.64729	0.72133	0.69085	0.68564	0.67258	0.86739	0.78789
U9A	15:59:15	0.73771	0.72223	0.69080	0.70396	0.69991	0.72774	0.73816	0.65128	0.78419	0.64740	0.72139	0.69089	0.68564	0.67262	0.86747	0.78792
U9A	16:01:28	0.73771	0.72223	0.69081	0.70395	0.69991	0.72773	0.73816	0.65127	0.78420	0.64744	0.72139	0.69086	0.68564	0.67262	0.86750	0.78793

Table F.18 continued

VIBRATING WIRE INSTRUMENT READINGS - TEMPERATURE

AUC 5 LOAD NUMBER	TIME	VW STRN TEMP DEG C 13	VW STRN TEMP DEG C 14	VW STRN TEMP DEG C 15	VW STRN TEMP DEG C 16	VW STRN TEMP DEG C 3	VW STRN TEMP DEG C 4	VW STRN TEMP DEG C 17	VW STRN TEMP DEG C 18	VW STRN TEMP DEG C 7	VW STRN TEMP DEG C 8	VW STRN TEMP DEG C 35	VW STRN TEMP DEG C 36	VW STRN TEMP DEG C 21	VW STRN TEMP DEG C 22	VW STRN TEMP DEG C 41	VW STRN TEMP DEG C 42
L0	12:10:10	19.639	19.340	20.059	20.573	19.759	20.029	19.909	19.579	19.879	19.549	18.717	19.759	19.699	18.128	19.162	19.669
L0	12:13:45	19.639	19.311	20.119	20.573	19.759	20.029	19.879	19.579	19.879	19.579	18.747	19.759	19.669	18.098	19.192	19.669
L0	12:15:20	19.639	19.311	20.089	20.573	19.759	20.029	19.879	19.579	19.879	19.549	18.717	19.759	19.669	18.098	19.162	19.699
L0	12:16:27	19.639	19.340	20.059	20.573	19.759	20.029	19.879	19.609	19.909	19.579	18.717	19.759	19.699	18.098	19.192	19.669
L0	12:17:00	19.639	19.340	20.089	20.573	19.789	20.059	19.879	19.609	19.879	19.579	18.717	19.789	19.699	18.128	19.162	19.699
L0	12:32:00	19.639	19.311	20.089	20.573	19.759	20.029	19.879	19.609	19.879	19.579	18.717	19.759	19.669	18.128	19.162	19.669
L0	12:43:07	19.639	19.311	20.089	20.573	19.759	20.029	19.879	19.579	19.879	19.549	18.717	19.759	19.669	18.098	19.162	19.669
L1	12:49:15	19.639	19.311	20.089	20.603	19.789	20.029	19.879	19.579	19.909	19.579	18.717	19.759	19.669	18.098	19.192	19.669
L1	12:49:48	19.669	19.311	20.089	20.573	19.789	20.029	19.879	19.609	19.879	19.549	18.717	19.759	19.669	18.098	19.162	19.699
L1	12:50:44	19.639	19.311	20.089	20.573	19.759	20.029	19.879	19.579	19.879	19.549	18.717	19.759	19.669	18.128	19.162	19.669
L1	12:52:45	19.639	19.311	20.089	20.573	19.759	20.029	19.909	19.579	19.879	19.549	18.717	19.759	19.669	18.128	19.192	19.699
L2	12:54:47	19.639	19.311	20.089	20.573	19.759	20.029	19.879	19.579	19.879	19.549	18.717	19.759	19.669	18.098	19.162	19.669
L2	12:55:20	19.639	19.311	20.089	20.573	19.759	20.029	19.909	19.579	19.879	19.549	18.717	19.759	19.669	18.098	19.162	19.669
L2	12:56:19	19.639	19.340	20.089	20.573	19.759	20.029	19.879	19.579	19.879	19.549	18.717	19.759	19.669	18.128	19.162	19.669
L2	12:58:17	19.639	19.311	20.089	20.573	19.759	20.029	19.879	19.579	19.879	19.549	18.717	19.759	19.699	18.098	19.162	19.699
L3	13:00:04	19.639	19.311	20.089	20.573	19.759	20.029	19.879	19.579	19.879	19.579	18.717	19.759	19.699	18.128	19.162	19.669
L3	13:00:37	19.639	19.311	20.089	20.573	19.759	20.029	19.879	19.579	19.879	19.579	18.747	19.759	19.699	18.098	19.192	19.669
L3	13:01:40	19.639	19.311	20.089	20.603	19.759	20.029	19.879	19.579	19.909	19.549	18.717	19.759	19.669	18.157	19.162	19.669
L3	13:03:33	19.639	19.311	20.089	20.573	19.759	20.029	19.879	19.579	19.879	19.549	18.747	19.759	19.669	18.098	19.162	19.669
L4	13:05:14	19.639	19.311	20.089	20.573	19.759	20.059	19.879	19.579	19.879	19.579	18.747	19.759	19.699	18.157	19.192	19.669
L4	13:05:47	19.669	19.340	20.089	20.573	19.759	20.029	19.879	19.579	19.879	19.579	18.717	19.759	19.669	18.128	19.162	19.699
L4	13:06:37	19.639	19.311	20.089	20.573	19.759	20.029	19.879	19.579	19.879	19.579	18.717	19.759	19.669	18.128	19.162	19.669
L4	13:08:39	19.639	19.311	20.089	20.573	19.759	20.029	19.879	19.579	19.879	19.579	18.717	19.759	19.669	18.098	19.162	19.699
L5	13:10:12	19.669	19.340	20.089	20.573	19.759	20.089	19.879	19.609	19.879	19.609	18.717	19.789	19.669	18.128	19.162	19.699
L5	13:10:45	19.669	19.311	20.119	20.603	19.789	20.029	19.909	19.579	19.879	19.579	18.717	19.759	19.699	18.128	19.192	19.669
L5	13:11:43	19.639	19.311	20.089	20.573	19.759	20.029	19.879	19.579	19.879	19.579	18.747	19.759	19.669	18.128	19.162	19.669
L5	13:13:44	19.639	19.311	20.089	20.573	19.759	20.029	19.879	19.579	19.879	19.579	18.747	19.759	19.669	18.157	19.162	19.669
L6	13:15:32	19.639	19.311	20.089	20.573	19.759	20.029	19.879	19.579	19.879	19.609	18.717	19.759	19.669	18.128	19.162	19.669
L6	13:16:05	19.639	19.311	20.089	20.573	19.789	20.029	19.879	19.579	19.879	19.579	18.717	19.789	19.699	18.128	19.162	19.669
L6	13:17:03	19.639	19.311	20.089	20.603	19.759	20.029	19.879	19.579	19.879	19.579	18.717	19.759	19.669	18.128	19.162	19.669
L6	13:19:02	19.669	19.311	20.089	20.603	19.789	20.029	19.879	19.609	19.879	19.579	18.717	19.759	19.699	18.128	19.162	19.669
L7	13:20:43	19.639	19.311	20.089	20.573	19.759	20.029	19.879	19.579	19.879	19.579	18.717	19.789	19.669	18.128	19.192	19.669
L7	13:21:16	19.669	19.311	20.089	20.573	19.759	20.029	19.879	19.579	19.879	19.579	18.717	19.789	19.669	18.157	19.162	19.669
L7	13:22:12	19.639	19.311	20.089	20.573	19.759	20.089	19.879	19.579	19.879	19.609	18.717	19.789	19.699	18.157	19.162	19.699
L7	13:24:10	19.639	19.311	20.089	20.573	19.759	20.029	19.879	19.579	19.879	19.579	18.747	19.759	19.669	18.128	19.162	19.669
L8	13:25:49	19.669	19.311	20.089	20.603	19.789	20.029	19.909	19.609	19.909	19.579	18.717	19.789	19.669	18.128	19.162	19.699
L8	13:26:22	19.669	19.311	20.089	20.573	19.759	20.059	19.879	19.609	19.879	19.579	18.717	19.759	19.669	18.128	19.192	19.699
L8	13:27:18	19.639	19.311	20.089	20.603	19.789	20.029	19.909	19.579	19.879	19.579	18.717	19.759	19.669	18.128	19.192	19.669
L8	13:29:22	19.639	19.311	20.089	20.573	19.759	20.029	19.879	19.579	19.879	19.579	18.717	19.759	19.669	18.157	19.162	19.669
L9	13:31:00	19.639	19.311	20.089	20.573	19.759	20.029	19.909	19.579	19.879	19.609	18.717	19.789	19.699	18.157	19.162	19.669
L9	13:31:33	19.639	19.311	20.089	20.573	19.789	20.029	19.879	19.579	19.879	19.579	18.717	19.789	19.669	18.128	19.192	19.669
L9	13:32:30	19.669	19.311	20.089	20.573	19.789	20.029	19.879	19.579	19.909	19.579	18.747	19.759	19.699	18.128	19.192	19.669
L9	13:34:34	19.639	19.311	20.089	20.573	19.759	20.029	19.909	19.579	19.879	19.579	18.717	19.759	19.699	18.128	19.162	19.669

Table F.18 continued

VIBRATING WIRE INSTRUMENT READINGS - TEMPERATURE

AUC 5 LOAD NUMBER	TIME	VW STRN TEMP DEG C 13	VW STRN TEMP DEG C 14	VW STRN TEMP DEG C 15	VW STRN TEMP DEG C 16	VW STRN TEMP DEG C 3	VW STRN TEMP DEG C 4	VW STRN TEMP DEG C 17	VW STRN TEMP DEG C 18	VW STRN TEMP DEG C 7	VW STRN TEMP DEG C 8	VW STRN TEMP DEG C 35	VW STRN TEMP DEG C 36	VW STRN TEMP DEG C 21	VW STRN TEMP DEG C 22	VW STRN TEMP DEG C 41	VW STRN TEMP DEG C 42
L10	13:36:18	19.639	19.340	20.089	20.573	19.759	20.059	19.879	19.579	19.909	19.579	18.747	19.759	19.699	18.157	19.192	19.669
L10	13:36:51	19.639	19.311	20.089	20.603	19.789	20.059	19.909	19.579	19.909	19.609	18.717	19.789	19.729	18.157	19.192	19.699
L10	13:37:44	19.639	19.311	20.089	20.573	19.759	20.059	19.909	19.579	19.879	19.579	18.717	19.759	19.699	18.128	19.162	19.669
L10	13:39:43	19.639	19.340	20.089	20.573	19.759	20.059	19.909	19.579	19.879	19.579	18.747	19.789	19.699	18.128	19.162	19.669
L11	13:41:27	19.639	19.340	20.089	20.573	19.759	20.029	19.909	19.579	19.879	19.579	18.717	19.759	19.669	18.157	19.162	19.669
L11	13:42:00	19.669	19.340	20.119	20.603	19.759	20.059	19.909	19.609	19.879	19.609	18.747	19.759	19.699	18.157	19.162	19.699
L11	13:42:56	19.639	19.340	20.089	20.573	19.759	20.059	19.939	19.579	19.879	19.579	18.717	19.789	19.699	18.128	19.162	19.669
L11	13:45:05	19.639	19.311	20.089	20.573	19.789	20.029	19.909	19.579	19.909	19.579	18.717	19.759	19.699	18.128	19.162	19.669
L12	13:46:42	19.639	19.311	20.089	20.573	19.789	20.029	19.909	19.579	19.879	19.609	18.717	19.759	19.699	18.157	19.162	19.669
L12	13:47:15	19.639	19.340	20.089	20.573	19.759	20.059	19.909	19.579	19.879	19.579	18.717	19.759	19.699	18.128	19.162	19.669
L12	13:48:13	19.669	19.311	20.119	20.603	19.789	20.059	19.909	19.609	19.879	19.579	18.747	19.789	19.699	18.128	19.192	19.699
L12	13:50:12	19.639	19.311	20.089	20.573	19.759	20.059	19.909	19.579	19.909	19.609	18.717	19.789	19.699	18.128	19.162	19.699
L13	13:51:42	19.639	19.311	20.089	20.573	19.759	20.059	19.909	19.579	19.879	19.579	18.747	19.789	19.699	18.128	19.162	19.669
L13	13:52:15	19.639	19.340	20.089	20.573	19.759	20.089	19.939	19.609	19.879	19.609	18.717	19.789	19.699	18.128	19.192	19.699
L13	13:53:18	19.669	19.311	20.089	20.603	19.789	20.059	19.909	19.579	19.909	19.579	18.747	19.789	19.699	18.128	19.192	19.699
L13	13:55:15	19.669	19.311	20.089	20.573	19.789	20.089	19.909	19.609	19.879	19.609	18.717	19.789	19.729	18.157	19.192	19.699
L14	13:56:59	19.639	19.311	20.089	20.603	19.759	20.059	19.909	19.609	19.879	19.579	18.717	19.759	19.699	18.128	19.162	19.669
L14	13:57:32	19.639	19.311	20.089	20.573	19.759	20.089	19.909	19.579	19.879	19.579	18.717	19.789	19.699	18.157	19.162	19.699
L14	13:58:25	19.639	19.340	20.089	20.573	19.759	20.059	19.909	19.579	19.879	19.579	18.717	19.759	19.699	18.157	19.192	19.669
L14	14:00:25	19.639	19.311	20.089	20.573	19.759	20.089	19.909	19.579	19.879	19.579	18.717	19.759	19.699	18.128	19.162	19.669
L15	14:01:57	19.639	19.311	20.089	20.573	19.759	20.059	19.909	19.579	19.879	19.579	18.717	19.759	19.699	18.128	19.162	19.669
L15	14:02:30	19.639	19.311	20.089	20.573	19.759	20.059	19.909	19.579	19.879	19.579	18.717	19.759	19.699	18.128	19.162	19.699
L15	14:03:29	19.639	19.311	20.089	20.573	19.759	20.089	19.909	19.579	19.879	19.579	18.717	19.759	19.699	18.128	19.162	19.699
L15	14:05:27	19.639	19.311	20.089	20.573	19.759	20.059	19.879	19.579	19.879	19.579	18.717	19.759	19.699	18.128	19.162	19.699
L16	14:07:04	19.639	19.311	20.089	20.573	19.759	20.059	19.939	19.579	19.879	19.609	18.717	19.789	19.699	18.157	19.162	19.699
L16	14:07:37	19.639	19.311	20.119	20.573	19.759	20.059	19.909	19.579	19.879	19.579	18.717	19.759	19.699	18.128	19.162	19.699
L16	14:08:33	19.669	19.340	20.119	20.573	19.789	20.089	19.939	19.579	19.879	19.579	18.747	19.759	19.729	18.128	19.162	19.669
L16	14:10:32	19.639	19.311	20.089	20.573	19.759	20.059	19.909	19.579	19.879	19.579	18.717	19.759	19.699	18.128	19.162	19.699
L17	14:12:19	19.639	19.311	20.089	20.573	19.759	20.059	19.909	19.579	19.879	19.579	18.717	19.759	19.699	18.128	19.162	19.699
L17	14:12:52	19.639	19.311	20.089	20.573	19.759	20.089	19.909	19.579	19.909	19.579	18.717	19.789	19.699	18.128	19.162	19.699
L17	14:13:50	19.639	19.311	20.089	20.603	19.759	20.059	19.909	19.609	19.879	19.579	18.717	19.759	19.699	18.128	19.192	19.729
L17	14:15:47	19.639	19.311	20.089	20.573	19.789	20.059	19.909	19.579	19.879	19.579	18.717	19.759	19.699	18.128	19.192	19.729
L18	14:17:26	19.639	19.311	20.089	20.573	19.789	20.059	19.909	19.609	19.909	19.579	18.747	19.759	19.729	18.128	19.162	19.699
L18	14:17:59	19.639	19.311	20.089	20.573	19.759	20.089	19.909	19.579	19.879	19.579	18.747	19.759	19.699	18.157	19.192	19.699
L18	14:18:57	19.639	19.311	20.089	20.573	19.789	20.059	19.939	19.579	19.879	19.579	18.717	19.759	19.699	18.128	19.162	19.699
L18	14:21:05	19.639	19.311	20.089	20.573	19.759	20.059	19.909	19.579	19.879	19.609	18.717	19.759	19.699	18.128	19.192	19.699
L19	14:23:25	19.639	19.311	20.089	20.573	19.759	20.059	19.909	19.579	19.879	19.579	18.717	19.759	19.699	18.128	19.162	19.699
L19	14:23:58	19.639	19.311	20.119	20.573	19.759	20.059	19.909	19.579	19.909	19.579	18.717	19.759	19.699	18.128	19.192	19.699
L19	14:24:58	19.639	19.340	20.119	20.573	19.759	20.059	19.939	19.579	19.879	19.579	18.747	19.789	19.699	18.128	19.192	19.699
L19	14:26:54	19.639	19.311	20.119	20.603	19.759	20.059	19.909	19.579	19.909	19.579	18.717	19.759	19.699	18.128	19.192	19.729
L20	14:29:01	19.639	19.311	20.089	20.573	19.759	20.059	19.909	19.579	19.879	19.579	18.717	19.789	19.699	18.128	19.162	19.699
L20	14:29:34	19.639	19.311	20.089	20.573	19.789	20.059	19.909	19.579	19.879	19.579	18.717	19.759	19.699	18.128	19.162	19.699
L20	14:30:34	19.639	19.311	20.089	20.573	19.759	20.059	19.939	19.579	19.879	19.579	18.717	19.759	19.699	18.157	19.162	19.699

Table F.18 continued

VIBRATING WIRE INSTRUMENT READINGS - TEMPERATURE

AUC 5 LOAD NUMBER	TIME	VW STRN TEMP DEG C 13	VW STRN TEMP DEG C 14	VW STRN TEMP DEG C 15	VW STRN TEMP DEG C 16	VW STRN TEMP DEG C 3	VW STRN TEMP DEG C 4	VW STRN TEMP DEG C 17	VW STRN TEMP DEG C 18	VW STRN TEMP DEG C 7	VW STRN TEMP DEG C 8	VW STRN TEMP DEG C 35	VW STRN TEMP DEG C 36	VW STRN TEMP DEG C 21	VW STRN TEMP DEG C 22	VW STRN TEMP DEG C 41	VW STRN TEMP DEG C 42
L20	14:32:29	19.639	19.311	20.089	20.573	19.759	20.059	19.909	19.579	19.879	19.579	18.717	19.789	19.699	18.128	19.162	19.729
U1	14:37:00	19.639	19.311	20.089	20.573	19.759	20.059	19.909	19.609	19.879	19.579	18.717	19.789	19.729	18.128	19.162	19.729
U2	14:41:22	19.639	19.311	20.089	20.573	19.759	20.059	19.909	19.579	19.879	19.609	18.717	19.759	19.699	18.128	19.162	19.699
U3	14:45:35	19.639	19.311	20.119	20.573	19.759	20.059	19.909	19.609	19.879	19.579	18.717	19.789	19.699	18.157	19.192	19.699
U4	14:49:46	19.639	19.311	20.119	20.573	19.759	20.059	19.909	19.579	19.909	19.579	18.717	19.759	19.669	18.128	19.162	19.699
U5	14:54:10	19.639	19.281	20.089	20.573	19.759	20.029	19.879	19.579	19.909	19.579	18.717	19.759	19.699	18.128	19.162	19.669
U6	14:58:25	19.639	19.340	20.119	20.573	19.789	20.059	19.879	19.579	19.879	19.609	18.747	19.759	19.669	18.157	19.192	19.729
U7	15:02:38	19.639	19.311	20.089	20.573	19.759	20.029	19.879	19.579	19.879	19.579	18.717	19.759	19.669	18.098	19.162	19.669
U8	15:06:47	19.639	19.311	20.089	20.573	19.759	20.029	19.879	19.579	19.879	19.579	18.717	19.759	19.669	18.128	19.162	19.699
U9	15:11:01	19.639	19.311	20.089	20.573	19.789	20.029	19.879	19.579	19.879	19.579	18.717	19.759	19.669	18.098	19.162	19.699
U9A	15:14:15	19.609	19.311	20.089	20.573	19.759	20.059	19.879	19.579	19.879	19.549	18.717	19.759	19.669	18.128	19.162	19.699
U9A	15:29:15	19.609	19.281	20.089	20.573	19.759	20.029	19.879	19.579	19.879	19.549	18.717	19.759	19.699	18.098	19.162	19.669
U9A	15:44:15	19.609	19.281	20.089	20.603	19.759	20.029	19.879	19.579	19.879	19.549	18.717	19.759	19.669	18.128	19.162	19.669
U9A	15:59:15	19.609	19.281	20.059	20.573	19.759	20.029	19.879	19.579	19.909	19.549	18.747	19.789	19.699	18.098	19.162	19.669
U9A	16:01:28	19.609	19.281	20.089	20.603	19.759	20.059	19.909	19.609	19.879	19.549	18.717	19.789	19.669	18.098	19.162	19.669

Table F.18

VIBRATING WIRE CALCULATED STRAIN

AUC 5 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 13	VW STRN MICRO STRAIN 14	VW STRN MICRO STRAIN 15	VW STRN MICRO STRAIN 16	VW STRN MICRO STRAIN 3	VW STRN MICRO STRAIN 4	VW STRN MICRO STRAIN 17	VW STRN MICRO STRAIN 18	VW STRN MICRO STRAIN 7	VW STRN MICRO STRAIN 8	VW STRN MICRO STRAIN 35	VW STRN MICRO STRAIN 36	VW STRN MICRO STRAIN 21	VW STRN MICRO STRAIN 22	VW STRN MICRO STRAIN 41	VW STRN MICRO STRAIN 42
L0	12:10:10	-0.0	-0.1	-0.1	-0.2	-0.1	0.0	-0.0	0.0	0.0	0.0	-0.1	0.0	-0.1	-0.1	0.3	0.0
L0	12:13:45	-0.1	-0.0	-0.1	-0.1	-0.0	0.0	-0.1	-0.0	-0.1	-0.0	-0.1	0.0	-0.1	0.0	0.1	0.0
L0	12:15:20	-0.0	-0.1	-0.1	-0.0	0.0	0.0	-0.1	0.0	-0.1	0.0	-0.0	0.1	0.0	0.0	0.0	-0.0
L0	12:16:27	0.0	-0.1	0.0	0.0	-0.0	0.0	0.0	-0.0	-0.1	-0.0	-0.0	0.0	-0.2	0.0	0.0	0.0
L0	12:17:00	0.0	-0.1	-0.0	-0.1	0.0	-0.0	0.0	-0.1	0.0	-0.0	0.0	-0.0	-0.2	-0.0	0.1	-0.0
L0	12:32:00	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.0	-0.0	0.0	0.0	0.1	-0.1	-0.1	-0.1	0.0
L0	12:43:07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
L1	12:49:15	0.3	0.4	0.7	1.2	1.2	1.1	1.1	0.8	2.9	1.9	4.9	5.6	5.2	5.2	12.4	8.1
L1	12:49:48	0.3	0.4	0.7	1.2	1.3	1.1	1.0	0.8	2.9	2.0	5.0	5.5	5.4	5.4	12.7	8.1
L1	12:50:44	0.3	0.4	0.8	1.2	1.4	1.1	1.1	0.8	2.9	1.9	5.1	5.6	5.3	5.3	12.7	8.1
L1	12:52:45	0.3	0.4	0.7	1.2	1.4	1.1	1.1	0.8	2.9	2.0	5.0	5.6	5.2	5.3	12.5	8.0
L2	12:54:47	0.8	0.9	2.1	2.3	2.9	3.2	3.1	2.7	6.1	5.6	10.4	10.9	13.0	13.0	26.2	18.7
L2	12:55:20	0.7	0.8	2.1	2.3	3.0	3.2	3.1	2.8	6.2	5.7	10.5	11.0	13.2	13.0	26.6	18.8
L2	12:56:19	0.7	0.9	2.1	2.4	3.0	3.3	3.1	2.8	6.2	5.7	10.6	11.1	13.2	12.7	26.8	18.8
L2	12:58:17	0.8	0.9	2.0	2.3	3.0	3.3	3.1	2.8	6.2	5.7	10.8	11.2	13.2	12.9	26.9	18.9
L3	13:00:04	1.2	1.1	2.9	2.3	4.0	4.9	6.0	4.7	10.4	10.0	19.2	19.1	21.7	21.4	39.9	30.2
L3	13:00:37	1.2	1.2	2.9	2.4	4.0	5.0	6.0	4.7	10.1	10.0	19.4	19.3	21.9	21.5	40.0	30.2
L3	13:01:40	1.2	1.1	3.0	2.3	4.0	5.0	6.0	4.7	10.0	10.1	19.5	19.3	22.0	21.9	40.2	30.3
L3	13:03:33	1.2	1.1	3.0	2.4	4.1	5.1	6.1	4.8	9.9	10.2	19.6	18.1	22.1	22.2	40.2	30.3
L4	13:05:14	1.7	1.8	4.6	4.4	6.9	7.2	9.2	7.5	15.5	15.2	28.2	27.0	31.2	31.0	55.3	42.2
L4	13:05:47	1.6	1.7	4.6	4.4	7.0	7.1	9.1	7.4	15.6	15.4	28.3	27.2	31.6	31.3	55.5	42.2
L4	13:06:37	1.7	1.7	4.6	4.5	7.1	7.2	9.3	7.4	15.7	15.5	28.3	27.2	31.8	31.4	55.7	42.3
L4	13:08:39	1.7	1.8	4.7	4.6	7.1	7.3	9.4	7.5	15.8	15.5	28.3	27.2	31.9	31.8	55.9	42.4
L5	13:10:12	2.2	2.3	5.9	5.1	9.1	9.4	12.3	9.9	20.0	20.9	36.6	34.3	41.3	40.7	69.4	54.9
L5	13:10:45	2.2	2.2	5.9	5.1	9.1	9.6	12.4	10.0	20.1	21.1	36.7	34.5	41.2	40.7	69.3	55.0
L5	13:11:43	2.2	2.2	6.0	5.2	9.2	9.6	12.5	10.0	20.4	21.2	37.1	34.6	41.5	40.7	69.6	55.0
L5	13:13:44	2.2	2.3	6.1	5.3	9.2	9.7	12.6	10.1	20.5	21.4	37.6	34.7	41.5	41.2	69.9	55.1
L6	13:15:32	2.6	2.3	7.6	7.8	12.3	12.5	16.3	12.9	25.8	27.0	46.0	42.8	50.7	50.2	84.6	68.0
L6	13:16:05	2.6	2.3	7.7	7.9	12.4	12.7	16.4	12.9	26.0	27.3	46.2	42.9	50.8	50.6	84.9	68.2
L6	13:17:03	2.6	2.3	7.7	7.8	12.6	12.8	16.6	13.0	26.1	27.5	46.5	43.2	50.9	50.8	85.0	68.2
L6	13:19:02	2.6	2.4	7.8	7.9	12.6	13.0	16.7	13.0	26.3	27.7	46.8	43.5	51.0	51.1	85.0	68.4
L7	13:20:43	3.1	2.7	9.9	10.4	15.0	15.7	20.4	16.2	31.9	33.7	55.4	51.2	60.6	60.1	97.7	80.9
L7	13:21:16	3.1	2.7	10.0	10.8	15.0	15.7	20.8	16.4	32.1	34.0	55.8	51.5	60.8	60.3	98.2	81.1
L7	13:22:12	3.1	2.7	10.1	11.0	15.1	15.8	21.2	16.4	32.0	34.3	56.1	51.7	61.0	60.5	98.4	81.1
L7	13:24:10	3.1	2.7	10.2	11.2	15.2	16.0	21.0	16.6	32.1	34.5	56.2	52.0	61.2	60.9	98.6	81.3
L8	13:25:49	3.6	3.7	11.4	11.9	18.4	19.4	24.2	19.5	37.9	40.7	64.8	60.5	70.7	70.0	111.7	94.2
L8	13:26:22	3.6	3.6	11.5	12.1	18.2	19.7	24.4	19.6	38.0	41.0	65.1	60.7	70.9	70.2	111.8	94.4
L8	13:27:18	3.6	3.7	11.7	12.2	18.0	20.0	24.5	19.7	38.1	41.3	65.5	60.8	71.1	70.5	111.9	94.5
L8	13:29:22	3.6	3.7	11.9	12.5	18.3	20.2	24.7	19.9	38.4	41.9	65.8	61.1	72.3	70.8	112.6	94.5
L9	13:31:00	4.0	4.1	13.4	15.0	21.3	22.3	28.7	23.3	44.7	48.3	75.1	69.3	81.8	80.4	126.2	107.2
L9	13:31:33	4.0	4.1	13.5	15.1	21.5	22.7	28.9	23.5	45.0	48.6	75.4	69.2	81.9	80.8	126.6	107.5
L9	13:32:30	4.0	4.0	13.6	15.2	21.6	22.9	29.1	23.6	45.2	49.0	75.7	69.6	82.0	80.9	126.6	107.6
L9	13:34:34	4.0	4.1	13.8	15.2	21.8	23.4	29.4	23.8	45.6	49.4	76.0	70.2	82.3	81.1	126.9	107.6

Table F.18 continued

VIBRATING WIRE CALCULATED STRAIN

AUC 5 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 13	VW STRN MICRO STRAIN 14	VW STRN MICRO STRAIN 15	VW STRN MICRO STRAIN 16	VW STRN MICRO STRAIN 3	VW STRN MICRO STRAIN 4	VW STRN MICRO STRAIN 17	VW STRN MICRO STRAIN 18	VW STRN MICRO STRAIN 7	VW STRN MICRO STRAIN 8	VW STRN MICRO STRAIN 35	VW STRN MICRO STRAIN 36	VW STRN MICRO STRAIN 21	VW STRN MICRO STRAIN 22	VW STRN MICRO STRAIN 41	VW STRN MICRO STRAIN 42
L10	13:36:18	4.4	4.4	16.1	16.2	24.7	26.9	33.6	27.0	51.9	56.2	85.0	78.9	92.5	90.4	140.5	119.5
L10	13:36:51	4.4	4.4	16.2	16.2	24.9	27.0	33.7	27.2	52.3	56.5	85.3	79.1	92.6	90.8	141.0	119.7
L10	13:37:44	4.4	4.4	16.1	16.4	25.2	27.1	33.8	27.4	52.6	56.9	86.6	79.6	92.8	91.0	141.2	119.9
L10	13:39:43	4.4	4.4	16.2	16.6	25.6	27.2	34.1	27.6	53.1	57.5	86.7	79.8	93.0	91.1	141.5	120.3
L11	13:41:27	4.9	4.8	18.2	20.4	28.8	30.3	38.6	31.4	59.4	64.5	95.9	88.3	103.7	100.3	153.1	133.1
L11	13:42:00	4.9	4.8	18.3	20.4	28.9	30.5	38.8	31.4	59.7	64.8	96.1	88.5	103.7	100.4	153.2	133.2
L11	13:42:56	5.0	4.8	18.4	20.3	29.1	30.7	39.0	31.6	60.0	65.2	96.5	88.8	103.9	100.7	153.2	133.6
L11	13:45:05	5.0	4.9	18.6	20.0	29.4	31.1	39.3	31.7	60.4	65.8	96.9	89.6	104.4	101.3	153.6	133.8
L12	13:46:42	5.6	5.2	21.2	21.7	32.2	35.6	44.0	35.6	66.9	72.8	106.3	98.0	114.9	110.2	166.7	145.6
L12	13:47:15	5.6	5.1	21.4	21.9	32.4	35.7	44.3	35.8	67.3	73.2	106.7	98.2	115.8	110.6	167.1	145.7
L12	13:48:13	5.5	5.1	21.5	22.0	32.8	35.8	44.5	36.0	67.7	73.9	107.0	98.7	116.1	110.8	167.2	145.7
L12	13:50:12	5.6	5.2	21.7	22.5	33.4	35.9	44.8	36.2	68.2	74.2	107.4	98.7	116.4	111.2	167.6	145.9
L13	13:51:42	6.1	5.6	23.8	24.7	37.2	38.7	49.4	40.3	74.6	81.6	116.8	107.2	126.1	120.2	180.3	157.2
L13	13:52:15	6.2	5.5	23.9	24.8	37.2	39.7	49.7	40.6	75.2	82.1	117.2	107.5	126.5	120.7	180.8	157.3
L13	13:53:18	6.1	5.6	24.1	25.1	37.3	40.6	50.1	40.9	75.7	82.7	117.6	107.7	127.1	121.0	181.3	157.8
L13	13:55:15	6.1	5.7	24.3	25.5	37.4	40.7	51.2	41.1	76.4	83.4	118.3	108.4	128.2	121.5	181.6	157.9
L14	13:56:59	7.1	6.3	26.1	28.1	41.8	45.0	55.1	45.4	83.1	90.9	128.4	116.4	137.9	130.5	194.3	169.4
L14	13:57:32	7.2	6.2	26.3	28.2	42.2	44.9	55.7	45.8	83.5	91.1	128.6	116.5	138.2	130.9	194.6	169.6
L14	13:58:25	7.2	6.2	26.4	28.3	42.4	44.9	56.9	46.0	83.8	91.4	128.9	116.8	138.3	130.7	194.1	168.7
L14	14:00:25	7.2	6.3	26.8	28.6	42.5	45.1	56.8	46.4	84.4	92.4	129.2	117.4	138.9	131.5	194.7	169.3
L15	14:01:57	7.7	6.9	29.4	30.5	45.6	48.8	62.9	50.1	91.3	99.8	138.5	125.8	149.1	139.9	207.9	180.2
L15	14:02:30	7.8	7.0	29.6	30.8	45.8	49.6	63.2	50.5	91.9	100.2	138.8	126.1	149.3	139.9	208.0	180.3
L15	14:03:29	7.8	7.2	30.0	31.2	46.4	50.1	63.1	50.8	92.2	100.7	139.3	126.3	149.8	140.1	208.0	179.9
L15	14:05:27	7.9	7.3	30.3	31.6	47.1	50.5	63.2	51.1	92.5	101.6	139.8	126.6	150.0	140.6	208.4	180.0
L16	14:07:04	8.3	8.0	32.3	34.1	50.8	54.3	68.1	55.5	99.3	108.9	148.8	134.6	159.8	149.3	221.9	189.2
L16	14:07:37	8.3	7.9	32.4	34.5	50.7	54.8	68.2	55.7	99.6	109.2	149.1	135.0	160.2	149.6	222.3	188.9
L16	14:08:33	8.4	7.9	32.5	34.9	50.3	55.1	68.4	55.8	100.1	109.8	149.4	135.2	160.3	149.4	222.5	188.9
L16	14:10:32	8.4	8.0	32.8	35.4	50.6	55.5	68.9	55.9	100.7	110.6	149.8	135.7	160.9	149.5	223.1	188.5
L17	14:12:19	9.1	8.6	35.6	37.0	55.0	58.9	74.0	60.4	107.5	117.7	158.5	143.2	170.0	157.2	236.5	196.4
L17	14:12:52	9.1	8.7	35.7	37.3	55.5	59.0	74.8	60.7	107.8	118.4	159.3	143.7	170.6	157.9	236.7	196.2
L17	14:13:50	9.1	8.8	35.9	37.6	56.0	59.5	74.9	60.7	108.1	118.7	159.8	144.3	171.1	158.4	237.2	196.1
L17	14:15:47	9.2	9.0	36.4	38.3	55.5	60.2	75.3	61.2	109.1	119.9	160.9	144.9	172.0	158.9	237.8	196.9
L18	14:17:26	10.0	10.2	40.1	41.3	61.4	65.2	82.7	67.7	117.8	128.8	172.6	155.0	183.9	170.4	251.0	212.5
L18	14:17:59	10.1	10.5	40.5	41.6	61.7	65.1	83.0	68.0	117.9	128.7	172.8	155.2	184.3	170.5	250.7	211.9
L18	14:18:57	10.3	10.8	41.3	41.9	61.8	65.7	83.2	68.6	118.4	129.4	173.4	155.3	184.8	171.1	251.6	213.5
L18	14:21:05	10.6	11.4	42.5	42.3	62.1	66.5	83.8	69.4	118.6	129.7	173.9	155.4	185.2	171.3	251.6	213.9
L19	14:23:25	10.9	13.9	45.3	45.2	66.6	71.6	89.0	73.7	123.9	136.2	183.8	163.2	195.2	180.1	264.1	227.0
L19	14:23:58	10.7	13.9	45.4	45.1	66.4	71.6	88.7	73.2	123.2	135.5	183.5	163.1	195.3	180.5	265.0	227.5
L19	14:24:58	10.2	13.9	45.5	44.9	66.0	71.4	88.3	73.0	123.0	135.2	184.3	162.3	195.2	180.0	264.1	227.9
L19	14:26:54	9.6	14.1	45.9	44.3	65.6	71.6	88.1	72.6	122.0	135.0	185.5	161.1	195.3	180.0	263.6	227.4
L20	14:29:01	9.1	14.5	48.5	45.3	67.1	73.4	90.1	74.7	123.4	138.0	190.0	163.1	198.7	183.7	269.1	234.0
L20	14:29:34	8.9	14.8	49.0	45.3	66.9	73.5	90.1	74.5	122.8	137.8	190.6	162.2	198.4	183.4	268.3	234.7
L20	14:30:34	8.5	15.4	49.3	45.1	66.6	73.6	90.1	74.2	122.3	137.8	190.6	161.2	198.1	183.5	268.2	234.8

Table F.18 continued

VIBRATING WIRE CALCULATED STRAIN

AUC 5 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 13	VW STRN MICRO STRAIN 14	VW STRN MICRO STRAIN 15	VW STRN MICRO STRAIN 16	VW STRN MICRO STRAIN 3	VW STRN MICRO STRAIN 4	VW STRN MICRO STRAIN 17	VW STRN MICRO STRAIN 18	VW STRN MICRO STRAIN 7	VW STRN MICRO STRAIN 8	VW STRN MICRO STRAIN 35	VW STRN MICRO STRAIN 36	VW STRN MICRO STRAIN 21	VW STRN MICRO STRAIN 22	VW STRN MICRO STRAIN 41	VW STRN MICRO STRAIN 42
L20	14:32:29	8.0	16.2	50.4	45.0	66.6	73.5	90.0	73.5	121.0	137.9	192.6	159.3	197.5	183.0	266.6	237.1
U1	14:37:00	7.7	15.7	46.7	40.7	61.0	67.0	83.4	67.6	112.6	128.4	178.2	145.9	181.0	167.5	244.0	213.5
U2	14:41:22	6.8	14.7	44.0	39.0	57.0	64.8	78.5	63.4	105.6	120.7	165.4	134.3	165.2	154.8	221.5	192.0
U3	14:45:35	5.6	14.0	41.8	35.5	52.7	60.2	73.0	58.7	97.2	111.6	149.8	121.3	147.3	139.3	197.5	168.9
U4	14:49:46	4.1	11.8	37.3	30.2	47.3	53.1	65.4	52.5	85.6	98.5	129.7	103.7	124.4	119.3	166.4	140.2
U5	14:54:10	2.5	9.6	32.0	25.0	39.9	46.1	56.6	44.6	71.7	83.6	107.2	84.7	99.6	97.7	133.9	110.4
U6	14:58:25	0.9	7.9	26.6	19.7	32.4	38.6	48.4	36.7	58.6	68.2	86.6	65.5	76.7	76.3	102.5	82.2
U7	15:02:38	-0.8	6.0	22.0	15.3	25.7	30.5	37.7	29.0	44.7	53.0	65.7	46.9	55.6	55.8	70.2	55.5
U8	15:06:47	-2.8	3.9	13.5	7.0	14.6	18.4	22.5	16.5	23.8	30.0	36.2	20.0	25.4	25.8	25.9	19.1
U9	15:11:01	-3.9	2.2	9.8	2.2	8.8	12.1	15.0	9.8	12.8	17.8	20.7	6.2	10.2	10.1	4.9	2.3
U9A	15:14:15	-3.8	2.1	9.3	2.1	8.8	11.8	14.9	9.6	12.4	17.3	20.3	6.1	9.9	10.1	4.2	2.0
U9A	15:29:15	-3.7	1.7	8.6	2.1	8.5	11.1	13.7	9.3	11.7	16.8	19.6	5.6	7.2	9.9	3.0	2.7
U9A	15:44:15	-3.5	1.4	8.3	2.0	8.6	10.6	13.3	9.2	11.4	16.5	19.4	5.6	9.4	9.2	2.3	2.5
U9A	15:59:15	-3.5	1.3	8.0	2.0	8.5	10.0	13.1	9.2	11.2	16.1	19.1	5.4	9.4	9.1	2.0	2.4
U9A	16:01:28	-3.5	1.3	8.0	2.0	8.5	10.0	13.0	9.1	11.2	16.0	19.2	5.5	9.4	9.1	1.9	2.4

Table F.18 continued

VIBRATING WIRE CALCULATED STRAIN (4 MINUTE READINGS)

AUC 5 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 13	VW STRN MICRO STRAIN 14	VW STRN MICRO STRAIN 15	VW STRN MICRO STRAIN 16	VW STRN MICRO STRAIN 3	VW STRN MICRO STRAIN 4	VW STRN MICRO STRAIN 17	VW STRN MICRO STRAIN 18	VW STRN MICRO STRAIN 7	VW STRN MICRO STRAIN 8	VW STRN MICRO STRAIN 35	VW STRN MICRO STRAIN 36	VW STRN MICRO STRAIN 21	VW STRN MICRO STRAIN 22	VW STRN MICRO STRAIN 41	VW STRN MICRO STRAIN 42
L0	12:43:07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
L1	12:52:45	0.3	0.4	0.7	1.2	1.4	1.1	1.1	0.8	2.9	2.0	5.0	5.6	5.2	5.3	12.5	8.0
L2	12:58:17	0.8	0.9	2.0	2.3	3.0	3.3	3.1	2.8	6.2	5.7	10.8	11.2	13.2	12.9	26.9	18.9
L3	13:03:33	1.2	1.1	3.0	2.4	4.1	5.1	6.1	4.8	9.9	10.2	19.6	18.1	22.1	22.2	40.2	30.3
L4	13:08:39	1.7	1.8	4.7	4.6	7.1	7.3	9.4	7.5	15.8	15.5	28.3	27.2	31.9	31.8	55.9	42.4
L5	13:13:44	2.2	2.3	6.1	5.3	9.2	9.7	12.6	10.1	20.5	21.4	37.6	34.7	41.5	41.2	69.9	55.1
L6	13:19:02	2.6	2.4	7.8	7.9	12.6	13.0	16.7	13.0	26.3	27.7	46.8	43.5	51.0	51.1	85.0	68.4
L7	13:24:10	3.1	2.7	10.2	11.2	15.2	16.0	21.0	16.6	32.1	34.5	56.2	52.0	61.2	60.9	98.6	81.3
L8	13:29:22	3.6	3.7	11.9	12.5	18.3	20.2	24.7	19.9	38.4	41.9	65.8	61.1	72.3	70.8	112.6	94.5
L9	13:34:34	4.0	4.1	13.8	15.2	21.8	23.4	29.4	23.8	45.6	49.4	76.0	70.2	82.3	81.1	126.9	107.6
L10	13:39:43	4.4	4.4	16.2	16.6	25.6	27.2	34.1	27.6	53.1	57.5	86.7	79.8	93.0	91.1	141.5	120.3
L11	13:45:05	5.0	4.9	18.6	20.0	29.4	31.1	39.3	31.7	60.4	65.8	96.9	89.6	104.4	101.3	153.6	133.8
L12	13:50:12	5.6	5.2	21.7	22.5	33.4	35.9	44.8	36.2	68.2	74.2	107.4	98.7	116.4	111.2	167.6	145.9
L13	13:55:15	6.1	5.7	24.3	25.5	37.4	40.7	51.2	41.1	76.4	83.4	118.3	108.4	128.2	121.5	181.6	157.9
L14	14:00:25	7.2	6.3	26.8	28.6	42.5	45.1	56.8	46.4	84.4	92.4	129.2	117.4	138.9	131.5	194.7	169.3
L15	14:05:27	7.9	7.3	30.3	31.6	47.1	50.5	63.2	51.1	92.5	101.6	139.8	126.6	150.0	140.6	208.4	180.0
L16	14:10:32	8.4	8.0	32.8	35.4	50.6	55.5	68.9	55.9	100.7	110.6	149.8	135.7	160.9	149.5	223.1	188.5
L17	14:15:47	9.2	9.0	36.4	38.3	55.5	60.2	75.3	61.2	109.1	119.9	160.9	144.9	172.0	158.9	237.8	196.9
L18	14:21:05	10.6	11.4	42.5	42.3	62.1	66.5	83.8	69.4	118.6	129.7	173.9	155.4	185.2	171.3	251.6	213.9
L19	14:26:54	9.6	14.1	45.9	44.3	65.6	71.6	88.1	72.6	122.0	135.0	185.5	161.1	195.3	180.0	263.6	227.4
L20	14:32:29	8.0	16.2	50.4	45.0	66.6	73.5	90.0	73.5	121.0	137.9	192.6	159.3	197.5	183.0	266.6	237.1
U1	14:37:00	7.7	15.7	46.7	40.7	61.0	67.0	83.4	67.6	112.6	128.4	178.2	145.9	181.0	167.5	244.0	213.5
U2	14:41:22	6.8	14.7	44.0	39.0	57.0	64.8	78.5	63.4	105.6	120.7	165.4	134.3	165.2	154.8	221.5	192.0
U3	14:45:35	5.6	14.0	41.8	35.5	52.7	60.2	73.0	58.7	97.2	111.6	149.8	121.3	147.3	139.3	197.5	168.9
U4	14:49:46	4.1	11.8	37.3	30.2	47.3	53.1	65.4	52.5	85.6	98.5	129.7	103.7	124.4	119.3	166.4	140.2
U5	14:54:10	2.5	9.6	32.0	25.0	39.9	46.1	56.6	44.6	71.7	83.6	107.2	84.7	99.6	97.7	133.9	110.4
U6	14:58:25	0.9	7.9	26.6	19.7	32.4	38.6	48.4	36.7	58.6	68.2	86.6	65.5	76.7	76.3	102.5	82.2
U7	15:02:38	-0.8	6.0	22.0	15.3	25.7	30.5	37.7	29.0	44.7	53.0	65.7	46.9	55.6	55.8	70.2	55.5
U8	15:06:47	-2.8	3.9	13.5	7.0	14.6	18.4	22.5	16.5	23.8	30.0	36.2	20.0	25.4	25.8	25.9	19.1
U9	15:11:01	-3.9	2.2	9.8	2.2	8.8	12.1	15.0	9.8	12.8	17.8	20.7	6.2	10.2	10.1	4.9	2.3
U9A	15:14:15	-3.8	2.1	9.3	2.1	8.8	11.8	14.9	9.6	12.4	17.3	20.3	6.1	9.9	10.1	4.2	2.0

Table F.18 continued

AVERAGE STRAIN AT EACH GAGE LEVEL, INTEGRATED PILE COMPRESSION & COMPARISON WITH TELLTALE MEASUREMENT (4 MINUTE READINGS)

AUC 5 LOAD NUMBER	AVG VW MICRO STRAIN SURFACE	AVG VW MICRO STRAIN 13+14	AVG VW MICRO STRAIN 15+16	AVG VW MICRO STRAIN 3+4	AVG VW MICRO STRAIN 17+18	AVG VW MICRO STRAIN 7+8	AVG VW MICRO STRAIN 35+36	AVG VW MICRO STRAIN 21+22	AVG VW MICRO STRAIN 41+42	EST'D. MICRO STRAIN CELL TOP	PILE COMPRESSION SG MSMT. INCHES	TT MSMT. INCHES	ABS.DIFF. SG-TT INCHES
L0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0000	0.0000	0.0000
L1	0.0	0.3	0.9	1.3	1.0	2.5	5.3	5.3	10.3	11.9	0.0019	0.0015	0.0003
L2	0.0	0.8	2.2	3.1	2.9	6.0	11.0	13.0	22.9	25.0	0.0044	0.0037	0.0007
L3	0.0	1.2	2.7	4.6	5.5	10.1	18.8	22.1	35.3	37.9	0.0072	0.0059	0.0013
L4	0.0	1.7	4.6	7.2	8.4	15.6	27.8	31.8	49.1	51.7	0.0106	0.0088	0.0018
L5	0.0	2.2	5.7	9.5	11.3	20.9	36.2	41.4	62.5	65.1	0.0138	0.0118	0.0020
L6	0.0	2.5	7.8	12.8	14.9	27.0	45.1	51.0	76.7	79.1	0.0173	0.0152	0.0022
L7	0.0	2.9	10.7	15.6	18.8	33.3	54.1	61.0	90.0	92.5	0.0210	0.0180	0.0030
L8	0.0	3.7	12.2	19.2	22.3	40.1	63.4	71.5	103.5	106.0	0.0247	0.0214	0.0033
L9	0.0	4.1	14.5	22.6	26.6	47.5	73.1	81.7	117.2	119.6	0.0286	0.0249	0.0037
L10	0.0	4.4	16.4	26.4	30.8	55.3	83.2	92.1	130.9	133.1	0.0326	0.0288	0.0038
L11	0.0	4.9	19.3	30.2	35.5	63.1	93.3	102.8	143.7	146.1	0.0367	0.0322	0.0045
L12	0.0	5.4	22.1	34.7	40.5	71.2	103.0	113.8	156.8	159.3	0.0409	0.0357	0.0052
L13	0.0	5.9	24.9	39.0	46.1	79.9	113.4	124.8	169.8	172.4	0.0453	0.0395	0.0058
L14	0.0	6.8	27.7	43.8	51.6	88.4	123.3	135.2	182.0	185.0	0.0496	0.0438	0.0058
L15	0.0	7.6	31.0	48.8	57.2	97.1	133.2	145.3	194.2	197.5	0.0540	0.0472	0.0068
L16	0.0	8.2	34.1	53.1	62.4	105.7	142.7	155.2	205.8	209.7	0.0581	0.0511	0.0071
L17	0.0	9.1	37.4	57.8	68.3	114.5	152.9	165.4	217.3	221.8	0.0625	0.0550	0.0075
L18	0.0	11.0	42.4	64.3	76.6	124.2	164.7	178.3	232.8	236.5	0.0681	0.0600	0.0081
L19	0.0	11.9	45.1	68.6	80.4	128.5	173.3	187.6	245.5	249.4	0.0716	0.0637	0.0079
L20	0.0	12.1	47.7	70.1	81.8	129.4	176.0	190.2	251.9	255.8	0.0730	0.0648	0.0081
U1	0.0	11.7	43.7	64.0	75.5	120.5	162.0	174.3	228.7	230.7	0.0671	0.0605	0.0066
U2	0.0	10.7	41.5	60.9	71.0	113.1	149.9	160.0	206.7	205.9	0.0623	0.0564	0.0059
U3	0.0	9.8	38.7	56.5	65.9	104.4	135.6	143.3	183.2	181.4	0.0566	0.0514	0.0052
U4	0.0	7.9	33.7	50.2	58.9	92.1	116.7	121.8	153.3	150.7	0.0490	0.0447	0.0043
U5	0.0	6.0	28.5	43.0	50.6	77.7	96.0	98.7	122.2	119.3	0.0406	0.0371	0.0035
U6	0.0	4.4	23.1	35.5	42.6	63.4	76.0	76.5	92.4	89.4	0.0324	0.0300	0.0024
U7	0.0	2.6	18.6	28.1	33.4	48.9	56.3	55.7	62.9	60.4	0.0242	0.0228	0.0014
U8	0.0	0.5	10.2	16.5	19.5	26.9	28.1	25.6	22.5	20.9	0.0122	0.0123	-0.0001
U9	0.0	-0.8	6.0	10.4	12.4	15.3	13.5	10.2	3.6	2.3	0.0061	0.0070	-0.0009
U9A	0.0	-0.9	5.7	10.3	12.3	14.9	13.2	10.0	3.1	2.0	0.0059	0.0064	-0.0005
ELEV. FT	53.21	43.25	35.25	28.25	21.75	11.75	2.75	-0.25	-8.25	-8.75			

Table F.18 continued

VIBRATING WIRE CALCULATED AVERAGE LOADS (4 MINUTE READINGS)

LA = 8.00 ft
LB = 1.38 ft
B = 18.00 in
ES = 27500.0 ksi

ACA = 317.115 si
ACB = 313.155 si
ASA = 3.538 si
ASB = 7.498 si

AUC 5 LOAD NUMBER	AVG VW LOAD TONS SURFACE	AVG VW LOAD TONS 13+14	AVG VW LOAD TONS 15+16	AVG VW LOAD TONS 3+4	AVG VW LOAD TONS 17+18	AVG VW LOAD TONS 7+8	AVG VW LOAD TONS 35+36	AVG VW LOAD TONS 21+22	AVG VW LOAD TONS 41+42	OSTERBERG LOAD TONS BOTTOM	INCR. PILE MODULUS KSI	CALC. PILE A MODULUS KSI	CALC. PILE B MODULUS KSI
L0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0		4413.0	4697.8
L1	0.0	0.24	0.67	0.91	0.69	1.76	3.80	3.75	7.80	11.2	6753.4	4413.0	4697.8
L2	0.0	0.58	1.57	2.24	2.10	4.26	7.88	9.32	17.45	21.8	5175.5	4413.0	4697.8
L3	0.0	0.83	1.95	3.26	3.91	7.19	13.47	15.81	26.84	32.3	5247.4	4413.0	4697.8
L4	0.0	1.23	3.31	5.17	6.04	11.18	19.85	22.76	37.39	42.7	4636.1	4413.0	4697.8
L5	0.0	1.61	4.07	6.77	8.11	14.97	25.86	29.57	47.57	53.1	4770.8	4413.0	4697.8
L6	0.0	1.78	5.61	9.15	10.63	19.30	32.27	36.49	58.39	63.5	4512.6	4413.0	4697.8
L7	0.0	2.08	7.66	11.15	13.44	23.80	38.69	43.64	68.46	73.7	4782.7	4413.0	4697.8
L8	0.0	2.62	8.70	13.76	15.93	28.70	45.34	51.15	78.80	83.9	4638.9	4413.0	4697.8
L9	0.0	2.92	10.37	16.16	19.02	33.98	52.26	58.39	89.21	94.1	4597.1	4413.0	4697.8
L10	0.0	3.14	11.73	18.87	22.05	39.52	59.51	65.81	99.64	104.3	4579.3	4413.0	4697.8
L11	0.0	3.52	13.82	21.62	25.40	45.10	66.67	73.53	109.34	114.4	4905.6	4413.0	4697.8
L12	0.0	3.86	15.81	24.79	28.98	50.88	73.67	81.35	119.31	124.5	4766.4	4413.0	4697.8
L13	0.0	4.25	17.81	27.91	32.97	57.12	81.04	89.25	129.20	134.6	4793.1	4413.0	4697.8
L14	0.0	4.84	19.81	31.28	36.89	63.18	88.15	96.64	138.54	144.7	5070.9	4413.0	4697.8
L15	0.0	5.43	22.13	34.89	40.88	69.40	95.23	103.89	147.79	154.8	5107.2	4413.0	4697.8
L16	0.0	5.86	24.36	37.93	44.64	75.55	102.05	110.97	156.61	164.8	5344.8	4413.0	4697.8
L17	0.0	6.48	26.72	41.34	48.80	81.88	109.34	118.28	165.41	174.8	5354.9	4413.0	4697.8
L18	0.0	7.85	30.31	45.98	54.73	88.77	117.73	127.45	177.15	184.9	4041.1	4413.0	4697.8
L19	0.0	8.48	32.25	49.02	57.47	91.89	123.89	134.14	186.84	194.9	4851.0	4413.0	4697.8
L20	0.0	8.65	34.08	50.09	58.45	92.53	125.79	136.00	191.67	200.0	4876.5	4413.0	4697.8
U1	0.0	8.39	31.24	45.75	53.96	86.15	115.83	124.59	174.06	178.2		4413.0	4697.8
U2	0.0	7.68	29.69	43.53	50.75	80.88	107.14	114.36	157.34	155.6		4413.0	4697.8
U3	0.0	7.00	27.63	40.37	47.08	74.66	96.91	102.44	139.40	135.7		4413.0	4697.8
U4	0.0	5.68	24.10	35.87	42.14	65.81	83.45	87.10	116.67	111.3		4413.0	4697.8
U5	0.0	4.32	20.40	30.74	36.16	55.53	68.61	70.54	92.99	87.0		4413.0	4697.8
U6	0.0	3.13	16.53	25.35	30.42	45.34	54.36	54.70	70.29	64.2		4413.0	4697.8
U7	0.0	1.89	13.32	20.09	23.86	34.93	40.25	39.82	47.85	42.7		4413.0	4697.8
U8	0.0	0.39	7.32	11.81	13.94	19.21	20.08	18.29	17.12	13.7		4413.0	4697.8
U9	0.0	-0.60	4.30	7.45	8.87	10.96	9.63	7.26	2.75	0.0		4413.0	4697.8
U9A	0.0	-0.61	4.07	7.34	8.76	10.62	9.42	7.13	2.37	0.0		4413.0	4697.8
ELEV. FT	53.21	43.25	35.25	28.25	21.75	11.75	2.75	-0.25	-8.25	-9.63	4202.0 KSI = CONCRETE MOD		

Table F.18 continued

INTEGRATED MOVEMENT AT VW STRAIN GAGE (4 MINUTE READINGS)

AUC 5 LOAD NUMBER	VW MOVEMENT INCHES SURFACE	VW MOVEMENT INCHES 13+14	VW MOVEMENT INCHES 15+16	VW MOVEMENT INCHES 3+4	VW MOVEMENT INCHES 17+18	VW MOVEMENT INCHES 7+8	VW MOVEMENT INCHES 35+36	VW MOVEMENT INCHES 21+22	VW MOVEMENT INCHES 41+42	VW MOVEMENT INCHES CELL TOP
L0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L1	-0.0003	-0.0003	-0.0003	-0.0002	-0.0001	0.0001	0.0005	0.0007	0.0015	0.0015
L2	-0.0007	-0.0007	-0.0005	-0.0003	-0.0001	0.0005	0.0014	0.0018	0.0036	0.0037
L3	-0.0013	-0.0012	-0.0010	-0.0007	-0.0003	0.0006	0.0022	0.0029	0.0057	0.0059
L4	0.0032	0.0033	0.0036	0.0041	0.0047	0.0062	0.0085	0.0096	0.0135	0.0138
L5	0.0030	0.0032	0.0036	0.0042	0.0050	0.0070	0.0100	0.0114	0.0164	0.0168
L6	0.0078	0.0080	0.0085	0.0093	0.0104	0.0129	0.0168	0.0185	0.0247	0.0252
L7	0.0070	0.0072	0.0078	0.0089	0.0103	0.0134	0.0181	0.0202	0.0275	0.0280
L8	0.0117	0.0119	0.0127	0.0140	0.0156	0.0193	0.0249	0.0274	0.0358	0.0364
L9	0.0113	0.0115	0.0124	0.0140	0.0159	0.0203	0.0269	0.0296	0.0392	0.0399
L10	0.0162	0.0164	0.0174	0.0192	0.0215	0.0266	0.0341	0.0373	0.0480	0.0488
L11	0.0155	0.0158	0.0170	0.0191	0.0216	0.0276	0.0360	0.0395	0.0514	0.0522
L12	0.0148	0.0151	0.0164	0.0188	0.0218	0.0285	0.0379	0.0418	0.0548	0.0557
L13	0.0192	0.0196	0.0210	0.0237	0.0270	0.0346	0.0450	0.0493	0.0635	0.0645
L14	0.0242	0.0246	0.0263	0.0293	0.0330	0.0414	0.0528	0.0575	0.0727	0.0738
L15	0.0282	0.0286	0.0305	0.0338	0.0380	0.0472	0.0597	0.0647	0.0810	0.0821
L16	0.0329	0.0334	0.0354	0.0391	0.0436	0.0537	0.0671	0.0725	0.0898	0.0910
L17	0.0425	0.0430	0.0453	0.0493	0.0542	0.0652	0.0796	0.0853	0.1037	0.1050
L18	0.0569	0.0575	0.0601	0.0646	0.0700	0.0821	0.0977	0.1039	0.1236	0.1250
L19	0.1621	0.1628	0.1655	0.1703	0.1761	0.1886	0.2049	0.2114	0.2322	0.2337
L20	0.3819	0.3826	0.3855	0.3904	0.3963	0.4090	0.4255	0.4321	0.4533	0.4548
U1	0.4234	0.4241	0.4268	0.4313	0.4367	0.4485	0.4637	0.4698	0.4891	0.4905
U2	0.4141	0.4147	0.4172	0.4215	0.4267	0.4377	0.4519	0.4575	0.4751	0.4763
U3	0.4148	0.4153	0.4177	0.4217	0.4264	0.4367	0.4496	0.4546	0.4703	0.4714
U4	0.4157	0.4162	0.4182	0.4217	0.4260	0.4350	0.4463	0.4506	0.4638	0.4647
U5	0.4165	0.4169	0.4186	0.4216	0.4252	0.4329	0.4423	0.4458	0.4564	0.4571
U6	0.4176	0.4179	0.4192	0.4217	0.4247	0.4311	0.4386	0.4413	0.4495	0.4500
U7	0.4086	0.4087	0.4097	0.4117	0.4141	0.4190	0.4247	0.4267	0.4324	0.4328
U8	0.4001	0.4001	0.4007	0.4018	0.4032	0.4060	0.4089	0.4099	0.4122	0.4123
U9	0.4009	0.4008	0.4011	0.4018	0.4027	0.4043	0.4059	0.4063	0.4070	0.4070
U9A	0.4005	0.4004	0.4006	0.4013	0.4022	0.4038	0.4053	0.4058	0.4064	0.4064

Table F.18 continued

INTEGRATED MOVEMENT AT SEGMENT CL (4 MINUTE READINGS)

AUC 5 LOAD NUMBER CL.ELEV.	AVG VW MOVEMENT INCHES 48.23	AVG VW MOVEMENT INCHES 39.25	AVG VW MOVEMENT INCHES 31.75	AVG VW MOVEMENT INCHES 25.00	AVG VW MOVEMENT INCHES 16.75	AVG VW MOVEMENT INCHES 7.25	AVG VW MOVEMENT INCHES 1.25	AVG VW MOVEMENT INCHES -4.25
L0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0003	0.0006	0.0011
L2	0.0000	0.0000	0.0000	0.0000	0.0002	0.0009	0.0016	0.0027
L3	0.0000	0.0000	0.0000	0.0000	0.0002	0.0014	0.0026	0.0043
L4	0.0033	0.0035	0.0039	0.0044	0.0055	0.0074	0.0091	0.0116
L5	0.0031	0.0034	0.0039	0.0046	0.0060	0.0085	0.0107	0.0139
L6	0.0079	0.0082	0.0089	0.0099	0.0117	0.0149	0.0177	0.0216
L7	0.0071	0.0075	0.0084	0.0096	0.0119	0.0158	0.0192	0.0238
L8	0.0118	0.0123	0.0133	0.0148	0.0175	0.0221	0.0262	0.0316
L9	0.0114	0.0120	0.0132	0.0149	0.0181	0.0236	0.0282	0.0344
L10	0.0163	0.0169	0.0183	0.0203	0.0240	0.0304	0.0357	0.0426
L11	0.0157	0.0164	0.0180	0.0204	0.0246	0.0318	0.0378	0.0454
L12	0.0150	0.0158	0.0176	0.0203	0.0251	0.0332	0.0398	0.0483
L13	0.0194	0.0203	0.0224	0.0254	0.0308	0.0398	0.0472	0.0564
L14	0.0244	0.0254	0.0278	0.0311	0.0372	0.0471	0.0551	0.0651
L15	0.0284	0.0296	0.0322	0.0359	0.0426	0.0534	0.0622	0.0728
L16	0.0332	0.0344	0.0373	0.0414	0.0487	0.0604	0.0698	0.0811
L17	0.0428	0.0442	0.0473	0.0517	0.0597	0.0724	0.0825	0.0945
L18	0.0572	0.0588	0.0623	0.0673	0.0761	0.0899	0.1008	0.1137
L19	0.1624	0.1641	0.1679	0.1732	0.1824	0.1968	0.2082	0.2218
L20	0.3822	0.3840	0.3879	0.3934	0.4027	0.4172	0.4288	0.4427
U1	0.4238	0.4254	0.4290	0.4340	0.4426	0.4561	0.4668	0.4795
U2	0.4144	0.4160	0.4194	0.4241	0.4322	0.4448	0.4547	0.4663
U3	0.4151	0.4165	0.4197	0.4241	0.4315	0.4431	0.4521	0.4625
U4	0.4159	0.4172	0.4199	0.4238	0.4305	0.4406	0.4484	0.4572
U5	0.4167	0.4177	0.4201	0.4234	0.4291	0.4376	0.4440	0.4511
U6	0.4178	0.4186	0.4204	0.4232	0.4279	0.4348	0.4400	0.4454
U7	0.4086	0.4092	0.4107	0.4129	0.4166	0.4219	0.4257	0.4296
U8	0.4001	0.4004	0.4012	0.4025	0.4046	0.4075	0.4094	0.4111
U9	0.4008	0.4009	0.4014	0.4022	0.4035	0.4051	0.4061	0.4066
U9A	0.4004	0.4005	0.4010	0.4018	0.4030	0.4046	0.4055	0.4061

Table F.18 continued

AVERAGE SEGMENT SHEAR STRESS (4 MINUTE READINGS)

AUC 5 LOAD NUMBER CL.ELEV.	AVG VW SHEAR TSF 48.23	AVG VW SHEAR TSF 39.25	AVG VW SHEAR TSF 31.75	AVG VW SHEAR TSF 25.00	AVG VW SHEAR TSF 16.75	AVG VW SHEAR TSF 7.25	AVG VW SHEAR TSF 1.25	AVG VW SHEAR TSF -4.25
L0	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016
L1	-0.012	-0.007	-0.011	-0.022	0.001	0.021	-0.019	0.068
L2	-0.007	0.004	-0.000	-0.020	0.020	0.051	0.064	0.153
L3	-0.003	0.007	0.015	0.000	0.038	0.100	0.114	0.213
L4	0.004	0.027	0.028	0.006	0.069	0.144	0.145	0.288
L5	0.010	0.035	0.048	0.018	0.098	0.185	0.190	0.359
L6	0.013	0.063	0.068	0.021	0.128	0.224	0.218	0.440
L7	0.018	0.100	0.067	0.042	0.156	0.259	0.258	0.501
L8	0.027	0.110	0.104	0.039	0.196	0.292	0.306	0.560
L9	0.032	0.139	0.121	0.057	0.233	0.322	0.324	0.626
L10	0.036	0.162	0.154	0.065	0.275	0.354	0.334	0.688
L11	0.042	0.198	0.169	0.080	0.312	0.383	0.365	0.730
L12	0.048	0.233	0.197	0.091	0.349	0.406	0.410	0.775
L13	0.055	0.266	0.224	0.113	0.386	0.427	0.440	0.816
L14	0.065	0.295	0.257	0.127	0.422	0.446	0.455	0.856
L15	0.074	0.331	0.287	0.137	0.459	0.462	0.465	0.898
L16	0.082	0.369	0.307	0.156	0.499	0.474	0.479	0.935
L17	0.092	0.405	0.332	0.175	0.535	0.492	0.480	0.965
L18	0.115	0.451	0.357	0.208	0.551	0.520	0.524	1.019
L19	0.125	0.479	0.383	0.200	0.557	0.576	0.553	1.082
L20	0.128	0.514	0.365	0.198	0.552	0.599	0.551	1.143
U1	0.124	0.460	0.329	0.194	0.520	0.533	0.470	1.014
U2	0.112	0.442	0.313	0.169	0.486	0.470	0.384	0.879
U3	0.101	0.413	0.287	0.156	0.443	0.396	0.290	0.754
U4	0.079	0.367	0.264	0.144	0.378	0.310	0.186	0.600
U5	0.056	0.318	0.230	0.123	0.306	0.226	0.091	0.451
U6	0.036	0.263	0.194	0.114	0.232	0.151	0.003	0.308
U7	0.015	0.222	0.145	0.080	0.168	0.082	-0.040	0.151
U8	-0.010	0.128	0.090	0.038	0.072	-0.000	-0.116	-0.041
U9	-0.027	0.086	0.059	0.020	0.018	-0.041	-0.148	-0.110
U9A	-0.027	0.081	0.061	0.020	0.014	-0.039	-0.144	-0.116

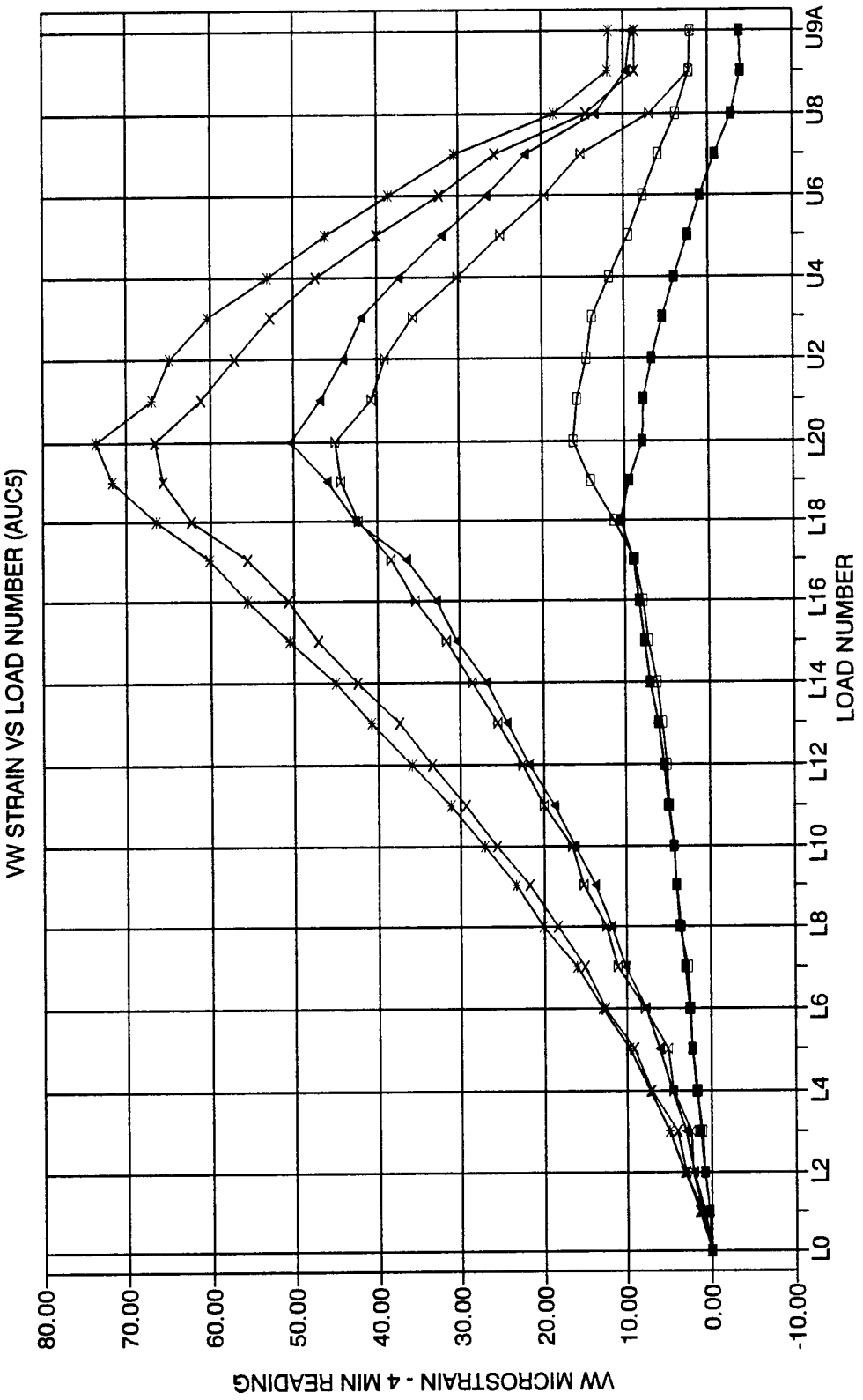

Figure F.89 Strain at Pile Top: Aucilla Load Test 5

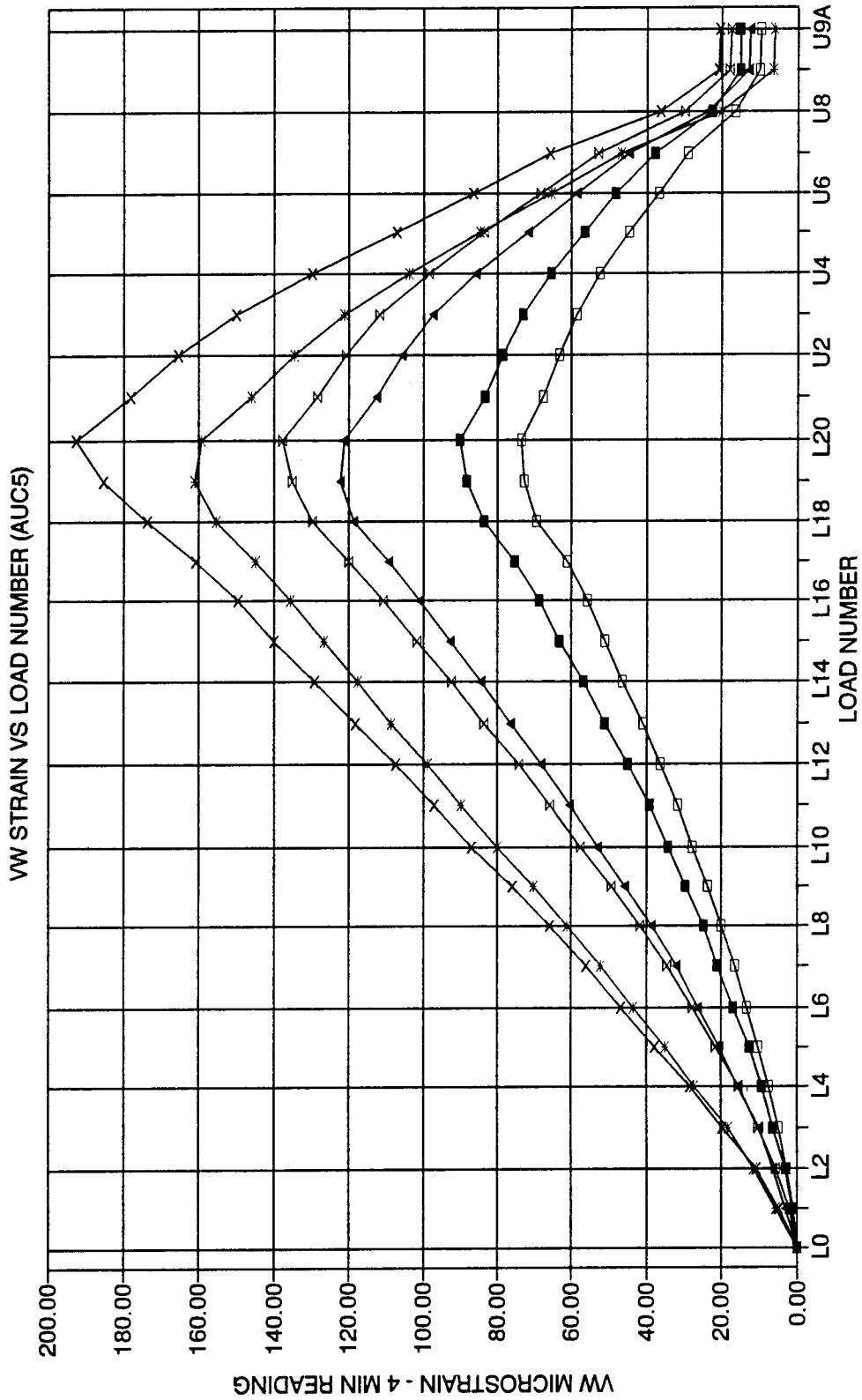

Figure F.90 Strain at Pile Middle: Aucilla Load Test 5

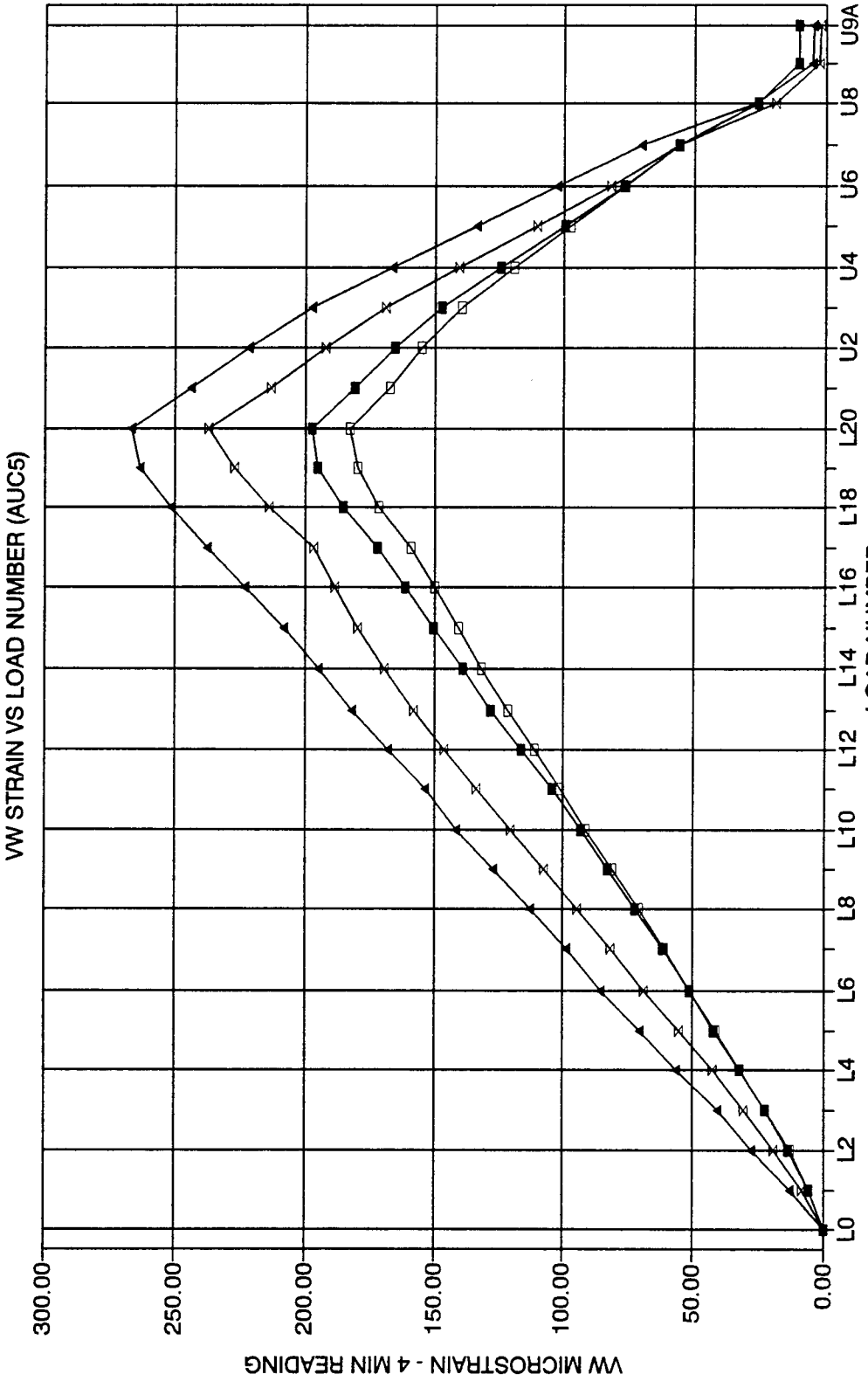

Figure F.91 Strain at Pile Bottom: Aucilla Load Test 5

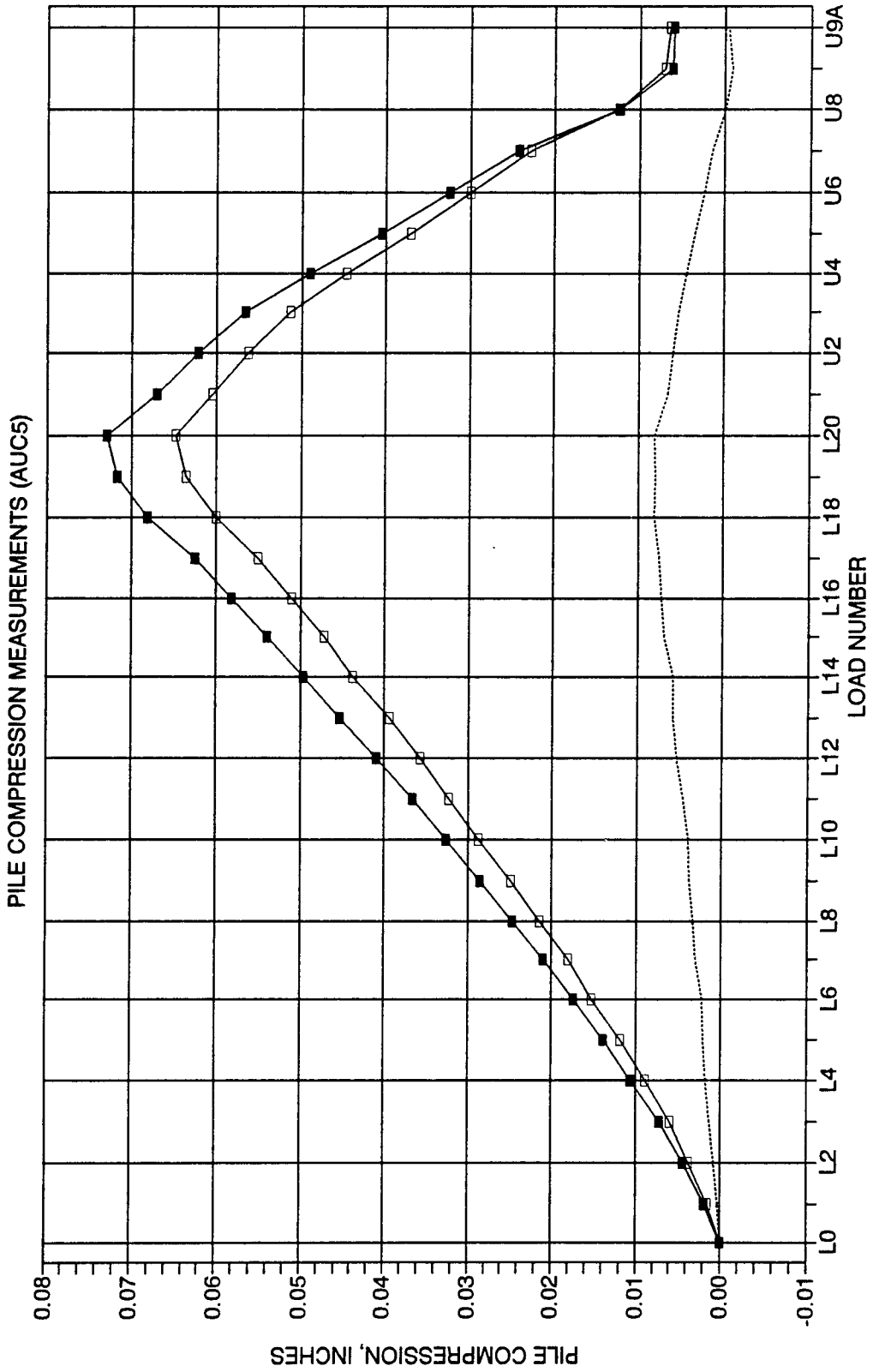

Figure F.92 Pile Compression Measurements: Aucilla Load Test 5

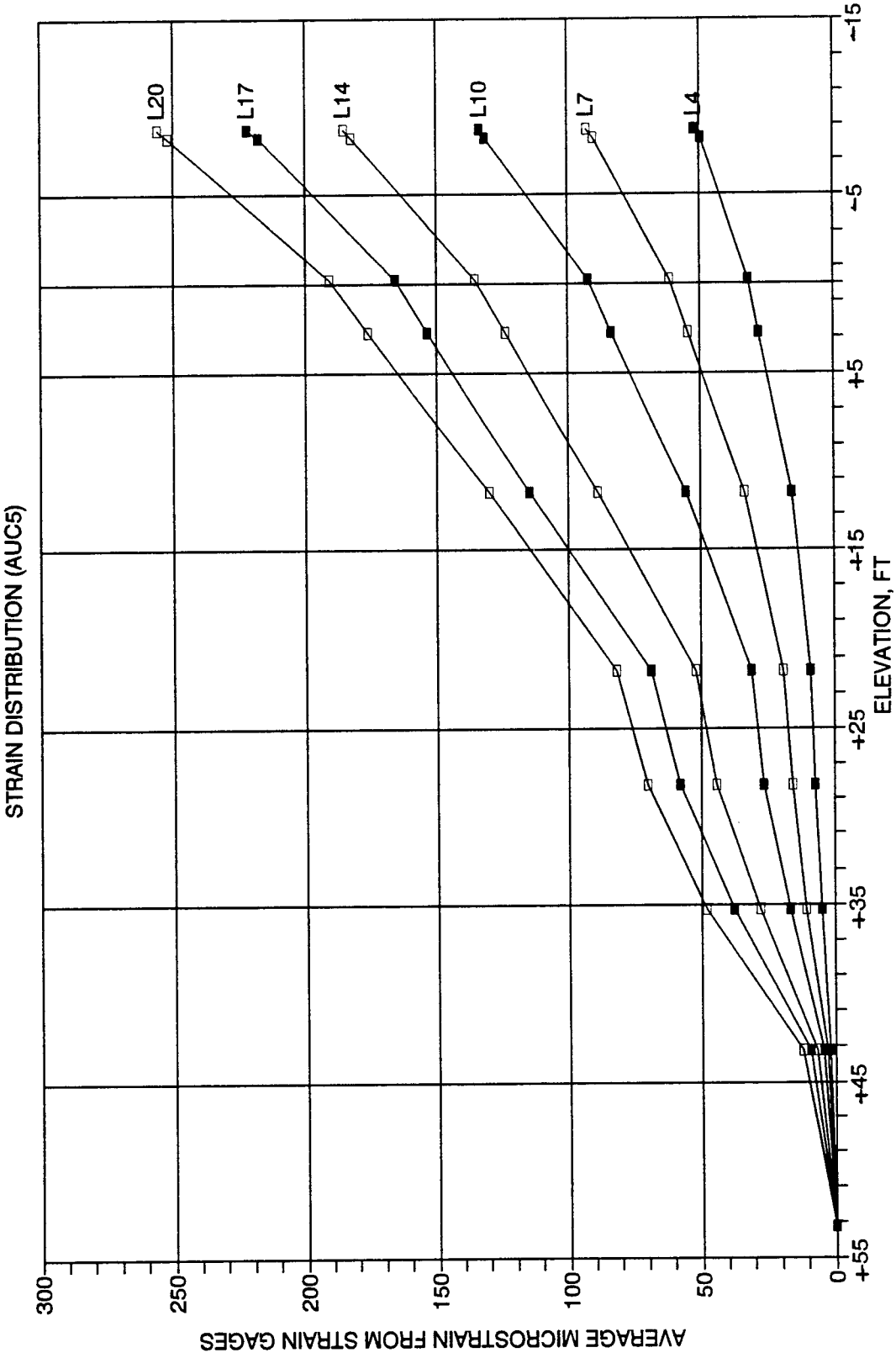

Figure F.93 Pile Strain Distribution: Aucilla Load Test 5

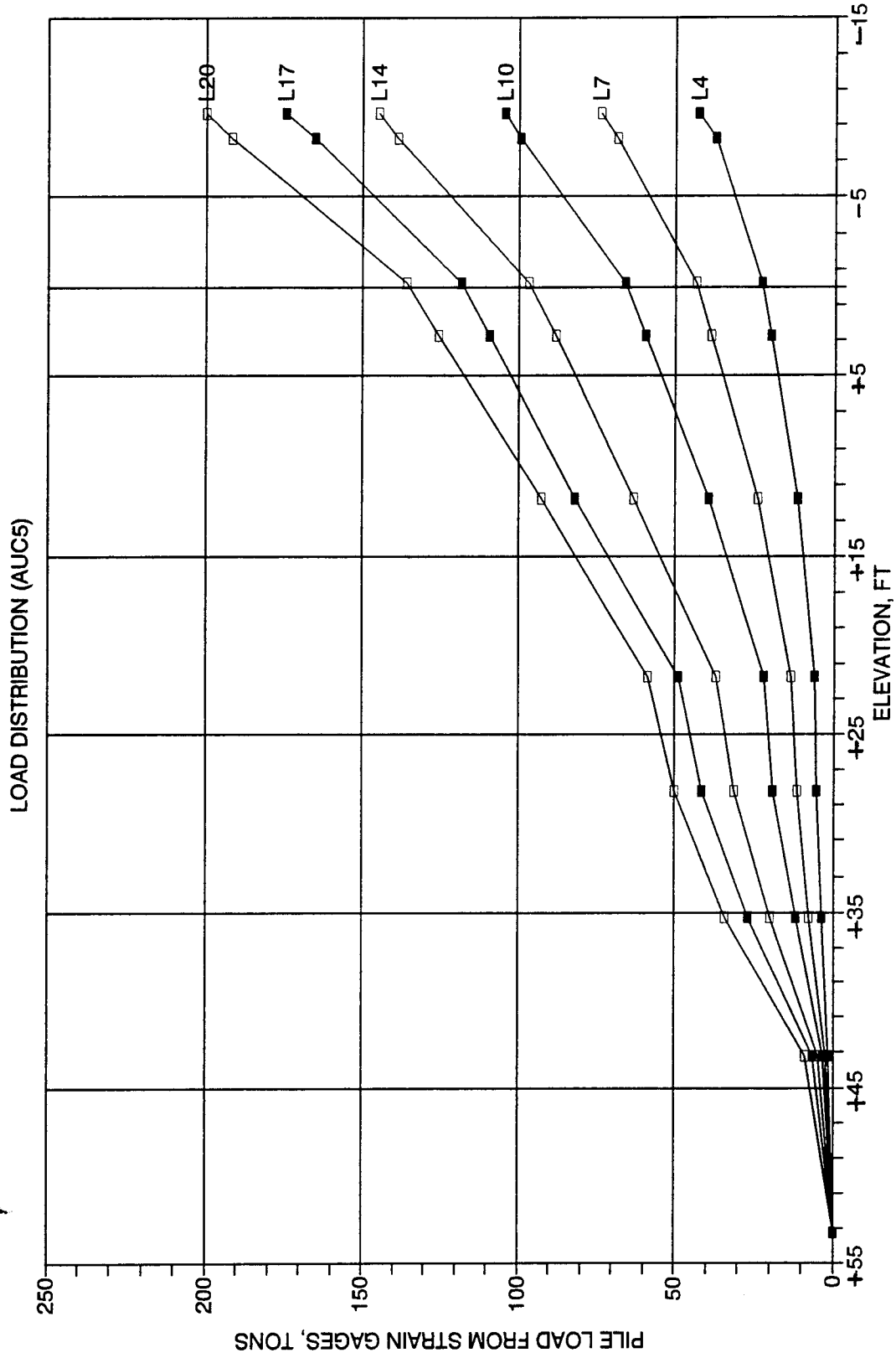

Figure F.94 Pile Load Distribution: Aucilla Load Test 5

Table F.19 Strain Analyses: Aucilla Load Test 6

VIBRATING WIRE INSTRUMENT READINGS - STRAIN

AUC 6 LOAD NUMBER	TIME	VW STRN FREQ^2 KHZ^2 13	VW STRN FREQ^2 KHZ^2 14	VW STRN FREQ^2 KHZ^2 15	VW STRN FREQ^2 KHZ^2 16	VW STRN FREQ^2 KHZ^2 3	VW STRN FREQ^2 KHZ^2 4	VW STRN FREQ^2 KHZ^2 17	VW STRN FREQ^2 KHZ^2 18	VW STRN FREQ^2 KHZ^2 7	VW STRN FREQ KHZ^2 8	VW STRN FREQ KHZ^2 35	VW STRN FREQ KHZ^2 36	VW STRN FREQ KHZ^2 21	VW STRN FREQ KHZ^2 22	VW STRN FREQ KHZ^2 41	VW STRN FREQ KHZ^2 42
L0	12:09:42	0.71832	0.70888	0.67164	0.68703	0.67854	0.69973	0.72022	0.63126	-99999	0.62277	0.70898	0.67321	0.67046	0.65847	0.86949	0.78874
L0	12:10:37	0.71833	0.70888	0.67164	0.68703	0.67854	0.69975	0.72021	0.63127	-99999	0.62277	0.70897	0.67322	0.67046	0.65846	0.86949	0.78872
L0	12:11:24	0.71832	0.70889	0.67164	0.68702	0.67853	0.69973	0.72024	0.63126	-99999	0.62276	0.70900	0.67322	0.67045	0.65846	0.86949	0.78872
L0	12:14:09	0.71832	0.70889	0.67163	0.68697	0.67855	0.69973	0.72022	0.63126	-99999	0.62275	0.70899	0.67323	0.67046	0.65845	0.86949	0.78873
L0	12:15:44	0.71831	0.70888	0.67164	0.68702	0.67855	0.69973	0.72021	0.63126	-99999	0.62276	0.70899	0.67321	0.67047	0.65847	0.86950	0.78873
L0	12:19:04	0.71832	0.70889	0.67165	0.68703	0.67854	0.69975	0.72024	0.63127	-99999	0.62277	0.70900	0.67323	0.67047	0.65847	0.86950	0.78875
L0	12:21:57	0.71832	0.70889	0.67165	0.68703	0.67856	0.69974	0.72023	0.63127	-99999	-99999	0.70899	0.67322	0.67047	0.65848	0.86953	0.78874
L0	12:24:33	0.71831	0.70888	0.67163	0.68703	0.67854	0.69975	0.72021	0.63127	-99999	0.62277	0.70901	0.67321	0.67049	0.65846	0.86949	0.78874
L0	12:39:47	0.71828	0.70900	0.67154	0.68702	0.67847	0.69959	0.72047	0.63126	-99999	0.62276	0.70895	0.67334	0.67056	0.65845	0.86952	0.78878
L0	12:42:52	0.71834	0.70904	0.67146	0.68703	0.67842	0.69944	0.72013	0.63120	-99999	0.62286	0.70880	0.67318	0.67068	0.65840	0.86947	0.78877
L0	12:57:52	0.71835	0.70905	0.67146	0.68703	0.67842	0.69944	0.72023	0.63121	-99999	0.62286	0.70879	0.67319	0.67065	0.65841	0.86947	0.78877
L0	13:01:49	0.71806	0.70873	0.67141	0.68741	0.67880	0.69965	0.72015	0.63152	0.73030	0.62268	0.70831	0.67285	0.67119	0.65877	0.86950	0.78868
L0	13:02:22	0.71810	0.70872	0.67141	0.68751	0.67881	0.69969	0.72016	0.63153	0.73039	0.62268	0.70850	0.67282	0.67133	0.65880	0.86954	0.78870
L0	13:04:21	0.71809	0.70876	0.67143	0.68752	0.67881	0.69971	0.72015	0.63152	0.73032	0.62269	0.70829	0.67283	0.67133	0.65882	0.86956	0.78871
L0	13:19:21	0.71809	0.70874	0.67142	0.68739	0.67883	0.69973	0.72014	0.63151	0.73044	0.62270	0.70856	0.67284	0.67136	0.65881	0.86954	0.78870
L0	13:27:29	0.71807	0.70874	0.67132	0.68749	0.67880	0.69969	0.72017	0.63152	0.73033	0.62270	0.70856	0.67282	0.67103	0.65880	0.86955	0.78870
L1	13:32:35	0.71825	0.70864	0.67116	0.68670	0.67823	0.69897	0.72002	0.63070	0.72948	0.62165	0.70805	0.67167	0.66830	0.65677	0.86462	0.78468
L1	13:33:06	0.71814	0.70858	0.67114	0.68683	0.67818	0.69894	0.71998	0.63070	0.72941	0.62166	0.70804	0.67169	0.66833	0.65680	0.86467	0.78467
L1	13:34:05	0.71813	0.70864	0.67116	0.68687	0.67829	0.69897	0.72000	0.63071	0.72944	0.62165	0.70806	0.67166	0.66829	0.65671	0.86459	0.78466
L1	13:36:05	0.71814	0.70863	0.67113	0.68686	0.67827	0.69896	0.71998	0.63069	0.72943	0.62165	0.70801	0.67165	0.66829	0.65669	0.86460	0.78464
L2	13:38:17	0.71842	0.70846	0.67021	0.68615	0.67757	0.69831	0.71856	0.62994	0.72803	0.62022	0.70491	0.66927	0.66559	0.65334	0.85855	0.78011
L2	13:38:48	0.71840	0.70845	0.67028	0.68613	0.67757	0.69827	0.71857	0.62989	0.72795	0.62020	0.70476	0.66904	0.66532	0.65323	0.85853	0.78006
L2	13:39:47	0.71839	0.70843	0.67020	0.68613	0.67760	0.69827	0.71860	0.62995	0.72798	0.62021	0.70484	0.66913	0.66544	0.65325	0.85851	0.78014
L2	13:41:48	0.71839	0.70837	0.67024	0.68614	0.67758	0.69827	0.71860	0.62990	0.72798	0.62019	0.70474	0.66903	0.66537	0.65322	0.85851	0.78011
L3	13:55:54	0.71829	0.70853	0.67080	0.68541	0.67721	0.69769	0.71783	0.62934	0.72654	0.61842	0.70114	0.66624	0.66234	0.64952	0.85260	0.77511
L3	13:56:25	0.71830	0.70849	0.67080	0.68534	0.67722	0.69771	0.71784	0.62931	0.72657	0.61843	0.70124	0.66624	0.66258	0.64955	0.85266	0.77513
L3	13:57:24	0.71829	0.70852	0.67076	0.68559	0.67715	0.69762	0.71778	0.62932	0.72642	0.61830	0.70075	0.66584	0.66110	0.64918	0.85252	0.77492
L3	14:00:40	0.71831	0.70850	0.67079	0.68539	0.67717	0.69766	0.71777	0.62932	0.72645	0.61831	0.70079	0.66593	0.66114	0.64922	0.85262	0.77509
L4	14:02:42	0.71805	0.70791	0.66930	0.68557	0.67595	0.69649	0.71628	0.62832	0.72454	0.61633	0.69675	0.66300	0.65776	0.64545	0.84677	0.76982
L4	14:03:13	0.71806	0.70797	0.66924	0.68557	0.67580	0.69645	0.71621	0.62822	0.72440	0.61620	0.69629	0.66303	0.65806	0.64527	0.84662	0.76944
L4	14:04:12	0.71806	0.70797	0.66926	0.68555	0.67579	0.69645	0.71621	0.62823	0.72443	0.61621	0.69632	0.66303	0.65803	0.64528	0.84664	0.76951
L4	14:06:12	0.71805	0.70799	0.66918	0.68555	0.67585	0.69647	0.71619	0.62823	0.72440	0.61619	0.69635	0.66306	0.65796	0.64530	0.84674	0.76965
L5	14:08:23	0.71786	0.70815	0.66882	0.68457	0.67503	0.69539	0.71510	0.62724	0.72222	0.61398	0.69382	0.65875	0.65404	0.64137	0.84108	0.76447
L5	14:08:54	0.71787	0.70812	0.66890	0.68460	0.67492	0.69534	0.71503	0.62724	0.72190	0.61398	0.69381	0.65872	0.65398	0.64127	0.84052	0.76407
L5	14:09:53	0.71788	0.70815	0.66905	0.68455	0.67474	0.69523	0.71491	0.62719	0.72189	0.61383	0.69310	0.65842	0.65366	0.64115	0.84082	0.76417
L5	14:11:52	0.71788	0.70813	0.66893	0.68454	0.67474	0.69525	0.71491	0.62718	0.72198	0.61380	0.69318	0.65840	0.65384	0.64124	0.84089	0.76431
L6	14:13:39	0.71644	0.70822	0.66828	0.68348	0.67324	0.69435	0.71362	0.62576	0.70836	0.61134	0.68986	0.65570	0.64935	0.63697	0.83471	0.75896
L6	14:14:10	0.71640	0.70821	0.66824	0.68350	0.67324	0.69432	0.71354	0.62579	0.70807	0.61127	0.68982	0.65571	0.64940	0.63696	0.83472	0.75910
L6	14:15:13	0.71644	0.70821	0.66815	0.68349	0.67322	0.69426	0.71344	0.62582	0.70814	0.61119	0.68953	0.65578	0.64939	0.63681	0.83473	0.75893
L6	14:17:08	0.71646	0.70820	0.66809	0.68349	0.67323	0.69422	0.71338	0.62582	0.70799	0.61111	0.68940	0.65578	0.64937	0.63676	0.83469	0.75897
L7	14:18:43	0.71647	0.70806	0.66832	0.68359	0.67313	0.69367	0.71220	0.62515	0.70640	0.60940	0.68724	0.65303	0.64664	0.63408	0.83086	0.75557
L7	14:19:14	0.71645	0.70806	0.66828	0.68360	0.67312	0.69366	0.71217	0.62514	0.70636	0.60936	0.68725	0.65296	0.64669	0.63408	0.83085	0.75564
L7	14:20:15	0.71650	0.70808	0.66825	0.68358	0.67310	0.69360	0.71213	0.62508	0.70625	0.60925	0.68716	0.65289	0.64655	0.63386	0.83081	0.75549

Table F.19 continued

VIBRATING WIRE INSTRUMENT READINGS - STRAIN

AUC 6 LOAD NUMBER	TIME	VW STRN FREQ^2 KHZ^2 13	VW STRN FREQ^2 KHZ^2 14	VW STRN FREQ^2 KHZ^2 15	VW STRN FREQ^2 KHZ^2 16	VW STRN FREQ^2 KHZ^2 3	VW STRN FREQ^2 KHZ^2 4	VW STRN FREQ^2 KHZ^2 17	VW STRN FREQ^2 KHZ^2 18	VW STRN FREQ^2 KHZ^2 7	VW STRN FREQ KHZ^2 8	VW STRN FREQ KHZ^2 35	VW STRN FREQ KHZ^2 36	VW STRN FREQ KHZ^2 21	VW STRN FREQ KHZ^2 22	VW STRN FREQ KHZ^2 41	VW STRN FREQ KHZ^2 42
L7	14:22:13	0.71654	0.70807	0.66809	0.68348	0.67309	0.69347	0.71205	0.62501	0.70613	0.60913	0.68698	0.65294	0.64657	0.63370	0.83072	0.75535
L8	14:24:25	0.71663	0.70793	0.66711	0.68237	0.67205	0.69248	0.71088	0.62357	0.71634	0.60740	0.68387	0.65055	0.64367	0.63098	0.82687	0.75171
L8	14:24:56	0.71657	0.70794	0.66713	0.68235	0.67210	0.69243	0.71086	0.62356	0.71635	0.60735	0.68389	0.65054	0.64367	0.63100	0.82690	0.75178
L8	14:25:49	0.71659	0.70793	0.66712	0.68233	0.67212	0.69236	0.71091	0.62347	0.71489	0.60721	0.68377	0.65052	0.64367	0.63087	0.82670	0.75158
L8	14:27:48	0.71660	0.70793	0.66712	0.68228	0.67202	0.69224	0.71092	0.62341	0.71604	0.60706	0.68328	0.65050	0.64346	0.63076	0.82648	0.75133
L9	14:29:33	0.71677	0.70780	0.66610	0.68142	0.67115	0.69159	0.70971	0.62292	0.71452	0.60532	0.68142	0.64783	0.64051	0.62796	0.82276	0.74757
L9	14:30:04	0.71670	0.70780	0.66603	0.68138	0.67119	0.69153	0.70966	0.62286	0.71446	0.60520	0.68106	0.64775	0.64051	0.62790	0.82258	0.74734
L9	14:31:03	0.71669	0.70781	0.66597	0.68136	0.67120	0.69144	0.70960	0.62288	0.71429	0.60512	0.68093	0.64776	0.64054	0.62790	0.82267	0.74747
L9	14:33:05	0.71674	0.70782	0.66596	0.68134	0.67111	0.69128	0.70951	0.62281	0.69104	0.60500	0.68055	0.64761	0.64034	0.62787	0.82247	0.74723
L10	14:34:41	0.71685	0.70764	0.66587	0.68157	0.67017	0.69052	0.70852	0.62155	-99999	0.60333	0.67809	0.64541	0.63725	0.62503	0.81864	0.74384
L10	14:35:12	0.71686	0.70762	0.66584	0.68143	0.66999	0.69044	0.70842	0.62145	-99999	0.60308	0.67769	0.64526	0.63725	0.62503	0.81867	0.74397
L10	14:36:10	0.71686	0.70763	0.66571	0.68137	0.66987	0.69038	0.70826	0.62142	-99999	0.60293	0.67743	0.64515	0.63700	0.62493	0.81858	0.74381
L10	14:38:11	0.71685	0.70764	0.66567	0.68128	0.66969	0.69025	0.70811	0.62138	-99999	0.60274	0.67716	0.64513	0.63682	0.62475	0.81854	0.74365
L11	14:39:52	0.71696	0.70731	0.66501	0.68016	0.66909	0.68969	0.70729	0.62059	-99999	0.60086	0.67478	0.64244	0.63368	0.62197	0.81466	0.73957
L11	14:40:23	0.71701	0.70738	0.66491	0.68011	0.66909	0.68958	0.70718	0.62044	-99999	0.60071	0.67476	0.64244	0.63370	0.62198	0.81465	0.73971
L11	14:41:22	0.71699	0.70733	0.66484	0.68007	0.66910	0.68948	0.70699	0.62032	-99999	0.60054	0.67477	0.64233	0.63360	0.62181	0.81473	0.73955
L11	14:43:28	0.71693	0.70738	0.66473	0.68005	0.66902	0.68934	0.70675	0.62020	-99999	0.60035	0.67408	0.64218	0.63355	0.62165	0.81463	0.73945
L12	14:45:05	0.71712	0.70709	0.66491	0.68011	0.66798	0.68813	0.70568	0.61926	0.70813	0.59843	0.67106	0.63992	0.63072	0.61909	0.81071	0.73621
L12	14:45:36	0.71712	0.70705	0.66482	0.68003	0.66784	0.68810	0.70568	0.61920	0.70801	0.59823	0.67183	0.63978	0.63025	0.61882	0.81042	0.73602
L12	14:46:38	0.71714	0.70708	0.66462	0.67998	0.66768	0.68810	0.70586	0.61911	0.70800	0.59803	0.67193	0.63970	0.63016	0.61883	0.81055	0.73603
L12	14:48:35	0.71707	0.70708	0.66451	0.67997	0.66752	0.68808	0.70545	0.61893	0.70760	0.59773	0.67132	0.63944	0.62997	0.61866	0.81032	0.73599
L13	14:50:39	0.71709	0.70685	0.66385	0.67917	0.66689	0.68727	0.70404	0.61808	0.70599	0.59570	0.66857	0.63676	0.62701	0.61615	0.80635	0.73224
L13	14:51:10	0.71710	0.70685	0.66376	0.67911	0.66700	0.68706	0.70398	0.61802	0.70594	0.59550	0.66861	0.63672	0.62690	0.61612	0.80634	0.73228
L13	14:52:10	0.71711	0.70684	0.66369	0.67914	0.66703	0.68689	0.70388	0.61796	0.70587	0.59605	0.66850	0.63670	0.62688	0.61605	0.80642	0.73216
L13	14:54:09	0.71710	0.70689	0.66375	0.67912	0.66692	0.68668	0.70364	0.61779	0.70564	0.59547	0.66790	0.63656	0.62651	0.61577	0.80620	0.73216
L14	14:55:40	0.71697	0.70668	0.66368	0.67823	0.66600	0.68573	0.70263	0.61663	0.70393	0.59352	0.66486	0.63385	0.62354	0.61305	0.80244	0.72856
L14	14:56:11	0.71700	0.70662	0.66366	0.67815	0.66555	0.68563	0.70244	0.61667	0.70374	0.59344	0.66498	0.63374	0.62346	0.61294	0.80234	0.72850
L14	14:57:15	0.71695	0.70668	0.66358	0.67807	0.66518	0.68553	0.70223	0.61654	0.70348	0.59308	0.66486	0.63362	0.62330	0.61281	0.80224	0.72851
L14	14:59:12	0.71699	0.70669	0.66353	0.67802	0.66517	0.68566	0.70221	0.61651	0.70333	0.59287	0.66516	0.63342	0.62307	0.61272	0.80204	0.72855
L15	15:00:42	0.71645	0.70658	0.66329	0.67766	0.66412	0.68456	0.70082	0.61513	0.70145	0.59079	0.66203	0.63105	0.62029	0.61037	0.79817	0.72546
L15	15:01:13	0.71651	0.70656	0.66307	0.67770	0.66389	0.68442	0.70068	0.61517	0.70137	0.59056	0.66164	0.63097	0.62018	0.61039	0.79811	0.72540
L15	15:02:12	0.71648	0.70655	0.66293	0.67777	0.66446	0.68429	0.70066	0.61516	0.70128	0.59040	0.66149	0.63092	0.62012	0.61040	0.79805	0.72546
L15	15:04:12	0.71669	0.70657	0.66287	0.67769	0.66460	0.68417	0.70070	0.61516	0.70117	0.59014	0.66121	0.63064	0.61982	0.61035	0.79783	0.72541
L16	15:05:56	0.71517	0.70647	0.66154	0.67717	0.66338	0.68348	0.69926	0.61405	0.69957	0.58800	0.65833	0.62804	0.61670	0.60736	0.79407	0.72228
L16	15:06:27	0.71511	0.70646	0.66153	0.67720	0.66338	0.68342	0.69920	0.61403	0.69943	0.58791	0.65822	0.62804	0.61673	0.60745	0.79413	0.72236
L16	15:07:27	0.71516	0.70650	0.66145	0.67726	0.66342	0.68335	0.69910	0.61398	0.69919	0.58788	0.65865	0.62805	0.61659	0.60719	0.79382	0.72229
L16	15:09:28	0.71515	0.70647	0.66155	0.67736	0.66340	0.68330	0.69902	0.61397	0.69901	0.58770	0.65835	0.62797	0.61644	0.60708	0.79358	0.72236
L17	15:11:04	0.71525	0.70643	0.66096	0.67650	0.66231	0.68235	0.69771	0.61275	0.69733	0.58557	0.65579	0.62513	0.61349	0.60409	0.78932	0.71861
L17	15:11:35	0.71522	0.70642	0.66098	0.67657	0.66231	0.68234	0.69767	0.61275	0.69731	0.58559	0.65558	0.62511	0.61342	0.60406	0.78920	0.71910
L17	15:12:40	0.71522	0.70647	0.66108	0.67646	0.66235	0.68232	0.69761	0.61279	0.69716	0.58545	0.65526	0.62507	0.61329	0.60403	0.78930	0.71859
L17	15:14:34	0.71522	0.70648	0.66128	0.67653	0.66243	0.68234	0.69758	0.61289	0.69710	0.58525	0.65504	0.62504	0.61319	0.60404	0.78919	0.71866
L18	15:16:05	0.71505	0.70643	0.66090	0.67588	0.66130	0.68139	0.69641	0.61220	0.69535	0.58297	0.65242	0.62292	0.61022	0.60174	0.78563	0.71600
L18	15:16:36	0.71507	0.70643	0.66093	0.67593	0.66139	0.68138	0.69641	0.61220	0.69529	0.58298	0.65250	0.62296	0.61020	0.60175	0.78564	0.71597

Table F.19 continued

VIBRATING WIRE INSTRUMENT READINGS - STRAIN

AUC 6 LOAD NUMBER	TIME	VW STRN FREQ^2 KHZ^2 13	VW STRN FREQ^2 KHZ^2 14	VW STRN FREQ^2 KHZ^2 15	VW STRN FREQ^2 KHZ^2 16	VW STRN FREQ^2 KHZ^2 3	VW STRN FREQ^2 KHZ^2 4	VW STRN FREQ^2 KHZ^2 17	VW STRN FREQ^2 KHZ^2 18	VW STRN FREQ^2 KHZ^2 7	VW STRN FREQ KHZ^2 8	VW STRN FREQ KHZ^2 35	VW STRN FREQ KHZ^2 36	VW STRN FREQ KHZ^2 21	VW STRN FREQ KHZ^2 22	VW STRN FREQ KHZ^2 41	VW STRN FREQ KHZ^2 42
L18	15:17:35	0.71510	0.70644	0.66089	0.67598	0.66149	0.68136	0.69641	0.61221	0.69511	0.58297	0.65242	0.62278	0.61035	0.60166	0.78530	0.71583
L18	15:19:36	0.71513	0.70644	0.66079	0.67606	0.66151	0.68128	0.69642	0.61216	0.69498	0.58276	0.65220	0.62258	0.61049	0.60162	0.78526	0.71573
L19	15:21:33	0.71508	0.70629	0.66028	0.67615	0.66057	0.68032	0.69564	0.61053	0.69362	0.58112	0.64936	0.62029	0.60641	0.59930	0.78142	0.71104
L19	15:22:04	0.71514	0.70628	0.66031	0.67623	0.66061	0.68033	0.69563	0.61046	0.69338	0.58101	0.64871	0.62011	0.60595	0.60046	0.78095	0.71106
L19	15:23:04	0.71525	0.70625	0.66000	0.67625	0.66063	0.68036	0.69566	0.61060	0.69369	0.58111	0.64855	0.62031	0.60605	0.60056	0.78094	0.71087
L19	15:25:03	0.71514	0.70627	0.66004	0.67633	0.66102	0.68038	0.69563	0.61067	0.69396	0.58113	0.64839	0.62052	0.60587	0.60056	0.78091	0.71043
L20	15:26:44	0.71515	0.70617	0.65979	0.67609	0.66080	0.68004	0.69491	0.61023	0.69343	0.58025	0.64716	0.61969	0.60432	0.59759	0.77890	0.70849
L20	15:27:15	0.71526	0.70616	0.65972	0.67618	0.66092	0.68002	0.69502	0.61015	0.69356	0.58029	0.64705	0.61987	0.60454	0.59775	0.77891	0.70852
L20	15:28:14	0.71561	0.70619	0.65952	0.67620	0.66094	0.68004	0.69494	0.61016	0.69373	0.58028	0.64682	0.61998	0.60425	0.59771	0.77884	0.70829
L20	15:30:14	0.71689	0.70619	0.65869	0.67631	0.66066	0.68003	0.69498	0.61016	0.69402	0.58038	0.64636	0.62033	0.60421	0.59784	0.77885	0.70824
L21	15:31:55	0.71697	0.70584	0.65884	0.67631	0.66093	0.67973	0.69489	0.61018	0.69401	0.58010	0.64597	0.62029	0.60368	0.59757	0.77801	0.70732
L21	15:32:26	0.71701	0.70564	0.65876	0.67624	0.66091	0.67958	0.69491	0.61027	0.69383	0.57997	0.64578	0.62029	0.60361	0.59754	0.77793	0.70729
L21	15:33:31	0.71705	0.70544	0.65872	0.67631	0.66088	0.67961	0.69490	0.61021	0.69418	0.58006	0.64565	0.62043	0.60360	0.59767	0.77790	0.70714
L21	15:34:54	0.71699	0.70546	0.65859	0.67633	0.66075	0.67957	0.69488	0.61018	0.69426	0.57998	0.64550	0.62058	0.60368	0.59763	0.77772	0.70676
L21	15:35:25	0.71709	0.70549	0.65828	0.67632	0.66086	0.67947	0.69489	0.61022	0.69428	0.57992	0.64531	0.62058	0.60363	0.59763	0.77769	0.70671
L22	15:37:09	0.71709	0.70541	0.65826	0.67616	0.65996	0.67911	0.69450	0.61042	0.69404	0.57957	0.64450	0.62028	0.60383	0.59708	0.77711	0.70582
L22	15:37:40	0.71711	0.70529	0.65827	0.67622	0.66004	0.67912	0.69452	0.61041	0.69419	0.57955	0.64440	0.62037	0.60378	0.59710	0.77706	0.70584
L22	15:38:48	0.71714	0.70520	0.65752	0.67627	0.66064	0.67908	0.69454	0.61036	0.69431	0.57953	0.64433	0.62060	0.60392	0.59727	0.77713	0.70579
L22	15:39:45	0.71712	0.70513	0.65716	0.67627	0.66050	0.67903	0.69451	0.61037	0.69443	0.57954	0.64414	0.62075	0.60384	0.59731	0.77706	0.70583
L22	15:40:39	0.71713	0.70508	0.65772	0.67628	0.66077	0.67899	0.69451	0.61036	0.69457	0.57954	0.64424	0.62095	0.60389	0.59744	0.77718	0.70578
U1	15:44:20	0.71707	0.70522	0.65793	0.67645	0.66176	0.67999	0.69575	0.61170	0.69622	0.58127	0.64710	0.62350	0.60585	0.60069	0.78091	0.70973
U2	15:49:03	0.71678	0.70549	0.65973	0.67782	0.66340	0.68197	0.69813	0.61361	0.69972	0.58543	0.65366	0.62956	0.61410	0.60747	0.79289	0.72059
U3	15:53:05	0.71688	0.70630	0.66168	0.67999	0.66605	0.68415	0.70155	0.61608	0.70392	0.58988	0.66120	0.63673	0.62343	0.61518	0.80507	0.73241
U4	15:57:03	0.71809	0.70684	0.66243	0.68202	0.66862	0.68692	0.70444	0.61869	0.70820	0.59507	0.66936	0.64379	0.63298	0.62317	0.81720	0.74419
U5	16:01:33	0.71967	0.70823	0.66508	0.68404	0.67144	0.69057	0.70901	0.62294	0.71474	0.60205	0.67978	0.65291	0.64426	0.63364	0.83266	0.75774
U6	16:05:30	0.71926	0.70889	0.66796	0.68725	0.67518	0.69465	0.71380	0.62724	0.72130	0.60957	0.69025	0.66248	0.65449	0.64421	0.84813	0.77101
U7	16:10:00	0.72128	0.71013	0.67172	0.69103	0.68074	0.70031	0.72044	0.63318	0.73152	0.61981	0.70395	0.67445	0.66846	0.65829	0.86679	0.78694
U7A	16:13:04	0.72130	0.71030	0.67203	0.69103	0.68076	0.70050	0.72059	0.63335	0.73172	0.61996	0.70412	0.67465	0.66878	0.65793	0.86692	0.78710
U7A	16:28:04	0.72132	0.71048	0.67243	0.69103	0.68076	0.70080	0.72072	0.63349	0.73192	0.62020	0.70358	0.67504	0.66700	0.65792	0.86726	0.78747
U7A	16:43:04	0.72134	0.71055	0.67297	0.69102	0.68077	0.70094	0.72081	0.63353	0.73198	0.62030	0.70359	0.67509	0.66706	0.65805	0.86739	0.78756
U7A	16:58:04	0.72135	0.71057	0.67309	0.69102	0.68074	0.70102	0.72084	0.63355	0.73200	0.62036	0.70434	0.67509	0.66710	0.65812	0.86740	0.78753
U7A	17:04:46	0.72135	0.71058	0.67315	0.69102	0.68077	0.70099	0.72096	0.63357	0.73205	0.62041	0.70475	0.67508	0.66721	0.65819	0.86746	0.78751

Table F.19 continued

VIBRATING WIRE INSTRUMENT READINGS - TEMPERATURE

AUC 6 LOAD NUMBER	TIME	VW STRN TEMP DEG C 13	VW STRN TEMP DEG C 14	VW STRN TEMP DEG C 15	VW STRN TEMP DEG C 16	VW STRN TEMP DEG C 3	VW STRN TEMP DEG C 4	VW STRN TEMP DEG C 17	VW STRN TEMP DEG C 18	VW STRN TEMP DEG C 7	VW STRN TEMP DEG C 8	VW STRN TEMP DEG C 35	VW STRN TEMP DEG C 36	VW STRN TEMP DEG C 21	VW STRN TEMP DEG C 22	VW STRN TEMP DEG C 41	VW STRN TEMP DEG C 42
L0	12:09:42	16.393	19.232	17.553	18.817	17.495	16.364	18.374	16.105	17.175	16.162	14.675	14.618	15.188	14.363	10.470	16.393
L0	12:10:37	16.422	19.202	17.553	18.817	17.495	16.335	18.374	16.105	17.204	16.162	14.675	14.590	15.188	14.334	10.470	16.393
L0	12:11:24	16.420	19.230	17.551	18.815	17.493	16.362	18.372	16.103	17.231	16.132	14.673	14.616	15.186	14.361	10.468	16.391
L0	12:14:09	16.420	19.230	17.551	18.813	17.492	16.361	18.371	16.073	17.230	16.159	14.672	14.615	15.185	14.360	10.467	16.361
L0	12:15:44	16.419	19.258	17.550	18.784	17.492	16.361	18.371	16.073	17.200	16.159	14.672	14.587	15.185	14.360	10.467	16.361
L0	12:19:04	16.417	19.228	17.549	18.812	17.490	16.360	18.369	16.101	17.199	16.158	14.671	14.586	15.184	14.359	10.466	16.360
L0	12:21:57	16.417	19.227	17.577	18.811	17.490	16.330	18.368	16.100	-55.519	16.128	14.670	14.613	15.183	14.358	10.465	16.388
L0	12:24:33	16.414	19.224	17.575	18.809	17.487	16.356	18.366	16.097	17.225	16.155	14.668	14.611	15.180	14.355	10.463	16.385
L0	12:39:47	16.407	19.217	17.568	18.801	17.480	16.350	18.359	16.091	17.189	16.148	14.661	14.605	15.174	14.349	10.458	16.379
L0	12:42:52	16.407	19.186	17.567	18.801	17.480	16.320	18.358	16.090	17.218	16.119	14.661	14.604	15.173	14.349	10.457	16.378
L0	12:57:52	16.405	19.244	17.565	18.769	17.478	16.347	18.356	16.088	17.187	16.146	14.659	14.602	15.172	14.347	10.455	16.405
L0	13:01:49	16.405	19.244	17.565	18.799	17.477	16.347	18.356	16.088	17.215	16.146	14.659	14.602	15.171	14.347	10.455	16.376
L0	13:02:22	16.405	19.244	17.565	18.799	17.477	16.347	18.356	16.088	17.215	16.117	14.659	14.602	15.171	14.347	10.455	16.376
L0	13:04:21	16.405	19.214	17.565	18.798	17.477	16.347	18.356	16.088	17.215	16.145	14.630	14.602	15.171	14.347	10.428	16.376
L0	13:19:21	16.404	19.243	17.564	18.798	17.477	16.347	18.356	16.059	17.215	16.145	14.659	14.602	15.143	14.346	10.455	16.376
L0	13:27:29	16.404	19.213	17.535	18.798	17.477	16.347	18.355	16.088	17.215	16.145	14.658	14.602	15.171	14.346	10.455	16.375
L1	13:32:35	16.404	19.243	17.535	18.798	17.477	16.347	18.355	16.088	17.215	16.145	14.658	14.602	15.171	14.346	10.455	16.347
L1	13:33:06	16.404	19.243	17.564	18.798	17.477	16.347	18.355	16.088	17.215	16.145	14.658	14.573	15.171	14.346	10.455	16.375
L1	13:34:05	16.404	19.213	17.564	18.798	17.477	16.347	18.355	16.088	17.215	16.145	14.658	14.602	15.171	14.346	10.455	16.375
L1	13:36:05	16.404	19.184	17.564	18.798	17.477	16.318	18.355	16.088	17.215	16.145	14.658	14.602	15.171	14.346	10.455	16.375
L2	13:38:17	16.404	19.243	17.564	18.768	17.477	16.347	18.355	16.059	17.215	16.145	14.658	14.602	15.171	14.346	10.455	16.375
L2	13:38:48	16.404	19.213	17.564	18.798	17.477	16.347	18.355	16.088	17.186	16.145	14.658	14.602	15.171	14.346	10.455	16.375
L2	13:39:47	16.404	19.243	17.564	18.798	17.477	16.347	18.355	16.088	17.215	16.145	14.658	14.602	15.171	14.346	10.455	16.375
L2	13:41:48	16.404	19.213	17.564	18.798	17.477	16.347	18.355	16.088	17.215	16.145	14.658	14.602	15.171	14.346	10.455	16.347
L3	13:55:54	16.404	19.213	17.564	18.798	17.477	16.347	18.355	16.087	17.215	16.145	14.658	14.602	15.171	14.346	10.455	16.375
L3	13:56:25	16.404	19.243	17.564	18.768	17.477	16.347	18.355	16.059	17.215	16.145	14.658	14.602	15.171	14.346	10.455	16.375
L3	13:57:24	16.406	19.185	17.566	18.800	17.479	16.348	18.328	16.089	17.217	16.147	14.632	14.603	15.173	14.348	10.456	16.377
L3	14:00:40	16.406	19.215	17.566	18.770	17.478	16.348	18.357	16.089	17.216	16.146	14.660	14.603	15.144	14.347	10.484	16.406
L4	14:02:42	16.406	19.244	17.536	18.799	17.478	16.348	18.357	16.060	17.216	16.146	14.659	14.574	15.172	14.347	10.483	16.377
L4	14:03:13	16.405	19.214	17.565	18.799	17.478	16.348	18.357	16.089	17.216	16.146	14.659	14.603	15.143	14.347	10.456	16.405
L4	14:04:12	16.405	19.214	17.565	18.799	17.478	16.348	18.386	16.089	17.216	16.146	14.659	14.603	15.172	14.347	10.483	16.405
L4	14:06:12	16.405	19.244	17.565	18.799	17.478	16.347	18.356	16.088	17.216	16.146	14.659	14.602	15.172	14.347	10.483	16.405
L5	14:08:23	16.405	19.244	17.565	18.799	17.449	16.347	18.356	16.088	17.187	16.146	14.659	14.602	15.172	14.347	10.483	16.376
L5	14:08:54	16.376	19.244	17.565	18.799	17.478	16.318	18.356	16.088	17.216	16.117	14.659	14.602	15.172	14.375	10.483	16.405
L5	14:09:53	16.405	19.244	17.565	18.769	17.478	16.347	18.356	16.088	17.216	16.146	14.659	14.602	15.172	14.347	10.455	16.405
L5	14:11:52	16.405	19.244	17.565	18.769	17.477	16.347	18.356	16.088	17.215	16.146	14.659	14.602	15.143	14.347	10.483	16.405
L6	14:13:39	16.405	19.214	17.536	18.799	17.477	16.347	18.356	16.088	17.215	16.146	14.659	14.602	15.171	14.347	10.483	16.376
L6	14:14:10	16.405	19.244	17.536	18.799	17.477	16.347	18.356	16.088	17.215	16.146	14.659	14.602	15.171	14.347	10.455	16.405
L6	14:15:13	16.405	19.243	17.565	18.769	17.477	16.347	18.356	16.088	17.215	16.145	14.659	14.602	15.143	14.347	10.483	16.405
L6	14:17:08	16.405	19.184	17.565	18.799	17.477	16.347	18.326	16.088	17.215	16.145	14.659	14.602	15.171	14.346	10.483	16.376
L7	14:18:43	16.405	19.243	17.536	18.798	17.477	16.347	18.326	16.088	17.215	16.145	14.659	14.573	15.171	14.346	10.483	16.376
L7	14:19:14	16.405	19.243	17.565	18.798	17.477	16.347	18.356	16.059	17.215	16.145	14.659	14.602	15.171	14.375	10.483	16.405
L7	14:20:15	16.405	19.214	17.565	18.798	17.448	16.347	18.356	16.088	17.215	16.145	14.687	14.602	15.171	14.346	10.483	16.405

Table F.19 continued

VIBRATING WIRE INSTRUMENT READINGS - TEMPERATURE

AUC 6 LOAD NUMBER	TIME	VW STRN TEMP DEG C 13	VW STRN TEMP DEG C 14	VW STRN TEMP DEG C 15	VW STRN TEMP DEG C 16	VW STRN TEMP DEG C 3	VW STRN TEMP DEG C 4	VW STRN TEMP DEG C 17	VW STRN TEMP DEG C 18	VW STRN TEMP DEG C 7	VW STRN TEMP DEG C 8	VW STRN TEMP DEG C 35	VW STRN TEMP DEG C 36	VW STRN TEMP DEG C 21	VW STRN TEMP DEG C 22	VW STRN TEMP DEG C 41	VW STRN TEMP DEG C 42
L7	14:22:13	16.405	19.184	17.565	18.798	17.477	16.318	18.356	16.088	17.215	16.145	14.659	14.602	15.171	14.346	10.483	16.405
L8	14:24:25	16.404	19.243	17.565	18.798	17.477	16.347	18.356	16.059	17.215	16.145	14.659	14.602	15.171	14.375	10.483	16.404
L8	14:24:56	16.404	19.243	17.565	18.769	17.477	16.347	18.356	16.088	17.215	16.145	14.659	14.602	15.171	14.375	10.483	16.404
L8	14:25:49	16.404	19.213	17.565	18.798	17.477	16.318	18.356	16.088	17.215	16.145	14.659	14.602	15.171	14.375	10.483	16.404
L8	14:27:48	16.404	19.243	17.565	18.798	17.477	16.347	18.356	16.088	17.215	16.145	14.659	14.602	15.171	14.375	10.483	16.376
L9	14:29:33	16.404	19.213	17.565	18.798	17.477	16.318	18.385	16.088	17.215	16.145	14.687	14.602	15.171	14.375	10.483	16.404
L9	14:30:04	16.404	19.243	17.565	18.798	17.477	16.347	18.356	16.088	17.215	16.145	14.687	14.602	15.171	14.375	10.483	16.376
L9	14:31:03	16.404	19.213	17.565	18.798	17.448	16.347	18.356	16.088	17.186	16.145	14.658	14.602	15.171	14.375	10.483	16.404
L9	14:33:05	16.404	19.213	17.564	18.798	17.477	16.347	18.356	16.088	17.215	16.145	14.658	14.602	15.171	14.375	10.483	16.404
L10	14:34:41	16.404	19.243	17.564	18.769	17.477	16.347	18.356	16.059	17.215	16.145	14.687	14.602	15.171	14.375	10.483	16.404
L10	14:35:12	16.404	19.213	17.564	18.769	17.477	16.347	18.356	16.088	17.215	16.145	14.687	14.602	15.171	14.375	10.483	16.404
L10	14:36:10	16.404	19.243	17.564	18.798	17.477	16.347	18.385	16.088	17.186	16.145	14.687	14.602	15.171	14.346	10.483	16.404
L10	14:38:11	16.404	19.213	17.535	18.798	17.477	16.347	18.356	16.088	17.186	16.145	14.687	14.573	15.171	14.375	10.483	16.376
L11	14:39:52	16.404	19.213	17.564	18.769	17.477	16.347	18.356	16.088	17.215	16.145	14.687	14.602	15.142	14.346	10.483	16.404
L11	14:40:23	16.404	19.243	17.564	18.798	17.477	16.347	18.385	16.088	17.186	16.145	14.687	14.602	15.171	14.346	10.483	16.404
L11	14:41:22	16.404	19.243	17.535	18.798	17.477	16.347	18.355	16.088	17.215	16.145	14.658	14.602	15.171	14.375	10.483	16.404
L11	14:43:28	16.404	19.243	17.564	18.768	17.477	16.347	18.385	16.088	17.215	16.145	14.687	14.602	15.169	14.373	10.481	16.403
L12	14:45:05	16.403	19.211	17.563	18.767	17.475	16.345	18.383	16.057	17.213	16.143	14.685	14.600	15.141	14.373	10.481	16.403
L12	14:45:36	16.403	19.241	17.563	18.767	17.475	16.345	18.383	16.086	17.213	16.143	14.685	14.600	15.169	14.373	10.481	16.403
L12	14:46:38	16.374	19.211	17.563	18.796	17.475	16.374	18.383	16.086	17.214	16.115	14.685	14.600	15.170	14.345	10.481	16.403
L12	14:48:35	16.403	19.212	17.563	18.797	17.475	16.345	18.383	16.086	17.214	16.144	14.685	14.572	15.170	14.345	10.481	16.403
L13	14:50:39	16.403	19.212	17.563	18.797	17.476	16.346	18.384	16.086	17.185	16.144	14.686	14.601	15.170	14.373	10.482	16.403
L13	14:51:10	16.374	19.212	17.563	18.797	17.476	16.374	18.384	16.086	17.214	16.144	14.686	14.601	15.170	14.373	10.482	16.403
L13	14:52:10	16.403	19.212	17.563	18.797	17.476	16.374	18.384	16.086	17.214	16.144	14.686	14.601	15.170	14.373	10.482	16.403
L13	14:54:09	16.403	19.212	17.563	18.768	17.476	16.346	18.354	16.087	17.214	16.144	14.686	14.601	15.170	14.374	10.482	16.403
L14	14:55:40	16.404	19.183	17.564	18.797	17.476	16.375	18.355	16.087	17.214	16.144	14.658	14.601	15.170	14.374	10.482	16.404
L14	14:56:11	16.404	19.242	17.564	18.797	17.476	16.346	18.384	16.116	17.214	16.144	14.686	14.601	15.170	14.345	10.482	16.375
L14	14:57:15	16.404	19.212	17.564	18.797	17.476	16.375	18.355	16.087	17.214	16.144	14.686	14.572	15.170	14.374	10.482	16.404
L14	14:59:12	16.404	19.213	17.564	18.797	17.476	16.346	18.355	16.116	17.185	16.144	14.686	14.601	15.142	14.374	10.482	16.404
L15	15:00:42	16.404	19.242	17.535	18.797	17.476	16.375	18.384	16.087	17.214	16.144	14.686	14.573	15.170	14.374	10.482	16.404
L15	15:01:13	16.404	19.213	17.564	18.797	17.476	16.375	18.384	16.116	17.214	16.145	14.686	14.601	15.170	14.374	10.482	16.404
L15	15:02:12	16.404	19.183	17.564	18.798	17.476	16.375	18.355	16.087	17.214	16.145	14.686	14.601	15.170	14.374	10.482	16.404
L15	15:04:12	16.404	19.213	17.564	18.798	17.476	16.375	18.353	16.085	17.213	16.143	14.656	14.600	15.169	14.372	10.481	16.402
L16	15:05:56	16.402	19.211	17.562	18.796	17.475	16.373	18.353	16.085	17.213	16.143	14.656	14.600	15.169	14.372	10.481	16.402
L16	15:06:27	16.402	19.241	17.533	18.796	17.475	16.373	18.353	16.114	17.213	16.143	14.685	14.600	15.169	14.372	10.481	16.402
L16	15:07:27	16.403	19.211	17.563	18.796	17.475	16.374	18.383	16.115	17.213	16.143	14.685	14.600	15.169	14.373	10.481	16.403
L16	15:09:28	16.403	19.211	17.563	18.796	17.475	16.374	18.383	16.086	17.213	16.143	14.685	14.600	15.169	14.345	10.481	16.403
L17	15:11:04	16.403	19.241	17.563	18.767	17.475	16.374	18.383	16.086	17.184	16.144	14.685	14.600	15.141	14.373	10.481	16.403
L17	15:11:35	16.403	19.212	17.563	18.797	17.446	16.374	18.383	16.115	17.184	16.144	14.685	14.600	15.170	14.373	10.481	16.403
L17	15:12:40	16.403	19.241	17.563	18.767	17.475	16.374	18.383	16.086	17.184	16.144	14.685	14.600	15.170	14.373	10.481	16.403
L17	15:14:34	16.403	19.212	17.534	18.797	17.476	16.374	18.384	16.086	17.214	16.144	14.686	14.601	15.170	14.373	10.482	16.403
L18	15:16:05	16.403	19.242	17.563	18.797	17.476	16.346	18.384	16.087	17.214	16.144	14.686	14.601	15.170	14.374	10.482	16.403
L18	15:16:36	16.403	19.212	17.563	18.797	17.476	16.375	18.384	16.087	17.214	16.144	14.686	14.601	15.170	14.374	10.482	16.403

Table F.19 continued

VIBRATING WIRE INSTRUMENT READINGS - TEMPERATURE

AUC 6 LOAD NUMBER	TIME	VW STRN TEMP DEG C 13	VW STRN TEMP DEG C 14	VW STRN TEMP DEG C 15	VW STRN TEMP DEG C 16	VW STRN TEMP DEG C 3	VW STRN TEMP DEG C 4	VW STRN TEMP DEG C 17	VW STRN TEMP DEG C 18	VW STRN TEMP DEG C 7	VW STRN TEMP DEG C 8	VW STRN TEMP DEG C 35	VW STRN TEMP DEG C 36	VW STRN TEMP DEG C 21	VW STRN TEMP DEG C 22	VW STRN TEMP DEG C 41	VW STRN TEMP DEG C 42
L18	15:17:35	16.403	19.242	17.563	18.797	17.476	16.375	18.384	16.087	17.214	16.144	14.686	14.601	15.170	14.374	10.482	16.403
L18	15:19:36	16.404	19.213	17.564	18.797	17.476	16.375	18.384	16.087	17.214	16.144	14.686	14.601	15.170	14.374	10.482	16.404
L19	15:21:33	16.404	19.183	17.564	18.797	17.476	16.346	18.384	16.087	17.214	16.144	14.658	14.601	15.170	14.374	10.482	16.404
L19	15:22:04	16.404	19.242	17.564	18.797	17.476	16.375	18.355	16.087	17.214	16.144	14.658	14.601	15.170	14.374	10.482	16.404
L19	15:23:04	16.404	19.213	17.564	18.768	17.476	16.375	18.384	16.087	17.214	16.144	14.686	14.601	15.170	14.374	10.482	16.404
L19	15:25:03	16.404	19.213	17.564	18.798	17.476	16.346	18.384	16.116	17.214	16.145	14.686	14.601	15.170	14.374	10.482	16.404
L20	15:26:44	16.404	19.213	17.564	18.798	17.476	16.375	18.355	16.087	17.214	16.145	14.658	14.601	15.170	14.374	10.482	16.404
L20	15:27:15	16.404	19.213	17.535	18.798	17.476	16.375	18.384	16.116	17.214	16.145	14.686	14.601	15.170	14.374	10.482	16.404
L20	15:28:14	16.375	19.243	17.564	18.798	17.476	16.346	18.384	16.087	17.215	16.116	14.686	14.601	15.171	14.346	10.482	16.404
L20	15:30:14	16.404	19.213	17.564	18.798	17.476	16.375	18.384	16.087	17.215	16.145	14.686	14.601	15.171	14.374	10.482	16.404
L21	15:31:55	16.404	19.243	17.535	18.798	17.477	16.375	18.385	16.087	17.215	16.145	14.686	14.573	15.171	14.374	10.482	16.375
L21	15:32:26	16.404	19.213	17.564	18.798	17.477	16.375	18.385	16.087	17.215	16.145	14.686	14.601	15.171	14.374	10.482	16.404
L21	15:33:31	16.404	19.213	17.535	18.798	17.477	16.375	18.357	16.118	17.216	16.146	14.688	14.603	15.172	14.376	10.484	16.406
L21	15:34:54	16.377	19.245	17.566	18.800	17.478	16.377	18.386	16.089	17.216	16.146	14.688	14.603	15.172	14.376	10.484	16.406
L21	15:35:25	16.406	19.185	17.566	18.800	17.478	16.348	18.386	16.118	17.216	16.146	14.660	14.603	15.172	14.376	10.456	16.406
L22	15:37:09	16.405	19.185	17.566	18.799	17.478	16.377	18.386	16.089	17.216	16.146	14.660	14.603	15.172	14.376	10.456	16.405
L22	15:37:40	16.405	19.215	17.566	18.799	17.478	16.377	18.357	16.117	17.216	16.146	14.660	14.603	15.172	14.376	10.484	16.377
L22	15:38:48	16.405	19.215	17.566	18.770	17.478	16.377	18.386	16.117	17.187	16.146	14.688	14.603	15.144	14.376	10.484	16.405
L22	15:39:45	16.405	19.214	17.565	18.769	17.478	16.376	18.386	16.117	17.216	16.146	14.688	14.602	15.143	14.375	10.483	16.405
L22	15:40:39	16.405	19.244	17.565	18.799	17.478	16.376	18.386	16.117	17.216	16.146	14.688	14.602	15.172	14.375	10.483	16.405
U1	15:44:20	16.405	19.184	17.565	18.799	17.478	16.376	18.356	16.088	17.216	16.146	14.659	14.602	15.172	14.375	10.483	16.405
U2	15:49:03	16.405	19.214	17.565	18.799	17.477	16.347	18.385	16.088	17.215	16.146	14.687	14.602	15.171	14.347	10.483	16.405
U3	15:53:05	16.405	19.214	17.565	18.798	17.477	16.376	18.385	16.059	17.215	16.145	14.659	14.602	15.143	14.375	10.483	16.405
U4	15:57:03	16.405	19.214	17.565	18.798	17.448	16.347	18.356	16.088	17.215	16.145	14.659	14.602	15.171	14.375	10.483	16.405
U5	16:01:33	16.404	19.184	17.565	18.798	17.477	16.347	18.356	16.088	17.215	16.145	14.659	14.602	15.171	14.346	10.483	16.404
U6	16:05:30	16.377	19.215	17.537	18.800	17.479	16.349	18.357	16.089	17.217	16.147	14.660	14.603	15.173	14.348	10.484	16.406
U7	16:10:00	16.378	19.216	17.567	18.771	17.480	16.378	18.358	16.090	17.188	16.148	14.661	14.604	15.145	14.349	10.485	16.407
U7A	16:13:04	16.379	19.217	17.568	18.802	17.481	16.350	18.359	16.091	17.219	16.149	14.662	14.605	15.146	14.350	10.486	16.408
U7A	16:28:04	16.383	19.191	17.543	18.806	17.484	16.354	18.363	16.095	17.222	16.152	14.665	14.608	15.178	14.353	10.461	16.411
U7A	16:43:04	16.388	19.197	17.548	18.782	17.489	16.359	18.368	16.100	17.198	16.157	14.670	14.585	15.183	14.358	10.465	16.388
U7A	16:58:04	16.391	19.171	17.551	18.815	17.493	16.362	18.372	16.103	17.202	16.161	14.673	14.588	15.186	14.361	10.468	16.362
U7A	17:04:46	16.363	19.201	17.552	18.816	17.494	16.334	18.373	16.104	17.203	16.161	14.674	14.589	15.187	14.362	10.469	16.392

Table F.19 continued

VIBRATING WIRE CALCULATED STRAIN

AUC 6 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 13	VW STRN MICRO STRAIN 14	VW STRN MICRO STRAIN 15	VW STRN MICRO STRAIN 16	VW STRN MICRO STRAIN 3	VW STRN MICRO STRAIN 4	VW STRN MICRO STRAIN 17	VW STRN MICRO STRAIN 18	VW STRN MICRO STRAIN 7	VW STRN MICRO STRAIN 8	VW STRN MICRO STRAIN 35	VW STRN MICRO STRAIN 36	VW STRN MICRO STRAIN 21	VW STRN MICRO STRAIN 22	VW STRN MICRO STRAIN 41	VW STRN MICRO STRAIN 42
L0	12:09:42	-0.8	-0.5	-1.1	1.5	0.8	-0.2	-0.2	0.8	NG	-0.3	-1.4	-1.3	1.9	1.1	0.2	-0.2
L0	12:10:37	-0.9	-0.4	-1.1	1.5	0.8	-0.2	-0.2	0.8	NG	-0.3	-1.4	-1.3	1.9	1.1	0.2	-0.1
L0	12:11:24	-0.8	-0.5	-1.1	1.5	0.9	-0.2	-0.3	0.8	NG	-0.2	-1.5	-1.3	1.9	1.1	0.2	-0.1
L0	12:14:09	-0.8	-0.5	-1.0	1.7	0.8	-0.2	-0.2	0.9	NG	-0.2	-1.4	-1.4	1.9	1.1	0.2	-0.1
L0	12:15:44	-0.8	-0.5	-1.1	1.6	0.8	-0.2	-0.2	0.9	NG	-0.2	-1.4	-1.3	1.8	1.1	0.1	-0.1
L0	12:19:04	-0.8	-0.5	-1.1	1.5	0.8	-0.2	-0.2	0.8	NG	-0.2	-1.5	-1.3	1.8	1.1	0.2	-0.1
L0	12:21:57	-0.8	-0.5	-1.1	1.5	0.8	-0.1	-0.2	0.8	NG	NG	-1.4	-1.3	1.8	1.0	0.1	-0.1
L0	12:24:33	-0.8	-0.5	-1.1	1.5	0.8	-0.2	-0.1	0.8	NG	-0.2	-1.5	-1.3	1.8	1.1	0.2	-0.1
L0	12:39:47	-0.7	-0.9	-0.8	1.5	1.1	0.3	-1.0	0.9	NG	-0.2	-1.3	-1.7	1.5	1.2	0.1	-0.3
L0	12:42:52	-0.9	-1.0	-0.5	1.5	1.3	0.9	0.1	1.1	NG	-0.5	-0.8	-1.2	1.2	1.3	0.3	-0.2
L0	12:57:52	-0.9	-1.1	-0.5	1.6	1.3	0.8	-0.2	1.0	NG	-0.5	-0.8	-1.2	1.3	1.3	0.3	-0.3
L0	13:01:49	0.0	-0.0	-0.3	0.3	0.0	0.1	0.1	0.0	0.1	0.1	0.8	-0.1	-0.5	0.1	0.2	0.1
L0	13:02:22	-0.1	0.0	-0.3	-0.1	-0.0	0.0	0.0	-0.0	-0.2	0.1	0.2	0.0	-1.0	-0.0	0.0	-0.0
L0	13:04:21	-0.1	-0.1	-0.4	-0.1	-0.0	-0.1	0.1	0.0	0.0	0.0	0.9	-0.0	-1.0	-0.1	0.0	-0.0
L0	13:19:21	-0.1	-0.0	-0.4	0.3	-0.1	-0.1	0.1	0.1	-0.4	0.0	-0.0	-0.1	-1.1	-0.0	0.0	-0.0
L0	13:27:29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
L1	13:32:35	-0.6	0.3	0.5	2.6	1.9	2.4	0.5	2.7	2.8	3.5	1.7	3.8	9.0	6.7	16.3	13.3
L1	13:33:06	-0.2	0.5	0.6	2.2	2.0	2.5	0.6	2.7	3.0	3.4	1.7	3.8	8.9	6.6	16.1	13.3
L1	13:34:05	-0.2	0.3	0.5	2.0	1.7	2.4	0.6	2.7	2.9	3.5	1.7	3.8	9.1	6.9	16.4	13.3
L1	13:36:05	-0.2	0.4	0.6	2.1	1.8	2.4	0.6	2.7	3.0	3.5	1.8	3.9	9.1	7.0	16.4	13.4
L2	13:38:17	-1.2	0.9	3.6	4.5	4.1	4.6	5.3	5.3	7.6	8.2	12.1	11.7	18.0	18.0	36.3	28.4
L2	13:38:48	-1.1	1.0	3.4	4.5	4.1	4.7	5.3	5.4	7.9	8.3	12.6	12.5	18.9	18.4	36.4	28.5
L2	13:39:47	-1.1	1.0	3.7	4.5	4.0	4.7	5.2	5.2	7.8	8.2	12.3	12.2	18.5	18.3	36.5	28.3
L2	13:41:48	-1.1	1.2	3.5	4.5	4.0	4.7	5.2	5.4	7.8	8.3	12.6	12.5	18.7	18.4	36.5	28.4
L3	13:55:54	-0.7	0.7	1.7	6.9	5.3	6.6	7.7	7.2	12.5	14.1	24.5	21.7	28.7	30.7	56.0	44.9
L3	13:56:25	-0.8	0.8	1.7	7.1	5.2	6.5	7.7	7.3	12.4	14.1	24.2	21.7	27.9	30.6	55.8	44.8
L3	13:57:24	-0.7	0.8	1.8	6.3	5.4	6.8	7.9	7.3	12.9	14.5	25.8	23.1	32.8	31.8	56.3	45.5
L3	14:00:40	-0.8	0.8	1.7	7.0	5.4	6.7	7.9	7.3	12.8	14.5	25.7	22.8	32.7	31.7	55.9	44.9
L4	14:02:42	0.1	2.7	6.7	6.3	9.4	10.6	12.8	10.6	19.1	21.0	39.0	32.5	43.8	44.1	75.2	62.4
L4	14:03:13	0.0	2.5	6.8	6.3	9.9	10.7	13.1	10.9	19.6	21.5	40.5	32.3	42.9	44.7	75.8	63.6
L4	14:04:12	0.0	2.5	6.8	6.4	9.9	10.7	13.0	10.9	19.5	21.4	40.4	32.3	43.0	44.7	75.7	63.4
L4	14:06:12	0.1	2.4	7.0	6.4	9.7	10.6	13.1	10.9	19.6	21.5	40.3	32.2	43.2	44.6	75.3	62.9
L5	14:08:23	0.7	1.9	8.2	9.6	12.5	14.2	16.7	14.1	26.8	28.8	48.7	46.5	56.1	57.6	94.0	80.1
L5	14:08:54	0.7	2.0	8.0	9.5	12.8	14.4	17.0	14.1	27.9	28.8	48.7	46.6	56.3	57.9	95.9	81.3
L5	14:09:53	0.6	1.9	7.5	9.8	13.4	14.7	17.4	14.3	27.9	29.3	51.1	47.6	57.4	58.3	94.9	81.0
L5	14:11:52	0.6	2.0	7.9	9.8	13.4	14.7	17.4	14.3	27.6	29.4	50.8	47.6	56.8	58.0	94.7	80.5
L6	14:13:39	5.4	1.7	10.0	13.2	18.4	17.6	21.6	19.0	72.6	37.5	61.8	56.6	71.6	72.1	115.1	98.3
L6	14:14:10	5.5	1.7	10.2	13.2	18.4	17.7	21.9	18.9	73.5	37.8	61.9	56.5	71.5	72.2	115.1	97.8
L6	14:15:13	5.4	1.7	10.4	13.3	18.4	17.9	22.2	18.8	73.3	38.0	62.9	56.3	71.5	72.7	115.0	98.3
L6	14:17:08	5.3	1.8	10.6	13.2	18.4	18.1	22.5	18.8	73.8	38.3	63.3	56.3	71.6	72.8	115.1	98.2
L7	14:18:43	5.3	2.2	9.9	12.9	18.7	19.9	26.4	21.0	79.1	43.9	70.4	65.4	80.6	81.7	127.8	109.5
L7	14:19:14	5.4	2.2	10.0	12.9	18.8	19.9	26.4	21.1	79.2	44.1	70.4	65.6	80.4	81.6	127.8	109.2
L7	14:20:15	5.2	2.2	10.1	12.9	18.9	20.1	26.6	21.3	79.6	44.4	70.7	65.8	80.9	82.4	128.0	109.7

Table F.19 continued

VIBRATING WIRE CALCULATED STRAIN

AUC 6 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 13	VW STRN MICRO STRAIN 14	VW STRN MICRO STRAIN 15	VW STRN MICRO STRAIN 16	VW STRN MICRO STRAIN 3	VW STRN MICRO STRAIN 4	VW STRN MICRO STRAIN 17	VW STRN MICRO STRAIN 18	VW STRN MICRO STRAIN 7	VW STRN MICRO STRAIN 8	VW STRN MICRO STRAIN 35	VW STRN MICRO STRAIN 36	VW STRN MICRO STRAIN 21	VW STRN MICRO STRAIN 22	VW STRN MICRO STRAIN 41	VW STRN MICRO STRAIN 42
L7	14:22:13	5.1	2.3	10.6	13.2	18.9	20.6	26.8	21.5	80.0	44.8	71.3	65.7	80.8	82.9	128.3	110.1
L8	14:24:25	4.8	2.6	13.9	16.9	22.3	23.8	30.7	26.3	46.2	50.6	81.6	73.6	90.4	91.9	141.0	122.2
L8	14:24:56	5.0	2.6	13.8	17.0	22.1	24.0	30.8	26.3	46.2	50.7	81.5	73.6	90.4	91.8	140.9	121.9
L8	14:25:49	4.9	2.7	13.8	17.0	22.1	24.3	30.6	26.6	51.0	51.2	81.9	73.7	90.4	92.2	141.5	122.6
L8	14:27:48	4.9	2.6	13.8	17.2	22.4	24.6	30.6	26.8	47.2	51.7	83.5	73.7	91.1	92.6	142.3	123.5
L9	14:29:33	4.3	3.1	17.2	20.1	25.3	26.8	34.5	28.4	52.2	57.4	89.6	82.6	100.8	101.9	154.6	135.9
L9	14:30:04	4.5	3.1	17.4	20.2	25.1	27.0	34.7	28.6	52.4	57.8	90.8	82.8	100.8	102.1	155.2	136.7
L9	14:31:03	4.6	3.1	17.6	20.3	25.1	27.3	34.9	28.5	53.0	58.1	91.3	82.8	100.7	102.1	154.9	136.2
L9	14:33:05	4.4	3.0	17.7	20.3	25.4	27.8	35.2	28.8	129.8	58.5	92.5	83.3	101.4	102.2	155.5	137.0
L10	14:34:41	4.0	3.6	18.0	19.6	28.5	30.3	38.5	33.0	NG	64.0	100.6	90.6	111.6	111.5	168.2	148.2
L10	14:35:12	4.0	3.7	18.1	20.1	29.1	30.6	38.8	33.3	NG	64.8	102.0	91.1	111.6	111.5	168.1	147.8
L10	14:36:10	4.0	3.6	18.5	20.2	29.5	30.8	39.3	33.4	NG	65.3	102.8	91.4	112.4	111.9	168.4	148.3
L10	14:38:11	4.0	3.6	18.7	20.5	30.1	31.2	39.8	33.5	NG	65.9	103.7	91.5	113.0	112.5	168.5	148.8
L11	14:39:52	3.7	4.7	20.8	24.3	32.1	33.0	42.6	36.1	NG	72.2	111.6	100.4	123.4	121.7	181.3	162.3
L11	14:40:23	3.5	4.5	21.1	24.4	32.1	33.4	42.9	36.6	NG	72.7	111.6	100.4	123.3	121.7	181.4	161.8
L11	14:41:22	3.6	4.6	21.4	24.5	32.0	33.7	43.5	37.0	NG	73.2	111.6	100.7	123.7	122.2	181.1	162.4
L11	14:43:28	3.8	4.5	21.7	24.6	32.3	34.2	44.3	37.4	NG	73.8	113.9	101.2	123.8	122.7	181.4	162.7
L12	14:45:05	3.1	5.5	21.1	24.4	35.8	38.2	47.8	40.5	73.4	80.2	123.9	108.7	133.2	131.2	194.4	173.4
L12	14:45:36	3.1	5.5	21.4	24.7	36.2	38.3	47.8	40.7	73.7	80.9	121.3	109.2	134.7	132.1	195.3	174.0
L12	14:46:38	3.1	5.5	22.1	24.8	36.7	38.3	47.2	41.0	73.8	81.5	121.0	109.4	135.0	132.1	194.9	174.0
L12	14:48:35	3.3	5.5	22.5	24.8	37.3	38.4	48.6	41.6	75.1	82.5	123.0	110.3	135.7	132.6	195.7	174.1
L13	14:50:39	3.2	6.2	24.6	27.5	39.4	41.0	53.3	44.4	80.5	89.2	132.1	119.1	145.4	140.9	208.8	186.5
L13	14:51:10	3.2	6.2	24.9	27.7	39.0	41.7	53.5	44.6	80.6	89.9	132.0	119.3	145.8	141.0	208.8	186.4
L13	14:52:10	3.2	6.3	25.2	27.6	38.9	42.3	53.8	44.8	80.8	88.1	132.3	119.3	145.9	141.2	208.5	186.8
L13	14:54:09	3.2	6.1	25.0	27.7	39.3	43.0	54.6	45.4	81.6	90.0	134.3	119.8	147.1	142.1	209.3	186.8
L14	14:55:40	3.6	6.8	25.2	30.6	42.3	46.1	58.0	49.2	87.2	96.4	144.4	128.8	156.9	151.1	221.7	198.7
L14	14:56:11	3.5	7.0	25.3	30.9	43.8	46.5	58.5	49.0	87.9	96.7	144.0	129.1	157.2	151.5	222.0	198.9
L14	14:57:15	3.7	6.8	25.5	31.1	45.0	46.7	59.3	49.5	88.7	97.9	144.3	129.6	157.7	151.9	222.4	198.8
L14	14:59:12	3.6	6.8	25.7	31.3	45.0	46.4	59.3	49.6	89.2	98.6	143.4	130.2	158.5	152.2	223.0	198.7
L15	15:00:42	5.4	7.1	26.5	32.5	48.5	50.0	63.9	54.2	95.4	105.4	153.7	138.0	167.6	160.0	235.8	208.9
L15	15:01:13	5.2	7.2	27.2	32.3	49.3	50.4	64.4	54.0	95.7	106.2	155.0	138.3	168.0	159.9	236.0	209.1
L15	15:02:12	5.3	7.3	27.7	32.1	47.4	50.8	64.5	54.1	96.0	106.7	155.5	138.4	168.2	159.9	236.2	208.9
L15	15:04:12	4.6	7.2	27.9	32.4	46.9	51.2	64.3	54.1	96.3	107.6	156.4	139.4	169.2	160.0	236.9	209.1
L16	15:05:56	9.6	7.5	32.3	34.1	51.0	53.5	69.1	57.7	101.6	114.7	166.0	148.0	179.5	169.9	249.4	219.4
L16	15:06:27	9.8	7.5	32.3	34.0	51.0	53.7	69.3	57.8	102.1	114.9	166.3	148.0	179.4	169.6	249.2	219.2
L16	15:07:27	9.6	7.4	32.6	33.8	50.8	54.0	69.6	57.9	102.9	115.0	164.9	147.9	179.9	170.5	250.2	219.4
L16	15:09:28	9.6	7.5	32.2	33.5	50.9	54.1	69.8	58.0	103.5	115.6	165.9	148.2	180.4	170.9	251.0	219.2
L17	15:11:04	9.3	7.6	34.2	36.4	54.5	57.3	74.2	62.0	109.1	122.7	174.3	157.6	190.2	180.7	265.0	231.5
L17	15:11:35	9.4	7.7	34.1	36.1	54.5	57.3	74.3	62.0	109.1	122.6	175.0	157.6	190.3	180.8	265.4	229.9
L17	15:12:40	9.4	7.5	33.8	36.5	54.4	57.4	74.5	61.9	109.6	123.1	176.1	157.8	190.8	180.9	265.1	231.6
L17	15:14:34	9.4	7.5	33.2	36.2	54.1	57.3	74.6	61.6	109.8	123.7	176.8	157.9	191.1	180.9	265.5	231.4
L18	15:16:05	10.0	7.6	34.4	38.4	57.8	60.5	78.5	63.8	115.6	131.3	185.5	164.9	200.9	188.5	277.2	240.2
L18	15:16:36	9.9	7.6	34.3	38.2	57.5	60.5	78.5	63.8	115.8	131.2	185.2	164.7	201.0	188.5	277.2	240.3

Table F.19 continued

VIBRATING WIRE CALCULATED STRAIN

AUC 6 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 13	VW STRN MICRO STRAIN 14	VW STRN MICRO STRAIN 15	VW STRN MICRO STRAIN 16	VW STRN MICRO STRAIN 3	VW STRN MICRO STRAIN 4	VW STRN MICRO STRAIN 17	VW STRN MICRO STRAIN 18	VW STRN MICRO STRAIN 7	VW STRN MICRO STRAIN 8	VW STRN MICRO STRAIN 35	VW STRN MICRO STRAIN 36	VW STRN MICRO STRAIN 21	VW STRN MICRO STRAIN 22	VW STRN MICRO STRAIN 41	VW STRN MICRO STRAIN 42
L18	15:17:35	9.8	7.6	34.4	38.0	57.2	60.5	78.5	63.8	116.4	131.3	185.5	165.3	200.5	188.8	278.3	240.7
L18	15:19:36	9.7	7.6	34.8	37.8	57.1	60.8	78.4	64.0	116.8	132.0	186.2	166.0	200.0	188.9	278.5	241.1
L19	15:21:33	9.9	8.1	36.4	37.5	60.2	64.0	81.0	69.4	121.3	137.4	195.6	173.6	213.5	196.6	291.1	256.6
L19	15:22:04	9.7	8.1	36.3	37.2	60.1	63.9	81.1	69.6	122.1	137.7	197.7	174.2	215.0	192.7	292.7	256.5
L19	15:23:04	9.3	8.2	37.4	37.2	60.0	63.8	80.9	69.1	121.1	137.4	198.2	173.5	214.7	192.4	292.7	257.1
L19	15:25:03	9.7	8.2	37.2	36.9	58.7	63.8	81.0	68.9	120.2	137.3	198.8	172.8	215.3	192.4	292.8	258.6
L20	15:26:44	9.6	8.5	38.1	37.7	59.5	64.9	83.5	70.3	121.9	140.3	202.9	175.5	220.4	202.2	299.5	265.0
L20	15:27:15	9.3	8.5	38.3	37.4	59.1	65.0	83.1	70.6	121.5	140.1	203.2	174.9	219.7	201.7	299.4	264.9
L20	15:28:14	8.2	8.4	38.9	37.3	59.0	64.9	83.3	70.6	120.9	140.2	204.0	174.6	220.6	201.8	299.7	265.6
L20	15:30:14	3.9	8.4	41.7	36.9	59.9	64.9	83.2	70.6	120.0	139.8	205.5	173.4	220.8	201.4	299.6	265.8
L21	15:31:55	3.6	9.5	41.2	36.9	59.0	65.9	83.5	70.5	120.0	140.8	206.8	173.6	222.5	202.3	302.4	268.9
L21	15:32:26	3.5	10.2	41.5	37.2	59.1	66.4	83.4	70.2	120.6	141.2	207.4	173.6	222.8	202.4	302.7	268.9
L21	15:33:31	3.4	10.9	41.6	36.9	59.2	66.3	83.5	70.4	119.4	140.9	207.8	173.1	222.8	201.9	302.8	269.4
L21	15:34:54	3.6	10.8	42.0	36.9	59.6	66.4	83.5	70.5	119.2	141.1	208.3	172.6	222.5	202.1	303.4	270.7
L21	15:35:25	3.2	10.8	43.0	36.9	59.3	66.8	83.5	70.3	119.1	141.3	209.0	172.6	222.7	202.1	303.5	270.9
L22	15:37:09	3.2	11.0	43.1	37.4	62.2	68.0	84.8	69.7	119.9	142.5	211.7	173.6	222.0	203.9	305.4	273.8
L22	15:37:40	3.2	11.4	43.1	37.2	62.0	67.9	84.7	69.7	119.4	142.6	212.0	173.3	222.2	203.8	305.5	273.8
L22	15:38:48	3.1	11.7	45.6	37.1	60.0	68.1	84.6	69.9	119.0	142.6	212.2	172.5	221.8	203.3	305.3	273.9
L22	15:39:45	3.1	11.9	46.7	37.1	60.5	68.2	84.7	69.8	118.6	142.6	212.8	172.0	222.0	203.1	305.6	273.8
L22	15:40:39	3.1	12.1	44.9	37.0	59.6	68.4	84.7	69.9	118.1	142.6	212.5	171.4	221.8	202.7	305.2	273.9
U1	15:44:20	3.3	11.7	44.2	36.5	56.3	65.1	80.7	65.5	112.7	136.9	203.1	163.0	215.4	192.0	292.8	260.9
U2	15:49:03	4.3	10.7	38.3	31.9	50.9	58.5	72.8	59.2	101.1	123.1	181.4	142.9	188.1	169.6	253.2	225.0
U3	15:53:05	3.9	8.1	31.8	24.8	42.1	51.3	61.5	51.1	87.3	108.4	156.5	119.2	157.3	144.1	213.0	185.9
U4	15:57:03	-0.1	6.3	29.3	18.1	33.7	42.2	52.0	42.4	73.1	91.3	129.5	95.9	125.7	117.7	172.9	147.0
U5	16:01:33	-5.3	1.7	20.6	11.4	24.3	30.1	36.9	28.3	51.5	68.2	95.1	65.8	88.4	83.1	121.8	102.3
U6	16:05:30	-3.9	-0.5	11.1	0.8	12.0	16.6	21.0	14.1	29.8	43.4	60.5	34.2	54.6	48.2	70.7	58.4
U7	16:10:00	-10.6	-4.6	-1.4	-11.7	-6.4	-2.1	-0.9	-5.5	-3.9	9.5	15.2	-5.4	8.5	1.7	9.1	5.8
U7A	16:13:04	-10.6	-5.2	-2.4	-11.7	-6.5	-2.7	-1.4	-6.1	-4.6	9.0	14.7	-6.1	7.5	2.9	8.6	5.2
U7A	16:28:04	-10.7	-5.7	-3.7	-11.7	-6.5	-3.7	-1.8	-6.5	-5.3	8.3	16.4	-7.3	13.3	2.9	7.6	4.0
U7A	16:43:04	-10.8	-6.0	-5.5	-11.6	-6.5	-4.1	-2.1	-6.7	-5.4	7.9	16.4	-7.5	13.1	2.5	7.1	3.7
U7A	16:58:04	-10.8	-6.0	-5.9	-11.7	-6.4	-4.4	-2.2	-6.7	-5.5	7.7	13.9	-7.5	13.0	2.2	7.1	3.9
U7A	17:04:46	-10.8	-6.1	-6.1	-11.7	-6.5	-4.3	-2.6	-6.8	-5.7	7.5	12.6	-7.5	12.6	2.0	6.9	3.9

Table F.19 continued

VIBRATING WIRE CALCULATED STRAIN (4 MINUTE READINGS)

AUC 6 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 13	VW STRN MICRO STRAIN 14	VW STRN MICRO STRAIN 15	VW STRN MICRO STRAIN 16	VW STRN MICRO STRAIN 3	VW STRN MICRO STRAIN 4	VW STRN MICRO STRAIN 17	VW STRN MICRO STRAIN 18	VW STRN MICRO STRAIN 7	VW STRN MICRO STRAIN 8	VW STRN MICRO STRAIN 35	VW STRN MICRO STRAIN 36	VW STRN MICRO STRAIN 21	VW STRN MICRO STRAIN 22	VW STRN MICRO STRAIN 41	VW STRN MICRO STRAIN 42
L0	13:27:29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
L1	13:36:05	-0.2	0.4	0.6	2.1	1.8	2.4	0.6	2.7	3.0	3.5	1.8	3.9	9.1	7.0	16.4	13.4
L2	13:41:48	-1.1	1.2	3.5	4.5	4.0	4.7	5.2	5.4	7.8	8.3	12.6	12.5	18.7	18.4	36.5	28.4
L3	14:00:40	-0.8	0.8	1.7	7.0	5.4	6.7	7.9	7.3	12.8	14.5	25.7	22.8	32.7	31.7	55.9	44.9
L4	14:06:12	0.1	2.4	7.0	6.4	9.7	10.6	13.1	10.9	19.6	21.5	40.3	32.2	43.2	44.6	75.3	62.9
L5	14:11:52	0.6	2.0	7.9	9.8	13.4	14.7	17.4	14.3	27.6	29.4	50.8	47.6	56.8	58.0	94.7	80.5
L6	14:17:08	5.3	1.8	10.6	13.2	18.4	18.1	22.5	18.8	34.4	38.3	63.3	56.3	71.6	72.8	115.1	98.2
L7	14:22:13	5.1	2.3	10.6	13.2	18.9	20.6	26.8	21.5	41.2	44.8	71.3	65.7	80.8	82.9	128.3	110.1
L8	14:27:48	4.9	2.6	13.8	17.2	22.4	24.6	30.6	26.8	48.0	51.7	83.5	73.7	91.1	92.6	142.3	123.5
L9	14:33:05	4.4	3.0	17.7	20.3	25.4	27.8	35.2	28.8	54.7	58.5	92.5	83.3	101.4	102.2	155.5	137.0
L10	14:38:11	4.0	3.6	18.7	20.5	30.1	31.2	39.8	33.5	61.5	65.9	103.7	91.5	113.0	112.5	168.5	148.8
L11	14:43:28	3.8	4.5	21.7	24.6	32.3	34.2	44.3	37.4	68.3	73.8	113.9	101.2	123.8	122.7	181.4	162.7
L12	14:48:35	3.3	5.5	22.5	24.8	37.3	38.4	48.6	41.6	75.1	82.5	123.0	110.3	135.7	132.6	195.7	174.1
L13	14:54:09	3.2	6.1	25.0	27.7	39.3	43.0	54.6	45.4	81.6	90.0	134.3	119.8	147.1	142.1	209.3	186.8
L14	14:59:12	3.6	6.8	25.7	31.3	45.0	46.4	59.3	49.6	89.2	98.6	143.4	130.2	158.5	152.2	223.0	198.7
L15	15:04:12	4.6	7.2	27.9	32.4	46.9	51.2	64.3	54.1	96.3	107.6	156.4	139.4	169.2	160.0	236.9	209.1
L16	15:09:28	9.6	7.5	32.2	33.5	50.9	54.1	69.8	58.0	103.5	115.6	165.9	148.2	180.4	170.9	251.0	219.2
L17	15:14:34	9.4	7.5	33.2	36.2	54.1	57.3	74.6	61.6	109.8	123.7	176.8	157.9	191.1	180.9	265.5	231.4
L18	15:19:36	9.7	7.6	34.8	37.8	57.1	60.8	78.4	64.0	116.8	132.0	186.2	166.0	200.0	188.9	278.5	241.1
L19	15:25:03	9.7	8.2	37.2	36.9	58.7	63.8	81.0	68.9	120.2	137.3	198.8	172.8	215.3	192.4	292.8	258.6
L20	15:30:14	3.9	8.4	41.7	36.9	59.9	64.9	83.2	70.6	120.0	139.8	205.5	173.4	220.8	201.4	299.6	265.8
L21	15:35:25	3.2	10.8	43.0	36.9	59.3	66.8	83.5	70.3	119.1	141.3	209.0	172.6	222.7	202.1	303.5	270.9
L22	15:40:39	3.1	12.1	44.9	37.0	59.6	68.4	84.7	69.9	118.1	142.6	212.5	171.4	221.8	202.7	305.2	273.9
U1	15:44:20	3.3	11.7	44.2	36.5	56.3	65.1	80.7	65.5	112.7	136.9	203.1	163.0	215.4	192.0	292.8	260.9
U2	15:49:03	4.3	10.7	38.3	31.9	50.9	58.5	72.8	59.2	101.1	123.1	181.4	142.9	188.1	169.6	253.2	225.0
U3	15:53:05	3.9	8.1	31.8	24.8	42.1	51.3	61.5	51.1	87.3	108.4	156.5	119.2	157.3	144.1	213.0	185.9
U4	15:57:03	-0.1	6.3	29.3	18.1	33.7	42.2	52.0	42.4	73.1	91.3	129.5	95.9	125.7	117.7	172.9	147.0
U5	16:01:33	-5.3	1.7	20.6	11.4	24.3	30.1	36.9	28.3	51.5	68.2	95.1	65.8	88.4	83.1	121.8	102.3
U6	16:05:30	-3.9	-0.5	11.1	0.8	12.0	16.6	21.0	14.1	29.8	43.4	60.5	34.2	54.6	48.2	70.7	58.4
U7	16:10:00	-10.6	-4.6	-1.4	-11.7	-6.4	-2.1	-0.9	-5.5	-3.9	9.5	15.2	-5.4	8.5	1.7	9.1	5.8
U7A	16:13:04	-10.6	-5.2	-2.4	-11.7	-6.5	-2.7	-1.4	-6.1	-4.6	9.0	14.7	-6.1	7.5	2.9	8.6	5.2

NOTE: READINGS FOR GAGE #7 FAILED DURING L6-L11. DATA SHOWN IS INTERPOLATED BETWEEN L5 & L12

Table F.19 continued

AVERAGE STRAIN AT EACH GAGE LEVEL, INTEGRATED PILE COMPRESSION & COMPARISON WITH TELLTALE MEASUREMENT (4 MINUTE READINGS)

AUC 6 LOAD NUMBER	AVG VW MICRO STRAIN SURFACE	AVG VW MICRO STRAIN 13+14	AVG VW MICRO STRAIN 15+16	AVG VW MICRO STRAIN 3+4	AVG VW MICRO STRAIN 17+18	AVG VW MICRO STRAIN 7+8	AVG VW MICRO STRAIN 35+36	AVG VW MICRO STRAIN 21+22	AVG VW MICRO STRAIN 41+42	EST'D. MICRO STRAIN CELL TOP	PILE COMPRESSION SG MSMT. INCHES	TT MSMT. INCHES	ABS.DIFF. SG-TT INCHES
L0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0000	0.0000	0.0000
L1	0.0	0.1	1.3	2.1	1.7	3.2	2.8	8.0	14.9	16.6	0.0024	0.0016	0.0007
L2	0.0	0.1	4.0	4.4	5.3	8.0	12.6	18.6	32.4	34.9	0.0060	0.0049	0.0011
L3	0.0	-0.0	4.3	6.0	7.6	13.7	24.2	32.2	50.4	53.6	0.0098	0.0085	0.0013
L4	0.0	1.3	6.7	10.2	12.0	20.5	36.3	43.9	69.1	72.6	0.0143	0.0126	0.0018
L5	0.0	1.3	8.8	14.0	15.9	28.5	49.2	57.4	87.6	91.4	0.0190	0.0168	0.0022
L6	0.0	3.6	11.9	18.2	20.7	36.3	59.8	72.2	106.7	110.6	0.0240	0.0212	0.0028
L7	0.0	3.7	11.9	19.7	24.2	43.0	68.5	81.9	119.2	123.4	0.0271	0.0240	0.0032
L8	0.0	3.7	15.5	23.5	28.7	49.8	78.6	91.8	132.9	137.0	0.0311	0.0274	0.0038
L9	0.0	3.7	19.0	26.6	32.0	56.6	87.9	101.8	146.2	150.1	0.0348	0.0308	0.0041
L10	0.0	3.8	19.6	30.6	36.7	63.7	97.6	112.7	158.7	162.6	0.0386	0.0339	0.0047
L11	0.0	4.1	23.2	33.3	40.9	71.1	107.6	123.3	172.1	176.0	0.0426	0.0375	0.0051
L12	0.0	4.4	23.7	37.8	45.1	78.8	116.7	134.1	184.9	188.8	0.0464	0.0412	0.0052
L13	0.0	4.7	26.3	41.1	50.0	85.8	127.1	144.6	198.0	202.0	0.0503	0.0447	0.0056
L14	0.0	5.2	28.5	45.7	54.4	93.9	136.8	155.4	210.9	214.9	0.0544	0.0484	0.0061
L15	0.0	5.9	30.1	49.1	59.2	102.0	147.9	164.6	223.0	227.4	0.0584	0.0520	0.0064
L16	0.0	8.6	32.9	52.5	63.9	109.6	157.0	175.6	235.1	239.9	0.0626	0.0559	0.0067
L17	0.0	8.4	34.7	55.7	68.1	116.8	167.3	186.0	248.4	253.1	0.0663	0.0588	0.0075
L18	0.0	8.7	36.3	59.0	71.2	124.4	176.1	194.5	259.8	265.0	0.0698	0.0621	0.0077
L19	0.0	8.9	37.1	61.3	74.9	128.8	185.8	203.8	275.7	280.0	0.0731	0.0655	0.0076
L20	0.0	6.2	39.3	62.4	76.9	129.9	189.5	211.1	282.7	287.0	0.0745	0.0665	0.0080
L21	0.0	7.0	40.0	63.0	76.9	130.2	190.8	212.4	287.2	290.8	0.0752	0.0673	0.0079
L22	0.0	7.6	41.0	64.0	77.3	130.4	191.9	212.3	289.5	293.6	0.0757	0.0679	0.0078
U1	0.0	7.5	40.3	60.7	73.1	124.8	183.0	203.7	276.9	282.7	0.0724	0.0655	0.0069
U2	0.0	7.5	35.1	54.7	66.0	112.1	162.1	178.8	239.1	238.2	0.0641	0.0584	0.0058
U3	0.0	6.0	28.3	46.7	56.3	97.8	137.9	150.7	199.5	196.8	0.0543	0.0495	0.0049
U4	0.0	3.1	23.7	37.9	47.2	82.2	112.7	121.7	160.0	156.9	0.0444	0.0405	0.0039
U5	0.0	-1.8	16.0	27.2	32.6	59.9	80.4	85.8	112.1	108.6	0.0310	0.0286	0.0024
U6	0.0	-2.2	5.9	14.3	17.6	36.6	47.3	51.4	64.6	61.4	0.0177	0.0166	0.0011
U7	0.0	-7.6	-6.5	-4.3	-3.2	2.8	4.9	5.1	7.4	4.7	-0.0007	0.0009	-0.0016
U7A	0.0	-7.9	-7.0	-4.6	-3.7	2.2	4.3	5.2	6.9	4.4	-0.0010	0.0007	-0.0017
ELEV. FT	53.21	43.25	35.25	28.25	21.75	11.75	2.75	-0.25	-8.25	-8.75			

Table F.19 continued

VIBRATING WIRE CALCULATED AVERAGE LOADS (4 MINUTE READINGS)

LA = 8.00 ft ACA = 317.115 si
LB = 1.38 ft ACB = 313.155 si
B = 18.00 in ASA = 3.538 si
ES = 27500.0 ksi ASB = 7.498 si

AUC 6 LOAD NUMBER	AVG VW LOAD TONS SURFACE	AVG VW LOAD TONS 13+14	AVG VW LOAD TONS 15+16	AVG VW LOAD TONS 3+4	AVG VW LOAD TONS 17+18	AVG VW LOAD TONS 7+8	AVG VW LOAD TONS 35+36	AVG VW LOAD TONS 21+22	AVG VW LOAD TONS 41+42	OSTERBERG LOAD TONS BOTTOM	INCR. PILE MODULUS KSI	CALC. PILE A MODULUS KSI	CALC. PILE B MODULUS KSI
L0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0		4440.7	4725.1
L1	0.00	0.06	0.96	1.51	1.21	2.32	2.04	5.76	11.39	15.0	6210.3	4440.7	4725.1
L2	0.00	0.06	2.87	3.14	3.79	5.78	9.04	13.36	24.84	30.0	5295.0	4440.7	4725.1
L3	0.00	-0.00	3.12	4.35	5.47	9.83	17.42	23.15	38.59	45.3	5236.2	4440.7	4725.1
L4	0.00	0.90	4.83	7.33	8.64	14.78	26.11	31.58	52.91	60.2	4927.0	4440.7	4725.1
L5	0.00	0.94	6.35	10.10	11.41	20.50	35.42	41.31	67.06	75.1	4984.4	4440.7	4725.1
L6	0.00	2.57	8.58	13.12	14.86	26.14	43.02	51.94	81.66	90.0	4804.7	4440.7	4725.1
L7	0.00	2.63	8.59	14.19	17.39	30.93	49.27	58.90	91.25	100.1	4969.7	4440.7	4725.1
L8	0.00	2.70	11.17	16.91	20.63	35.84	56.57	66.08	101.71	110.4	4664.8	4440.7	4725.1
L9	0.00	2.67	13.67	19.13	23.02	40.72	63.25	73.22	111.95	120.2	4503.2	4440.7	4725.1
L10	0.00	2.76	14.09	22.05	26.38	45.85	70.23	81.11	121.46	129.8	4794.8	4440.7	4725.1
L11	0.00	2.96	16.67	23.92	29.39	51.13	77.38	88.68	131.70	140.1	4734.3	4440.7	4725.1
L12	0.00	3.16	17.02	27.21	32.44	56.69	83.93	96.50	141.53	149.8	4667.5	4440.7	4725.1
L13	0.00	3.35	18.94	29.58	35.96	61.71	91.40	104.04	151.58	160.0	4807.6	4440.7	4725.1
L14	0.00	3.72	20.50	32.87	39.17	67.55	98.39	111.76	161.41	169.9	4782.1	4440.7	4725.1
L15	0.00	4.22	21.68	35.31	42.58	73.35	106.40	118.43	170.70	180.0	5092.5	4440.7	4725.1
L16	0.00	6.17	23.64	37.77	45.98	78.82	112.96	126.35	179.93	190.1	5167.3	4440.7	4725.1
L17	0.00	6.07	24.96	40.06	48.98	84.00	120.38	133.81	190.16	200.0	4574.3	4440.7	4725.1
L18	0.00	6.23	26.09	42.41	51.22	89.48	126.68	139.89	198.84	209.9	5436.9	4440.7	4725.1
L19	0.00	6.42	26.66	44.08	53.92	92.63	133.65	146.64	211.04	220.1	3930.3	4440.7	4725.1
L20	0.00	4.43	28.28	44.91	55.31	93.45	136.29	151.85	216.41	225.4	4697.9	4440.7	4725.1
L21	0.00	5.04	28.76	45.35	55.33	93.68	137.25	152.78	219.83	227.5	2843.4	4440.7	4725.1
L22	0.00	5.45	29.47	46.01	55.62	93.79	138.07	152.70	221.64	230.3	7235.2	4440.7	4725.1
U1	0.00	5.38	29.02	43.65	52.58	89.77	131.66	146.51	211.92	224.1		4440.7	4725.1
U2	0.00	5.39	25.25	39.36	47.46	80.67	116.64	128.66	183.04	181.2		4440.7	4725.1
U3	0.00	4.31	20.36	33.61	40.48	70.39	99.18	108.41	152.69	147.0		4440.7	4725.1
U4	0.00	2.23	17.05	27.29	33.94	59.14	81.09	87.55	122.46	116.0		4440.7	4725.1
U5	0.00	-1.28	11.50	19.59	23.46	43.07	57.87	61.72	85.77	78.6		4440.7	4725.1
U6	0.00	-1.58	4.28	10.29	12.66	26.33	34.05	36.99	49.43	42.7		4440.7	4725.1
U7	0.00	-5.46	-4.68	-3.06	-2.30	2.03	3.54	3.67	5.68	0.0		4440.7	4725.1
U7A	0.00	-5.68	-5.07	-3.30	-2.68	1.60	3.10	3.72	5.32	0.0		4440.7	4725.1
ELEV. FT	53.21	43.25	35.25	28.25	21.75	11.75	2.75	-0.25	-8.25	-9.63	4230.3 KSI = CONCRETE MOD		

Table F.19 continued

INTEGRATED MOVEMENT AT VW STRAIN GAGE (4 MINUTE READINGS)

AUC 6 LOAD NUMBER	VW MOVEMENT INCHES SURFACE	VW MOVEMENT INCHES 13+14	VW MOVEMENT INCHES 15+16	VW MOVEMENT INCHES 3+4	VW MOVEMENT INCHES 17+18	VW MOVEMENT INCHES 7+8	VW MOVEMENT INCHES 35+36	VW MOVEMENT INCHES 21+22	VW MOVEMENT INCHES 41+42	VW MOVEMENT INCHES CELL TOP
L0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L1	-0.0007	-0.0007	-0.0007	-0.0005	-0.0004	-0.0001	0.0003	0.0005	0.0016	0.0016
L2	-0.0011	-0.0011	-0.0009	-0.0006	-0.0002	0.0006	0.0017	0.0022	0.0047	0.0049
L3	0.0037	0.0037	0.0039	0.0044	0.0049	0.0062	0.0082	0.0092	0.0132	0.0135
L4	0.0032	0.0033	0.0037	0.0044	0.0052	0.0072	0.0103	0.0117	0.0171	0.0175
L5	0.0028	0.0029	0.0034	0.0044	0.0055	0.0082	0.0124	0.0143	0.0213	0.0218
L6	0.0022	0.0024	0.0031	0.0044	0.0059	0.0093	0.0145	0.0169	0.0255	0.0261
L7	0.0068	0.0070	0.0078	0.0091	0.0108	0.0148	0.0209	0.0236	0.0332	0.0340
L8	0.0062	0.0064	0.0074	0.0090	0.0110	0.0157	0.0227	0.0258	0.0365	0.0374
L9	0.0059	0.0061	0.0072	0.0091	0.0114	0.0167	0.0245	0.0280	0.0399	0.0408
L10	0.0103	0.0105	0.0116	0.0138	0.0164	0.0224	0.0311	0.0349	0.0479	0.0489
L11	0.0099	0.0101	0.0115	0.0138	0.0167	0.0234	0.0331	0.0372	0.0514	0.0524
L12	0.0148	0.0150	0.0164	0.0190	0.0222	0.0296	0.0402	0.0447	0.0600	0.0612
L13	0.0194	0.0197	0.0211	0.0240	0.0275	0.0357	0.0472	0.0521	0.0685	0.0697
L14	0.0189	0.0192	0.0209	0.0240	0.0279	0.0368	0.0492	0.0545	0.0721	0.0733
L15	0.0236	0.0239	0.0257	0.0290	0.0332	0.0429	0.0564	0.0620	0.0806	0.0820
L16	0.0333	0.0338	0.0358	0.0394	0.0439	0.0543	0.0687	0.0747	0.0944	0.0959
L17	0.0375	0.0380	0.0400	0.0438	0.0487	0.0597	0.0751	0.0814	0.1023	0.1038
L18	0.0523	0.0529	0.0550	0.0590	0.0641	0.0758	0.0921	0.0987	0.1205	0.1221
L19	0.0974	0.0979	0.1002	0.1043	0.1096	0.1218	0.1388	0.1458	0.1688	0.1705
L20	0.1920	0.1923	0.1945	0.1988	0.2042	0.2166	0.2339	0.2411	0.2648	0.2665
L21	0.2971	0.2975	0.2997	0.3041	0.3095	0.3219	0.3393	0.3465	0.3705	0.3722
L22	0.4572	0.4577	0.4600	0.4644	0.4699	0.4824	0.4998	0.5071	0.5312	0.5329
U1	0.4881	0.4885	0.4908	0.4951	0.5003	0.5122	0.5288	0.5358	0.5588	0.5605
U2	0.4892	0.4897	0.4917	0.4955	0.5002	0.5109	0.5257	0.5319	0.5519	0.5534
U3	0.4901	0.4905	0.4921	0.4953	0.4993	0.5085	0.5213	0.5265	0.5433	0.5444
U4	0.4861	0.4863	0.4876	0.4902	0.4935	0.5013	0.5118	0.5160	0.5295	0.5305
U5	0.4826	0.4825	0.4832	0.4850	0.4873	0.4929	0.5004	0.5034	0.5129	0.5136
U6	0.4789	0.4788	0.4790	0.4798	0.4811	0.4843	0.4889	0.4907	0.4962	0.4966
U7	0.4716	0.4711	0.4704	0.4700	0.4697	0.4697	0.4701	0.4703	0.4709	0.4709
U7A	0.4717	0.4712	0.4705	0.4700	0.4697	0.4696	0.4699	0.4701	0.4707	0.4707

Table F.19 continued

INTEGRATED MOVEMENT AT SEGMENT CL (4 MINUTE READINGS)

AUC 6 LOAD NUMBER	AVG VW MOVEMENT INCHES	AVG VW MOVEMENT INCHES	AVG VW MOVEMENT INCHES	AVG VW MOVEMENT INCHES	AVG VW MOVEMENT INCHES	AVG VW MOVEMENT INCHES	AVG VW MOVEMENT INCHES	AVG VW MOVEMENT INCHES
CL.ELEV.	48.23	39.25	31.75	25.00	16.75	7.25	1.25	-4.25
L0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001	0.0004	0.0010
L2	0.0000	0.0000	0.0000	0.0000	0.0002	0.0011	0.0020	0.0035
L3	0.0037	0.0038	0.0041	0.0046	0.0055	0.0072	0.0087	0.0112
L4	0.0032	0.0035	0.0040	0.0048	0.0062	0.0087	0.0110	0.0144
L5	0.0029	0.0032	0.0039	0.0049	0.0069	0.0103	0.0133	0.0178
L6	0.0023	0.0028	0.0038	0.0052	0.0076	0.0119	0.0157	0.0212
L7	0.0069	0.0074	0.0084	0.0100	0.0128	0.0179	0.0222	0.0284
L8	0.0063	0.0069	0.0082	0.0100	0.0134	0.0192	0.0242	0.0311
L9	0.0060	0.0067	0.0082	0.0103	0.0141	0.0206	0.0262	0.0339
L10	0.0104	0.0111	0.0127	0.0151	0.0194	0.0268	0.0330	0.0414
L11	0.0100	0.0108	0.0126	0.0153	0.0201	0.0283	0.0352	0.0443
L12	0.0149	0.0157	0.0177	0.0206	0.0259	0.0349	0.0425	0.0524
L13	0.0195	0.0204	0.0226	0.0257	0.0316	0.0414	0.0496	0.0603
L14	0.0191	0.0200	0.0224	0.0259	0.0323	0.0430	0.0519	0.0633
L15	0.0238	0.0248	0.0273	0.0311	0.0380	0.0496	0.0592	0.0713
L16	0.0335	0.0348	0.0376	0.0417	0.0491	0.0615	0.0717	0.0846
L17	0.0377	0.0390	0.0419	0.0462	0.0542	0.0674	0.0783	0.0919
L18	0.0526	0.0539	0.0570	0.0616	0.0700	0.0839	0.0954	0.1096
L19	0.0977	0.0990	0.1022	0.1069	0.1157	0.1303	0.1423	0.1573
L20	0.1922	0.1934	0.1967	0.2015	0.2104	0.2253	0.2375	0.2529
L21	0.2973	0.2986	0.3019	0.3068	0.3157	0.3306	0.3429	0.3585
L22	0.4575	0.4588	0.4622	0.4672	0.4762	0.4911	0.5034	0.5191
U1	0.4883	0.4897	0.4930	0.4977	0.5062	0.5205	0.5323	0.5473
U2	0.4895	0.4907	0.4936	0.4979	0.5056	0.5183	0.5288	0.5419
U3	0.4903	0.4913	0.4937	0.4973	0.5039	0.5149	0.5239	0.5349
U4	0.4862	0.4870	0.4889	0.4919	0.4974	0.5065	0.5139	0.5228
U5	0.4825	0.4828	0.4841	0.4862	0.4901	0.4967	0.5019	0.5082
U6	0.4789	0.4789	0.4794	0.4805	0.4827	0.4866	0.4898	0.4934
U7	0.4713	0.4708	0.4702	0.4698	0.4697	0.4699	0.4702	0.4706
U7A	0.4714	0.4708	0.4702	0.4698	0.4696	0.4697	0.4700	0.4704

Table F.19 continued

AVERAGE SEGMENT SHEAR STRESS (4 MINUTE READINGS)

AUC 6 LOAD NUMBER CL.ELEV.	AVG VW SHEAR TSF 48.23	AVG VW SHEAR TSF 39.25	AVG VW SHEAR TSF 31.75	AVG VW SHEAR TSF 25.00	AVG VW SHEAR TSF 16.75	AVG VW SHEAR TSF 7.25	AVG VW SHEAR TSF 1.25	AVG VW SHEAR TSF -4.25
L0	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016
L1	-0.015	0.002	-0.003	-0.024	0.002	-0.021	0.190	0.101
L2	-0.015	0.042	-0.010	0.000	0.017	0.044	0.223	0.223
L3	-0.016	0.049	0.013	0.012	0.056	0.124	0.302	0.305
L4	-0.001	0.066	0.043	0.017	0.086	0.193	0.287	0.428
L5	-0.001	0.096	0.073	0.017	0.135	0.260	0.311	0.520
L6	0.027	0.109	0.092	0.028	0.172	0.296	0.479	0.603
L7	0.028	0.108	0.117	0.065	0.209	0.323	0.518	0.657
L8	0.029	0.160	0.120	0.079	0.237	0.368	0.512	0.726
L9	0.028	0.213	0.114	0.083	0.279	0.401	0.537	0.790
L10	0.030	0.220	0.173	0.095	0.308	0.435	0.588	0.824
L11	0.033	0.269	0.156	0.124	0.346	0.470	0.612	0.880
L12	0.036	0.272	0.226	0.118	0.388	0.488	0.682	0.922
L13	0.040	0.308	0.237	0.147	0.413	0.534	0.685	0.974
L14	0.046	0.333	0.278	0.145	0.457	0.555	0.726	1.018
L15	0.054	0.347	0.308	0.170	0.496	0.596	0.652	1.073
L16	0.087	0.348	0.320	0.194	0.531	0.616	0.727	1.100
L17	0.085	0.377	0.343	0.212	0.567	0.657	0.730	1.158
L18	0.088	0.397	0.372	0.209	0.621	0.672	0.718	1.212
L19	0.091	0.405	0.398	0.236	0.629	0.743	0.705	1.325
L20	0.058	0.480	0.379	0.250	0.619	0.777	0.848	1.329
L21	0.068	0.478	0.379	0.239	0.623	0.790	0.846	1.380
L22	0.075	0.484	0.377	0.230	0.620	0.804	0.796	1.420
U1	0.074	0.476	0.332	0.212	0.604	0.759	0.809	1.346
U2	0.074	0.397	0.320	0.191	0.537	0.650	0.651	1.117
U3	0.056	0.318	0.299	0.160	0.482	0.517	0.497	0.906
U4	0.021	0.292	0.227	0.154	0.404	0.390	0.343	0.711
U5	-0.038	0.250	0.176	0.083	0.310	0.258	0.198	0.485
U6	-0.043	0.106	0.127	0.044	0.212	0.126	0.147	0.243
U7	-0.108	-0.000	0.022	0.003	0.056	0.011	-0.009	0.026
U7A	-0.112	-0.004	0.026	-0.001	0.055	0.011	0.018	0.017

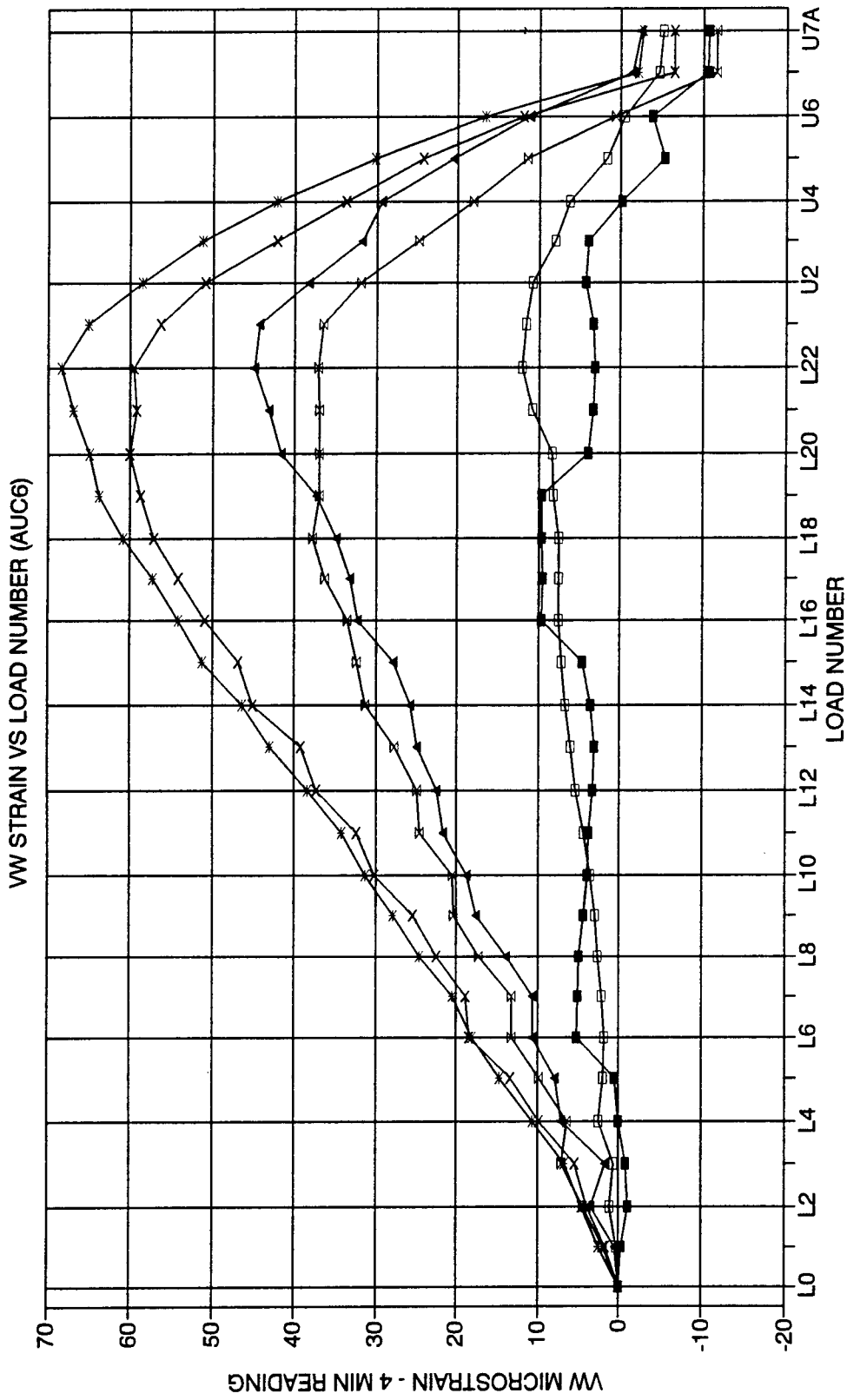

Figure F.95 Strain at Pile Top: Aucilla Load Test 6

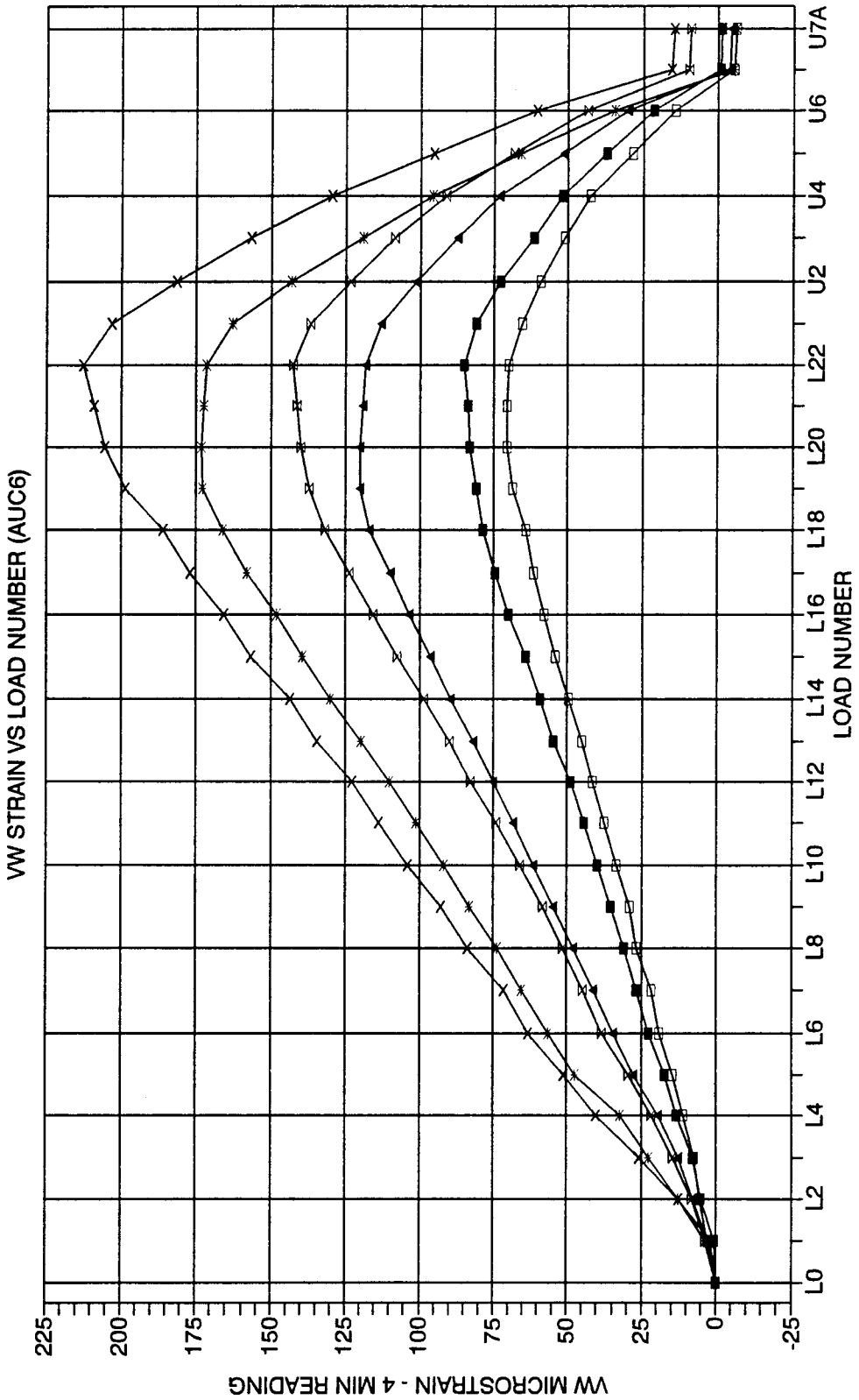

Figure F.96 Strain at Pile Middle: Aucilla Load Test 6

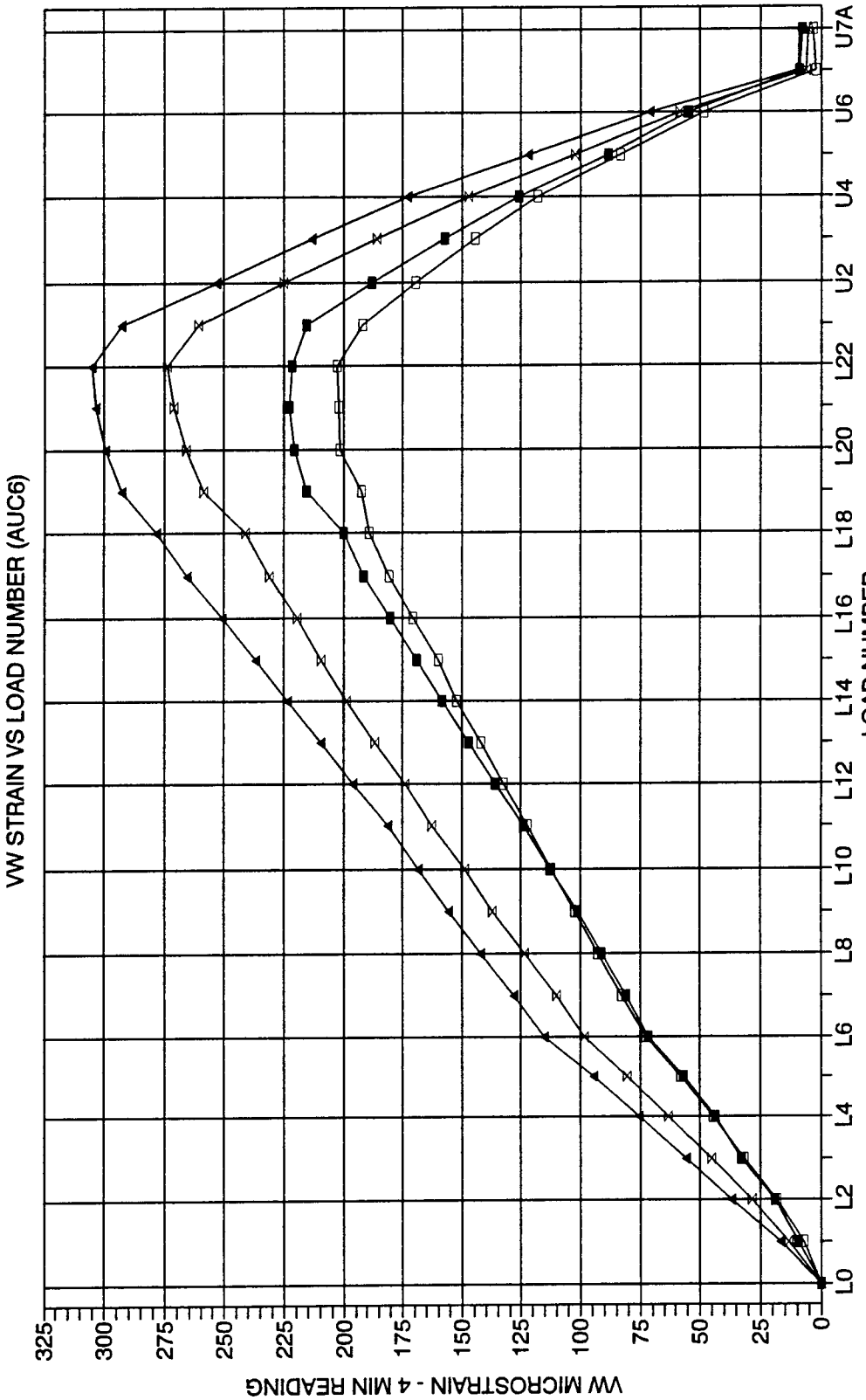

Figure F.97 Strain at Pile Bottom: Aucilla Load Test 6

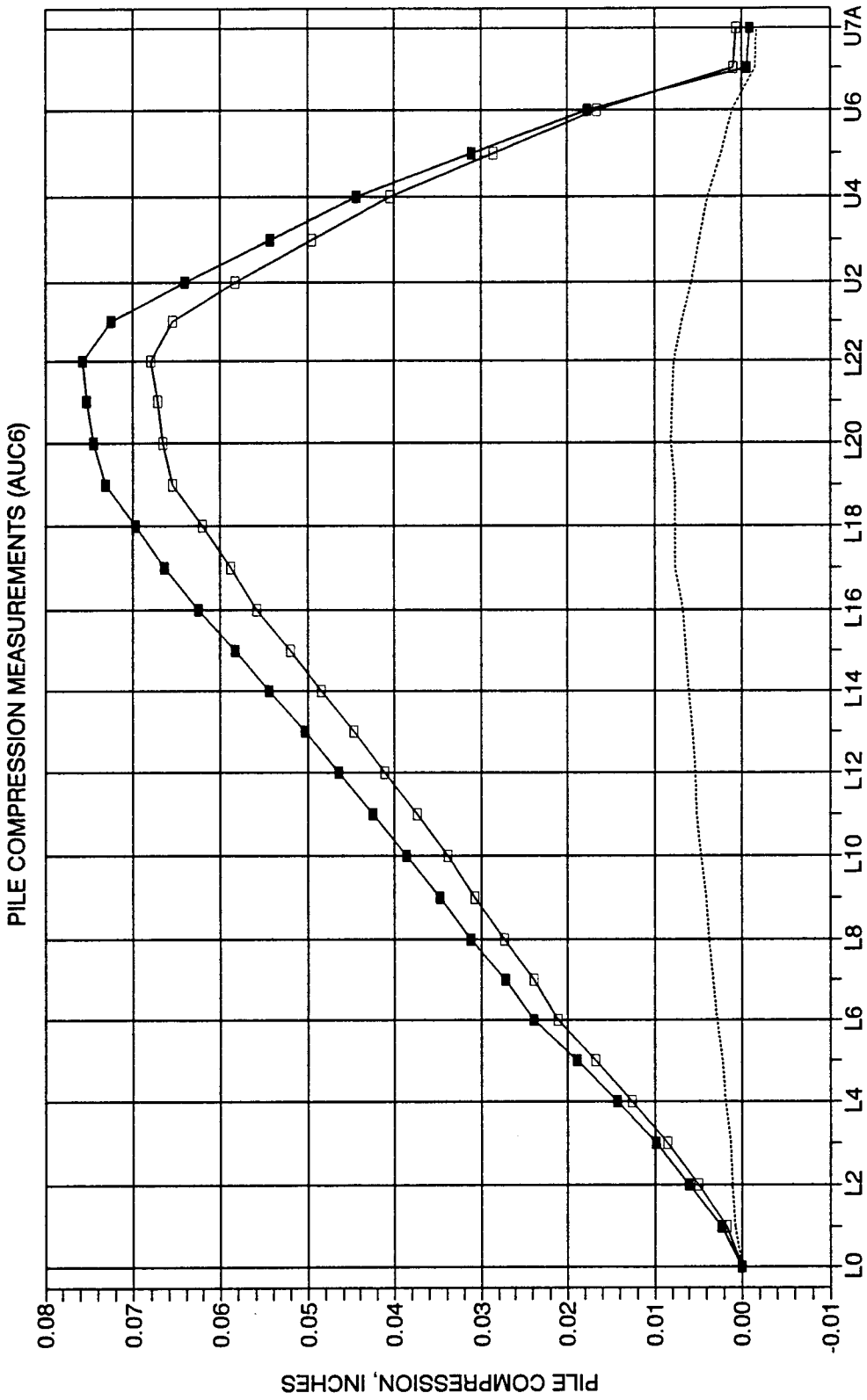

Figure F.98 Pile Compression Measurements: Aucilla Load Test 6

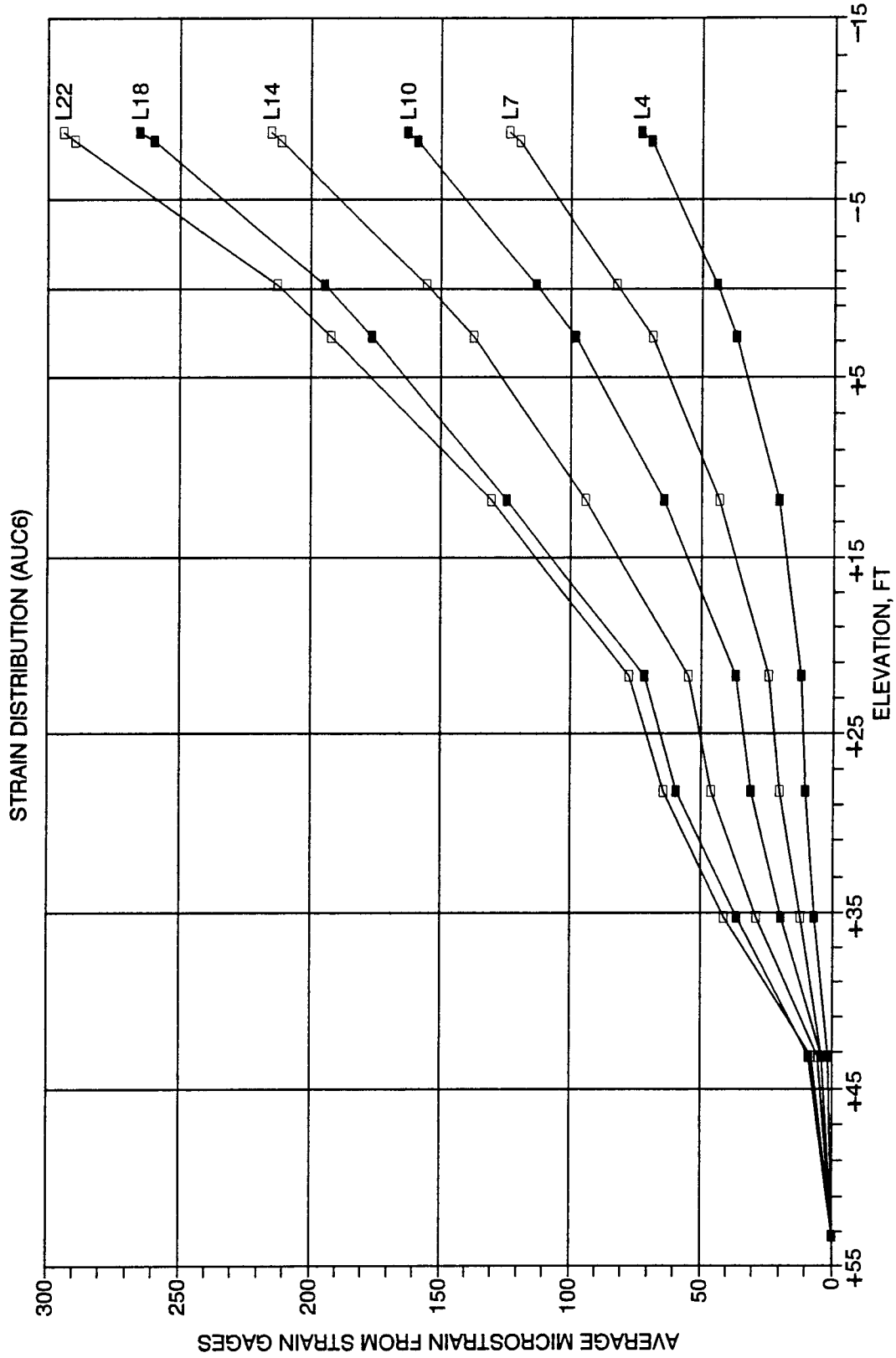

Figure F.99 Pile Strain Distribution: Aucilla Load Test 6

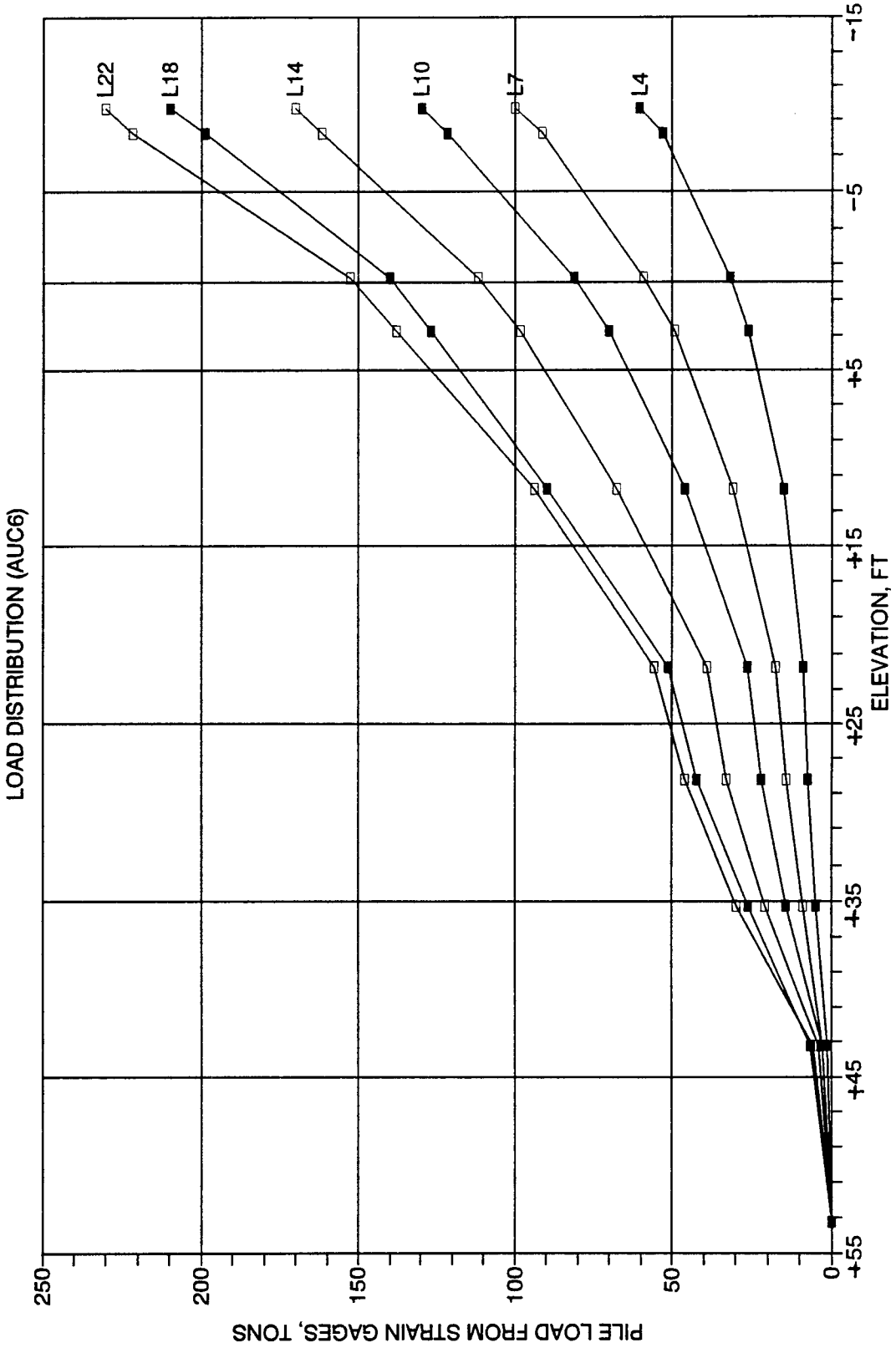

Figure F.100 Pile Load Distribution: Aucilla Load Test 6

Table F.20 Strain Analyses: Vilano East Load Test 1

VIBRATING WIRE INSTRUMENT READINGS - STRAIN

VLE 1 LOAD NUMBER	TIME	VW STRN FREQ^2 KHZ^2 53	VW STRN FREQ^2 KHZ^2 54	VW STRN FREQ^2 KHZ^2 46	VW STRN FREQ^2 KHZ^2 45	VW STRN FREQ^2 KHZ^2 48	VW STRN FREQ^2 KHZ^2 47	VW STRN FREQ^2 KHZ^2 49	VW STRN FREQ^2 KHZ^2 50	VW STRN FREQ^2 KHZ^2 51	VW STRN FREQ KHZ^2 52
L0	18:00:00	0.67907	0.67710	0.68821	0.61523	0.66223	0.64133	0.71465	0.63435	0.76031	0.69878
L0	18:15:00	0.67881	0.67755	0.68829	0.61526	0.66226	0.64135	0.71466	0.63435	0.76041	0.69883
L0	18:30:00	0.67907	0.67760	0.68836	0.61533	0.66229	0.64136	0.71471	0.63435	0.76050	0.69889
L0	18:45:00	0.67923	0.67769	0.68846	0.61539	0.66232	0.64138	0.71471	0.63435	0.76057	0.69894
L0	19:00:00	0.67934	0.67772	0.68850	0.61547	0.66233	0.64140	0.71474	0.63436	0.76062	0.69899
L0	19:15:00	0.67955	0.67770	0.68853	0.61548	0.66236	0.64140	0.71476	0.63436	0.76066	0.69902
L0	19:30:00	0.67959	0.67776	0.68859	0.61560	0.66240	0.64143	0.71477	0.63439	0.76070	0.69907
L0	19:45:00	0.67963	0.67786	0.68865	0.61567	0.66242	0.64144	0.71480	0.63440	0.76073	0.69912
L0	20:00:00	0.67974	0.67777	0.68872	0.61563	0.66242	0.64143	0.71480	0.63438	0.76078	0.69917
L0	20:15:00	0.67978	0.67793	0.68879	0.61573	0.66245	0.64144	0.71485	0.63439	0.76082	0.69924
L0	20:34:40	0.67978	0.67811	0.68881	0.61578	0.66246	0.64144	0.71485	0.63439	0.76088	0.69931
L0	20:36:55	0.67983	0.67814	0.68884	0.61582	0.66248	0.64145	0.71487	0.63440	0.76089	0.69933
L1	20:43:23	0.67983	0.67815	0.68887	0.61583	0.66248	0.64145	0.71489	0.63440	0.76087	0.69929
L1	20:43:51	0.67982	0.67816	0.68886	0.61583	0.66247	0.64146	0.71491	0.63440	0.76086	0.69929
L1	20:44:51	0.67982	0.67816	0.68888	0.61582	0.66248	0.64146	0.71490	0.63440	0.76086	0.69930
L1	20:46:50	0.67986	0.67815	0.68888	0.61582	0.66248	0.64145	0.71490	0.63441	0.76087	0.69931
L2	20:48:15	0.67986	0.67816	0.68888	0.61583	0.66248	0.64146	0.71490	0.63440	0.76072	0.69911
L2	20:48:46	0.67984	0.67816	0.68890	0.61583	0.66248	0.64146	0.71490	0.63440	0.76074	0.69910
L2	20:49:46	0.67985	0.67817	0.68891	0.61583	0.66248	0.64146	0.71490	0.63441	0.76073	0.69911
L2	20:51:44	0.67987	0.67817	0.68891	0.61584	0.66248	0.64146	0.71491	0.63441	0.76074	0.69912
L3	20:52:56	0.67991	0.67817	0.68892	0.61584	0.66248	0.64146	0.71491	0.63440	0.76060	0.69897
L3	20:53:27	0.67987	0.67817	0.68893	0.61585	0.66248	0.64146	0.71491	0.63440	0.76060	0.69897
L3	20:54:35	0.67990	0.67818	0.68892	0.61584	0.66248	0.64146	0.71491	0.63440	0.76062	0.69897
L3	20:56:26	0.67989	0.67817	0.68893	0.61584	0.66248	0.64146	0.71491	0.63440	0.76060	0.69898
L4	20:57:33	0.67989	0.67818	0.68894	0.61584	0.66249	0.64146	0.71491	0.63440	0.76044	0.69887
L4	20:58:08	0.67991	0.67817	0.68895	0.61585	0.66248	0.64146	0.71491	0.63440	0.76043	0.69886
L4	20:59:06	0.67990	0.67819	0.68895	0.61584	0.66249	0.64146	0.71489	0.63441	0.76045	0.69886
L4	21:01:04	0.67996	0.67818	0.68896	0.61584	0.66249	0.64146	0.71491	0.63440	0.76047	0.69886
L5	21:02:32	0.67994	0.67819	0.68896	0.61586	0.66249	0.64147	0.71491	0.63440	0.76016	0.69869
L5	21:03:02	0.67995	0.67819	0.68897	0.61585	0.66250	0.64147	0.71492	0.63441	0.76015	0.69869
L5	21:04:04	0.67995	0.67820	0.68895	0.61584	0.66249	0.64146	0.71492	0.63440	0.76017	0.69870
L5	21:06:02	0.67999	0.67820	0.68898	0.61585	0.66250	0.64147	0.71492	0.63440	0.76016	0.69871
L6	21:07:10	0.67999	0.67820	0.68898	0.61585	0.66249	0.64146	0.71491	0.63440	0.75998	0.69848
L6	21:07:40	0.67998	0.67821	0.68898	0.61586	0.66249	0.64147	0.71492	0.63440	0.75998	0.69847
L6	21:08:42	0.67998	0.67820	0.68898	0.61585	0.66249	0.64147	0.71492	0.63440	0.75998	0.69849
L6	21:10:41	0.68000	0.67820	0.68900	0.61586	0.66250	0.64147	0.71493	0.63441	0.75998	0.69852
L7	21:11:55	0.68001	0.67819	0.68900	0.61586	0.66250	0.64147	0.71492	0.63440	0.75996	0.69845
L7	21:12:24	0.68001	0.67816	0.68900	0.61585	0.66250	0.64147	0.71492	0.63440	0.75993	0.69844
L7	21:13:25	0.68001	0.67818	0.68900	0.61587	0.66250	0.64147	0.71492	0.63441	0.75994	0.69845
L7	21:15:24	0.68003	0.67822	0.68902	0.61587	0.66250	0.64147	0.71493	0.63441	0.75994	0.69844
L8	21:16:37	0.68002	0.67823	0.68903	0.61586	0.66251	0.64147	0.71493	0.63441	0.75978	0.69837
L8	21:17:24	0.68004	0.67823	0.68902	0.61587	0.66250	0.64148	0.71493	0.63440	0.75979	0.69836
L8	21:18:00	0.68004	0.67823	0.68902	0.61586	0.66250	0.64148	0.71494	0.63440	0.75977	0.69836
L8	21:20:01	0.68004	0.67823	0.68904	0.61588	0.66251	0.64149	0.71493	0.63441	0.75979	0.69838
L9	21:21:18	0.68005	0.67823	0.68905	0.61587	0.66251	0.64148	0.71492	0.63440	0.75963	0.69822
L9	21:21:44	0.68005	0.67823	0.68904	0.61587	0.66251	0.64148	0.71493	0.63440	0.75964	0.69823
L9	21:22:44	0.68004	0.67822	0.68904	0.61586	0.66251	0.64148	0.71493	0.63440	0.75964	0.69824
L9	21:24:46	0.68006	0.67824	0.68905	0.61587	0.66252	0.64148	0.71494	0.63441	0.75965	0.69826
L10	21:25:59	0.68007	0.67825	0.68905	0.61587	0.66252	0.64148	0.71492	0.63438	0.75943	0.69805

Table F.20 continued

VIBRATING WIRE INSTRUMENT READINGS - STRAIN

VLE 1 LOAD NUMBER	TIME	VW STRN FREQ^2 KHZ^2 53	VW STRN FREQ^2 KHZ^2 54	VW STRN FREQ^2 KHZ^2 46	VW STRN FREQ^2 KHZ^2 45	VW STRN FREQ^2 KHZ^2 48	VW STRN FREQ^2 KHZ^2 47	VW STRN FREQ^2 KHZ^2 49	VW STRN FREQ^2 KHZ^2 50	VW STRN FREQ^2 KHZ^2 51	VW STRN FREQ KHZ^2 52
L10	21:26:28	0.68007	0.67824	0.68906	0.61588	0.66252	0.64148	0.71492	0.63439	0.75944	0.69806
L10	21:27:28	0.68007	0.67825	0.68905	0.61587	0.66251	0.64148	0.71493	0.63440	0.75943	0.69806
L10	21:29:40	0.68008	0.67826	0.68907	0.61587	0.66252	0.64148	0.71493	0.63440	0.75946	0.69809
L11	21:30:58	0.68007	0.67825	0.68907	0.61588	0.66250	0.64147	0.71490	0.63437	0.75907	0.69781
L11	21:31:33	0.68010	0.67824	0.68907	0.61585	0.66251	0.64148	0.71490	0.63437	0.75907	0.69782
L11	21:32:26	0.68010	0.67825	0.68908	0.61588	0.66251	0.64148	0.71491	0.63438	0.75908	0.69783
L11	21:34:26	0.68011	0.67823	0.68909	0.61588	0.66252	0.64148	0.71491	0.63438	0.75909	0.69785
L12	21:35:30	0.68010	0.67826	0.68908	0.61586	0.66250	0.64146	0.71483	0.63433	0.75859	0.69732
L12	21:36:00	0.68011	0.67826	0.68907	0.61587	0.66250	0.64146	0.71485	0.63433	0.75858	0.69731
L12	21:37:00	0.68010	0.67826	0.68909	0.61588	0.66249	0.64147	0.71485	0.63433	0.75859	0.69730
L12	21:39:01	0.68013	0.67825	0.68909	0.61587	0.66250	0.64147	0.71484	0.63434	0.75858	0.69732
L13	21:40:10	0.68012	0.67824	0.68907	0.61587	0.66247	0.64144	0.71474	0.63430	0.75792	0.69696
L13	21:40:56	0.68012	0.67823	0.68908	0.61587	0.66247	0.64145	0.71477	0.63430	0.75789	0.69693
L13	21:41:42	0.68013	0.67826	0.68907	0.61587	0.66247	0.64145	0.71475	0.63431	0.75791	0.69695
L13	21:43:36	0.68012	0.67826	0.68908	0.61588	0.66247	0.64145	0.71477	0.63430	0.75793	0.69696
L14	21:44:44	0.68011	0.67824	0.68904	0.61586	0.66244	0.64142	0.71444	0.63426	0.75713	0.69643
L14	21:45:15	0.68012	0.67827	0.68905	0.61587	0.66243	0.64143	0.71440	0.63426	0.75710	0.69641
L14	21:46:15	0.68015	0.67826	0.68905	0.61587	0.66243	0.64142	0.71465	0.63426	0.75708	0.69637
L14	21:48:15	0.68015	0.67827	0.68906	0.61585	0.66245	0.64142	0.71465	0.63426	0.75708	0.69639
L15	21:49:35	0.68014	0.67825	0.68903	0.61586	0.66238	0.64138	0.71466	0.63418	0.75638	0.69550
L15	21:50:06	0.68013	0.67826	0.68902	0.61586	0.66239	0.64138	0.71466	0.63418	0.75635	0.69553
L15	21:51:03	0.68014	0.67826	0.68903	0.61586	0.66239	0.64138	0.71465	0.63418	0.75634	0.69548
L15	21:53:05	0.68015	0.67827	0.68903	0.61586	0.66238	0.64139	0.71465	0.63418	0.75636	0.69551
L16	21:54:51	0.68015	0.67826	0.68897	0.61584	0.66227	0.64125	0.71480	0.63398	0.75517	0.69512
L16	21:55:23	0.68015	0.67825	0.68896	0.61585	0.66227	0.64125	0.71480	0.63397	0.75512	0.69507
L16	21:56:21	0.68012	0.67823	0.68896	0.61584	0.66229	0.64126	0.71480	0.63398	0.75515	0.69506
L16	21:58:21	0.68013	0.67825	0.68896	0.61584	0.66229	0.64125	0.71478	0.63394	0.75506	0.69511
L17	22:00:02	0.68013	0.67824	0.68885	0.61579	0.66213	0.64106	0.71429	0.63356	0.75324	0.69446
L17	22:00:39	0.68013	0.67824	0.68886	0.61577	0.66210	0.64104	0.71427	0.63356	0.75320	0.69444
L17	22:01:32	0.68014	0.67822	0.68884	0.61579	0.66211	0.64104	0.71426	0.63355	0.75320	0.69446
L17	22:03:34	0.68015	0.67822	0.68887	0.61577	0.66211	0.64103	0.71423	0.63355	0.75315	0.69446
L18	22:04:58	0.68014	0.67820	0.68872	0.61566	0.66187	0.64080	0.71366	0.63312	0.75134	0.69253
L18	22:05:25	0.68014	0.67819	0.68871	0.61564	0.66183	0.64082	0.71367	0.63310	0.75135	0.69248
L18	22:06:21	0.68012	0.67818	0.68871	0.61565	0.66183	0.64080	0.71359	0.63302	0.75121	0.69233
L18	22:08:20	0.68015	0.67816	0.68872	0.61565	0.66179	0.64079	0.71354	0.63295	0.75125	0.69235
L19	22:09:31	0.68013	0.67810	0.68860	0.61553	0.66157	0.64064	0.71272	0.63258	0.74943	0.69057
L19	22:10:02	0.68014	0.67809	0.68861	0.61554	0.66158	0.64064	0.71265	0.63257	0.74937	0.69047
L19	22:11:04	0.68015	0.67809	0.68861	0.61555	0.66160	0.64064	0.71254	0.63253	0.74937	0.69045
L19	22:13:02	0.68019	0.67808	0.68864	0.61558	0.66158	0.64064	0.71247	0.63249	0.74936	0.69043
L20	22:14:33	0.68017	0.67800	0.68855	0.61548	0.66156	0.64052	0.71299	0.63205	0.74743	0.68863
L20	22:15:04	0.68016	0.67800	0.68856	0.61550	0.66156	0.64053	0.71295	0.63205	0.74741	0.68856
L20	22:16:04	0.68018	0.67799	0.68858	0.61554	0.66157	0.64053	0.71292	0.63205	0.74743	0.68856
L20	22:18:03	0.68018	0.67802	0.68859	0.61556	0.66155	0.64052	0.71285	0.63200	0.74735	0.68833
L21	22:19:25	0.68017	0.67796	0.68852	0.61553	0.66157	0.64042	0.71207	0.63161	0.74567	0.68646
L21	22:19:54	0.68018	0.67794	0.68851	0.61553	0.66155	0.64043	0.71206	0.63156	0.74555	0.68641
L21	22:20:59	0.68020	0.67795	0.68853	0.61556	0.66156	0.64044	0.71204	0.63153	0.74557	0.68641
L21	22:22:57	0.68021	0.67800	0.68854	0.61560	0.66157	0.64045	0.71200	0.63148	0.74545	0.68625
L22	22:24:08	0.68020	0.67799	0.68853	0.61560	0.66156	0.64039	0.71148	0.63130	0.74433	0.68532
L22	22:24:39	0.68019	0.67801	0.68853	0.61561	0.66156	0.64039	0.71141	0.63129	0.74424	0.68532

Table F.20 continued

VIBRATING WIRE INSTRUMENT READINGS - STRAIN

VLE 1 LOAD NUMBER	TIME	VW STRN FREQ^2 KHZ^2 53	VW STRN FREQ^2 KHZ^2 54	VW STRN FREQ^2 KHZ^2 46	VW STRN FREQ^2 KHZ^2 45	VW STRN FREQ^2 KHZ^2 48	VW STRN FREQ^2 KHZ^2 47	VW STRN FREQ^2 KHZ^2 49	VW STRN FREQ^2 KHZ^2 50	VW STRN FREQ^2 KHZ^2 51	VW STRN FREQ KHZ^2 52
L22	22:25:38	0.68019	0.67803	0.68852	0.61562	0.66157	0.64041	0.71142	0.63128	0.74423	0.68533
L22	22:27:43	0.68021	0.67807	0.68854	0.61566	0.66155	0.64041	0.71136	0.63127	0.74411	0.68522
L23	22:29:03	0.68020	0.67805	0.68853	0.61565	0.66155	0.64038	0.71157	0.63114	0.74340	0.68427
L23	22:29:38	0.68022	0.67806	0.68853	0.61565	0.66155	0.64037	0.71153	0.63112	0.74338	0.68428
L23	22:30:37	0.68022	0.67808	0.68854	0.61567	0.66155	0.64038	0.71148	0.63111	0.74333	0.68426
L23	22:32:30	0.68024	0.67809	0.68855	0.61570	0.66154	0.64039	0.71143	0.63110	0.74323	0.68424
L24	22:33:37	0.68020	0.67809	0.68853	0.61566	0.66158	0.64033	0.71161	0.63090	0.74227	0.68319
L24	22:35:10	0.68023	0.67810	0.68854	0.61569	0.66157	0.64036	0.71153	0.63089	0.74218	0.68312
L24A	22:38:42	0.68025	0.67813	0.68857	0.61570	0.66156	0.64037	0.71157	0.63087	0.74218	0.68305
L25	22:39:48	0.68023	0.67813	0.68855	0.61569	0.66155	0.64032	0.71135	0.63068	0.74117	0.68182
L25	22:40:18	0.68023	0.67814	0.68856	0.61569	0.66155	0.64032	0.71127	0.63069	0.74107	0.68138
L25	22:41:19	0.68023	0.67814	0.68858	0.61572	0.66159	0.64034	0.71126	0.63071	0.74107	0.68158
L25	22:43:18	0.68025	0.67815	0.68859	0.61571	0.66159	0.64034	0.71115	0.63071	0.74089	0.68189
L26	22:44:41	0.68025	0.67814	0.68856	0.61570	0.66156	0.64030	0.71079	0.63067	0.74024	0.68094
L26	22:45:18	0.68024	0.67815	0.68859	0.61571	0.66158	0.64029	0.71071	0.63066	0.74022	0.68091
L26	22:46:12	0.68024	0.67816	0.68861	0.61572	0.66157	0.64032	0.71072	0.63068	0.74027	0.68094
L26	22:48:10	0.68026	0.67817	0.68861	0.61573	0.66157	0.64033	0.71061	0.63067	0.74023	0.68086
L27	22:49:18	0.68026	0.67815	0.68860	0.61571	0.66158	0.64028	0.71000	0.63054	0.73909	0.67985
L27	22:49:46	0.68026	0.67816	0.68860	0.61571	0.66158	0.64027	0.70994	0.63053	0.73908	0.67981
L27	22:50:46	0.68025	0.67815	0.68861	0.61571	0.66157	0.64028	0.70989	0.63053	0.73909	0.67970
L27	22:52:50	0.68027	0.67818	0.68863	0.61573	0.66157	0.64030	0.70984	0.63053	0.73906	0.67964
L28	22:54:02	0.68027	0.67819	0.68864	0.61572	0.66158	0.64027	0.70951	0.63036	0.73844	0.67892
L28	22:54:32	0.68028	0.67817	0.68864	0.61572	0.66155	0.64028	0.70949	0.63039	0.73845	0.67891
L28	22:55:29	0.68030	0.67819	0.68865	0.61572	0.66159	0.64028	0.71022	0.63042	0.73848	0.67891
L28	22:57:29	0.68028	0.67820	0.68864	0.61573	0.66160	0.64029	0.71028	0.63038	0.73842	0.67888
L29	22:58:47	0.68028	0.67820	0.68866	0.61572	0.66164	0.64027	0.71017	0.63020	0.73781	0.67802
L29	22:59:15	0.68029	0.67821	0.68866	0.61573	0.66157	0.64025	0.71012	0.63021	0.73780	0.67792
L29	23:00:18	0.68031	0.67820	0.68868	0.61573	0.66163	0.64027	0.71011	0.63020	0.73776	0.67796
L29	23:02:16	0.68031	0.67821	0.68870	0.61574	0.66159	0.64029	0.71009	0.63019	0.73774	0.67788
L30	23:03:24	0.68031	0.67821	0.68866	0.61573	0.66159	0.64026	0.70976	0.63008	0.73749	0.67762
L30	23:04:10	0.68030	0.67821	0.68867	0.61572	0.66157	0.64026	0.70966	0.63005	0.73736	0.67747
L30	23:04:50	0.68031	0.67819	0.68869	0.61573	0.66159	0.64025	0.70964	0.63006	0.73736	0.67747
L30	23:06:50	0.68035	0.67821	0.68871	0.61574	0.66159	0.64027	0.70959	0.63004	0.73722	0.67740
L31	23:08:05	0.68032	0.67822	0.68869	0.61572	0.66160	0.64023	0.70945	0.62997	0.73644	0.67665
L31	23:08:47	0.68031	0.67820	0.68870	0.61573	0.66162	0.64024	0.70945	0.62998	0.73639	0.67664
L31	23:09:34	0.68032	0.67821	0.68871	0.61574	0.66164	0.64024	0.70944	0.62996	0.73632	0.67650
L31	23:11:35	0.68031	0.67820	0.68873	0.61575	0.66164	0.64025	0.70943	0.62999	0.73634	0.67646
L32	23:12:38	0.68032	0.67822	0.68871	0.61573	0.66163	0.64021	0.70934	0.62992	0.73577	0.67595
L32	23:13:19	0.68034	0.67822	0.68872	0.61573	0.66166	0.64023	0.70934	0.62993	0.73579	0.67595
L32	23:14:10	0.68037	0.67822	0.68874	0.61573	0.66165	0.64024	0.70936	0.62994	0.73588	0.67607
L32	23:16:09	0.68034	0.67823	0.68874	0.61575	0.66167	0.64023	0.70930	0.62993	0.73580	0.67589
L33	23:17:23	0.68037	0.67823	0.68873	0.61572	0.66165	0.64019	0.70897	0.62984	0.73530	0.67527
L33	23:17:52	0.68037	0.67823	0.68873	0.61573	0.66166	0.64020	0.70901	0.62981	0.73531	0.67529
L33	23:18:50	0.68036	0.67823	0.68876	0.61574	0.66166	0.64021	0.70903	0.62979	0.73520	0.67519
L33	23:20:50	0.68037	0.67825	0.68875	0.61574	0.66164	0.64023	0.70920	0.62976	0.73536	0.67535
L34	23:21:50	0.68036	0.67823	0.68873	0.61571	0.66164	0.64016	0.70876	0.62922	0.73443	0.67444
L34	23:22:20	0.68033	0.67821	0.68871	0.61570	0.66158	0.64012	0.70853	0.62916	0.73452	0.67453
L34	23:23:23	0.68039	0.67823	0.68873	0.61570	0.66160	0.64013	0.70840	0.62921	0.73468	0.67429
L34	23:25:22	0.68040	0.67824	0.68875	0.61571	0.66163	0.64015	0.70847	0.62919	0.73461	0.67400

Table F.20 continued

VIBRATING WIRE INSTRUMENT READINGS - STRAIN

VLE 1 LOAD NUMBER	TIME	VW STRN FREQ^2 KHZ^2 53	VW STRN FREQ^2 KHZ^2 54	VW STRN FREQ^2 KHZ^2 46	VW STRN FREQ^2 KHZ^2 45	VW STRN FREQ^2 KHZ^2 48	VW STRN FREQ^2 KHZ^2 47	VW STRN FREQ^2 KHZ^2 49	VW STRN FREQ^2 KHZ^2 50	VW STRN FREQ^2 KHZ^2 51	VW STRN FREQ KHZ^2 52
L35	23:26:31	0.68040	0.67822	0.68871	0.61569	0.66160	0.64010	0.70823	0.62900	0.73392	0.67316
L35	23:27:04	0.68037	0.67823	0.68870	0.61569	0.66157	0.64010	0.70819	0.62893	0.73377	0.67293
L35	23:28:00	0.68040	0.67824	0.68873	0.61572	0.66161	0.64012	0.70831	0.62907	0.73381	0.67294
L35	23:30:00	0.68041	0.67825	0.68874	0.61573	0.66156	0.64012	0.70832	0.62906	0.73368	0.67264
L36	23:31:09	0.68037	0.67823	0.68867	0.61567	0.66160	0.64007	0.70829	0.62899	0.73293	0.67159
L36	23:31:49	0.68039	0.67824	0.68870	0.61572	0.66156	0.64007	0.70835	0.62902	0.73277	0.67144
L36	23:32:40	0.68040	0.67825	0.68871	0.61571	0.66159	0.64007	0.70843	0.62906	0.73279	0.67141
L36	23:34:40	0.68043	0.67825	0.68872	0.61572	0.66160	0.64008	0.70867	0.62913	0.73270	0.67136
L37	23:35:44	0.68038	0.67823	0.68862	0.61562	0.66156	0.64003	0.70888	0.62921	0.73171	0.67062
L37	23:36:14	0.68040	0.67823	0.68862	0.61559	0.66157	0.63999	0.70924	0.62922	0.73143	0.67024
L37A	23:37:13	0.68033	0.67817	0.68850	0.61524	0.66122	0.63966	0.70958	0.62922	0.73514	0.67427
L37A	23:38:13	0.68034	0.67815	0.68851	0.61515	0.66112	0.63959	0.70932	0.63442	0.75913	0.69995
L37B	23:39:16	0.68032	0.67821	0.68887	0.61541	0.66192	0.64066	0.71380	0.63294	0.75510	0.69561
L37B	23:41:16	0.68036	0.67820	0.68894	0.61542	0.66196	0.64067	0.71384	0.63298	0.75515	0.69580
U1	23:47:06	0.68054	0.67830	0.68937	0.61589	0.66273	0.64169	0.71585	0.63486	0.76072	0.70201
U2	23:52:12	0.68070	0.67849	0.68980	0.61653	0.66405	0.64281	0.71727	0.63682	0.76833	0.71003
U3	23:56:32	0.68071	0.67845	0.69003	0.61672	0.66437	0.64320	0.71850	0.63760	0.77265	0.71485
U4	00:00:09	0.68076	0.67845	0.69019	0.61696	0.66473	0.64364	0.71936	0.63802	0.77599	0.71893
U4A	00:03:07	0.68077	0.67844	0.69021	0.61697	0.66474	0.64364	0.71937	0.63801	0.77599	0.71896
U5	00:15:00	0.68090	0.67843	0.69030	0.61699	0.66477	0.64365	0.71939	0.63803	0.77603	0.71905
U5	00:30:00	0.68101	0.67840	0.69039	0.61703	0.66481	0.64366	0.71939	0.63804	0.77611	0.71918
U5	00:45:00	0.68107	0.67840	0.69044	0.61706	0.66483	0.64367	0.71939	0.63805	0.77630	0.71928
U5	01:00:00	0.68113	0.67843	0.69049	0.61708	0.66485	0.64368	0.71940	0.63807	0.77661	0.71934
U5	01:15:00	0.68116	0.67847	0.69051	0.61710	0.66485	0.64368	0.71939	0.63807	0.77675	0.71939
U5	01:30:00	0.68120	0.67850	0.69055	0.61711	0.66488	0.64368	0.71940	0.63806	0.77681	0.71943
U5	01:45:00	0.68125	0.67855	0.69057	0.61712	0.66486	0.64367	0.71939	0.63806	0.77684	0.71948
U5	02:00:00	0.68128	0.67859	0.69060	0.61714	0.66486	0.64367	0.71939	0.63805	0.77685	0.71952
U5	02:15:00	0.68131	0.67865	0.69062	0.61714	0.66485	0.64366	0.71939	0.63805	0.77686	0.71956
U5	02:30:00	0.68133	0.67871	0.69065	0.61715	0.66486	0.64366	0.71939	0.63805	0.77687	0.71961

Table F.20 continued

VIBRATING WIRE INSTRUMENT READINGS - TEMPERATURE

VLE 1 LOAD NUMBER	TIME	VW STRN TEMP DEG C 53	VW STRN TEMP DEG C 54	VW STRN TEMP DEG C 46	VW STRN TEMP DEG C 45	VW STRN TEMP DEG C 48	VW STRN TEMP DEG C 47	VW STRN TEMP DEG C 49	VW STRN TEMP DEG C 50	VW STRN TEMP DEG C 51	VW STRN TEMP DEG C 52
L0	18:00:00	22.565	22.439	21.937	21.843	22.629	22.439	23.552	23.456	25.014	25.411
L0	18:15:00	22.504	22.409	21.907	21.814	22.630	22.409	23.521	23.425	24.983	25.379
L0	18:30:00	22.441	22.378	21.876	21.783	22.630	22.410	23.522	23.426	24.951	25.347
L0	18:45:00	22.410	22.315	21.845	21.752	22.599	22.410	23.522	23.426	24.918	25.314
L0	19:00:00	22.378	22.284	21.814	21.721	22.599	22.410	23.522	23.426	24.885	25.281
L0	19:15:00	22.308	22.245	21.745	21.683	22.592	22.403	23.515	23.418	24.844	25.240
L0	19:30:00	22.275	22.212	21.711	21.649	22.558	22.369	23.512	23.416	24.809	25.204
L0	19:45:00	22.213	22.150	21.712	21.619	22.559	22.401	23.513	23.417	24.777	25.172
L0	20:00:00	22.187	22.124	21.656	21.593	22.565	22.375	23.519	23.423	24.751	25.145
L0	20:15:00	22.127	22.127	21.658	21.596	22.536	22.378	23.490	23.394	24.721	25.115
L0	20:34:40	22.100	22.069	21.600	21.569	22.540	22.351	23.494	23.398	24.693	25.120
L0	20:36:55	22.101	22.070	21.602	21.570	22.510	22.352	23.496	23.400	24.694	25.089
L1	20:43:23	22.072	22.040	21.603	21.541	22.512	22.354	23.497	23.401	24.696	25.057
L1	20:43:51	22.072	22.040	21.603	21.541	22.512	22.354	23.497	23.401	24.696	25.057
L1	20:44:51	22.072	22.040	21.603	21.541	22.512	22.354	23.497	23.401	24.695	25.056
L1	20:46:50	22.101	22.039	21.602	21.540	22.510	22.353	23.496	23.400	24.695	25.056
L2	20:48:15	22.071	22.040	21.603	21.540	22.511	22.354	23.497	23.401	24.695	25.057
L2	20:48:46	22.102	22.040	21.603	21.540	22.511	22.385	23.497	23.401	24.695	25.057
L2	20:49:46	22.071	22.040	21.603	21.540	22.511	22.354	23.497	23.401	24.663	25.057
L2	20:51:44	22.072	22.009	21.603	21.541	22.512	22.354	23.498	23.402	24.696	25.058
L3	20:52:56	22.072	22.009	21.603	21.541	22.512	22.354	23.498	23.402	24.664	25.058
L3	20:53:27	22.072	22.009	21.572	21.541	22.512	22.354	23.498	23.402	24.696	25.058
L3	20:54:35	22.041	22.010	21.573	21.511	22.512	22.355	23.498	23.402	24.697	25.091
L3	20:56:26	22.041	22.010	21.573	21.511	22.512	22.355	23.498	23.402	24.664	25.058
L4	20:57:33	22.041	22.010	21.573	21.511	22.513	22.355	23.499	23.403	24.698	25.059
L4	20:58:08	22.041	22.010	21.573	21.511	22.513	22.355	23.499	23.403	24.698	25.059
L4	20:59:06	22.041	22.010	21.573	21.511	22.513	22.355	23.499	23.403	24.698	25.026
L4	21:01:04	22.042	22.010	21.574	21.512	22.513	22.356	23.467	23.403	24.698	25.026
L5	21:02:32	22.042	22.010	21.574	21.512	22.513	22.356	23.500	23.403	24.698	25.027
L5	21:03:02	22.042	22.011	21.574	21.512	22.545	22.356	23.500	23.403	24.698	25.027
L5	21:04:04	22.042	22.011	21.574	21.512	22.514	22.325	23.500	23.403	24.698	25.027
L5	21:06:02	22.011	22.011	21.574	21.512	22.514	22.325	23.500	23.404	24.633	25.027
L6	21:07:10	22.011	22.011	21.574	21.512	22.514	22.325	23.500	23.404	24.698	25.027
L6	21:07:40	22.011	22.011	21.574	21.512	22.514	22.356	23.500	23.404	24.698	25.027
L6	21:08:42	22.011	22.011	21.574	21.512	22.514	22.357	23.468	23.404	24.699	25.027
L6	21:10:41	22.011	22.011	21.574	21.512	22.514	22.325	23.468	23.404	24.633	25.027
L7	21:11:55	22.011	21.980	21.543	21.512	22.514	22.357	23.468	23.404	24.699	24.994
L7	21:12:24	22.043	21.980	21.543	21.512	22.514	22.325	23.500	23.404	24.699	24.994
L7	21:13:25	22.011	21.980	21.543	21.512	22.514	22.325	23.468	23.404	24.699	24.994
L7	21:15:24	22.012	21.980	21.544	21.512	22.514	22.325	23.468	23.404	24.699	24.994
L8	21:16:37	22.012	21.980	21.544	21.512	22.514	22.325	23.468	23.404	24.699	24.994
L8	21:17:24	22.012	21.980	21.544	21.513	22.514	22.325	23.468	23.404	24.699	24.995
L8	21:18:00	22.012	21.980	21.544	21.513	22.514	22.325	23.468	23.404	24.601	24.995
L8	21:20:01	22.012	21.980	21.544	21.513	22.514	22.325	23.468	23.404	24.699	24.995
L9	21:21:18	21.980	21.980	21.544	21.513	22.514	22.325	23.468	23.404	24.601	25.028
L9	21:21:44	22.012	21.980	21.544	21.513	22.514	22.325	23.468	23.404	24.699	24.995
L9	21:22:44	21.980	21.980	21.544	21.482	22.514	22.325	23.468	23.404	24.601	24.995
L9	21:24:46	21.980	21.949	21.544	21.482	22.483	22.325	23.468	23.404	24.601	24.995
L10	21:25:59	21.980	21.949	21.544	21.482	22.515	22.325	23.468	23.404	24.601	24.995

Table F.20 continued

VIBRATING WIRE INSTRUMENT READINGS - TEMPERATURE

VLE 1 LOAD NUMBER	TIME	VW STRN TEMP DEG C 53	VW STRN TEMP DEG C 54	VW STRN TEMP DEG C 46	VW STRN TEMP DEG C 45	VW STRN TEMP DEG C 48	VW STRN TEMP DEG C 47	VW STRN TEMP DEG C 49	VW STRN TEMP DEG C 50	VW STRN TEMP DEG C 51	VW STRN TEMP DEG C 52
L10	21:26:28	21.980	21.949	21.513	21.482	22.515	22.326	23.468	23.404	24.699	24.995
L10	21:27:28	21.980	21.980	21.513	21.482	22.515	22.326	23.468	23.404	24.601	24.995
L10	21:29:40	21.981	21.949	21.513	21.482	22.515	22.326	23.468	23.404	24.568	24.962
L11	21:30:58	21.981	21.949	21.513	21.482	22.483	22.326	23.468	23.404	24.699	24.962
L11	21:31:33	21.981	21.949	21.513	21.482	22.515	22.326	23.468	23.404	24.699	24.962
L11	21:32:26	21.981	21.949	21.513	21.482	22.483	22.357	23.469	23.404	24.699	24.962
L11	21:34:26	21.981	21.949	21.513	21.482	22.483	22.326	23.469	23.404	24.699	24.962
L12	21:35:30	21.981	21.949	21.513	21.482	22.483	22.326	23.469	23.405	24.568	24.962
L12	21:36:00	21.981	21.949	21.513	21.482	22.483	22.326	23.469	23.405	24.699	24.962
L12	21:37:00	21.949	21.949	21.513	21.482	22.483	22.326	23.469	23.405	24.568	24.962
L12	21:39:01	21.949	21.918	21.513	21.482	22.483	22.326	23.469	23.404	24.569	24.962
L13	21:40:10	21.949	21.918	21.513	21.451	22.483	22.326	23.469	23.404	24.569	24.962
L13	21:40:56	21.949	21.918	21.513	21.451	22.483	22.326	23.469	23.405	24.699	24.962
L13	21:41:42	21.949	21.918	21.513	21.482	22.515	22.326	23.469	23.405	24.699	24.962
L13	21:43:36	21.949	21.918	21.513	21.451	22.483	22.357	23.469	23.405	24.569	24.962
L14	21:44:44	21.949	21.918	21.513	21.451	22.483	22.326	23.469	23.405	24.569	24.995
L14	21:45:15	21.949	21.918	21.513	21.451	22.483	22.326	23.469	23.405	24.569	24.962
L14	21:46:15	21.949	21.918	21.513	21.451	22.483	22.326	23.469	23.405	24.569	24.962
L14	21:48:15	21.918	21.918	21.513	21.451	22.483	22.326	23.469	23.405	24.569	24.929
L15	21:49:35	21.918	21.918	21.513	21.451	22.483	22.326	23.469	23.404	24.569	24.929
L15	21:50:06	21.918	21.918	21.513	21.451	22.483	22.357	23.469	23.373	24.569	24.929
L15	21:51:03	21.918	21.918	21.513	21.451	22.515	22.326	23.469	23.404	24.569	24.929
L15	21:53:05	21.918	21.918	21.482	21.451	22.483	22.326	23.469	23.372	24.536	24.929
L16	21:54:51	21.918	21.918	21.482	21.451	22.483	22.326	23.469	23.405	24.536	24.962
L16	21:55:23	21.918	21.918	21.482	21.451	22.483	22.326	23.469	23.405	24.536	24.929
L16	21:56:21	21.918	21.887	21.482	21.451	22.483	22.326	23.469	23.405	24.536	24.929
L16	21:58:21	21.918	21.887	21.482	21.451	22.483	22.326	23.469	23.373	24.536	24.929
L17	22:00:02	21.918	21.887	21.482	21.420	22.483	22.326	23.469	23.373	24.536	24.929
L17	22:00:39	21.918	21.887	21.482	21.420	22.483	22.326	23.469	23.373	24.536	24.929
L17	22:01:32	21.918	21.887	21.482	21.420	22.483	22.326	23.469	23.373	24.536	24.929
L17	22:03:34	21.887	21.887	21.482	21.420	22.483	22.326	23.469	23.373	24.536	24.962
L18	22:04:58	21.887	21.887	21.482	21.420	22.483	22.326	23.437	23.373	24.536	24.929
L18	22:05:25	21.887	21.887	21.482	21.420	22.483	22.326	23.469	23.373	24.536	24.929
L18	22:06:21	21.887	21.887	21.482	21.420	22.515	22.357	23.437	23.373	24.569	24.929
L18	22:08:20	21.918	21.887	21.482	21.420	22.483	22.294	23.437	23.373	24.536	24.929
L19	22:09:31	21.887	21.887	21.482	21.420	22.483	22.326	23.437	23.373	24.503	24.896
L19	22:10:02	21.887	21.887	21.451	21.420	22.483	22.294	23.437	23.373	24.503	24.896
L19	22:11:04	21.918	21.887	21.482	21.420	22.483	22.294	23.437	23.373	24.503	24.896
L19	22:13:02	21.887	21.887	21.451	21.420	22.452	22.294	23.437	23.373	24.503	24.896
L20	22:14:33	21.887	21.856	21.451	21.420	22.483	22.294	23.437	23.373	24.503	24.896
L20	22:15:04	21.887	21.856	21.451	21.420	22.452	22.294	23.437	23.373	24.536	24.896
L20	22:16:04	21.887	21.856	21.451	21.420	22.452	22.294	23.437	23.373	24.503	24.896
L20	22:18:03	21.856	21.856	21.451	21.420	22.483	22.294	23.437	23.373	24.503	24.896
L21	22:19:25	21.856	21.856	21.451	21.420	22.452	22.326	23.437	23.373	24.503	24.896
L21	22:19:54	21.856	21.856	21.451	21.420	22.452	22.294	23.437	23.373	24.503	24.896
L21	22:20:59	21.856	21.856	21.451	21.420	22.452	22.294	23.437	23.373	24.503	24.896
L21	22:22:57	21.856	21.856	21.451	21.389	22.452	22.294	23.437	23.373	24.503	24.896
L22	22:24:08	21.856	21.856	21.451	21.389	22.483	22.294	23.437	23.373	24.503	24.896
L22	22:24:39	21.856	21.856	21.451	21.389	22.452	22.294	23.437	23.373	24.471	24.896

Table F.20 continued

VIBRATING WIRE INSTRUMENT READINGS - TEMPERATURE

VLE 1 LOAD NUMBER	TIME	VW STRN TEMP DEG C 53	VW STRN TEMP DEG C 54	VW STRN TEMP DEG C 46	VW STRN TEMP DEG C 45	VW STRN TEMP DEG C 48	VW STRN TEMP DEG C 47	VW STRN TEMP DEG C 49	VW STRN TEMP DEG C 50	VW STRN TEMP DEG C 51	VW STRN TEMP DEG C 52
L22	22:25:38	21.856	21.856	21.451	21.389	22.452	22.294	23.469	23.373	24.471	24.896
L22	22:27:43	21.856	21.856	21.420	21.420	22.452	22.294	23.437	23.373	24.471	24.896
L23	22:29:03	21.856	21.856	21.420	21.389	22.452	22.294	23.437	23.373	24.471	24.863
L23	22:29:38	21.856	21.856	21.420	21.389	22.483	22.294	23.437	23.373	24.471	24.863
L23	22:30:37	21.856	21.856	21.420	21.389	22.452	22.294	23.437	23.373	24.471	24.863
L23	22:32:30	21.856	21.824	21.420	21.389	22.452	22.294	23.437	23.373	24.471	24.863
L24	22:33:37	21.856	21.856	21.420	21.389	22.452	22.294	23.437	23.373	24.471	24.863
L24	22:35:10	21.856	21.824	21.420	21.389	22.452	22.294	23.437	23.373	24.471	24.896
L24A	22:38:42	21.824	21.824	21.420	21.389	22.452	22.294	23.437	23.373	24.471	24.863
L25	22:39:48	21.824	21.824	21.420	21.389	22.452	22.294	23.437	23.373	24.471	24.863
L25	22:40:18	21.824	21.824	21.420	21.389	22.452	22.294	23.437	23.373	24.471	24.863
L25	22:41:19	21.824	21.824	21.420	21.389	22.452	22.294	23.437	23.405	24.471	24.863
L25	22:43:18	21.824	21.824	21.420	21.389	22.452	22.294	23.437	23.373	24.438	24.831
L26	22:44:41	21.824	21.824	21.420	21.389	22.452	22.294	23.437	23.373	24.471	24.831
L26	22:45:18	21.824	21.824	21.420	21.389	22.452	22.326	23.437	23.373	24.438	24.831
L26	22:46:12	21.824	21.824	21.420	21.389	22.452	22.294	23.437	23.373	24.438	24.831
L26	22:48:10	21.824	21.824	21.420	21.389	22.452	22.294	23.437	23.373	24.438	24.831
L27	22:49:18	21.824	21.824	21.389	21.389	22.452	22.294	23.437	23.373	24.438	24.831
L27	22:49:46	21.824	21.824	21.389	21.389	22.452	22.294	23.437	23.373	24.438	24.863
L27	22:50:46	21.824	21.824	21.420	21.389	22.452	22.294	23.437	23.373	24.438	24.831
L27	22:52:50	21.824	21.824	21.389	21.389	22.452	22.294	23.437	23.373	24.438	24.831
L28	22:54:02	21.793	21.793	21.389	21.389	22.452	22.294	23.437	23.373	24.438	24.831
L28	22:54:32	21.793	21.824	21.389	21.389	22.452	22.294	23.437	23.373	24.438	24.831
L28	22:55:29	21.793	21.793	21.389	21.389	22.452	22.294	23.437	23.373	24.438	24.831
L28	22:57:29	21.793	21.793	21.389	21.358	22.420	22.294	23.437	23.373	24.438	24.831
L29	22:58:47	21.824	21.824	21.389	21.358	22.420	22.294	23.437	23.405	24.438	24.831
L29	22:59:15	21.793	21.793	21.389	21.358	22.452	22.294	23.437	23.373	24.438	24.831
L29	23:00:18	21.793	21.793	21.389	21.358	22.452	22.263	23.437	23.373	24.438	24.831
L29	23:02:16	21.793	21.793	21.389	21.358	22.420	22.263	23.437	23.373	24.438	24.831
L30	23:03:24	21.793	21.793	21.389	21.358	22.420	22.263	23.437	23.373	24.438	24.798
L30	23:04:10	21.793	21.793	21.389	21.358	22.420	22.263	23.437	23.373	24.438	24.798
L30	23:04:50	21.793	21.793	21.389	21.358	22.420	22.263	23.437	23.373	24.438	24.798
L30	23:06:50	21.762	21.793	21.389	21.358	22.420	22.263	23.437	23.341	24.438	24.798
L31	23:08:05	21.762	21.793	21.389	21.358	22.420	22.263	23.437	23.373	24.438	24.831
L31	23:08:47	21.762	21.762	21.389	21.358	22.420	22.263	23.437	23.373	24.438	24.798
L31	23:09:34	21.793	21.762	21.389	21.358	22.420	22.263	23.437	23.373	24.438	24.831
L31	23:11:35	21.762	21.762	21.389	21.358	22.420	22.263	23.437	23.341	24.405	24.831
L32	23:12:38	21.762	21.762	21.389	21.358	22.420	22.263	23.437	23.341	24.405	24.831
L32	23:13:19	21.793	21.762	21.389	21.358	22.420	22.263	23.437	23.341	24.405	24.798
L32	23:14:10	21.793	21.762	21.389	21.358	22.420	22.263	23.437	23.373	24.405	24.798
L32	23:16:09	21.762	21.762	21.389	21.358	22.420	22.263	23.437	23.373	24.405	24.798
L33	23:17:23	21.762	21.762	21.389	21.358	22.420	22.263	23.437	23.341	24.405	24.798
L33	23:17:52	21.762	21.762	21.389	21.358	22.420	22.263	23.437	23.341	24.405	24.798
L33	23:18:50	21.762	21.762	21.389	21.358	22.420	22.263	23.437	23.341	24.405	24.798
L33	23:20:50	21.762	21.762	21.358	21.327	22.452	22.263	23.437	23.341	24.405	24.798
L34	23:21:50	21.762	21.762	21.358	21.327	22.420	22.263	23.437	23.373	24.405	24.798
L34	23:22:20	21.762	21.762	21.358	21.327	22.420	22.263	23.405	23.341	24.405	24.798
L34	23:23:23	21.762	21.762	21.358	21.327	22.420	22.263	23.437	23.341	24.405	24.798
L34	23:25:22	21.762	21.762	21.358	21.327	22.420	22.263	23.437	23.341	24.405	24.798

Table F.20 continued

VIBRATING WIRE INSTRUMENT READINGS - TEMPERATURE

VLE 1 LOAD NUMBER	TIME	VW STRN TEMP DEG C 53	VW STRN TEMP DEG C 54	VW STRN TEMP DEG C 46	VW STRN TEMP DEG C 45	VW STRN TEMP DEG C 48	VW STRN TEMP DEG C 47	VW STRN TEMP DEG C 49	VW STRN TEMP DEG C 50	VW STRN TEMP DEG C 51	VW STRN TEMP DEG C 52
L35	23:26:31	21.731	21.762	21.358	21.327	22.420	22.294	23.405	23.341	24.405	24.798
L35	23:27:04	21.731	21.731	21.358	21.327	22.420	22.263	23.437	23.341	24.405	24.798
L35	23:28:00	21.731	21.762	21.358	21.327	22.420	22.263	23.437	23.341	24.405	24.798
L35	23:30:00	21.731	21.731	21.358	21.327	22.420	22.263	23.405	23.341	24.373	24.765
L36	23:31:09	21.731	21.731	21.358	21.327	22.452	22.263	23.437	23.341	24.373	24.765
L36	23:31:49	21.731	21.731	21.358	21.327	22.420	22.263	23.405	23.341	24.373	24.765
L36	23:32:40	21.762	21.731	21.358	21.327	22.420	22.263	23.405	23.341	24.373	24.765
L36	23:34:40	21.731	21.731	21.358	21.327	22.420	22.263	23.405	23.341	24.373	24.765
L37	23:35:44	21.731	21.731	21.358	21.327	22.420	22.263	23.405	23.341	24.373	24.765
L37	23:36:14	21.731	21.731	21.358	21.327	22.420	22.263	23.405	23.341	24.405	24.765
L37A	23:37:13	21.731	21.731	21.358	21.327	22.420	22.263	23.405	23.341	24.373	24.765
L37A	23:38:13	21.731	21.731	21.358	21.327	22.420	22.263	23.405	23.341	24.373	24.798
L37B	23:39:16	21.731	21.731	21.358	21.327	22.420	22.263	23.405	23.341	24.373	24.765
L37B	23:41:16	21.731	21.762	21.327	21.327	22.420	22.294	23.405	23.341	24.373	24.765
U1	23:47:06	21.700	21.762	21.327	21.296	22.420	22.294	23.437	23.341	24.340	24.732
U2	23:52:12	21.700	21.700	21.327	21.296	22.389	22.263	23.405	23.341	24.340	24.732
U3	23:56:32	21.700	21.700	21.327	21.296	22.389	22.263	23.405	23.341	24.340	24.732
U4	00:00:09	21.668	21.700	21.327	21.296	22.389	22.232	23.405	23.341	24.340	24.732
U4A	00:03:07	21.668	21.700	21.327	21.265	22.389	22.263	23.405	23.341	24.308	24.732
U5	00:15:00	21.668	21.668	21.296	21.265	22.389	22.232	23.405	23.341	24.308	24.699
U5	00:30:00	21.637	21.637	21.265	21.265	22.389	22.232	23.405	23.309	24.275	24.699
U5	00:45:00	21.608	21.639	21.266	21.236	22.390	22.233	23.406	23.310	24.277	24.701
U5	01:00:00	21.614	21.614	21.241	21.241	22.365	22.208	23.380	23.316	24.251	24.708
U5	01:15:00	21.589	21.621	21.248	21.217	22.372	22.215	23.388	23.292	24.226	24.715
U5	01:30:00	21.559	21.590	21.218	21.187	22.373	22.216	23.389	23.293	24.194	24.716
U5	01:45:00	21.532	21.563	21.191	21.191	22.345	22.219	23.392	23.297	24.198	24.720
U5	02:00:00	21.532	21.532	21.191	21.160	22.345	22.188	23.361	23.297	24.166	24.557
U5	02:15:00	21.502	21.533	21.192	21.161	22.346	22.189	23.362	23.298	24.167	24.558
U5	02:30:00	21.502	21.533	21.161	21.130	22.347	22.189	23.362	23.266	24.135	24.526

Table F.20 continued

VIBRATING WIRE CALCULATED STRAIN

VLE 1 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 53	VW STRN MICRO STRAIN 54	VW STRN MICRO STRAIN 46	VW STRN MICRO STRAIN 45	VW STRN MICRO STRAIN 48	VW STRN MICRO STRAIN 47	VW STRN MICRO STRAIN 49	VW STRN MICRO STRAIN 50	VW STRN MICRO STRAIN 51	VW STRN MICRO STRAIN 52
L0	18:00:00	4.5	3.5	5.8	5.0	8.0	7.4	15.4	11.9	50.9	65.8
L0	18:15:00	5.4	2.0	5.6	4.9	7.9	7.4	15.4	12.0	50.6	65.7
L0	18:30:00	4.6	1.9	5.4	4.7	7.8	7.3	15.2	12.0	50.3	65.5
L0	18:45:00	4.1	1.7	5.1	4.6	7.7	7.3	15.2	12.0	50.2	65.4
L0	19:00:00	3.8	1.6	5.0	4.4	7.7	7.2	15.1	11.9	50.0	65.3
L0	19:15:00	3.2	1.7	5.0	4.4	7.6	7.2	15.1	12.0	50.0	65.2
L0	19:30:00	3.1	1.6	4.9	4.0	7.5	7.2	15.1	11.9	49.9	65.1
L0	19:45:00	3.1	1.3	4.7	3.8	7.4	7.1	15.0	11.8	49.8	65.0
L0	20:00:00	2.7	1.7	4.5	4.0	7.4	7.2	15.0	11.9	49.7	64.8
L0	20:15:00	2.7	1.1	4.3	3.7	7.4	7.1	14.8	11.9	49.6	64.7
L0	20:34:40	2.7	0.6	4.3	3.5	7.3	7.2	14.8	11.9	49.4	64.4
L0	20:36:55	2.5	0.5	4.2	3.4	7.3	7.1	14.7	11.9	49.4	64.4
L1	20:43:23	2.6	0.5	4.1	3.4	7.3	7.1	14.7	11.8	49.5	64.6
L1	20:43:51	2.6	0.5	4.1	3.4	7.3	7.1	14.6	11.8	49.5	64.6
L1	20:44:51	2.6	0.5	4.0	3.4	7.3	7.1	14.6	11.8	49.5	64.5
L1	20:46:50	2.4	0.5	4.0	3.4	7.3	7.1	14.7	11.8	49.5	64.5
L2	20:48:15	2.5	0.5	4.0	3.4	7.3	7.1	14.6	11.8	49.9	65.2
L2	20:48:46	2.5	0.5	4.0	3.4	7.3	7.0	14.6	11.8	49.9	65.2
L2	20:49:46	2.5	0.5	3.9	3.4	7.3	7.1	14.6	11.8	50.0	65.2
L2	20:51:44	2.4	0.5	3.9	3.4	7.3	7.1	14.6	11.8	49.9	65.1
L3	20:52:56	2.3	0.5	3.9	3.4	7.3	7.1	14.6	11.8	50.4	65.6
L3	20:53:27	2.4	0.5	3.9	3.3	7.3	7.1	14.6	11.8	50.3	65.6
L3	20:54:35	2.4	0.5	3.9	3.4	7.3	7.1	14.6	11.8	50.3	65.6
L3	20:56:26	2.4	0.5	3.9	3.4	7.3	7.1	14.6	11.8	50.4	65.6
L4	20:57:33	2.4	0.5	3.9	3.4	7.3	7.1	14.6	11.8	50.9	66.0
L4	20:58:08	2.4	0.5	3.8	3.4	7.3	7.1	14.6	11.8	50.9	66.0
L4	20:59:06	2.4	0.4	3.8	3.4	7.3	7.1	14.7	11.8	50.8	66.0
L4	21:01:04	2.2	0.5	3.8	3.4	7.3	7.1	14.7	11.8	50.8	66.0
L5	21:02:32	2.3	0.4	3.8	3.3	7.3	7.0	14.6	11.8	51.8	66.6
L5	21:03:02	2.2	0.4	3.8	3.4	7.2	7.0	14.6	11.8	51.8	66.6
L5	21:04:04	2.2	0.4	3.8	3.4	7.3	7.1	14.6	11.8	51.8	66.6
L5	21:06:02	2.1	0.4	3.7	3.4	7.2	7.1	14.6	11.8	51.9	66.5
L6	21:07:10	2.1	0.4	3.7	3.4	7.3	7.1	14.6	11.8	52.4	67.3
L6	21:07:40	2.2	0.4	3.7	3.3	7.3	7.0	14.6	11.8	52.4	67.3
L6	21:08:42	2.2	0.4	3.7	3.4	7.3	7.0	14.6	11.8	52.4	67.2
L6	21:10:41	2.1	0.4	3.7	3.3	7.2	7.1	14.6	11.8	52.5	67.2
L7	21:11:55	2.1	0.5	3.7	3.3	7.2	7.0	14.6	11.8	52.5	67.4
L7	21:12:24	2.0	0.6	3.7	3.4	7.2	7.1	14.6	11.8	52.6	67.5
L7	21:13:25	2.1	0.5	3.7	3.3	7.2	7.1	14.6	11.8	52.5	67.4
L7	21:15:24	2.0	0.4	3.6	3.3	7.2	7.1	14.6	11.8	52.5	67.5
L8	21:16:37	2.0	0.3	3.6	3.3	7.2	7.1	14.6	11.8	53.0	67.7
L8	21:17:24	2.0	0.3	3.6	3.3	7.2	7.1	14.6	11.8	53.0	67.7
L8	21:18:00	2.0	0.3	3.6	3.3	7.2	7.1	14.6	11.8	53.2	67.7
L8	21:20:01	2.0	0.3	3.6	3.3	7.2	7.0	14.6	11.8	53.0	67.7
L9	21:21:18	2.0	0.3	3.6	3.3	7.2	7.1	14.6	11.8	53.7	68.1
L9	21:21:44	1.9	0.3	3.6	3.3	7.2	7.1	14.6	11.8	53.5	68.2
L9	21:22:44	2.0	0.4	3.6	3.4	7.2	7.1	14.6	11.8	53.6	68.1
L9	21:24:46	1.9	0.3	3.6	3.4	7.2	7.1	14.6	11.8	53.6	68.1
L10	21:25:59	1.9	0.3	3.6	3.4	7.2	7.1	14.6	11.9	54.3	68.7

Table F.20 continued

VIBRATING WIRE CALCULATED STRAIN

VLE 1 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 53	VW STRN MICRO STRAIN 54	VW STRN MICRO STRAIN 46	VW STRN MICRO STRAIN 45	VW STRN MICRO STRAIN 48	VW STRN MICRO STRAIN 47	VW STRN MICRO STRAIN 49	VW STRN MICRO STRAIN 50	VW STRN MICRO STRAIN 51	VW STRN MICRO STRAIN 52
L10	21:26:28	1.9	0.3	3.6	3.3	7.2	7.1	14.6	11.9	54.2	68.7
L10	21:27:28	1.9	0.3	3.6	3.4	7.2	7.1	14.6	11.8	54.3	68.7
L10	21:29:40	1.9	0.3	3.5	3.4	7.2	7.1	14.6	11.8	54.3	68.7
L11	21:30:58	1.9	0.3	3.5	3.3	7.3	7.1	14.7	11.9	55.4	69.6
L11	21:31:33	1.8	0.3	3.5	3.4	7.2	7.1	14.7	11.9	55.4	69.5
L11	21:32:26	1.8	0.3	3.5	3.3	7.2	7.0	14.7	11.9	55.4	69.5
L11	21:34:26	1.8	0.4	3.5	3.3	7.2	7.1	14.7	11.9	55.3	69.4
L12	21:35:30	1.8	0.3	3.5	3.4	7.3	7.1	14.9	12.1	57.2	71.2
L12	21:36:00	1.8	0.3	3.5	3.4	7.3	7.1	14.9	12.1	57.0	71.2
L12	21:37:00	1.8	0.3	3.5	3.3	7.3	7.1	14.9	12.1	57.2	71.3
L12	21:39:01	1.7	0.3	3.5	3.4	7.3	7.1	14.9	12.0	57.2	71.2
L13	21:40:10	1.8	0.4	3.5	3.4	7.4	7.2	15.2	12.2	59.4	72.4
L13	21:40:56	1.8	0.4	3.5	3.4	7.4	7.2	15.1	12.2	59.3	72.5
L13	21:41:42	1.7	0.3	3.5	3.4	7.3	7.2	15.2	12.1	59.2	72.4
L13	21:43:36	1.8	0.3	3.5	3.4	7.4	7.1	15.1	12.2	59.3	72.4
L14	21:44:44	1.8	0.4	3.6	3.4	7.5	7.3	16.2	12.3	62.0	74.1
L14	21:45:15	1.8	0.3	3.6	3.4	7.5	7.2	16.3	12.3	62.1	74.2
L14	21:46:15	1.7	0.3	3.6	3.4	7.5	7.3	15.5	12.3	62.1	74.3
L14	21:48:15	1.7	0.3	3.6	3.5	7.4	7.3	15.5	12.3	62.1	74.3
L15	21:49:35	1.8	0.3	3.7	3.4	7.7	7.4	15.5	12.6	64.5	77.3
L15	21:50:06	1.8	0.3	3.7	3.4	7.6	7.3	15.5	12.6	64.6	77.2
L15	21:51:03	1.8	0.3	3.7	3.4	7.6	7.4	15.5	12.6	64.6	77.3
L15	21:53:05	1.7	0.3	3.7	3.4	7.7	7.4	15.5	12.6	64.6	77.2
L16	21:54:51	1.7	0.3	3.9	3.5	8.0	7.8	15.0	13.2	68.5	78.5
L16	21:55:23	1.7	0.3	3.9	3.5	8.0	7.8	15.0	13.3	68.7	78.7
L16	21:56:21	1.8	0.5	3.9	3.5	8.0	7.8	15.0	13.2	68.6	78.7
L16	21:58:21	1.8	0.4	3.9	3.5	8.0	7.8	15.1	13.4	68.9	78.5
L17	22:00:02	1.8	0.4	4.3	3.7	8.5	8.4	16.7	14.7	74.9	80.7
L17	22:00:39	1.8	0.4	4.3	3.8	8.6	8.5	16.8	14.7	75.0	80.8
L17	22:01:32	1.8	0.5	4.3	3.7	8.6	8.5	16.8	14.7	75.0	80.7
L17	22:03:34	1.8	0.5	4.2	3.8	8.6	8.5	16.9	14.7	75.2	80.6
L18	22:04:58	1.8	0.5	4.7	4.1	9.4	9.3	18.8	16.1	81.1	87.1
L18	22:05:25	1.8	0.6	4.8	4.2	9.5	9.2	18.7	16.2	81.1	87.2
L18	22:06:21	1.9	0.6	4.8	4.2	9.5	9.3	19.1	16.4	81.5	87.7
L18	22:08:20	1.7	0.7	4.7	4.2	9.6	9.4	19.2	16.7	81.4	87.7
L19	22:09:31	1.8	0.9	5.1	4.6	10.4	9.8	21.9	17.9	87.5	93.6
L19	22:10:02	1.8	0.9	5.1	4.5	10.3	9.9	22.2	17.9	87.7	93.9
L19	22:11:04	1.7	0.9	5.1	4.5	10.3	9.9	22.5	18.1	87.7	94.0
L19	22:13:02	1.6	0.9	5.0	4.4	10.4	9.9	22.8	18.2	87.7	94.0
L20	22:14:33	1.7	1.3	5.3	4.7	10.4	10.3	21.0	19.7	94.1	100.0
L20	22:15:04	1.7	1.3	5.3	4.7	10.4	10.2	21.2	19.7	94.1	100.2
L20	22:16:04	1.7	1.3	5.2	4.5	10.4	10.2	21.3	19.7	94.1	100.2
L20	22:18:03	1.7	1.2	5.2	4.5	10.4	10.3	21.5	19.8	94.4	101.0
L21	22:19:25	1.7	1.4	5.4	4.6	10.4	10.6	24.1	21.1	99.9	107.2
L21	22:19:54	1.7	1.4	5.5	4.6	10.5	10.6	24.1	21.3	100.3	107.3
L21	22:20:59	1.6	1.4	5.4	4.5	10.4	10.5	24.2	21.4	100.3	107.3
L21	22:22:57	1.6	1.3	5.4	4.4	10.4	10.5	24.3	21.5	100.7	107.9
L22	22:24:08	1.6	1.3	5.4	4.4	10.4	10.7	26.0	22.1	104.4	110.9
L22	22:24:39	1.7	1.2	5.4	4.3	10.4	10.7	26.3	22.2	104.7	110.9

Table F.20 continued

VIBRATING WIRE CALCULATED STRAIN

VLE 1 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 53	VW STRN MICRO STRAIN 54	VW STRN MICRO STRAIN 46	VW STRN MICRO STRAIN 45	VW STRN MICRO STRAIN 48	VW STRN MICRO STRAIN 47	VW STRN MICRO STRAIN 49	VW STRN MICRO STRAIN 50	VW STRN MICRO STRAIN 51	VW STRN MICRO STRAIN 52
L22	22:25:38	1.7	1.2	5.4	4.3	10.4	10.6	26.2	22.2	104.7	110.9
L22	22:27:43	1.6	1.0	5.4	4.1	10.5	10.6	26.4	22.2	105.1	111.3
L23	22:29:03	1.6	1.1	5.4	4.2	10.5	10.7	25.7	22.7	107.5	114.4
L23	22:29:38	1.6	1.1	5.4	4.2	10.4	10.8	25.9	22.7	107.5	114.4
L23	22:30:37	1.6	1.0	5.4	4.1	10.5	10.7	26.0	22.8	107.7	114.5
L23	22:32:30	1.5	1.0	5.4	4.0	10.5	10.7	26.2	22.8	108.0	114.5
L24	22:33:37	1.6	1.0	5.4	4.2	10.4	10.9	25.6	23.4	111.2	118.0
L24	22:35:10	1.5	1.0	5.4	4.1	10.4	10.8	25.9	23.5	111.5	118.2
L24A	22:38:42	1.5	0.9	5.3	4.0	10.4	10.8	25.7	23.5	111.5	118.5
L25	22:39:48	1.6	0.9	5.4	4.1	10.5	10.9	26.5	24.2	114.8	122.5
L25	22:40:18	1.6	0.8	5.3	4.1	10.5	10.9	26.7	24.1	115.2	124.0
L25	22:41:19	1.6	0.8	5.3	4.0	10.3	10.9	26.8	24.0	115.2	123.3
L25	22:43:18	1.5	0.8	5.2	4.0	10.3	10.9	27.1	24.1	115.8	122.4
L26	22:44:41	1.5	0.8	5.3	4.0	10.4	11.0	28.3	24.2	117.9	125.5
L26	22:45:18	1.5	0.8	5.2	4.0	10.4	11.0	28.6	24.2	118.0	125.6
L26	22:46:12	1.5	0.8	5.2	4.0	10.4	10.9	28.5	24.2	117.8	125.5
L26	22:48:10	1.5	0.7	5.2	3.9	10.4	10.9	28.9	24.2	118.0	125.8
L27	22:49:18	1.5	0.8	5.2	4.0	10.4	11.1	30.9	24.6	121.7	129.1
L27	22:49:46	1.5	0.8	5.2	4.0	10.4	11.1	31.1	24.7	121.8	129.2
L27	22:50:46	1.5	0.8	5.2	4.0	10.4	11.1	31.3	24.7	121.7	129.6
L27	22:52:50	1.4	0.7	5.1	3.9	10.4	11.0	31.4	24.7	121.8	129.8
L28	22:54:02	1.5	0.7	5.1	4.0	10.4	11.1	32.5	25.2	123.9	132.2
L28	22:54:32	1.5	0.7	5.1	4.0	10.5	11.1	32.6	25.1	123.9	132.2
L28	22:55:29	1.4	0.7	5.1	4.0	10.3	11.1	30.2	25.0	123.8	132.2
L28	22:57:29	1.5	0.7	5.1	4.0	10.3	11.0	30.0	25.2	124.0	132.3
L29	22:58:47	1.4	0.6	5.0	4.0	10.2	11.1	30.4	25.7	126.0	135.1
L29	22:59:15	1.4	0.6	5.0	4.0	10.4	11.2	30.5	25.7	126.0	135.5
L29	23:00:18	1.4	0.7	5.0	4.0	10.2	11.1	30.6	25.8	126.1	135.3
L29	23:02:16	1.4	0.6	4.9	3.9	10.4	11.1	30.6	25.8	126.2	135.6
L30	23:03:24	1.4	0.6	5.0	4.0	10.4	11.2	31.7	26.2	127.0	136.5
L30	23:04:10	1.4	0.6	5.0	4.0	10.4	11.2	32.0	26.3	127.5	137.0
L30	23:04:50	1.4	0.7	4.9	4.0	10.4	11.2	32.1	26.2	127.5	137.0
L30	23:06:50	1.3	0.6	4.9	3.9	10.4	11.1	32.3	26.3	127.9	137.2
L31	23:08:05	1.4	0.6	4.9	4.0	10.3	11.3	32.7	26.5	130.5	139.7
L31	23:08:47	1.4	0.7	4.9	4.0	10.3	11.2	32.7	26.5	130.7	139.7
L31	23:09:34	1.3	0.7	4.9	3.9	10.2	11.2	32.8	26.6	130.9	140.2
L31	23:11:35	1.4	0.7	4.8	3.9	10.2	11.2	32.8	26.5	130.9	140.3
L32	23:12:38	1.4	0.6	4.9	4.0	10.2	11.3	33.1	26.7	132.8	142.0
L32	23:13:19	1.3	0.6	4.8	4.0	10.1	11.3	33.1	26.7	132.7	142.0
L32	23:14:10	1.2	0.6	4.8	4.0	10.2	11.2	33.0	26.6	132.4	141.6
L32	23:16:09	1.3	0.6	4.8	3.9	10.1	11.3	33.2	26.7	132.7	142.2
L33	23:17:23	1.2	0.6	4.8	4.0	10.2	11.4	34.3	27.0	134.3	144.3
L33	23:17:52	1.2	0.6	4.8	4.0	10.1	11.4	34.2	27.1	134.3	144.2
L33	23:18:50	1.2	0.6	4.7	3.9	10.1	11.3	34.1	27.2	134.6	144.5
L33	23:20:50	1.2	0.5	4.8	4.0	10.2	11.3	33.6	27.3	134.1	144.0
L34	23:21:50	1.2	0.6	4.8	4.1	10.2	11.5	35.0	29.0	137.2	147.0
L34	23:22:20	1.3	0.7	4.9	4.1	10.4	11.6	35.8	29.2	136.9	146.7
L34	23:23:23	1.1	0.6	4.8	4.1	10.3	11.6	36.2	29.1	136.4	147.5
L34	23:25:22	1.1	0.6	4.8	4.1	10.2	11.5	36.0	29.1	136.6	148.5

Table F.20 continued

VIBRATING WIRE CALCULATED STRAIN

VLE 1 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 53	VW STRN MICRO STRAIN 54	VW STRN MICRO STRAIN 46	VW STRN MICRO STRAIN 45	VW STRN MICRO STRAIN 48	VW STRN MICRO STRAIN 47	VW STRN MICRO STRAIN 49	VW STRN MICRO STRAIN 50	VW STRN MICRO STRAIN 51	VW STRN MICRO STRAIN 52
L35	23:26:31	1.1	0.6	4.9	4.1	10.3	11.7	36.8	29.8	138.9	151.2
L35	23:27:04	1.2	0.7	4.9	4.1	10.4	11.7	36.9	30.0	139.4	152.0
L35	23:28:00	1.1	0.6	4.8	4.0	10.3	11.6	36.5	29.5	139.2	152.0
L35	23:30:00	1.1	0.6	4.8	4.0	10.5	11.6	36.5	29.6	139.7	153.0
L36	23:31:09	1.2	0.7	5.0	4.2	10.3	11.8	36.6	29.8	142.2	156.5
L36	23:31:49	1.2	0.6	4.9	4.0	10.5	11.8	36.4	29.7	142.7	157.0
L36	23:32:40	1.1	0.6	4.9	4.1	10.4	11.8	36.1	29.6	142.6	157.1
L36	23:34:40	1.0	0.6	4.9	4.0	10.3	11.8	35.4	29.3	142.9	157.2
L37	23:35:44	1.2	0.7	5.2	4.4	10.5	11.9	34.7	29.1	146.2	159.7
L37	23:36:14	1.1	0.7	5.2	4.5	10.4	12.1	33.5	29.0	147.1	160.9
L37A	23:37:13	1.4	0.9	5.6	5.6	11.6	13.1	32.3	29.0	134.9	147.6
L37A	23:38:13	1.3	0.9	5.6	5.9	11.9	13.4	33.2	11.9	55.6	62.7
L37B	23:39:16	1.4	0.7	4.4	5.1	9.3	9.8	18.4	16.8	68.9	77.1
L37B	23:41:16	1.3	0.7	4.2	5.0	9.1	9.8	18.3	16.6	68.8	76.5
U1	23:47:06	0.7	0.4	2.8	3.5	6.6	6.4	11.6	10.4	50.4	56.0
U2	23:52:12	0.2	-0.2	1.4	1.4	2.3	2.7	6.9	3.9	25.3	29.5
U3	23:56:32	0.2	-0.0	0.6	0.8	1.2	1.5	2.9	1.4	11.0	13.6
U4	00:00:09	0.0	-0.0	0.1	-0.0	0.0	0.0	0.0	-0.0	-0.0	0.1
U4A	00:03:07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U5	00:15:00	-0.4	0.1	-0.3	-0.1	-0.1	0.0	-0.1	-0.1	-0.1	-0.3
U5	00:30:00	-0.8	0.2	-0.5	-0.2	-0.2	-0.0	-0.1	-0.1	-0.4	-0.7
U5	00:45:00	-0.9	0.2	-0.7	-0.3	-0.3	-0.1	-0.1	-0.1	-1.0	-1.0
U5	01:00:00	-1.1	0.1	-0.8	-0.3	-0.3	-0.1	-0.1	-0.2	-2.0	-1.2
U5	01:15:00	-1.2	0.0	-0.9	-0.4	-0.3	-0.1	-0.0	-0.1	-2.4	-1.4
U5	01:30:00	-1.3	-0.1	-1.0	-0.4	-0.4	-0.1	-0.1	-0.1	-2.6	-1.5
U5	01:45:00	-1.4	-0.2	-1.0	-0.4	-0.3	-0.0	-0.0	-0.1	-2.7	-1.7
U5	02:00:00	-1.5	-0.3	-1.1	-0.4	-0.3	-0.0	-0.0	-0.1	-2.7	-1.6
U5	02:15:00	-1.6	-0.5	-1.2	-0.4	-0.3	0.0	-0.0	-0.1	-2.7	-1.8
U5	02:30:00	-1.6	-0.7	-1.2	-0.4	-0.3	0.0	-0.0	-0.0	-2.7	-1.9

Table F.20 continued

VIBRATING WIRE CALCULATED STRAIN (4 MINUTE READINGS)

VLE 1 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 53	VW STRN MICRO STRAIN 54	VW STRN MICRO STRAIN 46	VW STRN MICRO STRAIN 45	VW STRN MICRO STRAIN 48	VW STRN MICRO STRAIN 47	VW STRN MICRO STRAIN 49	VW STRN MICRO STRAIN 50	VW STRN MICRO STRAIN 51	VW STRN MICRO STRAIN 52
L0	20:36:55	2.5	0.5	4.2	3.4	7.3	7.1	14.7	11.9	49.4	64.4
L1	20:46:50	2.4	0.5	4.0	3.4	7.3	7.1	14.7	11.8	49.5	64.5
L2	20:51:44	2.4	0.5	3.9	3.4	7.3	7.1	14.6	11.8	49.9	65.1
L3	20:56:26	2.4	0.5	3.9	3.4	7.3	7.1	14.6	11.8	50.4	65.6
L4	21:01:04	2.2	0.5	3.8	3.4	7.3	7.1	14.7	11.8	50.8	66.0
L5	21:06:02	2.1	0.4	3.7	3.4	7.2	7.1	14.6	11.8	51.9	66.5
L6	21:10:41	2.1	0.4	3.7	3.3	7.2	7.1	14.6	11.8	52.5	67.2
L7	21:15:24	2.0	0.4	3.6	3.3	7.2	7.1	14.6	11.8	52.5	67.5
L8	21:20:01	2.0	0.3	3.6	3.3	7.2	7.0	14.6	11.8	53.0	67.7
L9	21:24:46	1.9	0.3	3.6	3.4	7.2	7.1	14.6	11.8	53.6	68.1
L10	21:29:40	1.9	0.3	3.5	3.4	7.2	7.1	14.6	11.8	54.3	68.7
L11	21:34:26	1.8	0.4	3.5	3.3	7.2	7.1	14.7	11.9	55.3	69.4
L12	21:39:01	1.7	0.3	3.5	3.4	7.3	7.1	14.9	12.0	57.2	71.2
L13	21:43:36	1.8	0.3	3.5	3.4	7.4	7.1	15.1	12.2	59.3	72.4
L14	21:48:15	1.7	0.3	3.6	3.5	7.4	7.3	15.5	12.3	62.1	74.3
L15	21:53:05	1.7	0.3	3.7	3.4	7.7	7.4	15.5	12.6	64.6	77.2
L16	21:58:21	1.8	0.4	3.9	3.5	8.0	7.8	15.1	13.4	68.9	78.5
L17	22:03:34	1.8	0.5	4.2	3.8	8.6	8.5	16.9	14.7	75.2	80.6
L18	22:08:20	1.7	0.7	4.7	4.2	9.6	9.4	19.2	16.7	81.4	87.7
L19	22:13:02	1.6	0.9	5.0	4.4	10.4	9.9	22.8	18.2	87.7	94.0
L20	22:18:03	1.7	1.2	5.2	4.5	10.4	10.3	21.5	19.8	94.4	101.0
L21	22:22:57	1.6	1.3	5.4	4.4	10.4	10.5	24.3	21.5	100.7	107.9
L22	22:27:43	1.6	1.0	5.4	4.1	10.5	10.6	26.4	22.2	105.1	111.3
L23	22:32:30	1.5	1.0	5.4	4.0	10.5	10.7	26.2	22.8	108.0	114.5
L24	22:35:10	1.5	1.0	5.4	4.1	10.4	10.8	25.9	23.5	111.5	118.2
L24A	22:38:42	1.5	0.9	5.3	4.0	10.4	10.8	25.7	23.5	111.5	118.5
L25	22:43:18	1.5	0.8	5.2	4.0	10.3	10.9	27.1	24.1	115.8	122.4
L26	22:48:10	1.5	0.7	5.2	3.9	10.4	10.9	28.9	24.2	118.0	125.8
L27	22:52:50	1.4	0.7	5.1	3.9	10.4	11.0	31.4	24.7	121.8	129.8
L28	22:57:29	1.5	0.7	5.1	4.0	10.3	11.0	30.0	25.2	124.0	132.3
L29	23:02:16	1.4	0.6	4.9	3.9	10.4	11.1	30.6	25.8	126.2	135.6
L30	23:06:50	1.3	0.6	4.9	3.9	10.4	11.1	32.3	26.3	127.9	137.2
L31	23:11:35	1.4	0.7	4.8	3.9	10.2	11.2	32.8	26.5	130.9	140.3
L32	23:16:09	1.3	0.6	4.8	3.9	10.1	11.3	33.2	26.7	132.7	142.2
L33	23:20:50	1.2	0.5	4.8	4.0	10.2	11.3	33.6	27.3	134.1	144.0
L34	23:25:22	1.1	0.6	4.8	4.1	10.2	11.5	36.0	29.1	136.6	148.5
L35	23:30:00	1.1	0.6	4.8	4.0	10.5	11.6	36.5	29.6	139.7	153.0
L36	23:34:40	1.0	0.6	4.9	4.0	10.3	11.8	35.4	29.3	142.9	157.2
L37	23:36:14	1.1	0.7	5.2	4.5	10.4	12.1	33.5	29.0	147.1	160.9
L37A	23:38:13	1.3	0.9	5.6	5.9	11.9	13.4	33.2	11.9	55.6	62.7
L37B	23:41:16	1.3	0.7	4.2	5.0	9.1	9.8	18.3	16.6	68.8	76.5
U1	23:47:06	0.7	0.4	2.8	3.5	6.6	6.4	11.6	10.4	50.4	56.0
U2	23:52:12	0.2	-0.2	1.4	1.4	2.3	2.7	6.9	3.9	25.3	29.5
U3	23:56:32	0.2	-0.0	0.6	0.8	1.2	1.5	2.9	1.4	11.0	13.6
U4	00:00:09	0.0	-0.0	0.1	-0.0	0.0	0.0	0.0	-0.0	-0.0	0.1
U4A	00:03:07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table F.20 continued

AVERAGE STRAIN AT EACH GAGE LEVEL, INTEGRATED PILE COMPRESSION & COMPARISON WITH TELLTALE MEASUREMENT (4 MINUTE READINGS)

VLE 1 LOAD NUMBER	AVG VW MICRO STRAIN SURFACE	AVG VW MICRO STRAIN 53+54	AVG VW MICRO STRAIN 46+45	AVG VW MICRO STRAIN 48+47	AVG VW MICRO STRAIN 49+50	AVG VW MICRO STRAIN 51+52	EST'D. MICRO STRAIN CELL TOP	PILE COMPRESSION SG MSMT. INCHES	TT MSMT. INCHES	ABS.DIFF. SG-TT INCHES
L0	0.0	1.5	3.8	7.2	13.3	56.9	36.2	0.0061	0.0000	0.0061
L1	0.0	1.5	3.7	7.2	13.2	57.0	37.2	0.0061	0.0000	0.0061
L2	0.0	1.5	3.7	7.2	13.2	57.5	40.5	0.0061	-0.0000	0.0062
L3	0.0	1.5	3.7	7.2	13.2	58.0	44.3	0.0062	-0.0001	0.0063
L4	0.0	1.3	3.6	7.2	13.3	58.4	46.9	0.0062	-0.0004	0.0066
L5	0.0	1.3	3.6	7.2	13.2	59.2	50.3	0.0062	-0.0005	0.0067
L6	0.0	1.2	3.5	7.2	13.2	59.8	53.4	0.0063	-0.0005	0.0067
L7	0.0	1.2	3.5	7.2	13.2	60.0	56.5	0.0063	-0.0006	0.0069
L8	0.0	1.1	3.4	7.1	13.2	60.3	59.6	0.0063	-0.0006	0.0069
L9	0.0	1.1	3.5	7.1	13.2	60.8	62.7	0.0064	-0.0006	0.0070
L10	0.0	1.1	3.4	7.1	13.2	61.5	66.0	0.0064	-0.0006	0.0070
L11	0.0	1.1	3.4	7.1	13.3	62.4	69.3	0.0065	-0.0006	0.0071
L12	0.0	1.0	3.4	7.2	13.5	64.2	73.3	0.0066	-0.0007	0.0073
L13	0.0	1.0	3.4	7.2	13.6	65.9	77.1	0.0068	-0.0006	0.0074
L14	0.0	1.0	3.5	7.3	13.9	68.2	81.5	0.0070	-0.0006	0.0076
L15	0.0	1.0	3.6	7.5	14.1	70.9	85.8	0.0072	-0.0006	0.0078
L16	0.0	1.1	3.7	7.9	14.2	73.7	90.5	0.0075	-0.0004	0.0079
L17	0.0	1.1	4.0	8.6	15.8	77.9	95.9	0.0080	-0.0002	0.0082
L18	0.0	1.2	4.4	9.5	17.9	84.6	103.0	0.0088	0.0003	0.0084
L19	0.0	1.3	4.7	10.1	20.5	90.9	109.8	0.0096	0.0009	0.0087
L20	0.0	1.4	4.8	10.3	20.7	97.7	116.8	0.0101	0.0014	0.0087
L21	0.0	1.4	4.9	10.4	22.9	104.3	123.9	0.0108	0.0018	0.0090
L22	0.0	1.3	4.8	10.5	24.3	108.2	127.7	0.0112	0.0020	0.0092
L23	0.0	1.3	4.7	10.6	24.5	111.3	131.0	0.0114	0.0023	0.0091
L24	0.0	1.3	4.7	10.6	24.7	114.8	134.7	0.0117	0.0025	0.0091
L24A	0.0	1.2	4.7	10.6	24.6	115.0	134.8	0.0117	0.0025	0.0091
L25	0.0	1.2	4.6	10.6	25.6	119.1	138.8	0.0120	0.0028	0.0093
L26	0.0	1.1	4.6	10.6	26.6	121.9	141.9	0.0123	0.0029	0.0095
L27	0.0	1.1	4.5	10.7	28.1	125.8	145.8	0.0128	0.0032	0.0096
L28	0.0	1.1	4.5	10.7	27.6	128.1	148.3	0.0129	0.0034	0.0095
L29	0.0	1.0	4.4	10.7	28.2	130.9	150.9	0.0131	0.0034	0.0097
L30	0.0	1.0	4.4	10.8	29.3	132.6	152.8	0.0133	0.0036	0.0097
L31	0.0	1.1	4.4	10.7	29.6	135.6	155.5	0.0136	0.0036	0.0100
L32	0.0	1.0	4.3	10.7	29.9	137.4	157.7	0.0137	0.0037	0.0101
L33	0.0	0.9	4.4	10.7	30.4	139.1	159.6	0.0139	0.0039	0.0100
L34	0.0	0.8	4.4	10.9	32.6	142.5	163.2	0.0144	0.0044	0.0100
L35	0.0	0.8	4.4	11.0	33.0	146.4	167.2	0.0147	0.0046	0.0101
L36	0.0	0.8	4.5	11.0	32.3	150.1	170.8	0.0149	0.0047	0.0102
L37	0.0	0.9	4.8	11.2	31.3	154.0	174.8	0.0151	0.0050	0.0101
L37A	0.0	1.1	5.8	12.7	22.5	59.2	109.9	0.0079	0.0044	0.0035
L37B	0.0	1.0	4.6	9.5	17.4	72.6	86.9	0.0079	0.0006	0.0073
U1	0.0	0.6	3.2	6.5	11.0	53.2	64.8	0.0055	-0.0011	0.0066
U2	0.0	0.0	1.4	2.5	5.4	27.4	37.1	0.0027	-0.0031	0.0058
U3	0.0	0.1	0.7	1.3	2.1	12.3	17.3	0.0012	-0.0039	0.0051
U4	0.0	0.0	0.0	0.0	-0.0	0.0	0.0	0.0000	-0.0042	0.0042
U4A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0000	-0.0042	0.0042
ELEV. FT	3.57	-2.47	-6.96	-12.96	-19.46	-29.96	-30.46			

Table F.20 continued

VIBRATING WIRE CALCULATED AVERAGE LOADS (4 MINUTE READINGS)

LA = 10.50 ft ACA = 317.115 si
LB = 1.38 ft ACB = 313.155 si
B = 18.00 in ASA = 3.538 si
ES = 27500.0 ksi ASB = 7.498 si

VLE 1 LOAD NUMBER	AVG VW LOAD TONS SURFACE	AVG VW LOAD TONS 53+54	AVG VW LOAD TONS 46+45	AVG VW LOAD TONS 48+47	AVG VW LOAD TONS 49+50	AVG VW LOAD TONS 51+52	OSTERBERG LOAD TONS BOTTOM	INCR. PILE MODULUS KSI	CALC. PILE A MODULUS KSI	CALC. PILE B MODULUS KSI
L0	0.0	0.94	2.34	4.45	8.21	37.79	0.0		3808.5	4100.8
L1	0.0	0.91	2.31	4.45	8.17	37.85	1.7	117303.6	3808.5	4100.8
L2	0.0	0.91	2.26	4.44	8.15	38.20	7.1	63498.5	3808.5	4100.8
L3	0.0	0.90	2.26	4.44	8.16	38.52	13.4	81191.3	3808.5	4100.8
L4	0.0	0.82	2.23	4.43	8.18	38.80	17.7	64306.5	3808.5	4100.8
L5	0.0	0.78	2.20	4.42	8.15	39.33	23.1	41557.2	3808.5	4100.8
L6	0.0	0.77	2.17	4.42	8.14	39.74	28.0	49443.7	3808.5	4100.8
L7	0.0	0.73	2.15	4.42	8.14	39.85	33.5	193075.8	3808.5	4100.8
L8	0.0	0.71	2.12	4.39	8.14	40.08	38.7	91531.6	3808.5	4100.8
L9	0.0	0.70	2.13	4.40	8.13	40.41	43.8	64043.3	3808.5	4100.8
L10	0.0	0.66	2.12	4.39	8.15	40.83	49.1	51197.2	3808.5	4100.8
L11	0.0	0.66	2.09	4.40	8.19	41.45	54.1	33435.2	3808.5	4100.8
L12	0.0	0.65	2.10	4.43	8.31	42.64	59.2	17705.1	3808.5	4100.8
L13	0.0	0.65	2.11	4.47	8.42	43.75	64.3	18746.2	3808.5	4100.8
L14	0.0	0.62	2.16	4.53	8.58	45.33	69.6	13666.2	3808.5	4100.8
L15	0.0	0.62	2.20	4.64	8.68	47.10	74.4	11268.4	3808.5	4100.8
L16	0.0	0.67	2.29	4.87	8.79	48.96	79.7	11681.3	3808.5	4100.8
L17	0.0	0.69	2.46	5.28	9.75	51.76	84.7	7247.7	3808.5	4100.8
L18	0.0	0.74	2.74	5.86	11.07	56.17	89.8	4752.9	3808.5	4100.8
L19	0.0	0.80	2.91	6.24	12.63	60.38	94.9	4977.9	3808.5	4100.8
L20	0.0	0.89	2.98	6.38	12.75	64.89	99.8	4474.5	3808.5	4100.8
L21	0.0	0.88	3.00	6.44	14.14	69.26	105.1	4956.7	3808.5	4100.8
L22	0.0	0.81	2.94	6.51	15.01	71.87	107.5	3709.4	3808.5	4100.8
L23	0.0	0.77	2.90	6.54	15.11	73.93	110.0	5078.1	3808.5	4100.8
L24	0.0	0.77	2.92	6.54	15.22	76.30	112.6	4407.0	3808.5	4100.8
L24A	0.0	0.73	2.88	6.54	15.20	76.39	112.6		3808.5	4100.8
L25	0.0	0.71	2.85	6.54	15.79	79.11	115.1	3837.9	3808.5	4100.8
L26	0.0	0.68	2.81	6.57	16.38	80.96	117.6	5618.6	3808.5	4100.8
L27	0.0	0.66	2.80	6.60	17.31	83.58	120.1	3829.7	3808.5	4100.8
L28	0.0	0.66	2.80	6.59	17.02	85.12	121.9	4840.9	3808.5	4100.8
L29	0.0	0.62	2.73	6.61	17.40	86.96	123.4	3428.2	3808.5	4100.8
L30	0.0	0.59	2.72	6.63	18.08	88.08	125.1	6017.9	3808.5	4100.8
L31	0.0	0.65	2.69	6.60	18.29	90.07	126.5	2977.0	3808.5	4100.8
L32	0.0	0.59	2.68	6.59	18.47	91.31	128.3	6027.8	3808.5	4100.8
L33	0.0	0.54	2.70	6.61	18.76	92.38	130.0	6216.8	3808.5	4100.8
L34	0.0	0.52	2.74	6.71	20.09	94.69	132.4	4355.1	3808.5	4100.8
L35	0.0	0.52	2.72	6.82	20.38	97.23	135.2	4530.3	3808.5	4100.8
L36	0.0	0.50	2.76	6.82	19.96	99.71	137.5	3745.4	3808.5	4100.8
L37	0.0	0.55	2.99	6.94	19.28	102.32	140.2		3808.5	4100.8
L37A	0.0	0.70	3.55	7.81	13.90	39.31	132.0		3808.5	4100.8
L37B	0.0	0.61	2.85	5.84	10.76	48.25	74.3		3808.5	4100.8
U1	0.0	0.34	1.94	4.01	6.79	35.35	56.5		3808.5	4100.8
U2	0.0	0.01	0.85	1.55	3.35	18.19	35.9		3808.5	4100.8
U3	0.0	0.04	0.43	0.83	1.30	8.16	17.4		3808.5	4100.8
U4	0.0	0.00	0.02	0.02	-0.00	0.02	0.0		3808.5	4100.8
U4A	0.0	0.00	0.00	0.00	0.00	0.00	0.0		3808.5	4100.8
ELEV. FT	3.57	-2.47	-6.96	-12.96	-19.46	-29.96	-31.34	3584.4 KSI = CONCRETE MODULUS		

Table F.20 continued

INTEGRATED MOVEMENT AT VW STRAIN GAGE (4 MINUTE READINGS)

VLE 1 LOAD NUMBER	VW MOVEMENT INCHES SURFACE	VW MOVEMENT INCHES 53+54	VW MOVEMENT INCHES 46+45	VW MOVEMENT INCHES 48+47	VW MOVEMENT INCHES 49+50	VW MOVEMENT INCHES 51+52	VW MOVEMENT INCHES CELL TOP
L0	-0.0061	-0.0060	-0.0059	-0.0055	-0.0047	-0.0003	0.0000
L1	-0.0061	-0.0060	-0.0059	-0.0055	-0.0047	-0.0003	0.0000
L2	-0.0062	-0.0061	-0.0060	-0.0056	-0.0048	-0.0003	-0.0000
L3	-0.0063	-0.0062	-0.0061	-0.0057	-0.0049	-0.0004	-0.0001
L4	-0.0066	-0.0065	-0.0064	-0.0060	-0.0052	-0.0007	-0.0004
L5	-0.0067	-0.0067	-0.0065	-0.0061	-0.0053	-0.0008	-0.0005
L6	-0.0067	-0.0067	-0.0066	-0.0062	-0.0054	-0.0008	-0.0005
L7	-0.0069	-0.0068	-0.0067	-0.0063	-0.0055	-0.0009	-0.0006
L8	-0.0069	-0.0068	-0.0067	-0.0063	-0.0055	-0.0009	-0.0006
L9	-0.0070	-0.0069	-0.0068	-0.0064	-0.0056	-0.0010	-0.0006
L10	-0.0070	-0.0070	-0.0069	-0.0065	-0.0057	-0.0010	-0.0006
L11	-0.0071	-0.0071	-0.0069	-0.0066	-0.0058	-0.0010	-0.0006
L12	-0.0073	-0.0073	-0.0071	-0.0068	-0.0060	-0.0011	-0.0007
L13	-0.0074	-0.0074	-0.0072	-0.0069	-0.0060	-0.0010	-0.0006
L14	-0.0076	-0.0075	-0.0074	-0.0070	-0.0062	-0.0010	-0.0006
L15	-0.0078	-0.0077	-0.0076	-0.0072	-0.0064	-0.0010	-0.0006
L16	0.0021	0.0022	0.0023	0.0027	0.0036	0.0091	0.0096
L17	0.0018	0.0019	0.0020	0.0025	0.0034	0.0093	0.0099
L18	0.0066	0.0066	0.0068	0.0073	0.0083	0.0148	0.0154
L19	0.0113	0.0113	0.0115	0.0120	0.0132	0.0202	0.0209
L20	0.0113	0.0114	0.0115	0.0121	0.0133	0.0208	0.0214
L21	0.0110	0.0110	0.0112	0.0118	0.0131	0.0211	0.0218
L22	0.0258	0.0259	0.0260	0.0266	0.0279	0.0363	0.0370
L23	0.0259	0.0259	0.0261	0.0267	0.0280	0.0366	0.0373
L24	0.0309	0.0309	0.0311	0.0316	0.0330	0.0418	0.0425
L24A	0.0309	0.0309	0.0311	0.0316	0.0330	0.0418	0.0425
L25	0.0357	0.0357	0.0359	0.0365	0.0379	0.0470	0.0477
L26	0.0405	0.0406	0.0407	0.0413	0.0427	0.0521	0.0528
L27	0.0504	0.0505	0.0506	0.0512	0.0527	0.0624	0.0632
L28	0.0505	0.0506	0.0507	0.0513	0.0528	0.0626	0.0634
L29	0.0603	0.0604	0.0605	0.0611	0.0626	0.0726	0.0735
L30	0.0653	0.0653	0.0654	0.0660	0.0675	0.0777	0.0786
L31	0.0700	0.0701	0.0702	0.0707	0.0723	0.0827	0.0836
L32	0.0699	0.0700	0.0701	0.0706	0.0722	0.0828	0.0837
L33	0.0800	0.0800	0.0802	0.0807	0.0823	0.0930	0.0939
L34	0.1100	0.1100	0.1102	0.1107	0.1124	0.1234	0.1244
L35	0.1299	0.1299	0.1300	0.1306	0.1323	0.1436	0.1446
L36	0.1679	0.1679	0.1680	0.1686	0.1695	0.1740	0.1747
L37	0.2082	0.2082	0.2083	0.2089	0.2099	0.2143	0.2150
L37A	0.5365	0.5365	0.5367	0.5374	0.5387	0.5439	0.5444
L37B	0.7077	0.7077	0.7079	0.7084	0.7094	0.7151	0.7156
U1	0.7084	0.7084	0.7085	0.7088	0.7095	0.7135	0.7139
U2	0.7042	0.7042	0.7042	0.7044	0.7047	0.7068	0.7070
U3	0.6949	0.6949	0.6949	0.6950	0.6951	0.6960	0.6961
U4	0.6958	0.6958	0.6958	0.6958	0.6958	0.6958	0.6958
U4A	0.6958	0.6958	0.6958	0.6958	0.6958	0.6958	0.6958

Table F.20 continued

INTEGRATED MOVEMENT AT SEGMENT CL (4 MINUTE READINGS)

VLE 1 LOAD NUMBER CL.ELEV.	AVG VW MOVEMENT INCHES 0.55	AVG VW MOVEMENT INCHES -4.72	AVG VW MOVEMENT INCHES -9.96	AVG VW MOVEMENT INCHES -16.21	AVG VW MOVEMENT INCHES -24.71
L0	0.0000	0.0000	0.0000	0.0000	0.0000
L1	0.0000	0.0000	0.0000	0.0000	0.0000
L2	0.0000	0.0000	0.0000	0.0000	0.0000
L3	0.0000	0.0000	0.0000	0.0000	0.0000
L4	0.0000	0.0000	0.0000	0.0000	0.0000
L5	0.0000	0.0000	0.0000	0.0000	0.0000
L6	0.0000	0.0000	0.0000	0.0000	0.0000
L7	0.0000	0.0000	0.0000	0.0000	0.0000
L8	0.0000	0.0000	0.0000	0.0000	0.0000
L9	0.0000	0.0000	0.0000	0.0000	0.0000
L10	0.0000	0.0000	0.0000	0.0000	0.0000
L11	0.0000	0.0000	0.0000	0.0000	0.0000
L12	0.0000	0.0000	0.0000	0.0000	0.0000
L13	0.0000	0.0000	0.0000	0.0000	0.0000
L14	0.0000	0.0000	0.0000	0.0000	0.0000
L15	0.0000	0.0000	0.0000	0.0000	0.0000
L16	0.0021	0.0022	0.0025	0.0031	0.0063
L17	0.0019	0.0020	0.0022	0.0030	0.0064
L18	0.0066	0.0067	0.0070	0.0078	0.0116
L19	0.0113	0.0114	0.0118	0.0126	0.0167
L20	0.0114	0.0115	0.0118	0.0127	0.0170
L21	0.0110	0.0111	0.0115	0.0124	0.0171
L22	0.0258	0.0260	0.0263	0.0273	0.0321
L23	0.0259	0.0260	0.0264	0.0273	0.0323
L24	0.0309	0.0310	0.0314	0.0323	0.0374
L24A	0.0309	0.0310	0.0314	0.0323	0.0374
L25	0.0357	0.0358	0.0362	0.0372	0.0424
L26	0.0405	0.0406	0.0410	0.0420	0.0474
L27	0.0505	0.0506	0.0509	0.0519	0.0575
L28	0.0506	0.0506	0.0510	0.0520	0.0577
L29	0.0604	0.0604	0.0608	0.0618	0.0676
L30	0.0653	0.0654	0.0657	0.0668	0.0726
L31	0.0700	0.0701	0.0705	0.0715	0.0775
L32	0.0699	0.0700	0.0704	0.0714	0.0775
L33	0.0800	0.0801	0.0805	0.0815	0.0877
L34	0.1100	0.1101	0.1104	0.1116	0.1179
L35	0.1299	0.1300	0.1303	0.1314	0.1380
L36	0.1679	0.1680	0.1683	0.1691	0.1718
L37	0.2082	0.2083	0.2086	0.2094	0.2121
L37A	0.5365	0.5366	0.5370	0.5381	0.5413
L37B	0.7077	0.7078	0.7081	0.7089	0.7123
U1	0.7084	0.7084	0.7086	0.7092	0.7115
U2	0.7042	0.7042	0.7043	0.7045	0.7057
U3	0.6949	0.6949	0.6949	0.6950	0.6956
U4	0.6958	0.6958	0.6958	0.6958	0.6958
U4A	0.6958	0.6958	0.6958	0.6958	0.6958

Table F.20 continued

AVERAGE SEGMENT SHEAR STRESS (4 MINUTE READINGS)

VLE 1 LOAD NUMBER CL.ELEV.	AVG VW SHEAR TSF 0.55	AVG VW SHEAR TSF -4.72	AVG VW SHEAR TSF -9.96	AVG VW SHEAR TSF -16.21	AVG VW SHEAR TSF -24.71
L0	0.010	0.035	0.042	0.080	0.453
L1	0.009	0.035	0.043	0.079	0.455
L2	0.009	0.034	0.044	0.079	0.461
L3	0.008	0.034	0.044	0.079	0.465
L4	0.006	0.036	0.045	0.080	0.470
L5	0.005	0.036	0.045	0.079	0.478
L6	0.005	0.036	0.046	0.079	0.485
L7	0.004	0.036	0.047	0.079	0.487
L8	0.003	0.036	0.047	0.080	0.491
L9	0.003	0.037	0.047	0.079	0.496
L10	0.002	0.038	0.047	0.080	0.502
L11	0.002	0.037	0.048	0.081	0.511
L12	0.001	0.038	0.048	0.083	0.529
L13	0.001	0.038	0.049	0.085	0.544
L14	0.001	0.041	0.049	0.087	0.567
L15	0.001	0.042	0.051	0.087	0.593
L16	0.002	0.044	0.055	0.084	0.621
L17	0.003	0.049	0.062	0.098	0.650
L18	0.004	0.058	0.070	0.117	0.699
L19	0.006	0.062	0.076	0.147	0.741
L20	0.008	0.061	0.078	0.147	0.811
L21	0.008	0.062	0.079	0.181	0.858
L22	0.006	0.063	0.083	0.202	0.886
L23	0.005	0.063	0.085	0.203	0.917
L24	0.005	0.063	0.084	0.206	0.953
L24A	0.004	0.063	0.085	0.206	0.955
L25	0.003	0.063	0.086	0.221	0.989
L26	0.002	0.062	0.088	0.235	1.009
L27	0.002	0.063	0.089	0.258	1.036
L28	0.002	0.063	0.089	0.251	1.065
L29	0.001	0.062	0.091	0.260	1.088
L30	-0.000	0.063	0.092	0.277	1.095
L31	0.002	0.059	0.092	0.283	1.123
L32	-0.000	0.061	0.092	0.288	1.140
L33	-0.002	0.064	0.092	0.295	1.152
L34	-0.002	0.066	0.094	0.326	1.168
L35	-0.002	0.065	0.097	0.331	1.203
L36	-0.003	0.067	0.096	0.321	1.249
L37	-0.001	0.074	0.093	0.300	1.302
L37A	0.003	0.090	0.102	0.140	0.387
L37B	0.000	0.067	0.067	0.110	0.579
U1	-0.007	0.043	0.041	0.055	0.437
U2	-0.016	0.015	0.003	0.030	0.219
U3	-0.015	-0.002	-0.005	-0.004	0.092
U4	-0.016	-0.016	-0.016	-0.017	-0.016
U4A	-0.016	-0.016	-0.016	-0.016	-0.016

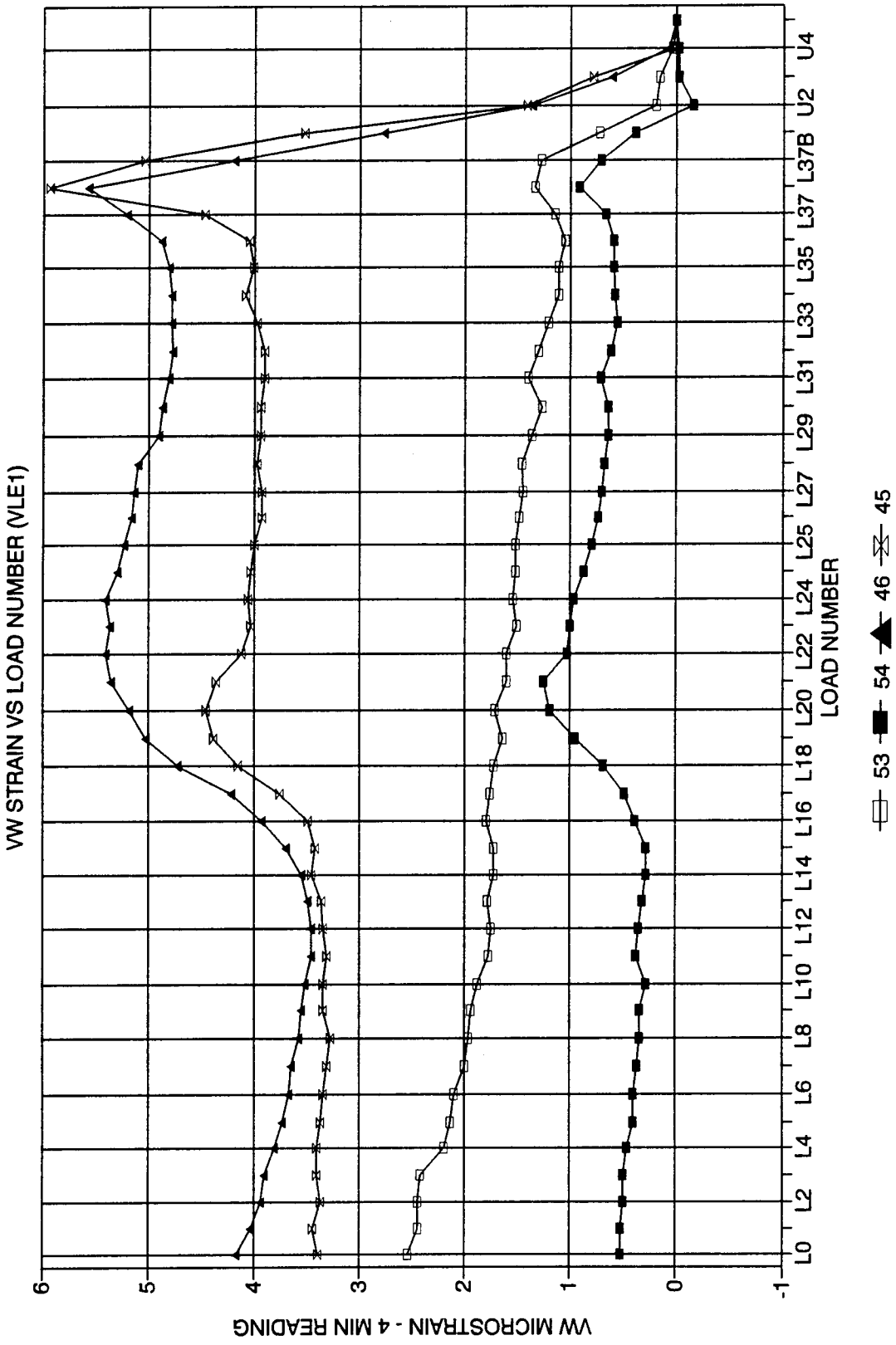

Figure F.101 Strain at Pile Top: Vilano East Load Test 1

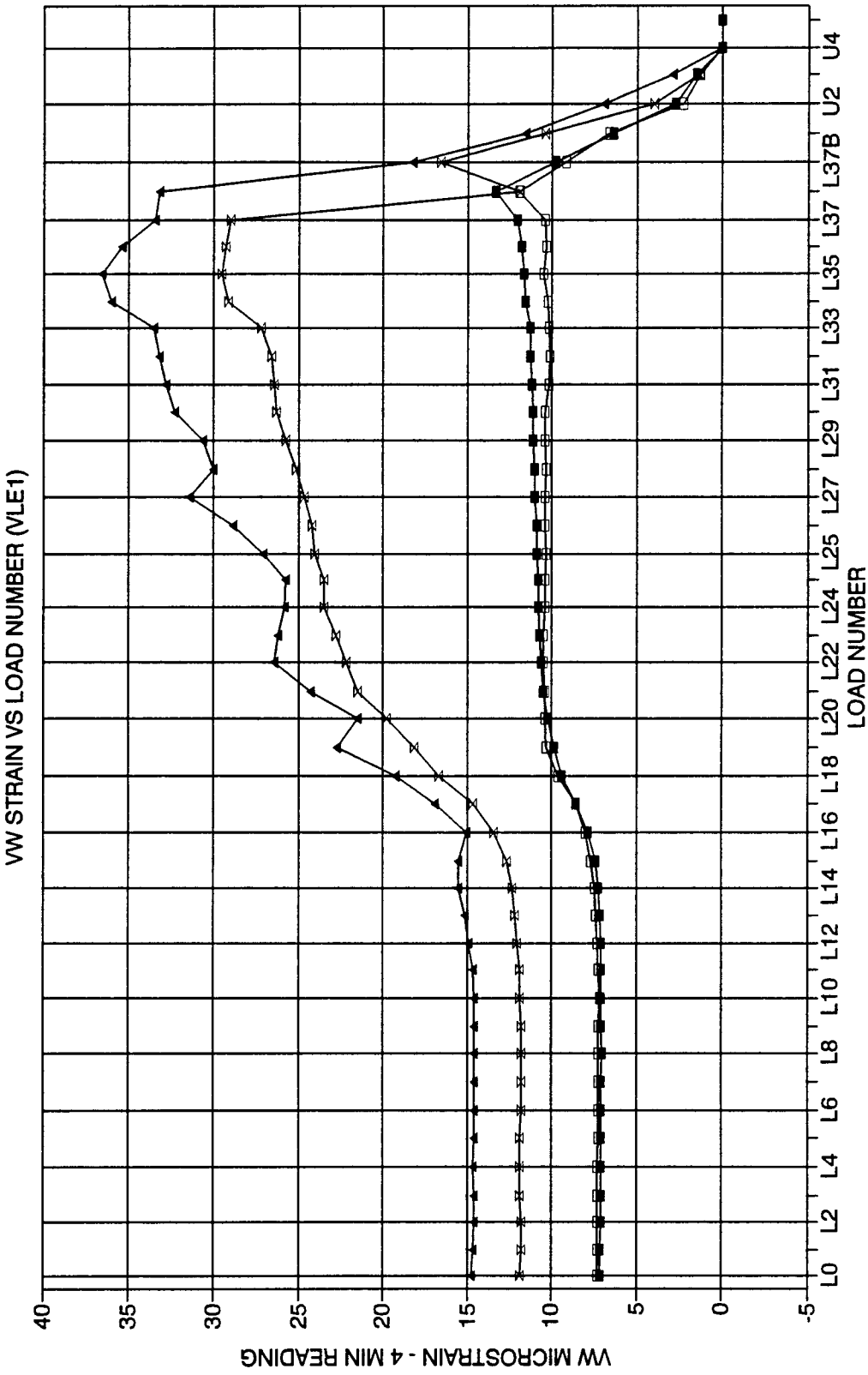

Figure F.102 Strain at Pile Middle: Vilano East Load Test 1

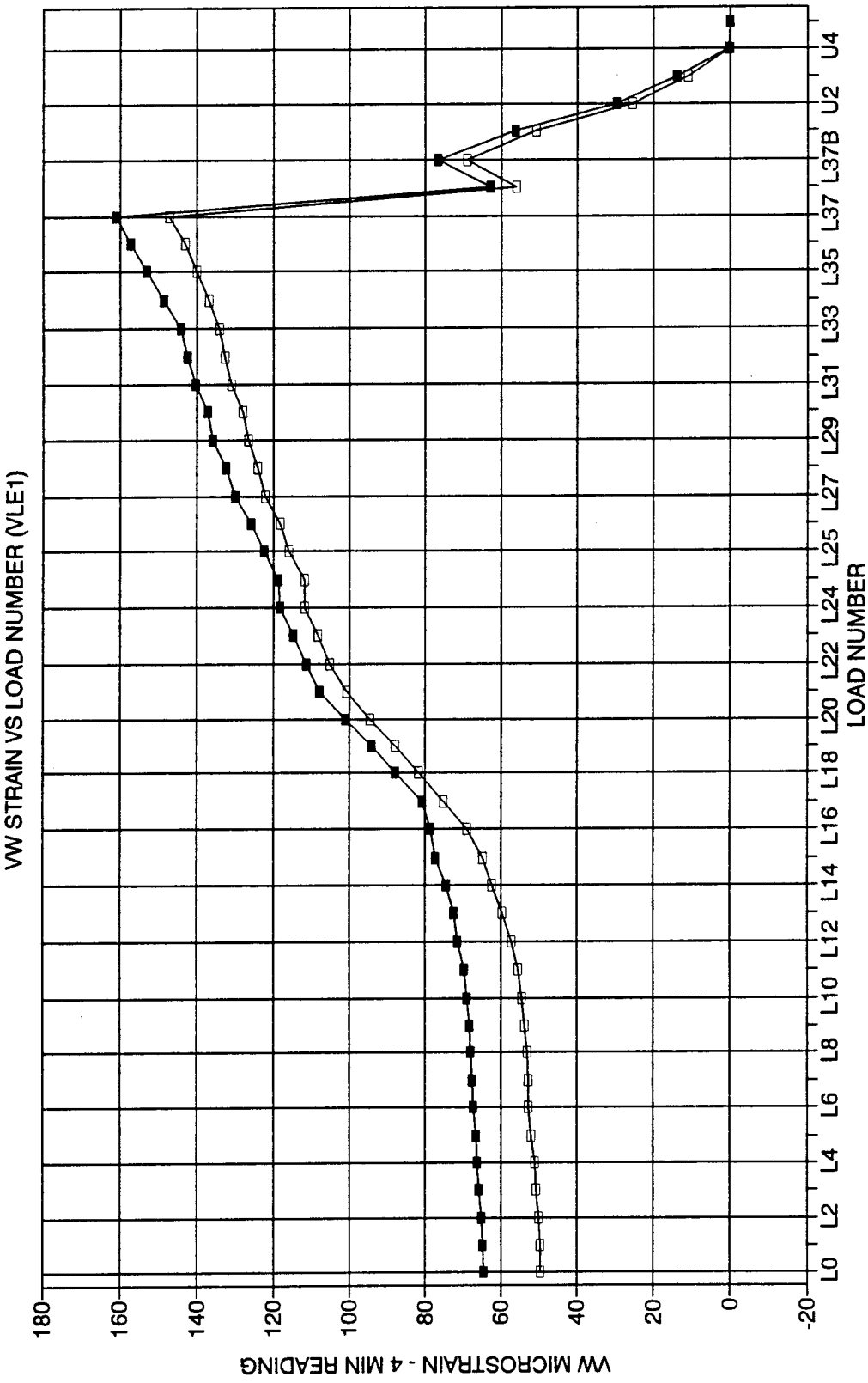

Figure F.103 Strain at Pile Bottom: Vilano East Load Test 1

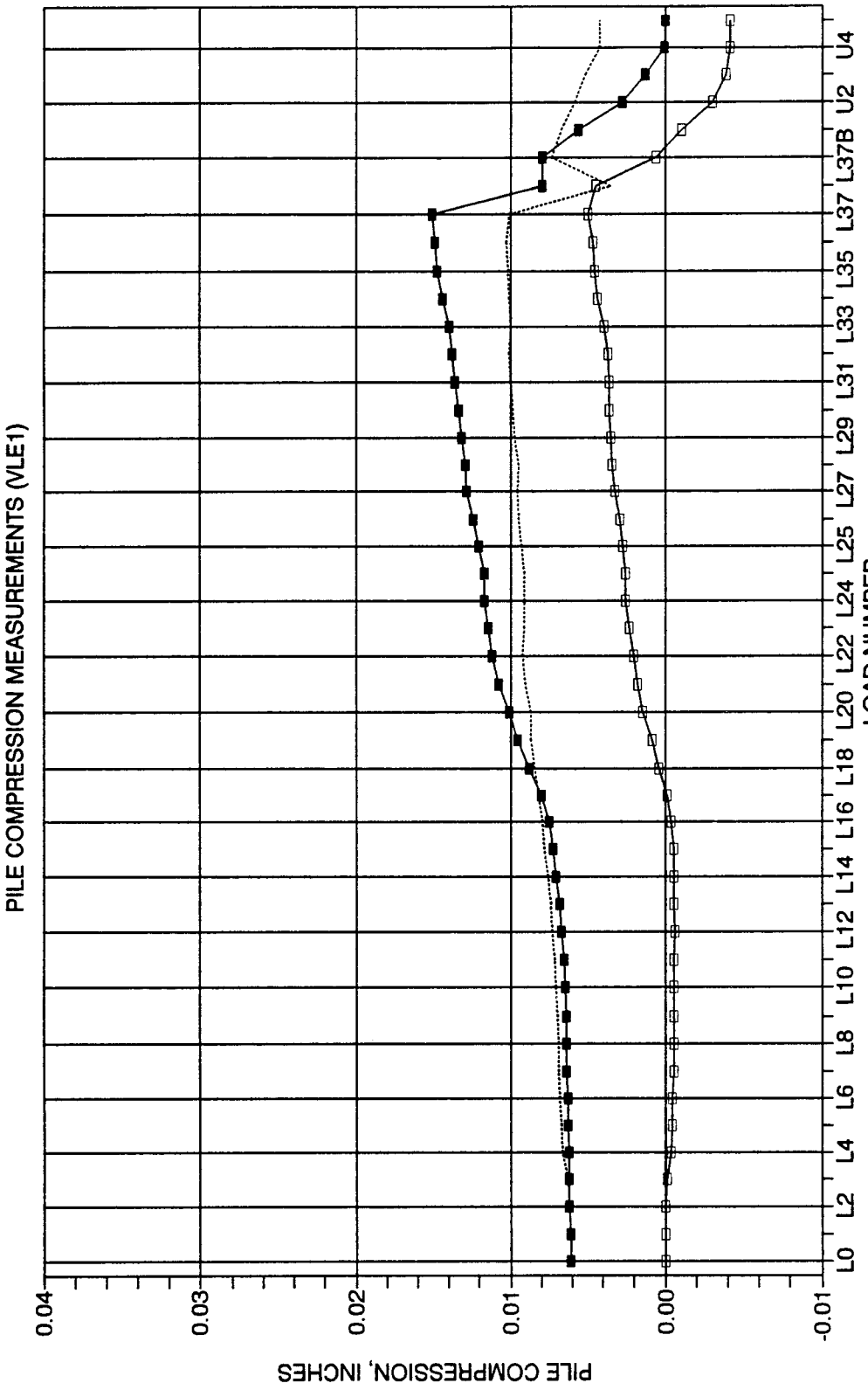

Figure F.104 Pile Compression Measurements: Vilano East Load Test 1

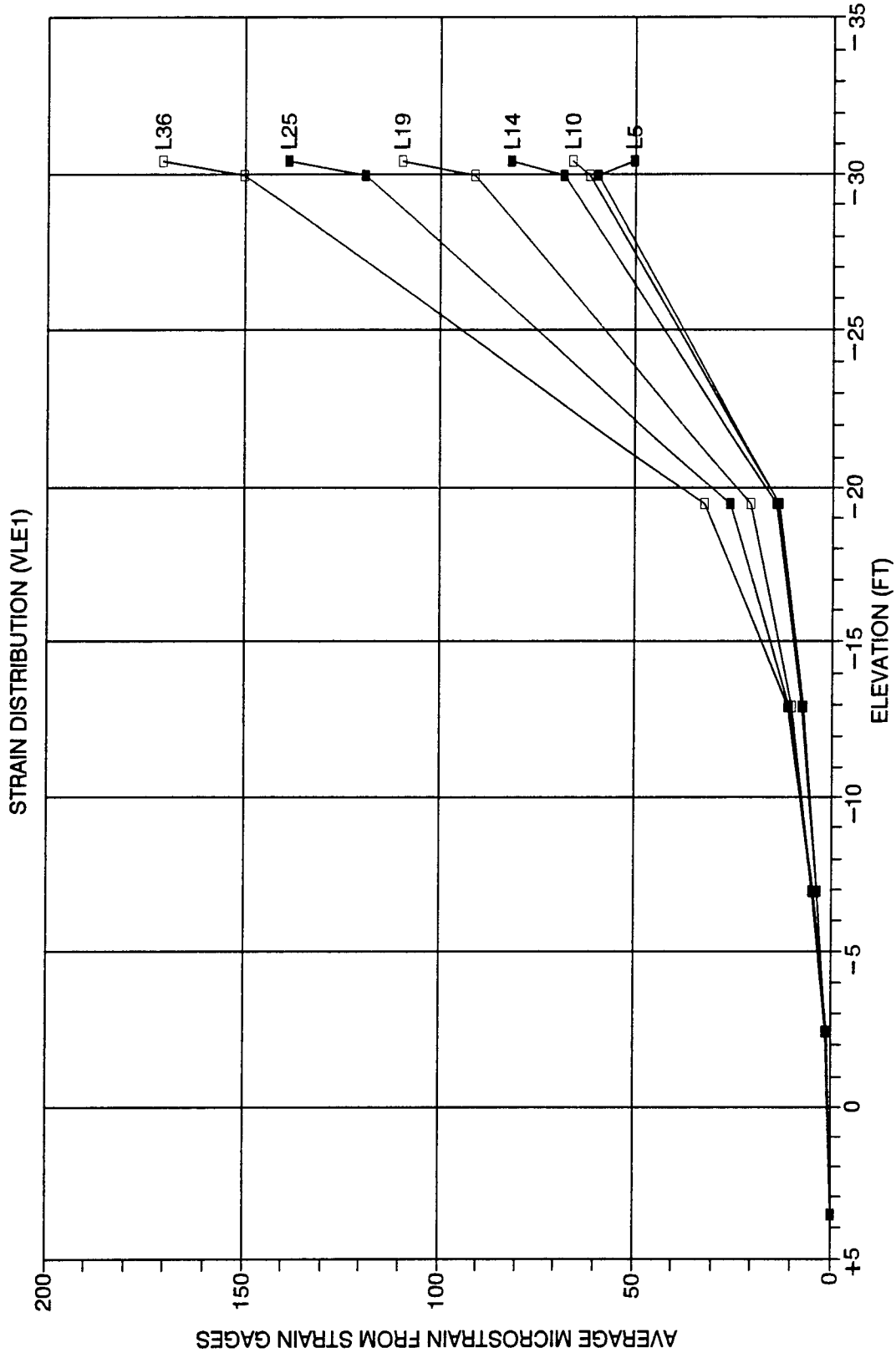

Figure F.105 Pile Strain Distribution: Vilano East Load Test 1

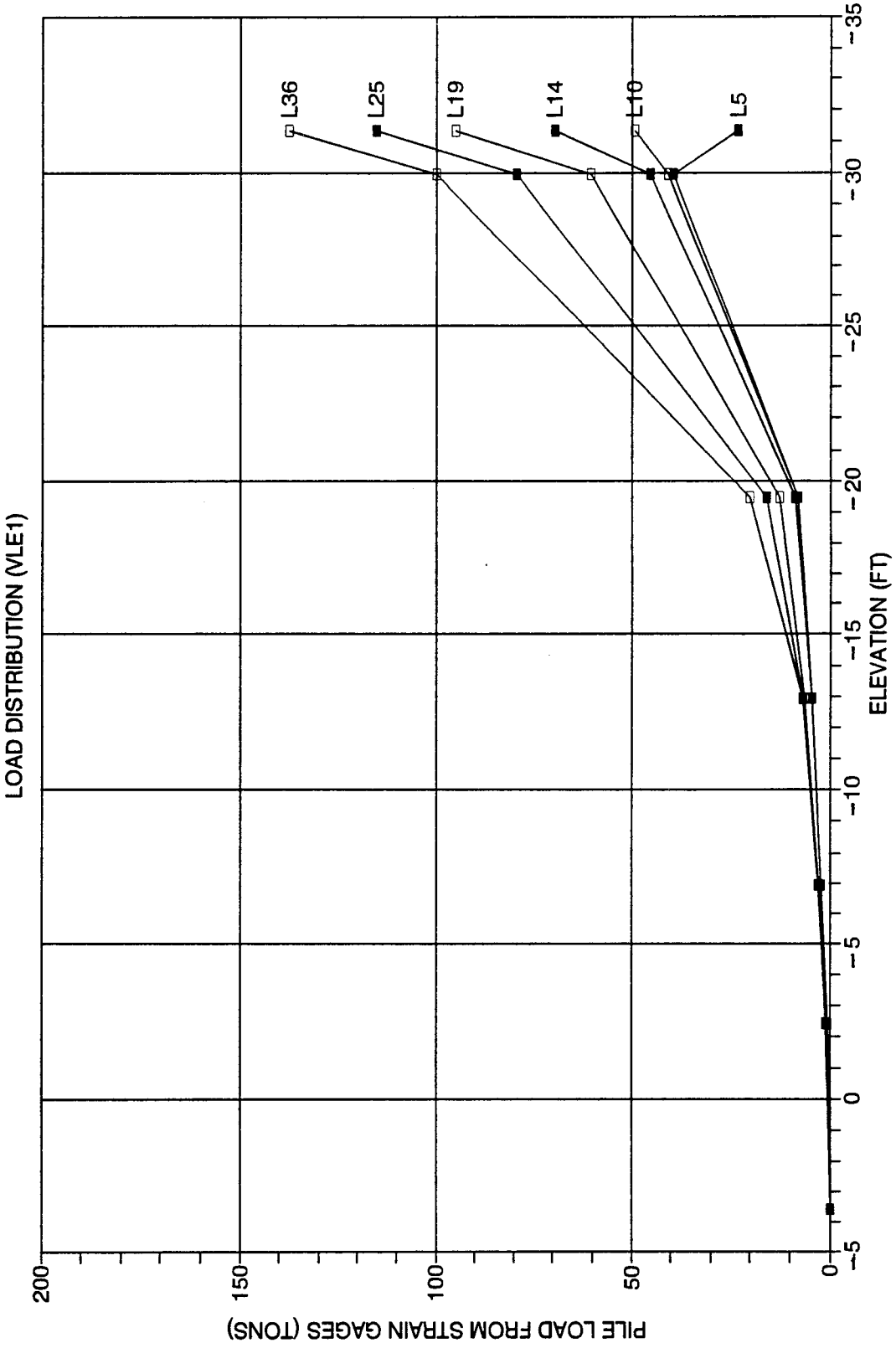

Figure F.106 Pile Load Distribution: Vilano East Load Test 1

Table F.21 Strain Analyses: Vilano East Load Test 2

VIBRATING WIRE INSTRUMENT READINGS - STRAIN

VLE 2 LOAD NUMBER	TIME	VW STRN FREQ^2 KHZ^2 53	VW STRN FREQ^2 KHZ^2 54	VW STRN FREQ^2 KHZ^2 46	VW STRN FREQ^2 KHZ^2 45	VW STRN FREQ^2 KHZ^2 48	VW STRN FREQ^2 KHZ^2 47	VW STRN FREQ^2 KHZ^2 49	VW STRN FREQ^2 KHZ^2 50	VW STRN FREQ^2 KHZ^2 51	VW STRN FREQ KHZ^2 52
L0	10:45:00	0.68536	0.68107	0.69390	0.62010	0.66621	0.64514	0.72086	0.63959	0.78079	0.72293
L0	11:00:00	0.68533	0.68119	0.69392	0.62008	0.66622	0.64512	0.72085	0.63955	0.78079	0.72292
L0	11:15:00	0.68532	0.68116	0.69390	0.62009	0.66621	0.64512	0.72085	0.63957	0.78081	0.72294
L0	11:18:21	0.68530	0.68114	0.69387	0.62009	0.66620	0.64512	0.72086	0.63957	0.78079	0.72295
L0	11:21:07	0.68530	0.68116	0.69390	0.62009	0.66621	0.64512	0.72085	0.63957	0.78081	0.72294
L1	11:22:32	0.68530	0.68117	0.69385	0.62005	0.66610	0.64491	0.72061	0.63938	0.77940	0.72109
L1	11:23:08	0.68530	0.68117	0.69382	0.62004	0.66610	0.64490	0.72058	0.63936	0.77935	0.72105
L1	11:24:00	0.68529	0.68116	0.69385	0.62003	0.66610	0.64490	0.72058	0.63937	0.77936	0.72106
L1	11:26:00	0.68530	0.68117	0.69385	0.62004	0.66610	0.64492	0.72060	0.63937	0.77934	0.72105
L2	11:27:47	0.68529	0.68113	0.69379	0.62001	0.66603	0.64478	0.72037	0.63918	0.77831	0.71981
L2	11:28:16	0.68529	0.68113	0.69379	0.62003	0.66602	0.64477	0.72040	0.63919	0.77831	0.71982
L2	11:29:17	0.68530	0.68110	0.69380	0.62001	0.66602	0.64476	0.72042	0.63920	0.77830	0.71981
L2	11:31:16	0.68529	0.68112	0.69377	0.62001	0.66601	0.64476	0.72040	0.63920	0.77834	0.71981
L3	11:32:40	0.68527	0.68111	0.69370	0.61998	0.66581	0.64459	0.72010	0.63880	0.77639	0.71775
L3	11:33:08	0.68527	0.68110	0.69371	0.61998	0.66579	0.64459	0.72012	0.63880	0.77632	0.71774
L3	11:34:09	0.68527	0.68113	0.69370	0.61998	0.66582	0.64460	0.72011	0.63880	0.77628	0.71773
L3	11:36:07	0.68527	0.68111	0.69372	0.61998	0.66582	0.64461	0.72012	0.63881	0.77626	0.71774
L4	11:37:47	0.68525	0.68109	0.69362	0.61994	0.66529	0.64436	0.71946	0.63846	0.77394	0.71551
L4	11:38:18	0.68525	0.68107	0.69361	0.61994	0.66529	0.64437	0.71943	0.63844	0.77392	0.71550
L4	11:39:18	0.68527	0.68110	0.69363	0.61994	0.66534	0.64437	0.71945	0.63846	0.77391	0.71548
L4	11:41:16	0.68525	0.68106	0.69364	0.61995	0.66534	0.64438	0.71946	0.63846	0.77388	0.71546
L5	11:42:54	0.68523	0.68101	0.69345	0.61978	0.66537	0.64399	0.71869	0.63758	0.77038	0.71190
L5	11:43:25	0.68523	0.68102	0.69346	0.61978	0.66540	0.64398	0.71867	0.63759	0.77035	0.71188
L5	11:44:26	0.68526	0.68100	0.69347	0.61978	0.66540	0.64400	0.71867	0.63758	0.77031	0.71183
L5	11:46:26	0.68526	0.68102	0.69348	0.61978	0.66538	0.64401	0.71868	0.63760	0.77030	0.71184
L6	11:48:15	0.68522	0.68095	0.69332	0.61947	0.66490	0.64367	0.71714	0.63654	0.76616	0.70778
L6	11:48:45	0.68522	0.68095	0.69333	0.61948	0.66492	0.64367	0.71715	0.63655	0.76616	0.70779
L6	11:49:46	0.68524	0.68094	0.69334	0.61949	0.66491	0.64367	0.71718	0.63655	0.76611	0.70772
L6	11:51:44	0.68525	0.68092	0.69334	0.61948	0.66493	0.64368	0.71718	0.63652	0.76607	0.70766
L7	11:53:26	0.68524	0.68088	0.69323	0.61931	0.66452	0.64332	0.71661	0.63570	0.76220	0.70367
L7	11:54:17	0.68526	0.68089	0.69326	0.61932	0.66456	0.64335	0.71660	0.63570	0.76213	0.70367
L7	11:54:54	0.68526	0.68090	0.69326	0.61934	0.66456	0.64337	0.71664	0.63571	0.76214	0.70361
L7	11:56:54	0.68527	0.68091	0.69328	0.61935	0.66458	0.64343	0.71664	0.63572	0.76204	0.70358
L8	11:58:36	0.68523	0.68086	0.69320	0.61927	0.66428	0.64308	0.71593	0.63484	0.75796	0.69952
L8	11:58:57	0.68526	0.68088	0.69322	0.61928	0.66428	0.64308	0.71592	0.63483	0.75799	0.69953
L8	11:59:53	0.68526	0.68088	0.69324	0.61930	0.66435	0.64311	0.71594	0.63486	0.75797	0.69951
L8	12:01:55	0.68528	0.68089	0.69326	0.61930	0.66436	0.64314	0.71595	0.63488	0.75795	0.69945
L9	12:03:35	0.68528	0.68087	0.69321	0.61925	0.66383	0.64298	0.71461	0.63408	0.75416	0.69537
L9	12:04:04	0.68525	0.68087	0.69322	0.61927	0.66396	0.64300	0.71479	0.63410	0.75414	0.69543
L9	12:05:04	0.68530	0.68086	0.69324	0.61928	0.66408	0.64301	0.71479	0.63410	0.75399	0.69522
L9	12:07:05	0.68528	0.68090	0.69325	0.61929	0.66420	0.64303	0.71481	0.63412	0.75391	0.69517
L10	12:08:31	0.68526	0.68087	0.69321	0.61926	0.66387	0.64293	0.71412	0.63336	0.75010	0.69120
L10	12:09:02	0.68527	0.68087	0.69322	0.61926	0.66374	0.64294	0.71414	0.63335	0.74994	0.69118

Table F.21 continued

VIBRATING WIRE INSTRUMENT READINGS - STRAIN

VLE 2 LOAD NUMBER	TIME	VW STRN FREQ^2 KHZ^2 53	VW STRN FREQ^2 KHZ^2 54	VW STRN FREQ^2 KHZ^2 46	VW STRN FREQ^2 KHZ^2 45	VW STRN FREQ^2 KHZ^2 48	VW STRN FREQ^2 KHZ^2 47	VW STRN FREQ^2 KHZ^2 49	VW STRN FREQ^2 KHZ^2 50	VW STRN FREQ^2 KHZ^2 51	VW STRN FREQ KHZ^2 52
L10	12:12:09	0.68529	0.68090	0.69326	0.61929	0.66383	0.64297	0.71415	0.63341	0.74983	0.69108
L10	12:13:31	0.68528	0.68087	0.69324	0.61926	0.66384	0.64289	0.71347	0.63275	0.74764	0.68895
L11	12:14:11	0.68527	0.68089	0.69324	0.61928	0.66380	0.64294	0.71355	0.63282	0.74774	0.68903
L11	12:15:03	0.68528	0.68087	0.69326	0.61928	0.66382	0.64294	0.71349	0.63281	0.74760	0.68891
L11	12:16:59	0.68531	0.68093	0.69328	0.61929	0.66391	0.64296	0.71353	0.63285	0.74753	0.68881
L12	12:18:28	0.68528	0.68088	0.69324	0.61927	0.66378	0.64290	0.71273	0.63262	0.74559	0.68706
L12	12:19:00	0.68530	0.68092	0.69326	0.61929	0.66382	0.64290	0.71274	0.63263	0.74570	0.68705
L12	12:19:56	0.68529	0.68092	0.69326	0.61928	0.66377	0.64292	0.71283	0.63265	0.74572	0.68701
L12	12:21:57	0.68528	0.68094	0.69328	0.61930	0.66387	0.64294	0.71278	0.63265	0.74572	0.68689
L13	12:23:16	0.68527	0.68092	0.69326	0.61928	0.66380	0.64286	0.71312	0.63216	0.74361	0.68487
L13	12:23:48	0.68530	0.68091	0.69327	0.61929	0.66381	0.64288	0.71317	0.63222	0.74361	0.68484
L13	12:24:50	0.68529	0.68094	0.69328	0.61928	0.66385	0.64290	0.71319	0.63223	0.74336	0.68465
L13	12:26:47	0.68530	0.68093	0.69330	0.61929	0.66379	0.64291	0.71315	0.63223	0.74323	0.68455
L14	12:28:09	0.68530	0.68093	0.69328	0.61927	0.66389	0.64284	0.71246	0.63202	0.74120	0.68281
L14	12:28:38	0.68531	0.68094	0.69328	0.61928	0.66374	0.64287	0.71247	0.63203	0.74112	0.68257
L14	12:29:40	0.68529	0.68093	0.69328	0.61928	0.66373	0.64288	0.71245	0.63203	0.74097	0.68254
L14	12:31:34	0.68528	0.68093	0.69329	0.61929	0.66384	0.64289	0.71244	0.63203	0.74088	0.68240
L15	12:32:54	0.68529	0.68094	0.69328	0.61928	0.66383	0.64286	0.71180	0.63172	0.73914	0.67988
L15	12:33:23	0.68529	0.68095	0.69329	0.61928	0.66376	0.64286	0.71156	0.63163	0.73918	0.67993
L15	12:34:22	0.68528	0.68095	0.69330	0.61929	0.66388	0.64288	0.71177	0.63169	0.73916	0.67993
L15	12:36:23	0.68529	0.68097	0.69330	0.61929	0.66389	0.64288	0.71177	0.63169	0.73910	0.68013
L16	12:37:55	0.68527	0.68097	0.69330	0.61928	0.66392	0.64283	0.71136	0.63128	0.73678	0.67813
L16	12:38:27	0.68527	0.68096	0.69329	0.61929	0.66397	0.64283	0.71135	0.63125	0.73669	0.67804
L16	12:39:26	0.68527	0.68097	0.69330	0.61929	0.66401	0.64285	0.71138	0.63128	0.73655	0.67793
L16	12:41:25	0.68526	0.68098	0.69333	0.61929	0.66410	0.64285	0.71140	0.63129	0.73660	0.67795
L17	12:42:56	0.68527	0.68099	0.69332	0.61928	0.66410	0.64279	0.71121	0.63097	0.73448	0.67614
L17	12:43:19	0.68529	0.68096	0.69332	0.61928	0.66423	0.64277	0.71119	0.63097	0.73449	0.67601
L17	12:44:20	0.68528	0.68102	0.69334	0.61929	0.66425	0.64282	0.71115	0.63095	0.73443	0.67601
L17	12:46:19	0.68526	0.68101	0.69334	0.61930	0.66422	0.64283	0.71116	0.63096	0.73437	0.67588
L18	12:47:55	0.68529	0.68100	0.69334	0.61929	0.66424	0.64278	0.71072	0.63076	0.73335	0.67428
L18	12:48:24	0.68528	0.68101	0.69335	0.61929	0.66431	0.64278	0.71068	0.63076	0.73328	0.67462
L18	12:49:25	0.68528	0.68103	0.69335	0.61929	0.66425	0.64277	0.71060	0.63074	0.73316	0.67470
L18	12:51:27	0.68528	0.68101	0.69336	0.61929	0.66425	0.64278	0.71049	0.63074	0.73308	0.67482
L19	12:52:40	0.68527	0.68103	0.69336	0.61929	0.66429	0.64278	0.70995	0.63069	0.73216	0.67367
L19	12:53:08	0.68530	0.68101	0.69336	0.61928	0.66428	0.64276	0.70996	0.63069	0.73198	0.67360
L19	12:54:04	0.68528	0.68101	0.69338	0.61929	0.66430	0.64276	0.70991	0.63069	0.73205	0.67352
L19	12:56:05	0.68530	0.68104	0.69338	0.61928	0.66435	0.64279	0.70990	0.63069	0.73197	0.67354
L20	12:57:33	0.68527	0.68102	0.69338	0.61927	0.66436	0.64275	0.71021	0.63060	0.73120	0.67271
L20	12:58:22	0.68528	0.68104	0.69339	0.61928	0.66439	0.64274	0.71028	0.63061	0.73104	0.67236
L20	12:59:04	0.68528	0.68103	0.69340	0.61927	0.66439	0.64277	0.71024	0.63059	0.73095	0.67234
L20	13:01:04	0.68527	0.68104	0.69340	0.61927	0.66437	0.64276	0.71026	0.63060	0.73096	0.67239
L21	13:02:46	0.68526	0.68102	0.69342	0.61927	0.66438	0.64273	0.70977	0.63047	0.72977	0.67157
L21	13:03:45	0.68526	0.68103	0.69342	0.61926	0.66442	0.64275	0.70965	0.63046	0.72989	0.67164

Table F.21 continued

VIBRATING WIRE INSTRUMENT READINGS - STRAIN

VLE 2 LOAD NUMBER	TIME	VW STRN FREQ^2 KHZ^2 53	VW STRN FREQ^2 KHZ^2 54	VW STRN FREQ^2 KHZ^2 46	VW STRN FREQ^2 KHZ^2 45	VW STRN FREQ^2 KHZ^2 48	VW STRN FREQ^2 KHZ^2 47	VW STRN FREQ^2 KHZ^2 49	VW STRN FREQ^2 KHZ^2 50	VW STRN FREQ^2 KHZ^2 51	VW STRN FREQ KHZ^2 52
L21	13:05:44	0.68528	0.68104	0.69342	0.61926	0.66441	0.64274	0.70961	0.63042	0.72957	0.67149
L22	13:07:11	0.68527	0.68101	0.69343	0.61922	0.66449	0.64264	0.70834	0.62996	0.72752	0.66940
L22	13:07:40	0.68525	0.68104	0.69348	0.61922	0.66452	0.64255	0.70820	0.63003	0.72750	0.66930
L22	13:08:39	0.68526	0.68107	0.69350	0.61923	0.66459	0.64253	0.70808	0.63025	0.72739	0.66907
L22	13:10:45	0.68528	0.68103	0.69353	0.61919	0.66465	0.64243	0.70784	0.63070	0.72721	0.66889
L23	13:12:14	0.68524	0.68103	0.69366	0.61902	0.66457	0.64219	0.70973	0.63209	0.73367	0.67504
L23	13:12:49	0.68524	0.68100	0.69365	0.61891	0.66439	0.64214	0.71037	0.63209	0.73419	0.67571
L23	13:13:37	0.68523	0.68096	0.69364	0.61869	0.66380	0.64211	0.71088	0.63206	0.73460	0.67590
L23	13:15:46	0.68529	0.68102	0.69375	0.61880	0.66424	0.64221	0.71135	0.63226	0.73561	0.67641
L23A	13:19:51	0.68527	0.68103	0.69377	0.61882	0.66432	0.64223	0.71130	0.63221	0.73557	0.67637
U1	13:24:45	0.68540	0.68118	0.69418	0.61930	0.66547	0.64366	0.71289	0.63438	0.74217	0.68270
U2	13:28:49	0.68556	0.68131	0.69501	0.62007	0.66670	0.64518	0.71625	0.63736	0.75101	0.69163
U3	13:32:48	0.68560	0.68154	0.69522	0.62047	0.66761	0.64581	0.71717	0.63862	0.75511	0.69608
U4	13:37:36	0.68568	0.68167	0.69555	0.62072	0.66820	0.64657	0.71960	0.64051	0.76227	0.70325
U5	13:41:49	0.68567	0.68182	0.69593	0.62103	0.66887	0.64734	0.72147	0.64207	0.76935	0.71047
U6	13:45:58	0.68566	0.68204	0.69633	0.62123	0.66929	0.64743	0.72290	0.64335	0.77710	0.71835
U7	13:50:39	0.68570	0.68215	0.69667	0.62136	0.66913	0.64794	0.72431	0.64457	0.78454	0.72546
U8	13:54:11	0.68572	0.68218	0.69689	0.62142	0.66973	0.64814	0.72468	0.64493	0.78764	0.72776
U9	13:57:18	0.68570	0.68219	0.69685	0.62145	0.66973	0.64813	0.72468	0.64492	0.78777	0.72784

Table F.21 continued

VIBRATING WIRE INSTRUMENT READINGS - TEMPERATURE

VLE 2 LOAD NUMBER	TIME	VW STRN TEMP DEG C 53	VW STRN TEMP DEG C 54	VW STRN TEMP DEG C 46	VW STRN TEMP DEG C 45	VW STRN TEMP DEG C 48	VW STRN TEMP DEG C 47	VW STRN TEMP DEG C 49	VW STRN TEMP DEG C 50	VW STRN TEMP DEG C 51	VW STRN TEMP DEG C 52
L0	10:45:00	20.506	20.598	20.231	20.262	21.804	21.679	22.873	22.842	22.842	23.255
L0	11:00:00	20.503	20.595	20.228	20.259	21.801	21.707	22.838	22.807	22.838	23.252
L0	11:15:00	20.500	20.592	20.225	20.255	21.797	21.673	22.835	22.803	22.835	23.250
L0	11:18:21	20.500	20.592	20.225	20.256	21.797	21.673	22.835	22.803	22.835	23.248
L0	11:21:07	20.500	20.593	20.226	20.257	21.799	21.705	22.868	22.836	22.836	23.250
L1	11:22:32	20.501	20.593	20.226	20.257	21.830	21.705	22.868	22.805	22.836	23.282
L1	11:23:08	20.501	20.624	20.226	20.257	21.799	21.705	22.868	22.805	22.836	23.250
L1	11:24:00	20.501	20.624	20.227	20.258	21.800	21.737	22.869	22.806	22.837	23.251
L1	11:26:00	20.502	20.625	20.227	20.258	21.800	21.706	22.869	22.806	22.869	23.251
L2	11:27:47	20.501	20.593	20.226	20.257	21.799	21.674	22.868	22.804	22.836	23.250
L2	11:28:16	20.501	20.654	20.226	20.287	21.799	21.705	22.868	22.804	22.836	23.281
L2	11:29:17	20.501	20.624	20.226	20.257	21.799	21.705	22.868	22.804	22.836	23.250
L2	11:31:16	20.500	20.623	20.225	20.256	21.829	21.704	22.867	22.803	22.867	23.248
L3	11:32:40	20.500	20.653	20.225	20.256	21.829	21.704	22.867	22.803	22.834	23.248
L3	11:33:08	20.530	20.591	20.224	20.255	21.828	21.703	22.866	22.803	22.866	23.280
L3	11:34:09	20.499	20.622	20.224	20.285	21.828	21.703	22.866	22.803	22.834	23.280
L3	11:36:07	20.499	20.621	20.224	20.254	21.827	21.703	22.865	22.802	22.834	23.247
L4	11:37:47	20.499	20.621	20.224	20.254	21.827	21.703	22.865	22.834	22.865	23.247
L4	11:38:18	20.529	20.621	20.224	20.254	21.827	21.703	22.897	22.802	22.834	23.279
L4	11:39:18	20.529	20.651	20.223	20.254	21.796	21.702	22.896	22.801	22.865	23.246
L4	11:41:16	20.529	20.621	20.223	20.254	21.796	21.702	22.896	22.801	22.865	23.246
L5	11:42:54	20.498	20.620	20.223	20.253	21.826	21.702	22.896	22.801	22.864	23.246
L5	11:43:25	20.528	20.651	20.223	20.253	21.795	21.702	22.864	22.801	22.864	23.246
L5	11:44:26	20.528	20.620	20.223	20.253	21.795	21.702	22.864	22.801	22.896	23.246
L5	11:46:26	20.528	20.620	20.223	20.284	21.826	21.701	22.864	22.801	22.896	23.246
L6	11:48:15	20.528	20.620	20.222	20.253	21.826	21.701	22.864	22.800	22.864	23.245
L6	11:48:45	20.528	20.620	20.222	20.253	21.826	21.701	22.864	22.800	22.864	23.245
L6	11:49:46	20.528	20.620	20.222	20.253	21.826	21.701	22.864	22.800	22.864	23.245
L6	11:51:44	20.528	20.650	20.222	20.253	21.826	21.701	22.863	22.832	22.863	23.245
L7	11:53:26	20.527	20.619	20.222	20.283	21.825	21.732	22.895	22.800	22.863	23.245
L7	11:54:17	20.527	20.619	20.222	20.252	21.825	21.701	22.863	22.800	22.863	23.245
L7	11:54:54	20.527	20.619	20.222	20.252	21.857	21.701	22.863	22.832	22.863	23.245
L7	11:56:54	20.558	20.619	20.222	20.252	21.825	21.701	22.895	22.800	22.863	23.245
L8	11:58:36	20.558	20.619	20.222	20.252	21.825	21.701	22.863	22.831	22.863	23.277
L8	11:58:57	20.527	20.619	20.222	20.252	21.856	21.701	22.863	22.831	22.863	23.277
L8	11:59:53	20.527	20.650	20.222	20.283	21.825	21.701	22.863	22.800	22.863	23.277
L8	12:01:55	20.527	20.619	20.222	20.283	21.825	21.701	22.863	22.800	22.863	23.245
L9	12:03:35	20.527	20.619	20.222	20.252	21.825	21.700	22.863	22.831	22.863	23.277
L9	12:04:04	20.527	20.619	20.222	20.252	21.825	21.700	22.863	22.831	22.863	23.277
L9	12:05:04	20.558	20.619	20.222	20.252	21.825	21.731	22.863	22.863	22.863	23.245
L9	12:07:05	20.527	20.619	20.222	20.252	21.825	21.700	22.863	22.800	22.894	23.245
L10	12:08:31	20.527	20.619	20.222	20.252	21.825	21.700	22.863	22.799	22.894	23.245
L10	12:09:02	20.527	20.619	20.222	20.252	21.825	21.700	22.863	22.799	22.863	23.277

Table F.21 continued

VIBRATING WIRE INSTRUMENT READINGS - TEMPERATURE

VLE 2 LOAD NUMBER	TIME	VW STRN TEMP DEG C 53	VW STRN TEMP DEG C 54	VW STRN TEMP DEG C 46	VW STRN TEMP DEG C 45	VW STRN TEMP DEG C 48	VW STRN TEMP DEG C 47	VW STRN TEMP DEG C 49	VW STRN TEMP DEG C 50	VW STRN TEMP DEG C 51	VW STRN TEMP DEG C 52
L10	12:12:09	20.527	20.650	20.221	20.282	21.825	21.700	22.863	22.831	22.863	23.276
L10	12:13:31	20.527	20.619	20.221	20.252	21.825	21.700	22.863	22.799	22.863	23.276
L11	12:14:11	20.527	20.619	20.221	20.252	21.825	21.700	22.863	22.831	22.863	23.276
L11	12:15:03	20.527	20.619	20.221	20.252	21.825	21.700	22.863	22.831	22.863	23.245
L11	12:16:59	20.527	20.619	20.221	20.252	21.825	21.700	22.863	22.799	22.895	23.276
L12	12:18:28	20.527	20.619	20.221	20.282	21.856	21.700	22.863	22.863	22.863	23.276
L12	12:19:00	20.527	20.619	20.252	20.252	21.825	21.700	22.863	22.831	22.863	23.276
L12	12:19:56	20.527	20.619	20.252	20.252	21.825	21.700	22.894	22.799	22.863	23.276
L12	12:21:57	20.527	20.619	20.221	20.282	21.825	21.700	22.894	22.831	22.863	23.276
L13	12:23:16	20.527	20.619	20.221	20.282	21.825	21.700	22.863	22.831	22.863	23.308
L13	12:23:48	20.527	20.619	20.221	20.252	21.825	21.700	22.863	22.799	22.863	23.276
L13	12:24:50	20.527	20.619	20.221	20.252	21.825	21.700	22.863	22.799	22.894	23.276
L13	12:26:47	20.527	20.649	20.252	20.282	21.825	21.700	22.863	22.799	22.863	23.276
L14	12:28:09	20.527	20.619	20.221	20.282	21.825	21.700	22.863	22.831	22.863	23.308
L14	12:28:38	20.525	20.647	20.219	20.250	21.823	21.698	22.860	22.797	22.860	23.306
L14	12:29:40	20.525	20.617	20.219	20.250	21.823	21.698	22.860	22.797	22.860	23.274
L14	12:31:34	20.525	20.648	20.220	20.250	21.823	21.729	22.861	22.829	22.861	23.275
L15	12:32:54	20.525	20.617	20.220	20.250	21.823	21.698	22.861	22.829	22.861	23.306
L15	12:33:23	20.556	20.617	20.250	20.281	21.823	21.698	22.861	22.829	22.861	23.275
L15	12:34:22	20.525	20.617	20.220	20.251	21.823	21.699	22.861	22.830	22.861	23.275
L15	12:36:23	20.525	20.617	20.251	20.251	21.823	21.730	22.861	22.830	22.861	23.307
L16	12:37:55	20.526	20.618	20.220	20.251	21.824	21.699	22.862	22.798	22.893	23.275
L16	12:38:27	20.556	20.618	20.220	20.251	21.824	21.699	22.862	22.862	22.862	23.275
L16	12:39:26	20.526	20.618	20.220	20.251	21.824	21.699	22.862	22.862	22.862	23.275
L16	12:41:25	20.526	20.649	20.251	20.251	21.824	21.699	22.862	22.830	22.862	23.275
L17	12:42:56	20.526	20.618	20.251	20.282	21.824	21.699	22.862	22.830	22.862	23.275
L17	12:43:19	20.526	20.618	20.251	20.251	21.824	21.699	22.862	22.830	22.862	23.275
L17	12:44:20	20.526	20.618	20.251	20.251	21.824	21.699	22.862	22.799	22.862	23.275
L17	12:46:19	20.526	20.618	20.251	20.282	21.855	21.699	22.862	22.830	22.862	23.276
L18	12:47:55	20.526	20.618	20.221	20.251	21.824	21.699	22.862	22.862	22.862	23.276
L18	12:48:24	20.557	20.618	20.251	20.251	21.824	21.699	22.862	22.830	22.862	23.276
L18	12:49:25	20.526	20.618	20.251	20.251	21.824	21.700	22.862	22.830	22.862	23.276
L18	12:51:27	20.526	20.618	20.221	20.251	21.855	21.700	22.862	22.830	22.862	23.308
L19	12:52:40	20.526	20.618	20.252	20.252	21.824	21.731	22.862	22.830	22.862	23.308
L19	12:53:08	20.526	20.618	20.252	20.282	21.824	21.731	22.862	22.830	22.862	23.276
L19	12:54:04	20.526	20.618	20.252	20.252	21.824	21.731	22.862	22.830	22.862	23.308
L19	12:56:05	20.527	20.618	20.252	20.252	21.824	21.700	22.862	22.831	22.862	23.276
L20	12:57:33	20.527	20.649	20.252	20.252	21.824	21.700	22.862	22.831	22.862	23.276
L20	12:58:22	20.527	20.649	20.252	20.252	21.824	21.700	22.862	22.831	22.862	23.276
L20	12:59:04	20.557	20.619	20.252	20.252	21.824	21.731	22.862	22.831	22.862	23.308
L20	13:01:04	20.527	20.619	20.252	20.252	21.824	21.700	22.862	22.831	22.862	23.308
L21	13:02:46	20.527	20.619	20.252	20.252	21.824	21.731	22.862	22.799	22.862	23.276
L21	13:03:45	20.527	20.649	20.250	20.250	21.822	21.698	22.860	22.829	22.860	23.274

Table F.21 continued

VIBRATING WIRE INSTRUMENT READINGS - TEMPERATURE

VLE 2 LOAD NUMBER	TIME	VW STRN TEMP DEG C 53	VW STRN TEMP DEG C 54	VW STRN TEMP DEG C 46	VW STRN TEMP DEG C 45	VW STRN TEMP DEG C 48	VW STRN TEMP DEG C 47	VW STRN TEMP DEG C 49	VW STRN TEMP DEG C 50	VW STRN TEMP DEG C 51	VW STRN TEMP DEG C 52
L21	13:05:44	20.525	20.617	20.250	20.250	21.822	21.698	22.860	22.829	22.860	23.274
L22	13:07:11	20.525	20.617	20.220	20.250	21.823	21.729	22.861	22.829	22.861	23.274
L22	13:07:40	20.525	20.617	20.250	20.250	21.823	21.698	22.861	22.829	22.861	23.274
L22	13:08:39	20.525	20.617	20.250	20.250	21.823	21.698	22.861	22.829	22.861	23.274
L22	13:10:45	20.525	20.648	20.220	20.250	21.823	21.699	22.861	22.798	22.861	23.275
L23	13:12:14	20.525	20.648	20.281	20.281	21.823	21.699	22.861	22.829	22.861	23.307
L23	13:12:49	20.526	20.618	20.251	20.281	21.824	21.699	22.861	22.830	22.861	23.275
L23	13:13:37	20.526	20.648	20.251	20.251	21.824	21.699	22.861	22.830	22.861	23.275
L23	13:15:46	20.526	20.618	20.251	20.281	21.824	21.699	22.862	22.830	22.862	23.275
L23A	13:19:51	20.526	20.618	20.221	20.251	21.824	21.699	22.862	22.830	22.862	23.276
U1	13:24:45	20.526	20.618	20.251	20.251	21.824	21.731	22.862	22.830	22.862	23.244
U2	13:28:49	20.526	20.618	20.221	20.251	21.824	21.700	22.862	22.831	22.862	23.276
U3	13:32:48	20.527	20.618	20.221	20.252	21.824	21.700	22.862	22.799	22.862	23.308
U4	13:37:36	20.527	20.619	20.221	20.252	21.825	21.700	22.862	22.831	22.862	23.276
U5	13:41:49	20.527	20.619	20.221	20.252	21.791	21.698	22.860	22.797	22.860	23.274
U6	13:45:58	20.525	20.617	20.250	20.250	21.823	21.698	22.861	22.829	22.861	23.274
U7	13:50:39	20.525	20.617	20.250	20.249	21.822	21.697	22.859	22.796	22.891	23.273
U8	13:54:11	20.524	20.616	20.219	20.280	21.791	21.697	22.860	22.828	22.892	23.242
U9	13:57:18	20.525	20.617	20.219	20.250	21.823	21.729	22.860	22.797	22.860	23.274

Table F.21 continued

VIBRATING WIRE CALCULATED STRAIN INCREMENTS

VLE 2 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 53	VW STRN MICRO STRAIN 54	VW STRN MICRO STRAIN 46	VW STRN MICRO STRAIN 45	VW STRN MICRO STRAIN 48	VW STRN MICRO STRAIN 47	VW STRN MICRO STRAIN 49	VW STRN MICRO STRAIN 50	VW STRN MICRO STRAIN 51	VW STRN MICRO STRAIN 52
L0	10:45:00	-0.2	0.3	-0.0	-0.0	-0.0	-0.0	-0.0	-0.1	0.1	0.0
L0	11:00:00	-0.1	-0.1	-0.1	0.0	-0.0	-0.0	0.0	0.1	0.1	0.1
L0	11:15:00	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
L0	11:18:21	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	-0.0
L0	11:21:07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
L1	11:22:32	-0.0	-0.0	0.2	0.1	0.3	0.7	0.8	0.7	4.7	6.1
L1	11:23:08	-0.0	-0.1	0.3	0.2	0.4	0.7	0.9	0.7	4.8	6.2
L1	11:24:00	0.0	-0.0	0.2	0.2	0.4	0.7	0.9	0.7	4.8	6.2
L1	11:26:00	-0.0	-0.1	0.2	0.2	0.4	0.7	0.8	0.7	4.8	6.2
L2	11:27:47	0.0	0.1	0.4	0.3	0.6	1.2	1.6	1.3	8.3	10.3
L2	11:28:16	0.0	0.0	0.4	0.2	0.6	1.2	1.5	1.3	8.3	10.3
L2	11:29:17	-0.0	0.2	0.3	0.3	0.6	1.2	1.4	1.3	8.3	10.3
L2	11:31:16	0.0	0.1	0.4	0.3	0.6	1.2	1.5	1.3	8.1	10.3
L3	11:32:40	0.1	0.1	0.7	0.4	1.3	1.8	2.5	2.6	14.6	17.2
L3	11:33:08	0.1	0.2	0.6	0.4	1.3	1.8	2.4	2.6	14.8	17.1
L3	11:34:09	0.1	0.1	0.7	0.3	1.3	1.7	2.4	2.6	15.0	17.2
L3	11:36:07	0.1	0.1	0.6	0.4	1.3	1.7	2.4	2.6	15.0	17.2
L4	11:37:47	0.2	0.2	0.9	0.5	3.0	2.5	4.6	3.7	22.7	24.6
L4	11:38:18	0.1	0.3	1.0	0.5	3.0	2.5	4.7	3.8	22.8	24.5
L4	11:39:18	0.1	0.1	0.9	0.5	2.9	2.5	4.6	3.7	22.8	24.7
L4	11:41:16	0.1	0.3	0.9	0.5	2.9	2.4	4.6	3.7	22.9	24.7
L5	11:42:54	0.2	0.5	1.5	1.0	2.7	3.7	7.1	6.6	34.4	36.5
L5	11:43:25	0.2	0.4	1.5	1.0	2.7	3.8	7.2	6.6	34.5	36.5
L5	11:44:26	0.1	0.5	1.4	1.0	2.7	3.7	7.2	6.6	34.6	36.7
L5	11:46:26	0.1	0.4	1.4	1.0	2.7	3.7	7.2	6.6	34.6	36.7
L6	11:48:15	0.2	0.7	1.9	2.1	4.3	4.8	12.3	10.1	48.4	50.1
L6	11:48:45	0.2	0.7	1.9	2.0	4.2	4.8	12.2	10.0	48.4	50.1
L6	11:49:46	0.2	0.7	1.9	2.0	4.3	4.8	12.1	10.0	48.5	50.3
L6	11:51:44	0.1	0.7	1.9	2.0	4.2	4.8	12.1	10.1	48.7	50.5
L7	11:53:26	0.2	0.9	2.2	2.5	5.5	5.9	14.0	12.8	61.5	63.7
L7	11:54:17	0.1	0.9	2.1	2.6	5.4	5.9	14.0	12.8	61.7	63.7
L7	11:54:54	0.1	0.8	2.1	2.5	5.4	5.8	13.9	12.8	61.7	63.9
L7	11:56:54	0.0	0.8	2.1	2.5	5.4	5.6	13.9	12.8	62.0	64.0
L8	11:58:36	0.2	1.0	2.3	2.7	6.3	6.7	16.3	15.6	75.5	77.3
L8	11:58:57	0.1	0.9	2.3	2.7	6.3	6.7	16.3	15.7	75.4	77.3
L8	11:59:53	0.1	0.9	2.2	2.6	6.1	6.6	16.2	15.6	75.4	77.4
L8	12:01:55	0.0	0.9	2.1	2.6	6.1	6.5	16.2	15.5	75.5	77.6
L9	12:03:35	0.0	0.9	2.3	2.8	7.8	7.1	20.6	18.1	88.0	91.1
L9	12:04:04	0.1	0.9	2.3	2.7	7.4	7.0	20.0	18.1	88.1	90.9
L9	12:05:04	-0.1	1.0	2.2	2.7	7.0	6.9	20.0	18.0	88.6	91.6
L9	12:07:05	0.0	0.8	2.2	2.6	6.6	6.9	20.0	18.1	88.8	91.8
L10	12:08:31	0.1	0.9	2.3	2.7	7.7	7.2	22.2	20.6	101.4	104.9
L10	12:09:02	0.1	0.9	2.3	2.7	8.1	7.2	22.2	20.6	102.0	104.9

Table F.21 continued

VIBRATING WIRE CALCULATED STRAIN INCREMENTS

VLE 2 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 53	VW STRN MICRO STRAIN 54	VW STRN MICRO STRAIN 46	VW STRN MICRO STRAIN 45	VW STRN MICRO STRAIN 48	VW STRN MICRO STRAIN 47	VW STRN MICRO STRAIN 49	VW STRN MICRO STRAIN 50	VW STRN MICRO STRAIN 51	VW STRN MICRO STRAIN 52
L10	12:12:09	-0.0	0.8	2.1	2.6	7.8	7.1	22.1	20.4	102.3	105.2
L10	12:13:31	0.0	0.9	2.2	2.7	7.8	7.4	24.4	22.6	109.6	112.3
L11	12:14:11	0.1	0.9	2.2	2.7	7.9	7.2	24.1	22.3	109.2	112.0
L11	12:15:03	0.0	0.9	2.1	2.7	7.9	7.2	24.3	22.3	109.7	112.4
L11	12:16:59	-0.1	0.7	2.1	2.6	7.6	7.1	24.2	22.3	109.9	112.7
L12	12:18:28	0.0	0.9	2.2	2.7	8.0	7.3	26.8	22.9	116.3	118.5
L12	12:19:00	-0.0	0.8	2.1	2.6	7.9	7.3	26.8	22.9	116.0	118.5
L12	12:19:56	-0.0	0.8	2.1	2.7	8.0	7.3	26.5	22.9	115.9	118.7
L12	12:21:57	0.0	0.7	2.1	2.6	7.7	7.2	26.6	22.9	115.9	119.1
L13	12:23:16	0.1	0.8	2.1	2.6	7.9	7.5	25.5	24.5	122.9	125.7
L13	12:23:48	-0.0	0.8	2.1	2.6	7.9	7.4	25.4	24.3	122.9	125.8
L13	12:24:50	-0.0	0.7	2.1	2.7	7.8	7.3	25.3	24.3	123.7	126.5
L13	12:26:47	-0.0	0.7	1.9	2.6	8.0	7.3	25.4	24.3	124.1	126.8
L14	12:28:09	-0.0	0.7	2.1	2.7	7.6	7.5	27.7	25.0	130.8	132.5
L14	12:28:38	-0.1	0.7	2.1	2.7	8.1	7.4	27.7	25.0	131.1	133.3
L14	12:29:40	0.0	0.7	2.1	2.7	8.2	7.4	27.8	25.0	131.6	133.5
L14	12:31:34	0.0	0.7	2.0	2.7	7.8	7.3	27.8	24.9	131.9	133.9
L15	12:32:54	0.0	0.7	2.1	2.7	7.8	7.5	29.9	25.9	137.6	142.2
L15	12:33:23	-0.0	0.7	2.0	2.6	8.1	7.5	30.7	26.2	137.5	142.1
L15	12:34:22	0.0	0.7	2.0	2.7	7.7	7.4	30.0	26.0	137.6	142.1
L15	12:36:23	0.0	0.6	1.9	2.7	7.6	7.4	30.0	26.0	137.8	141.4
L16	12:37:55	0.1	0.6	2.0	2.7	7.5	7.6	31.4	27.4	145.4	148.0
L16	12:38:27	0.0	0.6	2.0	2.7	7.4	7.6	31.4	27.5	145.7	148.3
L16	12:39:26	0.1	0.6	2.0	2.7	7.2	7.5	31.3	27.4	146.2	148.7
L16	12:41:25	0.1	0.5	1.9	2.7	6.9	7.5	31.2	27.4	146.0	148.6
L17	12:42:56	0.1	0.5	1.9	2.6	6.9	7.7	31.9	28.4	153.0	154.6
L17	12:43:19	-0.0	0.6	1.9	2.7	6.5	7.8	31.9	28.4	153.0	155.0
L17	12:44:20	0.0	0.4	1.8	2.7	6.4	7.6	32.1	28.5	153.2	155.0
L17	12:46:19	0.1	0.5	1.8	2.6	6.5	7.6	32.0	28.5	153.4	155.5
L18	12:47:55	-0.0	0.5	1.9	2.7	6.5	7.7	33.5	29.1	156.8	160.7
L18	12:48:24	-0.0	0.5	1.8	2.7	6.2	7.7	33.6	29.1	157.0	159.6
L18	12:49:25	0.0	0.4	1.8	2.7	6.4	7.8	33.9	29.2	157.4	159.4
L18	12:51:27	0.0	0.5	1.8	2.7	6.4	7.7	34.2	29.2	157.7	158.9
L19	12:52:40	0.1	0.4	1.8	2.6	6.3	7.7	36.0	29.3	160.7	162.7
L19	12:53:08	-0.0	0.5	1.8	2.6	6.3	7.8	36.0	29.3	161.3	163.0
L19	12:54:04	0.0	0.5	1.7	2.6	6.3	7.8	36.2	29.3	161.1	163.2
L19	12:56:05	-0.0	0.4	1.7	2.7	6.1	7.7	36.2	29.3	161.3	163.2
L20	12:57:33	0.1	0.4	1.7	2.7	6.1	7.8	35.2	29.6	163.9	165.9
L20	12:58:22	0.0	0.3	1.7	2.7	6.0	7.9	34.9	29.6	164.4	167.1
L20	12:59:04	-0.0	0.4	1.6	2.7	6.0	7.7	35.1	29.7	164.7	167.1
L20	13:01:04	0.1	0.4	1.6	2.7	6.0	7.8	35.0	29.6	164.7	166.9
L21	13:02:46	0.1	0.4	1.6	2.7	6.0	7.9	36.6	30.1	168.6	169.7
L21	13:03:45	0.1	0.4	1.6	2.8	5.9	7.8	37.0	30.1	168.2	169.5

Table F.21 continued

VIBRATING WIRE CALCULATED STRAIN INCREMENTS

VLE 2 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 53	VW STRN MICRO STRAIN 54	VW STRN MICRO STRAIN 46	VW STRN MICRO STRAIN 45	VW STRN MICRO STRAIN 48	VW STRN MICRO STRAIN 47	VW STRN MICRO STRAIN 49	VW STRN MICRO STRAIN 50	VW STRN MICRO STRAIN 51	VW STRN MICRO STRAIN 52
L21	13:05:44	0.0	0.4	1.6	2.8	5.9	7.9	37.1	30.2	169.3	170.0
L22	13:07:11	0.1	0.5	1.6	2.9	5.7	8.2	41.3	31.8	176.0	176.9
L22	13:07:40	0.1	0.4	1.4	2.9	5.6	8.5	41.8	31.5	176.1	177.2
L22	13:08:39	0.1	0.3	1.3	2.9	5.3	8.6	42.2	30.8	176.5	178.0
L22	13:10:45	0.0	0.4	1.2	3.0	5.1	8.9	43.0	29.4	177.1	178.5
L23	13:12:14	0.2	0.4	0.7	3.5	5.4	9.7	36.7	24.7	155.7	158.2
L23	13:12:49	0.2	0.5	0.8	3.9	6.0	9.9	34.6	24.7	154.0	156.0
L23	13:13:37	0.2	0.6	0.8	4.6	7.9	10.0	32.9	24.8	152.6	155.4
L23	13:15:46	-0.0	0.4	0.5	4.2	6.5	9.6	31.4	24.2	149.3	153.7
L23A	13:19:51	0.1	0.4	0.4	4.2	6.2	9.6	31.6	24.3	149.4	153.8
U1	13:24:45	-0.4	-0.1	-1.0	2.6	2.4	4.8	26.3	17.2	127.6	133.0
U2	13:28:49	-0.9	-0.5	-3.7	0.1	-1.7	-0.2	15.2	7.3	98.4	103.4
U3	13:32:48	-1.0	-1.3	-4.4	-1.2	-4.7	-2.3	12.2	3.2	84.9	88.7
U4	13:37:36	-1.3	-1.7	-5.4	-2.1	-6.6	-4.8	4.1	-3.1	61.2	65.0
U5	13:41:49	-1.3	-2.2	-6.7	-3.1	-8.8	-7.3	-2.0	-8.2	37.8	41.2
U6	13:45:58	-1.2	-2.9	-8.1	-3.8	-10.2	-7.6	-6.8	-12.5	12.2	15.1
U7	13:50:39	-1.4	-3.3	-9.2	-4.2	-9.7	-9.3	-11.4	-16.5	-12.4	-8.4
U8	13:54:11	-1.4	-3.4	-9.9	-4.4	-11.6	-10.0	-12.6	-17.7	-22.6	-15.9
U9	13:57:18	-1.4	-3.4	-9.7	-4.5	-11.7	-10.0	-12.6	-17.6	-23.0	-16.2

Table F.21 continued

VIBRATING WIRE CALCULATED STRAIN (4 MINUTE READINGS)

VLE 2 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 53	VW STRN MICRO STRAIN 54	VW STRN MICRO STRAIN 46	VW STRN MICRO STRAIN 45	VW STRN MICRO STRAIN 48	VW STRN MICRO STRAIN 47	VW STRN MICRO STRAIN 49	VW STRN MICRO STRAIN 50	VW STRN MICRO STRAIN 51	VW STRN MICRO STRAIN 52
L0	11:21:07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
L1	11:26:00	-0.0	-0.1	0.2	0.2	0.4	0.7	0.8	0.7	4.8	6.2
L2	11:31:16	0.0	0.1	0.4	0.3	0.6	1.2	1.5	1.3	8.1	10.3
L3	11:36:07	0.1	0.1	0.6	0.4	1.3	1.7	2.4	2.6	15.0	17.2
L4	11:41:16	0.1	0.3	0.9	0.5	2.9	2.4	4.6	3.7	22.9	24.7
L5	11:46:26	0.1	0.4	1.4	1.0	2.7	3.7	7.2	6.6	34.6	36.7
L6	11:51:44	0.1	0.7	1.9	2.0	4.2	4.8	12.1	10.1	48.7	50.5
L7	11:56:54	0.0	0.8	2.1	2.5	5.4	5.6	13.9	12.8	62.0	64.0
L8	12:01:55	0.0	0.9	2.1	2.6	6.1	6.5	16.2	15.5	75.5	77.6
L9	12:07:05	0.0	0.8	2.2	2.6	6.6	6.9	20.0	18.1	88.8	91.8
L10	12:13:31	0.0	0.9	2.2	2.7	7.8	7.4	24.4	22.6	109.6	112.3
L11	12:16:59	-0.1	0.7	2.1	2.6	7.6	7.1	24.2	22.3	109.9	112.7
L12	12:21:57	0.0	0.7	2.1	2.6	7.7	7.2	26.6	22.9	115.9	119.1
L13	12:26:47	-0.0	0.7	1.9	2.6	8.0	7.3	25.4	24.3	124.1	126.8
L14	12:31:34	0.0	0.7	2.0	2.7	7.8	7.3	27.8	24.9	131.9	133.9
L15	12:36:23	0.0	0.6	1.9	2.7	7.6	7.4	30.0	26.0	137.8	141.4
L16	12:41:25	0.1	0.5	1.9	2.7	6.9	7.5	31.2	27.4	146.0	148.6
L17	12:46:19	0.1	0.5	1.8	2.6	6.5	7.6	32.0	28.5	153.4	155.5
L18	12:51:27	0.0	0.5	1.8	2.7	6.4	7.7	34.2	29.2	157.7	158.9
L19	12:56:05	-0.0	0.4	1.7	2.7	6.1	7.7	36.2	29.3	161.3	163.2
L20	13:01:04	0.1	0.4	1.6	2.7	6.0	7.8	35.0	29.6	164.7	166.9
L21	13:05:44	0.0	0.4	1.6	2.8	5.9	7.9	37.1	30.2	169.3	170.0
L22	13:10:45	0.0	0.4	1.2	3.0	5.1	8.9	43.0	29.4	177.1	178.5
L23	13:15:46	-0.0	0.4	0.5	4.2	6.5	9.6	31.4	24.2	149.3	153.7
L23A	13:19:51	0.1	0.4	0.4	4.2	6.2	9.6	31.6	24.3	149.4	153.8
U1	13:24:45	-0.4	-0.1	-1.0	2.6	2.4	4.8	26.3	17.2	127.6	133.0
U2	13:28:49	-0.9	-0.5	-3.7	0.1	-1.7	-0.2	15.2	7.3	98.4	103.4
U3	13:32:48	-1.0	-1.3	-4.4	-1.2	-4.7	-2.3	12.2	3.2	84.9	88.7
U4	13:37:36	-1.3	-1.7	-5.4	-2.1	-6.6	-4.8	4.1	-3.1	61.2	65.0
U5	13:41:49	-1.3	-2.2	-6.7	-3.1	-8.8	-7.3	-2.0	-8.2	37.8	41.2
U6	13:45:58	-1.2	-2.9	-8.1	-3.8	-10.2	-7.6	-6.8	-12.5	12.2	15.1
U7	13:50:39	-1.4	-3.3	-9.2	-4.2	-9.7	-9.3	-11.4	-16.5	-12.4	-8.4
U8	13:54:11	-1.4	-3.4	-9.9	-4.4	-11.6	-10.0	-12.6	-17.7	-22.6	-15.9
U9	13:57:18	-1.4	-3.4	-9.7	-4.5	-11.7	-10.0	-12.6	-17.6	-23.0	-16.2

Table F.21 continued

AVERAGE STRAIN AT EACH GAGE LEVEL, INTEGRATED PILE COMPRESSION & COMPARISON WITH TELLTALE MEASUREMENT (4 MINUTE READINGS)

VLE 2 LOAD NUMBER	AVG VW MICRO STRAIN SURFACE	AVG VW MICRO STRAIN 53+54	AVG VW MICRO STRAIN 46+45	AVG VW MICRO STRAIN 48+47	AVG VW MICRO STRAIN 49+50	AVG VW MICRO STRAIN 51+52	EST'D. MICRO STRAIN CELL TOP	PILE COMPRESSION SG MSMT. INCHES	TT MSMT. INCHES	ABS.DIFF. SG-TT INCHES
L0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0000	0.0000	0.0000
L1	0.0	-0.0	0.2	0.5	0.8	5.5	11.7	0.0005	0.0004	0.0002
L2	0.0	0.1	0.3	0.9	1.4	9.2	18.0	0.0009	0.0006	0.0003
L3	0.0	0.1	0.5	1.5	2.5	16.1	27.8	0.0015	0.0010	0.0006
L4	0.0	0.2	0.7	2.7	4.1	23.8	38.1	0.0024	0.0013	0.0011
L5	0.0	0.3	1.2	3.2	6.9	35.7	51.1	0.0035	0.0022	0.0014
L6	0.0	0.4	1.9	4.5	11.1	49.6	65.3	0.0051	0.0032	0.0019
L7	0.0	0.4	2.3	5.5	13.3	63.0	79.2	0.0063	0.0040	0.0024
L8	0.0	0.4	2.3	6.3	15.9	76.6	93.1	0.0076	0.0050	0.0026
L9	0.0	0.4	2.4	6.8	19.0	90.3	107.3	0.0089	0.0059	0.0030
L10	0.0	0.5	2.5	7.6	23.5	110.9	125.7	0.0108	0.0068	0.0040
L11	0.0	0.3	2.4	7.4	23.2	111.3	128.6	0.0108	0.0072	0.0036
L12	0.0	0.4	2.3	7.5	24.7	117.5	135.1	0.0114	0.0077	0.0037
L13	0.0	0.3	2.3	7.6	24.9	125.5	142.8	0.0120	0.0083	0.0037
L14	0.0	0.4	2.3	7.6	26.4	132.9	150.3	0.0126	0.0089	0.0037
L15	0.0	0.3	2.3	7.5	28.0	139.6	157.1	0.0133	0.0092	0.0040
L16	0.0	0.3	2.3	7.2	29.3	147.3	164.7	0.0139	0.0100	0.0039
L17	0.0	0.3	2.2	7.0	30.2	154.4	171.9	0.0145	0.0106	0.0039
L18	0.0	0.2	2.2	7.1	31.7	158.3	175.7	0.0149	0.0109	0.0040
L19	0.0	0.2	2.2	6.9	32.8	162.3	179.5	0.0153	0.0112	0.0041
L20	0.0	0.2	2.2	6.9	32.3	165.8	183.1	0.0155	0.0114	0.0041
L21	0.0	0.2	2.2	6.9	33.7	169.6	186.8	0.0159	0.0118	0.0041
L22	0.0	0.2	2.1	7.0	36.2	177.8	194.6	0.0167	0.0124	0.0043
L23	0.0	0.2	2.3	8.0	27.8	151.5	169.2	0.0141	0.0107	0.0035
L23A	0.0	0.2	2.3	7.9	27.9	151.6	167.6	0.0141	0.0106	0.0035
U1	0.0	-0.2	0.8	3.6	21.7	130.3	144.3	0.0116	0.0087	0.0029
U2	0.0	-0.7	-1.8	-0.9	11.3	100.9	112.7	0.0079	0.0058	0.0021
U3	0.0	-1.2	-2.8	-3.5	7.7	86.8	97.9	0.0063	0.0046	0.0017
U4	0.0	-1.5	-3.8	-5.7	0.5	63.1	73.4	0.0037	0.0026	0.0011
U5	0.0	-1.7	-4.9	-8.1	-5.1	39.5	51.3	0.0012	0.0009	0.0003
U6	0.0	-2.1	-5.9	-8.9	-9.6	13.7	23.0	-0.0012	-0.0007	-0.0005
U7	0.0	-2.3	-6.7	-9.5	-13.9	-10.4	-2.9	-0.0034	-0.0021	-0.0013
U8	0.0	-2.4	-7.1	-10.8	-15.2	-19.3	-12.3	-0.0043	-0.0025	-0.0017
U9	0.0	-2.4	-7.1	-10.8	-15.1	-19.6	-12.5	-0.0043	-0.0026	-0.0017
ELEV. FT	3.57	-2.47	-6.96	-12.96	-19.46	-29.96	-30.46			

Table F.21 continued

VIBRATING WIRE CALCULATED AVERAGE LOADS (4 MINUTE READINGS)

LA = 10.50 ft ACA = 317.115 si
LB = 1.38 ft ACB = 313.155 si
B = 18.00 in ASA = 3.538 si
ES = 27500.0 ksi ASB = 7.498 si

VLE 2 LOAD NUMBER	AVG VW LOAD TONS SURFACE	AVG VW LOAD TONS 53+54	AVG VW LOAD TONS 46+45	AVG VW LOAD TONS 48+47	AVG VW LOAD TONS 49+50	AVG VW LOAD TONS 51+52	OSTERBERG LOAD TONS BOTTOM	INCR. PILE MODULUS KSI	CALC. PILE A MODULUS KSI	CALC. PILE B MODULUS KSI
L0	0.0	0.00	0.00	0.00	0.00	0.00	0.0		3991.2	4281.2
L1	0.0	-0.02	0.11	0.33	0.49	3.83	15.5	17356.5	3991.2	4281.2
L2	0.0	0.04	0.23	0.59	0.89	6.40	23.1	12643.5	3991.2	4281.2
L3	0.0	0.07	0.31	0.95	1.61	11.17	33.6	9357.8	3991.2	4281.2
L4	0.0	0.14	0.43	1.72	2.67	16.50	43.8	8243.3	3991.2	4281.2
L5	0.0	0.17	0.77	2.06	4.44	24.73	54.2	5396.7	3991.2	4281.2
L6	0.0	0.27	1.25	2.90	7.18	34.39	64.4	4542.8	3991.2	4281.2
L7	0.0	0.26	1.46	3.54	8.61	43.68	74.5	4657.7	3991.2	4281.2
L8	0.0	0.29	1.52	4.08	10.26	53.10	84.7	4621.7	3991.2	4281.2
L9	0.0	0.28	1.55	4.37	12.29	62.61	95.0	4641.6	3991.2	4281.2
L10	0.0	0.31	1.60	4.90	15.19	76.92	105.1	3024.9	3991.2	4281.2
L11	0.0	0.21	1.52	4.76	15.01	77.20	110.1	78717.4	3991.2	4281.2
L12	0.0	0.23	1.50	4.82	16.00	81.48	115.1	4988.2	3991.2	4281.2
L13	0.0	0.21	1.47	4.94	16.08	87.02	120.1	3861.3	3991.2	4281.2
L14	0.0	0.23	1.51	4.89	17.04	92.18	125.3	4290.2	3991.2	4281.2
L15	0.0	0.19	1.49	4.85	18.12	96.80	130.3	4611.1	3991.2	4281.2
L16	0.0	0.20	1.46	4.67	18.94	102.18	135.4	4036.7	3991.2	4281.2
L17	0.0	0.18	1.42	4.55	19.55	107.10	140.4	4402.1	3991.2	4281.2
L18	0.0	0.16	1.44	4.57	20.50	109.78	143.0	4191.7	3991.2	4281.2
L19	0.0	0.11	1.41	4.47	21.19	112.54	145.4	3655.2	3991.2	4281.2
L20	0.0	0.14	1.40	4.48	20.90	115.00	147.9	4402.2	3991.2	4281.2
L21	0.0	0.13	1.39	4.46	21.79	117.64	150.4	3955.6	3991.2	4281.2
L22	0.0	0.13	1.36	4.53	23.39	123.32	155.4	3813.7	3991.2	4281.2
L23	0.0	0.14	1.52	5.20	17.96	105.08	138.8	3900.1	3991.2	4281.2
L23A	0.0	0.15	1.50	5.10	18.07	105.17	135.6		3991.2	4281.2
U1	0.0	-0.15	0.54	2.33	14.05	90.37	117.0		3991.2	4281.2
U2	0.0	-0.46	-1.16	-0.60	7.28	69.99	92.5		3991.2	4281.2
U3	0.0	-0.75	-1.81	-2.24	4.96	60.18	81.4		3991.2	4281.2
U4	0.0	-0.97	-2.43	-3.68	0.34	43.78	63.4		3991.2	4281.2
U5	0.0	-1.12	-3.17	-5.21	-3.31	27.40	49.9		3991.2	4281.2
U6	0.0	-1.35	-3.82	-5.76	-6.22	9.49	27.3		3991.2	4281.2
U7	0.0	-1.51	-4.32	-6.14	-9.02	-7.20	7.1		3991.2	4281.2
U8	0.0	-1.56	-4.62	-6.98	-9.81	-13.37	0.0		3991.2	4281.2
U9	0.0	-1.55	-4.60	-7.00	-9.79	-13.61	0.0		3991.2	4281.2

ELEV. FT	3.57	-2.47	-6.96	-12.96	-19.46	-29.96	-31.34	3771.0 KSI = CONCRETE MODULUS

Table F.21 continued

INTEGRATED MOVEMENT AT VW STRAIN GAGE (4 MINUTE READINGS)

VLE 2 LOAD NUMBER	VW MOVEMENT INCHES SURFACE	VW MOVEMENT INCHES 53+54	VW MOVEMENT INCHES 46+45	VW MOVEMENT INCHES 48+47	VW MOVEMENT INCHES 49+50	VW MOVEMENT INCHES 51+52	VW MOVEMENT INCHES CELL TOP
L0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L1	-0.0002	-0.0002	-0.0002	-0.0001	-0.0001	0.0003	0.0004
L2	-0.0003	-0.0003	-0.0003	-0.0003	-0.0002	0.0005	0.0006
L3	-0.0006	-0.0006	-0.0006	-0.0005	-0.0003	0.0008	0.0010
L4	0.0039	0.0040	0.0040	0.0041	0.0044	0.0061	0.0063
L5	0.0086	0.0086	0.0087	0.0088	0.0092	0.0119	0.0122
L6	0.0131	0.0131	0.0131	0.0134	0.0140	0.0178	0.0182
L7	0.0176	0.0176	0.0177	0.0180	0.0187	0.0235	0.0240
L8	0.0174	0.0174	0.0175	0.0178	0.0187	0.0245	0.0250
L9	0.0170	0.0170	0.0171	0.0174	0.0185	0.0253	0.0259
L10	0.0160	0.0160	0.0161	0.0164	0.0177	0.0261	0.0268
L11	0.0214	0.0214	0.0214	0.0218	0.0230	0.0315	0.0322
L12	0.0263	0.0263	0.0264	0.0268	0.0280	0.0370	0.0377
L13	0.0313	0.0313	0.0314	0.0317	0.0330	0.0425	0.0433
L14	0.0363	0.0363	0.0364	0.0367	0.0380	0.0481	0.0489
L15	0.0360	0.0360	0.0360	0.0364	0.0378	0.0483	0.0492
L16	0.0461	0.0461	0.0462	0.0465	0.0480	0.0591	0.0600
L17	0.0561	0.0561	0.0562	0.0565	0.0579	0.0696	0.0706
L18	0.0560	0.0560	0.0561	0.0564	0.0579	0.0699	0.0709
L19	0.0659	0.0659	0.0660	0.0663	0.0678	0.0801	0.0812
L20	0.0709	0.0709	0.0710	0.0713	0.0729	0.0853	0.0864
L21	0.0759	0.0760	0.0760	0.0763	0.0779	0.0907	0.0918
L22	0.1157	0.1157	0.1158	0.1161	0.1178	0.1313	0.1324
L23	0.4615	0.4616	0.4616	0.4620	0.4634	0.4747	0.4757
L23A	0.4615	0.4615	0.4616	0.4619	0.4633	0.4746	0.4756
U1	0.4621	0.4621	0.4621	0.4623	0.4633	0.4729	0.4737
U2	0.4579	0.4579	0.4578	0.4577	0.4581	0.4652	0.4658
U3	0.4583	0.4582	0.4581	0.4579	0.4581	0.4640	0.4646
U4	0.4539	0.4539	0.4537	0.4534	0.4532	0.4572	0.4576
U5	0.4497	0.4497	0.4495	0.4490	0.4485	0.4507	0.4509
U6	0.4405	0.4404	0.4402	0.4397	0.4390	0.4392	0.4393
U7	0.4363	0.4362	0.4359	0.4353	0.4344	0.4329	0.4329
U8	0.4317	0.4317	0.4314	0.4308	0.4297	0.4276	0.4275
U9	0.4317	0.4316	0.4314	0.4307	0.4297	0.4275	0.4274

Table F.21 continued

INTEGRATED MOVEMENT AT SEGMENT CL (4 MINUTE READINGS)

VLE 2 LOAD NUMBER	AVG VW MOVEMENT INCHES	AVG VW MOVEMENT INCHES	AVG VW MOVEMENT INCHES	AVG VW MOVEMENT INCHES	AVG VW MOVEMENT INCHES
CL.ELEV.	0.55	-4.72	-9.96	-16.21	-24.71
L0	0.0000	0.0000	0.0000	0.0000	0.0000
L1	0.0000	0.0000	0.0000	0.0000	0.0001
L2	0.0000	0.0000	0.0000	0.0000	0.0001
L3	0.0000	0.0000	0.0000	0.0000	0.0002
L4	0.0039	0.0040	0.0040	0.0042	0.0052
L5	0.0086	0.0086	0.0087	0.0090	0.0106
L6	0.0131	0.0131	0.0133	0.0137	0.0159
L7	0.0176	0.0177	0.0178	0.0184	0.0211
L8	0.0174	0.0175	0.0177	0.0182	0.0216
L9	0.0170	0.0171	0.0173	0.0179	0.0219
L10	0.0160	0.0160	0.0163	0.0170	0.0219
L11	0.0214	0.0214	0.0216	0.0224	0.0272
L12	0.0263	0.0264	0.0266	0.0274	0.0325
L13	0.0313	0.0313	0.0316	0.0324	0.0377
L14	0.0363	0.0363	0.0365	0.0374	0.0431
L15	0.0360	0.0360	0.0362	0.0371	0.0431
L16	0.0461	0.0462	0.0464	0.0473	0.0535
L17	0.0561	0.0561	0.0563	0.0572	0.0638
L18	0.0560	0.0560	0.0562	0.0572	0.0639
L19	0.0659	0.0659	0.0661	0.0671	0.0740
L20	0.0709	0.0710	0.0712	0.0721	0.0791
L21	0.0760	0.0760	0.0762	0.0771	0.0843
L22	0.1157	0.1158	0.1160	0.1170	0.1245
L23	0.4616	0.4616	0.4618	0.4627	0.4690
L23A	0.4615	0.4615	0.4618	0.4626	0.4690
U1	0.4621	0.4621	0.4622	0.4628	0.4681
U2	0.4579	0.4579	0.4578	0.4579	0.4617
U3	0.4582	0.4582	0.4580	0.4580	0.4610
U4	0.4539	0.4538	0.4536	0.4533	0.4552
U5	0.4497	0.4496	0.4492	0.4487	0.4496
U6	0.4405	0.4403	0.4400	0.4393	0.4391
U7	0.4362	0.4360	0.4356	0.4349	0.4337
U8	0.4317	0.4315	0.4311	0.4303	0.4287
U9	0.4317	0.4315	0.4311	0.4302	0.4286

Table F.21 continued

AVERAGE SEGMENT SHEAR STRESS (4 MINUTE READINGS)

VLE 2 LOAD NUMBER CL.ELEV.	AVG VW SHEAR TSF 0.55	AVG VW SHEAR TSF -4.72	AVG VW SHEAR TSF -9.96	AVG VW SHEAR TSF -16.21	AVG VW SHEAR TSF -24.71
L0	-0.016	-0.016	-0.016	-0.016	-0.016
L1	-0.017	-0.012	-0.010	-0.012	0.037
L2	-0.015	-0.010	-0.006	-0.009	0.071
L3	-0.014	-0.008	0.001	0.000	0.135
L4	-0.013	-0.006	0.019	0.008	0.203
L5	-0.012	0.006	0.019	0.044	0.306
L6	-0.009	0.020	0.029	0.093	0.415
L7	-0.009	0.028	0.041	0.114	0.540
L8	-0.008	0.029	0.055	0.142	0.663
L9	-0.009	0.031	0.062	0.187	0.782
L10	-0.008	0.031	0.075	0.247	0.964
L11	-0.011	0.032	0.073	0.247	0.971
L12	-0.010	0.030	0.076	0.270	1.023
L13	-0.011	0.030	0.080	0.269	1.110
L14	-0.010	0.031	0.078	0.295	1.176
L15	-0.011	0.032	0.077	0.324	1.232
L16	-0.011	0.030	0.073	0.350	1.305
L17	-0.011	0.030	0.071	0.368	1.373
L18	-0.012	0.031	0.071	0.392	1.401
L19	-0.013	0.032	0.068	0.412	1.434
L20	-0.013	0.030	0.069	0.405	1.477
L21	-0.013	0.030	0.069	0.428	1.505
L22	-0.013	0.029	0.072	0.467	1.570
L23	-0.013	0.035	0.086	0.311	1.366
L23A	-0.012	0.034	0.084	0.316	1.366
U1	-0.021	0.009	0.033	0.284	1.195
U2	-0.029	-0.042	-0.001	0.185	0.979
U3	-0.037	-0.056	-0.028	0.168	0.860
U4	-0.043	-0.071	-0.051	0.087	0.673
U5	-0.047	-0.092	-0.073	0.032	0.471
U6	-0.054	-0.108	-0.070	-0.028	0.233
U7	-0.058	-0.121	-0.067	-0.090	0.012
U8	-0.059	-0.130	-0.082	-0.089	-0.073
U9	-0.059	-0.130	-0.083	-0.088	-0.077

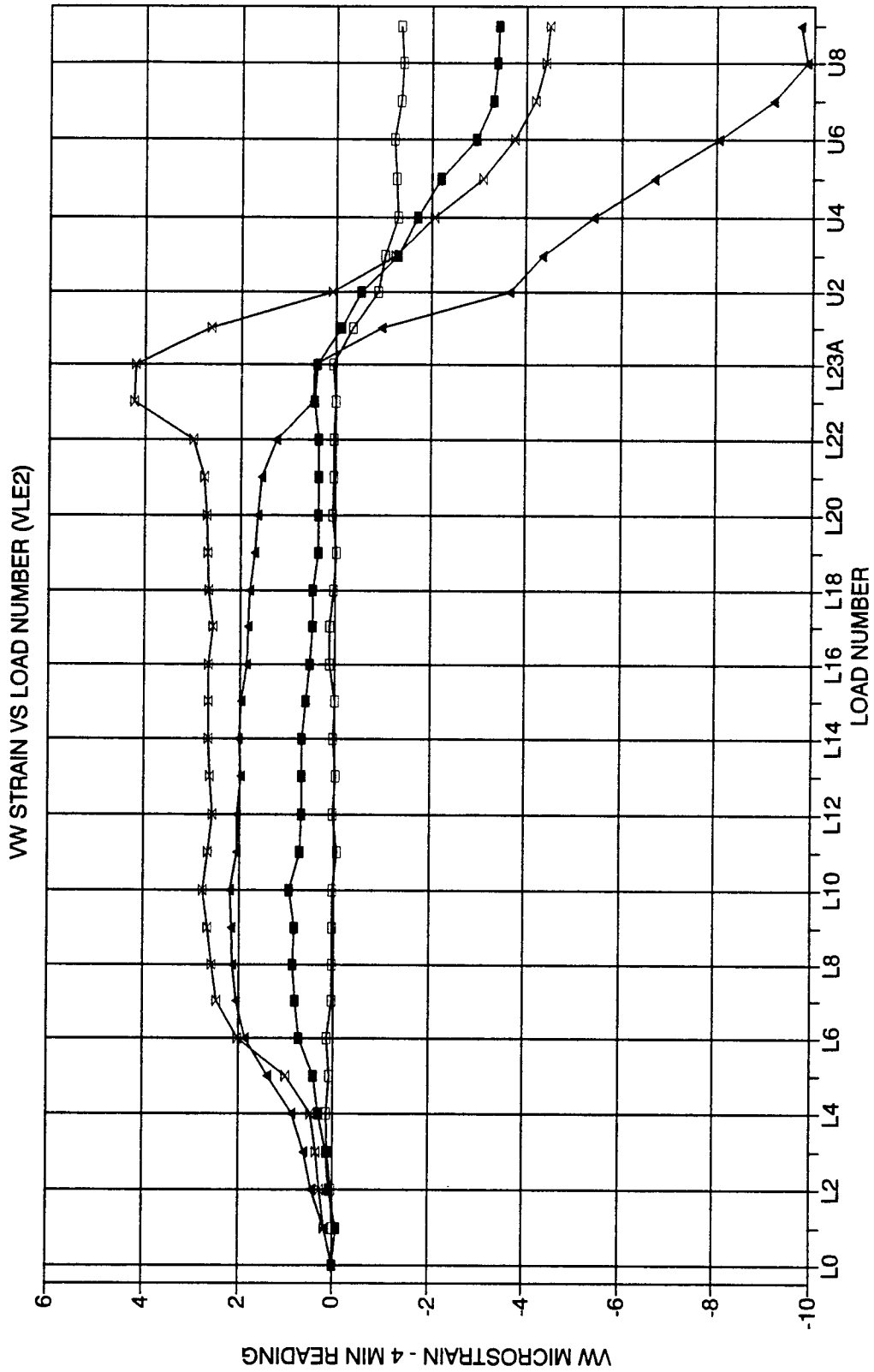

Figure F.107 Strain at Pile Top: Vilano East Load Test 2

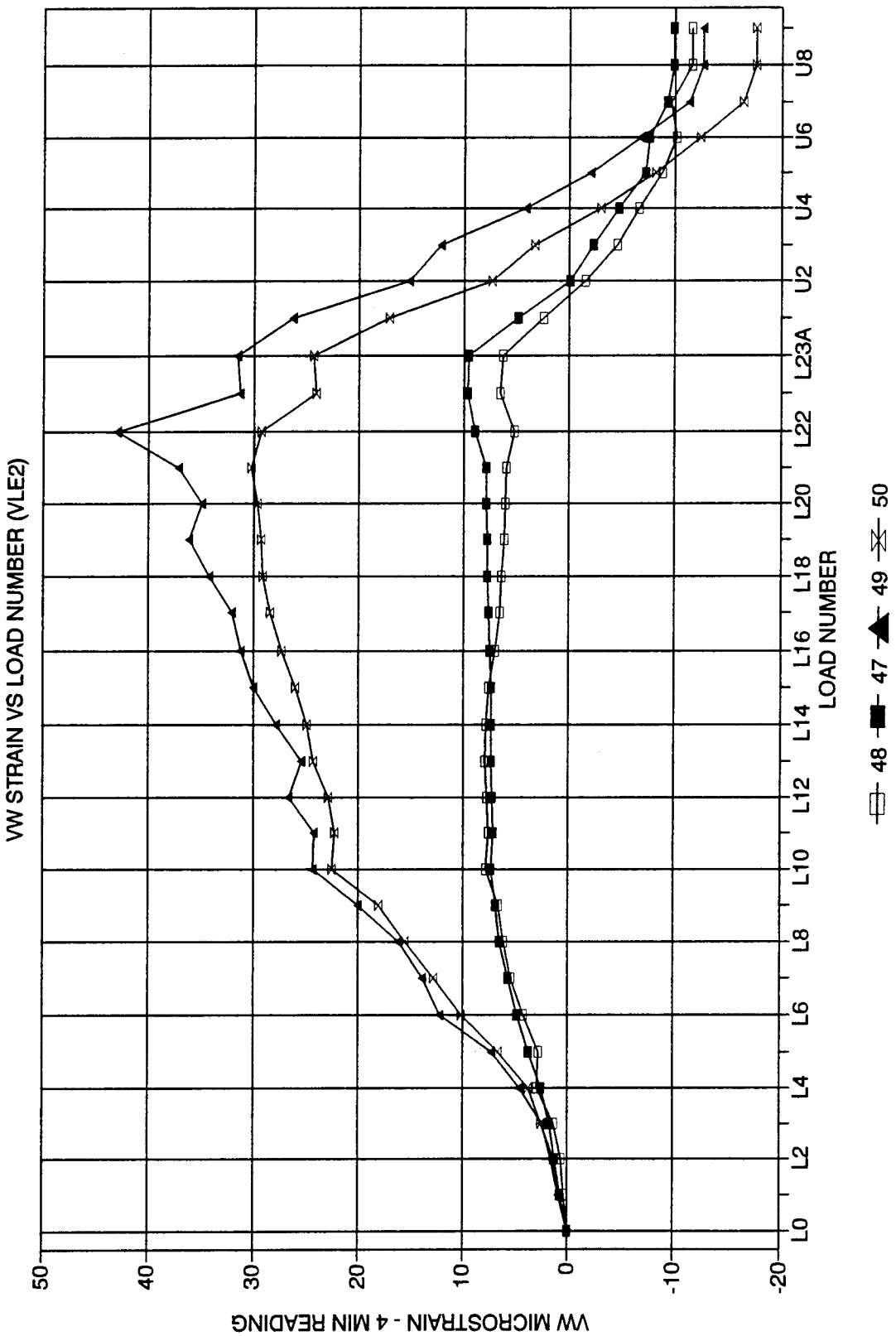

Figure F.108 Strain at Pile Middle: Vilano East Load Test 2

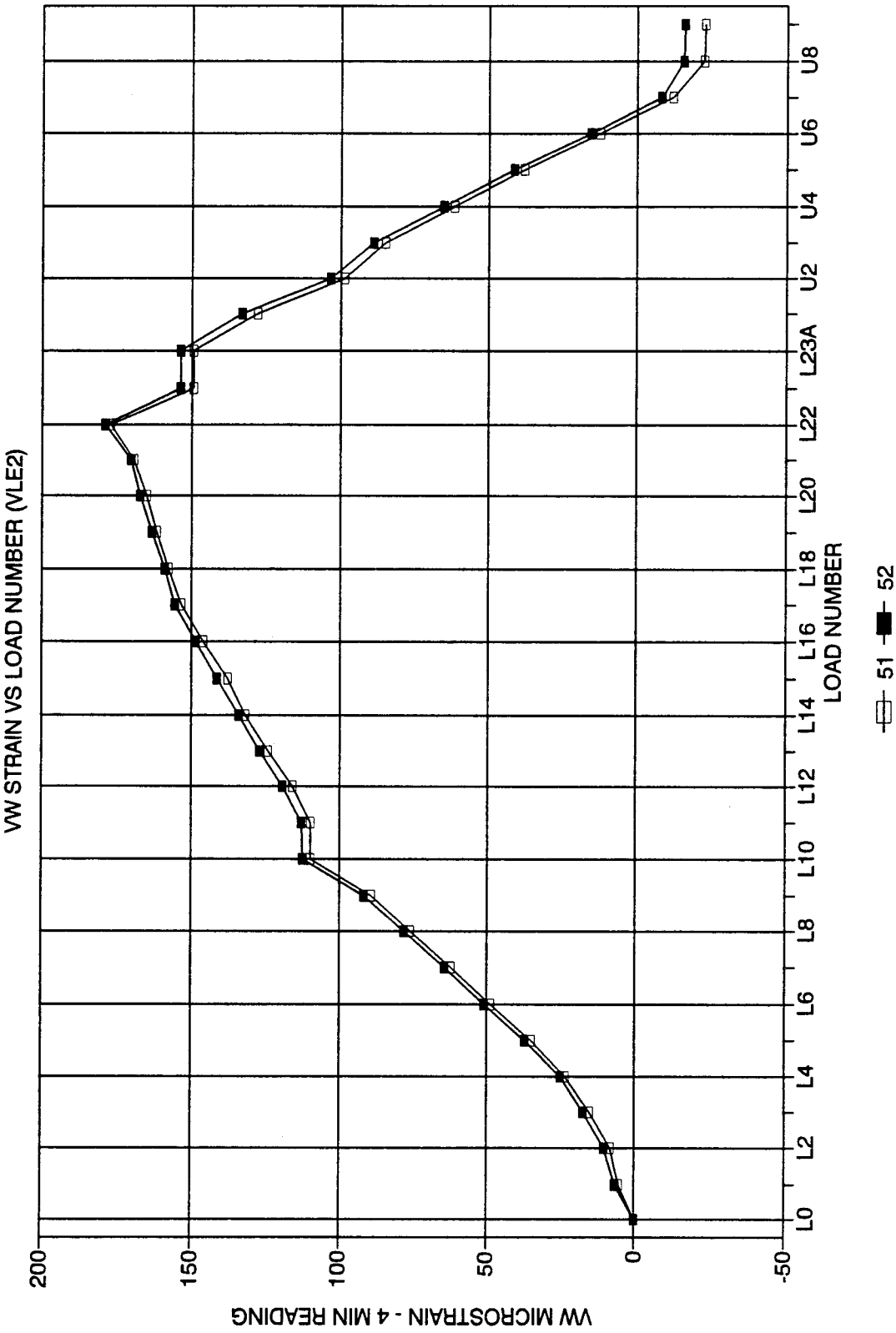

Figure F.109 Strain at Pile Bottom: Vilano East Load Test 2

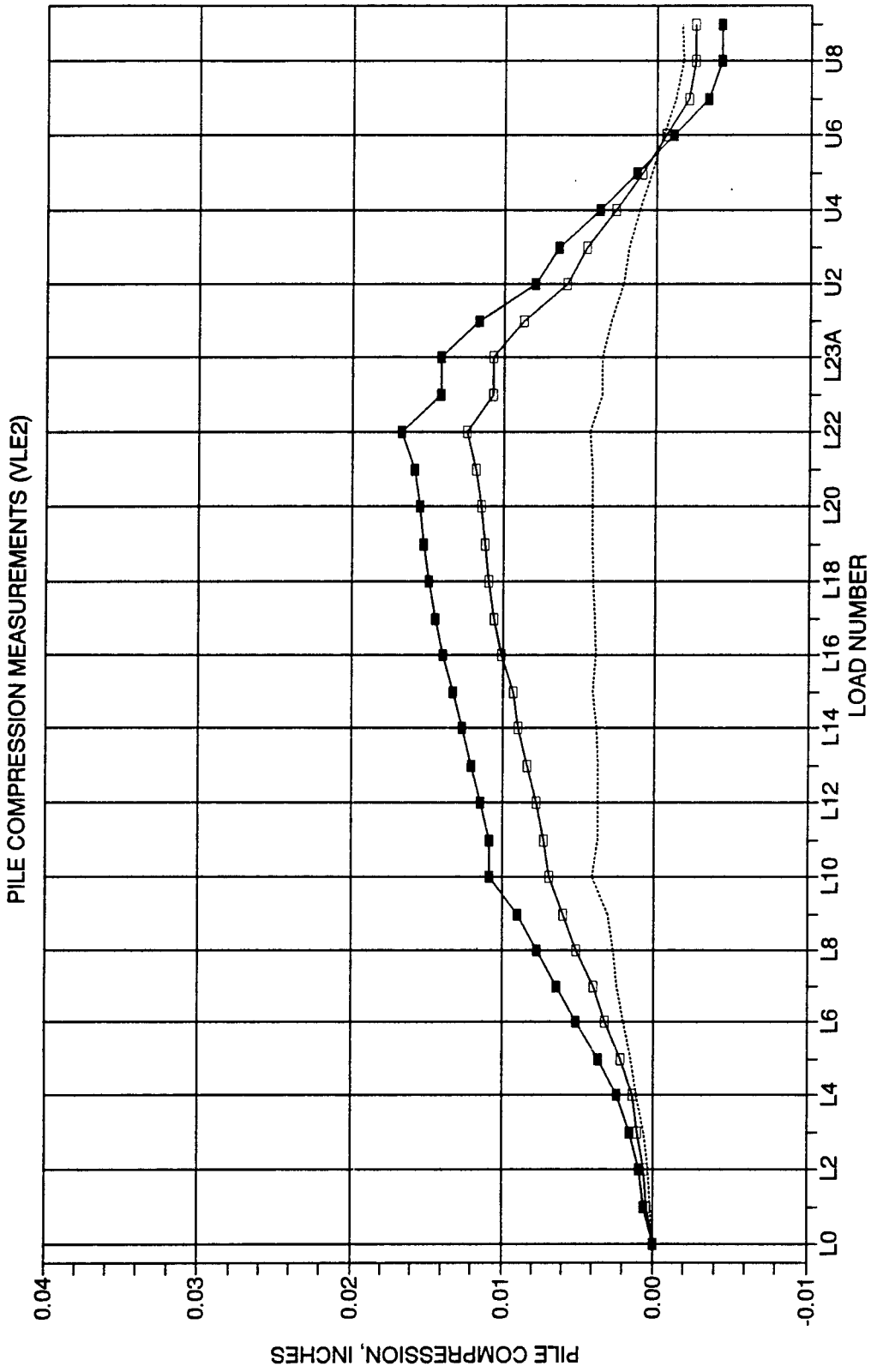

Figure F.110 Pile Compression Measurements: Vilano East Load Test 2

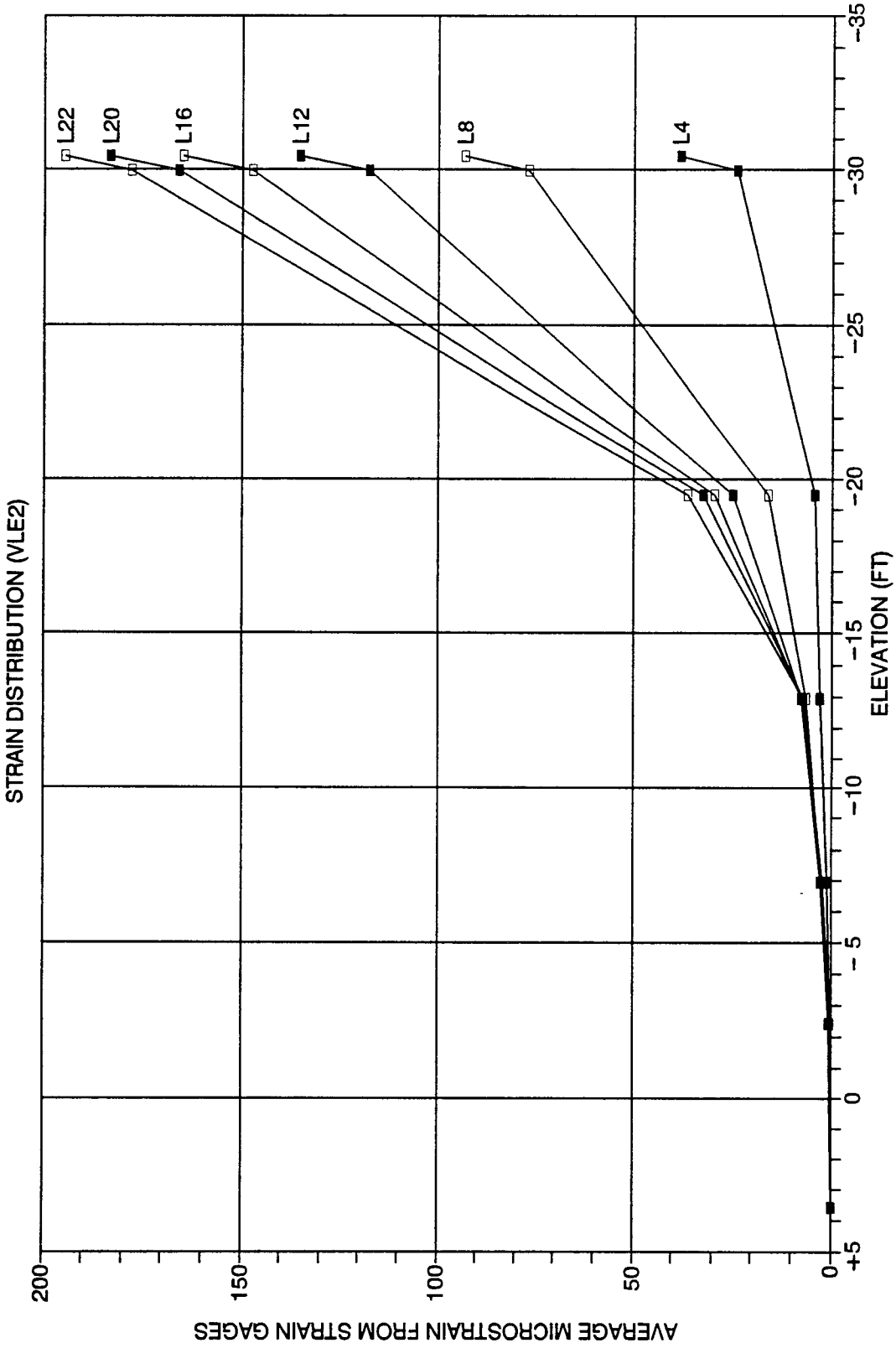

Figure F.111 Pile Strain Distribution: Vilano East Load Test 2

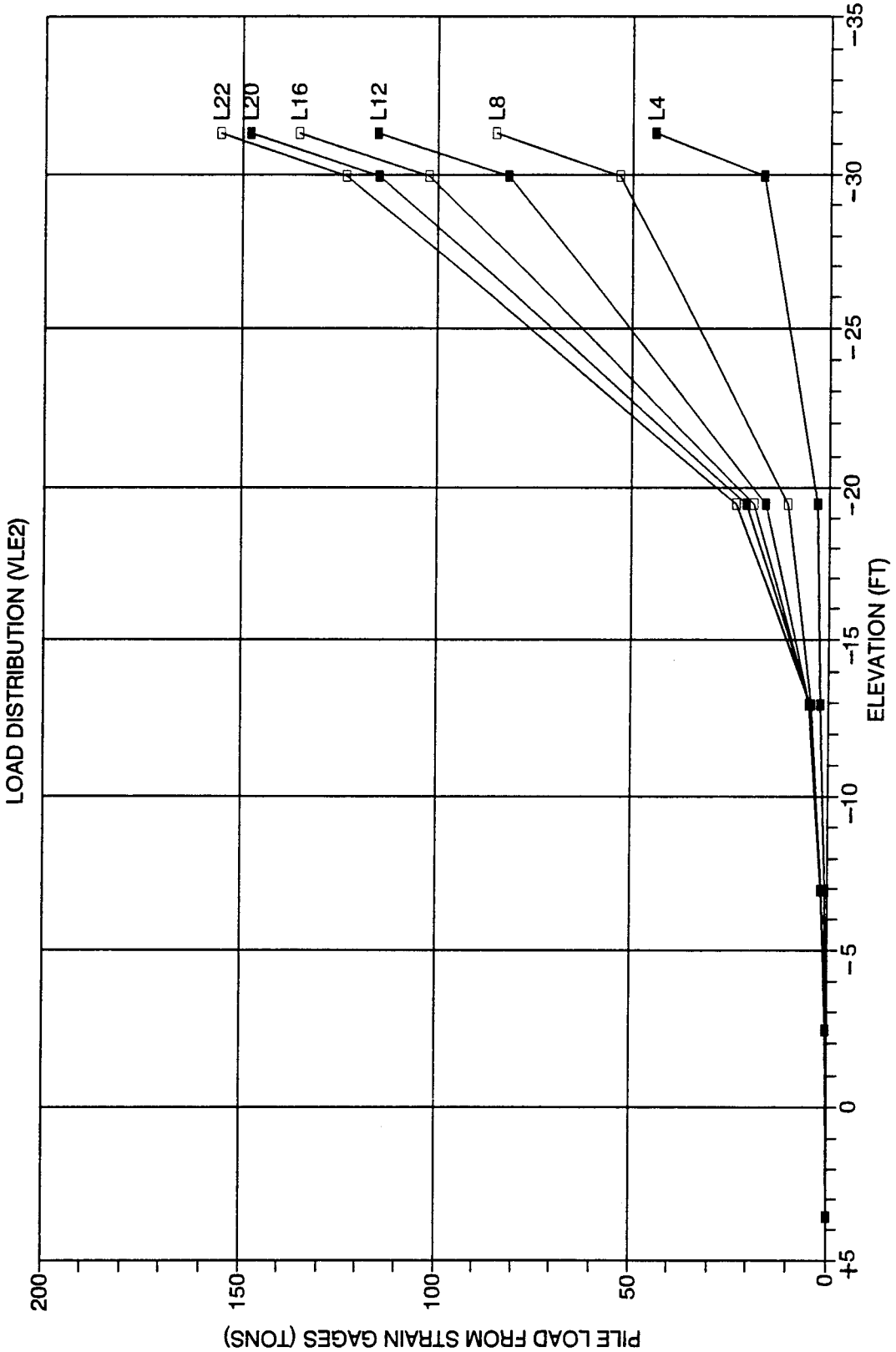

Figure F.112 Pile Load Distribution: Vilano East Load Test 2

Table F.22 Strain Analyses: Vilano East Load Test 3

VIBRATING WIRE INSTRUMENT READINGS - STRAIN

VLE 3 LOAD NUMBER	TIME	VW STRN FREQ^2 KHZ^2 53	VW STRN FREQ^2 KHZ^2 54	VW STRN FREQ^2 KHZ^2 46	VW STRN FREQ^2 KHZ^2 45	VW STRN FREQ^2 KHZ^2 48	VW STRN FREQ^2 KHZ^2 47	VW STRN FREQ^2 KHZ^2 49	VW STRN FREQ^2 KHZ^2 50	VW STRN FREQ^2 KHZ^2 51	VW STRN FREQ KHZ^2 52
L0	10:49:00	0.68515	0.68010	0.69502	0.61961	0.66757	0.64588	0.72394	0.64315	0.79086	0.72943
L1	10:52:58	0.68514	0.68010	0.69500	0.61946	0.66738	0.64582	0.72311	0.64287	0.78890	0.72782
L1	10:53:27	0.68515	0.68009	0.69501	0.61945	0.66738	0.64583	0.72312	0.64287	0.78889	0.72776
L1	10:54:28	0.68514	0.68009	0.69500	0.61946	0.66738	0.64585	0.72311	0.64287	0.78889	0.72776
L1	10:56:27	0.68514	0.68007	0.69500	0.61946	0.66740	0.64585	0.72312	0.64287	0.78887	0.72782
L2	10:58:04	0.68510	0.68007	0.69485	0.61927	0.66679	0.64555	0.72250	0.64214	0.78574	0.72547
L2	10:58:34	0.68510	0.68008	0.69486	0.61927	0.66680	0.64555	0.72247	0.64213	0.78571	0.72547
L2	10:59:34	0.68510	0.68008	0.69485	0.61927	0.66681	0.64554	0.72248	0.64213	0.78565	0.72545
L2	11:01:35	0.68510	0.68008	0.69485	0.61927	0.66678	0.64554	0.72248	0.64213	0.78564	0.72544
L3	11:03:23	0.68502	0.67993	0.69452	0.61907	0.66645	0.64509	0.72153	0.64102	0.78172	0.72163
L3	11:03:56	0.68502	0.67992	0.69452	0.61906	0.66644	0.64509	0.72150	0.64103	0.78172	0.72165
L3	11:04:53	0.68502	0.67994	0.69453	0.61907	0.66645	0.64509	0.72153	0.64103	0.78170	0.72163
L3	11:06:53	0.68504	0.67994	0.69453	0.61907	0.66645	0.64509	0.72151	0.64103	0.78169	0.72158
L4	11:08:33	0.68495	0.67971	0.69428	0.61869	0.66612	0.64452	0.72042	0.64004	0.77753	0.71766
L4	11:08:56	0.68495	0.67972	0.69427	0.61871	0.66613	0.64452	0.72042	0.64004	0.77750	0.71764
L4	11:09:54	0.68496	0.67971	0.69429	0.61870	0.66612	0.64453	0.72043	0.64004	0.77747	0.71765
L4	11:11:54	0.68496	0.67972	0.69428	0.61871	0.66614	0.64455	0.72040	0.64004	0.77747	0.71765
L5	11:13:24	0.68491	0.67955	0.69415	0.61854	0.66573	0.64424	0.71891	0.63917	0.77338	0.71365
L5	11:13:58	0.68493	0.67955	0.69415	0.61853	0.66574	0.64424	0.71890	0.63917	0.77335	0.71365
L5	11:14:56	0.68492	0.67955	0.69416	0.61854	0.66575	0.64425	0.71891	0.63918	0.77333	0.71361
L5	11:16:54	0.68493	0.67956	0.69416	0.61855	0.66576	0.64425	0.71892	0.63917	0.77329	0.71355
L6	11:18:24	0.68488	0.67946	0.69404	0.61841	0.66547	0.64385	0.71835	0.63827	0.76932	0.70963
L6	11:18:56	0.68489	0.67948	0.69406	0.61842	0.66542	0.64385	0.71833	0.63826	0.76932	0.70960
L6	11:19:55	0.68490	0.67947	0.69407	0.61842	0.66542	0.64387	0.71837	0.63826	0.76926	0.70953
L6	11:21:53	0.68491	0.67948	0.69406	0.61842	0.66542	0.64387	0.71834	0.63829	0.76921	0.70949
L7	11:23:21	0.68487	0.67941	0.69392	0.61822	0.66526	0.64369	0.71757	0.63734	0.76521	0.70551
L7	11:23:52	0.68488	0.67943	0.69395	0.61822	0.66529	0.64369	0.71758	0.63736	0.76525	0.70554
L7	11:24:54	0.68489	0.67942	0.69394	0.61823	0.66531	0.64369	0.71758	0.63736	0.76516	0.70545
L7	11:26:52	0.68492	0.67942	0.69393	0.61823	0.66533	0.64368	0.71759	0.63739	0.76516	0.70543
L8	11:28:26	0.68488	0.67939	0.69383	0.61800	0.66489	0.64327	0.71631	0.63643	0.76117	0.70142
L8	11:28:57	0.68490	0.67937	0.69383	0.61800	0.66489	0.64329	0.71630	0.63642	0.76110	0.70138
L8	11:29:58	0.68489	0.67939	0.69384	0.61801	0.66489	0.64329	0.71626	0.63642	0.76107	0.70137
L8	11:31:58	0.68490	0.67937	0.69385	0.61801	0.66491	0.64330	0.71627	0.63643	0.76098	0.70131
L9	11:33:30	0.68488	0.67932	0.69365	0.61790	0.66445	0.64294	0.71534	0.63556	0.75697	0.69730
L9	11:34:02	0.68488	0.67937	0.69365	0.61790	0.66447	0.64294	0.71532	0.63559	0.75702	0.69733
L9	11:35:02	0.68488	0.67932	0.69365	0.61789	0.66450	0.64294	0.71528	0.63558	0.75693	0.69727
L9	11:37:00	0.68491	0.67933	0.69366	0.61791	0.66448	0.64295	0.71529	0.63559	0.75693	0.69720
L10	11:38:22	0.68486	0.67934	0.69345	0.61774	0.66403	0.64245	0.71422	0.63450	0.75313	0.69335
L10	11:38:54	0.68488	0.67927	0.69347	0.61776	0.66393	0.64246	0.71421	0.63446	0.75290	0.69316
L10	11:40:02	0.68490	0.67935	0.69348	0.61778	0.66391	0.64245	0.71421	0.63446	0.75285	0.69309
L10	11:41:53	0.68490	0.67930	0.69347	0.61780	0.66392	0.64246	0.71419	0.63445	0.75278	0.69307
L11	11:43:26	0.68486	0.67929	0.69329	0.61761	0.66390	0.64213	0.71316	0.63355	0.74877	0.68921
L11	11:44:02	0.68487	0.67924	0.69330	0.61762	0.66390	0.64212	0.71325	0.63355	0.74875	0.68922

Table F.22 continued

VIBRATING WIRE INSTRUMENT READINGS - STRAIN

VLE 3 LOAD NUMBER	TIME	VW STRN FREQ^2 KHZ^2 53	VW STRN FREQ^2 KHZ^2 54	VW STRN FREQ^2 KHZ^2 46	VW STRN FREQ^2 KHZ^2 45	VW STRN FREQ^2 KHZ^2 48	VW STRN FREQ^2 KHZ^2 47	VW STRN FREQ^2 KHZ^2 49	VW STRN FREQ^2 KHZ^2 50	VW STRN FREQ^2 KHZ^2 51	VW STRN FREQ KHZ^2 52
L11	11:44:58	0.68490	0.67924	0.69331	0.61765	0.66392	0.64213	0.71314	0.63356	0.74861	0.68905
L11	11:46:57	0.68490	0.67926	0.69332	0.61767	0.66392	0.64213	0.71322	0.63355	0.74865	0.68910
L12	11:48:40	0.68489	0.67917	0.69317	0.61748	0.66354	0.64185	0.71155	0.63250	0.74468	0.68515
L12	11:49:10	0.68488	0.67918	0.69318	0.61750	0.66356	0.64187	0.71175	0.63254	0.74477	0.68511
L12	11:50:10	0.68490	0.67919	0.69320	0.61753	0.66359	0.64190	0.71182	0.63252	0.74453	0.68500
L12	11:52:13	0.68490	0.67918	0.69319	0.61754	0.66358	0.64186	0.71177	0.63254	0.74455	0.68499
L13	11:53:56	0.68490	0.67913	0.69303	0.61742	0.66332	0.64155	0.71093	0.63148	0.74061	0.68116
L13	11:54:20	0.68491	0.67917	0.69307	0.61746	0.66331	0.64159	0.71102	0.63154	0.74033	0.68090
L13	11:55:16	0.68492	0.67916	0.69311	0.61749	0.66338	0.64164	0.71115	0.63166	0.74073	0.68103
L13	11:57:16	0.68493	0.67918	0.69310	0.61750	0.66335	0.64161	0.71097	0.63148	0.74035	0.68086
L14	11:59:01	0.68490	0.67916	0.69298	0.61739	0.66314	0.64146	0.70988	0.63068	0.73643	0.67673
L14	11:59:36	0.68490	0.67917	0.69297	0.61743	0.66313	0.64145	0.70982	0.63065	0.73616	0.67664
L14	12:00:32	0.68490	0.67917	0.69300	0.61746	0.66320	0.64149	0.71003	0.63069	0.73648	0.67716
L14	12:02:31	0.68491	0.67927	0.69302	0.61750	0.66326	0.64149	0.71008	0.63071	0.73634	0.67696
L15	12:03:42	0.68489	0.67919	0.69295	0.61741	0.66316	0.64142	0.70939	0.63032	0.73442	0.67478
L15	12:04:14	0.68488	0.67920	0.69296	0.61744	0.66314	0.64143	0.70933	0.63032	0.73433	0.67476
L15	12:05:17	0.68489	0.67921	0.69300	0.61749	0.66320	0.64145	0.70944	0.63046	0.73453	0.67482
L15	12:07:12	0.68492	0.67921	0.69300	0.61747	0.66318	0.64145	0.70936	0.63038	0.73439	0.67482
L16	12:08:40	0.68488	0.67922	0.69297	0.61743	0.66312	0.64139	0.70836	0.62996	0.73244	0.67273
L16	12:09:12	0.68489	0.67921	0.69296	0.61744	0.66314	0.64140	0.70837	0.62999	0.73243	0.67249
L16	12:10:10	0.68491	0.67922	0.69297	0.61745	0.66317	0.64140	0.70835	0.62995	0.73220	0.67229
L16	12:12:12	0.68490	0.67924	0.69297	0.61746	0.66317	0.64141	0.70834	0.63003	0.73225	0.67238
L17	12:13:42	0.68488	0.67923	0.69294	0.61739	0.66310	0.64132	0.70791	0.62991	0.73042	0.67055
L17	12:14:06	0.68489	0.67923	0.69295	0.61740	0.66309	0.64128	0.70803	0.63001	0.73050	0.67093
L17	12:15:09	0.68491	0.67922	0.69300	0.61742	0.66310	0.64123	0.70791	0.63000	0.73017	0.67055
L17	12:17:12	0.68490	0.67923	0.69297	0.61743	0.66318	0.64130	0.70801	0.63005	0.73008	0.67039
L18	12:18:32	0.68489	0.67930	0.69294	0.61735	0.66310	0.64119	0.70880	0.63011	0.72843	0.66825
L18	12:19:02	0.68489	0.67921	0.69293	0.61733	0.66309	0.64125	0.70798	0.63030	0.72849	0.66813
L18	12:20:04	0.68490	0.67931	0.69297	0.61733	0.66303	0.64122	0.70847	0.63056	0.72839	0.66827
L18	12:22:02	0.68491	0.67921	0.69296	0.61733	0.66297	0.64119	0.70949	0.63074	0.72843	0.66857
L19	12:23:44	0.68491	0.67918	0.69290	0.61726	0.66277	0.64103	0.70979	0.63094	0.72763	0.66823
L19	12:24:08	0.68488	0.67916	0.69282	0.61718	0.66281	0.64080	0.71031	0.63069	0.73194	0.67286
L19A	12:25:09	0.68480	0.67918	0.69280	0.61706	0.66264	0.64062	0.71002	0.63067	0.73505	0.67528
L19A	12:26:09	0.68485	0.67921	0.69293	0.61708	0.66271	0.64075	0.71077	0.63099	0.73601	0.67621
L19A	12:27:10	0.68487	0.67922	0.69294	0.61707	0.66269	0.64074	0.71057	0.63091	0.73576	0.67591
L19B	12:31:12	0.68489	0.67925	0.69298	0.61709	0.66276	0.64081	0.71077	0.63102	0.73581	0.67609
U1	12:35:33	0.68506	0.67936	0.69353	0.61773	0.66405	0.64212	0.71247	0.63350	0.74252	0.68253
U2	12:39:16	0.68516	0.67940	0.69391	0.61806	0.66489	0.64305	0.71476	0.63506	0.74737	0.68728
U3	12:43:00	0.68529	0.67966	0.69475	0.61891	0.66640	0.64461	0.71813	0.63833	0.75717	0.69728
U4	12:46:48	0.68532	0.67995	0.69504	0.61922	0.66679	0.64534	0.71965	0.63972	0.76218	0.70229
U5	12:50:48	0.68533	0.68009	0.69532	0.61943	0.66758	0.64585	0.72116	0.64112	0.76779	0.70784
U6	12:55:01	0.68533	0.68003	0.69557	0.61977	0.66788	0.64638	0.72291	0.64279	0.77589	0.71592
U7	12:58:53	0.68535	0.68016	0.69583	0.61995	0.66824	0.64677	0.72449	0.64398	0.78355	0.72335

Table F.22 continued

VIBRATING WIRE INSTRUMENT READINGS - STRAIN

VLE 3 LOAD NUMBER	TIME	VW STRN FREQ^2 KHZ^2 53	VW STRN FREQ^2 KHZ^2 54	VW STRN FREQ^2 KHZ^2 46	VW STRN FREQ^2 KHZ^2 45	VW STRN FREQ^2 KHZ^2 48	VW STRN FREQ^2 KHZ^2 47	VW STRN FREQ^2 KHZ^2 49	VW STRN FREQ^2 KHZ^2 50	VW STRN FREQ^2 KHZ^2 51	VW STRN FREQ KHZ^2 52
U8	13:02:34	0.68538	0.68026	0.69612	0.62027	0.66881	0.64739	0.72600	0.64532	0.79206	0.73205
U8A	13:05:32	0.68540	0.68027	0.69612	0.62029	0.66883	0.64739	0.72606	0.64535	0.79219	0.73218
U8B	13:09:28	0.68537	0.68026	0.69611	0.62029	0.66882	0.64737	0.72604	0.64535	0.79231	0.73225

Table F.22 continued

VIBRATING WIRE INSTRUMENT READINGS - TEMPERATURE

VLE 3 LOAD NUMBER	TIME	VW STRN TEMP DEG C 53	VW STRN TEMP DEG C 54	VW STRN TEMP DEG C 46	VW STRN TEMP DEG C 45	VW STRN TEMP DEG C 48	VW STRN TEMP DEG C 47	VW STRN TEMP DEG C 49	VW STRN TEMP DEG C 50	VW STRN TEMP DEG C 51	VW STRN TEMP DEG C 52
L0	10:49:00	21.140	21.263	20.433	20.433	21.636	21.511	22.670	22.607	22.481	23.019
L1	10:52:58	21.138	21.231	20.432	20.462	21.634	21.510	22.700	22.606	22.479	23.017
L1	10:53:27	21.138	21.231	20.432	20.432	21.634	21.510	22.700	22.637	22.479	23.017
L1	10:54:28	21.137	21.261	20.430	20.461	21.633	21.508	22.667	22.604	22.478	23.048
L1	10:56:27	21.137	21.261	20.461	20.430	21.633	21.508	22.667	22.604	22.478	23.016
L2	10:58:04	21.136	21.229	20.429	20.429	21.632	21.507	22.698	22.603	22.477	23.015
L2	10:58:34	21.136	21.229	20.429	20.429	21.632	21.507	22.698	22.603	22.477	23.047
L2	10:59:34	21.136	21.260	20.429	20.429	21.632	21.507	22.666	22.603	22.477	23.047
L2	11:01:35	21.135	21.228	20.428	20.428	21.631	21.507	22.666	22.602	22.508	23.046
L3	11:03:23	21.132	21.256	20.426	20.456	21.628	21.535	22.663	22.600	22.473	23.011
L3	11:03:56	21.132	21.256	20.426	20.456	21.628	21.504	22.663	22.600	22.473	23.043
L3	11:04:53	21.132	21.225	20.426	20.426	21.628	21.504	22.663	22.600	22.473	23.043
L3	11:06:53	21.130	21.223	20.424	20.454	21.626	21.533	22.660	22.597	22.471	23.073
L4	11:08:33	21.130	21.254	20.424	20.424	21.626	21.502	22.660	22.597	22.469	23.039
L4	11:08:56	21.128	21.221	20.422	20.453	21.624	21.500	22.690	22.595	22.469	23.039
L4	11:09:54	21.128	21.221	20.422	20.453	21.624	21.500	22.659	22.595	22.469	23.039
L4	11:11:54	21.127	21.220	20.421	20.451	21.623	21.530	22.657	22.625	22.468	23.038
L5	11:13:24	21.127	21.251	20.421	20.482	21.623	21.499	22.657	22.625	22.499	23.038
L5	11:13:58	21.127	21.220	20.421	20.451	21.623	21.530	22.657	22.594	22.468	23.038
L5	11:14:56	21.126	21.219	20.420	20.450	21.622	21.528	22.688	22.625	22.498	23.036
L5	11:16:54	21.126	21.219	20.420	20.450	21.622	21.497	22.688	22.625	22.498	23.036
L6	11:18:24	21.125	21.218	20.419	20.449	21.621	21.528	22.655	22.623	22.466	23.035
L6	11:18:56	21.125	21.218	20.419	20.449	21.621	21.528	22.655	22.623	22.466	23.035
L6	11:19:55	21.125	21.249	20.419	20.449	21.621	21.528	22.687	22.623	22.466	23.035
L6	11:21:53	21.125	21.217	20.449	20.449	21.620	21.496	22.654	22.623	22.465	23.035
L7	11:23:21	21.125	21.248	20.418	20.479	21.617	21.493	22.652	22.652	22.462	23.032
L7	11:23:52	21.122	21.214	20.446	20.446	21.617	21.524	22.683	22.620	22.462	23.032
L7	11:24:54	21.122	21.214	20.416	20.477	21.617	21.524	22.683	22.620	22.462	23.064
L7	11:26:52	21.153	21.245	20.416	20.446	21.618	21.524	22.715	22.620	22.462	23.032
L8	11:28:26	21.122	21.276	20.446	20.446	21.618	21.524	22.683	22.620	22.494	23.032
L8	11:28:57	21.122	21.245	20.416	20.446	21.618	21.524	22.683	22.620	22.462	23.032
L8	11:29:58	21.122	21.245	20.446	20.446	21.617	21.524	22.683	22.620	22.462	23.032
L8	11:31:58	21.122	21.245	20.446	20.446	21.617	21.524	22.683	22.652	22.494	23.030
L9	11:33:30	21.120	21.274	20.444	20.444	21.646	21.522	22.681	22.618	22.460	23.062
L9	11:34:02	21.120	21.243	20.444	20.444	21.615	21.522	22.713	22.618	22.460	23.030
L9	11:35:02	21.120	21.243	20.444	20.444	21.615	21.522	22.679	22.616	22.458	23.060
L9	11:37:00	21.118	21.273	20.412	20.442	21.614	21.520	22.648	22.616	22.458	23.028
L10	11:38:22	21.119	21.242	20.443	20.443	21.646	21.521	22.680	22.617	22.491	23.029
L10	11:38:54	21.119	21.242	20.413	20.443	21.614	21.521	22.680	22.617	22.491	23.029
L10	11:40:02	21.119	21.273	20.413	20.443	21.646	21.521	22.680	22.617	22.459	23.029
L10	11:41:53	21.117	21.241	20.442	20.442	21.613	21.520	22.679	22.615	22.458	23.027
L11	11:43:26	21.148	21.241	20.442	20.442	21.613	21.520	22.679	22.615	22.458	23.027
L11	11:44:02	21.116	21.240	20.410	20.441	21.612	21.550	22.709	22.646	22.457	23.026

Table F.22 continued

VIBRATING WIRE INSTRUMENT READINGS - TEMPERATURE

VLE 3 LOAD NUMBER	TIME	VW STRN TEMP DEG C 53	VW STRN TEMP DEG C 54	VW STRN TEMP DEG C 46	VW STRN TEMP DEG C 45	VW STRN TEMP DEG C 48	VW STRN TEMP DEG C 47	VW STRN TEMP DEG C 49	VW STRN TEMP DEG C 50	VW STRN TEMP DEG C 51	VW STRN TEMP DEG C 52
L11	11:44:58	21.116	21.240	20.441	20.441	21.612	21.519	22.677	22.614	22.457	23.026
L11	11:46:57	21.115	21.239	20.440	20.470	21.611	21.518	22.676	22.613	22.456	23.025
L12	11:48:40	21.115	21.239	20.440	20.440	21.611	21.549	22.676	22.645	22.456	23.025
L12	11:49:10	21.115	21.270	20.440	20.440	21.611	21.518	22.676	22.613	22.487	23.025
L12	11:50:10	21.145	21.238	20.439	20.439	21.610	21.517	22.676	22.613	22.455	23.024
L12	11:52:13	21.115	21.269	20.439	20.439	21.610	21.517	22.676	22.613	22.455	23.024
L13	11:53:56	21.114	21.268	20.438	20.438	21.609	21.516	22.675	22.643	22.454	23.055
L13	11:54:20	21.114	21.238	20.438	20.438	21.609	21.516	22.675	22.612	22.454	23.055
L13	11:55:16	21.114	21.238	20.438	20.469	21.641	21.516	22.675	22.612	22.486	23.024
L13	11:57:16	21.144	21.268	20.438	20.438	21.609	21.516	22.706	22.611	22.485	23.055
L14	11:59:01	21.113	21.237	20.437	20.468	21.609	21.515	22.674	22.611	22.485	23.023
L14	11:59:36	21.144	21.237	20.437	20.468	21.609	21.515	22.674	22.611	22.485	23.023
L14	12:00:32	21.144	21.237	20.437	20.437	21.640	21.515	22.706	22.611	22.485	23.023
L14	12:02:31	21.142	21.234	20.466	20.435	21.606	21.513	22.672	22.608	22.482	23.020
L15	12:03:42	21.142	21.265	20.435	20.435	21.606	21.513	22.672	22.608	22.482	23.020
L15	12:04:14	21.142	21.234	20.435	20.435	21.637	21.513	22.672	22.608	22.482	23.020
L15	12:05:17	21.142	21.265	20.435	20.466	21.606	21.513	22.672	22.609	22.482	23.052
L15	12:07:12	21.142	21.234	20.435	20.466	21.606	21.513	22.672	22.609	22.482	23.021
L16	12:08:40	21.142	21.265	20.435	20.466	21.606	21.513	22.672	22.640	22.483	23.021
L16	12:09:12	21.142	21.235	20.466	20.435	21.638	21.513	22.672	22.640	22.483	23.021
L16	12:10:10	21.142	21.235	20.435	20.466	21.638	21.513	22.704	22.609	22.483	23.021
L16	12:12:12	21.142	21.235	20.436	20.436	21.607	21.545	22.704	22.640	22.451	23.021
L17	12:13:42	21.173	21.235	20.436	20.436	21.607	21.513	22.672	22.609	22.483	23.021
L17	12:14:06	21.142	21.235	20.436	20.436	21.638	21.513	22.672	22.609	22.483	23.021
L17	12:15:09	21.142	21.235	20.436	20.466	21.638	21.513	22.672	22.609	22.483	23.021
L17	12:17:12	21.140	21.264	20.434	20.434	21.636	21.512	22.670	22.639	22.481	23.019
L18	12:18:32	21.140	21.233	20.434	20.434	21.636	21.512	22.670	22.607	22.481	23.019
L18	12:19:02	21.140	21.233	20.464	20.434	21.636	21.512	22.671	22.607	22.481	23.051
L18	12:20:04	21.141	21.264	20.434	20.434	21.636	21.512	22.671	22.607	22.481	23.051
L18	12:22:02	21.141	21.233	20.434	20.435	21.637	21.512	22.671	22.608	22.482	23.020
L19	12:23:44	21.141	21.265	20.435	20.435	21.637	21.512	22.671	22.608	22.513	23.051
L19	12:24:08	21.141	21.234	20.435	20.465	21.606	21.512	22.671	22.608	22.482	23.020
L19A	12:25:09	21.139	21.263	20.433	20.433	21.635	21.511	22.669	22.638	22.480	23.049
L19A	12:26:09	21.139	21.232	20.433	20.463	21.635	21.511	22.701	22.606	22.480	23.049
L19A	12:27:10	21.139	21.232	20.433	20.433	21.635	21.511	22.669	22.606	22.480	23.049
L19B	12:31:12	21.137	21.260	20.461	20.430	21.601	21.508	22.698	22.603	22.477	23.015
U1	12:35:33	21.138	21.261	20.432	20.462	21.602	21.509	22.668	22.605	22.510	23.016
U2	12:39:16	21.168	21.260	20.430	20.430	21.632	21.508	22.698	22.603	22.477	23.015
U3	12:43:00	21.135	21.259	20.459	20.429	21.631	21.538	22.665	22.602	22.476	23.013
U4	12:46:48	21.165	21.227	20.428	20.459	21.599	21.506	22.664	22.601	22.475	23.013
U5	12:50:48	21.134	21.258	20.458	20.428	21.599	21.505	22.664	22.601	22.474	23.012
U6	12:55:01	21.134	21.257	20.427	20.427	21.598	21.505	22.663	22.600	22.474	23.012
U7	12:58:53	21.166	21.259	20.429	20.460	21.600	21.507	22.633	22.602	22.444	23.013

Table F.22 continued

VIBRATING WIRE INSTRUMENT READINGS - TEMPERATURE

VLE 3 LOAD NUMBER	TIME	VW STRN TEMP DEG C 53	VW STRN TEMP DEG C 54	VW STRN TEMP DEG C 46	VW STRN TEMP DEG C 45	VW STRN TEMP DEG C 48	VW STRN TEMP DEG C 47	VW STRN TEMP DEG C 49	VW STRN TEMP DEG C 50	VW STRN TEMP DEG C 51	VW STRN TEMP DEG C 52
U8	13:02:34	21.135	21.258	20.428	20.428	21.599	21.506	22.664	22.601	22.475	23.045
U8A	13:05:32	21.136	21.260	20.460	20.460	21.601	21.508	22.666	22.603	22.445	23.014
U8B	13:09:28	21.135	21.289	20.429	20.429	21.599	21.506	22.633	22.633	22.444	23.013

Table F.22 continued

VIBRATING WIRE CALCULATED STRAIN INCREMENTS

VLE 3 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 53	VW STRN MICRO STRAIN 54	VW STRN MICRO STRAIN 46	VW STRN MICRO STRAIN 45	VW STRN MICRO STRAIN 48	VW STRN MICRO STRAIN 47	VW STRN MICRO STRAIN 49	VW STRN MICRO STRAIN 50	VW STRN MICRO STRAIN 51	VW STRN MICRO STRAIN 52
L0	10:49:00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
L1	10:52:58	0.0	0.0	0.1	0.5	0.6	0.2	2.7	0.9	6.5	5.3
L1	10:53:27	0.0	0.1	0.0	0.5	0.6	0.2	2.7	0.9	6.5	5.5
L1	10:54:28	0.0	0.0	0.1	0.5	0.6	0.1	2.7	0.9	6.5	5.5
L1	10:56:27	0.0	0.1	0.0	0.5	0.6	0.1	2.7	0.9	6.6	5.3
L2	10:58:04	0.2	0.1	0.6	1.1	2.6	1.1	4.7	3.3	16.9	13.1
L2	10:58:34	0.2	0.1	0.5	1.1	2.5	1.1	4.8	3.4	17.0	13.0
L2	10:59:34	0.2	0.1	0.6	1.1	2.5	1.1	4.8	3.4	17.2	13.1
L2	11:01:35	0.2	0.1	0.6	1.1	2.6	1.1	4.8	3.4	17.2	13.1
L3	11:03:23	0.4	0.6	1.7	1.8	3.7	2.6	8.0	7.0	30.2	25.8
L3	11:03:56	0.4	0.6	1.7	1.8	3.7	2.6	8.1	7.0	30.2	25.7
L3	11:04:53	0.4	0.6	1.6	1.8	3.7	2.6	8.0	7.0	30.3	25.7
L3	11:06:53	0.4	0.6	1.6	1.8	3.7	2.6	8.0	7.0	30.3	25.9
L4	11:08:33	0.7	1.3	2.5	3.1	4.8	4.5	11.6	10.3	44.1	38.9
L4	11:08:56	0.7	1.3	2.5	2.9	4.8	4.5	11.6	10.3	44.2	38.9
L4	11:09:54	0.6	1.3	2.4	3.0	4.8	4.5	11.6	10.3	44.3	38.9
L4	11:11:54	0.6	1.3	2.5	3.0	4.7	4.4	11.7	10.3	44.3	38.9
L5	11:13:24	0.8	1.8	2.9	3.5	6.1	5.4	16.6	13.1	57.7	52.1
L5	11:13:58	0.7	1.9	2.9	3.5	6.1	5.4	16.7	13.2	57.9	52.1
L5	11:14:56	0.8	1.9	2.9	3.5	6.0	5.4	16.6	13.1	57.9	52.2
L5	11:16:54	0.7	1.8	2.9	3.5	6.0	5.4	16.6	13.1	58.0	52.4
L6	11:18:24	0.9	2.2	3.3	3.9	7.0	6.7	18.5	16.1	71.2	65.4
L6	11:18:56	0.9	2.1	3.2	3.9	7.1	6.7	18.6	16.1	71.2	65.5
L6	11:19:55	0.8	2.1	3.2	3.9	7.1	6.6	18.4	16.1	71.4	65.7
L6	11:21:53	0.8	2.1	3.2	3.9	7.1	6.7	18.5	16.0	71.6	65.9
L7	11:23:21	0.9	2.3	3.7	4.5	7.7	7.3	21.1	19.1	84.8	79.0
L7	11:23:52	0.9	2.3	3.5	4.6	7.6	7.2	21.0	19.1	84.6	78.9
L7	11:24:54	0.9	2.3	3.6	4.5	7.5	7.2	21.0	19.1	84.9	79.2
L7	11:26:52	0.7	2.3	3.6	4.5	7.4	7.3	20.9	19.0	84.9	79.3
L8	11:28:26	0.9	2.3	3.9	5.3	8.9	8.6	25.2	22.2	98.1	92.5
L8	11:28:57	0.8	2.4	4.0	5.3	8.9	8.5	25.2	22.2	98.4	92.7
L8	11:29:58	0.9	2.4	3.9	5.3	8.9	8.5	25.4	22.2	98.5	92.7
L8	11:31:58	0.8	2.4	3.8	5.3	8.8	8.5	25.3	22.1	98.7	92.9
L9	11:33:30	0.9	2.6	4.5	5.6	10.3	9.7	28.4	25.1	112.0	106.1
L9	11:34:02	0.9	2.4	4.5	5.6	10.3	9.7	28.4	25.0	111.8	106.0
L9	11:35:02	0.9	2.6	4.5	5.7	10.2	9.7	28.6	25.0	112.1	106.2
L9	11:37:00	0.8	2.5	4.5	5.6	10.2	9.7	28.6	25.0	112.1	106.5
L10	11:38:22	1.0	2.5	5.2	6.2	11.7	11.3	32.1	28.6	124.6	119.2
L10	11:38:54	0.9	2.8	5.1	6.1	12.1	11.3	32.1	28.7	125.4	119.8
L10	11:40:02	0.9	2.5	5.1	6.0	12.1	11.3	32.1	28.7	125.6	120.1
L10	11:41:53	0.9	2.7	5.1	6.0	12.1	11.3	32.2	28.7	125.8	120.1
L11	11:43:26	0.9	2.7	5.7	6.6	12.2	12.4	35.6	31.7	139.1	132.9
L11	11:44:02	1.0	2.9	5.7	6.6	12.2	12.4	35.3	31.7	139.2	132.8

Table F.22 continued

VIBRATING WIRE CALCULATED STRAIN INCREMENTS

VLE 3 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 53	VW STRN MICRO STRAIN 54	VW STRN MICRO STRAIN 46	VW STRN MICRO STRAIN 45	VW STRN MICRO STRAIN 48	VW STRN MICRO STRAIN 47	VW STRN MICRO STRAIN 49	VW STRN MICRO STRAIN 50	VW STRN MICRO STRAIN 51	VW STRN MICRO STRAIN 52
L11	11:44:58	0.9	2.9	5.6	6.5	12.1	12.4	35.7	31.7	139.6	133.4
L11	11:46:57	0.9	2.8	5.6	6.4	12.1	12.4	35.4	31.7	139.5	133.2
L12	11:48:40	0.9	3.1	6.1	7.0	13.3	13.3	40.9	35.1	152.6	146.3
L12	11:49:10	0.9	3.0	6.1	7.0	13.3	13.2	40.3	35.0	152.3	146.4
L12	11:50:10	0.8	3.0	6.0	6.9	13.2	13.1	40.0	35.1	153.1	146.8
L12	11:52:13	0.9	3.0	6.0	6.8	13.2	13.3	40.2	35.0	153.0	146.8
L13	11:53:56	0.9	3.2	6.6	7.2	14.1	14.3	43.0	38.5	166.1	159.4
L13	11:54:20	0.8	3.1	6.4	7.1	14.1	14.2	42.7	38.4	167.0	160.3
L13	11:55:16	0.8	3.1	6.3	7.0	13.8	14.0	42.3	38.0	165.6	159.9
L13	11:57:16	0.7	3.0	6.3	7.0	14.0	14.1	42.8	38.6	166.9	160.4
L14	11:59:01	0.9	3.1	6.7	7.3	14.7	14.6	46.4	41.2	179.8	174.1
L14	11:59:36	0.8	3.1	6.8	7.2	14.7	14.6	46.6	41.3	180.7	174.4
L14	12:00:32	0.8	3.1	6.7	7.1	14.4	14.5	45.9	41.2	179.7	172.7
L14	12:02:31	0.8	2.8	6.6	7.0	14.3	14.5	45.8	41.1	180.1	173.4
L15	12:03:42	0.9	3.0	6.8	7.3	14.6	14.7	48.1	42.4	186.5	180.6
L15	12:04:14	0.9	3.0	6.8	7.2	14.6	14.7	48.3	42.4	186.8	180.6
L15	12:05:17	0.9	2.9	6.7	7.0	14.5	14.6	47.9	41.9	186.1	180.4
L15	12:07:12	0.8	3.0	6.7	7.0	14.5	14.6	48.2	42.2	186.6	180.4
L16	12:08:40	0.9	2.9	6.8	7.2	14.7	14.8	51.5	43.5	193.0	187.3
L16	12:09:12	0.9	3.0	6.8	7.2	14.6	14.8	51.4	43.4	193.1	188.1
L16	12:10:10	0.8	2.9	6.8	7.1	14.5	14.8	51.5	43.6	193.8	188.8
L16	12:12:12	0.8	2.9	6.8	7.1	14.6	14.7	51.5	43.3	193.7	188.5
L17	12:13:42	0.8	2.9	6.9	7.3	14.8	15.1	53.0	43.7	199.7	194.5
L17	12:14:06	0.9	2.9	6.8	7.3	14.8	15.2	52.6	43.4	199.4	193.3
L17	12:15:09	0.8	2.9	6.7	7.2	14.8	15.4	53.0	43.4	200.5	194.5
L17	12:17:12	0.8	2.9	6.8	7.2	14.5	15.1	52.6	43.2	200.8	195.1
L18	12:18:32	0.9	2.7	6.9	7.5	14.8	15.5	50.0	43.1	206.3	202.1
L18	12:19:02	0.9	3.0	6.9	7.5	14.8	15.3	52.7	42.5	206.1	202.5
L18	12:20:04	0.8	2.6	6.8	7.5	15.0	15.4	51.1	41.6	206.4	202.0
L18	12:22:02	0.8	3.0	6.8	7.5	15.2	15.5	47.7	41.0	206.3	201.1
L19	12:23:44	0.8	3.0	7.0	7.8	15.9	16.0	46.8	40.3	208.9	202.2
L19	12:24:08	0.9	3.1	7.3	8.0	15.8	16.8	45.0	41.2	194.7	186.9
L19A	12:25:09	1.2	3.0	7.3	8.4	16.3	17.4	46.0	41.2	184.4	178.9
L19A	12:26:09	1.0	3.0	6.9	8.3	16.1	16.9	43.5	40.2	181.2	175.8
L19A	12:27:10	0.9	2.9	6.9	8.4	16.1	17.0	44.2	40.4	182.1	176.8
L19B	12:31:12	0.9	2.8	6.7	8.3	15.9	16.8	43.5	40.1	181.9	176.2
U1	12:35:33	0.3	2.4	4.9	6.2	11.7	12.4	37.9	31.9	159.7	155.0
U2	12:39:16	-0.1	2.3	3.7	5.1	8.9	9.4	30.3	26.7	143.7	139.3
U3	12:43:00	-0.5	1.5	0.9	2.3	3.9	4.2	19.2	15.9	111.3	106.2
U4	12:46:48	-0.6	0.5	-0.1	1.3	2.6	1.8	14.2	11.3	94.8	89.7
U5	12:50:48	-0.6	0.0	-1.0	0.6	0.0	0.1	9.2	6.7	76.2	71.3
U6	12:55:01	-0.6	0.2	-1.8	-0.5	-1.0	-1.6	3.4	1.2	49.5	44.6
U7	12:58:53	-0.7	-0.2	-2.7	-1.2	-2.2	-2.9	-1.8	-2.7	24.2	20.1

Table F.22 continued

VIBRATING WIRE CALCULATED STRAIN INCREMENTS

VLE 3 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 53	VW STRN MICRO STRAIN 54	VW STRN MICRO STRAIN 46	VW STRN MICRO STRAIN 45	VW STRN MICRO STRAIN 48	VW STRN MICRO STRAIN 47	VW STRN MICRO STRAIN 49	VW STRN MICRO STRAIN 50	VW STRN MICRO STRAIN 51	VW STRN MICRO STRAIN 52
U8	13:02:34	-0.8	-0.5	-3.6	-2.2	-4.0	-5.0	-6.8	-7.2	-4.0	-8.7
U8A	13:05:32	-0.8	-0.6	-3.7	-2.3	-4.1	-5.0	-7.0	-7.3	-4.3	-9.1
U8B	13:09:28	-0.7	-0.6	-3.6	-2.2	-4.1	-4.9	-6.9	-7.3	-4.7	-9.3

Table F.22 continued

VIBRATING WIRE CALCULATED STRAIN (4 MINUTE READINGS)

VLE 3 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 53	VW STRN MICRO STRAIN 54	VW STRN MICRO STRAIN 46	VW STRN MICRO STRAIN 45	VW STRN MICRO STRAIN 48	VW STRN MICRO STRAIN 47	VW STRN MICRO STRAIN 49	VW STRN MICRO STRAIN 50	VW STRN MICRO STRAIN 51	VW STRN MICRO STRAIN 52
L0	10:49:00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
L1	10:56:27	0.0	0.1	0.0	0.5	0.6	0.1	2.7	0.9	6.6	5.3
L2	11:01:35	0.2	0.1	0.6	1.1	2.6	1.1	4.8	3.4	17.2	13.1
L3	11:06:53	0.4	0.6	1.6	1.8	3.7	2.6	8.0	7.0	30.3	25.9
L4	11:11:54	0.6	1.3	2.5	3.0	4.7	4.4	11.7	10.3	44.3	38.9
L5	11:16:54	0.7	1.8	2.9	3.5	6.0	5.4	16.6	13.1	58.0	52.4
L6	11:21:53	0.8	2.1	3.2	3.9	7.1	6.7	18.5	16.0	71.6	65.9
L7	11:26:52	0.7	2.3	3.6	4.5	7.4	7.3	20.9	19.0	84.9	79.3
L8	11:31:58	0.8	2.4	3.8	5.3	8.8	8.5	25.3	22.1	98.7	92.9
L9	11:37:00	0.8	2.5	4.5	5.6	10.2	9.7	28.6	25.0	112.1	106.5
L10	11:41:53	0.9	2.7	5.1	6.0	12.1	11.3	32.2	28.7	125.8	120.1
L11	11:46:57	0.9	2.8	5.6	6.4	12.1	12.4	35.4	31.7	139.5	133.2
L12	11:52:13	0.9	3.0	6.0	6.8	13.2	13.3	40.2	35.0	153.0	146.8
L13	11:57:16	0.7	3.0	6.3	7.0	14.0	14.1	42.8	38.6	166.9	160.4
L14	12:02:31	0.8	2.8	6.6	7.0	14.3	14.5	45.8	41.1	180.1	173.4
L15	12:07:12	0.8	3.0	6.7	7.0	14.5	14.6	48.2	42.2	186.6	180.4
L16	12:12:12	0.8	2.9	6.8	7.1	14.6	14.7	51.5	43.3	193.7	188.5
L17	12:17:12	0.8	2.9	6.8	7.2	14.5	15.1	52.6	43.2	200.8	195.1
L18	12:22:02	0.8	3.0	6.8	7.5	15.2	15.5	47.7	41.0	206.3	201.1
L19	12:24:08	0.9	3.1	7.3	8.0	15.8	16.8	45.0	41.2	194.7	186.9
L19A	12:27:10	0.9	2.9	6.9	8.4	16.1	17.0	44.2	40.4	182.1	176.8
L19B	12:31:12	0.9	2.8	6.7	8.3	15.9	16.8	43.5	40.1	181.9	176.2
U1	12:35:33	0.3	2.4	4.9	6.2	11.7	12.4	37.9	31.9	159.7	155.0
U2	12:39:16	-0.1	2.3	3.7	5.1	8.9	9.4	30.3	26.7	143.7	139.3
U3	12:43:00	-0.5	1.5	0.9	2.3	3.9	4.2	19.2	15.9	111.3	106.2
U4	12:46:48	-0.6	0.5	-0.1	1.3	2.6	1.8	14.2	11.3	94.8	89.7
U5	12:50:48	-0.6	0.0	-1.0	0.6	0.0	0.1	9.2	6.7	76.2	71.3
U6	12:55:01	-0.6	0.2	-1.8	-0.5	-1.0	-1.6	3.4	1.2	49.5	44.6
U7	12:58:53	-0.7	-0.2	-2.7	-1.2	-2.2	-2.9	-1.8	-2.7	24.2	20.1
U8	13:02:34	-0.8	-0.5	-3.6	-2.2	-4.0	-5.0	-6.8	-7.2	-4.0	-8.7
U8A	13:05:32	-0.8	-0.6	-3.7	-2.3	-4.1	-5.0	-7.0	-7.3	-4.3	-9.1
U8B	13:09:28	-0.7	-0.6	-3.6	-2.2	-4.1	-4.9	-6.9	-7.3	-4.7	-9.3

Table F.22 continued

AVERAGE STRAIN AT EACH GAGE LEVEL, INTEGRATED PILE COMPRESSION & COMPARISON WITH TELLTALE MEASUREMENT (4 MINUTE READINGS)

VLE 3 LOAD NUMBER	AVG VW MICRO STRAIN SURFACE	AVG VW MICRO STRAIN 53+54	AVG VW MICRO STRAIN 46+45	AVG VW MICRO STRAIN 48+47	AVG VW MICRO STRAIN 49+50	AVG VW MICRO STRAIN 51+52	EST'D. MICRO STRAIN CELL TOP	PILE COMPRESSION SG MSMT. INCHES	TT MSMT. INCHES	ABS.DIFF. SG-TT INCHES
L0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0000	0.0000	0.0000
L1	0.0	0.1	0.3	0.3	1.8	6.0	9.9	0.0008	0.0003	0.0005
L2	0.0	0.1	0.8	1.9	4.1	15.2	20.9	0.0019	0.0009	0.0009
L3	0.0	0.5	1.7	3.1	7.5	28.1	34.2	0.0034	0.0020	0.0014
L4	0.0	1.0	2.7	4.6	11.0	41.6	47.7	0.0051	0.0030	0.0021
L5	0.0	1.3	3.2	5.7	14.8	55.2	61.4	0.0067	0.0040	0.0028
L6	0.0	1.5	3.5	6.9	17.3	68.7	74.9	0.0081	0.0050	0.0032
L7	0.0	1.5	4.1	7.3	20.0	82.1	88.4	0.0096	0.0061	0.0034
L8	0.0	1.6	4.6	8.7	23.7	95.8	102.0	0.0112	0.0072	0.0040
L9	0.0	1.7	5.1	10.0	26.8	109.3	115.6	0.0127	0.0083	0.0045
L10	0.0	1.8	5.5	11.7	30.5	123.0	129.2	0.0144	0.0093	0.0051
L11	0.0	1.8	6.0	12.2	33.6	136.4	142.6	0.0159	0.0104	0.0055
L12	0.0	1.9	6.4	13.2	37.6	149.9	156.1	0.0176	0.0116	0.0060
L13	0.0	1.9	6.7	14.0	40.7	163.7	169.7	0.0190	0.0127	0.0064
L14	0.0	1.8	6.8	14.4	43.4	176.7	182.8	0.0204	0.0137	0.0068
L15	0.0	1.9	6.8	14.6	45.2	183.5	189.6	0.0212	0.0142	0.0070
L16	0.0	1.9	6.9	14.6	47.4	191.1	196.8	0.0221	0.0145	0.0076
L17	0.0	1.8	7.0	14.8	47.9	197.9	203.6	0.0227	0.0152	0.0075
L18	0.0	1.9	7.2	15.3	44.4	203.7	209.8	0.0225	0.0154	0.0071
L19	0.0	2.0	7.6	16.3	43.1	190.8	203.1	0.0214	0.0154	0.0061
L19A	0.0	1.9	7.6	16.6	42.3	179.4	185.4	0.0205	0.0141	0.0064
L19B	0.0	1.8	7.5	16.3	41.8	179.1	184.6	0.0204	0.0141	0.0062
U1	0.0	1.4	5.5	12.0	34.9	157.3	161.0	0.0175	0.0121	0.0054
U2	0.0	1.1	4.4	9.1	28.5	141.5	144.4	0.0152	0.0105	0.0046
U3	0.0	0.5	1.6	4.0	17.6	108.8	110.4	0.0108	0.0073	0.0035
U4	0.0	-0.0	0.6	2.2	12.8	92.2	93.5	0.0087	0.0059	0.0028
U5	0.0	-0.3	-0.2	0.1	8.0	73.8	74.9	0.0065	0.0043	0.0021
U6	0.0	-0.2	-1.2	-1.3	2.3	47.1	48.3	0.0036	0.0024	0.0011
U7	0.0	-0.4	-1.9	-2.6	-2.3	22.1	24.0	0.0010	0.0008	0.0001
U8	0.0	-0.6	-2.9	-4.5	-7.0	-6.3	-4.0	-0.0019	-0.0009	-0.0010
U8A	0.0	-0.7	-3.0	-4.6	-7.1	-6.7	-4.3	-0.0019	-0.0010	-0.0010
U8B	0.0	-0.6	-2.9	-4.5	-7.1	-7.0	-4.5	-0.0020	-0.0010	-0.0010
ELEV. FT	3.57	-2.47	-6.96	-12.96	-19.46	-29.96	-30.46			

Table F.22 continued

VIBRATING WIRE CALCULATED AVERAGE LOADS (4 MINUTE READINGS)

LA = 10.50 ft ACA = 317.115 si
LB = 1.38 ft ACB = 313.155 si
B = 18.00 in ASA = 3.538 si
ES = 27500.0 ksi ASB = 7.498 si

VLE 3 LOAD NUMBER	AVG VW LOAD TONS SURFACE	AVG VW LOAD TONS 53+54	AVG VW LOAD TONS 46+45	AVG VW LOAD TONS 48+47	AVG VW LOAD TONS 49+50	AVG VW LOAD TONS 51+52	OSTERBERG LOAD TONS BOTTOM	INCR. PILE MODULUS KSI	CALC. PILE A MODULUS KSI	CALC. PILE B MODULUS KSI
L0	0.0	0.00	0.00	0.00	0.00	0.00	0.0		4356.9	4642.4
L1	0.0	0.05	0.19	0.24	1.29	4.48	12.7	13152.0	4356.9	4642.4
L2	0.0	0.10	0.60	1.32	2.90	11.42	23.2	7058.0	4356.9	4642.4
L3	0.0	0.34	1.20	2.22	5.31	21.12	33.7	4988.5	4356.9	4642.4
L4	0.0	0.69	1.91	3.22	7.75	31.27	44.0	4737.1	4356.9	4642.4
L5	0.0	0.91	2.24	4.02	10.48	41.54	54.3	4650.2	4356.9	4642.4
L6	0.0	1.03	2.49	4.86	12.20	51.67	64.5	4694.2	4356.9	4642.4
L7	0.0	1.06	2.88	5.18	14.09	61.75	74.8	4741.7	4356.9	4642.4
L8	0.0	1.16	3.22	6.11	16.75	72.05	84.9	4543.1	4356.9	4642.4
L9	0.0	1.18	3.57	7.03	18.91	82.21	95.2	4676.2	4356.9	4642.4
L10	0.0	1.24	3.91	8.25	21.51	92.49	105.3	4564.2	4356.9	4642.4
L11	0.0	1.29	4.22	8.64	23.69	102.56	115.4	4655.0	4356.9	4642.4
L12	0.0	1.37	4.54	9.35	26.56	112.76	125.4	4584.6	4356.9	4642.4
L13	0.0	1.33	4.69	9.91	28.71	123.08	135.7	4606.2	4356.9	4642.4
L14	0.0	1.26	4.78	10.16	30.67	132.93	145.5	4651.7	4356.9	4642.4
L15	0.0	1.32	4.83	10.30	31.89	138.01	150.6	4627.3	4356.9	4642.4
L16	0.0	1.31	4.89	10.34	33.46	143.71	155.6	4046.9	4356.9	4642.4
L17	0.0	1.31	4.93	10.46	33.83	148.87	160.6	4482.0	4356.9	4642.4
L18	0.0	1.33	5.06	10.83	31.32	153.18	165.8	5659.4	4356.9	4642.4
L19	0.0	1.42	5.38	11.49	30.42	143.49	168.9		4356.9	4642.4
L19A	0.0	1.37	5.39	11.68	29.86	134.94	147.3		4356.9	4642.4
L19B	0.0	1.30	5.31	11.54	29.49	134.67	146.2		4356.9	4642.4
U1	0.0	0.97	3.92	8.51	24.63	118.32	125.9		4356.9	4642.4
U2	0.0	0.79	3.10	6.43	20.13	106.40	112.5		4356.9	4642.4
U3	0.0	0.35	1.12	2.84	12.40	81.81	85.2		4356.9	4642.4
U4	0.0	-0.02	0.42	1.56	9.01	69.36	72.1		4356.9	4642.4
U5	0.0	-0.19	-0.15	0.04	5.61	55.49	57.7		4356.9	4642.4
U6	0.0	-0.12	-0.82	-0.92	1.63	35.39	37.9		4356.9	4642.4
U7	0.0	-0.31	-1.35	-1.80	-1.59	16.66	20.5		4356.9	4642.4
U8	0.0	-0.45	-2.05	-3.19	-4.93	-4.76	0.0		4356.9	4642.4
U8A	0.0	-0.49	-2.10	-3.21	-5.03	-5.05	0.0		4356.9	4642.4
U8B	0.0	-0.45	-2.06	-3.18	-5.01	-5.28	0.0		4356.9	4642.4

ELEV. FT	3.57	-2.47	-6.96	-12.96	-19.46	-29.96	-31.34	4144.7 KSI = CONCRETE MODULUS

Table F.22 continued

INTEGRATED MOVEMENT AT VW STRAIN GAGE (4 MINUTE READINGS)

VLE 3 LOAD NUMBER	VW MOVEMENT INCHES SURFACE	VW MOVEMENT INCHES 53+54	VW MOVEMENT INCHES 46+45	VW MOVEMENT INCHES 48+47	VW MOVEMENT INCHES 49+50	VW MOVEMENT INCHES 51+52	VW MOVEMENT INCHES CELL TOP
L0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L1	-0.0004	-0.0004	-0.0003	-0.0003	-0.0002	0.0003	0.0003
L2	-0.0007	-0.0007	-0.0007	-0.0006	-0.0004	0.0008	0.0009
L3	-0.0011	-0.0011	-0.0010	-0.0008	-0.0004	0.0018	0.0020
L4	0.0084	0.0084	0.0085	0.0088	0.0094	0.0127	0.0130
L5	0.0079	0.0080	0.0081	0.0084	0.0092	0.0136	0.0140
L6	0.0126	0.0126	0.0128	0.0132	0.0141	0.0195	0.0200
L7	0.0125	0.0126	0.0127	0.0131	0.0142	0.0206	0.0211
L8	0.0121	0.0122	0.0124	0.0128	0.0141	0.0216	0.0222
L9	0.0168	0.0169	0.0171	0.0176	0.0190	0.0276	0.0283
L10	0.0214	0.0214	0.0216	0.0222	0.0239	0.0335	0.0343
L11	0.0311	0.0312	0.0314	0.0321	0.0339	0.0446	0.0454
L12	0.0309	0.0309	0.0312	0.0319	0.0339	0.0457	0.0466
L13	0.0406	0.0407	0.0409	0.0417	0.0438	0.0567	0.0577
L14	0.0504	0.0505	0.0507	0.0515	0.0537	0.0676	0.0687
L15	0.0503	0.0504	0.0506	0.0514	0.0537	0.0681	0.0692
L16	0.0648	0.0649	0.0651	0.0659	0.0683	0.0834	0.0845
L17	0.0700	0.0701	0.0703	0.0711	0.0735	0.0890	0.0902
L18	0.0901	0.0901	0.0904	0.0912	0.0935	0.1092	0.1104
L19	0.1509	0.1510	0.1513	0.1521	0.1544	0.1692	0.1704
L19A	0.3756	0.3756	0.3759	0.3768	0.3791	0.3930	0.3941
L19B	0.3757	0.3757	0.3760	0.3769	0.3791	0.3930	0.3941
U1	0.3763	0.3764	0.3765	0.3772	0.3790	0.3911	0.3921
U2	0.3718	0.3719	0.3720	0.3725	0.3740	0.3847	0.3855
U3	0.3725	0.3725	0.3726	0.3728	0.3736	0.3816	0.3823
U4	0.3680	0.3680	0.3680	0.3681	0.3687	0.3753	0.3759
U5	0.3634	0.3634	0.3634	0.3634	0.3637	0.3689	0.3693
U6	0.3541	0.3541	0.3541	0.3540	0.3541	0.3572	0.3575
U7	0.3449	0.3449	0.3448	0.3446	0.3445	0.3457	0.3459
U8	0.3358	0.3358	0.3357	0.3354	0.3350	0.3341	0.3341
U8A	0.3358	0.3358	0.3357	0.3354	0.3350	0.3341	0.3341
U8B	0.3358	0.3358	0.3357	0.3354	0.3350	0.3341	0.3341

Table F.22 continued

INTEGRATED MOVEMENT AT SEGMENT CL (4 MINUTE READINGS)

VLE 3 LOAD NUMBER	AVG VW MOVEMENT INCHES	AVG VW MOVEMENT INCHES	AVG VW MOVEMENT INCHES	AVG VW MOVEMENT INCHES	AVG VW MOVEMENT INCHES
CL.ELEV.	0.55	-4.72	-9.96	-16.21	-24.71
L0	0.0000	0.0000	0.0000	0.0000	0.0000
L1	0.0000	0.0000	0.0000	0.0000	0.0000
L2	0.0000	0.0000	0.0000	0.0000	0.0002
L3	0.0000	0.0000	0.0000	0.0000	0.0007
L4	0.0084	0.0085	0.0086	0.0091	0.0110
L5	0.0079	0.0080	0.0082	0.0088	0.0114
L6	0.0126	0.0127	0.0130	0.0136	0.0168
L7	0.0125	0.0126	0.0129	0.0137	0.0174
L8	0.0122	0.0123	0.0126	0.0135	0.0179
L9	0.0168	0.0170	0.0173	0.0183	0.0233
L10	0.0214	0.0215	0.0219	0.0231	0.0287
L11	0.0312	0.0313	0.0317	0.0330	0.0392
L12	0.0309	0.0311	0.0315	0.0329	0.0398
L13	0.0407	0.0408	0.0413	0.0427	0.0502
L14	0.0504	0.0506	0.0511	0.0526	0.0607
L15	0.0503	0.0505	0.0510	0.0525	0.0609
L16	0.0649	0.0650	0.0655	0.0671	0.0758
L17	0.0700	0.0702	0.0707	0.0723	0.0813
L18	0.0901	0.0903	0.0908	0.0924	0.1013
L19	0.1510	0.1511	0.1517	0.1533	0.1618
L19A	0.3756	0.3758	0.3763	0.3779	0.3860
L19B	0.3757	0.3759	0.3764	0.3780	0.3861
U1	0.3763	0.3765	0.3769	0.3781	0.3851
U2	0.3718	0.3719	0.3722	0.3732	0.3793
U3	0.3725	0.3726	0.3727	0.3732	0.3776
U4	0.3680	0.3680	0.3680	0.3684	0.3720
U5	0.3634	0.3634	0.3634	0.3636	0.3663
U6	0.3541	0.3541	0.3541	0.3540	0.3556
U7	0.3449	0.3448	0.3447	0.3446	0.3451
U8	0.3358	0.3357	0.3356	0.3352	0.3346
U8A	0.3358	0.3357	0.3355	0.3352	0.3345
U8B	0.3358	0.3357	0.3356	0.3352	0.3345

Table F.22 continued

AVERAGE SEGMENT SHEAR STRESS (4 MINUTE READINGS)

VLE 3 LOAD NUMBER CL.ELEV.	AVG VW SHEAR TSF 0.55	AVG VW SHEAR TSF -4.72	AVG VW SHEAR TSF -9.96	AVG VW SHEAR TSF -16.21	AVG VW SHEAR TSF -24.71
L0	-0.016	-0.016	-0.016	-0.016	-0.016
L1	-0.015	-0.011	-0.015	0.010	0.034
L2	-0.014	0.002	0.004	0.024	0.119
L3	-0.007	0.015	0.012	0.063	0.235
L4	0.003	0.029	0.020	0.100	0.357
L5	0.009	0.033	0.033	0.149	0.477
L6	0.012	0.038	0.049	0.172	0.610
L7	0.013	0.051	0.047	0.212	0.740
L8	0.016	0.060	0.064	0.256	0.861
L9	0.016	0.072	0.079	0.288	0.988
L10	0.018	0.082	0.104	0.323	1.110
L11	0.019	0.092	0.106	0.370	1.235
L12	0.021	0.101	0.117	0.425	1.352
L13	0.020	0.109	0.128	0.466	1.481
L14	0.018	0.114	0.133	0.509	1.607
L15	0.020	0.114	0.135	0.537	1.668
L16	0.020	0.117	0.135	0.576	1.734
L17	0.020	0.118	0.137	0.583	1.809
L18	0.020	0.122	0.144	0.509	1.918
L19	0.023	0.131	0.153	0.469	1.778
L19A	0.021	0.133	0.158	0.450	1.651
L19B	0.019	0.132	0.157	0.444	1.653
U1	0.010	0.093	0.111	0.397	1.471
U2	0.005	0.069	0.076	0.335	1.353
U3	-0.007	0.012	0.031	0.229	1.085
U4	-0.017	-0.000	0.015	0.175	0.942
U5	-0.022	-0.015	-0.011	0.126	0.775
U6	-0.020	-0.042	-0.019	0.049	0.520
U7	-0.025	-0.055	-0.029	-0.011	0.273
U8	-0.029	-0.076	-0.048	-0.061	-0.014
U8A	-0.030	-0.076	-0.047	-0.063	-0.017
U8B	-0.029	-0.076	-0.047	-0.063	-0.021

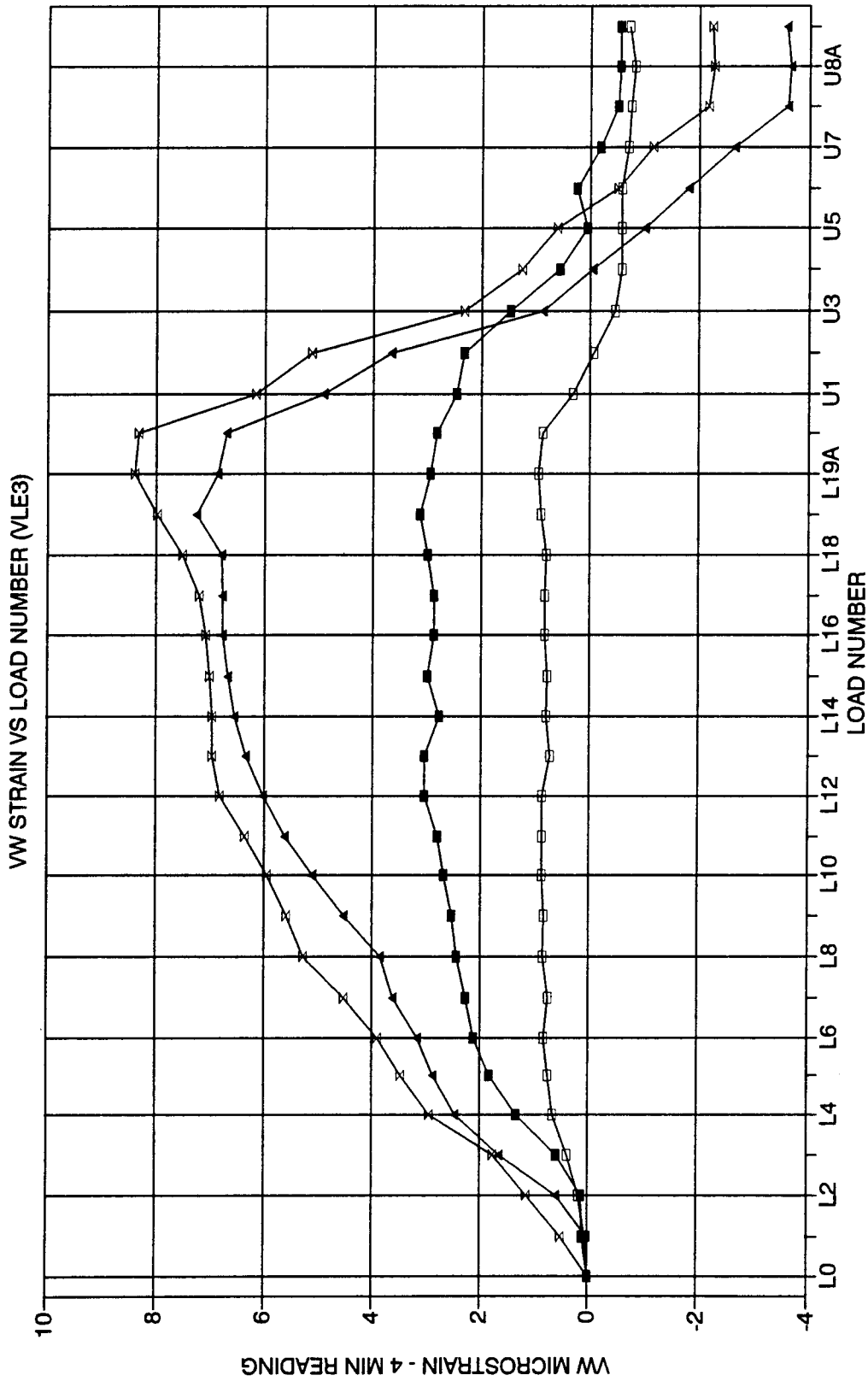

Figure F.113 Strain at Pile Top: Vilano East Load Test 3

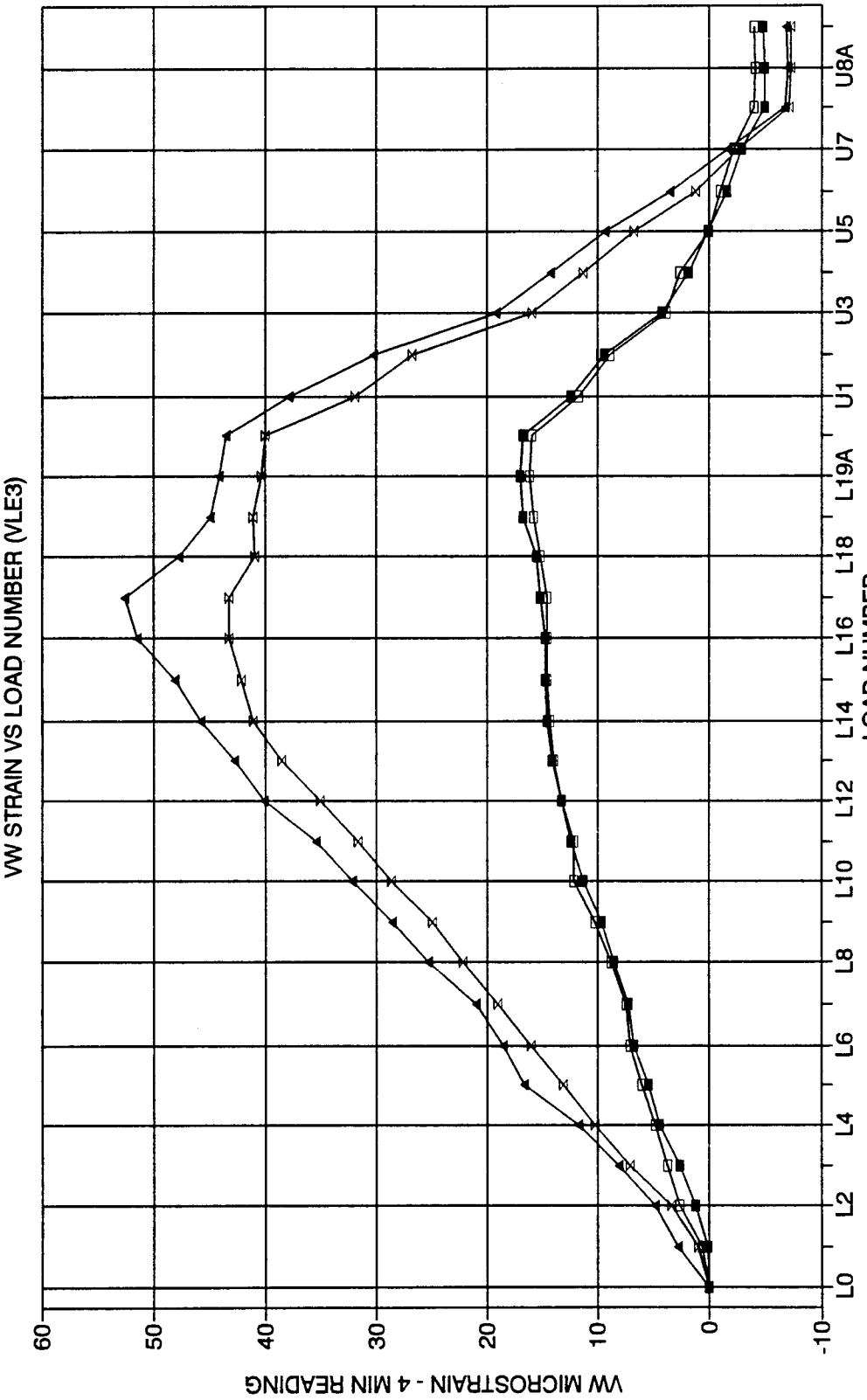

Figure F.114 Strain at Pile Middle: Vilano East Load Test 3

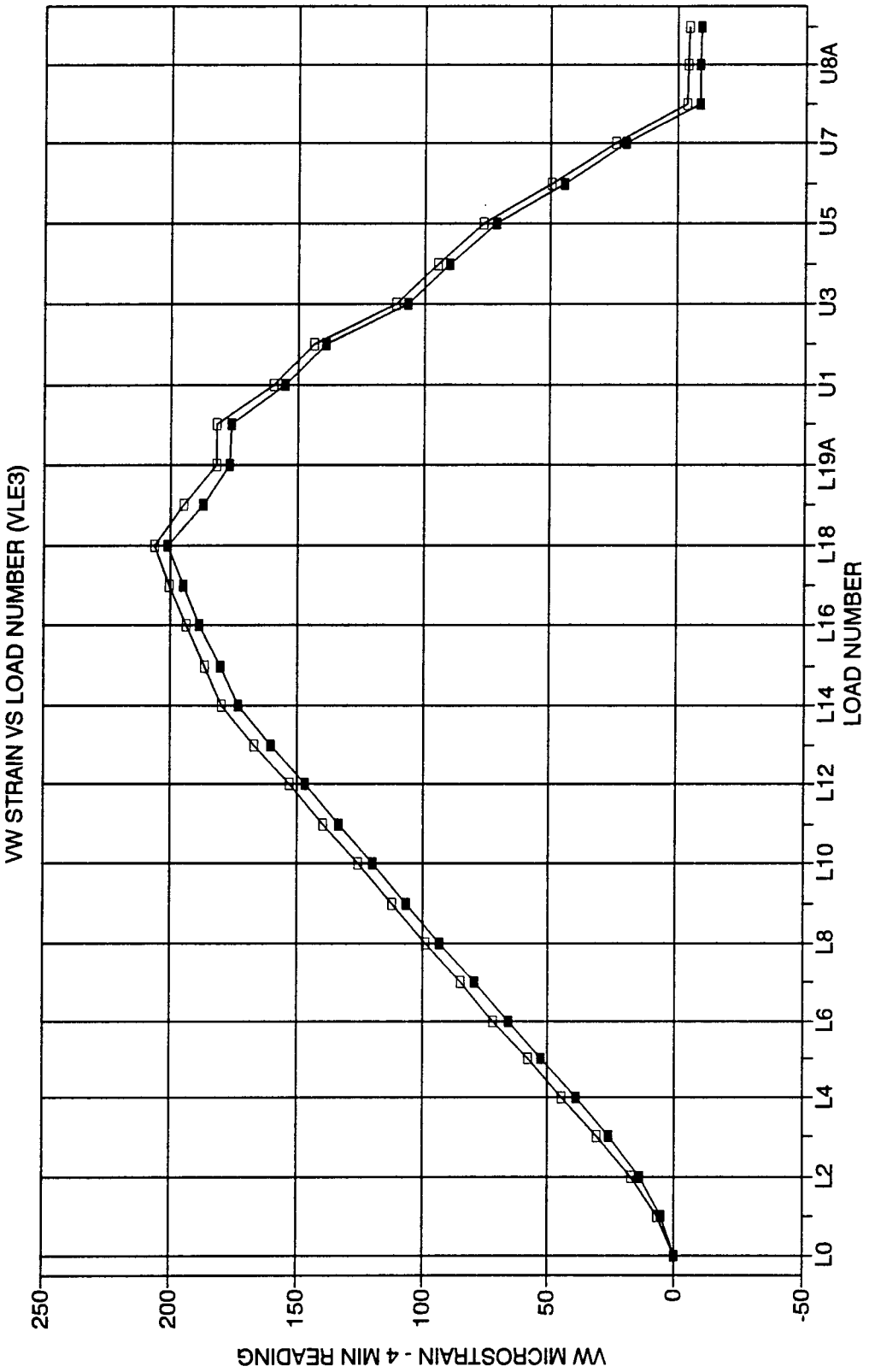

Figure F.115 Strain at Pile Bottom: Vilano East Load Test 3

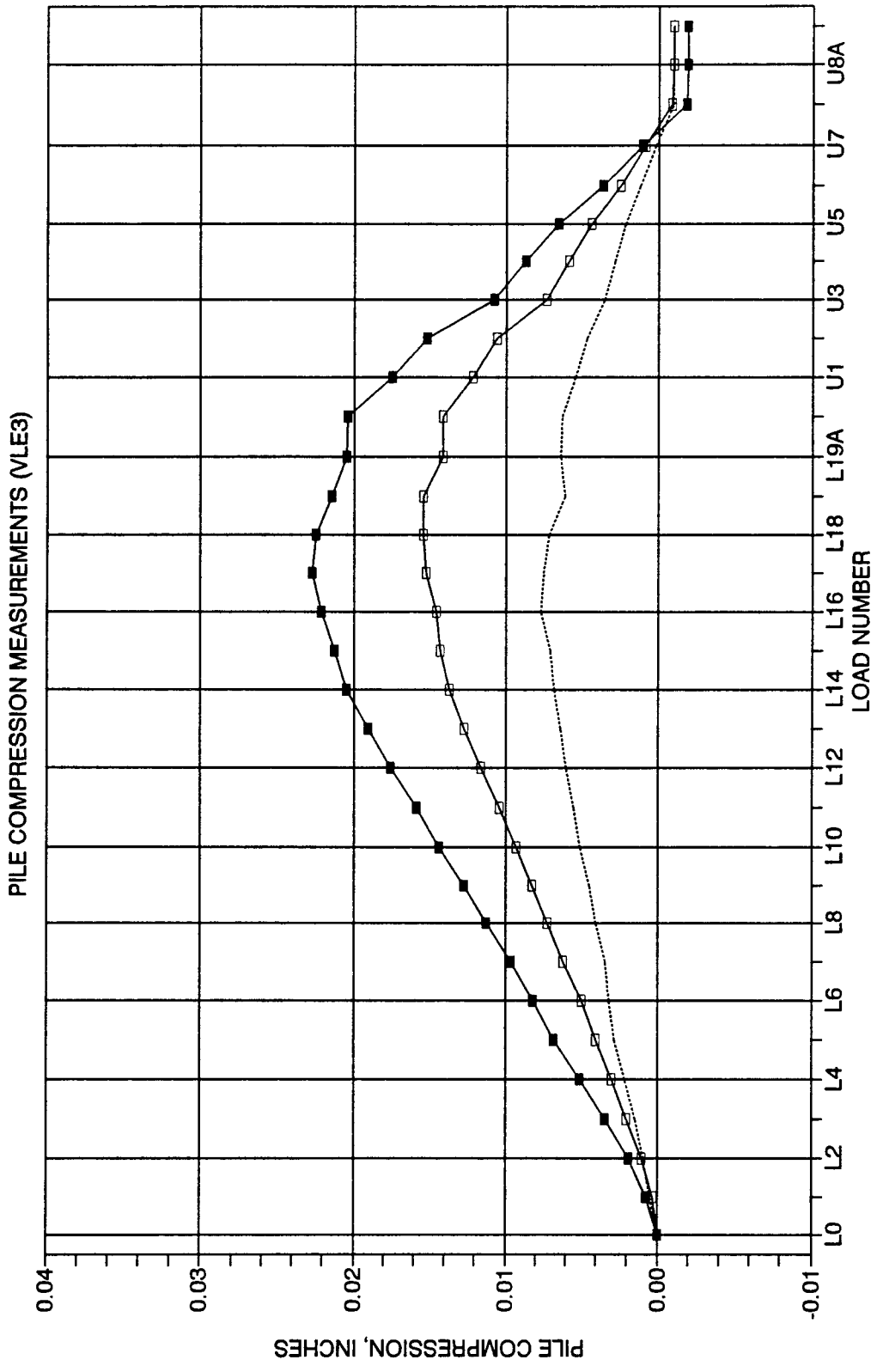

Figure F.116 Pile Compression Measurements: Vilano East Load Test 3

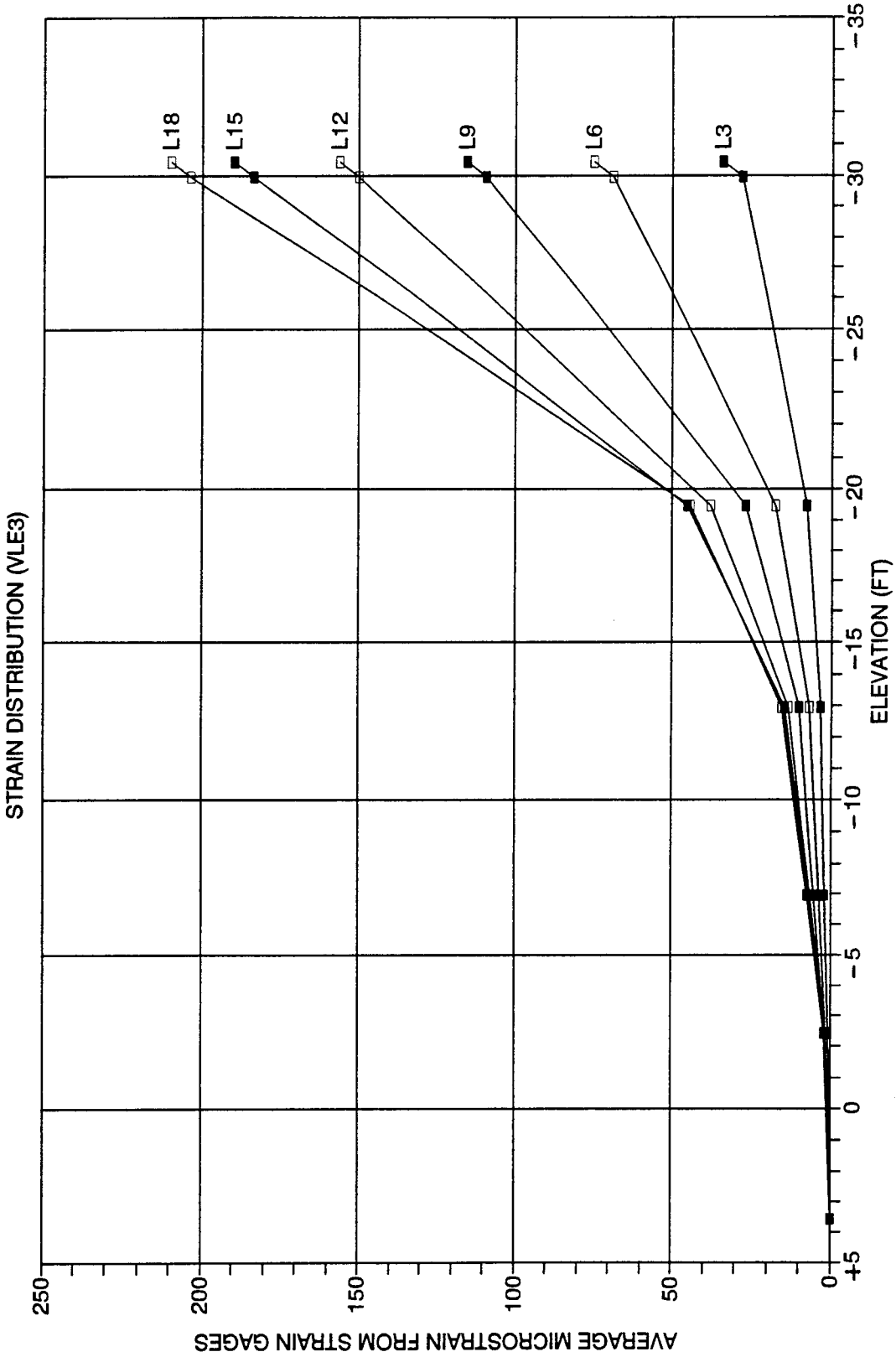

Figure F.117 Pile Strain Distribution: Vilano East Load Test 3

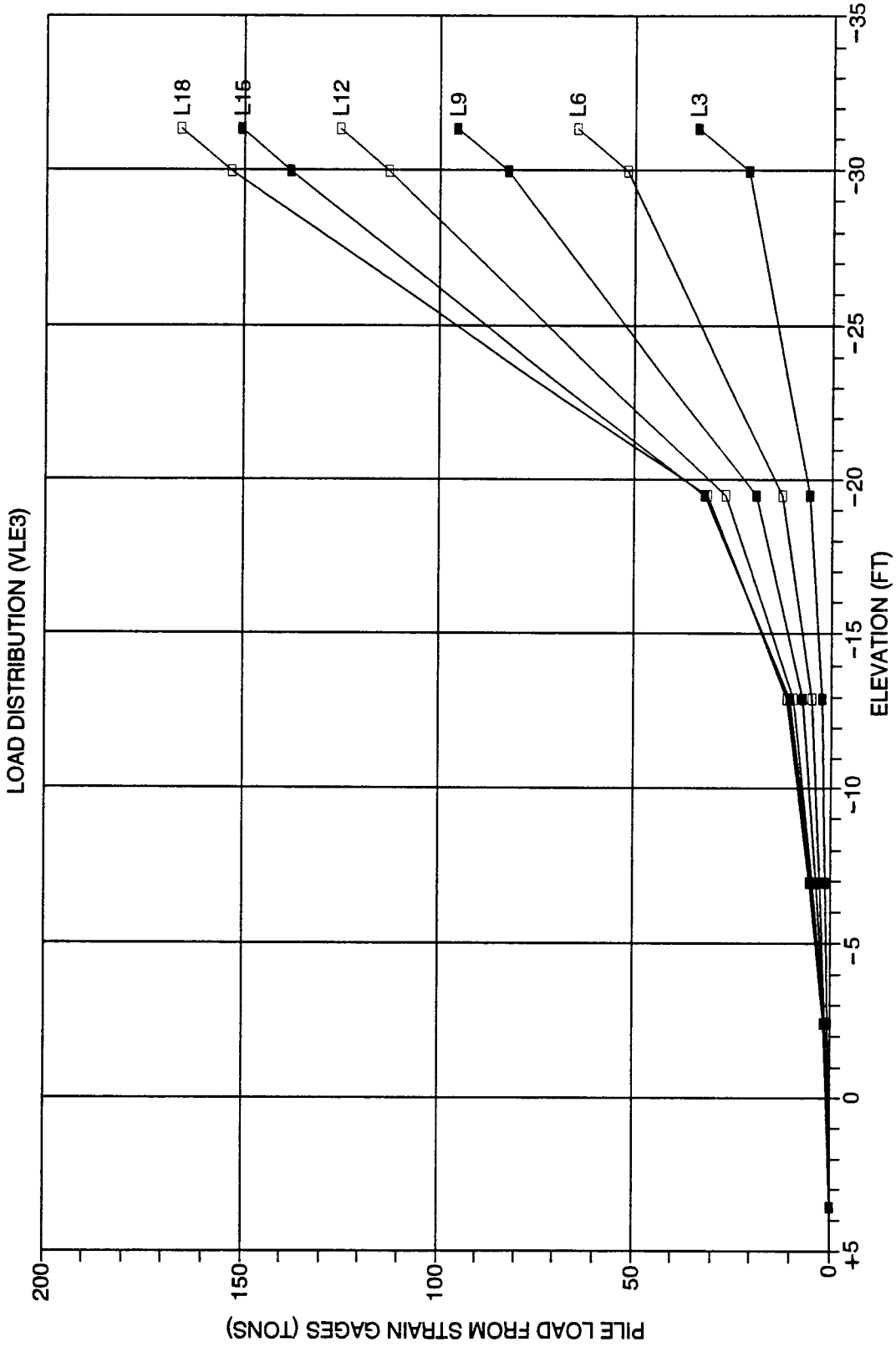

Figure F.118 Pile Load Distribution: Vilano East Load Test 3

Table F.23 Strain Analyses: Vilano East Load Test 4

VIBRATING WIRE INSTRUMENT READINGS - STRAIN

VLE 4 LOAD NUMBER	TIME	VW STRN FREQ^2 KHZ^2 53	VW STRN FREQ^2 KHZ^2 54	VW STRN FREQ^2 KHZ^2 46	VW STRN FREQ^2 KHZ^2 45	VW STRN FREQ^2 KHZ^2 48	VW STRN FREQ^2 KHZ^2 47	VW STRN FREQ^2 KHZ^2 49	VW STRN FREQ^2 KHZ^2 50	VW STRN FREQ^2 KHZ^2 51	VW STRN FREQ KHZ^2 52
L0	12:34:34	0.67560	0.66765	0.68408	0.61085	0.66032	0.64018	0.72222	0.64061	0.79575	0.73282
L0	12:41:22	0.67559	0.66763	0.68406	0.61087	0.66034	0.64018	0.72222	0.64060	0.79573	0.73282
L1	12:44:20	0.67550	0.66756	0.68381	0.61062	0.65989	0.63959	0.72085	0.63951	0.79223	0.72961
L1	12:44:50	0.67550	0.66757	0.68381	0.61068	0.65990	0.63959	0.72087	0.63951	0.79212	0.72951
L1	12:45:50	0.67551	0.66756	0.68381	0.61069	0.65991	0.63958	0.72087	0.63951	0.79215	0.72949
L1	12:47:49	0.67551	0.66757	0.68382	0.61063	0.65990	0.63959	0.72083	0.63951	0.79214	0.72954
L2	12:49:49	0.67543	0.66750	0.68344	0.61026	0.65897	0.63891	0.71964	0.63825	0.78805	0.72592
L2	12:50:18	0.67542	0.66750	0.68345	0.61028	0.65902	0.63893	0.71964	0.63824	0.78801	0.72590
L2	12:51:20	0.67541	0.66750	0.68346	0.61030	0.65898	0.63893	0.71964	0.63828	0.78803	0.72589
L2	12:53:18	0.67541	0.66751	0.68343	0.61029	0.65902	0.63893	0.71964	0.63824	0.78798	0.72588
L3	12:55:32	0.67530	0.66742	0.68305	0.60998	0.65853	0.63829	0.71823	0.63695	0.78425	0.72208
L3	12:57:04	0.67529	0.66742	0.68312	0.60999	0.65857	0.63828	0.71819	0.63696	0.78422	0.72203
L3	12:59:02	0.67530	0.66743	0.68306	0.60999	0.65858	0.63830	0.71824	0.63699	0.78424	0.72198
L4	13:00:42	0.67516	0.66735	0.68287	0.60948	0.65777	0.63762	0.71699	0.63569	0.78040	0.71819
L4	13:01:12	0.67514	0.66737	0.68284	0.60948	0.65772	0.63760	0.71699	0.63568	0.78030	0.71819
L4	13:02:42	0.67513	0.66735	0.68288	0.60948	0.65774	0.63762	0.71702	0.63570	0.78031	0.71810
L4	13:04:10	0.67514	0.66738	0.68290	0.60949	0.65779	0.63765	0.71704	0.63570	0.78027	0.71814
L5	13:05:47	0.67499	0.66731	0.68256	0.60928	0.65738	0.63706	0.71585	0.63437	0.77683	0.71415
L5	13:06:16	0.67500	0.66732	0.68255	0.60929	0.65740	0.63706	0.71583	0.63437	0.77681	0.71418
L5	13:07:19	0.67500	0.66732	0.68256	0.60930	0.65740	0.63706	0.71584	0.63434	0.77679	0.71409
L5	13:09:15	0.67500	0.66732	0.68257	0.60931	0.65740	0.63706	0.71584	0.63437	0.77679	0.71413
L6	13:10:59	0.67486	0.66736	0.68234	0.60895	0.65695	0.63665	0.71469	0.63337	0.77272	0.71017
L6	13:11:30	0.67487	0.66737	0.68235	0.60895	0.65696	0.63666	0.71467	0.63339	0.77262	0.71018
L6	13:12:48	0.67488	0.66738	0.68236	0.60897	0.65697	0.63667	0.71465	0.63333	0.77262	0.71015
L6	13:14:29	0.67486	0.66736	0.68236	0.60893	0.65697	0.63667	0.71472	0.63336	0.77261	0.71007
L7	13:16:27	0.67476	0.66739	0.68216	0.60887	0.65646	0.63633	0.71299	0.63215	0.76892	0.70660
L7	13:16:58	0.67475	0.66737	0.68217	0.60886	0.65644	0.63635	0.71295	0.63218	0.76880	0.70658
L7	13:17:59	0.67476	0.66738	0.68217	0.60886	0.65646	0.63634	0.71288	0.63213	0.76880	0.70653
L7	13:19:58	0.67473	0.66738	0.68218	0.60886	0.65646	0.63636	0.71290	0.63216	0.76880	0.70653
L8	13:22:34	0.67468	0.66740	0.68202	0.60867	0.65611	0.63579	0.71196	0.63116	0.76523	0.70269
L8	13:23:35	0.67468	0.66738	0.68202	0.60870	0.65610	0.63578	0.71199	0.63112	0.76508	0.70276
L8	13:25:34	0.67469	0.66740	0.68202	0.60870	0.65615	0.63578	0.71192	0.63116	0.76508	0.70265
L9	13:28:07	0.67462	0.66741	0.68179	0.60818	0.65560	0.63525	0.71091	0.63002	0.76118	0.69901
L9	13:28:38	0.67465	0.66742	0.68183	0.60819	0.65560	0.63530	0.71112	0.62993	0.76122	0.69924
L9	13:29:39	0.67465	0.66740	0.68180	0.60823	0.65564	0.63524	0.71093	0.62993	0.76110	0.69907
L9	13:31:40	0.67465	0.66741	0.68183	0.60820	0.65559	0.63528	0.71098	0.62997	0.76105	0.69898
L10	13:34:53	0.67461	0.66737	0.68165	0.60812	0.65511	0.63498	0.70954	0.62910	0.75751	0.69591
L10	13:35:24	0.67462	0.66739	0.68166	0.60811	0.65513	0.63505	0.70950	0.62906	0.75738	0.69563
L10	13:36:22	0.67463	0.66738	0.68166	0.60812	0.65517	0.63498	0.70950	0.62908	0.75756	0.69523
L10	13:38:25	0.67462	0.66738	0.68165	0.60811	0.65519	0.63499	0.70948	0.62916	0.75732	0.69585
U1	13:43:02	0.67500	0.66738	0.68242	0.60886	0.65680	0.63653	0.71314	0.63210	0.76565	0.70365
U2	13:47:02	0.67515	0.66732	0.68294	0.60939	0.65767	0.63748	0.71465	0.63412	0.77109	0.70870
U3	13:51:18	0.67525	0.66733	0.68311	0.60956	0.65837	0.63802	0.71598	0.63515	0.77496	0.71222

Table F.23 continued

VIBRATING WIRE INSTRUMENT READINGS - STRAIN

VLE 4 LOAD NUMBER	TIME	VW STRN FREQ^2 KHZ^2 53	VW STRN FREQ^2 KHZ^2 54	VW STRN FREQ^2 KHZ^2 46	VW STRN FREQ^2 KHZ^2 45	VW STRN FREQ^2 KHZ^2 48	VW STRN FREQ^2 KHZ^2 47	VW STRN FREQ^2 KHZ^2 49	VW STRN FREQ^2 KHZ^2 50	VW STRN FREQ^2 KHZ^2 51	VW STRN FREQ KHZ^2 52
U4	13:55:35	0.67539	0.66747	0.68368	0.61017	0.65892	0.63875	0.71723	0.63675	0.78013	0.71752
U5	13:59:44	0.67547	0.66764	0.68406	0.61045	0.65960	0.63936	0.71915	0.63811	0.78559	0.72258
U6	14:04:06	0.67558	0.66785	0.68435	0.61086	0.66026	0.64002	0.72089	0.63950	0.79080	0.72774
U7	14:07:56	0.67571	0.66780	0.68479	0.61121	0.66086	0.64060	0.72221	0.64073	0.79451	0.73216
U7A	14:11:04	0.67572	0.66781	0.68477	0.61115	0.66087	0.64060	0.72223	0.64074	0.79447	0.73218
U7B	14:15:52	0.67571	0.66780	0.68480	0.61118	0.66090	0.64063	0.72220	0.64078	0.79547	0.73232

Table F.23 continued

VIBRATING WIRE INSTRUMENT READINGS - TEMPERATURE

VLE 4 LOAD NUMBER	TIME	VW STRN TEMP DEG C 53	VW STRN TEMP DEG C 54	VW STRN TEMP DEG C 46	VW STRN TEMP DEG C 45	VW STRN TEMP DEG C 48	VW STRN TEMP DEG C 47	VW STRN TEMP DEG C 49	VW STRN TEMP DEG C 50	VW STRN TEMP DEG C 51	VW STRN TEMP DEG C 52
L0	12:34:34	24.437	24.600	23.086	23.054	22.139	22.108	22.484	22.421	22.202	23.118
L0	12:41:22	24.431	24.627	23.112	23.080	22.165	22.102	22.479	22.416	22.196	23.112
L1	12:44:20	24.463	24.626	23.111	23.079	22.163	22.132	22.477	22.446	22.195	23.111
L1	12:44:50	24.463	24.626	23.111	23.079	22.163	22.132	22.477	22.415	22.195	23.079
L1	12:45:50	24.430	24.593	23.111	23.111	22.132	22.101	22.477	22.415	22.195	23.111
L1	12:47:49	24.461	24.625	23.110	23.110	22.131	22.100	22.508	22.414	22.225	23.078
L2	12:49:49	24.461	24.625	23.110	23.078	22.131	22.099	22.507	22.444	22.193	23.077
L2	12:50:18	24.428	24.656	23.141	23.077	22.162	22.130	22.507	22.413	22.224	23.109
L2	12:51:20	24.428	24.656	23.109	23.077	22.162	22.130	22.476	22.413	22.193	23.109
L2	12:53:18	24.460	24.623	23.108	23.076	22.161	22.130	22.475	22.444	22.224	23.108
L3	12:55:32	24.460	24.623	23.108	23.076	22.161	22.098	22.507	22.444	22.224	23.076
L3	12:57:04	24.427	24.623	23.108	23.076	22.129	22.098	22.506	22.443	22.192	23.108
L3	12:59:02	24.459	24.622	23.107	23.107	22.160	22.097	22.506	22.411	22.223	23.076
L4	13:00:42	24.426	24.622	23.107	23.076	22.160	22.129	22.506	22.411	22.223	23.107
L4	13:01:12	24.459	24.655	23.107	23.076	22.191	22.129	22.506	22.411	22.223	23.076
L4	13:02:42	24.426	24.622	23.107	23.075	22.160	22.128	22.474	22.442	22.222	23.107
L4	13:04:10	24.426	24.622	23.107	23.075	22.191	22.128	22.505	22.442	22.222	23.107
L5	13:05:47	24.426	24.654	23.107	23.107	22.191	22.128	22.474	22.442	22.191	23.107
L5	13:06:16	24.458	24.654	23.138	23.075	22.159	22.128	22.474	22.411	22.191	23.075
L5	13:07:19	24.458	24.621	23.107	23.075	22.159	22.128	22.505	22.442	22.191	23.075
L5	13:09:15	24.458	24.621	23.106	23.106	22.159	22.128	22.473	22.442	22.191	23.075
L6	13:10:59	24.491	24.621	23.106	23.075	22.159	22.128	22.473	22.442	22.222	23.106
L6	13:11:30	24.426	24.621	23.138	23.075	22.159	22.128	22.505	22.410	22.222	23.106
L6	13:12:48	24.458	24.621	23.138	23.106	22.159	22.128	22.505	22.442	22.191	23.075
L6	13:14:29	24.425	24.621	23.106	23.074	22.190	22.096	22.505	22.442	22.190	23.074
L7	13:16:27	24.458	24.654	23.106	23.074	22.159	22.128	22.473	22.442	22.222	23.106
L7	13:16:58	24.458	24.621	23.138	23.074	22.190	22.128	22.505	22.410	22.222	23.106
L7	13:17:59	24.458	24.621	23.106	23.106	22.159	22.128	22.505	22.442	22.190	23.074
L7	13:19:58	24.458	24.621	23.106	23.074	22.159	22.128	22.505	22.442	22.222	23.074
L8	13:22:34	24.458	24.653	23.106	23.074	22.190	22.127	22.504	22.410	22.221	23.106
L8	13:23:35	24.458	24.653	23.138	23.106	22.159	22.127	22.473	22.441	22.190	23.106
L8	13:25:34	24.458	24.653	23.138	23.106	22.159	22.096	22.504	22.441	22.190	23.106
L9	13:28:07	24.458	24.621	23.106	23.106	22.159	22.127	22.504	22.441	22.190	23.074
L9	13:28:38	24.458	24.621	23.106	23.106	22.190	22.096	22.504	22.441	22.190	23.074
L9	13:29:39	24.458	24.621	23.106	23.074	22.159	22.096	22.473	22.410	22.221	23.074
L9	13:31:40	24.457	24.653	23.138	23.074	22.159	22.127	22.504	22.410	22.221	23.106
L10	13:34:53	24.458	24.620	23.138	23.106	22.190	22.096	22.504	22.441	22.221	23.074
L10	13:35:24	24.490	24.653	23.138	23.106	22.190	22.127	22.504	22.410	22.221	23.106
L10	13:36:22	24.458	24.620	23.138	23.106	22.127	22.127	22.504	22.410	22.190	23.106
L10	13:38:25	24.490	24.653	23.106	23.074	22.159	22.127	22.473	22.410	22.221	23.106
U1	13:43:02	24.457	24.621	23.106	23.074	22.190	22.096	22.504	22.441	22.221	23.074
U2	13:47:02	24.457	24.620	23.138	23.074	22.159	22.127	22.504	22.410	22.190	23.106
U3	13:51:18	24.457	24.621	23.106	23.106	22.127	22.127	22.504	22.441	22.192	23.076

Table F.23 continued

VIBRATING WIRE INSTRUMENT READINGS - TEMPERATURE

VLE 4 LOAD NUMBER	TIME	VW STRN TEMP DEG C 53	VW STRN TEMP DEG C 54	VW STRN TEMP DEG C 46	VW STRN TEMP DEG C 45	VW STRN TEMP DEG C 48	VW STRN TEMP DEG C 47	VW STRN TEMP DEG C 49	VW STRN TEMP DEG C 50	VW STRN TEMP DEG C 51	VW STRN TEMP DEG C 52
U4	13:55:35	24.459	24.622	23.107	23.076	22.129	22.098	22.506	22.411	22.191	23.076
U5	13:59:44	24.491	24.655	23.139	23.107	22.160	22.097	22.506	22.380	22.223	23.075
U6	14:04:06	24.458	24.621	23.107	23.075	22.128	22.128	22.473	22.410	22.191	23.107
U7	14:07:56	24.458	24.621	23.106	23.075	22.159	22.097	22.473	22.442	22.191	23.075
U7A	14:11:04	24.458	24.621	23.106	23.075	22.128	22.096	22.473	22.442	22.159	23.075
U7B	14:15:52	24.490	24.621	23.106	23.074	22.127	22.127	22.473	22.379	22.159	23.106

Table F.23 continued

VIBRATING WIRE CALCULATED STRAIN INCREMENTS

VLE 4 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 53	VW STRN MICRO STRAIN 54	VW STRN MICRO STRAIN 46	VW STRN MICRO STRAIN 45	VW STRN MICRO STRAIN 48	VW STRN MICRO STRAIN 47	VW STRN MICRO STRAIN 49	VW STRN MICRO STRAIN 50	VW STRN MICRO STRAIN 51	VW STRN MICRO STRAIN 52
L0	12:34:34	-0.0	-0.0	-0.0	0.1	0.1	-0.0	-0.0	-0.0	-0.1	-0.0
L0	12:41:22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
L1	12:44:20	0.3	0.2	0.8	0.8	1.5	1.9	4.5	3.6	11.6	10.6
L1	12:44:50	0.3	0.2	0.8	0.6	1.5	1.9	4.5	3.6	11.9	11.0
L1	12:45:50	0.3	0.3	0.8	0.6	1.5	2.0	4.5	3.6	11.8	11.0
L1	12:47:49	0.2	0.2	0.8	0.8	1.5	2.0	4.6	3.6	11.8	10.9
L2	12:49:49	0.5	0.4	2.1	2.0	4.6	4.2	8.5	7.7	25.4	22.8
L2	12:50:18	0.6	0.4	2.0	2.0	4.4	4.1	8.5	7.8	25.5	22.9
L2	12:51:20	0.6	0.4	2.0	1.9	4.5	4.1	8.5	7.7	25.4	22.9
L2	12:53:18	0.6	0.4	2.1	1.9	4.4	4.1	8.5	7.8	25.6	22.9
L3	12:55:32	0.9	0.7	3.3	2.9	6.0	6.2	13.1	12.0	37.9	35.5
L3	12:57:04	1.0	0.7	3.1	2.9	5.9	6.3	13.3	12.0	38.0	35.7
L3	12:59:02	0.9	0.7	3.3	2.9	5.8	6.2	13.1	11.9	37.9	35.9
L4	13:00:42	1.4	0.9	3.9	4.6	8.5	8.4	17.2	16.2	50.6	48.3
L4	13:01:12	1.5	0.8	4.0	4.6	8.6	8.5	17.2	16.3	50.9	48.4
L4	13:02:42	1.5	0.9	3.9	4.6	8.6	8.4	17.2	16.2	50.9	48.6
L4	13:04:10	1.5	0.8	3.8	4.6	8.4	8.3	17.1	16.2	51.0	48.5
L5	13:05:47	2.0	1.0	5.0	5.2	9.7	10.3	21.1	20.6	62.5	61.7
L5	13:06:16	1.9	1.0	5.0	5.2	9.7	10.3	21.1	20.6	62.5	61.6
L5	13:07:19	1.9	1.0	5.0	5.2	9.7	10.3	21.0	20.6	62.6	61.9
L5	13:09:15	1.9	1.0	4.9	5.1	9.7	10.3	21.1	20.6	62.6	61.8
L6	13:10:59	2.3	0.9	5.7	6.4	11.2	11.6	24.9	23.9	76.0	74.8
L6	13:11:30	2.4	0.9	5.6	6.4	11.2	11.6	24.9	23.8	76.3	74.8
L6	13:12:48	2.3	0.8	5.6	6.2	11.1	11.6	25.0	24.0	76.4	74.9
L6	13:14:29	2.4	0.9	5.6	6.4	11.1	11.6	24.7	23.9	76.4	75.2
L7	13:16:27	2.7	0.8	6.3	6.6	12.8	12.7	30.5	27.9	88.5	86.6
L7	13:16:58	2.7	0.9	6.2	6.6	12.9	12.6	30.6	27.8	88.9	86.7
L7	13:17:59	2.7	0.8	6.3	6.6	12.8	12.7	30.8	28.0	89.0	86.9
L7	13:19:58	2.8	0.8	6.2	6.6	12.8	12.6	30.8	27.9	88.9	86.9
L8	13:22:34	3.0	0.7	6.7	7.3	13.9	14.5	33.9	31.2	100.7	99.6
L8	13:23:35	3.0	0.8	6.7	7.1	14.0	14.5	33.8	31.3	101.3	99.3
L8	13:25:34	2.9	0.7	6.7	7.1	13.9	14.5	34.0	31.2	101.3	99.7
L9	13:28:07	3.2	0.7	7.5	8.9	15.7	16.3	37.3	34.9	114.2	111.8
L9	13:28:38	3.1	0.7	7.4	8.8	15.6	16.1	36.6	35.2	114.0	111.0
L9	13:29:39	3.1	0.8	7.5	8.7	15.5	16.3	37.3	35.3	114.4	111.6
L9	13:31:40	3.1	0.7	7.3	8.8	15.7	16.2	37.1	35.1	114.6	111.8
L10	13:34:53	3.2	0.9	7.9	9.1	17.2	17.2	41.9	38.0	126.2	122.0
L10	13:35:24	3.1	0.8	7.9	9.1	17.2	16.9	42.0	38.1	126.7	122.9
L10	13:36:22	3.1	0.8	7.9	9.1	17.1	17.1	42.0	38.1	126.1	124.2
L10	13:38:25	3.1	0.8	8.0	9.1	17.0	17.1	42.1	37.8	126.9	122.2
U1	13:43:02	1.9	0.8	5.4	6.6	11.7	12.1	30.0	28.1	99.4	96.4
U2	13:47:02	1.4	1.0	3.7	4.9	8.8	8.9	25.0	21.4	81.4	79.7
U3	13:51:18	1.1	1.0	3.1	4.3	6.6	7.1	20.6	18.0	68.6	68.1

Table F.23 continued

VIBRATING WIRE CALCULATED STRAIN INCREMENTS

VLE 4 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 53	VW STRN MICRO STRAIN 54	VW STRN MICRO STRAIN 46	VW STRN MICRO STRAIN 45	VW STRN MICRO STRAIN 48	VW STRN MICRO STRAIN 47	VW STRN MICRO STRAIN 49	VW STRN MICRO STRAIN 50	VW STRN MICRO STRAIN 51	VW STRN MICRO STRAIN 52
U4	13:55:35	0.6	0.5	1.3	2.3	4.7	4.7	16.5	12.7	51.5	50.6
U5	13:59:44	0.3	-0.1	-0.0	1.4	2.5	2.7	10.1	8.3	33.5	33.9
U6	14:04:06	-0.0	-0.7	-1.0	0.0	0.3	0.5	4.4	3.6	16.3	16.8
U7	14:07:56	-0.4	-0.6	-2.4	-1.1	-1.7	-1.4	0.0	-0.5	4.0	2.2
U7A	14:11:04	-0.5	-0.6	-2.3	-0.9	-1.7	-1.4	-0.0	-0.5	4.2	2.2
U7B	14:15:52	-0.5	-0.6	-2.4	-1.0	-1.8	-1.5	0.1	-0.5	0.9	1.7

Table F.23 continued

VIBRATING WIRE CALCULATED STRAIN (4 MINUTE READINGS)

VLE 4 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 53	VW STRN MICRO STRAIN 54	VW STRN MICRO STRAIN 46	VW STRN MICRO STRAIN 45	VW STRN MICRO STRAIN 48	VW STRN MICRO STRAIN 47	VW STRN MICRO STRAIN 49	VW STRN MICRO STRAIN 50	VW STRN MICRO STRAIN 51	VW STRN MICRO STRAIN 52
L0	12:41:22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
L1	12:47:49	0.2	0.2	0.8	0.8	1.5	2.0	4.6	3.6	11.8	10.9
L2	12:53:18	0.6	0.4	2.1	1.9	4.4	4.1	8.5	7.8	25.6	22.9
L3	12:59:02	0.9	0.7	3.3	2.9	5.8	6.2	13.1	11.9	37.9	35.9
L4	13:04:10	1.5	0.8	3.8	4.6	8.4	8.3	17.1	16.2	51.0	48.5
L5	13:09:15	1.9	1.0	4.9	5.1	9.7	10.3	21.1	20.6	62.6	61.8
L6	13:14:29	2.4	0.9	5.6	6.4	11.1	11.6	24.7	23.9	76.4	75.2
L7	13:19:58	2.8	0.8	6.2	6.6	12.8	12.6	30.8	27.9	88.9	86.9
L8	13:25:34	2.9	0.7	6.7	7.1	13.9	14.5	34.0	31.2	101.3	99.7
L9	13:31:40	3.1	0.7	7.3	8.8	15.7	16.2	37.1	35.1	114.6	111.8
L10	13:38:25	3.1	0.8	8.0	9.1	17.0	17.1	42.1	37.8	126.9	122.2
U1	13:43:02	1.9	0.8	5.4	6.6	11.7	12.1	30.0	28.1	99.4	96.4
U2	13:47:02	1.4	1.0	3.7	4.9	8.8	8.9	25.0	21.4	81.4	79.7
U3	13:51:18	1.1	1.0	3.1	4.3	6.6	7.1	20.6	18.0	68.6	68.1
U4	13:55:35	0.6	0.5	1.3	2.3	4.7	4.7	16.5	12.7	51.5	50.6
U5	13:59:44	0.3	-0.1	-0.0	1.4	2.5	2.7	10.1	8.3	33.5	33.9
U6	14:04:06	-0.0	-0.7	-1.0	0.0	0.3	0.5	4.4	3.6	16.3	16.8
U7	14:07:56	-0.4	-0.6	-2.4	-1.1	-1.7	-1.4	0.0	-0.5	4.0	2.2
U7A	14:11:04	-0.5	-0.6	-2.3	-0.9	-1.7	-1.4	-0.0	-0.5	4.2	2.2
U7B	14:15:52	-0.5	-0.6	-2.4	-1.0	-1.8	-1.5	0.1	-0.5	0.9	1.7

Table F.23 continued

AVERAGE STRAIN AT EACH GAGE LEVEL, INTEGRATED PILE COMPRESSION & COMPARISON WITH TELLTALE MEASUREMENT (4 MINUTE READINGS)

VLE 4 LOAD NUMBER	AVG VW MICRO STRAIN SURFACE	AVG VW MICRO STRAIN 53+54	AVG VW MICRO STRAIN 46+45	AVG VW MICRO STRAIN 48+47	AVG VW MICRO STRAIN 49+50	AVG VW MICRO STRAIN 51+52	EST'D. MICRO STRAIN CELL TOP	PILE COMPRESSION SG MSMT. INCHES	TT MSMT. INCHES	ABS.DIFF. SG-TT INCHES
L0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0000	0.0000	0.0000
L1	0.0	0.2	0.8	1.7	4.1	11.4	12.7	0.0014	0.0009	0.0005
L2	0.0	0.5	2.0	4.2	8.1	24.3	25.5	0.0030	0.0020	0.0010
L3	0.0	0.8	3.1	6.0	12.5	36.9	38.0	0.0045	0.0033	0.0012
L4	0.0	1.2	4.2	8.4	16.6	49.8	50.6	0.0061	0.0046	0.0015
L5	0.0	1.5	5.0	10.0	20.8	62.2	62.9	0.0076	0.0056	0.0019
L6	0.0	1.7	6.0	11.4	24.3	75.8	75.9	0.0090	0.0069	0.0022
L7	0.0	1.8	6.4	12.7	29.3	87.9	88.0	0.0105	0.0081	0.0024
L8	0.0	1.8	6.9	14.2	32.6	100.5	100.4	0.0119	0.0094	0.0025
L9	0.0	1.9	8.1	15.9	36.1	113.2	112.9	0.0133	0.0107	0.0027
L10	0.0	2.0	8.5	17.1	40.0	124.5	124.4	0.0146	0.0119	0.0027
U1	0.0	1.4	6.0	11.9	29.0	97.9	95.9	0.0111	0.0092	0.0019
U2	0.0	1.2	4.3	8.9	23.2	80.6	78.0	0.0089	0.0071	0.0018
U3	0.0	1.0	3.7	6.8	19.3	68.4	66.0	0.0075	0.0061	0.0014
U4	0.0	0.6	1.8	4.7	14.6	51.1	48.2	0.0055	0.0044	0.0011
U5	0.0	0.1	0.7	2.6	9.2	33.7	31.7	0.0035	0.0029	0.0006
U6	0.0	-0.4	-0.5	0.4	4.0	16.5	15.0	0.0015	0.0014	0.0002
U7	0.0	-0.5	-1.8	-1.5	-0.2	3.1	2.0	-0.0001	0.0003	-0.0003
U7A	0.0	-0.5	-1.6	-1.5	-0.3	3.2	2.0	-0.0001	0.0002	-0.0003
U7B	0.0	-0.5	-1.7	-1.7	-0.2	1.3	0.8	-0.0002	0.0002	-0.0004

ELEV. FT	3.57	-2.47	-6.96	-12.96	-19.46	-29.96	-30.46

Table F.23 continued

VIBRATING WIRE CALCULATED AVERAGE LOADS (4 MINUTE READINGS)

LA = 10.50 ft
LB = 1.38 ft
B = 18.00 in
ES = 27500.0 ksi

ACA = 317.115 si
ACB = 313.155 si
ASA = 3.538 si
ASB = 7.498 si

VLE 4 LOAD NUMBER	AVG VW LOAD TONS SURFACE	AVG VW LOAD TONS 53+54	AVG VW LOAD TONS 46+45	AVG VW LOAD TONS 48+47	AVG VW LOAD TONS 49+50	AVG VW LOAD TONS 51+52	OSTERBERG LOAD TONS BOTTOM	INCR. PILE MODULUS KSI	CALC. PILE A MODULUS KSI	CALC. PILE B MODULUS KSI
L0	0.0	0.00	0.00	0.00	0.00	0.00	0.0		4972.6	5250.4
L1	0.0	0.17	0.62	1.39	3.29	9.66	12.9	7010.4	4972.6	5250.4
L2	0.0	0.39	1.61	3.41	6.56	20.63	23.6	5100.4	4972.6	5250.4
L3	0.0	0.64	2.49	4.85	10.09	31.38	33.9	5052.4	4972.6	5250.4
L4	0.0	0.94	3.39	6.73	13.39	42.34	44.3	4965.1	4972.6	5250.4
L5	0.0	1.19	4.05	8.05	16.77	52.90	54.6	5123.3	4972.6	5250.4
L6	0.0	1.34	4.85	9.15	19.59	64.48	64.7	4610.8	4972.6	5250.4
L7	0.0	1.47	5.18	10.24	23.61	74.79	75.0	5210.6	4972.6	5250.4
L8	0.0	1.48	5.58	11.44	26.24	85.47	85.2	5019.6	4972.6	5250.4
L9	0.0	1.52	6.51	12.83	29.09	96.27	95.7	5092.3	4972.6	5250.4
L10	0.0	1.58	6.89	13.75	32.18	105.91	105.7	5474.4	4972.6	5250.4
U1	0.0	1.11	4.86	9.56	23.37	83.26	78.5		4972.6	5250.4
U2	0.0	0.99	3.45	7.14	18.69	68.52	62.5		4972.6	5250.4
U3	0.0	0.84	3.00	5.50	15.53	58.15	52.6		4972.6	5250.4
U4	0.0	0.47	1.44	3.81	11.75	43.44	36.8		4972.6	5250.4
U5	0.0	0.10	0.53	2.08	7.40	28.64	24.0		4972.6	5250.4
U6	0.0	-0.29	-0.37	0.33	3.24	14.07	10.5		4972.6	5250.4
U7	0.0	-0.40	-1.42	-1.25	-0.17	2.66	0.0		4972.6	5250.4
U7A	0.0	-0.42	-1.31	-1.24	-0.21	2.71	0.0		4972.6	5250.4
U7B	0.0	-0.41	-1.39	-1.34	-0.19	1.09	0.0		4972.6	5250.4

ELEV. FT	3.57	-2.47	-6.96	-12.96	-19.46	-29.96	-31.34	4773.8 KSI = CONCRETE MODULUS

Table F.23 continued

INTEGRATED MOVEMENT AT VW STRAIN GAGE (4 MINUTE READINGS)

VLE 4 LOAD NUMBER	VW MOVEMENT INCHES SURFACE	VW MOVEMENT INCHES 53+54	VW MOVEMENT INCHES 46+45	VW MOVEMENT INCHES 48+47	VW MOVEMENT INCHES 49+50	VW MOVEMENT INCHES 51+52	VW MOVEMENT INCHES CELL TOP
L0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L1	-0.0007	-0.0007	-0.0007	-0.0005	-0.0002	0.0008	0.0009
L2	-0.0013	-0.0013	-0.0012	-0.0009	-0.0002	0.0018	0.0020
L3	0.0033	0.0033	0.0034	0.0040	0.0049	0.0081	0.0083
L4	0.0029	0.0029	0.0031	0.0038	0.0051	0.0093	0.0096
L5	0.0122	0.0123	0.0125	0.0134	0.0150	0.0203	0.0206
L6	0.0118	0.0119	0.0121	0.0132	0.0151	0.0214	0.0219
L7	0.0114	0.0114	0.0116	0.0129	0.0152	0.0226	0.0231
L8	0.0112	0.0112	0.0115	0.0129	0.0154	0.0238	0.0244
L9	0.0208	0.0209	0.0212	0.0227	0.0256	0.0350	0.0357
L10	0.0255	0.0256	0.0259	0.0276	0.0308	0.0411	0.0419
U1	0.0218	0.0219	0.0221	0.0233	0.0256	0.0336	0.0342
U2	0.0221	0.0222	0.0223	0.0233	0.0251	0.0317	0.0321
U3	0.0176	0.0177	0.0178	0.0186	0.0201	0.0257	0.0261
U4	0.0182	0.0182	0.0183	0.0189	0.0200	0.0241	0.0244
U5	0.0139	0.0139	0.0139	0.0143	0.0150	0.0177	0.0179
U6	0.0146	0.0146	0.0145	0.0147	0.0150	0.0163	0.0164
U7	0.0152	0.0152	0.0151	0.0151	0.0151	0.0152	0.0153
U7A	0.0152	0.0152	0.0151	0.0151	0.0150	0.0152	0.0152
U7B	0.0103	0.0103	0.0102	0.0102	0.0101	0.0102	0.0102

Table F.23 continued

INTEGRATED MOVEMENT AT SEGMENT CL (4 MINUTE READINGS)

VLE 4 LOAD NUMBER	AVG VW MOVEMENT INCHES	AVG VW MOVEMENT INCHES	AVG VW MOVEMENT INCHES	AVG VW MOVEMENT INCHES	AVG VW MOVEMENT INCHES
CL.ELEV.	0.55	-4.72	-9.96	-16.21	-24.71
L0	0.0000	0.0000	0.0000	0.0000	0.0000
L1	0.0000	0.0000	0.0000	0.0000	0.0003
L2	0.0000	0.0000	0.0000	0.0000	0.0008
L3	0.0033	0.0033	0.0037	0.0044	0.0065
L4	0.0029	0.0030	0.0035	0.0045	0.0072
L5	0.0123	0.0124	0.0129	0.0142	0.0176
L6	0.0119	0.0120	0.0127	0.0141	0.0183
L7	0.0114	0.0115	0.0123	0.0141	0.0189
L8	0.0112	0.0113	0.0122	0.0142	0.0196
L9	0.0209	0.0210	0.0220	0.0242	0.0303
L10	0.0256	0.0257	0.0268	0.0292	0.0359
U1	0.0219	0.0220	0.0227	0.0245	0.0296
U2	0.0221	0.0222	0.0228	0.0242	0.0284
U3	0.0177	0.0177	0.0182	0.0194	0.0229
U4	0.0182	0.0182	0.0186	0.0194	0.0221
U5	0.0139	0.0139	0.0141	0.0146	0.0163
U6	0.0146	0.0145	0.0146	0.0148	0.0156
U7	0.0152	0.0152	0.0151	0.0151	0.0151
U7A	0.0152	0.0152	0.0151	0.0151	0.0151
U7B	0.0103	0.0103	0.0102	0.0101	0.0102

Table F.23 continued

AVERAGE SEGMENT SHEAR STRESS (4 MINUTE READINGS)

VLE 4 LOAD NUMBER CL.ELEV.	AVG VW SHEAR TSF 0.55	AVG VW SHEAR TSF -4.72	AVG VW SHEAR TSF -9.96	AVG VW SHEAR TSF -16.21	AVG VW SHEAR TSF -24.71
L0	-0.016	-0.016	-0.016	-0.016	-0.016
L1	-0.012	0.000	0.005	0.032	0.085
L2	-0.006	0.029	0.033	0.064	0.207
L3	0.001	0.052	0.049	0.118	0.322
L4	0.009	0.074	0.077	0.154	0.443
L5	0.016	0.090	0.095	0.207	0.557
L6	0.020	0.114	0.103	0.251	0.696
L7	0.024	0.122	0.124	0.326	0.796
L8	0.024	0.136	0.146	0.363	0.924
L9	0.025	0.169	0.159	0.401	1.050
L10	0.027	0.181	0.174	0.456	1.154
U1	0.014	0.123	0.114	0.338	0.934
U2	0.011	0.075	0.086	0.280	0.775
U3	0.007	0.064	0.053	0.241	0.660
U4	-0.004	0.020	0.049	0.187	0.487
U5	-0.014	-0.000	0.027	0.120	0.321
U6	-0.024	-0.019	0.003	0.058	0.155
U7	-0.027	-0.054	-0.012	0.011	0.029
U7A	-0.028	-0.049	-0.014	0.010	0.030
U7B	-0.028	-0.053	-0.015	0.013	0.004

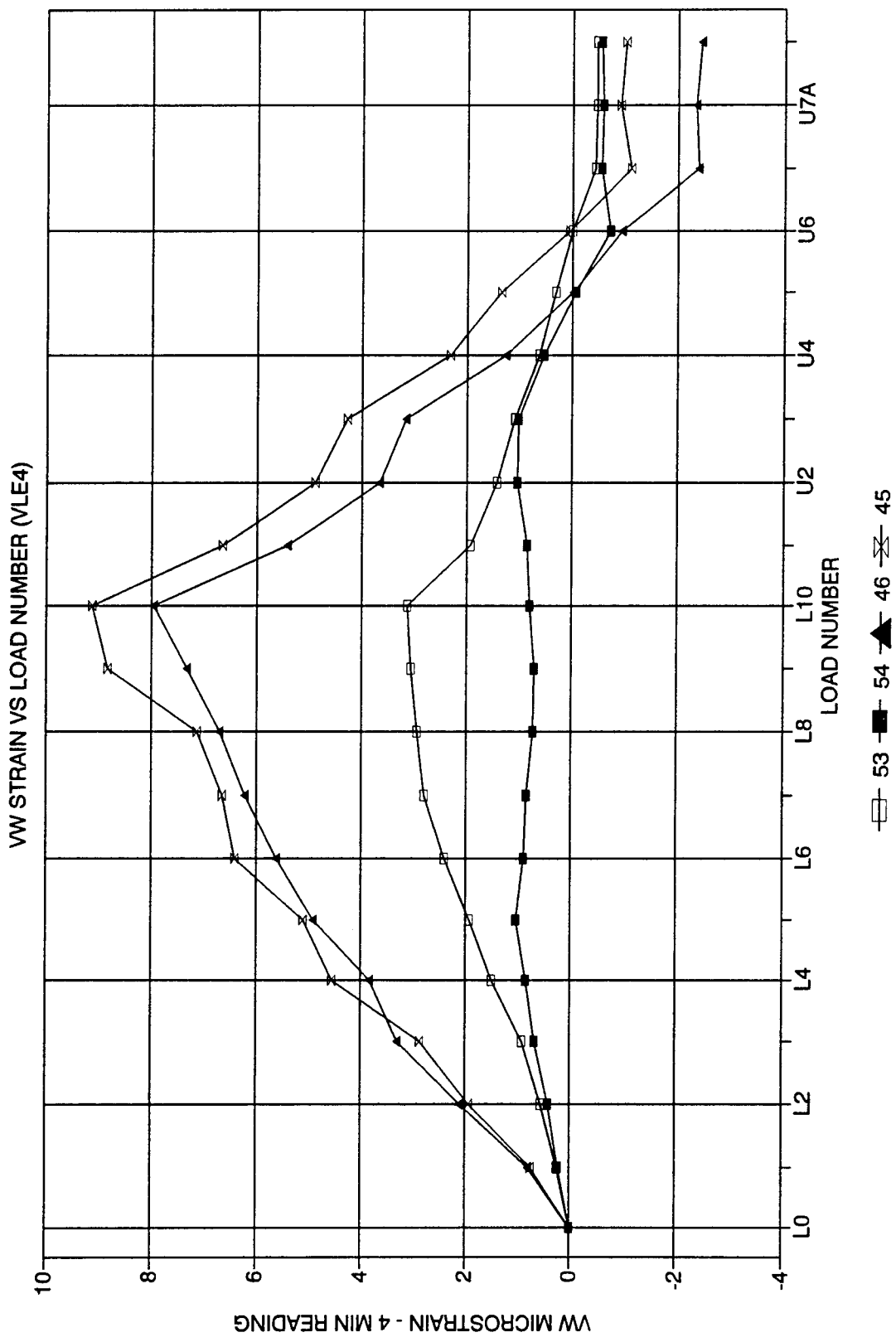

Figure F.119 Strain at Pile Top: Vilano East Load Test 4

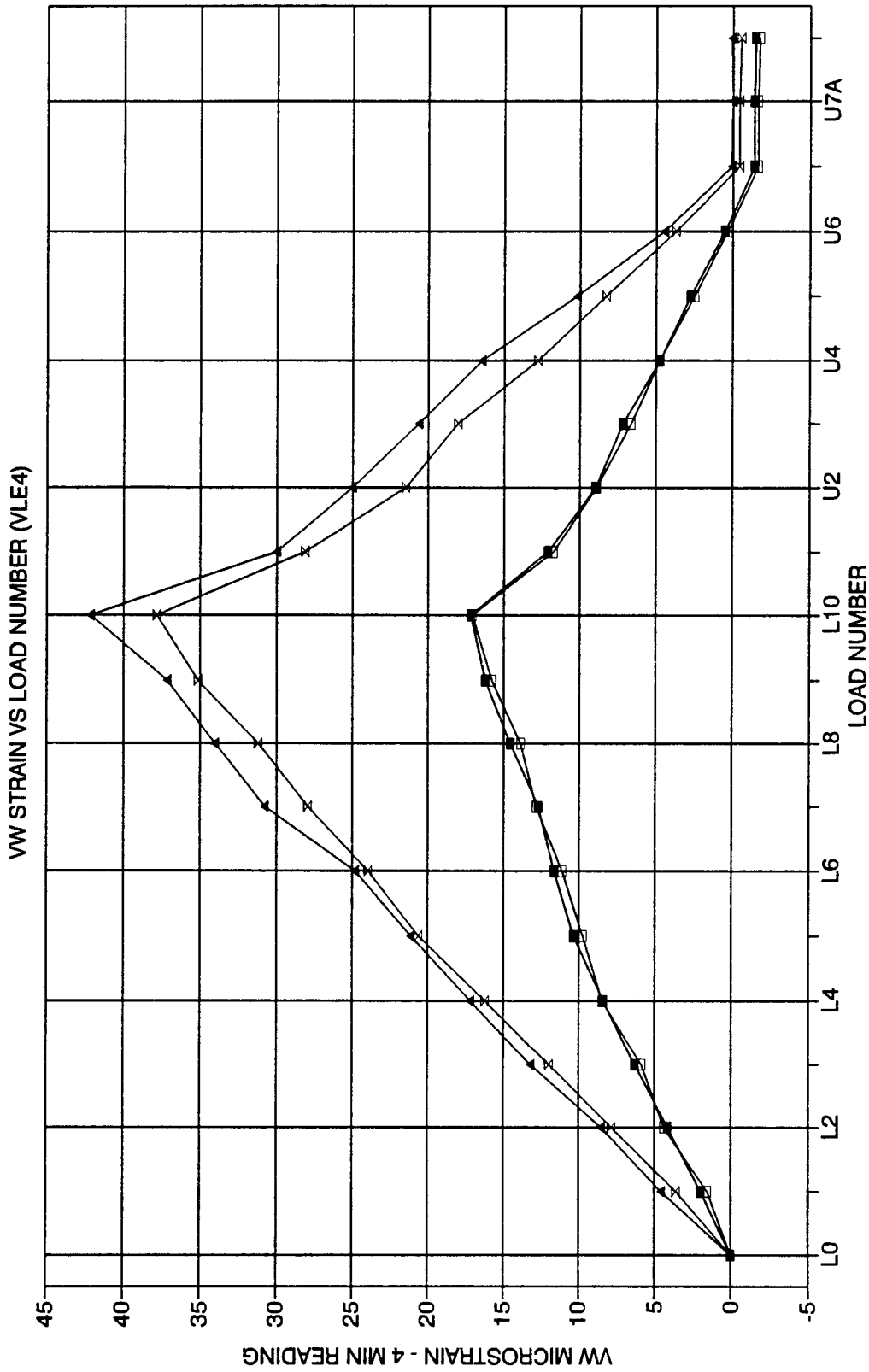

Figure F.120 Strain at Pile Middle: Vilano East Load Test 4

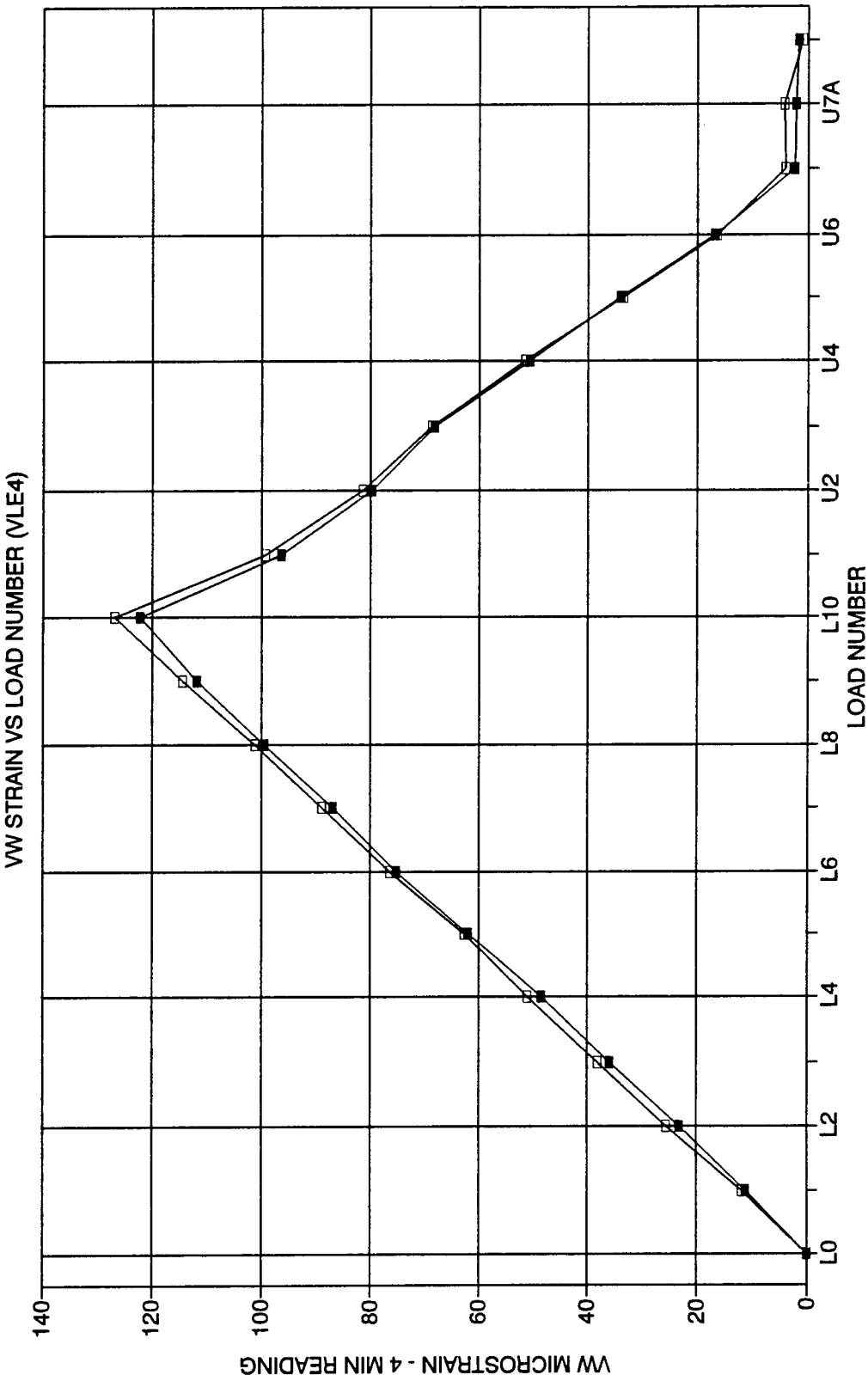

Figure F.121 Strain at Pile Bottom: Vilano East Load Test 4

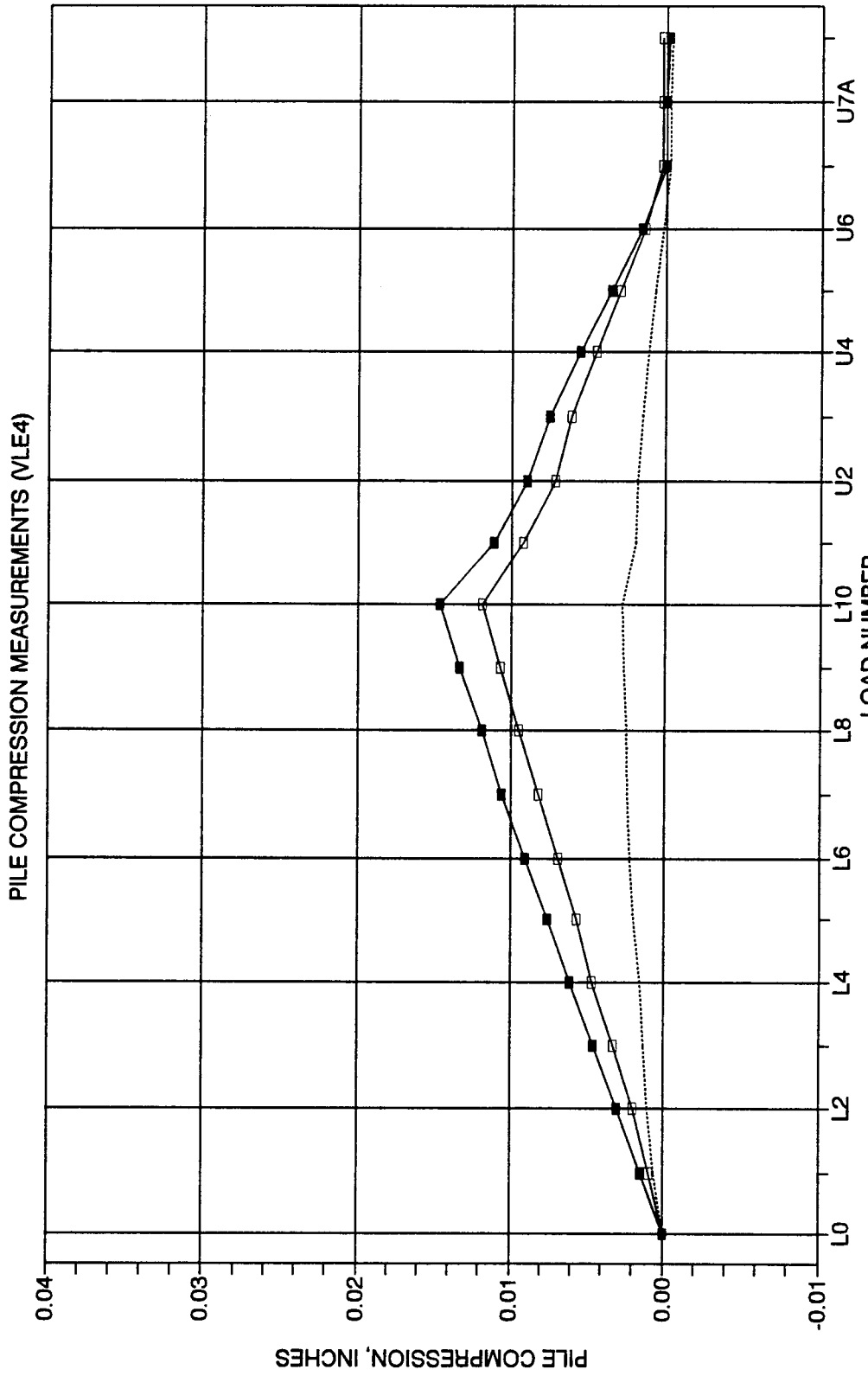

Figure F.122 Pile Compression Measurements: Vilano East Load Test 4

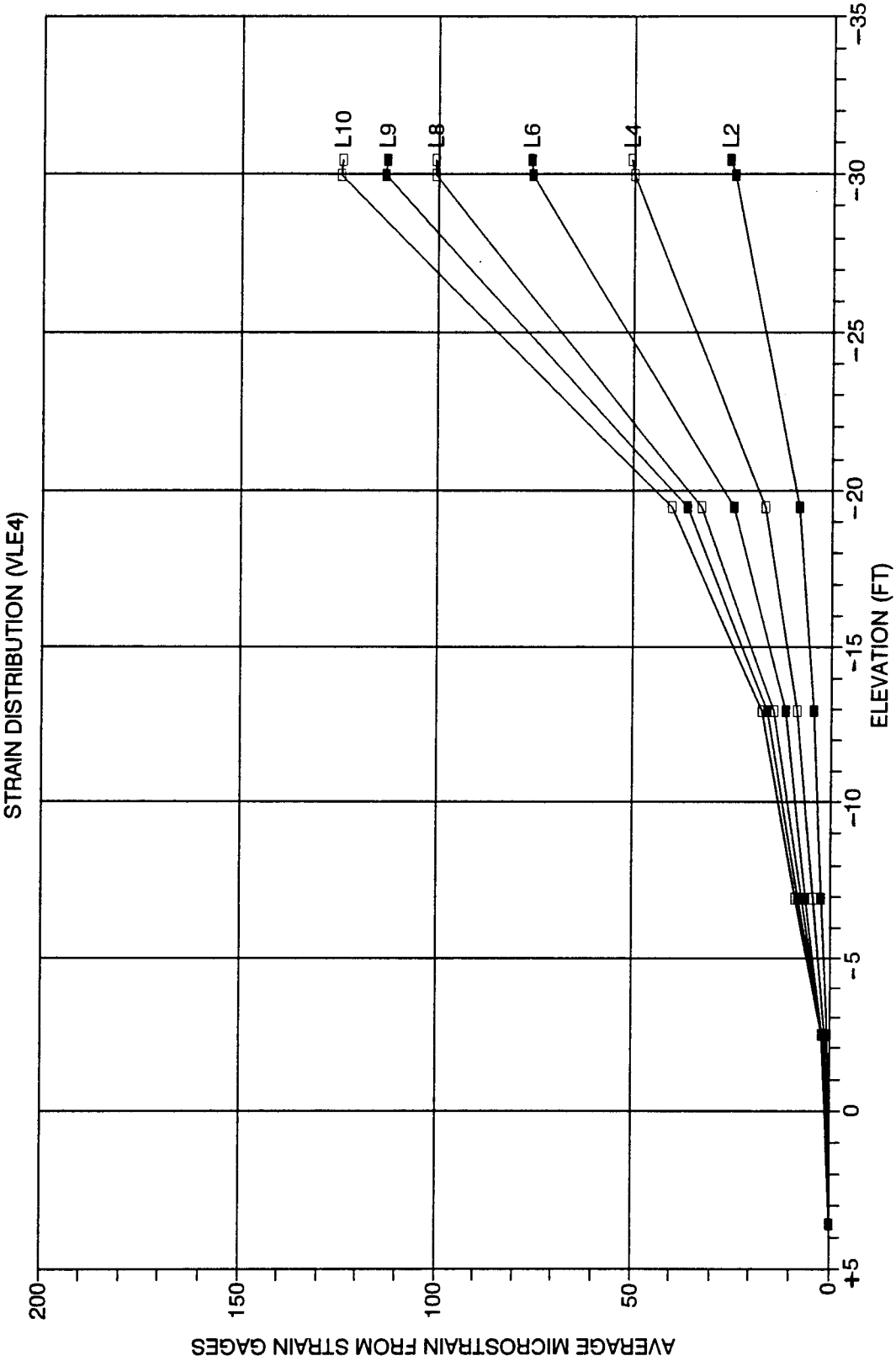

Figure F.123 Pile Strain Distribution: Vilano East Load Test 4

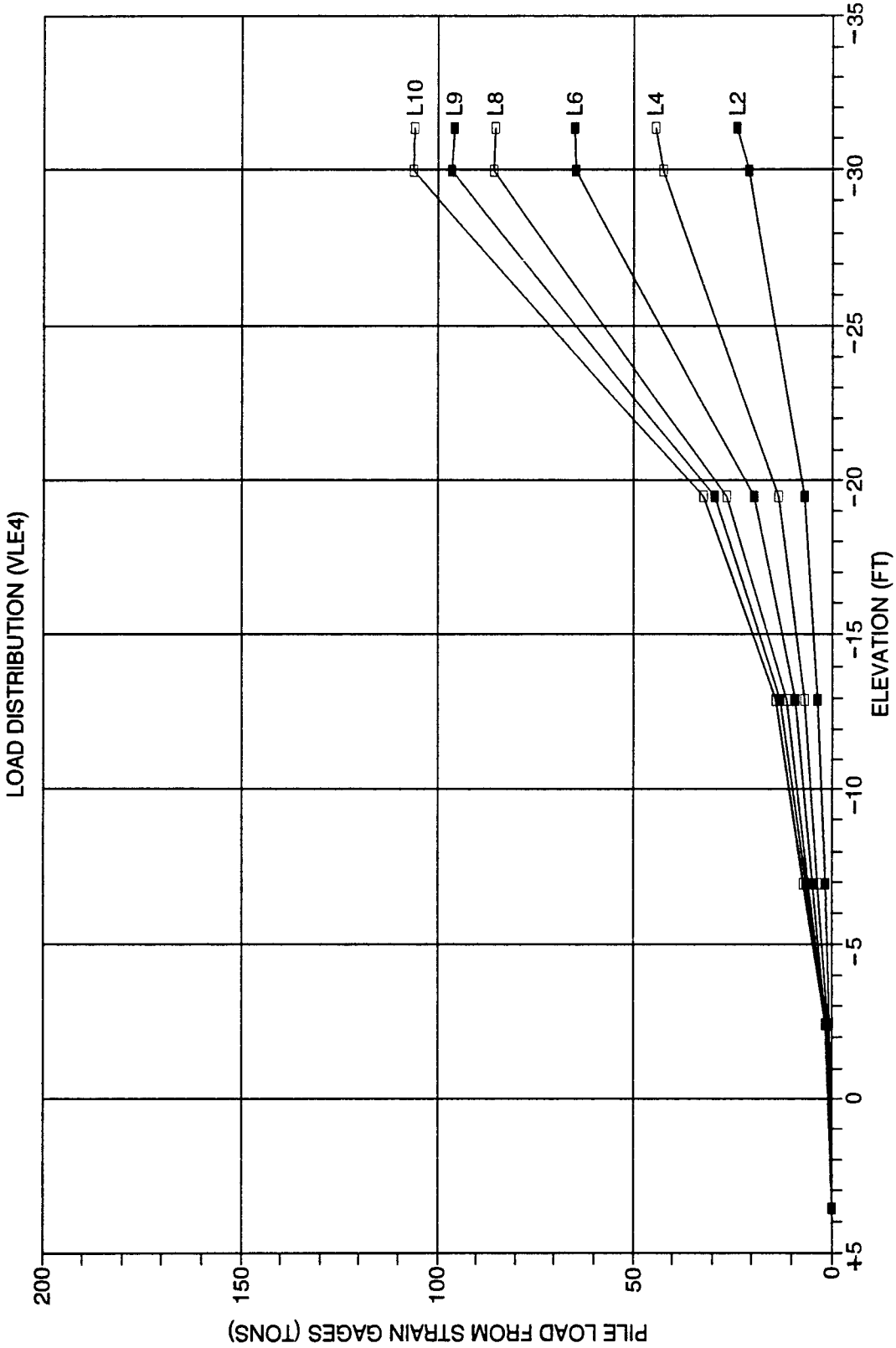

Figure F.124 Pile Load Distribution: Vilano East Load Test 4

Table F.24 Strain Analyses: Vilano West Load Test 1

VIBRATING WIRE INSTRUMENT READINGS - STRAIN

VLW 1 LOAD NUMBER	TIME	VW STRN FREQ^2 KHZ^2 1	VW STRN FREQ^2 KHZ^2 2	VW STRN FREQ^2 KHZ^2 31	VW STRN FREQ^2 KHZ^2 32	VW STRN FREQ^2 KHZ^2 33	VW STRN FREQ^2 KHZ^2 34	VW STRN FREQ^2 KHZ^2 19	VW STRN FREQ^2 KHZ^2 20	VW STRN FREQ^2 KHZ^2 9	VW STRN FREQ KHZ^2 10	VW STRN FREQ KHZ^2 11	VW STRN FREQ KHZ^2 12	VW STRN FREQ KHZ^2 39	VW STRN FREQ KHZ^2 40
L0	17:00:00	0.71387	0.68024	0.72773	0.65614	0.67467	0.59728	0.65411	0.68151	0.65732	0.64937	0.73748	0.75622	0.83253	0.76380
L0	17:15:00	0.71391	0.68054	0.72772	0.65612	0.67472	0.59748	0.65428	0.68168	0.65768	0.64949	0.73746	0.75641	0.83255	0.76394
L0	17:30:00	0.71399	0.68076	0.72771	0.65626	0.67495	0.59759	0.65434	0.68186	0.65782	0.64958	0.73745	0.75651	0.83256	0.76404
L0	17:45:00	0.71400	0.68073	0.72776	0.65631	0.67501	0.59769	0.65436	0.68196	0.65793	0.64968	0.73744	0.75669	0.83260	0.76415
L0	18:00:00	0.71403	0.68075	0.72783	0.65635	0.67506	0.59783	0.65439	0.68203	0.65799	0.64982	0.73743	0.75687	0.83264	0.76425
L0	18:15:00	0.71401	0.68086	0.72785	0.65652	0.67518	0.59804	0.65444	0.68213	0.65807	0.65020	0.73744	0.75706	0.83274	0.76434
L0	18:30:00	0.71413	0.68086	0.72794	0.65660	0.67526	0.59828	0.65453	0.68220	0.65815	0.65031	0.73745	0.75716	0.83371	0.76441
L0	18:45:00	0.71405	0.68105	0.72801	0.65679	0.67533	0.59841	0.65462	0.68228	0.65822	0.65031	0.73744	0.75718	0.83372	0.76449
L0	19:00:00	0.71411	0.68113	0.72801	0.65688	0.67536	0.59837	0.65467	0.68234	0.65826	0.65036	0.73743	0.75719	0.83371	0.76452
L0	19:15:00	0.71416	0.68120	0.72803	0.65697	0.67540	0.59822	0.65474	0.68239	0.65829	0.65046	0.73741	0.75718	0.83372	0.76460
L0	19:30:00	0.71412	0.68128	0.72804	0.65704	0.67544	0.59827	0.65495	0.68246	0.65832	0.65056	0.73741	0.75719	0.83370	0.76468
L0	19:45:00	0.71418	0.68135	0.72807	0.65711	0.67552	0.59839	0.65516	0.68256	0.65834	0.65066	0.73741	0.75719	0.83367	0.76474
L0	20:00:00	0.71417	0.68140	0.72808	0.65714	0.67563	0.59861	0.65514	0.68263	0.65837	0.65075	0.73743	0.75722	0.83372	0.76478
L0	20:15:00	0.71427	0.68143	0.72809	0.65718	0.67574	0.59907	0.65510	0.68268	0.65839	0.65078	0.73742	0.75724	0.83367	0.76483
L0	20:30:00	0.71427	0.68150	0.72847	0.65726	0.67583	0.59880	0.65514	0.68273	0.65839	0.65089	0.73742	0.75726	0.83368	0.76486
L0	20:45:46	0.71426	0.68157	0.72849	0.65734	0.67593	0.59876	0.65524	0.68283	0.65844	0.65097	0.73740	0.75730	0.83370	0.76491
L0	20:46:46	0.71427	0.68159	0.72850	0.65734	0.67594	0.59877	0.65525	0.68282	0.65843	0.65096	0.73742	0.75731	0.83367	0.76490
L0	20:53:05	0.71421	0.68160	0.72848	0.65739	0.67595	0.59881	0.65529	0.68287	0.65847	0.65096	0.73741	0.75728	0.83363	0.76492
L0	20:58:48	0.71432	0.68158	0.72842	0.65741	0.67600	0.59883	0.65534	0.68290	0.65847	0.65101	0.73741	0.75731	0.83366	0.76493
L1	21:11:22	0.71430	0.68169	0.72838	0.65743	0.67596	0.59893	0.65545	0.68295	0.65852	0.65098	0.73743	0.75734	0.83365	0.76484
L1	21:11:58	0.71427	0.68168	0.72835	0.65741	0.67604	0.59893	0.65543	0.68295	0.65852	0.65096	0.73744	0.75734	0.83369	0.76486
L1	21:12:53	0.71427	0.68170	0.72838	0.65742	0.67604	0.59895	0.65546	0.68294	0.65853	0.65094	0.73744	0.75734	0.83365	0.76485
L1	21:14:51	0.71426	0.68168	0.72841	0.65740	0.67604	0.59896	0.65546	0.68296	0.65852	0.65093	0.73744	0.75734	0.83364	0.76485
L2	21:17:13	0.71438	0.68162	0.72842	0.65740	0.67604	0.59899	0.65550	0.68296	0.65855	0.65094	0.73743	0.75734	0.83366	0.76473
L2	21:18:38	0.71432	0.68164	0.72841	0.65739	0.67603	0.59899	0.65548	0.68294	0.65852	0.65094	0.73745	0.75734	0.83367	0.76473
L2	21:20:38	0.71428	0.68167	0.72850	0.65739	0.67591	0.59900	0.65553	0.68295	0.65856	0.65096	0.73746	0.75735	0.83371	0.76475
L3	21:22:07	0.71430	0.68165	0.72841	0.65740	0.67605	0.59900	0.65551	0.68295	0.65853	0.65097	0.73744	0.75732	0.83371	0.76452
L3	21:22:54	0.71435	0.68168	0.72851	0.65741	0.67604	0.59901	0.65552	0.68299	0.65853	0.65096	0.73744	0.75733	0.83371	0.76455
L3	21:23:46	0.71427	0.68165	0.72847	0.65739	0.67587	0.59903	0.65553	0.68300	0.65855	0.65096	0.73744	0.75733	0.83372	0.76453
L3	21:25:36	0.71427	0.68167	0.72850	0.65739	0.67602	0.59905	0.65555	0.68298	0.65855	0.65095	0.73746	0.75735	0.83373	0.76453
L4	21:27:01	0.71428	0.68169	0.72845	0.65741	0.67606	0.59904	0.65552	0.68295	0.65852	0.65097	0.73746	0.75729	0.83372	0.76433
L4	21:27:32	0.71431	0.68166	0.72852	0.65740	0.67603	0.59904	0.65551	0.68299	0.65853	0.65096	0.73744	0.75729	0.83371	0.76432
L4	21:28:31	0.71431	0.68170	0.72850	0.65737	0.67601	0.59905	0.65553	0.68295	0.65852	0.65095	0.73744	0.75730	0.83373	0.76433
L4	21:30:32	0.71435	0.68172	0.72848	0.65739	0.67600	0.59909	0.65555	0.68298	0.65854	0.65095	0.73746	0.75729	0.83371	0.76433
L5	21:32:01	0.71434	0.68166	0.72853	0.65739	0.67603	0.59907	0.65550	0.68295	0.65848	0.65097	0.73745	0.75721	0.83372	0.76395
L5	21:32:38	0.71433	0.68166	0.72853	0.65737	0.67603	0.59907	0.65550	0.68295	0.65847	0.65097	0.73745	0.75721	0.83373	0.76395
L5	21:33:35	0.71435	0.68170	0.72854	0.65738	0.67602	0.59907	0.65550	0.68296	0.65848	0.65096	0.73745	0.75721	0.83371	0.76395
L5	21:35:25	0.71433	0.68165	0.72854	0.65739	0.67600	0.59909	0.65551	0.68300	0.65848	0.65097	0.73745	0.75720	0.83372	0.76396
L6	21:37:04	0.71435	0.68170	0.72857	0.65738	0.67597	0.59905	0.65539	0.68295	0.65838	0.65100	0.73742	0.75717	0.83255	0.76347
L6	21:37:36	0.71434	0.68164	0.72853	0.65738	0.67605	0.59905	0.65538	0.68292	0.65837	0.65100	0.73741	0.75715	0.83255	0.76348
L6	21:38:32	0.71436	0.68170	0.72850	0.65740	0.67604	0.59906	0.65540	0.68293	0.65837	0.65098	0.73741	0.75719	0.83254	0.76348
L6	21:40:33	0.71434	0.68170	0.72860	0.65740	0.67604	0.59909	0.65542	0.68298	0.65838	0.65101	0.73742	0.75719	0.83254	0.76348
L7	21:42:14	0.71434	0.68164	0.72856	0.65735	0.67599	0.59900	0.65518	0.68273	0.65818	0.65078	0.73719	0.75665	0.83245	0.76285

Table F.24 continued

VIBRATING WIRE INSTRUMENT READINGS - STRAIN

VLW 1 LOAD NUMBER	TIME	VW STRN FREQ^2 KHZ^2 1	VW STRN FREQ^2 KHZ^2 2	VW STRN FREQ^2 KHZ^2 31	VW STRN FREQ^2 KHZ^2 32	VW STRN FREQ^2 KHZ^2 33	VW STRN FREQ^2 KHZ^2 34	VW STRN FREQ^2 KHZ^2 19	VW STRN FREQ^2 KHZ^2 20	VW STRN FREQ^2 KHZ^2 9	VW STRN FREQ KHZ^2 10	VW STRN FREQ KHZ^2 11	VW STRN FREQ KHZ^2 12	VW STRN FREQ KHZ^2 39	VW STRN FREQ KHZ^2 40
L7	21:42:47	0.71432	0.68163	0.72856	0.65742	0.67599	0.59899	0.65517	0.68271	0.65812	0.65076	0.73718	0.75665	0.83245	0.76285
L7	21:43:44	0.71437	0.68171	0.72857	0.65741	0.67599	0.59900	0.65515	0.68273	0.65815	0.65077	0.73717	0.75661	0.83250	0.76283
L7	21:45:43	0.71436	0.68160	0.72859	0.65740	0.67600	0.59900	0.65516	0.68271	0.65811	0.65075	0.73719	0.75659	0.83244	0.76281
L8	21:47:12	0.71431	0.68164	0.72854	0.65740	0.67576	0.59890	0.65517	0.68252	0.65719	0.65043	0.73673	0.75606	0.83214	0.76216
L8	21:47:43	0.71436	0.68157	0.72850	0.65737	0.67586	0.59890	0.65517	0.68254	0.65769	0.65042	0.73674	0.75604	0.83216	0.76214
L8	21:48:46	0.71434	0.68159	0.72851	0.65739	0.67586	0.59890	0.65517	0.68253	0.65771	0.65040	0.73674	0.75604	0.83217	0.76214
L8	21:50:38	0.71435	0.68166	0.72860	0.65739	0.67589	0.59892	0.65516	0.68254	0.65771	0.65041	0.73676	0.75603	0.83219	0.76216
L9	21:51:59	0.71434	0.68163	0.72856	0.65738	0.67573	0.59884	0.65472	0.68234	0.65761	0.65029	0.73650	0.75558	0.83187	0.76140
L9	21:52:35	0.71436	0.68163	0.72859	0.65740	0.67572	0.59885	0.65472	0.68233	0.65759	0.65028	0.73650	0.75554	0.83193	0.76140
L9	21:53:33	0.71434	0.68154	0.72859	0.65737	0.67576	0.59886	0.65471	0.68233	0.65757	0.65026	0.73649	0.75552	0.83191	0.76139
L9	21:55:34	0.71434	0.68162	0.72855	0.65738	0.67579	0.59887	0.65477	0.68235	0.65758	0.65027	0.73652	0.75554	0.83199	0.76142
L10	21:57:05	0.71435	0.68152	0.72861	0.65738	0.67557	0.59878	0.65441	0.68213	0.65634	0.64952	0.73710	0.75341	0.83375	0.75825
L10	21:57:53	0.71438	0.68061	0.72856	0.65739	0.67543	0.59876	0.65432	0.68196	0.65661	0.64914	0.73705	0.75273	0.83372	0.75716
L10	21:58:36	0.71439	0.68149	0.72859	0.65737	0.67542	0.59878	0.65429	0.68194	0.65662	0.64903	0.73711	0.75265	0.83374	0.75705
L10	22:00:35	0.71438	0.68148	0.72861	0.65739	0.67546	0.59876	0.65430	0.68197	0.65663	0.64900	0.73724	0.75263	0.83370	0.75708
L11	22:01:50	0.71436	0.68065	0.72844	0.65739	0.67530	0.59840	0.65318	0.68040	0.65423	0.64680	0.73242	0.75156	0.82677	0.75640
L11	22:02:23	0.71434	0.68065	0.72851	0.65740	0.67520	0.59828	0.65297	0.68032	0.65399	0.64622	0.73218	0.75102	0.82643	0.75603
L11	22:03:21	0.71440	0.68065	0.72853	0.65741	0.67512	0.59829	0.65268	0.68006	0.65351	0.64592	0.73193	0.75072	0.82624	0.75558
L11	22:05:20	0.71438	0.68067	0.72855	0.65739	0.67501	0.59828	0.65245	0.67987	0.65298	0.64564	0.73177	0.75044	0.82613	0.75521
L11A	22:10:20	0.71438	0.68075	0.72862	0.65741	0.67504	0.59829	0.65225	0.67983	0.65293	0.64547	0.73169	0.74995	0.82614	0.75506
L12	22:12:45	0.71437	0.68070	0.72843	0.65741	0.67491	0.59837	0.65221	0.67958	0.65256	0.64507	0.73101	0.74957	0.82620	0.75440
L12	22:13:28	0.71435	0.68072	0.72862	0.65738	0.67492	0.59838	0.65222	0.67955	0.65255	0.64505	0.73100	0.74956	0.82618	0.75437
L12	22:14:11	0.71438	0.68071	0.72865	0.65742	0.67492	0.59836	0.65221	0.67954	0.65252	0.64502	0.73098	0.74954	0.82618	0.75434
L12	22:16:14	0.71435	0.68071	0.72862	0.65741	0.67496	0.59840	0.65222	0.67953	0.65251	0.64497	0.73099	0.74955	0.82621	0.75438
L13	22:17:34	0.71437	0.68073	0.72865	0.65739	0.67479	0.59834	0.65194	0.67927	0.65188	0.64441	0.73053	0.74897	0.82502	0.75381
L13	22:18:07	0.71434	0.68074	0.72862	0.65739	0.67480	0.59833	0.65190	0.67922	0.65179	0.64440	0.73053	0.74895	0.82500	0.75381
L13	22:19:04	0.71432	0.68072	0.72861	0.65740	0.67479	0.59833	0.65186	0.67918	0.65165	0.64435	0.73052	0.74894	0.82500	0.75376
L13	22:21:05	0.71432	0.68074	0.72863	0.65740	0.67479	0.59831	0.65181	0.67916	0.65149	0.64429	0.73051	0.74889	0.82496	0.75368
L14	22:22:39	0.71430	0.68077	0.72867	0.65740	0.67469	0.59820	0.65153	0.67871	0.65136	0.64381	0.73012	0.74825	0.82444	0.75291
L14	22:23:19	0.71431	0.68076	0.72866	0.65740	0.67467	0.59819	0.65142	0.67868	0.65134	0.64374	0.73008	0.74816	0.82443	0.75279
L14	22:24:12	0.71434	0.68076	0.72867	0.65739	0.67467	0.59815	0.65130	0.67863	0.65120	0.64361	0.73005	0.74801	0.82446	0.75263
L14	22:26:09	0.71436	0.68077	0.72865	0.65740	0.67468	0.59808	0.65097	0.67840	0.65103	0.64320	0.73011	0.74754	0.82456	0.75220
L15	22:28:16	0.71435	0.68079	0.72870	0.65739	0.67474	0.59789	0.65059	0.67801	0.65027	0.64260	0.72989	0.74653	0.82456	0.75114
L15	22:29:00	0.71434	0.68077	0.72871	0.65741	0.67445	0.59776	0.65026	0.67774	0.65007	0.64224	0.72983	0.74622	0.82443	0.75100
L15	22:29:54	0.71434	0.68077	0.72869	0.65741	0.67436	0.59749	0.64963	0.67730	0.65001	0.64184	0.72879	0.74626	0.82289	0.75124
L15A	22:30:44	0.71433	0.68076	0.72864	0.65743	0.67492	0.59743	0.64953	0.67744	0.65009	0.64203	0.72883	0.74688	0.82295	0.75184
L15B	22:31:54	0.71426	0.68078	0.72871	0.65741	0.67474	0.59740	0.64955	0.67751	0.65007	0.64222	0.72900	0.74707	0.82332	0.75239
U1	22:35:59	0.71435	0.68080	0.72879	0.65742	0.67478	0.59754	0.65008	0.67788	0.65028	0.64285	0.72937	0.74771	0.82404	0.75320
U2	22:40:30	0.71433	0.68081	0.72879	0.65742	0.67526	0.59777	0.65067	0.67833	0.65124	0.64365	0.73004	0.74888	0.82502	0.75525
U3	22:44:38	0.71428	0.68083	0.72893	0.65766	0.67593	0.59835	0.65156	0.67916	0.65228	0.64464	0.73071	0.75071	0.82607	0.75799
U4	22:48:42	0.71434	0.68091	0.72906	0.65774	0.67558	0.59834	0.65219	0.67981	0.65306	0.64569	0.73195	0.75185	0.82737	0.75944
U5	22:52:59	0.71430	0.68092	0.72918	0.65772	0.67622	0.59878	0.65292	0.68031	0.65376	0.64656	0.73306	0.75304	0.82896	0.76095
U6	22:57:02	0.71434	0.68092	0.72937	0.65783	0.67688	0.59913	0.65378	0.68145	0.65521	0.64808	0.73515	0.75511	0.83167	0.76323

Table F.24 continued

VIBRATING WIRE INSTRUMENT READINGS - STRAIN

VLW 1 LOAD NUMBER	TIME	VW STRN FREQ^2 KHZ^2 1	VW STRN FREQ^2 KHZ^2 2	VW STRN FREQ^2 KHZ^2 31	VW STRN FREQ^2 KHZ^2 32	VW STRN FREQ^2 KHZ^2 33	VW STRN FREQ^2 KHZ^2 34	VW STRN FREQ^2 KHZ^2 19	VW STRN FREQ^2 KHZ^2 20	VW STRN FREQ^2 KHZ^2 9	VW STRN FREQ KHZ^2 10	VW STRN FREQ KHZ^2 11	VW STRN FREQ KHZ^2 12	VW STRN FREQ KHZ^2 39	VW STRN FREQ KHZ^2 40
U7	23:00:49	0.71434	0.68096	0.72959	0.65795	0.67702	0.59974	0.65533	0.68296	0.65791	0.65052	0.73857	0.75791	0.83567	0.76693
U7A	23:03:52	0.71434	0.68094	0.72957	0.65794	0.67701	0.59976	0.65540	0.68298	0.65794	0.65055	0.73857	0.75793	0.83564	0.76693
U8	23:15:00	0.71441	0.68102	0.72971	0.65798	0.67706	0.59982	0.65558	0.68295	0.65807	0.65068	0.73850	0.75797	0.83567	0.76694
U8	23:30:00	0.71446	0.68113	0.72981	0.65807	0.67718	0.60000	0.65570	0.68298	0.65820	0.65075	0.73845	0.75799	0.83567	0.76694
U8	23:45:00	0.71447	0.68123	0.72976	0.65812	0.67731	0.60023	0.65577	0.68307	0.65828	0.65085	0.73840	0.75801	0.83566	0.76694
U8	00:00:00	0.71450	0.68131	0.72975	0.65815	0.67746	0.60036	0.65585	0.68312	0.65834	0.65097	0.73832	0.75801	0.83564	0.76694
U8	00:15:00	0.71453	0.68152	0.72973	0.65818	0.67758	0.60048	0.65585	0.68315	0.65836	0.65099	0.73828	0.75803	0.83564	0.76694
U8	00:30:00	0.71454	0.68168	0.72974	0.65823	0.67772	0.60054	0.65587	0.68321	0.65842	0.65097	0.73826	0.75802	0.83565	0.76695
U8	00:45:00	0.71458	0.68176	0.72977	0.65827	0.67777	0.60015	0.65593	0.68324	0.65848	0.65097	0.73821	0.75804	0.83565	0.76696
U8	01:00:00	0.71464	0.68177	0.72983	0.65829	0.67779	0.60018	0.65600	0.68325	0.65852	0.65100	0.73818	0.75803	0.83460	0.76694
U8	01:15:00	0.71465	0.68181	0.72988	0.65834	0.67782	0.60023	0.65609	0.68327	0.65854	0.65101	0.73813	0.75804	0.83438	0.76694
U8	01:30:00	0.71469	0.68184	0.72992	0.65836	0.67785	0.60028	0.65653	0.68328	0.65857	0.65104	0.73809	0.75803	0.83431	0.76693
U8	01:45:00	0.71468	0.68189	0.72998	0.65841	0.67787	0.60029	0.65660	0.68330	0.65860	0.65111	0.73805	0.75803	0.83432	0.76692
U8	02:00:00	0.71472	0.68193	0.73004	0.65848	0.67790	0.60030	0.65657	0.68331	0.65864	0.65121	0.73802	0.75803	0.83432	0.76690
U8	02:15:00	0.71476	0.68197	0.73013	0.65852	0.67791	0.60033	0.65658	0.68331	0.65866	0.65132	0.73797	0.75803	0.83433	0.76690
U8	02:30:00	0.71476	0.68202	0.73019	0.65854	0.67794	0.60037	0.65663	0.68333	0.65869	0.65141	0.73794	0.75801	0.83438	0.76690
U8	02:45:00	0.71479	0.68205	0.73026	0.65859	0.67796	0.60042	0.65668	0.68334	0.65870	0.65148	0.73787	0.75802	0.83444	0.76688
U8	03:00:00	0.71480	0.68209	0.73032	0.65861	0.67797	0.60046	0.65674	0.68334	0.65872	0.65151	0.73781	0.75800	0.83476	0.76686
U8	03:15:00	0.71485	0.68214	0.73035	0.65863	0.67798	0.60049	0.65678	0.68334	0.65872	0.65153	0.73774	0.75800	0.83482	0.76685
U8	03:30:00	0.71487	0.68219	0.73038	0.65865	0.67799	0.60055	0.65683	0.68335	0.65874	0.65155	0.73767	0.75799	0.83482	0.76683
U8	03:45:00	0.71490	0.68222	0.73041	0.65866	0.67800	0.60058	0.65686	0.68335	0.65875	0.65156	0.73761	0.75797	0.83478	0.76682
U8	04:00:00	0.71491	0.68227	0.73042	0.65868	0.67803	0.60064	0.65689	0.68335	0.65875	0.65158	0.73758	0.75795	0.83476	0.76680
U8	04:15:00	0.71493	0.68227	0.73043	0.65871	0.67803	0.60068	0.65694	0.68335	0.65875	0.65159	0.73755	0.75794	0.83472	0.76678
U8	04:30:00	0.71497	0.68233	0.73046	0.65871	0.67805	0.60073	0.65697	0.68335	0.65877	0.65159	0.73751	0.75792	0.83466	0.76677
U8	04:45:00	0.71497	0.68235	0.73047	0.65872	0.67805	0.60076	0.65700	0.68336	0.65876	0.65162	0.73753	0.75788	0.83463	0.76673
U8	05:00:00	0.71499	0.68238	0.73051	0.65872	0.67807	0.60083	0.65703	0.68336	0.65878	0.65162	0.73749	0.75786	0.83459	0.76673
U8	05:15:00	0.71500	0.68241	0.73053	0.65875	0.67807	0.60088	0.65707	0.68336	0.65879	0.65163	0.73749	0.75783	0.83455	0.76670
U8	05:30:00	0.71502	0.68242	0.73055	0.65877	0.67808	0.60091	0.65713	0.68337	0.65880	0.65164	0.73748	0.75782	0.83451	0.76668
U8	05:45:00	0.71507	0.68243	0.73060	0.65884	0.67810	0.60100	0.65717	0.68338	0.65881	0.65167	0.73747	0.75779	0.83450	0.76665
U8	06:00:00	0.71507	0.68248	0.73062	0.65887	0.67812	0.60100	0.65725	0.68338	0.65882	0.65168	0.73747	0.75776	0.83446	0.76663
U8	06:15:00	0.71512	0.68249	0.73066	0.65892	0.67812	0.60100	0.65732	0.68338	0.65883	0.65169	0.73744	0.75775	0.83443	0.76662
U8	06:30:00	0.71511	0.68253	0.73070	0.65899	0.67815	0.60097	0.65742	0.68339	0.65883	0.65171	0.73743	0.75774	0.83441	0.76660
U8	06:45:00	0.71514	0.68254	0.73073	0.65908	0.67817	0.60094	0.65750	0.68341	0.65882	0.65173	0.73744	0.75771	0.83440	0.76657
U8	07:00:00	0.71516	0.68256	0.73079	0.65914	0.67819	0.60093	0.65758	0.68343	0.65884	0.65175	0.73742	0.75771	0.83437	0.76658
U8	07:15:00	0.71519	0.68258	0.73084	0.65918	0.67820	0.60091	0.65764	0.68345	0.65885	0.65178	0.73740	0.75770	0.83436	0.76655
U8	07:30:00	0.71521	0.68261	0.73090	0.65922	0.67823	0.60095	0.65765	0.68346	0.65887	0.65180	0.73739	0.75768	0.83434	0.76656
U8	07:45:00	0.71523	0.68261	0.73094	0.65924	0.67824	0.60096	0.65741	0.68348	0.65888	0.65181	0.73740	0.75767	0.83432	0.76653
U8	08:00:00	0.71525	0.68262	0.73101	0.65929	0.67828	0.60101	0.65725	0.68351	0.65890	0.65185	0.73739	0.75766	0.83432	0.76653
U8	08:15:00	0.71526	0.68266	0.73107	0.65932	0.67832	0.60106	0.65721	0.68353	0.65891	0.65188	0.73738	0.75766	0.83429	0.76651
U8	08:30:00	0.71530	0.68266	0.73111	0.65939	0.67835	0.60114	0.65722	0.68357	0.65895	0.65190	0.73736	0.75765	0.83430	0.76651
U8	08:45:00	0.71534	0.68267	0.73115	0.65942	0.67840	0.60123	0.65725	0.68361	0.65898	0.65193	0.73736	0.75764	0.83430	0.76651
U8	09:00:00	0.71535	0.68268	0.73116	0.65947	0.67842	0.60131	0.65727	0.68364	0.65899	0.65193	0.73736	0.75763	0.83427	0.76650
U8	10:00:00	0.71548	0.68270	0.73115	0.65969	0.67861	0.60167	0.65776	0.68396	0.65924	0.65209	0.73744	0.75769	0.83450	0.76651

Table F.24 continued

VIBRATING WIRE INSTRUMENT READINGS - TEMPERATURE

VLW 1 LOAD NUMBER	TIME	VW STRN TEMP DEG C 1	VW STRN TEMP DEG C 2	VW STRN TEMP DEG C 31	VW STRN TEMP DEG C 32	VW STRN TEMP DEG C 33	VW STRN TEMP DEG C 34	VW STRN TEMP DEG C 19	VW STRN TEMP DEG C 20	VW STRN TEMP DEG C 9	VW STRN TEMP DEG C 10	VW STRN TEMP DEG C 11	VW STRN TEMP DEG C 12	VW STRN TEMP DEG C 39	VW STRN TEMP DEG C 40
L0	17:00:00	27.784	27.994	28.204	28.770	25.740	26.479	26.344	26.075	26.446	25.807	25.941	25.176	25.640	26.108
L0	17:15:00	27.761	27.900	28.181	28.746	25.651	26.389	26.254	25.951	26.355	25.717	25.885	25.087	25.551	26.018
L0	17:30:00	27.765	27.869	28.150	28.608	25.554	26.291	26.190	25.855	26.291	25.621	25.821	24.992	25.455	25.921
L0	17:45:00	27.731	27.836	28.080	28.539	25.489	26.191	26.124	25.789	26.225	25.522	25.755	24.894	25.356	25.789
L0	18:00:00	27.729	27.799	28.043	28.466	25.421	26.156	26.089	25.687	26.156	25.487	25.720	24.827	25.288	25.685
L0	18:15:00	27.695	27.730	27.974	28.396	25.322	26.023	25.989	25.588	26.090	25.356	25.655	24.762	25.190	25.588
L0	18:30:00	27.662	27.697	27.941	28.291	25.257	25.923	25.923	25.522	25.990	25.290	25.589	24.665	25.125	25.522
L0	18:45:00	27.627	27.662	27.871	28.222	25.158	25.856	25.856	25.456	25.957	25.191	25.523	24.665	25.059	25.423
L0	19:00:00	27.628	27.628	27.836	28.151	25.125	25.756	25.789	25.357	25.856	25.158	25.489	24.666	24.994	25.324
L0	19:15:00	27.593	27.593	27.767	28.081	25.027	25.689	25.723	25.291	25.823	25.059	25.456	24.470	24.928	25.258
L0	19:30:00	27.558	27.558	27.697	28.011	24.961	25.623	25.689	25.225	25.756	24.994	25.390	24.404	24.862	25.191
L0	19:45:00	27.524	27.489	27.662	27.941	24.895	25.556	25.623	25.158	25.689	24.928	25.324	24.339	24.797	25.125
L0	20:00:00	27.489	27.454	27.593	27.871	24.829	25.490	25.556	25.092	25.656	24.862	25.291	24.274	24.764	25.059
L0	20:15:00	27.454	27.454	27.558	27.802	24.764	25.423	25.490	25.027	25.623	24.797	25.225	24.244	24.701	24.996
L0	20:30:00	27.455	27.389	27.492	27.770	24.701	25.360	25.493	24.964	25.559	24.734	25.194	24.180	24.669	24.931
L0	20:45:46	27.422	27.353	27.422	27.664	24.667	25.293	25.425	24.897	25.491	24.667	25.160	24.114	24.602	24.897
L0	20:46:46	27.422	27.353	27.422	27.664	24.667	25.293	25.425	24.897	25.491	24.667	25.160	24.114	24.667	24.864
L0	20:53:05	27.426	27.357	27.460	27.668	24.671	25.263	25.429	24.900	25.495	24.671	25.131	24.085	24.672	24.869
L0	20:58:48	27.393	27.359	27.393	27.671	24.673	25.265	25.365	24.870	25.464	24.673	25.166	24.087	24.673	24.837
L1	21:11:22	27.396	27.327	27.362	27.569	24.676	25.235	25.334	24.839	25.434	24.676	25.103	24.057	24.512	24.807
L1	21:11:58	27.396	27.362	27.362	27.569	24.676	25.202	25.334	24.839	25.434	24.610	25.136	24.025	24.512	24.807
L1	21:12:53	27.396	27.327	27.362	27.569	24.708	25.202	25.334	24.839	25.434	24.676	25.103	24.057	24.512	24.807
L1	21:14:51	27.397	27.328	27.328	27.570	24.545	25.202	25.367	24.840	25.434	24.610	25.103	24.025	24.512	24.807
L2	21:17:13	27.397	27.328	27.328	27.570	24.676	25.169	25.335	24.840	25.401	24.676	25.070	24.025	24.513	24.774
L2	21:18:38	27.397	27.328	27.328	27.535	24.676	25.169	25.301	24.807	25.401	24.676	25.103	24.025	24.513	24.774
L2	21:20:38	27.395	27.325	27.325	27.533	24.674	25.167	25.299	24.805	25.399	24.576	25.068	24.024	24.478	24.772
L3	21:22:07	27.395	27.325	27.325	27.533	24.543	25.167	25.299	24.805	25.432	24.576	25.068	24.024	24.478	24.772
L3	21:22:54	27.395	27.326	27.326	27.534	24.577	25.168	25.300	24.806	25.399	24.675	25.069	24.056	24.479	24.773
L3	21:23:46	27.395	27.326	27.326	27.534	24.544	25.168	25.300	24.806	25.399	24.675	25.069	24.024	24.479	24.773
L3	21:25:36	27.395	27.326	27.326	27.499	24.512	25.168	25.300	24.806	25.400	24.577	25.069	24.025	24.479	24.773
L4	21:27:01	27.361	27.327	27.327	27.534	24.544	25.168	25.300	24.773	25.433	24.544	25.069	23.992	24.479	24.773
L4	21:27:32	27.361	27.327	27.361	27.499	24.544	25.168	25.333	24.773	25.400	24.675	25.069	23.992	24.479	24.740
L4	21:28:31	27.361	27.327	27.327	27.499	24.512	25.168	25.301	24.774	25.400	24.675	25.070	23.992	24.479	24.741
L4	21:30:32	27.361	27.327	27.293	27.500	24.512	25.168	25.301	24.774	25.400	24.545	25.070	23.992	24.447	24.741
L5	21:32:01	27.359	27.325	27.291	27.498	24.510	25.167	25.299	24.772	25.365	24.543	25.068	23.990	24.445	24.739
L5	21:32:38	27.359	27.291	27.291	27.498	24.510	25.133	25.299	24.772	25.365	24.543	25.068	23.990	24.445	24.739
L5	21:33:35	27.359	27.325	27.291	27.463	24.510	25.133	25.299	24.772	25.398	24.543	25.068	23.990	24.445	24.739
L5	21:35:25	27.358	27.323	27.289	27.461	24.476	25.132	25.297	24.770	25.363	24.672	25.066	23.989	24.443	24.737
L6	21:37:04	27.358	27.289	27.289	27.461	24.476	25.132	25.264	24.770	25.363	24.541	25.066	23.989	24.443	24.738
L6	21:37:36	27.359	27.290	27.290	27.462	24.477	25.133	25.265	24.771	25.364	24.542	25.067	24.022	24.444	24.706
L6	21:38:32	27.359	27.290	27.290	27.462	24.477	25.133	25.265	24.771	25.364	24.542	25.034	23.958	24.444	24.706
L6	21:40:33	27.357	27.288	27.254	27.461	24.475	25.131	25.297	24.737	25.363	24.508	25.032	23.956	24.443	24.704
L7	21:42:14	27.357	27.288	27.254	27.495	24.443	25.098	25.264	24.737	25.330	24.508	25.032	23.956	24.410	24.704

Table F.24 continued

VIBRATING WIRE INSTRUMENT READINGS - TEMPERATURE

VLW 1 LOAD NUMBER	TIME	VW STRN TEMP DEG C 1	VW STRN TEMP DEG C 2	VW STRN TEMP DEG C 31	VW STRN TEMP DEG C 32	VW STRN TEMP DEG C 33	VW STRN TEMP DEG C 34	VW STRN TEMP DEG C 19	VW STRN TEMP DEG C 20	VW STRN TEMP DEG C 9	VW STRN TEMP DEG C 10	VW STRN TEMP DEG C 11	VW STRN TEMP DEG C 12	VW STRN TEMP DEG C 39	VW STRN TEMP DEG C 40
L7	21:42:47	27.357	27.288	27.254	27.461	24.443	25.098	25.264	24.737	25.330	24.508	25.032	23.956	24.410	24.704
L7	21:43:44	27.356	27.287	27.253	27.494	24.442	25.097	25.262	24.736	25.329	24.540	25.031	23.955	24.409	24.736
L7	21:45:43	27.356	27.287	27.253	27.425	24.442	25.097	25.229	24.736	25.329	24.507	25.031	23.987	24.409	24.703
L8	21:47:12	27.355	27.286	27.251	27.424	24.441	25.096	25.228	24.735	25.328	24.506	25.030	23.922	24.408	24.735
L8	21:47:43	27.390	27.286	27.251	27.424	24.441	25.096	25.228	24.735	25.328	24.506	25.030	23.954	24.408	24.702
L8	21:48:46	27.355	27.286	27.251	27.424	24.441	25.129	25.261	24.735	25.328	24.506	25.030	23.922	24.408	24.702
L8	21:50:38	27.357	27.288	27.219	27.426	24.475	25.065	25.230	24.703	25.329	24.475	25.032	23.923	24.410	24.671
L9	21:51:59	27.357	27.288	27.219	27.426	24.442	25.066	25.231	24.705	25.330	24.476	25.033	23.925	24.411	24.672
L9	21:52:35	27.323	27.289	27.220	27.427	24.411	25.099	25.231	24.705	25.330	24.476	25.000	23.925	24.411	24.672
L9	21:53:33	27.323	27.289	27.220	27.392	24.411	25.066	25.231	24.705	25.297	24.476	25.000	23.925	24.411	24.672
L9	21:55:34	27.324	27.290	27.221	27.393	24.444	25.067	25.232	24.706	25.331	24.477	25.034	23.925	24.412	24.673
L10	21:57:05	27.324	27.290	27.221	27.393	24.412	25.067	25.232	24.706	25.298	24.477	25.001	23.925	24.412	24.673
L10	21:57:53	27.324	27.290	27.221	27.393	24.413	25.101	25.233	24.706	25.299	24.510	25.002	23.926	24.413	24.706
L10	21:58:36	27.325	27.256	27.222	27.394	24.413	25.068	25.233	24.706	25.299	24.478	25.002	23.926	24.413	24.674
L10	22:00:35	27.325	27.291	27.222	27.394	24.413	25.068	25.233	24.706	25.299	24.445	25.002	23.895	24.381	24.674
L11	22:01:50	27.326	27.292	27.223	27.395	24.413	25.101	25.200	24.674	25.299	24.446	25.003	23.895	24.381	24.674
L11	22:02:23	27.326	27.257	27.223	27.395	24.413	25.069	25.200	24.674	25.333	24.446	25.003	23.895	24.381	24.674
L11	22:03:21	27.326	27.292	27.188	27.360	24.413	25.069	25.200	24.674	25.299	24.446	25.003	23.895	24.381	24.674
L11	22:05:20	27.324	27.255	27.186	27.358	24.412	25.034	25.232	24.673	25.298	24.444	24.968	23.893	24.412	24.673
L11A	22:10:20	27.356	27.218	27.183	27.356	24.377	25.031	25.196	24.670	25.295	24.441	24.965	23.890	24.344	24.670
L12	22:12:45	27.320	27.251	27.183	27.320	24.376	25.030	25.162	24.669	25.261	24.408	24.964	23.889	24.376	24.636
L12	22:13:28	27.355	27.286	27.183	27.355	24.376	24.997	25.162	24.669	25.261	24.408	24.964	23.857	24.343	24.669
L12	22:14:11	27.320	27.251	27.183	27.320	24.376	24.997	25.162	24.669	25.261	24.408	24.964	23.857	24.376	24.636
L12	22:16:14	27.320	27.216	27.147	27.320	24.407	24.996	25.161	24.701	25.260	24.407	24.964	23.857	24.342	24.668
L13	22:17:34	27.320	27.216	27.147	27.320	24.342	24.996	25.161	24.668	25.260	24.407	24.964	23.857	24.342	24.668
L13	22:18:07	27.320	27.216	27.147	27.320	24.342	24.996	25.161	24.668	25.260	24.407	24.964	23.889	24.342	24.605
L13	22:19:04	27.321	27.218	27.149	27.321	24.344	25.031	25.163	24.670	25.262	24.409	24.965	23.858	24.344	24.670
L13	22:21:05	27.321	27.252	27.149	27.321	24.344	25.031	25.163	24.637	25.262	24.409	24.933	23.858	24.345	24.671
L14	22:22:39	27.323	27.219	27.151	27.357	24.345	25.000	25.164	24.639	25.231	24.410	24.934	23.860	24.378	24.606
L14	22:23:19	27.323	27.219	27.116	27.323	24.345	25.000	25.164	24.704	25.231	24.410	24.934	23.860	24.378	24.671
L14	22:24:12	27.323	27.219	27.116	27.288	24.345	24.967	25.164	24.673	25.232	24.411	24.935	23.861	24.346	24.673
L14	22:26:09	27.324	27.221	27.118	27.290	24.346	24.968	25.165	24.705	25.232	24.411	24.935	23.861	24.314	24.607
L15	22:28:16	27.323	27.219	27.116	27.288	24.313	24.966	25.164	24.704	25.230	24.377	24.934	23.859	24.313	24.671
L15	22:29:00	27.323	27.219	27.116	27.323	24.313	24.966	25.164	24.638	25.230	24.377	24.934	23.891	24.313	24.671
L15	22:29:54	27.323	27.219	27.116	27.288	24.313	24.966	25.131	24.704	25.230	24.377	24.934	23.827	24.314	24.672
L15A	22:30:44	27.324	27.220	27.117	27.324	24.314	24.968	25.132	24.672	25.231	24.379	24.935	23.860	24.314	24.672
L15B	22:31:54	27.289	27.220	27.117	27.289	24.314	25.000	25.132	24.672	25.231	24.411	24.935	23.860	24.314	24.672
U1	22:35:59	27.288	27.219	27.081	27.253	24.312	24.935	25.132	24.672	25.231	24.378	24.935	23.828	24.281	24.672
U2	22:40:30	27.288	27.219	27.081	27.253	24.280	24.933	25.131	24.671	25.197	24.345	24.900	23.827	24.280	24.671
U3	22:44:38	27.286	27.218	27.080	27.218	24.279	24.932	25.097	24.703	25.196	24.344	24.901	23.795	24.312	24.540
U4	22:48:42	27.287	27.184	27.046	27.218	24.279	24.932	25.097	24.703	25.196	24.344	24.900	23.794	24.279	24.670
U5	22:52:59	27.288	27.185	27.082	27.219	24.248	24.901	25.098	24.671	25.164	24.313	24.901	23.763	24.248	24.541
U6	22:57:02	27.251	27.183	27.045	27.183	24.278	24.899	25.063	24.539	25.162	24.311	24.866	23.761	24.278	24.539

Table F.24 continued

VIBRATING WIRE INSTRUMENT READINGS - TEMPERATURE

VLW 1 LOAD NUMBER	TIME	VW STRN TEMP DEG C 1	VW STRN TEMP DEG C 2	VW STRN TEMP DEG C 31	VW STRN TEMP DEG C 32	VW STRN TEMP DEG C 33	VW STRN TEMP DEG C 34	VW STRN TEMP DEG C 19	VW STRN TEMP DEG C 20	VW STRN TEMP DEG C 9	VW STRN TEMP DEG C 10	VW STRN TEMP DEG C 11	VW STRN TEMP DEG C 12	VW STRN TEMP DEG C 39	VW STRN TEMP DEG C 40
U7	23:00:49	27.253	27.184	27.013	27.219	24.247	24.933	25.065	24.671	25.164	24.345	24.868	23.762	24.247	24.507
U7A	23:03:52	27.286	27.183	27.012	27.149	24.246	24.866	25.064	24.539	25.163	24.279	24.899	23.761	24.246	24.506
U8	23:15:00	27.254	27.150	26.979	27.150	24.183	24.868	25.032	24.508	25.131	24.280	24.835	23.731	24.215	24.508
U8	23:30:00	27.222	27.153	26.947	27.084	24.153	24.805	25.002	24.445	25.101	24.217	24.805	23.701	24.185	24.445
U8	23:45:00	27.224	27.121	26.915	27.018	24.155	24.774	24.971	24.415	25.070	24.187	24.774	23.671	24.155	24.415
U8	00:00:00	27.194	27.091	26.851	26.988	24.094	24.745	24.942	24.386	25.041	24.159	24.778	23.642	24.126	24.386
U8	00:15:00	27.199	27.096	26.788	26.925	24.066	24.717	24.914	24.358	25.013	24.131	24.750	23.615	24.098	24.358
U8	00:30:00	27.168	27.065	26.791	26.893	24.036	24.687	24.884	24.328	24.982	24.101	24.720	23.585	24.068	24.328
U8	00:45:00	27.168	27.065	26.758	26.860	24.005	24.688	24.852	24.296	24.950	24.069	24.688	23.554	24.037	24.296
U8	01:00:00	27.134	27.066	26.690	26.792	23.973	24.688	24.819	24.264	24.918	24.037	24.688	23.522	24.037	24.264
U8	01:15:00	27.137	27.034	26.658	26.795	23.943	24.690	24.789	24.234	24.887	24.007	24.690	23.524	24.007	24.266
U8	01:30:00	27.108	27.039	26.629	26.732	23.915	24.695	24.794	24.239	24.892	23.980	24.695	23.497	23.980	24.206
U8	01:45:00	27.109	27.006	26.597	26.699	23.884	24.533	24.762	24.175	24.861	23.949	24.697	23.466	23.949	24.175
U8	02:00:00	27.111	27.009	26.565	26.667	23.854	24.502	24.731	24.177	24.830	23.918	24.699	23.436	23.918	24.177
U8	02:15:00	27.078	26.975	26.532	26.600	23.822	24.470	24.699	24.145	24.797	23.919	24.699	23.404	23.919	24.145
U8	02:30:00	27.078	26.975	26.498	26.566	23.790	24.438	24.699	24.113	24.798	23.887	24.536	23.405	23.887	24.113
U8	02:45:00	27.078	26.941	26.430	26.532	23.758	24.438	24.699	24.081	24.765	23.855	24.536	23.373	23.855	24.113
U8	03:00:00	27.044	26.941	26.397	26.498	23.758	24.405	24.699	24.048	24.732	23.855	24.503	23.341	23.855	24.081
U8	03:15:00	27.044	26.941	26.397	26.464	23.726	24.373	24.699	24.048	24.732	23.822	24.471	23.309	23.822	24.048
U8	03:30:00	27.010	26.941	26.329	26.430	23.693	24.340	24.699	24.016	24.699	23.790	24.471	23.309	23.790	24.048
U8	03:45:00	27.010	26.907	26.329	26.397	23.661	24.308	24.699	23.984	24.699	23.758	24.438	23.277	23.790	24.016
U8	04:00:00	27.010	26.907	26.295	26.363	23.661	24.275	24.699	23.951	24.699	23.758	24.438	23.245	23.758	23.984
U8	04:15:00	26.975	26.873	26.261	26.329	23.629	24.275	24.536	23.951	24.699	23.726	24.405	23.245	23.758	23.984
U8	04:30:00	26.975	26.873	26.228	26.295	23.597	24.243	24.536	23.919	24.699	23.693	24.405	23.213	23.726	23.951
U8	04:45:00	26.975	26.873	26.194	26.261	23.597	24.210	24.503	23.887	24.699	23.693	24.373	23.213	23.726	23.951
U8	05:00:00	26.941	26.838	26.160	26.228	23.565	24.210	24.471	23.887	24.699	23.661	24.373	23.181	23.693	23.919
U8	05:15:00	26.941	26.838	26.127	26.194	23.533	24.178	24.471	23.855	24.699	23.661	24.340	23.181	23.693	23.887
U8	05:30:00	26.941	26.838	26.093	26.160	23.533	24.178	24.438	23.855	24.536	23.629	24.308	23.149	23.661	23.887
U8	05:45:00	26.941	26.804	26.059	26.127	23.501	24.146	24.438	23.822	24.536	23.629	24.308	23.117	23.661	23.887
U8	06:00:00	26.907	26.804	26.059	26.093	23.501	24.146	24.405	23.790	24.503	23.597	24.275	23.117	23.661	23.855
U8	06:15:00	26.907	26.804	26.026	26.059	23.469	24.113	24.405	23.790	24.503	23.597	24.275	23.117	23.629	23.855
U8	06:30:00	26.907	26.804	25.992	26.026	23.469	24.113	24.373	23.758	24.471	23.565	24.275	23.085	23.629	23.822
U8	06:45:00	26.873	26.804	25.959	25.992	23.437	24.081	24.373	23.758	24.471	23.533	24.275	23.085	23.597	23.822
U8	07:00:00	26.873	26.770	25.959	25.992	23.405	24.081	24.340	23.758	24.438	23.533	24.243	23.053	23.597	23.790
U8	07:15:00	26.873	26.770	25.925	25.959	23.405	24.048	24.340	23.726	24.438	23.501	24.210	23.053	23.565	23.790
U8	07:30:00	26.873	26.770	25.891	25.925	23.405	24.016	24.308	23.693	24.438	23.501	24.210	23.022	23.565	23.758
U8	07:45:00	26.838	26.770	25.858	25.891	23.373	24.016	24.308	23.693	24.405	23.501	24.210	23.022	23.533	23.758
U8	08:00:00	26.838	26.736	25.858	25.858	23.373	24.016	24.275	23.661	24.405	23.469	24.178	22.990	23.533	23.758
U8	08:15:00	26.838	26.736	25.825	25.858	23.341	23.984	24.275	23.661	24.373	23.437	24.178	22.990	23.533	23.726
U8	08:30:00	26.804	26.736	25.791	25.825	23.341	23.951	24.275	23.661	24.373	23.437	24.178	22.990	23.533	23.726
U8	08:45:00	26.804	26.736	25.791	25.791	23.341	23.951	24.243	23.661	24.340	23.437	24.178	22.958	23.501	23.726
U8	09:00:00	26.804	26.736	25.758	25.791	23.309	23.951	24.243	23.661	24.340	23.405	24.178	22.958	23.501	23.726
U8	10:00:00	26.772	26.669	25.660	25.693	23.248	23.889	24.180	23.568	24.278	23.375	24.116	22.898	23.472	23.664

Table F.24 continued

VIBRATING WIRE CALCULATED STRAIN INCREMENTS

VLW 1 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 1	VW STRN MICRO STRAIN 2	VW STRN MICRO STRAIN 31	VW STRN MICRO STRAIN 32	VW STRN MICRO STRAIN 33	VW STRN MICRO STRAIN 34	VW STRN MICRO STRAIN 19	VW STRN MICRO STRAIN 20	VW STRN MICRO STRAIN 9	VW STRN MICRO STRAIN 10	VW STRN MICRO STRAIN 11	VW STRN MICRO STRAIN 12	VW STRN MICRO STRAIN 39	VW STRN MICRO STRAIN 40
L0	17:00:00	0.9	1.3	4.5	3.8	5.8	6.1	2.6	2.9	0.4	1.9	2.2	3.8	8.5	8.3
L0	17:15:00	0.8	0.4	4.6	3.9	5.7	5.6	2.2	2.5	-0.7	1.6	2.4	3.3	8.5	7.9
L0	17:30:00	0.5	-0.3	4.7	3.7	5.1	5.3	2.0	2.0	-1.1	1.5	2.5	3.1	8.6	7.7
L0	17:45:00	0.5	-0.2	4.6	3.6	5.0	5.1	2.1	1.7	-1.3	1.3	2.6	2.6	8.6	7.5
L0	18:00:00	0.4	-0.2	4.4	3.5	4.9	4.7	2.0	1.6	-1.5	0.8	2.7	2.1	8.6	7.3
L0	18:15:00	0.6	-0.4	4.4	3.1	4.6	4.2	2.0	1.4	-1.6	-0.2	2.8	1.6	8.4	7.2
L0	18:30:00	0.2	-0.4	4.2	2.9	4.5	3.5	1.8	1.3	-1.8	-0.5	2.8	1.4	5.2	7.0
L0	18:45:00	0.5	-1.0	4.0	2.4	4.4	3.2	1.5	1.1	-2.0	-0.4	2.9	1.3	5.3	6.9
L0	19:00:00	0.3	-1.2	4.1	2.2	4.3	3.4	1.5	1.1	-2.0	-0.5	3.0	1.3	5.4	6.9
L0	19:15:00	0.2	-1.4	4.1	2.0	4.3	4.0	1.3	1.0	-2.0	-0.7	3.1	1.6	5.5	6.7
L0	19:30:00	0.4	-1.6	4.2	1.9	4.3	3.9	0.7	0.8	-2.0	-1.0	3.2	1.6	5.6	6.5
L0	19:45:00	0.2	-1.8	4.1	1.7	4.1	3.6	0.1	0.6	-2.0	-1.2	3.3	1.7	5.8	6.4
L0	20:00:00	0.3	-1.9	4.2	1.7	3.8	3.0	0.2	0.4	-2.1	-1.4	3.3	1.7	5.7	6.4
L0	20:15:00	0.0	-2.0	4.2	1.7	3.5	1.6	0.4	0.4	-2.1	-1.4	3.4	1.7	5.9	6.3
L0	20:30:00	0.0	-2.1	3.0	1.4	3.3	2.5	0.3	0.3	-2.0	-1.7	3.4	1.7	5.9	6.3
L0	20:45:46	0.1	-2.3	3.0	1.3	3.0	2.7	0.1	0.0	-2.1	-1.9	3.5	1.6	5.9	6.2
L0	20:46:46	0.1	-2.4	3.0	1.3	3.0	2.7	0.0	0.1	-2.0	-1.9	3.5	1.6	6.0	6.2
L0	20:53:05	0.2	-2.4	3.0	1.1	2.9	2.6	-0.1	-0.1	-2.2	-1.9	3.5	1.7	6.1	6.2
L0	20:58:48	-0.1	-2.3	3.3	1.1	2.8	2.6	-0.2	-0.2	-2.1	-2.0	3.5	1.6	6.0	6.2
L1	21:11:22	-0.0	-2.7	3.5	1.1	2.9	2.3	-0.5	-0.3	-2.3	-1.9	3.5	1.6	6.2	6.5
L1	21:11:58	0.1	-2.7	3.6	1.2	2.6	2.3	-0.5	-0.3	-2.3	-1.8	3.4	1.6	6.1	6.4
L1	21:12:53	0.1	-2.7	3.5	1.2	2.6	2.2	-0.5	-0.3	-2.3	-1.8	3.5	1.6	6.2	6.5
L1	21:14:51	0.1	-2.6	3.4	1.2	2.8	2.2	-0.6	-0.3	-2.3	-1.7	3.5	1.6	6.3	6.5
L2	21:17:13	-0.3	-2.4	3.4	1.2	2.6	2.2	-0.7	-0.3	-2.3	-1.8	3.5	1.6	6.2	6.9
L2	21:18:38	-0.1	-2.5	3.4	1.3	2.7	2.2	-0.6	-0.2	-2.2	-1.8	3.4	1.6	6.2	6.9
L2	21:20:38	0.1	-2.6	3.1	1.3	3.1	2.1	-0.7	-0.2	-2.4	-1.7	3.4	1.6	6.1	6.9
L3	21:22:07	-0.0	-2.5	3.4	1.3	2.8	2.1	-0.7	-0.2	-2.3	-1.8	3.5	1.7	6.1	7.6
L3	21:22:54	-0.2	-2.6	3.1	1.3	2.8	2.1	-0.7	-0.4	-2.3	-1.9	3.5	1.6	6.1	7.5
L3	21:23:46	0.1	-2.5	3.2	1.3	3.4	2.0	-0.7	-0.4	-2.3	-1.9	3.5	1.6	6.0	7.6
L3	21:25:36	0.1	-2.6	3.1	1.4	2.9	2.0	-0.8	-0.3	-2.3	-1.7	3.4	1.6	6.0	7.6
L4	21:27:01	0.1	-2.7	3.3	1.3	2.8	2.0	-0.7	-0.2	-2.3	-1.7	3.4	1.8	6.0	8.2
L4	21:27:32	0.0	-2.6	3.0	1.3	2.9	2.0	-0.7	-0.3	-2.3	-1.9	3.5	1.8	6.1	8.3
L4	21:28:31	0.0	-2.7	3.1	1.4	3.0	2.0	-0.7	-0.2	-2.2	-1.8	3.5	1.8	6.0	8.3
L4	21:30:32	-0.1	-2.8	3.2	1.4	3.0	1.8	-0.8	-0.3	-2.3	-1.7	3.4	1.8	6.1	8.3
L5	21:32:01	-0.1	-2.6	3.1	1.4	2.9	1.9	-0.6	-0.2	-2.0	-1.7	3.5	2.1	6.1	9.5
L5	21:32:38	-0.1	-2.5	3.1	1.4	2.9	1.9	-0.6	-0.2	-2.0	-1.7	3.5	2.1	6.1	9.5
L5	21:33:35	-0.1	-2.7	3.0	1.4	2.9	1.9	-0.6	-0.2	-2.1	-1.7	3.5	2.1	6.1	9.5
L5	21:35:25	-0.1	-2.5	3.0	1.4	3.0	1.9	-0.7	-0.4	-2.0	-1.9	3.5	2.1	6.1	9.5
L6	21:37:04	-0.1	-2.6	2.9	1.4	3.1	2.0	-0.2	-0.2	-1.7	-1.8	3.6	2.2	10.0	11.1
L6	21:37:36	-0.1	-2.5	3.1	1.4	2.9	2.0	-0.2	-0.1	-1.7	-1.8	3.6	2.2	10.0	11.1
L6	21:38:32	-0.2	-2.7	3.2	1.4	2.9	2.0	-0.3	-0.1	-1.7	-1.8	3.7	2.2	10.0	11.1
L6	21:40:33	-0.1	-2.6	2.9	1.4	2.9	1.9	-0.4	-0.3	-1.7	-1.8	3.6	2.2	10.0	11.1
L7	21:42:14	-0.1	-2.4	3.0	1.5	3.1	2.2	0.5	0.6	-1.0	-1.1	4.4	4.0	10.3	13.2

Table F.24 continued

VIBRATING WIRE CALCULATED STRAIN INCREMENTS

VLW 1 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 1	VW STRN MICRO STRAIN 2	VW STRN MICRO STRAIN 31	VW STRN MICRO STRAIN 32	VW STRN MICRO STRAIN 33	VW STRN MICRO STRAIN 34	VW STRN MICRO STRAIN 19	VW STRN MICRO STRAIN 20	VW STRN MICRO STRAIN 9	VW STRN MICRO STRAIN 10	VW STRN MICRO STRAIN 11	VW STRN MICRO STRAIN 12	VW STRN MICRO STRAIN 39	VW STRN MICRO STRAIN 40
L7	21:42:47	-0.0	-2.4	3.0	1.3	3.1	2.2	0.5	0.6	-0.8	-1.0	4.4	4.0	10.3	13.2
L7	21:43:44	-0.2	-2.7	3.0	1.3	3.1	2.2	0.6	0.6	-0.9	-1.1	4.5	4.1	10.2	13.2
L7	21:45:43	-0.2	-2.3	2.9	1.4	3.1	2.2	0.6	0.6	-0.8	-1.0	4.4	4.1	10.4	13.4
L8	21:47:12	0.0	-2.4	3.1	1.4	3.9	2.5	0.5	1.3	2.3	0.1	5.9	6.0	11.4	15.5
L8	21:47:43	-0.2	-2.2	3.2	1.5	3.5	2.5	0.5	1.2	0.6	0.1	5.9	6.0	11.3	15.6
L8	21:48:46	-0.1	-2.3	3.2	1.5	3.5	2.5	0.5	1.2	0.5	0.2	5.9	6.0	11.3	15.6
L8	21:50:38	-0.1	-2.5	2.9	1.5	3.4	2.5	0.6	1.2	0.5	0.2	5.8	6.1	11.2	15.5
L9	21:51:59	-0.1	-2.4	3.1	1.5	4.0	2.8	2.0	1.9	0.9	0.6	6.7	7.6	12.2	18.1
L9	21:52:35	-0.1	-2.4	3.0	1.4	4.0	2.7	2.0	1.9	0.9	0.6	6.7	7.7	12.0	18.1
L9	21:53:33	-0.0	-2.1	3.0	1.6	3.9	2.7	2.1	1.9	1.0	0.7	6.7	7.7	12.1	18.1
L9	21:55:34	-0.0	-2.4	3.1	1.5	3.8	2.7	1.9	1.9	1.0	0.7	6.6	7.7	11.8	18.0
L10	21:57:05	-0.1	-2.1	2.9	1.5	4.5	3.0	3.1	2.6	5.1	3.1	4.7	14.7	6.0	28.5
L10	21:57:53	-0.2	1.0	3.1	1.5	5.0	3.0	3.3	3.2	4.2	4.4	4.9	17.0	6.1	32.0
L10	21:58:36	-0.2	-1.9	3.0	1.6	5.0	3.0	3.4	3.2	4.2	4.8	4.7	17.2	6.1	32.4
L10	22:00:35	-0.2	-1.9	2.9	1.5	4.9	3.0	3.4	3.1	4.2	4.9	4.3	17.3	6.2	32.3
L11	22:01:50	-0.1	0.8	3.5	1.5	5.4	4.2	7.2	8.3	12.1	12.2	20.2	20.9	29.1	34.6
L11	22:02:23	-0.1	0.9	3.2	1.5	5.8	4.6	7.9	8.6	12.8	14.1	21.0	22.7	30.3	35.8
L11	22:03:21	-0.3	0.8	3.2	1.5	6.0	4.6	8.8	9.5	14.5	15.1	21.8	23.6	30.9	37.3
L11	22:05:20	-0.2	0.8	3.1	1.5	6.4	4.7	9.5	10.1	16.2	16.0	22.4	24.6	31.2	38.5
L11A	22:10:20	-0.2	0.6	2.9	1.5	6.3	4.6	10.2	10.2	16.4	16.6	22.6	26.2	31.3	39.0
L12	22:12:45	-0.1	0.7	3.5	1.5	6.8	4.4	10.4	11.1	17.6	17.9	24.9	27.5	31.0	41.2
L12	22:13:28	-0.1	0.6	2.9	1.6	6.7	4.4	10.4	11.2	17.7	18.0	24.9	27.5	31.1	41.3
L12	22:14:11	-0.2	0.7	2.8	1.5	6.7	4.5	10.4	11.2	17.8	18.1	25.0	27.6	31.1	41.4
L12	22:16:14	-0.1	0.7	3.0	1.5	6.6	4.3	10.4	11.2	17.8	18.3	25.0	27.6	31.0	41.3
L13	22:17:34	-0.1	0.7	2.9	1.6	7.2	4.5	11.3	12.1	19.9	20.1	26.5	29.5	35.0	43.1
L13	22:18:07	-0.0	0.6	3.0	1.6	7.2	4.6	11.4	12.3	20.2	20.2	26.5	29.5	35.0	43.2
L13	22:19:04	0.0	0.7	3.0	1.6	7.2	4.5	11.6	12.4	20.7	20.3	26.5	29.6	35.0	43.3
L13	22:21:05	0.0	0.6	2.9	1.6	7.2	4.6	11.7	12.5	21.2	20.5	26.6	29.7	35.2	43.6
L14	22:22:39	0.1	0.5	2.8	1.5	7.5	5.0	12.7	14.0	21.7	22.1	27.9	31.9	36.8	46.2
L14	22:23:19	0.1	0.5	2.9	1.6	7.6	5.0	13.0	14.0	21.7	22.3	28.0	32.2	36.9	46.5
L14	22:24:12	-0.0	0.5	2.8	1.6	7.6	5.2	13.4	14.2	22.2	22.8	28.1	32.6	36.8	47.0
L14	22:26:09	-0.1	0.5	2.9	1.6	7.6	5.4	14.5	14.9	22.7	24.1	27.9	34.2	36.5	48.5
L15	22:28:16	-0.1	0.4	2.7	1.6	7.4	6.0	15.8	16.2	25.3	26.1	28.6	37.5	36.5	52.0
L15	22:29:00	-0.0	0.5	2.7	1.5	8.4	6.5	16.9	17.2	25.9	27.3	28.8	38.5	37.0	52.4
L15	22:29:54	-0.0	0.5	2.8	1.6	8.7	7.4	19.0	18.6	26.1	28.7	32.3	38.5	42.0	51.6
L15A	22:30:44	-0.0	0.5	2.9	1.5	6.8	7.6	19.3	18.1	25.8	28.0	32.1	36.4	41.8	49.6
L15B	22:31:54	0.3	0.5	2.7	1.6	7.4	7.6	19.2	17.9	25.9	27.4	31.6	35.8	40.6	47.8
U1	22:35:59	-0.0	0.4	2.5	1.6	7.3	7.2	17.5	16.7	25.2	25.3	30.3	33.7	38.3	45.1
U2	22:40:30	0.0	0.4	2.5	1.6	5.7	6.5	15.5	15.2	22.1	22.7	28.2	29.8	35.0	38.4
U3	22:44:38	0.2	0.3	2.0	0.8	3.5	4.6	12.6	12.4	18.7	19.4	26.0	23.8	31.5	29.5
U4	22:48:42	-0.0	0.1	1.6	0.6	4.7	4.6	10.6	10.3	16.1	16.0	21.9	20.0	27.3	24.5
U5	22:52:59	0.1	0.1	1.2	0.6	2.6	3.2	8.1	8.7	13.8	13.1	18.2	16.2	22.1	19.7
U6	22:57:02	0.0	0.1	0.6	0.3	0.4	2.0	5.4	5.1	9.0	8.1	11.3	9.3	13.1	12.2

Table F.24 continued

VIBRATING WIRE CALCULATED STRAIN INCREMENTS

VLW 1 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 1	VW STRN MICRO STRAIN 2	VW STRN MICRO STRAIN 31	VW STRN MICRO STRAIN 32	VW STRN MICRO STRAIN 33	VW STRN MICRO STRAIN 34	VW STRN MICRO STRAIN 19	VW STRN MICRO STRAIN 20	VW STRN MICRO STRAIN 9	VW STRN MICRO STRAIN 10	VW STRN MICRO STRAIN 11	VW STRN MICRO STRAIN 12	VW STRN MICRO STRAIN 39	VW STRN MICRO STRAIN 40
U7	23:00:49	0.0	-0.1	-0.1	-0.1	-0.0	-0.0	0.2	-0.1	0.1	0.0	0.0	0.1	-0.1	-0.0
U7A	23:03:52	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U8	23:15:00	-0.2	-0.2	-0.4	-0.1	-0.1	-0.2	-0.6	0.1	-0.4	-0.4	0.3	-0.1	-0.1	-0.0
U8	23:30:00	-0.3	-0.6	-0.7	-0.3	-0.4	-0.7	-0.9	0.1	-0.8	-0.6	0.5	-0.1	-0.0	0.0
U8	23:45:00	-0.3	-0.9	-0.5	-0.4	-0.9	-1.4	-1.1	-0.1	-1.0	-0.9	0.7	-0.1	0.1	0.1
U8	00:00:00	-0.4	-1.1	-0.4	-0.5	-1.3	-1.8	-1.3	-0.3	-1.2	-1.2	1.0	-0.1	0.2	0.1
U8	00:15:00	-0.5	-1.8	-0.2	-0.5	-1.6	-2.2	-1.3	-0.3	-1.2	-1.3	1.2	-0.1	0.2	0.2
U8	00:30:00	-0.5	-2.3	-0.3	-0.6	-2.1	-2.3	-1.3	-0.5	-1.4	-1.2	1.3	-0.1	0.2	0.2
U8	00:45:00	-0.6	-2.6	-0.3	-0.7	-2.2	-1.1	-1.5	-0.5	-1.5	-1.1	1.5	-0.1	0.2	0.2
U8	01:00:00	-0.8	-2.6	-0.4	-0.7	-2.2	-1.2	-1.7	-0.5	-1.6	-1.2	1.6	-0.0	3.7	0.3
U8	01:15:00	-0.8	-2.7	-0.6	-0.9	-2.3	-1.3	-1.9	-0.6	-1.6	-1.2	1.7	-0.1	4.5	0.3
U8	01:30:00	-0.9	-2.8	-0.7	-0.8	-2.3	-1.5	-3.4	-0.6	-1.7	-1.2	1.9	0.0	4.7	0.4
U8	01:45:00	-0.9	-2.9	-0.8	-1.0	-2.4	-1.3	-3.6	-0.6	-1.8	-1.4	2.0	0.1	4.7	0.5
U8	02:00:00	-1.0	-3.0	-1.0	-1.2	-2.4	-1.3	-3.4	-0.6	-1.9	-1.7	2.1	0.1	4.8	0.5
U8	02:15:00	-1.1	-3.1	-1.2	-1.2	-2.4	-1.4	-3.4	-0.6	-1.9	-2.1	2.2	0.1	4.8	0.6
U8	02:30:00	-1.1	-3.3	-1.4	-1.2	-2.5	-1.5	-3.6	-0.6	-2.0	-2.3	2.6	0.2	4.6	0.6
U8	02:45:00	-1.2	-3.4	-1.5	-1.3	-2.5	-1.6	-3.8	-0.6	-2.0	-2.5	2.8	0.2	4.5	0.7
U8	03:00:00	-1.2	-3.5	-1.7	-1.4	-2.5	-1.7	-4.0	-0.6	-2.0	-2.6	3.0	0.3	3.4	0.8
U8	03:15:00	-1.4	-3.7	-1.8	-1.4	-2.5	-1.8	-4.1	-0.6	-2.0	-2.6	3.3	0.4	3.3	0.9
U8	03:30:00	-1.4	-3.8	-1.8	-1.4	-2.5	-1.9	-4.3	-0.5	-2.0	-2.7	3.5	0.4	3.3	0.9
U8	03:45:00	-1.5	-3.9	-1.9	-1.4	-2.5	-2.0	-4.3	-0.5	-2.1	-2.7	3.8	0.5	3.4	1.0
U8	04:00:00	-1.5	-4.0	-1.9	-1.4	-2.6	-2.1	-4.4	-0.5	-2.1	-2.7	3.9	0.6	3.5	1.1
U8	04:15:00	-1.5	-4.0	-1.9	-1.5	-2.6	-2.3	-4.4	-0.5	-2.1	-2.7	4.0	0.6	3.7	1.2
U8	04:30:00	-1.7	-4.2	-1.9	-1.4	-2.6	-2.4	-4.5	-0.4	-2.1	-2.7	4.1	0.7	3.9	1.3
U8	04:45:00	-1.7	-4.3	-1.9	-1.4	-2.6	-2.5	-4.6	-0.4	-2.1	-2.8	4.1	0.9	4.0	1.4
U8	05:00:00	-1.7	-4.3	-2.0	-1.4	-2.6	-2.7	-4.6	-0.4	-2.2	-2.7	4.3	1.0	4.2	1.4
U8	05:15:00	-1.7	-4.4	-2.0	-1.4	-2.6	-2.8	-4.7	-0.4	-2.2	-2.8	4.3	1.1	4.3	1.6
U8	05:30:00	-1.8	-4.4	-2.0	-1.5	-2.6	-2.9	-4.9	-0.4	-2.0	-2.8	4.4	1.2	4.5	1.6
U8	05:45:00	-2.0	-4.4	-2.2	-1.6	-2.6	-3.2	-5.0	-0.4	-2.1	-2.9	4.4	1.3	4.5	1.7
U8	06:00:00	-1.9	-4.6	-2.2	-1.7	-2.7	-3.2	-5.3	-0.3	-2.0	-2.8	4.4	1.4	4.7	1.8
U8	06:15:00	-2.1	-4.6	-2.3	-1.8	-2.7	-3.1	-5.5	-0.3	-2.1	-2.9	4.5	1.4	4.8	1.9
U8	06:30:00	-2.1	-4.8	-2.4	-2.0	-2.8	-3.0	-5.8	-0.3	-2.0	-2.9	4.6	1.5	4.9	2.0
U8	06:45:00	-2.1	-4.8	-2.5	-2.3	-2.8	-2.9	-6.0	-0.4	-2.0	-2.9	4.5	1.6	4.9	2.1
U8	07:00:00	-2.2	-4.8	-2.7	-2.5	-2.8	-2.8	-6.3	-0.5	-2.0	-3.0	4.7	1.6	5.0	2.1
U8	07:15:00	-2.3	-4.9	-2.8	-2.5	-2.8	-2.7	-6.5	-0.5	-2.1	-3.1	4.8	1.7	5.1	2.2
U8	07:30:00	-2.3	-5.0	-2.9	-2.6	-2.9	-2.8	-6.5	-0.5	-2.1	-3.1	4.8	1.8	5.2	2.2
U8	07:45:00	-2.4	-5.0	-3.0	-2.7	-2.9	-2.9	-5.7	-0.6	-2.1	-3.2	4.8	1.8	5.3	2.3
U8	08:00:00	-2.4	-5.0	-3.3	-2.8	-3.1	-3.0	-5.1	-0.6	-2.2	-3.2	4.8	1.9	5.3	2.3
U8	08:15:00	-2.5	-5.1	-3.4	-2.9	-3.2	-3.1	-5.0	-0.7	-2.2	-3.3	4.9	1.9	5.4	2.4
U8	08:30:00	-2.5	-5.1	-3.5	-3.1	-3.3	-3.4	-5.0	-0.8	-2.3	-3.4	4.9	1.9	5.4	2.4
U8	08:45:00	-2.7	-5.1	-3.6	-3.1	-3.4	-3.7	-5.0	-0.9	-2.4	-3.5	4.9	2.0	5.4	2.4
U8	09:00:00	-2.7	-5.2	-3.6	-3.3	-3.4	-3.9	-5.1	-1.0	-2.4	-3.4	4.9	2.0	5.5	2.4
U8	10:00:00	-3.1	-5.1	-3.5	-3.9	-4.0	-5.0	-6.6	-2.0	-3.1	-3.9	4.8	1.9	4.8	2.5

Table F.24 continued

VIBRATING WIRE CALCULATED STRAIN (4 MINUTE READINGS)

VLW 1 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 1	VW STRN MICRO STRAIN 2	VW STRN MICRO STRAIN 31	VW STRN MICRO STRAIN 32	VW STRN MICRO STRAIN 33	VW STRN MICRO STRAIN 34	VW STRN MICRO STRAIN 19	VW STRN MICRO STRAIN 20	VW STRN MICRO STRAIN 9	VW STRN MICRO STRAIN 10	VW STRN MICRO STRAIN 11	VW STRN MICRO STRAIN 12	VW STRN MICRO STRAIN 39	VW STRN MICRO STRAIN 40
L0	17:00:00	-0.1	-2.3	3.3	1.1	2.8	2.6	-0.2	-0.2	-2.1	-2.0	3.5	1.6	6.0	6.2
L1	21:14:51	0.1	-2.6	3.4	1.2	2.8	2.2	-0.6	-0.3	-2.3	-1.7	3.5	1.6	6.3	6.5
L2	21:20:38	0.1	-2.6	3.1	1.3	3.1	2.1	-0.7	-0.2	-2.4	-1.7	3.4	1.6	6.1	6.9
L3	21:25:36	0.1	-2.6	3.1	1.4	2.9	2.0	-0.8	-0.3	-2.3	-1.7	3.4	1.6	6.0	7.6
L4	21:30:32	-0.1	-2.8	3.2	1.4	3.0	1.8	-0.8	-0.3	-2.3	-1.7	3.4	1.8	6.1	8.3
L5	21:35:25	-0.1	-2.5	3.0	1.4	3.0	1.9	-0.7	-0.4	-2.0	-1.9	3.5	2.1	6.1	9.5
L6	21:40:33	-0.1	-2.6	2.9	1.4	2.9	1.9	-0.4	-0.3	-1.7	-1.8	3.6	2.2	10.0	11.1
L7	21:45:43	-0.2	-2.3	2.9	1.4	3.1	2.2	0.6	0.6	-0.8	-1.0	4.4	4.1	10.4	13.4
L8	21:50:38	-0.1	-2.5	2.9	1.5	3.4	2.5	0.6	1.2	0.5	0.2	5.8	6.1	11.2	15.5
L9	21:55:34	-0.0	-2.4	3.1	1.5	3.8	2.7	1.9	1.9	1.0	0.7	6.6	7.7	11.8	18.0
L10	22:00:35	-0.2	-1.9	2.9	1.5	4.9	3.0	3.4	3.1	4.2	4.9	4.3	17.3	6.2	32.3
L11	22:05:20	-0.2	0.8	3.1	1.5	6.4	4.7	9.5	10.1	16.2	16.0	22.4	24.6	31.2	38.5
L11A	22:10:20	-0.2	0.6	2.9	1.5	6.3	4.6	10.2	10.2	16.4	16.6	22.6	26.2	31.3	39.0
L12	22:16:14	-0.1	0.7	3.0	1.5	6.6	4.3	10.4	11.2	17.8	18.3	25.0	27.6	31.0	41.3
L13	22:21:05	0.0	0.6	2.9	1.6	7.2	4.6	11.7	12.5	21.2	20.5	26.6	29.7	35.2	43.6
L14	22:26:09	-0.1	0.5	2.9	1.6	7.6	5.4	14.5	14.9	22.7	24.1	27.9	34.2	36.5	48.5
L15	22:29:54	-0.0	0.5	2.8	1.6	8.7	7.4	19.0	18.6	26.1	28.7	32.3	38.5	42.0	51.6
L15A	22:30:44	-0.0	0.5	2.9	1.5	6.8	7.6	19.3	18.1	25.8	28.0	32.1	36.4	41.8	49.6
L15B	22:31:54	0.3	0.5	2.7	1.6	7.4	7.6	19.2	17.9	25.9	27.4	31.6	35.8	40.6	47.8
U1	22:35:59	-0.0	0.4	2.5	1.6	7.3	7.2	17.5	16.7	25.2	25.3	30.3	33.7	38.3	45.1
U2	22:40:30	0.0	0.4	2.5	1.6	5.7	6.5	15.5	15.2	22.1	22.7	28.2	29.8	35.0	38.4
U3	22:44:38	0.2	0.3	2.0	0.8	3.5	4.6	12.6	12.4	18.7	19.4	26.0	23.8	31.5	29.5
U4	22:48:42	-0.0	0.1	1.6	0.6	4.7	4.6	10.6	10.3	16.1	16.0	21.9	20.0	27.3	24.5
U5	22:52:59	0.1	0.1	1.2	0.6	2.6	3.2	8.1	8.7	13.8	13.1	18.2	16.2	22.1	19.7
U6	22:57:02	0.0	0.1	0.6	0.3	0.4	2.0	5.4	5.1	9.0	8.1	11.3	9.3	13.1	12.2
U7	23:00:49	0.0	-0.1	-0.1	-0.1	-0.0	-0.0	0.2	-0.1	0.1	0.0	0.0	0.1	-0.1	-0.0
U7A	23:03:52	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table F.24 continued

AVERAGE STRAIN AT EACH GAGE LEVEL, INTEGRATED PILE COMPRESSION & COMPARISON WITH TELLTALE MEASUREMENT (4 MINUTE READINGS)

VLW 1 LOAD NUMBER	AVG VW MICRO STRAIN SURFACE	AVG VW MICRO STRAIN 1+2	AVG VW MICRO STRAIN 31+32	AVG VW MICRO STRAIN 33+34	AVG VW MICRO STRAIN 19+20	AVG VW MICRO STRAIN 9+10	AVG VW MICRO STRAIN 11+12	AVG VW MICRO STRAIN 39+40	EST'D. MICRO STRAIN CELL TOP	PILE COMPRESSION SG MSMT. INCHES	TT MSMT. INCHES	ABS.DIFF. SG-TT INCHES
L0	0.0	-1.2	2.2	2.7	-0.2	-2.1	2.6	6.1	0.0	0.0006	0.0000	0.0006
L1	0.0	-1.3	2.3	2.5	-0.5	-2.0	2.5	6.4	4.9	0.0006	0.0000	0.0006
L2	0.0	-1.3	2.2	2.6	-0.5	-2.0	2.5	6.5	9.0	0.0006	-0.0000	0.0006
L3	0.0	-1.3	2.2	2.4	-0.6	-2.0	2.5	6.8	14.0	0.0006	-0.0000	0.0006
L4	0.0	-1.4	2.3	2.4	-0.6	-2.0	2.6	7.2	18.8	0.0006	-0.0001	0.0008
L5	0.0	-1.3	2.2	2.5	-0.5	-2.0	2.8	7.8	23.7	0.0007	-0.0001	0.0008
L6	0.0	-1.4	2.1	2.4	-0.3	-1.8	2.9	10.6	28.5	0.0007	-0.0001	0.0009
L7	0.0	-1.2	2.2	2.6	0.6	-0.9	4.3	11.9	33.2	0.0011	-0.0002	0.0013
L8	0.0	-1.3	2.2	3.0	0.9	0.4	5.9	13.4	37.9	0.0014	-0.0001	0.0015
L9	0.0	-1.2	2.3	3.2	1.9	0.8	7.1	14.9	42.7	0.0017	-0.0000	0.0018
L10	0.0	-1.1	2.2	4.0	3.3	4.5	10.8	19.3	47.6	0.0026	0.0006	0.0021
L11	0.0	0.3	2.3	5.5	9.8	16.1	23.5	34.9	52.3	0.0058	0.0027	0.0030
L11A	0.0	0.2	2.2	5.5	10.2	16.5	24.4	35.1	52.3	0.0059	0.0028	0.0030
L12	0.0	0.3	2.2	5.4	10.8	18.0	26.3	36.1	54.9	0.0062	0.0033	0.0029
L13	0.0	0.3	2.2	5.9	12.1	20.8	28.2	39.4	57.4	0.0068	0.0035	0.0034
L14	0.0	0.2	2.3	6.5	14.7	23.4	31.1	42.5	60.1	0.0077	0.0042	0.0035
L15	0.0	0.2	2.2	8.0	18.8	27.4	35.4	46.8	62.5	0.0090	0.0052	0.0038
L15A	0.0	0.3	2.2	7.2	18.7	26.9	34.3	45.7	57.6	0.0087	0.0056	0.0031
L15B	0.0	0.4	2.1	7.5	18.6	26.6	33.7	44.2	52.4	0.0087	0.0056	0.0031
U1	0.0	0.2	2.0	7.3	17.1	25.3	32.0	41.7	49.2	0.0082	0.0053	0.0029
U2	0.0	0.2	2.0	6.1	15.4	22.4	29.0	36.7	36.4	0.0073	0.0046	0.0027
U3	0.0	0.3	1.4	4.0	12.5	19.0	24.9	30.5	27.8	0.0059	0.0035	0.0024
U4	0.0	0.0	1.1	4.6	10.4	16.0	21.0	25.9	23.0	0.0051	0.0027	0.0025
U5	0.0	0.1	0.9	2.9	8.4	13.5	17.2	20.9	18.3	0.0041	0.0017	0.0024
U6	0.0	0.1	0.5	1.2	5.2	8.6	10.3	12.6	10.7	0.0024	0.0001	0.0023
U7	0.0	-0.0	-0.1	-0.0	0.1	0.1	0.1	-0.1	0.0	-0.0000	-0.0017	0.0016
U7A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0000	-0.0020	0.0020
ELEV. FT	4.57	-1.06	-11.81	-27.81	-35.81	-44.81	-52.81	-54.31	-54.81			

Table F.24 continued

VIBRATING WIRE CALCULATED AVERAGE LOADS (4 MINUTE READINGS)

LA = 1.50 ft ACA = 317.115 si
LB = 0.50 ft ACB = 313.155 si
B = 18.00 in ASA = 3.538 si
ES = 27500.0 ksi ASB = 7.498 si

VLW 1 LOAD NUMBER	AVG VW LOAD TONS SURFACE	AVG VW LOAD TONS 1+2	AVG VW LOAD TONS 31+32	AVG VW LOAD TONS 33+34	AVG VW LOAD TONS 19+20	AVG VW LOAD TONS 9+10	AVG VW LOAD TONS 11+12	AVG VW LOAD TONS 39+40	OSTERBERG LOAD TONS BOTTOM	INCR. PILE MODULUS KSI	CALC. PILE A MODULUS KSI	CALC. PILE B MODULUS KSI
L0	0.0	-1.01	1.82	2.22	-0.15	-1.74	2.24	5.33	0.0		5135.5	5411.2
L1	0.0	-1.05	1.94	2.09	-0.38	-1.64	2.22	5.59	4.3	90872.4	5135.5	5411.2
L2	0.0	-1.06	1.85	2.16	-0.41	-1.70	2.20	5.67	7.9	237452.2	5135.5	5411.2
L3	0.0	-1.04	1.87	2.03	-0.48	-1.68	2.20	5.96	12.3	81805.8	5135.5	5411.2
L4	0.0	-1.20	1.91	2.00	-0.46	-1.65	2.31	6.31	16.5	64422.9	5135.5	5411.2
L5	0.0	-1.08	1.85	2.04	-0.43	-1.64	2.45	6.84	20.8	44200.3	5135.5	5411.2
L6	0.0	-1.14	1.78	1.99	-0.26	-1.47	2.55	9.26	25.0	9333.9	5135.5	5411.2
L7	0.0	-1.03	1.81	2.20	0.51	-0.72	3.74	10.40	29.1	19841.9	5135.5	5411.2
L8	0.0	-1.10	1.83	2.46	0.76	0.31	5.20	11.72	33.3	16988.6	5135.5	5411.2
L9	0.0	-1.01	1.93	2.68	1.55	0.68	6.26	13.08	37.4	16464.5	5135.5	5411.2
L10	0.0	-0.88	1.83	3.31	2.72	3.77	9.47	16.90	41.7	6103.6	5135.5	5411.2
L11	0.0	0.26	1.95	4.60	8.17	13.40	20.58	30.55	45.9	1642.3	5135.5	5411.2
L11A	0.0	0.15	1.83	4.57	8.52	13.71	21.41	30.80	45.9		5135.5	5411.2
L12	0.0	0.27	1.87	4.53	8.97	15.01	23.02	31.68	48.1	13736.8	5135.5	5411.2
L13	0.0	0.25	1.87	4.90	10.08	17.34	24.69	34.50	50.4	4311.4	5135.5	5411.2
L14	0.0	0.17	1.87	5.40	12.24	19.49	27.22	37.28	52.7	4587.3	5135.5	5411.2
L15	0.0	0.19	1.81	6.67	15.61	22.78	31.01	41.05	54.8		5135.5	5411.2
L15A	0.0	0.22	1.83	5.98	15.57	22.41	30.03	40.10	50.5		5135.5	5411.2
L15B	0.0	0.31	1.78	6.25	15.45	22.16	29.51	38.76	45.9		5135.5	5411.2
U1	0.0	0.16	1.69	6.04	14.21	21.02	28.06	36.57	43.1		5135.5	5411.2
U2	0.0	0.17	1.69	5.09	12.78	18.64	25.42	32.18	31.9		5135.5	5411.2
U3	0.0	0.21	1.19	3.37	10.42	15.85	21.82	26.75	24.4		5135.5	5411.2
U4	0.0	0.04	0.92	3.86	8.66	13.33	18.37	22.71	20.2		5135.5	5411.2
U5	0.0	0.08	0.76	2.41	6.99	11.21	15.06	18.31	16.1		5135.5	5411.2
U6	0.0	0.05	0.39	1.01	4.33	7.13	9.06	11.07	9.4		5135.5	5411.2
U7	0.0	-0.01	-0.08	-0.02	0.05	0.05	0.05	-0.04	0.0		5135.5	5411.2
U7A	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0		5135.5	5411.2

ELEV. FT	4.57	-1.06	-11.81	-27.81	-35.81	-44.81	-52.81	-54.31	-54.81	4940.2 KSI = CONCRETE MODULUS

Table F.24 continued

INTEGRATED MOVEMENT AT VW STRAIN GAGE (4 MINUTE READINGS)

VLW 1 LOAD NUMBER	VW MOVEMENT INCHES SURFACE	VW MOVEMENT INCHES 1+2	VW MOVEMENT INCHES 31+32	VW MOVEMENT INCHES 33+34	VW MOVEMENT INCHES 19+20	VW MOVEMENT INCHES 9+10	VW MOVEMENT INCHES 11+12	VW MOVEMENT INCHES 39+40	VW MOVEMENT INCHES CELL TOP
L0	-0.0006	-0.0006	-0.0006	-0.0001	0.0000	-0.0001	-0.0001	-0.0000	0.0000
L1	-0.0006	-0.0006	-0.0006	-0.0001	-0.0000	-0.0001	-0.0001	-0.0000	0.0000
L2	-0.0006	-0.0007	-0.0006	-0.0002	-0.0001	-0.0002	-0.0002	-0.0001	-0.0000
L3	-0.0006	-0.0007	-0.0006	-0.0002	-0.0001	-0.0002	-0.0002	-0.0001	-0.0000
L4	-0.0008	-0.0008	-0.0008	-0.0003	-0.0002	-0.0003	-0.0003	-0.0002	-0.0001
L5	-0.0008	-0.0008	-0.0008	-0.0003	-0.0002	-0.0004	-0.0003	-0.0002	-0.0001
L6	-0.0009	-0.0009	-0.0009	-0.0004	-0.0003	-0.0004	-0.0004	-0.0003	-0.0001
L7	0.0087	0.0087	0.0088	0.0092	0.0094	0.0094	0.0095	0.0097	0.0098
L8	0.0085	0.0084	0.0085	0.0090	0.0091	0.0092	0.0095	0.0097	0.0099
L9	0.0082	0.0082	0.0083	0.0088	0.0091	0.0092	0.0096	0.0098	0.0100
L10	0.0179	0.0179	0.0180	0.0186	0.0189	0.0193	0.0201	0.0203	0.0206
L11	0.0970	0.0970	0.0972	0.0979	0.0987	0.1001	0.1020	0.1025	0.1027
L11A	0.1270	0.1270	0.1272	0.1279	0.1286	0.1301	0.1321	0.1326	0.1328
L12	0.1471	0.1471	0.1473	0.1480	0.1488	0.1503	0.1525	0.1530	0.1533
L13	0.1766	0.1766	0.1768	0.1776	0.1784	0.1802	0.1826	0.1832	0.1834
L14	0.2465	0.2465	0.2467	0.2475	0.2486	0.2506	0.2532	0.2539	0.2542
L15	0.4962	0.4962	0.4964	0.4973	0.4986	0.5011	0.5041	0.5049	0.5052
L15A	0.7169	0.7169	0.7170	0.7179	0.7192	0.7216	0.7246	0.7253	0.7256
L15B	0.8169	0.8169	0.8171	0.8180	0.8193	0.8217	0.8246	0.8253	0.8256
U1	0.8571	0.8571	0.8572	0.8581	0.8593	0.8616	0.8643	0.8650	0.8652
U2	0.8573	0.8573	0.8575	0.8583	0.8593	0.8613	0.8638	0.8644	0.8646
U3	0.8476	0.8476	0.8477	0.8482	0.8490	0.8507	0.8528	0.8533	0.8535
U4	0.8475	0.8475	0.8476	0.8482	0.8489	0.8503	0.8521	0.8525	0.8527
U5	0.8376	0.8376	0.8377	0.8380	0.8386	0.8398	0.8412	0.8416	0.8417
U6	0.8177	0.8177	0.8178	0.8179	0.8182	0.8190	0.8199	0.8201	0.8202
U7	0.7884	0.7884	0.7883	0.7883	0.7883	0.7883	0.7884	0.7884	0.7884
U7A	0.7881	0.7881	0.7881	0.7881	0.7881	0.7881	0.7881	0.7881	0.7881

Table F.24 continued

INTEGRATED MOVEMENT AT SEGMENT CL (4 MINUTE READINGS)

VLW 1 LOAD NUMBER CL.ELEV.	AVG VW MOVEMENT INCHES 1.76	AVG VW MOVEMENT INCHES -6.44	AVG VW MOVEMENT INCHES -19.81	AVG VW MOVEMENT INCHES -31.81	AVG VW MOVEMENT INCHES -40.31	AVG VW MOVEMENT INCHES -48.81	AVG VW MOVEMENT INCHES -53.56
L0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L7	0.0087	0.0087	0.0090	0.0093	0.0094	0.0094	0.0096
L8	0.0084	0.0084	0.0087	0.0091	0.0092	0.0094	0.0096
L9	0.0082	0.0082	0.0085	0.0089	0.0091	0.0094	0.0097
L10	0.0179	0.0179	0.0183	0.0187	0.0191	0.0197	0.0202
L11	0.0970	0.0971	0.0975	0.0983	0.0994	0.1010	0.1022
L11A	0.1270	0.1271	0.1275	0.1283	0.1294	0.1311	0.1323
L12	0.1471	0.1472	0.1476	0.1484	0.1496	0.1514	0.1527
L13	0.1766	0.1767	0.1772	0.1780	0.1793	0.1814	0.1829
L14	0.2465	0.2466	0.2471	0.2480	0.2496	0.2519	0.2536
L15	0.4962	0.4963	0.4969	0.4980	0.4999	0.5026	0.5045
L15A	0.7169	0.7169	0.7175	0.7185	0.7204	0.7231	0.7249
L15B	0.8169	0.8170	0.8176	0.8186	0.8205	0.8232	0.8250
U1	0.8571	0.8571	0.8577	0.8587	0.8604	0.8629	0.8646
U2	0.8573	0.8574	0.8579	0.8588	0.8603	0.8626	0.8641
U3	0.8476	0.8476	0.8480	0.8486	0.8499	0.8518	0.8531
U4	0.8475	0.8476	0.8479	0.8485	0.8496	0.8512	0.8523
U5	0.8376	0.8376	0.8379	0.8383	0.8392	0.8405	0.8414
U6	0.8177	0.8177	0.8178	0.8181	0.8186	0.8194	0.8200
U7	0.7884	0.7884	0.7883	0.7883	0.7883	0.7883	0.7884
U7A	0.7881	0.7881	0.7881	0.7881	0.7881	0.7881	0.7881

Table F.24 continued

AVERAGE SEGMENT SHEAR STRESS (4 MINUTE READINGS)

VLW 1 LOAD NUMBER CL.ELEV.	AVG VW SHEAR TSF 1.76	AVG VW SHEAR TSF -6.44	AVG VW SHEAR TSF -19.81	AVG VW SHEAR TSF -31.81	AVG VW SHEAR TSF -40.31	AVG VW SHEAR TSF -48.81	AVG VW SHEAR TSF -53.56
L0	-0.046	0.027	-0.012	-0.066	-0.046	0.066	0.327
L1	-0.047	0.030	-0.015	-0.068	-0.040	0.064	0.357
L2	-0.048	0.029	-0.013	-0.070	-0.040	0.065	0.369
L3	-0.047	0.029	-0.015	-0.069	-0.039	0.064	0.401
L4	-0.052	0.032	-0.015	-0.068	-0.038	0.066	0.429
L5	-0.048	0.029	-0.014	-0.068	-0.039	0.069	0.471
L6	-0.050	0.029	-0.014	-0.063	-0.039	0.067	0.729
L7	-0.047	0.028	-0.012	-0.052	-0.039	0.076	0.724
L8	-0.049	0.029	-0.010	-0.052	-0.025	0.085	0.707
L9	-0.046	0.029	-0.009	-0.040	-0.033	0.100	0.741
L10	-0.042	0.026	-0.001	-0.029	0.003	0.102	0.810
L11	-0.009	0.010	0.011	0.058	0.081	0.133	1.092
L11A	-0.012	0.010	0.012	0.066	0.080	0.144	1.027
L12	-0.009	0.008	0.011	0.076	0.095	0.150	0.946
L13	-0.009	0.009	0.015	0.091	0.118	0.137	1.074
L14	-0.012	0.010	0.020	0.126	0.118	0.145	1.101
L15	-0.011	0.009	0.034	0.170	0.116	0.155	1.100
L15A	-0.010	0.008	0.027	0.183	0.110	0.142	1.102
L15B	-0.007	0.006	0.030	0.175	0.108	0.137	1.012
U1	-0.012	0.007	0.029	0.154	0.110	0.130	0.928
U2	-0.011	0.007	0.019	0.144	0.092	0.125	0.735
U3	-0.010	-0.001	0.006	0.131	0.084	0.108	0.531
U4	-0.015	-0.003	0.014	0.084	0.070	0.089	0.466
U5	-0.014	-0.006	0.001	0.079	0.062	0.064	0.345
U6	-0.015	-0.011	-0.010	0.053	0.035	0.024	0.207
U7	-0.017	-0.018	-0.016	-0.015	-0.017	-0.016	-0.026
U7A	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016

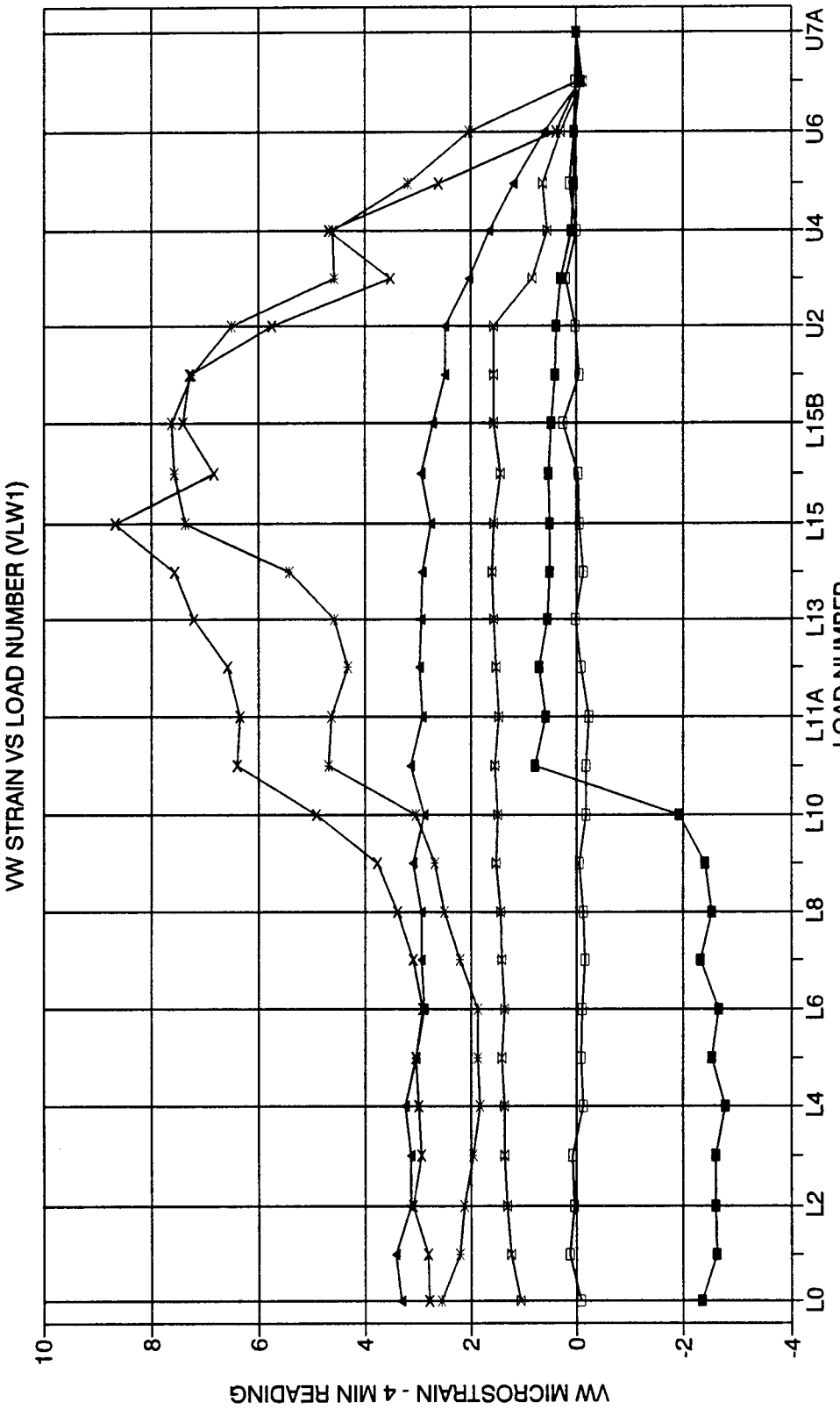

Figure F.125 Strain at Pile Top: Vilano West Load Test 1

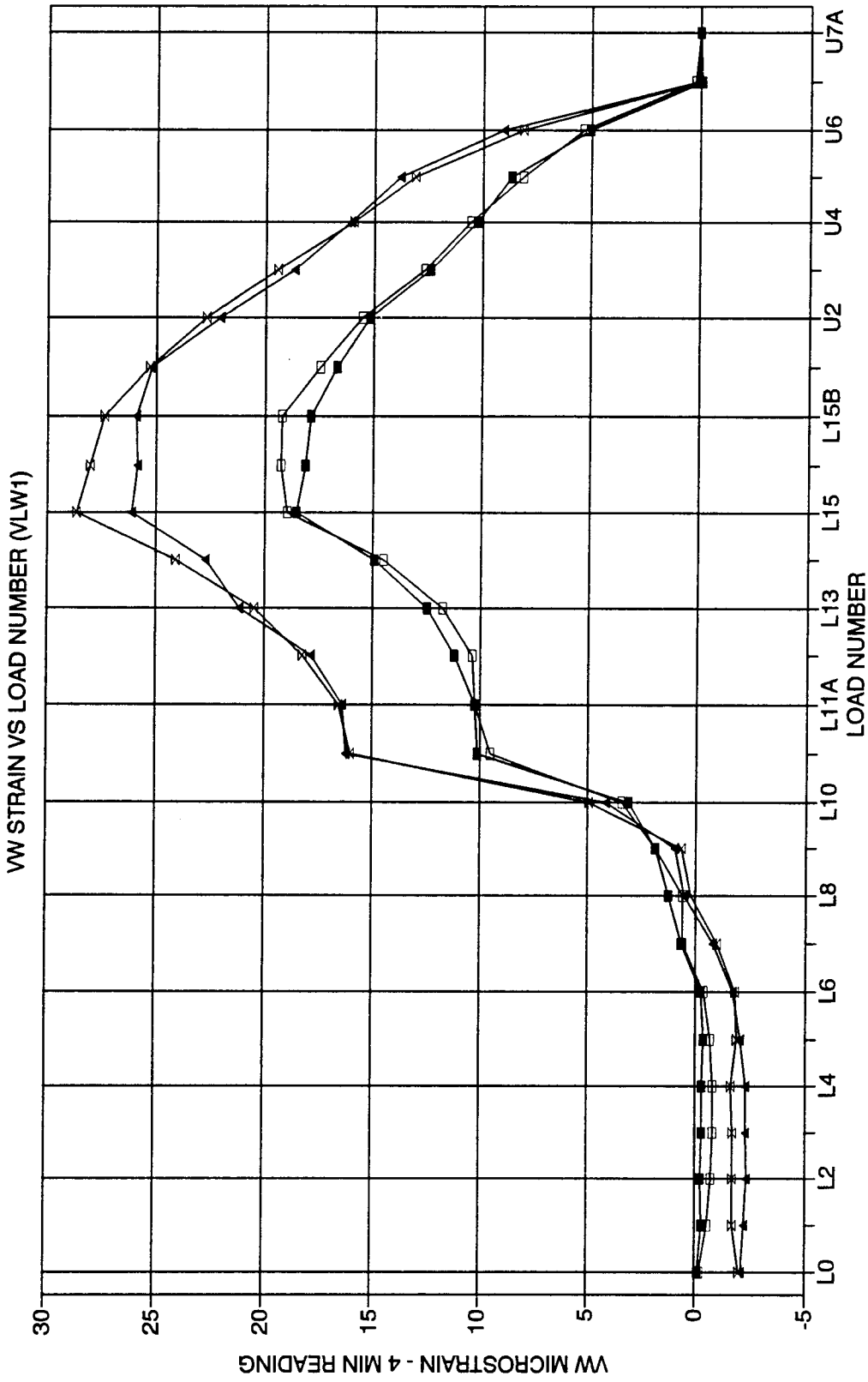

Figure F.126 Strain at Pile Bottom: Vilano West Load Test 1

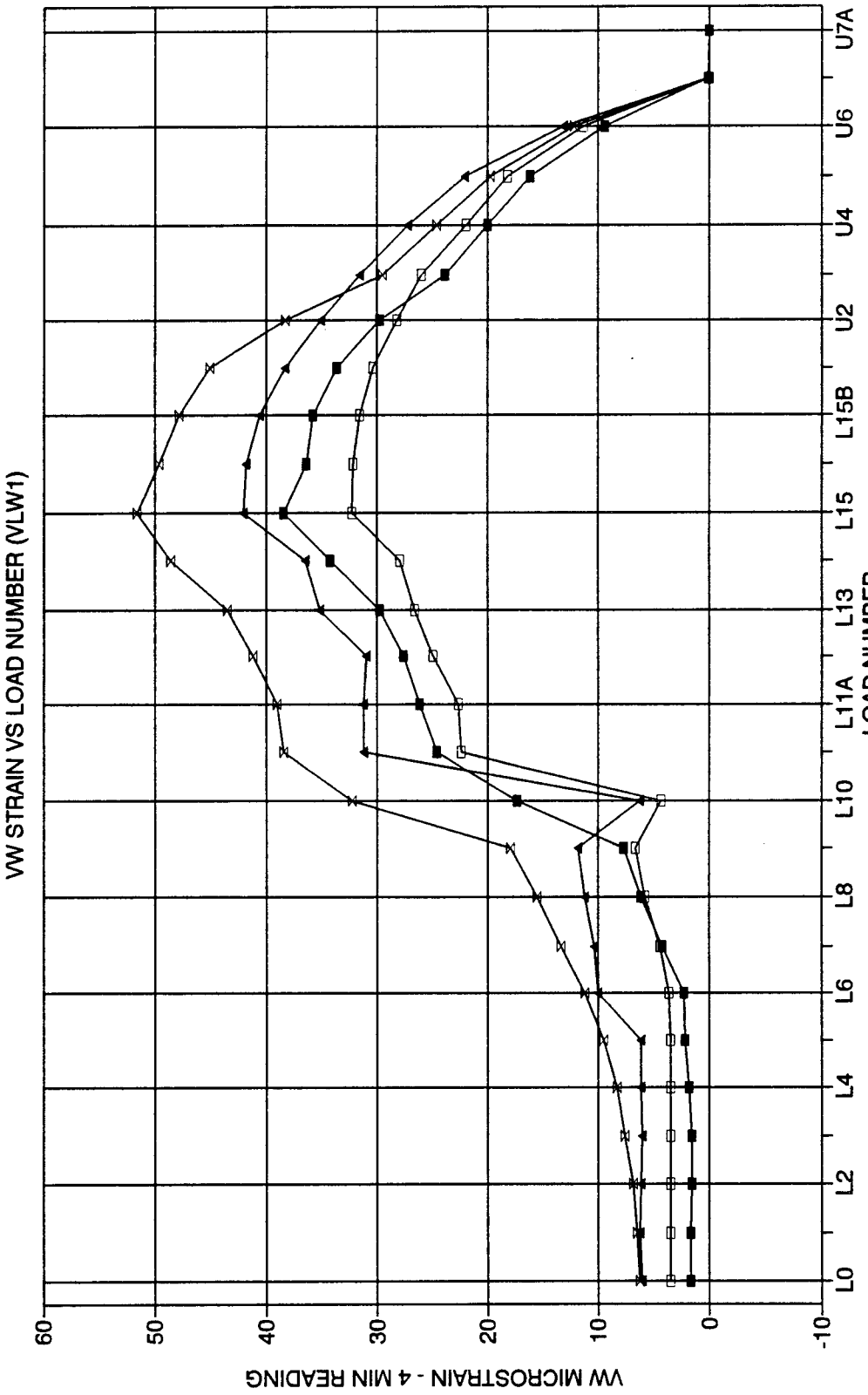

Figure F.127 Strain at Pile Bottom: Vilano West Load Test 1

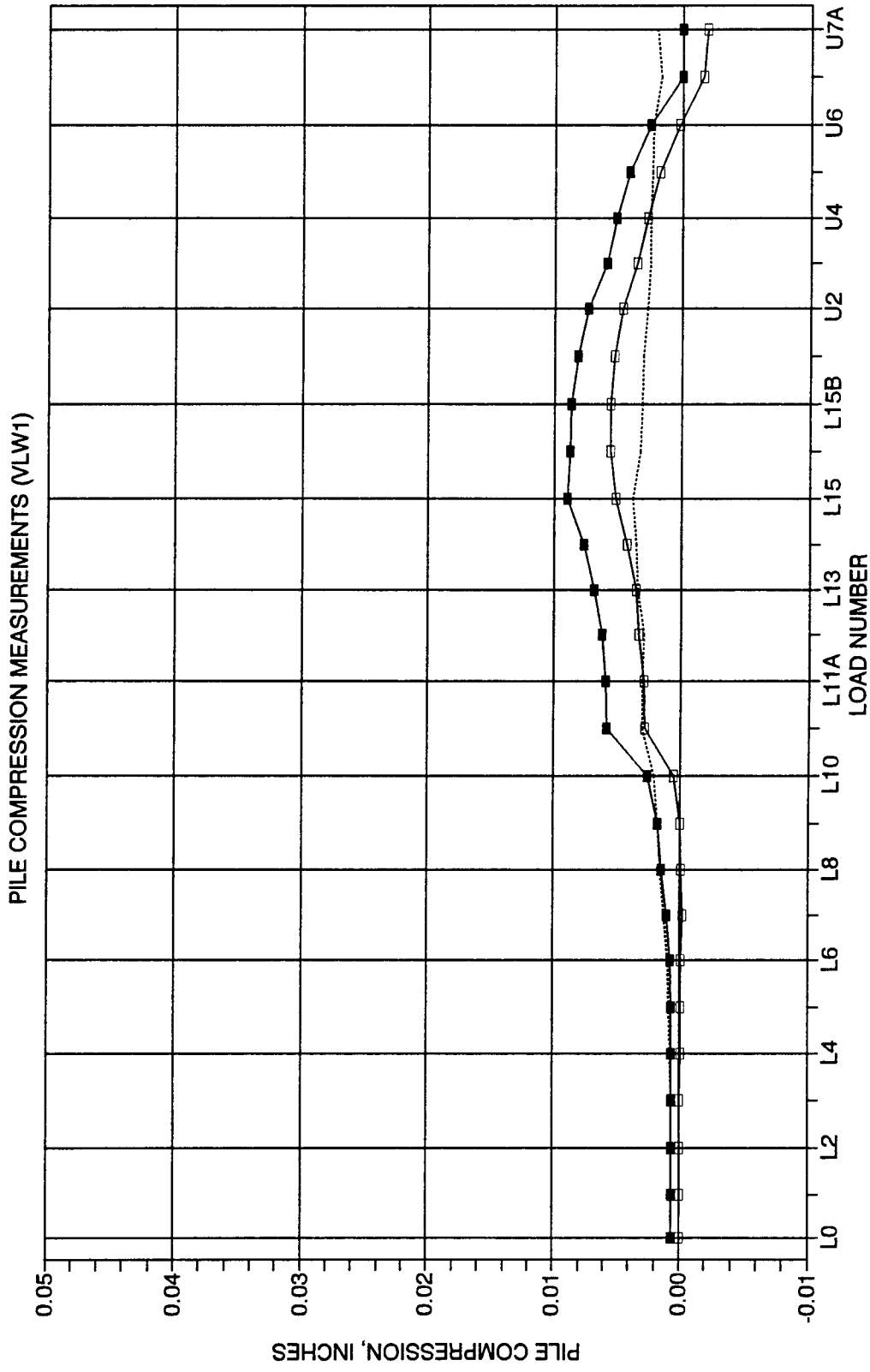

Figure F.128 Pile Compression Measurements: Vilano West Load Test 1

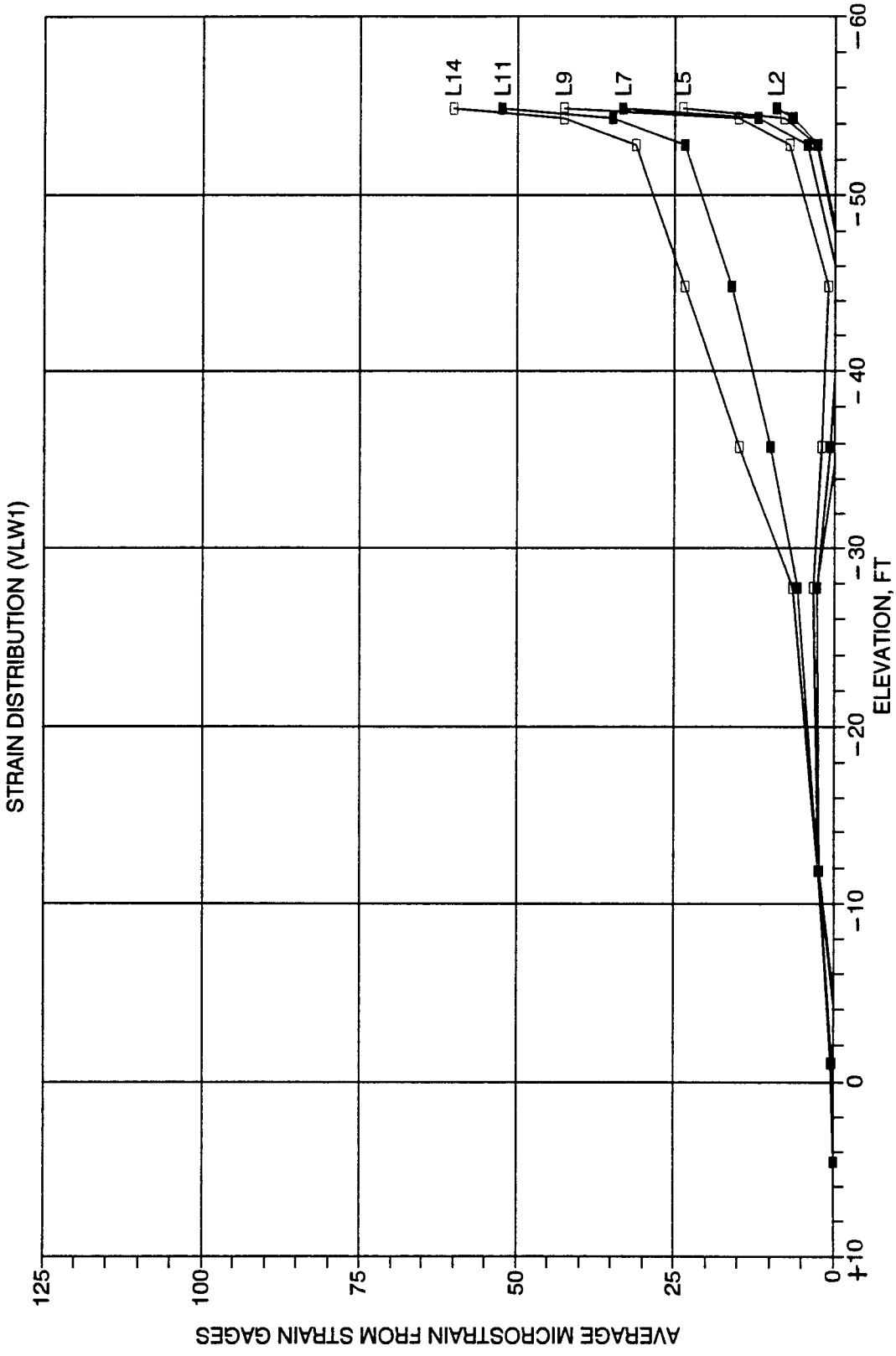

Figure F.129 Pile Strain Distribution: Vilano West Load Test 1

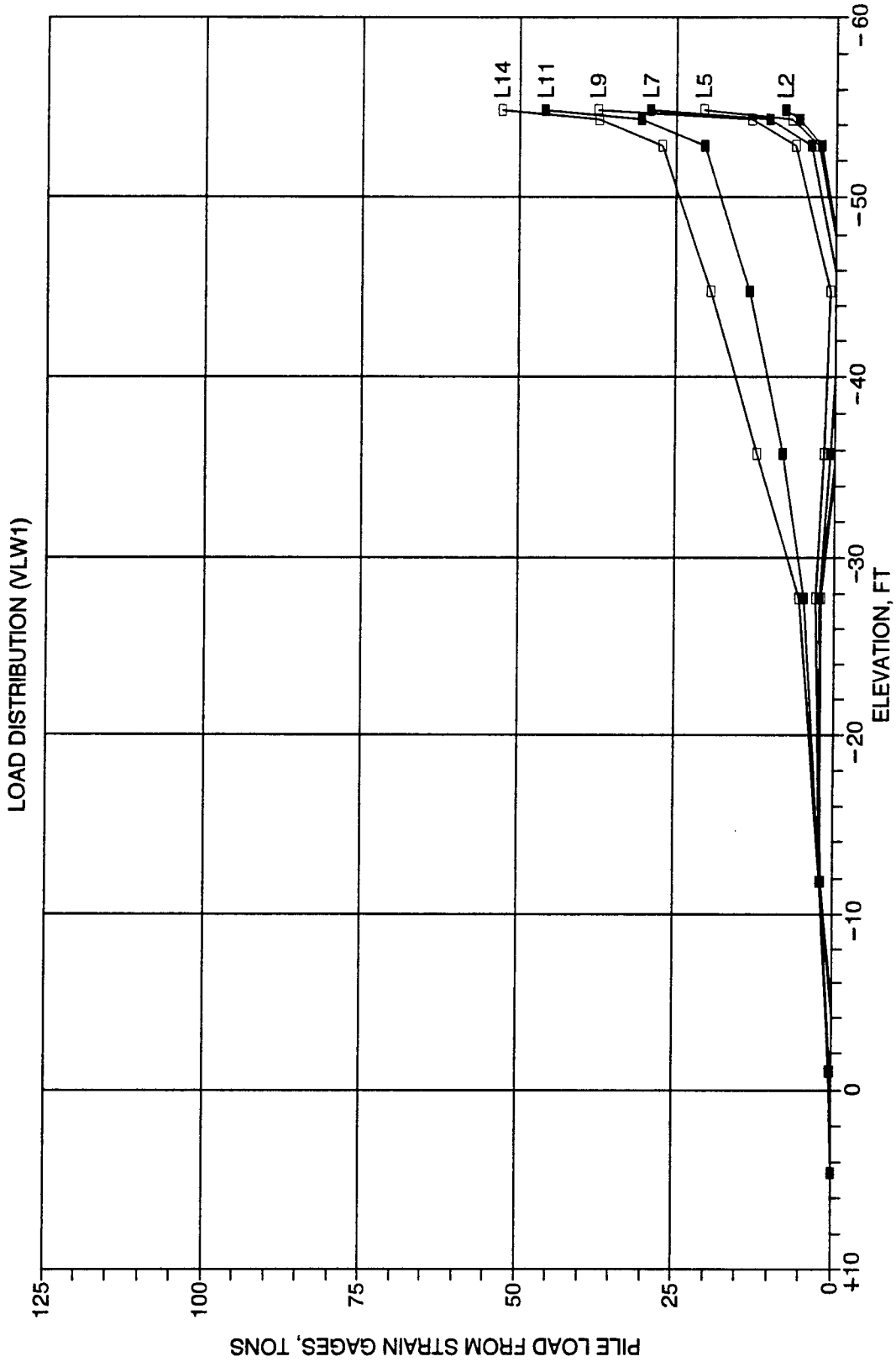

Figure F.130 Pile Load Distribution: Vilano West Load Test 1

Table F.25 Strain Analyses: Vilano West Load Test 2

VIBRATING WIRE INSTRUMENT READINGS - STRAIN

VLW 2 LOAD NUMBER	TIME	VW STRN FREQ^2 KHZ^2 1	VW STRN FREQ^2 KHZ^2 2	VW STRN FREQ^2 KHZ^2 31	VW STRN FREQ^2 KHZ^2 32	VW STRN FREQ^2 KHZ^2 33	VW STRN FREQ^2 KHZ^2 34	VW STRN FREQ^2 KHZ^2 19	VW STRN FREQ^2 KHZ^2 20	VW STRN FREQ^2 KHZ^2 9	VW STRN FREQ KHZ^2 10	VW STRN FREQ KHZ^2 11	VW STRN FREQ KHZ^2 12	VW STRN FREQ KHZ^2 39	VW STRN FREQ KHZ^2 40
L0	10:18:04	0.71661	0.68410	0.73384	0.66242	0.68116	0.60482	0.66222	0.68595	0.66155	0.65588	0.74063	0.76126	0.83822	0.77073
L0	10:19:02	0.71660	0.68409	0.73384	0.66241	0.68115	0.60483	0.66223	0.68596	0.66154	0.65588	0.74064	0.76126	0.83826	0.77072
L0	10:20:03	0.71661	0.68409	0.73384	0.66242	0.68115	0.60482	0.66221	0.68596	0.66161	0.65590	0.74064	0.76126	0.83821	0.77072
L0	10:59:38	0.71669	0.68406	0.73393	0.66244	0.68126	0.60494	0.66231	0.68601	0.66146	0.65603	0.74068	0.76130	0.83829	0.77073
L1	11:07:16	0.71661	0.68407	0.73393	0.66244	0.68125	0.60491	0.66228	0.68600	0.66147	0.65593	0.74067	0.76114	0.83809	0.77035
L1	11:07:47	0.71662	0.68410	0.73393	0.66246	0.68123	0.60494	0.66228	0.68601	0.66151	0.65597	0.74068	0.76116	0.83808	0.77036
L1	11:08:45	0.71664	0.68410	0.73394	0.66247	0.68124	0.60494	0.66227	0.68601	0.66144	0.65595	0.74066	0.76114	0.83809	0.77035
L1	11:10:45	0.71662	0.68410	0.73393	0.66247	0.68124	0.60492	0.66227	0.68602	0.66150	0.65592	0.74063	0.76112	0.83811	0.77034
L2	11:12:19	0.71661	0.68406	0.73383	0.66241	0.68108	0.60479	0.66213	0.68596	0.66152	0.65560	0.74058	0.76074	0.83795	0.76942
L2	11:12:51	0.71660	0.68409	0.73388	0.66243	0.68109	0.60481	0.66212	0.68594	0.66136	0.65558	0.74056	0.76073	0.83798	0.76939
L2	11:13:51	0.71664	0.68405	0.73389	0.66244	0.68110	0.60480	0.66211	0.68595	0.66145	0.65560	0.74057	0.76073	0.83796	0.76941
L2	11:15:51	0.71662	0.68412	0.73390	0.66244	0.68108	0.60479	0.66212	0.68596	0.66147	0.65557	0.74053	0.76071	0.83796	0.76937
L3	11:17:23	0.71661	0.68412	0.73371	0.66238	0.68076	0.60440	0.66195	0.68558	0.66104	0.65504	0.74028	0.75943	0.83769	0.76769
L3	11:17:53	0.71661	0.68406	0.73370	0.66236	0.68075	0.60441	0.66198	0.68557	0.66102	0.65502	0.74026	0.75943	0.83769	0.76767
L3	11:18:51	0.71663	0.68410	0.73372	0.66237	0.68074	0.60439	0.66198	0.68557	0.66102	0.65498	0.74027	0.75940	0.83765	0.76767
L3	11:20:53	0.71662	0.68409	0.73369	0.66240	0.68077	0.60437	0.66198	0.68557	0.66100	0.65498	0.74023	0.75940	0.83765	0.76767
L4	11:22:16	0.71657	0.68412	0.73349	0.66230	0.68027	0.60423	0.66108	0.68482	0.66019	0.65404	0.73896	0.75801	0.83586	0.76582
L4	11:22:46	0.71657	0.68409	0.73347	0.66228	0.68024	0.60414	0.66105	0.68481	0.66017	0.65403	0.73895	0.75802	0.83584	0.76581
L4	11:23:45	0.71659	0.68403	0.73350	0.66229	0.68026	0.60412	0.66108	0.68481	0.66016	0.65401	0.73895	0.75801	0.83582	0.76584
L4	11:25:45	0.71659	0.68410	0.73349	0.66229	0.68054	0.60425	0.66106	0.68480	0.66017	0.65400	0.73893	0.75802	0.83585	0.76583
L5	11:27:12	0.71655	0.68409	0.73335	0.66217	0.67993	0.60361	0.66040	0.68413	0.65918	0.65310	0.73741	0.75665	0.83414	0.76399
L5	11:27:47	0.71655	0.68410	0.73334	0.66217	0.67994	0.60361	0.66041	0.68413	0.65919	0.65311	0.73744	0.75665	0.83415	0.76399
L5	11:28:45	0.71656	0.68408	0.73335	0.66217	0.67990	0.60361	0.66040	0.68413	0.65923	0.65308	0.73742	0.75665	0.83411	0.76398
L5	11:30:43	0.71656	0.68406	0.73336	0.66219	0.67991	0.60359	0.66040	0.68411	0.65926	0.65306	0.73741	0.75660	0.83413	0.76397
L6	11:32:18	0.71654	0.68409	0.73321	0.66203	0.67938	0.60328	0.65954	0.68318	0.65803	0.65202	0.73572	0.75526	0.83231	0.76212
L6	11:32:49	0.71656	0.68410	0.73322	0.66203	0.67939	0.60327	0.65955	0.68317	0.65800	0.65201	0.73573	0.75525	0.83230	0.76211
L6	11:33:48	0.71656	0.68409	0.73320	0.66203	0.67939	0.60327	0.65953	0.68318	0.65797	0.65201	0.73576	0.75524	0.83231	0.76212
L6	11:35:44	0.71655	0.68408	0.73325	0.66204	0.67936	0.60326	0.65953	0.68314	0.65794	0.65199	0.73571	0.75526	0.83233	0.76213
L7	11:37:12	0.71655	0.68407	0.73307	0.66193	0.67864	0.60289	0.65894	0.68244	0.65635	0.65092	0.73450	0.75362	0.83035	0.76022
L7	11:37:45	0.71653	0.68410	0.73307	0.66193	0.67864	0.60289	0.65891	0.68242	0.65633	0.65088	0.73449	0.75363	0.83034	0.76021
L7	11:38:38	0.71654	0.68407	0.73309	0.66193	0.67862	0.60289	0.65891	0.68240	0.65630	0.65085	0.73447	0.75362	0.83033	0.76020
L7	11:40:38	0.71652	0.68404	0.73306	0.66189	0.67861	0.60289	0.65885	0.68237	0.65624	0.65081	0.73447	0.75358	0.83031	0.76020
L8	11:42:50	0.71654	0.68409	0.73296	0.66183	0.67902	0.60259	0.65803	0.68160	0.65531	0.64959	0.73284	0.75237	0.82854	0.75826
L8	11:43:23	0.71654	0.68408	0.73298	0.66185	0.67901	0.60255	0.65800	0.68154	0.65524	0.64955	0.73283	0.75236	0.82851	0.75826
L8	11:44:22	0.71653	0.68410	0.73299	0.66185	0.67898	0.60254	0.65797	0.68152	0.65520	0.64955	0.73283	0.75236	0.82853	0.75826
L8	11:46:20	0.71655	0.68409	0.73295	0.66184	0.67895	0.60253	0.65794	0.68149	0.65514	0.64953	0.73280	0.75233	0.82852	0.75825
L9	11:48:06	0.71654	0.68410	0.73293	0.66179	0.67866	0.60232	0.65726	0.68122	0.65513	0.64897	0.73217	0.75145	0.82819	0.75738
L9	11:48:43	0.71654	0.68409	0.73293	0.66180	0.67866	0.60231	0.65723	0.68119	0.65505	0.64891	0.73210	0.75143	0.82819	0.75738
L9	11:49:40	0.71657	0.68406	0.73293	0.66181	0.67865	0.60230	0.65721	0.68116	0.65501	0.64890	0.73212	0.75140	0.82817	0.75734
L9	11:51:37	0.71656	0.68406	0.73293	0.66179	0.67865	0.60227	0.65721	0.68115	0.65497	0.64889	0.73214	0.75143	0.82821	0.75737
L10	11:53:00	0.71658	0.68404	0.73290	0.66179	0.67852	0.60228	0.65711	0.68065	0.65427	0.64836	0.73134	0.75074	0.82679	0.75640
L10	11:53:32	0.71655	0.68408	0.73290	0.66179	0.67852	0.60227	0.65710	0.68061	0.65423	0.64833	0.73137	0.75074	0.82677	0.75640
L10	11:54:35	0.71653	0.68407	0.73289	0.66178	0.67852	0.60229	0.65705	0.68055	0.65420	0.64829	0.73141	0.75072	0.82680	0.75639

Table F.25 continued

VIBRATING WIRE INSTRUMENT READINGS - STRAIN

VLW 2 LOAD NUMBER	TIME	VW STRN FREQ^2 KHZ^2 1	VW STRN FREQ^2 KHZ^2 2	VW STRN FREQ^2 KHZ^2 31	VW STRN FREQ^2 KHZ^2 32	VW STRN FREQ^2 KHZ^2 33	VW STRN FREQ^2 KHZ^2 34	VW STRN FREQ^2 KHZ^2 19	VW STRN FREQ^2 KHZ^2 20	VW STRN FREQ^2 KHZ^2 9	VW STRN FREQ KHZ^2 10	VW STRN FREQ KHZ^2 11	VW STRN FREQ KHZ^2 12	VW STRN FREQ KHZ^2 39	VW STRN FREQ KHZ^2 40
L10	11:56:32	0.71656	0.68408	0.73290	0.66179	0.67851	0.60233	0.65703	0.68052	0.65416	0.64825	0.73136	0.75073	0.82683	0.75641
L11	11:58:12	0.71655	0.68410	0.73287	0.66176	0.67827	0.60246	0.65666	0.68028	0.65380	0.64769	0.73062	0.74980	0.82599	0.75550
L11	11:58:44	0.71655	0.68406	0.73288	0.66176	0.67828	0.60245	0.65665	0.68028	0.65377	0.64767	0.73063	0.74980	0.82604	0.75549
L11	11:59:44	0.71654	0.68409	0.73287	0.66175	0.67828	0.60245	0.65664	0.68028	0.65372	0.64764	0.73063	0.74980	0.82601	0.75551
L11	12:01:41	0.71656	0.68408	0.73288	0.66178	0.67826	0.60239	0.65657	0.68033	0.65366	0.64759	0.73062	0.74979	0.82602	0.75551
L12	12:03:38	0.71657	0.68408	0.73285	0.66175	0.67809	0.60194	0.65598	0.67989	0.65295	0.64723	0.72994	0.74922	0.82506	0.75449
L12	12:04:11	0.71658	0.68406	0.73287	0.66175	0.67807	0.60194	0.65594	0.67987	0.65293	0.64718	0.72994	0.74918	0.82511	0.75449
L12	12:05:12	0.71655	0.68410	0.73287	0.66174	0.67809	0.60194	0.65593	0.67986	0.65295	0.64713	0.72997	0.74918	0.82510	0.75448
L12	12:07:08	0.71653	0.68410	0.73288	0.66171	0.67804	0.60189	0.65591	0.67983	0.65297	0.64709	0.72997	0.74920	0.82508	0.75449
L13	12:08:41	0.71654	0.68408	0.73282	0.66174	0.67798	0.60177	0.65579	0.67949	0.65240	0.64647	0.72920	0.74869	0.82431	0.75373
L13	12:09:13	0.71657	0.68409	0.73285	0.66173	0.67798	0.60174	0.65575	0.67948	0.65237	0.64645	0.72920	0.74866	0.82421	0.75371
L13	12:10:08	0.71657	0.68409	0.73281	0.66175	0.67797	0.60173	0.65574	0.67946	0.65233	0.64639	0.72920	0.74867	0.82431	0.75371
L13	12:12:13	0.71657	0.68408	0.73285	0.66174	0.67799	0.60174	0.65573	0.67944	0.65231	0.64637	0.72920	0.74867	0.82430	0.75373
L14	12:13:38	0.71657	0.68406	0.73279	0.66174	0.67789	0.60165	0.65522	0.67931	0.65139	0.64582	0.72836	0.74785	0.82317	0.75277
L14	12:14:09	0.71656	0.68410	0.73279	0.66174	0.67797	0.60164	0.65521	0.67925	0.65137	0.64582	0.72841	0.74790	0.82328	0.75278
L14	12:15:08	0.71654	0.68410	0.73277	0.66173	0.67790	0.60165	0.65515	0.67929	0.65140	0.64577	0.72840	0.74784	0.82318	0.75280
L14	12:17:10	0.71658	0.68410	0.73282	0.66175	0.67793	0.60163	0.65514	0.67880	0.65142	0.64574	0.72834	0.74784	0.82321	0.75277
L15	12:18:31	0.71658	0.68408	0.73275	0.66173	0.67782	0.60147	0.65469	0.67854	0.65105	0.64520	0.72769	0.74707	0.82266	0.75192
L15	12:19:04	0.71657	0.68410	0.73277	0.66172	0.67782	0.60147	0.65469	0.67854	0.65101	0.64519	0.72765	0.74707	0.82265	0.75192
L15	12:20:03	0.71655	0.68404	0.73274	0.66177	0.67785	0.60144	0.65471	0.67849	0.65099	0.64514	0.72763	0.74706	0.82262	0.75190
L15	12:22:04	0.71655	0.68408	0.73276	0.66178	0.67795	0.60139	0.65462	0.67846	0.65094	0.64509	0.72763	0.74705	0.82262	0.75192
L16	12:23:53	0.71656	0.68409	0.73272	0.66177	0.67785	0.60108	0.65434	0.67810	0.65002	0.64437	0.72691	0.74625	0.82156	0.75113
L16	12:24:24	0.71654	0.68409	0.73277	0.66177	0.67786	0.60105	0.65433	0.67805	0.65001	0.64432	0.72689	0.74625	0.82162	0.75110
L16	12:25:34	0.71656	0.68409	0.73272	0.66182	0.67790	0.60100	0.65431	0.67802	0.64995	0.64431	0.72689	0.74621	0.82160	0.75112
L16	12:27:24	0.71657	0.68406	0.73269	0.66183	0.67798	0.60096	0.65429	0.67800	0.64992	0.64424	0.72690	0.74620	0.82162	0.75117
L17	12:28:50	0.71655	0.68411	0.73283	0.66186	0.67795	0.60101	0.65363	0.67752	0.64966	0.64378	0.72624	0.74566	0.82096	0.75041
L17	12:29:26	0.71657	0.68407	0.73275	0.66185	0.67795	0.60095	0.65360	0.67749	0.64961	0.64375	0.72622	0.74578	0.82099	0.75045
L17	12:30:20	0.71657	0.68407	0.73278	0.66185	0.67797	0.60102	0.65362	0.67749	0.64953	0.64372	0.72626	0.74590	0.82105	0.75051
L17	12:32:18	0.71659	0.68411	0.73271	0.66186	0.67794	0.60095	0.65362	0.67753	0.64968	0.64381	0.72656	0.74622	0.82145	0.75081
L17A	12:34:02	0.71656	0.68408	0.73273	0.66193	0.67794	0.60080	0.65385	0.67757	0.64969	0.64407	0.72670	0.74653	0.82163	0.75145
U1	12:38:06	0.71656	0.68407	0.73278	0.66198	0.67820	0.60090	0.65438	0.67800	0.65014	0.64511	0.72772	0.74749	0.82294	0.75276
U2	12:42:41	0.71658	0.68406	0.73271	0.66203	0.67844	0.60103	0.65464	0.67826	0.65089	0.64553	0.72827	0.74815	0.82380	0.75391
U3	12:47:06	0.71658	0.68407	0.73285	0.66219	0.67913	0.60163	0.65560	0.67929	0.65142	0.64642	0.72876	0.74986	0.82455	0.75645
U4	12:51:07	0.71661	0.68407	0.73302	0.66233	0.67937	0.60228	0.65673	0.68020	0.65335	0.64799	0.73065	0.75256	0.82667	0.75941
U5	12:55:06	0.71667	0.68410	0.73326	0.66243	0.67964	0.60243	0.65806	0.68146	0.65533	0.64970	0.73334	0.75495	0.83000	0.76262
U6	12:59:07	0.71661	0.68406	0.73339	0.66250	0.68065	0.60293	0.65928	0.68284	0.65702	0.65188	0.73643	0.75752	0.83361	0.76599
U7	13:02:50	0.71667	0.68409	0.73370	0.66255	0.68083	0.60364	0.66112	0.68481	0.66041	0.65499	0.74119	0.76186	0.83898	0.77109
U7A	13:05:50	0.71668	0.68405	0.73369	0.66255	0.68091	0.60365	0.66110	0.68483	0.66050	0.65515	0.74124	0.76187	0.83902	0.77109
U8	13:15:00	0.71670	0.68409	0.73377	0.66254	0.68096	0.60365	0.66110	0.68486	0.66050	0.65515	0.74116	0.76184	0.83897	0.77099
U8	13:30:00	0.71672	0.68404	0.73380	0.66254	0.68102	0.60366	0.66110	0.68486	0.66047	0.65506	0.74102	0.76187	0.83901	0.77082
U8	13:45:00	0.71672	0.68409	0.73382	0.66255	0.68102	0.60367	0.66110	0.68485	0.66041	0.65497	0.74091	0.76178	0.83867	0.77070
U8	14:00:00	0.71672	0.68409	0.73385	0.66255	0.68103	0.60369	0.66110	0.68484	0.66037	0.65494	0.74084	0.76167	0.83843	0.77060
U8	14:15:00	0.71674	0.68409	0.73388	0.66255	0.68099	0.60369	0.66110	0.68483	0.66031	0.65489	0.74073	0.76153	0.83822	0.77050

Table F.25 continued

VIBRATING WIRE INSTRUMENT READINGS - TEMPERATURE

VLW 2 LOAD NUMBER	TIME	VW STRN TEMP DEG C 1	VW STRN TEMP DEG C 2	VW STRN TEMP DEG C 31	VW STRN TEMP DEG C 32	VW STRN TEMP DEG C 33	VW STRN TEMP DEG C 34	VW STRN TEMP DEG C 19	VW STRN TEMP DEG C 20	VW STRN TEMP DEG C 9	VW STRN TEMP DEG C 10	VW STRN TEMP DEG C 11	VW STRN TEMP DEG C 12	VW STRN TEMP DEG C 39	VW STRN TEMP DEG C 40
L0	10:18:04	25.924	25.790	23.887	23.790	22.390	23.022	23.309	22.642	23.405	22.484	23.341	22.107	22.769	22.991
L0	10:19:02	25.924	25.790	23.887	23.790	22.358	23.022	23.279	22.644	23.407	22.518	23.311	22.109	22.770	22.961
L0	10:20:03	25.927	25.793	23.889	23.792	22.360	22.992	23.279	22.644	23.407	22.518	23.311	22.109	22.802	22.961
L0	10:59:38	25.923	25.790	23.886	23.789	22.357	22.990	23.276	22.641	23.404	22.515	23.340	22.106	22.768	22.958
L1	11:07:16	25.923	25.790	23.886	23.789	22.357	22.990	23.276	22.641	23.404	22.515	23.372	22.106	22.768	22.958
L1	11:07:47	25.923	25.790	23.886	23.789	22.357	22.990	23.276	22.641	23.404	22.515	23.340	22.106	22.768	22.958
L1	11:08:45	25.923	25.790	23.886	23.789	22.357	22.990	23.276	22.641	23.404	22.483	23.340	22.106	22.768	22.958
L1	11:10:45	25.923	25.789	23.886	23.789	22.357	23.021	23.276	22.641	23.404	22.515	23.340	22.137	22.799	22.958
L2	11:12:19	25.923	25.790	23.918	23.789	22.357	22.990	23.308	22.641	23.404	22.515	23.372	22.106	22.768	22.958
L2	11:12:51	25.923	25.790	23.886	23.789	22.357	22.990	23.276	22.641	23.404	22.483	23.372	22.106	22.768	22.958
L2	11:13:51	25.923	25.790	23.886	23.789	22.389	22.990	23.308	22.673	23.404	22.483	23.340	22.106	22.768	22.958
L2	11:15:51	25.923	25.789	23.886	23.822	22.357	22.990	23.276	22.641	23.436	22.483	23.340	22.137	22.768	22.958
L3	11:17:23	25.923	25.789	23.886	23.789	22.389	22.990	23.276	22.641	23.404	22.483	23.340	22.106	22.768	22.990
L3	11:17:53	25.923	25.789	23.886	23.789	22.389	22.990	23.308	22.641	23.436	22.483	23.340	22.106	22.799	22.990
L3	11:18:51	25.923	25.789	23.918	23.789	22.357	22.990	23.276	22.641	23.404	22.515	23.308	22.106	22.768	22.990
L3	11:20:53	25.923	25.790	23.886	23.789	22.357	23.021	23.276	22.641	23.404	22.515	23.308	22.106	22.768	22.990
L4	11:22:16	25.923	25.790	23.886	23.789	22.389	22.990	23.276	22.641	23.404	22.483	23.340	22.106	22.768	22.990
L4	11:22:46	25.957	25.790	23.886	23.822	22.357	22.990	23.276	22.641	23.436	22.483	23.340	22.106	22.768	23.021
L4	11:23:45	25.923	25.789	23.886	23.789	22.357	22.990	23.308	22.641	23.404	22.483	23.340	22.106	22.768	22.990
L4	11:25:45	25.957	25.789	23.886	23.821	22.389	22.990	23.308	22.641	23.436	22.483	23.372	22.106	22.768	22.990
L5	11:27:12	25.923	25.789	23.886	23.789	22.357	22.990	23.276	22.641	23.404	22.483	23.372	22.106	22.767	22.990
L5	11:27:47	25.957	25.789	23.886	23.789	22.389	22.990	23.276	22.641	23.436	22.483	23.340	22.106	22.767	22.990
L5	11:28:45	25.923	25.789	23.886	23.789	22.357	23.021	23.308	22.641	23.404	22.483	23.340	22.137	22.799	22.990
L5	11:30:43	25.923	25.789	23.886	23.789	22.357	22.989	23.276	22.641	23.404	22.515	23.340	22.106	22.768	22.989
L6	11:32:18	25.923	25.789	23.886	23.789	22.357	22.989	23.308	22.641	23.402	22.481	23.338	22.135	22.765	22.987
L6	11:32:49	25.921	25.787	23.884	23.787	22.387	22.987	23.306	22.639	23.402	22.513	23.338	22.104	22.765	22.987
L6	11:33:48	25.921	25.787	23.884	23.787	22.387	22.987	23.274	22.639	23.402	22.481	23.338	22.104	22.765	22.987
L6	11:35:44	25.921	25.787	23.884	23.788	22.355	22.988	23.275	22.639	23.402	22.481	23.306	22.136	22.798	22.988
L7	11:37:12	25.921	25.787	23.884	23.788	22.387	22.988	23.275	22.639	23.434	22.481	23.338	22.104	22.766	22.988
L7	11:37:45	25.921	25.787	23.884	23.788	22.387	22.988	23.275	22.639	23.402	22.481	23.370	22.104	22.766	22.988
L7	11:38:38	25.922	25.788	23.884	23.788	22.387	23.020	23.275	22.640	23.435	22.482	23.339	22.136	22.766	22.988
L7	11:40:38	25.922	25.788	23.884	23.788	22.356	23.020	23.275	22.640	23.403	22.482	23.339	22.105	22.766	22.988
L8	11:42:50	25.922	25.788	23.885	23.788	22.356	23.020	23.275	22.640	23.403	22.482	23.339	22.105	22.766	23.020
L8	11:43:23	25.956	25.822	23.885	23.820	22.356	22.988	23.307	22.640	23.435	22.482	23.339	22.105	22.766	22.988
L8	11:44:22	25.922	25.789	23.885	23.788	22.356	22.989	23.275	22.640	23.403	22.482	23.339	22.137	22.767	22.989
L8	11:46:20	25.922	25.789	23.885	23.788	22.356	22.989	23.275	22.640	23.403	22.482	23.339	22.105	22.798	22.989
L9	11:48:06	25.922	25.789	23.885	23.789	22.388	23.021	23.276	22.672	23.403	22.514	23.339	22.137	22.767	22.989
L9	11:48:43	25.922	25.789	23.918	23.789	22.357	22.989	23.276	22.672	23.403	22.483	23.371	22.137	22.767	23.021
L9	11:49:40	25.922	25.789	23.885	23.789	22.357	22.989	23.276	22.640	23.403	22.483	23.308	22.105	22.767	22.989
L9	11:51:37	25.923	25.789	23.886	23.821	22.357	22.989	23.276	22.640	23.404	22.483	23.372	22.106	22.799	22.989
L10	11:53:00	25.923	25.789	23.918	23.787	22.355	22.987	23.274	22.638	23.401	22.512	23.337	22.104	22.765	22.987
L10	11:53:32	25.920	25.787	23.883	23.787	22.355	22.987	23.274	22.638	23.401	22.481	23.337	22.104	22.797	22.987
L10	11:54:35	25.920	25.787	23.883	23.787	22.355	22.987	23.274	22.638	23.401	22.512	23.337	22.104	22.797	22.987

Table F.25 continued

VIBRATING WIRE INSTRUMENT READINGS - TEMPERATURE

VLW 2 LOAD NUMBER	TIME	VW STRN TEMP DEG C 1	VW STRN TEMP DEG C 2	VW STRN TEMP DEG C 31	VW STRN TEMP DEG C 32	VW STRN TEMP DEG C 33	VW STRN TEMP DEG C 34	VW STRN TEMP DEG C 19	VW STRN TEMP DEG C 20	VW STRN TEMP DEG C 9	VW STRN TEMP DEG C 10	VW STRN TEMP DEG C 11	VW STRN TEMP DEG C 12	VW STRN TEMP DEG C 39	VW STRN TEMP DEG C 40
L10	11:56:32	25.955	25.787	23.884	23.787	22.355	22.987	23.306	22.639	23.402	22.481	23.338	22.135	22.797	22.987
L11	11:58:12	25.921	25.787	23.884	23.787	22.355	22.987	23.306	22.639	23.402	22.481	23.338	22.104	22.765	22.987
L11	11:58:44	25.921	25.787	23.884	23.787	22.355	22.987	23.306	22.637	23.400	22.480	23.336	22.102	22.764	22.986
L11	11:59:44	25.953	25.785	23.882	23.785	22.354	22.986	23.272	22.637	23.400	22.480	23.336	22.102	22.764	22.986
L11	12:01:41	25.919	25.785	23.882	23.785	22.354	22.986	23.272	22.636	23.399	22.478	23.335	22.101	22.762	23.016
L12	12:03:38	25.918	25.784	23.881	23.784	22.352	23.016	23.271	22.636	23.399	22.478	23.303	22.101	22.762	22.984
L12	12:04:11	25.918	25.750	23.881	23.784	22.352	22.984	23.271	22.636	23.431	22.478	23.335	22.101	22.762	22.984
L12	12:05:12	25.919	25.785	23.882	23.785	22.353	22.985	23.272	22.669	23.432	22.479	23.336	22.102	22.763	22.985
L12	12:07:08	25.919	25.785	23.882	23.785	22.353	22.985	23.304	22.637	23.400	22.479	23.368	22.102	22.763	22.985
L13	12:08:41	25.920	25.786	23.915	23.786	22.354	22.986	23.273	22.638	23.401	22.480	23.337	22.103	22.764	22.986
L13	12:09:13	25.920	25.786	23.883	23.786	22.385	22.986	23.273	22.638	23.433	22.480	23.337	22.103	22.796	22.986
L13	12:10:08	25.953	25.752	23.883	23.786	22.385	22.986	23.305	22.638	23.433	22.480	23.369	22.134	22.796	22.986
L13	12:12:13	25.920	25.786	23.883	23.787	22.386	23.019	23.305	22.638	23.401	22.481	23.305	22.104	22.797	23.019
L14	12:13:38	25.918	25.785	23.882	23.785	22.384	23.017	23.304	22.637	23.400	22.479	23.336	22.102	22.763	22.985
L14	12:14:09	25.918	25.785	23.882	23.785	22.353	22.985	23.272	22.637	23.400	22.479	23.336	22.133	22.763	22.985
L14	12:15:08	25.918	25.785	23.882	23.785	22.353	22.985	23.272	22.637	23.400	22.479	23.368	22.102	22.763	22.985
L14	12:17:10	25.919	25.786	23.882	23.786	22.385	23.018	23.273	22.669	23.401	22.511	23.337	22.134	22.796	22.986
L15	12:18:31	25.919	25.786	23.882	23.786	22.354	22.986	23.273	22.669	23.401	22.480	23.337	22.134	22.796	23.018
L15	12:19:04	25.953	25.786	23.882	23.786	22.354	22.986	23.273	22.638	23.401	22.480	23.337	22.103	22.796	22.985
L15	12:20:03	25.918	25.784	23.881	23.784	22.352	23.016	23.303	22.636	23.399	22.478	23.335	22.101	22.763	22.985
L15	12:22:04	25.918	25.751	23.913	23.784	22.384	22.985	23.271	22.636	23.399	22.478	23.335	22.100	22.793	22.983
L16	12:23:53	25.917	25.783	23.880	23.751	22.351	23.015	23.270	22.635	23.398	22.477	23.334	22.100	22.761	22.983
L16	12:24:24	25.917	25.749	23.880	23.751	22.351	22.983	23.270	22.635	23.430	22.477	23.334	22.100	22.761	22.983
L16	12:25:34	25.918	25.751	23.881	23.784	22.352	22.985	23.271	22.636	23.399	22.478	23.335	22.101	22.763	22.985
L16	12:27:24	25.951	25.751	23.881	23.784	22.384	23.016	23.303	22.636	23.399	22.478	23.367	22.101	22.794	22.985
L17	12:28:50	25.919	25.785	23.882	23.753	22.353	22.986	23.304	22.637	23.400	22.479	23.304	22.102	22.764	22.986
L17	12:29:26	25.919	25.785	23.882	23.817	22.353	22.986	23.272	22.637	23.400	22.479	23.336	22.102	22.764	22.986
L17	12:30:20	25.919	25.785	23.882	23.785	22.353	22.986	23.272	22.637	23.400	22.479	23.336	22.102	22.764	22.986
L17	12:32:18	25.917	25.784	23.913	23.784	22.384	22.984	23.271	22.636	23.399	22.478	23.335	22.132	22.762	22.984
L17A	12:34:02	25.917	25.784	23.881	23.752	22.351	22.983	23.302	22.666	23.398	22.477	23.302	22.131	22.761	22.983
U1	12:38:06	25.915	25.748	23.879	23.750	22.350	22.982	23.269	22.634	23.397	22.476	23.333	22.099	22.760	22.982
U2	12:42:41	25.917	25.750	23.880	23.751	22.352	22.984	23.270	22.635	23.397	22.508	23.333	22.131	22.761	22.983
U3	12:47:06	25.917	25.750	23.913	23.752	22.352	23.016	23.271	22.636	23.399	22.478	23.335	22.101	22.762	22.984
U4	12:51:07	25.916	25.749	23.879	23.751	22.351	23.015	23.270	22.635	23.398	22.477	23.302	22.100	22.761	23.015
U5	12:55:06	25.919	25.752	23.882	23.753	22.353	22.985	23.272	22.637	23.400	22.479	23.336	22.102	22.763	23.017
U6	12:59:07	25.917	25.750	23.880	23.751	22.352	22.984	23.303	22.636	23.398	22.478	23.303	22.101	22.762	22.984
U7	13:02:50	25.916	25.749	23.879	23.751	22.351	22.983	23.270	22.634	23.398	22.508	23.333	22.100	22.761	22.983
U7A	13:05:50	25.915	25.748	23.878	23.750	22.350	23.014	23.269	22.634	23.429	22.476	23.333	22.130	22.760	22.982
U8	13:15:00	25.880	25.780	23.877	23.748	22.348	22.981	23.299	22.632	23.395	22.506	23.331	22.097	22.758	22.980
U8	13:30:00	25.912	25.745	23.875	23.747	22.347	22.979	23.266	22.631	23.394	22.473	23.298	22.096	22.757	22.979
U8	13:45:00	25.878	25.745	23.875	23.746	22.347	22.979	23.266	22.631	23.393	22.473	23.297	22.096	22.757	22.979
U8	14:00:00	25.878	25.744	23.875	23.778	22.347	22.979	23.265	22.662	23.393	22.473	23.298	22.127	22.757	22.979
U8	14:15:00	26.769	26.667	25.657	25.657	23.245	23.855	24.178	23.565	24.276	23.373	24.081	22.895	23.437	23.662

Table F.25 continued

VIBRATING WIRE CALCULATED STRAIN INCREMENTS

VLW 2 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 1	VW STRN MICRO STRAIN 2	VW STRN MICRO STRAIN 31	VW STRN MICRO STRAIN 32	VW STRN MICRO STRAIN 33	VW STRN MICRO STRAIN 34	VW STRN MICRO STRAIN 19	VW STRN MICRO STRAIN 20	VW STRN MICRO STRAIN 9	VW STRN MICRO STRAIN 10	VW STRN MICRO STRAIN 11	VW STRN MICRO STRAIN 12	VW STRN MICRO STRAIN 39	VW STRN MICRO STRAIN 40
L0	10:18:04	0.3	-0.1	0.3	0.1	0.3	0.4	0.3	0.2	-0.3	0.5	0.2	0.1	0.2	-0.0
L0	10:19:02	0.3	-0.1	0.3	0.1	0.4	0.3	0.3	0.2	-0.3	0.5	0.2	0.1	0.1	0.0
L0	10:20:03	0.3	-0.1	0.3	0.1	0.4	0.4	0.3	0.2	-0.5	0.4	0.2	0.1	0.2	0.0
L0	10:59:38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
L1	11:07:16	0.3	-0.0	0.0	0.0	0.0	0.1	0.1	0.0	-0.0	0.3	-0.0	0.5	0.7	1.3
L1	11:07:47	0.2	-0.1	0.0	-0.1	0.1	0.0	0.1	0.0	-0.2	0.2	0.0	0.5	0.7	1.2
L1	11:08:45	0.2	-0.1	-0.0	-0.1	0.1	0.0	0.1	0.0	0.1	0.3	0.1	0.5	0.7	1.3
L1	11:10:45	0.2	-0.1	0.0	-0.1	0.1	0.0	0.1	-0.0	-0.1	0.4	0.2	0.6	0.6	1.3
L2	11:12:19	0.3	0.0	0.3	0.1	0.6	0.5	0.6	0.2	-0.2	1.4	0.3	1.9	1.1	4.3
L2	11:12:51	0.3	-0.1	0.2	0.0	0.6	0.4	0.6	0.2	0.3	1.5	0.4	1.9	1.0	4.4
L2	11:13:51	0.2	0.0	0.1	0.0	0.5	0.5	0.6	0.2	0.0	1.5	0.4	1.9	1.1	4.4
L2	11:15:51	0.2	-0.2	0.1	-0.0	0.6	0.5	0.6	0.2	-0.1	1.6	0.5	1.9	1.1	4.5
L3	11:17:23	0.3	-0.2	0.7	0.2	1.6	1.8	1.2	1.4	1.4	3.3	1.3	6.2	2.0	10.0
L3	11:17:53	0.3	0.0	0.8	0.3	1.6	1.8	1.0	1.5	1.4	3.4	1.4	6.2	1.9	10.1
L3	11:18:51	0.2	-0.1	0.7	0.2	1.7	1.8	1.1	1.5	1.5	3.5	1.4	6.3	2.1	10.1
L3	11:20:53	0.2	-0.1	0.8	0.1	1.6	1.8	1.1	1.5	1.5	3.5	1.5	6.3	2.1	10.1
L4	11:22:16	0.4	-0.2	1.5	0.5	3.2	2.3	4.1	3.9	4.2	6.6	5.7	10.9	8.0	16.2
L4	11:22:46	0.4	-0.1	1.5	0.5	3.4	2.6	4.2	4.0	4.2	6.6	5.7	10.8	8.1	16.2
L4	11:23:45	0.3	0.1	1.4	0.5	3.3	2.7	4.0	4.0	4.3	6.7	5.7	10.9	8.2	16.1
L4	11:25:45	0.3	-0.1	1.5	0.5	2.3	2.3	4.1	4.0	4.2	6.7	5.7	10.8	8.1	16.1
L5	11:27:12	0.5	-0.1	1.9	0.9	4.4	4.4	6.3	6.2	7.5	9.7	10.8	15.4	13.7	22.2
L5	11:27:47	0.4	-0.1	1.9	0.9	4.3	4.4	6.3	6.2	7.5	9.7	10.7	15.4	13.7	22.2
L5	11:28:45	0.4	-0.1	1.9	0.9	4.5	4.4	6.3	6.2	7.4	9.8	10.8	15.3	13.8	22.3
L5	11:30:43	0.4	0.0	1.9	0.8	4.5	4.5	6.3	6.3	7.3	9.8	10.8	15.5	13.7	22.3
L6	11:32:18	0.5	-0.1	2.4	1.4	6.2	5.5	9.1	9.4	11.3	13.3	16.4	19.9	19.8	28.4
L6	11:32:49	0.4	-0.1	2.3	1.4	6.1	5.5	9.1	9.4	11.4	13.3	16.4	20.0	19.8	28.4
L6	11:33:48	0.4	-0.1	2.4	1.4	6.1	5.5	9.2	9.4	11.5	13.3	16.3	20.0	19.8	28.4
L6	11:35:44	0.5	-0.1	2.2	1.3	6.3	5.6	9.2	9.5	11.6	13.4	16.5	19.9	19.7	28.4
L7	11:37:12	0.5	-0.0	2.8	1.7	8.6	6.8	11.1	11.8	16.8	16.9	20.4	25.4	26.2	34.7
L7	11:37:45	0.5	-0.1	2.8	1.7	8.6	6.8	11.2	11.9	17.0	17.1	20.4	25.3	26.3	34.7
L7	11:38:38	0.5	-0.0	2.8	1.7	8.7	6.7	11.2	11.9	17.0	17.2	20.5	25.3	26.3	34.8
L7	11:40:38	0.6	0.1	2.9	1.8	8.8	6.7	11.4	12.0	17.2	17.3	20.5	25.5	26.4	34.8
L8	11:42:50	0.5	-0.1	3.2	2.0	7.4	7.7	14.1	14.6	20.3	21.3	25.9	29.5	32.2	41.1
L8	11:43:23	0.5	-0.1	3.1	1.9	7.4	7.9	14.2	14.8	20.5	21.5	25.9	29.5	32.3	41.2
L8	11:44:22	0.5	-0.1	3.1	2.0	7.5	7.9	14.3	14.8	20.7	21.5	25.9	29.5	32.2	41.2
L8	11:46:20	0.5	-0.1	3.2	2.0	7.6	8.0	14.4	14.9	20.9	21.5	26.0	29.6	32.2	41.2
L9	11:48:06	0.5	-0.1	3.3	2.1	8.6	8.6	16.7	15.8	20.9	23.3	28.1	32.5	33.4	44.1
L9	11:48:43	0.5	-0.1	3.3	2.1	8.6	8.7	16.8	15.9	21.2	23.6	28.3	32.6	33.4	44.0
L9	11:49:40	0.4	0.0	3.3	2.1	8.6	8.7	16.9	16.0	21.3	23.6	28.3	32.7	33.4	44.2
L9	11:51:37	0.4	0.0	3.3	2.1	8.6	8.8	16.9	16.1	21.4	23.6	28.2	32.6	33.3	44.1
L10	11:53:00	0.4	0.1	3.4	2.2	9.1	8.8	17.2	17.7	23.8	25.3	30.9	34.9	38.0	47.3
L10	11:53:32	0.5	-0.1	3.4	2.2	9.1	8.8	17.2	17.8	23.9	25.5	30.8	34.9	38.0	47.3
L10	11:54:35	0.5	-0.0	3.4	2.2	9.1	8.8	17.4	18.0	24.0	25.6	30.6	35.0	37.9	47.3

Table F.25 continued

VIBRATING WIRE CALCULATED STRAIN INCREMENTS

VLW 2 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 1	VW STRN MICRO STRAIN 2	VW STRN MICRO STRAIN 31	VW STRN MICRO STRAIN 32	VW STRN MICRO STRAIN 33	VW STRN MICRO STRAIN 34	VW STRN MICRO STRAIN 19	VW STRN MICRO STRAIN 20	VW STRN MICRO STRAIN 9	VW STRN MICRO STRAIN 10	VW STRN MICRO STRAIN 11	VW STRN MICRO STRAIN 12	VW STRN MICRO STRAIN 39	VW STRN MICRO STRAIN 40
L10	11:56:32	0.4	-0.1	3.4	2.2	9.1	8.6	17.4	18.1	24.1	25.7	30.8	34.9	37.8	47.3
L11	11:58:12	0.5	-0.1	3.5	2.2	9.9	8.2	18.6	18.9	25.3	27.6	33.2	38.0	40.6	50.3
L11	11:58:44	0.5	0.0	3.5	2.2	9.8	8.2	18.7	18.9	25.4	27.7	33.2	38.0	40.5	50.3
L11	11:59:44	0.5	-0.1	3.5	2.3	9.8	8.2	18.7	18.9	25.6	27.8	33.2	38.0	40.6	50.3
L11	12:01:41	0.4	-0.1	3.5	2.2	9.9	8.4	19.0	18.8	25.8	27.9	33.2	38.0	40.5	50.2
L12	12:03:38	0.4	-0.1	3.6	2.3	10.5	9.9	20.9	20.2	28.1	29.1	35.5	39.9	43.7	53.6
L12	12:04:11	0.4	0.1	3.5	2.3	10.5	9.9	21.1	20.3	28.1	29.3	35.5	40.1	43.6	53.6
L12	12:05:12	0.5	-0.1	3.5	2.3	10.5	9.9	21.1	20.3	28.1	29.5	35.4	40.0	43.6	53.7
L12	12:07:08	0.5	-0.1	3.5	2.4	10.6	10.1	21.1	20.4	28.1	29.6	35.3	40.0	43.7	53.6
L13	12:08:41	0.5	-0.1	3.6	2.3	10.8	10.5	21.5	21.5	29.9	31.6	37.9	41.7	46.2	56.1
L13	12:09:13	0.4	-0.1	3.6	2.3	10.8	10.6	21.7	21.6	30.0	31.7	37.9	41.8	46.5	56.2
L13	12:10:08	0.4	-0.0	3.7	2.3	10.8	10.6	21.7	21.6	30.1	31.9	37.9	41.7	46.2	56.2
L13	12:12:13	0.4	-0.1	3.6	2.3	10.8	10.5	21.7	21.7	30.2	32.0	38.0	41.7	46.2	56.1
L14	12:13:38	0.4	0.0	3.8	2.3	11.1	10.8	23.4	22.1	33.3	33.8	40.7	44.4	50.0	59.3
L14	12:14:09	0.4	-0.1	3.8	2.3	10.9	10.9	23.5	22.3	33.3	33.8	40.5	44.2	49.6	59.3
L14	12:15:08	0.5	-0.1	3.8	2.4	11.1	10.9	23.7	22.2	33.2	33.9	40.5	44.5	49.9	59.2
L14	12:17:10	0.4	-0.1	3.7	2.3	11.0	10.9	23.7	23.8	33.2	34.0	40.8	44.4	49.8	59.3
L15	12:18:31	0.4	-0.1	3.9	2.3	11.4	11.5	25.2	24.6	34.4	35.8	42.9	47.0	51.6	62.1
L15	12:19:04	0.4	-0.1	3.8	2.4	11.4	11.5	25.2	24.7	34.5	35.9	43.1	47.0	51.6	62.1
L15	12:20:03	0.5	0.1	3.9	2.2	11.3	11.5	25.1	24.9	34.6	36.0	43.1	47.1	51.8	62.2
L15	12:22:04	0.5	-0.0	3.8	2.2	10.9	11.7	25.4	25.0	34.8	36.2	43.1	47.1	51.7	62.1
L16	12:23:53	0.4	-0.1	4.0	2.3	11.3	12.7	26.3	26.1	37.8	38.6	45.5	49.7	55.3	64.7
L16	12:24:24	0.5	-0.0	3.8	2.3	11.2	12.9	26.4	26.3	37.8	38.7	45.6	49.7	55.1	64.8
L16	12:25:34	0.4	-0.0	4.0	2.1	11.1	13.0	26.4	26.4	38.0	38.8	45.6	49.9	55.2	64.8
L16	12:27:24	0.4	0.1	4.1	2.0	10.8	13.1	26.5	26.5	38.1	39.0	45.5	49.9	55.0	64.6
L17	12:28:50	0.5	-0.2	3.6	2.0	10.9	13.0	28.6	28.1	39.0	40.5	47.8	51.7	57.3	67.1
L17	12:29:26	0.4	-0.0	3.9	1.9	10.9	13.2	28.8	28.2	39.2	40.6	47.8	51.3	57.2	67.0
L17	12:30:20	0.4	-0.0	3.8	2.0	10.9	13.0	28.7	28.2	39.4	40.7	47.6	50.9	57.0	66.8
L17	12:32:18	0.3	-0.2	4.0	1.9	10.9	13.2	28.7	28.0	38.9	40.4	46.7	49.8	55.6	65.8
L17A	12:34:02	0.4	-0.1	4.0	1.7	11.0	13.7	27.9	27.9	38.9	39.6	46.2	48.8	55.1	63.7
U1	12:38:06	0.4	0.0	3.8	1.6	10.1	13.4	26.2	26.5	37.4	36.1	42.8	45.6	50.7	59.3
U2	12:42:41	0.4	0.1	4.0	1.4	9.3	12.9	25.3	25.6	34.9	34.7	41.0	43.4	47.9	55.5
U3	12:47:06	0.4	0.0	3.5	0.9	7.0	10.9	22.2	22.2	33.2	31.8	39.4	37.8	45.4	47.1
U4	12:51:07	0.3	0.0	3.0	0.4	6.3	8.8	18.4	19.2	26.8	26.6	33.2	28.9	38.4	37.3
U5	12:55:06	0.1	-0.1	2.2	0.1	5.4	8.3	14.0	15.0	20.3	21.0	24.3	21.0	27.4	26.7
U6	12:59:07	0.3	0.1	1.8	-0.1	2.0	6.6	10.0	10.5	14.7	13.8	14.1	12.5	15.5	15.6
U7	13:02:50	0.1	-0.0	0.8	-0.3	1.4	4.3	3.9	4.0	3.5	3.4	-1.7	-1.8	-2.3	-1.2
U7A	13:05:50	0.0	0.1	0.8	-0.3	1.2	4.2	4.0	3.9	3.1	3.0	-1.8	-1.9	-2.4	-1.2
U8	13:15:00	0.0	-0.1	0.5	-0.3	1.0	4.3	4.0	3.8	3.2	2.9	-1.6	-1.8	-2.2	-0.9
U8	13:30:00	-0.1	0.1	0.4	-0.3	0.8	4.2	4.0	3.8	3.3	3.3	-1.1	-1.9	-2.4	-0.3
U8	13:45:00	-0.0	-0.0	0.4	-0.3	0.8	4.2	4.0	3.8	3.5	3.6	-0.7	-1.6	-1.2	0.1
U8	14:00:00	-0.0	-0.0	0.3	-0.3	0.8	4.1	4.0	3.8	3.6	3.7	-0.5	-1.2	-0.4	0.4
U8	14:15:00	-1.3	-1.2	-2.1	-2.8	-0.3	3.0	2.8	2.7	2.7	2.7	-1.1	-1.8	-0.6	-0.2

Table F.25 continued

VIBRATING WIRE CALCULATED STRAIN (4 MINUTE READINGS)

VLW 2 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 1	VW STRN MICRO STRAIN 2	VW STRN MICRO STRAIN 31	VW STRN MICRO STRAIN 32	VW STRN MICRO STRAIN 33	VW STRN MICRO STRAIN 34	VW STRN MICRO STRAIN 19	VW STRN MICRO STRAIN 20	VW STRN MICRO STRAIN 9	VW STRN MICRO STRAIN 10	VW STRN MICRO STRAIN 11	VW STRN MICRO STRAIN 12	VW STRN MICRO STRAIN 39	VW STRN MICRO STRAIN 40
L0	10:59:38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
L1	11:10:45	0.2	-0.1	0.0	-0.1	0.1	0.0	0.1	-0.0	-0.1	0.4	0.2	0.6	0.6	1.3
L2	11:15:51	0.2	-0.2	0.1	-0.0	0.6	0.5	0.6	0.2	-0.1	1.6	0.5	1.9	1.1	4.5
L3	11:20:53	0.2	-0.1	0.8	0.1	1.6	1.8	1.1	1.5	1.5	3.5	1.5	6.3	2.1	10.1
L4	11:25:45	0.3	-0.1	1.5	0.5	2.3	2.3	4.1	4.0	4.2	6.7	5.7	10.8	8.1	16.1
L5	11:30:43	0.4	0.0	1.9	0.8	4.5	4.5	6.3	6.3	7.3	9.8	10.8	15.5	13.7	22.3
L6	11:35:44	0.5	-0.1	2.2	1.3	6.3	5.6	9.2	9.5	11.6	13.4	16.5	19.9	19.7	28.4
L7	11:40:38	0.6	0.1	2.9	1.8	8.8	6.7	11.4	12.0	17.2	17.3	20.5	25.5	26.4	34.8
L8	11:46:20	0.5	-0.1	3.2	2.0	7.6	8.0	14.4	14.9	20.9	21.5	26.0	29.6	32.2	41.2
L9	11:51:37	0.4	0.0	3.3	2.1	8.6	8.8	16.9	16.1	21.4	23.6	28.2	32.6	33.3	44.1
L10	11:56:32	0.4	-0.1	3.4	2.2	9.1	8.6	17.4	18.1	24.1	25.7	30.8	34.9	37.8	47.3
L11	12:01:41	0.4	-0.1	3.5	2.2	9.9	8.4	19.0	18.8	25.8	27.9	33.2	38.0	40.5	50.2
L12	12:07:08	0.5	-0.1	3.5	2.4	10.6	10.1	21.1	20.4	28.1	29.6	35.3	40.0	43.7	53.6
L13	12:12:13	0.4	-0.1	3.6	2.3	10.8	10.5	21.7	21.7	30.2	32.0	38.0	41.7	46.2	56.1
L14	12:17:10	0.4	-0.1	3.7	2.3	11.0	10.9	23.7	23.8	33.2	34.0	40.8	44.4	49.8	59.3
L15	12:22:04	0.5	-0.0	3.8	2.2	10.9	11.7	25.4	25.0	34.8	36.2	43.1	47.1	51.7	62.1
L16	12:27:24	0.4	0.1	4.1	2.0	10.8	13.1	26.5	26.5	38.1	39.0	45.5	49.9	55.0	64.6
L17	12:32:18	0.3	-0.2	4.0	1.9	10.9	13.2	28.7	28.0	38.9	40.4	46.7	49.8	55.6	65.8
L17A	12:34:02	0.4	-0.1	4.0	1.7	11.0	13.7	27.9	27.9	38.9	39.6	46.2	48.8	55.1	63.7
U1	12:38:06	0.4	0.0	3.8	1.6	10.1	13.4	26.2	26.5	37.4	36.1	42.8	45.6	50.7	59.3
U2	12:42:41	0.4	0.1	4.0	1.4	9.3	12.9	25.3	25.6	34.9	34.7	41.0	43.4	47.9	55.5
U3	12:47:06	0.4	0.0	3.5	0.9	7.0	10.9	22.2	22.2	33.2	31.8	39.4	37.8	45.4	47.1
U4	12:51:07	0.3	0.0	3.0	0.4	6.3	8.8	18.4	19.2	26.8	26.6	33.2	28.9	38.4	37.3
U5	12:55:06	0.1	-0.1	2.2	0.1	5.4	8.3	14.0	15.0	20.3	21.0	24.3	21.0	27.4	26.7
U6	12:59:07	0.3	0.1	1.8	-0.1	2.0	6.6	10.0	10.5	14.7	13.8	14.1	12.5	15.5	15.6
U7	13:02:50	0.1	-0.0	0.8	-0.3	1.4	4.3	3.9	4.0	3.5	3.4	-1.7	-1.8	-2.3	-1.2
U7A	13:05:50	0.0	0.1	0.8	-0.3	1.2	4.2	4.0	3.9	3.1	3.0	-1.8	-1.9	-2.4	-1.2

Table F.25 continued

AVERAGE STRAIN AT EACH GAGE LEVEL, INTEGRATED PILE COMPRESSION & COMPARISON WITH TELLTALE MEASUREMENT (4 MINUTE READINGS)

VLW 2 LOAD NUMBER	AVG VW MICRO STRAIN SURFACE	AVG VW MICRO STRAIN 1+2	AVG VW MICRO STRAIN 31+32	AVG VW MICRO STRAIN 33+34	AVG VW MICRO STRAIN 19+20	AVG VW MICRO STRAIN 9+10	AVG VW MICRO STRAIN 11+12	AVG VW MICRO STRAIN 39+40	EST'D. MICRO STRAIN CELL TOP	PILE COMPRESSION SG MSMT. INCHES	TT MSMT. INCHES	ABS.DIFF. SG-TT INCHES
L0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0000	0.0000	0.0000
L1	0.0	0.1	-0.0	0.0	0.0	0.1	0.4	0.9	5.6	0.0001	0.0000	0.0000
L2	0.0	0.0	0.0	0.5	0.4	0.7	1.2	2.8	11.8	0.0003	0.0001	0.0002
L3	0.0	0.1	0.5	1.7	1.3	2.5	3.9	6.1	17.9	0.0011	0.0007	0.0003
L4	0.0	0.1	1.0	2.3	4.0	5.5	8.3	12.1	24.0	0.0022	0.0018	0.0004
L5	0.0	0.2	1.4	4.5	6.3	8.5	13.2	18.0	29.9	0.0035	0.0029	0.0006
L6	0.0	0.2	1.8	5.9	9.3	12.5	18.2	24.0	35.9	0.0048	0.0039	0.0009
L7	0.0	0.3	2.3	7.7	11.7	17.3	23.0	30.6	41.8	0.0063	0.0050	0.0013
L8	0.0	0.2	2.6	7.8	14.7	21.2	27.8	36.7	47.8	0.0074	0.0062	0.0012
L9	0.0	0.2	2.7	8.7	16.5	22.5	30.4	38.7	50.7	0.0080	0.0067	0.0013
L10	0.0	0.2	2.8	8.9	17.8	24.9	32.8	42.6	53.7	0.0086	0.0073	0.0014
L11	0.0	0.2	2.8	9.2	18.9	26.9	35.6	45.4	56.7	0.0092	0.0078	0.0015
L12	0.0	0.2	2.9	10.4	20.8	28.8	37.7	48.6	59.7	0.0100	0.0085	0.0015
L13	0.0	0.2	2.9	10.7	21.7	31.1	39.9	51.1	62.5	0.0105	0.0087	0.0018
L14	0.0	0.1	3.0	10.9	23.7	33.6	42.6	54.5	65.5	0.0112	0.0097	0.0014
L15	0.0	0.2	3.0	11.3	25.2	35.5	45.1	56.9	68.5	0.0118	0.0101	0.0017
L16	0.0	0.2	3.1	12.0	26.5	38.6	47.7	59.8	71.5	0.0125	0.0106	0.0019
L17	0.0	0.1	3.0	12.1	28.4	39.7	48.2	60.7	74.4	0.0129	0.0113	0.0016
L17A	0.0	0.2	2.9	12.3	27.9	39.2	47.5	59.4	74.4	0.0127	0.0113	0.0015
U1	0.0	0.2	2.7	11.7	26.3	36.8	44.2	55.0	66.9	0.0120	0.0108	0.0012
U2	0.0	0.2	2.7	11.1	25.5	34.8	42.2	51.7	56.2	0.0114	0.0105	0.0009
U3	0.0	0.2	2.2	9.0	22.2	32.5	38.6	46.3	46.2	0.0101	0.0096	0.0006
U4	0.0	0.1	1.7	7.5	18.8	26.7	31.0	37.9	36.4	0.0083	0.0079	0.0005
U5	0.0	-0.0	1.1	6.8	14.5	20.6	22.6	27.1	26.4	0.0064	0.0061	0.0004
U6	0.0	0.2	0.8	4.3	10.2	14.2	13.3	15.5	15.3	0.0043	0.0039	0.0004
U7	0.0	0.0	0.2	2.9	4.0	3.5	-1.8	-1.7	0.0	0.0011	0.0014	-0.0003
U7A	0.0	0.1	0.2	2.7	4.0	3.0	-1.9	-1.8	0.0	0.0010	0.0013	-0.0003
ELEV. FT	4.57	-1.06	-11.81	-27.81	-35.81	-44.81	-52.81	-54.31	-54.81			

Table F.25 continued

VIBRATING WIRE CALCULATED AVERAGE LOADS (4 MINUTE READINGS)

LA = 1.50 ft ACA = 317.115 si
LB = 0.50 ft ACB = 313.155 si
B = 18.00 in ASA = 3.538 si
ES = 27500.0 ksi ASB = 7.498 si

VLW 2 LOAD NUMBER	AVG VW LOAD TONS SURFACE	AVG VW LOAD TONS 1+2	AVG VW LOAD TONS 31+32	AVG VW LOAD TONS 33+34	AVG VW LOAD TONS 19+20	AVG VW LOAD TONS 9+10	AVG VW LOAD TONS 11+12	AVG VW LOAD TONS 39+40	OSTERBERG LOAD TONS BOTTOM	INCR. PILE MODULUS KSI	CALC. PILE A MODULUS KSI	CALC. PILE B MODULUS KSI
L0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0		5141.2	5416.9
L1	0.0	0.04	-0.04	0.04	0.04	0.10	0.32	0.81	4.9	32840.3	5141.2	5416.9
L2	0.0	0.01	0.02	0.45	0.33	0.62	1.06	2.45	10.4	18056.3	5141.2	5416.9
L3	0.0	0.06	0.39	1.44	1.06	2.08	3.43	5.35	15.7	9915.2	5141.2	5416.9
L4	0.0	0.06	0.79	1.92	3.37	4.57	7.27	10.62	21.0	5492.2	5141.2	5416.9
L5	0.0	0.18	1.13	3.72	5.24	7.11	11.55	15.81	26.2	5450.9	5141.2	5416.9
L6	0.0	0.17	1.49	4.93	7.78	10.42	15.96	21.07	31.5	5450.8	5141.2	5416.9
L7	0.0	0.26	1.96	6.45	9.77	14.38	20.20	26.82	36.7	4881.8	5141.2	5416.9
L8	0.0	0.15	2.18	6.50	12.23	17.66	24.43	32.22	42.0	5269.0	5141.2	5416.9
L9	0.0	0.18	2.25	7.27	13.70	18.77	26.67	33.95	44.5	7942.1	5141.2	5416.9
L10	0.0	0.14	2.31	7.38	14.80	20.77	28.82	37.34	47.1	4179.0	5141.2	5416.9
L11	0.0	0.16	2.36	7.64	15.72	22.37	31.28	39.82	49.7	5708.2	5141.2	5416.9
L12	0.0	0.17	2.45	8.63	17.30	24.00	33.05	42.68	52.3	4953.0	5141.2	5416.9
L13	0.0	0.14	2.45	8.87	18.08	25.90	34.97	44.87	54.9	6218.3	5141.2	5416.9
L14	0.0	0.10	2.48	9.11	19.77	27.98	37.39	47.87	57.5	4727.8	5141.2	5416.9
L15	0.0	0.19	2.51	9.43	20.97	29.55	39.58	49.96	60.1	6762.2	5141.2	5416.9
L16	0.0	0.17	2.55	9.96	22.04	32.12	41.85	52.49	62.7	5585.3	5141.2	5416.9
L17	0.0	0.08	2.46	10.05	23.63	33.04	42.32	53.28	65.3	17600.8	5141.2	5416.9
L17A	0.0	0.16	2.38	10.27	23.23	32.67	41.69	52.09	65.3		5141.2	5416.9
U1	0.0	0.19	2.24	9.78	21.94	30.63	38.82	48.29	58.7		5141.2	5416.9
U2	0.0	0.18	2.27	9.27	21.22	29.00	37.04	45.38	49.3		5141.2	5416.9
U3	0.0	0.16	1.84	7.47	18.48	27.06	33.87	40.61	40.5		5141.2	5416.9
U4	0.0	0.12	1.43	6.25	15.68	22.24	27.24	33.23	32.0		5141.2	5416.9
U5	0.0	-0.00	0.96	5.69	12.11	17.17	19.85	23.74	23.2		5141.2	5416.9
U6	0.0	0.13	0.68	3.61	8.52	11.84	11.66	13.64	13.4		5141.2	5416.9
U7	0.0	0.01	0.19	2.39	3.30	2.88	-1.54	-1.53	0.0		5141.2	5416.9
U7A	0.0	0.05	0.20	2.25	3.30	2.54	-1.65	-1.59	0.0		5141.2	5416.9

ELEV. FT	4.57	-1.06	-11.81	-27.81	-35.81	-44.81	-52.81	-54.31	-54.81	4946.1 KSI = CONCRETE MODULUS

Table F.25 continued

INTEGRATED MOVEMENT AT VW STRAIN GAGE (4 MINUTE READINGS)

VLW 2 LOAD NUMBER	VW MOVEMENT INCHES SURFACE	VW MOVEMENT INCHES 1+2	VW MOVEMENT INCHES 31+32	VW MOVEMENT INCHES 33+34	VW MOVEMENT INCHES 19+20	VW MOVEMENT INCHES 9+10	VW MOVEMENT INCHES 11+12	VW MOVEMENT INCHES 39+40	VW MOVEMENT INCHES CELL TOP
L0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L1	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000	0.0000	0.0000	0.0000
L2	-0.0002	-0.0002	-0.0002	-0.0002	-0.0001	-0.0001	0.0000	0.0001	0.0001
L3	-0.0003	-0.0003	-0.0003	-0.0001	0.0001	0.0003	0.0006	0.0007	0.0007
L4	0.0046	0.0046	0.0047	0.0050	0.0053	0.0058	0.0065	0.0067	0.0068
L5	0.0094	0.0095	0.0096	0.0101	0.0106	0.0114	0.0125	0.0128	0.0129
L6	0.0141	0.0141	0.0142	0.0150	0.0157	0.0169	0.0183	0.0187	0.0189
L7	0.0187	0.0187	0.0189	0.0199	0.0208	0.0224	0.0243	0.0248	0.0250
L8	0.0288	0.0288	0.0289	0.0299	0.0310	0.0330	0.0353	0.0359	0.0362
L9	0.0337	0.0337	0.0339	0.0350	0.0362	0.0383	0.0408	0.0414	0.0417
L10	0.0436	0.0436	0.0438	0.0449	0.0462	0.0485	0.0513	0.0520	0.0522
L11	0.0535	0.0536	0.0537	0.0549	0.0562	0.0587	0.0617	0.0624	0.0627
L12	0.0635	0.0635	0.0637	0.0650	0.0665	0.0692	0.0723	0.0731	0.0734
L13	0.0732	0.0732	0.0734	0.0747	0.0763	0.0791	0.0825	0.0834	0.0837
L14	0.0886	0.0886	0.0888	0.0901	0.0918	0.0949	0.0985	0.0994	0.0998
L15	0.1133	0.1133	0.1135	0.1149	0.1166	0.1199	0.1238	0.1247	0.1251
L16	0.1531	0.1531	0.1533	0.1547	0.1566	0.1601	0.1642	0.1652	0.1656
L17	0.3284	0.3284	0.3286	0.3300	0.3320	0.3356	0.3399	0.3408	0.3412
L17A	0.6235	0.6235	0.6237	0.6252	0.6271	0.6307	0.6349	0.6358	0.6362
U1	0.7288	0.7288	0.7290	0.7304	0.7322	0.7356	0.7395	0.7404	0.7407
U2	0.7341	0.7341	0.7343	0.7356	0.7374	0.7406	0.7443	0.7452	0.7455
U3	0.7294	0.7294	0.7296	0.7306	0.7321	0.7351	0.7385	0.7393	0.7395
U4	0.7245	0.7245	0.7246	0.7255	0.7268	0.7292	0.7320	0.7326	0.7329
U5	0.7146	0.7146	0.7147	0.7154	0.7165	0.7184	0.7204	0.7209	0.7211
U6	0.6946	0.6946	0.6947	0.6952	0.6959	0.6972	0.6985	0.6988	0.6989
U7	0.6553	0.6553	0.6553	0.6556	0.6560	0.6564	0.6564	0.6564	0.6564
U7A	0.6553	0.6553	0.6554	0.6556	0.6560	0.6563	0.6564	0.6564	0.6564

Table F.25 continued

INTEGRATED MOVEMENT AT SEGMENT CL (4 MINUTE READINGS)

VLW 2 LOAD NUMBER CL.ELEV.	AVG VW MOVEMENT INCHES 1.76	AVG VW MOVEMENT INCHES -6.44	AVG VW MOVEMENT INCHES -19.81	AVG VW MOVEMENT INCHES -31.81	AVG VW MOVEMENT INCHES -40.31	AVG VW MOVEMENT INCHES -48.81	AVG VW MOVEMENT INCHES -53.56
L0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L3	0.0000	0.0000	0.0000	0.0000	0.0002	0.0004	0.0006
L4	0.0046	0.0047	0.0049	0.0052	0.0056	0.0062	0.0066
L5	0.0095	0.0095	0.0098	0.0104	0.0110	0.0120	0.0126
L6	0.0141	0.0142	0.0146	0.0153	0.0163	0.0176	0.0185
L7	0.0187	0.0188	0.0194	0.0203	0.0216	0.0233	0.0245
L8	0.0288	0.0289	0.0294	0.0305	0.0320	0.0341	0.0356
L9	0.0337	0.0338	0.0344	0.0356	0.0372	0.0395	0.0411
L10	0.0436	0.0437	0.0444	0.0456	0.0474	0.0499	0.0516
L11	0.0535	0.0536	0.0543	0.0556	0.0575	0.0602	0.0621
L12	0.0635	0.0636	0.0643	0.0657	0.0678	0.0708	0.0727
L13	0.0732	0.0733	0.0741	0.0755	0.0777	0.0808	0.0829
L14	0.0886	0.0887	0.0894	0.0909	0.0933	0.0967	0.0990
L15	0.1133	0.1134	0.1142	0.1157	0.1182	0.1218	0.1242
L16	0.1531	0.1532	0.1540	0.1557	0.1583	0.1622	0.1647
L17	0.3284	0.3285	0.3293	0.3310	0.3338	0.3378	0.3404
L17A	0.6235	0.6236	0.6244	0.6261	0.6289	0.6328	0.6354
U1	0.7288	0.7289	0.7297	0.7313	0.7339	0.7375	0.7399
U2	0.7341	0.7342	0.7350	0.7365	0.7390	0.7425	0.7448
U3	0.7294	0.7295	0.7301	0.7314	0.7336	0.7368	0.7389
U4	0.7245	0.7246	0.7251	0.7261	0.7280	0.7306	0.7323
U5	0.7146	0.7146	0.7151	0.7160	0.7174	0.7194	0.7207
U6	0.6946	0.6947	0.6950	0.6956	0.6966	0.6979	0.6987
U7	0.6553	0.6553	0.6555	0.6558	0.6562	0.6564	0.6564
U7A	0.6553	0.6553	0.6555	0.6558	0.6561	0.6564	0.6564

Table F.25 continued

AVERAGE SEGMENT SHEAR STRESS (4 MINUTE READINGS)

VLW 2 LOAD NUMBER CL.ELEV.	AVG VW SHEAR TSF 1.76	AVG VW SHEAR TSF -6.44	AVG VW SHEAR TSF -19.81	AVG VW SHEAR TSF -31.81	AVG VW SHEAR TSF -40.31	AVG VW SHEAR TSF -48.81	AVG VW SHEAR TSF -53.56
L0	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016
L1	-0.015	-0.018	-0.016	-0.016	-0.015	-0.012	0.038
L2	-0.016	-0.016	-0.012	-0.019	-0.011	-0.007	0.139
L3	-0.015	-0.011	-0.005	-0.024	0.002	0.012	0.197
L4	-0.015	-0.005	-0.005	0.014	0.006	0.040	0.356
L5	-0.011	-0.002	0.011	0.015	0.018	0.076	0.457
L6	-0.011	0.004	0.019	0.043	0.033	0.099	0.551
L7	-0.009	0.010	0.030	0.053	0.069	0.105	0.719
L8	-0.012	0.015	0.029	0.103	0.084	0.125	0.849
L9	-0.011	0.016	0.036	0.118	0.077	0.148	0.792
L10	-0.012	0.017	0.036	0.138	0.094	0.151	0.930
L11	-0.012	0.018	0.039	0.152	0.107	0.169	0.933
L12	-0.011	0.019	0.048	0.164	0.108	0.172	1.053
L13	-0.012	0.019	0.050	0.175	0.128	0.173	1.084
L14	-0.013	0.020	0.053	0.206	0.136	0.180	1.148
L15	-0.011	0.019	0.056	0.224	0.142	0.193	1.136
L16	-0.011	0.020	0.061	0.235	0.170	0.186	1.166
L17	-0.014	0.021	0.063	0.267	0.158	0.177	1.201
L17A	-0.012	0.018	0.066	0.253	0.159	0.171	1.140
U1	-0.011	0.015	0.062	0.237	0.144	0.154	1.037
U2	-0.011	0.016	0.056	0.233	0.128	0.151	0.910
U3	-0.012	0.010	0.042	0.213	0.142	0.125	0.732
U4	-0.013	0.004	0.034	0.180	0.105	0.088	0.649
U5	-0.017	-0.002	0.033	0.117	0.077	0.040	0.416
U6	-0.012	-0.008	0.014	0.086	0.045	-0.020	0.204
U7	-0.016	-0.014	0.006	0.002	-0.024	-0.109	-0.015
U7A	-0.015	-0.014	0.005	0.005	-0.030	-0.104	-0.010

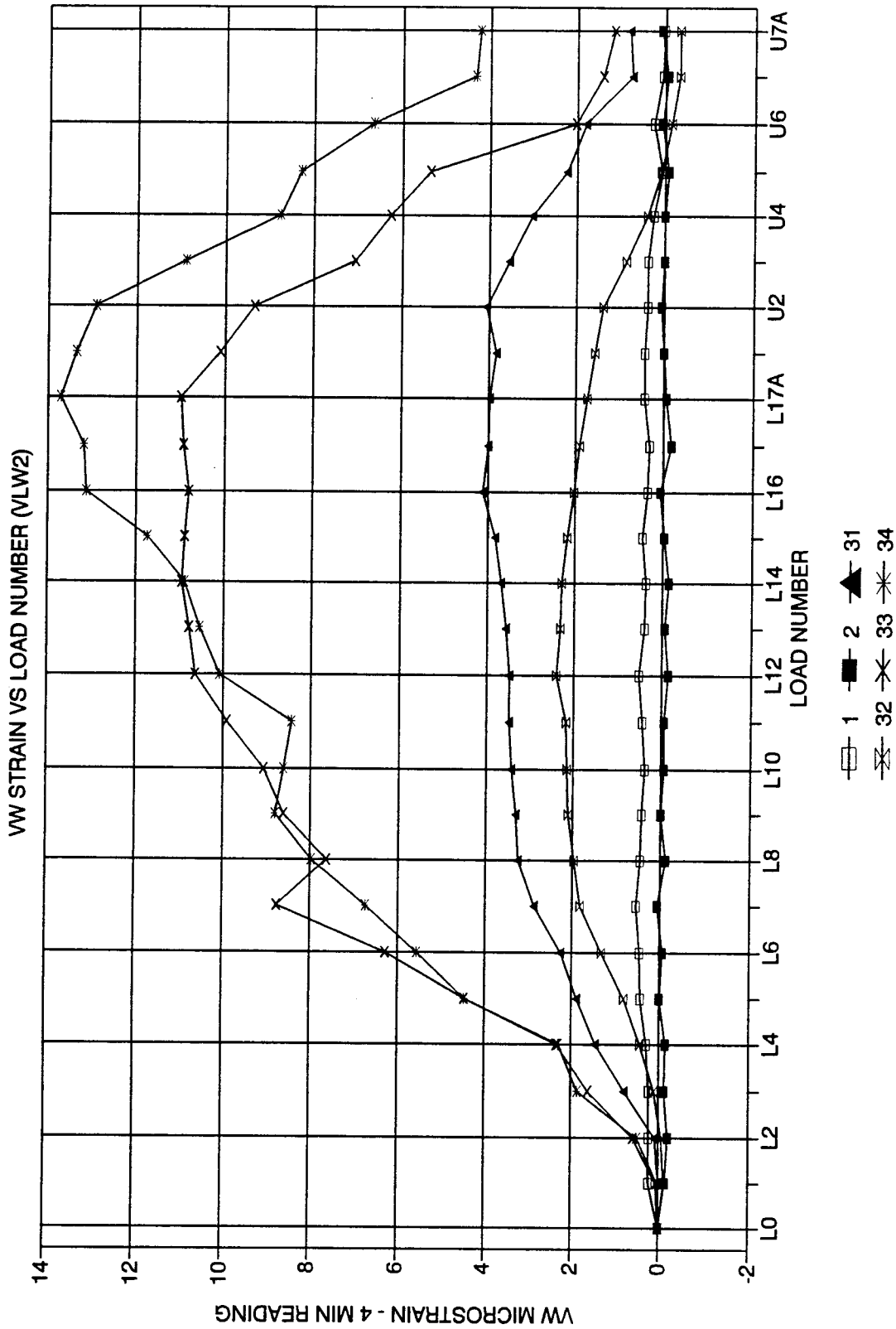

Figure F.131 Strain at Pile Top: Vilano West Load Test 2

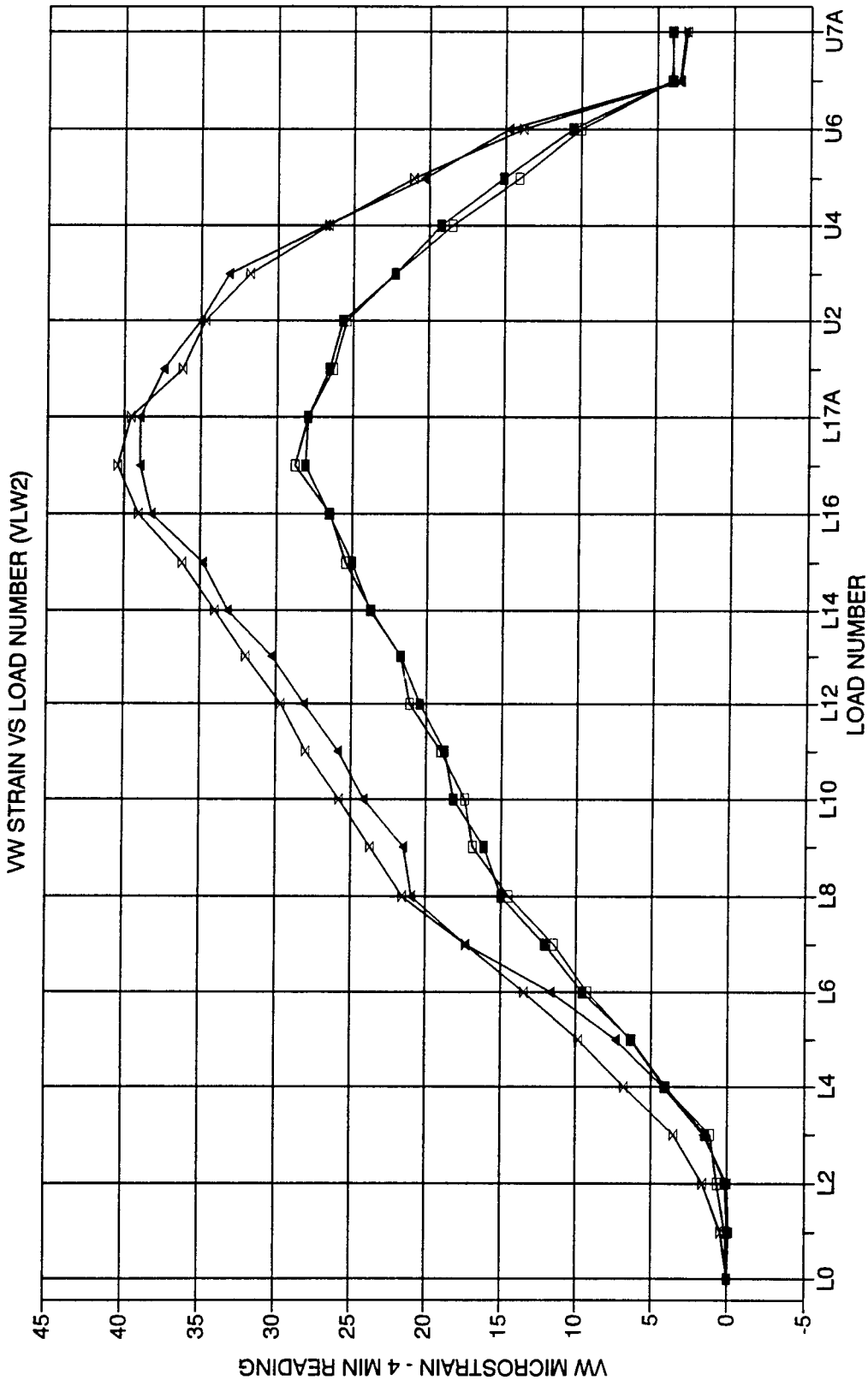

Figure F.132 Strain at Pile Middle: Vilano West Load Test 2

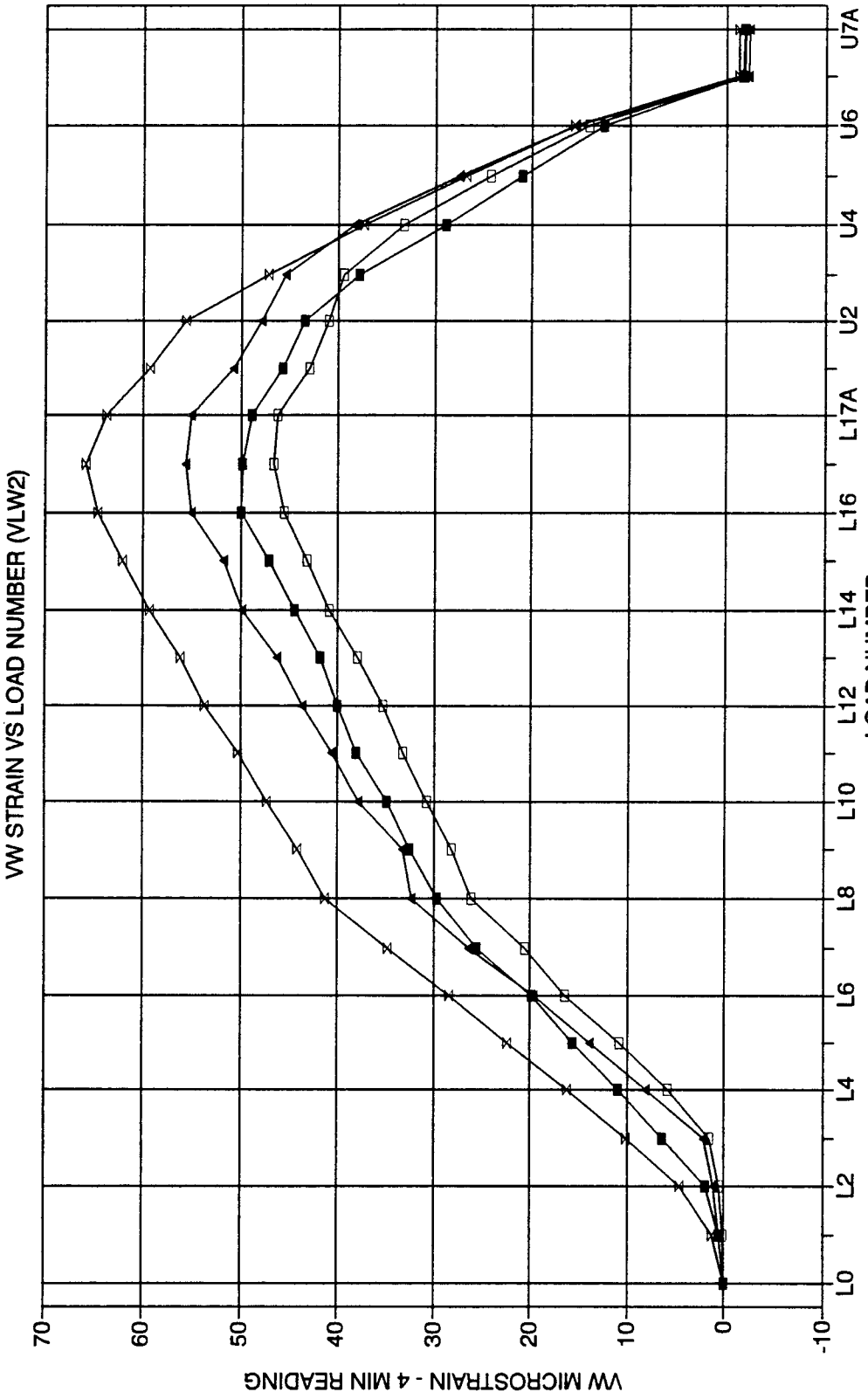

Figure F.133 Strain at Pile Bottom: Vilano West Load Test 2

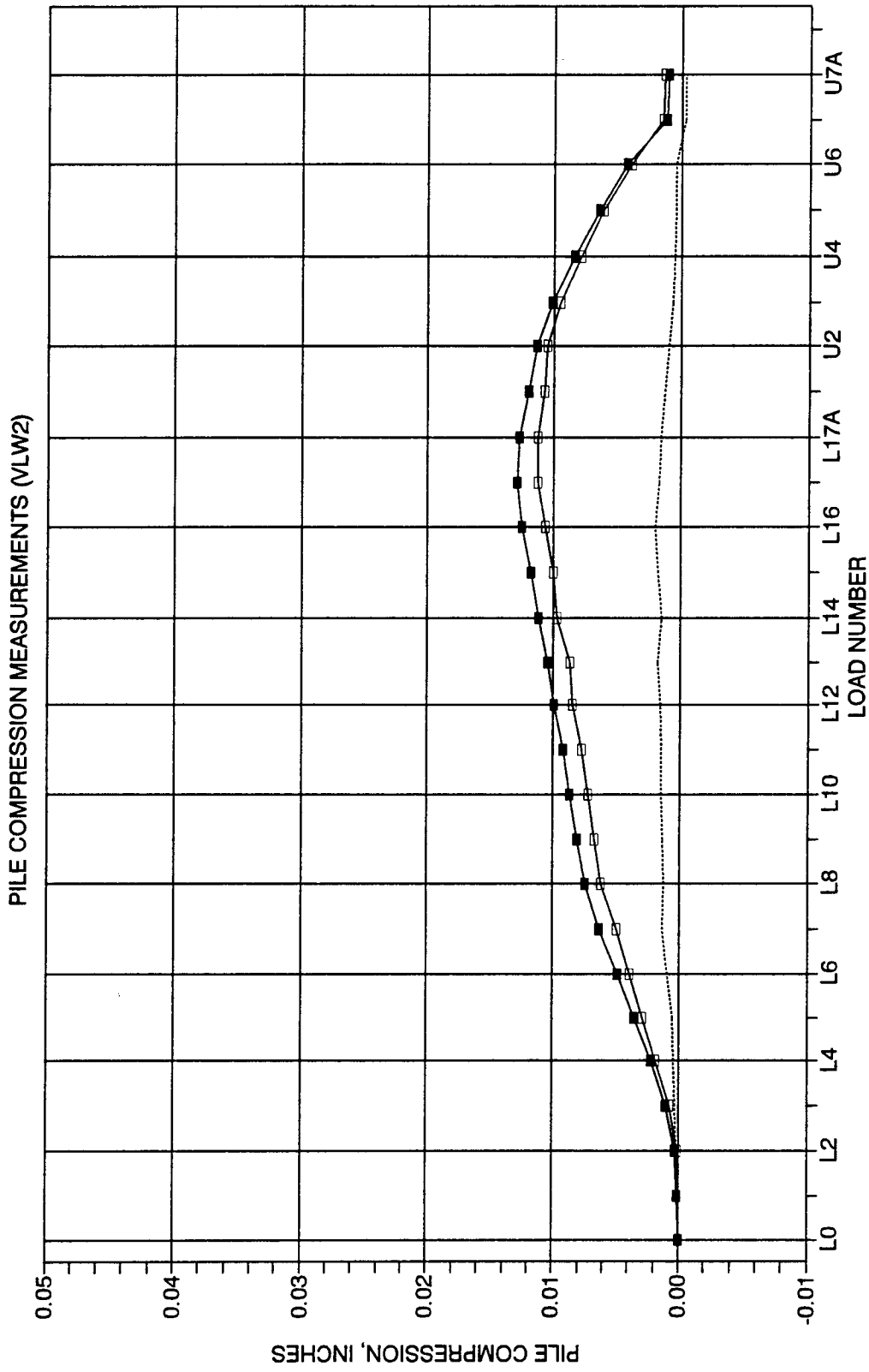

Figure F.134 Pile Compression Measurements: Vilano West Load Test 2

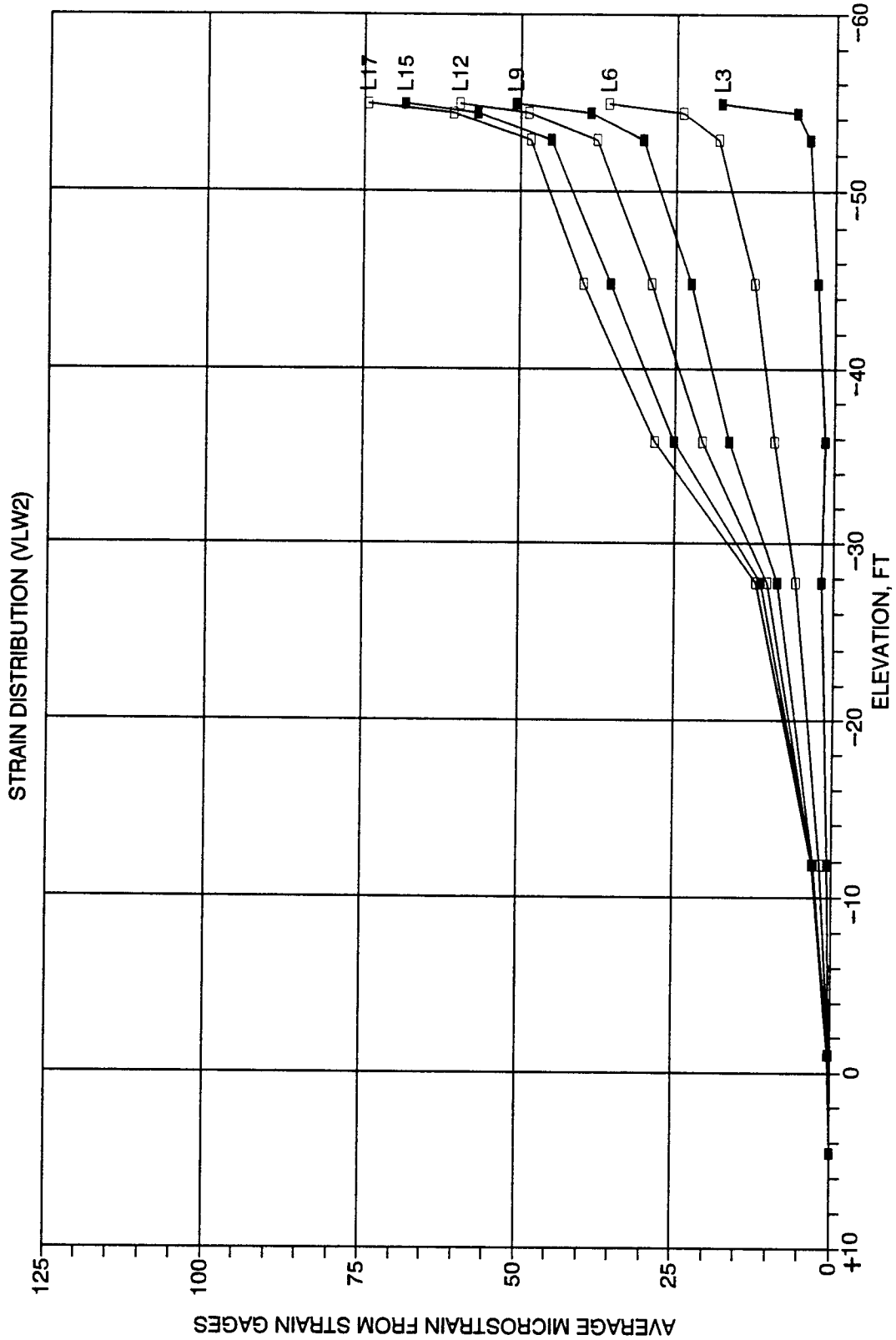

Figure F.135 Pile Strain Distribution: Vilano West Load Test 2

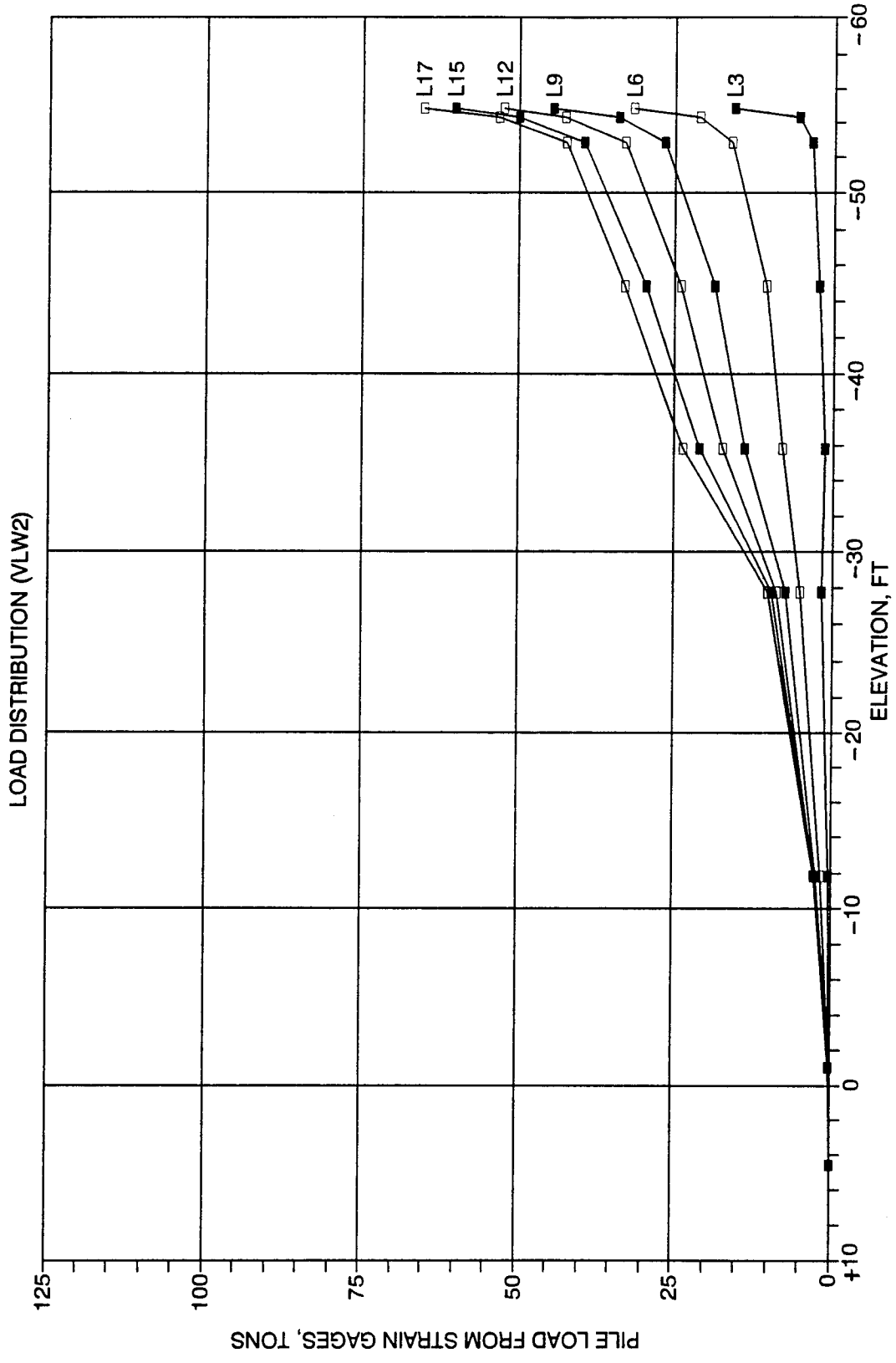

Figure F.136 Pile Load Distribution: Vilano West Load Test 2

Table F.26 Strain Analyses: Vilano West Load Test 3

VIBRATING WIRE INSTRUMENT READINGS - STRAIN

VLW 3 LOAD NUMBER	TIME	VW STRN FREQ^2 KHZ^2 1	VW STRN FREQ^2 KHZ^2 2	VW STRN FREQ^2 KHZ^2 31	VW STRN FREQ^2 KHZ^2 32	VW STRN FREQ^2 KHZ^2 33	VW STRN FREQ^2 KHZ^2 34	VW STRN FREQ^2 KHZ^2 19	VW STRN FREQ^2 KHZ^2 20	VW STRN FREQ^2 KHZ^2 9	VW STRN FREQ KHZ^2 10	VW STRN FREQ KHZ^2 11	VW STRN FREQ KHZ^2 12	VW STRN FREQ KHZ^2 39	VW STRN FREQ KHZ^2 40
L0	14:03:44	0.71867	0.68681	0.73757	0.66557	0.68560	0.60773	0.66589	0.68719	0.66142	0.65797	0.74291	0.76461	0.84184	0.77457
L0	14:25:42	0.71868	0.68682	0.73760	0.66558	0.68565	0.60777	0.66595	0.68735	0.66152	0.65805	0.74296	0.76467	0.84190	0.77459
L0	14:27:26	0.71871	0.68681	0.73753	0.66557	0.68565	0.60776	0.66595	0.68735	0.66149	0.65805	0.74295	0.76464	0.84186	0.77461
L1	14:28:53	0.71868	0.68681	0.73757	0.66555	0.68557	0.60773	0.66584	0.68721	0.66154	0.65790	0.74286	0.76440	0.84150	0.77408
L1	14:29:24	0.71870	0.68680	0.73757	0.66555	0.68557	0.60773	0.66584	0.68719	0.66147	0.65787	0.74284	0.76438	0.84151	0.77407
L1	14:30:22	0.71867	0.68683	0.73760	0.66557	0.68559	0.60774	0.66586	0.68722	0.66154	0.65786	0.74285	0.76439	0.84151	0.77406
L1	14:32:30	0.71867	0.68681	0.73757	0.66555	0.68560	0.60774	0.66584	0.68726	0.66153	0.65790	0.74286	0.76438	0.84150	0.77405
L2	14:34:41	0.71868	0.68681	0.73756	0.66552	0.68548	0.60768	0.66572	0.68711	0.66149	0.65743	0.74276	0.76403	0.84132	0.77317
L2	14:35:45	0.71867	0.68681	0.73754	0.66551	0.68548	0.60769	0.66573	0.68711	0.66144	0.65743	0.74277	0.76402	0.84132	0.77316
L2	14:37:40	0.71868	0.68680	0.73758	0.66552	0.68549	0.60770	0.66573	0.68711	0.66146	0.65744	0.74277	0.76402	0.84133	0.77316
L3	14:39:08	0.71867	0.68679	0.73738	0.66540	0.68505	0.60742	0.66536	0.68684	0.66093	0.65712	0.74225	0.76253	0.84125	0.77151
L3	14:39:40	0.71864	0.68680	0.73748	0.66539	0.68504	0.60741	0.66534	0.68684	0.66093	0.65712	0.74226	0.76252	0.84125	0.77149
L3	14:40:40	0.71868	0.68679	0.73744	0.66540	0.68505	0.60742	0.66527	0.68685	0.66090	0.65711	0.74228	0.76250	0.84123	0.77148
L3	14:42:38	0.71867	0.68680	0.73746	0.66540	0.68506	0.60742	0.66529	0.68682	0.66087	0.65708	0.74226	0.76248	0.84126	0.77149
L4	14:44:13	0.71864	0.68680	0.73746	0.66528	0.68479	0.60697	0.66470	0.68596	0.66017	0.65593	0.74115	0.76138	0.83942	0.76970
L4	14:44:44	0.71866	0.68680	0.73746	0.66527	0.68480	0.60697	0.66469	0.68595	0.66018	0.65593	0.74113	0.76137	0.83942	0.76970
L4	14:45:43	0.71867	0.68679	0.73746	0.66530	0.68480	0.60697	0.66469	0.68596	0.66019	0.65597	0.74114	0.76133	0.83941	0.76969
L4	14:47:45	0.71866	0.68680	0.73747	0.66533	0.68479	0.60697	0.66468	0.68596	0.66020	0.65593	0.74115	0.76133	0.83939	0.76970
L5	14:49:14	0.71864	0.68680	0.73738	0.66488	0.68416	0.60652	0.66411	0.68534	0.65845	0.65538	0.73977	0.75986	0.83788	0.76792
L5	14:49:45	0.71864	0.68680	0.73737	0.66491	0.68415	0.60651	0.66407	0.68530	0.65839	0.65538	0.73973	0.75985	0.83781	0.76790
L5	14:50:45	0.71863	0.68680	0.73738	0.66490	0.68417	0.60652	0.66409	0.68532	0.65841	0.65539	0.73973	0.75985	0.83783	0.76791
L5	14:52:46	0.71863	0.68680	0.73737	0.66491	0.68416	0.60651	0.66403	0.68529	0.65837	0.65537	0.73970	0.75984	0.83780	0.76790
L6	14:54:12	0.71862	0.68680	0.73718	0.66502	0.68381	0.60629	0.66343	0.68449	0.65819	0.65418	0.73827	0.75839	0.83589	0.76610
L6	14:54:48	0.71861	0.68681	0.73717	0.66504	0.68381	0.60629	0.66342	0.68444	0.65822	0.65416	0.73827	0.75837	0.83590	0.76610
L6	14:55:42	0.71862	0.68681	0.73719	0.66501	0.68379	0.60628	0.66342	0.68443	0.65820	0.65415	0.73827	0.75836	0.83589	0.76608
L6	14:57:44	0.71860	0.68680	0.73719	0.66503	0.68381	0.60628	0.66342	0.68442	0.65819	0.65414	0.73824	0.75833	0.83588	0.76609
L7	14:59:12	0.71860	0.68681	0.73700	0.66497	0.68317	0.60579	0.66283	0.68390	0.65701	0.65323	0.73680	0.75721	0.83436	0.76432
L7	14:59:44	0.71858	0.68682	0.73696	0.66498	0.68313	0.60579	0.66284	0.68388	0.65698	0.65321	0.73676	0.75719	0.83436	0.76433
L7	15:00:41	0.71861	0.68681	0.73692	0.66501	0.68280	0.60573	0.66251	0.68383	0.65695	0.65323	0.73683	0.75722	0.83442	0.76434
L7	15:02:40	0.71861	0.68680	0.73702	0.66498	0.68325	0.60583	0.66285	0.68390	0.65700	0.65320	0.73678	0.75719	0.83437	0.76433
L8	15:04:04	0.71860	0.68682	0.73680	0.66491	0.68264	0.60562	0.66192	0.68304	0.65629	0.65228	0.73536	0.75538	0.83248	0.76252
L8	15:04:34	0.71859	0.68681	0.73679	0.66492	0.68262	0.60562	0.66192	0.68303	0.65628	0.65226	0.73536	0.75539	0.83245	0.76254
L8	15:05:36	0.71860	0.68682	0.73680	0.66492	0.68264	0.60561	0.66192	0.68305	0.65629	0.65224	0.73536	0.75538	0.83243	0.76253
L8	15:07:34	0.71860	0.68682	0.73679	0.66491	0.68265	0.60560	0.66192	0.68302	0.65627	0.65219	0.73535	0.75538	0.83245	0.76253
L9	15:08:54	0.71860	0.68683	0.73663	0.66486	0.68305	0.60519	0.66112	0.68243	0.65539	0.65097	0.73386	0.75393	0.83076	0.76071
L9	15:09:24	0.71860	0.68682	0.73662	0.66486	0.68305	0.60518	0.66111	0.68241	0.65537	0.65097	0.73385	0.75392	0.83075	0.76069
L9	15:10:24	0.71860	0.68682	0.73659	0.66485	0.68304	0.60515	0.66112	0.68240	0.65535	0.65097	0.73384	0.75389	0.83073	0.76069
L9	15:12:22	0.71857	0.68682	0.73658	0.66484	0.68302	0.60514	0.66112	0.68239	0.65531	0.65095	0.73383	0.75387	0.83072	0.76069
L10	15:13:38	0.71860	0.68682	0.73656	0.66483	0.68273	0.60500	0.66094	0.68216	0.65477	0.65072	0.73319	0.75322	0.83010	0.75980
L10	15:14:12	0.71859	0.68683	0.73655	0.66481	0.68271	0.60502	0.66095	0.68217	0.65473	0.65069	0.73319	0.75318	0.83009	0.75980
L10	15:15:10	0.71860	0.68682	0.73656	0.66482	0.68272	0.60496	0.66095	0.68218	0.65473	0.65069	0.73319	0.75317	0.83010	0.75979
L10	15:17:08	0.71861	0.68684	0.73655	0.66479	0.68272	0.60501	0.66094	0.68214	0.65472	0.65068	0.73322	0.75317	0.83010	0.75979
L11	15:18:20	0.71861	0.68682	0.73648	0.66477	0.68251	0.60495	0.66044	0.68183	0.65393	0.65031	0.73248	0.75262	0.82896	0.75888

Table F.26 continued

VIBRATING WIRE INSTRUMENT READINGS - STRAIN

VLW 3 LOAD NUMBER	TIME	VW STRN FREQ^2 KHZ^2 1	VW STRN FREQ^2 KHZ^2 2	VW STRN FREQ^2 KHZ^2 31	VW STRN FREQ^2 KHZ^2 32	VW STRN FREQ^2 KHZ^2 33	VW STRN FREQ^2 KHZ^2 34	VW STRN FREQ^2 KHZ^2 19	VW STRN FREQ^2 KHZ^2 20	VW STRN FREQ^2 KHZ^2 9	VW STRN FREQ KHZ^2 10	VW STRN FREQ KHZ^2 11	VW STRN FREQ KHZ^2 12	VW STRN FREQ KHZ^2 39	VW STRN FREQ KHZ^2 40
L11	15:18:51	0.71857	0.68682	0.73646	0.66477	0.68251	0.60494	0.66043	0.68181	0.65386	0.65029	0.73246	0.75260	0.82897	0.75888
L11	15:19:53	0.71860	0.68683	0.73650	0.66479	0.68250	0.60496	0.66043	0.68181	0.65380	0.65027	0.73245	0.75259	0.82902	0.75888
L11	15:21:52	0.71861	0.68683	0.73647	0.66477	0.68250	0.60495	0.66043	0.68178	0.65373	0.65025	0.73243	0.75258	0.82901	0.75887
L12	15:23:18	0.71859	0.68683	0.73638	0.66473	0.68236	0.60491	0.66042	0.68143	0.65367	0.64955	0.73179	0.75163	0.82833	0.75801
L12	15:23:52	0.71859	0.68683	0.73640	0.66472	0.68236	0.60490	0.66042	0.68144	0.65366	0.64954	0.73180	0.75163	0.82834	0.75800
L12	15:24:46	0.71857	0.68684	0.73640	0.66474	0.68236	0.60489	0.66044	0.68146	0.65365	0.64953	0.73180	0.75165	0.82833	0.75801
L12	15:26:48	0.71859	0.68683	0.73641	0.66475	0.68236	0.60489	0.66046	0.68144	0.65364	0.64954	0.73180	0.75163	0.82833	0.75802
L13	15:28:14	0.71859	0.68682	0.73635	0.66471	0.68220	0.60464	0.65971	0.68112	0.65297	0.64903	0.73088	0.75092	0.82713	0.75713
L13	15:28:46	0.71856	0.68683	0.73634	0.66470	0.68221	0.60466	0.65970	0.68112	0.65298	0.64904	0.73088	0.75092	0.82710	0.75715
L13	15:29:44	0.71859	0.68684	0.73635	0.66471	0.68220	0.60466	0.65973	0.68111	0.65296	0.64901	0.73088	0.75091	0.82714	0.75714
L13	15:31:44	0.71857	0.68684	0.73636	0.66470	0.68220	0.60464	0.65971	0.68111	0.65299	0.64899	0.73087	0.75092	0.82712	0.75717
L14	15:33:43	0.71860	0.68684	0.73629	0.66466	0.68204	0.60444	0.65958	0.68072	0.65254	0.64864	0.73022	0.75037	0.82639	0.75624
L14	15:34:14	0.71860	0.68684	0.73630	0.66468	0.68203	0.60443	0.65957	0.68065	0.65254	0.64851	0.73018	0.75033	0.82639	0.75627
L14	15:35:12	0.71855	0.68684	0.73630	0.66466	0.68204	0.60444	0.65959	0.68071	0.65255	0.64863	0.73024	0.75035	0.82639	0.75624
L14	15:37:11	0.71858	0.68683	0.73630	0.66467	0.68204	0.60445	0.65959	0.68101	0.65255	0.64859	0.73024	0.75035	0.82639	0.75626
L15	15:38:54	0.71859	0.68683	0.73626	0.66464	0.68188	0.60436	0.65933	0.68033	0.65192	0.64806	0.72934	0.74954	0.82620	0.75538
L15	15:39:27	0.71858	0.68684	0.73625	0.66464	0.68186	0.60433	0.65931	0.68033	0.65191	0.64807	0.72937	0.74955	0.82618	0.75539
L15	15:40:20	0.71858	0.68684	0.73626	0.66464	0.68187	0.60437	0.65930	0.68031	0.65186	0.64803	0.72939	0.74953	0.82551	0.75540
L15	15:42:20	0.71855	0.68684	0.73624	0.66464	0.68187	0.60435	0.65927	0.68030	0.65183	0.64802	0.72933	0.74954	0.82545	0.75542
L16	15:43:42	0.71858	0.68685	0.73621	0.66464	0.68166	0.60431	0.65881	0.68017	0.65138	0.64742	0.72865	0.74892	0.82472	0.75446
L16	15:44:14	0.71857	0.68684	0.73617	0.66464	0.68167	0.60434	0.65881	0.67997	0.65137	0.64740	0.72871	0.74895	0.82482	0.75450
L16	15:45:12	0.71856	0.68684	0.73624	0.66465	0.68174	0.60433	0.65884	0.68024	0.65140	0.64746	0.72868	0.74895	0.82476	0.75449
L16	15:47:13	0.71859	0.68684	0.73619	0.66463	0.68166	0.60437	0.65880	0.68018	0.65138	0.64739	0.72860	0.74893	0.82469	0.75447
L17	15:48:46	0.71856	0.68684	0.73616	0.66461	0.68116	0.60440	0.65888	0.67984	0.65102	0.64706	0.72785	0.74816	0.82383	0.75375
L17	15:49:18	0.71857	0.68684	0.73616	0.66460	0.68112	0.60442	0.65888	0.67984	0.65102	0.64705	0.72778	0.74816	0.82385	0.75378
L17	15:50:12	0.71859	0.68684	0.73617	0.66461	0.68116	0.60440	0.65886	0.67983	0.65099	0.64702	0.72778	0.74817	0.82383	0.75378
L17	15:52:10	0.71859	0.68684	0.73618	0.66461	0.68118	0.60441	0.65882	0.67982	0.65099	0.64700	0.72774	0.74817	0.82382	0.75382
L18	15:54:08	0.71860	0.68684	0.73614	0.66457	0.68094	0.60409	0.65825	0.67954	0.65014	0.64646	0.72712	0.74751	0.82288	0.75296
L18	15:54:41	0.71860	0.68685	0.73614	0.66459	0.68095	0.60405	0.65827	0.67955	0.65016	0.64647	0.72709	0.74753	0.82289	0.75296
L18	15:55:40	0.71857	0.68684	0.73613	0.66457	0.68090	0.60405	0.65826	0.67952	0.65012	0.64644	0.72708	0.74753	0.82288	0.75302
L18	15:57:40	0.71859	0.68685	0.73615	0.66458	0.68090	0.60401	0.65824	0.67951	0.65013	0.64646	0.72714	0.74763	0.82292	0.75312
L19	15:59:05	0.71858	0.68684	0.73611	0.66456	0.68145	0.60384	0.65813	0.67916	0.64992	0.64591	0.72628	0.74691	0.82212	0.75216
L19	15:59:37	0.71860	0.68683	0.73612	0.66455	0.68143	0.60380	0.65812	0.67918	0.64994	0.64592	0.72631	0.74697	0.82215	0.75221
L19	16:00:34	0.71858	0.68685	0.73613	0.66457	0.68177	0.60382	0.65812	0.67917	0.64989	0.64594	0.72627	0.74699	0.82207	0.75225
L19	16:02:32	0.71861	0.68684	0.73613	0.66457	0.68138	0.60378	0.65809	0.67916	0.64983	0.64593	0.72622	0.74705	0.82210	0.75233
L20	16:04:10	0.71858	0.68683	0.73607	0.66453	0.68176	0.60365	0.65752	0.67871	0.64931	0.64545	0.72549	0.74635	0.82094	0.75161
L20	16:04:41	0.71862	0.68682	0.73609	0.66452	0.68176	0.60366	0.65748	0.67868	0.64929	0.64543	0.72545	0.74633	0.82091	0.75161
L20	16:05:37	0.71859	0.68684	0.73610	0.66454	0.68173	0.60366	0.65734	0.67869	0.64922	0.64546	0.72537	0.74637	0.82089	0.75165
L20	16:07:35	0.71860	0.68683	0.73608	0.66453	0.68173	0.60360	0.65733	0.67864	0.64909	0.64529	0.72491	0.74629	0.82076	0.75164
L21	16:09:08	0.71860	0.68684	0.73604	0.66451	0.68150	0.60363	0.65732	0.67831	0.64868	0.64484	0.72427	0.74561	0.81958	0.75065
L21	16:09:41	0.71858	0.68685	0.73604	0.66452	0.68147	0.60357	0.65724	0.67830	0.64853	0.64468	0.72428	0.74576	0.81967	0.75078
L21	16:10:36	0.71860	0.68683	0.73601	0.66450	0.68139	0.60346	0.65701	0.67813	0.64831	0.64455	0.72404	0.74530	0.81929	0.75055
L21	16:12:37	0.71858	0.68684	0.73601	0.66453	0.68148	0.60329	0.65687	0.67795	0.64829	0.64460	0.72412	0.74527	0.81920	0.75044

Table F.26 continued

VIBRATING WIRE INSTRUMENT READINGS - STRAIN

VLW 3 LOAD NUMBER	TIME	VW STRN FREQ^2 KHZ^2 1	VW STRN FREQ^2 KHZ^2 2	VW STRN FREQ^2 KHZ^2 31	VW STRN FREQ^2 KHZ^2 32	VW STRN FREQ^2 KHZ^2 33	VW STRN FREQ^2 KHZ^2 34	VW STRN FREQ^2 KHZ^2 19	VW STRN FREQ^2 KHZ^2 20	VW STRN FREQ^2 KHZ^2 9	VW STRN FREQ KHZ^2 10	VW STRN FREQ KHZ^2 11	VW STRN FREQ KHZ^2 12	VW STRN FREQ KHZ^2 39	VW STRN FREQ KHZ^2 40
L22	16:14:16	0.71861	0.68685	0.73595	0.66453	0.68115	0.60291	0.65605	0.67747	0.64780	0.64388	0.72303	0.74474	0.81867	0.74962
L22	16:14:48	0.71861	0.68683	0.73594	0.66453	0.68115	0.60287	0.65600	0.67755	0.64779	0.64395	0.72307	0.74480	0.81872	0.74983
L22	16:15:46	0.71856	0.68686	0.73592	0.66450	0.68096	0.60271	0.65605	0.67737	0.64786	0.64404	0.72324	0.74538	0.81983	0.75130
L22A	16:16:16	0.71857	0.68685	0.73594	0.66457	0.68154	0.60302	0.65758	0.67826	0.64906	0.64544	0.72538	0.74689	0.82104	0.75219
L22B	16:17:47	0.71858	0.68685	0.73597	0.66461	0.68167	0.60311	0.65774	0.67836	0.64918	0.64563	0.72550	0.74696	0.82103	0.75224
U1	16:22:51	0.71858	0.68686	0.73609	0.66473	0.68160	0.60362	0.65820	0.67921	0.65003	0.64670	0.72698	0.74864	0.82293	0.75441
U2	16:26:58	0.71859	0.68686	0.73614	0.66476	0.68185	0.60364	0.65835	0.67949	0.65059	0.64704	0.72738	0.74903	0.82359	0.75521
U3	16:31:25	0.71863	0.68686	0.73648	0.66489	0.68247	0.60442	0.65941	0.68032	0.65144	0.64815	0.72824	0.75136	0.82463	0.75815
U4	16:35:24	0.71867	0.68687	0.73689	0.66501	0.68264	0.60474	0.66042	0.68147	0.65359	0.64983	0.73054	0.75386	0.82714	0.76122
U5	16:39:28	0.71870	0.68688	0.73720	0.66491	0.68363	0.60512	0.66203	0.68263	0.65540	0.65164	0.73303	0.75622	0.83019	0.76417
U6	16:43:41	0.71877	0.68689	0.73731	0.66532	0.68440	0.60573	0.66331	0.68426	0.65766	0.65388	0.73655	0.75952	0.83434	0.76799
U7	16:47:34	0.71886	0.68689	0.73745	0.66542	0.68466	0.60629	0.66404	0.68542	0.65951	0.65621	0.73953	0.76227	0.83786	0.77124
U8	16:51:18	0.71892	0.68688	0.73760	0.66563	0.68569	0.60679	0.66567	0.68706	0.66157	0.65841	0.74357	0.76594	0.84259	0.77527
U8A	16:55:44	0.71887	0.68689	0.73760	0.66559	0.68572	0.60676	0.66567	0.68706	0.66156	0.65840	0.74360	0.76594	0.84262	0.77528
U9	17:15:00	0.71891	0.68686	0.73763	0.66551	0.68570	0.60665	0.66571	0.68702	0.66152	0.65835	0.74336	0.76583	0.84215	0.77497
U9	17:30:00	0.71882	0.68684	0.73757	0.66548	0.68568	0.60658	0.66574	0.68692	0.66150	0.65838	0.74326	0.76575	0.84195	0.77481
U9	17:45:00	0.71881	0.68683	0.73756	0.66544	0.68565	0.60655	0.66576	0.68687	0.66157	0.65837	0.74317	0.76567	0.84180	0.77477
U9	18:00:00	0.71870	0.68686	0.73755	0.66543	0.68563	0.60652	0.66578	0.68681	0.66163	0.65836	0.74312	0.76559	0.84172	0.77462
U9	18:15:00	0.71874	0.68683	0.73752	0.66543	0.68561	0.60649	0.66579	0.68675	0.66161	0.65837	0.74306	0.76553	0.84164	0.77454

Table F.26 continued

VIBRATING WIRE INSTRUMENT READINGS - TEMPERATURE

VLW 3 LOAD NUMBER	TIME	VW STRN TEMP DEG C 1	VW STRN TEMP DEG C 2	VW STRN TEMP DEG C 31	VW STRN TEMP DEG C 32	VW STRN TEMP DEG C 33	VW STRN TEMP DEG C 34	VW STRN TEMP DEG C 19	VW STRN TEMP DEG C 20	VW STRN TEMP DEG C 9	VW STRN TEMP DEG C 10	VW STRN TEMP DEG C 11	VW STRN TEMP DEG C 12	VW STRN TEMP DEG C 39	VW STRN TEMP DEG C 40
L0	14:03:44	25.093	24.928	22.958	22.799	21.918	22.609	22.736	22.075	22.926	21.950	22.926	21.731	22.483	22.609
L0	14:25:42	25.093	24.928	22.958	22.799	21.950	22.609	22.736	22.106	22.958	21.950	22.926	21.700	22.452	22.641
L0	14:27:26	25.093	24.928	22.958	22.799	21.918	22.641	22.736	22.106	22.926	21.950	22.926	21.700	22.452	22.641
L1	14:28:53	25.093	24.928	22.958	22.799	21.950	22.609	22.736	22.106	22.926	21.950	22.926	21.731	22.483	22.641
L1	14:29:24	25.093	24.928	22.958	22.799	21.918	22.609	22.736	22.106	22.958	21.950	22.926	21.700	22.452	22.673
L1	14:30:22	25.093	24.928	22.958	22.799	21.950	22.609	22.736	22.106	22.926	21.950	22.958	21.700	22.452	22.673
L1	14:32:30	25.125	24.928	22.989	22.799	21.950	22.609	22.768	22.106	22.926	21.950	22.958	21.700	22.452	22.641
L2	14:34:41	25.090	24.926	22.956	22.797	21.916	22.607	22.765	22.104	22.924	21.947	22.924	21.698	22.450	22.639
L2	14:35:45	25.090	24.926	22.956	22.829	21.947	22.607	22.765	22.104	22.924	21.979	22.924	21.698	22.450	22.639
L2	14:37:40	25.091	24.926	22.956	22.798	21.948	22.608	22.766	22.104	22.924	21.948	22.924	21.698	22.450	22.639
L3	14:39:08	25.124	24.926	22.988	22.798	21.917	22.608	22.766	22.104	22.924	21.948	22.924	21.698	22.450	22.639
L3	14:39:40	25.091	24.926	22.956	22.829	21.948	22.608	22.766	22.104	22.924	21.979	22.924	21.698	22.481	22.671
L3	14:40:40	25.091	24.926	22.956	22.830	21.948	22.640	22.766	22.105	22.956	21.980	22.925	21.699	22.450	22.640
L3	14:42:38	25.091	24.926	23.020	22.798	21.948	22.608	22.766	22.105	22.956	21.948	22.956	21.730	22.482	22.671
L4	14:44:13	25.089	24.924	22.986	22.796	21.947	22.606	22.764	22.103	22.923	21.978	22.923	21.697	22.449	22.638
L4	14:44:44	25.089	24.957	22.986	22.828	21.947	22.638	22.764	22.103	22.923	21.947	22.923	21.697	22.449	22.669
L4	14:45:43	25.122	24.957	22.986	22.796	21.947	22.606	22.764	22.103	22.923	21.947	22.955	21.697	22.449	22.638
L4	14:47:45	25.087	24.923	22.953	22.826	21.945	22.636	22.763	22.102	22.921	21.945	22.921	21.727	22.447	22.636
L5	14:49:14	25.120	24.956	23.017	22.825	21.944	22.635	22.762	22.100	22.920	21.975	22.920	21.694	22.446	22.635
L5	14:49:45	25.119	24.954	22.984	22.825	21.944	22.604	22.730	22.100	22.920	21.944	22.920	21.694	22.446	22.667
L5	14:50:45	25.119	24.954	22.984	22.825	21.944	22.604	22.762	22.100	22.920	21.944	22.920	21.694	22.446	22.667
L5	14:52:46	25.118	24.953	22.983	22.824	21.943	22.603	22.761	22.131	22.919	21.943	22.919	21.693	22.445	22.634
L6	14:54:12	25.118	24.953	22.983	22.824	21.943	22.603	22.761	22.099	22.951	21.974	22.951	21.693	22.445	22.634
L6	14:54:48	25.118	24.953	22.983	22.824	21.974	22.603	22.761	22.099	22.951	21.974	22.951	21.693	22.445	22.634
L6	14:55:42	25.117	24.953	23.014	22.855	21.942	22.602	22.760	22.099	22.982	21.973	22.950	21.693	22.444	22.634
L6	14:57:44	25.117	24.953	23.014	22.823	21.942	22.602	22.760	22.099	22.918	21.942	22.950	21.724	22.476	22.633
L7	14:59:12	25.117	24.952	22.981	22.823	21.942	22.601	22.791	22.129	22.950	21.973	22.950	21.692	22.443	22.633
L7	14:59:44	25.117	24.952	23.013	22.823	21.942	22.601	22.759	22.098	22.950	21.942	22.918	21.692	22.443	22.633
L7	15:00:41	25.117	24.952	22.981	22.823	21.942	22.601	22.759	22.098	22.950	21.973	22.950	21.692	22.475	22.664
L7	15:02:40	25.116	24.951	22.981	22.822	21.941	22.601	22.759	22.098	22.981	21.972	22.949	21.692	22.475	22.632
L8	15:04:04	25.116	24.951	22.981	22.822	21.972	22.600	22.758	22.097	22.949	21.972	22.949	21.691	22.443	22.664
L8	15:04:34	25.116	24.951	22.981	22.822	21.941	22.600	22.758	22.097	22.949	21.972	22.949	21.691	22.474	22.632
L8	15:05:36	25.116	24.951	22.981	22.822	21.941	22.600	22.758	22.097	22.981	21.972	22.949	21.691	22.474	22.632
L8	15:07:34	25.146	24.948	22.978	22.819	21.938	22.598	22.756	22.095	22.946	21.970	22.946	21.689	22.472	22.630
L9	15:08:54	25.113	24.948	22.978	22.819	21.938	22.598	22.756	22.126	22.978	22.001	22.946	21.720	22.472	22.630
L9	15:09:24	25.113	24.948	22.978	22.819	21.938	22.630	22.756	22.095	22.946	21.970	22.946	21.720	22.472	22.630
L9	15:10:24	25.111	24.946	22.976	22.817	21.937	22.596	22.754	22.124	22.944	21.968	22.944	21.718	22.470	22.628
L9	15:12:22	25.111	24.946	22.976	22.817	21.968	22.596	22.786	22.093	22.944	21.968	22.944	21.718	22.470	22.628
L10	15:13:38	25.109	24.945	22.974	22.847	21.935	22.595	22.753	22.091	22.943	21.966	22.943	21.686	22.468	22.626
L10	15:14:12	25.109	24.945	22.974	22.816	21.935	22.595	22.753	22.091	22.943	21.997	22.943	21.717	22.468	22.626
L10	15:15:10	25.142	24.945	22.974	22.816	21.966	22.595	22.753	22.091	22.943	21.966	22.943	21.748	22.468	22.626
L10	15:17:08	25.108	24.943	22.973	22.815	21.934	22.593	22.751	22.090	22.941	21.965	22.941	21.715	22.467	22.625
L11	15:18:20	25.141	24.943	23.005	22.815	21.934	22.593	22.783	22.090	22.973	21.965	22.941	21.715	22.466	22.624

Table F.26 continued

VIBRATING WIRE INSTRUMENT READINGS - TEMPERATURE

VLW 3 LOAD NUMBER	TIME	VW STRN TEMP DEG C 1	VW STRN TEMP DEG C 2	VW STRN TEMP DEG C 31	VW STRN TEMP DEG C 32	VW STRN TEMP DEG C 33	VW STRN TEMP DEG C 34	VW STRN TEMP DEG C 19	VW STRN TEMP DEG C 20	VW STRN TEMP DEG C 9	VW STRN TEMP DEG C 10	VW STRN TEMP DEG C 11	VW STRN TEMP DEG C 12	VW STRN TEMP DEG C 39	VW STRN TEMP DEG C 40
L11	15:18:51	25.107	24.942	22.972	22.814	21.933	22.592	22.750	22.089	22.940	21.995	22.972	21.715	22.466	22.655
L11	15:19:53	25.107	24.942	22.972	22.814	21.933	22.592	22.750	22.089	22.940	21.964	22.940	21.715	22.466	22.624
L11	15:21:52	25.139	24.941	22.971	22.813	21.932	22.591	22.749	22.088	22.971	21.963	22.940	21.714	22.497	22.623
L12	15:23:18	25.106	24.941	22.971	22.813	21.932	22.623	22.749	22.088	22.971	21.963	22.940	21.714	22.465	22.623
L12	15:23:52	25.106	24.941	23.003	22.813	21.932	22.591	22.749	22.088	22.940	21.963	22.940	21.714	22.465	22.623
L12	15:24:46	25.105	24.941	23.003	22.812	21.931	22.591	22.780	22.088	22.939	21.963	22.939	21.744	22.465	22.622
L12	15:26:48	25.138	24.941	22.971	22.812	21.963	22.591	22.749	22.088	22.939	21.963	22.971	21.713	22.465	22.622
L13	15:28:14	25.105	24.940	22.970	22.812	21.931	22.590	22.748	22.087	22.970	21.962	22.970	21.713	22.496	22.622
L13	15:28:46	25.138	24.973	22.970	22.812	21.931	22.590	22.748	22.087	22.939	21.962	22.939	21.713	22.464	22.622
L13	15:29:44	25.105	24.940	22.970	22.812	21.931	22.590	22.748	22.087	22.939	21.993	22.939	21.713	22.496	22.622
L13	15:31:44	25.104	24.940	22.970	22.811	21.930	22.590	22.748	22.087	22.938	21.962	22.938	21.712	22.495	22.621
L14	15:33:43	25.104	24.939	22.970	22.811	21.930	22.590	22.748	22.086	22.938	21.961	22.938	21.712	22.463	22.621
L14	15:34:14	25.104	24.939	22.970	22.811	21.961	22.590	22.748	22.086	22.970	21.961	22.938	21.743	22.495	22.621
L14	15:35:12	25.137	24.939	22.970	22.811	21.961	22.590	22.748	22.118	22.938	21.961	22.938	21.712	22.495	22.621
L14	15:37:11	25.104	24.939	22.969	22.811	21.930	22.589	22.747	22.118	22.969	21.961	22.937	21.712	22.463	22.621
L15	15:38:54	25.104	24.939	22.969	22.811	21.930	22.589	22.747	22.086	22.937	21.961	22.937	21.743	22.463	22.621
L15	15:39:27	25.103	24.939	23.001	22.810	21.961	22.589	22.747	22.086	22.937	21.961	22.937	21.711	22.463	22.621
L15	15:40:20	25.103	24.939	22.969	22.810	21.930	22.589	22.747	22.086	22.969	21.961	22.937	21.711	22.463	22.621
L15	15:42:20	25.103	24.939	22.969	22.810	21.930	22.621	22.779	22.086	22.937	21.961	22.937	21.711	22.463	22.621
L16	15:43:42	25.103	24.939	22.969	22.810	21.961	22.589	22.747	22.086	22.937	21.961	22.937	21.711	22.494	22.621
L16	15:44:14	25.103	24.939	22.969	22.810	21.961	22.589	22.747	22.117	22.937	21.961	22.937	21.711	22.463	22.621
L16	15:45:12	25.103	24.938	23.001	22.810	21.930	22.589	22.778	22.086	22.969	21.961	22.969	21.742	22.463	22.620
L16	15:47:13	25.103	24.938	23.001	22.810	21.930	22.620	22.747	22.117	22.937	21.992	22.937	21.711	22.463	22.620
L17	15:48:46	25.103	24.938	22.969	22.810	21.961	22.589	22.747	22.117	22.969	21.992	22.937	21.711	22.463	22.620
L17	15:49:18	25.103	24.971	23.000	22.842	21.961	22.589	22.747	22.117	22.937	21.961	22.937	21.742	22.494	22.620
L17	15:50:12	25.103	24.938	22.969	22.810	21.929	22.589	22.747	22.086	22.937	21.961	22.937	21.742	22.463	22.620
L17	15:52:10	25.103	24.938	22.969	22.810	21.929	22.589	22.778	22.086	22.937	21.960	22.937	21.742	22.462	22.620
L18	15:54:08	25.103	24.938	23.000	22.810	21.929	22.589	22.746	22.086	22.937	21.960	22.937	21.742	22.462	22.620
L18	15:54:41	25.103	24.938	22.968	22.810	21.929	22.620	22.746	22.086	22.937	21.960	22.937	21.711	22.462	22.652
L18	15:55:40	25.136	24.938	22.968	22.810	21.960	22.589	22.746	22.117	22.937	21.960	22.937	21.711	22.462	22.652
L18	15:57:40	25.103	24.938	22.968	22.810	21.929	22.589	22.746	22.085	22.968	21.960	22.937	21.711	22.462	22.620
L19	15:59:05	25.103	24.938	22.968	22.841	21.929	22.589	22.778	22.117	22.937	21.960	22.968	21.711	22.462	22.620
L19	15:59:37	25.103	24.938	22.968	22.810	21.927	22.586	22.744	22.083	22.935	21.958	22.935	21.709	22.460	22.618
L19	16:00:34	25.100	24.936	22.966	22.808	21.958	22.618	22.776	22.083	22.935	21.958	22.966	21.709	22.492	22.618
L19	16:02:32	25.100	24.936	22.966	22.808	21.927	22.585	22.774	22.113	22.965	21.957	22.965	21.707	22.490	22.616
L20	16:04:10	25.131	24.967	22.965	22.838	21.925	22.585	22.774	22.082	22.933	21.957	22.933	21.738	22.459	22.616
L20	16:04:41	25.099	24.934	22.965	22.806	21.925	22.585	22.774	22.082	22.933	21.957	22.933	21.738	22.459	22.616
L20	16:05:37	25.097	24.932	22.963	22.805	21.924	22.615	22.773	22.080	22.931	21.955	22.931	21.706	22.457	22.615
L20	16:07:35	25.130	24.932	22.963	22.805	21.955	22.583	22.741	22.080	22.931	21.955	22.931	21.737	22.457	22.615
L21	16:09:08	25.131	24.934	22.964	22.806	21.956	22.616	22.742	22.113	22.932	21.956	22.932	21.707	22.458	22.616
L21	16:09:41	25.098	24.967	22.964	22.837	21.925	22.584	22.742	22.081	22.932	21.956	22.932	21.707	22.490	22.616
L21	16:10:36	25.098	24.934	22.996	22.837	21.925	22.584	22.774	22.081	22.932	21.956	22.932	21.707	22.458	22.648
L21	16:12:37	25.099	24.934	22.965	22.806	21.926	22.617	22.743	22.082	22.933	21.988	22.933	21.739	22.459	22.617

Table F.26 continued

VIBRATING WIRE INSTRUMENT READINGS - TEMPERATURE

VLW 3 LOAD NUMBER	TIME	VW STRN TEMP DEG C 1	VW STRN TEMP DEG C 2	VW STRN TEMP DEG C 31	VW STRN TEMP DEG C 32	VW STRN TEMP DEG C 33	VW STRN TEMP DEG C 34	VW STRN TEMP DEG C 19	VW STRN TEMP DEG C 20	VW STRN TEMP DEG C 9	VW STRN TEMP DEG C 10	VW STRN TEMP DEG C 11	VW STRN TEMP DEG C 12	VW STRN TEMP DEG C 39	VW STRN TEMP DEG C 40
L22	16:14:16	25.099	24.934	22.965	22.806	21.926	22.584	22.773	22.112	22.932	21.956	22.932	21.706	22.458	22.615
L22	16:14:48	25.097	24.933	22.964	22.836	21.924	22.584	22.742	22.081	22.932	21.956	22.932	21.737	22.458	22.615
L22	16:15:46	25.097	24.933	22.964	22.805	21.924	22.584	22.773	22.081	22.932	21.956	22.932	21.706	22.458	22.615
L22A	16:16:16	25.097	24.933	22.964	22.805	21.924	22.584	22.773	22.112	22.932	21.956	22.964	21.706	22.458	22.615
L22B	16:17:47	25.098	24.934	22.964	22.806	21.925	22.584	22.774	22.081	22.933	21.957	22.964	21.707	22.490	22.648
U1	16:22:51	25.099	24.935	22.997	22.807	21.926	22.585	22.775	22.082	22.933	21.957	22.965	21.706	22.489	22.615
U2	16:26:58	25.099	24.934	22.965	22.806	21.925	22.585	22.743	22.082	22.933	21.957	22.933	21.707	22.459	22.648
U3	16:31:25	25.099	24.935	22.965	22.807	21.926	22.586	22.743	22.082	22.934	21.957	22.934	21.708	22.459	22.617
U4	16:35:24	25.101	24.936	22.998	22.808	21.927	22.586	22.744	22.083	22.935	21.958	22.935	21.709	22.460	22.650
U5	16:39:28	25.134	24.936	22.967	22.808	21.927	22.587	22.745	22.115	22.935	21.959	22.935	21.709	22.461	22.618
U6	16:43:41	25.101	24.937	22.967	22.809	21.928	22.587	22.745	22.084	22.935	21.991	22.935	21.710	22.461	22.619
U7	16:47:34	25.135	24.937	22.967	22.809	21.928	22.588	22.746	22.084	22.936	21.959	22.936	21.710	22.493	22.619
U8	16:51:18	25.102	24.937	22.999	22.809	21.928	22.588	22.746	22.085	22.936	21.960	22.967	21.710	22.462	22.619
U8A	16:55:44	25.102	24.937	22.968	22.809	21.929	22.588	22.746	22.085	22.904	21.960	22.936	21.679	22.493	22.619
U9	17:15:00	25.103	24.939	23.001	22.842	21.930	22.589	22.779	22.086	22.937	21.930	22.937	21.680	22.494	22.620
U9	17:30:00	25.110	24.979	22.976	22.817	21.967	22.596	22.785	22.093	22.944	21.936	22.912	21.687	22.438	22.627
U9	17:45:00	25.113	24.948	23.009	22.819	21.938	22.598	22.756	22.095	22.914	21.938	22.914	21.689	22.440	22.630
U9	18:00:00	25.119	24.956	22.985	22.795	21.945	22.605	22.731	22.102	22.921	21.945	22.921	21.696	22.447	22.636
U9	18:15:00	25.124	24.959	22.956	22.798	21.917	22.608	22.734	22.073	22.924	21.948	22.924	21.699	22.450	22.640

Table F.26 continued

VIBRATING WIRE CALCULATED STRAIN INCREMENTS

VLW 3 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 1	VW STRN MICRO STRAIN 2	VW STRN MICRO STRAIN 31	VW STRN MICRO STRAIN 32	VW STRN MICRO STRAIN 33	VW STRN MICRO STRAIN 34	VW STRN MICRO STRAIN 19	VW STRN MICRO STRAIN 20	VW STRN MICRO STRAIN 9	VW STRN MICRO STRAIN 10	VW STRN MICRO STRAIN 11	VW STRN MICRO STRAIN 12	VW STRN MICRO STRAIN 39	VW STRN MICRO STRAIN 40
L0	14:03:44	0.1	0.0	-0.1	0.0	0.2	0.1	0.2	0.6	0.2	0.3	0.1	0.1	0.0	0.2
L0	14:25:42	0.1	-0.0	-0.2	-0.0	-0.0	0.0	0.0	0.0	-0.1	0.0	-0.0	-0.1	-0.1	0.1
L0	14:27:26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
L1	14:28:53	0.1	0.0	-0.1	0.1	0.2	0.1	0.4	0.5	-0.2	0.5	0.3	0.8	1.1	1.8
L1	14:29:24	0.0	0.0	-0.1	0.1	0.3	0.1	0.4	0.5	0.0	0.6	0.4	0.9	1.2	1.7
L1	14:30:22	0.1	-0.1	-0.2	0.0	0.2	0.1	0.3	0.4	-0.2	0.6	0.3	0.8	1.2	1.8
L1	14:32:30	0.1	0.0	-0.2	0.1	0.1	0.1	0.3	0.3	-0.1	0.5	0.3	0.9	1.2	1.9
L2	14:34:41	0.1	0.0	-0.1	0.2	0.6	0.3	0.7	0.8	0.0	2.1	0.6	2.0	1.8	4.8
L2	14:35:45	0.1	0.0	-0.0	0.2	0.5	0.3	0.7	0.8	0.2	2.0	0.6	2.1	1.8	4.8
L2	14:37:40	0.1	0.0	-0.2	0.2	0.5	0.2	0.7	0.8	0.1	2.0	0.6	2.1	1.8	4.8
L3	14:39:08	0.1	0.1	0.5	0.6	2.0	1.2	1.9	1.7	1.9	3.1	2.3	7.0	2.0	10.2
L3	14:39:40	0.2	0.0	0.2	0.6	2.0	1.2	2.0	1.7	1.9	3.0	2.3	7.0	2.0	10.3
L3	14:40:40	0.1	0.1	0.3	0.5	1.9	1.1	2.2	1.7	1.9	3.1	2.2	7.1	2.1	10.3
L3	14:42:38	0.1	0.0	0.2	0.6	1.9	1.2	2.1	1.8	2.0	3.2	2.2	7.1	1.9	10.3
L4	14:44:13	0.2	0.0	0.2	1.0	2.8	2.7	4.1	4.6	4.4	7.0	6.0	10.8	8.1	16.2
L4	14:44:44	0.2	-0.0	0.2	1.0	2.8	2.6	4.1	4.6	4.3	7.0	6.0	10.8	8.1	16.2
L4	14:45:43	0.1	0.0	0.2	0.9	2.8	2.7	4.1	4.6	4.3	6.9	5.9	10.9	8.1	16.3
L4	14:47:45	0.2	0.0	0.2	0.8	2.8	2.6	4.2	4.6	4.3	7.0	6.0	10.9	8.2	16.2
L5	14:49:14	0.2	-0.0	0.4	2.2	4.9	4.1	6.0	6.6	10.1	8.8	10.5	15.8	13.2	22.1
L5	14:49:45	0.2	-0.0	0.5	2.1	4.9	4.2	6.2	6.8	10.3	8.8	10.6	15.8	13.4	22.1
L5	14:50:45	0.2	-0.0	0.5	2.2	4.9	4.1	6.1	6.7	10.2	8.8	10.6	15.8	13.3	22.1
L5	14:52:46	0.2	0.0	0.5	2.1	4.9	4.2	6.3	6.8	10.3	8.9	10.7	15.9	13.4	22.2
L6	14:54:12	0.3	0.0	1.1	1.8	6.0	4.9	8.3	9.5	10.9	12.8	15.4	20.7	19.7	28.1
L6	14:54:48	0.3	-0.0	1.2	1.7	6.0	4.9	8.3	9.6	10.8	12.8	15.4	20.7	19.7	28.1
L6	14:55:42	0.3	-0.0	1.1	1.8	6.1	4.9	8.3	9.7	10.8	12.9	15.4	20.8	19.7	28.2
L6	14:57:44	0.3	0.0	1.1	1.8	6.0	4.9	8.3	9.7	10.9	12.9	15.5	20.8	19.7	28.2
L7	14:59:12	0.3	-0.0	1.7	2.0	8.2	6.6	10.2	11.4	14.8	15.9	20.3	24.6	24.8	34.0
L7	14:59:44	0.4	-0.1	1.8	1.9	8.3	6.6	10.2	11.5	14.9	16.0	20.5	24.6	24.8	34.0
L7	15:00:41	0.3	-0.0	2.0	1.8	9.4	6.8	11.3	11.6	15.0	15.9	20.2	24.5	24.6	33.9
L7	15:02:40	0.3	0.0	1.7	1.9	7.9	6.4	10.2	11.4	14.8	16.0	20.4	24.6	24.7	34.0
L8	15:04:04	0.3	-0.1	2.4	2.2	9.9	7.1	13.3	14.3	17.2	19.0	25.0	30.6	31.0	39.9
L8	15:04:34	0.4	-0.0	2.4	2.1	10.0	7.1	13.3	14.3	17.2	19.1	25.0	30.6	31.1	39.9
L8	15:05:36	0.3	-0.1	2.4	2.1	9.9	7.2	13.3	14.2	17.1	19.2	25.0	30.6	31.1	39.9
L8	15:07:34	0.3	-0.1	2.4	2.2	9.9	7.2	13.3	14.3	17.2	19.3	25.1	30.6	31.1	39.9
L9	15:08:54	0.3	-0.1	2.9	2.3	8.6	8.5	15.9	16.2	20.1	23.3	30.0	35.4	36.6	45.9
L9	15:09:24	0.3	-0.1	3.0	2.3	8.6	8.5	16.0	16.3	20.2	23.4	30.0	35.4	36.7	46.0
L9	15:10:24	0.3	-0.1	3.1	2.4	8.6	8.7	15.9	16.3	20.3	23.4	30.1	35.5	36.8	46.0
L9	15:12:22	0.4	-0.1	3.1	2.4	8.6	8.7	15.9	16.4	20.4	23.4	30.1	35.6	36.8	46.0
L10	15:13:38	0.3	-0.1	3.2	2.4	9.6	9.2	16.5	17.2	22.2	24.2	32.2	37.7	38.8	49.0
L10	15:14:12	0.4	-0.1	3.2	2.5	9.7	9.1	16.5	17.1	22.3	24.3	32.2	37.8	38.9	49.0
L10	15:15:10	0.3	-0.1	3.2	2.5	9.6	9.3	16.5	17.1	22.3	24.3	32.2	37.8	38.8	49.0
L10	15:17:08	0.3	-0.1	3.2	2.6	9.7	9.1	16.5	17.2	22.3	24.3	32.1	37.9	38.8	49.0
L11	15:18:20	0.3	-0.1	3.4	2.6	10.4	9.3	18.1	18.3	24.9	25.6	34.6	39.7	42.6	52.0

Table F.26 continued

VIBRATING WIRE CALCULATED STRAIN INCREMENTS

VLW 3 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 1	VW STRN MICRO STRAIN 2	VW STRN MICRO STRAIN 31	VW STRN MICRO STRAIN 32	VW STRN MICRO STRAIN 33	VW STRN MICRO STRAIN 34	VW STRN MICRO STRAIN 19	VW STRN MICRO STRAIN 20	VW STRN MICRO STRAIN 9	VW STRN MICRO STRAIN 10	VW STRN MICRO STRAIN 11	VW STRN MICRO STRAIN 12	VW STRN MICRO STRAIN 39	VW STRN MICRO STRAIN 40
L11	15:18:51	0.4	-0.1	3.5	2.6	10.4	9.4	18.2	18.3	25.2	25.6	34.6	39.8	42.6	52.0
L11	15:19:53	0.3	-0.1	3.4	2.6	10.4	9.3	18.2	18.3	25.4	25.7	34.7	39.8	42.4	52.0
L11	15:21:52	0.3	-0.1	3.5	2.6	10.4	9.3	18.2	18.4	25.6	25.8	34.7	39.8	42.4	52.0
L12	15:23:18	0.4	-0.1	3.8	2.8	10.9	9.4	18.3	19.6	25.8	28.1	36.9	43.0	44.7	54.9
L12	15:23:52	0.4	-0.1	3.7	2.8	10.9	9.5	18.3	19.6	25.9	28.1	36.8	43.0	44.7	54.9
L12	15:24:46	0.4	-0.1	3.7	2.7	10.9	9.5	18.1	19.5	25.9	28.1	36.8	42.9	44.7	54.9
L12	15:26:48	0.3	-0.1	3.7	2.7	10.8	9.5	18.1	19.6	25.9	28.1	36.8	43.0	44.7	54.8
L13	15:28:14	0.4	-0.0	3.9	2.8	11.4	10.4	20.6	20.6	28.1	29.8	39.8	45.3	48.6	57.8
L13	15:28:46	0.4	-0.1	3.9	2.9	11.3	10.3	20.6	20.6	28.1	29.8	39.9	45.3	48.8	57.7
L13	15:29:44	0.4	-0.1	3.9	2.8	11.4	10.3	20.5	20.6	28.2	29.8	39.9	45.3	48.6	57.7
L13	15:31:44	0.4	-0.1	3.9	2.9	11.4	10.4	20.6	20.6	28.1	29.9	39.9	45.3	48.6	57.6
L14	15:33:43	0.3	-0.1	4.1	3.0	11.9	11.0	21.0	21.9	29.6	31.1	42.0	47.1	51.1	60.7
L14	15:34:14	0.3	-0.1	4.0	2.9	11.9	11.1	21.1	22.2	29.5	31.5	42.2	47.2	51.1	60.6
L14	15:35:12	0.5	-0.1	4.0	3.0	11.9	11.0	21.0	21.9	29.5	31.1	42.0	47.2	51.1	60.7
L14	15:37:11	0.4	-0.1	4.0	3.0	11.9	11.0	21.0	20.9	29.5	31.2	42.0	47.2	51.1	60.7
L15	15:38:54	0.4	-0.1	4.2	3.1	12.4	11.3	21.9	23.2	31.6	33.0	45.0	49.8	51.7	63.6
L15	15:39:27	0.4	-0.1	4.2	3.1	12.5	11.4	21.9	23.2	31.6	33.0	44.9	49.8	51.8	63.5
L15	15:40:20	0.4	-0.1	4.2	3.1	12.5	11.3	22.0	23.3	31.8	33.1	44.8	49.9	54.0	63.5
L15	15:42:20	0.5	-0.1	4.2	3.1	12.5	11.3	22.0	23.3	31.9	33.1	45.0	49.9	54.2	63.4
L16	15:43:42	0.4	-0.1	4.3	3.1	13.1	11.5	23.6	23.7	33.4	35.1	47.2	51.9	56.6	66.6
L16	15:44:14	0.4	-0.1	4.5	3.1	13.1	11.4	23.6	24.4	33.4	35.2	47.0	51.8	56.3	66.5
L16	15:45:12	0.5	-0.1	4.2	3.0	12.9	11.4	23.4	23.5	33.3	35.0	47.1	51.8	56.5	66.5
L16	15:47:13	0.4	-0.1	4.4	3.1	13.2	11.2	23.6	23.7	33.4	35.2	47.4	51.9	56.7	66.6
L17	15:48:46	0.5	-0.1	4.5	3.2	14.8	11.2	23.3	24.8	34.5	36.3	49.9	54.4	59.6	68.9
L17	15:49:18	0.4	-0.2	4.5	3.1	14.9	11.1	23.3	24.8	34.6	36.3	50.1	54.4	59.5	68.8
L17	15:50:12	0.4	-0.1	4.5	3.2	14.8	11.2	23.4	24.9	34.7	36.4	50.1	54.4	59.6	68.8
L17	15:52:10	0.4	-0.1	4.4	3.2	14.8	11.1	23.5	24.9	34.7	36.5	50.2	54.4	59.6	68.7
L18	15:54:08	0.4	-0.1	4.5	3.3	15.5	12.2	25.4	25.8	37.5	38.3	52.3	56.5	62.7	71.6
L18	15:54:41	0.4	-0.1	4.6	3.2	15.5	12.3	25.4	25.8	37.4	38.2	52.4	56.5	62.7	71.5
L18	15:55:40	0.4	-0.1	4.6	3.3	15.6	12.3	25.4	25.9	37.6	38.3	52.4	56.5	62.7	71.3
L18	15:57:40	0.4	-0.1	4.5	3.3	15.7	12.5	25.5	25.9	37.5	38.3	52.2	56.2	62.6	71.0
L19	15:59:05	0.4	-0.1	4.7	3.3	13.9	13.0	25.8	27.0	38.2	40.1	55.0	58.6	65.2	74.2
L19	15:59:37	0.4	-0.1	4.6	3.4	13.9	13.2	25.9	27.0	38.1	40.1	55.0	58.4	65.1	74.0
L19	16:00:34	0.4	-0.1	4.6	3.3	12.8	13.0	25.8	27.1	38.3	40.0	55.1	58.3	65.3	73.9
L19	16:02:32	0.3	-0.1	4.6	3.3	14.1	13.2	25.9	27.1	38.5	40.0	55.2	58.1	65.2	73.6
L20	16:04:10	0.4	-0.1	4.8	3.4	12.8	13.7	27.8	28.6	40.2	41.6	57.7	60.4	69.1	76.0
L20	16:04:41	0.3	-0.0	4.7	3.5	12.8	13.6	27.9	28.7	40.3	41.7	57.8	60.4	69.2	76.0
L20	16:05:37	0.4	-0.1	4.7	3.4	12.9	13.6	28.4	28.6	40.5	41.6	58.1	60.4	69.3	75.9
L20	16:07:35	0.3	-0.1	4.8	3.4	12.9	13.8	28.5	28.8	41.0	42.2	59.6	60.6	69.7	75.9
L21	16:09:08	0.3	-0.1	4.9	3.5	13.7	13.7	28.5	29.9	42.3	43.6	61.7	62.9	73.6	79.2
L21	16:09:41	0.4	-0.2	4.9	3.4	13.8	13.9	28.8	29.9	42.8	44.2	61.7	62.4	73.3	78.8
L21	16:10:36	0.4	-0.1	5.0	3.5	14.1	14.3	29.5	30.5	43.5	44.6	62.5	63.9	74.6	79.5
L21	16:12:37	0.4	-0.1	5.0	3.4	13.8	14.8	30.0	31.1	43.6	44.4	62.2	63.9	74.9	79.9

Table F.26 continued

VIBRATING WIRE CALCULATED STRAIN INCREMENTS

VLW 3 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 1	VW STRN MICRO STRAIN 2	VW STRN MICRO STRAIN 31	VW STRN MICRO STRAIN 32	VW STRN MICRO STRAIN 33	VW STRN MICRO STRAIN 34	VW STRN MICRO STRAIN 19	VW STRN MICRO STRAIN 20	VW STRN MICRO STRAIN 9	VW STRN MICRO STRAIN 10	VW STRN MICRO STRAIN 11	VW STRN MICRO STRAIN 12	VW STRN MICRO STRAIN 39	VW STRN MICRO STRAIN 40
L22	16:14:16	0.3	-0.1	5.2	3.4	14.9	16.1	32.7	32.6	45.2	46.8	65.8	65.7	76.6	82.6
L22	16:14:48	0.3	-0.1	5.2	3.4	14.9	16.2	32.9	32.4	45.3	46.6	65.7	65.5	76.4	81.9
L22	16:15:46	0.5	-0.2	5.3	3.5	15.5	16.8	32.7	33.0	45.0	46.3	65.1	63.6	72.8	77.1
L22A	16:16:16	0.5	-0.1	5.2	3.3	13.6	15.7	27.6	30.0	41.1	41.7	58.0	58.6	68.8	74.1
L22B	16:17:47	0.4	-0.1	5.1	3.2	13.1	15.4	27.1	29.7	40.7	41.0	57.6	58.4	68.8	73.9
U1	16:22:51	0.4	-0.2	4.7	2.8	13.4	13.8	25.6	26.9	37.9	37.5	52.7	52.9	62.5	66.8
U2	16:26:58	0.4	-0.2	4.6	2.7	12.5	13.7	25.1	26.0	36.0	36.4	51.4	51.6	60.4	64.1
U3	16:31:25	0.3	-0.2	3.5	2.2	10.5	11.1	21.6	23.3	33.2	32.7	48.6	43.9	56.9	54.4
U4	16:35:24	0.1	-0.2	2.1	1.8	9.9	10.0	18.3	19.5	26.1	27.1	41.0	35.6	48.6	44.2
U5	16:39:28	-0.0	-0.2	1.1	2.2	6.7	8.8	12.9	15.6	20.1	21.2	32.8	27.8	38.5	34.5
U6	16:43:41	-0.2	-0.3	0.7	0.8	4.1	6.8	8.7	10.2	12.6	13.7	21.1	16.9	24.8	21.9
U7	16:47:34	-0.6	-0.3	0.3	0.5	3.3	4.9	6.3	6.4	6.5	6.1	11.3	7.8	13.2	11.2
U8	16:51:18	-0.7	-0.2	-0.3	-0.2	-0.1	3.3	0.9	1.0	-0.3	-1.2	-2.1	-4.3	-2.4	-2.2
U8A	16:55:44	-0.5	-0.3	-0.2	-0.1	-0.2	3.4	0.9	1.0	-0.2	-1.2	-2.2	-4.3	-2.6	-2.2
U9	17:15:00	-0.7	-0.2	-0.4	0.1	-0.2	3.7	0.7	1.1	-0.1	-1.0	-1.4	-3.9	-1.0	-1.2
U9	17:30:00	-0.4	-0.2	-0.2	0.3	-0.2	4.0	0.6	1.4	-0.1	-1.1	-1.0	-3.7	-0.3	-0.6
U9	17:45:00	-0.4	-0.1	-0.2	0.4	-0.0	4.1	0.6	1.6	-0.2	-1.0	-0.7	-3.4	0.2	-0.5
U9	18:00:00	-0.0	-0.2	-0.1	0.5	0.0	4.1	0.6	1.8	-0.5	-1.0	-0.6	-3.1	0.5	-0.0
U9	18:15:00	-0.1	-0.1	0.0	0.5	0.1	4.2	0.5	2.0	-0.4	-1.1	-0.4	-2.9	0.7	0.2

Table F.26 continued

VIBRATING WIRE CALCULATED STRAIN (4 MINUTE READINGS)

VLW 3 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 1	VW STRN MICRO STRAIN 2	VW STRN MICRO STRAIN 31	VW STRN MICRO STRAIN 32	VW STRN MICRO STRAIN 33	VW STRN MICRO STRAIN 34	VW STRN MICRO STRAIN 19	VW STRN MICRO STRAIN 20	VW STRN MICRO STRAIN 9	VW STRN MICRO STRAIN 10	VW STRN MICRO STRAIN 11	VW STRN MICRO STRAIN 12	VW STRN MICRO STRAIN 39	VW STRN MICRO STRAIN 40
L0	14:27:26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
L1	14:32:30	0.1	0.0	-0.2	0.1	0.1	0.1	0.3	0.3	-0.1	0.5	0.3	0.9	1.2	1.9
L2	14:37:40	0.1	0.0	-0.2	0.2	0.5	0.2	0.7	0.8	0.1	2.0	0.6	2.1	1.8	4.8
L3	14:42:38	0.1	0.0	0.2	0.6	1.9	1.2	2.1	1.8	2.0	3.2	2.2	7.1	1.9	10.3
L4	14:47:45	0.2	0.0	0.2	0.8	2.8	2.6	4.2	4.6	4.3	7.0	6.0	10.9	8.2	16.2
L5	14:52:46	0.2	0.0	0.5	2.1	4.9	4.2	6.3	6.8	10.3	8.9	10.7	15.9	13.4	22.2
L6	14:57:44	0.3	0.0	1.1	1.8	6.0	4.9	8.3	9.7	10.9	12.9	15.5	20.8	19.7	28.2
L7	15:02:40	0.3	0.0	1.7	1.9	7.9	6.4	10.2	11.4	14.8	16.0	20.4	24.6	24.7	34.0
L8	15:07:34	0.3	-0.1	2.4	2.2	9.9	7.2	13.3	14.3	17.2	19.3	25.1	30.6	31.1	39.9
L9	15:12:22	0.4	-0.1	3.1	2.4	8.6	8.7	15.9	16.4	20.4	23.4	30.1	35.6	36.8	46.0
L10	15:17:08	0.3	-0.1	3.2	2.6	9.7	9.1	16.5	17.2	22.3	24.3	32.1	37.9	38.8	49.0
L11	15:21:52	0.3	-0.1	3.5	2.6	10.4	9.3	18.2	18.4	25.6	25.8	34.7	39.8	42.4	52.0
L12	15:26:48	0.3	-0.1	3.7	2.7	10.8	9.5	18.1	19.6	25.9	28.1	36.8	43.0	44.7	54.8
L13	15:31:44	0.4	-0.1	3.9	2.9	11.4	10.4	20.6	20.6	28.1	29.9	39.9	45.3	48.6	57.6
L14	15:37:11	0.4	-0.1	4.0	3.0	11.9	11.0	21.0	20.9	29.5	31.2	42.0	47.2	51.1	60.7
L15	15:42:20	0.5	-0.1	4.2	3.1	12.5	11.3	22.0	23.3	31.9	33.1	45.0	49.9	54.2	63.4
L16	15:47:13	0.4	-0.1	4.4	3.1	13.2	11.2	23.6	23.7	33.4	35.2	47.4	51.9	56.7	66.6
L17	15:52:10	0.4	-0.1	4.4	3.2	14.8	11.1	23.5	24.9	34.7	36.5	50.2	54.4	59.6	68.7
L18	15:57:40	0.4	-0.1	4.5	3.3	15.7	12.5	25.5	25.9	37.5	38.3	52.2	56.2	62.6	71.0
L19	16:02:32	0.3	-0.1	4.6	3.3	14.1	13.2	25.9	27.1	38.5	40.0	55.2	58.1	65.2	73.6
L20	16:07:35	0.3	-0.1	4.8	3.4	12.9	13.8	28.5	28.8	41.0	42.2	59.6	60.6	69.7	75.9
L21	16:12:37	0.4	-0.1	5.0	3.4	13.8	14.8	30.0	31.1	43.6	44.4	62.2	63.9	74.9	79.9
L22	16:15:46	0.5	-0.2	5.3	3.5	15.5	16.8	32.7	33.0	45.0	46.3	65.1	63.6	72.8	77.1
L22A	16:16:16	0.5	-0.1	5.2	3.3	13.6	15.7	27.6	30.0	41.1	41.7	58.0	58.6	68.8	74.1
L22B	16:17:47	0.4	-0.1	5.1	3.2	13.1	15.4	27.1	29.7	40.7	41.0	57.6	58.4	68.8	73.9
U1	16:22:51	0.4	-0.2	4.7	2.8	13.4	13.8	25.6	26.9	37.9	37.5	52.7	52.9	62.5	66.8
U2	16:26:58	0.4	-0.2	4.6	2.7	12.5	13.7	25.1	26.0	36.0	36.4	51.4	51.6	60.4	64.1
U3	16:31:25	0.3	-0.2	3.5	2.2	10.5	11.1	21.6	23.3	33.2	32.7	48.6	43.9	56.9	54.4
U4	16:35:24	0.1	-0.2	2.1	1.8	9.9	10.0	18.3	19.5	26.1	27.1	41.0	35.6	48.6	44.2
U5	16:39:28	-0.0	-0.2	1.1	2.2	6.7	8.8	12.9	15.6	20.1	21.2	32.8	27.8	38.5	34.5
U6	16:43:41	-0.2	-0.3	0.7	0.8	4.1	6.8	8.7	10.2	12.6	13.7	21.1	16.9	24.8	21.9
U7	16:47:34	-0.6	-0.3	0.3	0.5	3.3	4.9	6.3	6.4	6.5	6.1	11.3	7.8	13.2	11.2
U8	16:51:18	-0.7	-0.2	-0.3	-0.2	-0.1	3.3	0.9	1.0	-0.3	-1.2	-2.1	-4.3	-2.4	-2.2
U8A	16:55:44	-0.5	-0.3	-0.2	-0.1	-0.2	3.4	0.9	1.0	-0.2	-1.2	-2.2	-4.3	-2.6	-2.2

Table F.26 continued

AVERAGE STRAIN AT EACH GAGE LEVEL, INTEGRATED PILE COMPRESSION & COMPARISON WITH TELLTALE MEASUREMENT (4 MINUTE READINGS)

VLW 3 LOAD NUMBER	AVG VW MICRO STRAIN SURFACE	AVG VW MICRO STRAIN 1+2	AVG VW MICRO STRAIN 31+32	AVG VW MICRO STRAIN 33+34	AVG VW MICRO STRAIN 19+20	AVG VW MICRO STRAIN 9+10	AVG VW MICRO STRAIN 11+12	AVG VW MICRO STRAIN 39+40	EST'D. MICRO STRAIN CELL TOP	PILE COMPRESSION SG MSMT. INCHES	TT MSMT. INCHES	ABS.DIFF. SG-TT INCHES
L0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0000	0.0000	0.0000
L1	0.0	0.0	-0.1	0.1	0.3	0.2	0.6	1.5	8.1	0.0001	0.0000	0.0001
L2	0.0	0.1	0.0	0.4	0.7	1.1	1.3	3.3	12.0	0.0004	0.0001	0.0003
L3	0.0	0.1	0.4	1.5	1.9	2.6	4.7	6.1	18.0	0.0011	0.0007	0.0005
L4	0.0	0.1	0.5	2.7	4.4	5.6	8.4	12.2	24.0	0.0022	0.0016	0.0005
L5	0.0	0.1	1.3	4.5	6.5	9.6	13.3	17.8	30.0	0.0036	0.0027	0.0009
L6	0.0	0.2	1.4	5.5	9.0	11.9	18.2	23.9	36.0	0.0046	0.0037	0.0009
L7	0.0	0.2	1.8	7.2	10.8	15.4	22.5	29.3	41.8	0.0058	0.0049	0.0009
L8	0.0	0.1	2.3	8.5	13.8	18.3	27.8	35.5	47.8	0.0070	0.0057	0.0013
L9	0.0	0.2	2.8	8.7	16.1	21.9	32.8	41.4	53.7	0.0081	0.0068	0.0014
L10	0.0	0.1	2.9	9.4	16.9	23.3	35.0	43.9	56.6	0.0086	0.0075	0.0011
L11	0.0	0.1	3.1	9.9	18.3	25.7	37.3	47.2	59.6	0.0093	0.0078	0.0015
L12	0.0	0.1	3.2	10.2	18.8	27.0	39.9	49.8	62.4	0.0097	0.0084	0.0014
L13	0.0	0.2	3.4	10.9	20.6	29.0	42.6	53.1	65.3	0.0104	0.0086	0.0018
L14	0.0	0.2	3.5	11.5	21.0	30.4	44.6	55.9	68.3	0.0109	0.0095	0.0014
L15	0.0	0.2	3.7	11.9	22.7	32.5	47.4	58.8	71.3	0.0116	0.0097	0.0019
L16	0.0	0.1	3.7	12.2	23.6	34.3	49.6	61.6	74.1	0.0121	0.0105	0.0016
L17	0.0	0.1	3.8	12.9	24.2	35.6	52.3	64.2	77.1	0.0126	0.0107	0.0019
L18	0.0	0.1	3.9	14.1	25.7	37.9	54.2	66.8	80.0	0.0133	0.0114	0.0019
L19	0.0	0.1	4.0	13.7	26.5	39.3	56.7	69.4	83.0	0.0136	0.0118	0.0019
L20	0.0	0.1	4.1	13.4	28.6	41.6	60.1	72.8	86.0	0.0143	0.0124	0.0019
L21	0.0	0.2	4.2	14.3	30.5	44.0	63.1	77.4	88.9	0.0151	0.0133	0.0019
L22	0.0	0.2	4.4	16.1	32.8	45.7	64.4	74.9	91.8	0.0159	0.0138	0.0021
L22A	0.0	0.2	4.3	14.7	28.8	41.4	58.3	71.4	82.1	0.0144	0.0131	0.0013
L22B	0.0	0.1	4.2	14.3	28.4	40.8	58.0	71.3	82.4	0.0142	0.0128	0.0014
U1	0.0	0.1	3.7	13.6	26.2	37.7	52.8	64.6	68.5	0.0131	0.0120	0.0011
U2	0.0	0.1	3.6	13.1	25.6	36.2	51.5	62.2	64.3	0.0127	0.0117	0.0010
U3	0.0	0.0	2.8	10.8	22.4	32.9	46.2	55.7	54.2	0.0111	0.0103	0.0009
U4	0.0	-0.0	2.0	10.0	18.9	26.6	38.3	46.4	44.6	0.0093	0.0082	0.0011
U5	0.0	-0.1	1.6	7.7	14.3	20.6	30.3	36.5	35.5	0.0072	0.0065	0.0006
U6	0.0	-0.2	0.8	5.4	9.5	13.2	19.0	23.4	23.3	0.0046	0.0042	0.0004
U7	0.0	-0.4	0.4	4.1	6.4	6.3	9.6	12.2	0.0	0.0026	0.0023	0.0003
U8	0.0	-0.5	-0.2	1.6	0.9	-0.7	-3.2	-2.3	0.0	-0.0000	0.0004	-0.0004
U8A	0.0	-0.4	-0.2	1.6	0.9	-0.7	-3.2	-2.4	0.0	-0.0000	0.0003	-0.0004
ELEV. FT	4.57	-1.06	-11.81	-27.81	-35.81	-44.81	-52.81	-54.31	-54.81			

Table F.26 continued

VIBRATING WIRE CALCULATED AVERAGE LOADS (4 MINUTE READINGS)

LA = 1.50 ft ACA = 317.115 si
LB = 0.50 ft ACB = 313.155 si
B = 18.00 in ASA = 3.538 si
ES = 27500.0 ksi ASB = 7.498 si

VLW 3 LOAD NUMBER	AVG VW LOAD TONS SURFACE	AVG VW LOAD TONS 1+2	AVG VW LOAD TONS 31+32	AVG VW LOAD TONS 33+34	AVG VW LOAD TONS 19+20	AVG VW LOAD TONS 9+10	AVG VW LOAD TONS 11+12	AVG VW LOAD TONS 39+40	OSTERBERG LOAD TONS BOTTOM	INCR. PILE MODULUS KSI	CALC. PILE A MODULUS KSI	CALC. PILE B MODULUS KSI
L0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0		5169.0	5444.3
L1	0.0	0.04	-0.04	0.10	0.26	0.15	0.49	1.34	7.2	29184.2	5169.0	5444.3
L2	0.0	0.06	0.00	0.31	0.62	0.89	1.17	2.89	10.6	11993.0	5169.0	5444.3
L3	0.0	0.07	0.30	1.29	1.63	2.18	4.12	5.39	15.9	11549.1	5169.0	5444.3
L4	0.0	0.09	0.40	2.27	3.67	4.72	7.43	10.76	21.1	5325.7	5169.0	5444.3
L5	0.0	0.10	1.11	3.80	5.48	8.03	11.74	15.70	26.5	5859.7	5169.0	5444.3
L6	0.0	0.14	1.17	4.60	7.54	9.98	16.03	21.12	31.8	5318.6	5169.0	5444.3
L7	0.0	0.13	1.50	6.00	9.05	12.88	19.84	25.88	36.8	5806.8	5169.0	5444.3
L8	0.0	0.10	1.91	7.15	11.56	15.31	24.56	31.31	42.2	5367.5	5169.0	5444.3
L9	0.0	0.16	2.30	7.26	13.52	18.35	28.96	36.51	47.3	5381.4	5169.0	5444.3
L10	0.0	0.08	2.42	7.87	14.14	19.54	30.87	38.73	49.9	6414.9	5169.0	5444.3
L11	0.0	0.08	2.56	8.26	15.34	21.49	32.88	41.64	52.6	4879.0	5169.0	5444.3
L12	0.0	0.11	2.67	8.52	15.77	22.62	35.17	43.89	55.1	6089.1	5169.0	5444.3
L13	0.0	0.14	2.81	9.11	17.27	24.28	37.58	46.87	57.6	4581.9	5169.0	5444.3
L14	0.0	0.14	2.93	9.59	17.56	25.42	39.33	49.28	60.3	6094.2	5169.0	5444.3
L15	0.0	0.17	3.06	9.95	18.98	27.23	41.83	51.88	62.9	5458.6	5169.0	5444.3
L16	0.0	0.11	3.12	10.21	19.80	28.70	43.79	54.37	65.4	5475.6	5169.0	5444.3
L17	0.0	0.11	3.18	10.84	20.27	29.80	46.13	56.58	68.0	6385.4	5169.0	5444.3
L18	0.0	0.10	3.27	11.78	21.52	31.72	47.81	58.91	70.6	6071.6	5169.0	5444.3
L19	0.0	0.09	3.31	11.44	22.18	32.87	49.98	61.25	73.2	6086.4	5169.0	5444.3
L20	0.0	0.10	3.44	11.19	23.98	34.80	53.00	64.22	75.8	4822.0	5169.0	5444.3
L21	0.0	0.13	3.53	11.96	25.57	36.84	55.63	68.24	78.4	3548.3	5169.0	5444.3
L22	0.0	0.13	3.70	13.50	27.49	38.23	56.77	66.07	81.0		5169.0	5444.3
L22A	0.0	0.13	3.58	12.27	24.13	34.63	51.44	63.01	72.4		5169.0	5444.3
L22B	0.0	0.12	3.48	11.97	23.79	34.20	51.16	62.92	72.7		5169.0	5444.3
U1	0.0	0.10	3.13	11.36	21.97	31.55	46.56	57.01	60.4		5169.0	5444.3
U2	0.0	0.09	3.04	10.98	21.40	30.30	45.42	54.88	56.7		5169.0	5444.3
U3	0.0	0.03	2.39	9.04	18.78	27.59	40.77	49.10	47.8		5169.0	5444.3
U4	0.0	-0.04	1.63	8.37	15.79	22.29	33.78	40.95	39.3		5169.0	5444.3
U5	0.0	-0.11	1.36	6.47	11.94	17.28	26.71	32.22	31.3		5169.0	5444.3
U6	0.0	-0.20	0.64	4.56	7.93	11.04	16.77	20.61	20.5		5169.0	5444.3
U7	0.0	-0.35	0.31	3.43	5.32	5.27	8.42	10.73	0.0		5169.0	5444.3
U8	0.0	-0.40	-0.21	1.31	0.79	-0.62	-2.83	-2.02	0.0		5169.0	5444.3
U8A	0.0	-0.34	-0.14	1.31	0.79	-0.57	-2.83	-2.09	0.0		5169.0	5444.3

ELEV. FT	4.57	-1.06	-11.81	-27.81	-35.81	-44.81	-52.81	-54.31	-54.81	4974.4 KSI = CONCRETE MODULUS

Table F.26 continued

INTEGRATED MOVEMENT AT VW STRAIN GAGE (4 MINUTE READINGS)

VLW 3 LOAD NUMBER	VW MOVEMENT INCHES SURFACE	VW MOVEMENT INCHES 1+2	VW MOVEMENT INCHES 31+32	VW MOVEMENT INCHES 33+34	VW MOVEMENT INCHES 19+20	VW MOVEMENT INCHES 9+10	VW MOVEMENT INCHES 11+12	VW MOVEMENT INCHES 39+40	VW MOVEMENT INCHES CELL TOP
L0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L1	0.0049	0.0049	0.0049	0.0049	0.0049	0.0049	0.0050	0.0050	0.0050
L2	0.0047	0.0047	0.0047	0.0047	0.0048	0.0049	0.0050	0.0051	0.0051
L3	0.0045	0.0045	0.0045	0.0047	0.0049	0.0051	0.0055	0.0056	0.0057
L4	0.0095	0.0095	0.0095	0.0098	0.0101	0.0107	0.0114	0.0115	0.0117
L5	0.0141	0.0141	0.0142	0.0147	0.0153	0.0161	0.0172	0.0175	0.0177
L6	0.0141	0.0141	0.0142	0.0149	0.0156	0.0167	0.0181	0.0185	0.0187
L7	0.0191	0.0191	0.0192	0.0201	0.0209	0.0224	0.0242	0.0246	0.0249
L8	0.0187	0.0187	0.0188	0.0199	0.0209	0.0227	0.0249	0.0255	0.0257
L9	0.0286	0.0286	0.0288	0.0299	0.0311	0.0332	0.0358	0.0365	0.0368
L10	0.0339	0.0339	0.0341	0.0353	0.0365	0.0387	0.0415	0.0422	0.0425
L11	0.0385	0.0385	0.0387	0.0399	0.0413	0.0436	0.0467	0.0474	0.0478
L12	0.0386	0.0386	0.0388	0.0401	0.0415	0.0440	0.0472	0.0480	0.0484
L13	0.0382	0.0382	0.0384	0.0398	0.0413	0.0439	0.0474	0.0482	0.0486
L14	0.0436	0.0436	0.0438	0.0452	0.0468	0.0496	0.0532	0.0541	0.0545
L15	0.0531	0.0531	0.0534	0.0549	0.0565	0.0595	0.0634	0.0643	0.0647
L16	0.0584	0.0584	0.0586	0.0602	0.0619	0.0650	0.0690	0.0700	0.0705
L17	0.0631	0.0631	0.0634	0.0650	0.0668	0.0700	0.0742	0.0753	0.0757
L18	0.0731	0.0731	0.0734	0.0751	0.0770	0.0805	0.0849	0.0860	0.0864
L19	0.0781	0.0781	0.0784	0.0801	0.0820	0.0856	0.0902	0.0913	0.0918
L20	0.0931	0.0931	0.0934	0.0950	0.0971	0.1008	0.1057	0.1069	0.1074
L21	0.1281	0.1281	0.1284	0.1302	0.1323	0.1363	0.1415	0.1428	0.1433
L22	0.2379	0.2379	0.2382	0.2402	0.2425	0.2468	0.2520	0.2533	0.2538
L22A	0.3037	0.3037	0.3039	0.3058	0.3078	0.3116	0.3164	0.3176	0.3181
L22B	0.3086	0.3086	0.3089	0.3106	0.3127	0.3164	0.3212	0.3223	0.3228
U1	0.3139	0.3139	0.3141	0.3158	0.3177	0.3212	0.3255	0.3266	0.3269
U2	0.3140	0.3140	0.3142	0.3158	0.3177	0.3210	0.3252	0.3263	0.3266
U3	0.3091	0.3091	0.3093	0.3106	0.3122	0.3152	0.3190	0.3199	0.3202
U4	0.3039	0.3039	0.3041	0.3052	0.3066	0.3090	0.3122	0.3129	0.3132
U5	0.2944	0.2944	0.2945	0.2953	0.2964	0.2983	0.3007	0.3013	0.3015
U6	0.2746	0.2746	0.2746	0.2752	0.2759	0.2771	0.2787	0.2791	0.2792
U7	0.2547	0.2547	0.2547	0.2551	0.2556	0.2563	0.2571	0.2573	0.2573
U8	0.2404	0.2404	0.2404	0.2405	0.2406	0.2406	0.2405	0.2404	0.2404
U8A	0.2304	0.2304	0.2303	0.2305	0.2306	0.2306	0.2304	0.2304	0.2304

Table F.26 continued

INTEGRATED MOVEMENT AT SEGMENT CL (4 MINUTE READINGS)

VLW 3 LOAD NUMBER CL.ELEV.	AVG VW MOVEMENT INCHES 1.76	AVG VW MOVEMENT INCHES -6.44	AVG VW MOVEMENT INCHES -19.81	AVG VW MOVEMENT INCHES -31.81	AVG VW MOVEMENT INCHES -40.31	AVG VW MOVEMENT INCHES -48.81	AVG VW MOVEMENT INCHES -53.56
L0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L1	0.0049	0.0049	0.0049	0.0049	0.0049	0.0049	0.0050
L2	0.0047	0.0047	0.0047	0.0048	0.0048	0.0050	0.0050
L3	0.0045	0.0045	0.0046	0.0048	0.0050	0.0053	0.0055
L4	0.0095	0.0095	0.0096	0.0100	0.0104	0.0110	0.0114
L5	0.0141	0.0141	0.0144	0.0150	0.0157	0.0167	0.0174
L6	0.0141	0.0142	0.0145	0.0152	0.0161	0.0174	0.0183
L7	0.0191	0.0192	0.0196	0.0205	0.0216	0.0233	0.0244
L8	0.0187	0.0187	0.0193	0.0204	0.0218	0.0238	0.0252
L9	0.0286	0.0287	0.0294	0.0305	0.0321	0.0345	0.0361
L10	0.0339	0.0340	0.0347	0.0359	0.0376	0.0401	0.0418
L11	0.0385	0.0386	0.0393	0.0406	0.0425	0.0452	0.0471
L12	0.0386	0.0387	0.0395	0.0408	0.0428	0.0456	0.0476
L13	0.0382	0.0383	0.0391	0.0405	0.0426	0.0457	0.0478
L14	0.0436	0.0437	0.0445	0.0460	0.0482	0.0514	0.0536
L15	0.0531	0.0533	0.0541	0.0557	0.0580	0.0614	0.0638
L16	0.0584	0.0585	0.0594	0.0610	0.0634	0.0670	0.0695
L17	0.0631	0.0633	0.0642	0.0659	0.0684	0.0721	0.0748
L18	0.0731	0.0733	0.0742	0.0761	0.0787	0.0827	0.0854
L19	0.0781	0.0783	0.0792	0.0810	0.0838	0.0879	0.0907
L20	0.0931	0.0932	0.0942	0.0961	0.0990	0.1033	0.1063
L21	0.1281	0.1283	0.1293	0.1312	0.1343	0.1389	0.1421
L22	0.2379	0.2381	0.2392	0.2414	0.2446	0.2494	0.2527
L22A	0.3037	0.3038	0.3049	0.3068	0.3097	0.3140	0.3170
L22B	0.3086	0.3087	0.3098	0.3117	0.3146	0.3188	0.3218
U1	0.3139	0.3140	0.3150	0.3167	0.3194	0.3233	0.3260
U2	0.3140	0.3141	0.3150	0.3168	0.3194	0.3231	0.3258
U3	0.3091	0.3092	0.3100	0.3114	0.3137	0.3171	0.3195
U4	0.3039	0.3040	0.3046	0.3059	0.3078	0.3106	0.3125
U5	0.2944	0.2944	0.2949	0.2959	0.2973	0.2995	0.3010
U6	0.2746	0.2746	0.2749	0.2756	0.2765	0.2779	0.2789
U7	0.2547	0.2547	0.2549	0.2554	0.2560	0.2567	0.2572
U8	0.2404	0.2404	0.2405	0.2406	0.2406	0.2406	0.2404
U8A	0.2304	0.2303	0.2304	0.2305	0.2306	0.2305	0.2304

Table F.26 continued

AVERAGE SEGMENT SHEAR STRESS (4 MINUTE READINGS)

VLW 3 LOAD NUMBER CL.ELEV.	AVG VW SHEAR TSF 1.76	AVG VW SHEAR TSF -6.44	AVG VW SHEAR TSF -19.81	AVG VW SHEAR TSF -31.81	AVG VW SHEAR TSF -40.31	AVG VW SHEAR TSF -48.81	AVG VW SHEAR TSF -53.56
L0	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016
L1	-0.015	-0.018	-0.015	-0.013	-0.018	-0.009	0.078
L2	-0.015	-0.017	-0.013	-0.010	-0.011	-0.011	0.175
L3	-0.014	-0.013	-0.006	-0.009	-0.006	0.024	0.125
L4	-0.014	-0.012	0.003	0.013	0.003	0.040	0.354
L5	-0.014	-0.001	0.012	0.019	0.031	0.061	0.425
L6	-0.012	-0.000	0.019	0.045	0.029	0.109	0.550
L7	-0.013	0.005	0.030	0.047	0.054	0.128	0.657
L8	-0.014	0.012	0.038	0.075	0.053	0.176	0.735
L9	-0.012	0.017	0.035	0.114	0.073	0.204	0.824
L10	-0.014	0.020	0.040	0.114	0.084	0.219	0.858
L11	-0.014	0.022	0.043	0.131	0.097	0.221	0.959
L12	-0.013	0.023	0.045	0.135	0.110	0.245	0.954
L13	-0.012	0.025	0.049	0.154	0.113	0.261	1.019
L14	-0.012	0.027	0.053	0.149	0.129	0.273	1.092
L15	-0.011	0.028	0.055	0.172	0.136	0.288	1.102
L16	-0.013	0.030	0.057	0.183	0.148	0.298	1.162
L17	-0.013	0.031	0.063	0.180	0.160	0.324	1.148
L18	-0.013	0.033	0.072	0.186	0.173	0.319	1.220
L19	-0.014	0.034	0.068	0.207	0.182	0.340	1.238
L20	-0.013	0.035	0.064	0.250	0.184	0.363	1.233
L21	-0.013	0.036	0.071	0.267	0.192	0.375	1.388
L22	-0.012	0.039	0.086	0.275	0.182	0.370	1.019
L22A	-0.012	0.037	0.074	0.231	0.178	0.334	1.272
L22B	-0.013	0.036	0.072	0.230	0.176	0.337	1.293
U1	-0.013	0.030	0.069	0.205	0.161	0.296	1.147
U2	-0.014	0.029	0.066	0.201	0.148	0.298	1.036
U3	-0.015	0.020	0.053	0.186	0.147	0.258	0.910
U4	-0.018	0.009	0.054	0.138	0.104	0.223	0.782
U5	-0.020	0.006	0.037	0.098	0.082	0.180	0.597
U6	-0.022	-0.003	0.024	0.054	0.041	0.103	0.411
U7	-0.027	-0.006	0.016	0.023	-0.017	0.049	0.240
U8	-0.028	-0.013	-0.001	-0.027	-0.043	-0.062	0.074
U8A	-0.027	-0.013	-0.001	-0.027	-0.042	-0.063	0.066

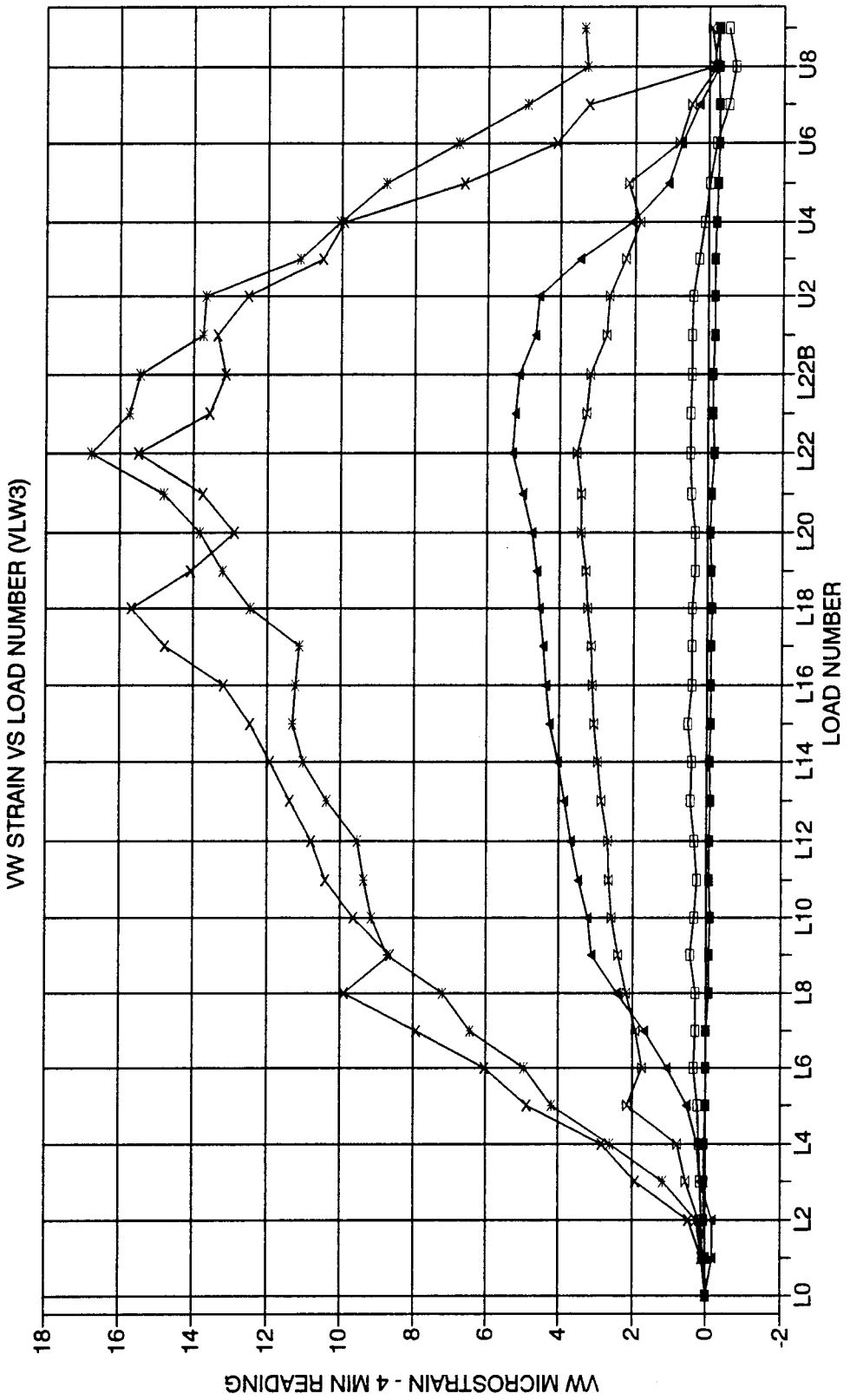

Figure F.137 Strain at Pile Top: Vilano West Load Test 3

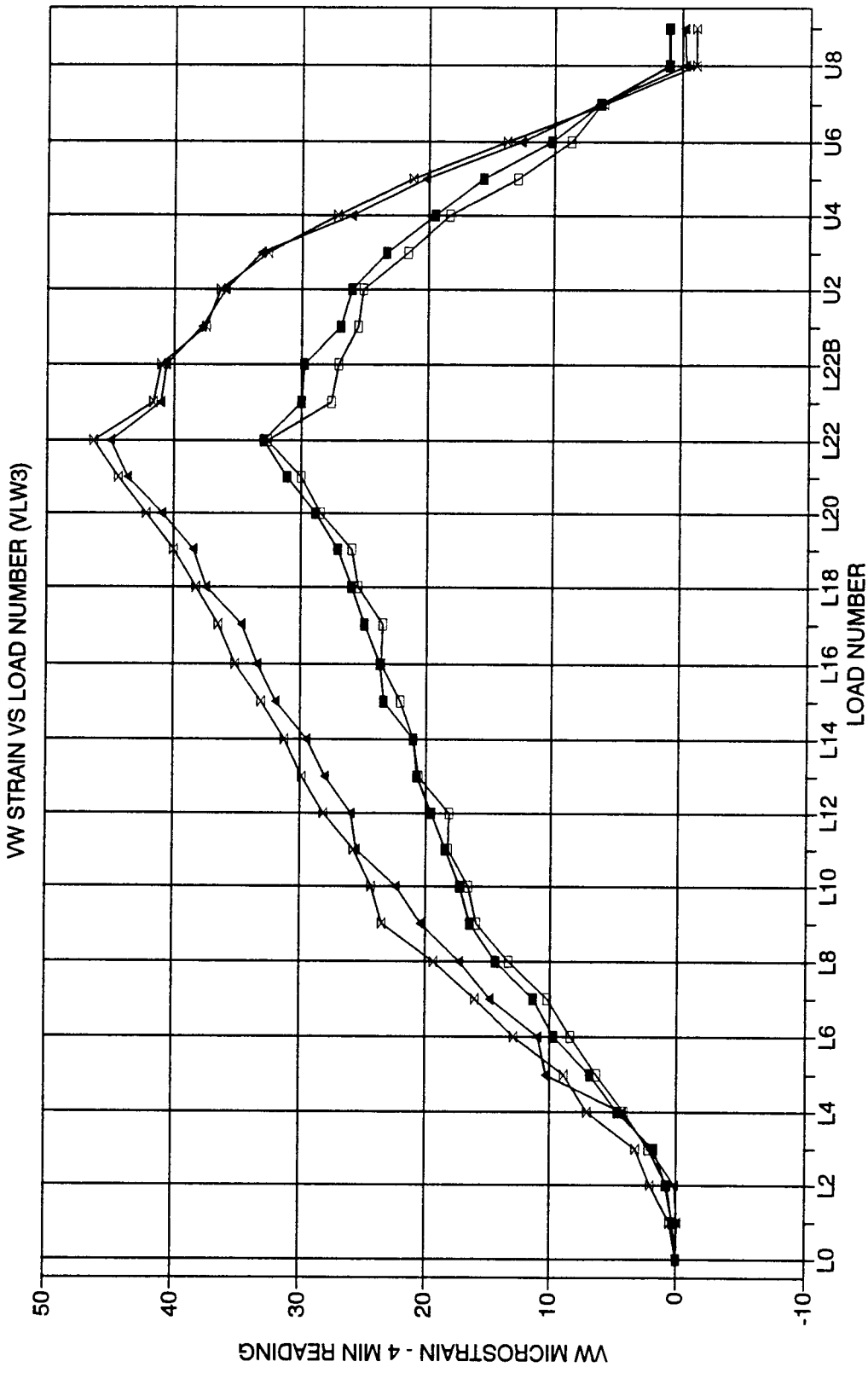

Figure F.138 Strain at Pile Middle: Vilano West Load Test 3

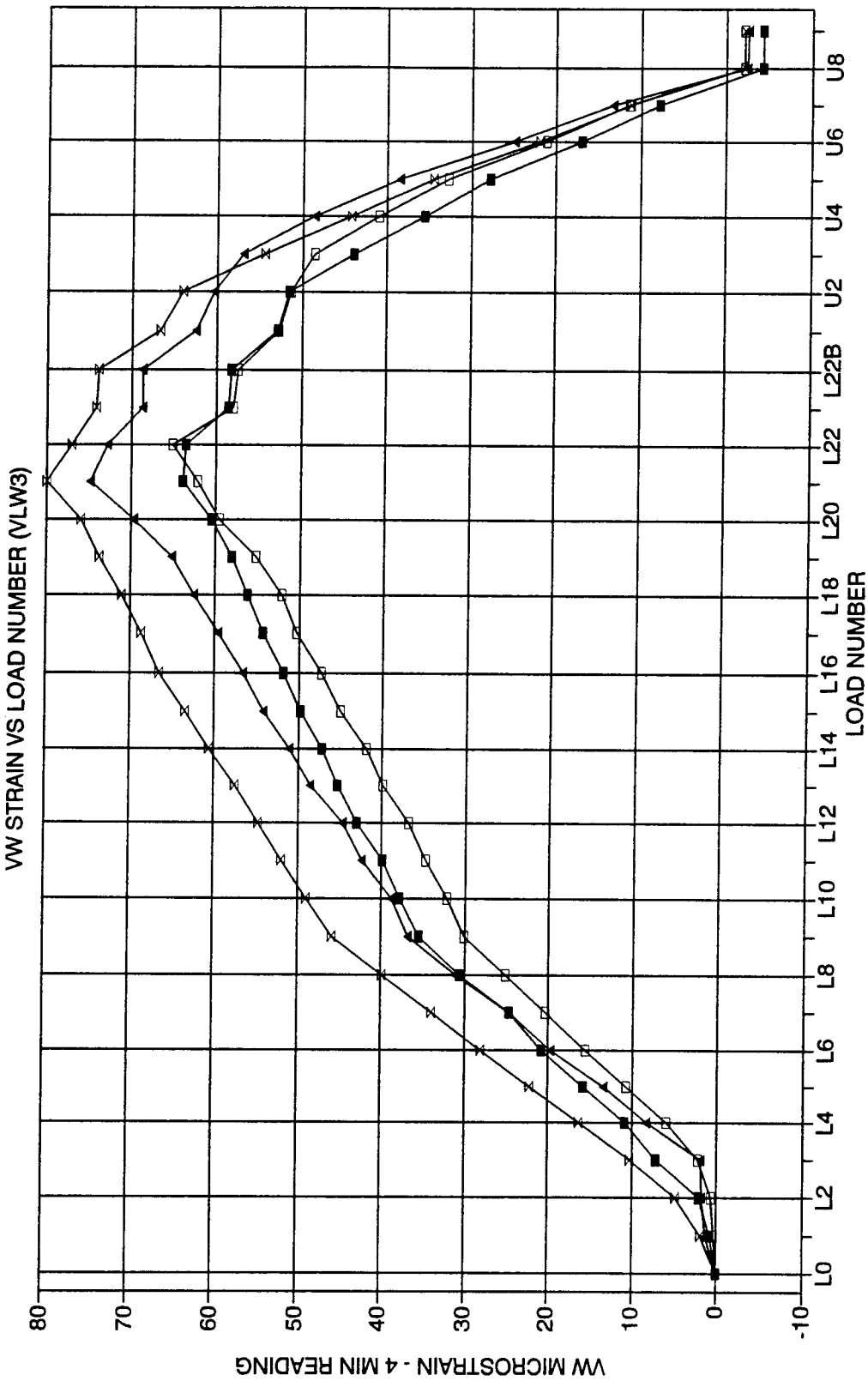

Figure F.139 Strain at Pile Bottom: Vilano West Load Test 3

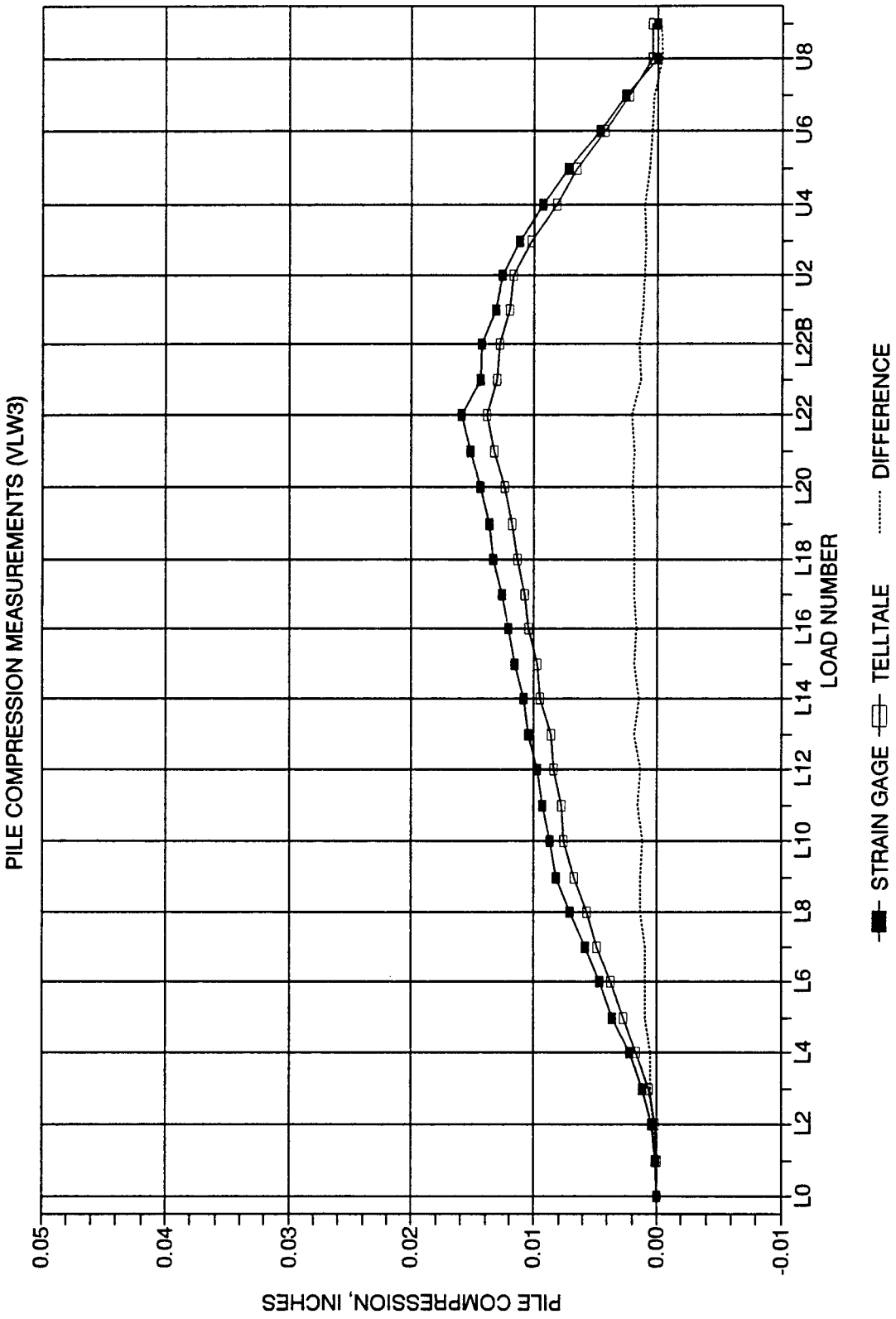

Figure F.140 Pile Compression Measurements: Vilano West Load Test 3

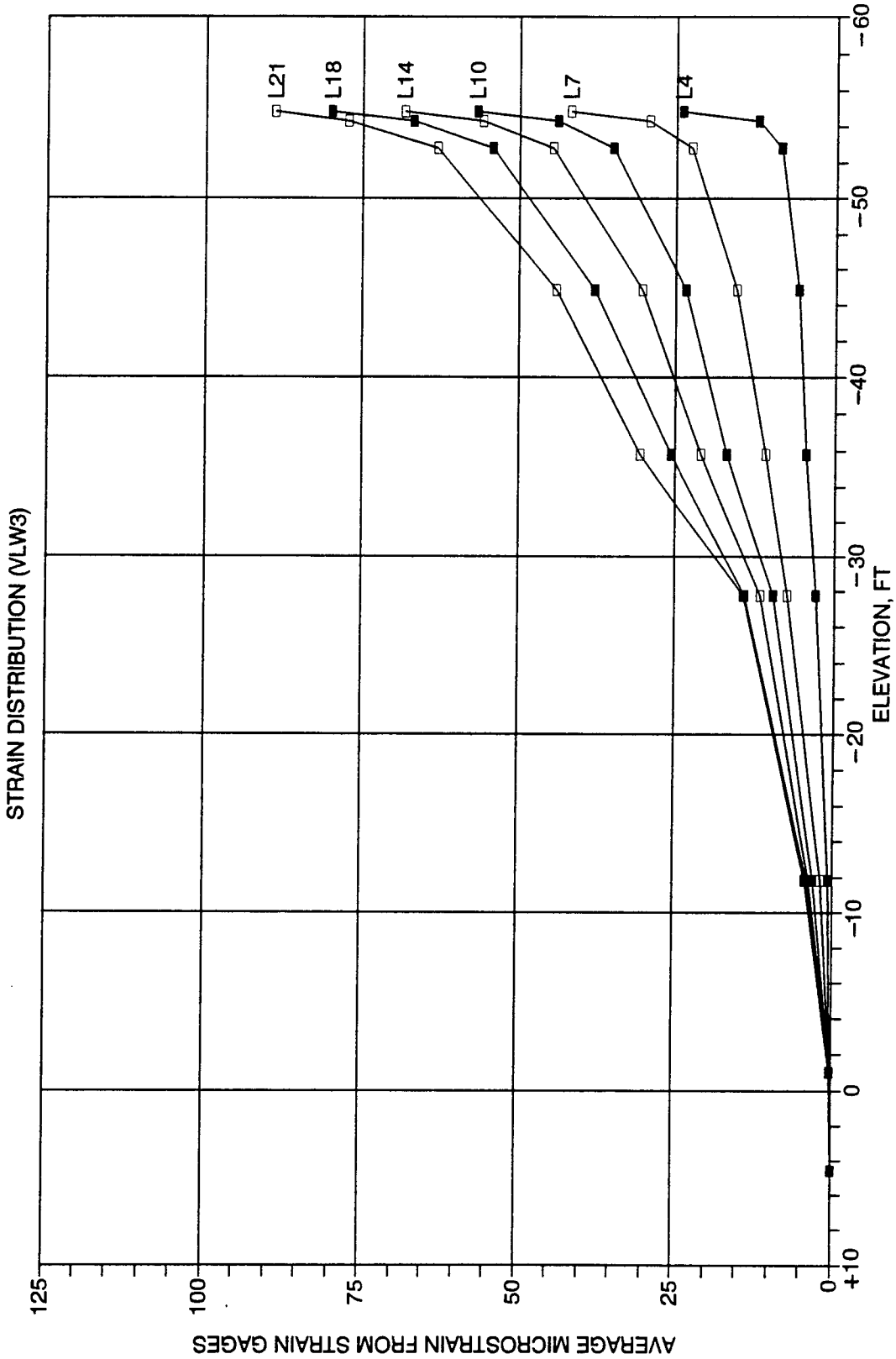

Figure F.141 Pile Strain Distribution: Vilano West Load Test 3

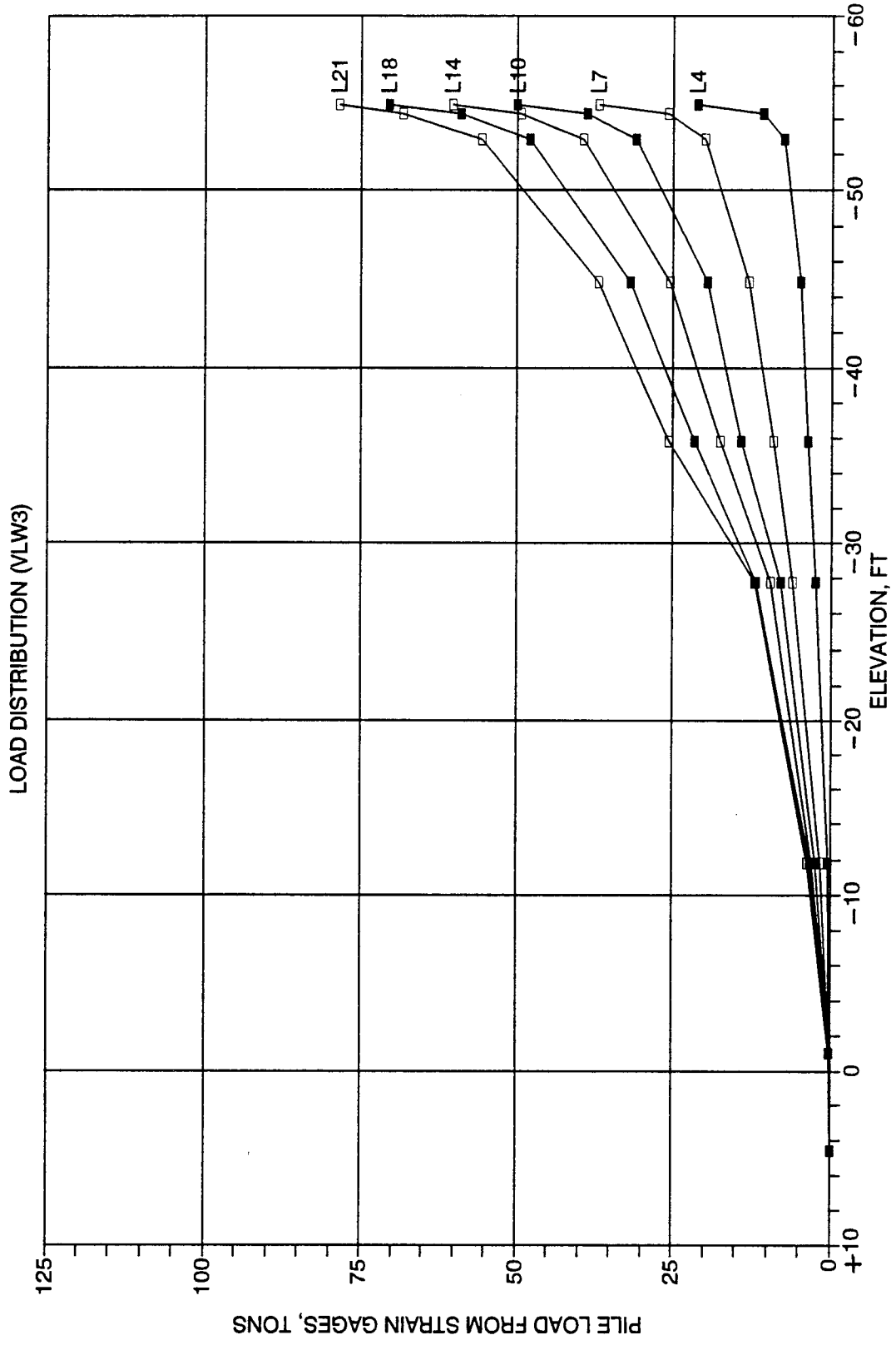

Figure F.142 Pile Load Distribution: Vilano West Load Test 3

Table F.27 Strain Analyses: Vilano West Load Test 4

VIBRATING WIRE INSTRUMENT READINGS - STRAIN

VLW 4 LOAD NUMBER	TIME	VW STRN FREQ^2 KHZ^2 1	VW STRN FREQ^2 KHZ^2 2	VW STRN FREQ^2 KHZ^2 31	VW STRN FREQ^2 KHZ^2 32	VW STRN FREQ^2 KHZ^2 33	VW STRN FREQ^2 KHZ^2 34	VW STRN FREQ^2 KHZ^2 19	VW STRN FREQ^2 KHZ^2 20	VW STRN FREQ^2 KHZ^2 9	VW STRN FREQ KHZ^2 10	VW STRN FREQ KHZ^2 11	VW STRN FREQ KHZ^2 12	VW STRN FREQ KHZ^2 39	VW STRN FREQ KHZ^2 40
L0	13:46:09	-99999	0.69705	-99999	0.66873	-99999	0.60548	-99999	0.68291	0.65936	0.65402	0.74415	0.76547	0.84403	0.77734
L0	13:57:09	-99999	0.69703	-99999	0.66875	-99999	0.60542	-99999	0.68293	0.65937	0.65394	0.74418	0.76546	0.84404	0.77735
L0	14:06:17	-99999	0.69701	-99999	0.66880	-99999	0.60538	-99999	0.68291	0.65937	0.65399	0.74417	0.76546	0.84405	0.77735
L0	14:06:57	-99999	0.69703	-99999	0.66882	-99999	0.60539	-99999	0.68290	0.65937	0.65400	0.74416	0.76547	0.84405	0.77734
L0	14:07:50	-99999	0.69703	-99999	0.66877	-99999	0.60540	-99999	0.68288	0.65937	0.65399	0.74416	0.76546	0.84403	0.77734
L0	14:09:09	-99999	0.69703	-99999	0.66874	-99999	0.60550	-99999	0.68292	0.65938	0.65403	0.74418	0.76547	0.84407	0.77736
L0	14:09:39	-99999	0.69704	-99999	0.66873	-99999	0.60546	-99999	0.68292	0.65938	0.65401	0.74417	0.76546	0.84405	0.77734
L0	14:21:10	-99999	0.69699	-99999	0.66876	-99999	0.60542	-99999	0.68292	0.65939	0.65402	0.74418	0.76548	0.84401	0.77735
L0	14:36:10	-99999	0.69703	-99999	0.66957	-99999	0.60586	-99999	0.68339	0.65957	0.65473	0.74434	0.76572	0.84411	0.77745
1L1	14:37:34	-99999	0.69667	-99999	0.66955	-99999	0.60591	-99999	0.68337	0.65957	0.65470	0.74434	0.76570	0.84412	0.77745
1L1	14:38:04	-99999	0.69668	-99999	0.66957	-99999	0.60596	-99999	0.68338	0.65957	0.65469	0.74434	0.76570	0.84410	0.77744
1L1	14:38:57	-99999	0.69679	-99999	0.66958	-99999	0.60596	-99999	0.68337	0.65958	0.65469	0.74434	0.76569	0.84410	0.77744
1L1	14:40:55	-99999	0.69677	-99999	0.66961	-99999	0.60594	-99999	0.68340	0.65959	0.65473	0.74436	0.76570	0.84412	0.77745
1L2	14:47:51	-99999	0.69772	-99999	0.67043	-99999	0.60598	-99999	0.68372	0.65977	0.65497	0.74450	0.76591	0.84451	0.77753
1L2	14:48:22	-99999	0.69774	-99999	0.67049	-99999	0.60601	-99999	0.68375	0.65980	0.65492	0.74449	0.76592	0.84457	0.77754
1L2	14:49:21	-99999	0.69780	-99999	0.67050	-99999	0.60603	-99999	0.68375	0.65984	0.65494	0.74455	0.76592	0.84454	0.77755
1L2	14:51:20	-99999	0.69779	-99999	0.67054	-99999	0.60606	-99999	0.68377	0.65984	0.65498	0.74449	0.76592	0.84454	0.77755
U1	14:56:21	-99999	0.69702	-99999	0.66874	-99999	0.60555	-99999	0.68291	0.65944	0.65413	0.74419	0.76544	0.84403	0.77733
2L0	14:56:51	-99999	0.69701	-99999	0.66872	-99999	0.60563	-99999	0.68294	0.65944	0.65410	0.74419	0.76546	0.84406	0.77734
2L0	14:57:31	-99999	0.69705	-99999	0.66877	-99999	0.60561	-99999	0.68292	0.65945	0.65412	0.74418	0.76546	0.84401	0.77734
2L0	14:59:36	-99999	0.69699	-99999	0.66873	-99999	0.60563	-99999	0.68291	0.65947	0.65419	0.74420	0.76548	0.84422	0.77760
2L1	15:00:40	-99999	0.69803	-99999	0.67086	-99999	0.60646	-99999	0.68403	0.66025	0.65478	0.74472	0.76607	0.84475	0.77768
2L1	15:01:13	-99999	0.69814	-99999	0.67084	-99999	0.60645	-99999	0.68405	0.66025	0.65479	0.74471	0.76608	0.84472	0.77767
2L1	15:02:21	-99999	0.69844	-99999	0.67094	-99999	0.60651	-99999	0.68404	0.66028	0.65481	0.74476	0.76608	0.84474	0.77767
2L1	15:04:10	-99999	0.69858	-99999	0.67097	-99999	0.60652	-99999	0.68404	0.66030	0.65480	0.74471	0.76607	0.84471	0.77765
2L2	15:07:17	-99999	0.69899	-99999	0.67165	-99999	0.60701	-99999	0.68429	0.66037	0.65535	0.74488	0.76623	0.84471	0.77775
2L2	15:07:47	-99999	0.69894	-99999	0.67166	-99999	0.60701	-99999	0.68432	0.66039	0.65534	0.74492	0.76624	0.84475	0.77774
2L2	15:08:45	-99999	0.69902	-99999	0.67173	-99999	0.60703	-99999	0.68432	0.66035	0.65535	0.74489	0.76623	0.84473	0.77774
2L2	15:10:50	-99999	0.69899	-99999	0.67173	-99999	0.60703	-99999	0.68431	0.66035	0.65538	0.74487	0.76623	0.84470	0.77772
2L3	15:12:42	-99999	0.70086	-99999	0.67377	-99999	0.60865	-99999	0.68571	0.66093	0.65589	0.74518	0.76668	0.84502	0.77797
2L3	15:13:12	-99999	0.70072	-99999	0.67375	-99999	0.60862	-99999	0.68571	0.66094	0.65589	0.74517	0.76665	0.84501	0.77796
2L3	15:14:09	-99999	0.70069	-99999	0.67376	-99999	0.60864	-99999	0.68571	0.66092	0.65586	0.74515	0.76664	0.84500	0.77796
2L3	15:16:05	-99999	0.70085	-99999	0.67384	-99999	0.60867	-99999	0.68571	0.66103	0.65589	0.74521	0.76663	0.84499	0.77794
2L4	15:17:48	-99999	0.70224	-99999	0.67509	-99999	0.60995	-99999	0.68629	0.66194	0.65684	0.74561	0.76688	0.84536	0.77816
2L4	15:18:18	-99999	0.70221	-99999	0.67513	-99999	0.60997	-99999	0.68630	0.66193	0.65687	0.74564	0.76690	0.84537	0.77817
2L4	15:19:14	-99999	0.70220	-99999	0.67513	-99999	0.60995	-99999	0.68630	0.66192	0.65685	0.74561	0.76687	0.84533	0.77814
2L4	15:21:15	-99999	0.70222	-99999	0.67513	-99999	0.60997	-99999	0.68630	0.66193	0.65684	0.74562	0.76687	0.84533	0.77812
2L5	15:23:02	-99999	0.70376	-99999	0.67668	-99999	0.61103	-99999	0.68743	0.66266	0.65797	0.74592	0.76723	0.84572	0.77833
2L5	15:23:32	-99999	0.70378	-99999	0.67672	-99999	0.61104	-99999	0.68746	0.66265	0.65800	0.74589	0.76722	0.84571	0.77832
2L5	15:24:21	-99999	0.70376	-99999	0.67667	-99999	0.61103	-99999	0.68743	0.66267	0.65798	0.74587	0.76719	0.84567	0.77830
2L5	15:26:19	-99999	0.70376	-99999	0.67670	-99999	0.61107	-99999	0.68746	0.66267	0.65800	0.74589	0.76718	0.84569	0.77830
2L6	15:27:49	-99999	0.70372	-99999	0.67665	-99999	0.61090	-99999	0.68714	0.66188	0.65675	0.74550	0.76535	0.84480	0.77598
2L6	15:28:19	-99999	0.70371	-99999	0.67665	-99999	0.61089	-99999	0.68709	0.66185	0.65673	0.74548	0.76528	0.84476	0.77592

Table F.27 continued

VIBRATING WIRE INSTRUMENT READINGS - STRAIN

VLW 4 LOAD NUMBER	TIME	VW STRN FREQ^2 KHZ^2 1	VW STRN FREQ^2 KHZ^2 2	VW STRN FREQ^2 KHZ^2 31	VW STRN FREQ^2 KHZ^2 32	VW STRN FREQ^2 KHZ^2 33	VW STRN FREQ^2 KHZ^2 34	VW STRN FREQ^2 KHZ^2 19	VW STRN FREQ^2 KHZ^2 20	VW STRN FREQ^2 KHZ^2 9	VW STRN FREQ KHZ^2 10	VW STRN FREQ KHZ^2 11	VW STRN FREQ KHZ^2 12	VW STRN FREQ KHZ^2 39	VW STRN FREQ KHZ^2 40
2L6	15:29:16	-99999	0.70375	-99999	0.67668	-99999	0.61091	-99999	0.68708	0.66184	0.65674	0.74548	0.76526	0.84476	0.77589
2L6	15:31:13	-99999	0.70372	-99999	0.67667	-99999	0.61092	-99999	0.68710	0.66182	0.65673	0.74552	0.76524	0.84480	0.77589
2L7	15:32:44	-99999	0.70372	-99999	0.67665	-99999	0.61086	-99999	0.68684	0.66179	0.65635	0.74512	0.76490	0.84471	0.77550
2L7	15:33:16	-99999	0.70371	-99999	0.67668	-99999	0.61088	-99999	0.68686	0.66180	0.65637	0.74509	0.76490	0.84471	0.77549
2L7	15:34:03	-99999	0.70372	-99999	0.67668	-99999	0.61089	-99999	0.68685	0.66179	0.65632	0.74510	0.76488	0.84473	0.77547
2L7	15:36:02	-99999	0.70370	-99999	0.67669	-99999	0.61091	-99999	0.68682	0.66178	0.65627	0.74510	0.76488	0.84473	0.77546
2L8	15:37:53	-99999	0.70364	-99999	0.67660	-99999	0.61065	-99999	0.68614	0.66088	0.65564	0.74389	0.76349	0.84296	0.77373
2L8	15:38:24	-99999	0.70365	-99999	0.67661	-99999	0.61067	-99999	0.68614	0.66090	0.65567	0.74386	0.76350	0.84303	0.77373
2L8	15:39:24	-99999	0.70368	-99999	0.67664	-99999	0.61073	-99999	0.68617	0.66090	0.65565	0.74386	0.76348	0.84300	0.77373
2L8	15:41:25	-99999	0.70367	-99999	0.67665	-99999	0.61074	-99999	0.68616	0.66090	0.65567	0.74388	0.76348	0.84306	0.77374
2L9	15:43:18	-99999	0.70364	-99999	0.67653	-99999	0.61035	-99999	0.68509	0.65907	0.65371	0.74106	0.76037	0.83957	0.77010
2L9	15:43:48	-99999	0.70362	-99999	0.67651	-99999	0.61038	-99999	0.68514	0.65910	0.65371	0.74106	0.76037	0.83958	0.77011
2L9	15:44:47	-99999	0.70362	-99999	0.67655	-99999	0.61042	-99999	0.68517	0.65910	0.65367	0.74105	0.76037	0.83957	0.77007
2L9	15:46:51	-99999	0.70362	-99999	0.67656	-99999	0.61045	-99999	0.68523	0.65911	0.65373	0.74105	0.76034	0.83957	0.77009
2L10	15:49:04	-99999	0.70358	-99999	0.67645	-99999	0.61028	-99999	0.68426	0.65736	0.65213	0.73800	0.75749	0.83608	0.76640
2L10	15:49:34	-99999	0.70360	-99999	0.67644	-99999	0.61031	-99999	0.68430	0.65734	0.65214	0.73804	0.75751	0.83615	0.76643
2L10	15:50:42	-99999	0.70359	-99999	0.67648	-99999	0.61045	-99999	0.68435	0.65735	0.65215	0.73804	0.75749	0.83614	0.76639
2L10	15:52:44	-99999	0.70361	-99999	0.67650	-99999	0.61041	-99999	0.68447	0.65737	0.65218	0.73807	0.75750	0.83616	0.76645
2L11	15:54:38	-99999	0.70361	-99999	0.67640	-99999	0.61019	-99999	0.68377	0.65562	0.65025	0.73507	0.75419	0.83304	0.76290
2L11	15:55:08	-99999	0.70360	-99999	0.67640	-99999	0.61020	-99999	0.68384	0.65565	0.65025	0.73512	0.75421	0.83310	0.76293
2L11	15:56:11	-99999	0.70358	-99999	0.67643	-99999	0.61023	-99999	0.68386	0.65567	0.65027	0.73510	0.75419	0.83306	0.76291
2L11	15:58:06	-99999	0.70360	-99999	0.67644	-99999	0.61035	-99999	0.68393	0.65573	0.65033	0.73518	0.75421	0.83318	0.76299
2L12	15:59:52	-99999	0.70356	-99999	0.67635	-99999	0.60987	-99999	0.68292	0.65418	0.64879	0.73216	0.75119	0.82925	0.75933
2L12	16:00:22	-99999	0.70358	-99999	0.67638	-99999	0.60993	-99999	0.68305	0.65422	0.64879	0.73217	0.75120	0.82925	0.75933
2L12	16:01:19	-99999	0.70361	-99999	0.67638	-99999	0.60998	-99999	0.68327	0.65430	0.64881	0.73213	0.75118	0.82925	0.75939
2L12	16:03:16	-99999	0.70356	-99999	0.67638	-99999	0.61006	-99999	0.68344	0.65436	0.64880	0.73222	0.75129	0.82933	0.75946
2L13	16:05:10	-99999	0.70357	-99999	0.67631	-99999	0.60933	-99999	0.68229	0.65309	0.64741	0.72922	0.74848	0.82573	0.75608
2L13	16:05:40	-99999	0.70359	-99999	0.67632	-99999	0.60936	-99999	0.68230	0.65303	0.64754	0.72921	0.74831	0.82581	0.75608
2L13	16:06:56	-99999	0.70357	-99999	0.67629	-99999	0.60919	-99999	0.68246	0.65347	0.64773	0.72927	0.74859	0.82600	0.75622
2L13	16:08:38	-99999	0.70351	-99999	0.67618	-99999	0.60913	-99999	0.68253	0.65370	0.64805	0.72947	0.74875	0.82609	0.75646
2L13A	16:10:38	-99999	0.70336	-99999	0.67609	-99999	0.60904	-99999	0.68260	0.65407	0.64871	0.73048	0.74971	0.82718	0.75769
2U1	16:14:29	-99999	0.70341	-99999	0.67625	-99999	0.60990	-99999	0.68374	0.65545	0.65019	0.73248	0.75173	0.82981	0.76023
2U2	16:19:01	-99999	0.70280	-99999	0.67550	-99999	0.60908	-99999	0.68291	0.65479	0.64971	0.73238	0.75153	0.82961	0.76011
2U3	16:24:27	-99999	0.69908	-99999	0.67181	-99999	0.60615	-99999	0.68063	0.65297	0.64771	0.73102	0.75046	0.82843	0.75893
2U4	16:28:20	-99999	0.69651	-99999	0.66869	-99999	0.60367	-99999	0.67867	0.65154	0.64609	0.72974	0.74932	0.82727	0.75806
2U5	16:32:36	-99999	0.69703	-99999	0.66947	-99999	0.60502	-99999	0.68108	0.65483	0.64973	0.73372	0.75537	0.83135	0.76513
2U6	16:36:45	-99999	0.69712	-99999	0.66953	-99999	0.60581	-99999	0.68226	0.65672	0.65131	0.73612	0.75754	0.83408	0.76777
2U7	16:40:55	-99999	0.69712	-99999	0.66993	-99999	0.60602	-99999	0.68374	0.65886	0.65372	0.73930	0.76030	0.83771	0.77111
2U8	16:44:54	-99999	0.69641	-99999	0.67012	-99999	0.60650	-99999	0.68474	0.66092	0.65607	0.74210	0.76351	0.84106	0.77445
2U9	16:48:37	-99999	0.69690	-99999	0.67048	-99999	0.60705	-99999	0.68607	0.66299	0.65801	0.74500	0.76655	0.84466	0.77768
2U9A	16:51:35	-99999	0.69682	-99999	0.67047	-99999	0.60705	-99999	0.68607	0.66300	0.65807	0.74498	0.76656	0.84470	0.77769

NOTE: WIRES TO GAGES 1,31,33&19 WERE CUT DURING INSTALLATION OF TEST FRAME AT PILE TOP

Table F.27 continued

VIBRATING WIRE INSTRUMENT READINGS - TEMPERATURE

VLW 4 LOAD NUMBER	TIME	VW STRN TEMP DEG C 1	VW STRN TEMP DEG C 2	VW STRN TEMP DEG C 31	VW STRN TEMP DEG C 32	VW STRN TEMP DEG C 33	VW STRN TEMP DEG C 34	VW STRN TEMP DEG C 19	VW STRN TEMP DEG C 20	VW STRN TEMP DEG C 9	VW STRN TEMP DEG C 10	VW STRN TEMP DEG C 11	VW STRN TEMP DEG C 12	VW STRN TEMP DEG C 39	VW STRN TEMP DEG C 40
L0	13:46:09	-55.627	15.514	-55.627	21.575	-55.627	22.130	-55.627	21.267	22.193	20.992	22.255	20.657	21.420	21.605
L0	13:57:09	-55.627	15.538	-55.627	21.569	-55.627	22.156	-55.627	21.262	22.218	21.017	22.281	20.713	21.446	21.661
L0	14:06:17	-55.627	15.534	-55.627	21.564	-55.627	22.152	-55.627	21.288	22.183	20.983	22.276	20.678	21.442	21.657
L0	14:06:57	-55.627	15.505	-55.627	21.564	-55.627	22.151	-55.627	21.257	22.182	21.012	22.306	20.678	21.441	21.656
L0	14:07:50	-55.627	15.505	-55.627	21.564	-55.627	22.120	-55.627	21.287	22.213	21.012	22.306	20.678	21.441	21.625
L0	14:09:09	-55.627	15.505	-55.627	21.564	-55.627	22.120	-55.627	21.257	22.182	20.982	22.275	20.678	21.441	21.625
L0	14:09:39	-55.627	15.534	-55.627	21.563	-55.627	22.119	-55.627	21.256	22.212	21.012	22.306	20.677	21.440	21.624
L0	14:21:10	-55.627	15.503	-55.627	21.561	-55.627	22.118	-55.627	21.255	22.211	20.979	22.304	20.675	21.469	21.623
L0	14:36:10	-55.627	15.531	-55.627	21.560	-55.627	22.148	-55.627	21.254	22.179	21.040	22.272	20.674	21.438	21.622
1L1	14:37:34	-55.627	15.531	-55.627	21.560	-55.627	22.148	-55.627	21.284	22.210	21.009	22.303	20.674	21.468	21.622
1L1	14:38:04	-55.627	15.531	-55.627	21.560	-55.627	22.179	-55.627	21.284	22.179	21.009	22.272	20.705	21.438	21.622
1L1	14:38:57	-55.627	15.531	-55.627	21.560	-55.627	22.148	-55.627	21.284	22.179	21.009	22.272	20.705	21.437	21.622
1L1	14:40:55	-55.627	15.531	-55.627	21.560	-55.627	22.148	-55.627	21.284	22.210	21.009	22.303	20.705	21.468	21.622
1L2	14:47:51	-55.627	15.529	-55.627	21.589	-55.627	22.145	-55.627	21.282	22.176	21.007	22.270	20.672	21.435	21.620
1L2	14:48:22	-55.627	15.529	-55.627	21.558	-55.627	22.145	-55.627	21.282	22.176	21.007	22.270	20.672	21.466	21.620
1L2	14:49:21	-55.627	15.558	-55.627	21.558	-55.627	22.145	-55.735	21.282	22.176	21.007	22.301	20.703	21.435	21.651
1L2	14:51:20	-55.627	15.558	-55.627	21.559	-55.627	22.146	-55.627	21.282	22.177	21.007	22.301	20.703	21.436	21.651
U1	14:56:21	-55.627	15.530	-55.627	21.559	-55.627	22.146	-55.627	21.313	22.177	21.008	22.269	20.671	21.434	21.619
2L0	14:56:51	-55.735	15.557	-55.627	21.557	-55.627	22.144	-55.627	21.281	22.175	21.036	22.300	20.671	21.434	21.619
2L0	14:57:31	-55.627	15.528	-55.627	21.557	-55.627	22.144	-55.627	21.281	22.175	21.006	22.269	20.671	21.434	21.649
2L0	14:59:36	-55.627	15.527	-55.627	21.586	-55.627	22.143	-55.627	21.310	22.174	21.035	22.298	20.670	21.433	21.648
2L1	15:00:40	-55.627	15.527	-55.627	21.586	-55.627	22.143	-55.627	21.310	22.174	21.004	22.329	20.670	21.433	21.617
2L1	15:01:13	-55.627	15.556	-55.627	21.556	-55.627	22.174	-55.627	21.310	22.174	21.035	22.298	20.670	21.433	21.648
2L1	15:02:21	-55.627	15.556	-55.627	21.556	-55.519	22.174	-55.627	21.278	22.204	21.034	22.297	20.699	21.462	21.647
2L1	15:04:10	-55.627	15.526	-55.627	21.585	-55.627	22.142	-55.627	21.278	22.173	21.003	22.328	20.669	21.432	21.647
2L2	15:07:17	-55.627	15.524	-55.627	21.582	-55.627	22.139	-55.627	21.306	22.170	21.000	22.294	20.666	21.459	21.644
2L2	15:07:47	-55.627	15.524	-55.627	21.582	-55.627	22.139	-55.627	21.275	22.170	21.031	22.263	20.666	21.429	21.644
2L2	15:08:45	-55.627	15.523	-55.627	21.582	-55.627	22.138	-55.627	21.275	22.200	21.031	22.294	20.665	21.428	21.644
2L2	15:10:50	-55.627	15.523	-55.627	21.582	-55.627	22.138	-55.627	21.275	22.169	21.000	22.294	20.665	21.428	21.674
2L3	15:12:42	-55.627	15.521	-55.627	21.580	-55.627	22.136	-55.412	21.273	22.167	20.998	22.291	20.663	21.426	21.641
2L3	15:13:12	-55.627	15.521	-55.627	21.580	-55.627	22.136	-53.931	21.273	22.167	21.028	22.323	20.663	21.426	21.641
2L3	15:14:09	-55.627	15.521	-55.627	21.580	-55.627	22.167	-53.619	21.273	22.167	21.028	22.292	20.694	21.426	21.641
2L3	15:16:05	-55.627	15.522	-55.627	21.611	-55.627	22.167	-53.723	21.273	22.198	21.028	22.292	20.694	21.426	21.672
2L4	15:17:48	-55.627	15.520	-55.627	21.609	-55.627	22.134	-53.723	21.302	22.165	20.996	22.290	20.662	21.455	21.639
2L4	15:18:18	-55.627	15.520	-55.627	21.578	-55.627	22.134	-53.723	21.271	22.165	21.027	22.321	20.662	21.455	21.639
2L4	15:19:14	-55.627	15.549	-55.627	21.578	-55.627	22.134	-53.723	21.271	22.196	20.996	22.290	20.662	21.455	21.639
2L4	15:21:15	-55.627	15.547	-55.627	21.576	-55.627	22.133	-53.827	21.270	22.164	21.025	22.288	20.660	21.423	21.638
2L5	15:23:02	-55.627	15.518	-55.627	21.575	-55.627	22.131	-53.827	21.268	22.194	20.993	22.318	20.689	21.452	21.637
2L5	15:23:32	-55.627	15.518	-55.627	21.606	-55.627	22.131	-53.827	21.268	22.194	21.024	22.287	20.689	21.452	21.637
2L5	15:24:21	-55.627	15.518	-55.627	21.544	-55.627	22.163	-53.827	21.299	22.194	20.993	22.287	20.689	21.422	21.668
2L5	15:26:19	-55.627	15.517	-55.627	21.574	-55.627	22.162	-53.827	21.267	22.162	20.992	22.317	20.658	21.451	21.667
2L6	15:27:49	-55.627	15.517	-55.627	21.574	-55.627	22.130	-53.827	21.267	22.193	20.992	22.286	20.688	21.421	21.636
2L6	15:28:19	-55.627	15.517	-55.627	21.574	-55.627	22.130	-53.827	21.267	22.193	21.023	22.317	20.688	21.421	21.667

Table F.27 continued

VIBRATING WIRE INSTRUMENT READINGS - TEMPERATURE

VLW 4 LOAD NUMBER	TIME	VW STRN TEMP DEG C 1	VW STRN TEMP DEG C 2	VW STRN TEMP DEG C 31	VW STRN TEMP DEG C 32	VW STRN TEMP DEG C 33	VW STRN TEMP DEG C 34	VW STRN TEMP DEG C 19	VW STRN TEMP DEG C 20	VW STRN TEMP DEG C 9	VW STRN TEMP DEG C 10	VW STRN TEMP DEG C 11	VW STRN TEMP DEG C 12	VW STRN TEMP DEG C 39	VW STRN TEMP DEG C 40
2L6	15:29:16	-55.627	15.516	-55.627	21.574	-55.627	22.130	-53.827	21.267	22.161	20.992	22.285	20.688	21.451	21.635
2L6	15:31:13	-55.627	15.545	-55.627	21.604	-55.627	22.161	-53.932	21.267	22.161	20.992	22.285	20.657	21.420	21.635
2L7	15:32:44	-55.627	15.544	-55.627	21.573	-55.627	22.129	-53.932	21.266	22.160	21.022	22.284	20.687	21.419	21.665
2L7	15:33:16	-55.627	15.516	-55.627	21.573	-55.627	22.160	-53.932	21.266	22.191	20.991	22.284	20.717	21.419	21.634
2L7	15:34:03	-55.627	15.516	-55.627	21.573	-55.627	22.160	-53.932	21.266	22.191	20.991	22.316	20.687	21.450	21.665
2L7	15:36:02	-55.627	15.544	-55.627	21.572	-55.627	22.129	-53.932	21.266	22.191	20.991	22.284	20.687	21.419	21.634
2L8	15:37:53	-55.627	15.515	-55.627	21.572	-55.627	22.128	-53.932	21.296	22.159	21.021	22.315	20.686	21.418	21.634
2L8	15:38:24	-55.627	15.515	-55.627	21.572	-55.627	22.128	-53.932	21.265	22.159	21.021	22.284	20.686	21.418	21.634
2L8	15:39:24	-55.627	15.515	-55.627	21.603	-55.627	22.128	-53.932	21.265	22.190	20.990	22.284	20.686	21.449	21.664
2L8	15:41:25	-55.627	15.515	-55.627	21.602	-55.627	22.128	-53.932	21.265	22.159	20.990	22.283	20.686	21.418	21.633
2L9	15:43:18	-55.627	15.515	-55.627	21.602	-55.627	22.128	-53.932	21.265	22.190	20.990	22.314	20.716	21.418	21.633
2L9	15:43:48	-55.627	15.543	-55.627	21.602	-55.627	22.159	-53.932	21.265	22.190	21.020	22.283	20.716	21.418	21.633
2L9	15:44:47	-55.627	15.515	-55.627	21.571	-55.627	22.128	-53.932	21.265	22.159	20.990	22.314	20.686	21.418	21.633
2L9	15:46:51	-55.627	15.514	-55.627	21.571	-55.627	22.127	-53.932	21.264	22.158	20.990	22.283	20.685	21.448	21.664
2L10	15:49:04	-55.627	15.514	-55.627	21.571	-55.627	22.127	-53.932	21.264	22.158	20.990	22.283	20.685	21.417	21.633
2L10	15:49:34	-55.627	15.514	-55.627	21.602	-55.627	22.127	-53.932	21.264	22.189	20.989	22.283	20.685	21.448	21.633
2L10	15:50:42	-55.627	15.514	-55.627	21.571	-55.627	22.127	-54.036	21.264	22.158	20.989	22.314	20.685	21.448	21.633
2L10	15:52:44	-55.627	15.514	-55.627	21.571	-55.627	22.127	-54.036	21.264	22.158	20.989	22.282	20.715	21.479	21.663
2L11	15:54:38	-55.627	15.514	-55.627	21.571	-55.627	22.127	-53.932	21.264	22.189	20.989	22.282	20.685	21.448	21.633
2L11	15:55:08	-55.627	15.514	-55.627	21.602	-55.627	22.127	-54.036	21.295	22.158	20.989	22.282	20.685	21.448	21.632
2L11	15:56:11	-55.627	15.514	-55.627	21.571	-55.627	22.127	-54.036	21.264	22.189	20.989	22.282	20.685	21.479	21.663
2L11	15:58:06	-55.627	15.514	-55.627	21.571	-55.627	22.127	-54.036	21.295	22.189	20.989	22.282	20.685	21.448	21.632
2L12	15:59:52	-55.627	15.514	-55.627	21.571	-55.627	22.127	-54.036	21.264	22.158	20.989	22.313	20.685	21.448	21.632
2L12	16:00:22	-55.627	15.514	-55.627	21.571	-55.627	22.127	-54.036	21.264	22.189	20.989	22.282	20.685	21.417	21.632
2L12	16:01:19	-55.627	15.514	-55.627	21.601	-55.627	22.127	-54.036	21.294	22.189	20.989	22.282	20.685	21.417	21.632
2L12	16:03:16	-55.627	15.514	-55.627	21.601	-55.627	22.158	-54.036	21.264	22.158	21.019	22.282	20.715	21.479	21.663
2L13	16:05:10	-55.627	15.514	-55.627	21.601	-55.627	22.127	-54.036	21.294	22.189	20.989	22.282	20.685	21.448	21.632
2L13	16:05:40	-55.627	15.514	-55.627	21.601	-55.627	22.127	-54.036	21.294	22.158	21.019	22.282	20.715	21.478	21.632
2L13	16:06:56	-55.627	15.514	-55.627	21.571	-55.627	22.127	-54.036	21.264	22.158	20.989	22.313	20.715	21.448	21.663
2L13	16:08:38	-55.627	15.514	-55.627	21.571	-55.627	22.127	-54.036	21.294	22.189	20.989	22.282	20.685	21.448	21.632
2L13A	16:10:38	-55.627	15.514	-55.627	21.571	-55.627	22.127	-54.141	21.264	22.189	20.989	22.282	20.685	21.448	21.632
2U1	16:14:29	-55.627	15.514	-55.627	21.571	-55.627	22.127	-54.141	21.294	22.189	20.989	22.282	20.715	21.448	21.663
2U2	16:19:01	-55.627	15.514	-55.627	21.601	-55.627	22.127	-54.141	21.294	22.189	21.019	22.282	20.685	21.448	21.632
2U3	16:24:27	-55.627	15.514	-55.627	21.570	-55.627	22.127	-54.141	21.264	22.158	20.989	22.282	20.685	21.448	21.632
2U4	16:28:20	-55.627	15.542	-55.627	21.601	-55.627	22.127	-54.245	21.264	22.158	20.989	22.282	20.715	21.478	21.632
2U5	16:32:36	-55.627	15.514	-55.627	21.570	-55.627	22.127	-54.245	21.264	22.189	20.989	22.282	20.685	21.448	21.632
2U6	16:36:45	-55.627	15.542	-55.627	21.570	-55.627	22.127	-54.245	21.264	22.189	20.989	22.282	20.685	21.448	21.663
2U7	16:40:55	-55.627	15.514	-55.627	21.570	-55.627	22.127	-54.245	21.264	22.158	20.989	22.313	20.715	21.448	21.632
2U8	16:44:54	-55.627	15.485	-55.627	21.570	-55.627	22.127	-54.245	21.264	22.158	20.989	22.313	20.654	21.417	21.632
2U9	16:48:37	-55.627	15.485	-55.627	21.570	-55.627	22.127	-54.245	21.264	22.158	20.989	22.282	20.654	21.417	21.632
2U9A	16:51:35	-55.627	15.485	-55.627	21.570	-55.627	22.127	-54.245	21.264	22.189	20.989	22.282	20.685	21.448	21.632

Table F.27 continued

VIBRATING WIRE CALCULATED STRAIN INCREMENTS

VLW 4 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 1	VW STRN MICRO STRAIN 2	VW STRN MICRO STRAIN 31	VW STRN MICRO STRAIN 32	VW STRN MICRO STRAIN 33	VW STRN MICRO STRAIN 34	VW STRN MICRO STRAIN 19	VW STRN MICRO STRAIN 20	VW STRN MICRO STRAIN 9	VW STRN MICRO STRAIN 10	VW STRN MICRO STRAIN 11	VW STRN MICRO STRAIN 12	VW STRN MICRO STRAIN 39	VW STRN MICRO STRAIN 40
L0	13:46:09	0.0	-0.0	0.0	2.8	0.0	1.3	0.0	1.6	0.7	2.4	0.6	0.8	0.3	0.4
L0	13:57:09	0.0	-0.0	0.0	2.7	0.0	1.4	0.0	1.5	0.6	2.6	0.5	0.8	0.2	0.3
L0	14:06:17	0.0	0.1	0.0	2.5	0.0	1.6	0.0	1.5	0.7	2.5	0.6	0.9	0.2	0.3
L0	14:06:57	0.0	0.0	0.0	2.5	0.0	1.5	0.0	1.6	0.7	2.4	0.6	0.8	0.2	0.3
L0	14:07:50	0.0	0.0	0.0	2.6	0.0	1.6	0.0	1.6	0.6	2.5	0.6	0.9	0.3	0.4
L0	14:09:09	0.0	0.0	0.0	2.7	0.0	1.2	0.0	1.5	0.6	2.4	0.5	0.8	0.1	0.3
L0	14:09:39	0.0	-0.0	0.0	2.8	0.0	1.4	0.0	1.6	0.6	2.4	0.5	0.9	0.2	0.4
L0	14:21:10	0.0	0.2	0.0	2.7	0.0	1.5	0.0	1.6	0.6	2.4	0.5	0.8	0.3	0.3
L0	14:36:10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1L1	14:37:34	0.0	1.2	0.0	0.1	0.0	-0.2	0.0	0.0	-0.0	0.1	-0.0	0.1	-0.1	0.0
1L1	14:38:04	0.0	1.2	0.0	0.0	0.0	-0.4	0.0	-0.0	0.0	0.2	0.0	0.0	0.0	0.0
1L1	14:38:57	0.0	0.8	0.0	-0.0	0.0	-0.3	0.0	0.0	-0.0	0.2	0.0	0.1	0.0	0.0
1L1	14:40:55	0.0	0.9	0.0	-0.1	0.0	-0.3	0.0	-0.1	-0.1	0.0	-0.1	0.0	-0.1	0.0
1L2	14:47:51	0.0	-2.3	0.0	-2.9	0.0	-0.4	0.0	-1.1	-0.7	-0.8	-0.5	-0.6	-1.3	-0.3
1L2	14:48:22	0.0	-2.3	0.0	-3.0	0.0	-0.5	0.0	-1.2	-0.8	-0.6	-0.5	-0.7	-1.6	-0.3
1L2	14:49:21	0.0	-2.6	0.0	-3.1	0.0	-0.6	0.0	-1.2	-0.9	-0.7	-0.7	-0.7	-1.4	-0.4
1L2	14:51:20	0.0	-2.5	0.0	-3.2	0.0	-0.7	0.0	-1.3	-0.9	-0.8	-0.5	-0.7	-1.4	-0.4
U1	14:56:21	0.0	0.0	0.0	2.7	0.0	1.0	0.0	1.5	0.4	2.0	0.5	0.9	0.3	0.4
2L0	14:56:51	0.0	-0.1	0.0	0.1	0.0	-0.0	0.0	-0.1	0.1	0.3	0.0	0.1	0.5	0.9
2L0	14:57:31	0.0	-0.2	0.0	-0.1	0.0	0.1	0.0	0.0	0.1	0.3	0.1	0.1	0.7	0.9
2L0	14:59:36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2L1	15:00:40	0.0	-3.4	0.0	-7.0	0.0	-2.7	0.0	-3.7	-2.6	-1.9	-1.8	-1.9	-1.8	-0.2
2L1	15:01:13	0.0	-3.8	0.0	-6.9	0.0	-2.7	0.0	-3.8	-2.6	-2.0	-1.7	-2.0	-1.7	-0.2
2L1	15:02:21	0.0	-4.8	0.0	-7.3	0.0	-2.9	0.0	-3.7	-2.7	-2.0	-1.8	-2.0	-1.8	-0.2
2L1	15:04:10	0.0	-5.3	0.0	-7.4	0.0	-2.9	0.0	-3.7	-2.7	-2.0	-1.7	-1.9	-1.6	-0.2
2L2	15:07:17	0.0	-6.6	0.0	-9.6	0.0	-4.6	0.0	-4.6	-3.0	-3.8	-2.2	-2.5	-1.7	-0.5
2L2	15:07:47	0.0	-6.4	0.0	-9.7	0.0	-4.6	0.0	-4.6	-3.0	-3.8	-2.3	-2.5	-1.7	-0.5
2L2	15:08:45	0.0	-6.7	0.0	-9.9	0.0	-4.6	0.0	-4.6	-2.9	-3.8	-2.3	-2.5	-1.7	-0.5
2L2	15:10:50	0.0	-6.6	0.0	-9.9	0.0	-4.6	0.0	-4.6	-2.9	-3.9	-2.2	-2.5	-1.6	-0.4
2L3	15:12:42	0.0	-12.8	0.0	-16.6	0.0	-10.0	0.0	-9.2	-4.8	-5.6	-3.2	-4.0	-2.6	-1.2
2L3	15:13:12	0.0	-12.3	0.0	-16.6	0.0	-9.9	0.0	-9.2	-4.8	-5.6	-3.2	-3.9	-2.6	-1.2
2L3	15:14:09	0.0	-12.2	0.0	-16.6	0.0	-10.0	0.0	-9.2	-4.8	-5.5	-3.1	-3.9	-2.6	-1.2
2L3	15:16:05	0.0	-12.7	0.0	-16.9	0.0	-10.1	0.0	-9.2	-5.2	-5.6	-3.3	-3.8	-2.5	-1.2
2L4	15:17:48	0.0	-17.3	0.0	-21.0	0.0	-14.3	0.0	-11.2	-8.1	-8.7	-4.6	-4.6	-3.8	-1.8
2L4	15:18:18	0.0	-17.2	0.0	-21.1	0.0	-14.3	0.0	-11.1	-8.1	-8.8	-4.8	-4.7	-3.8	-1.9
2L4	15:19:14	0.0	-17.2	0.0	-21.1	0.0	-14.3	0.0	-11.1	-8.1	-8.7	-4.6	-4.6	-3.7	-1.8
2L4	15:21:15	0.0	-17.3	0.0	-21.1	0.0	-14.3	0.0	-11.1	-8.1	-8.7	-4.7	-4.6	-3.7	-1.7
2L5	15:23:02	0.0	-22.4	0.0	-26.3	0.0	-17.8	0.0	-14.9	-10.6	-12.4	-5.7	-5.8	-5.0	-2.4
2L5	15:23:32	0.0	-22.4	0.0	-26.4	0.0	-17.9	0.0	-15.0	-10.5	-12.6	-5.6	-5.8	-4.9	-2.4
2L5	15:24:21	0.0	-22.4	0.0	-26.2	0.0	-17.9	0.0	-14.9	-10.6	-12.5	-5.5	-5.7	-4.8	-2.3
2L5	15:26:19	0.0	-22.4	0.0	-26.3	0.0	-18.0	0.0	-15.0	-10.6	-12.5	-5.6	-5.6	-4.9	-2.3
2L6	15:27:49	0.0	-22.2	0.0	-26.2	0.0	-17.4	0.0	-13.9	-8.0	-8.4	-4.3	0.4	-1.9	5.4
2L6	15:28:19	0.0	-22.2	0.0	-26.2	0.0	-17.4	0.0	-13.8	-7.9	-8.4	-4.3	0.6	-1.8	5.5

Table F.27 continued

VIBRATING WIRE CALCULATED STRAIN INCREMENTS

VLW 4 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 1	VW STRN MICRO STRAIN 2	VW STRN MICRO STRAIN 31	VW STRN MICRO STRAIN 32	VW STRN MICRO STRAIN 33	VW STRN MICRO STRAIN 34	VW STRN MICRO STRAIN 19	VW STRN MICRO STRAIN 20	VW STRN MICRO STRAIN 9	VW STRN MICRO STRAIN 10	VW STRN MICRO STRAIN 11	VW STRN MICRO STRAIN 12	VW STRN MICRO STRAIN 39	VW STRN MICRO STRAIN 40
2L6	15:29:16	0.0	-22.3	0.0	-26.3	0.0	-17.4	0.0	-13.7	-7.8	-8.4	-4.2	0.7	-1.8	5.7
2L6	15:31:13	0.0	-22.3	0.0	-26.3	0.0	-17.5	0.0	-13.8	-7.7	-8.3	-4.3	0.8	-1.9	5.7
2L7	15:32:44	0.0	-22.3	0.0	-26.2	0.0	-17.3	0.0	-12.9	-7.6	-7.1	-3.0	1.9	-1.6	6.9
2L7	15:33:16	0.0	-22.2	0.0	-26.2	0.0	-17.4	0.0	-13.0	-7.7	-7.1	-2.9	1.9	-1.6	7.0
2L7	15:34:03	0.0	-22.2	0.0	-26.2	0.0	-17.4	0.0	-13.0	-7.7	-7.0	-3.0	2.0	-1.7	7.0
2L7	15:36:02	0.0	-22.2	0.0	-26.3	0.0	-17.4	0.0	-12.9	-7.7	-6.8	-3.0	2.0	-1.7	7.1
2L8	15:37:53	0.0	-22.0	0.0	-26.0	0.0	-16.6	0.0	-10.7	-4.6	-4.8	1.0	6.6	4.2	12.8
2L8	15:38:24	0.0	-22.0	0.0	-26.0	0.0	-16.6	0.0	-10.6	-4.7	-4.9	1.1	6.5	4.0	12.8
2L8	15:39:24	0.0	-22.1	0.0	-26.2	0.0	-16.8	0.0	-10.7	-4.7	-4.8	1.1	6.6	4.0	12.8
2L8	15:41:25	0.0	-22.1	0.0	-26.2	0.0	-16.9	0.0	-10.7	-4.7	-4.8	1.1	6.6	3.9	12.8
2L9	15:43:18	0.0	-22.0	0.0	-25.8	0.0	-15.6	0.0	-7.1	1.3	1.6	10.4	16.8	15.4	24.8
2L9	15:43:48	0.0	-21.9	0.0	-25.7	0.0	-15.7	0.0	-7.3	1.2	1.6	10.4	16.8	15.4	24.8
2L9	15:44:47	0.0	-21.9	0.0	-25.8	0.0	-15.8	0.0	-7.4	1.2	1.8	10.4	16.9	15.4	24.9
2L9	15:46:51	0.0	-21.9	0.0	-25.9	0.0	-15.9	0.0	-7.6	1.2	1.6	10.4	17.0	15.3	24.8
2L10	15:49:04	0.0	-21.8	0.0	-25.5	0.0	-15.3	0.0	-4.4	7.0	6.9	20.5	26.4	26.9	37.0
2L10	15:49:34	0.0	-21.8	0.0	-25.5	0.0	-15.4	0.0	-4.5	7.0	6.8	20.4	26.3	26.6	36.9
2L10	15:50:42	0.0	-21.8	0.0	-25.6	0.0	-15.9	0.0	-4.7	7.0	6.8	20.3	26.4	26.7	37.1
2L10	15:52:44	0.0	-21.9	0.0	-25.7	0.0	-15.8	0.0	-5.1	7.0	6.7	20.3	26.3	26.6	36.8
2L11	15:54:38	0.0	-21.9	0.0	-25.3	0.0	-15.0	0.0	-2.8	12.7	13.1	30.2	37.3	36.9	48.6
2L11	15:55:08	0.0	-21.8	0.0	-25.4	0.0	-15.1	0.0	-3.1	12.6	13.1	30.0	37.2	36.7	48.5
2L11	15:56:11	0.0	-21.8	0.0	-25.4	0.0	-15.2	0.0	-3.1	12.5	13.0	30.1	37.3	36.8	48.5
2L11	15:58:06	0.0	-21.8	0.0	-25.5	0.0	-15.6	0.0	-3.4	12.3	12.8	29.8	37.2	36.5	48.3
2L12	15:59:52	0.0	-21.7	0.0	-25.2	0.0	-14.0	0.0	0.0	17.5	17.9	39.8	47.2	49.4	60.4
2L12	16:00:22	0.0	-21.8	0.0	-25.3	0.0	-14.2	0.0	-0.4	17.3	17.9	39.8	47.2	49.5	60.4
2L12	16:01:19	0.0	-21.9	0.0	-25.3	0.0	-14.4	0.0	-1.2	17.1	17.8	39.9	47.2	49.5	60.2
2L12	16:03:16	0.0	-21.7	0.0	-25.3	0.0	-14.7	0.0	-1.7	16.9	17.8	39.6	46.8	49.1	59.9
2L13	16:05:10	0.0	-21.7	0.0	-25.1	0.0	-12.2	0.0	2.1	21.1	22.5	49.5	56.1	61.1	71.1
2L13	16:05:40	0.0	-21.8	0.0	-25.1	0.0	-12.3	0.0	2.0	21.3	22.0	49.5	56.7	60.8	71.1
2L13	16:06:56	0.0	-21.7	0.0	-25.0	0.0	-11.7	0.0	1.5	19.8	21.4	49.3	55.7	60.2	70.6
2L13	16:08:38	0.0	-21.5	0.0	-24.6	0.0	-11.5	0.0	1.3	19.0	20.3	48.7	55.3	59.9	69.9
2L13A	16:10:38	0.0	-21.0	0.0	-24.3	0.0	-11.2	0.0	1.1	17.8	18.2	45.4	52.1	56.3	65.8
2U1	16:14:29	0.0	-21.2	0.0	-24.8	0.0	-14.1	0.0	-2.7	13.3	13.3	38.7	45.4	47.6	57.4
2U2	16:19:01	0.0	-19.2	0.0	-22.4	0.0	-11.4	0.0	0.0	15.4	14.8	39.1	46.1	48.3	57.8
2U3	16:24:27	0.0	-6.9	0.0	-10.2	0.0	-1.7	0.0	7.6	21.5	21.5	43.6	49.6	52.2	61.7
2U4	16:28:20	0.0	1.6	0.0	0.1	0.0	6.5	0.0	14.1	26.2	26.8	47.8	53.3	55.9	64.6
2U5	16:32:36	0.0	-0.1	0.0	-2.4	0.0	2.0	0.0	6.1	15.3	14.8	34.6	33.4	42.5	41.2
2U6	16:36:45	0.0	-0.4	0.0	-2.6	0.0	-0.6	0.0	2.2	9.1	9.6	26.7	26.2	33.5	32.5
2U7	16:40:55	0.0	-0.4	0.0	-3.9	0.0	-1.3	0.0	-2.7	2.0	1.6	16.2	17.1	21.5	21.5
2U8	16:44:54	0.0	2.0	0.0	-4.6	0.0	-2.9	0.0	-6.0	-4.8	-6.2	6.9	6.5	10.5	10.4
2U9	16:48:37	0.0	0.4	0.0	-5.8	0.0	-4.7	0.0	-10.4	-11.6	-12.6	-2.6	-3.5	-1.4	-0.2
2U9A	16:51:35	0.0	0.6	0.0	-5.7	0.0	-4.7	0.0	-10.4	-11.7	-12.8	-2.6	-3.6	-1.6	-0.3

NOTE: INITIAL LOAD SEQUENCE WAS ABORTED AFTER SEATING LOAD. BASELINE FOR ANALYSIS OF 2ND LOAD SEQUENCE TAKEN AT 2L0.

Table F.27 continued

VIBRATING WIRE CALCULATED STRAIN (4 MINUTE READINGS)

VLW 4 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 1	VW STRN MICRO STRAIN 2	VW STRN MICRO STRAIN 31	VW STRN MICRO STRAIN 32	VW STRN MICRO STRAIN 33	VW STRN MICRO STRAIN 34	VW STRN MICRO STRAIN 19	VW STRN MICRO STRAIN 20	VW STRN MICRO STRAIN 9	VW STRN MICRO STRAIN 10	VW STRN MICRO STRAIN 11	VW STRN MICRO STRAIN 12	VW STRN MICRO STRAIN 39	VW STRN MICRO STRAIN 40
2L0	14:59:36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2L1	15:04:10	0.0	-5.3	0.0	-7.4	0.0	-2.9	0.0	-3.7	-2.7	-2.0	-1.7	-1.9	-1.6	-0.2
2L2	15:10:50	0.0	-6.6	0.0	-9.9	0.0	-4.6	0.0	-4.6	-2.9	-3.9	-2.2	-2.5	-1.6	-0.4
2L3	15:16:05	0.0	-12.7	0.0	-16.9	0.0	-10.1	0.0	-9.2	-5.2	-5.6	-3.3	-3.8	-2.5	-1.2
2L4	15:21:15	0.0	-17.3	0.0	-21.1	0.0	-14.3	0.0	-11.1	-8.1	-8.7	-4.7	-4.6	-3.7	-1.7
2L5	15:26:19	0.0	-22.4	0.0	-26.3	0.0	-18.0	0.0	-15.0	-10.6	-12.5	-5.6	-5.6	-4.9	-2.3
2L6	15:31:13	0.0	-22.3	0.0	-26.3	0.0	-17.5	0.0	-13.8	-7.7	-8.3	-4.3	0.8	-1.9	5.7
2L7	15:36:02	0.0	-22.2	0.0	-26.3	0.0	-17.4	0.0	-12.9	-7.7	-6.8	-3.0	2.0	-1.7	7.1
2L8	15:41:25	0.0	-22.1	0.0	-26.2	0.0	-16.9	0.0	-10.7	-4.7	-4.8	1.1	6.6	3.9	12.8
2L9	15:46:51	0.0	-21.9	0.0	-25.9	0.0	-15.9	0.0	-7.6	1.2	1.6	10.4	17.0	15.3	24.8
2L10	15:52:44	0.0	-21.9	0.0	-25.7	0.0	-15.8	0.0	-5.1	7.0	6.7	20.3	26.3	26.6	36.8
2L11	15:58:06	0.0	-21.8	0.0	-25.5	0.0	-15.6	0.0	-3.4	12.3	12.8	29.8	37.2	36.5	48.3
2L12	16:03:16	0.0	-21.7	0.0	-25.3	0.0	-14.7	0.0	-1.7	16.9	17.8	39.6	46.8	49.1	59.9
2L13	16:08:38	0.0	-21.5	0.0	-24.6	0.0	-11.5	0.0	1.3	19.0	20.3	48.7	55.3	59.9	69.9
2L13A	16:10:38	0.0	-21.0	0.0	-24.3	0.0	-11.2	0.0	1.1	17.8	18.2	45.4	52.1	56.3	65.8
2U1	16:14:29	0.0	-21.2	0.0	-24.8	0.0	-14.1	0.0	-2.7	13.3	13.3	38.7	45.4	47.6	57.4
2U2	16:19:01	0.0	-19.2	0.0	-22.4	0.0	-11.4	0.0	0.0	15.4	14.8	39.1	46.1	48.3	57.8
2U3	16:24:27	0.0	-6.9	0.0	-10.2	0.0	-1.7	0.0	7.6	21.5	21.5	43.6	49.6	52.2	61.7
2U4	16:28:20	0.0	1.6	0.0	0.1	0.0	6.5	0.0	14.1	26.2	26.8	47.8	53.3	55.9	64.6
2U5	16:32:36	0.0	-0.1	0.0	-2.4	0.0	2.0	0.0	6.1	15.3	14.8	34.6	33.4	42.5	41.2
2U6	16:36:45	0.0	-0.4	0.0	-2.6	0.0	-0.6	0.0	2.2	9.1	9.6	26.7	26.2	33.5	32.5
2U7	16:40:55	0.0	-0.4	0.0	-3.9	0.0	-1.3	0.0	-2.7	2.0	1.6	16.2	17.1	21.5	21.5
2U8	16:44:54	0.0	2.0	0.0	-4.6	0.0	-2.9	0.0	-6.0	-4.8	-6.2	6.9	6.5	10.5	10.4
2U9	16:48:37	0.0	0.4	0.0	-5.8	0.0	-4.7	0.0	-10.4	-11.6	-12.6	-2.6	-3.5	-1.4	-0.2
2U9A	16:51:35	0.0	0.6	0.0	-5.7	0.0	-4.7	0.0	-10.4	-11.7	-12.8	-2.6	-3.6	-1.6	-0.3

Table F.27 continued

AVERAGE STRAIN AT EACH GAGE LEVEL, INTEGRATED PILE COMPRESSION & COMPARISON WITH TELLTALE MEASUREMENT (4 MINUTE READINGS)

VLW 4 LOAD NUMBER	CALC. MICRO STRAIN TT REF.	CALC. MICRO STRAIN SURFACE	VW MICRO STRAIN 2	VW MICRO STRAIN 32	VW MICRO STRAIN 34	VW MICRO STRAIN 20	AVG VW MICRO STRAIN 9+10	AVG VW MICRO STRAIN 11+12	AVG VW MICRO STRAIN 39+40	EST'D. MICRO STRAIN CELL TOP	PILE COMPRESSION SG MSMT. INCHES	TT MSMT. INCHES	ABS.DIFF. SG-TT INCHES
2L0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0000	0.0000	0.0000
2L1	-8.3	-8.3	-5.3	-7.4	-2.9	-3.7	-2.4	-1.8	-0.9	0.0	-0.0036	-0.0027	-0.0009
2L2	-11.3	-11.3	-6.6	-9.9	-4.6	-4.6	-3.4	-2.3	-1.0	0.0	-0.0049	-0.0037	-0.0012
2L3	-20.2	-20.2	-12.7	-16.9	-10.1	-9.2	-5.4	-3.6	-1.8	0.0	-0.0089	-0.0073	-0.0016
2L4	-25.4	-25.4	-17.3	-21.1	-14.3	-11.1	-8.4	-4.6	-2.7	0.0	-0.0117	-0.0097	-0.0020
2L5	-31.3	-31.3	-22.4	-26.3	-18.0	-15.0	-11.5	-5.6	-3.6	0.0	-0.0149	-0.0123	-0.0026
2L6	-31.3	-31.3	-22.3	-26.3	-17.5	-13.8	-8.0	-1.8	1.9	10.4	-0.0140	-0.0120	-0.0020
2L7	-31.3	-31.3	-22.2	-26.3	-17.4	-12.9	-7.2	-0.5	2.7	12.1	-0.0137	-0.0119	-0.0018
2L8	-31.3	-31.3	-22.1	-26.2	-16.9	-10.7	-4.8	3.8	8.3	17.9	-0.0128	-0.0113	-0.0015
2L9	-31.3	-31.3	-21.9	-25.9	-15.9	-7.6	1.4	13.7	20.1	29.7	-0.0109	-0.0098	-0.0011
2L10	-31.3	-31.3	-21.9	-25.7	-15.8	-5.1	6.8	23.3	31.7	41.3	-0.0093	-0.0082	-0.0012
2L11	-31.3	-31.3	-21.8	-25.5	-15.6	-3.4	12.6	33.5	42.4	52.8	-0.0077	-0.0067	-0.0011
2L12	-31.3	-31.3	-21.7	-25.3	-14.7	-1.7	17.4	43.2	54.5	64.3	-0.0062	-0.0052	-0.0010
2L13	-31.3	-31.3	-21.5	-24.6	-11.5	1.3	19.7	52.0	64.9	75.7	-0.0044	-0.0042	-0.0003
2L13A	-31.3	-31.3	-21.0	-24.3	-11.2	1.1	18.0	48.7	61.0	71.9	-0.0047	-0.0042	-0.0005
2U1	-31.3	-31.3	-21.2	-24.8	-14.1	-2.7	13.3	42.1	52.5	62.1	-0.0066	-0.0054	-0.0012
2U2	-31.3	-31.3	-19.2	-22.4	-11.4	0.0	15.1	42.6	53.0	62.1	-0.0051	-0.0044	-0.0007
2U3	-27.7	-27.7	-6.9	-10.2	-1.7	7.6	21.5	46.6	56.9	62.1	0.0015	0.0021	-0.0006
2U4	-11.9	-11.9	1.6	0.1	6.5	14.1	26.5	50.6	60.3	62.2	0.0080	0.0076	0.0004
2U5	0.0	0.0	-0.1	-2.4	2.0	6.1	15.1	34.0	41.9	39.1	0.0046	0.0044	0.0003
2U6	0.0	0.0	-0.4	-2.6	-0.6	2.2	9.3	26.5	33.0	31.2	0.0026	0.0029	-0.0002
2U7	0.0	0.0	-0.4	-3.9	-1.3	-2.7	1.8	16.6	21.5	20.5	0.0003	0.0007	-0.0003
2U8	0.0	0.0	2.0	-4.6	-2.9	-6.0	-5.5	6.7	10.4	9.9	-0.0016	-0.0014	-0.0002
2U9	0.0	0.0	0.4	-5.8	-4.7	-10.4	-12.1	-3.1	-0.8	0.0	-0.0040	-0.0029	-0.0011
2U9A	0.0	0.0	0.6	-5.7	-4.7	-10.4	-12.2	-3.1	-0.9	0.0	-0.0040	-0.0029	-0.0011

NOTE: STRAINS AT PILE TOP AND SURFACE CALCULATED FROM APPLIED LOAD. NO DATALOGGER READINGS FOR 2L13B.

ELEV. FT	9.17	4.57	-1.06	-11.81	-27.81	-35.81	-44.81	-52.81	-54.31	-54.81

Table F.27 continued

VIBRATING WIRE CALCULATED AVERAGE LOADS (4 MINUTE READINGS)

LA = 1.50 ft ACA = 317.115 si
LB = 0.50 ft ACB = 313.155 si
B = 18.00 in ASA = 3.538 si
ES = 27500.0 ksi ASB = 7.498 si

VLW 4 LOAD NUMBER	APPLIED LOAD TONS TT REF.	APPLIED LOAD TONS SURFACE	VW LOAD TONS 2	VW LOAD TONS 32	VW LOAD TONS 34	VW LOAD TONS 20	AVG VW LOAD TONS 9+10	AVG VW LOAD TONS 11+12	AVG VW LOAD TONS 39+40	OSTERBERG LOAD TONS BOTTOM	INCR. PILE MODULUS KSI	CALC. PILE A MODULUS KSI	CALC. PILE B MODULUS KSI
2L0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0		5293.3	5567.1
2L1	-7.1	-7.1	-4.50	-6.35	-2.52	-3.17	-2.02	-1.66	-0.80	0.0	0.0	5293.3	5567.1
2L2	-9.7	-9.7	-5.66	-8.50	-3.96	-3.93	-2.91	-2.11	-0.91	0.0	0.0	5293.3	5567.1
2L3	-17.3	-17.3	-10.93	-14.51	-8.64	-7.89	-4.63	-3.23	-1.66	0.0	0.0	5293.3	5567.1
2L4	-21.8	-21.8	-14.84	-18.12	-12.29	-9.56	-7.23	-4.17	-2.42	0.0	0.0	5293.3	5567.1
2L5	-26.8	-26.8	-19.17	-22.57	-15.43	-12.84	-9.90	-5.05	-3.25	0.0	0.0	5293.3	5567.1
2L6	-26.8	-26.8	-19.09	-22.52	-15.01	-11.82	-6.90	-1.59	1.70	9.4	10584.1	5293.3	5567.1
2L7	-26.8	-26.8	-19.03	-22.54	-14.94	-11.03	-6.20	-0.45	2.44	10.9	10875.1	5293.3	5567.1
2L8	-26.8	-26.8	-18.91	-22.46	-14.46	-9.16	-4.09	3.46	7.50	16.2	5844.9	5293.3	5567.1
2L9	-26.8	-26.8	-18.77	-22.17	-13.64	-6.52	1.20	12.35	18.10	26.8	5555.0	5293.3	5567.1
2L10	-26.8	-26.8	-18.74	-22.00	-13.53	-4.37	5.86	21.01	28.59	37.2	5559.6	5293.3	5567.1
2L11	-26.8	-26.8	-18.71	-21.83	-13.36	-2.87	10.78	30.23	38.22	47.6	6011.8	5293.3	5567.1
2L12	-26.8	-26.8	-18.60	-21.69	-12.57	-1.45	14.89	38.97	49.18	58.0	5256.9	5293.3	5567.1
2L13	-26.8	-26.8	-18.46	-21.09	-9.90	1.09	16.89	46.87	58.51	68.2	6113.1	5293.3	5567.1
2L13A	-26.8	-26.8	-18.03	-20.84	-9.64	0.93	15.43	43.94	55.05	64.9		5293.3	5567.1
2U1	-26.8	-26.8	-18.17	-21.29	-12.08	-2.33	11.38	37.93	47.33	56.0		5293.3	5567.1
2U2	-23.8	-23.8	-16.45	-19.20	-9.76	0.02	12.98	38.40	47.83	56.0		5293.3	5567.1
2U3	-10.2	-10.2	-5.91	-8.71	-1.46	6.51	18.42	42.02	51.34	56.0		5293.3	5567.1
2U4	0.0	0.0	1.34	0.10	5.57	12.06	22.74	45.60	54.35	56.1		5293.3	5567.1
2U5	0.0	0.0	-0.10	-2.08	1.75	5.24	12.91	30.68	37.75	35.3		5293.3	5567.1
2U6	0.0	0.0	-0.39	-2.25	-0.49	1.89	7.99	23.87	29.74	28.1		5293.3	5567.1
2U7	0.0	0.0	-0.35	-3.38	-1.09	-2.30	1.56	14.98	19.37	18.5		5293.3	5567.1
2U8	0.0	0.0	1.69	-3.92	-2.45	-5.13	-4.68	6.06	9.42	8.9		5293.3	5567.1
2U9	0.0	0.0	0.30	-4.94	-4.01	-8.90	-10.36	-2.77	-0.76	0.0		5293.3	5567.1
2U9A	0.0	0.0	0.53	-4.91	-4.01	-8.90	-10.48	-2.77	-0.85	0.0		5293.3	5567.1

ELEV. FT	9.17	4.57	-1.06	-11.81	-27.81	-35.81	-44.81	-52.81	-54.31	-54.81	5101.5 KSI = CONCRETE MODULUS

Table F.27 continued

INTEGRATED MOVEMENT AT VW STRAIN GAGE (4 MINUTE READINGS)

VLW 4 LOAD NUMBER	VW MOVEMENT INCHES SURFACE	VW MOVEMENT INCHES 2	VW MOVEMENT INCHES 32	VW MOVEMENT INCHES 34	VW MOVEMENT INCHES 20	VW MOVEMENT INCHES 9+10	VW MOVEMENT INCHES 11+12	VW MOVEMENT INCHES 39+40	VW MOVEMENT INCHES CELL TOP
2L0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2L1	0.0124	0.0120	0.0112	0.0102	0.0099	0.0095	0.0093	0.0093	0.0093
2L2	0.0146	0.0140	0.0129	0.0115	0.0111	0.0107	0.0104	0.0104	0.0104
2L3	0.0205	0.0194	0.0175	0.0149	0.0140	0.0132	0.0128	0.0127	0.0127
2L4	0.0226	0.0212	0.0187	0.0153	0.0141	0.0130	0.0124	0.0123	0.0123
2L5	0.0259	0.0241	0.0209	0.0167	0.0151	0.0137	0.0128	0.0128	0.0128
2L6	0.0303	0.0284	0.0253	0.0211	0.0196	0.0184	0.0180	0.0180	0.0180
2L7	0.0301	0.0283	0.0251	0.0209	0.0195	0.0184	0.0180	0.0181	0.0181
2L8	0.0348	0.0330	0.0299	0.0258	0.0244	0.0236	0.0236	0.0237	0.0238
2L9	0.0394	0.0376	0.0345	0.0305	0.0294	0.0291	0.0298	0.0301	0.0303
2L10	0.0444	0.0426	0.0396	0.0356	0.0346	0.0347	0.0361	0.0366	0.0368
2L11	0.0744	0.0726	0.0695	0.0656	0.0647	0.0652	0.0674	0.0681	0.0684
2L12	0.1042	0.1025	0.0994	0.0956	0.0948	0.0957	0.0986	0.0994	0.0998
2L13	0.2535	0.2517	0.2488	0.2453	0.2448	0.2459	0.2494	0.2504	0.2509
2L13A	0.5438	0.5421	0.5391	0.5357	0.5352	0.5363	0.5395	0.5405	0.5409
2U1	0.6795	0.6777	0.6747	0.6710	0.6702	0.6708	0.6734	0.6743	0.6746
2U2	0.6840	0.6823	0.6796	0.6764	0.6758	0.6766	0.6794	0.6803	0.6806
2U3	0.6740	0.6729	0.6718	0.6706	0.6709	0.6725	0.6758	0.6767	0.6771
2U4	0.6690	0.6686	0.6687	0.6694	0.6703	0.6725	0.6762	0.6772	0.6776
2U5	0.6547	0.6547	0.6546	0.6545	0.6549	0.6561	0.6584	0.6591	0.6594
2U6	0.6452	0.6452	0.6450	0.6447	0.6448	0.6454	0.6471	0.6477	0.6479
2U7	0.6303	0.6303	0.6300	0.6295	0.6293	0.6293	0.6302	0.6305	0.6307
2U8	0.6152	0.6153	0.6151	0.6144	0.6140	0.6134	0.6134	0.6136	0.6137
2U9	0.5961	0.5962	0.5958	0.5948	0.5941	0.5929	0.5921	0.5921	0.5921
2U9A	0.5961	0.5961	0.5958	0.5948	0.5941	0.5929	0.5921	0.5921	0.5921

Table F.27 continued

INTEGRATED MOVEMENT AT SEGMENT CL (4 MINUTE READINGS)

VLW 4 LOAD NUMBER CL.ELEV.	AVG VW MOVEMENT INCHES 1.76	AVG VW MOVEMENT INCHES -6.44	AVG VW MOVEMENT INCHES -19.81	AVG VW MOVEMENT INCHES -31.81	AVG VW MOVEMENT INCHES -40.31	AVG VW MOVEMENT INCHES -48.81	AVG VW MOVEMENT INCHES -53.56
2L0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2L1	0.0122	0.0116	0.0107	0.0100	0.0097	0.0094	0.0093
2L2	0.0143	0.0135	0.0122	0.0113	0.0109	0.0105	0.0104
2L3	0.0200	0.0184	0.0162	0.0144	0.0136	0.0130	0.0127
2L4	0.0219	0.0199	0.0170	0.0147	0.0135	0.0127	0.0123
2L5	0.0250	0.0225	0.0188	0.0159	0.0144	0.0133	0.0128
2L6	0.0293	0.0269	0.0232	0.0204	0.0190	0.0182	0.0180
2L7	0.0292	0.0267	0.0230	0.0202	0.0189	0.0182	0.0180
2L8	0.0339	0.0315	0.0278	0.0251	0.0240	0.0236	0.0236
2L9	0.0385	0.0361	0.0325	0.0300	0.0292	0.0294	0.0299
2L10	0.0435	0.0411	0.0376	0.0351	0.0346	0.0354	0.0364
2L11	0.0735	0.0710	0.0675	0.0651	0.0649	0.0663	0.0677
2L12	0.1034	0.1009	0.0975	0.0952	0.0952	0.0971	0.0990
2L13	0.2526	0.2503	0.2470	0.2451	0.2454	0.2477	0.2499
2L13A	0.5429	0.5406	0.5374	0.5355	0.5357	0.5379	0.5400
2U1	0.6786	0.6762	0.6729	0.6706	0.6705	0.6721	0.6738
2U2	0.6831	0.6809	0.6780	0.6761	0.6762	0.6780	0.6798
2U3	0.6735	0.6723	0.6712	0.6708	0.6717	0.6741	0.6762
2U4	0.6688	0.6687	0.6690	0.6699	0.6714	0.6744	0.6767
2U5	0.6547	0.6547	0.6546	0.6547	0.6555	0.6572	0.6588
2U6	0.6452	0.6451	0.6449	0.6447	0.6451	0.6463	0.6474
2U7	0.6303	0.6302	0.6298	0.6294	0.6293	0.6297	0.6304
2U8	0.6153	0.6152	0.6148	0.6142	0.6137	0.6134	0.6135
2U9	0.5961	0.5960	0.5953	0.5944	0.5935	0.5925	0.5921
2U9A	0.5961	0.5960	0.5953	0.5945	0.5935	0.5925	0.5921

Table F.27 continued

AVERAGE SEGMENT SHEAR STRESS (4 MINUTE READINGS)

VLW 4 LOAD NUMBER	AVG VW SHEAR TSF	AVG VW SHEAR TSF	AVG VW SHEAR TSF	AVG VW SHEAR TSF	AVG VW SHEAR TSF	AVG VW SHEAR TSF	AVG VW SHEAR TSF
CL.ELEV.	1.76	-6.44	-19.81	-31.81	-40.31	-48.81	-53.56
2L0	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016
2L1	0.060	-0.045	0.023	-0.030	0.005	-0.009	0.078
2L2	0.103	-0.060	0.031	-0.016	0.002	0.000	0.118
2L3	0.173	-0.072	0.045	-0.001	0.044	0.013	0.158
2L4	0.190	-0.067	0.044	0.040	0.027	0.047	0.179
2L5	0.210	-0.069	0.058	0.038	0.038	0.084	0.184
2L6	0.212	-0.070	0.062	0.050	0.075	0.094	0.350
2L7	0.214	-0.071	0.063	0.065	0.073	0.103	0.306
2L8	0.217	-0.071	0.067	0.094	0.077	0.141	0.433
2L9	0.222	-0.069	0.072	0.132	0.126	0.216	0.623
2L10	0.222	-0.067	0.072	0.174	0.173	0.299	0.827
2L11	0.223	-0.065	0.072	0.202	0.236	0.389	0.873
2L12	0.227	-0.064	0.079	0.215	0.286	0.485	1.119
2L13	0.231	-0.057	0.100	0.213	0.276	0.608	1.279
2L13A	0.243	-0.060	0.100	0.204	0.252	0.577	1.221
2U1	0.239	-0.065	0.080	0.187	0.238	0.537	1.030
2U2	0.200	-0.059	0.082	0.187	0.224	0.513	1.034
2U3	0.112	-0.060	0.059	0.150	0.204	0.475	1.022
2U4	0.023	-0.036	0.041	0.119	0.181	0.460	0.957
2U5	-0.019	-0.047	0.023	0.056	0.126	0.354	0.771
2U6	-0.028	-0.045	0.002	0.033	0.097	0.314	0.637
2U7	-0.027	-0.063	0.007	-0.042	0.055	0.263	0.472
2U8	0.034	-0.103	-0.001	-0.072	-0.008	0.207	0.357
2U9	-0.007	-0.098	-0.007	-0.118	-0.043	0.142	0.208
2U9A	-0.001	-0.101	-0.007	-0.118	-0.046	0.144	0.198

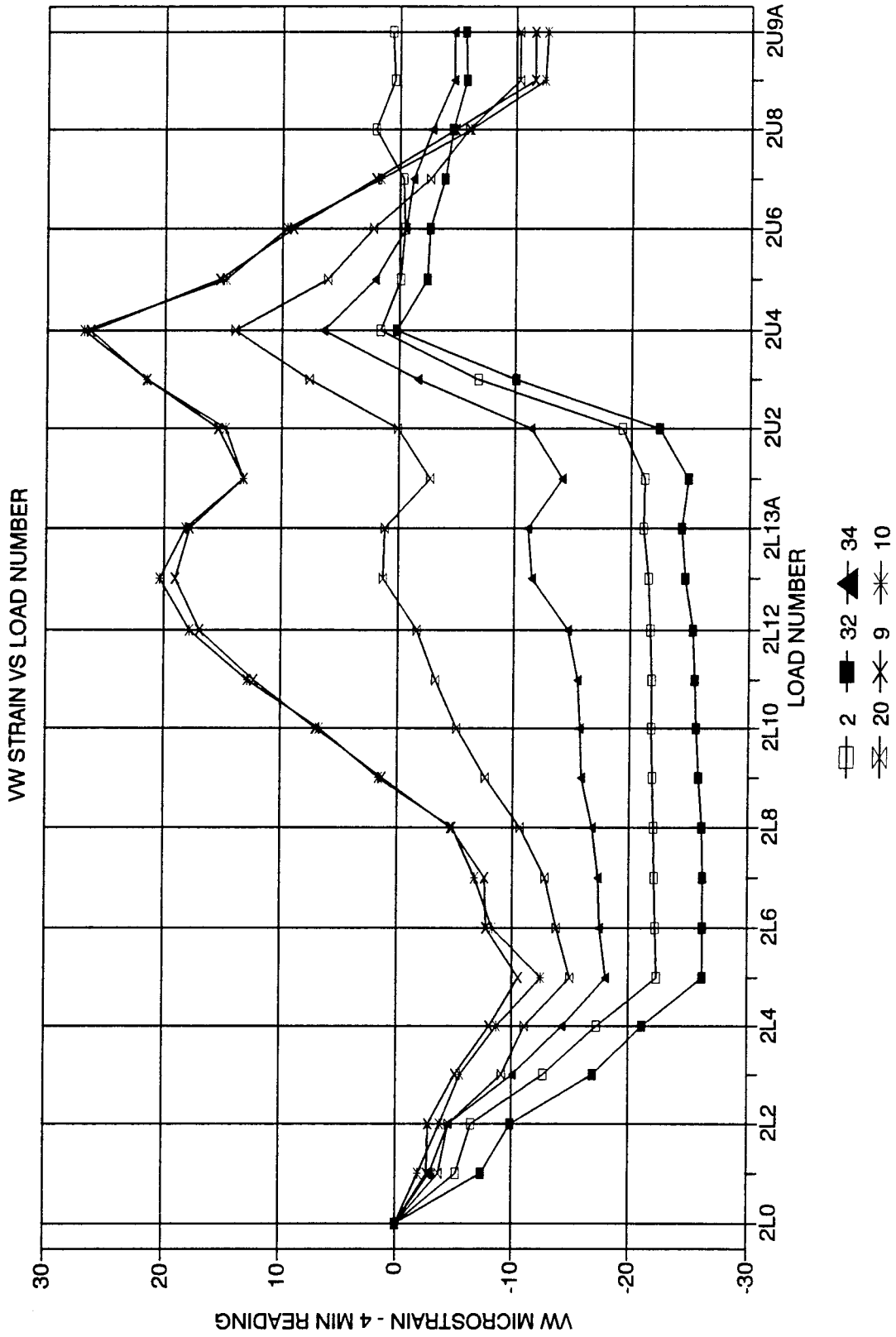

Figure F.143 Strain at Pile Top: Vilano West Load Test 4

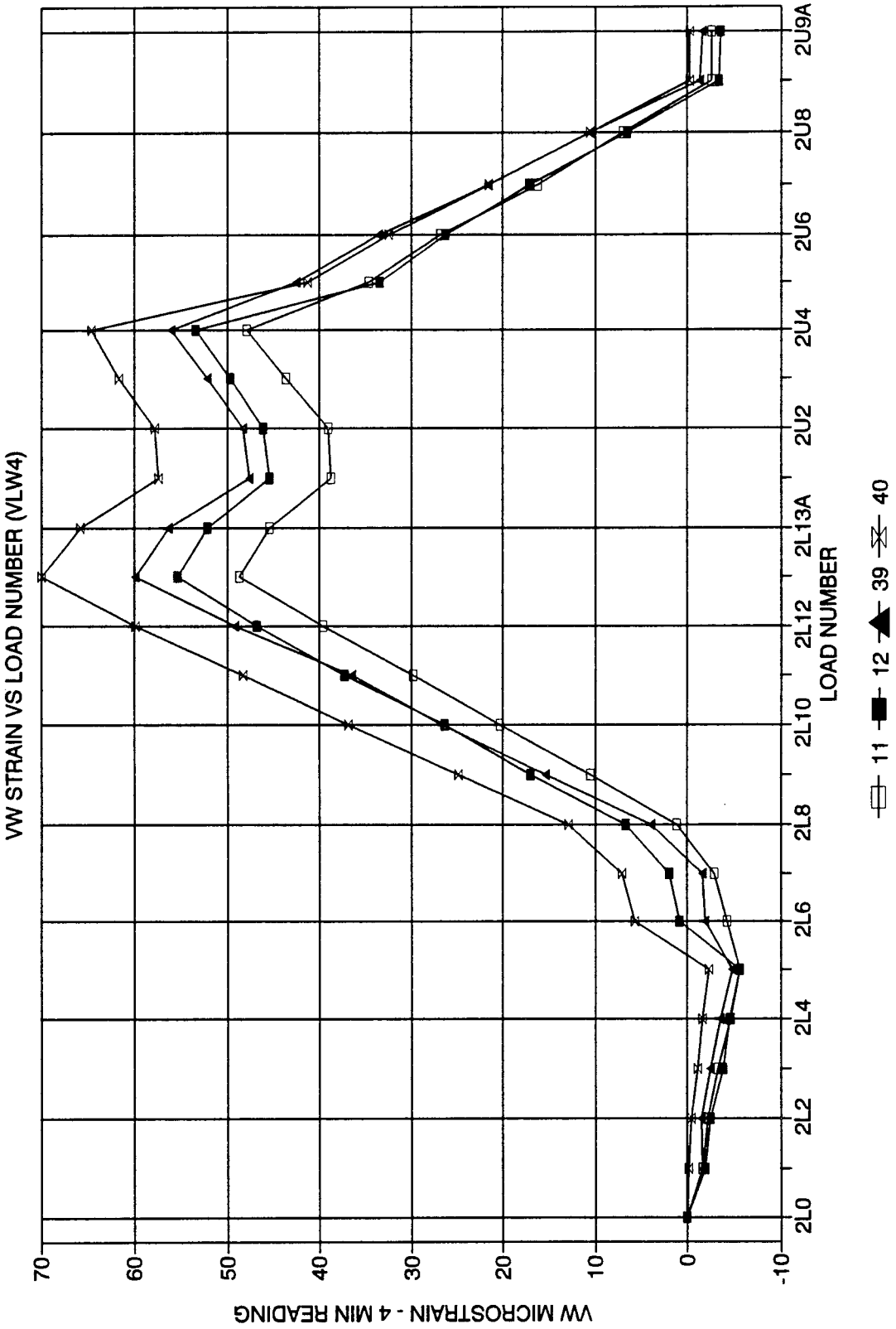

Figure F.144 Strain at Pile Bottom: Vilano West Load Test 4

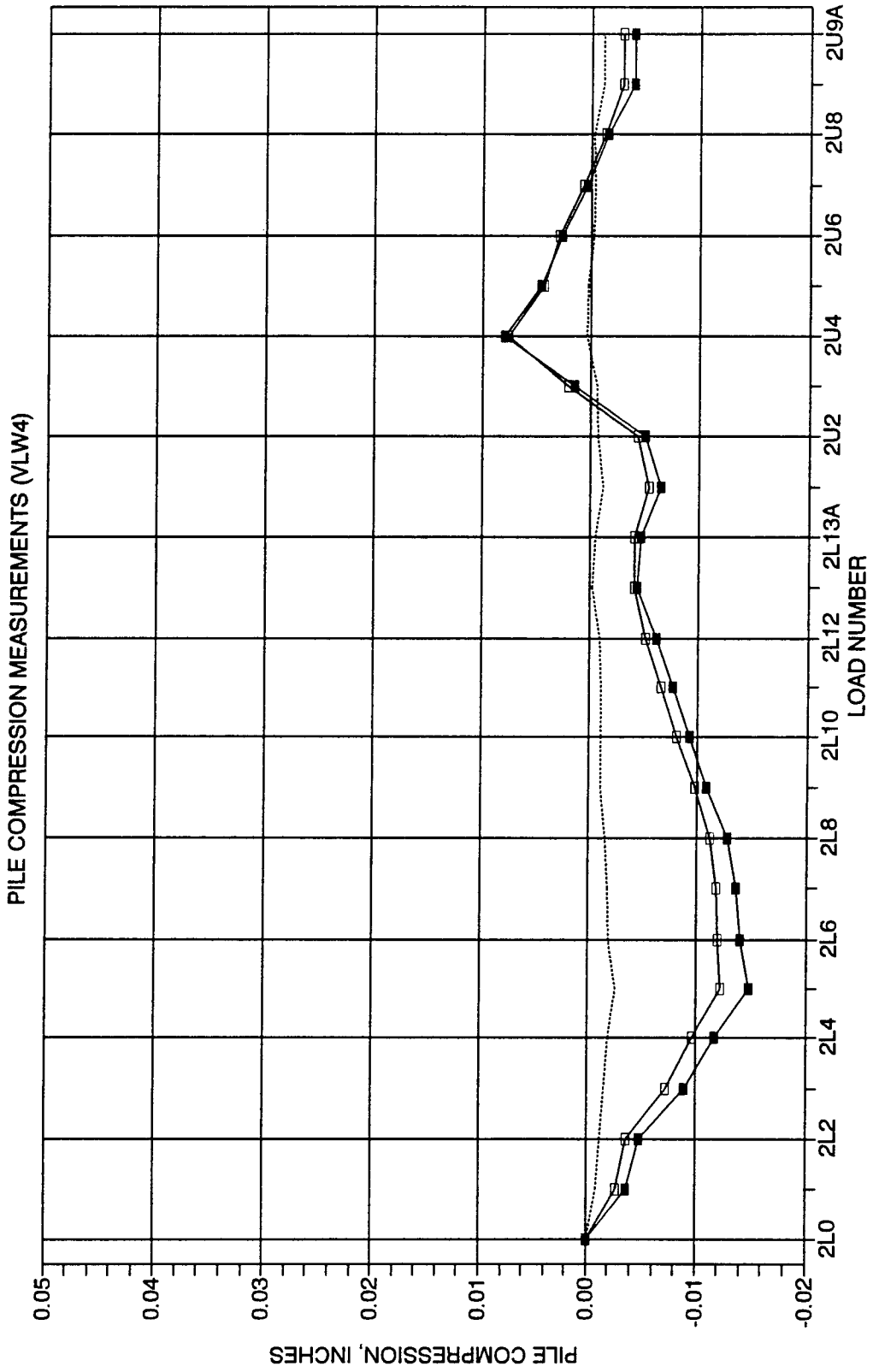

Figure F.145 Pile Compression Measurements: Vilano West Load Test 4

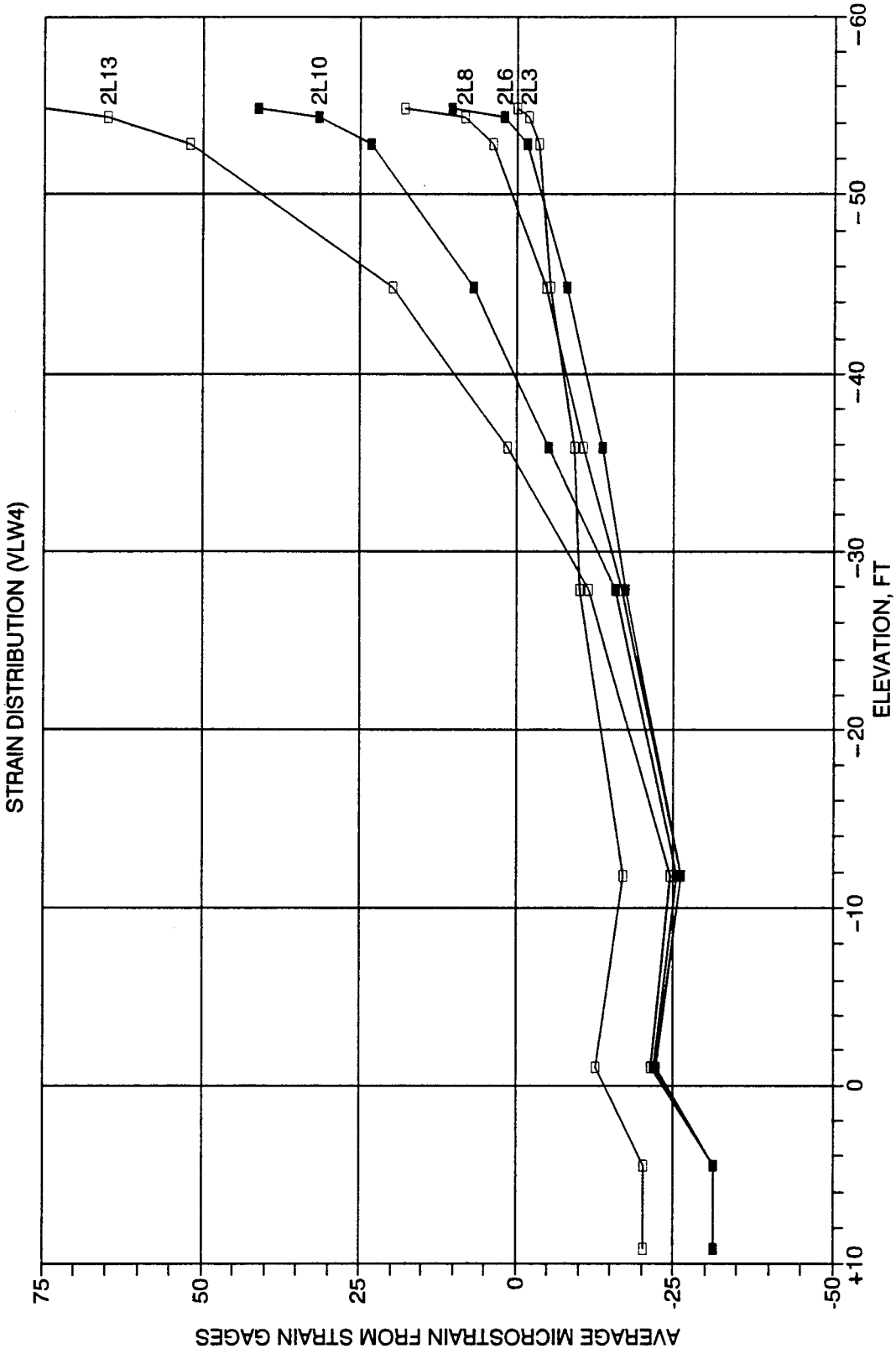

Figure F.146 Pile Strain Distribution: Vilano West Load Test 4

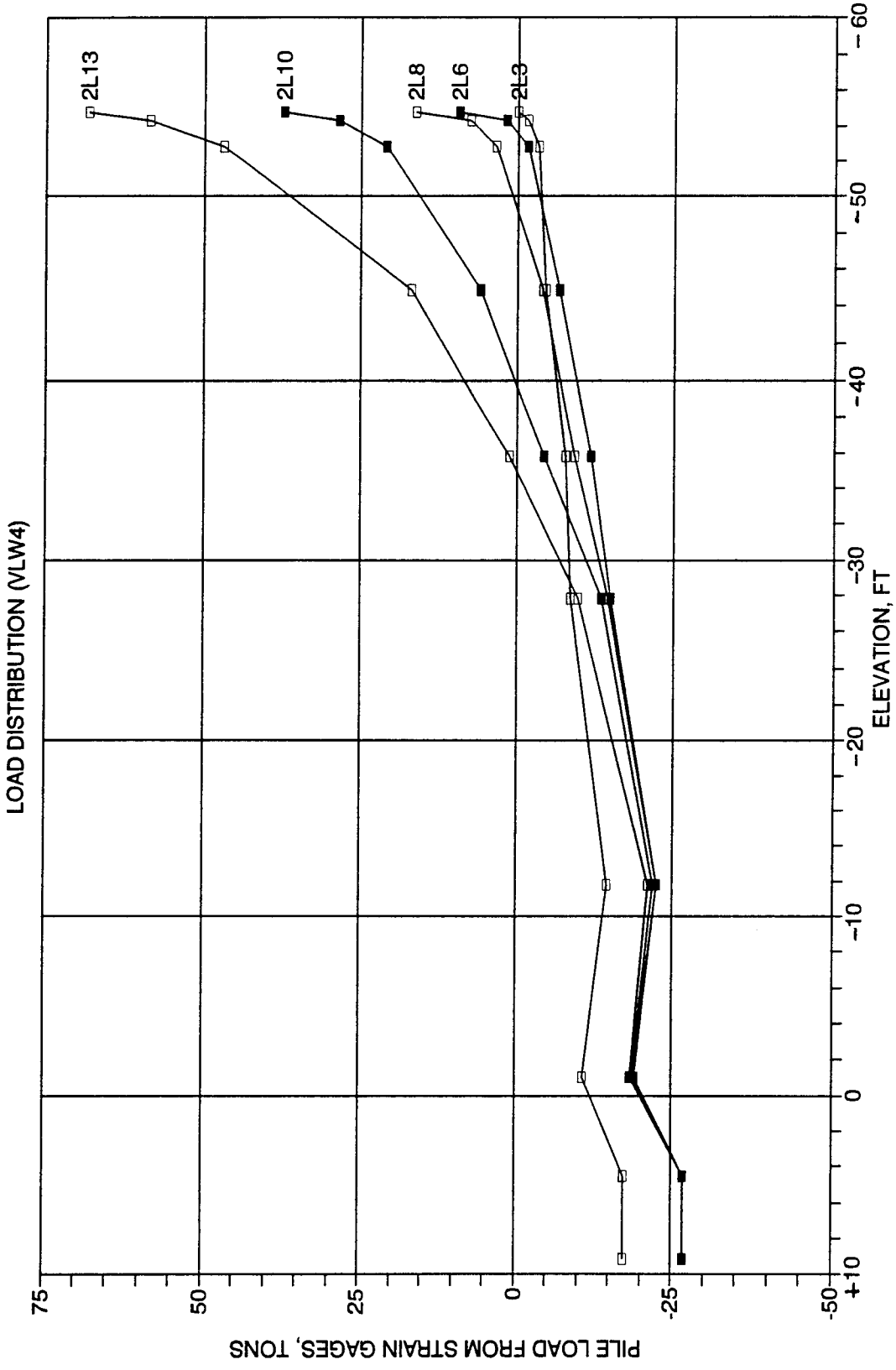

Figure F.147 Pile Load Distribution: Vilano West Load Test 4

Table F.28 Strain Analyses: Seabreeze Load Test 1

VIBRATING WIRE INSTRUMENT READINGS - STRAIN

SBZ 1 LOAD NUMBER	TIME	VW STRN FREQ^2 KHZ^2 29	VW STRN FREQ^2 KHZ^2 30	VW STRN FREQ^2 KHZ^2 5	VW STRN FREQ^2 KHZ^2 6	VW STRN FREQ^2 KHZ^2 37	VW STRN FREQ^2 KHZ^2 38	VW STRN FREQ^2 KHZ^2 23	VW STRN FREQ^2 KHZ^2 24	VW STRN FREQ^2 KHZ^2 25	VW STRN FREQ KHZ^2 26	VW STRN FREQ KHZ^2 27	VW STRN FREQ KHZ^2 28
L0	23:05:04	0.66641	0.78933	0.65895	0.61701	0.70247	0.65722	0.73155	0.65300	0.69274	0.74858	0.85552	0.78673
L0	23:20:04	0.66645	0.78926	0.65886	0.61684	0.70223	0.65706	0.73129	0.65283	0.69242	0.74845	0.85546	0.78665
L0	23:35:04	0.66648	0.78921	0.65881	0.61675	0.70226	0.65693	0.73108	0.65274	0.69222	0.74825	0.85541	0.78660
L0	23:47:31	0.66648	0.78916	0.65874	0.61671	0.70233	0.65688	0.73096	0.65261	0.69209	0.74815	0.85538	0.78655
L0	23:53:11	0.66650	0.78915	0.65874	0.61669	0.70252	0.65685	0.73097	0.65249	0.69203	0.74811	0.85537	0.78652
L1	00:01:04	0.66650	0.78914	0.65874	0.61673	0.70249	0.65682	0.73100	0.65225	0.69190	0.74802	0.85528	0.78633
L1	00:01:36	0.66650	0.78915	0.65873	0.61673	0.70248	0.65681	0.73099	0.65225	0.69189	0.74803	0.85528	0.78633
L1	00:02:36	0.66649	0.78915	0.65872	0.61668	0.70249	0.65681	0.73098	0.65225	0.69188	0.74801	0.85528	0.78634
L1	00:04:35	0.66649	0.78915	0.65874	0.61673	0.70241	0.65680	0.73097	0.65222	0.69187	0.74801	0.85527	0.78634
L2	00:07:08	0.66650	0.78924	0.65872	0.61672	0.70251	0.65678	0.73090	0.65224	0.69179	0.74795	0.85521	0.78622
L2	00:07:40	0.66651	0.78914	0.65872	0.61671	0.70251	0.65678	0.73090	0.65221	0.69178	0.74794	0.85523	0.78621
L2	00:08:38	0.66650	0.78923	0.65872	0.61671	0.70250	0.65679	0.73089	0.65222	0.69178	0.74795	0.85523	0.78621
L2	00:10:39	0.66650	0.78923	0.65871	0.61667	0.70251	0.65677	0.73088	0.65223	0.69176	0.74793	0.85523	0.78620
L3	00:13:00	0.66650	0.78914	0.65871	0.61666	0.70254	0.65674	0.73081	0.65218	0.69166	0.74787	0.85520	0.78615
L3	00:13:30	0.66650	0.78922	0.65870	0.61666	0.70250	0.65674	0.73080	0.65219	0.69167	0.74785	0.85521	0.78615
L3	00:14:29	0.66650	0.78915	0.65870	0.61666	0.70248	0.65674	0.73080	0.65218	0.69165	0.74786	0.85521	0.78616
L3	00:16:29	0.66649	0.78915	0.65871	0.61666	0.70253	0.65673	0.73078	0.65217	0.69165	0.74785	0.85521	0.78615
L4	00:17:56	0.66649	0.78914	0.65869	0.61668	0.70248	0.65670	0.73071	0.65211	0.69154	0.74779	0.85519	0.78572
L4	00:18:34	0.66651	0.78921	0.65869	0.61668	0.70246	0.65670	0.73071	0.65211	0.69155	0.74779	0.85521	0.78571
L4	00:19:26	0.66650	0.78923	0.65869	0.61664	0.70249	0.65670	0.73070	0.65210	0.69151	0.74777	0.85521	0.78572
L4	00:21:26	0.66649	0.78914	0.65869	0.61665	0.70246	0.65669	0.73069	0.65209	0.69150	0.74779	0.85522	0.78574
L5	00:23:14	0.66651	0.78914	0.65867	0.61664	0.70244	0.65665	0.73060	0.65206	0.69141	0.74770	0.85520	0.78534
L5	00:23:48	0.66650	0.78914	0.65866	0.61666	0.70241	0.65664	0.73060	0.65206	0.69141	0.74769	0.85521	0.78534
L5	00:24:43	0.66650	0.78914	0.65866	0.61664	0.70240	0.65664	0.73057	0.65205	0.69141	0.74770	0.85521	0.78536
L5	00:26:43	0.66650	0.78921	0.65866	0.61664	0.70240	0.65663	0.73059	0.65206	0.69140	0.74769	0.85522	0.78535
L6	00:28:24	0.66649	0.78914	0.65863	0.61663	0.70236	0.65660	0.73047	0.65202	0.69128	0.74757	0.85515	0.78498
L6	00:28:56	0.66649	0.78921	0.65864	0.61664	0.70234	0.65660	0.73047	0.65202	0.69130	0.74757	0.85515	0.78499
L6	00:29:53	0.66650	0.78914	0.65863	0.61664	0.70233	0.65659	0.73043	0.65202	0.69129	0.74757	0.85516	0.78498
L6	00:31:54	0.66649	0.78914	0.65864	0.61663	0.70233	0.65660	0.73044	0.65203	0.69124	0.74757	0.85517	0.78500
L7	00:33:39	0.66650	0.78915	0.65858	0.61662	0.70222	0.65654	0.73030	0.65190	0.69102	0.74740	0.85501	0.78440
L7	00:34:13	0.66649	0.78920	0.65858	0.61661	0.70222	0.65655	0.73030	0.65189	0.69102	0.74742	0.85503	0.78441
L7	00:35:13	0.66649	0.78914	0.65858	0.61661	0.70222	0.65655	0.73034	0.65189	0.69104	0.74740	0.85502	0.78441
L7	00:37:10	0.66648	0.78920	0.65856	0.61660	0.70221	0.65655	0.73034	0.65187	0.69102	0.74740	0.85501	0.78441
L8	00:38:45	0.66648	0.78914	0.65843	0.61654	0.70198	0.65628	0.73010	0.65147	0.69056	0.74697	0.85461	0.78303
L8	00:39:15	0.66648	0.78919	0.65841	0.61654	0.70200	0.65627	0.73007	0.65146	0.69053	0.74697	0.85453	0.78296
L8	00:40:15	0.66647	0.78920	0.65841	0.61653	0.70199	0.65625	0.73006	0.65145	0.69051	0.74697	0.85461	0.78290
L8	00:42:15	0.66647	0.78918	0.65840	0.61653	0.70197	0.65624	0.73003	0.65144	0.69046	0.74697	0.85463	0.78285
L9	00:44:24	0.66643	0.78910	0.65820	0.61634	0.70167	0.65593	0.72928	0.65084	0.68930	0.74581	0.85286	0.78039
L9	00:44:57	0.66643	0.78911	0.65821	0.61634	0.70171	0.65595	0.72927	0.65082	0.68926	0.74577	0.85280	0.78029
L9	00:45:49	0.66643	0.78910	0.65821	0.61634	0.70169	0.65594	0.72923	0.65078	0.68919	0.74570	0.85270	0.78013
L9	00:47:59	0.66643	0.78909	0.65821	0.61635	0.70169	0.65594	0.72920	0.65070	0.68908	0.74562	0.85257	0.77982
L10	00:49:38	0.66638	0.78907	0.65798	0.61613	0.70082	0.65551	0.72854	0.64977	0.68756	0.74415	0.85044	0.77706
L10	00:50:07	0.66639	0.78908	0.65800	0.61614	0.70082	0.65552	0.72854	0.64979	0.68750	0.74411	0.85036	0.77696

Table F.28 continued

VIBRATING WIRE INSTRUMENT READINGS - STRAIN

SBZ 1 LOAD NUMBER	TIME	VW STRN FREQ^2 KHZ^2 29	VW STRN FREQ^2 KHZ^2 30	VW STRN FREQ^2 KHZ^2 5	VW STRN FREQ^2 KHZ^2 6	VW STRN FREQ^2 KHZ^2 37	VW STRN FREQ^2 KHZ^2 38	VW STRN FREQ^2 KHZ^2 23	VW STRN FREQ^2 KHZ^2 24	VW STRN FREQ^2 KHZ^2 25	VW STRN FREQ KHZ^2 26	VW STRN FREQ KHZ^2 27	VW STRN FREQ KHZ^2 28
L10	00:51:07	0.66639	0.78909	0.65803	0.61614	0.70085	0.65551	0.72851	0.64969	0.68743	0.74404	0.85026	0.77680
L10	00:53:05	0.66638	0.78918	0.65805	0.61613	0.70083	0.65551	0.72847	0.64960	0.68731	0.74394	0.85006	0.77643
L11	00:54:42	0.66634	0.78911	0.65696	0.61597	0.70079	0.65511	0.72739	0.64877	0.68544	0.74217	0.84752	0.77335
L11	00:55:11	0.66635	0.78906	0.65698	0.61597	0.70082	0.65514	0.72739	0.64879	0.68539	0.74217	0.84749	0.77329
L11	00:56:11	0.66635	0.78908	0.65700	0.61597	0.70081	0.65515	0.72739	0.64877	0.68534	0.74210	0.84739	0.77307
L11	00:58:11	0.66634	0.78913	0.65699	0.61596	0.70080	0.65512	0.72737	0.64872	0.68515	0.74192	0.84720	0.77285
L12	01:00:00	0.66630	0.78904	0.65673	0.61565	0.70051	0.65475	0.72621	0.64766	0.68309	0.73976	0.84432	0.76935
L12	01:00:39	0.66631	0.78909	0.65681	0.61567	0.70052	0.65472	0.72620	0.64765	0.68301	0.73972	0.84422	0.76922
L12	01:01:29	0.66630	0.78904	0.65674	0.61569	0.70055	0.65473	0.72619	0.64766	0.68301	0.73973	0.84420	0.76912
L12	01:03:34	0.66631	0.78905	0.65674	0.61564	0.70050	0.65471	0.72613	0.64761	0.68261	0.73956	0.84408	0.76889
L13	01:05:06	0.66627	0.78903	0.65757	0.61536	0.70008	0.65443	0.72517	0.64646	0.68047	0.73723	0.84120	0.76544
L13	01:05:38	0.66628	0.78900	0.65757	0.61537	0.70009	0.65444	0.72513	0.64643	0.68037	0.73728	0.84114	0.76540
L13	01:06:36	0.66628	0.78899	0.65759	0.61537	0.70008	0.65445	0.72510	0.64640	0.68029	0.73722	0.84109	0.76532
L13	01:08:33	0.66628	0.78900	0.65757	0.61537	0.70006	0.65447	0.72506	0.64637	0.68025	0.73713	0.84093	0.76509
L14	01:10:12	0.66624	0.78893	0.65744	0.61523	0.69977	0.65399	0.72396	0.64524	0.67782	0.73487	0.83786	0.76137
L14	01:10:41	0.66626	0.78895	0.65748	0.61526	0.69996	0.65406	0.72398	0.64523	0.67778	0.73480	0.83770	0.76132
L14	01:11:47	0.66626	0.78895	0.65749	0.61526	0.70000	0.65411	0.72399	0.64527	0.67775	0.73481	0.83775	0.76134
L14	01:13:40	0.66625	0.78894	0.65747	0.61526	0.70001	0.65414	0.72396	0.64522	0.67763	0.73467	0.83736	0.76113
L15	01:15:19	0.66622	0.78886	0.65726	0.61510	0.69933	0.65380	0.72272	0.64409	0.67523	0.73211	0.83433	0.75740
L15	01:15:49	0.66622	0.78888	0.65727	0.61511	0.69934	0.65388	0.72283	0.64409	0.67511	0.73209	0.83425	0.75723
L15	01:16:48	0.66622	0.78890	0.65730	0.61514	0.69938	0.65392	0.72275	0.64415	0.67511	0.73205	0.83413	0.75713
L15	01:18:46	0.66623	0.78891	0.65731	0.61513	0.69944	0.65397	0.72284	0.64417	0.67505	0.73204	0.83400	0.75695
L16	01:20:32	0.66618	0.78884	0.65703	0.61486	0.69986	0.65373	0.72141	0.64300	0.67276	0.72933	0.83076	0.75311
L16	01:21:53	0.66619	0.78887	0.65707	0.61488	0.69965	0.65388	0.72150	0.64302	0.67273	0.72923	0.83078	0.75290
L16	01:23:59	0.66620	0.78889	0.65708	0.61488	0.69931	0.65393	0.72150	0.64305	0.67263	0.72905	0.83065	0.75272
L17	01:25:51	0.66614	0.78880	0.65654	0.61459	0.69948	0.65339	0.71992	0.64170	0.67024	0.72627	0.82754	0.74915
L17	01:26:17	0.66612	0.78879	0.65642	0.61459	0.69950	0.65343	0.71990	0.64167	0.67028	0.72628	0.82761	0.74886
L17	01:27:17	0.66612	0.78879	0.65630	0.61459	0.69947	0.65343	0.71981	0.64162	0.67016	0.72624	0.82736	0.74854
L17	01:29:17	0.66608	0.78878	0.65615	0.61457	0.69939	0.65341	0.71986	0.64156	0.66989	0.72623	0.82717	0.74821
L18	01:30:47	0.66601	0.78872	0.65554	0.61444	0.69882	0.65295	0.71892	0.64085	0.66907	0.72555	0.82629	0.74638
L18	01:31:39	0.66599	0.78871	0.65636	0.61427	0.69862	0.65286	0.71853	0.64076	0.66887	0.72574	0.82607	0.74565
L18	01:32:51	0.66596	0.78870	0.65621	0.61410	0.69843	0.65251	0.71833	0.64060	0.66869	0.72576	0.82631	0.74508
L18	01:34:17	0.66589	0.78871	0.65604	0.61393	0.69816	0.65227	0.71827	0.64056	0.66819	0.72589	0.82636	0.74471
L19	01:36:24	0.66577	0.78875	0.65551	0.61352	0.69830	0.65201	0.71827	0.64020	0.66799	0.72618	0.82653	0.74409
U1	01:40:05	0.66585	0.78890	0.65577	0.61380	0.69825	0.65221	0.71862	0.64082	0.66935	0.72759	0.82812	0.74627
U2	01:44:17	0.66683	0.78943	0.65857	0.61654	0.70224	0.65686	0.72539	0.64735	0.67880	0.73724	0.84388	0.76152
U3	01:48:12	0.66710	0.78960	0.65986	0.61779	0.70375	0.65862	0.72772	0.64959	0.68239	0.74073	0.84911	0.76783
U4	01:52:31	0.66790	0.79032	0.66318	0.62109	0.70862	0.66356	0.73533	0.65709	0.69388	0.75171	0.86367	0.78664
U5	01:56:31	0.66776	0.79033	0.66528	0.62282	0.71070	0.66659	0.74073	0.66199	0.70428	0.75918	0.87354	0.80360
U5A	01:59:30	0.66776	0.79031	0.66513	0.62282	0.71072	0.66669	0.74073	0.66201	0.70401	0.75899	0.87316	0.80350
U5A	02:14:30	0.66777	0.79034	0.66470	0.62309	0.71092	0.66686	0.74083	0.66199	0.70369	0.75855	0.87312	0.80350

Table F.28 continued

VIBRATING WIRE INSTRUMENT READINGS - TEMPERATURE

SBZ 1 LOAD NUMBER	TIME	VW STRN TEMP DEG C 29	VW STRN TEMP DEG C 30	VW STRN TEMP DEG C 5	VW STRN TEMP DEG C 6	VW STRN TEMP DEG C 37	VW STRN TEMP DEG C 38	VW STRN TEMP DEG C 23	VW STRN TEMP DEG C 24	VW STRN TEMP DEG C 25	VW STRN TEMP DEG C 26	VW STRN TEMP DEG C 27	VW STRN TEMP DEG C 28
L0	23:05:04	23.531	23.372	23.722	23.818	24.107	24.172	23.658	23.435	22.740	22.678	23.594	23.946
L0	23:20:04	23.563	23.435	23.754	23.818	24.139	24.172	23.658	23.467	22.772	22.709	23.658	23.946
L0	23:35:04	23.594	23.435	23.754	23.818	24.139	24.204	23.658	23.467	22.835	22.740	23.658	23.978
L0	23:47:31	23.626	23.467	23.754	23.850	24.139	24.365	23.690	23.467	22.835	22.803	23.658	24.011
L0	23:53:11	23.626	23.467	23.786	23.850	24.139	24.204	23.690	23.467	22.835	22.772	23.658	24.011
L1	00:01:04	23.626	23.467	23.786	23.850	24.172	24.204	23.690	23.499	22.866	22.803	23.690	23.978
L1	00:01:36	23.658	23.467	23.818	23.850	24.172	24.204	23.690	23.499	22.835	22.803	23.658	23.978
L1	00:02:36	23.658	23.467	23.786	23.850	24.204	24.236	23.722	23.499	22.866	22.835	23.690	23.978
L1	00:04:35	23.658	23.531	23.818	23.882	24.172	24.333	23.690	23.531	22.866	22.803	23.658	24.011
L2	00:07:08	23.658	23.499	23.786	23.882	24.172	24.365	23.690	23.499	22.866	22.803	23.658	23.978
L2	00:07:40	23.690	23.531	23.786	23.882	24.204	24.365	23.690	23.499	22.898	22.803	23.690	24.011
L2	00:08:38	23.658	23.531	23.786	23.882	24.204	24.333	23.690	23.499	22.898	22.866	23.658	24.011
L2	00:10:39	23.658	23.499	23.786	23.914	24.204	24.365	23.690	23.531	22.898	22.835	23.690	24.043
L3	00:13:00	23.658	23.499	23.818	23.882	24.172	24.333	23.690	23.499	22.866	22.866	23.722	24.011
L3	00:13:30	23.658	23.531	23.818	23.914	24.172	24.236	23.722	23.531	22.898	22.835	23.722	24.043
L3	00:14:29	23.658	23.499	23.818	23.882	24.172	24.333	23.690	23.499	22.898	22.835	23.722	24.011
L3	00:16:29	23.658	23.531	23.818	23.882	24.204	24.333	23.690	23.499	22.929	22.866	23.722	24.011
L4	00:17:56	23.658	23.499	23.850	23.882	24.172	24.333	23.722	23.499	22.898	22.835	23.690	24.011
L4	00:18:34	23.690	23.531	23.818	23.914	24.172	24.333	23.690	23.531	22.898	22.866	23.690	24.011
L4	00:19:26	23.690	23.531	23.818	23.914	24.172	24.365	23.690	23.531	22.929	22.866	23.690	24.043
L4	00:21:26	23.690	23.531	23.818	23.882	24.204	24.333	23.690	23.531	22.929	22.866	23.690	24.043
L5	00:23:14	23.690	23.563	23.818	23.946	24.172	24.236	23.722	23.531	22.898	22.898	23.690	24.043
L5	00:23:48	23.690	23.563	23.818	23.914	24.172	24.365	23.690	23.499	22.929	22.898	23.722	24.011
L5	00:24:43	23.690	23.563	23.818	23.914	24.172	24.365	23.722	23.531	22.898	22.898	23.690	24.011
L5	00:26:43	23.690	23.531	23.818	23.914	24.172	24.236	23.722	23.531	22.898	22.866	23.690	24.011
L6	00:28:24	23.690	23.531	23.850	23.946	24.204	24.333	23.722	23.563	22.898	22.866	23.722	24.043
L6	00:28:56	23.690	23.531	23.850	23.914	24.172	24.236	23.722	23.531	22.929	22.866	23.722	24.043
L6	00:29:53	23.690	23.531	23.818	23.914	24.172	24.333	23.690	23.563	22.898	22.866	23.690	24.043
L6	00:31:54	23.690	23.563	23.818	23.946	24.172	24.365	23.722	23.563	22.898	22.898	23.690	24.043
L7	00:33:39	23.690	23.531	23.850	23.914	24.172	24.365	23.722	23.563	22.929	22.898	23.722	24.043
L7	00:34:13	23.722	23.531	23.818	23.914	24.204	24.365	23.722	23.531	22.961	22.898	23.722	24.011
L7	00:35:13	23.722	23.531	23.850	23.946	24.204	24.333	23.722	23.563	22.961	22.898	23.722	24.043
L7	00:37:10	23.722	23.563	23.818	23.946	24.204	24.268	23.722	23.563	22.961	22.929	23.690	24.043
L8	00:38:45	23.690	23.563	23.818	23.914	24.172	24.365	23.722	23.531	22.961	22.929	23.722	24.011
L8	00:39:15	23.722	23.594	23.850	23.946	24.204	24.236	23.754	23.563	22.929	22.929	23.722	24.043
L8	00:40:15	23.690	23.563	23.818	23.914	24.236	24.365	23.722	23.563	22.961	22.929	23.690	24.043
L8	00:42:15	23.690	23.594	23.818	23.946	24.236	24.365	23.722	23.563	22.961	22.929	23.690	24.043
L9	00:44:24	23.754	23.563	23.818	23.946	24.333	24.333	23.754	23.531	22.929	22.898	23.690	24.043
L9	00:44:57	23.754	23.563	23.850	23.946	24.236	24.333	23.754	23.563	22.929	22.898	23.690	24.043
L9	00:45:49	23.722	23.594	23.818	23.914	24.204	24.333	23.754	23.531	22.929	22.898	23.690	24.011
L9	00:47:59	23.722	23.563	23.818	23.914	24.204	24.333	23.722	23.563	22.961	22.929	23.690	24.043
L10	00:49:38	23.722	23.594	23.818	23.914	24.333	24.236	23.754	23.531	22.961	22.929	23.690	24.011
L10	00:50:07	23.754	23.563	23.818	23.914	24.333	24.333	23.722	23.531	22.961	22.929	23.690	24.043

Table F.28 continued

VIBRATING WIRE INSTRUMENT READINGS - TEMPERATURE

SBZ 1 LOAD NUMBER	TIME	VW STRN TEMP DEG C 29	VW STRN TEMP DEG C 30	VW STRN TEMP DEG C 5	VW STRN TEMP DEG C 6	VW STRN TEMP DEG C 37	VW STRN TEMP DEG C 38	VW STRN TEMP DEG C 23	VW STRN TEMP DEG C 24	VW STRN TEMP DEG C 25	VW STRN TEMP DEG C 26	VW STRN TEMP DEG C 27	VW STRN TEMP DEG C 28
L10	00:51:07	23.722	23.563	23.818	23.946	24.204	24.268	23.754	23.563	22.961	22.929	23.722	24.043
L10	00:53:05	23.722	23.563	23.818	23.946	24.333	24.333	23.754	23.563	22.961	22.898	23.722	24.043
L11	00:54:42	23.722	23.626	23.882	23.914	24.204	24.333	23.722	23.531	22.961	22.961	23.722	24.011
L11	00:55:11	23.722	23.594	23.850	23.946	24.365	24.365	23.722	23.563	22.992	22.961	23.690	24.043
L11	00:56:11	23.722	23.594	23.882	23.946	24.333	24.333	23.722	23.531	22.961	22.961	23.690	24.011
L11	00:58:11	23.722	23.626	23.882	23.946	24.333	24.365	23.754	23.563	22.961	22.961	23.722	24.075
L12	01:00:00	23.754	23.594	23.850	23.978	24.236	24.333	23.722	23.563	22.961	22.929	23.722	24.043
L12	01:00:39	23.754	23.594	23.850	23.946	24.204	24.301	23.722	23.531	22.961	22.961	23.690	24.075
L12	01:01:29	23.754	23.594	23.850	23.978	24.365	24.333	23.754	23.563	22.992	22.929	23.722	24.075
L12	01:03:34	23.754	23.594	23.850	23.946	24.204	24.301	23.722	23.531	23.024	22.929	23.722	24.075
L13	01:05:06	23.754	23.626	23.882	23.946	24.204	24.333	23.754	23.531	22.992	22.929	23.754	24.043
L13	01:05:38	23.754	23.594	23.850	23.978	24.204	24.365	23.754	23.563	22.992	22.961	23.754	24.043
L13	01:06:36	23.754	23.594	23.882	23.946	24.204	24.301	23.722	23.531	22.992	22.929	23.754	24.043
L13	01:08:33	23.754	23.594	23.850	23.978	24.204	24.333	23.722	23.531	22.992	22.929	23.754	24.075
L14	01:10:12	23.754	23.594	23.882	23.946	24.365	24.333	23.722	23.531	23.024	22.929	23.722	24.043
L14	01:10:41	23.786	23.594	23.850	23.978	24.236	24.333	23.722	23.563	22.992	22.929	23.722	24.075
L14	01:11:47	23.754	23.626	23.882	23.978	24.204	24.365	23.786	23.531	22.992	22.992	23.754	24.075
L14	01:13:40	23.754	23.658	23.850	23.946	24.365	24.301	23.786	23.531	23.024	22.992	23.754	24.043
L15	01:15:19	23.786	23.626	23.850	23.978	24.236	24.301	23.754	23.563	23.024	22.992	23.722	24.075
L15	01:15:49	23.754	23.658	23.882	23.946	24.236	24.365	23.786	23.531	23.024	22.992	23.754	24.043
L15	01:16:48	23.754	23.626	23.850	23.978	24.365	24.333	23.786	23.563	23.024	22.961	23.754	24.043
L15	01:18:46	23.754	23.658	23.850	23.946	24.333	24.333	23.754	23.563	22.992	22.992	23.722	24.075
L16	01:20:32	23.786	23.626	23.850	23.946	24.365	24.333	23.786	23.594	23.055	22.961	23.722	24.075
L16	01:21:53	23.786	23.626	23.882	23.946	24.365	24.333	23.754	23.594	23.024	22.961	23.722	24.043
L16	01:23:59	23.786	23.658	23.850	23.978	24.365	24.365	23.754	23.594	23.024	22.992	23.722	24.075
L17	01:25:51	23.786	23.626	23.850	23.946	24.333	24.365	23.754	23.563	23.024	22.992	23.722	24.043
L17	01:26:17	23.818	23.658	23.882	23.978	24.365	24.333	23.786	23.594	23.055	22.992	23.754	24.075
L17	01:27:17	23.786	23.658	23.850	23.946	24.204	24.365	23.754	23.563	23.055	22.992	23.754	24.043
L17	01:29:17	23.786	23.690	23.882	23.978	24.333	24.301	23.754	23.563	23.055	23.024	23.754	24.043
L18	01:30:47	23.818	23.690	23.882	23.978	24.333	24.365	23.754	23.563	23.024	22.992	23.722	24.043
L18	01:31:39	23.818	23.690	23.882	24.011	24.333	24.365	23.786	23.594	23.024	23.024	23.754	24.075
L18	01:32:51	23.786	23.658	23.882	24.011	24.204	24.365	23.786	23.594	23.024	23.024	23.722	24.075
L18	01:34:17	23.786	23.658	23.882	23.978	24.365	24.268	23.786	23.594	23.024	22.992	23.754	24.075
L19	01:36:24	23.786	23.658	23.914	23.978	24.333	24.333	23.786	23.594	23.055	22.992	23.754	24.075
U1	01:40:05	23.818	23.658	23.914	23.978	24.365	24.365	23.754	23.563	23.087	22.992	23.754	24.043
U2	01:44:17	23.818	23.690	23.914	24.011	24.365	24.268	23.786	23.594	23.087	22.992	23.754	24.075
U3	01:48:12	23.850	23.690	23.914	23.978	24.236	24.365	23.786	23.563	23.055	23.024	23.754	24.043
U4	01:52:31	23.818	23.690	23.882	23.978	24.333	24.333	23.754	23.594	23.055	23.024	23.722	24.075
U5	01:56:31	23.818	23.722	23.882	23.978	24.236	24.333	23.754	23.563	23.055	23.055	23.722	24.043
U5A	01:59:30	23.818	23.690	23.882	24.011	24.333	24.333	23.786	23.563	23.055	23.055	23.754	24.043
U5A	02:14:30	23.850	23.722	23.882	24.043	24.365	24.365	23.754	23.594	23.087	23.087	23.722	24.075

Table F.28 continued

VIBRATING WIRE CALCULATED STRAIN

SBZ 1 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 29	VW STRN MICRO STRAIN 30	VW STRN MICRO STRAIN 5	VW STRN MICRO STRAIN 6	VW STRN MICRO STRAIN 37	VW STRN MICRO STRAIN 38	VW STRN MICRO STRAIN 23	VW STRN MICRO STRAIN 24	VW STRN MICRO STRAIN 25	VW STRN MICRO STRAIN 26	VW STRN MICRO STRAIN 27	VW STRN MICRO STRAIN 28
L0	23:05:04	4.8	3.7	20.6	19.4	27.6	31.5	30.5	29.9	37.6	34.9	58.5	55.5
L0	23:20:04	4.7	3.8	20.9	20.0	28.3	32.0	31.4	30.5	38.7	35.3	58.6	55.8
L0	23:35:04	4.5	4.0	21.0	20.3	28.2	32.4	32.1	30.8	39.2	35.9	58.8	55.9
L0	23:47:31	4.5	4.1	21.3	20.4	28.0	32.4	32.4	31.2	39.7	36.1	58.9	56.0
L0	23:53:11	4.4	4.1	21.2	20.5	27.3	32.7	32.4	31.6	39.9	36.3	58.9	56.1
L1	00:01:04	4.4	4.2	21.2	20.3	27.4	32.8	32.3	32.3	40.3	36.6	59.2	56.8
L1	00:01:36	4.4	4.1	21.2	20.3	27.4	32.8	32.3	32.3	40.3	36.5	59.2	56.8
L1	00:02:36	4.4	4.1	21.3	20.5	27.4	32.8	32.3	32.3	40.3	36.6	59.2	56.8
L1	00:04:35	4.4	4.0	21.2	20.3	27.7	32.7	32.4	32.4	40.4	36.6	59.2	56.7
L2	00:07:08	4.4	3.8	21.3	20.3	27.3	32.7	32.6	32.4	40.6	36.8	59.4	57.2
L2	00:07:40	4.3	4.1	21.3	20.4	27.3	32.7	32.6	32.5	40.6	36.8	59.3	57.2
L2	00:08:38	4.4	3.8	21.3	20.4	27.3	32.7	32.6	32.4	40.6	36.7	59.4	57.2
L2	00:10:39	4.4	3.8	21.3	20.4	27.3	32.7	32.7	32.4	40.7	36.8	59.3	57.2
L3	00:13:00	4.4	4.1	21.3	20.5	27.2	32.9	32.9	32.6	41.1	37.0	59.4	57.4
L3	00:13:30	4.4	3.8	21.3	20.5	27.4	33.0	32.9	32.5	41.0	37.1	59.3	57.3
L3	00:14:29	4.4	4.1	21.3	20.5	27.4	32.9	32.9	32.6	41.0	37.1	59.3	57.3
L3	00:16:29	4.4	4.0	21.3	20.5	27.2	32.9	33.0	32.6	41.0	37.1	59.3	57.4
L4	00:17:56	4.4	4.1	21.3	20.5	27.4	33.0	33.2	32.8	41.4	37.3	59.5	58.8
L4	00:18:34	4.3	3.8	21.4	20.4	27.5	33.0	33.2	32.8	41.4	37.3	59.4	58.8
L4	00:19:26	4.3	3.8	21.4	20.5	27.4	33.0	33.3	32.8	41.5	37.3	59.4	58.7
L4	00:21:26	4.4	4.1	21.4	20.6	27.5	33.0	33.3	32.8	41.5	37.3	59.4	58.7
L5	00:23:14	4.3	4.0	21.4	20.5	27.6	33.3	33.6	32.9	41.8	37.5	59.4	60.0
L5	00:23:48	4.3	4.0	21.5	20.5	27.7	33.2	33.6	33.0	41.8	37.5	59.3	60.0
L5	00:24:43	4.3	4.0	21.5	20.5	27.7	33.2	33.7	32.9	41.8	37.5	59.4	60.0
L5	00:26:43	4.3	3.8	21.5	20.5	27.7	33.4	33.6	32.9	41.9	37.6	59.4	60.0
L6	00:28:24	4.4	4.1	21.5	20.5	27.8	33.3	34.0	33.0	42.3	38.0	59.5	61.2
L6	00:28:56	4.4	3.8	21.5	20.5	27.9	33.5	34.0	33.0	42.2	38.0	59.5	61.2
L6	00:29:53	4.3	4.1	21.6	20.5	27.9	33.4	34.2	33.0	42.2	38.0	59.6	61.2
L6	00:31:54	4.4	4.0	21.5	20.5	27.9	33.3	34.1	33.0	42.4	37.9	59.5	61.1
L7	00:33:39	4.3	4.0	21.7	20.6	28.3	33.5	34.5	33.4	43.1	38.5	60.0	63.1
L7	00:34:13	4.3	3.9	21.7	20.6	28.3	33.5	34.5	33.5	43.0	38.4	59.9	63.1
L7	00:35:13	4.3	4.1	21.7	20.6	28.3	33.5	34.4	33.4	43.0	38.5	60.0	63.1
L7	00:37:10	4.4	3.8	21.8	20.6	28.3	33.6	34.4	33.5	43.0	38.5	60.1	63.1
L8	00:38:45	4.4	4.0	22.2	20.9	29.1	34.4	35.2	34.9	44.6	39.9	61.3	67.7
L8	00:39:15	4.4	3.8	22.2	20.8	29.0	34.6	35.3	34.9	44.7	39.9	61.6	67.9
L8	00:40:15	4.4	3.8	22.3	20.9	29.0	34.5	35.3	34.9	44.7	39.9	61.4	68.1
L8	00:42:15	4.4	3.9	22.3	20.9	29.0	34.5	35.4	34.9	44.9	39.9	61.3	68.2
L9	00:44:24	4.5	4.2	23.0	21.5	29.9	35.6	37.9	36.9	48.8	43.8	67.2	76.4
L9	00:44:57	4.5	4.1	22.9	21.5	29.9	35.5	37.9	37.0	48.9	43.9	67.4	76.7
L9	00:45:49	4.5	4.1	22.9	21.5	30.0	35.5	38.0	37.1	49.1	44.1	67.7	77.3
L9	00:47:59	4.5	4.2	22.9	21.5	30.0	35.5	38.2	37.4	49.5	44.3	68.1	78.2
L10	00:49:38	4.7	4.2	23.7	22.2	32.7	37.1	40.3	40.5	54.5	49.2	75.2	87.4
L10	00:50:07	4.6	4.2	23.6	22.2	32.7	36.9	40.4	40.4	54.7	49.3	75.4	87.7

Table F.28 continued

VIBRATING WIRE CALCULATED STRAIN

SBZ 1 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 29	VW STRN MICRO STRAIN 30	VW STRN MICRO STRAIN 5	VW STRN MICRO STRAIN 6	VW STRN MICRO STRAIN 37	VW STRN MICRO STRAIN 38	VW STRN MICRO STRAIN 23	VW STRN MICRO STRAIN 24	VW STRN MICRO STRAIN 25	VW STRN MICRO STRAIN 26	VW STRN MICRO STRAIN 27	VW STRN MICRO STRAIN 28
L10	00:51:07	4.7	4.2	23.5	22.2	32.8	37.0	40.4	40.7	54.9	49.6	75.7	88.2
L10	00:53:05	4.7	3.9	23.5	22.2	32.7	36.9	40.5	41.0	55.3	49.9	76.4	89.4
L11	00:54:42	4.8	4.0	27.0	22.8	33.0	38.3	44.2	43.8	61.5	55.7	84.8	99.7
L11	00:55:11	4.8	4.3	27.0	22.7	32.7	38.1	44.2	43.7	61.6	55.7	84.9	99.8
L11	00:56:11	4.8	4.2	26.9	22.7	32.7	38.1	44.2	43.8	61.8	55.9	85.2	100.6
L11	00:58:11	4.8	4.0	26.9	22.7	32.8	38.2	44.2	43.9	62.4	56.5	85.8	101.2
L12	01:00:00	4.9	4.3	27.8	23.7	33.9	39.4	48.1	47.4	69.2	63.7	95.3	112.8
L12	01:00:39	4.9	4.2	27.5	23.7	33.9	39.6	48.1	47.5	69.5	63.8	95.7	113.2
L12	01:01:29	4.9	4.3	27.8	23.6	33.6	39.5	48.1	47.4	69.5	63.8	95.7	113.5
L12	01:03:34	4.9	4.3	27.8	23.8	33.9	39.6	48.3	47.6	70.7	64.4	96.1	114.3
L13	01:05:06	5.0	4.3	25.0	24.7	35.3	40.5	51.5	51.4	77.9	72.1	105.6	125.8
L13	01:05:38	5.0	4.5	25.0	24.7	35.3	40.4	51.6	51.5	78.2	71.9	105.8	125.9
L13	01:06:36	5.0	4.5	24.9	24.7	35.3	40.5	51.7	51.6	78.5	72.1	106.0	126.1
L13	01:08:33	5.0	4.5	25.0	24.7	35.4	40.4	51.9	51.7	78.6	72.4	106.5	126.9
L14	01:10:12	5.1	4.7	25.4	25.2	36.1	42.0	55.5	55.4	86.6	79.9	116.7	139.2
L14	01:10:41	5.0	4.6	25.3	25.0	35.7	41.7	55.4	55.4	86.7	80.1	117.2	139.3
L14	01:11:47	5.0	4.6	25.2	25.0	35.6	41.5	55.3	55.4	86.8	80.0	117.0	139.3
L14	01:13:40	5.1	4.6	25.4	25.1	35.3	41.5	55.4	55.5	87.2	80.4	118.3	140.0
L15	01:15:19	5.1	4.9	26.0	25.5	37.8	42.6	59.5	59.2	95.1	88.9	128.3	152.3
L15	01:15:49	5.2	4.8	26.0	25.6	37.7	42.3	59.1	59.2	95.5	89.0	128.6	152.9
L15	01:16:48	5.2	4.7	25.9	25.4	37.4	42.2	59.4	59.0	95.5	89.1	129.0	153.2
L15	01:18:46	5.1	4.7	25.9	25.5	37.3	42.0	59.2	58.9	95.8	89.1	129.4	153.8
L16	01:20:32	5.3	4.9	26.8	26.4	35.8	42.8	63.8	62.8	103.3	98.1	140.1	166.4
L16	01:21:53	5.2	4.8	26.6	26.3	36.5	42.3	63.6	62.7	103.4	98.4	140.1	167.2
L16	01:23:59	5.2	4.7	26.6	26.3	37.7	42.1	63.6	62.6	103.7	99.0	140.5	167.7
L17	01:25:51	5.4	5.1	28.4	27.3	37.1	43.9	68.8	67.1	111.6	108.2	150.8	179.6
L17	01:26:17	5.4	5.1	28.8	27.2	37.0	43.8	68.8	67.2	111.4	108.2	150.5	180.5
L17	01:27:17	5.5	5.1	29.2	27.3	37.3	43.8	69.2	67.4	111.8	108.3	151.3	181.6
L17	01:29:17	5.6	5.1	29.7	27.3	37.4	43.9	69.0	67.6	112.7	108.3	152.0	182.7
L18	01:30:47	5.8	5.3	31.7	27.7	39.3	45.4	72.1	69.9	115.5	110.6	154.9	188.7
L18	01:31:39	5.8	5.3	29.0	28.2	40.0	45.7	73.3	70.2	116.1	109.9	155.6	191.1
L18	01:32:51	6.0	5.4	29.5	28.8	40.8	46.8	74.0	70.7	116.7	109.8	154.8	193.0
L18	01:34:17	6.2	5.3	30.0	29.4	41.5	47.7	74.2	70.8	118.4	109.4	154.6	194.2
L19	01:36:24	6.6	5.2	31.7	30.8	41.0	48.5	74.2	72.0	119.0	108.5	154.1	196.2
U1	01:40:05	6.3	4.7	30.9	29.8	41.2	47.8	73.1	70.0	114.5	103.8	148.8	189.1
U2	01:44:17	3.1	2.9	21.6	20.7	28.0	32.6	50.7	48.4	83.3	71.9	96.7	138.7
U3	01:48:12	2.1	2.3	17.4	16.7	23.2	26.6	43.0	41.0	71.4	60.4	79.5	117.9
U4	01:52:31	-0.5	-0.0	6.4	5.8	6.9	10.3	17.9	16.2	33.5	24.1	31.4	55.7
U5	01:56:31	0.0	-0.1	-0.5	0.0	0.2	0.3	0.0	0.1	-0.9	-0.6	-1.2	-0.3
U5A	01:59:30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U5A	02:14:30	-0.1	-0.1	1.4	-0.9	-0.7	-0.6	-0.3	0.0	1.0	1.4	0.2	-0.0

Table F.28 continued

VIBRATING WIRE CALCULATED STRAIN (4 MINUTE READINGS)

SBZ 1 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 29	VW STRN MICRO STRAIN 30	VW STRN MICRO STRAIN 5	VW STRN MICRO STRAIN 6	VW STRN MICRO STRAIN 37	VW STRN MICRO STRAIN 38	VW STRN MICRO STRAIN 23	VW STRN MICRO STRAIN 24	VW STRN MICRO STRAIN 25	VW STRN MICRO STRAIN 26	VW STRN MICRO STRAIN 27	VW STRN MICRO STRAIN 28
L0	23:53:11	4.4	4.1	21.2	20.5	27.3	32.7	32.4	31.6	39.9	36.3	58.9	56.1
L1	00:04:35	4.4	4.0	21.2	20.3	27.7	32.7	32.4	32.4	40.4	36.6	59.2	56.7
L2	00:10:39	4.4	3.8	21.3	20.4	27.3	32.7	32.7	32.4	40.7	36.8	59.3	57.2
L3	00:16:29	4.4	4.0	21.3	20.5	27.2	32.9	33.0	32.6	41.0	37.1	59.3	57.4
L4	00:21:26	4.4	4.1	21.4	20.6	27.5	33.0	33.3	32.8	41.5	37.3	59.4	58.7
L5	00:26:43	4.3	3.8	21.5	20.5	27.7	33.4	33.6	32.9	41.9	37.6	59.4	60.0
L6	00:31:54	4.4	4.0	21.5	20.5	27.9	33.3	34.1	33.0	42.4	37.9	59.5	61.1
L7	00:37:10	4.4	3.8	21.8	20.6	28.3	33.6	34.4	33.5	43.0	38.5	60.1	63.1
L8	00:42:15	4.4	3.9	22.3	20.9	29.0	34.5	35.4	34.9	44.9	39.9	61.3	68.2
L9	00:47:59	4.5	4.2	22.9	21.5	30.0	35.5	38.2	37.4	49.5	44.3	68.1	78.2
L10	00:53:05	4.7	3.9	23.5	22.2	32.7	36.9	40.5	41.0	55.3	49.9	76.4	89.4
L11	00:58:11	4.8	4.0	26.9	22.7	32.8	38.2	44.2	43.9	62.4	56.5	85.8	101.2
L12	01:03:34	4.9	4.3	27.8	23.8	33.9	39.6	48.3	47.6	70.7	64.4	96.1	114.3
L13	01:08:33	5.0	4.5	25.0	24.7	35.4	40.4	51.9	51.7	78.6	72.4	106.5	126.9
L14	01:13:40	5.1	4.6	25.4	25.1	35.3	41.5	55.4	55.5	87.2	80.4	118.3	140.0
L15	01:18:46	5.1	4.7	25.9	25.5	37.3	42.0	59.2	58.9	95.8	89.1	129.4	153.8
L16	01:23:59	5.2	4.7	26.6	26.3	37.7	42.1	63.6	62.6	103.7	99.0	140.5	167.7
L17	01:29:17	5.6	5.1	29.7	27.3	37.4	43.9	69.0	67.6	112.7	108.3	152.0	182.7
L18	01:34:17	6.2	5.3	30.0	29.4	41.5	47.7	74.2	70.8	118.4	109.4	154.6	194.2
L19	01:36:24	6.6	5.2	31.7	30.8	41.0	48.5	74.2	72.0	119.0	108.5	154.1	196.2
U1	01:40:05	6.3	4.7	30.9	29.8	41.2	47.8	73.1	70.0	114.5	103.8	148.8	189.1
U2	01:44:17	3.1	2.9	21.6	20.7	28.0	32.6	50.7	48.4	83.3	71.9	96.7	138.7
U3	01:48:12	2.1	2.3	17.4	16.7	23.2	26.6	43.0	41.0	71.4	60.4	79.5	117.9
U4	01:52:31	-0.5	-0.0	6.4	5.8	6.9	10.3	17.9	16.2	33.5	24.1	31.4	55.7
U5	01:56:31	0.0	-0.1	-0.5	0.0	0.2	0.3	0.0	0.1	-0.9	-0.6	-1.2	-0.3
U5A	01:59:30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table F.28 continued

AVERAGE STRAIN AT EACH GAGE LEVEL, INTEGRATED PILE COMPRESSION & COMPARISON WITH TELLTALE MEASUREMENT (4 MINUTE READINGS)

SBZ 1 LOAD NUMBER	AVG VW MICRO STRAIN SURFACE	AVG VW MICRO STRAIN 29+30	AVG VW MICRO STRAIN 5+6	AVG VW MICRO STRAIN 37+38	AVG VW MICRO STRAIN 23+24	AVG VW MICRO STRAIN 25+26	AVG VW MICRO STRAIN 27+28	EST'D. MICRO STRAIN CELL TOP	PILE COMPRESSION SG MSMT. INCHES	TT MSMT. INCHES	ABS.DIFF. SG-TT INCHES
L0	0.0	4.3	20.9	30.0	32.0	38.1	57.5	0.0	0.0191	0.0000	0.0191
L1	0.0	4.2	20.7	30.2	32.4	38.5	58.0	12.4	0.0193	0.0000	0.0192
L2	0.0	4.1	20.9	30.0	32.5	38.8	58.2	25.0	0.0194	0.0001	0.0193
L3	0.0	4.2	20.9	30.1	32.8	39.0	58.4	37.6	0.0197	0.0002	0.0195
L4	0.0	4.2	21.0	30.2	33.1	39.4	59.0	50.3	0.0199	0.0003	0.0196
L5	0.0	4.1	21.0	30.5	33.3	39.7	59.7	62.9	0.0201	0.0003	0.0198
L6	0.0	4.2	21.0	30.6	33.5	40.2	60.3	75.5	0.0204	0.0005	0.0199
L7	0.0	4.1	21.2	30.9	34.0	40.7	61.6	88.1	0.0207	0.0006	0.0200
L8	0.0	4.1	21.6	31.8	35.2	42.4	64.8	100.6	0.0214	0.0011	0.0203
L9	0.0	4.4	22.2	32.8	37.8	46.9	73.2	113.3	0.0230	0.0022	0.0208
L10	0.0	4.3	22.8	34.8	40.8	52.6	82.9	126.0	0.0248	0.0038	0.0210
L11	0.0	4.4	24.8	35.5	44.0	59.5	93.5	138.5	0.0269	0.0054	0.0215
L12	0.0	4.6	25.8	36.8	48.0	67.6	105.2	151.2	0.0291	0.0071	0.0220
L13	0.0	4.7	24.8	37.9	51.8	75.5	116.7	163.8	0.0310	0.0090	0.0220
L14	0.0	4.8	25.2	38.4	55.5	83.8	129.1	176.4	0.0330	0.0110	0.0221
L15	0.0	4.9	25.7	39.6	59.0	92.4	141.6	189.0	0.0352	0.0128	0.0224
L16	0.0	5.0	26.5	39.9	63.1	101.4	154.1	201.6	0.0374	0.0146	0.0227
L17	0.0	5.3	28.5	40.7	68.3	110.5	167.3	214.1	0.0401	0.0169	0.0232
L18	0.0	5.8	29.7	44.6	72.5	113.9	174.4	220.4	0.0422	0.0187	0.0235
L19	0.0	5.9	31.3	44.8	73.1	113.7	175.2	219.8	0.0427	0.0195	0.0232
U1	0.0	5.5	30.4	44.5	71.6	109.2	169.0	211.8	0.0414	0.0193	0.0221
U2	0.0	3.0	21.2	30.3	49.5	77.6	117.7	124.5	0.0284	0.0088	0.0197
U3	0.0	2.2	17.0	24.9	42.0	65.9	98.7	103.6	0.0237	0.0047	0.0190
U4	0.0	-0.2	6.1	8.6	17.0	28.8	43.5	43.3	0.0093	-0.0080	0.0173
U5	0.0	-0.1	-0.2	0.3	0.1	-0.8	-0.8	0.0	-0.0001	-0.0165	0.0163
U5A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0000	-0.0165	0.0165
ELEV. FT	6.30	-14.63	-36.13	-46.63	-57.63	-68.63	-73.63	-75.13			

Table F.28 continued

VIBRATING WIRE CALCULATED AVERAGE LOADS (4 MINUTE READINGS)

LA = 5.00 ft ACA = 317.115 si
LB = 1.50 ft ACB = 313.155 si
B = 18.00 in ASA = 3.538 si
ES = 27500.0 ksi ASB = 7.498 si

SBZ 1 LOAD NUMBER	AVG VW LOAD TONS SURFACE	AVG VW LOAD TONS 29+30	AVG VW LOAD TONS 5+6	AVG VW LOAD TONS 37+38	AVG VW LOAD TONS 23+24	AVG VW LOAD TONS 25+26	AVG VW LOAD TONS 27+28	OSTERBERG LOAD TONS BOTTOM	INCR. PILE MODULUS KSI	CALC. PILE A MODULUS KSI	CALC. PILE B MODULUS KSI
L0	0.0	3.19	15.58	22.42	23.89	28.46	45.60	0.0		4611.3	4893.6
L1	0.0	3.15	15.50	22.54	24.19	28.75	45.97	9.8	130925.5	4611.3	4893.6
L2	0.0	3.06	15.61	22.42	24.29	28.95	46.17	19.8	240610.7	4611.3	4893.6
L3	0.0	3.15	15.62	22.46	24.50	29.15	46.26	29.8	535460.9	4611.3	4893.6
L4	0.0	3.15	15.66	22.60	24.69	29.41	46.79	39.9	93803.2	4611.3	4893.6
L5	0.0	3.05	15.69	22.81	24.84	29.68	47.31	49.8	92619.3	4611.3	4893.6
L6	0.0	3.14	15.71	22.87	25.05	30.01	47.82	59.9	96669.6	4611.3	4893.6
L7	0.0	3.06	15.85	23.11	25.37	30.44	48.80	69.8	49732.4	4611.3	4893.6
L8	0.0	3.10	16.13	23.73	26.28	31.66	51.34	79.8	19157.6	4611.3	4893.6
L9	0.0	3.26	16.60	24.47	28.22	35.03	58.01	89.8	7346.9	4611.3	4893.6
L10	0.0	3.21	17.06	26.00	30.46	39.30	65.72	99.9	6392.8	4611.3	4893.6
L11	0.0	3.29	18.54	26.51	32.90	44.43	74.14	109.8	5787.6	4611.3	4893.6
L12	0.0	3.42	19.26	27.48	35.84	50.46	83.41	119.8	5290.9	4611.3	4893.6
L13	0.0	3.52	18.56	28.30	38.69	56.39	92.50	129.8	5388.5	4611.3	4893.6
L14	0.0	3.60	18.83	28.71	41.43	62.61	102.37	139.8	4946.7	4611.3	4893.6
L15	0.0	3.66	19.19	29.62	44.11	69.06	112.25	149.8	4938.2	4611.3	4893.6
L16	0.0	3.71	19.76	29.80	47.13	75.72	122.18	159.8	4947.5	4611.3	4893.6
L17	0.0	3.98	21.28	30.39	51.01	82.55	132.64	169.8	4639.6	4611.3	4893.6
L18	0.0	4.31	22.21	33.31	54.17	85.10	138.27	174.7	4318.4	4611.3	4893.6
L19	0.0	4.41	23.35	33.44	54.62	84.97	138.86	174.2		4611.3	4893.6
U1	0.0	4.11	22.68	33.23	53.45	81.54	133.94	167.9		4611.3	4893.6
U2	0.0	2.23	15.83	22.61	37.01	57.97	93.31	98.7		4611.3	4893.6
U3	0.0	1.68	12.71	18.59	31.38	49.23	78.21	82.2		4611.3	4893.6
U4	0.0	-0.19	4.56	6.45	12.74	21.50	34.51	34.3		4611.3	4893.6
U5	0.0	-0.04	-0.17	0.20	0.04	-0.57	-0.61	0.0		4611.3	4893.6
U5A	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0		4611.3	4893.6
ELEV. FT	6.30	-14.63	-36.13	-46.63	-57.63	-68.63	-73.63	-75.13	4404.6 KSI = CONCRETE MODULUS		

Table F.28 continued

INTEGRATED MOVEMENT AT VW STRAIN GAGE (4 MINUTE READINGS)

SBZ 1 LOAD NUMBER	VW MOVEMENT INCHES SURFACE	VW MOVEMENT INCHES 29+30	VW MOVEMENT INCHES 5+6	VW MOVEMENT INCHES 37+38	VW MOVEMENT INCHES 23+24	VW MOVEMENT INCHES 25+26	VW MOVEMENT INCHES 27+28	VW MOVEMENT INCHES CELL TOP
L0	-0.0191	-0.0185	-0.0153	-0.0121	-0.0080	-0.0034	-0.0005	0.0000
L1	-0.0192	-0.0187	-0.0155	-0.0123	-0.0082	-0.0035	-0.0006	0.0000
L2	-0.0193	-0.0188	-0.0156	-0.0124	-0.0083	-0.0036	-0.0006	0.0001
L3	-0.0195	-0.0189	-0.0157	-0.0125	-0.0083	-0.0036	-0.0007	0.0002
L4	-0.0196	-0.0191	-0.0159	-0.0126	-0.0085	-0.0037	-0.0007	0.0003
L5	-0.0198	-0.0192	-0.0160	-0.0128	-0.0086	-0.0037	-0.0008	0.0003
L6	-0.0199	-0.0193	-0.0161	-0.0128	-0.0086	-0.0037	-0.0007	0.0005
L7	-0.0200	-0.0195	-0.0163	-0.0130	-0.0087	-0.0038	-0.0007	0.0006
L8	-0.0203	-0.0198	-0.0165	-0.0131	-0.0087	-0.0036	-0.0004	0.0011
L9	-0.0208	-0.0202	-0.0168	-0.0133	-0.0087	-0.0031	0.0005	0.0022
L10	-0.0210	-0.0204	-0.0169	-0.0133	-0.0083	-0.0021	0.0019	0.0038
L11	-0.0165	-0.0159	-0.0122	-0.0084	-0.0031	0.0037	0.0083	0.0104
L12	-0.0120	-0.0115	-0.0076	-0.0036	0.0020	0.0096	0.0148	0.0171
L13	-0.0020	-0.0014	0.0024	0.0064	0.0123	0.0207	0.0265	0.0290
L14	0.0079	0.0085	0.0124	0.0164	0.0226	0.0318	0.0382	0.0410
L15	0.0226	0.0232	0.0272	0.0313	0.0378	0.0478	0.0548	0.0578
L16	0.0473	0.0479	0.0520	0.0561	0.0629	0.0738	0.0814	0.0847
L17	0.1218	0.1224	0.1268	0.1311	0.1383	0.1501	0.1585	0.1619
L18	0.3265	0.3272	0.3318	0.3365	0.3442	0.3565	0.3651	0.3687
L19	0.5468	0.5476	0.5524	0.5572	0.5649	0.5773	0.5859	0.5895
U1	0.5929	0.5936	0.5982	0.6029	0.6106	0.6225	0.6309	0.6343
U2	0.5903	0.5907	0.5938	0.5971	0.6023	0.6107	0.6166	0.6188
U3	0.5910	0.5913	0.5938	0.5964	0.6008	0.6079	0.6129	0.6147
U4	0.5827	0.5826	0.5834	0.5843	0.5860	0.5890	0.5912	0.5920
U5	0.5737	0.5737	0.5736	0.5736	0.5736	0.5736	0.5736	0.5736
U5A	0.5735	0.5735	0.5735	0.5735	0.5735	0.5735	0.5735	0.5735

Table F.28 continued

INTEGRATED MOVEMENT AT SEGMENT CL (4 MINUTE READINGS)

SBZ 1 LOAD NUMBER CL.ELEV.	AVG VW MOVEMENT INCHES -4.17	AVG VW MOVEMENT INCHES -25.38	AVG VW MOVEMENT INCHES -41.38	AVG VW MOVEMENT INCHES -52.13	AVG VW MOVEMENT INCHES -63.13	AVG VW MOVEMENT INCHES -71.13
L0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L9	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L10	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L11	0.0000	0.0000	0.0000	0.0000	0.0003	0.0060
L12	0.0000	0.0000	0.0000	0.0000	0.0058	0.0122
L13	0.0000	0.0005	0.0044	0.0094	0.0165	0.0236
L14	0.0082	0.0105	0.0144	0.0195	0.0272	0.0350
L15	0.0229	0.0252	0.0292	0.0345	0.0428	0.0513
L16	0.0476	0.0499	0.0540	0.0595	0.0684	0.0776
L17	0.1221	0.1246	0.1290	0.1347	0.1442	0.1543
L18	0.3268	0.3295	0.3341	0.3403	0.3503	0.3608
L19	0.5472	0.5500	0.5548	0.5611	0.5711	0.5816
U1	0.5933	0.5959	0.6006	0.6068	0.6166	0.6267
U2	0.5905	0.5923	0.5954	0.5997	0.6065	0.6136
U3	0.5911	0.5925	0.5951	0.5986	0.6044	0.6104
U4	0.5827	0.5830	0.5839	0.5852	0.5875	0.5901
U5	0.5737	0.5736	0.5736	0.5736	0.5736	0.5736
U5A	0.5735	0.5735	0.5735	0.5735	0.5735	0.5735

Table F.28 continued

AVERAGE SEGMENT SHEAR STRESS (4 MINUTE READINGS)

SBZ 1 LOAD NUMBER CL.ELEV.	AVG VW SHEAR TSF -4.17	AVG VW SHEAR TSF -25.38	AVG VW SHEAR TSF -41.38	AVG VW SHEAR TSF -52.13	AVG VW SHEAR TSF -63.13	AVG VW SHEAR TSF -71.13
L0	0.009	0.080	0.092	0.006	0.053	0.555
L1	0.009	0.079	0.095	0.009	0.053	0.558
L2	0.008	0.081	0.092	0.012	0.054	0.558
L3	0.009	0.080	0.092	0.014	0.054	0.554
L4	0.009	0.081	0.094	0.015	0.055	0.563
L5	0.008	0.082	0.097	0.014	0.057	0.572
L6	0.009	0.081	0.097	0.017	0.059	0.577
L7	0.008	0.083	0.099	0.018	0.060	0.596
L8	0.008	0.085	0.104	0.022	0.065	0.640
L9	0.009	0.087	0.109	0.040	0.087	0.750
L10	0.009	0.091	0.126	0.051	0.118	0.864
L11	0.010	0.102	0.110	0.081	0.158	0.974
L12	0.011	0.106	0.114	0.110	0.205	1.082
L13	0.012	0.100	0.138	0.141	0.252	1.187
L14	0.012	0.102	0.140	0.176	0.305	1.309
L15	0.013	0.104	0.149	0.203	0.362	1.423
L16	0.013	0.108	0.143	0.246	0.417	1.532
L17	0.015	0.118	0.128	0.296	0.462	1.653
L18	0.018	0.122	0.160	0.300	0.452	1.756
L19	0.019	0.130	0.144	0.304	0.444	1.780
U1	0.016	0.128	0.151	0.290	0.409	1.730
U2	0.001	0.089	0.091	0.202	0.301	1.162
U3	-0.003	0.069	0.077	0.177	0.254	0.950
U4	-0.018	0.020	0.014	0.079	0.116	0.417
U5	-0.017	-0.017	-0.011	-0.019	-0.026	-0.018
U5A	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016

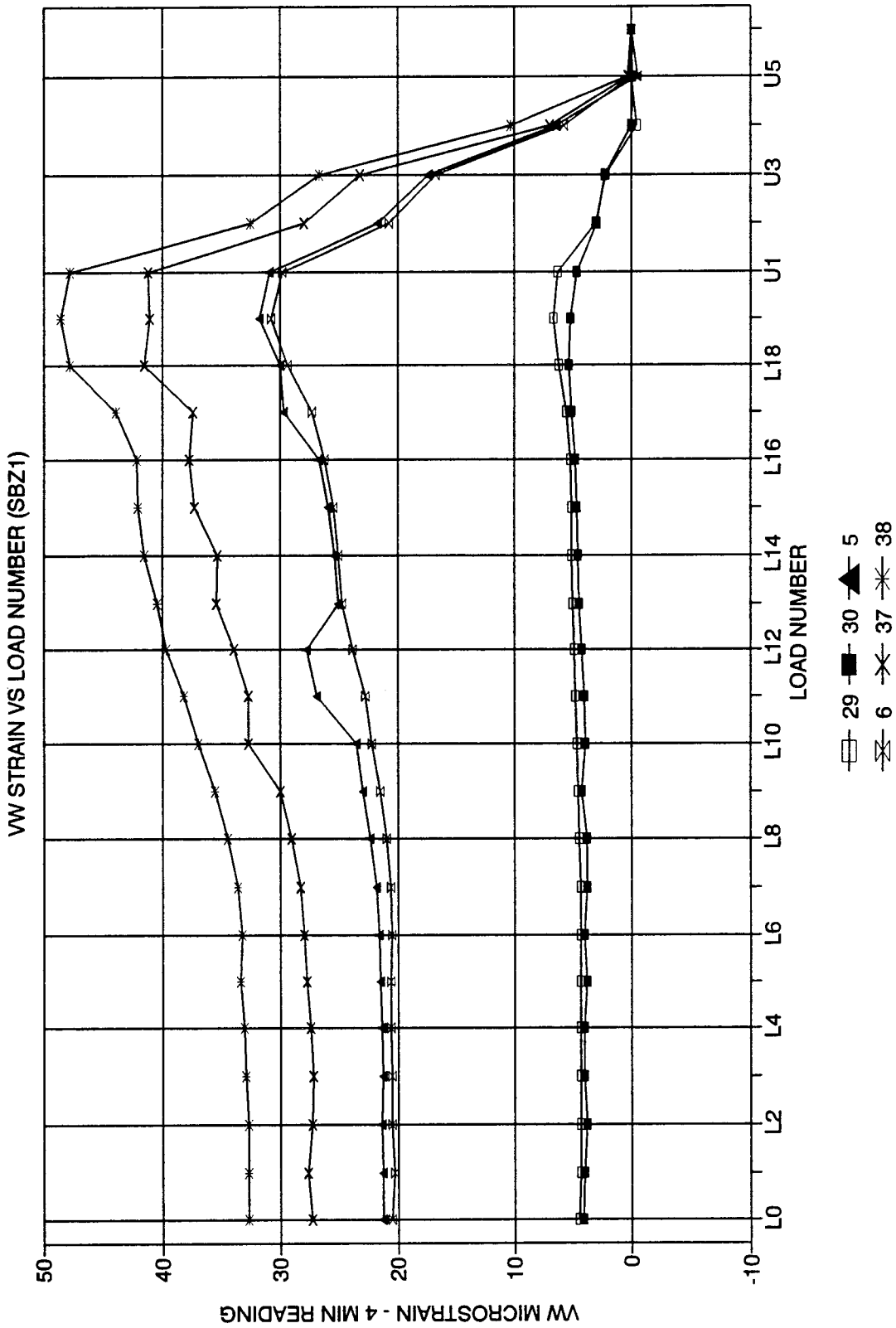

Figure F.148 Strain at Pile Top: Seabreeze Load Test 1

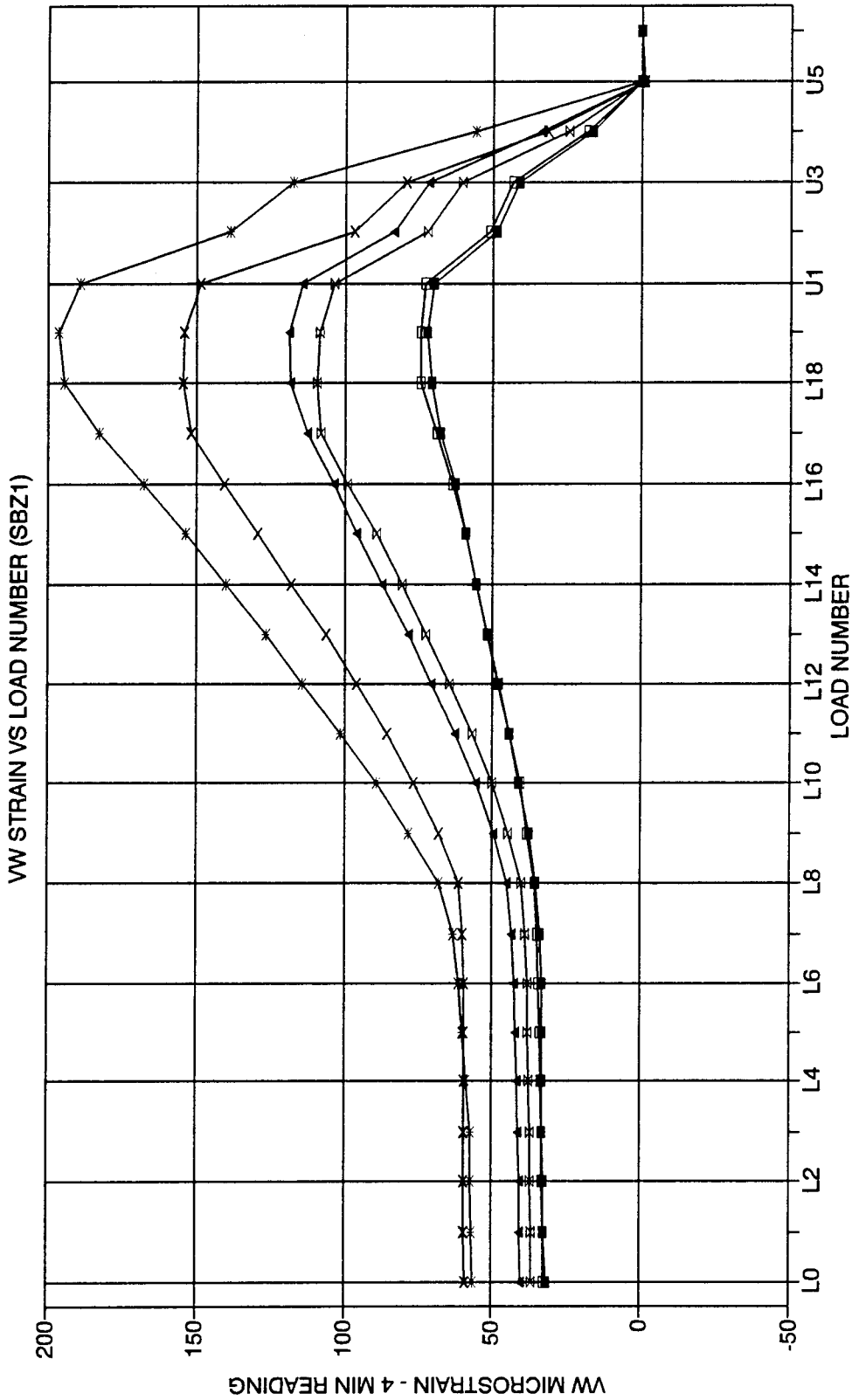

Figure F.149 Strain at Pile Bottom: Seabreeze Load Test 1

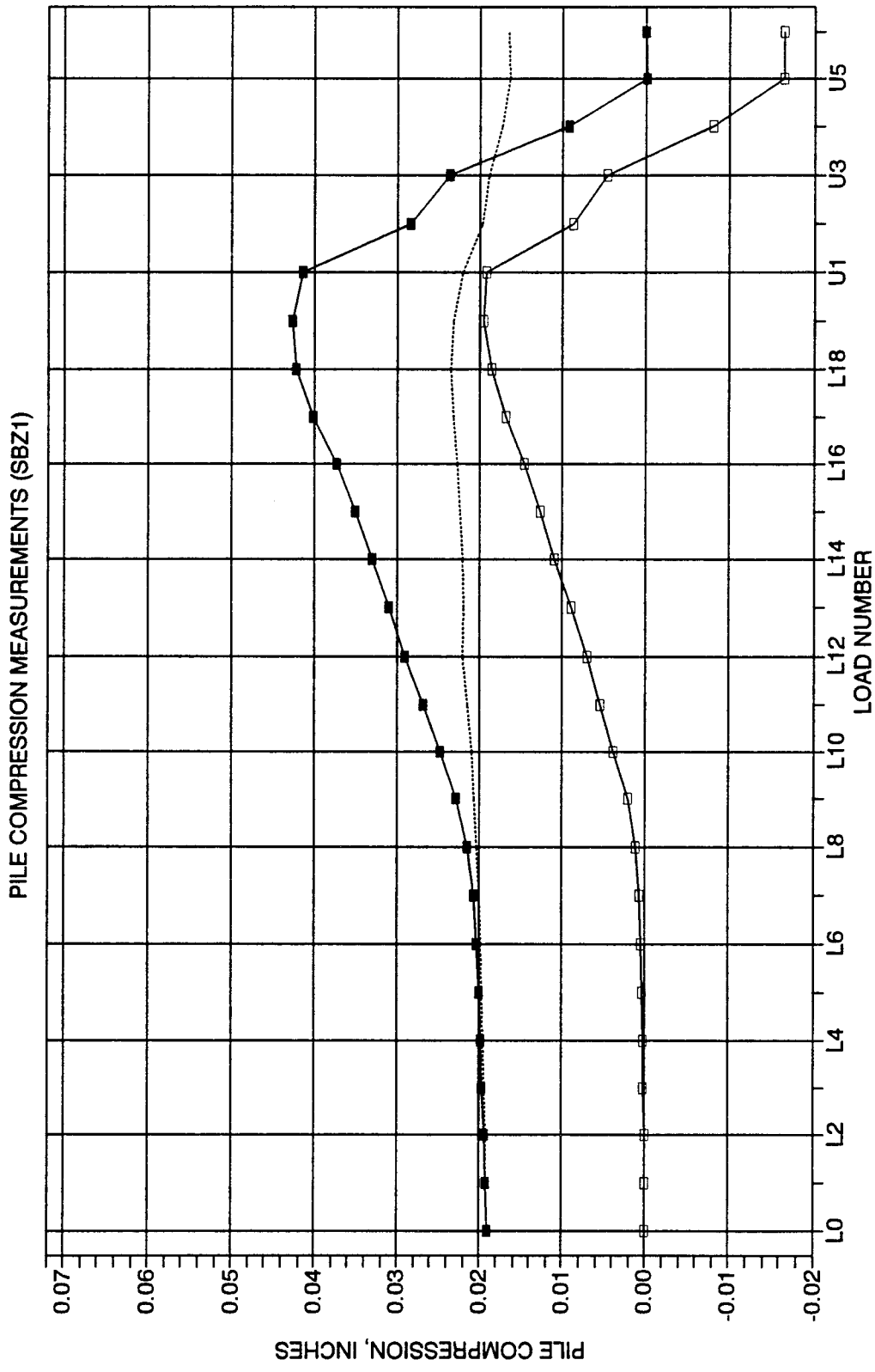

Figure F.150 Pile Compression Measurements: Seabreeze Load Test 1

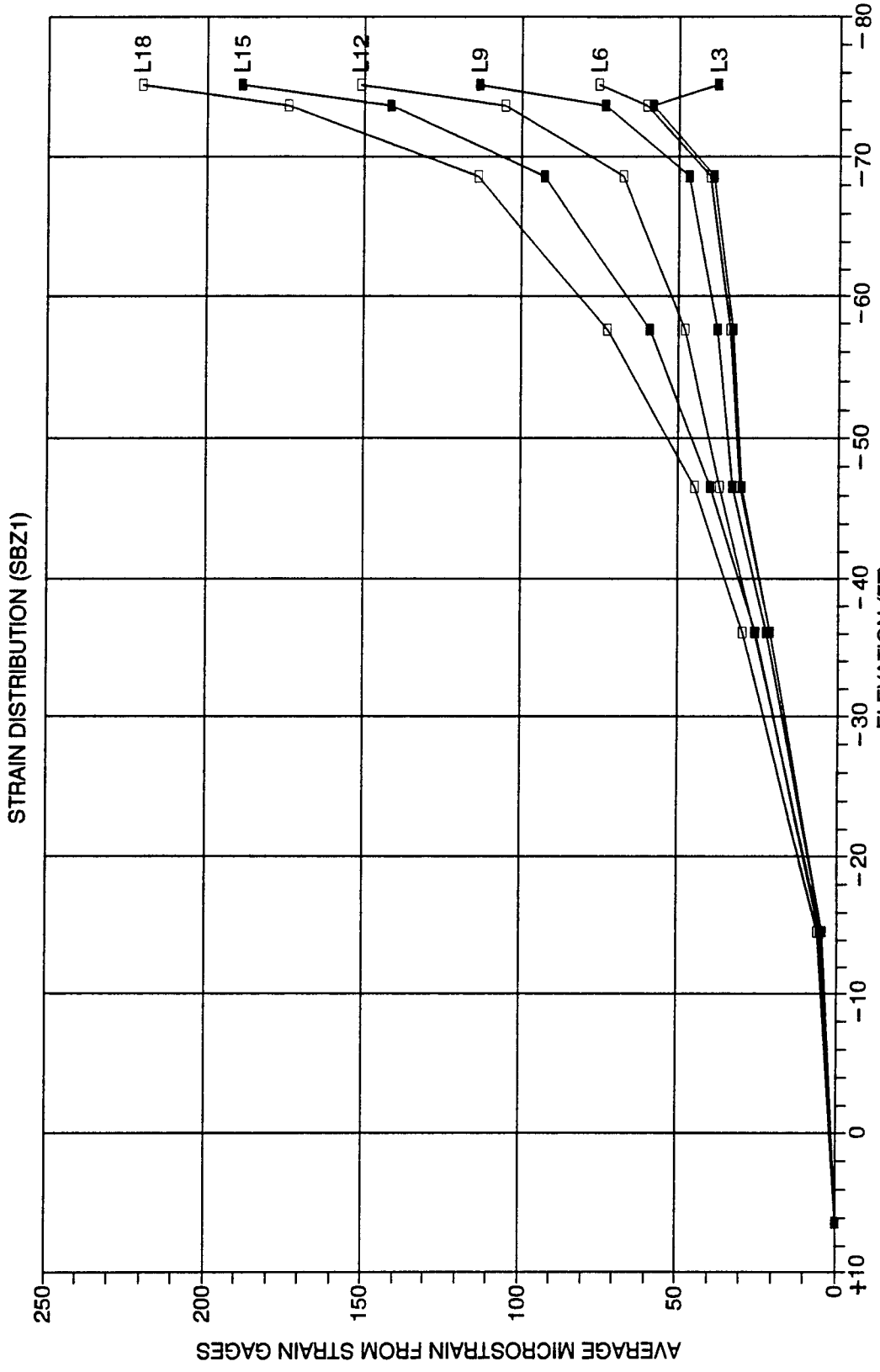

Figure F.151 Pile Strain Distribution: Seabreeze Load Test 1

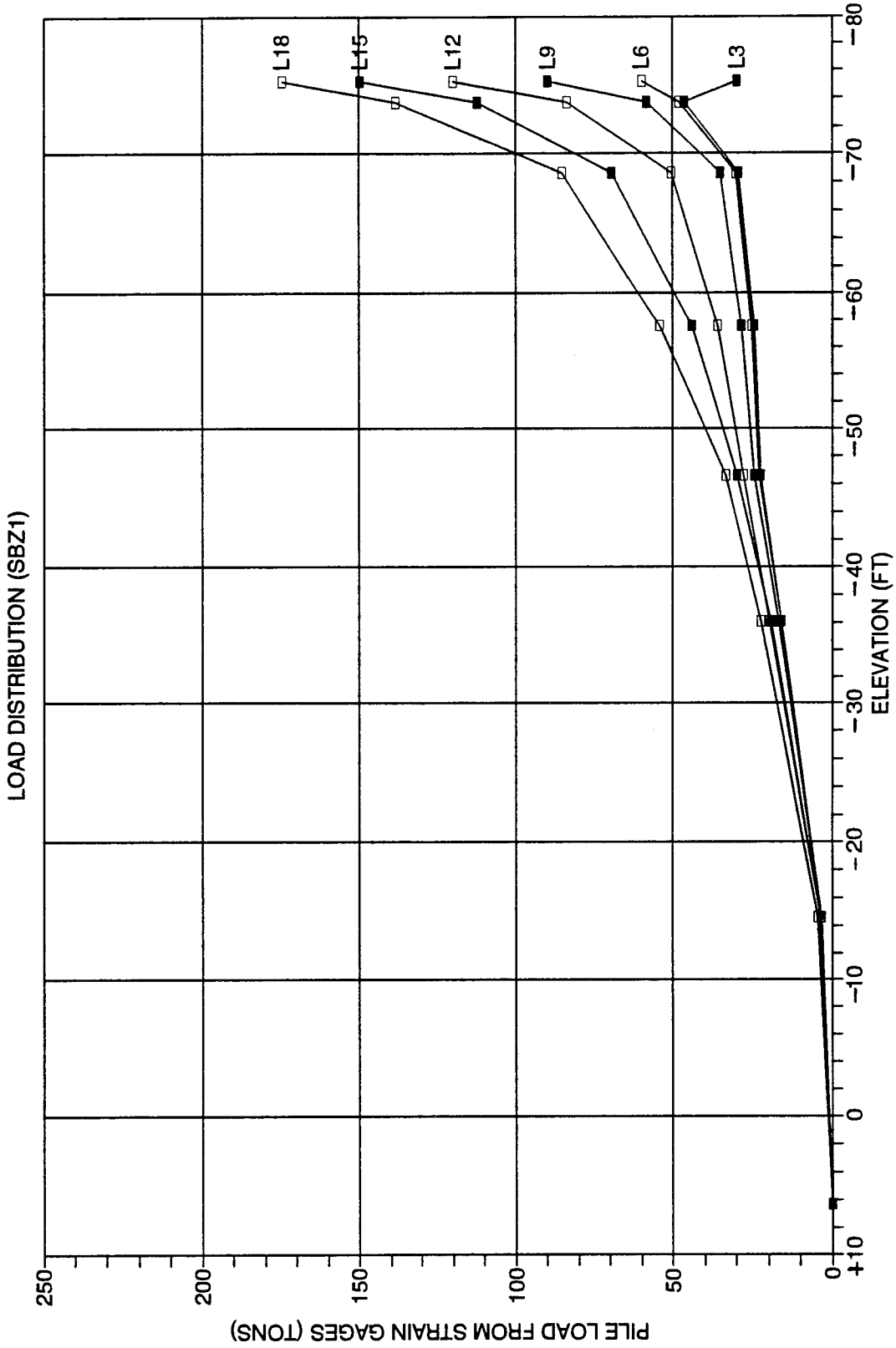

Figure F.152 Pile Load Distribution: Seabreeze Load Test 1

Table F.29 Strain Analyses: Seabreeze Load Test 2

VIBRATING WIRE INSTRUMENT READINGS - STRAIN

SBZ 2 LOAD NUMBER	TIME	VW STRN FREQ^2 KHZ^2 29	VW STRN FREQ^2 KHZ^2 30	VW STRN FREQ^2 KHZ^2 5	VW STRN FREQ^2 KHZ^2 6	VW STRN FREQ^2 KHZ^2 37	VW STRN FREQ^2 KHZ^2 38	VW STRN FREQ^2 KHZ^2 23	VW STRN FREQ^2 KHZ^2 24	VW STRN FREQ^2 KHZ^2 25	VW STRN FREQ KHZ^2 26	VW STRN FREQ KHZ^2 27	VW STRN FREQ KHZ^2 28
L0	15:10:00	0.66153	0.78442	0.66265	0.62044	0.70631	0.66117	0.72514	0.64528	0.68970	0.74604	0.87366	0.80351
L0	15:25:00	0.66156	0.78442	0.66270	0.62049	0.70633	0.66120	0.72514	0.64527	0.68971	0.74604	0.87366	0.80352
L0	15:40:00	0.66162	0.78437	0.66272	0.62057	0.70639	0.66125	0.72514	0.64527	0.68971	0.74605	0.87368	0.80352
L0	15:55:00	0.66169	0.78435	0.66164	0.62064	0.70647	0.66128	0.72515	0.64528	0.68971	0.74606	0.87369	0.80352
L0	16:10:00	0.66166	0.78438	0.66166	0.62065	0.70647	0.66129	0.72514	0.64529	0.68971	0.74605	0.87368	0.80353
L0	16:19:18	0.66173	0.78433	0.66204	0.62069	0.70651	0.66128	0.72517	0.64529	0.68972	0.74605	0.87369	0.80352
L1	16:21:52	0.66154	0.78442	0.66259	0.62030	0.70625	0.66075	0.72432	0.64444	0.68814	0.74472	0.87080	0.80108
L1	16:22:22	0.66154	0.78443	0.66254	0.62027	0.70624	0.66072	0.72430	0.64443	0.68812	0.74469	0.87075	0.80108
L1	16:23:21	0.66157	0.78442	0.66256	0.62027	0.70625	0.66071	0.72432	0.64442	0.68812	0.74467	0.87072	0.80104
L1	16:25:21	0.66154	0.78441	0.66255	0.62027	0.70624	0.66070	0.72430	0.64440	0.68811	0.74464	0.87067	0.80100
L1	16:26:13	0.66156	0.78442	0.66256	0.62026	0.70624	0.66069	0.72429	0.64439	0.68812	0.74463	0.87067	0.80101
L2	16:28:49	0.66174	0.78449	0.66129	0.61937	0.70517	0.65979	0.72269	0.64262	0.68515	0.74176	0.86578	0.79470
L2	16:29:20	0.66176	0.78446	0.66118	0.61934	0.70508	0.65973	0.72261	0.64256	0.68503	0.74165	0.86577	0.79449
L2	16:30:20	0.66174	0.78445	0.66104	0.61931	0.70497	0.65968	0.72251	0.64250	0.68487	0.74153	0.86571	0.79433
L2	16:32:20	0.66174	0.78446	0.66088	0.61929	0.70488	0.65963	0.72240	0.64244	0.68485	0.74148	0.86570	0.79415
L3	16:34:39	0.66109	0.78388	0.66083	0.61871	0.70373	0.65844	0.72001	0.64046	0.68110	0.73812	0.86040	0.78755
L3	16:35:11	0.66112	0.78384	0.66074	0.61862	0.70421	0.65832	0.71996	0.64032	0.68085	0.73797	0.86013	0.78726
L3	16:36:10	0.66114	0.78381	0.66063	0.61846	0.70419	0.65820	0.71987	0.64018	0.68061	0.73782	0.85987	0.78705
L3	16:38:09	0.66117	0.78378	0.66043	0.61830	0.70409	0.65809	0.71981	0.64006	0.68046	0.73771	0.85969	0.78664
L4	16:40:18	0.66115	0.78370	0.65986	0.61740	0.70247	0.65693	0.71764	0.63786	0.67640	0.73392	0.85445	0.78004
L4	16:40:48	0.66112	0.78361	0.65974	0.61733	0.70225	0.65684	0.71749	0.63777	0.67620	0.73385	0.85406	0.77964
L4	16:41:47	0.66108	0.78360	0.65951	0.61724	0.70228	0.65673	0.71703	0.63759	0.67605	0.73363	0.85376	0.77938
L4	16:43:48	0.66107	0.78361	0.65925	0.61713	0.70248	0.65660	0.71709	0.63745	0.67577	0.73344	0.85344	0.77895
L5	16:45:47	0.66090	0.78357	0.65838	0.61617	0.70084	0.65511	0.71489	0.63516	0.67135	0.72951	0.84776	0.77215
L5	16:46:18	0.66089	0.78356	0.65825	0.61608	0.70076	0.65508	0.71467	0.63500	0.67080	0.72935	0.84744	0.77186
L5	16:47:17	0.66090	0.78354	0.65816	0.61600	0.70064	0.65486	0.71441	0.63492	0.67090	0.72916	0.84716	0.77146
L5	16:49:17	0.66089	0.78354	0.65803	0.61589	0.70046	0.65471	0.71426	0.63483	0.67063	0.72898	0.84688	0.77108
L6	16:51:26	0.66068	0.78349	0.65702	0.61468	0.69937	0.65344	0.71212	0.63241	0.66616	0.72460	0.84120	0.76438
L6	16:51:57	0.66065	0.78349	0.65686	0.61461	0.69911	0.65335	0.71200	0.63229	0.66580	0.72451	0.84111	0.76409
L6	16:52:57	0.66057	0.78353	0.65659	0.61457	0.69887	0.65316	0.71191	0.63220	0.66556	0.72445	0.84068	0.76382
L6	16:55:18	0.66050	0.78348	0.65600	0.61450	0.69863	0.65289	0.71186	0.63215	0.66542	0.72442	0.84040	0.76348
L7	16:57:12	0.66020	0.78345	0.65618	0.61392	0.69809	0.65218	0.71071	0.63095	0.66329	0.72231	0.83748	0.76023
L7	16:57:44	0.66042	0.78347	0.65615	0.61387	0.69807	0.65220	0.71067	0.63088	0.66323	0.72220	0.83728	0.76000
L7	16:58:43	0.66046	0.78347	0.65604	0.61380	0.69821	0.65219	0.71060	0.63083	0.66311	0.72208	0.83710	0.75981
L7	17:00:41	0.66046	0.78343	0.65585	0.61366	0.69833	0.65208	0.71059	0.63081	0.66299	0.72202	0.83689	0.75965
L8	17:02:19	0.66039	0.78344	0.65517	0.61310	0.69717	0.65131	0.70938	0.62970	0.66086	0.71985	0.83418	0.75657
L8	17:02:50	0.66037	0.78344	0.65479	0.61305	0.69702	0.65125	0.70928	0.62959	0.66064	0.71990	0.83395	0.75634
L8	17:03:50	0.66036	0.78343	0.65452	0.61296	0.69683	0.65113	0.70924	0.62953	0.66050	0.71979	0.83382	0.75618
L8	17:05:49	0.66035	0.78342	0.65506	0.61280	0.69669	0.65092	0.70921	0.62952	0.66041	0.71976	0.83372	0.75600
L9	17:07:32	0.66023	0.78339	0.65468	0.61246	0.69628	0.65028	0.70802	0.62827	0.65810	0.71732	0.83076	0.75269
L9	17:07:58	0.66025	0.78337	0.65459	0.61246	0.69623	0.65019	0.70797	0.62824	0.65801	0.71703	0.83077	0.75264
L9	17:08:58	0.66021	0.78337	0.65438	0.61226	0.69610	0.65008	0.70788	0.62820	0.65800	0.71710	0.83059	0.75251
L9	17:10:58	0.66018	0.78337	0.65412	0.61199	0.69596	0.64996	0.70786	0.62818	0.65795	0.71732	0.83041	0.75236

Table F.29 continued

VIBRATING WIRE INSTRUMENT READINGS - STRAIN

SBZ 2 LOAD NUMBER	TIME	VW STRN FREQ^2 KHZ^2 29	VW STRN FREQ^2 KHZ^2 30	VW STRN FREQ^2 KHZ^2 5	VW STRN FREQ^2 KHZ^2 6	VW STRN FREQ^2 KHZ^2 37	VW STRN FREQ^2 KHZ^2 38	VW STRN FREQ^2 KHZ^2 23	VW STRN FREQ^2 KHZ^2 24	VW STRN FREQ^2 KHZ^2 25	VW STRN FREQ KHZ^2 26	VW STRN FREQ KHZ^2 27	VW STRN FREQ KHZ^2 28
L10	17:12:46	0.65988	0.78340	0.65371	0.61159	0.69566	0.64918	0.70655	0.62694	0.65554	0.71505	0.82731	0.74907
L10	17:13:16	0.65985	0.78340	0.65368	0.61150	0.69551	0.64913	0.70648	0.62690	0.65545	0.71502	0.82720	0.74902
L10	17:14:16	0.65984	0.78332	0.65357	0.61135	0.69532	0.64908	0.70648	0.62686	0.65539	0.71489	0.82693	0.74878
L10	17:16:26	0.65981	0.78334	0.65338	0.61118	0.69498	0.64885	0.70643	0.62685	0.65534	0.71487	0.82686	0.74854
L11	17:18:07	0.65976	0.78340	0.65290	0.61049	0.69421	0.64821	0.70519	0.62558	0.65309	0.71272	0.82413	0.74554
L11	17:18:36	0.65975	0.78338	0.65285	0.61044	0.69417	0.64812	0.70519	0.62550	0.65286	0.71253	0.82391	0.74523
L11	17:19:36	0.65974	0.78340	0.65256	0.61035	0.69392	0.64796	0.70512	0.62546	0.65283	0.71240	0.82383	0.74507
L11	17:21:35	0.65974	0.78336	0.65235	0.61049	0.69369	0.64785	0.70511	0.62546	0.65269	0.71233	0.82326	0.74495
L12	17:23:29	0.65968	0.78346	0.65210	0.61008	0.69360	0.64716	0.70384	0.62422	0.65032	0.71004	0.82048	0.74166
L12	17:23:59	0.65962	0.78346	0.65203	0.61005	0.69350	0.64712	0.70376	0.62415	0.65018	0.71008	0.82044	0.74160
L12	17:24:59	0.65962	0.78346	0.65194	0.60999	0.69337	0.64709	0.70381	0.62421	0.65014	0.71007	0.82017	0.74144
L12	17:27:05	0.65960	0.78347	0.65176	0.60993	0.69315	0.64707	0.70388	0.62423	0.65009	0.70992	0.81983	0.74119
L13	17:28:33	0.65960	0.78349	0.65104	0.60915	0.69252	0.64660	0.70283	0.62317	0.64779	0.70767	0.81691	0.73816
L13	17:29:04	0.65955	0.78348	0.65109	0.60906	0.69253	0.64662	0.70289	0.62323	0.64776	0.70772	0.81687	0.73809
L13	17:30:02	0.65956	0.78347	0.65108	0.60906	0.69261	0.64666	0.70302	0.62337	0.64772	0.70764	0.81669	0.73786
L13	17:32:01	0.65956	0.78347	0.65114	0.60898	0.69258	0.64674	0.70317	0.62353	0.64771	0.70766	0.81655	0.73772
L14	17:34:06	0.65953	0.78341	0.65110	0.60863	0.69222	0.64645	0.70212	0.62249	0.64499	0.70501	0.81301	0.73394
L14	17:34:36	0.65955	0.78340	0.65111	0.60866	0.69232	0.64652	0.70225	0.62262	0.64495	0.70498	0.81255	0.73381
L14	17:35:36	0.65955	0.78343	0.65113	0.60872	0.69242	0.64662	0.70248	0.62278	0.64493	0.70497	0.81237	0.73357
L14	17:37:36	0.65957	0.78343	0.65116	0.60879	0.69247	0.64678	0.70253	0.62305	0.64491	0.70491	0.81203	0.73332
L15	17:39:16	0.65954	0.78341	0.65108	0.60867	0.69243	0.64672	0.70207	0.62254	0.64327	0.70332	0.80973	0.73081
L15	17:39:49	0.65956	0.78342	0.65109	0.60869	0.69242	0.64679	0.70217	0.62264	0.64322	0.70319	0.80947	0.73058
L15	17:40:49	0.65955	0.78345	0.65114	0.60877	0.69254	0.64697	0.70248	0.62284	0.64319	0.70315	0.80943	0.73035
L15	17:42:46	0.65955	0.78346	0.65121	0.60883	0.69265	0.64706	0.70235	0.62308	0.64315	0.70302	0.80880	0.73003
L16	17:44:49	0.65954	0.78348	0.65113	0.60876	0.69260	0.64708	0.70197	0.62266	0.64140	0.70080	0.80618	0.72677
L16	17:45:19	0.65956	0.78346	0.65115	0.60876	0.69265	0.64710	0.70204	0.62272	0.64134	0.70076	0.80612	0.72662
L16	17:46:19	0.65957	0.78348	0.65119	0.60878	0.69269	0.64715	0.70215	0.62284	0.64122	0.70079	0.80545	0.72610
L16	17:48:18	0.65956	0.78349	0.65116	0.60880	0.69270	0.64721	0.70233	0.62316	0.64148	0.70081	0.80516	0.72565
L17	17:50:03	0.65954	0.78348	0.65111	0.60874	0.69259	0.64714	0.70208	0.62306	0.64109	0.70045	0.80399	0.72428
L17	17:50:33	0.65955	0.78348	0.65112	0.60870	0.69258	0.64719	0.70216	0.62321	0.64127	0.70060	0.80321	0.72411
L17	17:51:33	0.65959	0.78352	0.65108	0.60864	0.69254	0.64713	0.70212	0.62325	0.64136	0.70072	0.80287	0.72407
L17	17:53:32	0.65956	0.78351	0.65107	0.60860	0.69246	0.64710	0.70234	0.62345	0.64185	0.70135	0.80218	0.72360
L17A	17:56:03	0.65956	0.78347	0.65089	0.60843	0.69235	0.64703	0.70234	0.62356	0.64213	0.70225	0.80290	0.72434
U1	18:00:22	0.65963	0.78342	0.65103	0.60861	0.69247	0.64714	0.70338	0.62460	0.64459	0.70465	0.80709	0.72895
U2	18:04:29	0.66021	0.78360	0.65339	0.61124	0.69621	0.65090	0.70945	0.63064	0.65368	0.71378	0.82205	0.74136
U3	18:08:28	0.66121	0.78448	0.65623	0.61417	0.69954	0.65478	0.71557	0.63700	0.66297	0.72309	0.83418	0.75509
U4	18:12:07	0.66184	0.78433	0.65865	0.61651	0.70234	0.65808	0.72089	0.64211	0.67085	0.73079	0.84398	0.76634
U5	18:16:07	0.66234	0.78538	0.66139	0.61929	0.70603	0.66172	0.72739	0.64816	0.68174	0.74047	0.85568	0.78080
U6	18:20:00	0.66251	0.78547	0.66371	0.62116	0.70854	0.66506	0.73545	0.65595	0.69877	0.75381	0.87224	0.80406
U6A	18:22:59	0.66253	0.78547	0.66381	0.62120	0.70836	0.66524	0.73554	0.65603	0.69885	0.75380	0.87233	0.80434
U6A	18:37:59	0.66259	0.78545	0.66403	0.62145	0.70877	0.66559	0.73577	0.65615	0.69898	0.75377	0.87259	0.80464
U6A	18:52:59	0.66261	0.78544	0.66321	0.62168	0.70885	0.66561	0.73584	0.65613	0.69900	0.75371	0.87270	0.80475
U6A	18:56:01	0.66261	0.78544	0.66333	0.62176	0.70888	0.66566	0.73585	0.65612	0.69901	0.75369	0.87271	0.80477

Table F.29 continued

VIBRATING WIRE INSTRUMENT READINGS - TEMPERATURE

SBZ 2 LOAD NUMBER	TIME	VW STRN TEMP DEG C 29	VW STRN TEMP DEG C 30	VW STRN TEMP DEG C 5	VW STRN TEMP DEG C 6	VW STRN TEMP DEG C 37	VW STRN TEMP DEG C 38	VW STRN TEMP DEG C 23	VW STRN TEMP DEG C 24	VW STRN TEMP DEG C 25	VW STRN TEMP DEG C 26	VW STRN TEMP DEG C 27	VW STRN TEMP DEG C 28
L0	15:10:00	24.743	24.710	24.321	24.450	24.385	24.450	24.321	24.031	23.966	23.966	23.583	23.870
L0	15:25:00	24.743	24.677	24.321	24.482	24.385	24.418	24.321	24.063	23.966	23.934	23.583	23.902
L0	15:40:00	24.743	24.710	24.321	24.450	24.385	24.450	24.321	24.031	23.966	23.966	23.583	23.838
L0	15:55:00	24.749	24.684	24.327	24.489	24.360	24.424	24.327	24.069	23.973	23.941	23.589	23.909
L0	16:10:00	24.755	24.722	24.333	24.430	24.365	24.462	24.333	24.042	23.978	23.978	23.594	23.850
L0	16:19:18	24.725	24.725	24.335	24.465	24.335	24.465	24.335	24.045	23.917	23.949	23.597	23.885
L1	16:21:52	24.757	24.725	24.335	24.465	24.368	24.465	24.335	24.012	23.948	23.948	23.596	23.852
L1	16:22:22	24.724	24.724	24.335	24.464	24.335	24.464	24.335	24.044	23.916	23.948	23.596	23.884
L1	16:23:21	24.757	24.724	24.335	24.432	24.367	24.464	24.238	24.012	23.980	23.948	23.596	23.852
L1	16:25:21	24.756	24.724	24.334	24.431	24.366	24.464	24.237	24.012	23.948	23.948	23.596	23.851
L1	16:26:13	24.756	24.691	24.334	24.464	24.366	24.431	24.334	24.044	23.980	23.915	23.596	23.883
L2	16:28:49	24.756	24.723	24.301	24.431	24.366	24.463	24.334	24.011	23.947	23.947	23.595	23.851
L2	16:29:20	24.756	24.723	24.334	24.463	24.366	24.463	24.237	24.043	23.947	23.947	23.595	23.851
L2	16:30:20	24.756	24.723	24.334	24.496	24.366	24.431	24.334	24.043	23.947	23.915	23.595	23.883
L2	16:32:20	24.723	24.690	24.333	24.463	24.366	24.430	24.333	24.043	23.979	23.915	23.595	23.883
L3	16:34:39	24.755	24.723	24.333	24.462	24.333	24.462	24.333	24.043	23.914	23.946	23.595	23.882
L3	16:35:11	24.755	24.690	24.333	24.462	24.333	24.462	24.236	24.043	23.946	23.946	23.595	23.882
L3	16:36:10	24.755	24.723	24.301	24.462	24.365	24.462	24.204	24.043	23.979	23.946	23.563	23.882
L3	16:38:09	24.725	24.725	24.335	24.432	24.367	24.432	24.335	24.013	23.948	23.948	23.597	23.852
L4	16:40:18	24.757	24.724	24.302	24.464	24.367	24.464	24.302	24.044	23.948	23.948	23.564	23.884
L4	16:40:48	24.757	24.724	24.334	24.431	24.367	24.464	24.334	24.012	23.980	23.948	23.596	23.852
L4	16:41:47	24.757	24.724	24.302	24.431	24.367	24.464	24.302	24.044	23.980	23.948	23.564	23.884
L4	16:43:48	24.758	24.693	24.336	24.466	24.368	24.433	24.239	24.046	23.982	23.917	23.598	23.885
L5	16:45:47	24.757	24.725	24.303	24.465	24.368	24.465	24.303	24.045	23.981	23.949	23.565	23.885
L5	16:46:18	24.757	24.725	24.303	24.465	24.368	24.465	24.303	24.045	23.981	23.949	23.565	23.885
L5	16:47:17	24.757	24.725	24.335	24.465	24.368	24.432	24.335	24.045	23.949	23.917	23.597	23.885
L5	16:49:17	24.759	24.726	24.337	24.466	24.369	24.434	24.337	24.047	23.982	23.918	23.598	23.886
L6	16:51:26	24.725	24.725	24.336	24.465	24.336	24.465	24.303	24.046	23.949	23.949	23.597	23.885
L6	16:51:57	24.758	24.693	24.336	24.465	24.368	24.433	24.336	24.046	23.981	23.917	23.597	23.853
L6	16:52:57	24.758	24.725	24.336	24.433	24.368	24.465	24.336	24.046	23.981	23.949	23.597	23.853
L6	16:55:18	24.727	24.727	24.337	24.467	24.337	24.467	24.240	24.047	23.951	23.951	23.599	23.887
L7	16:57:12	24.759	24.727	24.337	24.433	24.368	24.466	24.336	24.014	23.982	23.950	23.598	23.853
L7	16:57:44	24.758	24.726	24.336	24.433	24.368	24.466	24.336	24.046	23.982	23.950	23.598	23.853
L7	16:58:43	24.726	24.726	24.304	24.466	24.336	24.466	24.304	24.046	23.982	23.950	23.566	23.885
L7	17:00:41	24.760	24.727	24.337	24.435	24.370	24.467	24.337	24.015	23.983	23.951	23.599	23.855
L8	17:02:19	24.727	24.695	24.305	24.435	24.370	24.435	24.305	24.015	23.983	23.951	23.567	23.887
L8	17:02:50	24.727	24.727	24.305	24.467	24.370	24.467	24.305	24.047	23.983	23.951	23.566	23.886
L8	17:03:50	24.726	24.726	24.336	24.466	24.336	24.466	24.336	24.078	23.950	23.950	23.598	23.886
L8	17:05:49	24.759	24.726	24.336	24.466	24.369	24.433	24.336	24.046	23.982	23.949	23.597	23.885
L9	17:07:32	24.758	24.692	24.271	24.465	24.368	24.433	24.335	24.045	23.981	23.917	23.597	23.885
L9	17:07:58	24.725	24.725	24.335	24.465	24.335	24.465	24.335	24.045	23.949	23.981	23.597	23.885
L9	17:08:58	24.758	24.725	24.302	24.464	24.367	24.464	24.206	24.045	23.980	23.948	23.565	23.884
L9	17:10:58	24.757	24.724	24.302	24.432	24.367	24.464	24.302	24.045	23.980	23.948	23.565	23.884

Table F.29 continued

VIBRATING WIRE INSTRUMENT READINGS - TEMPERATURE

SBZ 2 LOAD NUMBER	TIME	VW STRN TEMP DEG C 29	VW STRN TEMP DEG C 30	VW STRN TEMP DEG C 5	VW STRN TEMP DEG C 6	VW STRN TEMP DEG C 37	VW STRN TEMP DEG C 38	VW STRN TEMP DEG C 23	VW STRN TEMP DEG C 24	VW STRN TEMP DEG C 25	VW STRN TEMP DEG C 26	VW STRN TEMP DEG C 27	VW STRN TEMP DEG C 28
L10	17:12:46	24.726	24.726	24.336	24.466	24.336	24.466	24.336	24.046	23.950	23.950	23.598	23.886
L10	17:13:16	24.759	24.693	24.336	24.466	24.369	24.433	24.336	24.078	23.982	23.918	23.598	23.886
L10	17:14:16	24.726	24.726	24.304	24.466	24.369	24.466	24.239	24.046	23.982	23.950	23.598	23.854
L10	17:16:26	24.760	24.727	24.305	24.467	24.370	24.467	24.338	24.080	23.983	23.951	23.568	23.887
L11	17:18:07	24.761	24.728	24.339	24.468	24.339	24.468	24.339	24.049	23.952	23.952	23.600	23.888
L11	17:18:36	24.761	24.696	24.339	24.468	24.371	24.436	24.339	24.049	23.984	23.920	23.600	23.888
L11	17:19:36	24.761	24.728	24.339	24.436	24.371	24.468	24.339	24.016	23.984	23.952	23.600	23.856
L11	17:21:35	24.729	24.729	24.340	24.469	24.340	24.469	24.340	24.049	23.953	23.985	23.601	23.889
L12	17:23:29	24.729	24.729	24.340	24.437	24.372	24.469	24.340	24.016	23.984	23.952	23.600	23.855
L12	17:23:59	24.760	24.728	24.338	24.468	24.338	24.468	24.241	24.080	23.952	23.952	23.600	23.887
L12	17:24:59	24.760	24.728	24.306	24.468	24.370	24.468	24.306	24.048	23.984	23.984	23.568	23.887
L12	17:27:05	24.761	24.729	24.339	24.436	24.371	24.469	24.339	24.017	23.985	23.952	23.601	23.856
L13	17:28:33	24.761	24.729	24.339	24.436	24.371	24.469	24.339	24.017	23.952	23.952	23.601	23.856
L13	17:29:04	24.761	24.729	24.339	24.469	24.371	24.469	24.339	24.017	23.985	23.952	23.601	23.856
L13	17:30:02	24.762	24.729	24.307	24.469	24.372	24.469	24.307	24.050	23.985	23.953	23.570	23.889
L13	17:32:01	24.762	24.729	24.340	24.437	24.372	24.469	24.340	24.017	23.985	23.953	23.601	23.857
L14	17:34:06	24.730	24.730	24.308	24.470	24.340	24.470	24.340	24.050	23.954	23.954	23.602	23.890
L14	17:34:36	24.763	24.697	24.340	24.470	24.373	24.438	24.244	24.050	23.986	23.922	23.602	23.890
L14	17:35:36	24.763	24.698	24.341	24.438	24.373	24.471	24.244	24.019	23.986	23.954	23.603	23.858
L14	17:37:36	24.763	24.731	24.309	24.438	24.373	24.471	24.341	24.019	23.986	23.954	23.603	23.858
L15	17:39:16	24.764	24.698	24.341	24.471	24.374	24.438	24.341	24.051	23.987	23.923	23.603	23.891
L15	17:39:49	24.764	24.731	24.341	24.471	24.374	24.438	24.341	24.051	23.987	23.923	23.603	23.891
L15	17:40:49	24.764	24.731	24.341	24.438	24.374	24.471	24.341	24.051	23.987	23.955	23.603	23.859
L15	17:42:46	24.731	24.731	24.342	24.471	24.342	24.471	24.342	24.051	23.955	23.955	23.603	23.891
L16	17:44:49	24.732	24.732	24.342	24.439	24.374	24.471	24.245	24.020	23.987	23.955	23.603	23.859
L16	17:45:19	24.764	24.732	24.342	24.471	24.342	24.471	24.342	24.052	23.955	23.955	23.603	23.891
L16	17:46:19	24.764	24.732	24.310	24.471	24.374	24.471	24.310	24.052	23.987	23.955	23.572	23.891
L16	17:48:18	24.764	24.732	24.310	24.472	24.375	24.472	24.213	24.052	23.988	23.956	23.572	23.891
L17	17:50:03	24.764	24.732	24.310	24.472	24.375	24.472	24.310	24.052	23.988	23.956	23.572	23.892
L17	17:50:33	24.765	24.732	24.342	24.472	24.375	24.472	24.342	24.020	23.988	23.956	23.604	23.892
L17	17:51:33	24.765	24.732	24.310	24.472	24.375	24.439	24.245	24.052	23.988	23.924	23.604	23.892
L17	17:53:32	24.765	24.700	24.342	24.472	24.375	24.440	24.246	24.052	23.988	23.924	23.604	23.892
L17A	17:56:03	24.765	24.732	24.310	24.472	24.375	24.472	24.310	24.052	23.988	23.956	23.572	23.892
U1	18:00:22	24.732	24.732	24.343	24.472	24.343	24.440	24.343	24.052	23.924	23.956	23.604	23.892
U2	18:04:29	24.732	24.732	24.343	24.472	24.375	24.440	24.343	24.052	23.956	23.926	23.607	23.894
U3	18:08:28	24.734	24.702	24.345	24.474	24.377	24.442	24.345	24.054	23.958	23.926	23.606	23.894
U4	18:12:07	24.734	24.734	24.344	24.474	24.344	24.474	24.344	24.054	23.926	23.958	23.606	23.893
U5	18:16:07	24.701	24.701	24.344	24.474	24.344	24.474	24.344	24.054	23.925	23.957	23.606	23.893
U6	18:20:00	24.703	24.703	24.313	24.443	24.345	24.443	24.345	24.023	23.959	23.959	23.607	23.831
U6A	18:22:59	24.737	24.737	24.315	24.477	24.380	24.444	24.315	24.057	23.960	23.960	23.577	23.896
U6A	18:37:59	24.741	24.741	24.351	24.480	24.351	24.448	24.351	24.060	23.932	23.964	23.612	23.868
U6A	18:52:59	24.751	24.751	24.328	24.490	24.393	24.458	24.328	24.070	23.974	23.974	23.558	23.877
U6A	18:56:01	24.751	24.751	24.362	24.459	24.394	24.459	24.362	24.039	23.975	23.975	23.591	23.846

Table F.29 Continued

VIBRATING WIRE CALCULATED STRAIN

SBZ 2 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 29	VW STRN MICRO STRAIN 30	VW STRN MICRO STRAIN 5	VW STRN MICRO STRAIN 6	VW STRN MICRO STRAIN 37	VW STRN MICRO STRAIN 38	VW STRN MICRO STRAIN 23	VW STRN MICRO STRAIN 24	VW STRN MICRO STRAIN 25	VW STRN MICRO STRAIN 26	VW STRN MICRO STRAIN 27	VW STRN MICRO STRAIN 28
L0	15:10:00	0.6	-0.3	-2.0	0.8	0.6	0.4	0.1	0.1	0.0	0.0	0.1	0.1
L0	15:25:00	0.5	-0.2	-2.2	0.6	0.5	0.3	0.1	0.0	-0.0	0.1	0.1	-0.0
L0	15:40:00	0.3	-0.1	-2.2	0.4	0.3	0.1	0.1	0.1	-0.0	-0.0	0.1	0.1
L0	15:55:00	0.1	-0.0	1.3	0.1	0.1	0.1	0.1	0.0	-0.0	-0.0	0.0	-0.0
L0	16:10:00	0.2	-0.2	1.3	0.2	0.1	-0.0	0.1	0.0	-0.0	-0.0	0.0	0.0
L0	16:19:18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
L1	16:21:52	0.6	-0.3	-1.8	1.3	0.8	1.8	2.8	2.9	5.2	4.4	9.5	8.1
L1	16:22:22	0.6	-0.3	-1.7	1.4	0.9	1.9	2.9	2.8	5.3	4.5	9.7	8.1
L1	16:23:21	0.5	-0.3	-1.7	1.4	0.8	1.9	2.9	2.9	5.2	4.6	9.8	8.2
L1	16:25:21	0.6	-0.3	-1.7	1.4	0.9	1.9	3.0	3.0	5.3	4.7	10.0	8.4
L1	16:26:13	0.5	-0.3	-1.7	1.4	0.9	2.0	2.9	3.0	5.2	4.7	10.0	8.3
L2	16:28:49	-0.1	-0.5	2.5	4.4	4.4	4.9	8.2	8.9	15.1	14.2	26.1	29.2
L2	16:29:20	-0.1	-0.4	2.8	4.5	4.7	5.1	8.6	9.0	15.5	14.5	26.2	29.9
L2	16:30:20	-0.1	-0.4	3.3	4.5	5.0	5.3	8.8	9.2	16.0	15.0	26.4	30.4
L2	16:32:20	-0.0	-0.4	3.8	4.6	5.3	5.5	9.2	9.4	16.0	15.1	26.4	31.0
L3	16:34:39	2.1	1.5	4.0	6.5	9.2	9.4	17.1	16.0	28.5	26.2	43.9	52.8
L3	16:35:11	2.0	1.7	4.3	6.8	7.6	9.8	17.3	16.4	29.3	26.7	44.8	53.7
L3	16:36:10	1.9	1.7	4.7	7.4	7.6	10.2	17.7	16.9	30.0	27.2	45.7	54.4
L3	16:38:09	1.9	1.8	5.3	7.9	8.0	10.6	17.7	17.3	30.6	27.6	46.3	55.8
L4	16:40:18	1.9	2.1	7.2	10.9	13.3	14.4	24.9	24.6	44.0	40.1	63.6	77.6
L4	16:40:48	2.0	2.4	7.6	11.1	14.0	14.7	25.4	24.9	44.6	40.3	64.9	78.9
L4	16:41:47	2.1	2.4	8.4	11.4	13.9	15.0	26.9	25.4	45.1	41.0	65.9	79.8
L4	16:43:48	2.1	2.4	9.2	11.8	13.3	15.5	26.8	25.9	46.0	41.7	66.9	81.2
L5	16:45:47	2.7	2.5	12.1	14.9	18.7	20.4	34.0	33.5	60.6	54.6	85.7	103.6
L5	16:46:18	2.7	2.5	12.6	15.2	19.0	20.5	34.7	34.0	62.4	55.2	86.8	104.6
L5	16:47:17	2.7	2.6	12.8	15.5	19.4	21.3	35.6	34.3	62.1	55.8	87.7	105.9
L5	16:49:17	2.7	2.6	13.2	15.9	19.9	21.7	36.0	34.6	63.0	56.4	88.6	107.2
L6	16:51:26	3.5	2.8	16.6	19.9	23.6	25.9	43.2	42.6	77.8	70.9	107.3	129.3
L6	16:51:57	3.5	2.8	17.1	20.1	24.4	26.2	43.5	43.0	78.9	71.2	107.6	130.3
L6	16:52:57	3.8	2.6	18.0	20.3	25.2	26.8	43.8	43.2	79.7	71.4	109.1	131.2
L6	16:55:18	4.1	2.8	20.0	20.4	26.0	27.7	44.1	43.4	80.2	71.5	110.0	132.3
L7	16:57:12	5.0	2.9	19.4	22.4	27.8	30.1	47.8	47.4	87.2	78.4	119.6	143.1
L7	16:57:44	4.3	2.8	19.5	22.6	27.8	30.0	47.9	47.6	87.4	78.8	120.3	143.8
L7	16:58:43	4.2	2.8	19.9	22.8	27.4	30.0	48.2	47.8	87.8	79.2	120.9	144.4
L7	17:00:41	4.2	3.0	20.4	23.3	27.0	30.4	48.2	47.9	88.2	79.4	121.6	145.0
L8	17:02:19	4.4	3.0	22.7	25.1	30.8	33.0	52.2	51.5	95.3	86.6	130.6	155.1
L8	17:02:50	4.5	2.9	24.0	25.2	31.3	33.1	52.5	51.9	96.0	86.4	131.3	155.9
L8	17:03:50	4.5	3.0	24.8	25.5	32.0	33.5	52.6	52.0	96.5	86.8	131.7	156.4
L8	17:05:49	4.5	3.0	23.1	26.1	32.4	34.3	52.7	52.1	96.8	86.9	132.1	157.0
L9	17:07:32	4.9	3.1	24.4	27.2	33.8	36.4	56.7	56.2	104.4	95.0	141.8	167.9
L9	17:07:58	4.9	3.2	24.6	27.2	34.0	36.6	56.8	56.3	104.7	95.8	141.8	168.1
L9	17:08:58	5.0	3.2	25.4	27.9	34.4	37.0	57.3	56.5	104.7	95.7	142.4	168.5
L9	17:10:58	5.1	3.2	26.2	28.8	34.8	37.4	57.2	56.5	104.9	94.9	143.0	169.0

Table F.29 Continued

VIBRATING WIRE CALCULATED STRAIN

SBZ 2 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 29	VW STRN MICRO STRAIN 30	VW STRN MICRO STRAIN 5	VW STRN MICRO STRAIN 6	VW STRN MICRO STRAIN 37	VW STRN MICRO STRAIN 38	VW STRN MICRO STRAIN 23	VW STRN MICRO STRAIN 24	VW STRN MICRO STRAIN 25	VW STRN MICRO STRAIN 26	VW STRN MICRO STRAIN 27	VW STRN MICRO STRAIN 28
L10	17:12:46	6.1	3.1	27.5	30.1	35.8	40.0	61.5	60.6	112.9	102.4	153.2	179.9
L10	17:13:16	6.2	3.1	27.6	30.4	36.3	40.2	61.8	60.7	113.1	102.6	153.6	180.1
L10	17:14:16	6.2	3.3	28.0	30.9	36.9	40.3	61.9	60.9	113.3	103.0	154.5	180.9
L10	17:16:26	6.3	3.3	28.7	31.4	38.0	41.1	61.9	60.9	113.5	103.0	154.8	181.7
L11	17:18:07	6.5	3.1	30.2	33.7	40.6	43.2	66.0	65.1	121.0	110.1	163.7	191.6
L11	17:18:36	6.5	3.2	30.4	33.9	40.7	43.5	66.0	65.4	121.7	110.8	164.5	192.6
L11	17:19:36	6.5	3.1	31.3	34.2	41.6	44.0	66.2	65.6	121.8	111.2	164.7	193.2
L11	17:21:35	6.6	3.2	32.0	33.7	42.4	44.4	66.3	65.5	122.3	111.4	166.6	193.5
L12	17:23:29	6.8	2.9	32.8	35.1	42.6	46.6	70.5	69.7	130.1	119.0	175.8	204.4
L12	17:23:59	6.9	2.9	33.1	35.2	43.0	46.8	70.9	69.8	130.6	118.8	175.9	204.6
L12	17:24:59	6.9	2.9	33.4	35.3	43.4	46.9	70.6	69.6	130.7	118.8	176.9	205.1
L12	17:27:05	7.0	2.8	34.0	35.6	44.1	46.9	70.3	69.6	130.8	119.4	177.9	206.0
L13	17:28:33	7.0	2.8	36.3	38.2	46.2	48.5	73.8	73.1	138.5	126.8	187.6	216.0
L13	17:29:04	7.2	2.8	36.2	38.4	46.1	48.4	73.6	72.9	138.5	126.6	187.7	216.2
L13	17:30:02	7.1	2.8	36.2	38.4	45.9	48.3	73.2	72.4	138.7	126.9	188.4	216.9
L13	17:32:01	7.1	2.8	36.0	38.7	46.0	48.0	72.7	71.9	138.7	126.8	188.8	217.4
L14	17:34:06	7.3	3.0	36.2	39.8	47.2	49.0	76.2	75.3	147.7	135.6	200.5	229.9
L14	17:34:36	7.2	3.1	36.1	39.7	46.8	48.8	75.8	74.9	147.8	135.7	202.0	230.3
L14	17:35:36	7.2	3.0	36.0	39.6	46.5	48.4	75.1	74.4	147.9	135.7	202.6	231.1
L14	17:37:36	7.1	3.0	36.0	39.4	46.3	47.9	74.8	73.5	148.0	135.9	203.7	232.0
L15	17:39:16	7.2	3.1	36.2	39.7	46.5	48.1	76.3	75.2	153.4	141.2	211.3	240.2
L15	17:39:49	7.1	3.0	36.2	39.6	46.5	47.9	76.0	74.8	153.5	141.6	212.2	241.0
L15	17:40:49	7.2	2.9	36.0	39.4	46.1	47.3	75.0	74.2	153.6	141.7	212.3	241.8
L15	17:42:46	7.2	2.9	35.8	39.2	45.8	47.0	75.4	73.4	153.8	142.2	214.4	242.8
L16	17:44:49	7.2	2.8	36.0	39.5	45.9	46.9	76.8	74.8	159.6	149.5	223.0	253.6
L16	17:45:19	7.1	2.9	36.0	39.4	45.8	46.8	76.4	74.6	159.8	149.6	223.2	254.1
L16	17:46:19	7.1	2.8	35.9	39.3	45.6	46.7	76.1	74.2	160.2	149.5	225.5	255.8
L16	17:48:18	7.1	2.8	36.0	39.3	45.6	46.5	75.6	73.1	159.3	149.5	226.5	257.3
L17	17:50:03	7.2	2.8	36.1	39.5	45.9	46.7	76.3	73.4	160.6	150.7	230.3	261.8
L17	17:50:33	7.2	2.8	36.1	39.6	46.0	46.5	76.0	73.0	160.0	150.2	232.9	262.4
L17	17:51:33	7.0	2.7	36.2	39.8	46.1	46.8	76.3	72.8	159.7	149.8	234.0	262.5
L17	17:53:32	7.1	2.7	36.2	39.9	46.4	46.9	75.5	72.2	158.1	147.7	236.3	264.0
L17A	17:56:03	7.1	2.8	36.9	40.5	46.7	47.1	75.5	71.8	157.1	144.7	233.9	261.6
U1	18:00:22	6.9	3.0	36.4	39.9	46.4	46.8	72.0	68.4	149.1	136.8	220.0	246.4
U2	18:04:29	5.0	2.4	28.6	31.2	34.0	34.3	51.9	48.4	119.0	106.6	170.6	205.4
U3	18:08:28	1.7	-0.5	19.2	21.5	23.0	21.5	31.7	27.4	88.3	75.9	130.5	160.0
U4	18:12:07	-0.4	-0.0	11.2	13.8	13.8	10.6	14.1	10.5	62.3	50.4	98.2	122.8
U5	18:16:07	-2.0	-3.4	2.1	4.6	1.6	-1.5	-7.3	-9.5	26.4	18.4	59.5	75.1
U6	18:20:00	-2.5	-3.7	-5.5	-1.5	-6.7	-12.5	-34.0	-35.2	-30.0	-25.7	4.8	-1.7
U6A	18:22:59	-2.7	-3.8	-5.8	-1.7	-6.2	-13.1	-34.2	-35.5	-30.2	-25.6	4.5	-2.7
U6A	18:37:59	-2.9	-3.7	-6.6	-2.5	-7.5	-14.2	-35.0	-35.9	-30.6	-25.5	3.6	-3.7
U6A	18:52:59	-2.9	-3.7	-3.9	-3.3	-7.8	-14.3	-35.2	-35.8	-30.7	-25.3	3.3	-4.1
U6A	18:56:01	-2.9	-3.7	-4.3	-3.5	-7.9	-14.5	-35.3	-35.8	-30.8	-25.3	3.2	-4.1

Table F.29 continued

VIBRATING WIRE CALCULATED STRAIN (4 MINUTE READINGS)

SBZ 2 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 29	VW STRN MICRO STRAIN 30	VW STRN MICRO STRAIN 5	VW STRN MICRO STRAIN 6	VW STRN MICRO STRAIN 37	VW STRN MICRO STRAIN 38	VW STRN MICRO STRAIN 23	VW STRN MICRO STRAIN 24	VW STRN MICRO STRAIN 25	VW STRN MICRO STRAIN 26	VW STRN MICRO STRAIN 27	VW STRN MICRO STRAIN 28
L0	16:19:18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
L1	16:26:13	0.5	-0.3	-1.7	1.4	0.9	2.0	2.9	3.0	5.2	4.7	10.0	8.3
L2	16:32:20	-0.0	-0.4	3.8	4.6	5.3	5.5	9.2	9.4	16.0	15.1	26.4	31.0
L3	16:38:09	1.9	1.8	5.3	7.9	8.0	10.6	17.7	17.3	30.6	27.6	46.3	55.8
L4	16:43:48	2.1	2.4	9.2	11.8	13.3	15.5	26.8	25.9	46.0	41.7	66.9	81.2
L5	16:49:17	2.7	2.6	13.2	15.9	19.9	21.7	36.0	34.6	63.0	56.4	88.6	107.2
L6	16:55:18	4.1	2.8	20.0	20.4	26.0	27.7	44.1	43.4	80.2	71.5	110.0	132.3
L7	17:00:41	4.2	3.0	20.4	23.3	27.0	30.4	48.2	47.9	88.2	79.4	121.6	145.0
L8	17:05:49	4.5	3.0	23.1	26.1	32.4	34.3	52.7	52.1	96.8	86.9	132.1	157.0
L9	17:10:58	5.1	3.2	26.2	28.8	34.8	37.4	57.2	56.5	104.9	94.9	143.0	169.0
L10	17:16:26	6.3	3.3	28.7	31.4	38.0	41.1	61.9	60.9	113.5	103.0	154.8	181.7
L11	17:21:35	6.6	3.2	32.0	33.7	42.4	44.4	66.3	65.5	122.3	111.4	166.6	193.5
L12	17:27:05	7.0	2.8	34.0	35.6	44.1	46.9	70.3	69.6	130.8	119.4	177.9	206.0
L13	17:32:01	7.1	2.8	36.0	38.7	46.0	48.0	72.7	71.9	138.7	126.8	188.8	217.4
L14	17:37:36	7.1	3.0	36.0	39.4	46.3	47.9	74.8	73.5	148.0	135.9	203.7	232.0
L15	17:42:46	7.2	2.9	35.8	39.2	45.8	47.0	75.4	73.4	153.8	142.2	214.4	242.8
L16	17:48:18	7.1	2.8	36.0	39.3	45.6	46.5	75.6	73.1	159.3	149.5	226.5	257.3
L17	17:53:32	7.1	2.7	36.2	39.9	46.4	46.9	75.5	72.2	158.1	147.7	236.3	264.0
L17A	17:56:03	7.1	2.8	36.9	40.5	46.7	47.1	75.5	71.8	157.1	144.7	233.9	261.6
U1	18:00:22	6.9	3.0	36.4	39.9	46.4	46.8	72.0	68.4	149.1	136.8	220.0	246.4
U2	18:04:29	5.0	2.4	28.6	31.2	34.0	34.3	51.9	48.4	119.0	106.6	170.6	205.4
U3	18:08:28	1.7	-0.5	19.2	21.5	23.0	21.5	31.7	27.4	88.3	75.9	130.5	160.0
U4	18:12:07	-0.4	-0.0	11.2	13.8	13.8	10.6	14.1	10.5	62.3	50.4	98.2	122.8
U5	18:16:07	-2.0	-3.4	2.1	4.6	1.6	-1.5	-7.3	-9.5	26.4	18.4	59.5	75.1
U6	18:20:00	-2.5	-3.7	-5.5	-1.5	-6.7	-12.5	-34.0	-35.2	-30.0	-25.7	4.8	-1.7
U6A	18:22:59	-2.7	-3.8	-5.8	-1.7	-6.2	-13.1	-34.2	-35.5	-30.2	-25.6	4.5	-2.7

Table F.29 continued

AVERAGE STRAIN AT EACH GAGE LEVEL, INTEGRATED PILE COMPRESSION & COMPARISON WITH TELLTALE MEASUREMENT (4 MINUTE READINGS)

SBZ 2 LOAD NUMBER	AVG VW MICRO STRAIN SURFACE	AVG VW MICRO STRAIN 29+30	AVG VW MICRO STRAIN 5+6	AVG VW MICRO STRAIN 37+38	AVG VW MICRO STRAIN 23+24	AVG VW MICRO STRAIN 25+26	AVG VW MICRO STRAIN 27+28	EST'D. MICRO STRAIN CELL TOP	PILE COMPRESSION SG MSMT. INCHES	TT MSMT. INCHES	ABS.DIFF. SG-TT INCHES
L0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0000	0.0000	0.0000
L1	0.0	0.1	-0.1	1.4	2.9	5.0	9.1	24.8	0.0016	0.0005	0.0012
L2	0.0	-0.2	4.2	5.4	9.3	15.6	28.7	49.9	0.0057	0.0039	0.0019
L3	0.0	1.8	6.6	9.3	17.5	29.1	51.0	74.9	0.0107	0.0079	0.0028
L4	0.0	2.3	10.5	14.4	26.4	43.9	74.0	99.8	0.0159	0.0126	0.0034
L5	0.0	2.7	14.6	20.8	35.3	59.7	97.9	124.9	0.0215	0.0173	0.0042
L6	0.0	3.4	20.2	26.9	43.8	75.9	121.1	149.9	0.0274	0.0222	0.0052
L7	0.0	3.6	21.9	28.7	48.0	83.8	133.3	162.4	0.0298	0.0247	0.0051
L8	0.0	3.8	24.6	33.3	52.4	91.8	144.5	174.8	0.0329	0.0272	0.0057
L9	0.0	4.1	27.5	36.1	56.9	99.9	156.0	187.3	0.0359	0.0297	0.0062
L10	0.0	4.8	30.0	39.6	61.4	108.3	168.2	199.8	0.0389	0.0325	0.0064
L11	0.0	4.9	32.9	43.4	65.9	116.8	180.1	212.2	0.0420	0.0350	0.0070
L12	0.0	4.9	34.8	45.5	70.0	125.1	192.0	224.8	0.0446	0.0374	0.0072
L13	0.0	5.0	37.4	47.0	72.3	132.8	203.1	237.0	0.0469	0.0394	0.0075
L14	0.0	5.0	37.7	47.1	74.2	141.9	217.8	252.1	0.0488	0.0412	0.0076
L15	0.0	5.0	37.5	46.4	74.4	148.0	228.6	262.3	0.0498	0.0420	0.0078
L16	0.0	4.9	37.6	46.0	74.4	154.4	241.9	274.7	0.0510	0.0430	0.0080
L17	0.0	4.9	38.1	46.6	73.8	152.9	250.2	280.9	0.0513	0.0431	0.0082
L17A	0.0	5.0	38.7	46.9	73.6	150.9	247.8	280.9	0.0511	0.0431	0.0080
U1	0.0	5.0	38.1	46.6	70.2	142.9	233.2	258.3	0.0490	0.0420	0.0070
U2	0.0	3.7	29.9	34.2	50.2	112.8	188.0	190.7	0.0376	0.0326	0.0050
U3	0.0	0.6	20.4	22.2	29.5	82.1	145.3	139.3	0.0256	0.0220	0.0037
U4	0.0	-0.2	12.5	12.2	12.3	56.4	110.5	101.4	0.0162	0.0134	0.0028
U5	0.0	-2.7	3.4	0.1	-8.4	22.4	67.3	57.6	0.0041	0.0032	0.0009
U6	0.0	-3.1	-3.5	-9.6	-34.6	-27.8	1.5	0.0	-0.0099	-0.0094	-0.0005
U6A	0.0	-3.2	-3.8	-9.6	-34.9	-27.9	0.9	0.0	-0.0100	-0.0100	-0.0001

ELEV. FT	6.30	-14.63	-36.13	-46.63	-57.63	-68.63	-73.63	-75.13

Table F.29 continued

VIBRATING WIRE CALCULATED AVERAGE LOADS (4 MINUTE READINGS)

LA = 5.00 ft ACA = 317.115 si
LB = 1.50 ft ACB = 313.155 si
B = 18.00 in ASA = 3.538 si
ES = 27500.0 ksi ASB = 7.498 si

SBZ 2 LOAD NUMBER	AVG VW LOAD TONS SURFACE	AVG VW LOAD TONS 29+30	AVG VW LOAD TONS 5+6	AVG VW LOAD TONS 37+38	AVG VW LOAD TONS 23+24	AVG VW LOAD TONS 25+26	AVG VW LOAD TONS 27+28	OSTERBERG LOAD TONS BOTTOM	INCR. PILE MODULUS KSI	CALC. PILE A MODULUS KSI	CALC. PILE B MODULUS KSI
L0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0		4657.9	4939.6
L1	0.0	0.10	-0.11	1.07	2.22	3.75	7.31	19.9	13421.1	4657.9	4939.6
L2	0.0	-0.16	3.19	4.09	7.01	11.75	22.95	39.9	7125.0	4657.9	4939.6
L3	0.0	1.38	5.00	6.99	13.22	21.92	40.84	59.9	5942.1	4657.9	4939.6
L4	0.0	1.72	7.91	10.86	19.89	33.09	59.25	79.9	5434.8	4657.9	4939.6
L5	0.0	2.01	10.98	15.73	26.64	45.06	78.32	99.9	5133.0	4657.9	4939.6
L6	0.0	2.59	15.24	20.28	33.02	57.24	96.94	119.9	4977.9	4657.9	4939.6
L7	0.0	2.69	16.49	21.65	36.24	63.24	106.66	129.9	4894.4	4657.9	4939.6
L8	0.0	2.84	18.54	25.15	39.55	69.28	115.66	139.9	4864.4	4657.9	4939.6
L9	0.0	3.11	20.75	27.25	42.92	75.39	124.86	149.9	4828.4	4657.9	4939.6
L10	0.0	3.61	22.66	29.85	46.33	81.69	134.60	159.9	4776.4	4657.9	4939.6
L11	0.0	3.69	24.79	32.72	49.72	88.16	144.09	169.8	4740.8	4657.9	4939.6
L12	0.0	3.71	26.24	34.35	52.80	94.41	153.61	179.9	4708.2	4657.9	4939.6
L13	0.0	3.76	28.20	35.47	54.56	100.19	162.53	189.7	4692.8	4657.9	4939.6
L14	0.0	3.79	28.42	35.56	55.96	107.11	174.32	201.7	4644.9	4657.9	4939.6
L15	0.0	3.80	28.28	35.00	56.13	111.67	182.93	209.9	4593.6	4657.9	4939.6
L16	0.0	3.73	28.39	34.73	56.11	116.49	193.54	219.8	4528.1	4657.9	4939.6
L17	0.0	3.72	28.74	35.18	55.72	115.37	200.18	224.8	4433.4	4657.9	4939.6
L17A	0.0	3.75	29.19	35.39	55.56	113.89	198.26	224.8		4657.9	4939.6
U1	0.0	3.75	28.78	35.14	52.95	107.86	186.61	206.7		4657.9	4939.6
U2	0.0	2.80	22.56	25.77	37.85	85.15	150.43	152.6		4657.9	4939.6
U3	0.0	0.47	15.36	16.78	22.29	61.96	116.24	111.5		4657.9	4939.6
U4	0.0	-0.15	9.43	9.18	9.29	42.54	88.42	81.2		4657.9	4939.6
U5	0.0	-2.05	2.55	0.04	-6.35	16.90	53.83	46.1		4657.9	4939.6
U6	0.0	-2.37	-2.65	-7.24	-26.10	-20.98	1.23	0.0		4657.9	4939.6
U6A	0.0	-2.43	-2.84	-7.25	-26.31	-21.07	0.72	0.0		4657.9	4939.6
ELEV. FT	6.30	-14.63	-36.13	-46.63	-57.63	-68.63	-73.63	-75.13	4452.2 KSI = CONCRETE MODULUS		

Table F.29 continued

INTEGRATED MOVEMENT AT VW STRAIN GAGE (4 MINUTE READINGS)

SBZ 2 LOAD NUMBER	VW MOVEMENT INCHES SURFACE	VW MOVEMENT INCHES 29+30	VW MOVEMENT INCHES 5+6	VW MOVEMENT INCHES 37+38	VW MOVEMENT INCHES 23+24	VW MOVEMENT INCHES 25+26	VW MOVEMENT INCHES 27+28	VW MOVEMENT INCHES CELL TOP
L0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L1	-0.0012	-0.0012	-0.0012	-0.0011	-0.0008	-0.0003	0.0001	0.0005
L2	-0.0019	-0.0019	-0.0014	-0.0008	0.0002	0.0018	0.0031	0.0039
L3	-0.0028	-0.0026	-0.0015	-0.0005	0.0013	0.0044	0.0068	0.0079
L4	0.0016	0.0019	0.0036	0.0051	0.0078	0.0124	0.0160	0.0175
L5	0.0008	0.0011	0.0034	0.0056	0.0093	0.0156	0.0203	0.0223
L6	0.0048	0.0052	0.0083	0.0112	0.0159	0.0238	0.0297	0.0322
L7	0.0099	0.0103	0.0136	0.0168	0.0218	0.0305	0.0370	0.0397
L8	0.0093	0.0098	0.0135	0.0171	0.0228	0.0323	0.0394	0.0422
L9	0.0138	0.0144	0.0184	0.0224	0.0286	0.0389	0.0466	0.0497
L10	0.0186	0.0192	0.0236	0.0280	0.0347	0.0459	0.0542	0.0575
L11	0.0230	0.0236	0.0284	0.0332	0.0405	0.0525	0.0614	0.0650
L12	0.0278	0.0284	0.0335	0.0386	0.0462	0.0591	0.0686	0.0723
L13	0.0375	0.0381	0.0436	0.0489	0.0568	0.0703	0.0804	0.0843
L14	0.0524	0.0530	0.0585	0.0639	0.0719	0.0861	0.0969	0.1012
L15	0.0772	0.0779	0.0834	0.0886	0.0966	0.1113	0.1226	0.1270
L16	0.1420	0.1426	0.1481	0.1534	0.1613	0.1764	0.1883	0.1929
L17	0.2268	0.2274	0.2330	0.2383	0.2463	0.2612	0.2733	0.2781
L17A	0.2870	0.2876	0.2932	0.2986	0.3066	0.3214	0.3333	0.3381
U1	0.3080	0.3086	0.3141	0.3195	0.3272	0.3412	0.3525	0.3569
U2	0.3100	0.3105	0.3148	0.3188	0.3244	0.3352	0.3442	0.3476
U3	0.3063	0.3064	0.3091	0.3118	0.3152	0.3226	0.3294	0.3320
U4	0.3022	0.3022	0.3038	0.3053	0.3070	0.3115	0.3165	0.3184
U5	0.2941	0.2937	0.2938	0.2940	0.2935	0.2944	0.2971	0.2982
U6	0.2705	0.2701	0.2692	0.2684	0.2655	0.2614	0.2606	0.2606
U6A	0.2701	0.2697	0.2688	0.2679	0.2650	0.2609	0.2600	0.2601

Table F.29 continued

INTEGRATED MOVEMENT AT SEGMENT CL (4 MINUTE READINGS)

SBZ 2 LOAD NUMBER CL.ELEV.	AVG VW MOVEMENT INCHES -4.17	AVG VW MOVEMENT INCHES -25.38	AVG VW MOVEMENT INCHES -41.38	AVG VW MOVEMENT INCHES -52.13	AVG VW MOVEMENT INCHES -63.13	AVG VW MOVEMENT INCHES -71.13
L0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L2	0.0000	0.0000	0.0000	0.0000	0.0010	0.0025
L3	0.0000	0.0000	0.0000	0.0004	0.0028	0.0056
L4	0.0018	0.0027	0.0043	0.0065	0.0101	0.0142
L5	0.0010	0.0022	0.0045	0.0074	0.0124	0.0179
L6	0.0050	0.0068	0.0098	0.0136	0.0199	0.0268
L7	0.0101	0.0119	0.0152	0.0193	0.0262	0.0338
L8	0.0096	0.0116	0.0153	0.0199	0.0275	0.0358
L9	0.0141	0.0164	0.0204	0.0255	0.0338	0.0428
L10	0.0189	0.0214	0.0258	0.0314	0.0403	0.0500
L11	0.0233	0.0260	0.0308	0.0368	0.0465	0.0570
L12	0.0281	0.0310	0.0361	0.0424	0.0526	0.0638
L13	0.0378	0.0409	0.0462	0.0528	0.0635	0.0754
L14	0.0527	0.0558	0.0612	0.0679	0.0790	0.0915
L15	0.0776	0.0806	0.0860	0.0926	0.1039	0.1169
L16	0.1423	0.1454	0.1507	0.1573	0.1689	0.1824
L17	0.2271	0.2302	0.2356	0.2423	0.2537	0.2673
L17A	0.2873	0.2904	0.2959	0.3026	0.3140	0.3274
U1	0.3083	0.3114	0.3168	0.3233	0.3342	0.3469
U2	0.3102	0.3126	0.3168	0.3216	0.3298	0.3397
U3	0.3064	0.3077	0.3104	0.3135	0.3189	0.3260
U4	0.3022	0.3030	0.3046	0.3061	0.3092	0.3140
U5	0.2939	0.2938	0.2939	0.2937	0.2939	0.2957
U6	0.2703	0.2697	0.2688	0.2669	0.2634	0.2610
U6A	0.2699	0.2692	0.2684	0.2665	0.2629	0.2604

Table F.29 continued

AVERAGE SEGMENT SHEAR STRESS (4 MINUTE READINGS)

SBZ 2 LOAD NUMBER	AVG VW SHEAR TSF	AVG VW SHEAR TSF	AVG VW SHEAR TSF	AVG VW SHEAR TSF	AVG VW SHEAR TSF	AVG VW SHEAR TSF
CL.ELEV.	-4.17	-25.38	-41.38	-52.13	-63.13	-71.13
L0	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016
L1	-0.016	-0.018	0.002	0.001	0.007	0.102
L2	-0.018	0.010	-0.002	0.028	0.055	0.357
L3	-0.005	0.012	0.015	0.078	0.116	0.614
L4	-0.003	0.032	0.030	0.120	0.184	0.855
L5	-0.000	0.053	0.059	0.149	0.263	1.092
L6	0.004	0.082	0.064	0.177	0.351	1.307
L7	0.005	0.091	0.065	0.205	0.393	1.431
L8	0.006	0.105	0.089	0.202	0.434	1.530
L9	0.008	0.120	0.087	0.221	0.475	1.633
L10	0.012	0.131	0.098	0.233	0.519	1.747
L11	0.013	0.147	0.109	0.241	0.566	1.848
L12	0.013	0.158	0.112	0.263	0.614	1.957
L13	0.013	0.173	0.099	0.273	0.675	2.062
L14	0.014	0.175	0.097	0.293	0.759	2.224
L15	0.014	0.173	0.090	0.304	0.825	2.359
L16	0.013	0.175	0.084	0.308	0.898	2.552
L17	0.013	0.178	0.086	0.295	0.887	2.810
L17A	0.013	0.181	0.082	0.289	0.867	2.796
U1	0.013	0.178	0.085	0.253	0.816	2.609
U2	0.006	0.137	0.035	0.167	0.700	2.160
U3	-0.013	0.099	0.006	0.067	0.585	1.793
U4	-0.018	0.058	-0.020	-0.015	0.487	1.513
U5	-0.033	0.019	-0.056	-0.113	0.336	1.215
U6	-0.035	-0.019	-0.089	-0.302	0.061	0.724
U6A	-0.036	-0.020	-0.087	-0.305	0.063	0.710

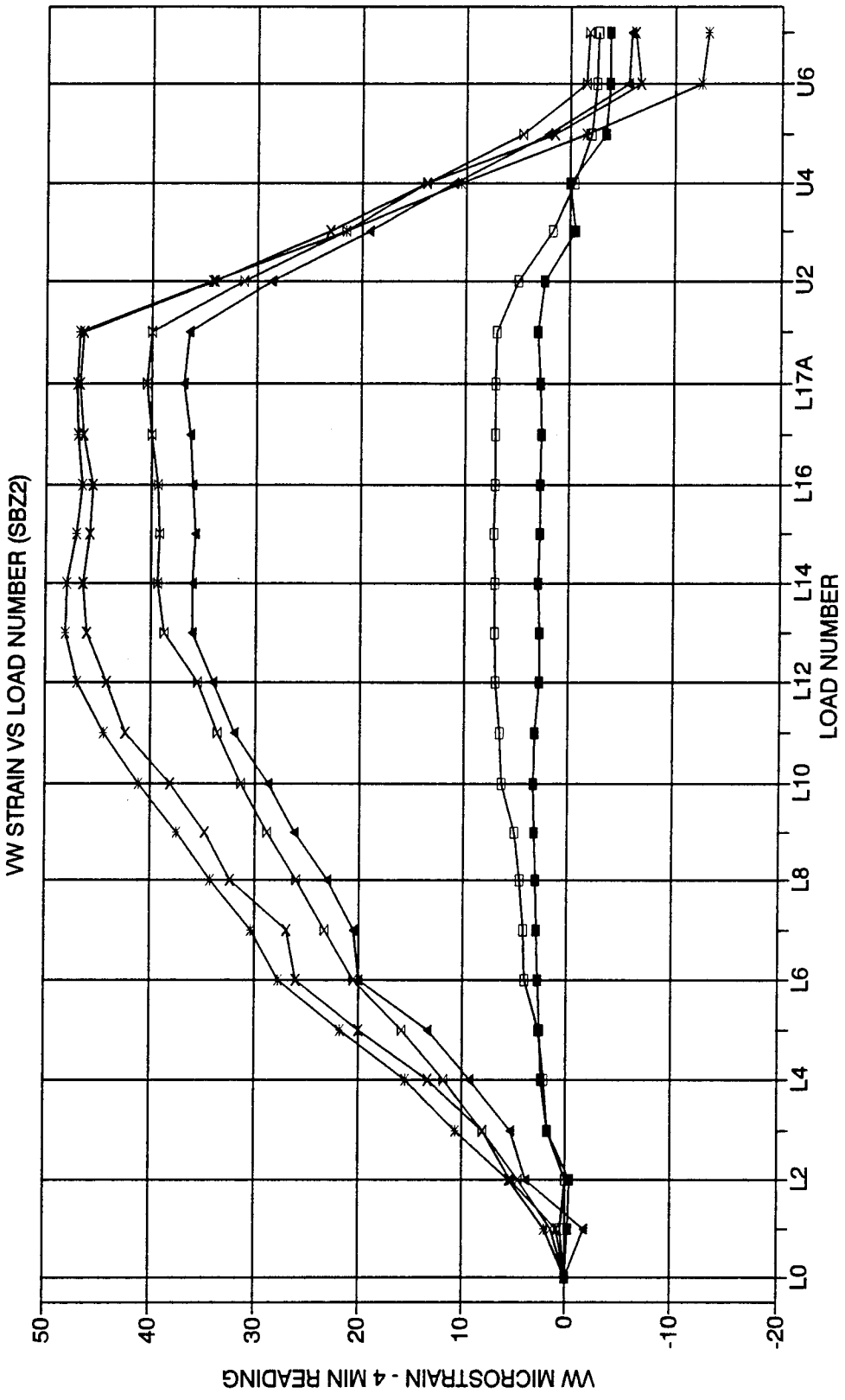

Figure F.153 Strain at Pile Top: Seabreeze Load Test 2

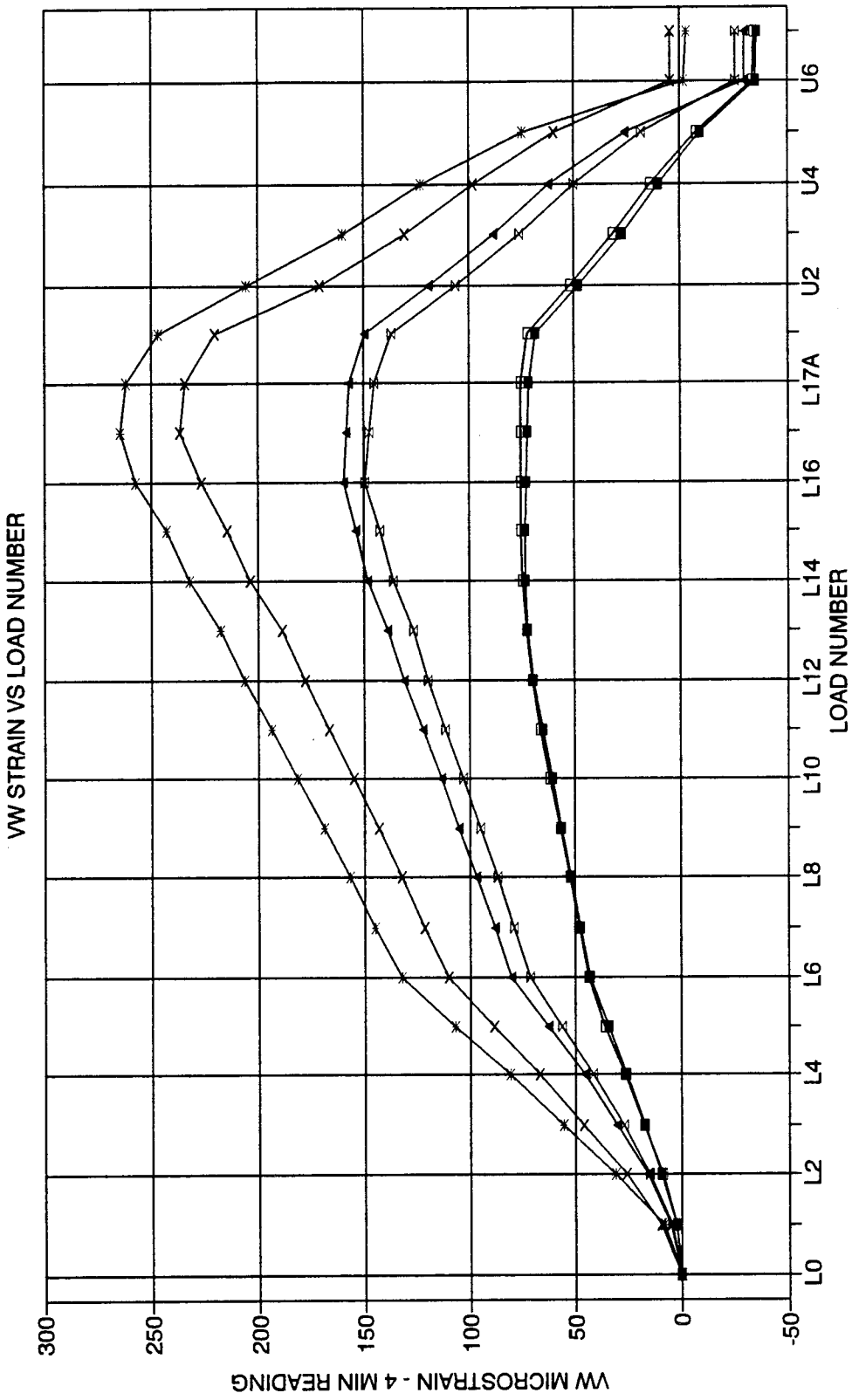

Figure F.154 Strain at Pile Bottom: Seabreeze Load Test 2

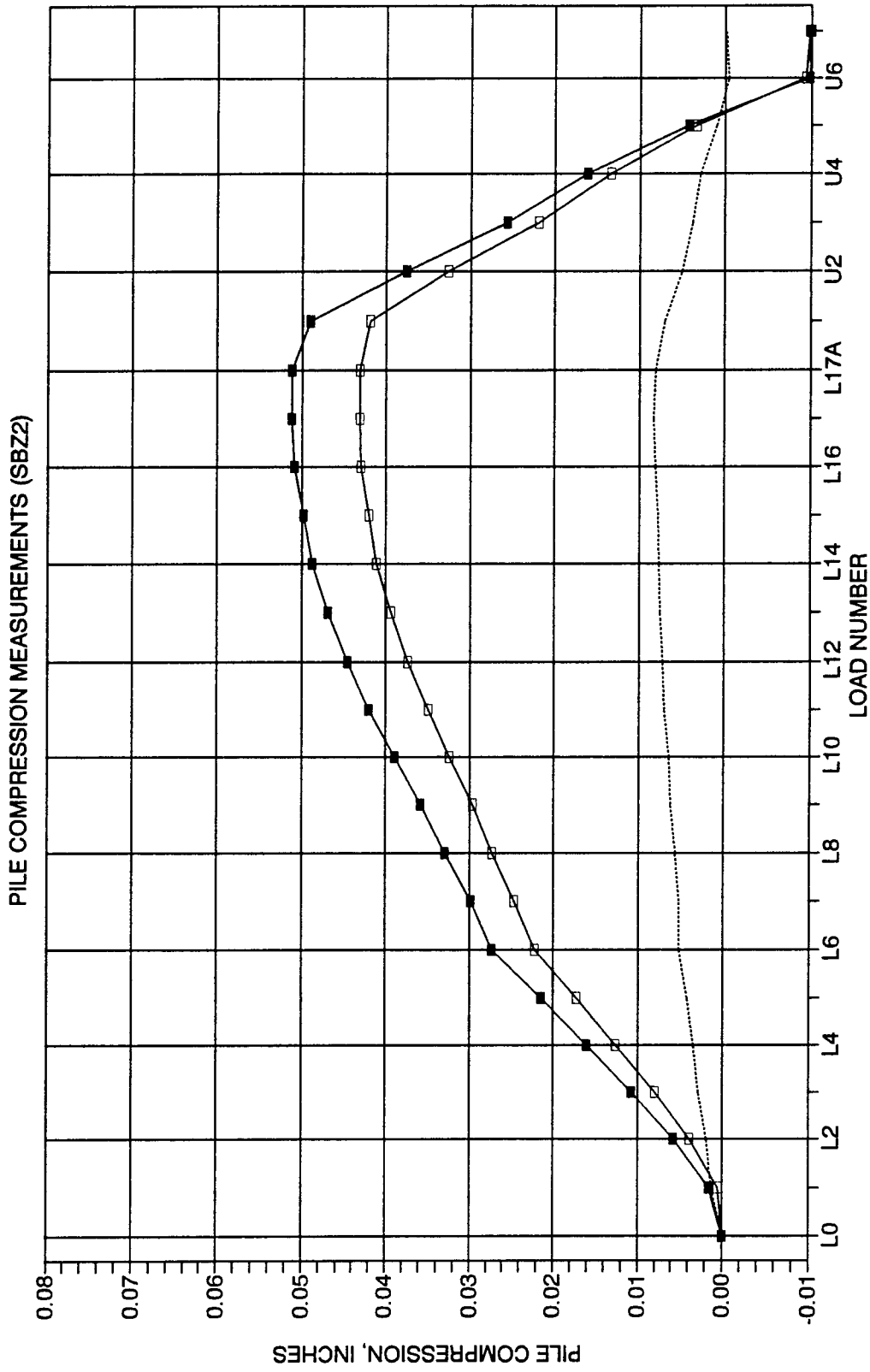

Figure F.155 Pile Compression Measurements: Seabreeze Load Test 2

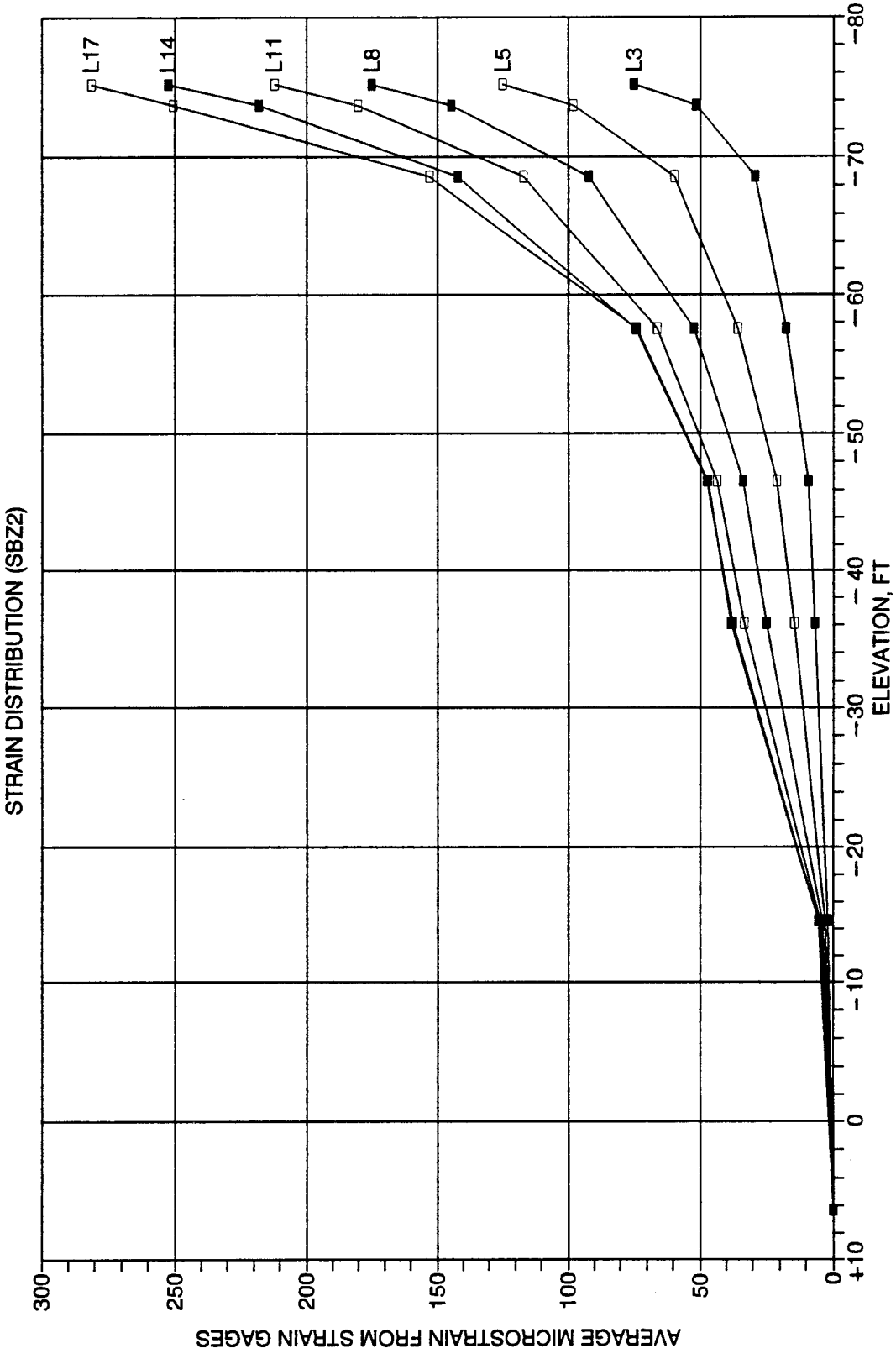

Figure F.156 Pile Strain Distribution: Seabreeze Load Test 2

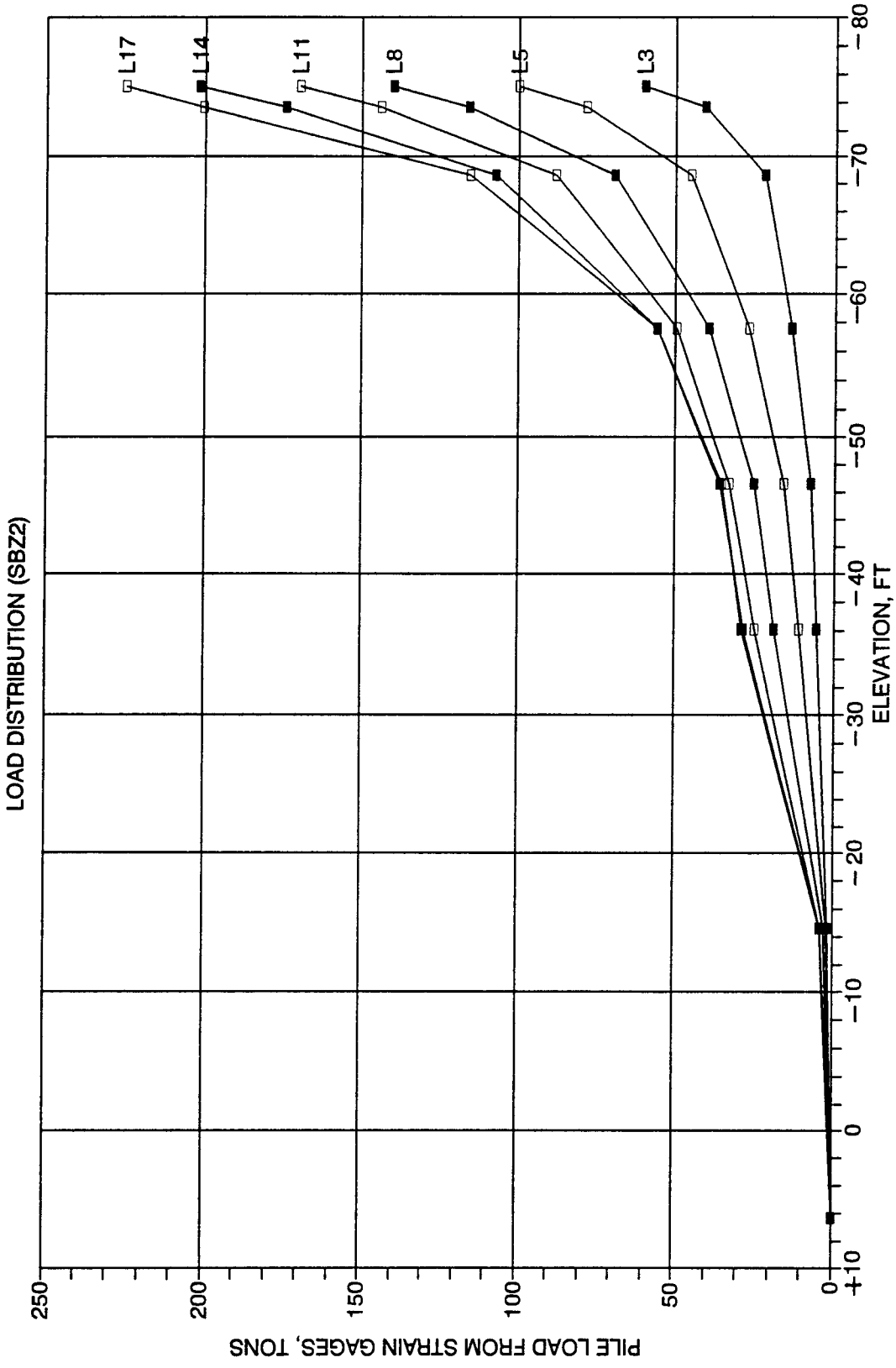

Figure F.157 Pile Load Distribution: Seabreeze Load Test 2

Table F.30 Strain Analyses: Seabreeze Load Test 3

VIBRATING WIRE INSTRUMENT READINGS - STRAIN

SBZ 3 LOAD NUMBER	TIME	VW STRN FREQ^2 KHZ^2 29	VW STRN FREQ^2 KHZ^2 30	VW STRN FREQ^2 KHZ^2 5	VW STRN FREQ^2 KHZ^2 6	VW STRN FREQ^2 KHZ^2 37	VW STRN FREQ^2 KHZ^2 38	VW STRN FREQ^2 KHZ^2 23	VW STRN FREQ^2 KHZ^2 24	VW STRN FREQ^2 KHZ^2 25	VW STRN FREQ KHZ^2 26	VW STRN FREQ KHZ^2 27	VW STRN FREQ KHZ^2 28
L0	13:21:23	0.65285	0.77615	0.65748	0.61599	0.70257	0.65914	0.72384	0.64360	0.68573	0.74116	0.87033	0.80246
L0	13:25:42	0.65287	0.77617	0.65806	0.61601	0.70260	0.65918	0.72383	0.64360	0.68573	0.74117	0.87035	0.80246
L0	13:40:42	0.65290	0.77639	0.65808	0.61606	0.70272	0.65930	0.72387	0.64364	0.68576	0.74120	0.87037	0.80248
L0	13:48:30	0.65292	0.77641	0.65809	0.61608	0.70277	0.65934	0.72389	0.64370	0.68578	0.74158	0.87129	0.80349
L0	13:56:23	0.65304	0.77651	0.65828	0.61625	0.70322	0.65970	0.72429	0.64419	0.68664	0.74214	0.87212	0.80424
L0	14:10:08	0.65305	0.77651	0.65834	0.61629	0.70328	0.65974	0.72430	0.64424	0.68671	0.74215	0.87196	0.80430
L1	14:12:19	0.65286	0.77619	0.65700	0.61587	0.70267	0.65891	0.72283	0.64277	0.68409	0.73966	0.86742	0.79967
L1	14:12:48	0.65287	0.77618	0.65702	0.61587	0.70266	0.65889	0.72285	0.64276	0.68408	0.73966	0.86740	0.79964
L1	14:13:48	0.65285	0.77617	0.65700	0.61589	0.70260	0.65888	0.72286	0.64275	0.68407	0.73963	0.86735	0.79961
L1	14:15:48	0.65287	0.77620	0.65697	0.61585	0.70264	0.65887	0.72280	0.64273	0.68406	0.73963	0.86731	0.79956
L2	14:18:01	0.65256	0.77579	0.65602	0.61457	0.70115	0.65724	0.71981	0.63980	0.67859	0.73496	0.86064	0.79084
L2	14:18:30	0.65255	0.77578	0.65596	0.61457	0.70118	0.65721	0.71980	0.63978	0.67855	0.73495	0.86064	0.79077
L2	14:19:30	0.65253	0.77579	0.65591	0.61457	0.70102	0.65717	0.71991	0.63975	0.67849	0.73489	0.86052	0.79061
L2	14:21:31	0.65254	0.77579	0.65578	0.61455	0.70086	0.65712	0.71989	0.63966	0.67844	0.73484	0.86041	0.79051
L3	14:23:18	0.65217	0.77571	0.65505	0.61301	0.69923	0.65512	0.71617	0.63630	0.67195	0.72919	0.85293	0.78145
L3	14:23:48	0.65217	0.77571	0.65505	0.61298	0.69916	0.65512	0.71623	0.63626	0.67189	0.72912	0.85288	0.78143
L3	14:24:48	0.65216	0.77570	0.65502	0.61293	0.69905	0.65510	0.71625	0.63621	0.67182	0.72906	0.85278	0.78139
L3	14:26:47	0.65216	0.77571	0.65495	0.61286	0.69893	0.65496	0.71624	0.63611	0.67166	0.72896	0.85261	0.78112
L4	14:28:36	0.65196	0.77554	0.65339	0.61139	0.69719	0.65301	0.71250	0.63244	0.66499	0.72287	0.84487	0.77201
L4	14:29:19	0.65194	0.77554	0.65332	0.61136	0.69707	0.65291	0.71241	0.63237	0.66490	0.72280	0.84480	0.77196
L4	14:30:09	0.65193	0.77554	0.65327	0.61130	0.69697	0.65287	0.71231	0.63231	0.66479	0.72279	0.84471	0.77188
L4	14:32:07	0.65191	0.77553	0.65319	0.61122	0.69679	0.65288	0.71215	0.63220	0.66459	0.72284	0.84454	0.77169
L5	14:33:50	0.65162	0.77543	0.65191	0.61018	0.69513	0.65119	0.70872	0.62864	0.65785	0.71666	0.83669	0.76281
L5	14:34:21	0.65162	0.77542	0.65182	0.61012	0.69505	0.65106	0.70849	0.62860	0.65776	0.71657	0.83657	0.76264
L5	14:35:20	0.65160	0.77542	0.65170	0.61007	0.69573	0.65092	0.70837	0.62856	0.65771	0.71646	0.83652	0.76250
L5	14:37:20	0.65159	0.77542	0.65152	0.61000	0.69556	0.65084	0.70834	0.62847	0.65749	0.71632	0.83639	0.76229
L6	14:39:12	0.65136	0.77529	0.65050	0.60836	0.69407	0.64922	0.70482	0.62490	0.65060	0.71004	0.82827	0.75368
L6	14:39:42	0.65134	0.77530	0.65042	0.60831	0.69400	0.64914	0.70478	0.62487	0.65056	0.71002	0.82826	0.75365
L6	14:40:43	0.65133	0.77529	0.65029	0.60826	0.69394	0.64905	0.70475	0.62482	0.65047	0.71006	0.82816	0.75317
L6	14:42:42	0.65132	0.77528	0.64996	0.60826	0.69375	0.64879	0.70461	0.62465	0.65030	0.71005	0.82804	0.75296
L7	14:44:39	0.65106	0.77501	0.64876	0.60681	0.69175	0.64700	0.70077	0.62083	0.64336	0.70357	0.81965	0.74423
L7	14:45:09	0.65105	0.77499	0.64869	0.60674	0.69165	0.64691	0.70074	0.62080	0.64335	0.70366	0.81961	0.74419
L7	14:46:10	0.65103	0.77498	0.64860	0.60668	0.69143	0.64672	0.70071	0.62076	0.64328	0.70352	0.81955	0.74407
L7	14:48:12	0.65099	0.77498	0.64858	0.60648	0.69109	0.64647	0.70054	0.62060	0.64297	0.70333	0.81930	0.74389
L8	14:50:01	0.65083	0.77466	0.64714	0.60510	0.68950	0.64421	0.69647	0.61671	0.63595	0.69680	0.81099	0.73494
L8	14:50:31	0.65083	0.77466	0.64700	0.60484	0.68923	0.64406	0.69639	0.61658	0.63594	0.69675	0.81101	0.73488
L8	14:51:31	0.65083	0.77466	0.64681	0.60466	0.68892	0.64378	0.69629	0.61650	0.63587	0.69668	0.81068	0.73484
L8	14:53:31	0.65083	0.77464	0.64644	0.60446	0.68855	0.64351	0.69617	0.61635	0.63563	0.69654	0.81035	0.73447
L9	14:55:10	0.65074	0.77463	0.64601	0.60368	0.68808	0.64254	0.69450	0.61463	0.63289	0.69404	0.80708	0.73108
L9	14:55:44	0.65073	0.77462	0.64592	0.60357	0.68799	0.64240	0.69443	0.61454	0.63276	0.69408	0.80707	0.73108
L9	14:56:38	0.65072	0.77461	0.64581	0.60351	0.68776	0.64226	0.69438	0.61453	0.63276	0.69406	0.80698	0.73100
L9	14:58:41	0.65070	0.77460	0.64561	0.60396	0.68751	0.64204	0.69430	0.61447	0.63278	0.69408	0.80662	0.73094
L10	15:00:12	0.65057	0.77454	0.64481	0.60341	0.68660	0.64126	0.69266	0.61298	0.62991	0.69161	0.80342	0.72765

Table F.30 continued

VIBRATING WIRE INSTRUMENT READINGS - STRAIN

SBZ 3 LOAD NUMBER	TIME	VW STRN FREQ^2 KHZ^2 29	VW STRN FREQ^2 KHZ^2 30	VW STRN FREQ^2 KHZ^2 5	VW STRN FREQ^2 KHZ^2 6	VW STRN FREQ^2 KHZ^2 37	VW STRN FREQ^2 KHZ^2 38	VW STRN FREQ^2 KHZ^2 23	VW STRN FREQ^2 KHZ^2 24	VW STRN FREQ^2 KHZ^2 25	VW STRN FREQ KHZ^2 26	VW STRN FREQ KHZ^2 27	VW STRN FREQ KHZ^2 28
L10	15:00:43	0.65058	0.77452	0.64477	0.60313	0.68658	0.64124	0.69272	0.61298	0.62987	0.69159	0.80353	0.72764
L10	15:01:43	0.65058	0.77451	0.64473	0.60282	0.68655	0.64120	0.69271	0.61303	0.62995	0.69164	0.80351	0.72767
L10	15:03:43	0.65055	0.77447	0.64465	0.60268	0.68643	0.64111	0.69274	0.61305	0.62990	0.69163	0.80331	0.72748
L11	15:05:23	0.65047	0.77428	0.64428	0.60209	0.68585	0.64038	0.69130	0.61169	0.62726	0.68921	0.80010	0.72414
L11	15:05:52	0.65044	0.77426	0.64423	0.60204	0.68586	0.64041	0.69135	0.61180	0.62729	0.68924	0.80018	0.72410
L11	15:06:53	0.65046	0.77422	0.64416	0.60201	0.68588	0.64043	0.69146	0.61191	0.62738	0.68935	0.79996	0.72404
L11	15:08:53	0.65045	0.77419	0.64402	0.60199	0.68589	0.64048	0.69149	0.61210	0.62756	0.68953	0.79982	0.72402
L12	15:10:39	0.65039	0.77409	0.64345	0.60154	0.68548	0.64001	0.69053	0.61100	0.62510	0.68745	0.79632	0.72028
L12	15:11:10	0.65038	0.77410	0.64344	0.60156	0.68588	0.63999	0.69056	0.61104	0.62516	0.68750	0.79628	0.72036
L12	15:12:09	0.65039	0.77412	0.64340	0.60153	0.68550	0.64005	0.69070	0.61126	0.62533	0.68759	0.79619	0.72012
L12	15:14:09	0.65037	0.77411	0.64344	0.60152	0.68547	0.64008	0.69081	0.61153	0.62568	0.68772	0.79594	0.71999
L13	15:16:09	0.65022	0.77406	0.64338	0.60214	0.68538	0.63978	0.68989	0.61050	0.62410	0.68651	0.79283	0.71712
L13	15:16:41	0.65019	0.77406	0.64333	0.60216	0.68520	0.63983	0.68979	0.61085	0.62439	0.68709	0.79284	0.71759
L13	15:17:39	0.65017	0.77406	0.64325	0.60210	0.68514	0.63974	0.68985	0.61094	0.62475	0.68762	0.79268	0.71789
L13	15:19:39	0.65013	0.77406	0.64295	0.60152	0.68482	0.63958	0.68951	0.61153	0.62520	0.68939	0.79328	0.71813
U1	15:24:26	0.65007	0.77406	0.64284	0.60188	0.68479	0.63962	0.69092	0.61309	0.62791	0.69293	0.79862	0.72294
U2	15:28:38	0.65166	0.77562	0.64812	0.60621	0.69194	0.64707	0.70289	0.62517	0.64581	0.71054	0.82280	0.74536
U3	15:32:31	0.65253	0.77583	0.65236	0.61054	0.69670	0.65235	0.71176	0.63407	0.65994	0.72386	0.83895	0.76350
U4	15:36:53	0.65306	0.77652	0.65527	0.61382	0.70048	0.65659	0.71966	0.64155	0.67341	0.73546	0.85354	0.78053
U5	15:40:32	0.65348	0.77690	0.65693	0.61602	0.70312	0.65985	0.72780	0.64948	0.69206	0.74983	0.87126	0.80293
U5A	15:43:33	0.65349	0.77687	0.65735	0.61611	0.70328	0.66003	0.72842	0.64953	0.69214	0.74980	0.87135	0.80307
U5A	15:47:18	0.65350	0.77688	0.65775	0.61618	0.70346	0.66013	0.72849	0.64955	0.69214	0.74979	0.87135	0.80310
U5A	16:02:18	0.65347	0.77687	0.65820	0.61631	0.70389	0.66046	0.72865	0.64957	0.69213	0.74967	0.87149	0.80318
U5A	16:17:18	0.65350	0.77691	0.65828	0.61637	0.70406	0.66027	0.72871	0.64956	0.69207	0.74951	0.87149	0.80312
U5A	16:32:18	0.65355	0.77694	0.65843	0.61647	0.70418	0.66044	0.72877	0.64952	0.69204	0.74941	0.87149	0.80307
U5A	16:47:18	0.65357	0.77696	0.65852	0.61653	0.70421	0.66061	0.72882	0.64950	0.69202	0.74934	0.87149	0.80310
U5A	17:02:18	0.65360	0.77699	0.65861	0.61656	0.70387	0.66069	0.72883	0.64950	0.69199	0.74927	0.87148	0.80308
U5A	17:17:18	0.65360	0.77699	0.65864	0.61658	0.70373	0.66073	0.72883	0.64947	0.69194	0.74916	0.87143	0.80298
U5A	17:32:18	0.65364	0.77702	0.65868	0.61660	0.70372	0.66079	0.72884	0.64946	0.69194	0.74913	0.87143	0.80300
U5A	17:47:18	0.65363	0.77701	0.65868	0.61660	0.70373	0.66079	0.72884	0.64947	0.69188	0.74903	0.87140	0.80293
U5A	18:02:18	0.65354	0.77694	0.65864	0.61659	0.70373	0.66077	0.72882	0.64942	0.69187	0.74898	0.87138	0.80297
U5A	18:09:55	0.65354	0.77701	0.65863	0.61657	0.70373	0.66077	0.72880	0.64941	0.69184	0.74893	0.87137	0.80294

Table F.30 continued

VIBRATING WIRE INSTRUMENT READINGS - TEMPERATURE

SBZ 3 LOAD NUMBER	TIME	VW STRN TEMP DEG C 29	VW STRN TEMP DEG C 30	VW STRN TEMP DEG C 5	VW STRN TEMP DEG C 6	VW STRN TEMP DEG C 37	VW STRN TEMP DEG C 38	VW STRN TEMP DEG C 23	VW STRN TEMP DEG C 24	VW STRN TEMP DEG C 25	VW STRN TEMP DEG C 26	VW STRN TEMP DEG C 27	VW STRN TEMP DEG C 28
L0	13:21:23	24.459	24.524	24.136	24.394	24.362	24.394	24.071	24.007	23.911	23.975	23.368	23.687
L0	13:25:42	24.460	24.493	24.105	24.363	24.395	24.395	24.072	24.008	23.944	23.976	23.369	23.656
L0	13:40:42	24.495	24.495	24.139	24.398	24.268	24.333	24.043	24.010	23.946	23.946	23.371	23.690
L0	13:48:30	24.493	24.493	24.138	24.364	24.267	24.364	24.041	23.977	23.944	23.977	23.370	23.656
L0	13:56:23	24.523	24.523	24.102	24.393	24.393	24.393	24.005	24.005	23.973	23.973	23.334	23.684
L0	14:10:08	24.519	24.519	24.099	24.357	24.260	24.389	24.002	24.034	23.970	23.970	23.332	23.682
L1	14:12:19	24.486	24.519	24.098	24.389	24.357	24.389	24.034	24.034	23.938	23.970	23.363	23.681
L1	14:12:48	24.519	24.519	24.098	24.389	24.389	24.389	24.002	24.034	23.970	23.970	23.331	23.681
L1	14:13:48	24.519	24.519	24.131	24.389	24.227	24.389	24.034	24.034	23.938	23.970	23.363	23.681
L1	14:15:48	24.519	24.486	24.130	24.389	24.227	24.389	24.034	24.034	23.937	23.969	23.363	23.713
L2	14:18:01	24.518	24.486	24.130	24.389	24.259	24.356	24.034	24.034	23.969	23.937	23.394	23.713
L2	14:18:30	24.518	24.518	24.130	24.356	24.389	24.389	24.034	24.001	23.969	23.969	23.363	23.681
L2	14:19:30	24.518	24.518	24.130	24.389	24.389	24.356	24.034	24.034	23.969	23.937	23.394	23.681
L2	14:21:31	24.486	24.518	24.130	24.389	24.227	24.389	24.033	24.033	23.937	23.969	23.394	23.713
L3	14:23:18	24.518	24.518	24.130	24.356	24.259	24.388	24.033	24.001	23.969	23.969	23.394	23.681
L3	14:23:48	24.518	24.518	24.130	24.388	24.227	24.356	24.033	24.033	23.937	23.969	23.394	23.713
L3	14:24:48	24.518	24.518	24.098	24.388	24.388	24.388	24.001	24.033	23.969	23.969	23.362	23.713
L3	14:26:47	24.518	24.518	24.130	24.388	24.388	24.388	24.001	24.033	23.937	23.969	23.362	23.712
L4	14:28:36	24.518	24.518	24.162	24.388	24.227	24.388	24.033	24.033	23.937	23.969	23.394	23.712
L4	14:29:19	24.518	24.518	24.130	24.388	24.388	24.388	24.001	24.033	23.969	23.969	23.362	23.712
L4	14:30:09	24.518	24.485	24.130	24.388	24.388	24.356	24.033	24.033	23.969	23.937	23.394	23.712
L4	14:32:07	24.485	24.518	24.130	24.388	24.259	24.388	24.001	24.033	23.969	23.969	23.362	23.712
L5	14:33:50	24.518	24.518	24.097	24.356	24.259	24.388	24.001	24.001	23.969	23.969	23.394	23.680
L5	14:34:21	24.518	24.518	24.162	24.356	24.388	24.388	24.033	24.001	23.969	23.969	23.394	23.678
L5	14:35:20	24.515	24.515	24.127	24.386	24.386	24.386	23.999	24.031	23.966	23.966	23.360	23.710
L5	14:37:20	24.515	24.515	24.127	24.386	24.256	24.386	23.999	24.031	23.966	23.966	23.360	23.710
L6	14:39:12	24.516	24.516	24.128	24.386	24.257	24.386	23.999	24.031	23.967	23.967	23.360	23.710
L6	14:39:42	24.516	24.516	24.160	24.354	24.386	24.386	24.031	23.999	23.967	23.967	23.392	23.679
L6	14:40:43	24.484	24.516	24.160	24.387	24.225	24.354	24.031	24.031	23.935	23.967	23.392	23.711
L6	14:42:42	24.516	24.516	24.160	24.387	24.387	24.354	24.031	24.031	23.967	23.935	23.392	23.711
L7	14:44:39	24.516	24.516	24.128	24.387	24.387	24.387	23.999	24.032	23.967	23.967	23.361	23.711
L7	14:45:09	24.516	24.516	24.160	24.354	24.387	24.387	24.032	23.999	23.967	23.967	23.392	23.679
L7	14:46:10	24.516	24.516	24.128	24.387	24.387	24.354	24.032	24.032	23.967	23.933	23.390	23.709
L7	14:48:12	24.514	24.514	24.158	24.385	24.352	24.385	24.030	24.030	23.933	23.965	23.390	23.709
L8	14:50:01	24.515	24.483	24.159	24.385	24.385	24.353	24.030	24.030	23.966	23.934	23.391	23.710
L8	14:50:31	24.515	24.515	24.159	24.385	24.256	24.385	23.998	24.030	23.966	23.966	23.359	23.710
L8	14:51:31	24.483	24.515	24.159	24.385	24.353	24.385	24.030	24.030	23.934	23.966	23.391	23.710
L8	14:53:31	24.481	24.513	24.125	24.384	24.351	24.384	24.029	24.029	23.932	23.964	23.389	23.708
L9	14:55:10	24.481	24.481	24.157	24.350	24.382	24.382	24.027	23.995	23.963	23.963	23.388	23.675
L9	14:55:44	24.512	24.512	24.124	24.382	24.382	24.382	23.995	24.027	23.963	23.963	23.356	23.707
L9	14:56:38	24.512	24.512	24.156	24.350	24.382	24.382	24.059	23.995	23.963	23.963	23.388	23.675
L9	14:58:41	24.511	24.478	24.155	24.381	24.381	24.349	24.026	24.026	23.962	23.930	23.387	23.706
L10	15:00:12	24.511	24.511	24.155	24.381	24.349	24.381	24.026	24.026	23.962	23.962	23.387	23.706

Table F.30 continued

VIBRATING WIRE INSTRUMENT READINGS - TEMPERATURE

SBZ 3 LOAD NUMBER	TIME	VW STRN TEMP DEG C 29	VW STRN TEMP DEG C 30	VW STRN TEMP DEG C 5	VW STRN TEMP DEG C 6	VW STRN TEMP DEG C 37	VW STRN TEMP DEG C 38	VW STRN TEMP DEG C 23	VW STRN TEMP DEG C 24	VW STRN TEMP DEG C 25	VW STRN TEMP DEG C 26	VW STRN TEMP DEG C 27	VW STRN TEMP DEG C 28
L10	15:00:43	24.478	24.511	24.155	24.381	24.349	24.381	24.026	24.026	23.930	23.962	23.387	23.706
L10	15:01:43	24.510	24.510	24.122	24.380	24.380	24.380	24.025	24.025	23.961	23.961	23.354	23.705
L10	15:03:43	24.510	24.510	24.122	24.380	24.380	24.380	24.025	24.025	23.961	23.961	23.354	23.704
L11	15:05:23	24.477	24.509	24.153	24.379	24.218	24.379	24.057	24.024	23.928	23.960	23.385	23.704
L11	15:05:52	24.509	24.509	24.121	24.379	24.250	24.379	24.024	24.024	23.960	23.960	23.354	23.704
L11	15:06:53	24.509	24.509	24.153	24.347	24.379	24.379	24.056	23.992	23.960	23.960	23.385	23.671
L11	15:08:53	24.509	24.509	24.153	24.347	24.379	24.379	24.056	23.992	23.960	23.960	23.385	23.671
L12	15:10:39	24.508	24.508	24.120	24.378	24.378	24.378	24.023	24.023	23.959	23.959	23.353	23.703
L12	15:11:10	24.508	24.508	24.152	24.346	24.249	24.378	24.056	23.991	23.959	23.959	23.384	23.671
L12	15:12:09	24.508	24.476	24.152	24.378	24.378	24.346	24.056	24.056	23.959	23.927	23.384	23.703
L12	15:14:09	24.510	24.478	24.154	24.380	24.380	24.348	24.057	24.025	23.961	23.929	23.386	23.705
L13	15:16:09	24.509	24.477	24.153	24.380	24.250	24.347	24.057	24.025	23.960	23.928	23.385	23.704
L13	15:16:41	24.509	24.477	24.153	24.380	24.250	24.347	24.057	24.025	23.960	23.928	23.385	23.704
L13	15:17:39	24.477	24.477	24.153	24.380	24.347	24.380	24.057	24.025	23.928	23.960	23.385	23.704
L13	15:19:39	24.476	24.509	24.153	24.379	24.217	24.379	24.056	24.024	23.928	23.960	23.385	23.703
U1	15:24:26	24.508	24.508	24.152	24.378	24.378	24.346	24.055	24.023	23.959	23.927	23.384	23.703
U2	15:28:38	24.508	24.475	24.152	24.345	24.248	24.378	24.055	23.991	23.959	23.959	23.384	23.670
U3	15:32:31	24.507	24.507	24.119	24.378	24.248	24.378	24.023	24.023	23.958	23.958	23.352	23.702
U4	15:36:53	24.507	24.507	24.151	24.345	24.377	24.345	24.054	23.990	23.958	23.958	23.383	23.670
U5	15:40:32	24.507	24.507	24.119	24.377	24.377	24.377	24.022	24.022	23.958	23.958	23.351	23.702
U5A	15:43:33	24.507	24.507	24.151	24.345	24.377	24.377	24.054	23.990	23.958	23.958	23.383	23.670
U5A	15:47:18	24.507	24.507	24.151	24.344	24.377	24.344	24.054	24.022	23.958	23.958	23.383	23.669
U5A	16:02:18	24.514	24.481	24.158	24.384	24.384	24.352	24.061	24.029	23.965	23.933	23.390	23.709
U5A	16:17:18	24.484	24.484	24.096	24.354	24.387	24.354	24.064	24.000	23.967	23.967	23.361	23.679
U5A	16:32:18	24.489	24.489	24.133	24.391	24.391	24.359	24.069	24.004	23.940	23.940	23.365	23.684
U5A	16:47:18	24.494	24.494	24.138	24.364	24.267	24.397	24.074	23.977	23.945	23.977	23.370	23.657
U5A	17:02:18	24.495	24.463	24.140	24.398	24.236	24.366	24.075	24.011	23.946	23.914	23.372	23.690
U5A	17:17:18	24.468	24.500	24.144	24.370	24.241	24.403	24.080	23.983	23.951	23.951	23.376	23.631
U5A	17:32:18	24.513	24.480	24.157	24.415	24.253	24.383	24.124	24.028	23.931	23.931	23.388	23.675
U5A	17:47:18	24.517	24.517	24.161	24.387	24.258	24.419	24.128	24.000	23.935	23.967	23.392	23.647
U5A	18:02:18	24.518	24.486	24.130	24.421	24.259	24.388	24.098	24.001	23.937	23.937	23.393	23.680
U5A	18:09:55	24.453	24.518	24.130	24.421	24.227	24.421	24.098	24.001	23.905	23.969	23.394	23.681

Table F.30 continued

VIBRATING WIRE CALCULATED STRAIN

SBZ 3 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 29	VW STRN MICRO STRAIN 30	VW STRN MICRO STRAIN 5	VW STRN MICRO STRAIN 6	VW STRN MICRO STRAIN 37	VW STRN MICRO STRAIN 38	VW STRN MICRO STRAIN 23	VW STRN MICRO STRAIN 24	VW STRN MICRO STRAIN 25	VW STRN MICRO STRAIN 26	VW STRN MICRO STRAIN 27	VW STRN MICRO STRAIN 28
L0	13:21:23	0.7	1.2	2.8	0.9	2.2	2.0	1.4	2.1	3.3	3.3	5.3	6.1
L0	13:25:42	0.7	1.2	0.9	0.9	2.1	1.8	1.5	2.1	3.3	3.2	5.3	6.1
L0	13:40:42	0.5	0.4	0.8	0.7	1.8	1.5	1.4	2.0	3.2	3.2	5.2	6.0
L0	13:48:30	0.5	0.4	0.8	0.7	1.7	1.4	1.3	1.9	3.1	1.9	2.2	2.7
L0	13:56:23	0.0	-0.0	0.2	0.1	0.0	0.1	0.0	0.2	0.2	0.0	-0.5	0.2
L0	14:10:08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
L1	14:12:19	0.7	1.1	4.4	1.3	1.9	2.7	4.8	4.9	8.7	8.2	15.0	15.3
L1	14:12:48	0.6	1.1	4.4	1.3	1.9	2.8	4.8	4.9	8.7	8.2	15.1	15.4
L1	14:13:48	0.7	1.1	4.4	1.3	2.3	2.8	4.7	4.9	8.8	8.3	15.2	15.5
L1	14:15:48	0.6	1.1	4.5	1.4	2.2	2.9	4.9	5.0	8.8	8.3	15.3	15.6
L2	14:18:01	1.6	2.4	7.6	5.6	7.0	8.3	14.8	14.7	26.8	23.8	37.3	44.4
L2	14:18:30	1.7	2.4	7.8	5.7	6.8	8.4	14.8	14.8	27.0	23.8	37.4	44.7
L2	14:19:30	1.7	2.4	8.0	5.6	7.3	8.5	14.5	14.8	27.2	24.0	37.7	45.2
L2	14:21:31	1.7	2.4	8.4	5.7	8.0	8.7	14.5	15.1	27.4	24.2	38.1	45.5
L3	14:23:18	2.9	2.6	10.8	10.8	13.4	15.3	26.8	26.3	48.8	42.8	62.8	75.5
L3	14:23:48	2.9	2.6	10.8	10.9	13.7	15.3	26.6	26.4	49.0	43.1	63.0	75.5
L3	14:24:48	2.9	2.7	11.0	11.1	13.8	15.3	26.6	26.5	49.2	43.3	63.3	75.7
L3	14:26:47	2.9	2.6	11.2	11.3	14.2	15.8	26.6	26.9	49.8	43.6	63.9	76.5
L4	14:28:36	3.6	3.2	16.3	16.1	20.2	22.2	38.9	39.0	71.8	63.7	89.4	106.6
L4	14:29:19	3.7	3.2	16.5	16.2	20.4	22.6	39.3	39.2	72.1	63.9	89.7	106.8
L4	14:30:09	3.7	3.2	16.7	16.4	20.7	22.7	39.6	39.4	72.4	64.0	90.0	107.1
L4	14:32:07	3.8	3.2	17.0	16.7	21.4	22.7	40.1	39.8	73.1	63.8	90.6	107.7
L5	14:33:50	4.7	3.6	21.2	20.2	26.9	28.3	51.5	51.6	95.4	84.2	116.5	137.1
L5	14:34:21	4.7	3.6	21.5	20.4	27.0	28.7	52.2	51.7	95.7	84.5	116.8	137.6
L5	14:35:20	4.8	3.6	21.9	20.5	24.8	29.1	52.6	51.8	95.8	84.9	117.1	138.1
L5	14:37:20	4.8	3.6	22.5	20.7	25.5	29.4	52.7	52.1	96.5	85.3	117.5	138.8
L6	14:39:12	5.6	4.0	25.9	26.2	30.4	34.8	64.4	63.9	119.3	106.1	144.3	167.2
L6	14:39:42	5.7	4.0	26.1	26.4	30.5	35.0	64.5	64.0	119.4	106.2	144.3	167.4
L6	14:40:43	5.7	4.0	26.5	26.5	30.9	35.4	64.6	64.2	119.8	106.0	144.6	168.9
L6	14:42:42	5.7	4.1	27.6	26.5	31.3	36.2	65.0	64.7	120.3	106.1	145.0	169.6
L7	14:44:39	6.6	5.0	31.6	31.3	37.9	42.1	77.7	77.3	143.2	127.5	172.8	198.4
L7	14:45:09	6.6	5.0	31.8	31.6	38.3	42.4	77.8	77.5	143.3	127.2	172.9	198.6
L7	14:46:10	6.7	5.1	32.1	31.7	39.0	43.1	77.9	77.6	143.5	127.7	173.1	199.0
L7	14:48:12	6.8	5.1	32.2	32.4	40.2	43.8	78.5	78.1	144.6	128.3	173.9	199.6
L8	14:50:01	7.3	6.2	36.9	36.9	45.4	51.4	91.9	91.0	167.7	149.9	201.4	229.1
L8	14:50:31	7.3	6.1	37.4	37.8	46.4	51.8	92.2	91.4	167.7	150.0	201.3	229.3
L8	14:51:31	7.4	6.1	38.0	38.4	47.3	52.7	92.5	91.7	168.0	150.2	202.4	229.5
L8	14:53:31	7.4	6.2	39.3	39.1	48.5	53.6	92.9	92.2	168.8	150.7	203.5	230.7
L9	14:55:10	7.7	6.3	40.7	41.7	50.1	56.8	98.4	97.9	177.8	159.0	214.3	241.9
L9	14:55:44	7.7	6.3	41.0	42.0	50.4	57.3	98.7	98.1	178.3	158.8	214.4	241.9
L9	14:56:38	7.7	6.3	41.3	42.2	51.1	57.8	98.8	98.2	178.3	158.9	214.6	242.2
L9	14:58:41	7.8	6.4	42.0	40.7	51.9	58.5	99.1	98.4	178.2	158.9	215.8	242.4
L10	15:00:12	8.2	6.5	44.6	42.5	55.0	61.1	104.5	103.3	187.7	167.0	226.4	253.2

Table F.30 continued

VIBRATING WIRE CALCULATED STRAIN

SBZ 3 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 29	VW STRN MICRO STRAIN 30	VW STRN MICRO STRAIN 5	VW STRN MICRO STRAIN 6	VW STRN MICRO STRAIN 37	VW STRN MICRO STRAIN 38	VW STRN MICRO STRAIN 23	VW STRN MICRO STRAIN 24	VW STRN MICRO STRAIN 25	VW STRN MICRO STRAIN 26	VW STRN MICRO STRAIN 27	VW STRN MICRO STRAIN 28
L10	15:00:43	8.2	6.6	44.8	43.4	55.1	61.1	104.3	103.3	187.9	167.1	226.0	253.3
L10	15:01:43	8.2	6.6	44.9	44.5	55.1	61.3	104.3	103.1	187.5	166.9	226.1	253.2
L10	15:03:43	8.3	6.8	45.2	44.9	55.5	61.6	104.2	103.1	187.7	166.9	226.8	253.8
L11	15:05:23	8.6	7.4	46.4	46.9	57.6	64.0	109.0	107.6	196.5	174.9	237.4	264.8
L11	15:05:52	8.6	7.4	46.6	47.1	57.6	63.9	108.8	107.2	196.3	174.8	237.1	265.0
L11	15:06:53	8.6	7.6	46.8	47.2	57.3	63.8	108.4	106.9	196.0	174.5	237.8	265.2
L11	15:08:53	8.6	7.7	47.2	47.3	57.3	63.6	108.3	106.2	195.4	173.9	238.3	265.3
L12	15:10:39	8.8	8.0	49.2	48.7	58.7	65.2	111.5	109.8	203.6	180.7	249.9	277.6
L12	15:11:10	8.8	8.0	49.2	48.7	57.5	65.3	111.4	109.7	203.4	180.6	250.0	277.4
L12	15:12:09	8.8	8.0	49.3	48.7	58.6	65.1	110.9	108.9	202.8	180.3	250.3	278.1
L12	15:14:09	8.9	8.0	49.2	48.8	58.7	65.0	110.6	108.1	201.7	179.9	251.1	278.5
L13	15:16:09	9.4	8.1	49.4	46.7	59.2	66.0	113.6	111.5	206.9	183.9	261.4	288.0
L13	15:16:41	9.5	8.1	49.5	46.7	59.7	65.8	113.9	110.3	205.9	182.0	261.3	286.5
L13	15:17:39	9.6	8.1	49.8	46.9	59.8	66.1	113.8	110.0	204.8	180.2	261.9	285.5
L13	15:19:39	9.7	8.1	50.8	48.8	61.0	66.6	114.9	108.1	203.3	174.3	259.9	284.7
U1	15:24:26	9.9	8.1	51.1	47.6	60.9	66.5	110.2	102.9	194.3	162.7	242.2	268.8
U2	15:28:38	4.6	3.0	33.7	33.3	37.5	41.9	70.7	63.1	135.1	104.5	162.4	194.8
U3	15:32:31	1.7	2.3	19.7	19.0	21.8	24.4	41.4	33.6	88.5	60.4	109.0	134.8
U4	15:36:53	-0.0	-0.0	10.1	8.2	9.1	10.5	15.3	8.9	44.0	22.1	60.8	78.6
U5	15:40:32	-1.4	-1.3	4.6	0.9	0.4	-0.3	-11.6	-17.3	-17.7	-25.4	2.3	4.5
U5A	15:43:33	-1.4	-1.2	3.2	0.6	-0.2	-0.9	-13.7	-17.4	-17.9	-25.3	1.9	4.1
U5A	15:47:18	-1.5	-1.2	1.9	0.4	-0.7	-1.2	-13.9	-17.5	-17.9	-25.2	1.9	4.0
U5A	16:02:18	-1.4	-1.1	0.4	-0.1	-2.2	-2.3	-14.4	-17.6	-17.9	-24.8	1.5	3.7
U5A	16:17:18	-1.4	-1.3	0.2	-0.3	-2.7	-1.7	-14.7	-17.5	-17.7	-24.3	1.5	3.9
U5A	16:32:18	-1.6	-1.4	-0.3	-0.6	-3.1	-2.3	-14.9	-17.4	-17.6	-23.9	1.5	4.1
U5A	16:47:18	-1.7	-1.5	-0.6	-0.8	-3.1	-2.9	-15.0	-17.3	-17.5	-23.8	1.5	4.0
U5A	17:02:18	-1.8	-1.5	-0.9	-0.9	-1.9	-3.1	-15.1	-17.3	-17.4	-23.5	1.5	4.0
U5A	17:17:18	-1.8	-1.6	-1.0	-1.0	-1.5	-3.3	-15.1	-17.2	-17.3	-23.1	1.7	4.4
U5A	17:32:18	-1.9	-1.6	-1.2	-1.1	-1.4	-3.5	-15.2	-17.2	-17.2	-23.0	1.7	4.3
U5A	17:47:18	-1.9	-1.6	-1.2	-1.1	-1.5	-3.5	-15.2	-17.2	-17.0	-22.7	1.8	4.6
U5A	18:02:18	-1.6	-1.4	-1.0	-1.1	-1.5	-3.4	-15.1	-17.1	-17.0	-22.5	1.8	4.4

Table F.30 continued

VIBRATING WIRE CALCULATED STRAIN (4 MINUTE READINGS)

SBZ 3 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 29	VW STRN MICRO STRAIN 30	VW STRN MICRO STRAIN 5	VW STRN MICRO STRAIN 6	VW STRN MICRO STRAIN 37	VW STRN MICRO STRAIN 38	VW STRN MICRO STRAIN 23	VW STRN MICRO STRAIN 24	VW STRN MICRO STRAIN 25	VW STRN MICRO STRAIN 26	VW STRN MICRO STRAIN 27	VW STRN MICRO STRAIN 28
L0	14:10:08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
L1	14:15:48	0.6	1.1	4.5	1.4	2.2	2.9	4.9	5.0	8.8	8.3	15.3	15.6
L2	14:21:31	1.7	2.4	8.4	5.7	8.0	8.7	14.5	15.1	27.4	24.2	38.1	45.5
L3	14:26:47	2.9	2.6	11.2	11.3	14.2	15.8	26.6	26.9	49.8	43.6	63.9	76.5
L4	14:32:07	3.8	3.2	17.0	16.7	21.4	22.7	40.1	39.8	73.1	63.8	90.6	107.7
L5	14:37:20	4.8	3.6	22.5	20.7	25.5	29.4	52.7	52.1	96.5	85.3	117.5	138.8
L6	14:42:42	5.7	4.1	27.6	26.5	31.3	36.2	65.0	64.7	120.3	106.1	145.0	169.6
L7	14:48:12	6.8	5.1	32.2	32.4	40.2	43.8	78.5	78.1	144.6	128.3	173.9	199.6
L8	14:53:31	7.4	6.2	39.3	39.1	48.5	53.6	92.9	92.2	168.8	150.7	203.5	230.7
L9	14:58:41	7.8	6.4	42.0	40.7	51.9	58.5	99.1	98.4	178.2	158.9	215.8	242.4
L10	15:03:43	8.3	6.8	45.2	44.9	55.5	61.6	104.2	103.1	187.7	166.9	226.8	253.8
L11	15:08:53	8.6	7.7	47.2	47.3	57.3	63.6	108.3	106.2	195.4	173.9	238.3	265.3
L12	15:14:09	8.9	8.0	49.2	48.8	58.7	65.0	110.6	108.1	201.7	179.9	251.1	278.5
L13	15:19:39	9.7	8.1	50.8	48.8	61.0	66.6	114.9	108.1	203.3	174.3	259.9	284.7
U1	15:24:26	9.9	8.1	51.1	47.6	60.9	66.5	110.2	102.9	194.3	162.7	242.2	268.8
U2	15:28:38	4.6	3.0	33.7	33.3	37.5	41.9	70.7	63.1	135.1	104.5	162.4	194.8
U3	15:32:31	1.7	2.3	19.7	19.0	21.8	24.4	41.4	33.6	88.5	60.4	109.0	134.8
U4	15:36:53	-0.0	-0.0	10.1	8.2	9.1	10.5	15.3	8.9	44.0	22.1	60.8	78.6
U5	15:40:32	-1.4	-1.3	4.6	0.9	0.4	-0.3	-11.6	-17.3	-17.7	-25.4	2.3	4.5
U5A	15:43:33	-1.4	-1.2	3.2	0.6	-0.2	-0.9	-13.7	-17.4	-17.9	-25.3	1.9	4.1

Table F.30 continued

AVERAGE STRAIN AT EACH GAGE LEVEL, INTEGRATED PILE COMPRESSION & COMPARISON WITH TELLTALE MEASUREMENT (4 MINUTE READINGS)

SBZ 3 LOAD NUMBER	AVG VW MICRO STRAIN SURFACE	AVG VW MICRO STRAIN 29+30	AVG VW MICRO STRAIN 5+6	AVG VW MICRO STRAIN 37+38	AVG VW MICRO STRAIN 23+24	AVG VW MICRO STRAIN 25+26	AVG VW MICRO STRAIN 27+28	EST'D. MICRO STRAIN CELL TOP	PILE COMPRESSION SG MSMT. INCHES	TT MSMT. INCHES	ABS.DIFF. SG-TT INCHES
L0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0000	0.0000	0.0000
L1	0.0	0.8	2.9	2.5	5.0	8.6	15.5	30.0	0.0035	0.0015	0.0020
L2	0.0	2.1	7.1	8.3	14.8	25.8	41.8	60.1	0.0096	0.0064	0.0032
L3	0.0	2.8	11.2	15.0	26.7	46.7	70.2	90.4	0.0164	0.0125	0.0039
L4	0.0	3.5	16.8	22.1	40.0	68.4	99.1	120.6	0.0238	0.0190	0.0048
L5	0.0	4.2	21.6	27.5	52.4	90.9	128.1	150.7	0.0308	0.0254	0.0054
L6	0.0	4.9	27.1	33.8	64.9	113.2	157.3	180.9	0.0380	0.0314	0.0066
L7	0.0	5.9	32.3	42.0	78.3	136.4	186.7	211.1	0.0457	0.0382	0.0076
L8	0.0	6.8	39.2	51.1	92.5	159.8	217.1	241.4	0.0540	0.0454	0.0087
L9	0.0	7.1	41.3	55.2	98.7	168.5	229.1	253.5	0.0573	0.0486	0.0087
L10	0.0	7.5	45.1	58.5	103.7	177.3	240.3	265.5	0.0606	0.0512	0.0094
L11	0.0	8.1	47.3	60.5	107.3	184.7	251.8	277.6	0.0632	0.0537	0.0095
L12	0.0	8.4	49.0	61.8	109.3	190.8	264.8	289.6	0.0652	0.0555	0.0098
L13	0.0	8.9	49.8	63.8	111.5	188.8	272.3	301.7	0.0662	0.0566	0.0096
U1	0.0	9.0	49.4	63.7	106.6	178.5	255.5	282.4	0.0637	0.0549	0.0088
U2	0.0	3.8	33.5	39.7	66.9	119.8	178.6	169.5	0.0413	0.0370	0.0043
U3	0.0	2.0	19.4	23.1	37.5	74.5	121.9	109.0	0.0250	0.0224	0.0026
U4	0.0	-0.0	9.1	9.8	12.1	33.0	69.7	58.8	0.0110	0.0099	0.0011
U5	0.0	-1.3	2.7	0.0	-14.4	-21.5	3.4	-0.3	-0.0037	-0.0030	-0.0006
U5A	0.0	-1.3	1.9	-0.5	-15.6	-21.6	3.0	-0.3	-0.0040	-0.0033	-0.0007

ELEV. FT	6.30	-14.63	-36.13	-46.63	-57.63	-68.63	-73.63	-75.13

Table F.30 continued

VIBRATING WIRE CALCULATED AVERAGE LOADS (4 MINUTE READINGS)

LA = 5.00 ft
LB = 1.50 ft
B = 18.00 in
ES = 27500.0 ksi

ACA = 317.115 si
ACB = 313.155 si
ASA = 3.538 si
ASB = 7.498 si

SBZ 3 LOAD NUMBER	AVG VW LOAD TONS SURFACE	AVG VW LOAD TONS 29+30	AVG VW LOAD TONS 5+6	AVG VW LOAD TONS 37+38	AVG VW LOAD TONS 23+24	AVG VW LOAD TONS 25+26	AVG VW LOAD TONS 27+28	OSTERBERG LOAD TONS BOTTOM	INCR. PILE MODULUS KSI	CALC. PILE A MODULUS KSI	CALC. PILE B MODULUS KSI
L0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0		4828.2	5107.8
L1	0.0	0.65	2.31	1.97	3.87	6.70	12.80	24.8	9888.4	4828.2	5107.8
L2	0.0	1.61	5.52	6.53	11.60	20.15	34.59	49.8	5854.3	4828.2	5107.8
L3	0.0	2.18	8.78	11.73	20.92	36.51	58.10	74.8	5435.4	4828.2	5107.8
L4	0.0	2.76	13.17	17.25	31.26	53.53	82.03	99.8	5338.1	4828.2	5107.8
L5	0.0	3.30	16.91	21.48	41.00	71.14	106.02	124.7	5308.5	4828.2	5107.8
L6	0.0	3.83	21.16	26.42	50.74	88.54	130.17	149.7	5286.6	4828.2	5107.8
L7	0.0	4.64	25.24	32.85	61.24	106.70	154.52	174.7	5241.1	4828.2	5107.8
L8	0.0	5.31	30.64	39.96	72.38	124.96	179.63	199.8	5100.5	4828.2	5107.8
L9	0.0	5.53	32.34	43.21	77.22	131.82	189.56	209.7	5130.9	4828.2	5107.8
L10	0.0	5.88	35.25	45.79	81.08	138.70	198.83	219.7	5485.7	4828.2	5107.8
L11	0.0	6.37	36.96	47.30	83.92	144.43	208.33	229.7	5395.6	4828.2	5107.8
L12	0.0	6.59	38.30	48.38	85.52	149.22	219.12	239.7	4699.3	4828.2	5107.8
L13	0.0	6.97	38.93	49.93	87.20	147.68	225.31	249.7	8249.4	4828.2	5107.8
U1	0.0	7.03	38.61	49.85	83.36	139.61	211.43	233.6		4828.2	5107.8
U2	0.0	2.97	26.21	31.04	52.30	93.71	147.75	140.3		4828.2	5107.8
U3	0.0	1.56	15.14	18.06	29.34	58.24	100.87	90.2		4828.2	5107.8
U4	0.0	-0.01	7.14	7.65	9.47	25.84	57.65	48.6		4828.2	5107.8
U5	0.0	-1.05	2.15	0.01	-11.30	-16.82	2.81	-0.3		4828.2	5107.8
U5A	0.0	-1.02	1.49	-0.43	-12.16	-16.89	2.49	-0.2		4828.2	5107.8
ELEV. FT	6.30	-14.63	-36.13	-46.63	-57.63	-68.63	-73.63	-75.13	4626.2 KSI = CONCRETE MODULUS		

Table F.30 continued

INTEGRATED MOVEMENT AT VW STRAIN GAGE (4 MINUTE READINGS)

SBZ 3 LOAD NUMBER	VW MOVEMENT INCHES SURFACE	VW MOVEMENT INCHES 29+30	VW MOVEMENT INCHES 5+6	VW MOVEMENT INCHES 37+38	VW MOVEMENT INCHES 23+24	VW MOVEMENT INCHES 25+26	VW MOVEMENT INCHES 27+28	VW MOVEMENT INCHES CELL TOP
L0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L1	-0.0020	-0.0019	-0.0014	-0.0011	-0.0006	0.0003	0.0010	0.0015
L2	-0.0032	-0.0030	-0.0018	-0.0008	0.0007	0.0034	0.0054	0.0064
L3	0.0061	0.0065	0.0083	0.0099	0.0127	0.0175	0.0211	0.0225
L4	0.0052	0.0056	0.0082	0.0107	0.0148	0.0219	0.0270	0.0290
L5	0.0146	0.0152	0.0185	0.0216	0.0269	0.0363	0.0429	0.0454
L6	0.0184	0.0190	0.0231	0.0270	0.0335	0.0452	0.0534	0.0564
L7	0.0274	0.0282	0.0331	0.0378	0.0457	0.0599	0.0696	0.0732
L8	0.0413	0.0422	0.0481	0.0538	0.0633	0.0799	0.0912	0.0954
L9	0.0463	0.0471	0.0534	0.0595	0.0696	0.0873	0.0992	0.1036
L10	0.0606	0.0615	0.0683	0.0748	0.0855	0.1041	0.1166	0.1212
L11	0.0755	0.0765	0.0837	0.0905	0.1015	0.1208	0.1339	0.1387
L12	0.1152	0.1163	0.1237	0.1307	0.1420	0.1618	0.1755	0.1805
L13	0.3104	0.3115	0.3191	0.3262	0.3378	0.3576	0.3714	0.3766
U1	0.4312	0.4323	0.4399	0.4470	0.4582	0.4770	0.4901	0.4949
U2	0.4407	0.4411	0.4460	0.4506	0.4576	0.4699	0.4789	0.4820
U3	0.4324	0.4326	0.4354	0.4380	0.4420	0.4494	0.4553	0.4574
U4	0.4239	0.4239	0.4250	0.4262	0.4277	0.4307	0.4337	0.4349
U5	0.3906	0.3904	0.3906	0.3908	0.3898	0.3875	0.3869	0.3870
U5A	0.3907	0.3906	0.3907	0.3907	0.3897	0.3872	0.3867	0.3867

Table F.30 continued

INTEGRATED MOVEMENT AT SEGMENT CL (4 MINUTE READINGS)

SBZ 3 LOAD NUMBER CL.ELEV.	AVG VW MOVEMENT INCHES -4.17	AVG VW MOVEMENT INCHES -25.38	AVG VW MOVEMENT INCHES -41.38	AVG VW MOVEMENT INCHES -52.13	AVG VW MOVEMENT INCHES -63.13	AVG VW MOVEMENT INCHES -71.13
L0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0007
L2	0.0000	0.0000	0.0000	0.0000	0.0021	0.0044
L3	0.0063	0.0074	0.0091	0.0113	0.0151	0.0193
L4	0.0054	0.0069	0.0095	0.0127	0.0184	0.0245
L5	0.0149	0.0168	0.0200	0.0242	0.0316	0.0396
L6	0.0187	0.0211	0.0251	0.0302	0.0394	0.0493
L7	0.0278	0.0306	0.0354	0.0417	0.0528	0.0647
L8	0.0417	0.0451	0.0509	0.0585	0.0716	0.0856
L9	0.0467	0.0503	0.0564	0.0646	0.0785	0.0932
L10	0.0610	0.0649	0.0716	0.0802	0.0948	0.1103
L11	0.0760	0.0801	0.0871	0.0960	0.1112	0.1273
L12	0.1158	0.1200	0.1272	0.1363	0.1519	0.1686
L13	0.3109	0.3153	0.3226	0.3320	0.3477	0.3645
U1	0.4318	0.4361	0.4434	0.4526	0.4676	0.4835
U2	0.4409	0.4435	0.4483	0.4541	0.4638	0.4744
U3	0.4325	0.4340	0.4367	0.4400	0.4457	0.4524
U4	0.4239	0.4245	0.4256	0.4270	0.4292	0.4322
U5	0.3905	0.3905	0.3907	0.3903	0.3887	0.3872
U5A	0.3907	0.3906	0.3907	0.3902	0.3885	0.3870

Table F.30 continued

AVERAGE SEGMENT SHEAR STRESS (4 MINUTE READINGS)

SBZ 3 LOAD NUMBER CL.ELEV.	AVG VW SHEAR TSF -4.17	AVG VW SHEAR TSF -25.38	AVG VW SHEAR TSF -41.38	AVG VW SHEAR TSF -52.13	AVG VW SHEAR TSF -63.13	AVG VW SHEAR TSF -71.13
L0	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016
L1	-0.011	-0.004	-0.022	0.012	0.026	0.187
L2	-0.004	0.014	-0.000	0.060	0.113	0.465
L3	0.001	0.035	0.030	0.123	0.220	0.703
L4	0.006	0.064	0.048	0.196	0.321	0.933
L5	0.010	0.089	0.056	0.279	0.440	1.146
L6	0.014	0.118	0.067	0.352	0.556	1.371
L7	0.021	0.143	0.104	0.414	0.672	1.577
L8	0.026	0.180	0.132	0.475	0.780	1.806
L9	0.028	0.191	0.156	0.499	0.811	1.908
L10	0.030	0.211	0.151	0.518	0.857	1.988
L11	0.034	0.221	0.148	0.538	0.900	2.113
L12	0.036	0.229	0.144	0.546	0.949	2.314
L13	0.039	0.231	0.158	0.548	0.900	2.571
U1	0.040	0.228	0.162	0.491	0.836	2.378
U2	0.007	0.164	0.060	0.306	0.611	1.785
U3	-0.004	0.089	0.030	0.154	0.421	1.405
U4	-0.017	0.039	-0.008	0.011	0.232	1.044
U5	-0.025	0.008	-0.050	-0.188	-0.100	0.638
U5A	-0.025	0.003	-0.047	-0.194	-0.088	0.630

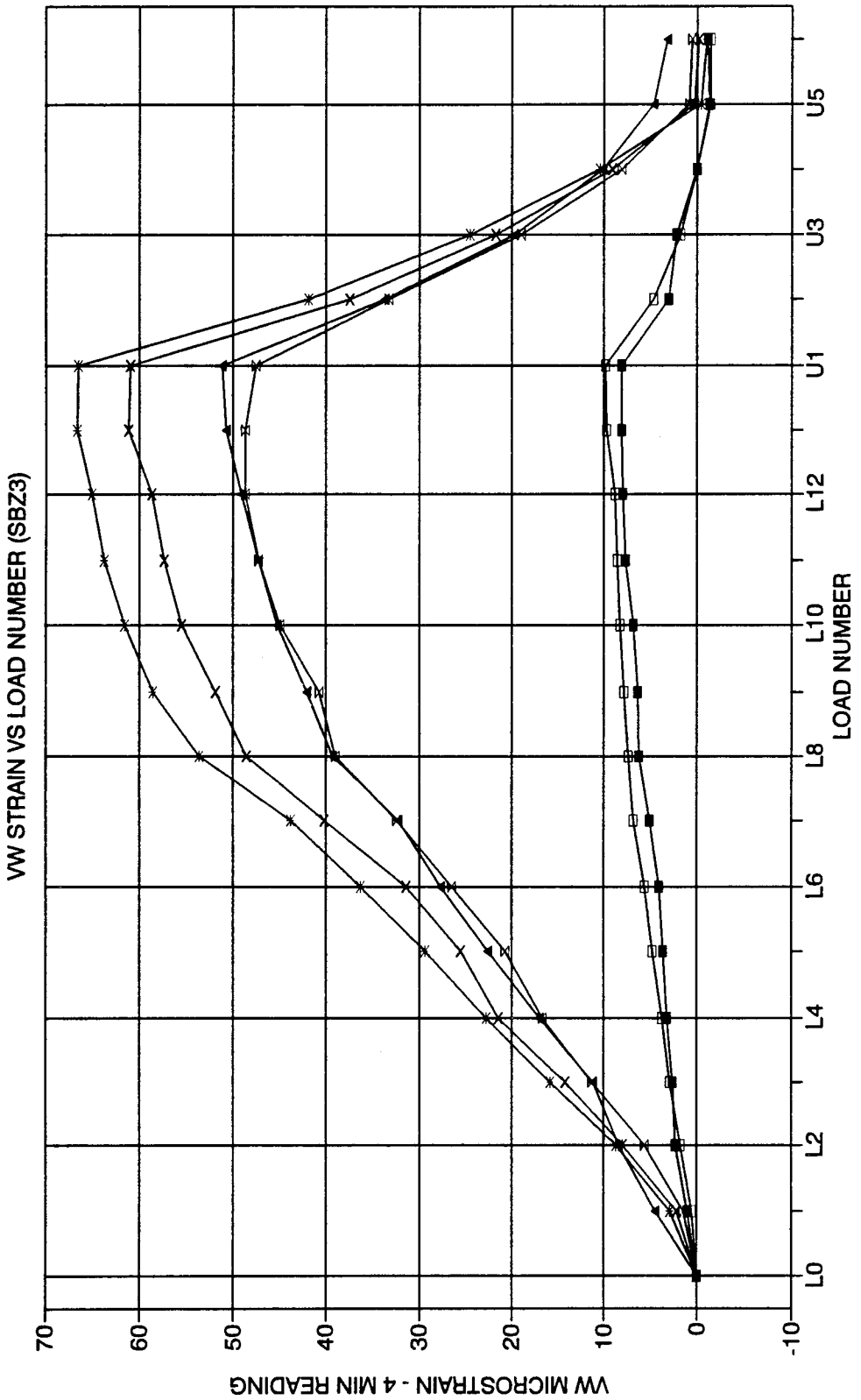

Figure F.158 Strain at Pile Top: Seabreeze Load Test 3

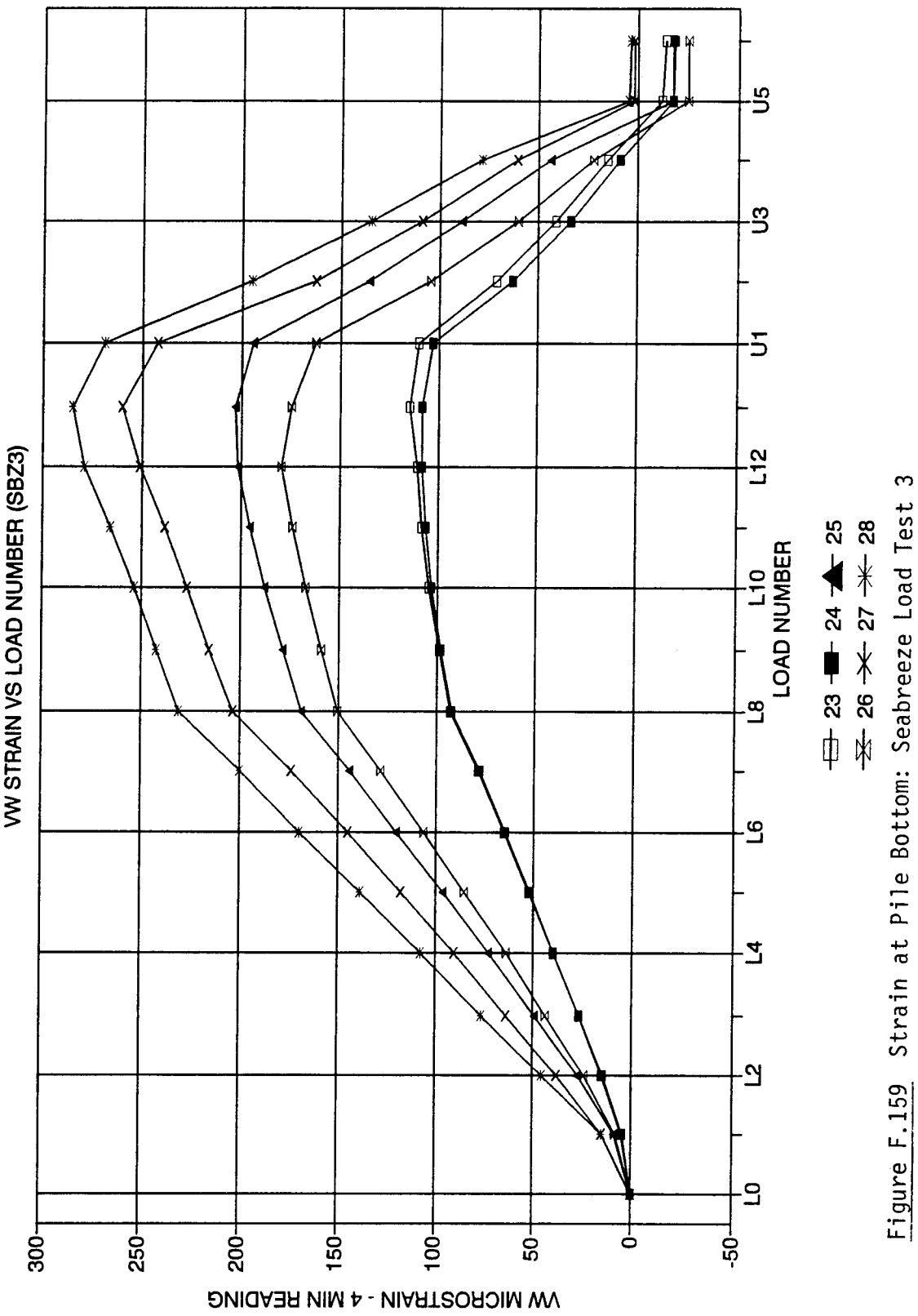

Figure F.159 Strain at Pile Bottom: Seabreeze Load Test 3

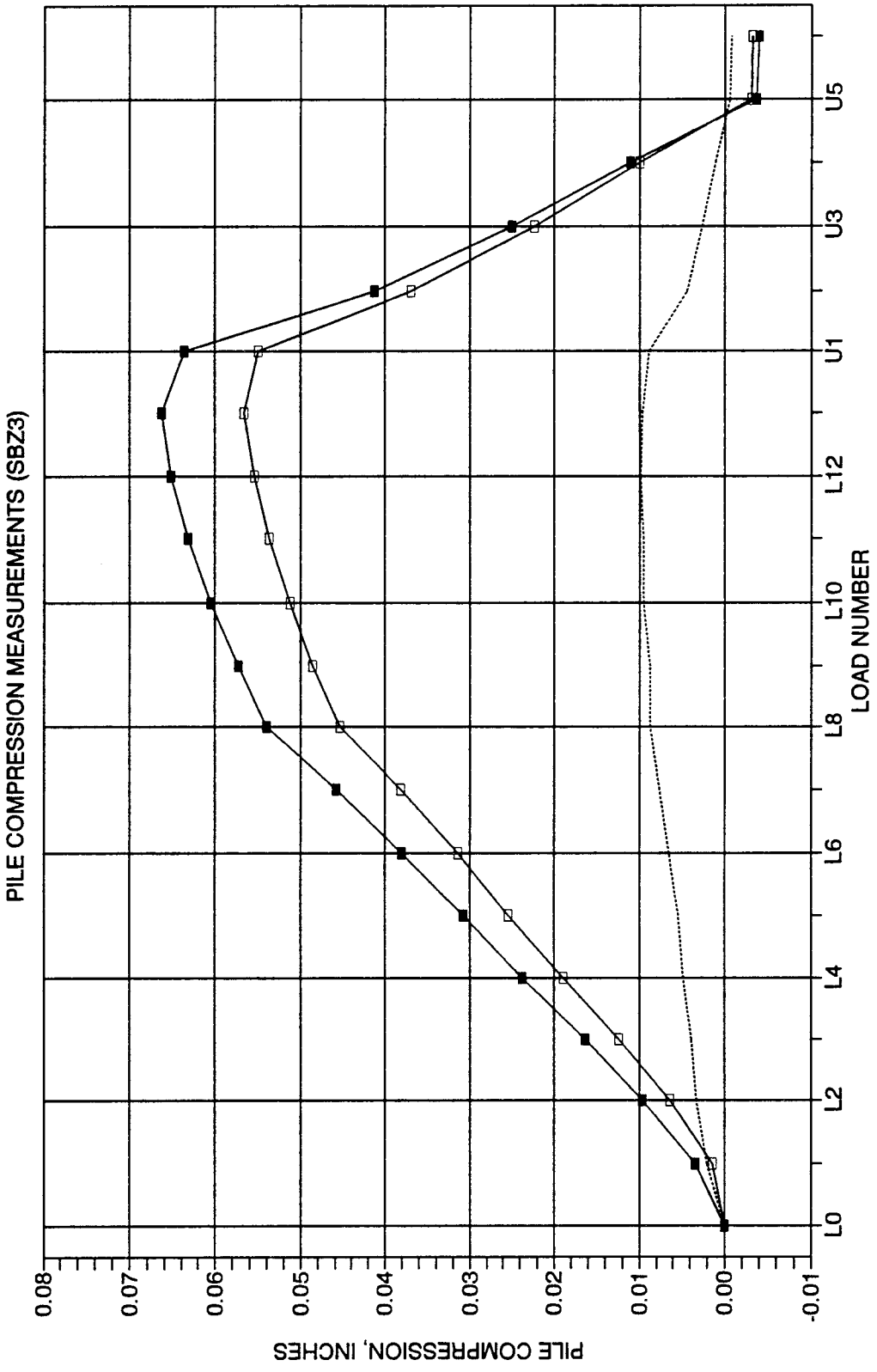

Figure F.160 Pile Compression Measurements: Seabreeze Load Test 3

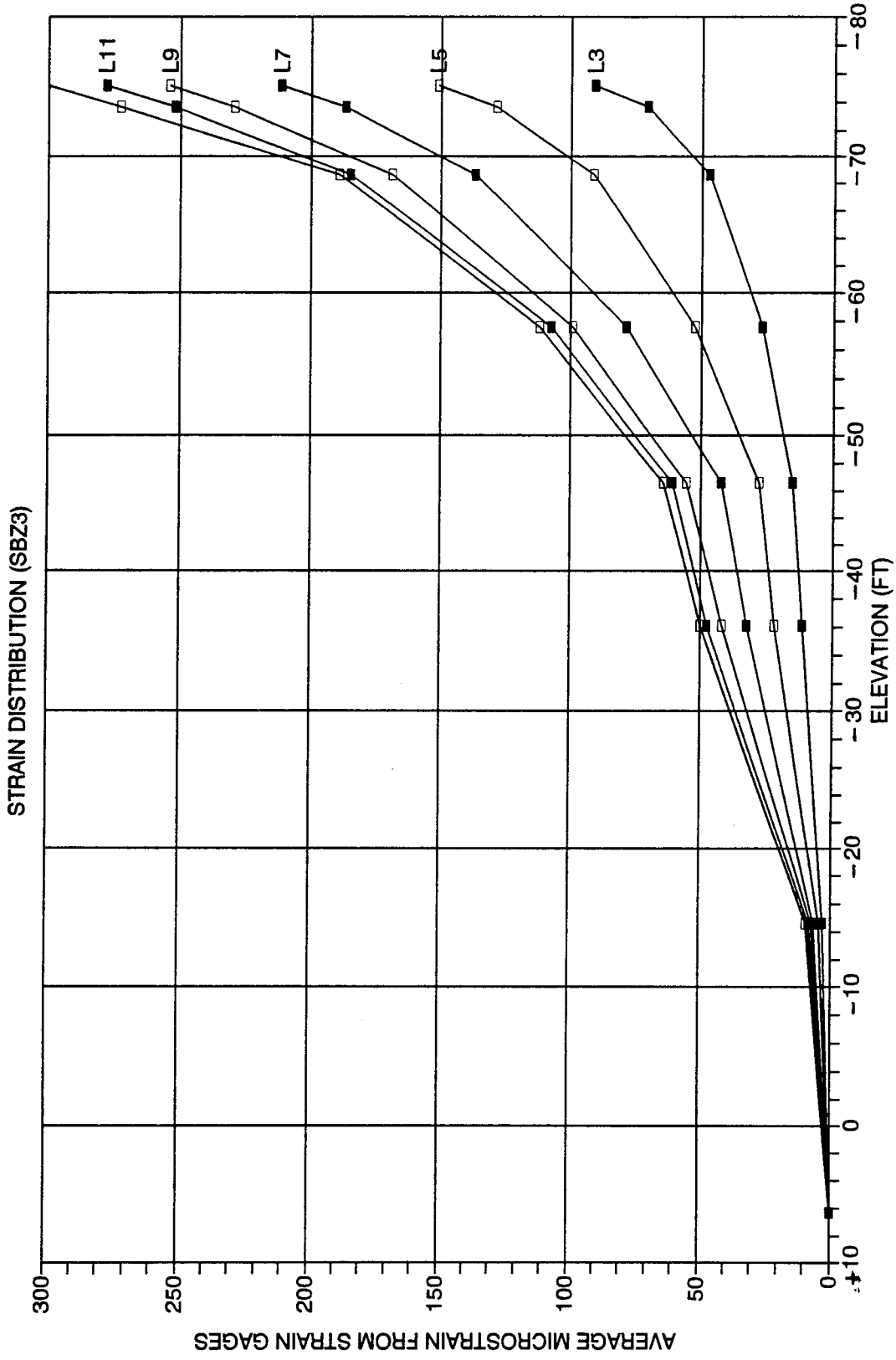

Figure F.161 Pile Strain Distribution: Seabreeze Load Test 3

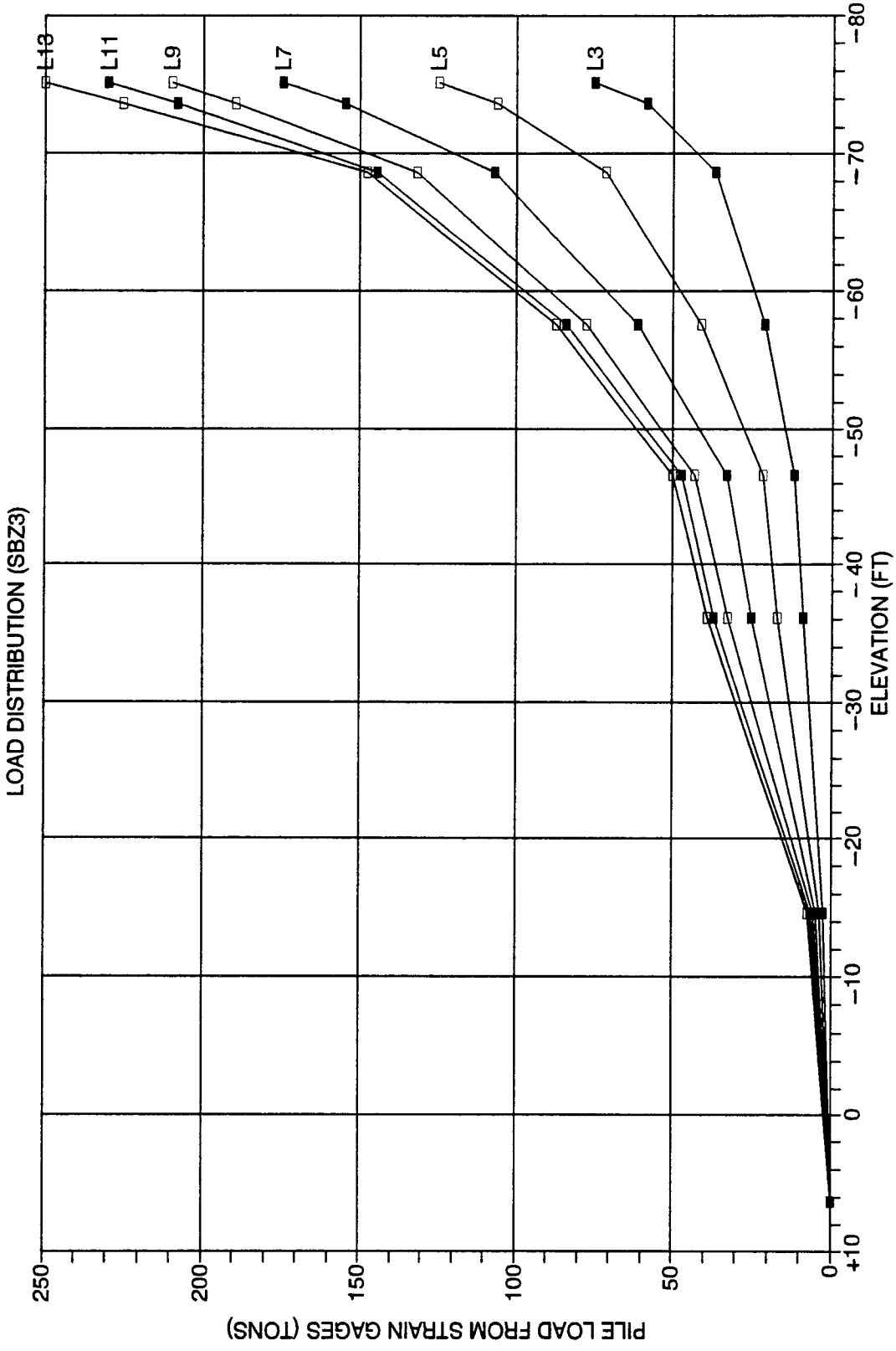

Figure F.162 Pile Load Distribution: Seabreeze Load Test 3

Table F.31 Strain Analyses: Sebreeze Load Test 4

VIBRATING WIRE INSTRUMENT READINGS - STRAIN

SBZ 4 LOAD NUMBER	TIME	VW STRN FREQ^2 KHZ^2 29	VW STRN FREQ^2 KHZ^2 30	VW STRN FREQ^2 KHZ^2 5	VW STRN FREQ^2 KHZ^2 6	VW STRN FREQ^2 KHZ^2 37	VW STRN FREQ^2 KHZ^2 38	VW STRN FREQ^2 KHZ^2 23	VW STRN FREQ^2 KHZ^2 24	VW STRN FREQ^2 KHZ^2 25	VW STRN FREQ KHZ^2 26	VW STRN FREQ KHZ^2 27	VW STRN FREQ KHZ^2 28
L0	13:36:16	0.64320	0.76707	0.65090	0.60903	0.69643	0.65222	0.71860	0.63773	0.68250	0.73856	0.86949	0.80076
L0	13:36:56	0.64321	0.76708	0.65093	0.60903	0.69642	0.65223	0.71861	0.63771	0.68253	0.73857	0.86952	0.80076
L0	13:37:27	0.64320	0.76707	0.65093	0.60903	0.69643	0.65223	0.71860	0.63773	0.68249	0.73855	0.86948	0.80075
L0	13:52:27	0.64317	0.76704	0.65085	0.60897	0.69636	0.65222	0.71857	0.63771	0.68247	0.73857	0.86948	0.80074
L0	14:03:34	0.64315	0.76703	0.65084	0.60894	0.69634	0.65220	0.71858	0.63771	0.68248	0.73857	0.86950	0.80077
L1	14:07:48	0.64304	0.76697	0.65044	0.60851	0.69525	0.65175	0.71761	0.63669	0.68080	0.73699	0.86585	0.79830
L1	14:08:17	0.64304	0.76697	0.65043	0.60851	0.69523	0.65175	0.71762	0.63669	0.68081	0.73695	0.86585	0.79828
L1	14:09:17	0.64304	0.76698	0.65043	0.60851	0.69523	0.65175	0.71760	0.63669	0.68081	0.73695	0.86586	0.79829
L1	14:11:17	0.64303	0.76697	0.65041	0.60848	0.69518	0.65173	0.71754	0.63663	0.68073	0.73694	0.86577	0.79823
L2	14:13:13	0.64270	0.76682	0.64971	0.60818	0.69422	0.65034	0.71522	0.63426	0.67635	0.73333	0.86074	0.79217
L2	14:13:43	0.64269	0.76683	0.64968	0.60816	0.69418	0.65032	0.71520	0.63425	0.67629	0.73336	0.86073	0.79212
L2	14:14:42	0.64269	0.76683	0.64965	0.60813	0.69410	0.65029	0.71516	0.63422	0.67624	0.73331	0.86068	0.79201
L2	14:16:43	0.64270	0.76683	0.64966	0.60811	0.69404	0.65026	0.71510	0.63419	0.67621	0.73325	0.86064	0.79189
L3	14:18:25	0.64244	0.76645	0.64839	0.60640	0.69261	0.64878	0.71232	0.63127	0.67099	0.72872	0.85493	0.78494
L3	14:18:50	0.64243	0.76645	0.64835	0.60635	0.69257	0.64874	0.71221	0.63125	0.67089	0.72878	0.85493	0.78503
L3	14:21:48	0.64242	0.76644	0.64831	0.60631	0.69254	0.64868	0.71188	0.63088	0.67026	0.72766	0.85396	0.78416
L4	14:23:41	0.64215	0.76632	0.64699	0.60557	0.69116	0.64706	0.70913	0.62807	0.66520	0.72376	0.84891	0.77795
L4	14:24:11	0.64215	0.76633	0.64694	0.60553	0.69135	0.64706	0.70911	0.62806	0.66519	0.72376	0.84894	0.77786
L4	14:25:12	0.64214	0.76632	0.64687	0.60538	0.69132	0.64700	0.70901	0.62797	0.66508	0.72371	0.84861	0.77777
L4	14:27:10	0.64213	0.76632	0.64685	0.60511	0.69116	0.64697	0.70903	0.62792	0.66502	0.72368	0.84857	0.77771
L5	14:28:51	0.64193	0.76616	0.64563	0.60357	0.69009	0.64537	0.70600	0.62492	0.65913	0.71871	0.84233	0.77085
L5	14:29:21	0.64193	0.76617	0.64558	0.60356	0.69006	0.64533	0.70596	0.62489	0.65910	0.71870	0.84230	0.77083
L5	14:30:29	0.64193	0.76617	0.64552	0.60352	0.68995	0.64528	0.70585	0.62480	0.65904	0.71862	0.84226	0.77074
L5	14:32:20	0.64192	0.76617	0.64541	0.60350	0.68982	0.64520	0.70570	0.62470	0.65912	0.71849	0.84208	0.77057
L6	14:34:24	0.64179	0.76600	0.64440	0.60269	0.68867	0.64384	0.70294	0.62180	0.65332	0.71361	0.83611	0.76362
L6	14:34:53	0.64178	0.76600	0.64438	0.60264	0.68867	0.64379	0.70290	0.62174	0.65318	0.71356	0.83602	0.76360
L6	14:35:53	0.64178	0.76600	0.64435	0.60261	0.68864	0.64374	0.70283	0.62169	0.65310	0.71353	0.83601	0.76355
L6	14:37:54	0.64179	0.76599	0.64427	0.60250	0.68855	0.64368	0.70258	0.62156	0.65297	0.71335	0.83585	0.76329
L7	14:40:04	0.64158	0.76584	0.64332	0.60151	0.68680	0.64243	0.69980	0.61868	0.64720	0.70819	0.82953	0.75646
L7	14:40:34	0.64157	0.76584	0.64326	0.60151	0.68673	0.64239	0.69976	0.61864	0.64711	0.70814	0.82936	0.75629
L7	14:41:33	0.64156	0.76583	0.64319	0.60164	0.68668	0.64232	0.69967	0.61855	0.64703	0.70809	0.82913	0.75630
L7	14:43:33	0.64155	0.76583	0.64310	0.60213	0.68661	0.64222	0.69955	0.61850	0.64695	0.70807	0.82901	0.75626
L8	14:45:28	0.64136	0.76567	0.64207	0.60067	0.68559	0.64107	0.69646	0.61569	0.64115	0.70291	0.82300	0.74955
L8	14:45:58	0.64135	0.76568	0.64206	0.60060	0.68567	0.64098	0.69642	0.61568	0.64110	0.70290	0.82297	0.74939
L8	14:46:59	0.64135	0.76567	0.64203	0.60051	0.68586	0.64088	0.69639	0.61562	0.64111	0.70293	0.82303	0.74948
L8	14:49:01	0.64134	0.76569	0.64196	0.60034	0.68572	0.64075	0.69630	0.61542	0.64089	0.70276	0.82277	0.74918
L9	14:50:43	0.64114	0.76549	0.64097	0.59931	0.68398	0.63933	0.69312	0.61231	0.63500	0.69734	0.81642	0.74223
L9	14:51:14	0.64113	0.76549	0.64092	0.59921	0.68450	0.63926	0.69302	0.61230	0.63496	0.69725	0.81626	0.74217
L9	14:52:13	0.64114	0.76549	0.64086	0.59907	0.68442	0.63918	0.69302	0.61231	0.63506	0.69753	0.81654	0.74217
L9	14:54:17	0.64112	0.76548	0.64072	0.59887	0.68417	0.63906	0.69296	0.61219	0.63488	0.69720	0.81577	0.74192
L10	14:55:58	0.64085	0.76525	0.63948	0.59794	0.68249	0.63731	0.68977	0.60888	0.62903	0.69223	0.80975	0.73532
L10	14:56:30	0.64086	0.76525	0.63939	0.59782	0.68244	0.63720	0.68967	0.60878	0.62893	0.69218	0.80965	0.73524
L10	14:57:30	0.64087	0.76525	0.63931	0.59762	0.68238	0.63703	0.68953	0.60867	0.62886	0.69217	0.80966	0.73524

Table F.31 continued

VIBRATING WIRE INSTRUMENT READINGS - STRAIN

SBZ 4 LOAD NUMBER	TIME	VW STRN FREQ^2 KHZ^2 29	VW STRN FREQ^2 KHZ^2 30	VW STRN FREQ^2 KHZ^2 5	VW STRN FREQ^2 KHZ^2 6	VW STRN FREQ^2 KHZ^2 37	VW STRN FREQ^2 KHZ^2 38	VW STRN FREQ^2 KHZ^2 23	VW STRN FREQ^2 KHZ^2 24	VW STRN FREQ^2 KHZ^2 25	VW STRN FREQ KHZ^2 26	VW STRN FREQ KHZ^2 27	VW STRN FREQ KHZ^2 28
L10	14:59:29	0.64083	0.76523	0.63922	0.59740	0.68212	0.63690	0.68936	0.60854	0.62881	0.69215	0.80953	0.73511
L11	15:01:04	0.64064	0.76513	0.63842	0.59746	0.68105	0.63604	0.68752	0.60687	0.62589	0.68945	0.80609	0.73128
L11	15:01:34	0.64063	0.76511	0.63835	0.59732	0.68092	0.63591	0.68731	0.60671	0.62568	0.68932	0.80611	0.73151
L11	15:02:38	0.64063	0.76512	0.63831	0.59724	0.68085	0.63578	0.68735	0.60682	0.62595	0.68959	0.80637	0.73180
L11	15:04:32	0.64061	0.76511	0.63825	0.59716	0.68073	0.63545	0.68731	0.60662	0.62578	0.68942	0.80610	0.73157
L12	15:05:59	0.64052	0.76506	0.63757	0.59584	0.68002	0.63464	0.68567	0.60492	0.62294	0.68675	0.80253	0.72799
L12	15:06:33	0.64051	0.76507	0.63751	0.59584	0.68012	0.63459	0.68556	0.60465	0.62279	0.68669	0.80246	0.72795
L12	15:07:29	0.64053	0.76507	0.63750	0.59584	0.68006	0.63450	0.68548	0.60448	0.62268	0.68657	0.80233	0.72774
L12	15:09:30	0.64050	0.76506	0.63724	0.59550	0.67966	0.63425	0.68531	0.60446	0.62278	0.68671	0.80240	0.72796
L13	15:11:21	0.64037	0.76498	0.63673	0.59577	0.67876	0.63317	0.68341	0.60305	0.61994	0.68408	0.79884	0.72456
L13	15:12:02	0.64036	0.76497	0.63664	0.59562	0.67859	0.63307	0.68332	0.60286	0.61987	0.68403	0.79888	0.72460
L13	15:12:54	0.64035	0.76496	0.63646	0.59545	0.67833	0.63296	0.68325	0.60279	0.61989	0.68411	0.79899	0.72460
L13	15:14:52	0.64035	0.76496	0.63637	0.59540	0.67839	0.63277	0.68321	0.60272	0.61985	0.68412	0.79878	0.72452
L14	15:16:29	0.64028	0.76471	0.63581	0.59400	0.67775	0.63183	0.68133	0.60125	0.61697	0.68159	0.79552	0.72116
L14	15:16:59	0.64027	0.76469	0.63578	0.59399	0.67777	0.63179	0.68144	0.60138	0.61721	0.68182	0.79572	0.72124
L14	15:17:59	0.64027	0.76464	0.63571	0.59393	0.67764	0.63173	0.68134	0.60130	0.61725	0.68168	0.79572	0.72132
L14	15:20:04	0.64026	0.76466	0.63566	0.59389	0.67768	0.63169	0.68122	0.60117	0.61706	0.68181	0.79552	0.72125
L15	15:21:42	0.64018	0.76445	0.63512	0.59361	0.67688	0.63092	0.67937	0.59981	0.61450	0.67951	0.79217	0.71805
L15	15:22:13	0.64017	0.76446	0.63503	0.59370	0.67692	0.63096	0.67953	0.59903	0.61488	0.67951	0.79224	0.71822
L15	15:23:13	0.64015	0.76443	0.63499	0.59373	0.67688	0.63102	0.67965	0.59907	0.61491	0.67978	0.79222	0.71797
L15	15:25:15	0.64014	0.76442	0.63492	0.59382	0.67690	0.63104	0.67975	0.59910	0.61506	0.68018	0.79220	0.71778
L16	15:27:05	0.64001	0.76438	0.63465	0.59385	0.67675	0.63088	0.67859	0.59926	0.61356	0.67861	0.78996	0.71529
L16	15:27:36	0.64002	0.76439	0.63474	0.59394	0.67683	0.63095	0.67919	0.59975	0.61407	0.67931	0.79004	0.71549
L16	15:28:49	0.64003	0.76440	0.63467	0.59390	0.67678	0.63094	0.67921	0.59907	0.61439	0.68003	0.79072	0.71620
L16A	15:30:44	0.63999	0.76441	0.63470	0.59392	0.67684	0.63096	0.67974	0.59979	0.61566	0.68173	0.79239	0.71789
U1	15:34:48	0.64019	0.76458	0.63519	0.59358	0.67723	0.63166	0.68156	0.60236	0.61917	0.68550	0.79799	0.72161
U2	15:38:56	0.64112	0.76561	0.63803	0.59681	0.68126	0.63586	0.68823	0.60908	0.62934	0.69530	0.81170	0.73425
U3	15:42:45	0.64186	0.76628	0.64046	0.59924	0.68395	0.63909	0.69351	0.61412	0.63715	0.70284	0.82096	0.74457
U4	15:46:42	0.64279	0.76696	0.64468	0.60396	0.68935	0.64441	0.70225	0.62276	0.65131	0.71568	0.83643	0.76216
U5	15:51:06	0.64317	0.76707	0.64616	0.60463	0.69079	0.64615	0.70554	0.62573	0.65656	0.72064	0.84227	0.76889
U6	15:55:41	0.64356	0.76740	0.64860	0.60708	0.69410	0.64940	0.71311	0.63320	0.67165	0.73241	0.85766	0.78703
U7	16:00:08	0.64391	0.76782	0.65025	0.60867	0.69547	0.65169	0.71830	0.63833	0.68347	0.74122	0.86813	0.80060
U7A	16:03:09	0.64394	0.76786	0.65043	0.60878	0.69569	0.65177	0.71837	0.63839	0.68355	0.74121	0.86821	0.80073
U7A	16:07:54	0.64396	0.76788	0.65052	0.60883	0.69582	0.65187	0.71847	0.63844	0.68360	0.74118	0.86832	0.80084
U7A	16:22:54	0.64395	0.76788	0.65068	0.60894	0.69607	0.65209	0.71863	0.63844	0.68359	0.74109	0.86852	0.80075
U7A	16:29:51	0.64396	0.76790	0.65074	0.60896	0.69614	0.65215	0.71866	0.63842	0.68357	0.74106	0.86834	0.80072

NOTE: L9 FIELD DATA FOR GAGE 6 WAS POOR - REPLACED WITH AVERAGE OF L8 & L10

Table F.31 continued

VIBRATING WIRE INSTRUMENT READINGS - TEMPERATURE

SBZ 4 LOAD NUMBER	TIME	VW STRN TEMP DEG C 29	VW STRN TEMP DEG C 30	VW STRN TEMP DEG C 5	VW STRN TEMP DEG C 6	VW STRN TEMP DEG C 37	VW STRN TEMP DEG C 38	VW STRN TEMP DEG C 23	VW STRN TEMP DEG C 24	VW STRN TEMP DEG C 25	VW STRN TEMP DEG C 26	VW STRN TEMP DEG C 27	VW STRN TEMP DEG C 28
L0	13:36:16	23.297	23.615	23.615	24.031	24.063	23.966	23.742	23.806	23.678	23.838	22.949	23.519
L0	13:36:56	23.297	23.583	23.615	24.031	24.063	23.966	23.774	23.806	23.678	23.838	22.949	23.519
L0	13:37:27	23.297	23.615	23.615	23.998	24.063	23.966	23.774	23.774	23.678	23.838	22.981	23.487
L0	13:52:27	23.297	23.615	23.615	24.031	24.063	23.934	23.774	23.806	23.678	23.806	22.981	23.519
L0	14:03:34	23.297	23.615	23.647	23.998	24.063	23.966	23.774	23.774	23.678	23.838	22.981	23.487
L1	14:07:48	23.265	23.615	23.615	24.031	24.031	23.966	23.774	23.806	23.647	23.838	22.981	23.519
L1	14:08:17	23.295	23.612	23.612	24.028	24.061	23.964	23.740	23.804	23.676	23.836	22.947	23.517
L1	14:09:17	23.295	23.581	23.612	24.028	24.028	23.964	23.772	23.804	23.644	23.836	22.979	23.517
L1	14:11:17	23.295	23.613	23.613	24.029	24.029	23.965	23.772	23.804	23.645	23.836	22.979	23.517
L2	14:13:13	23.295	23.613	23.581	24.029	24.061	23.965	23.741	23.804	23.677	23.836	22.948	23.517
L2	14:13:43	23.295	23.613	23.613	23.997	24.061	23.965	23.772	23.772	23.677	23.836	22.979	23.484
L2	14:14:42	23.293	23.579	23.611	24.027	24.027	23.931	23.771	23.771	23.675	23.803	22.977	23.516
L2	14:16:43	23.293	23.611	23.611	24.027	24.059	23.931	23.771	23.803	23.675	23.801	22.976	23.514
L3	14:18:25	23.292	23.610	23.610	24.026	24.058	23.961	23.737	23.801	23.673	23.833	22.945	23.514
L3	14:18:50	23.292	23.578	23.610	24.026	24.058	23.929	23.769	23.801	23.673	23.801	22.976	23.514
L3	14:21:48	23.261	23.611	23.579	24.027	24.027	23.962	23.770	23.802	23.642	23.834	22.977	23.515
L4	14:23:41	23.294	23.611	23.611	24.027	24.027	23.963	23.771	23.803	23.643	23.835	22.978	23.516
L4	14:24:11	23.294	23.611	23.643	24.027	24.059	23.931	23.771	23.803	23.675	23.803	22.978	23.516
L4	14:25:12	23.294	23.611	23.580	24.027	24.059	23.963	23.739	23.803	23.675	23.835	22.978	23.516
L4	14:27:10	23.294	23.612	23.612	23.996	24.060	23.964	23.772	23.772	23.676	23.836	22.978	23.485
L5	14:28:51	23.295	23.613	23.613	24.029	24.061	23.932	23.772	23.804	23.676	23.804	22.979	23.517
L5	14:29:21	23.295	23.613	23.613	24.029	24.061	23.964	23.740	23.804	23.676	23.836	22.947	23.517
L5	14:30:29	23.295	23.613	23.644	24.029	24.029	23.964	23.772	23.804	23.644	23.836	22.979	23.517
L5	14:32:20	23.264	23.581	23.613	24.029	24.029	23.965	23.773	23.805	23.645	23.837	22.979	23.517
L6	14:34:24	23.264	23.613	23.613	24.029	24.029	23.965	23.739	23.803	23.675	23.835	22.946	23.516
L6	14:34:53	23.293	23.611	23.643	24.027	24.027	23.963	23.771	23.803	23.643	23.835	22.978	23.516
L6	14:35:53	23.293	23.611	23.611	24.027	24.059	23.963	23.739	23.803	23.675	23.835	22.946	23.516
L6	14:37:54	23.294	23.580	23.644	24.028	24.060	23.931	23.771	23.803	23.676	23.803	22.978	23.516
L7	14:40:04	23.262	23.612	23.612	24.028	24.028	23.964	23.771	23.803	23.644	23.835	22.978	23.516
L7	14:40:34	23.292	23.578	23.610	24.026	24.058	23.930	23.770	23.802	23.674	23.802	22.977	23.515
L7	14:41:33	23.292	23.610	23.642	24.026	24.026	23.962	23.770	23.802	23.642	23.834	22.977	23.515
L7	14:43:33	23.293	23.611	23.643	24.027	24.027	23.963	23.771	23.803	23.643	23.835	22.978	23.516
L8	14:45:28	23.293	23.611	23.611	24.027	24.059	23.963	23.739	23.803	23.675	23.835	22.946	23.516
L8	14:45:58	23.293	23.611	23.643	23.995	24.059	23.963	23.771	23.771	23.675	23.835	22.978	23.482
L8	14:46:59	23.292	23.610	23.610	24.026	24.058	23.929	23.769	23.801	23.673	23.801	22.976	23.514
L8	14:49:01	23.260	23.610	23.610	24.026	24.026	23.961	23.769	23.801	23.640	23.832	22.975	23.513
L9	14:50:43	23.259	23.608	23.640	23.992	24.056	23.928	23.768	23.800	23.672	23.800	22.975	23.513
L9	14:51:14	23.291	23.577	23.640	24.024	24.056	23.928	23.768	23.800	23.672	23.800	22.975	23.513
L9	14:52:13	23.260	23.610	23.642	24.026	24.026	23.961	23.769	23.801	23.642	23.833	22.976	23.514
L9	14:54:17	23.260	23.578	23.610	23.993	24.026	23.961	23.737	23.801	23.673	23.833	22.945	23.514
L10	14:55:58	23.293	23.611	23.643	23.994	24.059	23.962	23.770	23.770	23.674	23.834	22.977	23.483
L10	14:56:30	23.293	23.611	23.643	23.994	24.059	23.962	23.770	23.802	23.674	23.834	22.977	23.483
L10	14:57:30	23.293	23.579	23.643	24.027	24.059	23.930	23.770	23.802	23.674	23.834	22.977	23.515

Table F.31 continued

VIBRATING WIRE INSTRUMENT READINGS - TEMPERATURE

SBZ 4 LOAD NUMBER	TIME	VW STRN TEMP DEG C 29	VW STRN TEMP DEG C 30	VW STRN TEMP DEG C 5	VW STRN TEMP DEG C 6	VW STRN TEMP DEG C 37	VW STRN TEMP DEG C 38	VW STRN TEMP DEG C 23	VW STRN TEMP DEG C 24	VW STRN TEMP DEG C 25	VW STRN TEMP DEG C 26	VW STRN TEMP DEG C 27	VW STRN TEMP DEG C 28
L10	14:59:29	23.294	23.611	23.611	24.027	24.060	23.963	23.739	23.803	23.675	23.835	22.946	23.516
L11	15:01:04	23.294	23.612	23.612	24.028	24.060	23.964	23.772	23.804	23.676	23.836	22.947	23.517
L11	15:01:34	23.294	23.612	23.644	23.996	24.060	23.964	23.772	23.772	23.676	23.836	22.978	23.485
L11	15:02:38	23.294	23.612	23.644	23.996	24.060	23.964	23.772	23.804	23.676	23.836	22.978	23.485
L11	15:04:32	23.263	23.613	23.613	24.029	24.061	23.964	23.740	23.804	23.676	23.836	22.948	23.517
L12	15:05:59	23.295	23.613	23.644	23.996	24.061	23.964	23.772	23.772	23.676	23.836	22.979	23.485
L12	15:06:33	23.263	23.613	23.613	24.029	24.061	23.964	23.740	23.804	23.676	23.836	22.946	23.515
L12	15:07:29	23.293	23.611	23.611	24.027	24.059	23.963	23.738	23.834	23.675	23.834	22.946	23.515
L12	15:09:30	23.261	23.579	23.643	24.027	24.059	23.930	23.770	23.802	23.675	23.801	22.976	23.514
L13	15:11:21	23.292	23.609	23.609	24.025	24.057	23.961	23.737	23.801	23.673	23.833	22.944	23.514
L13	15:12:02	23.292	23.578	23.641	24.025	24.057	23.929	23.769	23.801	23.673	23.801	22.976	23.514
L13	15:12:54	23.293	23.610	23.610	23.994	24.059	23.962	23.770	23.802	23.674	23.834	22.977	23.483
L13	15:14:52	23.261	23.610	23.642	24.026	24.026	23.930	23.770	23.802	23.642	23.834	22.977	23.515
L14	15:16:29	23.294	23.611	23.643	24.027	24.027	23.963	23.771	23.803	23.643	23.835	22.978	23.516
L14	15:16:59	23.294	23.611	23.643	24.027	24.059	23.931	23.771	23.803	23.675	23.803	22.978	23.516
L14	15:17:59	23.294	23.611	23.643	23.995	24.059	23.963	23.771	23.803	23.675	23.835	22.978	23.484
L14	15:20:04	23.263	23.612	23.644	24.028	24.028	23.964	23.772	23.836	23.644	23.836	22.978	23.516
L15	15:21:42	23.295	23.612	23.644	23.996	24.061	23.964	23.772	23.804	23.676	23.836	22.979	23.485
L15	15:22:13	23.295	23.612	23.612	24.028	24.028	23.964	23.772	23.836	23.644	23.836	22.979	23.517
L15	15:23:13	23.295	23.612	23.612	24.028	24.061	23.964	23.740	23.836	23.676	23.836	22.947	23.517
L15	15:25:15	23.263	23.613	23.645	24.029	24.061	23.933	23.772	23.837	23.677	23.804	22.979	23.517
L16	15:27:05	23.295	23.613	23.613	24.029	24.061	23.965	23.741	23.804	23.677	23.837	22.946	23.516
L16	15:27:36	23.293	23.611	23.611	24.027	24.059	23.963	23.739	23.835	23.675	23.835	22.946	23.516
L16	15:28:49	23.293	23.611	23.611	24.027	24.059	23.963	23.739	23.803	23.675	23.835	22.946	23.516
L16A	15:30:44	23.262	23.612	23.644	24.028	24.028	23.964	23.771	23.803	23.644	23.835	22.978	23.516
U1	15:34:48	23.295	23.612	23.612	24.028	24.060	23.964	23.740	23.804	23.676	23.836	22.947	23.517
U2	15:38:56	23.295	23.613	23.613	24.029	24.061	23.965	23.739	23.803	23.675	23.835	22.946	23.515
U3	15:42:45	23.294	23.612	23.644	24.028	24.028	23.963	23.771	23.803	23.644	23.835	22.978	23.516
U4	15:46:42	23.295	23.580	23.612	24.028	24.060	23.932	23.740	23.804	23.676	23.804	22.979	23.517
U5	15:51:06	23.295	23.581	23.613	24.029	24.061	23.933	23.773	23.805	23.677	23.805	22.980	23.486
U6	15:55:41	23.296	23.582	23.613	23.997	24.029	23.933	23.773	23.805	23.645	23.805	22.948	23.518
U7	16:00:08	23.264	23.582	23.582	24.030	24.062	23.966	23.741	23.805	23.678	23.837	22.949	23.518
U7A	16:03:09	23.296	23.582	23.614	23.998	24.030	23.966	23.774	23.806	23.646	23.838	22.980	23.518
U7A	16:07:54	23.296	23.550	23.614	24.030	24.062	23.934	23.774	23.806	23.678	23.806	22.949	23.487
U7A	16:22:54	23.297	23.551	23.583	23.998	24.063	23.934	23.774	23.774	23.646	23.806	22.949	23.487
U7A	16:29:51	23.297	23.583	23.583	23.966	24.063	23.934	23.774	23.774	23.678	23.838	22.949	23.487

Table F.31 continued

VIBRATING WIRE CALCULATED STRAIN

SBZ 4 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 29	VW STRN MICRO STRAIN 30	VW STRN MICRO STRAIN 5	VW STRN MICRO STRAIN 6	VW STRN MICRO STRAIN 37	VW STRN MICRO STRAIN 38	VW STRN MICRO STRAIN 23	VW STRN MICRO STRAIN 24	VW STRN MICRO STRAIN 25	VW STRN MICRO STRAIN 26	VW STRN MICRO STRAIN 27	VW STRN MICRO STRAIN 28
L0	13:36:16	-0.2	-0.1	-0.2	-0.3	-0.3	-0.1	-0.0	-0.1	-0.1	0.0	0.1	-0.0
L0	13:36:56	-0.2	-0.1	-0.3	-0.3	-0.3	-0.1	-0.1	-0.0	-0.2	0.0	-0.0	-0.0
L0	13:37:27	-0.2	-0.1	-0.3	-0.3	-0.3	-0.1	-0.1	-0.1	-0.0	0.1	0.1	0.1
L0	13:52:27	-0.1	-0.0	0.0	-0.1	-0.1	-0.0	0.0	-0.0	0.0	0.0	0.1	0.1
L0	14:03:34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
L1	14:07:48	0.4	0.2	1.4	1.4	3.6	1.5	3.2	3.3	5.6	5.2	12.1	8.1
L1	14:08:17	0.4	0.2	1.4	1.4	3.7	1.5	3.2	3.3	5.5	5.4	12.1	8.2
L1	14:09:17	0.4	0.2	1.4	1.4	3.7	1.5	3.2	3.3	5.6	5.4	12.0	8.2
L1	14:11:17	0.4	0.2	1.5	1.5	3.9	1.6	3.4	3.5	5.8	5.4	12.3	8.4
L2	14:13:13	1.5	0.7	3.8	2.5	7.0	6.1	11.1	11.4	20.3	17.3	29.0	28.4
L2	14:13:43	1.5	0.7	3.9	2.6	7.1	6.2	11.2	11.4	20.5	17.2	29.0	28.6
L2	14:14:42	1.5	0.7	4.0	2.6	7.4	6.4	11.3	11.5	20.6	17.4	29.1	28.9
L2	14:16:43	1.5	0.7	3.9	2.7	7.6	6.5	11.5	11.6	20.7	17.6	29.3	29.3
L3	14:18:25	2.4	1.9	8.1	8.4	12.3	11.3	20.7	21.2	38.0	32.6	48.2	52.3
L3	14:18:50	2.4	2.0	8.3	8.5	12.5	11.5	21.1	21.3	38.3	32.4	48.1	52.0
L3	14:21:48	2.5	2.0	8.4	8.7	12.6	11.6	22.1	22.5	40.4	36.1	51.3	54.8
L4	14:23:41	3.3	2.4	12.8	11.1	17.2	17.0	31.2	31.8	57.1	48.9	68.0	75.4
L4	14:24:11	3.3	2.3	12.9	11.2	16.5	17.0	31.3	31.8	57.1	49.0	67.9	75.7
L4	14:25:12	3.3	2.4	13.2	11.7	16.6	17.2	31.7	32.1	57.5	49.1	69.0	76.0
L4	14:27:10	3.4	2.3	13.2	12.7	17.1	17.3	31.6	32.3	57.7	49.2	69.2	76.2
L5	14:28:51	4.0	2.9	17.3	17.7	20.7	22.6	41.6	42.2	77.2	65.7	89.8	98.8
L5	14:29:21	4.0	2.8	17.4	17.7	20.8	22.7	41.7	42.3	77.3	65.7	89.9	98.9
L5	14:30:29	4.0	2.8	17.6	17.9	21.2	22.9	42.1	42.6	77.5	65.9	90.0	99.2
L5	14:32:20	4.1	2.9	18.0	17.9	21.6	23.1	42.6	42.9	77.2	66.3	90.6	99.7
L6	14:34:24	4.5	3.4	21.3	20.6	25.4	27.6	51.7	52.5	96.3	82.5	110.4	122.7
L6	14:34:53	4.5	3.4	21.3	20.8	25.4	27.8	51.8	52.7	96.9	82.6	110.6	122.8
L6	14:35:53	4.5	3.4	21.5	20.9	25.4	28.0	52.1	52.9	97.1	82.7	110.7	122.9
L6	14:37:54	4.5	3.5	21.7	21.2	25.7	28.2	52.9	53.3	97.5	83.4	111.2	123.8
L7	14:40:04	5.2	3.9	24.9	24.5	31.6	32.3	62.1	62.8	116.6	100.4	132.1	146.4
L7	14:40:34	5.2	4.0	25.1	24.5	31.8	32.5	62.2	63.0	116.9	100.6	132.6	146.9
L7	14:41:33	5.3	4.0	25.3	24.1	32.0	32.6	62.5	63.3	117.2	100.7	133.4	146.9
L7	14:43:33	5.3	4.0	25.6	22.5	32.2	33.0	62.9	63.4	117.4	100.8	133.8	147.0
L8	14:45:28	5.9	4.5	29.0	27.3	35.5	36.8	73.1	72.7	136.6	117.8	153.7	169.2
L8	14:45:58	6.0	4.5	29.0	27.6	35.3	37.1	73.2	72.8	136.7	117.9	153.7	169.8
L8	14:46:59	6.0	4.5	29.2	27.8	34.6	37.4	73.3	73.0	136.7	117.8	153.5	169.4
L8	14:49:01	6.0	4.4	29.4	28.4	35.1	37.8	73.6	73.6	137.5	118.3	154.4	170.4
L9	14:50:43	6.7	5.1	32.6	31.8	40.8	42.6	84.1	83.9	156.9	136.3	175.4	193.4
L9	14:51:14	6.7	5.1	32.8	32.1	39.1	42.8	84.5	83.9	157.0	136.6	175.9	193.6
L9	14:52:13	6.7	5.1	33.0	32.6	39.4	43.0	84.5	83.9	156.7	135.6	175.0	193.6
L9	14:54:17	6.8	5.2	33.5	33.3	40.3	43.4	84.7	84.3	157.3	136.7	177.6	194.4
L10	14:55:58	7.6	5.9	37.5	36.3	45.8	49.2	95.2	95.3	176.6	153.1	197.4	216.3
L10	14:56:30	7.6	5.9	37.8	36.7	45.9	49.6	95.5	95.5	176.9	153.3	197.7	216.5
L10	14:57:30	7.5	5.9	38.1	37.4	46.1	50.2	96.0	95.9	177.2	153.3	197.7	216.5

Table F.31 continued

VIBRATING WIRE CALCULATED STRAIN

SBZ 4 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 29	VW STRN MICRO STRAIN 30	VW STRN MICRO STRAIN 5	VW STRN MICRO STRAIN 6	VW STRN MICRO STRAIN 37	VW STRN MICRO STRAIN 38	VW STRN MICRO STRAIN 23	VW STRN MICRO STRAIN 24	VW STRN MICRO STRAIN 25	VW STRN MICRO STRAIN 26	VW STRN MICRO STRAIN 27	VW STRN MICRO STRAIN 28
L10	14:59:29	7.7	6.0	38.4	38.1	47.0	50.6	96.6	96.3	177.3	153.4	198.2	216.9
L11	15:01:04	8.3	6.3	41.1	37.9	50.5	53.4	102.6	101.9	187.0	162.3	209.6	229.6
L11	15:01:34	8.3	6.3	41.3	38.4	51.0	53.8	103.3	102.4	187.7	162.7	209.4	228.8
L11	15:02:38	8.3	6.3	41.4	38.7	51.2	54.3	103.2	102.0	186.8	161.8	208.6	227.9
L11	15:04:32	8.4	6.3	41.6	38.9	51.6	55.3	103.4	102.7	187.3	162.4	209.5	228.6
L12	15:05:59	8.7	6.5	43.8	43.3	53.9	58.0	108.7	108.3	196.7	171.2	221.3	240.5
L12	15:06:33	8.8	6.5	44.1	43.2	53.6	58.2	109.1	109.2	197.2	171.4	221.5	240.6
L12	15:07:29	8.7	6.5	44.1	43.2	53.8	58.5	109.4	109.7	197.6	171.8	222.0	241.3
L12	15:09:30	8.8	6.6	44.9	44.4	55.1	59.4	109.9	109.8	197.3	171.4	221.7	240.5
L13	15:11:21	9.2	6.8	46.7	43.5	58.1	62.9	116.2	114.5	206.6	180.0	233.5	251.8
L13	15:12:02	9.2	6.9	46.9	44.0	58.7	63.3	116.5	115.1	206.9	180.2	233.3	251.6
L13	15:12:54	9.3	6.8	47.6	44.6	59.5	63.6	116.7	115.3	206.8	179.9	233.0	251.7
L13	15:14:52	9.3	6.8	47.8	44.7	59.4	64.2	116.9	115.6	207.0	179.9	233.7	251.9
L14	15:16:29	9.5	7.7	49.7	49.3	61.5	67.3	123.1	120.4	216.5	188.3	244.4	263.0
L14	15:16:59	9.5	7.7	49.8	49.4	61.4	67.5	122.7	120.0	215.7	187.5	243.8	262.7
L14	15:17:59	9.5	7.9	50.0	49.6	61.8	67.6	123.0	120.3	215.5	188.0	243.8	262.5
L14	15:20:04	9.6	7.8	50.2	49.7	61.7	67.8	123.4	120.6	216.2	187.5	244.4	262.7
L15	15:21:42	9.8	8.5	51.9	50.7	64.3	70.3	129.6	125.2	224.6	195.1	255.5	273.3
L15	15:22:13	9.8	8.5	52.3	50.3	64.2	70.2	129.0	127.7	223.4	195.1	255.3	272.7
L15	15:23:13	9.9	8.6	52.4	50.2	64.3	70.0	128.7	127.6	223.3	194.2	255.4	273.5
L15	15:25:15	10.0	8.6	52.6	49.9	64.2	70.0	128.3	127.5	222.8	193.0	255.4	274.2
L16	15:27:05	10.4	8.8	53.5	49.8	64.7	70.4	132.2	127.0	227.7	198.1	262.8	282.4
L16	15:27:36	10.3	8.7	53.2	49.5	64.5	70.2	130.2	125.3	226.0	195.8	262.6	281.7
L16	15:28:49	10.3	8.7	53.5	49.7	64.6	70.2	130.1	127.6	225.0	193.4	260.3	279.4
L16A	15:30:44	10.5	8.7	53.3	49.6	64.5	70.2	128.3	125.2	220.8	187.8	254.8	273.8
U1	15:34:48	9.8	8.1	51.8	50.7	63.1	67.9	122.4	116.8	209.2	175.3	236.3	261.5
U2	15:38:56	6.7	4.7	42.4	40.0	49.8	54.0	100.3	94.6	175.6	143.0	191.0	219.7
U3	15:42:45	4.3	2.5	34.3	32.0	41.0	43.3	82.8	77.9	149.8	118.1	160.4	185.6
U4	15:46:42	1.2	0.3	20.4	16.4	23.1	25.8	54.0	49.4	103.0	75.7	109.3	127.5
U5	15:51:06	-0.1	-0.1	15.5	14.2	18.3	20.0	43.1	39.5	85.6	59.3	90.0	105.3
U6	15:55:41	-1.4	-1.2	7.4	6.1	7.4	9.3	18.1	14.9	35.8	20.4	39.2	45.4
U7	16:00:08	-2.5	-2.6	2.0	0.9	2.9	1.7	1.0	-2.1	-3.3	-8.8	4.6	0.5
U7A	16:03:09	-2.6	-2.7	1.4	0.5	2.2	1.4	0.7	-2.3	-3.5	-8.7	4.3	0.1
U7A	16:07:54	-2.7	-2.7	1.1	0.3	1.7	1.1	0.4	-2.5	-3.7	-8.6	3.9	-0.2
U7A	16:22:54	-2.6	-2.7	0.6	0.0	0.9	0.4	-0.2	-2.4	-3.6	-8.3	3.3	0.1
U7A	16:29:51	-2.7	-2.8	0.4	-0.0	0.7	0.2	-0.3	-2.3	-3.6	-8.2	3.9	0.2
		-2.68	-2.83	-0.26	-0.34	-0.30	-0.10	-0.26	-2.45	-3.70	-8.75	-0.02	-0.23
		10.49	8.76	53.54	50.71	64.73	70.44	132.17	127.72	227.71	198.11	262.85	282.39

Table F.31 continued

VIBRATING WIRE CALCULATED STRAIN (4 MINUTE READINGS)

SBZ 4 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 29	VW STRN MICRO STRAIN 30	VW STRN MICRO STRAIN 5	VW STRN MICRO STRAIN 6	VW STRN MICRO STRAIN 37	VW STRN MICRO STRAIN 38	VW STRN MICRO STRAIN 23	VW STRN MICRO STRAIN 24	VW STRN MICRO STRAIN 25	VW STRN MICRO STRAIN 26	VW STRN MICRO STRAIN 27	VW STRN MICRO STRAIN 28
L0	14:03:34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
L1	14:11:17	0.4	0.2	1.5	1.5	3.9	1.6	3.4	3.5	5.8	5.4	12.3	8.4
L2	14:16:43	1.5	0.7	3.9	2.7	7.6	6.5	11.5	11.6	20.7	17.6	29.3	29.3
L3	14:21:48	2.5	2.0	8.4	8.7	12.6	11.6	22.1	22.5	40.4	36.1	51.3	54.8
L4	14:27:10	3.4	2.3	13.2	12.7	17.1	17.3	31.6	32.3	57.7	49.2	69.2	76.2
L5	14:32:20	4.1	2.9	18.0	17.9	21.6	23.1	42.6	42.9	77.2	66.3	90.6	99.7
L6	14:37:54	4.5	3.5	21.7	21.2	25.7	28.2	52.9	53.3	97.5	83.4	111.2	123.8
L7	14:43:33	5.3	4.0	25.6	22.5	32.2	33.0	62.9	63.4	117.4	100.8	133.8	147.0
L8	14:49:01	6.0	4.4	29.4	28.4	35.1	37.8	73.6	73.6	137.5	118.3	154.4	170.4
L9	14:54:17	6.8	5.2	33.5	33.3	40.3	43.4	84.7	84.3	157.3	136.7	177.6	194.4
L10	14:59:29	7.7	6.0	38.4	38.1	47.0	50.6	96.6	96.3	177.3	153.4	198.2	216.9
L11	15:04:32	8.4	6.3	41.6	38.9	51.6	55.3	103.4	102.7	187.3	162.4	209.5	228.6
L12	15:09:30	8.8	6.6	44.9	44.4	55.1	59.4	109.9	109.8	197.3	171.4	221.7	240.5
L13	15:14:52	9.3	6.8	47.8	44.7	59.4	64.2	116.9	115.6	207.0	179.9	233.7	251.9
L14	15:20:04	9.6	7.8	50.2	49.7	61.7	67.8	123.4	120.6	216.2	187.5	244.4	262.7
L15	15:25:15	10.0	8.6	52.6	49.9	64.2	70.0	128.3	127.5	222.8	193.0	255.4	274.2
L16	15:28:49	10.3	8.7	53.5	49.7	64.6	70.2	130.1	127.6	225.0	193.4	260.3	279.4
L16A	15:30:44	10.5	8.7	53.3	49.6	64.5	70.2	128.3	125.2	220.8	187.8	254.8	273.8
U1	15:34:48	9.8	8.1	51.8	50.7	63.1	67.9	122.4	116.8	209.2	175.3	236.3	261.5
U2	15:38:56	6.7	4.7	42.4	40.0	49.8	54.0	100.3	94.6	175.6	143.0	191.0	219.7
U3	15:42:45	4.3	2.5	34.3	32.0	41.0	43.3	82.8	77.9	149.8	118.1	160.4	185.6
U4	15:46:42	1.2	0.3	20.4	16.4	23.1	25.8	54.0	49.4	103.0	75.7	109.3	127.5
U5	15:51:06	-0.1	-0.1	15.5	14.2	18.3	20.0	43.1	39.5	85.6	59.3	90.0	105.3
U6	15:55:41	-1.4	-1.2	7.4	6.1	7.4	9.3	18.1	14.9	35.8	20.4	39.2	45.4
U7	16:00:08	-2.5	-2.6	2.0	0.9	2.9	1.7	1.0	-2.1	-3.3	-8.8	4.6	0.5
U7A	16:03:09	-2.6	-2.7	1.4	0.5	2.2	1.4	0.7	-2.3	-3.5	-8.7	4.3	0.1

Table F.31 continued

AVERAGE STRAIN AT EACH GAGE LEVEL, INTEGRATED PILE COMPRESSION & COMPARISON WITH TELLTALE MEASUREMENT (4 MINUTE READINGS)

SBZ 4 LOAD NUMBER	AVG VW MICRO STRAIN SURFACE	AVG VW MICRO STRAIN 29+30	AVG VW MICRO STRAIN 5+6	AVG VW MICRO STRAIN 37+38	AVG VW MICRO STRAIN 23+24	AVG VW MICRO STRAIN 25+26	AVG VW MICRO STRAIN 27+28	EST'D. MICRO STRAIN CELL TOP	PILE COMPRESSION SG MSMT. INCHES	TT MSMT. INCHES	ABS.DIFF. SG-TT INCHES
L0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0000	0.0000	0.0000
L1	0.0	0.3	1.5	2.7	3.5	5.6	10.3	23.0	0.0023	0.0011	0.0013
L2	0.0	1.1	3.3	7.0	11.5	19.2	29.3	45.8	0.0067	0.0050	0.0017
L3	0.0	2.2	8.5	12.1	22.3	38.2	53.1	68.4	0.0131	0.0096	0.0035
L4	0.0	2.9	12.9	17.2	32.0	53.4	72.7	91.3	0.0184	0.0147	0.0038
L5	0.0	3.5	18.0	22.4	42.8	71.8	95.2	114.0	0.0245	0.0199	0.0046
L6	0.0	4.0	21.5	27.0	53.1	90.4	117.5	136.9	0.0301	0.0251	0.0050
L7	0.0	4.6	24.0	32.6	63.2	109.1	140.4	159.6	0.0357	0.0300	0.0057
L8	0.0	5.2	28.9	36.5	73.6	127.9	162.4	182.5	0.0416	0.0348	0.0068
L9	0.0	6.0	33.4	41.8	84.5	147.0	186.0	205.1	0.0477	0.0401	0.0076
L10	0.0	6.8	38.3	48.8	96.5	165.4	207.5	228.2	0.0541	0.0457	0.0084
L11	0.0	7.4	40.3	53.5	103.0	174.9	219.1	239.4	0.0576	0.0490	0.0086
L12	0.0	7.7	44.7	57.2	109.9	184.3	231.1	251.1	0.0614	0.0521	0.0093
L13	0.0	8.1	46.3	61.8	116.2	193.4	242.8	262.2	0.0646	0.0553	0.0094
L14	0.0	8.7	49.9	64.7	122.0	201.9	253.6	273.7	0.0680	0.0583	0.0097
L15	0.0	9.3	51.3	67.1	127.9	207.9	264.8	284.9	0.0706	0.0606	0.0100
L16	0.0	9.5	51.6	67.4	128.9	209.2	269.9	293.5	0.0713	0.0616	0.0097
L16A	0.0	9.6	51.5	67.3	126.8	204.3	264.3	285.3	0.0702	0.0613	0.0089
U1	0.0	8.9	51.2	65.5	119.6	192.3	248.9	249.3	0.0668	0.0585	0.0083
U2	0.0	5.7	41.2	51.9	97.4	159.3	205.4	195.0	0.0540	0.0481	0.0059
U3	0.0	3.4	33.2	42.2	80.4	133.9	173.0	159.9	0.0443	0.0396	0.0048
U4	0.0	0.7	18.4	24.4	51.7	89.3	118.4	108.0	0.0279	0.0250	0.0029
U5	0.0	-0.1	14.9	19.2	41.3	72.5	97.7	87.6	0.0223	0.0197	0.0026
U6	0.0	-1.3	6.8	8.4	16.5	28.1	42.3	36.8	0.0089	0.0074	0.0015
U7	0.0	-2.5	1.4	2.3	-0.6	-6.0	2.5	-0.3	-0.0006	-0.0002	-0.0004
U7A	0.0	-2.7	1.0	1.8	-0.8	-6.1	2.2	-0.3	-0.0009	-0.0004	-0.0005
ELEV. FT	6.30	-14.63	-36.13	-46.63	-57.63	-68.63	-73.63	-75.13			

Table F.31 continued

VIBRATING WIRE CALCULATED AVERAGE LOADS (4 MINUTE READINGS)

LA = 5.00 ft
LB = 1.50 ft
B = 18.00 in
ES = 27500.0 ksi

ACA = 317.115 si
ACB = 313.155 si
ASA = 3.538 si
ASB = 7.498 si

SBZ 4 LOAD NUMBER	AVG VW LOAD TONS SURFACE	AVG VW LOAD TONS 29+30	AVG VW LOAD TONS 5+6	AVG VW LOAD TONS 37+38	AVG VW LOAD TONS 23+24	AVG VW LOAD TONS 25+26	AVG VW LOAD TONS 27+28	OSTERBERG LOAD TONS BOTTOM	INCR. PILE MODULUS KSI	CALC. PILE A MODULUS KSI	CALC. PILE B MODULUS KSI
L0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0		5140.3	5416.0
L1	0.0	0.25	1.23	2.26	2.90	4.67	9.07	20.2	12060.8	5140.3	5416.0
L2	0.0	0.90	2.77	5.85	9.62	15.97	25.70	40.2	6502.4	5140.3	5416.0
L3	0.0	1.84	7.12	10.09	18.60	31.84	46.59	60.0	5136.3	5140.3	5416.0
L4	0.0	2.38	10.78	14.32	26.61	44.51	63.76	80.1	6339.9	5140.3	5416.0
L5	0.0	2.91	14.96	18.62	35.60	59.78	83.50	100.1	5483.3	5140.3	5416.0
L6	0.0	3.32	17.88	22.46	44.21	75.31	103.08	120.1	5549.9	5140.3	5416.0
L7	0.0	3.86	20.00	27.14	52.59	90.86	123.19	140.0	5359.3	5140.3	5416.0
L8	0.0	4.36	24.05	30.38	61.30	106.50	142.50	160.1	5636.8	5140.3	5416.0
L9	0.0	4.96	27.80	34.84	70.36	122.40	163.18	180.0	5198.2	5140.3	5416.0
L10	0.0	5.67	31.86	40.61	80.33	137.69	182.10	200.2	5799.5	5140.3	5416.0
L11	0.0	6.15	33.53	44.52	85.79	145.62	192.20	210.0	5249.1	5140.3	5416.0
L12	0.0	6.39	37.18	47.66	91.50	153.49	202.78	220.3	5283.2	5140.3	5416.0
L13	0.0	6.72	38.52	51.46	96.78	161.09	213.01	230.0	5121.9	5140.3	5416.0
L14	0.0	7.26	41.57	53.91	101.63	168.10	222.48	240.1	5789.9	5140.3	5416.0
L15	0.0	7.75	42.69	55.87	106.50	173.09	232.32	250.0	5412.1	5140.3	5416.0
L16	0.0	7.91	42.94	56.16	107.32	174.21	236.77	257.5		5140.3	5416.0
L16A	0.0	7.97	42.85	56.07	105.58	170.14	231.88	250.3		5140.3	5416.0
U1	0.0	7.45	42.66	54.55	99.56	160.10	218.39	218.8		5140.3	5416.0
U2	0.0	4.75	34.31	43.23	81.14	132.63	180.20	171.1		5140.3	5416.0
U3	0.0	2.81	27.61	35.10	66.93	111.53	151.80	140.3		5140.3	5416.0
U4	0.0	0.61	15.33	20.35	43.03	74.39	103.88	94.7		5140.3	5416.0
U5	0.0	-0.06	12.37	15.98	34.40	60.34	85.68	76.9		5140.3	5416.0
U6	0.0	-1.05	5.66	6.97	13.71	23.41	37.08	32.3		5140.3	5416.0
U7	0.0	-2.10	1.20	1.90	-0.47	-5.01	2.23	-0.3		5140.3	5416.0
U7A	0.0	-2.21	0.80	1.50	-0.66	-5.09	1.91	-0.3		5140.3	5416.0

ELEV. FT	6.30	-14.63	-36.13	-46.63	-57.63	-68.63	-73.63	-75.13	4945.1 KSI = CONCRETE MODULUS

Table F.31 continued

INTEGRATED MOVEMENT AT VW STRAIN GAGE (4 MINUTE READINGS)

SBZ 4 LOAD NUMBER	VW MOVEMENT INCHES SURFACE	VW MOVEMENT INCHES 29+30	VW MOVEMENT INCHES 5+6	VW MOVEMENT INCHES 37+38	VW MOVEMENT INCHES 23+24	VW MOVEMENT INCHES 25+26	VW MOVEMENT INCHES 27+28	VW MOVEMENT INCHES CELL TOP
L0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L1	0.0017	0.0018	0.0020	0.0023	0.0027	0.0033	0.0037	0.0041
L2	0.0033	0.0034	0.0040	0.0046	0.0058	0.0079	0.0093	0.0100
L3	0.0015	0.0018	0.0032	0.0045	0.0068	0.0108	0.0135	0.0146
L4	0.0012	0.0016	0.0036	0.0055	0.0088	0.0144	0.0182	0.0197
L5	0.0004	0.0008	0.0036	0.0062	0.0104	0.0180	0.0230	0.0249
L6	0.0100	0.0105	0.0138	0.0168	0.0221	0.0316	0.0378	0.0401
L7	0.0143	0.0149	0.0186	0.0221	0.0284	0.0398	0.0473	0.0500
L8	0.0182	0.0189	0.0233	0.0274	0.0346	0.0479	0.0566	0.0598
L9	0.0274	0.0281	0.0332	0.0379	0.0463	0.0615	0.0715	0.0751
L10	0.0366	0.0374	0.0432	0.0487	0.0583	0.0756	0.0868	0.0907
L11	0.0464	0.0473	0.0534	0.0593	0.0697	0.0880	0.0998	0.1040
L12	0.0557	0.0567	0.0634	0.0699	0.0809	0.1003	0.1128	0.1171
L13	0.0656	0.0666	0.0736	0.0804	0.0922	0.1126	0.1257	0.1303
L14	0.0753	0.0763	0.0839	0.0911	0.1035	0.1248	0.1385	0.1433
L15	0.1050	0.1061	0.1139	0.1214	0.1343	0.1564	0.1706	0.1756
L16	0.1553	0.1565	0.1643	0.1718	0.1848	0.2071	0.2215	0.2266
L16A	0.1811	0.1823	0.1901	0.1976	0.2104	0.2323	0.2464	0.2513
U1	0.2017	0.2029	0.2106	0.2180	0.2302	0.2508	0.2640	0.2685
U2	0.2041	0.2048	0.2108	0.2167	0.2266	0.2435	0.2544	0.2581
U3	0.2002	0.2007	0.2054	0.2101	0.2182	0.2323	0.2416	0.2446
U4	0.1971	0.1972	0.1997	0.2024	0.2074	0.2167	0.2229	0.2250
U5	0.1924	0.1924	0.1943	0.1964	0.2004	0.2079	0.2130	0.2147
U6	0.1735	0.1733	0.1740	0.1750	0.1766	0.1796	0.1817	0.1824
U7	0.1604	0.1601	0.1600	0.1602	0.1603	0.1599	0.1598	0.1598
U7A	0.1555	0.1551	0.1549	0.1551	0.1552	0.1547	0.1546	0.1546

Table F.31 continued

INTEGRATED MOVEMENT AT SEGMENT CL (4 MINUTE READINGS)

SBZ 4 LOAD NUMBER CL.ELEV.	AVG VW MOVEMENT INCHES -4.17	AVG VW MOVEMENT INCHES -25.38	AVG VW MOVEMENT INCHES -41.38	AVG VW MOVEMENT INCHES -52.13	AVG VW MOVEMENT INCHES -63.13	AVG VW MOVEMENT INCHES -71.13
L0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L1	0.0018	0.0019	0.0021	0.0025	0.0030	0.0035
L2	0.0033	0.0037	0.0043	0.0052	0.0069	0.0086
L3	0.0017	0.0025	0.0038	0.0056	0.0088	0.0121
L4	0.0014	0.0026	0.0046	0.0071	0.0116	0.0163
L5	0.0006	0.0022	0.0049	0.0083	0.0142	0.0205
L6	0.0102	0.0121	0.0153	0.0195	0.0268	0.0347
L7	0.0146	0.0167	0.0203	0.0253	0.0341	0.0436
L8	0.0185	0.0211	0.0253	0.0310	0.0413	0.0523
L9	0.0277	0.0306	0.0356	0.0421	0.0539	0.0665
L10	0.0370	0.0403	0.0460	0.0535	0.0670	0.0812
L11	0.0468	0.0504	0.0564	0.0645	0.0788	0.0939
L12	0.0562	0.0601	0.0666	0.0754	0.0906	0.1065
L13	0.0661	0.0701	0.0770	0.0863	0.1024	0.1192
L14	0.0758	0.0801	0.0875	0.0973	0.1142	0.1317
L15	0.1055	0.1100	0.1177	0.1278	0.1453	0.1635
L16	0.1559	0.1604	0.1681	0.1783	0.1960	0.2143
L16A	0.1817	0.1862	0.1939	0.2040	0.2214	0.2393
U1	0.2023	0.2068	0.2143	0.2241	0.2405	0.2574
U2	0.2044	0.2078	0.2138	0.2216	0.2350	0.2490
U3	0.2004	0.2030	0.2077	0.2142	0.2253	0.2369
U4	0.1971	0.1984	0.2010	0.2049	0.2120	0.2198
U5	0.1924	0.1933	0.1954	0.1984	0.2042	0.2105
U6	0.1734	0.1737	0.1745	0.1758	0.1781	0.1806
U7	0.1603	0.1600	0.1601	0.1603	0.1601	0.1598
U7A	0.1553	0.1550	0.1550	0.1551	0.1549	0.1546

Table F.31 continued

AVERAGE SEGMENT SHEAR STRESS (4 MINUTE READINGS)

SBZ 4 LOAD NUMBER CL.ELEV.	AVG VW SHEAR TSF -4.17	AVG VW SHEAR TSF -25.38	AVG VW SHEAR TSF -41.38	AVG VW SHEAR TSF -52.13	AVG VW SHEAR TSF -63.13	AVG VW SHEAR TSF -71.13
L0	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016
L1	-0.014	-0.009	0.000	-0.007	0.010	0.130
L2	-0.009	-0.002	0.033	0.041	0.080	0.308
L3	-0.002	0.025	0.031	0.112	0.184	0.475
L4	0.003	0.049	0.040	0.170	0.255	0.626
L5	0.007	0.077	0.042	0.241	0.350	0.774
L6	0.010	0.096	0.056	0.313	0.455	0.909
L7	0.014	0.109	0.097	0.369	0.563	1.061
L8	0.018	0.136	0.084	0.452	0.668	1.183
L9	0.023	0.161	0.095	0.522	0.772	1.343
L10	0.029	0.187	0.122	0.585	0.853	1.464
L11	0.033	0.196	0.158	0.609	0.890	1.536
L12	0.034	0.222	0.150	0.648	0.923	1.627
L13	0.037	0.230	0.189	0.670	0.958	1.714
L14	0.041	0.250	0.179	0.707	0.991	1.796
L15	0.045	0.254	0.193	0.751	0.993	1.958
L16	0.047	0.255	0.193	0.759	0.997	2.069
L16A	0.047	0.254	0.193	0.734	0.962	2.042
U1	0.043	0.257	0.172	0.666	0.901	1.927
U2	0.021	0.213	0.125	0.558	0.764	1.569
U3	0.006	0.176	0.102	0.466	0.659	1.326
U4	-0.012	0.098	0.063	0.327	0.459	0.967
U5	-0.017	0.080	0.041	0.263	0.377	0.828
U6	-0.025	0.036	0.004	0.086	0.130	0.439
U7	-0.033	0.009	-0.005	-0.052	-0.085	0.225
U7A	-0.034	0.007	-0.005	-0.049	-0.083	0.217

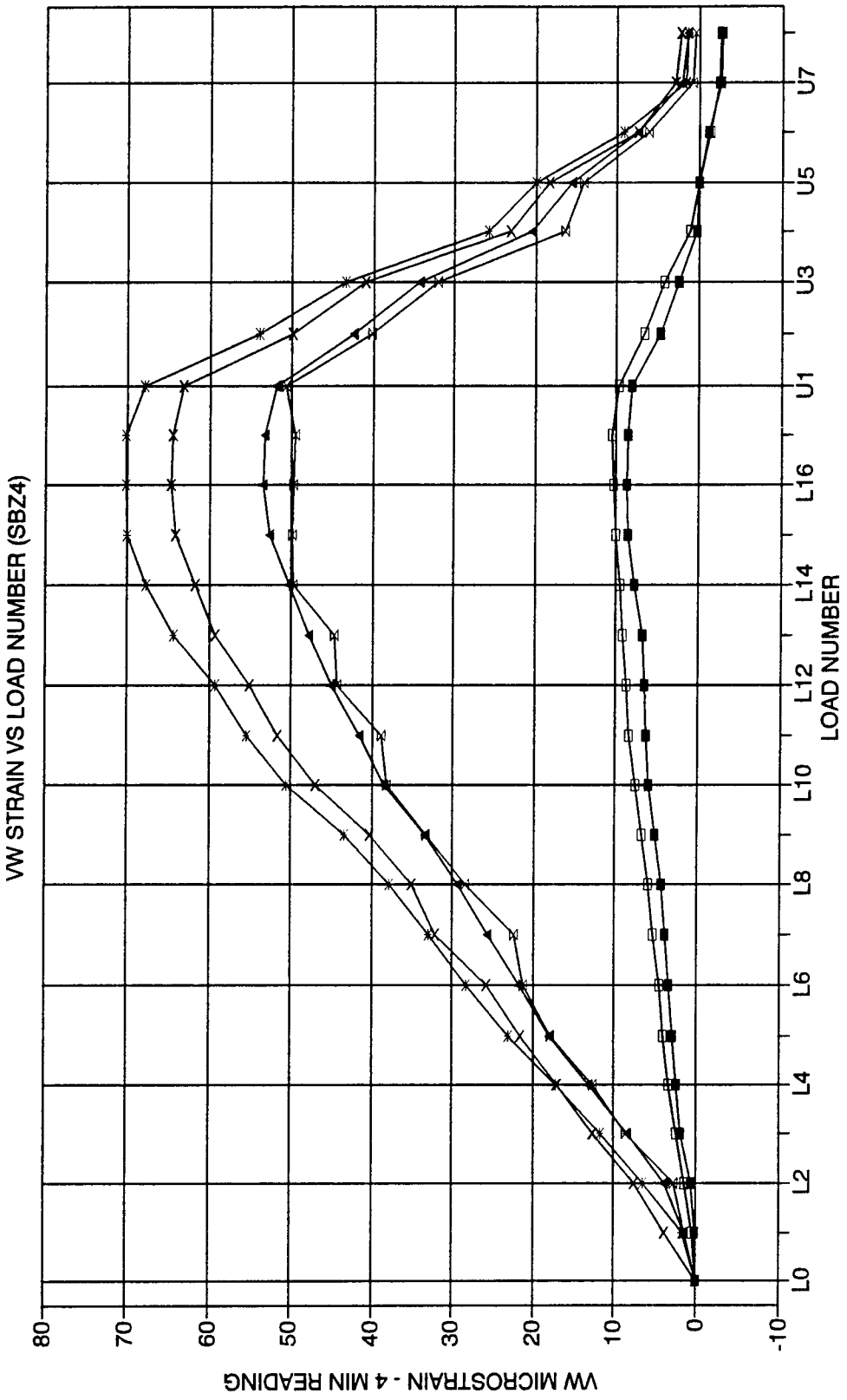

Figure F.163 Strain at Pile Top: Seabreeze Load Test 4

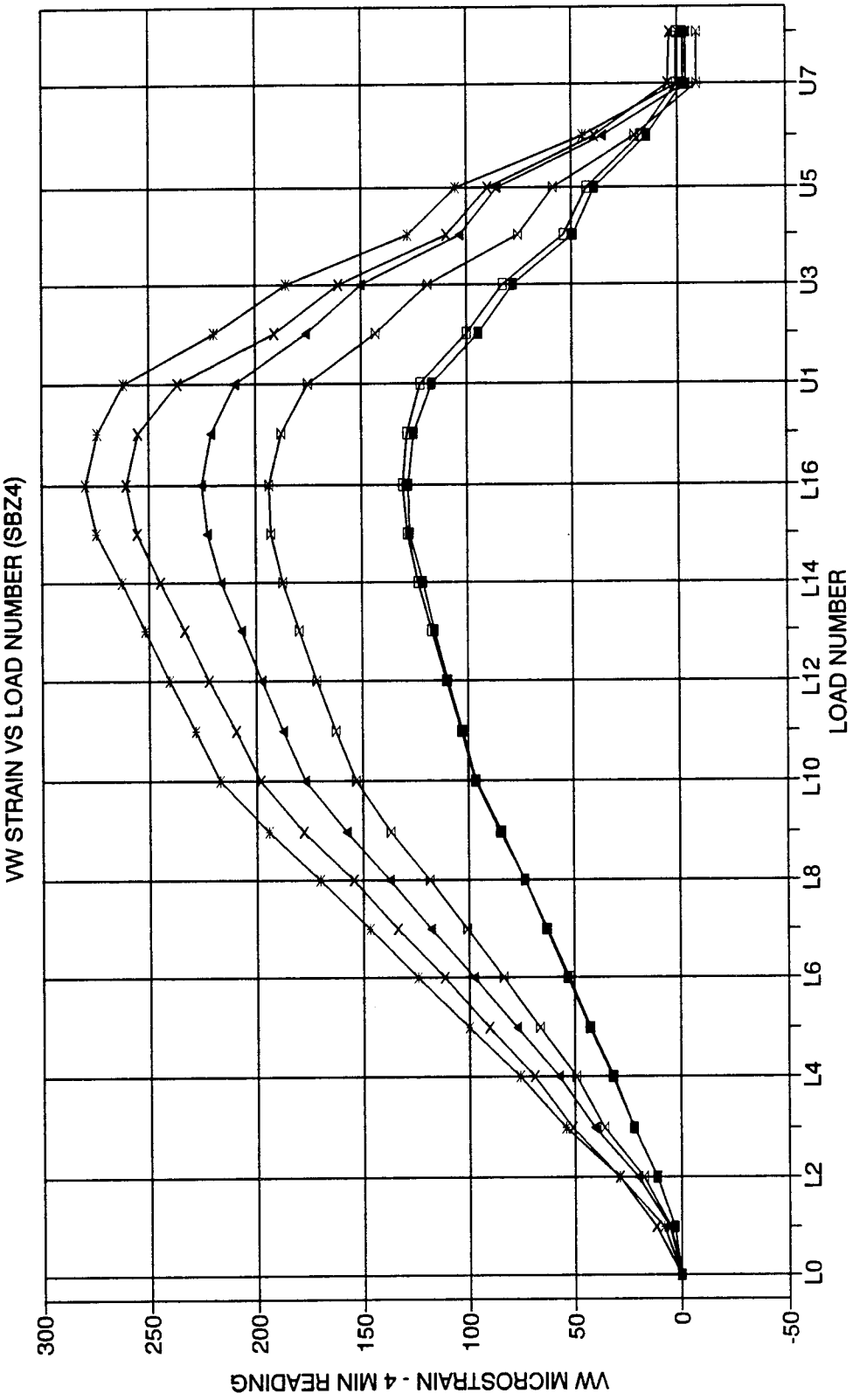

Figure F.164 Strain at Pile Bottom: Seabreeze Load Test 4

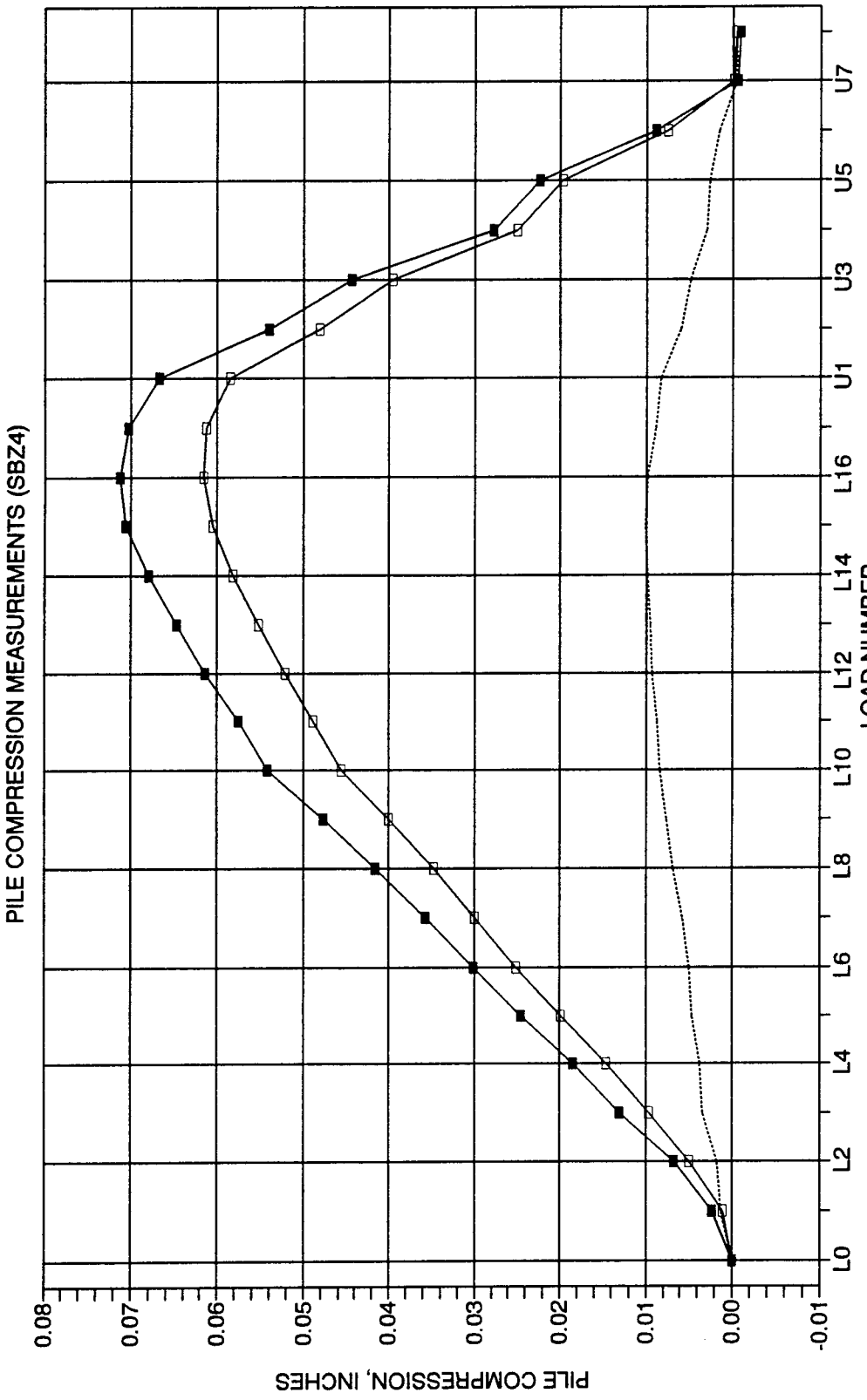

Figure F.165 Pile Compression Measurements: Seabreeze Load Test 4

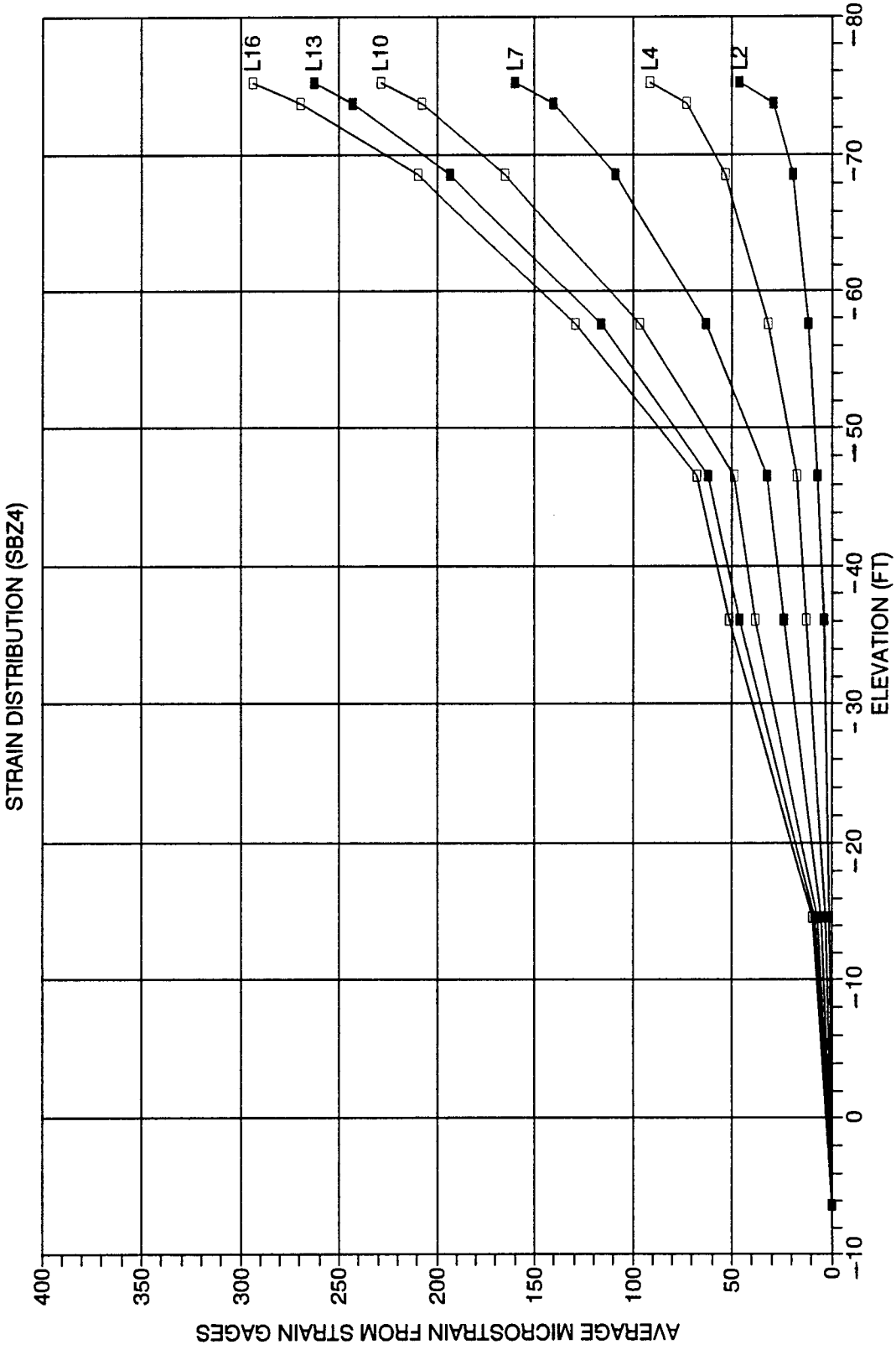

Figure F.166 Pile Strain Distribution: Seabreeze Load Test 4

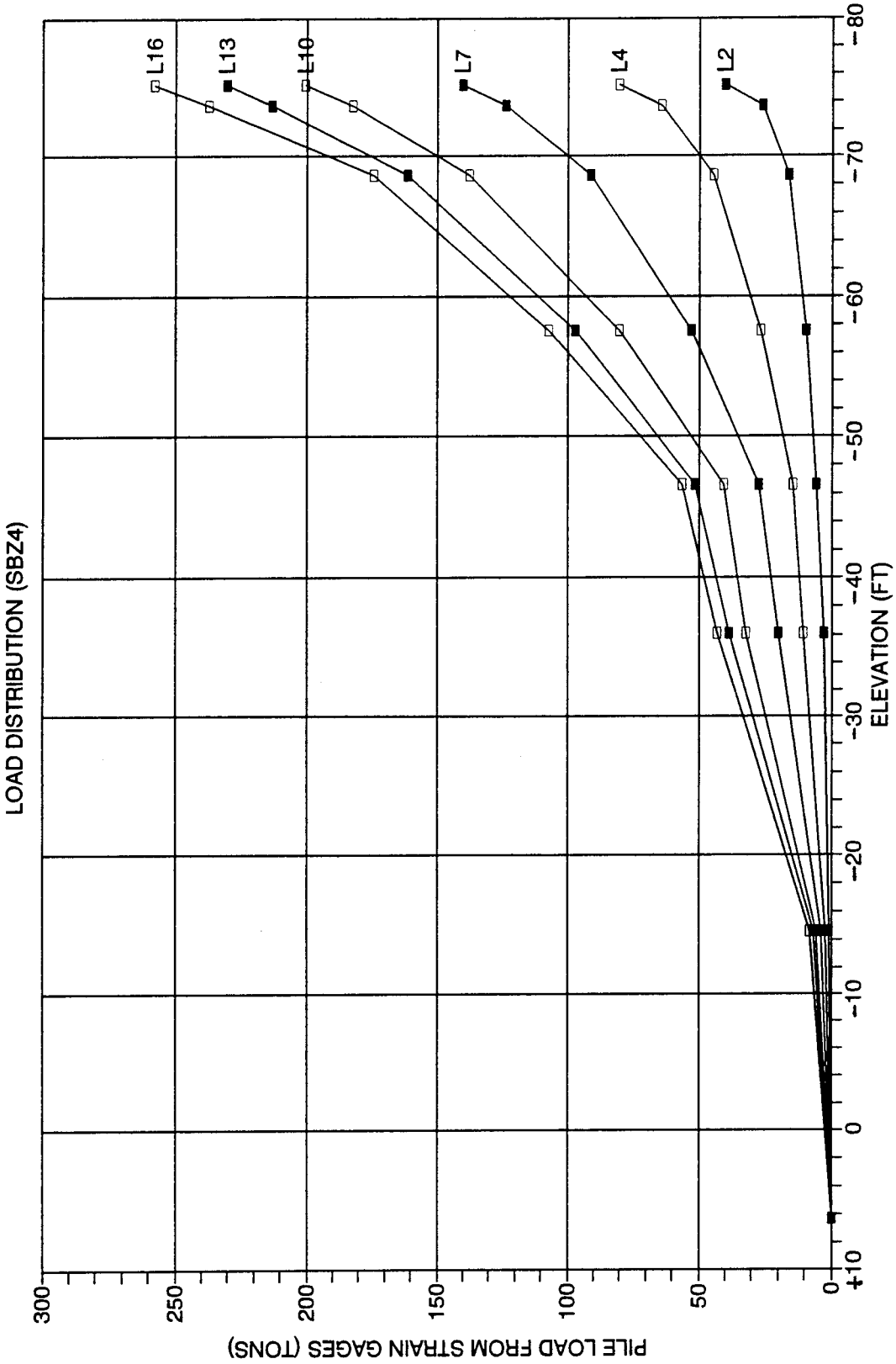

Figure F.167 Pile Load Distribution: Seabreeze Load Test 4

Table F.32 Strain Analyses: Seabreeze Load Test 5

VIBRATING WIRE INSTRUMENT READINGS - STRAIN

SB2 5 LOAD NUMBER	TIME	VW STRN FREQ^2 KHZ^2 29	VW STRN FREQ^2 KHZ^2 30	VW STRN FREQ^2 KHZ^2 5	VW STRN FREQ^2 KHZ^2 6	VW STRN FREQ^2 KHZ^2 37	VW STRN FREQ^2 KHZ^2 38	VW STRN FREQ^2 KHZ^2 23	VW STRN FREQ^2 KHZ^2 24	VW STRN FREQ^2 KHZ^2 25	VW STRN FREQ KHZ^2 26	VW STRN FREQ KHZ^2 27	VW STRN FREQ KHZ^2 28
L0	12:19:05	0.63564	0.75930	0.64718	0.60506	0.69127	0.64634	0.71390	0.63216	0.68015	0.73569	0.86791	0.80086
L0	12:27:13	0.63564	0.75930	0.64718	0.60511	0.69127	0.64635	0.71392	0.63215	0.68015	0.73574	0.86791	0.80087
L0	12:42:13	0.63572	0.75933	0.64722	0.60527	0.69138	0.64639	0.71394	0.63218	0.68023	0.73571	0.86791	0.80089
L0	12:57:13	0.63567	0.75930	0.64721	0.60516	0.69138	0.64639	0.71394	0.63219	0.68019	0.73571	0.86792	0.80088
L0	13:06:31	0.63567	0.75931	0.64722	0.60519	0.69139	0.64639	0.71394	0.63218	0.68021	0.73572	0.86790	0.80089
L0	13:12:18	0.63566	0.75926	0.64722	0.60524	0.69141	0.64639	0.71394	0.63219	0.68020	0.73572	0.86794	0.80089
L1	13:13:55	0.63542	0.75918	0.64675	0.60462	0.69122	0.64566	0.71335	0.63114	0.67832	0.73393	0.86463	0.79842
L1	13:14:25	0.63542	0.75918	0.64674	0.60466	0.69120	0.64565	0.71272	0.63113	0.67828	0.73390	0.86462	0.79842
L1	13:15:25	0.63541	0.75917	0.64673	0.60466	0.69120	0.64565	0.71263	0.63111	0.67826	0.73391	0.86457	0.79835
L1	13:17:26	0.63540	0.75917	0.64672	0.60467	0.69119	0.64564	0.71261	0.63110	0.67826	0.73390	0.86456	0.79831
L2	13:19:25	0.63513	0.75880	0.64574	0.60406	0.68971	0.64429	0.71054	0.62860	0.67345	0.73003	0.85928	0.79232
L2	13:19:55	0.63517	0.75881	0.64572	0.60405	0.68970	0.64427	0.71049	0.62858	0.67343	0.72998	0.85926	0.79229
L2	13:20:55	0.63517	0.75881	0.64569	0.60403	0.68969	0.64425	0.71039	0.62858	0.67340	0.72993	0.85923	0.79226
L2	13:22:55	0.63517	0.75881	0.64566	0.60401	0.68966	0.64422	0.71035	0.62856	0.67337	0.72989	0.85918	0.79221
L3	13:24:33	0.63469	0.75837	0.64441	0.60211	0.68817	0.64264	0.70783	0.62571	0.66816	0.72544	0.85370	0.78563
L3	13:25:02	0.63468	0.75838	0.64439	0.60208	0.68817	0.64263	0.70780	0.62569	0.66811	0.72535	0.85367	0.78556
L3	13:26:03	0.63468	0.75838	0.64437	0.60205	0.68814	0.64259	0.70773	0.62566	0.66805	0.72534	0.85362	0.78545
L3	13:28:03	0.63467	0.75837	0.64433	0.60203	0.68811	0.64254	0.70761	0.62560	0.66792	0.72535	0.85355	0.78536
L4	13:29:46	0.63438	0.75794	0.64278	0.60094	0.68656	0.64093	0.70437	0.62263	0.66239	0.71984	0.84766	0.77872
L4	13:30:17	0.63437	0.75794	0.64278	0.60084	0.68652	0.64089	0.70432	0.62258	0.66234	0.71982	0.84762	0.77869
L4	13:31:15	0.63436	0.75791	0.64268	0.60076	0.68648	0.64084	0.70424	0.62253	0.66233	0.71979	0.84759	0.77866
L4	13:33:15	0.63434	0.75789	0.64268	0.60069	0.68635	0.64074	0.70417	0.62246	0.66221	0.72007	0.84747	0.77855
L5	13:34:56	0.63383	0.75753	0.64126	0.60047	0.68485	0.63913	0.70103	0.61946	0.65645	0.71545	0.84157	0.77182
L5	13:35:27	0.63382	0.75752	0.64122	0.60003	0.68485	0.63907	0.70107	0.61941	0.65629	0.71537	0.84151	0.77179
L5	13:36:27	0.63382	0.75752	0.64115	0.59932	0.68485	0.63901	0.70112	0.61938	0.65624	0.71537	0.84151	0.77181
L5	13:38:29	0.63379	0.75752	0.64109	0.59803	0.68483	0.63893	0.70107	0.61927	0.65617	0.71518	0.84137	0.77153
L6	13:40:13	0.63335	0.75724	0.63975	0.59793	0.68291	0.63734	0.69788	0.61617	0.65042	0.71012	0.83566	0.76501
L6	13:40:43	0.63338	0.75723	0.63970	0.59786	0.68337	0.63729	0.69788	0.61611	0.65033	0.71011	0.83566	0.76499
L6	13:41:48	0.63333	0.75721	0.63967	0.59776	0.68334	0.63723	0.69787	0.61605	0.65027	0.71011	0.83562	0.76492
L6	13:43:45	0.63336	0.75722	0.63964	0.59764	0.68326	0.63713	0.69779	0.61599	0.65015	0.71004	0.83546	0.76460
L7	13:45:26	0.63317	0.75704	0.63846	0.59665	0.68142	0.63583	0.69471	0.61303	0.64428	0.70495	0.82901	0.75798
L7	13:45:56	0.63317	0.75704	0.63843	0.59664	0.68137	0.63579	0.69466	0.61301	0.64426	0.70493	0.82899	0.75773
L7	13:46:55	0.63315	0.75704	0.63835	0.59674	0.68180	0.63567	0.69458	0.61294	0.64419	0.70490	0.82896	0.75775
L7	13:48:55	0.63315	0.75702	0.63833	0.59676	0.68176	0.63556	0.69449	0.61281	0.64403	0.70486	0.82888	0.75761
L8	13:50:33	0.63285	0.75673	0.63733	0.59530	0.68008	0.63438	0.69169	0.60990	0.63832	0.69985	0.82286	0.75096
L8	13:51:04	0.63284	0.75672	0.63726	0.59530	0.67990	0.63431	0.69162	0.60984	0.63823	0.69978	0.82275	0.75089
L8	13:52:04	0.63283	0.75672	0.63720	0.59565	0.67974	0.63425	0.69150	0.60979	0.63803	0.69969	0.82265	0.75080
L8	13:54:03	0.63280	0.75671	0.63715	0.59576	0.68012	0.63401	0.69109	0.60972	0.63781	0.69945	0.82245	0.75062
L9	13:55:43	0.63240	0.75657	0.63612	0.59418	0.67890	0.63265	0.68814	0.60682	0.63220	0.69467	0.81654	0.74415
L9	13:56:15	0.63239	0.75654	0.63606	0.59406	0.67874	0.63254	0.68806	0.60673	0.63211	0.69459	0.81654	0.74404
L9	13:57:12	0.63241	0.75657	0.63594	0.59395	0.67867	0.63243	0.68798	0.60656	0.63204	0.69458	0.81647	0.74399
L9	13:59:13	0.63242	0.75654	0.63581	0.59384	0.67850	0.63234	0.68795	0.60638	0.63197	0.69438	0.81596	0.74388
L10	14:01:09	0.63228	0.75644	0.63465	0.59328	0.67698	0.63070	0.68475	0.60346	0.62608	0.68938	0.80990	0.73712

Table F.32 continued

VIBRATING WIRE INSTRUMENT READINGS - STRAIN

SBZ 5 LOAD NUMBER	TIME	VW STRN FREQ^2 KHZ^2 29	VW STRN FREQ^2 KHZ^2 30	VW STRN FREQ^2 KHZ^2 5	VW STRN FREQ^2 KHZ^2 6	VW STRN FREQ^2 KHZ^2 37	VW STRN FREQ^2 KHZ^2 38	VW STRN FREQ^2 KHZ^2 23	VW STRN FREQ^2 KHZ^2 24	VW STRN FREQ^2 KHZ^2 25	VW STRN FREQ KHZ^2 26	VW STRN FREQ KHZ^2 27	VW STRN FREQ KHZ^2 28
L10	14:01:39	0.63227	0.75644	0.63463	0.59321	0.67688	0.63063	0.68460	0.60334	0.62597	0.68934	0.80997	0.73714
L10	14:02:41	0.63225	0.75644	0.63448	0.59310	0.67681	0.63046	0.68456	0.60329	0.62599	0.68931	0.80985	0.73700
L10	14:04:38	0.63224	0.75644	0.63431	0.59247	0.67664	0.63020	0.68465	0.60315	0.62568	0.68916	0.80963	0.73677
L11	14:06:32	0.63169	0.75622	0.63293	0.59149	0.67452	0.62840	0.68108	0.59891	0.61996	0.68408	0.80349	0.73039
L11	14:07:02	0.63166	0.75621	0.63289	0.59141	0.67483	0.62828	0.68100	0.59892	0.61998	0.68415	0.80350	0.73026
L11	14:08:02	0.63165	0.75619	0.63266	0.59125	0.67463	0.62807	0.68090	0.59925	0.61987	0.68401	0.80331	0.73023
L11	14:10:04	0.63161	0.75619	0.63248	0.59120	0.67453	0.62788	0.68084	0.59932	0.61984	0.68396	0.80320	0.73017
L12	14:11:38	0.63172	0.75599	0.63188	0.58995	0.67315	0.62697	0.67926	0.59688	0.61686	0.68151	0.79992	0.72667
L12	14:12:09	0.63172	0.75598	0.63168	0.58995	0.67304	0.62690	0.67931	0.59687	0.61688	0.68154	0.80011	0.72696
L12	14:13:08	0.63165	0.75598	0.63157	0.58982	0.67358	0.62666	0.67869	0.59690	0.61683	0.68150	0.79977	0.72660
L12	14:15:12	0.63172	0.75597	0.63146	0.58966	0.67336	0.62647	0.67858	0.59696	0.61671	0.68149	0.79990	0.72681
L12A	14:19:08	0.63170	0.75593	0.63123	0.58961	0.67307	0.62627	0.67841	0.59741	0.61668	0.68150	0.79986	0.72678
L13	14:20:57	0.63155	0.75573	0.63066	0.58902	0.67182	0.62528	0.67681	0.59481	0.61403	0.67870	0.79632	0.72341
L13	14:21:25	0.63152	0.75570	0.63055	0.58907	0.67163	0.62522	0.67677	0.59481	0.61400	0.67869	0.79635	0.72332
L13	14:22:31	0.63152	0.75571	0.63050	0.58904	0.67160	0.62516	0.67678	0.59483	0.61413	0.67914	0.79644	0.72393
L13	14:24:31	0.63148	0.75569	0.63038	0.58870	0.67213	0.62499	0.67642	0.59466	0.61390	0.67870	0.79623	0.72341
L14	14:26:31	0.63113	0.75551	0.62958	0.58788	0.67060	0.62405	0.67483	0.59285	0.61123	0.67637	0.79301	0.72019
L14	14:27:00	0.63111	0.75551	0.62954	0.58783	0.67049	0.62394	0.67464	0.59277	0.61115	0.67635	0.79313	0.72028
L14	14:27:58	0.63109	0.75550	0.62949	0.58772	0.67031	0.62377	0.67454	0.59269	0.61107	0.67640	0.79315	0.72023
L14	14:30:00	0.63103	0.75549	0.62945	0.58751	0.67055	0.62351	0.67429	0.59257	0.61091	0.67635	0.79305	0.72004
L15	14:31:32	0.63094	0.75533	0.62872	0.58691	0.66978	0.62267	0.67242	0.59087	0.60809	0.67386	0.79007	0.71693
L15	14:32:03	0.63094	0.75532	0.62870	0.58692	0.66975	0.62258	0.67234	0.59089	0.60809	0.67390	0.79003	0.71700
L15	14:33:07	0.63088	0.75529	0.62857	0.58690	0.66972	0.62244	0.67216	0.59073	0.60800	0.67387	0.79001	0.71690
L15	14:35:02	0.63089	0.75525	0.62846	0.58674	0.66955	0.62223	0.67212	0.59067	0.60803	0.67397	0.78995	0.71689
L16	14:36:50	0.63054	0.75498	0.62781	0.58591	0.66894	0.62121	0.67047	0.58921	0.60578	0.67166	0.78696	0.71368
L16	14:37:15	0.63047	0.75494	0.62774	0.58577	0.66875	0.62118	0.67046	0.58926	0.60580	0.67166	0.78695	0.71362
L16	14:38:17	0.63029	0.75486	0.62765	0.58564	0.66875	0.62130	0.67048	0.58943	0.60582	0.67176	0.78698	0.71358
L16	14:40:15	0.63011	0.75480	0.62749	0.58554	0.66875	0.62126	0.67049	0.58966	0.60573	0.67233	0.78697	0.71341
L17	14:42:43	0.62998	0.75454	0.62703	0.58498	0.66823	0.62087	0.66951	0.58869	0.60398	0.67145	0.78566	0.71153
L17	14:43:44	0.62998	0.75456	0.62696	0.58493	0.66820	0.62082	0.66943	0.58886	0.60385	0.67169	0.78585	0.71143
L17	14:45:42	0.62983	0.75426	0.62676	0.58489	0.66811	0.62062	0.66917	0.58911	0.60374	0.67204	0.78589	0.71076
L18	14:47:35	0.62958	0.75384	0.62618	0.58428	0.66697	0.61991	0.66753	0.58859	0.65214	0.67230	0.78447	0.70905
L18	14:48:06	0.62962	0.75382	0.62613	0.58428	0.66685	0.61976	0.66727	0.58857	0.60119	0.67302	0.78438	0.70903
L18	14:49:11	0.62958	0.75390	0.62592	0.58421	0.66656	0.61935	0.66649	0.58899	0.60139	0.67491	0.78565	0.71000
L18	14:50:33	0.62959	0.75390	0.62553	0.58387	0.66642	0.61871	0.66563	0.59006	0.59963	0.67684	0.78710	0.71196
U0	14:52:03	0.62969	0.75419	0.62595	0.58430	0.66738	0.61953	0.66788	0.59254	0.60495	0.68180	0.79326	0.71836
U1	14:55:16	0.62991	0.75442	0.62616	0.58456	0.66806	0.61988	0.66922	0.59413	0.60702	0.68358	0.79622	0.72101
U2	15:00:07	0.63164	0.75625	0.63192	0.59080	0.67550	0.62784	0.68141	0.60579	0.62485	0.70069	0.81871	0.74143
U3	15:04:45	0.63310	0.75720	0.63574	0.59451	0.68001	0.63256	0.68873	0.61325	0.63628	0.71079	0.83085	0.75492
U4	15:08:45	0.63383	0.75782	0.63852	0.59756	0.68337	0.63607	0.69431	0.61854	0.64509	0.71832	0.83992	0.76510
U5	15:12:49	0.63466	0.75848	0.64244	0.60186	0.68682	0.64074	0.70261	0.62657	0.66025	0.73016	0.85399	0.78195
U6	15:17:22	0.63516	0.75914	0.64489	0.60355	0.69048	0.64409	0.71012	0.63340	0.67603	0.74011	0.86748	0.79887
U6A	15:19:54	0.63512	0.75917	0.64512	0.60355	0.69055	0.64423	0.71050	0.63349	0.67618	0.74006	0.86759	0.79902

Table F.32 continued

VIBRATING WIRE INSTRUMENT READINGS - TEMPERATURE

SBZ 5 LOAD NUMBER	TIME	VW STRN TEMP DEG C 29	VW STRN TEMP DEG C 30	VW STRN TEMP DEG C 5	VW STRN TEMP DEG C 6	VW STRN TEMP DEG C 37	VW STRN TEMP DEG C 38	VW STRN TEMP DEG C 23	VW STRN TEMP DEG C 24	VW STRN TEMP DEG C 25	VW STRN TEMP DEG C 26	VW STRN TEMP DEG C 27	VW STRN TEMP DEG C 28
L0	12:19:05	23.270	23.939	22.266	22.703	23.556	22.422	22.578	23.333	22.515	23.492	21.770	23.017
L0	12:27:13	23.299	23.937	22.264	22.669	23.585	22.388	22.575	23.299	22.513	23.490	21.768	23.015
L0	12:42:13	23.266	23.935	22.262	22.668	23.552	22.418	22.574	23.329	22.480	23.488	21.797	23.013
L0	12:57:13	23.265	23.935	22.261	22.698	23.583	22.417	22.542	23.329	22.511	23.456	21.766	22.981
L0	13:06:31	23.297	23.934	22.292	22.698	23.583	22.417	22.573	23.297	22.511	23.487	21.797	22.981
L0	13:12:18	23.265	23.934	22.261	22.698	23.583	22.417	22.542	23.329	22.511	23.487	21.766	23.013
L1	13:13:55	23.265	23.902	22.292	22.698	23.583	22.386	22.573	23.297	22.479	23.456	21.797	23.013
L1	13:14:25	23.297	23.934	22.261	22.698	23.583	22.417	22.573	23.297	22.511	23.487	21.766	23.013
L1	13:15:25	23.265	23.902	22.292	22.730	23.551	22.417	22.604	23.329	22.479	23.487	21.797	23.013
L1	13:17:26	23.297	23.966	22.292	22.730	23.551	22.417	22.604	23.329	22.479	23.487	21.797	23.013
L2	13:19:25	23.265	23.966	22.292	22.667	23.551	22.417	22.573	23.329	22.479	23.487	21.796	23.044
L2	13:19:55	23.265	23.934	22.292	22.730	23.583	22.386	22.604	23.329	22.511	23.456	21.796	23.012
L2	13:20:55	23.265	23.966	22.292	22.698	23.583	22.417	22.604	23.297	22.511	23.487	21.796	23.012
L2	13:22:55	23.297	23.966	22.292	22.698	23.583	22.417	22.604	23.297	22.511	23.487	21.797	22.981
L3	13:24:33	23.297	23.934	22.261	22.730	23.583	22.417	22.573	23.329	22.511	23.487	21.766	23.013
L3	13:25:02	23.297	23.934	22.292	22.730	23.551	22.417	22.604	23.329	22.479	23.487	21.797	23.044
L3	13:26:03	23.265	23.934	22.261	22.730	23.551	22.386	22.604	23.329	22.511	23.456	21.797	23.044
L3	13:28:03	23.297	23.934	22.292	22.730	23.583	22.386	22.604	23.329	22.511	23.456	21.796	23.013
L4	13:29:46	23.297	23.934	22.261	22.730	23.583	22.417	22.573	23.329	22.511	23.487	21.766	23.044
L4	13:30:17	23.297	23.934	22.261	22.730	23.583	22.417	22.575	23.331	22.513	23.489	21.768	23.046
L4	13:31:15	23.299	23.937	22.263	22.732	23.585	22.388	22.606	23.331	22.513	23.458	21.799	23.046
L4	13:33:15	23.299	23.937	22.294	22.732	23.585	22.387	22.606	23.330	22.512	23.457	21.798	23.046
L5	13:34:56	23.299	23.936	22.294	22.700	23.584	22.419	22.606	23.299	22.512	23.489	21.798	23.014
L5	13:35:27	23.299	23.936	22.294	22.700	23.584	22.419	22.606	23.299	22.512	23.489	21.798	23.014
L5	13:36:27	23.267	23.936	22.294	22.700	23.584	22.387	22.606	23.330	22.512	23.457	21.798	23.045
L5	13:38:29	23.267	23.936	22.294	22.731	23.552	22.418	22.606	23.330	22.481	23.489	21.798	23.045
L6	13:40:13	23.266	23.968	22.262	22.731	23.552	22.387	22.605	23.330	22.480	23.488	21.798	23.045
L6	13:40:43	23.298	23.935	22.293	22.731	23.584	22.387	22.605	23.330	22.512	23.457	21.798	23.045
L6	13:41:48	23.266	23.935	22.293	22.731	23.584	22.387	22.605	23.330	22.512	23.457	21.798	23.045
L6	13:43:45	23.298	23.967	22.262	22.730	23.584	22.418	22.574	23.329	22.511	23.488	21.766	23.045
L7	13:45:26	23.266	23.967	22.262	22.730	23.552	22.418	22.605	23.329	22.480	23.488	21.797	23.045
L7	13:45:56	23.298	23.967	22.293	22.730	23.552	22.418	22.605	23.329	22.511	23.456	21.797	23.045
L7	13:46:55	23.298	23.967	22.293	22.699	23.583	22.418	22.605	23.298	22.511	23.488	21.797	23.013
L7	13:48:55	23.297	23.967	22.293	22.699	23.583	22.417	22.605	23.297	22.511	23.488	21.797	23.013
L8	13:50:33	23.297	23.967	22.262	22.730	23.583	22.417	22.574	23.329	22.511	23.488	21.766	23.045
L8	13:51:04	23.297	23.967	22.293	22.699	23.583	22.417	22.605	23.297	22.511	23.488	21.797	23.013
L8	13:52:04	23.297	23.967	22.293	22.730	23.583	22.386	22.605	23.329	22.511	23.488	21.797	23.044
L8	13:54:03	23.297	23.935	22.293	22.730	23.583	22.386	22.605	23.329	22.511	23.456	21.797	23.044
L9	13:55:43	23.297	23.935	22.293	22.699	23.583	22.417	22.605	23.297	22.511	23.488	21.797	23.013
L9	13:56:15	23.297	23.967	22.293	22.699	23.583	22.417	22.605	23.297	22.511	23.488	21.797	23.013
L9	13:57:12	23.297	23.967	22.293	22.698	23.583	22.417	22.605	23.297	22.511	23.488	21.797	23.013
L9	13:59:13	23.265	23.967	22.261	22.730	23.583	22.417	22.573	23.329	22.511	23.488	21.766	23.044
L10	14:01:09	23.265	23.967	22.292	22.730	23.551	22.417	22.604	23.329	22.479	23.487	21.797	23.044

Table F.32 continued

VIBRATING WIRE INSTRUMENT READINGS - TEMPERATURE

SBZ 5 LOAD NUMBER	TIME	VW STRN TEMP DEG C 29	VW STRN TEMP DEG C 30	VW STRN TEMP DEG C 5	VW STRN TEMP DEG C 6	VW STRN TEMP DEG C 37	VW STRN TEMP DEG C 38	VW STRN TEMP DEG C 23	VW STRN TEMP DEG C 24	VW STRN TEMP DEG C 25	VW STRN TEMP DEG C 26	VW STRN TEMP DEG C 27	VW STRN TEMP DEG C 28
L10	14:01:39	23.297	23.935	22.292	22.730	23.583	22.386	22.604	23.329	22.511	23.487	21.797	23.044
L10	14:02:41	23.297	23.967	22.261	22.730	23.583	22.417	22.573	23.329	22.511	23.487	21.766	23.044
L10	14:04:38	23.297	23.967	22.292	22.730	23.551	22.417	22.604	23.329	22.479	23.487	21.797	23.044
L11	14:06:32	23.297	23.967	22.292	22.698	23.583	22.417	22.604	23.297	22.511	23.519	21.797	23.013
L11	14:07:02	23.297	23.967	22.292	22.730	23.551	22.417	22.604	23.329	22.479	23.487	21.797	23.044
L11	14:08:02	23.297	23.967	22.261	22.730	23.583	22.417	22.573	23.329	22.511	23.487	21.766	23.044
L11	14:10:04	23.297	23.967	22.261	22.730	23.551	22.386	22.604	23.329	22.511	23.456	21.797	23.044
L12	14:11:38	23.297	23.966	22.261	22.730	23.583	22.417	22.573	23.329	22.511	23.519	21.766	23.044
L12	14:12:09	23.297	23.966	22.261	22.730	23.583	22.417	22.573	23.329	22.511	23.519	21.766	23.044
L12	14:13:08	23.297	23.966	22.292	22.730	23.583	22.386	22.636	23.329	22.511	23.487	21.797	23.044
L12	14:15:12	23.297	23.966	22.292	22.698	23.583	22.417	22.604	23.297	22.511	23.487	21.797	23.013
L12A	14:19:08	23.265	23.966	22.261	22.698	23.583	22.386	22.573	23.329	22.511	23.456	21.796	23.044
L13	14:20:57	23.265	23.966	22.261	22.730	23.583	22.417	22.573	23.329	22.511	23.487	21.766	23.044
L13	14:21:25	23.265	23.934	22.261	22.730	23.551	22.417	22.604	23.297	22.479	23.519	21.766	23.044
L13	14:22:31	23.297	23.966	22.292	22.698	23.583	22.417	22.604	23.297	22.511	23.519	21.797	23.013
L13	14:24:31	23.297	23.966	22.292	22.698	23.583	22.417	22.604	23.297	22.511	23.456	21.797	23.012
L14	14:26:31	23.297	23.966	22.292	22.698	23.583	22.417	22.604	23.297	22.511	23.487	21.797	23.013
L14	14:27:00	23.297	23.966	22.292	22.730	23.583	22.386	22.604	23.329	22.511	23.455	21.797	23.044
L14	14:27:58	23.297	23.966	22.292	22.730	23.551	22.417	22.604	23.329	22.479	23.519	21.797	23.044
L14	14:30:00	23.297	23.966	22.292	22.698	23.583	22.417	22.604	23.297	22.511	23.519	21.797	23.013
L15	14:31:32	23.297	23.966	22.292	22.730	23.583	22.386	22.636	23.329	22.511	23.456	21.797	23.044
L15	14:32:03	23.297	23.937	22.294	22.700	23.585	22.388	22.638	23.331	22.513	23.489	21.799	23.046
L15	14:33:07	23.299	23.937	22.294	22.700	23.553	22.388	22.638	23.331	22.513	23.489	21.799	23.046
L15	14:35:02	23.299	23.968	22.294	22.731	23.553	22.419	22.637	23.330	22.481	23.521	21.798	23.046
L16	14:36:50	23.299	23.968	22.263	22.731	23.585	22.419	22.606	23.330	22.512	23.521	21.767	23.046
L16	14:37:15	23.299	23.936	22.294	22.731	23.585	22.387	22.637	23.330	22.512	23.489	21.798	23.046
L16	14:38:17	23.298	23.968	22.263	22.700	23.584	22.418	22.606	23.330	22.512	23.520	21.767	23.045
L16	14:40:15	23.267	23.936	22.294	22.700	23.584	22.418	22.637	23.298	22.512	23.520	21.798	23.014
L17	14:42:43	23.266	23.935	22.293	22.731	23.584	22.387	22.605	23.330	22.512	23.488	21.798	23.045
L17	14:43:44	23.298	23.935	22.293	22.701	23.586	22.420	22.639	23.300	22.513	23.490	21.799	23.015
L17	14:45:42	23.300	23.969	22.295	22.733	23.554	22.420	22.639	23.332	22.482	23.490	21.799	23.047
L18	14:47:35	23.299	23.969	22.264	22.701	23.585	22.419	22.638	23.299	22.513	23.521	21.799	23.015
L18	14:48:06	23.299	23.969	22.264	22.732	23.553	22.419	22.638	23.331	22.482	23.490	21.799	23.046
L18	14:49:11	23.268	23.937	22.295	22.701	23.585	22.419	22.607	23.299	22.513	23.521	21.799	23.015
L18	14:50:33	23.267	23.968	22.263	22.731	23.585	22.419	22.606	23.330	22.512	23.489	21.767	23.046
U0	14:52:03	23.299	23.936	22.263	22.731	23.553	22.388	22.637	23.330	22.512	23.457	21.798	23.046
U1	14:55:16	23.267	23.936	22.294	22.731	23.584	22.387	22.637	23.330	22.512	23.491	21.769	23.047
U2	15:00:07	23.300	23.969	22.295	22.701	23.585	22.419	22.607	23.300	22.513	23.490	21.799	23.015
U3	15:04:45	23.269	23.938	22.296	22.702	23.555	22.421	22.608	23.332	22.483	23.491	21.769	23.048
U4	15:08:45	23.270	23.972	22.297	22.703	23.556	22.422	22.609	23.334	22.484	23.493	21.801	23.018
U5	15:12:49	23.303	23.973	22.267	22.704	23.589	22.423	22.579	23.335	22.517	23.494	21.773	23.020
U6	15:17:22	23.305	23.942	22.269	22.706	23.591	22.425	22.581	23.336	22.518	23.495	21.773	23.020
U6A	15:19:54	23.305	23.943	22.269	22.707	23.591	22.425	22.581	23.337	22.519	23.496	21.774	23.021

Table F.32 continued

VIBRATING WIRE CALCULATED STRAIN

SBZ 5 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 29	VW STRN MICRO STRAIN 30	VW STRN MICRO STRAIN 5	VW STRN MICRO STRAIN 6	VW STRN MICRO STRAIN 37	VW STRN MICRO STRAIN 38	VW STRN MICRO STRAIN 23	VW STRN MICRO STRAIN 24	VW STRN MICRO STRAIN 25	VW STRN MICRO STRAIN 26	VW STRN MICRO STRAIN 27	VW STRN MICRO STRAIN 28
L0	12:19:05	0.1	-0.1	0.1	0.6	0.5	0.2	0.1	0.1	0.2	0.1	0.1	0.1
L0	12:27:13	0.0	-0.1	0.1	0.5	0.5	0.2	0.0	0.2	0.2	-0.1	0.1	0.1
L0	12:42:13	-0.2	-0.2	-0.0	-0.1	0.1	-0.0	-0.0	0.0	-0.1	0.0	0.1	0.0
L0	12:57:13	-0.0	-0.1	0.0	0.3	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.1
L0	13:06:31	-0.1	-0.2	-0.0	0.2	0.1	0.0	-0.0	0.1	-0.0	0.0	0.1	0.0
L0	13:12:18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
L1	13:13:55	0.8	0.3	1.5	2.0	0.6	2.5	1.9	3.5	6.3	6.0	10.9	8.2
L1	13:14:25	0.8	0.3	1.6	1.9	0.7	2.4	4.0	3.5	6.3	6.0	11.0	8.2
L1	13:15:25	0.8	0.3	1.6	1.9	0.7	2.4	4.2	3.6	6.5	6.0	11.1	8.4
L1	13:17:26	0.8	0.3	1.6	1.8	0.8	2.5	4.3	3.6	6.5	6.0	11.1	8.5
L2	13:19:25	1.8	1.5	4.8	3.9	5.7	6.9	11.2	11.9	22.3	18.8	28.6	28.3
L2	13:19:55	1.6	1.5	4.9	3.9	5.6	7.0	11.3	11.9	22.4	19.0	28.6	28.4
L2	13:20:55	1.6	1.4	5.0	4.0	5.7	7.1	11.6	12.0	22.5	19.1	28.7	28.5
L2	13:22:55	1.6	1.4	5.1	4.1	5.8	7.2	11.8	12.0	22.6	19.3	28.9	28.7
L3	13:24:33	3.2	2.9	9.3	10.3	10.7	12.4	20.1	21.4	39.8	34.0	47.0	50.4
L3	13:25:02	3.2	2.9	9.3	10.4	10.7	12.4	20.2	21.5	40.0	34.3	47.1	50.6
L3	13:26:03	3.2	2.9	9.4	10.5	10.8	12.6	20.4	21.6	40.1	34.3	47.3	51.0
L3	13:28:03	3.2	2.9	9.5	10.6	10.9	12.8	20.8	21.8	40.6	34.3	47.5	51.3
L4	13:29:46	4.2	4.4	14.7	14.2	16.0	18.0	31.6	31.6	58.8	52.5	67.0	73.2
L4	13:30:17	4.2	4.4	14.7	14.5	16.2	18.2	31.7	31.7	59.0	52.5	67.1	73.3
L4	13:31:15	4.3	4.5	15.0	14.8	16.3	18.4	32.0	31.9	59.0	52.7	67.2	73.4
L4	13:33:15	4.3	4.5	15.0	15.0	16.7	18.7	32.2	32.1	59.4	51.7	67.6	73.8
L5	13:34:56	6.0	5.7	19.6	15.7	21.7	24.0	42.6	42.1	78.5	67.0	87.1	96.0
L5	13:35:27	6.0	5.7	19.8	17.2	21.7	24.2	42.4	42.3	79.0	67.2	87.3	96.1
L5	13:36:27	6.1	5.7	20.0	19.6	21.7	24.4	42.3	42.3	79.2	67.3	87.3	96.0
L5	13:38:29	6.2	5.7	20.2	23.8	21.8	24.6	42.4	42.7	79.4	67.9	87.7	97.0
L6	13:40:13	7.6	6.6	24.7	24.1	28.1	29.9	53.0	52.9	98.4	84.6	106.6	118.5
L6	13:40:43	7.5	6.7	24.8	24.3	26.6	30.1	53.0	53.1	98.7	84.7	106.6	118.6
L6	13:41:48	7.7	6.8	24.9	24.7	26.7	30.3	53.0	53.3	98.9	84.7	106.7	118.8
L6	13:43:45	7.6	6.7	25.0	25.1	26.9	30.6	53.3	53.5	99.3	84.8	107.3	119.9
L7	13:45:26	8.2	7.3	28.9	28.3	33.0	34.9	63.5	63.3	118.7	101.7	128.6	141.7
L7	13:45:56	8.2	7.3	29.0	28.4	33.2	35.0	63.6	63.4	118.7	101.8	128.7	142.6
L7	13:46:55	8.3	7.3	29.3	28.1	31.8	35.4	63.9	63.6	119.0	101.8	128.7	142.5
L7	13:48:55	8.3	7.4	29.3	28.0	31.9	35.8	64.2	64.1	119.5	102.0	129.0	143.0
L8	13:50:33	9.2	8.3	32.7	32.8	37.4	39.7	73.5	73.6	138.4	118.5	148.9	164.9
L8	13:51:04	9.3	8.3	32.9	32.8	38.0	39.9	73.7	73.9	138.7	118.7	149.3	165.2
L8	13:52:04	9.3	8.3	33.1	31.6	38.6	40.2	74.1	74.0	139.3	119.0	149.6	165.5
L8	13:54:03	9.4	8.4	33.2	31.3	37.3	40.9	75.4	74.2	140.1	119.9	150.3	166.1
L9	13:55:43	10.7	8.9	36.6	36.5	41.3	45.4	85.2	83.9	158.6	135.6	169.8	187.5
L9	13:56:15	10.8	8.9	36.8	36.9	41.9	45.8	85.4	84.2	158.9	135.9	169.8	187.8
L9	13:57:12	10.7	8.8	37.2	37.3	42.1	46.1	85.7	84.7	159.1	135.9	170.0	188.0
L9	13:59:13	10.7	8.9	37.7	37.6	42.7	46.4	85.8	85.3	159.4	136.6	171.7	188.3
L10	14:01:09	11.2	9.3	41.5	39.5	47.7	51.8	96.4	94.9	178.9	153.1	191.7	210.7

Table F.32 continued

VIBRATING WIRE CALCULATED STRAIN

SBZ 5 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 29	VW STRN MICRO STRAIN 30	VW STRN MICRO STRAIN 5	VW STRN MICRO STRAIN 6	VW STRN MICRO STRAIN 37	VW STRN MICRO STRAIN 38	VW STRN MICRO STRAIN 23	VW STRN MICRO STRAIN 24	VW STRN MICRO STRAIN 25	VW STRN MICRO STRAIN 26	VW STRN MICRO STRAIN 27	VW STRN MICRO STRAIN 28
L10	14:01:39	11.2	9.3	41.6	39.7	48.0	52.1	96.9	95.3	179.2	153.2	191.5	210.6
L10	14:02:41	11.2	9.3	42.1	40.1	48.2	52.6	97.0	95.5	179.1	153.3	191.9	211.1
L10	14:04:38	11.3	9.3	42.6	42.2	48.8	53.5	96.7	95.9	180.2	153.8	192.6	211.8
L11	14:06:32	13.1	10.0	47.2	45.4	55.8	59.4	108.5	110.0	199.0	170.6	212.9	232.9
L11	14:07:02	13.2	10.0	47.3	45.7	54.8	59.8	108.8	109.9	199.0	170.4	212.9	233.3
L11	14:08:02	13.2	10.1	48.1	46.2	55.4	60.5	109.1	108.8	199.3	170.8	213.5	233.4
L11	14:10:04	13.3	10.1	48.7	46.3	55.8	61.2	109.3	108.6	199.4	171.1	213.9	233.6
L12	14:11:38	13.0	10.8	50.7	50.5	60.3	64.2	114.5	116.7	209.3	179.1	224.7	245.2
L12	14:12:09	13.0	10.8	51.3	50.5	60.7	64.4	114.4	116.7	209.2	179.0	224.1	244.2
L12	14:13:08	13.2	10.8	51.7	50.9	58.9	65.2	116.3	116.6	209.4	179.1	225.2	245.4
L12	14:15:12	13.0	10.8	52.0	51.5	59.6	65.8	116.7	116.4	209.8	179.2	224.8	244.8
L12A	14:19:08	13.1	11.0	52.8	51.6	60.6	66.5	117.4	114.9	209.9	179.2	224.9	244.8
L13	14:20:57	13.6	11.6	54.7	53.5	64.7	69.7	122.6	123.5	218.6	188.4	236.6	256.0
L13	14:21:25	13.7	11.8	55.1	53.4	65.4	69.9	122.7	123.5	218.8	188.4	236.5	256.3
L13	14:22:31	13.6	11.7	55.2	53.5	65.5	70.1	122.7	123.5	218.3	186.9	236.2	254.3
L13	14:24:31	13.8	11.8	55.6	54.6	63.7	70.7	123.9	124.0	219.1	188.4	236.9	256.0
L14	14:26:31	14.9	12.3	58.2	57.4	68.8	73.8	129.1	130.0	227.9	196.1	247.5	266.6
L14	14:27:00	15.0	12.3	58.4	57.5	69.1	74.2	129.8	130.2	228.1	196.2	247.1	266.3
L14	14:27:58	15.1	12.4	58.5	57.8	69.8	74.7	130.1	130.5	228.4	196.0	247.1	266.5
L14	14:30:00	15.3	12.4	58.7	58.6	68.9	75.6	130.9	130.9	228.9	196.1	247.4	267.1
L15	14:31:32	15.6	12.9	61.1	60.5	71.5	78.4	137.1	136.5	238.3	204.4	257.2	277.4
L15	14:32:03	15.6	13.0	61.1	60.5	71.6	78.7	137.3	136.5	238.2	204.3	257.4	277.1
L15	14:33:07	15.7	13.1	61.6	60.6	71.7	79.2	137.9	137.0	238.5	204.3	257.4	277.5
L15	14:35:02	15.7	13.2	61.9	61.1	72.3	79.8	138.0	137.2	238.5	204.0	257.6	277.5
L16	14:36:50	16.9	14.1	64.1	63.8	74.2	83.2	143.5	142.0	245.9	211.6	267.6	288.1
L16	14:37:15	17.1	14.3	64.3	64.3	74.9	83.3	143.5	141.8	245.8	211.7	267.5	288.3
L16	14:38:17	17.7	14.5	64.7	64.8	74.9	82.9	143.5	141.3	245.8	211.3	267.5	288.4
L16	14:40:15	18.3	14.7	65.1	65.1	74.9	83.0	143.4	140.6	246.0	209.4	267.5	289.0
L17	14:42:43	18.8	15.6	66.7	66.9	76.6	84.4	146.7	143.7	251.8	212.3	271.8	295.2
L17	14:43:44	18.7	15.5	66.9	67.1	76.7	84.5	146.9	143.2	252.3	211.6	271.2	295.6
L17	14:45:42	19.2	16.5	67.6	67.2	77.0	85.1	147.8	142.3	252.7	210.4	271.1	297.7
L18	14:47:35	20.0	17.9	69.5	69.2	80.7	87.5	153.2	144.1	92.7	209.5	275.7	303.4
L18	14:48:06	19.9	17.9	69.7	69.2	81.2	88.0	154.1	144.1	261.1	207.2	276.0	303.5
L18	14:49:11	20.1	17.7	70.3	69.5	82.1	89.3	156.7	142.8	260.4	200.9	271.8	300.3
L18	14:50:33	20.1	17.7	71.7	70.6	82.6	91.5	159.5	139.2	266.2	194.5	267.1	293.8
U0	14:52:03	19.7	16.7	70.3	69.1	79.4	88.8	152.1	131.0	248.6	178.2	246.7	272.6
U1	14:55:16	19.0	16.0	69.5	68.3	77.1	87.6	147.6	125.7	241.8	172.3	237.0	263.9
U2	15:00:07	13.2	9.9	50.5	47.7	52.6	61.3	107.4	87.3	182.9	115.7	162.6	196.5
U3	15:04:45	8.5	6.8	37.9	35.4	37.7	45.7	83.2	62.6	145.1	82.4	122.5	151.8
U4	15:08:45	6.0	4.7	28.7	25.4	26.6	34.1	64.8	45.1	116.0	57.5	92.5	118.2
U5	15:12:49	3.3	2.5	15.8	11.2	15.2	18.7	37.4	18.6	65.9	18.4	46.1	62.6
U6	15:17:22	1.6	0.4	7.7	5.6	3.1	7.6	12.6	-4.0	13.8	-14.5	1.5	6.7
U6A	15:19:54	1.7	0.3	6.9	5.6	2.8	7.1	11.3	-4.3	13.3	-14.4	1.1	6.2

Table F.32 continued

VIBRATING WIRE CALCULATED STRAIN (4 MINUTE READINGS)

SBZ 5 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 29	VW STRN MICRO STRAIN 30	VW STRN MICRO STRAIN 5	VW STRN MICRO STRAIN 6	VW STRN MICRO STRAIN 37	VW STRN MICRO STRAIN 38	VW STRN MICRO STRAIN 23	VW STRN MICRO STRAIN 24	VW STRN MICRO STRAIN 25	VW STRN MICRO STRAIN 26	VW STRN MICRO STRAIN 27	VW STRN MICRO STRAIN 28
L0	13:12:18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
L1	13:17:26	0.8	0.3	1.6	1.8	0.8	2.5	4.3	3.6	6.5	6.0	11.1	8.5
L2	13:22:55	1.6	1.4	5.1	4.1	5.8	7.2	11.8	12.0	22.6	19.3	28.9	28.7
L3	13:28:03	3.2	2.9	9.5	10.6	10.9	12.8	20.8	21.8	40.6	34.3	47.5	51.3
L4	13:33:15	4.3	4.5	15.0	15.0	16.7	18.7	32.2	32.1	59.4	51.7	67.6	73.8
L5	13:38:29	6.2	5.7	20.2	23.8	21.8	24.6	42.4	42.7	79.4	67.9	87.7	97.0
L6	13:43:45	7.6	6.7	25.0	25.1	26.9	30.6	53.3	53.5	99.3	84.8	107.3	119.9
L7	13:48:55	8.3	7.4	29.3	28.0	31.9	35.8	64.2	64.1	119.5	102.0	129.0	143.0
L8	13:54:03	9.4	8.4	33.2	31.3	37.3	40.9	75.4	74.2	140.1	119.9	150.3	166.1
L9	13:59:13	10.7	8.9	37.7	37.6	42.7	46.4	85.8	85.3	159.4	136.6	171.7	188.3
L10	14:04:38	11.3	9.3	42.6	42.2	48.8	53.5	96.7	95.9	180.2	153.8	192.6	211.8
L11	14:10:04	13.3	10.1	48.7	46.3	55.8	61.2	109.3	108.6	199.4	171.1	213.9	233.6
L12	14:15:12	13.0	10.8	52.0	51.5	59.6	65.8	116.7	116.4	209.8	179.2	224.8	244.8
L12A	14:19:08	13.1	11.0	52.8	51.6	60.6	66.5	117.4	114.9	209.9	179.2	224.9	244.8
L13	14:24:31	13.8	11.8	55.6	54.6	63.7	70.7	123.9	124.0	219.1	188.4	236.9	256.0
L14	14:30:00	15.3	12.4	58.7	58.6	68.9	75.6	130.9	130.9	228.9	196.1	247.4	267.1
L15	14:35:02	15.7	13.2	61.9	61.1	72.3	79.8	138.0	137.2	238.5	204.0	257.6	277.5
L16	14:40:15	18.3	14.7	65.1	65.1	74.9	83.0	143.4	140.6	246.0	209.4	267.5	289.0
L17	14:45:42	19.2	16.5	67.6	67.2	77.0	85.1	147.8	142.3	252.7	210.4	271.1	297.7
L18	14:50:33	20.1	17.7	71.7	70.6	82.6	91.5	159.5	139.2	266.2	194.5	267.1	293.8
U0	14:52:03	19.7	16.7	70.3	69.1	79.4	88.8	152.1	131.0	248.6	178.2	246.7	272.6
U1	14:55:16	19.0	16.0	69.5	68.3	77.1	87.6	147.6	125.7	241.8	172.3	237.0	263.9
U2	15:00:07	13.2	9.9	50.5	47.7	52.6	61.3	107.4	87.3	182.9	115.7	162.6	196.5
U3	15:04:45	8.5	6.8	37.9	35.4	37.7	45.7	83.2	62.6	145.1	82.4	122.5	151.8
U4	15:08:45	6.0	4.7	28.7	25.4	26.6	34.1	64.8	45.1	116.0	57.5	92.5	118.2
U5	15:12:49	3.3	2.5	15.8	11.2	15.2	18.7	37.4	18.6	65.9	18.4	46.1	62.6
U6	15:17:22	1.6	0.4	7.7	5.6	3.1	7.6	12.6	-4.0	13.8	-14.5	1.5	6.7
U6A	15:19:54	1.7	0.3	6.9	5.6	2.8	7.1	11.3	-4.3	13.3	-14.4	1.1	6.2

Table F.32 continued

AVERAGE STRAIN AT EACH GAGE LEVEL, INTEGRATED PILE COMPRESSION & COMPARISON WITH TELLTALE MEASUREMENT (4 MINUTE READINGS)

SBZ 5 LOAD NUMBER	AVG VW MICRO STRAIN SURFACE	AVG VW MICRO STRAIN 29+30	AVG VW MICRO STRAIN 5+6	AVG VW MICRO STRAIN 37+38	AVG VW MICRO STRAIN 23+24	AVG VW MICRO STRAIN 25+26	AVG VW MICRO STRAIN 27+28	EST'D. MICRO STRAIN CELL TOP	PILE COMPRESSION SG MSMT. INCHES	TT MSMT. INCHES	ABS.DIFF. SG-TT INCHES
L0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0000	0.0000	0.0000
L1	0.0	0.5	1.7	1.6	4.0	6.2	9.8	22.0	0.0024	0.0014	0.0009
L2	0.0	1.5	4.6	6.5	11.9	20.9	28.8	43.6	0.0072	0.0060	0.0012
L3	0.0	3.1	10.0	11.8	21.3	37.4	49.4	65.2	0.0132	0.0109	0.0022
L4	0.0	4.4	15.0	17.7	32.2	55.6	70.7	86.8	0.0194	0.0165	0.0029
L5	0.0	6.0	22.0	23.2	42.6	73.6	92.4	108.5	0.0260	0.0220	0.0041
L6	0.0	7.1	25.1	28.8	53.4	92.1	113.6	130.0	0.0318	0.0272	0.0046
L7	0.0	7.8	28.7	33.8	64.1	110.7	136.0	151.7	0.0376	0.0326	0.0050
L8	0.0	8.9	32.3	39.1	74.8	130.0	158.2	173.3	0.0436	0.0377	0.0059
L9	0.0	9.8	37.7	44.5	85.6	148.0	180.0	194.9	0.0498	0.0429	0.0069
L10	0.0	10.3	42.4	51.2	96.3	167.0	202.2	216.6	0.0559	0.0486	0.0074
L11	0.0	11.7	47.5	58.5	108.9	185.2	223.7	238.1	0.0627	0.0546	0.0081
L12	0.0	11.9	51.8	62.7	116.6	194.5	234.8	249.0	0.0665	0.0578	0.0088
L12A	0.0	12.0	52.2	63.6	116.1	194.5	234.9	249.0	0.0667	0.0580	0.0087
L13	0.0	12.8	55.1	67.2	124.0	203.7	246.4	259.6	0.0704	0.0613	0.0091
L14	0.0	13.8	58.6	72.3	130.9	212.5	257.3	270.8	0.0743	0.0647	0.0096
L15	0.0	14.5	61.5	76.0	137.6	221.2	267.6	281.6	0.0777	0.0677	0.0100
L16	0.0	16.5	65.1	78.9	142.0	227.7	278.3	292.3	0.0810	0.0707	0.0103
L17	0.0	17.8	67.4	81.1	145.1	231.5	284.4	297.6	0.0831	0.0726	0.0105
L18	0.0	18.9	71.1	87.0	149.4	230.4	280.4	300.9	0.0852	0.0749	0.0103
U0	0.0	18.2	69.7	84.1	141.5	213.4	259.7	274.9	0.0806	0.0714	0.0092
U1	0.0	17.5	68.9	82.4	136.7	207.0	250.4	261.1	0.0783	0.0698	0.0085
U2	0.0	11.6	49.1	56.9	97.3	149.3	179.5	165.1	0.0554	0.0496	0.0058
U3	0.0	7.6	36.7	41.7	72.9	113.8	137.2	121.9	0.0414	0.0372	0.0042
U4	0.0	5.4	27.0	30.3	54.9	86.8	105.4	91.0	0.0310	0.0279	0.0031
U5	0.0	2.9	13.5	16.9	28.0	42.1	54.3	41.8	0.0157	0.0143	0.0014
U6	0.0	1.0	6.6	5.3	4.3	-0.4	4.1	0.0	0.0029	0.0028	0.0001
U6A	0.0	1.0	6.3	5.0	3.5	-0.5	3.7	0.0	0.0027	0.0027	0.0000
ELEV. FT	6.30	-14.63	-36.13	-46.63	-57.63	-68.63	-73.63	-75.13			

Table F.32 continued

VIBRATING WIRE CALCULATED AVERAGE LOADS (4 MINUTE READINGS)

LA = 5.00 ft
LB = 1.50 ft
B = 18.00 in
ES = 27500.0 ksi

ACA = 317.115 si
ACB = 313.155 si
ASA = 3.538 si
ASB = 7.498 si

SBZ 5 LOAD NUMBER	AVG VW LOAD TONS SURFACE	AVG VW LOAD TONS 29+30	AVG VW LOAD TONS 5+6	AVG VW LOAD TONS 37+38	AVG VW LOAD TONS 23+24	AVG VW LOAD TONS 25+26	AVG VW LOAD TONS 27+28	OSTERBERG LOAD TONS BOTTOM	INCR. PILE MODULUS KSI	CALC. PILE A MODULUS KSI	CALC. PILE B MODULUS KSI
L0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0		5436.9	5708.9
L1	0.0	0.47	1.52	1.43	3.49	5.49	9.09	20.4	12788.4	5436.9	5708.9
L2	0.0	1.33	4.04	5.70	10.49	18.42	26.65	40.3	6489.8	5436.9	5708.9
L3	0.0	2.72	8.84	10.42	18.76	32.97	45.69	60.3	5991.5	5436.9	5708.9
L4	0.0	3.89	13.19	15.60	28.34	48.96	65.37	80.3	5807.2	5436.9	5708.9
L5	0.0	5.25	19.37	20.45	37.49	64.87	85.41	100.3	5690.2	5436.9	5708.9
L6	0.0	6.28	22.07	25.33	47.05	81.09	105.05	120.3	5807.1	5436.9	5708.9
L7	0.0	6.87	25.26	29.80	56.48	97.53	125.78	140.3	5502.7	5436.9	5708.9
L8	0.0	7.85	28.41	34.46	65.91	114.47	146.27	160.3	5575.4	5436.9	5708.9
L9	0.0	8.65	33.17	39.23	75.35	130.33	166.50	180.2	5627.8	5436.9	5708.9
L10	0.0	9.04	37.33	45.07	84.84	147.10	187.02	200.3	5585.4	5436.9	5708.9
L11	0.0	10.32	41.86	51.53	95.95	163.16	206.92	220.2	5715.7	5436.9	5708.9
L12	0.0	10.48	45.58	55.25	102.70	171.29	217.12	230.3	5621.8	5436.9	5708.9
L12A	0.0	10.59	46.01	55.98	102.29	171.34	217.21	230.3		5436.9	5708.9
L13	0.0	11.24	48.55	59.19	109.18	179.45	227.92	240.1	5247.6	5436.9	5708.9
L14	0.0	12.19	51.64	63.64	115.32	187.19	237.93	250.5	5920.9	5436.9	5708.9
L15	0.0	12.74	54.18	66.98	121.21	194.86	247.46	260.4	5941.1	5436.9	5708.9
L16	0.0	14.56	57.35	69.54	125.07	200.57	257.34	270.3	5717.6	5436.9	5708.9
L17	0.0	15.72	59.34	71.41	127.77	203.93	263.02	275.2	4961.2	5436.9	5708.9
L18	0.0	16.61	62.63	76.64	131.56	202.91	259.36	278.3		5436.9	5708.9
U0	0.0	16.04	61.40	74.08	124.66	187.97	240.15	254.2		5436.9	5708.9
U1	0.0	15.41	60.70	72.57	120.39	182.34	231.60	241.5		5436.9	5708.9
U2	0.0	10.19	43.25	50.14	85.73	131.50	166.04	152.7		5436.9	5708.9
U3	0.0	6.72	32.29	36.72	64.20	100.19	126.88	112.8		5436.9	5708.9
U4	0.0	4.73	23.81	26.73	48.38	76.42	97.47	84.2		5436.9	5708.9
U5	0.0	2.55	11.87	14.89	24.64	37.11	50.24	38.7		5436.9	5708.9
U6	0.0	0.87	5.84	4.69	3.77	-0.33	3.78	0.0		5436.9	5708.9
U6A	0.0	0.89	5.50	4.39	3.09	-0.48	3.38	0.0		5436.9	5708.9

ELEV. FT	6.30	-14.63	-36.13	-46.63	-57.63	-68.63	-73.63	-75.13	5248.2 KSI = CONCRETE MODULUS

Table F.32 continued

INTEGRATED MOVEMENT AT VW STRAIN GAGE (4 MINUTE READINGS)

SBZ 5 LOAD NUMBER	VW MOVEMENT INCHES SURFACE	VW MOVEMENT INCHES 29+30	VW MOVEMENT INCHES 5+6	VW MOVEMENT INCHES 37+38	VW MOVEMENT INCHES 23+24	VW MOVEMENT INCHES 25+26	VW MOVEMENT INCHES 27+28	VW MOVEMENT INCHES CELL TOP
L0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L1	-0.0009	-0.0009	-0.0006	-0.0004	0.0000	0.0007	0.0012	0.0014
L2	0.0038	0.0039	0.0047	0.0054	0.0066	0.0088	0.0103	0.0110
L3	0.0028	0.0032	0.0049	0.0062	0.0084	0.0123	0.0149	0.0160
L4	0.0071	0.0076	0.0102	0.0122	0.0155	0.0213	0.0251	0.0265
L5	0.0059	0.0067	0.0103	0.0132	0.0175	0.0252	0.0301	0.0320
L6	0.0054	0.0063	0.0104	0.0138	0.0192	0.0288	0.0350	0.0372
L7	0.0150	0.0160	0.0207	0.0246	0.0311	0.0426	0.0500	0.0526
L8	0.0191	0.0202	0.0255	0.0300	0.0376	0.0511	0.0597	0.0627
L9	0.0231	0.0244	0.0305	0.0357	0.0443	0.0597	0.0695	0.0729
L10	0.0326	0.0339	0.0407	0.0466	0.0563	0.0737	0.0848	0.0885
L11	0.0419	0.0434	0.0510	0.0577	0.0688	0.0882	0.1004	0.1046
L12	0.0512	0.0527	0.0609	0.0682	0.0800	0.1005	0.1134	0.1177
L12A	0.0513	0.0528	0.0611	0.0684	0.0802	0.1007	0.1136	0.1179
L13	0.0559	0.0575	0.0663	0.0740	0.0866	0.1082	0.1217	0.1263
L14	0.0654	0.0671	0.0765	0.0847	0.0981	0.1208	0.1349	0.1397
L15	0.0800	0.0818	0.0916	0.1003	0.1144	0.1380	0.1527	0.1576
L16	0.1047	0.1068	0.1173	0.1264	0.1410	0.1654	0.1806	0.1857
L17	0.1745	0.1767	0.1877	0.1971	0.2120	0.2368	0.2523	0.2576
L18	0.5647	0.5671	0.5787	0.5886	0.6042	0.6293	0.6446	0.6499
U0	0.6658	0.6680	0.6794	0.6891	0.7040	0.7274	0.7416	0.7464
U1	0.6715	0.6737	0.6848	0.6943	0.7088	0.7315	0.7452	0.7498
U2	0.6692	0.6707	0.6785	0.6852	0.6954	0.7116	0.7215	0.7246
U3	0.6658	0.6668	0.6725	0.6775	0.6850	0.6973	0.7049	0.7072
U4	0.6619	0.6625	0.6667	0.6703	0.6760	0.6853	0.6911	0.6929
U5	0.6486	0.6489	0.6510	0.6530	0.6559	0.6605	0.6634	0.6643
U6	0.6249	0.6250	0.6260	0.6268	0.6274	0.6277	0.6278	0.6278
U6A	0.6250	0.6251	0.6261	0.6268	0.6273	0.6275	0.6276	0.6277

Table F.32 continued

INTEGRATED MOVEMENT AT SEGMENT CL (4 MINUTE READINGS)

SBZ 5 LOAD NUMBER CL.ELEV.	AVG VW MOVEMENT INCHES -4.17	AVG VW MOVEMENT INCHES -25.38	AVG VW MOVEMENT INCHES -41.38	AVG VW MOVEMENT INCHES -52.13	AVG VW MOVEMENT INCHES -63.13	AVG VW MOVEMENT INCHES -71.13
L0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L1	0.0000	0.0000	0.0000	0.0000	0.0003	0.0009
L2	0.0038	0.0043	0.0051	0.0060	0.0077	0.0096
L3	0.0030	0.0040	0.0056	0.0073	0.0104	0.0136
L4	0.0074	0.0089	0.0112	0.0139	0.0184	0.0232
L5	0.0063	0.0085	0.0117	0.0153	0.0213	0.0277
L6	0.0058	0.0083	0.0121	0.0165	0.0240	0.0319
L7	0.0155	0.0183	0.0226	0.0278	0.0368	0.0463
L8	0.0197	0.0229	0.0278	0.0338	0.0443	0.0554
L9	0.0238	0.0274	0.0331	0.0400	0.0520	0.0646
L10	0.0333	0.0373	0.0436	0.0515	0.0650	0.0792
L11	0.0426	0.0472	0.0544	0.0632	0.0785	0.0943
L12	0.0520	0.0568	0.0645	0.0741	0.0903	0.1070
L12A	0.0520	0.0569	0.0647	0.0743	0.0905	0.1072
L13	0.0567	0.0619	0.0701	0.0803	0.0974	0.1150
L14	0.0663	0.0718	0.0806	0.0914	0.1095	0.1279
L15	0.0809	0.0867	0.0959	0.1073	0.1262	0.1454
L16	0.1058	0.1121	0.1219	0.1337	0.1532	0.1730
L17	0.1756	0.1822	0.1924	0.2045	0.2244	0.2446
L18	0.5659	0.5729	0.5836	0.5964	0.6168	0.6370
U0	0.6669	0.6737	0.6842	0.6965	0.7157	0.7345
U1	0.6726	0.6792	0.6896	0.7016	0.7201	0.7383
U2	0.6699	0.6746	0.6818	0.6903	0.7035	0.7166
U3	0.6663	0.6697	0.6750	0.6812	0.6912	0.7011
U4	0.6622	0.6646	0.6685	0.6732	0.6806	0.6882
U5	0.6487	0.6500	0.6520	0.6544	0.6582	0.6620
U6	0.6250	0.6255	0.6264	0.6271	0.6275	0.6277
U6A	0.6251	0.6256	0.6264	0.6270	0.6274	0.6276

Table F.32 continued

AVERAGE SEGMENT SHEAR STRESS (4 MINUTE READINGS)

SBZ 5 LOAD NUMBER CL.ELEV.	AVG VW SHEAR TSF -4.17	AVG VW SHEAR TSF -25.38	AVG VW SHEAR TSF -41.38	AVG VW SHEAR TSF -52.13	AVG VW SHEAR TSF -63.13	AVG VW SHEAR TSF -71.13
L0	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016
L1	-0.013	-0.008	-0.018	0.015	0.014	0.104
L2	-0.006	0.005	0.010	0.056	0.104	0.258
L3	0.005	0.031	0.009	0.110	0.199	0.408
L4	0.015	0.056	0.022	0.177	0.296	0.530
L5	0.025	0.093	0.001	0.242	0.398	0.668
L6	0.034	0.106	0.035	0.313	0.499	0.782
L7	0.038	0.126	0.056	0.388	0.606	0.925
L8	0.046	0.143	0.080	0.460	0.719	1.043
L9	0.052	0.174	0.080	0.531	0.817	1.189
L10	0.056	0.203	0.106	0.586	0.927	1.314
L11	0.066	0.228	0.137	0.657	1.002	1.442
L12	0.067	0.256	0.137	0.702	1.023	1.511
L12A	0.068	0.258	0.142	0.685	1.030	1.513
L13	0.073	0.273	0.152	0.741	1.048	1.599
L14	0.081	0.289	0.174	0.767	1.072	1.675
L15	0.085	0.305	0.187	0.805	1.099	1.737
L16	0.100	0.315	0.177	0.825	1.128	1.876
L17	0.109	0.322	0.175	0.837	1.137	1.953
L18	0.116	0.340	0.206	0.816	1.065	1.865
U0	0.111	0.335	0.185	0.750	0.943	1.723
U1	0.106	0.335	0.172	0.708	0.922	1.625
U2	0.065	0.240	0.093	0.523	0.677	1.135
U3	0.037	0.182	0.054	0.400	0.529	0.873
U4	0.021	0.131	0.030	0.312	0.408	0.685
U5	0.004	0.056	0.032	0.131	0.173	0.421
U6	-0.009	0.022	-0.035	-0.030	-0.079	0.121
U6A	-0.009	0.019	-0.034	-0.036	-0.070	0.112

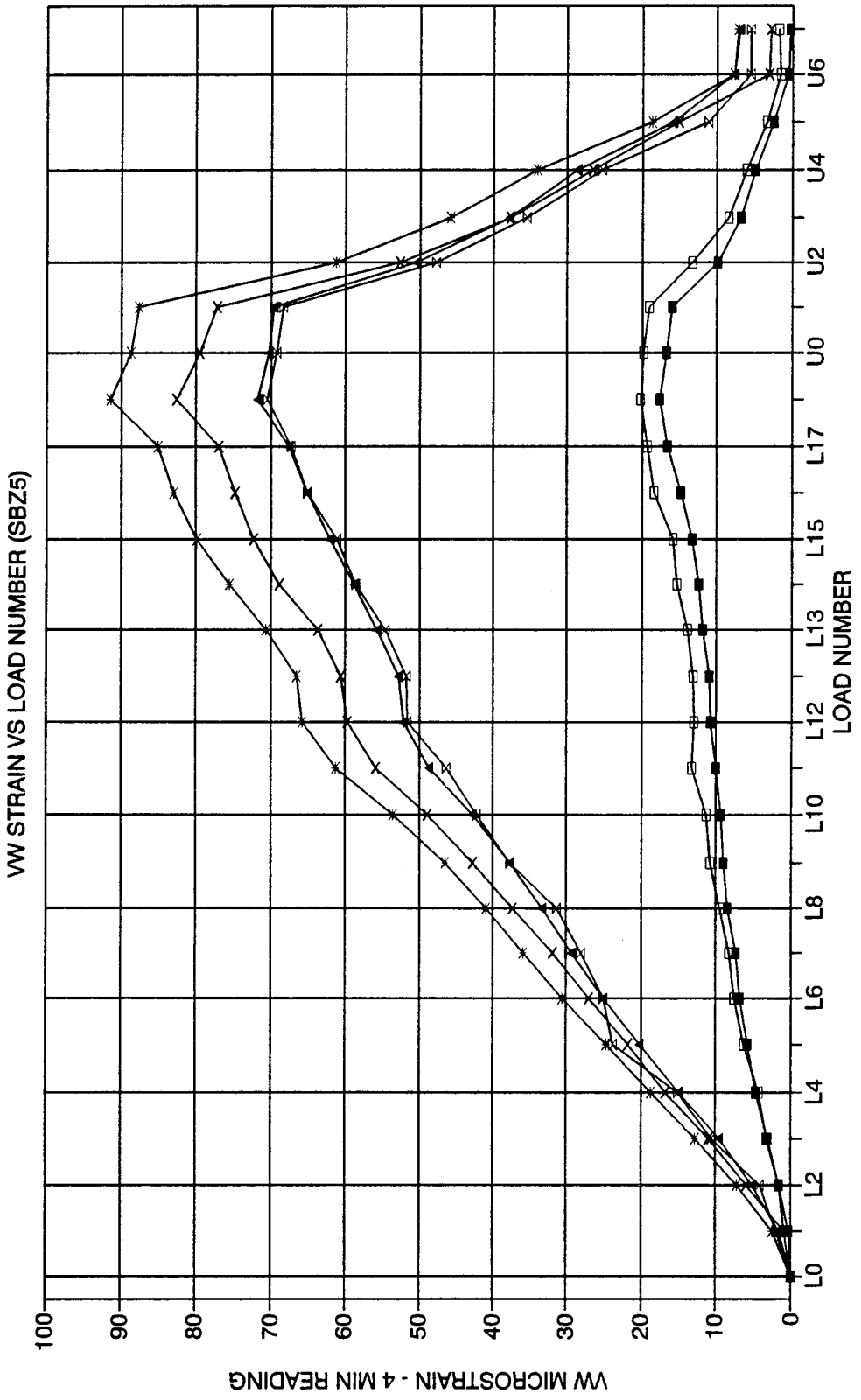

Figure F.168 Strain at Pile Top: Seabreeze Load Test 5

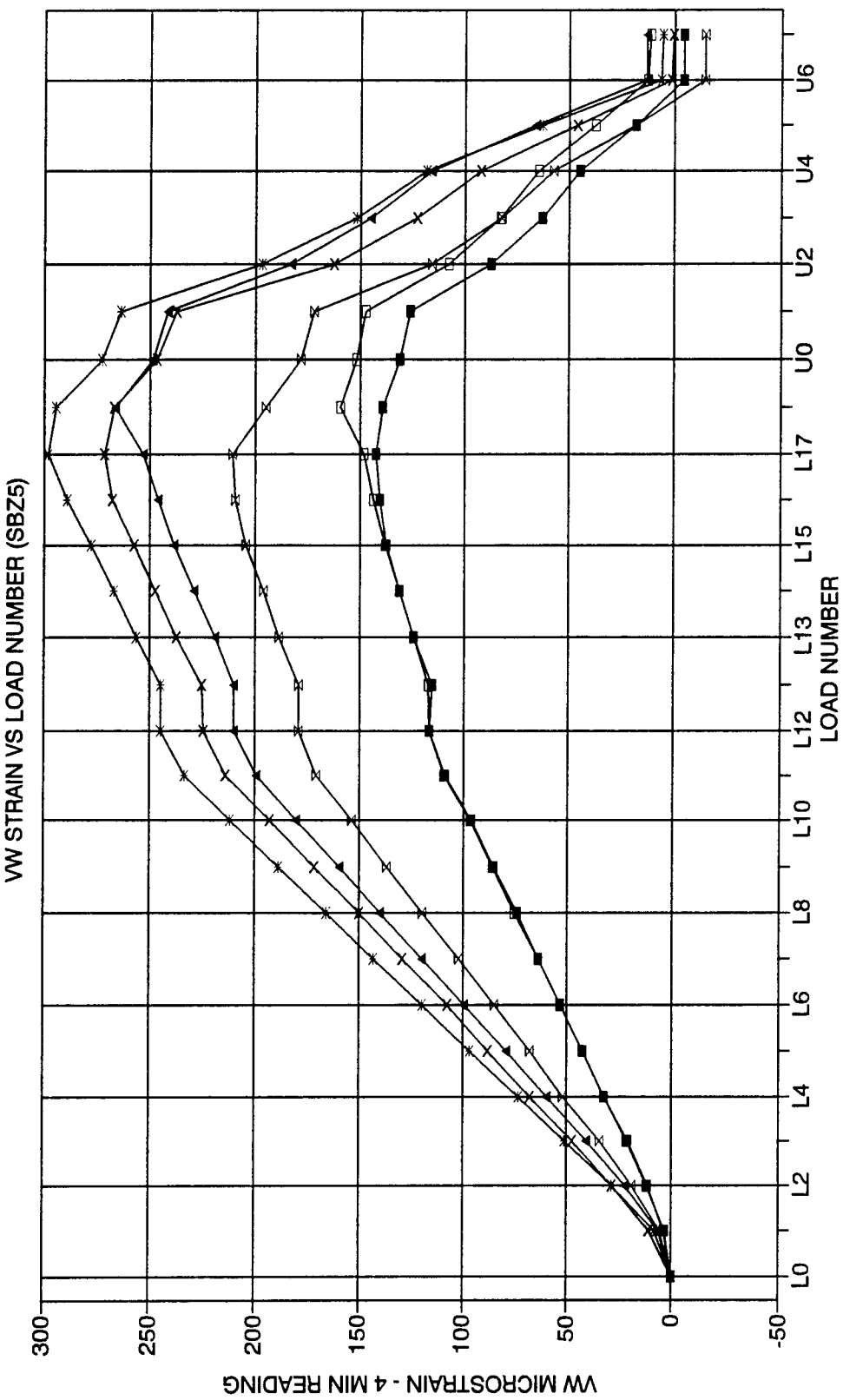

Figure F.169 Strain at Pile Bottom: Seabreeze Load Test 5

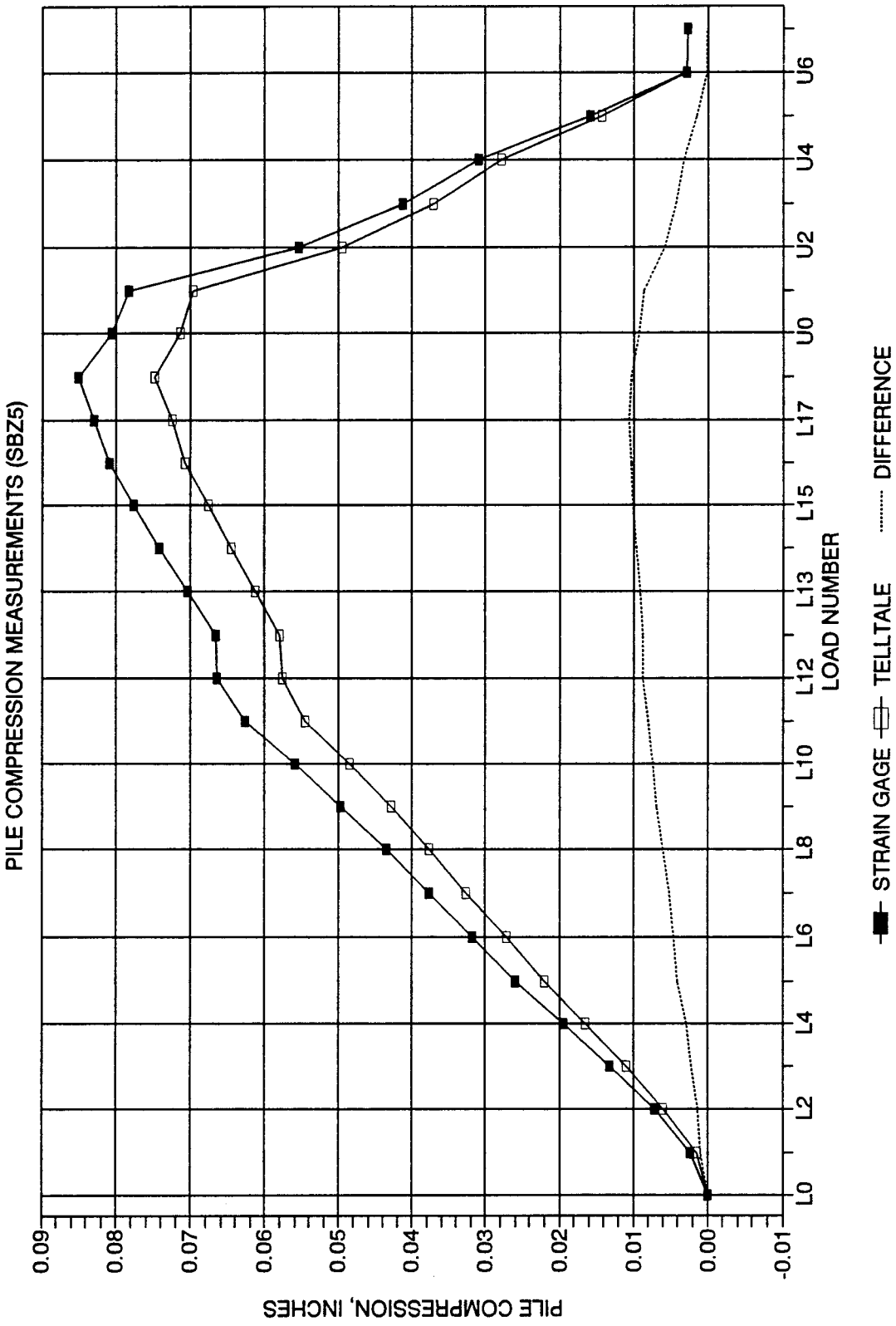

Figure F.170 Pile Compression Measurements: Seabreeze Load Test 5

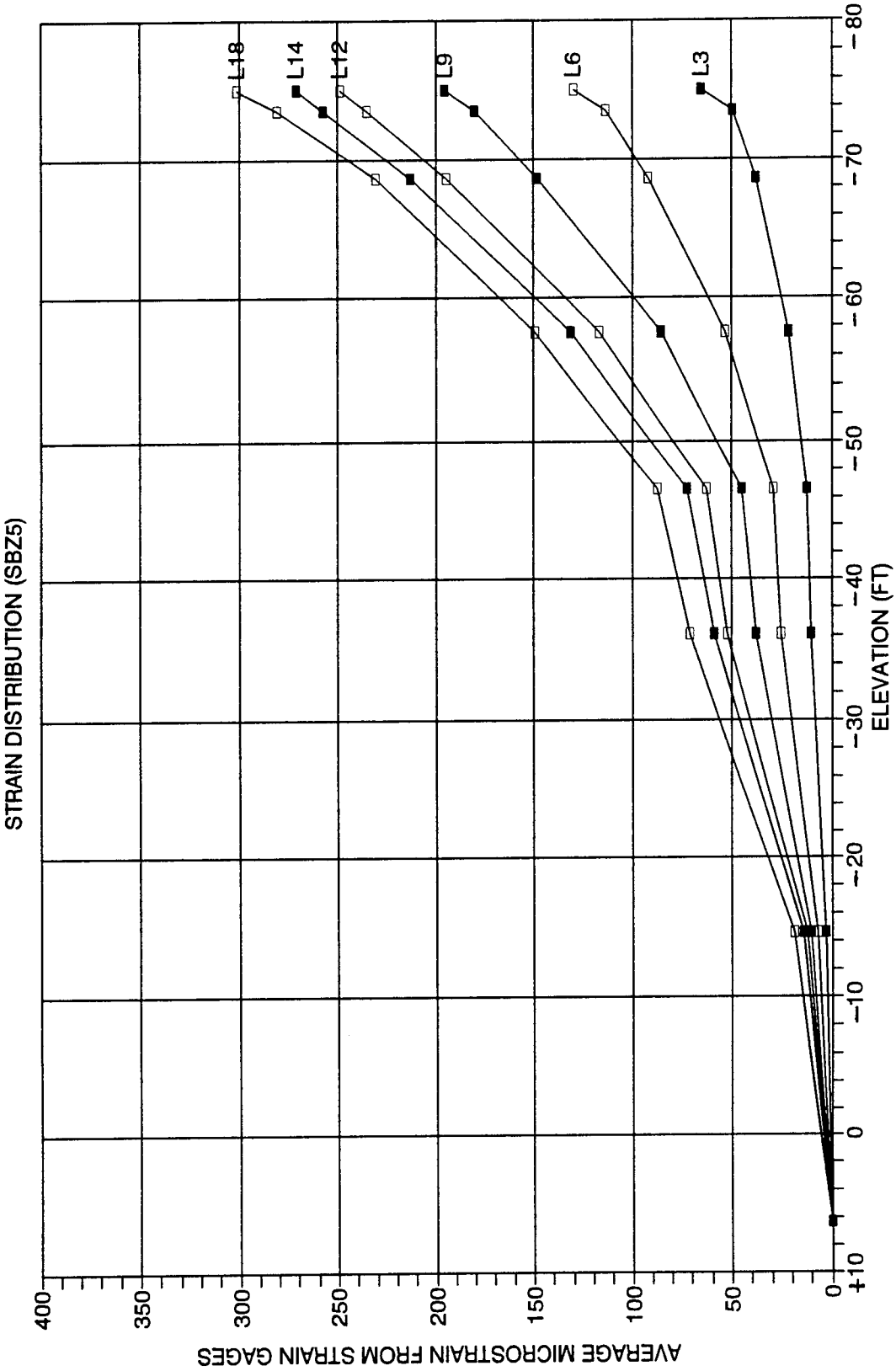

Figure F.171 Pile Strain Distribution: Seabreeze Load Test 5

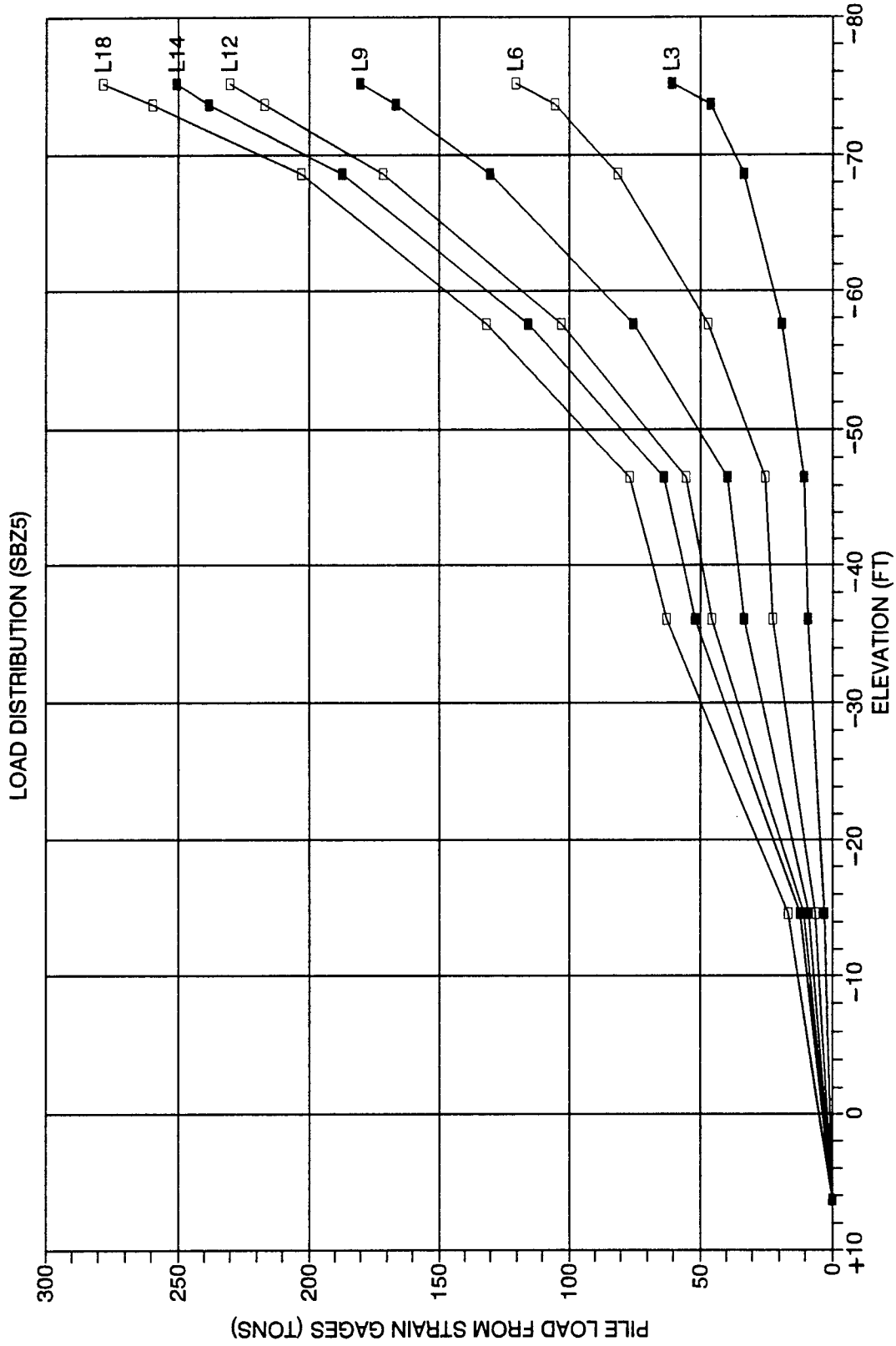

Figure F.172 Pile Load Distribution: Seabreeze Load Test 5

Table F.33 Strain Analyses: Seabreeze Load Test 6

VIBRATING WIRE INSTRUMENT READINGS - STRAIN

SBZ 6 LOAD NUMBER	TIME	VW STRN FREQ^2 KHZ^2 29	VW STRN FREQ^2 KHZ^2 30	VW STRN FREQ^2 KHZ^2 5	VW STRN FREQ^2 KHZ^2 6	VW STRN FREQ^2 KHZ^2 37	VW STRN FREQ^2 KHZ^2 38	VW STRN FREQ^2 KHZ^2 23	VW STRN FREQ^2 KHZ^2 24	VW STRN FREQ^2 KHZ^2 25	VW STRN FREQ KHZ^2 26	VW STRN FREQ KHZ^2 27	VW STRN FREQ KHZ^2 28
L0	11:31:48	0.62844	0.75066	0.64205	0.60103	0.68708	0.63861	0.70812	0.62411	0.67730	0.73544	0.84098	0.79585
L0	11:33:39	0.62842	0.75066	0.64205	0.60103	0.68715	0.63860	0.70814	0.62411	0.67726	0.73543	0.84096	0.79561
L0	11:35:15	0.62844	0.75067	0.64206	0.60102	0.68715	0.63861	0.70817	0.62411	0.67727	0.73544	0.84098	0.79565
L0	11:50:15	0.62844	0.75067	0.64205	0.60103	0.68710	0.63861	0.70813	0.62412	0.67728	0.73545	0.84097	0.79554
L0	12:05:15	0.62840	0.75061	0.64199	0.60093	0.68700	0.63856	0.70813	0.62407	0.67725	0.73542	0.84095	0.79556
L0	12:20:15	0.62840	0.75060	0.64197	0.60091	0.68697	0.63854	0.70812	0.62406	0.67725	0.73542	0.84095	0.79568
L0	12:35:15	0.62834	0.75054	0.64191	0.60083	0.68691	0.63849	0.70810	0.62402	0.67722	0.73540	0.84094	0.79555
L0	12:50:15	0.62821	0.75044	0.64186	0.60076	0.68686	0.63842	0.70809	0.62398	0.67722	0.73536	0.84092	0.79575
L0	13:05:15	0.62811	0.75041	0.64179	0.60085	0.68680	0.63835	0.70807	0.62393	0.67719	0.73534	0.84089	0.79560
L0	13:11:31	0.62807	0.75039	0.64179	0.60082	0.68679	0.63832	0.70807	0.62393	0.67720	0.73531	0.84089	0.79561
L1	13:15:42	0.62787	0.75028	0.64129	0.60027	0.68579	0.63752	0.70677	0.62272	0.67502	0.73317	0.83749	0.79373
L1	13:16:08	0.62788	0.75026	0.64128	0.60026	0.68577	0.63752	0.70677	0.62273	0.67502	0.73317	0.83751	0.79374
L1	13:17:16	0.62787	0.75026	0.64128	0.60026	0.68574	0.63751	0.70673	0.62270	0.67494	0.73298	0.83725	0.79275
L1	13:19:08	0.62785	0.75024	0.64115	0.60015	0.68584	0.63736	0.70648	0.62249	0.67462	0.73293	0.83709	0.79264
L2	13:23:28	0.62779	0.74992	0.64081	0.59965	0.68540	0.63682	0.70568	0.62145	0.67283	0.73107	0.83471	0.79053
L2	13:23:59	0.62780	0.74990	0.64081	0.59962	0.68527	0.63672	0.70539	0.62123	0.67239	0.73081	0.83470	0.79028
L2	13:24:57	0.62779	0.74993	0.64072	0.59962	0.68526	0.63672	0.70539	0.62122	0.67239	0.73081	0.83459	0.79031
L2	13:27:00	0.62779	0.74975	0.64061	0.60025	0.68514	0.63657	0.70502	0.62099	0.67182	0.73036	0.83456	0.78982
L3	13:29:27	0.62775	0.74954	0.63964	0.59866	0.68407	0.63541	0.70306	0.61916	0.66846	0.72750	0.83061	0.78563
L3	13:29:57	0.62775	0.74957	0.63965	0.59866	0.68408	0.63541	0.70308	0.61913	0.66840	0.72746	0.83076	0.78547
L3	13:30:55	0.62775	0.74956	0.63961	0.59862	0.68403	0.63536	0.70297	0.61911	0.66841	0.72747	0.83073	0.78553
L3	13:32:59	0.62774	0.74953	0.63959	0.59861	0.68398	0.63532	0.70285	0.61906	0.66836	0.72743	0.83079	0.78540
L4	13:35:42	0.62733	0.74938	0.63863	0.59771	0.68265	0.63402	0.70068	0.61685	0.66412	0.72392	0.82694	0.78059
L4	13:36:13	0.62734	0.74939	0.63860	0.59778	0.68266	0.63402	0.70069	0.61686	0.66416	0.72392	0.82701	0.78065
L4	13:37:06	0.62733	0.74938	0.63860	0.59791	0.68264	0.63397	0.70062	0.61681	0.66406	0.72394	0.82685	0.78049
L4	13:39:06	0.62731	0.74936	0.63852	0.59814	0.68261	0.63393	0.70058	0.61676	0.66407	0.72394	0.82671	0.78040
L5	13:41:02	0.62709	0.74921	0.63752	0.59651	0.68155	0.63269	0.69855	0.61452	0.65966	0.72033	0.82233	0.77548
L5	13:41:33	0.62708	0.74920	0.63749	0.59648	0.68151	0.63266	0.69850	0.61449	0.65959	0.72029	0.82229	0.77540
L5	13:42:33	0.62707	0.74920	0.63746	0.59645	0.68147	0.63262	0.69845	0.61446	0.65964	0.72035	0.82235	0.77552
L5	13:44:31	0.62706	0.74919	0.63741	0.59639	0.68139	0.63252	0.69804	0.61437	0.65943	0.72025	0.82228	0.77534
L6	13:47:01	0.62657	0.74908	0.63631	0.59532	0.68011	0.63131	0.69585	0.61204	0.65478	0.71651	0.81787	0.77036
L6	13:47:52	0.62655	0.74907	0.63627	0.59528	0.68010	0.63127	0.69579	0.61201	0.65474	0.71647	0.81786	0.77028
L6	13:48:30	0.62655	0.74907	0.63626	0.59526	0.68007	0.63124	0.69573	0.61199	0.65470	0.71642	0.81788	0.77023
L6	13:50:30	0.62651	0.74906	0.63621	0.59524	0.68003	0.63116	0.69560	0.61194	0.65464	0.71627	0.81782	0.77003
L7	13:52:28	0.62626	0.74887	0.63528	0.59422	0.67879	0.62999	0.69334	0.60968	0.65030	0.71240	0.81347	0.76518
L7	13:52:58	0.62626	0.74886	0.63525	0.59420	0.67877	0.62998	0.69331	0.60967	0.65026	0.71241	0.81345	0.76512
L7	13:53:58	0.62624	0.74886	0.63519	0.59417	0.67869	0.62991	0.69320	0.60964	0.65013	0.71235	0.81343	0.76513
L7	13:55:58	0.62624	0.74884	0.63515	0.59413	0.67866	0.62984	0.69307	0.60963	0.64991	0.71226	0.81330	0.76493
L8	13:58:10	0.62613	0.74856	0.63424	0.59327	0.67778	0.62875	0.69085	0.60747	0.64549	0.70885	0.80895	0.75998
L8	13:58:35	0.62613	0.74856	0.63422	0.59324	0.67775	0.62874	0.69081	0.60745	0.64544	0.70882	0.80893	0.76014
L8	13:59:33	0.62613	0.74856	0.63420	0.59322	0.67775	0.62869	0.69072	0.60733	0.64526	0.70859	0.80860	0.75995
L8	14:01:34	0.62613	0.74855	0.63416	0.59312	0.67770	0.62862	0.69066	0.60723	0.64518	0.70844	0.80855	0.75989
L9	14:03:39	0.62584	0.74832	0.63323	0.59217	0.67614	0.62743	0.68810	0.60472	0.64065	0.70417	0.80449	0.75505

Table F.33 continued

VIBRATING WIRE INSTRUMENT READINGS - STRAIN

SBZ 6 LOAD NUMBER	TIME	VW STRN FREQ^2 KHZ^2 29	VW STRN FREQ^2 KHZ^2 30	VW STRN FREQ^2 KHZ^2 5	VW STRN FREQ^2 KHZ^2 6	VW STRN FREQ^2 KHZ^2 37	VW STRN FREQ^2 KHZ^2 38	VW STRN FREQ^2 KHZ^2 23	VW STRN FREQ^2 KHZ^2 24	VW STRN FREQ^2 KHZ^2 25	VW STRN FREQ KHZ^2 26	VW STRN FREQ KHZ^2 27	VW STRN FREQ KHZ^2 28
L9	14:04:14	0.62585	0.74837	0.63320	0.59215	0.67615	0.62742	0.68810	0.60473	0.64067	0.70422	0.80438	0.75488
L9	14:05:10	0.62585	0.74833	0.63314	0.59212	0.67600	0.62741	0.68809	0.60465	0.64055	0.70399	0.80440	0.75494
L9	14:07:11	0.62585	0.74832	0.63305	0.59205	0.67579	0.62737	0.68808	0.60452	0.64037	0.70366	0.80430	0.75467
L10	14:09:03	0.62571	0.74809	0.63219	0.59119	0.67521	0.62620	0.68574	0.60204	0.63575	0.70034	0.79959	0.74969
L10	14:09:34	0.62571	0.74809	0.63218	0.59116	0.67518	0.62616	0.68578	0.60203	0.63576	0.70043	0.79963	0.74973
L10	14:10:41	0.62571	0.74816	0.63215	0.59113	0.67513	0.62610	0.68571	0.60189	0.63558	0.70010	0.79945	0.74953
L10	14:12:41	0.62571	0.74816	0.63210	0.59106	0.67508	0.62602	0.68564	0.60182	0.63548	0.69997	0.79941	0.74942
L11	14:15:04	0.62546	0.74786	0.63105	0.59002	0.67393	0.62490	0.68319	0.59945	0.63089	0.69650	0.79546	0.74441
L11	14:15:33	0.62547	0.74784	0.63102	0.59000	0.67389	0.62485	0.68323	0.59939	0.63078	0.69637	0.79471	0.74444
L11	14:16:33	0.62547	0.74785	0.63098	0.58998	0.67386	0.62483	0.68321	0.59933	0.63069	0.69617	0.79452	0.74433
L11	14:18:34	0.62547	0.74785	0.63090	0.58989	0.67374	0.62471	0.68311	0.59925	0.63062	0.69611	0.79450	0.74427
L12	14:20:20	0.62504	0.74759	0.62995	0.58894	0.67251	0.62349	0.68052	0.59695	0.62613	0.69236	0.79014	0.73925
L12	14:20:52	0.62505	0.74759	0.62991	0.58890	0.67242	0.62342	0.68049	0.59693	0.62604	0.69231	0.79007	0.73925
L12	14:21:50	0.62505	0.74760	0.62985	0.58882	0.67230	0.62334	0.68031	0.59686	0.62593	0.69224	0.78999	0.73920
L12	14:23:52	0.62506	0.74762	0.62978	0.58876	0.67215	0.62324	0.68008	0.59675	0.62577	0.69206	0.78983	0.73913
L13	14:26:53	0.62481	0.74737	0.62871	0.58756	0.67103	0.62193	0.67734	0.59427	0.62131	0.68838	0.78544	0.73420
L13	14:27:22	0.62479	0.74736	0.62861	0.58751	0.67095	0.62191	0.67733	0.59422	0.62121	0.68832	0.78533	0.73409
L13	14:28:39	0.62481	0.74739	0.62860	0.58749	0.67085	0.62181	0.67747	0.59405	0.62102	0.68814	0.78515	0.73390
L13	14:30:24	0.62477	0.74737	0.62845	0.58732	0.67018	0.62173	0.67763	0.59407	0.62100	0.68812	0.78518	0.73386
L14	14:32:14	0.62442	0.74717	0.62736	0.58623	0.66921	0.62033	0.67481	0.59155	0.61672	0.68451	0.78051	0.72882
L14	14:32:45	0.62441	0.74713	0.62733	0.58622	0.66925	0.62027	0.67484	0.59143	0.61670	0.68460	0.78049	0.72880
L14	14:33:44	0.62441	0.74713	0.62721	0.58599	0.66930	0.62003	0.67454	0.59119	0.61643	0.68394	0.78051	0.72882
L14	14:35:48	0.62440	0.74718	0.62713	0.58590	0.66919	0.61993	0.67449	0.59116	0.61638	0.68388	0.78042	0.72871
L15	14:38:02	0.62424	0.74683	0.62580	0.58466	0.66772	0.61826	0.67172	0.58827	0.61216	0.68025	0.77608	0.72392
L15	14:38:32	0.62430	0.74686	0.62578	0.58459	0.66773	0.61821	0.67164	0.58824	0.61212	0.67983	0.77587	0.72365
L15	14:39:38	0.62423	0.74682	0.62566	0.58441	0.66741	0.61807	0.67137	0.58806	0.61194	0.67962	0.77580	0.72388
L15	14:41:32	0.62420	0.74678	0.62550	0.58424	0.66717	0.61777	0.67083	0.58777	0.61169	0.67948	0.77569	0.72370
L16	14:44:34	0.62367	0.74657	0.62410	0.58278	0.66536	0.61593	0.66779	0.58497	0.60728	0.67552	0.77109	0.71890
L16	14:45:04	0.62363	0.74654	0.62398	0.58269	0.66553	0.61565	0.66802	0.58460	0.60716	0.67537	0.77103	0.71904
L16	14:46:04	0.62361	0.74654	0.62380	0.58252	0.66528	0.61555	0.66742	0.58440	0.60679	0.67502	0.77108	0.71907
L16	14:48:04	0.62359	0.74651	0.62355	0.58222	0.66482	0.61516	0.66696	0.58408	0.60638	0.67477	0.77112	0.71911
L16A	14:51:40	0.62353	0.74647	0.62310	0.58188	0.66381	0.61469	0.66651	0.58369	0.60601	0.67436	0.77113	0.71912
L17	14:53:32	0.62302	0.74605	0.62174	0.58033	0.66263	0.61276	0.66347	0.58043	0.60129	0.67035	0.76650	0.71375
L17	14:54:05	0.62300	0.74600	0.62154	0.58014	0.66229	0.61261	0.66332	0.58056	0.60134	0.67041	0.76672	0.71381
L17	14:55:03	0.62293	0.74592	0.62136	0.57983	0.66215	0.61232	0.66295	0.58005	0.60145	0.67017	0.76632	0.71341
L17	14:57:04	0.62291	0.74582	0.62102	0.57958	0.66158	0.61190	0.66275	0.57963	0.60126	0.67009	0.76651	0.71360
L18	14:59:19	0.62240	0.74487	0.61918	0.57755	0.65879	0.60949	0.65910	0.57606	0.59531	0.66599	0.76204	0.70826
L18	14:59:49	0.62233	0.74477	0.61909	0.57755	0.65853	0.60941	0.65887	0.57621	0.59516	0.66599	0.76183	0.70797
L18	15:00:49	0.62218	0.74451	0.61882	0.57736	0.65894	0.60909	0.65836	0.57605	0.59507	0.66605	0.76207	0.70825
L18	15:02:52	0.62218	0.74404	0.61889	0.57730	0.65875	0.60859	0.65799	0.57553	0.59534	0.66611	0.76211	0.70761
L19	15:05:00	0.62230	0.74360	0.61894	0.57740	0.65890	0.60874	0.65744	0.57576	0.59316	0.66608	0.76152	0.70566
L19	15:05:31	0.62242	0.74366	0.61897	0.57741	0.65898	0.60887	0.65749	0.57587	0.59325	0.66600	0.76196	0.70600
L19	15:06:30	0.62246	0.74383	0.61890	0.57739	0.65885	0.60868	0.65728	0.57605	0.59319	0.66622	0.76244	0.70578

Table F.33 continued

VIBRATING WIRE INSTRUMENT READINGS - STRAIN

SBZ 6 LOAD NUMBER	TIME	VW STRN FREQ^2 KHZ^2 29	VW STRN FREQ^2 KHZ^2 30	VW STRN FREQ^2 KHZ^2 5	VW STRN FREQ^2 KHZ^2 6	VW STRN FREQ^2 KHZ^2 37	VW STRN FREQ^2 KHZ^2 38	VW STRN FREQ^2 KHZ^2 23	VW STRN FREQ^2 KHZ^2 24	VW STRN FREQ^2 KHZ^2 25	VW STRN FREQ KHZ^2 26	VW STRN FREQ KHZ^2 27	VW STRN FREQ KHZ^2 28
L19	15:08:16	0.62237	0.74381	0.61847	0.57692	0.65837	0.60796	0.65656	0.57638	0.59316	0.66649	0.76385	0.70541
U1	15:11:53	0.62277	0.74432	0.61926	0.57776	0.65939	0.60950	0.65975	0.57974	0.59909	0.67209	0.77066	0.71299
U2	15:17:10	0.62308	0.74469	0.62083	0.57942	0.66112	0.61177	0.66373	0.58372	0.60564	0.67862	0.77902	0.71887
U3	15:22:28	0.62427	0.74581	0.62401	0.58265	0.66593	0.61622	0.67078	0.59063	0.61571	0.68804	0.79107	0.73160
U4	15:27:09	0.62573	0.74723	0.62851	0.58735	0.67157	0.62210	0.67970	0.59897	0.62926	0.70127	0.80503	0.74780
U5	15:32:16	0.62778	0.74931	0.63545	0.59440	0.67953	0.63029	0.69222	0.61143	0.64969	0.71816	0.82369	0.77080
U6	15:37:24	0.62901	0.75085	0.64072	0.59967	0.68538	0.63653	0.70305	0.62132	0.67047	0.73199	0.84045	0.79305
U6A	15:40:42	0.62903	0.75089	0.64085	0.59983	0.68554	0.63671	0.70332	0.62140	0.67058	0.73192	0.84019	0.79278
U6A	15:55:42	0.62911	0.75092	0.64100	0.60008	0.68575	0.63690	0.70368	0.62150	0.67076	0.73185	0.84030	0.79370
U6A	16:10:42	0.62904	0.75091	0.64103	0.60012	0.68578	0.63695	0.70374	0.62142	0.67064	0.73174	0.84033	0.79298
U6A	16:25:42	0.62906	0.75092	0.64107	0.60016	0.68581	0.63700	0.70382	0.62139	0.67063	0.73171	0.84035	0.79297
U6A	16:40:42	0.62912	0.75094	0.64121	0.60026	0.68585	0.63715	0.70393	0.62156	0.67091	0.73187	0.84022	0.79379
U6A	16:55:42	0.62892	0.75090	0.64116	0.60022	0.68585	0.63711	0.70394	0.62147	0.67086	0.73179	0.84021	0.79375
U6A	17:10:42	0.62885	0.75089	0.64116	0.60020	0.68585	0.63712	0.70389	0.62146	0.67091	0.73181	0.84024	0.79378
U6A	17:25:42	0.62891	0.75090	0.64121	0.60024	0.68585	0.63715	0.70395	0.62149	0.67099	0.73183	0.84024	0.79380
U6A	17:40:42	0.62891	0.75090	0.64119	0.60022	0.68585	0.63715	0.70402	0.62146	0.67095	0.73178	0.84023	0.79378
U6A	17:41:32	0.62891	0.75090	0.64120	0.60023	0.68584	0.63714	0.70404	0.62145	0.67095	0.73178	0.84020	0.79376

Table F.33 continued

VIBRATING WIRE INSTRUMENT READINGS - TEMPERATURE

SBZ 6 LOAD NUMBER	TIME	VW STRN TEMP DEG C 29	VW STRN TEMP DEG C 30	VW STRN TEMP DEG C 5	VW STRN TEMP DEG C 6	VW STRN TEMP DEG C 37	VW STRN TEMP DEG C 38	VW STRN TEMP DEG C 23	VW STRN TEMP DEG C 24	VW STRN TEMP DEG C 25	VW STRN TEMP DEG C 26	VW STRN TEMP DEG C 27	VW STRN TEMP DEG C 28
L0	11:31:48	21.814	22.030	18.794	17.589	19.866	17.881	19.179	19.986	18.498	22.435	16.312	20.469
L0	11:33:39	21.843	22.060	18.822	17.558	19.895	17.880	19.208	19.955	18.526	22.433	16.340	20.437
L0	11:35:15	21.843	22.060	18.822	17.558	19.865	17.880	19.208	19.955	18.556	22.433	16.311	20.437
L0	11:50:15	21.808	22.056	18.818	17.584	19.891	17.876	19.204	19.981	18.552	22.431	16.338	20.496
L0	12:05:15	21.808	22.024	18.818	17.554	19.861	17.905	19.174	19.951	18.552	22.460	16.336	20.463
L0	12:20:15	21.838	22.055	18.817	17.583	19.890	17.875	19.173	19.980	18.551	22.428	16.335	20.493
L0	12:35:15	21.838	22.023	18.817	17.553	19.920	17.904	19.173	19.950	18.551	22.459	16.335	20.462
L0	12:50:15	21.838	22.054	18.817	17.582	19.920	17.875	19.143	19.980	18.551	22.428	16.335	20.492
L0	13:05:15	21.838	22.054	18.817	17.553	19.920	17.904	19.173	19.950	18.551	22.459	16.335	20.462
L0	13:11:31	21.807	22.023	18.817	17.553	19.920	17.904	19.173	19.950	18.551	22.459	16.335	20.462
L1	13:15:42	21.805	22.052	18.815	17.581	19.918	17.873	19.171	19.978	18.549	22.425	16.333	20.490
L1	13:16:08	21.805	22.083	18.815	17.581	19.888	17.902	19.171	19.978	18.519	22.457	16.333	20.490
L1	13:17:16	21.835	22.083	18.785	17.581	19.918	17.902	19.141	19.978	18.549	22.457	16.305	20.490
L1	13:19:08	21.834	22.082	18.784	17.579	19.916	17.901	19.140	19.976	18.547	22.455	16.303	20.489
L2	13:23:28	21.802	22.080	18.812	17.578	19.885	17.900	19.168	19.975	18.517	22.454	16.331	20.487
L2	13:23:59	21.833	22.080	18.812	17.578	19.915	17.870	19.168	19.975	18.546	22.422	16.331	20.487
L2	13:24:57	21.831	22.079	18.811	17.577	19.884	17.899	19.167	19.974	18.516	22.453	16.330	20.486
L2	13:27:00	21.831	22.079	18.782	17.577	19.914	17.899	19.137	19.974	18.545	22.453	16.300	20.486
L3	13:29:27	21.831	22.078	18.810	17.576	19.913	17.869	19.166	19.973	18.544	22.421	16.329	20.486
L3	13:29:57	21.831	22.078	18.781	17.576	19.913	17.898	19.137	19.973	18.544	22.452	16.329	20.485
L3	13:30:55	21.830	22.078	18.810	17.576	19.912	17.868	19.166	19.972	18.544	22.420	16.329	20.485
L3	13:32:59	21.799	22.078	18.810	17.547	19.912	17.897	19.166	19.942	18.543	22.450	16.328	20.454
L4	13:35:42	21.829	22.046	18.809	17.604	19.912	17.868	19.165	19.972	18.543	22.419	16.328	20.484
L4	13:36:13	21.829	22.077	18.779	17.604	19.911	17.896	19.135	19.972	18.543	22.450	16.328	20.484
L4	13:37:06	21.829	22.077	18.809	17.575	19.911	17.896	19.165	19.941	18.543	22.450	16.357	20.454
L4	13:39:06	21.827	22.074	18.807	17.544	19.909	17.894	19.163	19.939	18.541	22.448	16.326	20.452
L5	13:41:02	21.827	22.043	18.807	17.602	19.909	17.865	19.163	19.969	18.541	22.416	16.326	20.482
L5	13:41:33	21.827	22.074	18.807	17.602	19.909	17.924	19.163	19.969	18.541	22.448	16.326	20.482
L5	13:42:33	21.827	22.074	18.836	17.602	19.879	17.894	19.192	19.969	18.511	22.448	16.355	20.482
L5	13:44:31	21.827	22.074	18.836	17.573	19.909	17.865	19.192	19.969	18.541	22.417	16.326	20.482
L6	13:47:01	21.827	22.074	18.807	17.602	19.909	17.895	19.133	19.939	18.541	22.417	16.326	20.482
L6	13:47:52	21.796	22.075	18.837	17.602	19.880	17.895	19.193	19.970	18.512	22.448	16.355	20.482
L6	13:48:30	21.827	22.044	18.837	17.602	19.910	17.895	19.163	19.970	18.541	22.417	16.355	20.482
L6	13:50:30	21.858	22.044	18.837	17.573	19.910	17.865	19.193	19.970	18.541	22.415	16.353	20.480
L7	13:52:28	21.825	22.073	18.805	17.601	19.908	17.893	19.161	19.968	18.539	22.446	16.325	20.480
L7	13:52:58	21.825	22.073	18.835	17.571	19.908	17.893	19.191	19.938	18.539	22.446	16.353	20.480
L7	13:53:58	21.792	22.040	18.804	17.599	19.906	17.891	19.189	19.966	18.538	22.444	16.352	20.479
L7	13:55:58	21.823	22.040	18.833	17.599	19.906	17.891	19.189	19.966	18.538	22.413	16.352	20.479
L8	13:58:10	21.822	22.070	18.832	17.569	19.905	17.920	19.188	19.965	18.537	22.443	16.351	20.477
L8	13:58:35	21.822	22.070	18.832	17.569	19.905	17.920	19.188	19.965	18.537	22.443	16.351	20.447
L8	13:59:33	21.822	22.070	18.802	17.597	19.904	17.889	19.158	19.994	18.536	22.442	16.321	20.476
L8	14:01:34	21.821	22.038	18.831	17.597	19.904	17.889	19.187	19.964	18.536	22.442	16.350	20.476
L9	14:03:39	21.820	22.068	18.831	17.567	19.903	17.918	19.186	19.933	18.535	22.441	16.349	20.476

Table F.33 continued

VIBRATING WIRE INSTRUMENT READINGS - TEMPERATURE

SBZ 6 LOAD NUMBER	TIME	VW STRN TEMP DEG C 29	VW STRN TEMP DEG C 30	VW STRN TEMP DEG C 5	VW STRN TEMP DEG C 6	VW STRN TEMP DEG C 37	VW STRN TEMP DEG C 38	VW STRN TEMP DEG C 23	VW STRN TEMP DEG C 24	VW STRN TEMP DEG C 25	VW STRN TEMP DEG C 26	VW STRN TEMP DEG C 27	VW STRN TEMP DEG C 28
L9	14:04:14	21.820	22.037	18.831	17.596	19.903	17.859	19.186	19.993	18.535	22.410	16.349	20.476
L9	14:05:10	21.820	22.037	18.831	17.596	19.903	17.889	19.186	19.993	18.535	22.409	16.349	20.505
L9	14:07:11	21.850	22.036	18.830	17.596	19.903	17.888	19.186	19.963	18.535	22.440	16.349	20.475
L10	14:09:03	21.819	22.067	18.829	17.595	19.902	17.888	19.185	19.992	18.534	22.471	16.348	20.505
L10	14:09:34	21.819	22.036	18.829	17.595	19.902	17.888	19.185	19.962	18.534	22.440	16.348	20.505
L10	14:10:41	21.819	22.067	18.829	17.595	19.872	17.917	19.185	19.962	18.505	22.471	16.348	20.505
L10	14:12:41	21.819	22.066	18.829	17.595	19.872	17.917	19.185	19.962	18.504	22.471	16.348	20.474
L11	14:15:04	21.787	22.066	18.829	17.595	19.871	17.916	19.185	19.961	18.504	22.470	16.348	20.474
L11	14:15:33	21.818	22.066	18.799	17.595	19.901	17.916	19.155	19.961	18.533	22.470	16.319	20.504
L11	14:16:33	21.818	22.066	18.829	17.595	19.871	17.916	19.185	19.961	18.504	22.470	16.348	20.504
L11	14:18:34	21.818	22.066	18.829	17.565	19.901	17.916	19.184	19.931	18.533	22.470	16.347	20.474
L12	14:20:20	21.818	22.065	18.799	17.594	19.901	17.916	19.155	19.961	18.533	22.470	16.318	20.504
L12	14:20:52	21.818	22.065	18.799	17.594	19.901	17.916	19.155	19.961	18.533	22.470	16.318	20.473
L12	14:21:50	21.818	22.034	18.828	17.594	19.901	17.887	19.184	19.991	18.533	22.439	16.347	20.504
L12	14:23:52	21.787	22.065	18.828	17.594	19.871	17.916	19.184	19.991	18.503	22.470	16.347	20.504
L13	14:26:53	21.818	22.065	18.799	17.594	19.901	17.916	19.184	19.991	18.533	22.470	16.318	20.503
L13	14:27:22	21.818	22.065	18.828	17.565	19.901	17.916	19.184	19.961	18.533	22.470	16.347	20.473
L13	14:28:39	21.818	22.065	18.828	17.594	19.901	17.886	19.184	19.991	18.533	22.438	16.347	20.503
L13	14:30:24	21.787	22.065	18.828	17.594	19.871	17.915	19.184	19.991	18.533	22.469	16.347	20.473
L14	14:32:14	21.817	22.034	18.828	17.594	19.901	17.886	19.184	19.991	18.533	22.469	16.347	20.503
L14	14:32:45	21.817	22.065	18.798	17.594	19.901	17.915	19.154	19.961	18.533	22.469	16.347	20.503
L14	14:33:44	21.786	22.065	18.828	17.594	19.871	17.915	19.184	19.991	18.562	22.469	16.347	20.503
L14	14:35:48	21.817	22.065	18.798	17.594	19.900	17.915	19.154	19.961	18.532	22.469	16.318	20.503
L15	14:38:02	21.817	22.065	18.828	17.565	19.900	17.915	19.184	19.960	18.532	22.469	16.347	20.473
L15	14:38:32	21.786	22.065	18.828	17.594	19.870	17.915	19.184	19.990	18.562	22.469	16.347	20.503
L15	14:39:38	21.817	22.065	18.828	17.565	19.900	17.915	19.184	19.990	18.532	22.469	16.347	20.503
L15	14:41:32	21.817	22.065	18.798	17.594	19.900	17.915	19.184	19.960	18.532	22.469	16.347	20.503
L16	14:44:34	21.817	22.065	18.828	17.564	19.900	17.915	19.184	19.990	18.532	22.438	16.347	20.473
L16	14:45:04	21.817	22.065	18.828	17.594	19.870	17.915	19.184	19.990	18.562	22.469	16.347	20.503
L16	14:46:04	21.817	22.065	18.828	17.594	19.900	17.915	19.154	19.990	18.562	22.469	16.318	20.503
L16	14:48:04	21.817	22.065	18.798	17.594	19.900	17.915	19.154	19.990	18.532	22.469	16.347	20.473
L16A	14:51:40	21.817	22.065	18.798	17.594	19.900	17.915	19.184	19.960	18.532	22.438	16.347	20.503
L17	14:53:32	21.817	22.065	18.798	17.594	19.900	17.915	19.154	19.960	18.532	22.469	16.318	20.503
L17	14:54:05	21.817	22.065	18.798	17.594	19.900	17.915	19.154	19.990	18.562	22.469	16.347	20.503
L17	14:55:03	21.817	22.065	18.828	17.594	19.900	17.915	19.184	19.990	18.532	22.471	16.348	20.505
L17	14:57:04	21.788	22.067	18.829	17.595	19.872	17.917	19.185	19.992	18.534	22.440	16.348	20.505
L18	14:59:19	21.821	22.068	18.831	17.597	19.904	17.889	19.187	19.994	18.565	22.442	16.350	20.476
L18	14:59:49	21.821	22.068	18.801	17.597	19.904	17.918	19.157	19.994	18.565	22.473	16.321	20.506
L18	15:00:49	21.821	22.068	18.831	17.597	19.874	17.918	19.187	19.994	18.536	22.473	16.350	20.506
L18	15:02:52	21.822	22.070	18.803	17.598	19.905	17.920	19.188	19.995	18.537	22.474	16.322	20.508
L19	15:05:00	21.823	22.071	18.833	17.599	19.906	17.920	19.159	19.996	18.538	22.475	16.323	20.509
L19	15:05:31	21.823	22.071	18.833	17.570	19.906	17.920	19.159	19.996	18.538	22.475	16.352	20.509
L19	15:06:30	21.823	22.040	18.833	17.599	19.906	17.891	19.189	19.996	18.567	22.475	16.352	20.509

Table F.33 continued

VIBRATING WIRE INSTRUMENT READINGS - TEMPERATURE

SBZ 6 LOAD NUMBER	TIME	VW STRN TEMP DEG C 29	VW STRN TEMP DEG C 30	VW STRN TEMP DEG C 5	VW STRN TEMP DEG C 6	VW STRN TEMP DEG C 37	VW STRN TEMP DEG C 38	VW STRN TEMP DEG C 23	VW STRN TEMP DEG C 24	VW STRN TEMP DEG C 25	VW STRN TEMP DEG C 26	VW STRN TEMP DEG C 27	VW STRN TEMP DEG C 28
L19	15:08:16	21.793	22.071	18.834	17.600	19.907	17.921	19.190	19.967	18.538	22.476	16.352	20.509
U1	15:11:53	21.825	22.072	18.835	17.600	19.877	17.922	19.190	19.967	18.510	22.446	16.353	20.510
U2	15:17:10	21.826	22.042	18.835	17.601	19.908	17.923	19.191	19.968	18.540	22.415	16.354	20.481
U3	15:22:28	21.826	22.074	18.806	17.602	19.909	17.894	19.162	19.969	18.540	22.447	16.354	20.481
U4	15:27:09	21.828	22.076	18.838	17.604	19.911	17.896	19.164	19.971	18.542	22.449	16.356	20.484
U5	15:32:16	21.797	22.076	18.808	17.574	19.881	17.896	19.164	19.971	18.513	22.449	16.327	20.483
U6	15:37:24	21.828	22.075	18.778	17.603	19.910	17.895	19.164	19.970	18.542	22.449	16.298	20.483
U6A	15:40:42	21.828	22.075	18.808	17.574	19.910	17.895	19.164	19.940	18.542	22.449	16.327	20.483
U6A	15:55:42	21.833	22.050	18.813	17.579	19.916	17.871	19.169	19.976	18.547	22.423	16.332	20.488
U6A	16:10:42	21.836	22.053	18.815	17.552	19.918	17.903	19.171	19.948	18.549	22.457	16.334	20.461
U6A	16:25:42	21.837	22.023	18.816	17.582	19.919	17.904	19.172	19.979	18.550	22.427	16.335	20.492
U6A	16:40:42	21.837	22.054	18.817	17.582	19.919	17.904	19.173	19.978	18.549	22.457	16.333	20.490
U6A	16:55:42	21.837	22.022	18.816	17.582	19.919	17.874	19.172	19.979	18.550	22.458	16.335	20.492
U6A	17:10:42	21.837	22.054	18.816	17.553	19.889	17.904	19.172	19.979	18.551	22.459	16.335	20.492
U6A	17:25:42	21.837	22.023	18.817	17.582	19.889	17.904	19.173	19.980	18.551	22.459	16.335	20.492
U6A	17:40:42	21.837	22.054	18.817	17.582	19.889	17.875	19.173	19.950	18.551	22.459	16.335	20.462
U6A	17:41:32	21.837	22.054	18.787	17.582	19.889	17.875	19.143	19.980	18.551	22.427	16.335	20.462

Table F.33 continued

VIBRATING WIRE CALCULATED STRAIN

SBZ 6 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 29	VW STRN MICRO STRAIN 30	VW STRN MICRO STRAIN 5	VW STRN MICRO STRAIN 6	VW STRN MICRO STRAIN 37	VW STRN MICRO STRAIN 38	VW STRN MICRO STRAIN 23	VW STRN MICRO STRAIN 24	VW STRN MICRO STRAIN 25	VW STRN MICRO STRAIN 26	VW STRN MICRO STRAIN 27	VW STRN MICRO STRAIN 28
L0	11:31:48	-1.2	-0.9	-0.8	-0.7	-0.9	-0.9	-0.2	-0.6	-0.3	-0.4	-0.3	-0.8
L0	11:33:39	-1.2	-0.9	-0.9	-0.7	-1.2	-0.9	-0.3	-0.6	-0.2	-0.4	-0.2	0.0
L0	11:35:15	-1.3	-1.0	-0.9	-0.7	-1.1	-0.9	-0.4	-0.6	-0.2	-0.4	-0.3	-0.1
L0	11:50:15	-1.2	-1.0	-0.9	-0.7	-1.0	-0.9	-0.2	-0.7	-0.3	-0.4	-0.3	0.2
L0	12:05:15	-1.1	-0.7	-0.7	-0.4	-0.6	-0.8	-0.2	-0.5	-0.2	-0.4	-0.2	0.2
L0	12:20:15	-1.1	-0.7	-0.6	-0.3	-0.6	-0.7	-0.2	-0.5	-0.2	-0.3	-0.2	-0.3
L0	12:35:15	-0.9	-0.5	-0.4	-0.0	-0.4	-0.6	-0.1	-0.3	-0.1	-0.3	-0.2	0.2
L0	12:50:15	-0.5	-0.2	-0.2	0.2	-0.2	-0.3	-0.0	-0.2	-0.1	-0.1	-0.1	-0.5
L0	13:05:15	-0.2	-0.1	0.0	-0.1	-0.0	-0.1	0.0	0.0	0.0	-0.1	0.0	0.0
L0	13:11:31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
L1	13:15:42	0.7	0.3	1.7	1.8	3.3	2.7	4.3	4.0	7.2	7.1	11.2	6.2
L1	13:16:08	0.6	0.4	1.7	1.8	3.4	2.6	4.3	3.9	7.2	7.1	11.2	6.1
L1	13:17:16	0.6	0.4	1.7	1.8	3.5	2.7	4.5	4.0	7.5	7.7	12.1	9.4
L1	13:19:08	0.7	0.4	2.2	2.2	3.1	3.2	5.3	4.7	8.5	7.9	12.6	9.8
L2	13:23:28	0.9	1.5	3.2	3.8	4.6	5.0	7.9	8.2	14.5	14.0	20.4	16.8
L2	13:23:59	0.9	1.5	3.2	3.9	5.0	5.3	8.9	8.9	15.9	14.9	20.5	17.6
L2	13:24:57	0.9	1.4	3.5	3.9	5.1	5.3	8.9	8.9	15.9	14.9	20.8	17.5
L2	13:27:00	0.9	2.0	3.9	1.9	5.5	5.8	10.1	9.7	17.8	16.4	21.0	19.1
L3	13:29:27	1.0	2.7	7.1	7.1	9.0	9.7	16.6	15.7	28.9	25.9	34.0	32.9
L3	13:29:57	1.0	2.6	7.1	7.1	9.0	9.6	16.5	15.8	29.1	25.9	33.5	33.5
L3	13:30:55	1.0	2.7	7.2	7.2	9.1	9.8	16.9	15.9	29.1	26.0	33.6	33.3
L3	13:32:59	1.1	2.8	7.3	7.3	9.3	9.9	17.3	16.1	29.2	26.0	33.4	33.7
L4	13:35:42	2.4	3.3	10.5	10.2	13.7	14.3	24.4	23.4	43.2	37.7	46.1	49.6
L4	13:36:13	2.4	3.2	10.6	10.0	13.7	14.2	24.4	23.3	43.1	37.6	45.9	49.4
L4	13:37:06	2.4	3.3	10.6	9.6	13.7	14.4	24.6	23.5	43.4	37.6	46.4	50.0
L4	13:39:06	2.5	3.3	10.8	8.9	13.8	14.5	24.8	23.7	43.4	37.6	46.9	50.3
L5	13:41:02	3.2	3.9	14.1	14.2	17.3	18.7	31.5	31.1	58.0	49.5	61.3	66.5
L5	13:41:33	3.2	3.9	14.2	14.3	17.5	18.7	31.6	31.2	58.2	49.6	61.5	66.7
L5	13:42:33	3.3	3.9	14.3	14.4	17.6	18.8	31.8	31.3	58.1	49.4	61.2	66.4
L5	13:44:31	3.3	3.9	14.4	14.6	17.9	19.2	33.1	31.6	58.7	49.8	61.5	66.9
L6	13:47:01	4.9	4.3	18.1	18.1	22.1	23.2	40.4	39.3	74.1	62.2	76.1	83.4
L6	13:47:52	5.0	4.3	18.2	18.2	22.2	23.3	40.5	39.4	74.3	62.3	76.1	83.7
L6	13:48:30	5.0	4.3	18.2	18.3	22.2	23.4	40.8	39.4	74.4	62.5	76.0	83.8
L6	13:50:30	5.1	4.4	18.4	18.4	22.3	23.7	41.2	39.6	74.6	63.0	76.2	84.5
L7	13:52:28	6.0	5.0	21.5	21.7	26.4	27.5	48.7	47.1	88.9	75.7	90.6	100.5
L7	13:52:58	6.0	5.0	21.6	21.8	26.5	27.6	48.7	47.1	89.0	75.7	90.6	100.7
L7	13:53:58	6.1	5.0	21.8	21.9	26.8	27.8	49.1	47.2	89.5	75.9	90.7	100.7
L7	13:55:58	6.0	5.1	21.9	22.0	26.9	28.0	49.5	47.2	90.2	76.2	91.1	101.3
L8	13:58:10	6.4	6.0	24.9	24.9	29.8	31.6	56.9	54.4	104.8	87.4	105.5	117.7
L8	13:58:35	6.4	6.0	25.0	25.0	29.9	31.6	57.0	54.4	105.0	87.5	105.6	117.2
L8	13:59:33	6.4	6.0	25.1	25.1	29.9	31.8	57.3	54.8	105.5	88.3	106.7	117.8
L8	14:01:34	6.4	6.1	25.2	25.4	30.1	32.1	57.5	55.2	105.8	88.8	106.8	118.0
L9	14:03:39	7.4	6.8	28.3	28.6	35.2	36.0	66.0	63.5	120.8	102.9	120.2	134.0

Table F.33 continued

VIBRATING WIRE CALCULATED STRAIN

SBZ 6 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 29	VW STRN MICRO STRAIN 30	VW STRN MICRO STRAIN 5	VW STRN MICRO STRAIN 6	VW STRN MICRO STRAIN 37	VW STRN MICRO STRAIN 38	VW STRN MICRO STRAIN 23	VW STRN MICRO STRAIN 24	VW STRN MICRO STRAIN 25	VW STRN MICRO STRAIN 26	VW STRN MICRO STRAIN 27	VW STRN MICRO STRAIN 28
L9	14:04:14	7.3	6.7	28.4	28.6	35.2	36.1	66.0	63.4	120.7	102.8	120.6	134.6
L9	14:05:10	7.3	6.8	28.6	28.7	35.7	36.1	66.0	63.6	121.1	103.5	120.5	134.3
L9	14:07:11	7.3	6.8	28.9	28.9	36.4	36.2	66.0	64.1	121.7	104.6	120.9	135.2
L10	14:09:03	7.8	7.5	31.7	31.8	38.3	40.1	73.8	72.3	137.0	115.5	136.4	151.7
L10	14:09:34	7.8	7.6	31.7	31.9	38.4	40.2	73.6	72.3	136.9	115.3	136.3	151.5
L10	14:10:41	7.8	7.3	31.8	32.0	38.6	40.4	73.9	72.8	137.6	116.3	136.9	152.2
L10	14:12:41	7.8	7.3	32.0	32.2	38.8	40.6	74.1	73.0	137.9	116.7	137.0	152.6
L11	14:15:04	8.6	8.3	35.5	35.6	42.6	44.3	82.2	80.9	153.1	128.2	150.1	169.1
L11	14:15:33	8.6	8.4	35.6	35.7	42.6	44.5	82.1	81.1	153.4	128.6	152.6	169.0
L11	14:16:33	8.6	8.3	35.7	35.8	42.8	44.6	82.1	81.3	153.7	129.3	153.2	169.4
L11	14:18:34	8.6	8.3	36.0	36.1	43.1	45.0	82.5	81.6	153.9	129.5	153.3	169.6
L12	14:20:20	10.0	9.2	39.1	39.2	47.2	49.0	91.0	89.1	168.8	141.9	167.7	186.2
L12	14:20:52	10.0	9.2	39.3	39.3	47.5	49.2	91.1	89.2	169.1	142.1	167.9	186.2
L12	14:21:50	10.0	9.2	39.4	39.6	47.9	49.5	91.7	89.4	169.4	142.3	168.2	186.3
L12	14:23:52	10.0	9.1	39.7	39.8	48.4	49.8	92.5	89.7	170.0	142.9	168.7	186.6
L13	14:26:53	10.8	9.9	43.2	43.8	52.1	54.1	101.5	97.9	184.7	155.0	183.2	202.8
L13	14:27:22	10.8	10.0	43.5	44.0	52.4	54.2	101.6	98.1	185.0	155.2	183.6	203.2
L13	14:28:39	10.8	9.9	43.6	44.0	52.7	54.6	101.1	98.7	185.6	155.9	184.1	203.8
L13	14:30:24	10.9	9.9	44.1	44.6	54.9	54.8	100.6	98.6	185.7	155.9	184.1	204.0
L14	14:32:14	12.0	10.6	47.7	48.2	58.1	59.5	109.9	106.9	199.8	167.8	199.5	220.6
L14	14:32:45	12.1	10.7	47.8	48.2	58.0	59.6	109.8	107.4	199.9	167.5	199.5	220.7
L14	14:33:44	12.1	10.7	48.2	48.9	57.9	60.4	110.8	108.1	200.8	169.7	199.5	220.6
L14	14:35:48	12.1	10.6	48.5	49.2	58.2	60.7	111.0	108.3	201.0	169.9	199.8	221.0
L15	14:38:02	12.6	11.7	52.8	53.4	63.0	66.3	120.1	117.8	214.9	181.9	214.1	236.8
L15	14:38:32	12.5	11.6	52.9	53.6	63.0	66.4	120.4	117.9	215.0	183.3	214.8	237.7
L15	14:39:38	12.7	11.7	53.3	54.2	64.1	66.9	121.2	118.5	215.6	184.0	215.0	236.9
L15	14:41:32	12.8	11.9	53.8	54.7	64.9	67.9	123.0	119.5	216.5	184.4	215.4	237.5
L16	14:44:34	14.5	12.6	58.4	59.6	70.8	74.0	133.1	128.7	231.0	197.6	230.6	253.4
L16	14:45:04	14.7	12.7	58.8	59.8	70.3	74.9	132.3	129.9	231.4	198.0	230.8	252.9
L16	14:46:04	14.7	12.7	59.4	60.4	71.1	75.2	134.3	130.6	232.6	199.2	230.7	252.8
L16	14:48:04	14.8	12.8	60.3	61.4	72.6	76.5	135.9	131.6	234.0	200.0	230.5	252.7
L16A	14:51:40	15.0	12.9	61.8	62.5	76.0	78.1	137.3	132.9	235.2	201.4	230.5	252.7
L17	14:53:32	16.7	14.3	66.3	67.6	79.9	84.4	147.4	143.7	250.8	214.6	245.8	270.4
L17	14:54:05	16.7	14.4	66.9	68.3	81.0	84.9	147.9	143.2	250.6	214.4	245.0	270.2
L17	14:55:03	17.0	14.7	67.5	69.3	81.4	85.9	149.1	144.9	250.3	215.2	246.4	271.5
L17	14:57:04	17.1	15.0	68.6	70.1	83.4	87.3	149.7	146.3	250.9	215.5	245.7	270.9
L18	14:59:19	18.7	18.2	74.7	76.8	92.5	95.3	161.8	158.1	270.5	229.1	260.5	288.6
L18	14:59:49	18.9	18.5	75.0	76.8	93.4	95.5	162.6	157.6	271.0	229.0	261.2	289.5
L18	15:00:49	19.4	19.4	75.9	77.5	92.1	96.6	164.2	158.1	271.4	228.8	260.4	288.6
L18	15:02:52	19.4	20.9	75.7	77.7	92.7	98.2	165.4	159.9	270.5	228.6	260.3	290.7
L19	15:05:00	19.0	22.4	75.5	77.3	92.2	97.7	167.3	159.1	277.7	228.7	262.3	297.1
L19	15:05:31	18.6	22.2	75.4	77.3	91.9	97.3	167.1	158.7	277.4	229.0	260.8	296.0
L19	15:06:30	18.5	21.7	75.6	77.4	92.3	97.9	167.8	158.1	277.5	228.3	259.2	296.7

Table F.33 continued

VIBRATING WIRE CALCULATED STRAIN

SBZ 6 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 29	VW STRN MICRO STRAIN 30	VW STRN MICRO STRAIN 5	VW STRN MICRO STRAIN 6	VW STRN MICRO STRAIN 37	VW STRN MICRO STRAIN 38	VW STRN MICRO STRAIN 23	VW STRN MICRO STRAIN 24	VW STRN MICRO STRAIN 25	VW STRN MICRO STRAIN 26	VW STRN MICRO STRAIN 27	VW STRN MICRO STRAIN 28
L19	15:08:16	18.9	21.7	77.0	78.9	93.9	100.3	170.2	157.1	277.7	227.4	254.5	298.0
U1	15:11:53	17.5	20.0	74.4	76.1	90.6	95.2	159.6	146.0	258.1	208.9	232.0	272.9
U2	15:17:10	16.5	18.8	69.2	70.6	84.8	87.7	146.5	132.8	236.4	187.4	204.4	253.5
U3	15:22:28	12.5	15.1	58.8	60.0	68.9	73.0	123.2	110.0	203.2	156.2	164.6	211.5
U4	15:27:09	7.7	10.4	43.8	44.4	50.3	53.6	93.7	82.4	158.4	112.5	118.5	157.9
U5	15:32:16	1.0	3.5	21.0	21.2	24.0	26.5	52.4	41.3	90.9	56.7	56.8	81.9
U6	15:37:24	-3.1	-1.6	3.6	3.7	4.7	5.9	16.6	8.6	22.2	11.0	1.5	8.4
U6A	15:40:42	-3.2	-1.7	3.1	3.2	4.1	5.3	15.7	8.4	21.9	11.2	2.3	9.3
U6A	15:55:42	-3.5	-1.8	2.6	2.4	3.4	4.7	14.5	8.0	21.3	11.5	2.0	6.3
U6A	16:10:42	-3.2	-1.8	2.5	2.3	3.3	4.5	14.3	8.3	21.7	11.8	1.9	8.7
U6A	16:25:42	-3.3	-1.8	2.4	2.1	3.2	4.4	14.0	8.4	21.7	11.9	1.8	8.7
U6A	16:40:42	-3.5	-1.9	1.9	1.8	3.1	3.9	13.7	7.8	20.8	11.4	2.2	6.0
U6A	16:55:42	-2.8	-1.7	2.1	1.9	3.1	4.0	13.6	8.1	20.9	11.6	2.2	6.1
U6A	17:10:42	-2.6	-1.7	2.1	2.0	3.1	4.0	13.8	8.1	20.8	11.6	2.1	6.0
U6A	17:25:42	-2.8	-1.7	1.9	1.9	3.1	3.9	13.6	8.0	20.5	11.5	2.1	5.9
U6A	17:40:42	-2.8	-1.7	2.0	1.9	3.1	3.9	13.4	8.2	20.6	11.7	2.2	6.0
U6A	17:41:32	-2.8	-1.7	2.0	1.9	3.2	3.9	13.4	8.2	20.6	11.7	2.3	6.1

Table F.33 continued

VIBRATING WIRE CALCULATED STRAIN (4 MINUTE READINGS)

SBZ 6 LOAD NUMBER	TIME	VW STRN MICRO STRAIN 29	VW STRN MICRO STRAIN 30	VW STRN MICRO STRAIN 5	VW STRN MICRO STRAIN 6	VW STRN MICRO STRAIN 37	VW STRN MICRO STRAIN 38	VW STRN MICRO STRAIN 23	VW STRN MICRO STRAIN 24	VW STRN MICRO STRAIN 25	VW STRN MICRO STRAIN 26	VW STRN MICRO STRAIN 27	VW STRN MICRO STRAIN 28
L0	13:11:31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
L1	13:19:08	0.7	0.4	2.2	2.2	3.1	3.2	5.3	4.7	8.5	7.9	12.6	9.8
L2	13:27:00	0.9	2.0	3.9	1.9	5.5	5.8	10.1	9.7	17.8	16.4	21.0	19.1
L3	13:32:59	1.1	2.8	7.3	7.3	9.3	9.9	17.3	16.1	29.2	26.0	33.4	33.7
L4	13:39:06	2.5	3.3	10.8	8.9	13.8	14.5	24.8	23.7	43.4	37.6	46.9	50.3
L5	13:44:31	3.3	3.9	14.4	14.6	17.9	19.2	33.1	31.6	58.7	49.8	61.5	66.9
L6	13:50:30	5.1	4.4	18.4	18.4	22.3	23.7	41.2	39.6	74.6	63.0	76.2	84.5
L7	13:55:58	6.0	5.1	21.9	22.0	26.9	28.0	49.5	47.2	90.2	76.2	91.1	101.3
L8	14:01:34	6.4	6.1	25.2	25.4	30.1	32.1	57.5	55.2	105.8	88.8	106.8	118.0
L9	14:07:11	7.3	6.8	28.9	28.9	36.4	36.2	66.0	64.1	121.7	104.6	120.9	135.2
L10	14:12:41	7.8	7.3	32.0	32.2	38.8	40.6	74.1	73.0	137.9	116.7	137.0	152.6
L11	14:18:34	8.6	8.3	36.0	36.1	43.1	45.0	82.5	81.6	153.9	129.5	153.3	169.6
L12	14:23:52	10.0	9.1	39.7	39.8	48.4	49.8	92.5	89.7	170.0	142.9	168.7	186.6
L13	14:30:24	10.9	9.9	44.1	44.6	54.9	54.8	100.6	98.6	185.7	155.9	184.1	204.0
L14	14:35:48	12.1	10.6	48.5	49.2	58.2	60.7	111.0	108.3	201.0	169.9	199.8	221.0
L15	14:41:32	12.8	11.9	53.8	54.7	64.9	67.9	123.0	119.5	216.5	184.4	215.4	237.5
L16	14:48:04	14.8	12.8	60.3	61.4	72.6	76.5	135.9	131.6	234.0	200.0	230.5	252.7
L16A	14:51:40	15.0	12.9	61.8	62.5	76.0	78.1	137.3	132.9	235.2	201.4	230.5	252.7
L17	14:57:04	17.1	15.0	68.6	70.1	83.4	87.3	149.7	146.3	250.9	215.5	245.7	270.9
L18	15:02:52	19.4	20.9	75.7	77.7	92.7	98.2	165.4	159.9	270.5	228.6	260.3	290.7
L19	15:08:16	18.9	21.7	77.0	78.9	93.9	100.3	170.2	157.1	277.7	227.4	254.5	298.0
U1	15:11:53	17.5	20.0	74.4	76.1	90.6	95.2	159.6	146.0	258.1	208.9	232.0	272.9
U2	15:17:10	16.5	18.8	69.2	70.6	84.8	87.7	146.5	132.8	236.4	187.4	204.4	253.5
U3	15:22:28	12.5	15.1	58.8	60.0	68.9	73.0	123.2	110.0	203.2	156.2	164.6	211.5
U4	15:27:09	7.7	10.4	43.8	44.4	50.3	53.6	93.7	82.4	158.4	112.5	118.5	157.9
U5	15:32:16	1.0	3.5	21.0	21.2	24.0	26.5	52.4	41.3	90.9	56.7	56.8	81.9
U6	15:37:24	-3.1	-1.6	3.6	3.7	4.7	5.9	16.6	8.6	22.2	11.0	1.5	8.4
U6A	15:40:42	-3.2	-1.7	3.1	3.2	4.1	5.3	15.7	8.4	21.9	11.2	2.3	9.3

Table F.33 continued

AVERAGE STRAIN AT EACH GAGE LEVEL, INTEGRATED PILE COMPRESSION & COMPARISON WITH TELLTALE MEASUREMENT (4 MINUTE READINGS)

SBZ 6 LOAD NUMBER	AVG VW MICRO STRAIN SURFACE	AVG VW MICRO STRAIN 29+30	AVG VW MICRO STRAIN 5+6	AVG VW MICRO STRAIN 37+38	AVG VW MICRO STRAIN 23+24	AVG VW MICRO STRAIN 25+26	AVG VW MICRO STRAIN 27+28	EST'D. MICRO STRAIN CELL TOP	PILE COMPRESSION SG MSMT. INCHES	TT MSMT. INCHES	ABS.DIFF. SG-TT INCHES
L0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0000	0.0000	0.0000
L1	0.0	0.6	2.2	3.2	5.0	8.2	11.2	22.4	0.0031	0.0003	0.0028
L2	0.0	1.5	2.9	5.6	9.9	17.1	20.0	33.1	0.0057	0.0032	0.0025
L3	0.0	1.9	7.3	9.6	16.7	27.6	33.6	48.1	0.0097	0.0064	0.0034
L4	0.0	2.9	9.8	14.2	24.2	40.5	48.6	64.0	0.0140	0.0104	0.0037
L5	0.0	3.6	14.5	18.5	32.3	54.3	64.2	79.7	0.0188	0.0147	0.0041
L6	0.0	4.7	18.4	23.0	40.4	68.8	80.3	95.7	0.0236	0.0189	0.0047
L7	0.0	5.6	22.0	27.5	48.4	83.2	96.2	111.4	0.0283	0.0232	0.0052
L8	0.0	6.2	25.3	31.1	56.3	97.3	112.4	127.4	0.0328	0.0274	0.0054
L9	0.0	7.1	28.9	36.3	65.1	113.2	128.1	143.3	0.0378	0.0316	0.0062
L10	0.0	7.5	32.1	39.7	73.6	127.3	144.8	159.1	0.0422	0.0358	0.0064
L11	0.0	8.5	36.0	44.0	82.0	141.7	161.4	175.2	0.0471	0.0399	0.0072
L12	0.0	9.5	39.7	49.1	91.1	156.4	177.6	190.7	0.0521	0.0444	0.0077
L13	0.0	10.4	44.3	54.9	99.6	170.8	194.0	206.6	0.0572	0.0489	0.0084
L14	0.0	11.3	48.9	59.5	109.6	185.4	210.4	222.3	0.0624	0.0537	0.0088
L15	0.0	12.3	54.3	66.4	121.2	200.5	226.5	238.1	0.0683	0.0590	0.0093
L16	0.0	13.8	60.8	74.6	133.7	217.0	241.6	254.4	0.0750	0.0649	0.0102
L16A	0.0	13.9	62.2	77.0	135.1	218.3	241.6	254.6	0.0759	0.0656	0.0103
L17	0.0	16.1	69.4	85.3	148.0	233.2	258.3	270.4	0.0828	0.0717	0.0112
L18	0.0	20.2	76.7	95.4	162.6	249.6	275.5	286.1	0.0909	0.0789	0.0121
L19	0.0	20.3	78.0	97.1	163.6	252.5	276.2	291.3	0.0919	0.0802	0.0117
U1	0.0	18.7	75.3	92.9	152.8	233.5	252.5	277.2	0.0861	0.0762	0.0099
U2	0.0	17.6	69.9	86.3	139.7	211.9	229.0	220.3	0.0787	0.0694	0.0094
U3	0.0	13.8	59.4	71.0	116.6	179.7	188.0	173.1	0.0656	0.0578	0.0078
U4	0.0	9.0	44.1	51.9	88.1	135.4	138.2	122.4	0.0486	0.0427	0.0059
U5	0.0	2.2	21.1	25.3	46.8	73.8	69.4	55.5	0.0243	0.0208	0.0035
U6	0.0	-2.4	3.7	5.3	12.6	16.6	5.0	0.0	0.0042	0.0034	0.0009
U6A	0.0	-2.5	3.2	4.7	12.0	16.5	5.8	0.0	0.0040	0.0031	0.0010
ELEV. FT	6.30	-14.63	-36.13	-46.63	-57.63	-68.63	-73.63	-75.13			

Table F.33 continued

VIBRATING WIRE CALCULATED AVERAGE LOADS (4 MINUTE READINGS)

LA = 5.00 ft
LB = 1.50 ft
B = 18.00 in
ES = 27500.0 ksi

ACA = 317.115 si
ACB = 313.155 si
ASA = 3.538 si
ASB = 7.498 si

SBZ 6 LOAD NUMBER	AVG VW LOAD TONS SURFACE	AVG VW LOAD TONS 29+30	AVG VW LOAD TONS 5+6	AVG VW LOAD TONS 37+38	AVG VW LOAD TONS 23+24	AVG VW LOAD TONS 25+26	AVG VW LOAD TONS 27+28	OSTERBERG LOAD TONS BOTTOM	INCR. PILE MODULUS KSI	CALC. PILE A MODULUS KSI	CALC. PILE B MODULUS KSI
L0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0		5555.5	5825.9
L1	0.0	0.50	1.95	2.84	4.51	7.38	10.56	21.2	11681.3	5555.5	5825.9
L2	0.0	1.32	2.61	5.06	8.91	15.37	18.90	31.3	7055.7	5555.5	5825.9
L3	0.0	1.74	6.56	8.65	15.01	24.87	31.68	45.4	6421.0	5555.5	5825.9
L4	0.0	2.62	8.86	12.75	21.81	36.44	45.84	60.4	6208.9	5555.5	5825.9
L5	0.0	3.24	13.08	16.68	29.10	48.84	60.61	75.3	5839.0	5555.5	5825.9
L6	0.0	4.25	16.57	20.72	36.34	61.88	75.83	90.4	5784.2	5555.5	5825.9
L7	0.0	5.01	19.78	24.71	43.54	74.88	90.83	105.1	5736.6	5555.5	5825.9
L8	0.0	5.60	22.76	27.95	50.70	87.57	106.10	120.2	5757.2	5555.5	5825.9
L9	0.0	6.35	26.00	32.65	58.56	101.83	120.87	135.3	5934.2	5555.5	5825.9
L10	0.0	6.79	28.89	35.72	66.21	114.59	136.68	150.2	5493.3	5555.5	5825.9
L11	0.0	7.61	32.43	39.64	73.81	127.54	152.36	165.3	5625.2	5555.5	5825.9
L12	0.0	8.58	35.76	44.21	81.99	140.79	167.64	180.0	5589.3	5555.5	5825.9
L13	0.0	9.38	39.87	49.38	89.62	153.72	183.13	195.0	5639.5	5555.5	5825.9
L14	0.0	10.20	43.97	53.51	98.65	166.90	198.58	209.8	5607.5	5555.5	5825.9
L15	0.0	11.09	48.86	59.73	109.12	180.41	213.74	224.7	5701.8	5555.5	5825.9
L16	0.0	12.40	54.76	67.10	120.36	195.31	228.04	240.1	6295.4	5555.5	5825.9
L16A	0.0	12.55	55.93	69.30	121.61	196.49	228.00	240.3		5555.5	5825.9
L17	0.0	14.45	62.43	76.78	133.21	209.89	243.80	255.2	5486.0	5555.5	5825.9
L18	0.0	18.16	69.00	85.89	146.38	224.59	260.02	270.1	5337.2	5555.5	5825.9
L19	0.0	18.24	70.17	87.39	147.26	227.27	260.72	274.9	40591.0	5555.5	5825.9
U1	0.0	16.87	67.74	83.60	137.52	210.16	238.28	261.7		5555.5	5825.9
U2	0.0	15.87	62.94	77.64	125.69	190.71	216.09	207.9		5555.5	5825.9
U3	0.0	12.42	53.43	63.88	104.95	161.72	177.46	163.4		5555.5	5825.9
U4	0.0	8.13	39.73	46.75	79.28	121.90	130.43	115.5		5555.5	5825.9
U5	0.0	2.01	18.96	22.76	42.14	66.43	65.49	52.3		5555.5	5825.9
U6	0.0	-2.12	3.29	4.77	11.34	14.95	4.69	0.0		5555.5	5825.9
U6A	0.0	-2.21	2.86	4.26	10.83	14.89	5.50	0.0		5555.5	5825.9

ELEV. FT	6.30	-14.63	-36.13	-46.63	-57.63	-68.63	-73.63	-75.13	5369.3 KSI = CONCRETE MODULUS

Table F.33 continued

INTEGRATED MOVEMENT AT VW STRAIN GAGE (4 MINUTE READINGS)

SBZ 6 LOAD NUMBER	VW MOVEMENT INCHES SURFACE	VW MOVEMENT INCHES 29+30	VW MOVEMENT INCHES 5+6	VW MOVEMENT INCHES 37+38	VW MOVEMENT INCHES 23+24	VW MOVEMENT INCHES 25+26	VW MOVEMENT INCHES 27+28	VW MOVEMENT INCHES CELL TOP
L0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L1	-0.0078	-0.0077	-0.0073	-0.0070	-0.0065	-0.0056	-0.0050	-0.0047
L2	-0.0075	-0.0073	-0.0067	-0.0062	-0.0052	-0.0034	-0.0023	-0.0018
L3	-0.0084	-0.0081	-0.0069	-0.0059	-0.0041	-0.0012	0.0006	0.0014
L4	-0.0037	-0.0033	-0.0017	-0.0001	0.0024	0.0067	0.0093	0.0104
L5	-0.0041	-0.0037	-0.0014	0.0007	0.0041	0.0098	0.0134	0.0147
L6	-0.0047	-0.0041	-0.0012	0.0015	0.0056	0.0128	0.0173	0.0189
L7	-0.0052	-0.0045	-0.0009	0.0022	0.0072	0.0159	0.0213	0.0232
L8	-0.0004	0.0004	0.0045	0.0080	0.0138	0.0240	0.0302	0.0324
L9	0.0038	0.0047	0.0093	0.0134	0.0201	0.0319	0.0391	0.0416
L10	0.0086	0.0095	0.0146	0.0192	0.0266	0.0399	0.0481	0.0508
L11	0.0128	0.0139	0.0196	0.0247	0.0330	0.0478	0.0569	0.0599
L12	0.0123	0.0135	0.0199	0.0255	0.0347	0.0511	0.0611	0.0644
L13	0.0166	0.0180	0.0250	0.0313	0.0415	0.0593	0.0702	0.0739
L14	0.0212	0.0227	0.0304	0.0372	0.0484	0.0679	0.0798	0.0837
L15	0.0307	0.0322	0.0408	0.0484	0.0608	0.0820	0.0948	0.0990
L16	0.0398	0.0416	0.0512	0.0597	0.0735	0.0966	0.1104	0.1149
L16A	0.0497	0.0514	0.0612	0.0700	0.0840	0.1073	0.1211	0.1256
L17	0.0588	0.0608	0.0718	0.0816	0.0970	0.1221	0.1369	0.1416
L18	0.1179	0.1205	0.1330	0.1438	0.1608	0.1880	0.2038	0.2089
L19	0.5383	0.5408	0.5535	0.5645	0.5817	0.6092	0.6250	0.6302
U1	0.6101	0.6124	0.6245	0.6351	0.6514	0.6769	0.6914	0.6962
U2	0.6106	0.6128	0.6241	0.6340	0.6489	0.6721	0.6853	0.6894
U3	0.6122	0.6139	0.6234	0.6316	0.6440	0.6635	0.6746	0.6778
U4	0.6091	0.6102	0.6171	0.6231	0.6324	0.6471	0.6554	0.6577
U5	0.6015	0.6017	0.6047	0.6077	0.6124	0.6204	0.6247	0.6258
U6	0.5791	0.5788	0.5790	0.5795	0.5807	0.5827	0.5833	0.5834
U6A	0.5790	0.5787	0.5788	0.5793	0.5804	0.5823	0.5830	0.5831

Table F.33 continued

INTEGRATED MOVEMENT AT SEGMENT CL (4 MINUTE READINGS)

SBZ 6 LOAD NUMBER CL.ELEV.	AVG VW MOVEMENT INCHES -4.17	AVG VW MOVEMENT INCHES -25.38	AVG VW MOVEMENT INCHES -41.38	AVG VW MOVEMENT INCHES -52.13	AVG VW MOVEMENT INCHES -63.13	AVG VW MOVEMENT INCHES -71.13
L0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L4	0.0000	0.0000	0.0000	0.0011	0.0045	0.0080
L5	0.0000	0.0000	0.0000	0.0024	0.0069	0.0116
L6	0.0000	0.0000	0.0001	0.0035	0.0092	0.0151
L7	0.0000	0.0000	0.0007	0.0047	0.0116	0.0186
L8	0.0000	0.0025	0.0063	0.0109	0.0189	0.0271
L9	0.0042	0.0070	0.0114	0.0168	0.0260	0.0355
L10	0.0091	0.0121	0.0169	0.0229	0.0333	0.0440
L11	0.0134	0.0168	0.0222	0.0289	0.0404	0.0523
L12	0.0129	0.0167	0.0227	0.0301	0.0429	0.0561
L13	0.0173	0.0215	0.0281	0.0364	0.0504	0.0648
L14	0.0219	0.0265	0.0338	0.0428	0.0581	0.0738
L15	0.0314	0.0365	0.0446	0.0546	0.0714	0.0884
L16	0.0407	0.0464	0.0555	0.0666	0.0851	0.1035
L16A	0.0506	0.0563	0.0656	0.0770	0.0957	0.1142
L17	0.0598	0.0663	0.0767	0.0893	0.1096	0.1295
L18	0.1192	0.1267	0.1384	0.1523	0.1744	0.1959
L19	0.5395	0.5471	0.5590	0.5731	0.5954	0.6171
U1	0.6112	0.6185	0.6298	0.6432	0.6641	0.6841
U2	0.6117	0.6185	0.6290	0.6414	0.6605	0.6787
U3	0.6131	0.6187	0.6275	0.6378	0.6537	0.6690
U4	0.6097	0.6137	0.6201	0.6278	0.6398	0.6513
U5	0.6016	0.6032	0.6062	0.6100	0.6164	0.6225
U6	0.5790	0.5789	0.5793	0.5801	0.5817	0.5830
U6A	0.5789	0.5788	0.5791	0.5799	0.5814	0.5827

Table F.33 continued

AVERAGE SEGMENT SHEAR STRESS (4 MINUTE READINGS)

SBZ 6 LOAD NUMBER CL.ELEV.	AVG VW SHEAR TSF -4.17	AVG VW SHEAR TSF -25.38	AVG VW SHEAR TSF -41.38	AVG VW SHEAR TSF -52.13	AVG VW SHEAR TSF -63.13	AVG VW SHEAR TSF -71.13
L0	-0.016	-0.016	-0.016	-0.016	-0.016	-0.016
L1	-0.012	-0.005	-0.002	0.009	0.027	0.090
L2	-0.006	-0.006	0.023	0.042	0.081	0.102
L3	-0.003	0.021	0.017	0.080	0.133	0.210
L4	0.004	0.032	0.045	0.121	0.205	0.297
L5	0.009	0.060	0.041	0.172	0.283	0.376
L6	0.017	0.079	0.050	0.220	0.371	0.449
L7	0.023	0.098	0.062	0.269	0.458	0.515
L8	0.028	0.117	0.066	0.328	0.542	0.601
L9	0.034	0.136	0.089	0.376	0.639	0.618
L10	0.038	0.155	0.092	0.446	0.717	0.720
L11	0.044	0.176	0.098	0.501	0.798	0.811
L12	0.052	0.194	0.118	0.556	0.874	0.879
L13	0.058	0.220	0.135	0.593	0.955	0.964
L14	0.065	0.245	0.135	0.667	1.018	1.040
L15	0.072	0.276	0.156	0.732	1.064	1.095
L16	0.082	0.312	0.180	0.790	1.119	1.075
L16A	0.083	0.320	0.196	0.776	1.118	1.034
L17	0.099	0.355	0.211	0.839	1.145	1.114
L18	0.128	0.378	0.252	0.900	1.169	1.164
L19	0.129	0.386	0.257	0.891	1.196	1.099
U1	0.118	0.378	0.235	0.801	1.084	0.921
U2	0.110	0.348	0.217	0.712	0.969	0.830
U3	0.082	0.301	0.150	0.606	0.844	0.508
U4	0.048	0.228	0.095	0.476	0.629	0.268
U5	-0.000	0.115	0.044	0.277	0.352	-0.048
U6	-0.033	0.026	0.007	0.083	0.038	-0.359
U6A	-0.034	0.023	0.006	0.083	0.045	-0.330

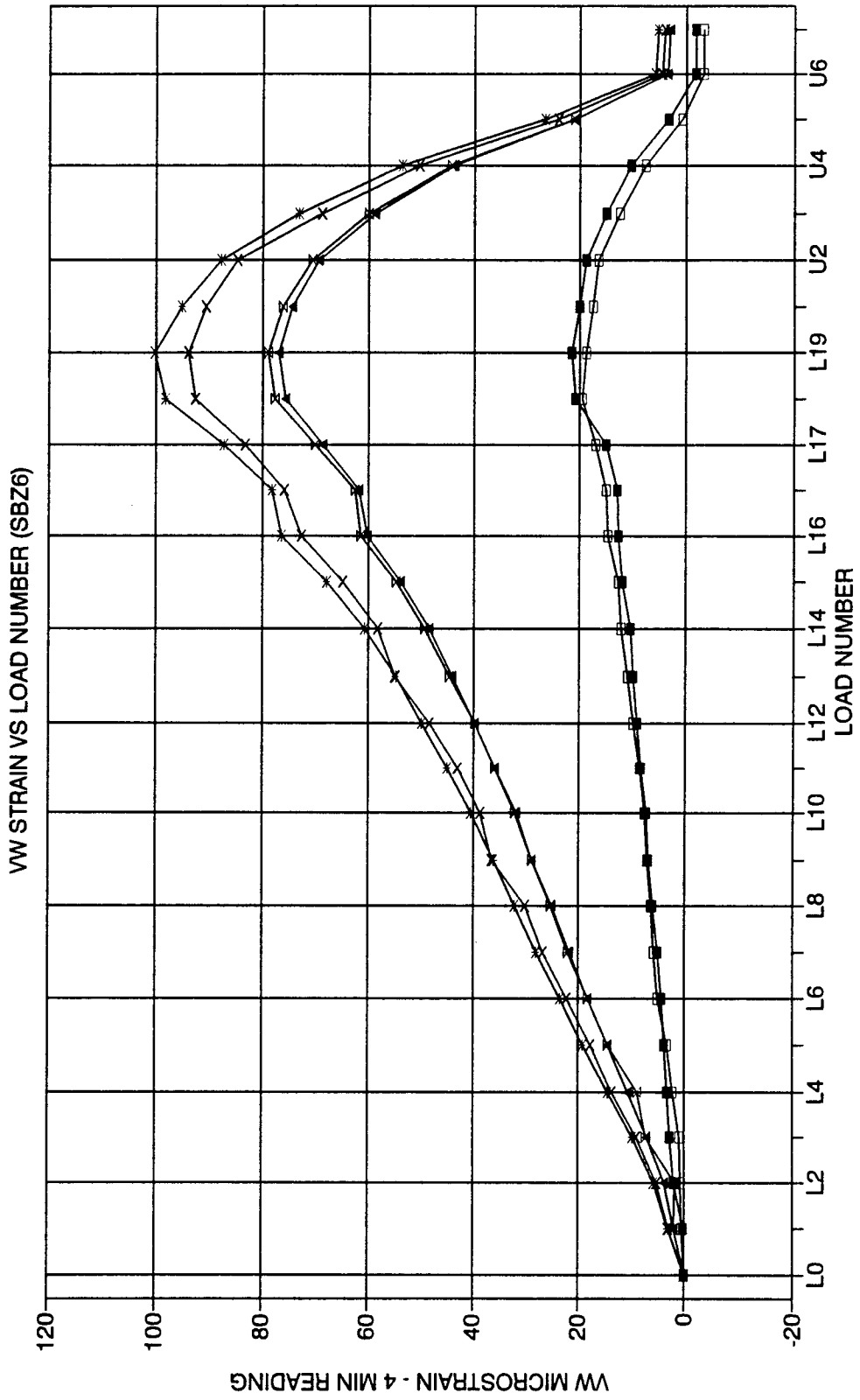

Figure F.173 Strain at Pile Top: Seabreeze Load Test 6

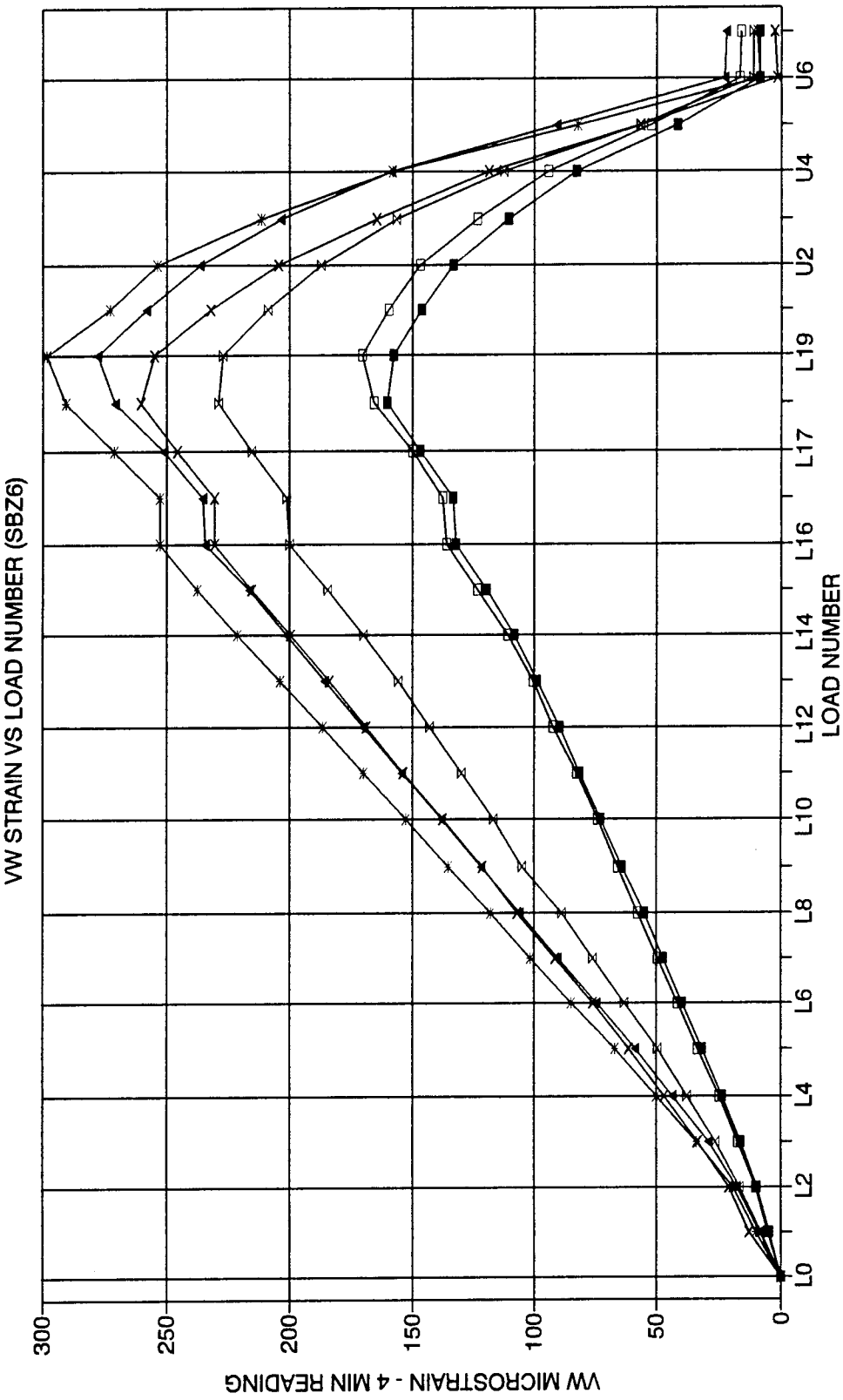

Figure F.174 Strain at Pile Bottom: Seabreeze Load Test 6

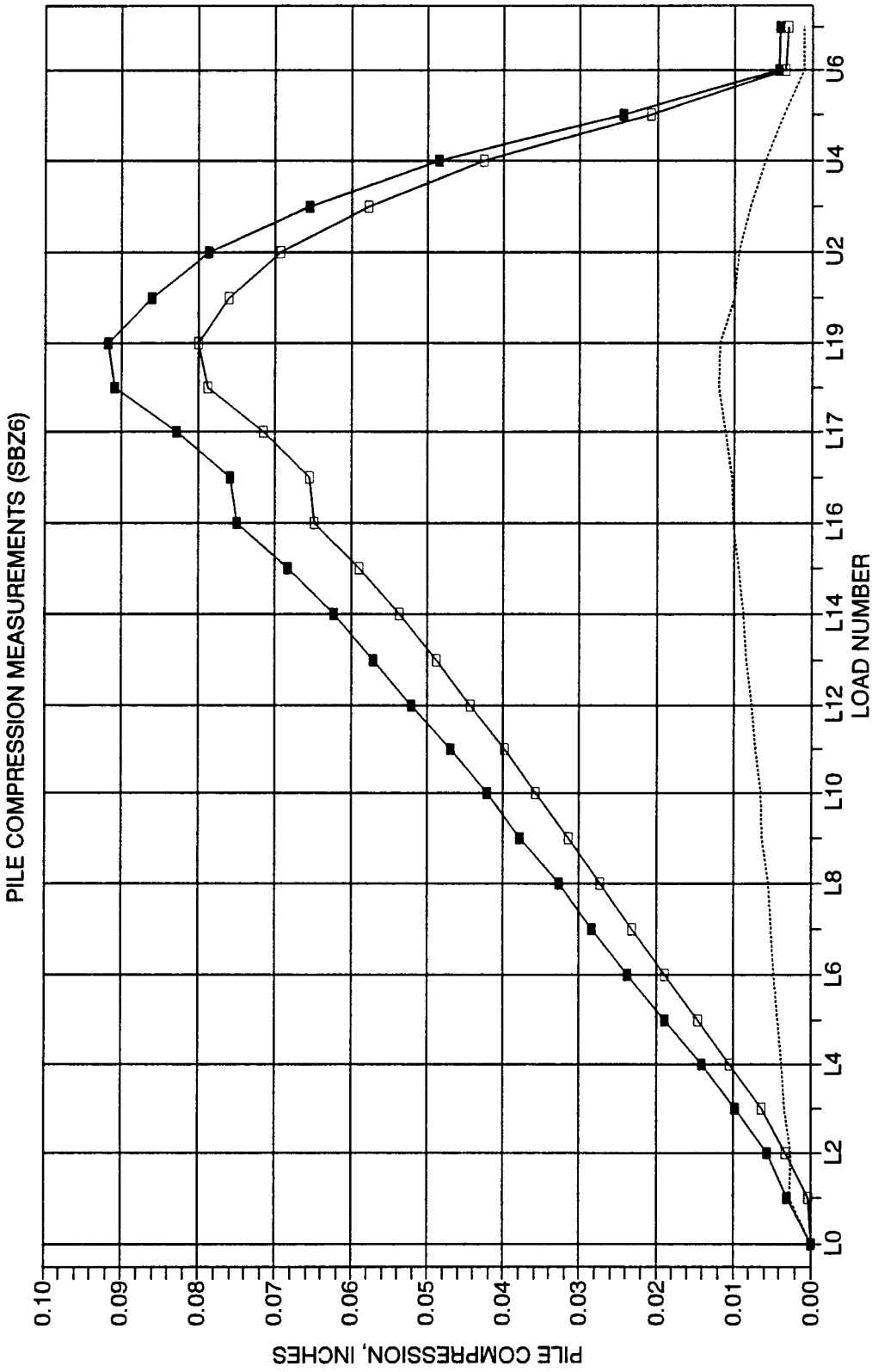

Figure F.175 Pile Compression Measurements: Seabreeze Load Test 6

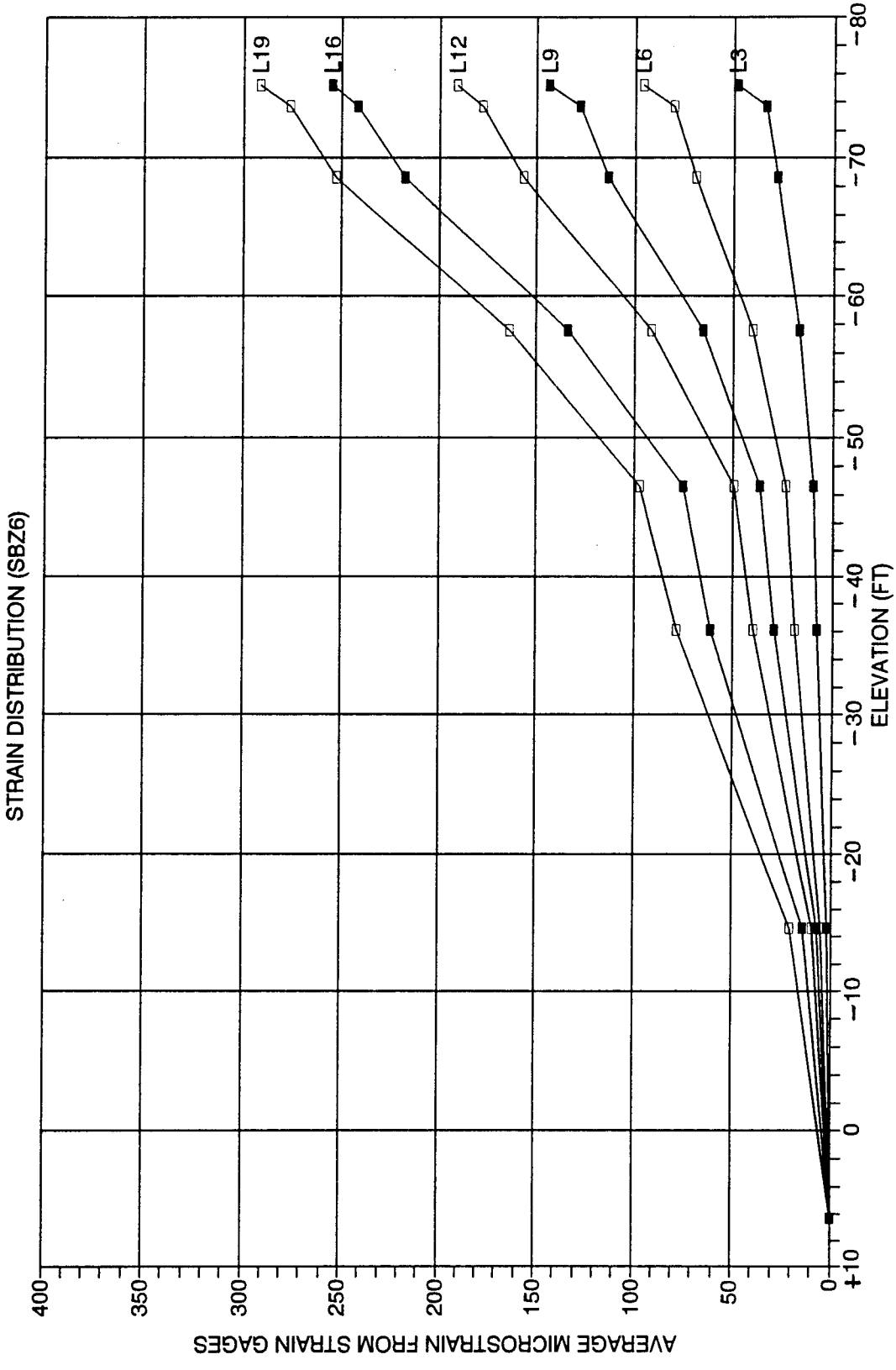

Figure F.176 Pile Strain Distribution: Seabreeze Load Test 6

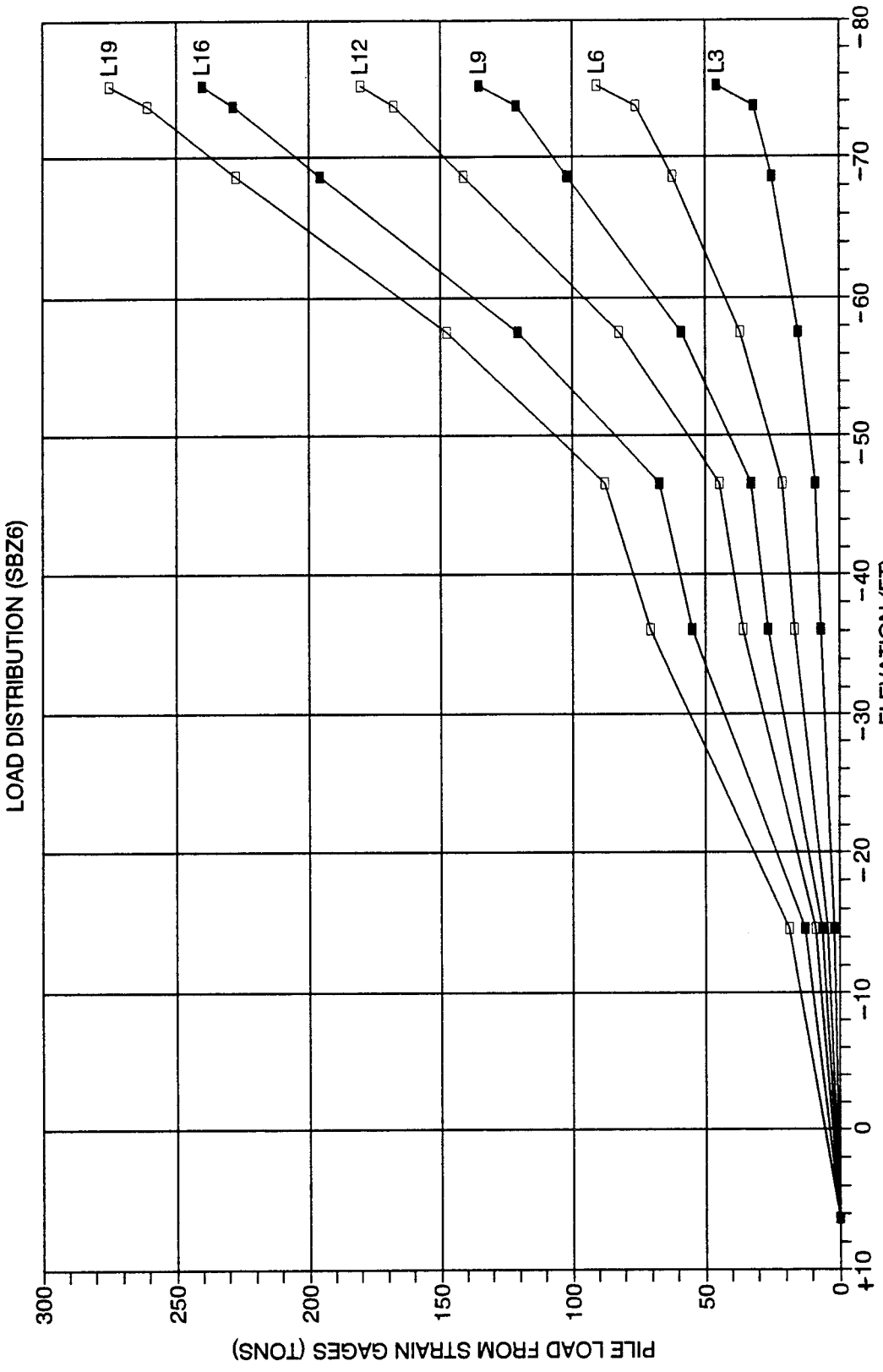

Figure F.177 Pile Load Distribution: Seabreeze Load Test 6

APPENDIX G
TEST PILE PORE PRESSURE MEASUREMENTS

Table G.1 Pore Pressure Measurements (BKM)

DRIVEN 13:45 03/26/94

DATE, MM/DD/YY			03/26/94	03/26/94	03/26/94	03/26/94	03/26/94	03/26/94	03/26/94
TIME, HH:MM		UF LAB	13:50	14:25	14:55	15:40	16:16	17:46	21:30
ELAPSED TIME, DAYS		INIT.	0.00	0.03	0.05	0.08	0.10	0.17	0.32
BEFORE/AFTER TEST		RDGS.	BT	BT	BT	BT	BT	BT	AT
ELEV. M,MSL	PZT NO.	PRESSURE FACTOR	PIEZOMETER READING, HZ^2/1000 (GK-401 POSITION "B")						
+1.58M	25445	0.037225	8488	8495	8495	8496	8504	8504	8504	NA
-0.25M	25434	0.032872	9307	9182	9212	9223	9240	9245	9252	NA
-1.93M	25431	0.037056	9428	9203	9256	9275	9303	9313	9326	NA
-3.53M	25447	0.036025	9023	8782	8855	8864	8875	8877	8878	NA
ELEV. M,MSL	PZT NO.	THERMAL FACTOR	THERMISTOR READING, OHMS							
+1.58M	25445	-0.003722		3340	3370	3400	CR10	CR10	CR10	NA
-0.25M	25434	-0.016436		3810	3800	3780	CR10	CR10	CR10	NA
-1.93M	25431	-0.029645		3730	3710	3680	CR10	CR10	CR10	NA
-3.53M	25447	-0.025217		3660	3620	3580	CR10	CR10	CR10	NA
ELEV. M,MSL	PZT NO.		TEMPERATURE, DEGREES C							
+1.58M	25445		25.00	22.58	22.38	22.18	22.01	21.92	21.64	NA
-0.25M	25434		25.00	19.64	19.70	19.82	19.96	20.06	20.21	NA
-1.93M	25431		25.00	20.11	20.23	20.41	20.62	20.78	21.00	NA
-3.53M	25447		25.00	20.53	20.78	21.02	21.23	21.40	21.67	NA
ELEV. M,MSL	PZT NO.		PORE PRESSURE, KPA							
+1.58M	25445		0.0	-1.7	-1.7	-2.0	-4.0	-4.0	-4.1	NA
-0.25M	25434		0.0	28.9	22.1	19.6	15.7	14.6	13.0	NA
-1.93M	25431		0.0	58.5	44.9	40.0	32.8	30.2	26.8	NA
-3.53M	25447		0.0	60.6	42.4	40.2	37.4	37.0	36.7	NA
ELEV. M,MSL	PZT NO.		PORE PRESSURE, KPA EXCLUDING AFTER TEST MEASUREMENTS							
+1.58M	25445			SEE NOTE BELOW						
-0.25M	25434			28.9	22.1	19.6	15.7	14.6	13.0	
-1.93M	25431			58.5	44.9	40.0	32.8	30.2	26.8	
-3.53M	25447			60.6	42.4	40.2	37.4	37.0	36.7	

PZT 25445 AND DMT 12 WERE LOCATED ABOVE THE WATER TABLE ARE UNRELIABLE. THE SMALL NEGATIVE PORE PRESSURES PROBABLY INDICATE PZT DESATURATION. NEGATIVE DMT READINGS INDICATE THAT THE MEMBRANE STIFFNESS (DA) EXCEEDED THE TOTAL SOIL STRESS.

Table G.1 continued

DRIVEN 13:45 03/26/94

DATE, MM/DD/YY			03/28/94	03/29/94	03/29/94	04/11/94	04/11/94	05/31/94	05/31/94	12/19/94
TIME, HH:MM			13:15	16:30	18:39	08:15	14:17	09:40	16:20	10:00
ELAPSED TIME, DAYS			1.98	3.11	3.20	15.77	16.02	65.83	66.11	267.84
BEFORE/AFTER TEST			BT	BT	AT	BT	AT	BT	AT	BT
ELEV. M,MSL	PZT NO.	PRESSURE FACTOR	PIEZOMETER READING, HZ^2/1000 (GK-401 POSITION "B")							
+1.58M	25445	0.037225	8484	8492	NA	8497	8497	8493	NA	8493
-0.25M	25434	0.032872	9259	9249	NA	9263	9258	9255	NA	9242
-1.93M	25431	0.037056	9338	9336	NA	9336	9329	9335	NA	9329
-3.53M	25447	0.036025	8867	8882	NA	8872	8869	8871	NA	8855
ELEV. M,MSL	PZT NO.	THERMAL FACTOR	THERMISTOR READING, OHMS							
+1.58M	25445	-0.003722	3680	CR10	NA	3630	3630	3370	NA	3370
-0.25M	25434	-0.016436	3620	CR10	NA	3590	3590	3480	NA	3270
-1.93M	25431	-0.029645	3470	CR10	NA	3480	3480	3470	NA	3260
-3.53M	25447	-0.025217	3370	CR10	NA	3380	3380	3430	NA	3280
ELEV. M,MSL	PZT NO.		TEMPERATURE, DEGREES C							
+1.58M	25445		20.41	20.41	NA	20.72	20.72	22.38	NA	22.38
-0.25M	25434		20.78	20.90	NA	20.96	20.96	21.66	NA	23.05
-1.93M	25431		21.72	21.76	NA	21.66	21.66	21.72	NA	23.12
-3.53M	25447		22.38	22.44	NA	22.31	22.31	21.98	NA	22.98
ELEV. M,MSL	PZT NO.		PORE PRESSURE, KPA							
+1.58M	25445		1.1	-0.8	NA	-2.2	-2.2	-1.2	NA	-1.2
-0.25M	25434		11.4	13.7	NA	10.4	11.6	12.2	NA	14.9
-1.93M	25431		23.7	24.2	NA	24.2	26.0	24.4	NA	25.7
-3.53M	25447		39.2	35.4	NA	38.0	38.7	38.3	NA	42.1
ELEV. M,MSL	PZT NO.		PORE PRESSURE, KPA EXCLUDING AFTER TEST MEASUREMENTS							
+1.58M	25445									
-0.25M	25434		11.4	13.7		10.4		12.2		14.9
-1.93M	25431		23.7	24.2		24.2		24.4		25.7
-3.53M	25447		39.2	35.4		38.0		38.3		42.1

PZT 25445 AND DMT 12 WERE LOCATED ABOVE THE WATER TABLE ARE UNRELIABLE. THE SMALL NEGATIVE PORE PRESSURES PROBABLY INDICATE PZT DESATURATION. NEGATIVE DMT READINGS INDICATE THAT THE MEMBRANE STIFFNESS (DA) EXCEEDED THE TOTAL SOIL STRESS.

Table G.1 continued

DRIVEN 13:45 03/26/94

DATE, MM/DD/YY			12/19/94	12/19/94
TIME, HH:MM			15:13	15:57
ELAPSED TIME, DAYS			268.06	268.09
BEFORE/AFTER TEST			AT	AT

ELEV. M,MSL	PZT NO.	PRESSURE FACTOR	PIEZOMETER READING, HZ^2/1000 (GK-401 POSITION "B")	
+1.58M	25445	0.037225	NA	8493
-0.25M	25434	0.032872	NA	9240
-1.93M	25431	0.037056	NA	9325
-3.53M	25447	0.036025	NA	8856

ELEV. M,MSL	PZT NO.	THERMAL FACTOR	THERMISTOR READING, OHMS	
+1.58M	25445	-0.003722	NA	3370
-0.25M	25434	-0.016436	NA	3270
-1.93M	25431	-0.029645	NA	3260
-3.53M	25447	-0.025217	NA	3280

ELEV. M,MSL	PZT NO.	TEMPERATURE, DEGREES C	
+1.58M	25445	NA	22.38
-0.25M	25434	NA	23.05
-1.93M	25431	NA	23.12
-3.53M	25447	NA	22.98

ELEV. M,MSL	PZT NO.	PORE PRESSURE, KPA	
+1.58M	25445	NA	-1.2
-0.25M	25434	NA	15.4
-1.93M	25431	NA	26.7
-3.53M	25447	NA	41.8

ELEV. M,MSL	PZT NO.	PORE PRESSURE, KPA EXCLUDING AFTER TEST MEASUREMENTS
+1.58M	25445	
-0.25M	25434	
-1.93M	25431	
-3.53M	25447	

PZT 25445 AND DMT 12 WERE LOCATED ABOVE THE WATER TABLE ARE UNRELIABLE. THE SMALL NEGATIVE PORE PRESSURES PROBABLY INDICATE PZT DESATURATION. NEGATIVE DMT READINGS INDICATE THAT THE MEMBRANE STIFFNESS (DA) EXCEEDED THE TOTAL SOIL STRESS.

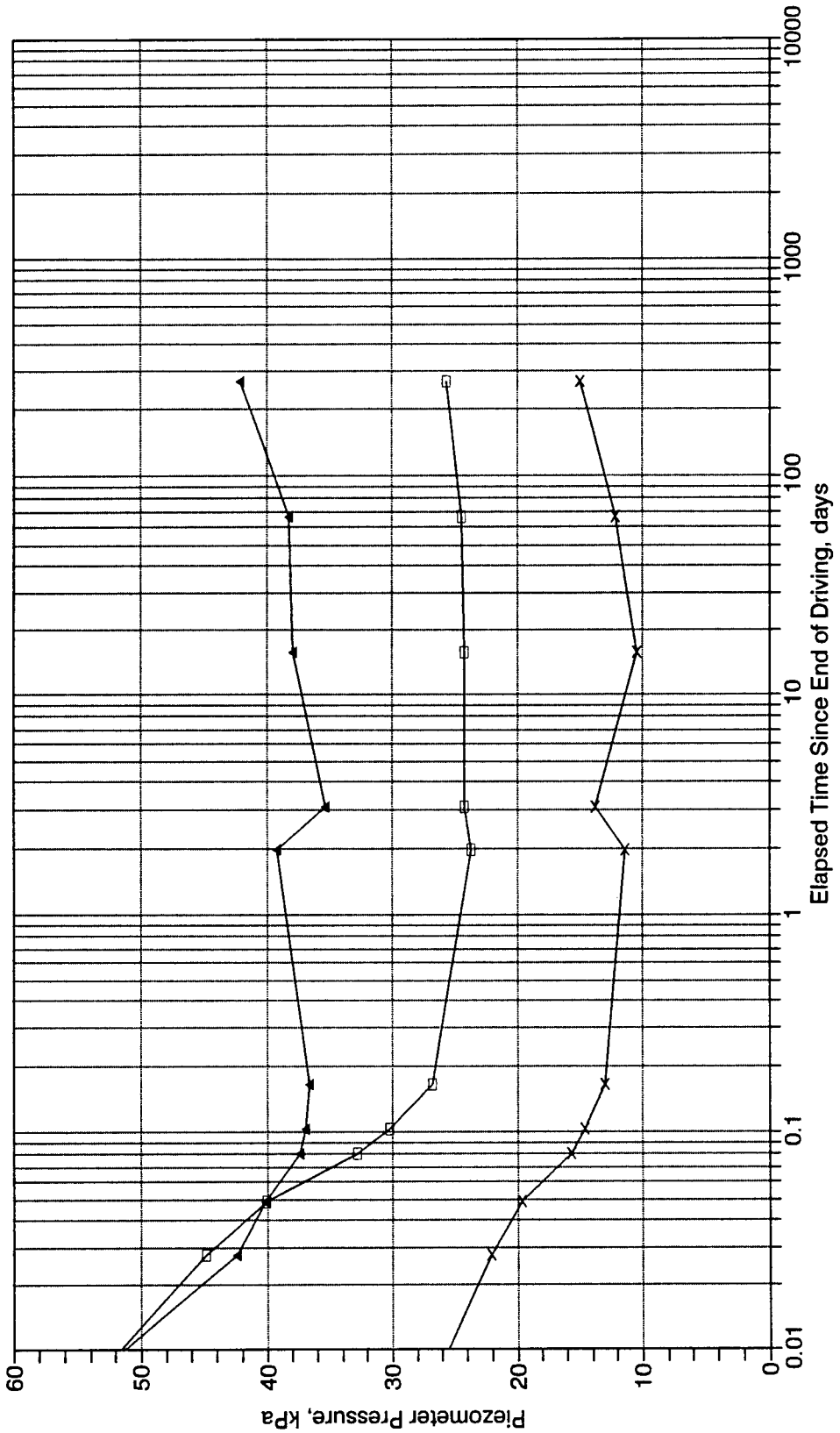

Figure G.1 Pore Pressure (BKM)

Table G.2 Pore Pressure Measurements (AUC)

DRIVEN 11:43 03/30/94

DATE, MM/DD/YY				03/30/94	03/30/94	03/30/94	03/30/94	03/30/94	03/31/94	03/31/94
TIME, HH:MM			UF LAB	12:05	13:38	14:50	15:47	17:02	08:30	10:52
ELAPSED TIME, DAYS			INIT.	0.02	0.08	0.13	0.17	0.22	0.87	0.96
BEFORE/AFTER TEST			RDGS.	BT	BT	BT	BT	BT	BT	BT
ELEV. M,MSL	PZT NO.	PRESSURE FACTOR	PIEZOMETER READING, HZ^2/1000 (GK-401 POSITION "B")							
+11.96M	25444	0.041550	8979	8420	8432	8453	NA	8494	8625	8645
+ 7.70M	25443	0.042786	9884	9194	9291	9335	NA	9395	9533	9551
+ 5.11M	25440	0.037831	9643	8556	8495	8521	NA	8599	8958	8996
+ 2.21M	25430	0.038440	9598	8462	8522	8557	NA	8622	8881	8910
- 1.30M	25433	0.040511	9699	8277	8425	8518	NA	8652	8995	9022
ELEV. M,MSL	PZT NO.	THERMAL FACTOR	THERMISTOR READING, OHMS							
+11.96M	25444	-0.012470		4560	4430	4370	NA	CR10	4140	CR10
+ 7.70M	25443	-0.047065		4400	4240	4150	NA	CR10	3780	CR10
+ 5.11M	25440	-0.037831		4390	4220	4130	NA	CR10	3790	CR10
+ 2.21M	25430	-0.030752		4340	4160	4080	NA	CR10	3770	CR10
- 1.30M	25433	-0.032409		4230	4000	4030	NA	CR10	3770	CR10
ELEV. M,MSL	PZT NO.		TEMPERATURE, DEGREES C							
+11.96M	25444		25.00	15.72	16.35	16.64	NA	17.00	17.82	17.91
+ 7.70M	25443		25.00	16.49	17.30	17.77	NA	18.32	19.82	19.96
+ 5.11M	25440		25.00	16.54	17.40	17.87	NA	18.38	19.76	19.84
+ 2.21M	25430		25.00	16.79	17.71	18.14	NA	18.67	19.88	19.99
- 1.30M	25433		25.00	17.35	18.57	18.41	NA	18.85	19.88	19.93
ELEV. M,MSL	PZT NO.		PORE PRESSURE, KPA							
+11.96M	25444		0.0	160.9	157.4	151.3	NA	139.6	102.0	96.4
+ 7.70M	25443		0.0	206.2	177.4	164.2	NA	146.5	105.2	99.9
+ 5.11M	25440		0.0	285.6	301.3	294.4	NA	273.9	180.0	170.1
+ 2.21M	25430		0.0	302.7	286.6	277.2	NA	259.9	191.0	183.4
- 1.30M	25433		0.0	398.7	357.1	331.2	NA	293.7	197.7	190.0
ELEV. M,MSL	PZT NO.		PORE PRESSURE, KPA EXCLUDING AFTER TEST MEASUREMENTS							
+11.96M	25444			160.9	157.4	151.3		139.6	102.0	96.4
+ 7.70M	25443			206.2	177.4	164.2		146.5	105.2	99.9
+ 5.11M	25440			285.6	301.3	294.4		273.9	180.0	170.1
+ 2.21M	25430			302.7	286.6	277.2		259.9	191.0	183.4
- 1.30M	25433			398.7	357.1	331.2		293.7	197.7	190.0

Table G.2 continued

DRIVEN 11:43 03/30/94

DATE, MM/DD/YY			03/31/94	04/02/94	04/02/94	04/02/94	04/02/94	04/15/94	04/15/94	04/15/94
TIME, HH:MM			14:22	08:30	10:45	14:00	15:00	11:32	16:05	16:45
ELAPSED TIME, DAYS			1.11	2.87	2.96	3.10	3.14	15.99	16.18	16.21
BEFORE/AFTER TEST			AT	BT	BT	AT	AT	BT	AT	AT
ELEV. M,MSL	PZT NO.	PRESSURE FACTOR	PIEZOMETER READING, HZ^2/1000 (GK-401 POSITION "B")							
+11.96M	25444	0.041550	8620	8798	8808	8676	8687	8860	NA	NA
+ 7.70M	25443	0.042786	9541	9611	9620	9600	9606	9637	NA	NA
+ 5.11M	25440	0.037831	8805	9202	9213	9046	9015	9267	NA	NA
+ 2.21M	25430	0.038440	8807	9072	9082	8969	9008	9132	NA	NA
- 1.30M	25433	0.040511	8833	9098	9107	8977	9009	9164	NA	NA
ELEV. M,MSL	PZT NO.	THERMAL FACTOR	THERMISTOR READING, OHMS							
+11.96M	25444	-0.012470	4120	4060	CR10	4050	4050	4000	NA	NA
+ 7.70M	25443	-0.047065	3740	3650	CR10	3650	3650	3600	NA	NA
+ 5.11M	25440	-0.037831	3760	3680	CR10	3670	3670	3620	NA	NA
+ 2.21M	25430	-0.030752	3740	3680	CR10	3670	3680	3640	NA	NA
- 1.30M	25433	-0.032409	3750	3700	CR10	3690	3690	3660	NA	NA
ELEV. M,MSL	PZT NO.		TEMPERATURE, DEGREES C							
+11.96M	25444		17.92	18.25	18.28	18.30	18.30	18.57	NA	NA
+ 7.70M	25443		20.05	20.59	20.62	20.59	20.59	20.90	NA	NA
+ 5.11M	25440		19.94	20.41	20.47	20.47	20.47	20.78	NA	NA
+ 2.21M	25430		20.05	20.41	20.44	20.47	20.41	20.65	NA	NA
- 1.30M	25433		19.99	20.29	20.34	20.35	20.35	20.53	NA	NA
ELEV. M,MSL	PZT NO.		PORE PRESSURE, KPA							
+11.96M	25444		103.4	52.4	49.5	87.3	84.2	34.6	NA	NA
+ 7.70M	25443		102.7	81.9	79.3	85.2	83.4	74.2	NA	NA
+ 5.11M	25440		219.8	116.2	113.3	156.8	164.9	99.1	NA	NA
+ 2.21M	25430		210.6	140.3	137.7	167.6	157.3	124.4	NA	NA
- 1.30M	25433		242.9	168.8	166.3	202.6	193.7	150.4	NA	NA
ELEV. M,MSL	PZT NO.		PORE PRESSURE, KPA EXCLUDING AFTER TEST MEASUREMENTS							
+11.96M	25444			52.4	49.5			34.6		
+ 7.70M	25443			81.9	79.3			74.2		
+ 5.11M	25440			116.2	113.3			99.1		
+ 2.21M	25430			140.3	137.7			124.4		
- 1.30M	25433			168.8	166.3			150.4		

Table G.2 continued

DRIVEN 11:43 03/30/94

DATE, MM/DD/YY			04/15/94	05/10/94	06/03/94	06/03/94	06/03/94	12/20/94	12/20/94	12/20/98
TIME, HH:MM			17:03	11:25	09:45	16:45	17:36	09:35	16:14	20:26
ELAPSED TIME, DAYS			16.22	40.99	64.92	65.21	65.25	264.91	265.19	1726.36
BEFORE/AFTER TEST			AT	BT	BT	AT	AT	BT	AT	BT
ELEV. M,MSL	PZT NO.	PRESSURE FACTOR	PIEZOMETER READING, HZ^2/1000 (GK-401 POSITION "B")							
+11.96M	25444	0.041550	8800	8869	8881	NA	NA	8855	8866	8880
+ 7.70M	25443	0.042786	9634	9648	9666	NA	NA	9636	9638	9666
+ 5.11M	25440	0.037831	9212	9198	9097	NA	NA	9227	9212	9303
+ 2.21M	25430	0.038440	9123	9143	9159	NA	NA	9128	9104	9158
- 1.30M	25433	0.040511	9188	9166	9177	NA	NA	9142	9638	9168
ELEV. M,MSL	PZT NO.	THERMAL FACTOR	THERMISTOR READING, OHMS							
+11.96M	25444	-0.012470	4000	3920	3810	NA	NA	3570	3570	3580
+ 7.70M	25443	-0.047065	3600	3620	3650	NA	NA	3630	3630	3860
+ 5.11M	25440	-0.037831	3620	3620	3630	NA	NA	3670	3670	3760
+ 2.21M	25430	-0.030752	3640	3640	3640	NA	NA	3670	3660	3740
- 1.30M	25433	-0.032409	3660	3670	3670	NA	NA	3680	3680	3740
ELEV. M,MSL	PZT NO.		TEMPERATURE, DEGREES C							
+11.96M	25444		18.57	19.02	19.64	NA	NA	21.09	21.09	21.02
+ 7.70M	25443		20.90	20.78	20.59	NA	NA	20.72	20.72	19.36
+ 5.11M	25440		20.78	20.78	20.72	NA	NA	20.47	20.47	19.94
+ 2.21M	25430		20.65	20.65	20.65	NA	NA	20.47	20.53	20.05
- 1.30M	25433		20.53	20.47	20.47	NA	NA	20.41	20.41	20.05
ELEV. M,MSL	PZT NO.		PORE PRESSURE, KPA							
+11.96M	25444		51.8	32.0	28.5	NA	NA	35.8	32.7	28.7
+ 7.70M	25443		75.0	71.0	65.7	NA	NA	74.5	73.9	66.1
+ 5.11M	25440		113.5	117.1	143.5	NA	NA	109.6	113.6	90.0
+ 2.21M	25430		126.8	121.5	117.2	NA	NA	125.5	131.8	117.6
- 1.30M	25433		143.7	149.8	146.8	NA	NA	156.5	18.1	149.4
ELEV. M,MSL	PZT NO.		PORE PRESSURE, KPA EXCLUDING AFTER TEST MEASUREMENTS							
+11.96M	25444			32.0	28.5			35.8		28.7
+ 7.70M	25443			71.0	65.7			74.5		66.1
+ 5.11M	25440			117.1	143.5			109.6		90.0
+ 2.21M	25430			121.5	117.2			125.5		117.6
- 1.30M	25433			149.8	146.8			156.5		149.4

Table G.2 continued

DRIVEN 11:43 03/30/94

DATE, MM/DD/YY		12/21/98	
TIME, HH:MM		12:10	
ELAPSED TIME, DAYS		1727.02	
BEFORE/AFTER TEST		BT	

ELEV. M,MSL	PZT NO.	PRESSURE FACTOR	PIEZOMETER READING, HZ^2/1000 (GK-401 POSITION "B")
+11.96M	25444	0.041550	8888
+ 7.70M	25443	0.042786	9675
+ 5.11M	25440	0.037831	9311
+ 2.21M	25430	0.038440	9168
- 1.30M	25433	0.040511	9177

ELEV. M,MSL	PZT NO.	THERMAL FACTOR	THERMISTOR READING, OHMS
+11.96M	25444	-0.012470	CR10
+ 7.70M	25443	-0.047065	CR10
+ 5.11M	25440	-0.037831	CR10
+ 2.21M	25430	-0.030752	CR10
- 1.30M	25433	-0.032409	CR10

ELEV. M,MSL	PZT NO.	TEMPERATURE, DEGREES C
+11.96M	25444	20.70
+ 7.70M	25443	19.05
+ 5.11M	25440	19.59
+ 2.21M	25430	19.74
- 1.30M	25433	19.77

ELEV. M,MSL	PZT NO.	PORE PRESSURE, KPA
+11.96M	25444	26.3
+ 7.70M	25443	63.5
+ 5.11M	25440	87.9
+ 2.21M	25430	115.1
- 1.30M	25433	146.9

ELEV. M,MSL	PZT NO.	PORE PRESSURE, KPA EXCLUDING AFTER TEST MEASUREMENTS
+11.96M	25444	26.3
+ 7.70M	25443	63.5
+ 5.11M	25440	87.9
+ 2.21M	25430	115.1
- 1.30M	25433	146.9

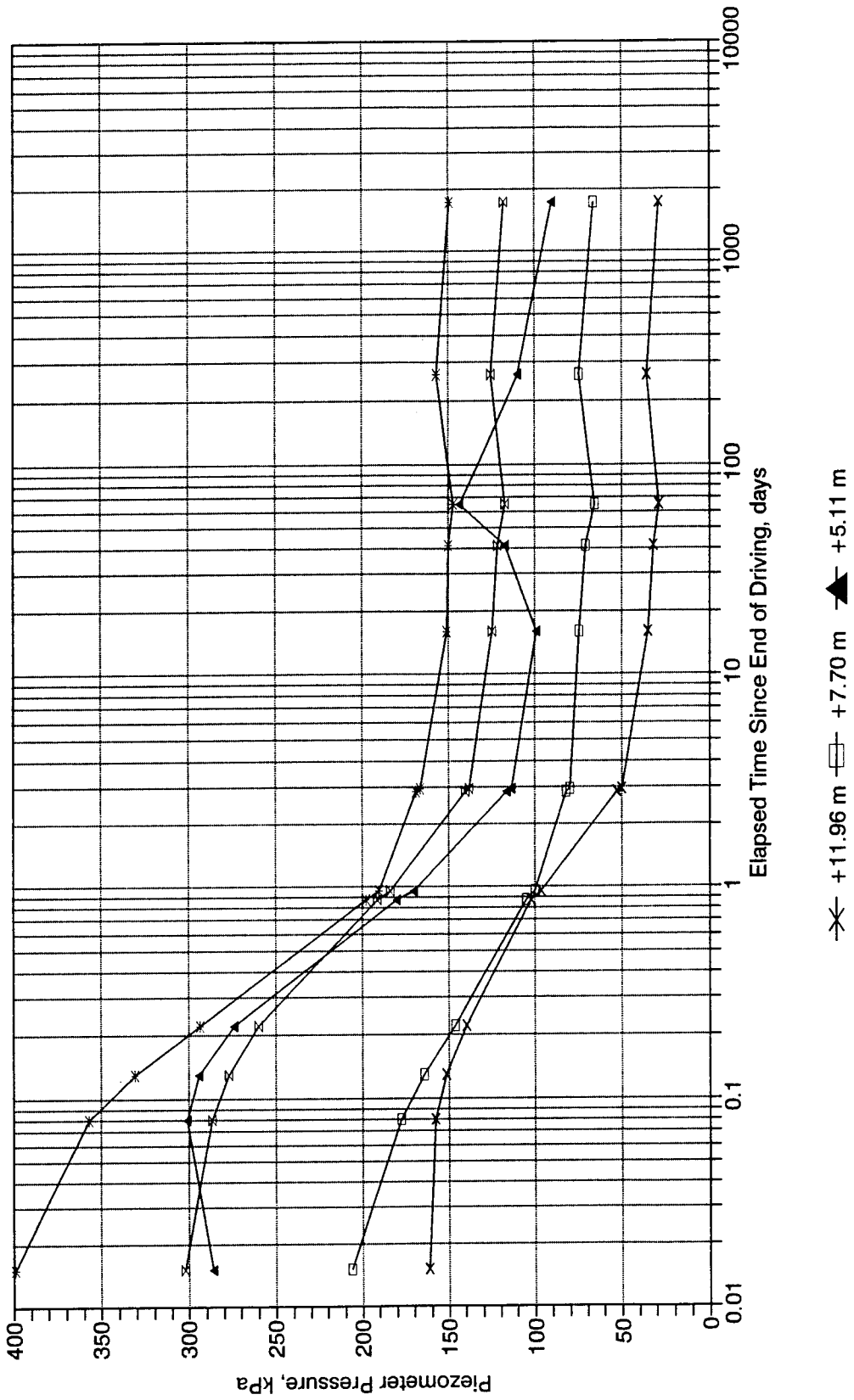

Figure G.2 Pore Pressure (AUC)

Table G.3 Pore Pressure Measurements (VLE)

DRIVEN 13:04 04/14/94

DATE, MM/DD/YY			04/14/94	04/14/94	04/14/94	04/14/94	04/14/94	04/15/94	04/15/94
TIME, HH:MM		UF LAB	13:18	13:50	14:37	18:45	20:05	00:30	07:38
ELAPSED TIME, DAYS		INIT.	0.01	0.03	0.06	0.24	0.29	0.48	0.77
BEFORE/AFTER TEST		RDGS.	BT	BT	BT	BT	BT	AT	AT
ELEV. M,MSL	PZT NO.	PRESSURE FACTOR	PIEZOMETER READING, (HZ^2)/1000 (GK-401 POSITION "B")						
-3.04M	25436	0.035786	9229	9083	9083	9081	9088.9	9088.9	NA	9081
-4.94M	25437	0.040338	9345	9146	9145	9144	9150.9	9150.8	NA	9143
-7.53M	25448	0.035364	9462	9136	9134	9133	9140.7	9140.5	NA	9132
ELEV. M,MSL	PZT NO.	THERMAL FACTOR	THERMISTOR READING, OHMS							
-3.04M	25436	-0.028629	3165	3370	3420	2641	CR10	CR10	NA	3550
-4.94M	25437	-0.036304	2904	3280	3310	2573	CR10	CR10	NA	3052
-7.53M	25448	-0.010609	2990	3093	3130	2436	CR10	CR10	NA	2931
ELEV. M,MSL	PZT NO.		TEMPERATURE, DEGREES C							
-3.04M	25436		23.79	22.38	22.05	27.94	21.85	21.75	NA	21.21
-4.94M	25437		25.75	22.98	22.78	28.54	22.95	22.91	NA	24.62
-7.53M	25448		25.08	24.31	24.04	29.82	24.26	24.16	NA	25.54
ELEV. M,MSL	PZT NO.		PORE PRESSURE, KPA							
-3.04M	25436		0.0	36.3	36.4	35.7	34.9	35.0	NA	37.0
-4.94M	25437		0.0	56.0	56.3	55.2	54.7	54.7	NA	56.4
-7.53M	25448		0.0	79.5	80.0	79.8	78.4	78.4	NA	80.4
ELEV. M,MSL	PZT NO.		PORE PRESSURE, KPA EXCLUDING AFTER TEST MEASUREMENTS							
-3.04M	25436			36.3	36.4	35.7	34.9	35.0		
-4.94M	25437			56.0	56.3	55.2	54.7	54.7		
-7.53M	25448			79.5	80.0	79.8	78.4	78.4		

Table G.3 continued

DRIVEN 13:04 04/14/94

DATE, MM/DD/YY			04/16/94	04/18/94	04/18/94	04/30/94	04/30/94	05/12/94	06/30/94	06/30/94
TIME, HH:MM			15:43	08:16	14:37	08:35	13:35	13:45	11:30	14:51
ELAPSED TIME, DAYS			2.11	3.80	4.06	15.81	16.02	28.03	76.93	77.07
BEFORE/AFTER TEST			BT	BT	AT	BT	AT	BT	BT	AT
ELEV. M,MSL	PZT NO.	PRESSURE FACTOR	PIEZOMETER READING, (HZ^2)/1000 (GK-401 POSITION "B")							
-3.04M	25436	0.035786	9085	9084.5	9085	9087	9086	9087	9085	NA
-4.94M	25437	0.040338	9146	9145.0	9146	9149	9148	9151	9139	NA
-7.53M	25448	0.035364	9134	9133.5	9134	9132	9132	9107	9025	NA
ELEV. M,MSL	PZT NO.	THERMAL FACTOR	THERMISTOR READING, OHMS							
-3.04M	25436	-0.028629	3610	3640	3650	3660	3660	4060	3410	NA
-4.94M	25437	-0.036304	3350	3370	3370	3400	3400	3650	3400	NA
-7.53M	25448	-0.010609	3240	3260	3260	3290	3290	3680	3330	NA
ELEV. M,MSL	PZT NO.		TEMPERATURE, DEGREES C							
-3.04M	25436		20.84	20.65	20.59	20.53	20.53	18.25	22.11	NA
-4.94M	25437		22.51	22.38	22.38	22.18	22.18	20.59	22.18	NA
-7.53M	25448		23.26	23.12	23.12	22.92	22.92	20.41	22.64	NA
ELEV. M,MSL	PZT NO.		PORE PRESSURE, KPA							
-3.04M	25436		36.1	36.3	36.1	35.7	35.9	36.1	35.8	NA
-4.94M	25437		56.1	56.4	56.2	55.4	55.7	55.2	58.2	NA
-7.53M	25448		80.1	80.2	80.1	80.6	80.6	86.9	106.7	NA
ELEV. M,MSL	PZT NO.		PORE PRESSURE, KPA EXCLUDING AFTER TEST MEASUREMENTS							
-3.04M	25436		36.1	36.3		35.7		36.1	35.8	
-4.94M	25437		56.1	56.4		55.4		55.2	58.2	
-7.53M	25448		80.1	80.2		80.6		86.9	106.7	

Table G.3 continued

DRIVEN 13:04 04/14/94

DATE, MM/DD/YY		12/15/94	
TIME, HH:MM		18:00	
ELAPSED TIME, DAYS		245.21	
BEFORE/AFTER TEST		BT	

ELEV. M,MSL	PZT NO.	PRESSURE FACTOR	PIEZOMETER READING, (HZ^2)/1000 (GK-401 POSITION "B")
-3.04M	25436	0.035786	9076
-4.94M	25437	0.040338	9134
-7.53M	25448	0.035364	9132

ELEV. M,MSL	PZT NO.	THERMAL FACTOR	THERMISTOR READING, OHMS
-3.04M	25436	-0.028629	3213
-4.94M	25437	-0.036304	3246
-7.53M	25448	-0.010609	3310

ELEV. M,MSL	PZT NO.	TEMPERATURE, DEGREES C
-3.04M	25436	23.45
-4.94M	25437	23.22
-7.53M	25448	22.78

ELEV. M,MSL	PZT NO.	PORE PRESSURE, KPA
-3.04M	25436	37.8
-4.94M	25437	59.3
-7.53M	25448	80.6

ELEV. M,MSL	PZT NO.	PORE PRESSURE, KPA EXCLUDING AFTER TEST MEASUREMENTS
-3.04M	25436	37.8
-4.94M	25437	59.3
-7.53M	25448	80.6

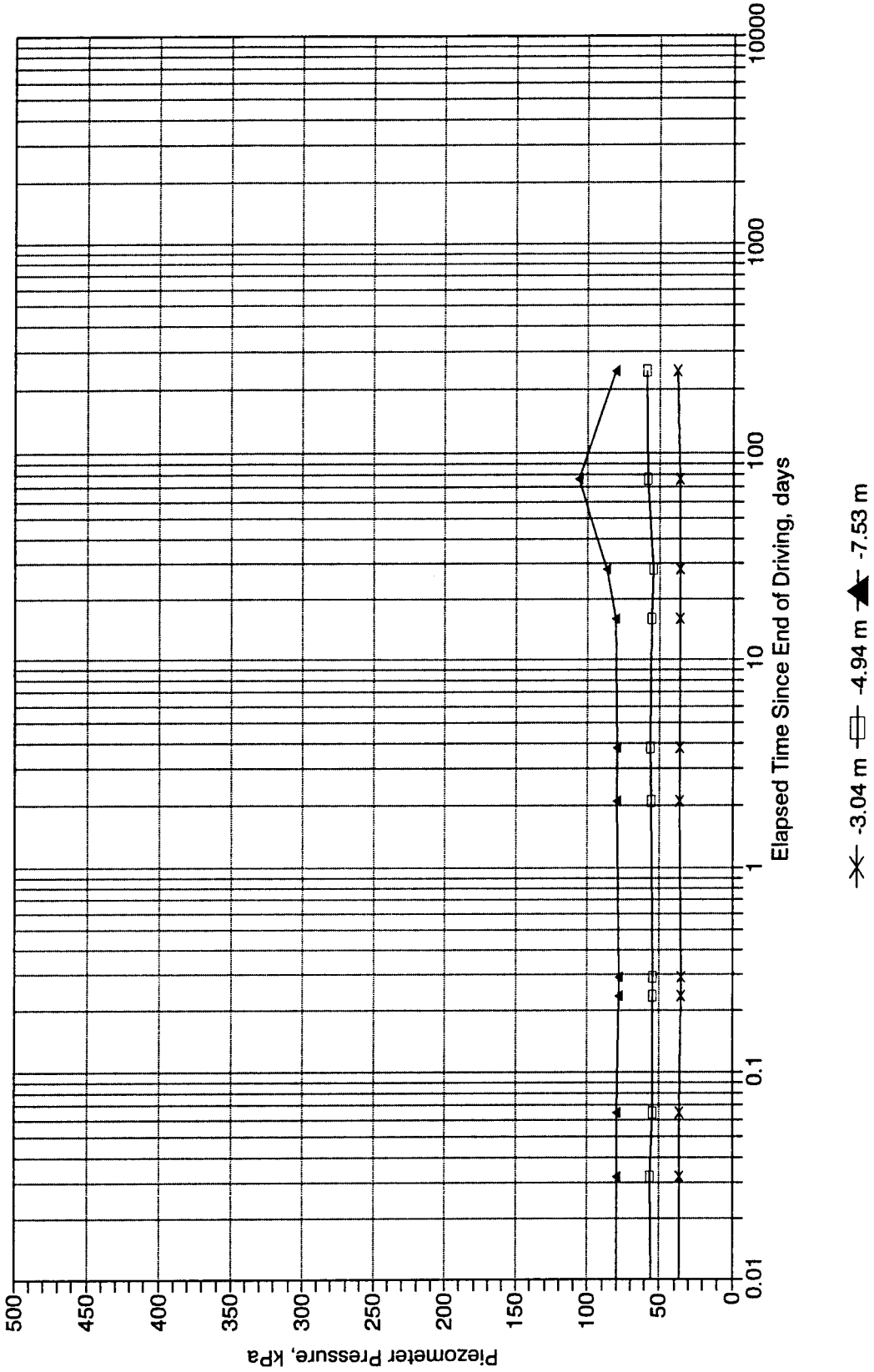

Figure G.3 Pore Pressure (VLE)

Table G.4 Pore Pressure Measurements (VLW)

DRIVEN 14:52 08/24/94

DATE, MM/DD/YY				08/24/94	08/24/94	08/24/94	08/24/94	08/24/94	08/24/94	08/24/94
TIME, HH:MM			UF LAB	15:14	16:30	17:15	18:30	19:45	20:45	23:15
ELAPSED TIME, DAYS			INIT.	0.02	0.07	0.10	0.15	0.20	0.25	0.35
BEFORE/AFTER TEST			RDGS.	BT	BT	BT	BT	BT	BT	AT
ELEV. M,MSL	PZT NO.	PRESSURE FACTOR	PIEZOMETER READING, HZ^2/1000 (GK-401 POSITION "B")							
- 6.50M	25442	0.039168	9279	9098	NA	NA	NA	NA	NA	NA
- 9.70M	25429	0.038284	9510	8972	9072	9087	9100	9107	9110	9100
-12.29M	25441	0.038625	9413	8312	8363	8372	8383	8388	8393	8330
-14.88M	25438	0.038519	9569	8212	8418	8465	8518	8557	8582	8541
ELEV. M,MSL	PZT NO.	THERMAL FACTOR	THERMISTOR READING, OHMS							
- 6.50M	25442	-0.027417	3111	2462	CR10	CR10	CR10	CR10	CR10	CR10
- 9.70M	25429	-0.026799	3167	2744	CR10	CR10	CR10	CR10	CR10	CR10
-12.29M	25441	-0.034762	3161	2725	CR10	CR10	CR10	CR10	CR10	CR10
-14.88M	25438	-0.038519	3126	2719	CR10	CR10	CR10	CR10	CR10	CR10
ELEV. M,MSL	PZT NO.		TEMPERATURE, DEGREES C							
- 6.50M	25442		24.18	29.57	NA	NA	NA	NA	NA	NA
- 9.70M	25429		23.78	27.05	26.36	26.05	25.69	25.36	25.16	24.77
-12.29M	25441		23.82	27.21	26.64	26.36	25.99	25.69	25.53	25.16
-14.88M	25438		24.07	27.26	26.57	26.25	25.86	25.56	25.33	24.97
ELEV. M,MSL	PZT NO.		PORE PRESSURE, KPA							
- 6.50M	25442		0.0	47.9	58.3	56.7	54.9	53.6	52.8	NA
- 9.70M	25429		0.0	141.4	115.0	111.1	107.8	106.2	105.3	107.9
-12.29M	25441		0.0	292.4	279.0	276.7	273.9	272.4	271.3	288.1
-14.88M	25438		0.0	359.5	305.0	292.8	278.6	268.4	261.8	272.8
ELEV. M,MSL	PZT NO.		PORE PRESSURE, KPA EXCLUDING AFTER TEST MEASUREMENTS							
- 6.50M	25442			47.9	58.3	56.7	54.9	53.6	52.8	
- 9.70M	25429			141.4	115.0	111.1	107.8	106.2	105.3	
-12.29M	25441			292.4	279.0	276.7	273.9	272.4	271.3	
-14.88M	25438			359.5	305.0	292.8	278.6	268.4	261.8	

PZT 25442 PORE PRESSURE AT 16:02 08/24/94 WAS 59.72 KPA, BUT IT DID NOT FUNCTION AGAIN UNTIL 08:26 08/27/94. PORE PRESSURE BETWEEN THESE TIMES IS INTERPOLATED.

Table G.4 continued

DRIVEN 14:52 08/24/94

DATE, MM/DD/YY			08/25/94	08/26/94	08/27/94	08/27/94	08/30/94	08/31/94	09/12/94	09/12/94
TIME, HH:MM			10:00	09:27	09:18	13:45	12:23	07:48	09:49	17:45
ELAPSED TIME, DAYS			0.80	1.77	2.77	2.95	5.90	6.71	18.79	19.12
BEFORE/AFTER TEST			BT	BT	BT	AT	BT	BT	BT	AT
ELEV. M,MSL	PZT NO.	PRESSURE FACTOR	PIEZOMETER READING, HZ^2/1000 (GK-401 POSITION "B")							
- 6.50M	25442	0.039168	NA	9114	9117	9063	9103	9102	9098	9061
- 9.70M	25429	0.038284	9119	9115	9119	9123	9127	9126	9124	9125
-12.29M	25441	0.038625	8409	8450	8479	8445	8537	8554	8705	8702
-14.88M	25438	0.038519	8747	8837	8882	8841	8939	8946	8974	8965
ELEV. M,MSL	PZT NO.	THERMAL FACTOR	THERMISTOR READING, OHMS							
- 6.50M	25442	-0.027417	CR10	2962	3038	CR10	3165	3184	3290	CR10
- 9.70M	25429	-0.026799	CR10	3222	3252	CR10	3280	3290	3310	CR10
-12.29M	25441	-0.034762	CR10	3164	3197	CR10	3237	3241	3260	CR10
-14.88M	25438	-0.038519	CR10	3193	3221	CR10	3252	3255	3270	CR10
ELEV. M,MSL	PZT NO.		TEMPERATURE, DEGREES C							
- 6.50M	25442		NA	25.30	24.72	24.65	23.79	23.65	22.92	22.95
- 9.70M	25429		23.95	23.39	23.18	23.17	22.98	22.92	22.78	22.79
-12.29M	25441		24.41	23.80	23.56	23.55	23.28	23.25	23.12	23.07
-14.88M	25438		24.15	23.59	23.39	23.39	23.18	23.16	23.05	23.04
ELEV. M,MSL	PZT NO.		PORE PRESSURE, KPA							
- 6.50M	25442		47.8	44.3	43.6	58.2	47.6	47.9	49.1	59.2
- 9.70M	25429		103.1	104.3	103.3	102.2	101.2	101.5	102.1	101.9
-12.29M	25441		267.3	256.5	248.8	257.7	233.4	228.9	188.7	189.5
-14.88M	25438		218.3	194.5	182.6	193.6	167.6	165.7	158.3	160.8
ELEV. M,MSL	PZT NO.		PORE PRESSURE, KPA EXCLUDING AFTER TEST MEASUREMENTS							
- 6.50M	25442		47.8	44.3	43.6		47.6	47.9	49.1	
- 9.70M	25429		103.1	104.3	103.3		101.2	101.5	102.1	
-12.29M	25441		267.3	256.5	248.8		233.4	228.9	188.7	
-14.88M	25438		218.3	194.5	182.6		167.6	165.7	158.3	

Table G.4 continued

DRIVEN 14:52 08/24/94

DATE, MM/DD/YY			09/12/94	12/14/94	01/28/95	01/28/95	02/02/95
TIME, HH:MM			18:51	19:23	09:30	17:45	18:15
ELAPSED TIME, DAYS			19.17	112.19	156.78	157.12	162.14
BEFORE/AFTER TEST			AT	BT	BT	AT	AT
ELEV. M,MSL	PZT NO.	PRESSURE FACTOR	PIEZOMETER READING, HZ^2/1000 (GK-401 POSITION "B")				
- 6.50M	25442	0.039168	9097	9093	9111	9113	9119
- 9.70M	25429	0.038284	9119	9117	9138	9141	9146
-12.29M	25441	0.038625	8689	8819	8809	8807	8798
-14.88M	25438	0.038519	8957	8976	8996	8992	8997
ELEV. M,MSL	PZT NO.	THERMAL FACTOR	THERMISTOR READING, OHMS				
- 6.50M	25442	-0.027417	3280	3280	3270	3270	3270
- 9.70M	25429	-0.026799	3310	3320	3310	3310	3310
-12.29M	25441	-0.034762	3260	3280	3290	3280	3280
-14.88M	25438	-0.038519	3270	3280	3280	3280	3280
ELEV. M,MSL	PZT NO.		TEMPERATURE, DEGREES C				
- 6.50M	25442		22.98	22.98	23.05	23.05	23.05
- 9.70M	25429		22.78	22.71	22.78	22.78	22.78
-12.29M	25441		23.12	22.98	22.92	22.98	22.98
-14.88M	25438		23.05	22.98	22.98	22.98	22.98
ELEV. M,MSL	PZT NO.		PORE PRESSURE, KPA				
- 6.50M	25442		49.4	50.5	45.6	45.0	43.4
- 9.70M	25429		103.4	103.9	98.4	97.6	96.3
-12.29M	25441		193.0	158.4	161.1	161.6	164.0
-14.88M	25438		162.8	157.8	152.5	153.5	152.2
ELEV. M,MSL	PZT NO.		PORE PRESSURE, KPA EXCLUDING AFTER TEST MEASUREMENTS				
- 6.50M	25442			50.5	45.6		
- 9.70M	25429			103.9	98.4		
-12.29M	25441			158.4	161.1		
-14.88M	25438			157.8	152.5		

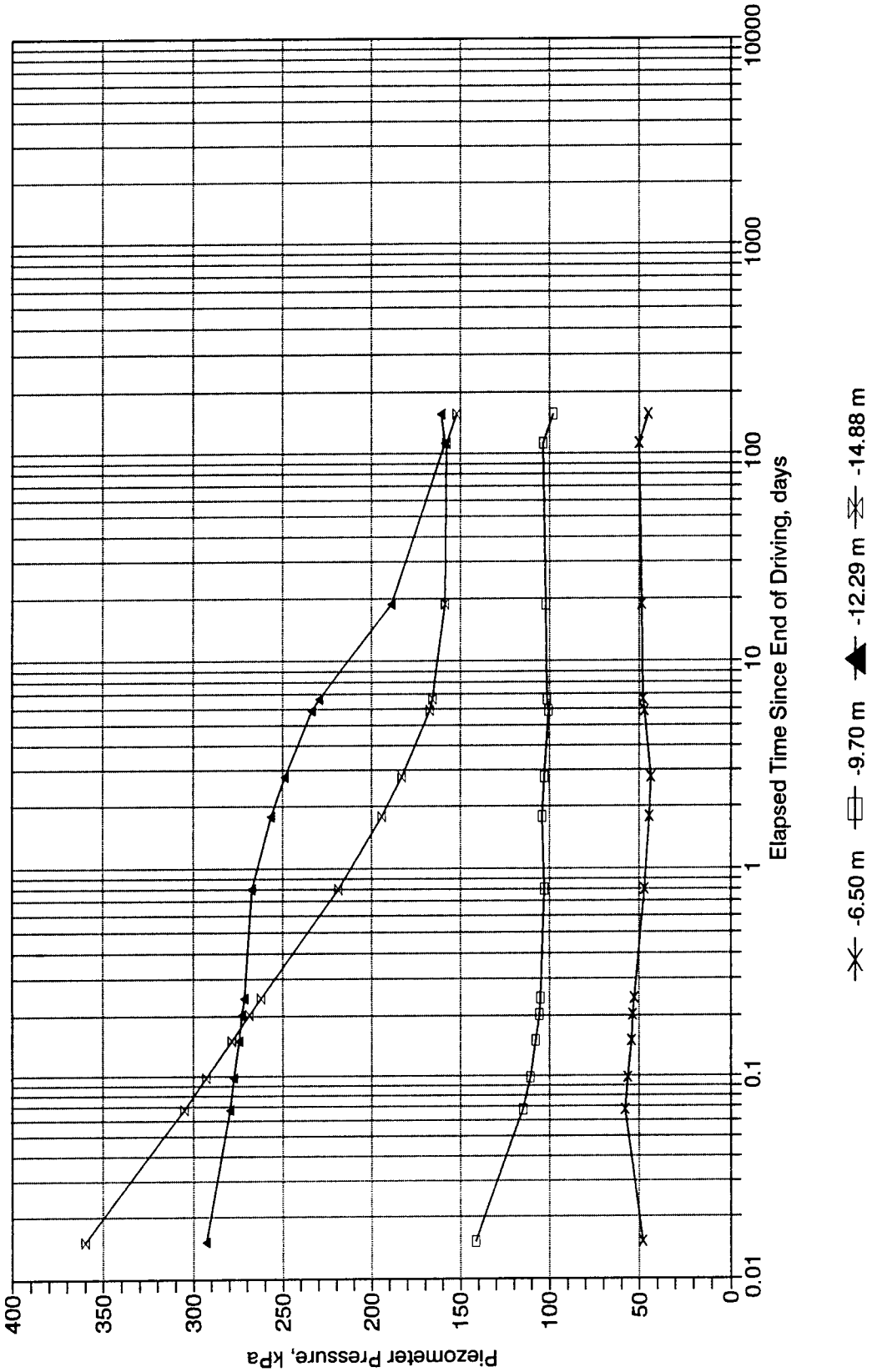

Figure G.4 Pore Pressure (VLW)

Table G.5 Pore Pressure Measurments (SBZ)

DRIVEN 15:36 01/26/96

DATE, MM/DD/YY				01/26/96	01/26/96	01/26/96	01/26/96	01/26/96	01/26/96	01/26/96
TIME, HH:MM			UF LAB	17:14	18:00	18:30	19:00	19:30	20:00	20:30
ELAPSED TIME, DAYS			INIT.	0.07	0.10	0.12	0.14	0.16	0.18	0.20
BEFORE/AFTER TEST			RDGS.	BT	BT	BT	BT	BT	BT	BT
ELEV. M,MSL	PZT NO.	PRESSURE FACTOR	PIEZOMETER READING, HZ^2/1000 (GK-401 POSITION "B")							
- 7.74M	25446	0.038669	8597	8296	8297	8297	8298	8298	8298	8299
-12.61M	25435	0.037837	9581	9090	9091	9092	9092	9093	9093	9094
-15.89M	25432	0.035518	9691	7840	7944	8006	8066	8120	8172	8219
-19.24M	25439	0.037206	9372	6739	6937	7024	7104	7176	7243	7305
ELEV. M,MSL	PZT NO.	THERMAL FACTOR	THERMISTOR READING, OHMS							
- 7.74M	25446	-0.023201	2730	3212	CR10	CR10	CR10	CR10	CR10	CR10
-12.61M	25435	-0.034054	2821	3143	CR10	CR10	CR10	CR10	CR10	CR10
-15.89M	25432	-0.039070	2709	3132	CR10	CR10	CR10	CR10	CR10	CR10
-19.24M	25439	-0.029765	2965	3270	CR10	CR10	CR10	CR10	CR10	CR10
ELEV. M,MSL	PZT NO.		TEMPERATURE, DEGREES C							
- 7.74M	25446		27.17	23.46	23.315	23.414	23.519	23.615	23.711	23.775
-12.61M	25435		26.42	23.95	23.804	23.914	23.999	24.064	24.128	24.172
-15.89M	25432		27.35	24.03	23.761	23.808	23.860	23.871	23.914	23.935
-19.24M	25439		25.27	23.05	22.874	22.992	23.075	23.139	23.224	23.287
ELEV. M,MSL	PZT NO.		PORE PRESSURE, KPA							
- 7.74M	25446		0.0	80.8	80.7	80.5	80.4	80.3	80.2	80.0
-12.61M	25435		0.0	128.7	128.4	128.2	128.0	127.9	127.8	127.7
-15.89M	25432		0.0	454.2	428.7	413.5	399.0	385.5	372.9	361.4
-19.24M	25439		0.0	675.9	625.1	602.8	582.2	563.9	546.7	530.8
ELEV. M,MSL	PZT NO.		PORE PRESSURE, KPA EXCLUDING AFTER TEST MEASUREMENTS							
- 7.74M	25446			80.8	80.7	80.5	80.4	80.3	80.2	80.0
-12.61M	25435			128.7	128.4	128.2	128.0	127.9	127.8	127.7
-15.89M	25432			454.2	428.7	413.5	399.0	385.5	372.9	361.4
-19.24M	25439			675.9	625.1	602.8	582.2	563.9	546.7	530.8

Table G.5 continued

DRIVEN 15:36 01/26/96

DATE, MM/DD/YY			01/26/96	01/26/96	01/26/96	01/26/96	01/27/96	01/28/96	01/30/96	01/30/96
TIME, HH:MM			21:00	21:30	22:00	22:30	11:35	11:34	09:50	14:44
ELAPSED TIME, DAYS			0.23	0.25	0.27	0.29	0.83	1.83	3.76	3.96
BEFORE/AFTER TEST			BT	BT	BT	BT	BT	BT	BT	BT
ELEV. M,MSL	PZT NO.	PRESSURE FACTOR	PIEZOMETER READING, HZ^2/1000 (GK-401 POSITION "B")							
- 7.74M	25446	0.038669	8299	8300	8301	8301	8304	8306	8304	8307
-12.61M	25435	0.037837	9094	9095	9095	9096	9097	9099	9098	9102
-15.89M	25432	0.035518	8262	8302	8339	8372	8812	8980	9041	9047
-19.24M	25439	0.037206	7361	7413	7460	7506	8066	8356	8509	8517
ELEV. M,MSL	PZT NO.	THERMAL FACTOR	THERMISTOR READING, OHMS							
- 7.74M	25446	-0.023201	CR10	CR10	CR10	CR10	CR10	2979	2966	CR10
-12.61M	25435	-0.034054	CR10	CR10	CR10	CR10	CR10	2992	2991	CR10
-15.89M	25432	-0.039070	CR10	CR10	CR10	CR10	CR10	3036	3028	CR10
-19.24M	25439	-0.029765	CR10	CR10	CR10	CR10	CR10	3073	3054	CR10
ELEV. M,MSL	PZT NO.		TEMPERATURE, DEGREES C							
- 7.74M	25446		23.839	23.903	23.935	24.000	24.592	25.17	25.27	24.873
-12.61M	25435		24.333	24.333	24.333	24.344	24.624	25.07	25.08	24.677
-15.89M	25432		23.946	23.978	24.011	24.032	24.312	24.73	24.79	24.417
-19.24M	25439		23.308	23.340	23.393	23.403	23.849	24.46	24.60	24.320
ELEV. M,MSL	PZT NO.		PORE PRESSURE, KPA							
- 7.74M	25446		79.9	79.7	79.6	79.5	78.6	77.9	78.4	77.6
-12.61M	25435		127.5	127.3	127.2	127.1	126.6	126.1	126.3	125.3
-15.89M	25432		350.8	341.1	332.1	323.8	216.2	174.8	159.9	158.4
-19.24M	25439		516.2	503.0	490.8	479.1	335.4	260.8	221.5	219.4
ELEV. M,MSL	PZT NO.		PORE PRESSURE, KPA EXCLUDING AFTER TEST MEASUREMENTS							
- 7.74M	25446		79.9	79.7	79.6	79.5	78.6	77.9	78.4	77.6
-12.61M	25435		127.5	127.3	127.2	127.1	126.6	126.1	126.3	125.3
-15.89M	25432		350.8	341.1	332.1	323.8	216.2	174.8	159.9	158.4
-19.24M	25439		516.2	503.0	490.8	479.1	335.4	260.8	221.5	219.4

Table G.5 continued

DRIVEN 15:36 01/26/96

DATE, MM/DD/YY			01/30/96	02/01/96	02/06/96	02/13/96	02/13/96	03/06/96	04/05/96	04/05/96
TIME, HH:MM			19:09	18:11	08:30	12:15	18:27	13:32	10:36	16:51
ELAPSED TIME, DAYS			4.15	6.11	10.70	17.86	18.12	39.91	69.79	70.05
BEFORE/AFTER TEST			AT	BT	BT	BT	AT	BT	BT	AT
ELEV. M,MSL	PZT NO.	PRESSURE FACTOR	PIEZOMETER READING, HZ^2/1000 (GK-401 POSITION "B")							
- 7.74M	25446	0.038669	8306	8308	8300	8300	8299	8292	8303	8306
-12.61M	25435	0.037837	9100	9095	9083	9093	9095	9105	9106	9114
-15.89M	25432	0.035518	8850	9061	9060	9069	8987	9066	9059	9049
-19.24M	25439	0.037206	8296	8562	8594	8614	8477	8633	8630	8624
ELEV. M,MSL	PZT NO.	THERMAL FACTOR	THERMISTOR READING, OHMS							
- 7.74M	25446	-0.023201	2965	2962	2960	2962	2962	2973	2989	2990
-12.61M	25435	-0.034054	2991	2992	2995	3000	3000	3009	3013	3014
-15.89M	25432	-0.039070	3027	3025	3025	3028	3028	3038	3045	3045
-19.24M	25439	-0.029765	3052	3047	3044	3046	3045	3055	3063	3064
ELEV. M,MSL	PZT NO.		TEMPERATURE, DEGREES C							
- 7.74M	25446		25.27	25.30	25.31	25.30	25.30	25.21	25.09	25.08
-12.61M	25435		25.08	25.07	25.04	25.01	25.01	24.94	24.91	24.90
-15.89M	25432		24.80	24.82	24.82	24.79	24.79	24.72	24.67	24.67
-19.24M	25439		24.62	24.65	24.67	24.66	24.67	24.59	24.53	24.53
ELEV. M,MSL	PZT NO.		PORE PRESSURE, KPA							
- 7.74M	25446		77.9	77.4	79.5	79.6	79.8	81.6	78.7	77.9
-12.61M	25435		125.9	127.2	130.2	127.6	127.1	124.5	124.3	122.2
-15.89M	25432		206.6	155.0	155.2	153.0	173.2	153.8	155.5	157.9
-19.24M	25439		276.2	207.9	199.7	194.6	229.7	189.7	190.5	192.0
ELEV. M,MSL	PZT NO.		PORE PRESSURE, KPA EXCLUDING AFTER TEST MEASUREMENTS							
- 7.74M	25446			77.4	79.5	79.6		81.6	78.7	
-12.61M	25435			127.2	130.2	127.6		124.5	124.3	
-15.89M	25432			155.0	155.2	153.0		153.8	155.5	
-19.24M	25439			207.9	199.7	194.6		189.7	190.5	

Table G.5 continued

DRIVEN 15:36 01/26/96

DATE, MM/DD/YY			05/17/96	11/14/96	11/14/96	03/26/97	12/18/98
TIME, HH:MM			15:37	09:42	17:06	12:52	18:38
ELAPSED TIME, DAYS			112.00	292.75	293.06	424.89	1057.13
BEFORE/AFTER TEST			BT	BT	AT	BT	BT
ELEV. M,MSL	PZT NO.	PRESSURE FACTOR	PIEZOMETER READING, HZ^2/1000 (GK-401 POSITION "B")				
- 7.74M	25446	0.038669	8312	8316	8309	8329	8350
-12.61M	25435	0.037837	9106	9103	9094	9112	9117
-15.89M	25432	0.035518	9039	8995	8995	9036	9074
-19.24M	25439	0.037206	8649	8643	8611	8645	8646
ELEV. M,MSL	PZT NO.	THERMAL FACTOR	THERMISTOR READING, OHMS				
- 7.74M	25446	-0.023201	3018	3029	3029	3013	3050
-12.61M	25435	-0.034054	3017	3028	3029	3031	3058
-15.89M	25432	-0.039070	3050	3052	3052	3058	3068
-19.24M	25439	-0.029765	3071	3078	3078	3081	3122
ELEV. M,MSL	PZT NO.		TEMPERATURE, DEGREES C				
- 7.74M	25446		24.87	24.79	24.79	24.91	24.63
-12.61M	25435		24.88	24.79	24.79	24.77	24.57
-15.89M	25432		24.63	24.62	24.62	24.57	24.50
-19.24M	25439		24.47	24.42	24.42	24.40	24.10
ELEV. M,MSL	PZT NO.		PORE PRESSURE, KPA				
- 7.74M	25446		76.5	75.3	77.2	71.8	66.3
-12.61M	25435		124.3	125.1	127.4	122.7	121.5
-15.89M	25432		160.4	171.2	171.2	161.2	152.0
-19.24M	25439		185.6	187.2	195.4	186.7	186.6
ELEV. M,MSL	PZT NO.		PORE PRESSURE, KPA EXCLUDING AFTER TEST MEASUREMENTS				
- 7.74M	25446		76.5	75.3		71.8	66.3
-12.61M	25435		124.3	125.1		122.7	121.5
-15.89M	25432		160.4	171.2		161.2	152.0
-19.24M	25439		185.6	187.2		186.7	186.6

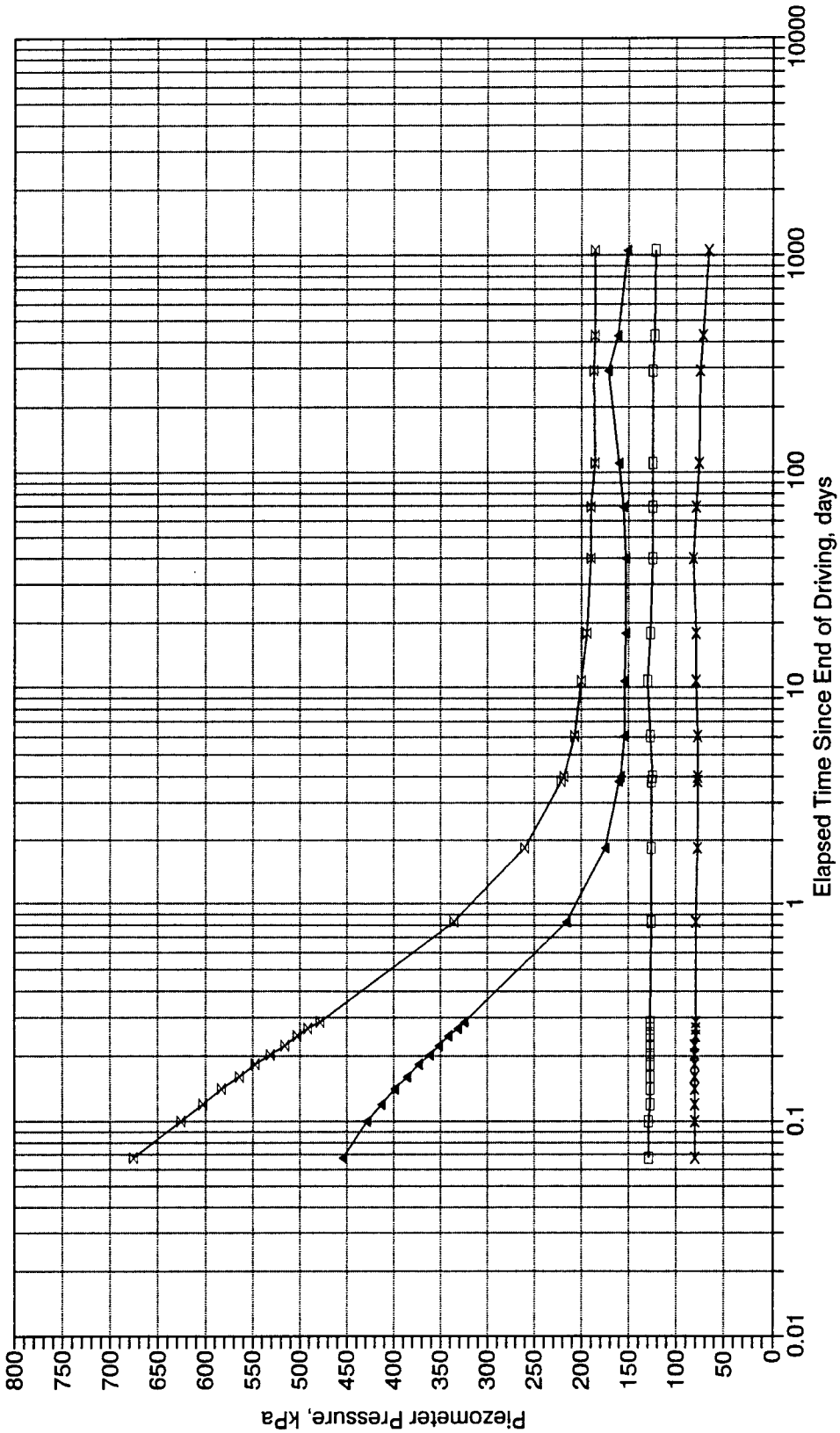

Figure G.5 Pore Pressure (SBZ)

APPENDIX H
TEST PILE TOTAL AND EFFECTIVE STRESS MEASUREMENTS

Table H.1 Total and Effective Stresses (BKM)

DRIVEN 13:45 03/26/94

DATE, MM/DD/YY			03/26/94	03/26/94	03/26/94	03/26/94	03/26/94	03/26/94	03/26/94
TIME, HH:MM			13:50	14:25	14:55	15:40	16:16	17:46	21:30
ELAPSED TIME, DAYS			0.003	0.03	0.05	0.08	0.10	0.17	0.32
BEFORE/AFTER TEST			BT	BT	BT	BT	BT	BT	AT
ELEV. M,MSL	DMT NO.	DELTA A (BARS)	DILATOMETER READING, BARS (CORRECTED FOR GAGE ZERO)						
+1.58M	12	0.155	-0.145	-0.145	NA	NA	-0.140	NA	-0.130
-0.25M	10	0.155	0.125	0.080	NA	NA	0.040	NA	-0.020
-1.93M	14	0.075	0.495	0.410	NA	NA	0.310	NA	0.260
-3.53M	15	0.160	0.365	0.320	NA	NA	0.320	NA	0.290
ELEV. M,MSL	DMT NO.		TOTAL STRESS, KPA						
+1.58M	12		1.0	1.0	NA	NA	1.5	NA	2.5
-0.25M	10		28.0	23.5	NA	NA	19.5	NA	13.5
-1.93M	14		57.0	48.5	NA	NA	38.5	NA	33.5
-3.53M	15		52.5	48.0	NA	NA	48.0	NA	45.0
ELEV. M,MSL	DMT NO.		TOTAL STRESS, KPA EXCLUDING AFTER TEST MEASUREMENTS						
+1.58M	12		SEE NOTE BELOW						
-0.25M	10		28.0	23.5			19.5		
-1.93M	14		57.0	48.5			38.5		
-3.53M	15		52.5	48.0			48.0		
ELEV. M,MSL	PIEZO. NO.	DMT NO.	EFFECTIVE STRESS, KPA						
+1.58M	PZT 25445 &	DMT 12	SEE NOTE BELOW						
-0.25M	PZT 25434 &	DMT 10	-0.9	1.4	NA	NA	4.9	NA	NA
-1.93M	PZT 25431 &	DMT 14	-1.5	3.6	NA	NA	8.3	NA	NA
-3.53M	PZT 25447 &	DMT 15	-8.1	5.6	NA	NA	11.0	NA	NA
ELEV. M,MSL	PIEZO. NO.	DMT NO.	EFFECTIVE STRESS, KPA EXCLUDING AFTER TEST MEASUREMENTS						
+1.58M	PZT 25445 &	DMT 12	SEE NOTE BELOW						
-0.25M	PZT 25434 &	DMT 10	-0.9	1.4			4.9		
-1.93M	PZT 25431 &	DMT 14	-1.5	3.6			8.3		
-3.53M	PZT 25447 &	DMT 15	-8.1	5.6			11.0		

PZT 25445 AND DMT 12 WERE LOCATED ABOVE THE WATER TABLE ARE UNRELIABLE. THE SMALL NEGATIVE PORE PRESSURES PROBABLY INDICATE PZT DESATURATION. NEGATIVE DMT READINGS INDICATE THAT THE MEMBRANE STIFFNESS (DA) EXCEEDED THE TOTAL SOIL STRESS.

Table H.1 continued

DRIVEN 13:45 03/26/94

DATE, MM/DD/YY			03/28/94	03/29/94	03/29/94	04/11/94	04/11/94	05/31/94	05/31/94	12/19/94
TIME, HH:MM			13:15	16:30	18:39	08:15	14:05	09:40	16:20	10:00
ELAPSED TIME, DAYS			1.98	3.11	3.20	15.77	16.01	65.83	66.11	267.84
BEFORE/AFTER TEST			BT	BT	AT	BT	AT	BT	AT	BT
ELEV. M,MSL	DMT NO.	DELTA A (BARS)	DILATOMETER READING, BARS (CORRECTED FOR GAGE ZERO)							
+1.58M	12	0.155	-0.130	-0.130	-0.130	-0.145	-0.145	-0.125	-0.135	-0.150
-0.25M	10	0.155	0.045	0.010	-0.025	-0.040	-0.025	-0.030	-0.045	0.020
-1.93M	14	0.075	0.290	0.260	0.245	0.280	0.250	0.310	0.245	0.340
-3.53M	15	0.160	0.315	0.280	0.280	0.280	0.255	0.295	0.265	0.350
ELEV. M,MSL	DMT NO.		TOTAL STRESS, KPA							
+1.58M	12		2.5	2.5	2.5	1.0	1.0	3.0	2.0	0.5
-0.25M	10		20.0	16.5	13.0	11.5	13.0	12.5	11.0	17.5
-1.93M	14		36.5	33.5	32.0	35.5	32.5	38.5	32.0	41.5
-3.53M	15		47.5	44.0	44.0	44.0	41.5	45.5	42.5	51.0
ELEV. M,MSL	DMT NO.		TOTAL STRESS, KPA EXCLUDING AFTER TEST MEASUREMENTS							
+1.58M	12		SEE NOTE BELOW							
-0.25M	10		20.0	16.5		11.5		12.5		17.5
-1.93M	14		36.5	33.5		35.5		38.5		41.5
-3.53M	15		47.5	44.0		44.0		45.5		51.0
ELEV. M,MSL	PIEZO. NO.	DMT NO.	EFFECTIVE STRESS, KPA							
+1.58M	PZT 25445 &	DMT 12	SEE NOTE BELOW							
-0.25M	PZT 25434 &	DMT 10	8.6	2.8	NA	1.1	1.4	0.3	NA	2.6
-1.93M	PZT 25431 &	DMT 14	12.8	9.3	NA	11.3	6.5	14.1	NA	15.8
-3.53M	PZT 25447 &	DMT 15	8.3	8.6	NA	6.0	2.8	7.2	NA	8.9
ELEV. M,MSL	PIEZO. NO.	DMT NO.	EFFECTIVE STRESS, KPA EXCLUDING AFTER TEST MEASUREMENTS							
+1.58M	PZT 25445 &	DMT 12	SEE NOTE BELOW							
-0.25M	PZT 25434 &	DMT 10	8.6	2.8		1.1		0.3		2.6
-1.93M	PZT 25431 &	DMT 14	12.8	9.3		11.3		14.1		15.8
-3.53M	PZT 25447 &	DMT 15	8.3	8.6		6.0		7.2		8.9

PZT 25445 AND DMT 12 WERE LOCATED ABOVE THE WATER TABLE ARE UNRELIABLE. THE SMALL NEGATIVE PORE PRESSURES PROBABLY INDICATE PZT DESATURATION. NEGATIVE DMT READINGS INDICATE THAT THE MEMBRANE STIFFNESS (DA) EXCEEDED THE TOTAL SOIL STRESS.

Table H.1 continued

DRIVEN 13:45 03/26/94

DATE, MM/DD/YY	12/19/94	12/19/94
TIME, HH:MM	15:13	15:57
ELAPSED TIME, DAYS	268.06	268.09
BEFORE/AFTER TEST	AT	AT

ELEV. M,MSL	DMT NO.	DELTA A (BARS)	DILATOMETER READING, BARS (CORRECTED FOR GAGE ZERO)	
+1.58M	12	0.155	-0.155	-0.150
-0.25M	10	0.155	0.020	0.020
-1.93M	14	0.075	0.310	0.290
-3.53M	15	0.160	0.330	0.330

ELEV. M,MSL	DMT NO.	TOTAL STRESS, KPA	
+1.58M	12	0.0	0.5
-0.25M	10	17.5	17.5
-1.93M	14	38.5	36.5
-3.53M	15	49.0	49.0

ELEV. M,MSL	DMT NO.	TOTAL STRESS, KPA EXCLUDING AFTER TEST MEASUREMENTS
+1.58M	12	
-0.25M	10	
-1.93M	14	
-3.53M	15	

ELEV. M,MSL	PIEZO. NO.	DMT NO.	EFFECTIVE STRESS, KPA	
+1.58M	PZT 25445 & DMT 12			
-0.25M	PZT 25434 & DMT 10		NA	2.1
-1.93M	PZT 25431 & DMT 14		NA	9.8
-3.53M	PZT 25447 & DMT 15		NA	7.2

ELEV. M,MSL	PIEZO. NO.	DMT NO.	EFFECTIVE STRESS, KPA EXCLUDING AFTER TEST MEASUREMENTS
+1.58M	PZT 25445 & DMT 12		
-0.25M	PZT 25434 & DMT 10		
-1.93M	PZT 25431 & DMT 14		
-3.53M	PZT 25447 & DMT 15		

PZT 25445 AND DMT 12 WERE LOCATED ABOVE THE WATER TABLE ARE UNRELIABLE. THE SMALL NEGATIVE PORE PRESSURES PROBABLY INDICATE PZT DESATURATION. NEGATIVE DMT READINGS INDICATE THAT THE MEMBRANE STIFFNESS (DA) EXCEEDED THE TOTAL SOIL STRESS.

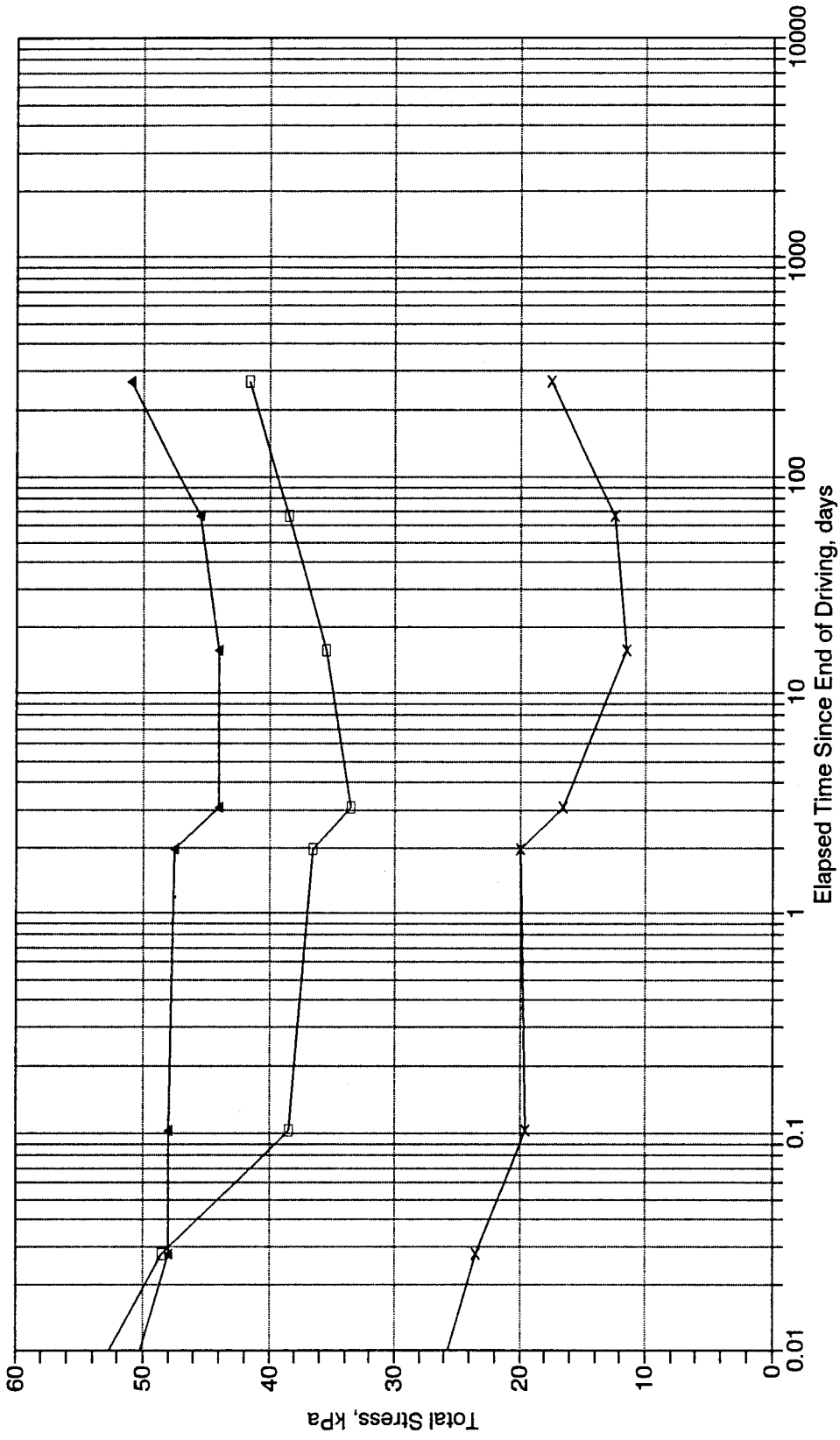

Figure H.1 Total Stress (BKM)

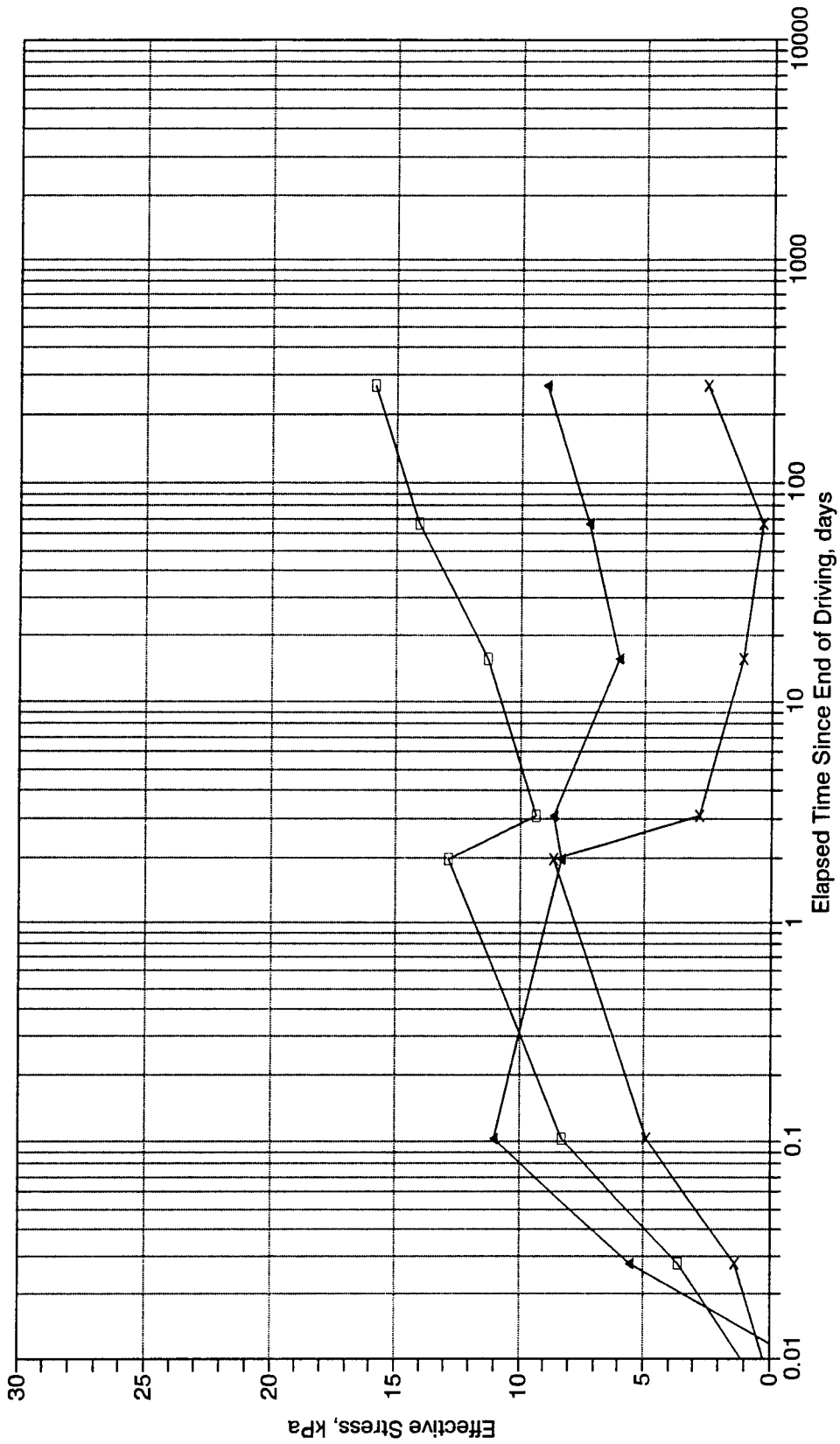

Figure H.2 Effective Stress (BKM)

Table H.2 Total and Effective Stresses (AUC)

DRIVEN 11:43 03/30/94

DATE, MM/DD/YY			03/30/94	03/30/94	03/30/94	03/30/94	03/30/94	03/31/94	03/31/94
TIME, HH:MM			12:05	13:38	14:50	15:47	17:01	08:45	10:32
ELAPSED TIME, DAYS			0.02	0.08	0.13	0.17	0.22	0.88	0.95
BEFORE/AFTER TEST			BT	BT	BT	BT	BT	BT	BT
ELEV. M,MSL	DMT NO.	DELTA A (BARS)	DILATOMETER READING, BARS (CORRECTED FOR GAGE ZERO)						
+11.96M	13	0.095	NA	NA	NA	1.935	1.785	1.555	1.385
+ 7.70M	17	0.040	NA	NA	NA	2.185	1.705	1.215	1.095
+ 5.11M	3	0.130	NA	NA	NA	3.125	3.075	2.785	2.715
+ 2.21M	4	0.105	NA	NA	NA	2.955	2.915	2.565	2.515
- 1.30M	19	0.120	NA	NA	NA	3.805	3.705	3.185	3.035
ELEV. M,MSL	DMT NO.		TOTAL STRESS, KPA						
+11.96M	13		NA	NA	NA	203.0	188.0	165.0	148.0
+ 7.70M	17		NA	NA	NA	222.5	174.5	125.5	113.5
+ 5.11M	3		NA	NA	NA	325.5	320.5	291.5	284.5
+ 2.21M	4		NA	NA	NA	306.0	302.0	267.0	262.0
- 1.30M	19		NA	NA	NA	392.5	382.5	330.5	315.5
ELEV. M,MSL	DMT NO.		TOTAL STRESS, KPA EXCLUDING AFTER TEST MEASUREMENTS						
+11.96M	13					203.0	188.0	165.0	148.0
+ 7.70M	17					222.5	174.5	125.5	113.5
+ 5.11M	3					325.5	320.5	291.5	284.5
+ 2.21M	4					306.0	302.0	267.0	262.0
- 1.30M	19					392.5	382.5	330.5	315.5
ELEV. M,MSL	PIEZO. NO.	DMT NO.	EFFECTIVE STRESS, KPA						
+11.96M	PZT 25444 &	DMT 13	NA	NA	NA	NA	48.4	63.0	51.6
+ 7.70M	PZT 25443 &	DMT 17	NA	NA	NA	NA	28.0	20.3	13.6
+ 5.11M	PZT 25440 &	DMT 3	NA	NA	NA	NA	46.6	111.5	114.4
+ 2.21M	PZT 25430 &	DMT 4	NA	NA	NA	NA	42.1	76.0	78.6
- 1.30M	PZT 25433 &	DMT 19	NA	NA	NA	NA	88.8	132.8	125.5
ELEV. M,MSL	PIEZO. NO.	DMT NO.	EFFECTIVE STRESS, KPA EXCLUDING AFTER TEST MEASUREMENTS						
+11.96M	PZT 25444 &	DMT 13					48.4	63.0	51.6
+ 7.70M	PZT 25443 &	DMT 17					28.0	20.3	13.6
+ 5.11M	PZT 25440 &	DMT 3					46.6	111.5	114.4
+ 2.21M	PZT 25430 &	DMT 4					42.1	76.0	78.6
- 1.30M	PZT 25433 &	DMT 19					88.8	132.8	125.5

Table H.2 continued

DRIVEN 11:43 03/30/94

DATE, MM/DD/YY			03/31/94	04/02/94	04/02/94	04/02/94	04/02/94	04/15/94	04/15/94	04/15/94
TIME, HH:MM			14:00	08:25	10:45	14:00	14:56	11:32	16:05	16:38
ELAPSED TIME, DAYS			1.10	2.86	2.96	3.10	3.13	15.99	16.18	16.20
BEFORE/AFTER TEST			AT	BT	BT	AT	AT	BT	AT	AT
ELEV. M,MSL	DMT NO.	DELTA A (BARS)	DILATOMETER READING, BARS (CORRECTED FOR GAGE ZERO)							
+11.96M	13	0.095	1.335	0.965	0.950	1.310	1.240	0.910	1.450	1.405
+ 7.70M	17	0.040	1.095	0.905	0.880	0.950	0.910	0.835	0.915	0.875
+ 5.11M	3	0.130	2.855	2.665	2.650	2.630	2.540	2.405	2.890	2.760
+ 2.21M	4	0.105	2.415	2.065	2.050	2.120	2.100	2.135	2.070	2.070
- 1.30M	19	0.120	3.255	2.935	2.850	2.920	2.830	2.645	2.450	2.450
ELEV. M,MSL	DMT NO.		TOTAL STRESS, KPA							
+11.96M	13		143.0	106.0	104.5	140.5	133.5	100.5	154.5	150.0
+ 7.70M	17		113.5	94.5	92.0	99.0	95.0	87.5	95.5	91.5
+ 5.11M	3		298.5	279.5	278.0	276.0	267.0	253.5	302.0	289.0
+ 2.21M	4		252.0	217.0	215.5	222.5	220.5	224.0	217.5	217.5
- 1.30M	19		337.5	305.5	297.0	304.0	295.0	276.5	257.0	257.0
ELEV. M,MSL	DMT NO.		TOTAL STRESS, KPA EXCLUDING AFTER TEST MEASUREMENTS							
+11.96M	13			106.0	104.5			100.5		
+ 7.70M	17			94.5	92.0			87.5		
+ 5.11M	3			279.5	278.0			253.5		
+ 2.21M	4			217.0	215.5			224.0		
- 1.30M	19			305.5	297.0			276.5		
ELEV. M,MSL	PIEZO. NO.	DMT NO.	EFFECTIVE STRESS, KPA							
+11.96M	PZT 25444 &	DMT 13	39.6	53.6	55.0	53.2	49.3	65.9	NA	NA
+ 7.70M	PZT 25443 &	DMT 17	10.8	12.6	12.7	13.8	11.6	13.3	NA	NA
+ 5.11M	PZT 25440 &	DMT 3	78.7	163.3	164.7	119.2	102.1	154.4	NA	NA
+ 2.21M	PZT 25430 &	DMT 4	41.4	76.7	77.8	54.9	63.2	99.6	NA	NA
- 1.30M	PZT 25433 &	DMT 19	94.6	136.7	130.7	101.4	101.3	126.1	NA	NA
ELEV. M,MSL	PIEZO. NO.	DMT NO.	EFFECTIVE STRESS, KPA EXCLUDING AFTER TEST MEASUREMENTS							
+11.96M	PZT 25444 &	DMT 13		53.6	55.0			65.9		
+ 7.70M	PZT 25443 &	DMT 17		12.6	12.7			13.3		
+ 5.11M	PZT 25440 &	DMT 3		163.3	164.7			154.4		
+ 2.21M	PZT 25430 &	DMT 4		76.7	77.8			99.6		
- 1.30M	PZT 25433 &	DMT 19		136.7	130.7			126.1		

Table H.2 continued

DRIVEN 11:43 03/30/94

DATE, MM/DD/YY			04/15/94	05/10/94	06/03/94	06/03/94	06/03/94	12/20/94	12/20/94	12/20/98
TIME, HH:MM			17:22	11:25	09:45	16:45	17:36	09:35	16:14	20:26
ELAPSED TIME, DAYS			16.24	40.99	64.92	65.21	65.25	264.91	265.19	1726.36
BEFORE/AFTER TEST			AT	BT	BT	AT	AT	BT	AT	BT
ELEV. M,MSL	DMT NO.	DELTA A (BARS)	DILATOMETER READING, BARS (CORRECTED FOR GAGE ZERO)							
+11.96M	13	0.095	1.360	1.150	1.150	1.690	1.670	1.510	1.820	1.830
+ 7.70M	17	0.040	0.850	0.820	0.840	0.880	0.820	0.910	0.960	0.610
+ 5.11M	3	0.130	2.700	2.780	2.890	3.840	3.760	NA	NA	NA
+ 2.21M	4	0.105	2.070	2.070	2.030	1.960	1.970	2.400	2.110	2.260
- 1.30M	19	0.120	2.390	2.600	2.550	2.480	2.440	2.710	2.460	2.800
ELEV. M,MSL	DMT NO.		TOTAL STRESS, KPA							
+11.96M	13		145.5	124.5	124.5	178.5	176.5	160.5	191.5	192.5
+ 7.70M	17		89.0	86.0	88.0	92.0	86.0	95.0	100.0	65.0
+ 5.11M	3		283.0	291.0	302.0	397.0	389.0	NA	NA	NA
+ 2.21M	4		217.5	217.5	213.5	206.5	207.5	250.5	221.5	236.5
- 1.30M	19		251.0	272.0	267.0	260.0	256.0	283.0	258.0	292.0
ELEV. M,MSL	DMT NO.		TOTAL STRESS, KPA EXCLUDING AFTER TEST MEASUREMENTS							
+11.96M	13			124.5	124.5			160.5		192.5
+ 7.70M	17			86.0	88.0			95.0		65.0
+ 5.11M	3			291.0	302.0					
+ 2.21M	4			217.5	213.5			250.5		236.5
- 1.30M	19			272.0	267.0			283.0		292.0
ELEV. M,MSL	PIEZO. NO.	DMT NO.	EFFECTIVE STRESS, KPA							
+11.96M	PZT 25444 &	DMT 13	93.7	92.5	96.0	NA	NA	124.7	158.8	163.8
+ 7.70M	PZT 25443 &	DMT 17	14.0	15.0	22.3	NA	NA	20.5	26.1	-1.1
+ 5.11M	PZT 25440 &	DMT 3	169.5	173.9	158.5	NA	NA	NA	NA	NA
+ 2.21M	PZT 25430 &	DMT 4	90.7	96.0	96.3	NA	NA	125.0	89.7	118.9
- 1.30M	PZT 25433 &	DMT 19	107.3	122.2	120.2	NA	NA	126.5	239.9	142.6
ELEV. M,MSL	PIEZO. NO.	DMT NO.	EFFECTIVE STRESS, KPA EXCLUDING AFTER TEST MEASUREMENTS							
+11.96M	PZT 25444 &	DMT 13		92.5	96.0			124.7		163.8
+ 7.70M	PZT 25443 &	DMT 17		15.0	22.3			20.5		-1.1
+ 5.11M	PZT 25440 &	DMT 3		173.9	158.5					
+ 2.21M	PZT 25430 &	DMT 4		96.0	96.3			125.0		118.9
- 1.30M	PZT 25433 &	DMT 19		122.2	120.2			126.5		142.6

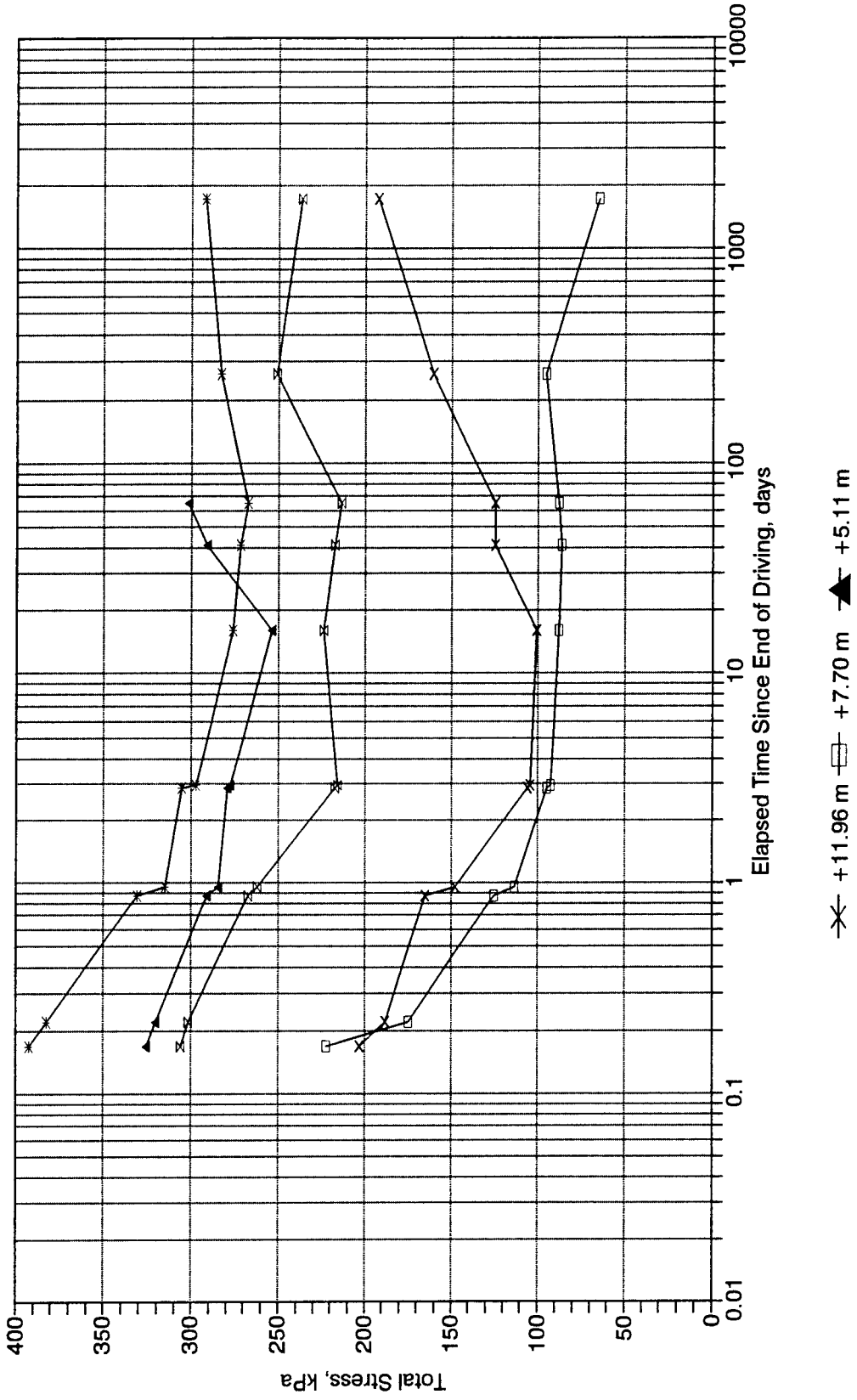

Figure H.3 Total Stress (AUC)

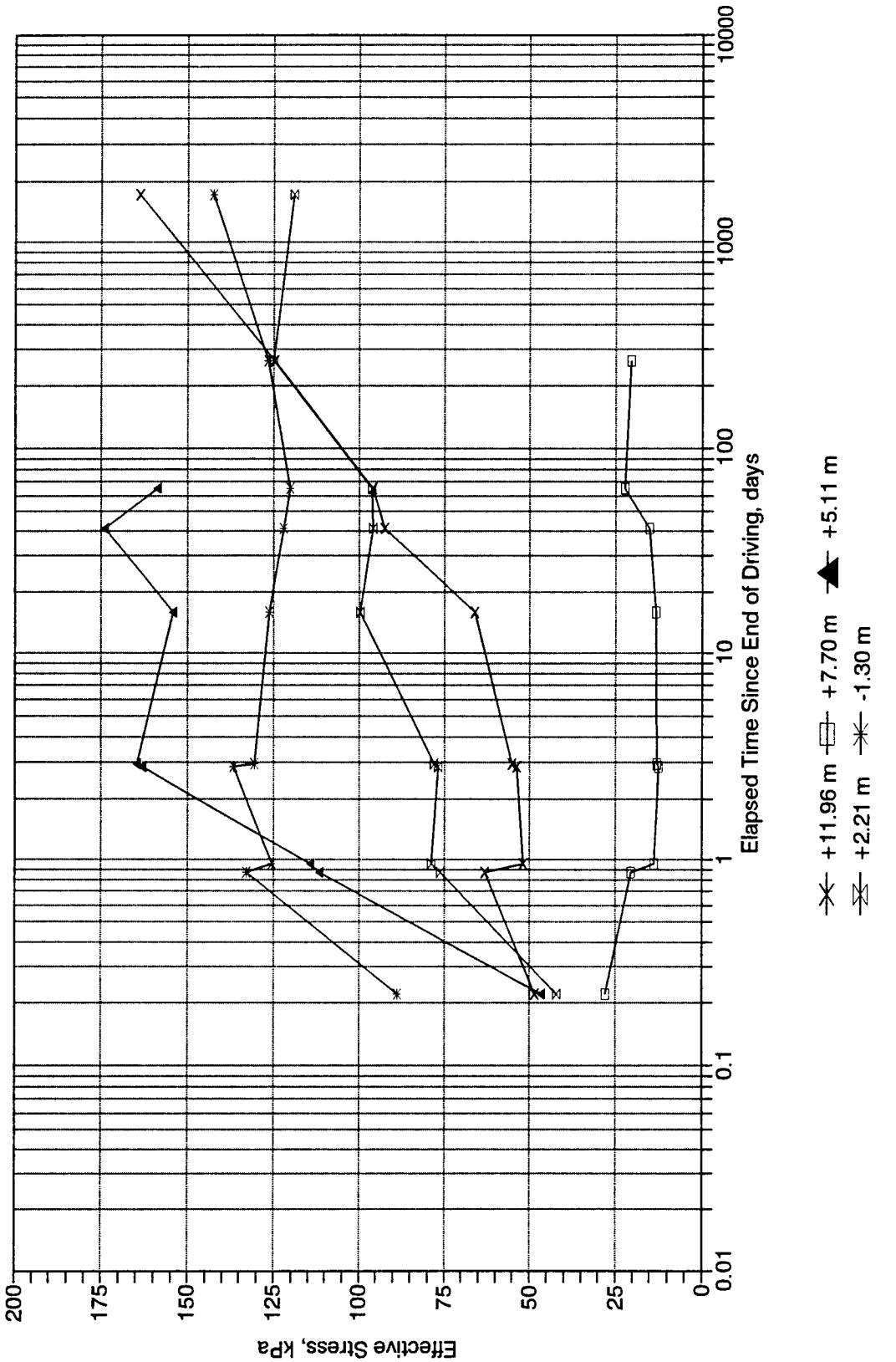

Figure H.4 Effective Stress (AUC)

Table H.3 Total and Effective Stresses (VLE)

DRIVEN 13:04 04/14/94

DATE, MM/DD/YY			04/14/94	04/14/94	04/14/94	04/14/94	04/14/94	04/15/94	04/15/94
TIME, HH:MM			13:18	13:50	14:37	18:45	20:05	00:30	07:03
ELAPSED TIME, DAYS			0.010	0.03	0.06	0.24	0.29	0.48	0.75
BEFORE/AFTER TEST			BT	BT	BT	BT	BT	AT	AT
ELEV. M,MSL	DMT NO.	DELTA A (BARS)	DILATOMETER READING, BARS (CORRECTED FOR GAGE ZERO)						
-3.04M	9	0.110	0.350	NA	0.340	0.345	0.340	0.585	0.555
-4.94M	16	0.160	0.890	NA	0.910	0.930	0.910	0.760	0.745
-7.53M	11	0.120	1.390	NA	1.430	1.380	1.360	4.210	4.180
ELEV. M,MSL	DMT NO.		TOTAL STRESS, KPA						
-3.04M	9		46.0	NA	45.0	45.5	45.0	69.5	66.5
-4.94M	16		105.0	NA	107.0	109.0	107.0	92.0	90.5
-7.53M	11		151.0	NA	155.0	150.0	148.0	433.0	430.0
ELEV. M,MSL	DMT NO.		TOTAL STRESS, KPA EXCLUDING AFTER TEST MEASUREMENTS						
-3.04M	9		46.0		45.0	45.5	45.0		
-4.94M	16		105.0		107.0	109.0	107.0		
-7.53M	11		151.0		155.0	150.0	148.0		
ELEV. M,MSL	PIEZO. NO.	DMT NO.	EFFECTIVE STRESS, KPA						
-3.04M	PZT 25436 & DMT 9		9.7	NA	9.3	10.6	10.0	NA	29.5
-4.94M	PZT 25437 & DMT 16		49.0	NA	51.8	54.3	52.3	NA	34.1
-7.53M	PZT 25448 & DMT 11		71.5	NA	75.2	71.6	69.6	NA	349.6
ELEV. M,MSL	PIEZO. NO.	DMT NO.	EFFECTIVE STRESS, KPA EXCLUDING AFTER TEST MEASUREMENTS						
-3.04M	PZT 25436 & DMT 9		9.7		9.3	10.6	10.0		
-4.94M	PZT 25437 & DMT 16		49.0		51.8	54.3	52.3		
-7.53M	PZT 25448 & DMT 11		71.5		75.2	71.6	69.6		

Table H.3 continued

DRIVEN 13:04 04/14/94

DATE, MM/DD/YY			04/16/94	04/18/94	04/18/94	04/30/94	04/30/94	05/12/94	06/30/94	06/30/94
TIME, HH:MM			15:43	08:16	14:37	08:35	13:35	13:45	11:40	14:51
ELAPSED TIME, DAYS			2.11	3.80	4.06	15.81	16.02	28.03	76.94	77.07
BEFORE/AFTER TEST			BT	BT	AT	BT	AT	BT	BT	AT
ELEV. M,MSL	DMT NO.	DELTA A (BARS)	DILATOMETER READING, BARS (CORRECTED FOR GAGE ZERO)							
-3.04M	9	0.110	0.580	0.545	0.530	0.580	0.520	0.580	0.655	0.605
-4.94M	16	0.160	0.765	0.710	0.880	0.950	0.860	0.965	1.060	1.060
-7.53M	11	0.120	3.940	4.050	4.200	4.030	4.340	4.510	3.820	3.750
ELEV. M,MSL	DMT NO.		TOTAL STRESS, KPA							
-3.04M	9		69.0	65.5	64.0	69.0	63.0	69.0	76.5	71.5
-4.94M	16		92.5	87.0	104.0	111.0	102.0	112.5	122.0	122.0
-7.53M	11		406.0	417.0	432.0	415.0	446.0	463.0	394.0	387.0
ELEV. M,MSL	DMT NO.		TOTAL STRESS, KPA EXCLUDING AFTER TEST MEASUREMENTS							
-3.04M	9		69.0	65.5		69.0		69.0	76.5	
-4.94M	16		92.5	87.0		111.0		112.5	122.0	
-7.53M	11		406.0	417.0		415.0		463.0	394.0	
ELEV. M,MSL	PIEZO. NO.	DMT NO.	EFFECTIVE STRESS, KPA							
-3.04M	PZT 25436 &	DMT 9	32.9	29.2	27.9	33.3	27.1	32.9	40.7	NA
-4.94M	PZT 25437 &	DMT 16	36.4	30.6	47.8	55.6	46.3	57.3	63.8	NA
-7.53M	PZT 25448 &	DMT 11	325.9	336.8	351.9	334.4	365.4	376.1	287.3	NA
ELEV. M,MSL	PIEZO. NO.	DMT NO.	EFFECTIVE STRESS, KPA EXCLUDING AFTER TEST MEASUREMENTS							
-3.04M	PZT 25436 &	DMT 9	32.9	29.2		33.3		32.9	40.7	
-4.94M	PZT 25437 &	DMT 16	36.4	30.6		55.6		57.3	63.8	
-7.53M	PZT 25448 &	DMT 11	325.9	336.8		334.4		376.1	287.3	

Table H.3 continued

DRIVEN 13:04 04/14/94

DATE, MM/DD/YY	12/15/94
TIME, HH:MM	18:00
ELAPSED TIME, DAYS	245.21
BEFORE/AFTER TEST	BT

ELEV. M,MSL	DMT NO.	DELTA A (BARS)	DILATOMETER READING, BARS (CORRECTED FOR GAGE ZERO)
-3.04M	9	0.110	0.710
-4.94M	16	0.160	NA
-7.53M	11	0.120	3.610

ELEV. M,MSL	DMT NO.	TOTAL STRESS, KPA
-3.04M	9	82.0
-4.94M	16	NA
-7.53M	11	373.0

ELEV. M,MSL	DMT NO.	TOTAL STRESS, KPA EXCLUDING AFTER TEST MEASUREMENTS
-3.04M	9	82.0
-4.94M	16	
-7.53M	11	373.0

ELEV. M,MSL	PIEZO. NO.	DMT NO.	EFFECTIVE STRESS, KPA
-3.04M	PZT 25436 &	DMT 9	44.2
-4.94M	PZT 25437 &	DMT 16	NA
-7.53M	PZT 25448 &	DMT 11	292.4

ELEV. M,MSL	PIEZO. NO.	DMT NO.	EFFECTIVE STRESS, KPA EXCLUDING AFTER TEST MEASUREMENTS
-3.04M	PZT 25436 &	DMT 9	44.2
-4.94M	PZT 25437 &	DMT 16	
-7.53M	PZT 25448 &	DMT 11	292.4

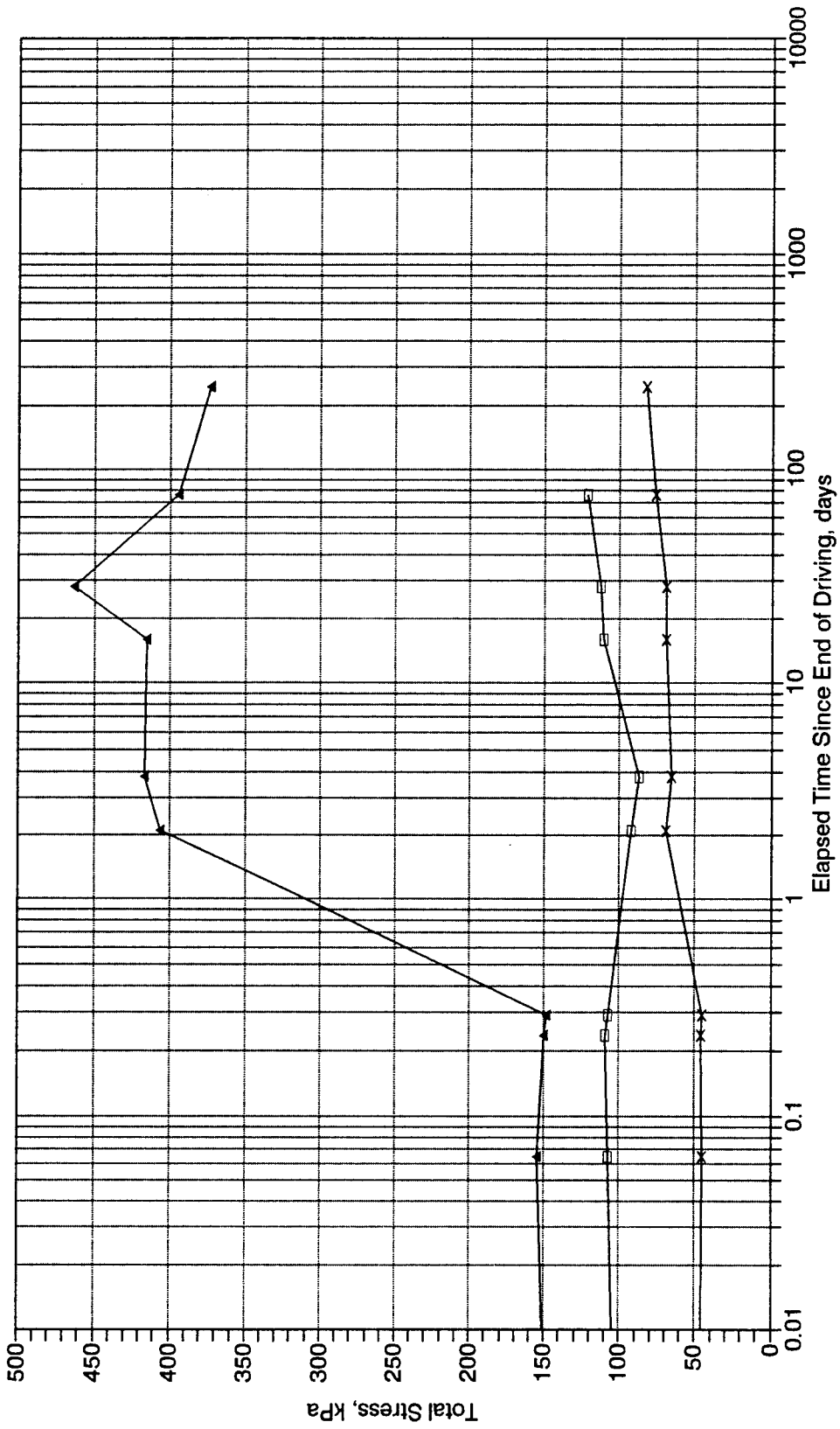

Figure H.5 Total Stress (VLE)

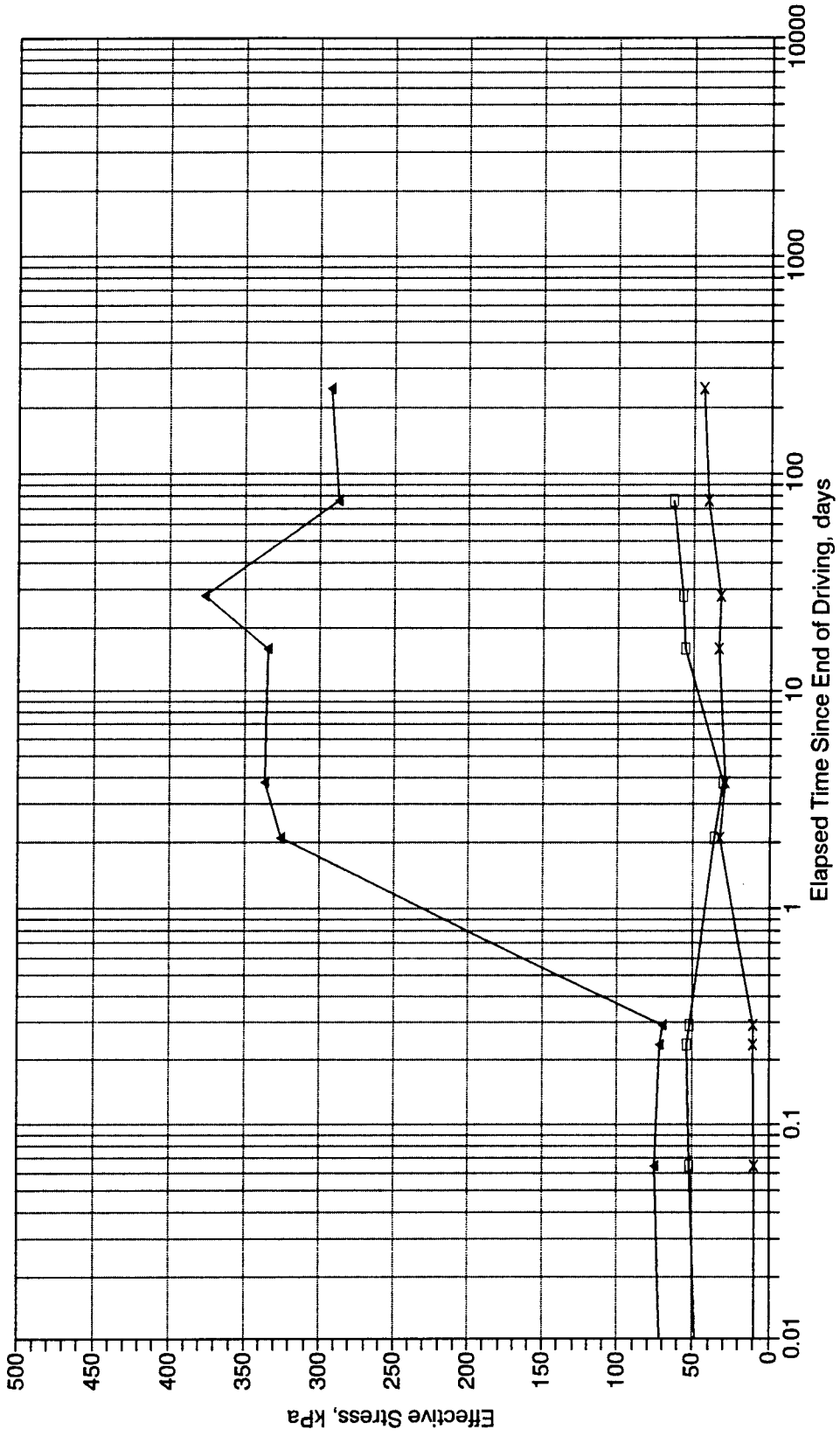

Figure H.6 Effective Stress (VLE)

Table H.4 Total and Effective Stresses (VLW)

DRIVEN 14:52 08/24/94

DATE, MM/DD/YY			08/24/94	08/24/94	08/24/94	08/24/94	08/24/94	08/24/94	08/24/94
TIME, HH:MM			15:50	16:27	17:18	18:24	19:47	20:49	23:14
ELAPSED TIME, DAYS			0.040	0.07	0.10	0.15	0.20	0.25	0.35
BEFORE/AFTER TEST			BT	BT	BT	BT	BT	BT	AT
ELEV. M,MSL	DMT NO.	DELTA A (BARS)	DILATOMETER READING, BARS (CORRECTED FOR GAGE ZERO)						
- 6.50M	1	0.145	NA	0.800	0.700	0.680	0.680	0.690	0.680
- 9.70M	18	0.080	NA	NA	NA	NA	NA	NA	NA
-12.29M	6	0.120	3.650	3.500	3.440	3.330	3.300	3.270	3.330
-14.88M	7	0.090	3.860	3.720	3.620	3.510	3.410	3.370	3.250
ELEV. M,MSL	DMT NO.		TOTAL STRESS, KPA						
- 6.50M	1		NA	94.5	84.5	82.5	82.5	83.5	82.5
- 9.70M	18		NA	NA	NA	NA	NA	NA	NA
-12.29M	6		377.0	362.0	356.0	345.0	342.0	339.0	345.0
-14.88M	7		395.0	381.0	371.0	360.0	350.0	346.0	334.0
ELEV. M,MSL	DMT NO.		TOTAL STRESS, KPA EXCLUDING AFTER TEST MEASUREMENTS						
- 6.50M	1			94.5	84.5	82.5	82.5	83.5	
- 9.70M	18								
-12.29M	6		377.0	362.0	356.0	345.0	342.0	339.0	
-14.88M	7		395.0	381.0	371.0	360.0	350.0	346.0	
ELEV. M,MSL	PIEZO. NO.	DMT NO.	EFFECTIVE STRESS, KPA						
- 6.50M	PZT 25442	& DMT 1	NA	36.2	27.8	27.6	28.9	30.7	NA
- 9.70M	PZT 25429	& DMT 18	NA	NA	NA	NA	NA	NA	NA
-12.29M	PZT 25441	& DMT 6	84.6	83.0	79.3	71.1	69.6	67.7	56.9
-14.88M	PZT 25438	& DMT 7	35.5	76.0	78.2	81.4	81.6	84.2	61.2
ELEV. M,MSL	PIEZO. NO.	DMT NO.	EFFECTIVE STRESS, KPA EXCLUDING AFTER TEST MEASUREMENTS						
- 6.50M	PZT 25442	& DMT 1		36.2	27.8	27.6	28.9	30.7	
- 9.70M	PZT 25429	& DMT 18							
-12.29M	PZT 25441	& DMT 6	84.6	83.0	79.3	71.1	69.6	67.7	
-14.88M	PZT 25438	& DMT 7	35.5	76.0	78.2	81.4	81.6	84.2	

Table H.4 continued

DRIVEN 14:52 08/24/94

DATE, MM/DD/YY			08/25/94	08/26/94	08/27/94	08/27/94	08/30/94	08/31/94	09/12/94	09/12/94
TIME, HH:MM			10:00	09:34	09:14	13:47	12:13	07:48	10:13	17:50
ELAPSED TIME, DAYS			0.80	1.78	2.77	2.95	5.89	6.71	18.81	19.12
BEFORE/AFTER TEST			BT	BT	BT	AT	BT	BT	BT	AT
ELEV. M,MSL	DMT NO.	DELTA A (BARS)	DILATOMETER READING, BARS (CORRECTED FOR GAGE ZERO)							
- 6.50M	1	0.145	0.690	0.685	0.690	0.690	0.670	0.660	0.720	0.660
- 9.70M	18	0.080	NA	NA	NA	NA	NA	NA	NA	NA
-12.29M	6	0.120	3.110	2.980	2.900	2.840	2.680	2.620	2.370	2.300
-14.88M	7	0.090	3.080	2.830	2.790	2.670	2.810	2.750	2.870	2.480
ELEV. M,MSL	DMT NO.		TOTAL STRESS, KPA							
- 6.50M	1		83.5	83.0	83.5	83.5	81.5	80.5	86.5	80.5
- 9.70M	18		NA	NA	NA	NA	NA	NA	NA	NA
-12.29M	6		323.0	310.0	302.0	296.0	280.0	274.0	249.0	242.0
-14.88M	7		317.0	292.0	288.0	276.0	290.0	284.0	296.0	257.0
ELEV. M,MSL	DMT NO.		TOTAL STRESS, KPA EXCLUDING AFTER TEST MEASUREMENTS							
- 6.50M	1		83.5	83.0	83.5		81.5	80.5	86.5	
- 9.70M	18									
-12.29M	6		323.0	310.0	302.0		280.0	274.0	249.0	
-14.88M	7		317.0	292.0	288.0		290.0	284.0	296.0	
ELEV. M,MSL	PIEZO. NO.	DMT NO.	EFFECTIVE STRESS, KPA							
- 6.50M	PZT 25442 &	DMT 1	35.7	38.7	39.9	25.3	33.9	32.6	37.4	21.3
- 9.70M	PZT 25429 &	DMT 18	NA	NA	NA	NA	NA	NA	NA	NA
-12.29M	PZT 25441 &	DMT 6	55.7	53.5	53.2	38.3	46.6	45.1	60.3	52.5
-14.88M	PZT 25438 &	DMT 7	98.7	97.5	105.4	82.4	122.4	118.3	137.7	96.2
ELEV. M,MSL	PIEZO. NO.	DMT NO.	EFFECTIVE STRESS, KPA EXCLUDING AFTER TEST MEASUREMENTS							
- 6.50M	PZT 25442 &	DMT 1	35.7	38.7	39.9		33.9	32.6	37.4	
- 9.70M	PZT 25429 &	DMT 18								
-12.29M	PZT 25441 &	DMT 6	55.7	53.5	53.2		46.6	45.1	60.3	
-14.88M	PZT 25438 &	DMT 7	98.7	97.5	105.4		122.4	118.3	137.7	

Table H.4 continued

DRIVEN 14:52 08/24/94

DATE, MM/DD/YY			09/12/94	12/14/94	01/28/95	01/28/95	02/02/95
TIME, HH:MM			18:46	19:23	14:30	17:45	18:15
ELAPSED TIME, DAYS			19.16	112.19	156.98	157.12	162.14
BEFORE/AFTER TEST			AT	BT	BT	AT	AT
ELEV. M,MSL	DMT NO.	DELTA A (BARS)	DILATOMETER READING, BARS (CORRECTED FOR GAGE ZERO)				
- 6.50M	1	0.145	0.660	0.875	0.780	0.640	0.680
- 9.70M	18	0.080	NA	NA	NA	NA	NA
-12.29M	6	0.120	2.320	2.015	1.950	1.920	1.890
-14.88M	7	0.090	2.400	2.675	2.560	2.260	2.320
ELEV. M,MSL	DMT NO.		TOTAL STRESS, KPA				
- 6.50M	1		80.5	102.0	92.5	78.5	82.5
- 9.70M	18		NA	NA	NA	NA	NA
-12.29M	6		244.0	213.5	207.0	204.0	201.0
-14.88M	7		249.0	276.5	265.0	235.0	241.0
ELEV. M,MSL	DMT NO.		TOTAL STRESS, KPA EXCLUDING AFTER TEST MEASUREMENTS				
- 6.50M	1			102.0	92.5		
- 9.70M	18						
-12.29M	6			213.5	207.0		
-14.88M	7			276.5	265.0		
ELEV. M,MSL	PIEZO. NO.	DMT NO.	EFFECTIVE STRESS, KPA				
- 6.50M	PZT 25442 &	DMT 1	31.1	51.5	46.9	33.5	39.1
- 9.70M	PZT 25429 &	DMT 18	NA	NA	NA	NA	NA
-12.29M	PZT 25441 &	DMT 6	51.0	55.1	45.9	42.4	37.0
-14.88M	PZT 25438 &	DMT 7	86.2	118.7	112.5	81.5	88.8
ELEV. M,MSL	PIEZO. NO.	DMT NO.	EFFECTIVE STRESS, KPA EXCLUDING AFTER TEST MEASUREMENTS				
- 6.50M	PZT 25442 &	DMT 1		51.5	46.9		
- 9.70M	PZT 25429 &	DMT 18					
-12.29M	PZT 25441 &	DMT 6		55.1	45.9		
-14.88M	PZT 25438 &	DMT 7		118.7	112.5		

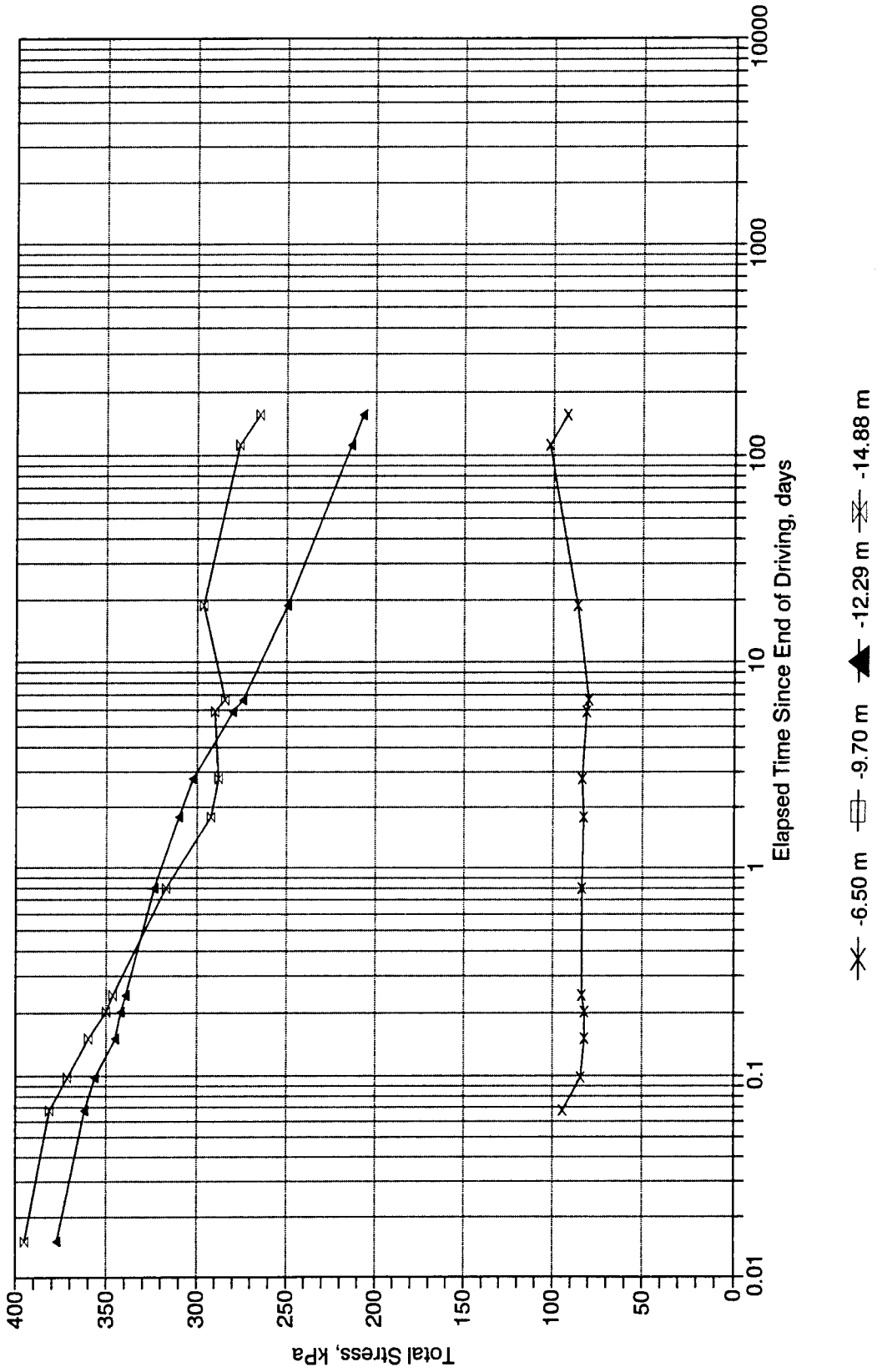

Figure H.7 Total Stress (VLW)

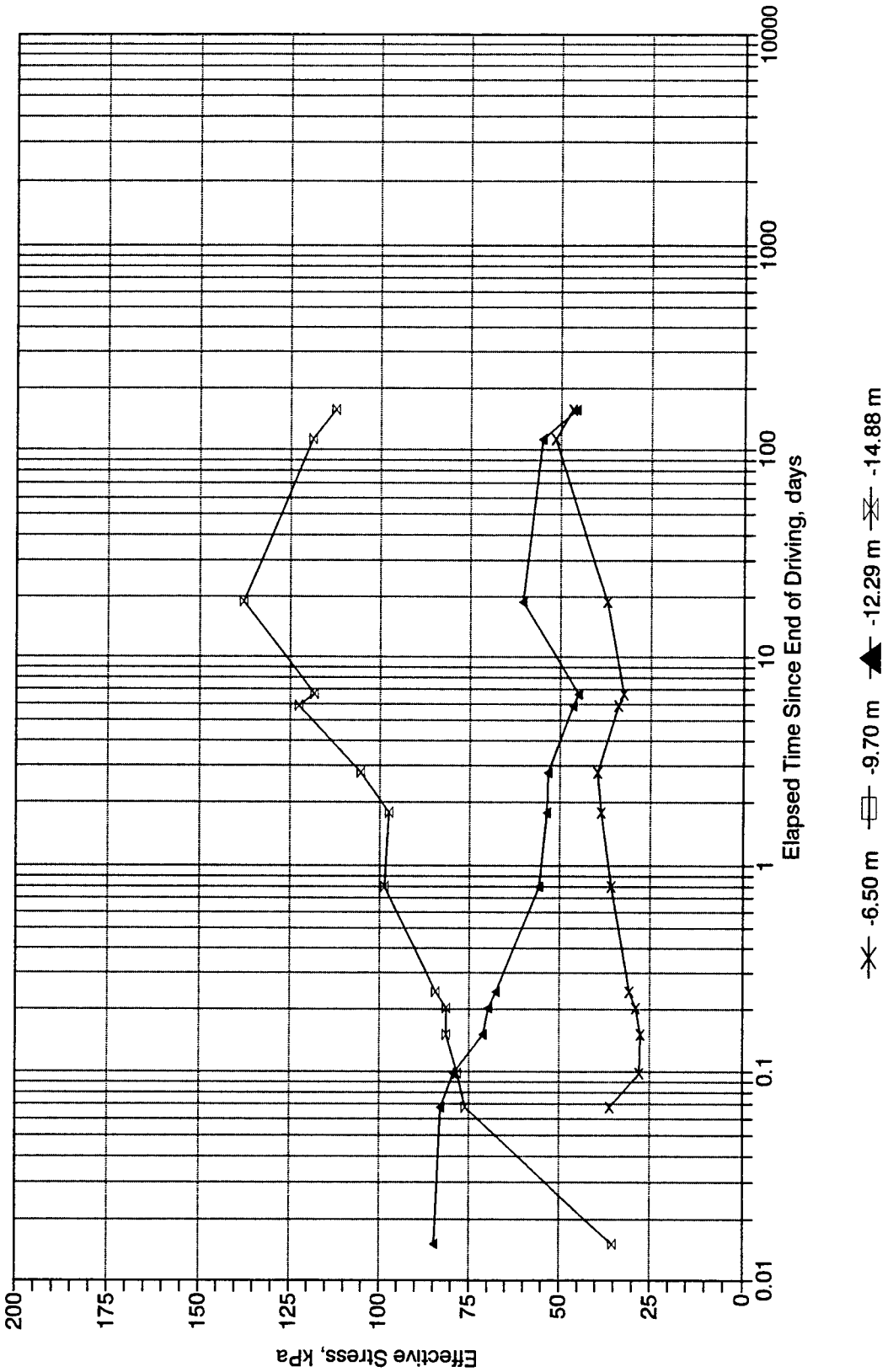

Figure H.8 Effective Stress (VLW)

Table H.5 Total and Effective Stresses (SBZ)

DRIVEN 15:36 01/26/96

DATE, MM/DD/YY			01/26/96	01/26/96	01/26/96	01/26/96	01/26/96	01/26/96	01/26/96
TIME, HH:MM			17:14	18:00	18:30	19:00	19:30	20:00	20:30
ELAPSED TIME, DAYS			0.07	0.10	0.12	0.14	0.16	0.18	0.20
BEFORE/AFTER TEST			BT	BT	BT	BT	BT	BT	BT
ELEV. M,MSL	DMT NO.	DELTA A (BARS)	DILATOMETER READING, BARS (CORRECTED FOR GAGE ZERO)						
- 7.74M	2	0.210	1.320	0.910	0.890	0.820	0.880	0.920	0.880
-12.61M	5	0.215	1.780	1.620	1.690	1.660	1.680	1.590	1.580
-15.89M	8	0.240	4.780	4.680	4.320	4.330	4.280	4.160	4.080
-19.24M	20	0.200	7.520	7.180	6.680	6.780	6.620	6.480	6.380
ELEV. M,MSL	DMT NO.		TOTAL STRESS, KPA						
- 7.74M	2		153.0	112.0	110.0	103.0	109.0	113.0	109.0
-12.61M	5		199.5	183.5	190.5	187.5	189.5	180.5	179.5
-15.89M	8		502.0	492.0	456.0	457.0	452.0	440.0	432.0
-19.24M	20		772.0	738.0	688.0	698.0	682.0	668.0	658.0
ELEV. M,MSL	DMT NO.		TOTAL STRESS, KPA EXCLUDING AFTER TEST MEASUREMENTS						
- 7.74M	2		153.0	112.0	110.0	103.0	109.0	113.0	109.0
-12.61M	5		199.5	183.5	190.5	187.5	189.5	180.5	179.5
-15.89M	8		502.0	492.0	456.0	457.0	452.0	440.0	432.0
-19.24M	20		772.0	738.0	688.0	698.0	682.0	668.0	658.0
ELEV. M,MSL	PIEZO. NO.	DMT NO.	EFFECTIVE STRESS, KPA						
- 7.74M	PZT 25446	& DMT 2	72.2	31.3	29.5	22.6	28.7	32.8	29.0
-12.61M	PZT 25435	& DMT 5	70.8	55.1	62.3	59.5	61.6	52.7	51.8
-15.89M	PZT 25432	& DMT 8	47.8	63.3	42.5	58.0	66.5	67.1	70.6
-19.24M	PZT 25439	& DMT 20	96.1	112.9	85.2	115.8	118.1	121.3	127.2
ELEV. M,MSL	PIEZO. NO.	DMT NO.	EFFECTIVE STRESS, KPA EXCLUDING AFTER TEST MEASUREMENTS						
- 7.74M	PZT 25446	& DMT 2	72.2	31.3	29.5	22.6	28.7	32.8	29.0
-12.61M	PZT 25435	& DMT 5	70.8	55.1	62.3	59.5	61.6	52.7	51.8
-15.89M	PZT 25432	& DMT 8	47.8	63.3	42.5	58.0	66.5	67.1	70.6
-19.24M	PZT 25439	& DMT 20	96.1	112.9	85.2	115.8	118.1	121.3	127.2

Table H.5 continued

DRIVEN 15:36 01/26/96

DATE, MM/DD/YY			01/26/96	01/26/96	01/26/96	01/26/96	01/27/96	01/28/96	01/30/96	01/30/96
TIME, HH:MM			21:00	21:30	22:00	22:30	11:35	11:34	09:50	14:44
ELAPSED TIME, DAYS			0.23	0.25	0.27	0.29	0.83	1.83	3.76	3.96
BEFORE/AFTER TEST			BT	BT	BT	BT	BT	BT	BT	BT
ELEV. M,MSL	DMT NO.	DELTA A (BARS)	DILATOMETER READING, BARS (CORRECTED FOR GAGE ZERO)							
- 7.74M	2	0.210	0.830	0.820	0.860	0.880	0.850	0.800	0.970	0.820
-12.61M	5	0.215	1.500	1.420	1.610	1.520	1.580	1.520	1.500	1.510
-15.89M	8	0.240	3.980	3.910	3.850	3.810	3.220	3.070	2.920	2.990
-19.24M	20	0.200	6.280	6.120	6.040	5.920	4.890	4.440	4.230	4.260
ELEV. M,MSL	DMT NO.		TOTAL STRESS, KPA							
- 7.74M	2		104.0	103.0	107.0	109.0	106.0	101.0	118.0	103.0
-12.61M	5		171.5	163.5	182.5	173.5	179.5	173.5	171.5	172.5
-15.89M	8		422.0	415.0	409.0	405.0	346.0	331.0	316.0	323.0
-19.24M	20		648.0	632.0	624.0	612.0	509.0	464.0	443.0	446.0
ELEV. M,MSL	DMT NO.		TOTAL STRESS, KPA EXCLUDING AFTER TEST MEASUREMENTS							
- 7.74M	2		104.0	103.0	107.0	109.0	106.0	101.0	118.0	103.0
-12.61M	5		171.5	163.5	182.5	173.5	179.5	173.5	171.5	172.5
-15.89M	8		422.0	415.0	409.0	405.0	346.0	331.0	316.0	323.0
-19.24M	20		648.0	632.0	624.0	612.0	509.0	464.0	443.0	446.0
ELEV. M,MSL	PIEZO. NO.	DMT NO.	EFFECTIVE STRESS, KPA							
- 7.74M	PZT 25446	& DMT 2	24.1	23.3	27.4	29.5	27.4	23.1	39.6	25.4
-12.61M	PZT 25435	& DMT 5	44.0	36.2	55.3	46.4	52.9	47.4	45.2	47.2
-15.89M	PZT 25432	& DMT 8	71.2	73.9	76.9	81.2	129.8	156.2	156.1	164.6
-19.24M	PZT 25439	& DMT 20	131.8	129.0	133.2	132.9	173.6	203.2	221.5	226.6
ELEV. M,MSL	PIEZO. NO.	DMT NO.	EFFECTIVE STRESS, KPA EXCLUDING AFTER TEST MEASUREMENTS							
- 7.74M	PZT 25446	& DMT 2	24.1	23.3	27.4	29.5	27.4	23.1	39.6	25.4
-12.61M	PZT 25435	& DMT 5	44.0	36.2	55.3	46.4	52.9	47.4	45.2	47.2
-15.89M	PZT 25432	& DMT 8	71.2	73.9	76.9	81.2	129.8	156.2	156.1	164.6
-19.24M	PZT 25439	& DMT 20	131.8	129.0	133.2	132.9	173.6	203.2	221.5	226.6

Table H.5 continued

DRIVEN 15:36 01/26/96

DATE, MM/DD/YY			01/30/96	02/01/96	02/06/96	02/13/96	02/13/96	03/06/96	04/05/96	04/05/96
TIME, HH:MM			19:09	18:11	08:30	12:15	18:27	13:32	10:36	16:51
ELAPSED TIME, DAYS			4.15	6.11	10.70	17.86	18.12	39.91	69.79	70.05
BEFORE/AFTER TEST			AT	BT	BT	BT	AT	BT	BT	AT
ELEV. M,MSL	DMT NO.	DELTA A (BARS)	DILATOMETER READING, BARS (CORRECTED FOR GAGE ZERO)							
- 7.74M	2	0.210	0.870	0.870	0.785	0.805	0.805	0.880	0.840	0.830
-12.61M	5	0.215	1.520	1.500	1.390	1.480	1.470	1.490	1.520	1.500
-15.89M	8	0.240	2.950	2.960	2.980	3.020	2.820	3.020	2.860	2.780
-19.24M	20	0.200	4.300	4.050	4.040	4.020	3.910	3.920	3.980	3.820
ELEV. M,MSL	DMT NO.		TOTAL STRESS, KPA							
- 7.74M	2		108.0	108.0	99.5	101.5	101.5	109.0	105.0	104.0
-12.61M	5		173.5	171.5	160.5	169.5	168.5	170.5	173.5	171.5
-15.89M	8		319.0	320.0	322.0	326.0	306.0	326.0	310.0	302.0
-19.24M	20		450.0	425.0	424.0	422.0	411.0	412.0	418.0	402.0
ELEV. M,MSL	DMT NO.		TOTAL STRESS, KPA EXCLUDING AFTER TEST MEASUREMENTS							
- 7.74M	2			108.0	99.5	101.5		109.0	105.0	
-12.61M	5			171.5	160.5	169.5		170.5	173.5	
-15.89M	8			320.0	322.0	326.0		326.0	310.0	
-19.24M	20			425.0	424.0	422.0		412.0	418.0	
ELEV. M,MSL	PIEZO. NO.	DMT NO.	EFFECTIVE STRESS, KPA							
- 7.74M	PZT 25446 &	DMT 2	30.1	30.6	20.0	21.9	21.7	27.4	26.3	26.1
-12.61M	PZT 25435 &	DMT 5	47.6	44.3	30.3	41.9	41.4	46.0	49.2	49.3
-15.89M	PZT 25432 &	DMT 8	112.4	165.0	166.8	173.0	132.8	172.2	154.5	144.1
-19.24M	PZT 25439 &	DMT 20	173.8	217.1	224.3	227.4	181.3	222.3	227.5	210.0
ELEV. M,MSL	PIEZO. NO.	DMT NO.	EFFECTIVE STRESS, KPA EXCLUDING AFTER TEST MEASUREMENTS							
- 7.74M	PZT 25446 &	DMT 2		30.6	20.0	21.9		27.4	26.3	
-12.61M	PZT 25435 &	DMT 5		44.3	30.3	41.9		46.0	49.2	
-15.89M	PZT 25432 &	DMT 8		165.0	166.8	173.0		172.2	154.5	
-19.24M	PZT 25439 &	DMT 20		217.1	224.3	227.4		222.3	227.5	

Table H.5 continued

DRIVEN 15:36 01/26/96

DATE, MM/DD/YY			05/17/96	11/14/96	11/14/96	03/26/97	12/18/98
TIME, HH:MM			15:37	09:42	17:12	13:02	18:30
ELAPSED TIME, DAYS			112.00	292.75	293.07	424.89	1057.12
BEFORE/AFTER TEST			BT	BT	AT	BT	BT
ELEV. M,MSL	DMT NO.	DELTA A (BARS)	DILATOMETER READING, BARS (CORRECTED FOR GAGE ZERO)				
- 7.74M	2	0.210	0.890	0.895	0.905	0.950	0.930
-12.61M	5	0.215	1.470	NA	NA	NA	NA
-15.89M	8	0.240	2.880	2.970	2.690	2.870	2.880
-19.24M	20	0.200	3.880	3.950	3.890	4.370	3.990
ELEV. M,MSL	DMT NO.		TOTAL STRESS, KPA				
- 7.74M	2		110.0	110.5	111.5	116.0	114.0
-12.61M	5		168.5	NA	NA	NA	NA
-15.89M	8		312.0	321.0	293.0	311.0	312.0
-19.24M	20		408.0	415.0	409.0	457.0	419.0
ELEV. M,MSL	DMT NO.		TOTAL STRESS, KPA EXCLUDING AFTER TEST MEASUREMENTS				
- 7.74M	2		110.0	110.5		116.0	114.0
-12.61M	5		168.5				
-15.89M	8		312.0	321.0		311.0	312.0
-19.24M	20		408.0	415.0		457.0	419.0
ELEV. M,MSL	PIEZO. NO.	DMT NO.	EFFECTIVE STRESS, KPA				
- 7.74M	PZT 25446	& DMT 2	33.5	35.2	34.3	44.2	47.7
-12.61M	PZT 25435	& DMT 5	44.2	NA	NA	NA	NA
-15.89M	PZT 25432	& DMT 8	151.6	149.8	121.8	149.8	160.0
-19.24M	PZT 25439	& DMT 20	222.4	227.8	213.6	270.3	232.4
ELEV. M,MSL	PIEZO. NO.	DMT NO.	EFFECTIVE STRESS, KPA EXCLUDING AFTER TEST MEASUREMENTS				
- 7.74M	PZT 25446	& DMT 2	33.5	35.2		44.2	47.7
-12.61M	PZT 25435	& DMT 5	44.2				
-15.89M	PZT 25432	& DMT 8	151.6	149.8		149.8	160.0
-19.24M	PZT 25439	& DMT 20	222.4	227.8		270.3	232.4

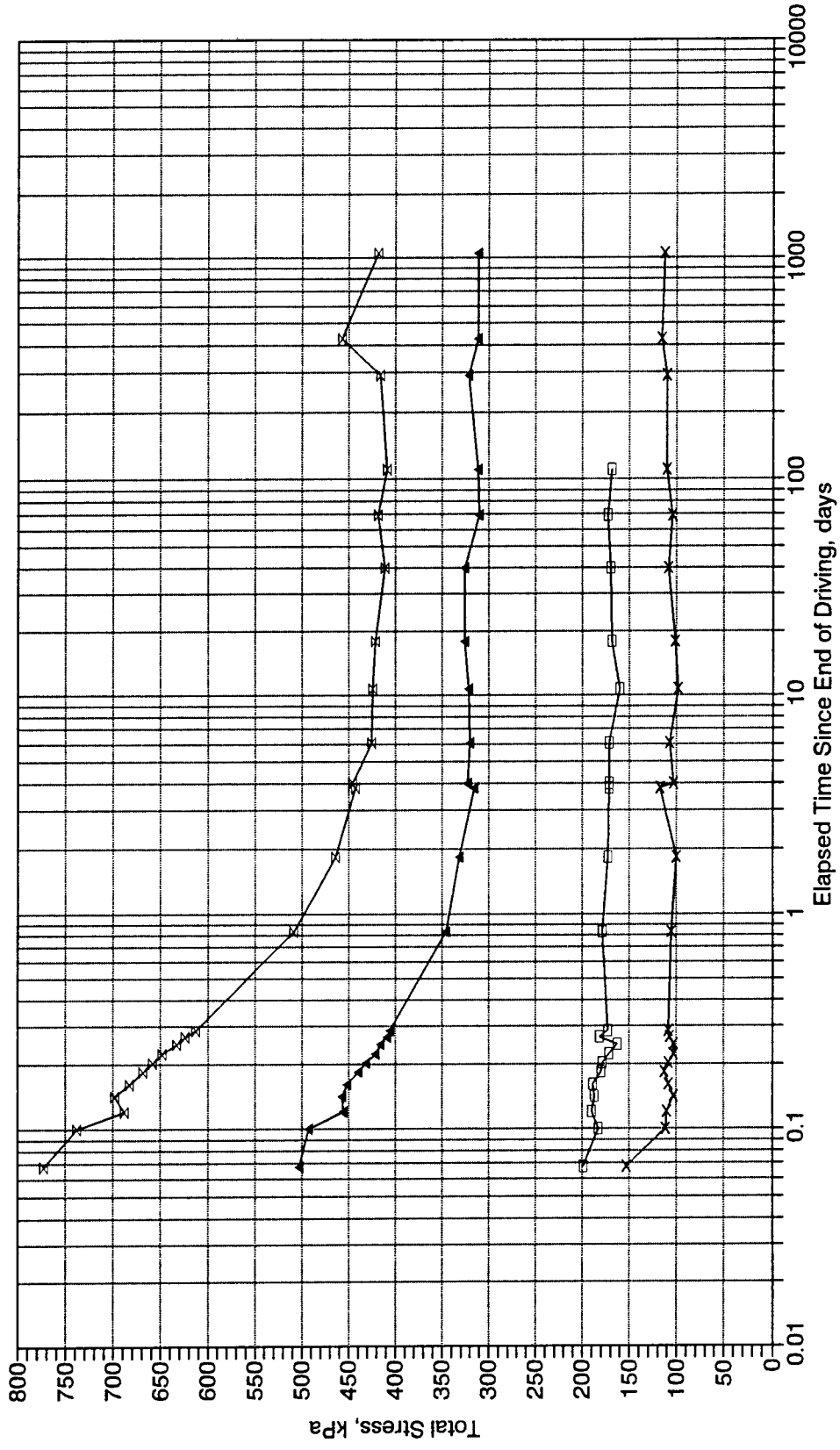

Figure H.9 Total Stress (SBZ)

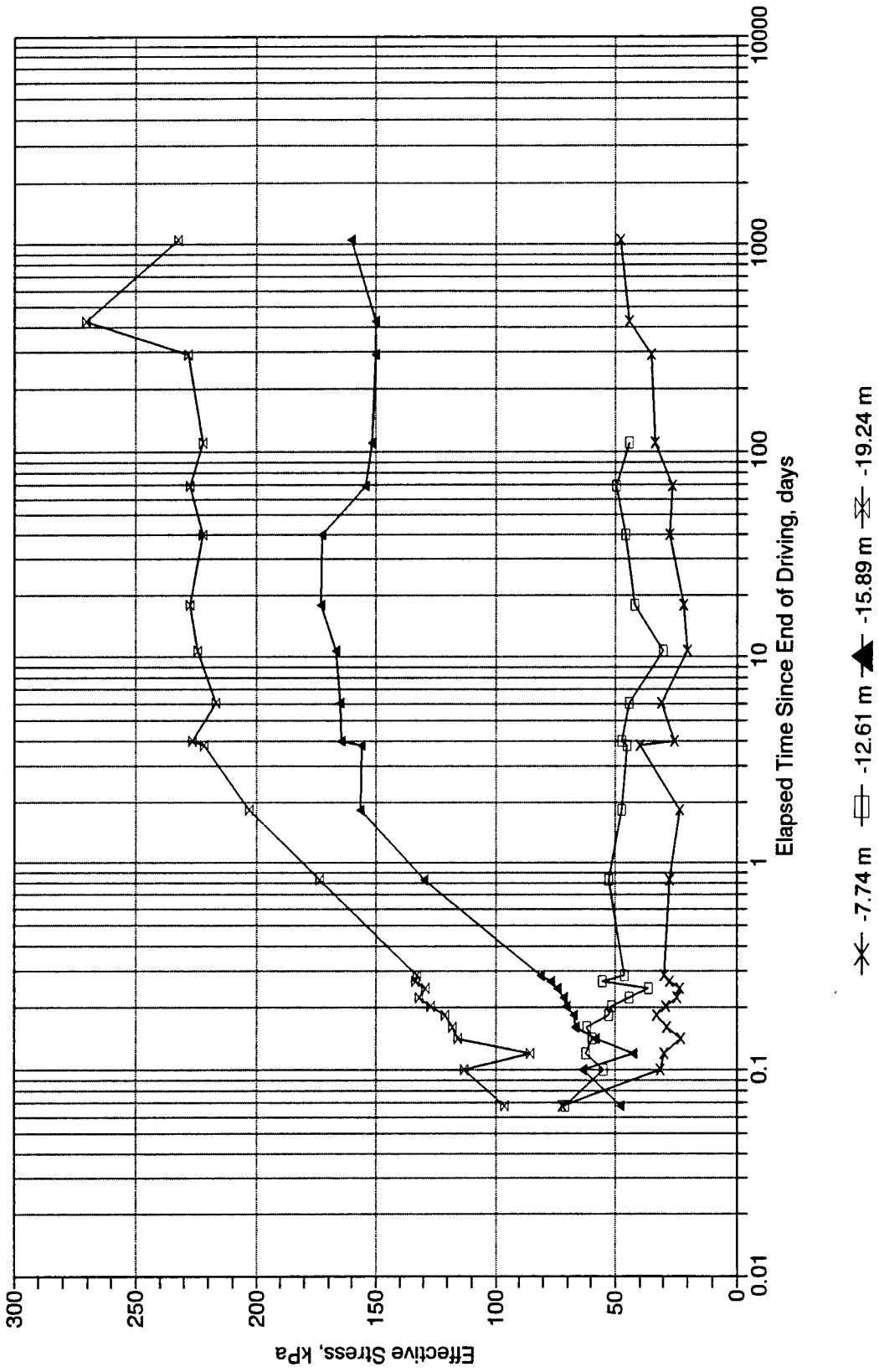

Figure H.10 Effective Stress (SBZ)

APPENDIX I
CONE PENETROMETER FREEZE MEASUREMENTS

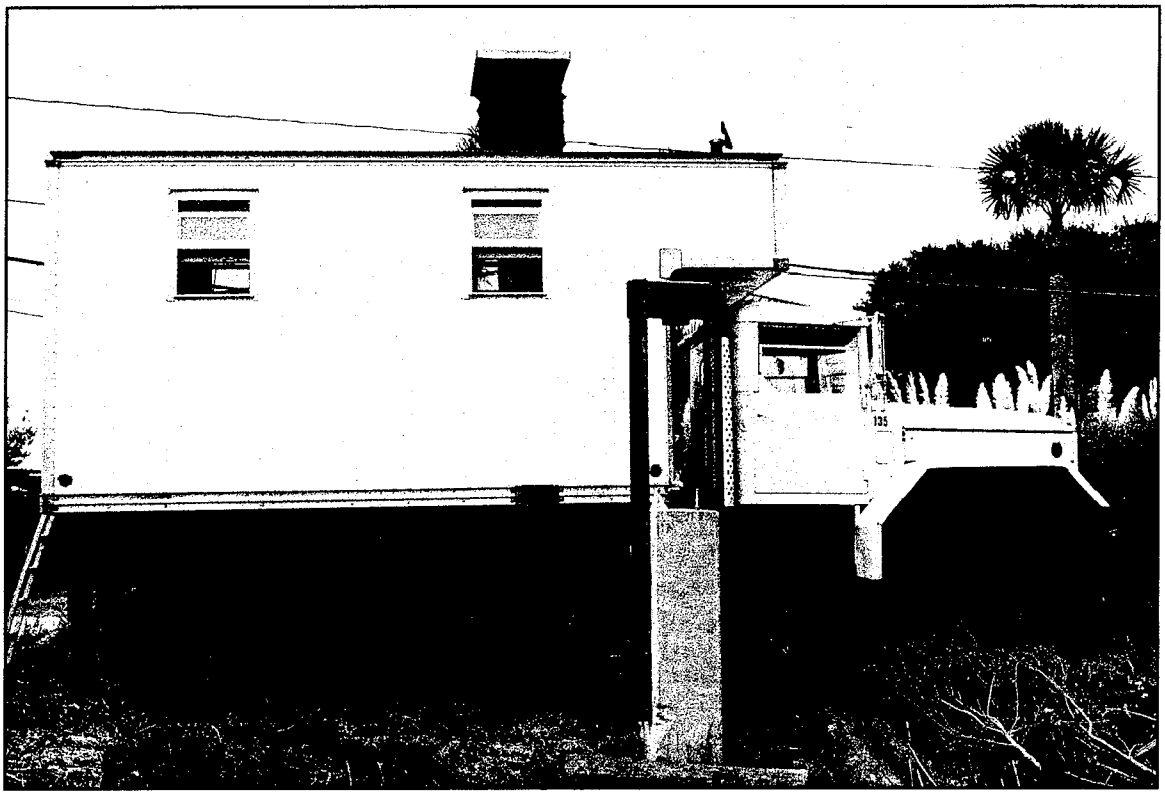

Figure I.1 UF Cone Truck at Vilano West Site

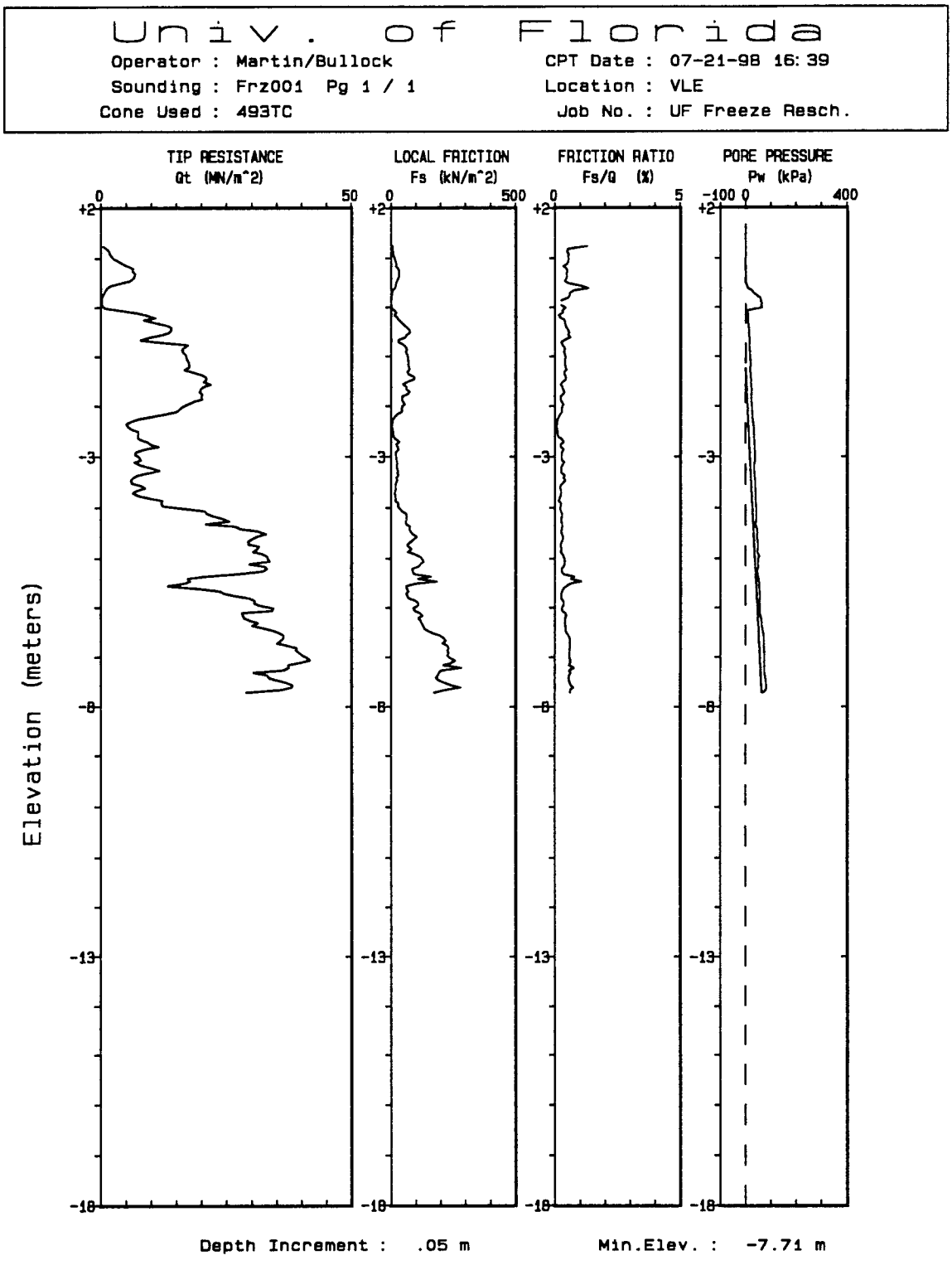

Figure I.2 CPT Sounding Profile at FRZ001

Table I.1 CPT Sounding FRZ001

SOUNDING DATA IN FILE Frz001 07-21-98 16:39

OPERATOR : Martin/Bullock LOCATION : VLE

CONE ID : 493TC JOB No. : UF Freeze Resch.

University of Florida
Geotechnical Engineering

DEPTH m	ELEV m	TIP Qc MPa	COR TIP Qt MPa	FRICTION Fs kPa	FR RATIO Fs/Qc %	PORE PR Pw kPa	PP RATIO Pw/Qc %	DPP RATIO Pw-Ph/Qc %	INC I deg	TEMP T degC	INTERPRETED SOIL TYPE	N SPT
0.05	1.24	0.53	0.53	6.8	1.28	-0.3	-0.06	-0.06	0.19	32.44	?	?
0.10	1.19	1.25	1.25	6.5	0.52	-0.3	-0.02	-0.02	0.02	32.41	sandy silt to clayey silt	5
0.15	1.14	1.75	1.75	8.4	0.48	-0.3	-0.02	-0.02	0.02	32.41	sandy silt to clayey silt	6
0.20	1.09	1.73	1.73	9.4	0.54	-0.3	-0.02	-0.02	0.02	32.38	sandy silt to clayey silt	8
0.25	1.04	2.16	2.16	11.1	0.51	-0.3	-0.01	-0.01	0.02	32.29	silty sand to sandy silt	7
0.30	0.99	2.63	2.63	14.3	0.54	-0.4	-0.02	-0.02	0.02	32.32	silty sand to sandy silt	9
0.35	0.94	3.40	3.40	17.6	0.52	-1.1	-0.03	-0.03	0.02	32.26	silty sand to sandy silt	11
0.40	0.89	4.31	4.31	22.0	0.51	-1.4	-0.03	-0.03	0.02	32.26	sand to silty sand	11
0.45	0.84	5.43	5.43	18.5	0.34	-2.5	-0.05	-0.05	0.02	32.14	sand to silty sand	13
0.50	0.79	6.43	6.43	28.0	0.44	-2.7	-0.04	-0.04	0.02	32.08	sand to silty sand	15
0.55	0.74	6.26	6.26	31.9	0.51	-0.6	-0.01	-0.01	0.02	30.61	sand to silty sand	16
0.60	0.69	6.82	6.82	31.2	0.46	-0.3	-0.00	-0.00	0.02	30.67	sand to silty sand	17
0.65	0.64	6.74	6.74	32.4	0.48	0.0	0.00	0.00	0.02	30.70	sand to silty sand	17
0.70	0.59	6.47	6.47	29.9	0.46	-0.3	-0.00	-0.00	0.02	30.70	sand to silty sand	16
0.75	0.54	5.75	5.75	22.7	0.39	-2.4	-0.04	-0.04	0.02	30.61	sand to silty sand	14
0.80	0.49	3.98	3.98	20.2	0.51	1.3	0.03	0.03	0.02	30.61	silty sand to sandy silt	13
0.85	0.44	1.97	1.97	20.2	1.03	4.3	0.22	0.22	0.02	30.58	silty sand to sandy silt	8
0.90	0.39	1.19	1.19	15.7	1.32	8.6	0.72	0.72	0.02	30.61	sandy silt to clayey silt	6
0.95	0.34	0.99	0.99	7.4	0.75	24.3	2.45	2.45	0.02	30.61	clayey silt to silty clay	5
1.00	0.29	0.65	0.66	3.9	0.60	31.3	4.82	4.82	0.02	30.61	sensitive fine grained	3
1.05	0.24	0.34	0.35	2.0	0.59	44.6	13.12	13.12	0.02	30.61	sensitive fine grained	2
1.10	0.19	0.20	0.21	1.1	0.55	57.9	28.95	28.95	0.02	30.61	sensitive fine grained	1
1.15	0.14	0.20	0.21	0.5	0.25	60.3	30.15	30.15	0.02	30.61	sensitive fine grained	1
1.20	0.09	0.25	0.26	0.0	0.00	62.6	25.04	25.04	0.02	30.61	sensitive fine grained	1
1.25	0.04	0.26	0.27	0.7	0.27	61.3	23.58	23.58	0.02	30.46	sensitive fine grained	2
1.30	-0.01	0.77	0.78	3.2	0.42	62.6	8.13	8.12	0.02	30.49	silty sand to sandy silt	6
1.35	-0.06	4.19	4.19	12.0	0.29	8.7	0.21	0.19	0.02	30.40	sand to silty sand	10
1.40	-0.11	7.15	7.15	22.0	0.31	9.1	0.13	0.11	0.02	30.24	sand to silty sand	17
1.45	-0.16	9.21	9.21	12.4	0.13	10.1	0.11	0.09	0.02	30.12	sand	18
1.50	-0.21	10.82	10.82	24.5	0.23	10.8	0.10	0.08	0.02	30.12	sand	19
1.55	-0.26	8.67	8.67	32.1	0.37	9.1	0.10	0.08	0.02	28.47	sand	20
1.60	-0.31	10.80	10.80	41.7	0.39	11.1	0.10	0.07	0.02	28.54	sand	22
1.65	-0.36	13.12	13.12	54.0	0.41	10.9	0.08	0.06	0.02	28.57	sand	25
1.70	-0.41	14.05	14.05	64.5	0.46	12.1	0.09	0.06	0.02	28.54	sand	27
1.75	-0.46	14.01	14.01	73.6	0.53	12.9	0.09	0.06	0.02	28.60	sand	28
1.80	-0.51	13.49	13.49	76.2	0.56	13.3	0.10	0.06	0.02	28.51	sand	26
1.85	-0.56	12.19	12.19	64.5	0.53	13.2	0.11	0.06	0.02	28.47	sand	24
1.90	-0.61	9.62	9.62	57.9	0.60	15.1	0.16	0.09	0.02	28.51	sand to silty sand	25
1.95	-0.66	8.03	8.03	30.0	0.37	15.4	0.19	0.11	0.02	28.60	sand	20
2.00	-0.71	11.66	11.66	29.9	0.26	15.4	0.13	0.07	0.02	28.63	sand	25

Soil interpretation reference: Robertson & Campanella-1983, based on 60% hammer efficiency and .15 m sliding data average

Table I.1 continued

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DEPTH m	ELEV m	TIP Qc MPa	COR TIP Qt MPa	FRICTION Fs kPa	FR RATIO Fs/Qc %	PORE PR Pw kPa	PP RATIO Pw/Qc %	DPP RATIO Pw-Ph/Qc %	INC I deg	TEMP T degC	INTERPRETED SOIL TYPE	N SPT
2.05	-0.76	17.32	17.32	51.4	0.30	15.4	0.09	0.05	0.02	28.63	sand	30
2.10	-0.81	16.58	16.58	62.7	0.38	15.0	0.09	0.04	0.02	28.66	sand	33
2.15	-0.86	16.16	16.16	64.5	0.40	15.6	0.10	0.04	0.02	28.69	sand	33
2.20	-0.91	16.36	16.36	58.5	0.36	17.1	0.10	0.05	0.02	28.78	sand	33
2.25	-0.96	16.92	16.92	66.4	0.39	17.5	0.10	0.05	0.02	28.81	sand	34
2.30	-1.01	17.00	17.00	68.8	0.40	17.7	0.10	0.05	0.02	28.99	sand	34
2.35	-1.06	17.15	17.15	69.1	0.40	18.4	0.11	0.05	0.02	29.12	sand	34
2.40	-1.11	17.52	17.52	70.6	0.40	18.9	0.11	0.05	0.02	29.15	sand	35
2.45	-1.16	17.48	17.48	67.3	0.39	19.6	0.11	0.05	0.02	29.15	sand	35
2.50	-1.21	17.58	17.58	71.6	0.41	19.9	0.11	0.05	0.02	29.15	sand	34
2.55	-1.26	16.68	16.68	75.1	0.45	17.4	0.10	0.03	0.01	25.94	sand	35
2.60	-1.31	18.04	18.04	66.7	0.37	18.5	0.10	0.03	0.01	25.91	sand	36
2.65	-1.36	19.80	19.80	72.3	0.37	19.9	0.10	0.03	0.01	25.91	sand	39
2.70	-1.41	20.91	20.91	93.1	0.45	20.2	0.10	0.03	0.01	25.97	sand	41
2.75	-1.46	21.04	21.04	92.4	0.44	20.9	0.10	0.03	0.01	26.00	sand	42
2.80	-1.51	20.44	20.44	65.1	0.32	21.2	0.10	0.03	0.01	26.19	sand	42
2.85	-1.56	21.82	21.82	49.6	0.23	22.0	0.10	0.03	0.01	26.19	sand	42
2.90	-1.61	20.45	20.45	61.1	0.30	22.2	0.11	0.03	0.01	26.22	sand	41
2.95	-1.66	19.86	19.86	62.7	0.32	22.6	0.11	0.03	0.01	26.22	sand	40
3.00	-1.71	19.63	19.63	74.1	0.38	23.0	0.12	0.03	0.01	26.22	sand	40
3.05	-1.76	20.19	20.19	68.4	0.34	23.3	0.12	0.03	0.01	26.31	sand	40
3.10	-1.81	19.97	19.97	44.9	0.22	24.3	0.12	0.03	0.01	26.61	sand	40
3.15	-1.86	20.15	20.15	43.7	0.22	24.4	0.12	0.03	0.01	26.70	sand	39
3.20	-1.91	18.56	18.56	45.9	0.25	24.4	0.13	0.03	0.01	26.74	sand	37
3.25	-1.96	17.45	17.45	56.1	0.32	24.5	0.14	0.03	0.01	27.04	sand	35
3.30	-2.01	16.28	16.29	45.5	0.28	25.5	0.16	0.04	0.01	27.16	sand	33
3.35	-2.06	15.71	15.72	41.9	0.27	26.4	0.17	0.04	0.01	27.28	sand	31
3.40	-2.11	15.20	15.21	44.3	0.29	26.4	0.17	0.04	0.01	27.50	sand	29
3.45	-2.16	12.76	12.77	26.2	0.21	26.7	0.21	0.04	0.01	27.68	sand	25
3.50	-2.21	9.78	9.79	15.9	0.16	26.7	0.27	0.05	0.01	27.68	sand	20
3.55	-2.26	7.50	7.51	7.9	0.11	26.7	0.36	0.06	0.01	27.74	sand	15
3.60	-2.31	5.85	5.86	5.5	0.09	29.6	0.51	0.12	0.01	26.55	sand to silty sand	15
3.65	-2.36	5.17	5.18	3.9	0.08	31.1	0.60	0.15	0.01	26.43	sand to silty sand	14
3.70	-2.41	5.47	5.48	3.3	0.06	31.6	0.58	0.15	0.01	26.34	sand to silty sand	14
3.75	-2.46	6.20	6.21	5.9	0.10	33.0	0.53	0.14	0.01	26.34	sand to silty sand	16
3.80	-2.51	7.43	7.44	7.9	0.11	33.7	0.45	0.12	0.01	26.43	sand to silty sand	18
3.85	-2.56	7.47	7.48	7.9	0.11	33.5	0.45	0.11	0.01	26.28	sand	15
3.90	-2.61	7.30	7.31	10.8	0.15	33.7	0.46	0.11	0.01	26.34	sand to silty sand	19
3.95	-2.66	7.69	7.70	20.2	0.26	34.4	0.45	0.11	0.01	26.31	sand to silty sand	20
4.00	-2.71	9.25	9.26	33.3	0.36	35.2	0.38	0.09	0.01	26.28	sand	18
4.05	-2.76	9.98	9.99	22.1	0.22	35.6	0.36	0.09	0.01	26.25	sand	21
4.10	-2.81	11.52	11.53	26.7	0.23	35.8	0.31	0.07	0.01	26.22	sand	20
4.15	-2.86	8.54	8.55	29.9	0.35	35.8	0.42	0.09	0.01	26.22	sand	18
4.20	-2.91	6.91	6.92	18.3	0.26	37.0	0.54	0.12	0.01	26.22	sand to silty sand	19
4.25	-2.96	6.84	6.85	18.3	0.27	37.6	0.55	0.13	0.01	26.22	sand to silty sand	18
4.30	-3.01	7.69	7.70	20.8	0.27	38.2	0.50	0.11	0.01	26.22	sand to silty sand	19
4.35	-3.06	7.98	7.99	21.0	0.26	38.2	0.48	0.10	0.01	25.97	sand to silty sand	19
4.40	-3.11	6.75	6.76	24.8	0.37	35.6	0.53	0.08	0.01	22.80	sand to silty sand	19
4.45	-3.16	7.87	7.88	22.8	0.29	33.4	0.42	0.03	0.01	22.80	sand to silty sand	20
4.50	-3.21	9.90	9.91	23.4	0.24	33.5	0.34	0.02	0.01	22.80	sand	20

Soil interpretation reference: Robertson & Campanella-1983, based on 60% hammer efficiency and .15 m sliding data average

Table I.1 continued

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DEPTH m	ELEV m	TIP Qc MPa	COR TIP Qt MPa	FRICTION Fs kPa	FR RATIO Fs/Qc %	PORE PR Pw kPa	PP RATIO Pw/Qc %	DPP RATIO Pw-Ph/Qc %	INC I deg	TEMP T degC	INTERPRETED SOIL TYPE	N SPT
4.55	-3.26	11.72	11.73	28.0	0.24	34.4	0.29	0.02	0.01	22.86	sand	21
4.60	-3.31	9.75	9.76	24.7	0.25	35.6	0.37	0.03	0.01	22.83	sand	19
4.65	-3.36	7.26	7.27	29.0	0.40	35.6	0.49	0.04	0.01	22.83	sand to silty sand	20
4.70	-3.41	6.46	6.47	20.8	0.32	35.8	0.55	0.04	0.01	22.80	sand to silty sand	16
4.75	-3.46	5.96	5.97	25.4	0.43	37.6	0.63	0.06	0.01	22.80	sand to silty sand	15
4.80	-3.51	6.15	6.16	19.6	0.32	37.7	0.61	0.05	0.01	22.80	sand to silty sand	17
4.85	-3.56	7.79	7.80	17.6	0.23	37.9	0.49	0.04	0.01	22.80	sand to silty sand	19
4.90	-3.61	8.82	8.83	18.3	0.21	37.9	0.43	0.03	0.01	22.80	sand to silty sand	20
4.95	-3.66	7.04	7.05	16.7	0.24	39.8	0.57	0.06	0.01	22.80	sand to silty sand	19
5.00	-3.71	6.43	6.44	15.4	0.24	39.8	0.62	0.05	0.01	22.83	sand to silty sand	17
5.05	-3.76	7.38	7.39	17.0	0.23	40.1	0.54	0.04	0.01	22.86	sand to silty sand	20
5.10	-3.81	9.93	9.94	19.3	0.19	40.3	0.41	0.03	0.01	22.83	sand	20
5.15	-3.86	12.17	12.18	17.6	0.14	40.4	0.33	0.02	0.01	22.86	sand	23
5.20	-3.91	11.98	11.99	29.3	0.24	40.8	0.34	0.02	0.01	22.83	sand	24
5.25	-3.96	12.32	12.33	27.4	0.22	41.7	0.34	0.02	0.01	22.86	sand	27
5.30	-4.01	16.07	16.08	33.5	0.21	42.4	0.26	0.02	0.01	22.86	sand	33
5.35	-4.06	20.71	20.72	44.9	0.22	42.4	0.20	0.01	0.01	22.89	sand	39
5.40	-4.11	21.10	21.11	62.5	0.30	41.9	0.20	0.01	0.01	23.01	sand	43
5.45	-4.16	22.34	22.35	64.5	0.29	41.9	0.19	0.00	0.01	23.10	gravelly sand to sand	38
5.50	-4.21	24.22	24.23	61.7	0.25	42.4	0.18	0.00	0.01	23.23	gravelly sand to sand	40
5.55	-4.26	25.53	25.54	60.0	0.24	42.4	0.17	0.00	0.02	23.32	gravelly sand to sand	39
5.60	-4.31	20.89	20.90	61.8	0.30	35.5	0.17	-0.03	0.05	23.41	gravelly sand to sand	41
5.65	-4.36	26.63	26.64	76.2	0.29	42.4	0.16	-0.00	0.06	23.38	gravelly sand to sand	42
5.70	-4.41	27.93	27.94	73.6	0.26	44.0	0.16	0.00	0.06	23.29	gravelly sand to sand	48
5.75	-4.46	31.33	31.34	77.9	0.25	45.7	0.15	0.01	0.06	23.32	gravelly sand to sand	51
5.80	-4.51	32.89	32.90	87.6	0.27	45.9	0.14	0.01	0.07	23.41	gravelly sand to sand	53
5.85	-4.56	31.07	31.08	103.9	0.33	45.0	0.14	0.00	0.08	23.56	gravelly sand to sand	52
5.90	-4.61	29.98	29.99	90.5	0.30	46.3	0.15	0.00	0.08	23.74	gravelly sand to sand	50
5.95	-4.66	29.25	29.26	80.1	0.27	48.5	0.17	0.01	0.11	23.77	gravelly sand to sand	49
6.00	-4.71	29.34	29.35	66.4	0.23	49.2	0.17	0.01	0.11	23.77	gravelly sand to sand	50
6.05	-4.76	31.46	31.47	70.0	0.22	49.1	0.16	0.01	0.20	23.81	gravelly sand to sand	51
6.10	-4.81	31.14	31.15	82.7	0.27	47.6	0.15	0.00	0.20	23.93	gravelly sand to sand	52
6.15	-4.86	30.35	30.36	67.0	0.22	46.9	0.15	-0.00	0.21	24.29	gravelly sand to sand	52
6.20	-4.91	32.10	32.11	94.4	0.29	48.3	0.15	0.00	0.21	24.57	gravelly sand to sand	53
6.25	-4.96	33.09	33.10	117.3	0.35	54.6	0.17	0.02	0.21	25.64	gravelly sand to sand	55
6.30	-5.01	33.28	33.29	127.0	0.38	48.0	0.14	-0.00	0.23	22.83	gravelly sand to sand	56
6.35	-5.06	33.63	33.64	131.5	0.39	51.3	0.15	0.00	0.23	22.83	gravelly sand to sand	54
6.40	-5.11	29.63	29.64	118.0	0.40	49.1	0.17	-0.00	0.25	22.31	gravelly sand to sand	53
6.45	-5.16	32.70	32.71	110.0	0.34	50.2	0.15	-0.00	0.25	22.07	gravelly sand to sand	53
6.50	-5.21	33.09	33.10	86.0	0.26	49.1	0.15	-0.01	0.25	22.04	gravelly sand to sand	54
6.55	-5.26	32.22	32.23	87.6	0.27	44.9	0.14	-0.02	0.25	22.13	gravelly sand to sand	52
6.60	-5.31	27.54	27.55	93.1	0.34	49.1	0.18	-0.01	0.44	22.16	gravelly sand to sand	45
6.65	-5.36	20.65	20.66	160.1	0.78	49.1	0.24	-0.02	0.42	22.31	sand	44
6.70	-5.41	17.27	17.28	111.3	0.64	51.3	0.30	-0.01	0.42	22.31	sand	37
6.75	-5.46	17.72	17.73	185.5	1.05	52.0	0.29	-0.01	0.44	22.34	sand	34
6.80	-5.51	16.62	16.63	104.7	0.63	54.0	0.32	-0.00	0.73	22.31	sand	32
6.85	-5.56	13.40	13.41	61.4	0.46	53.6	0.40	-0.01	0.76	22.37	sand	33
6.90	-5.61	19.18	19.19	64.7	0.34	54.3	0.28	-0.00	0.75	22.55	sand	38
6.95	-5.66	23.80	23.81	70.3	0.30	55.8	0.23	0.00	1.00	22.80	gravelly sand to sand	37
7.00	-5.71	24.37	24.38	62.7	0.26	57.2	0.23	0.00	1.00	22.86	gravelly sand to sand	42

Soil interpretation reference: Robertson & Campanella-1983, based on 60% hammer efficiency and .15 m sliding data average

Table I.1 continued

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DEPTH m	ELEV m	TIP Qc MPa	COR TIP Qt MPa	FRICTION Fs kPa	FR RATIO Fs/Qc %	PORE PR Pw kPa	PP RATIO Pw/Qc %	DPP RATIO Pw-Ph/Qc %	INC I deg	TEMP T degC	INTERPRETED SOIL TYPE	N SPT
7.05	-5.76	26.85	26.86	64.8	0.24	58.1	0.22	0.01	1.01	22.92	gravelly sand to sand	45
7.10	-5.81	29.44	29.45	72.5	0.25	57.5	0.20	0.00	1.01	23.29	gravelly sand to sand	48
7.15	-5.86	30.62	30.63	100.2	0.33	55.8	0.18	-0.01	1.02	23.29	gravelly sand to sand	50
7.20	-5.91	30.58	30.59	110.0	0.36	55.8	0.18	-0.01	1.02	23.29	gravelly sand to sand	52
7.25	-5.96	31.65	31.66	107.2	0.34	58.1	0.18	-0.00	1.76	23.44	gravelly sand to sand	54
7.30	-6.01	34.39	34.40	89.8	0.26	58.1	0.17	-0.00	1.47	23.77	gravelly sand to sand	56
7.35	-6.06	34.06	34.07	95.9	0.28	58.1	0.17	-0.00	1.47	23.77	gravelly sand to sand	54
7.40	-6.11	28.17	28.18	116.6	0.41	54.4	0.19	-0.02	1.47	22.34	gravelly sand to sand	50
7.45	-6.16	28.20	28.21	126.5	0.45	58.6	0.21	-0.01	1.49	22.31	gravelly sand to sand	47
7.50	-6.21	28.49	28.50	110.7	0.39	60.5	0.21	-0.00	1.49	22.31	gravelly sand to sand	48
7.55	-6.26	29.63	29.64	119.8	0.40	62.4	0.21	0.00	1.49	22.31	gravelly sand to sand	50
7.60	-6.31	31.32	31.33	122.4	0.39	64.5	0.21	0.01	1.49	22.34	gravelly sand to sand	51
7.65	-6.36	30.16	30.17	128.6	0.43	62.7	0.21	0.00	1.84	22.80	gravelly sand to sand	52
7.70	-6.41	32.47	32.48	133.5	0.41	65.4	0.20	0.01	1.84	22.77	gravelly sand to sand	54
7.75	-6.46	34.26	34.27	145.8	0.43	67.2	0.20	0.01	1.85	22.83	gravelly sand to sand	57
7.80	-6.51	35.59	35.60	170.0	0.48	69.3	0.19	0.02	1.85	22.80	gravelly sand to sand	59
7.85	-6.56	36.40	36.41	196.5	0.54	71.1	0.20	0.02	1.85	22.83	gravelly sand to sand	60
7.90	-6.61	36.41	36.42	212.5	0.58	71.5	0.20	0.02	1.85	22.86	gravelly sand to sand	60
7.95	-6.66	35.89	35.90	219.8	0.61	71.5	0.20	0.02	1.86	22.95	gravelly sand to sand	60
8.00	-6.71	35.12	35.13	207.0	0.59	72.4	0.21	0.02	1.91	23.23	gravelly sand to sand	60
8.05	-6.76	37.06	37.07	226.0	0.61	72.5	0.20	0.02	1.91	23.29	gravelly sand to sand	62
8.10	-6.81	39.07	39.08	231.8	0.59	73.1	0.19	0.02	1.92	23.62	gravelly sand to sand	64
8.15	-6.86	38.81	38.82	227.9	0.59	73.4	0.19	0.02	2.09	23.77	gravelly sand to sand	65
8.20	-6.91	39.58	39.59	230.6	0.58	73.5	0.19	0.01	2.37	24.17	gravelly sand to sand	66
8.25	-6.96	40.23	40.24	226.6	0.56	73.5	0.18	0.01	2.38	24.26	gravelly sand to sand	67
8.30	-7.01	41.24	41.25	240.3	0.58	73.8	0.18	0.01	2.38	24.75	gravelly sand to sand	68
8.35	-7.06	41.71	41.72	257.8	0.62	73.8	0.18	0.01	2.39	25.24	gravelly sand to sand	68
8.40	-7.11	39.43	39.44	240.9	0.61	73.9	0.19	0.01	2.39	25.58	gravelly sand to sand	66
8.45	-7.16	37.32	37.33	212.2	0.57	73.8	0.20	0.01	2.39	25.79	gravelly sand to sand	63
8.50	-7.21	37.43	37.44	283.2	0.76	73.8	0.20	0.01	2.39	26.22	gravelly sand to sand	62
8.55	-7.26	36.31	36.32	202.5	0.56	74.2	0.20	0.01	2.39	26.74	gravelly sand to sand	58
8.60	-7.31	30.45	30.46	194.1	0.64	73.8	0.24	0.01	2.43	26.70	gravelly sand to sand	55
8.65	-7.36	33.13	33.15	188.8	0.57	76.0	0.23	0.01	2.43	26.70	gravelly sand to sand	54
8.70	-7.41	33.40	33.42	181.0	0.54	78.3	0.23	0.02	2.43	26.70	gravelly sand to sand	57
8.75	-7.46	35.18	35.20	194.7	0.55	79.8	0.23	0.02	2.43	26.74	gravelly sand to sand	59
8.80	-7.51	36.86	36.88	216.8	0.59	80.7	0.22	0.02	2.43	26.74	gravelly sand to sand	61
8.85	-7.56	38.16	38.18	243.1	0.64	80.9	0.21	0.02	2.43	26.70	gravelly sand to sand	63
8.90	-7.61	38.12	38.14	280.6	0.74	82.2	0.22	0.02	2.43	26.70	gravelly sand to sand	62
8.95	-7.66	35.80	35.82	214.8	0.60	80.5	0.22	0.02	2.43	26.98	gravelly sand to sand	57
9.00	-7.71	28.98	28.99	173.9	0.60	70.4	0.24	-0.02	2.90	22.83	?	?

Soil interpretation reference: Robertson & Campanella-1983, based on 60% hammer efficiency and .15 m sliding data average

Note: Pore pressure decay curves for FRZ001 lost due to computer failure. Rate of decay was very rapid, similar to FRZ002/003.

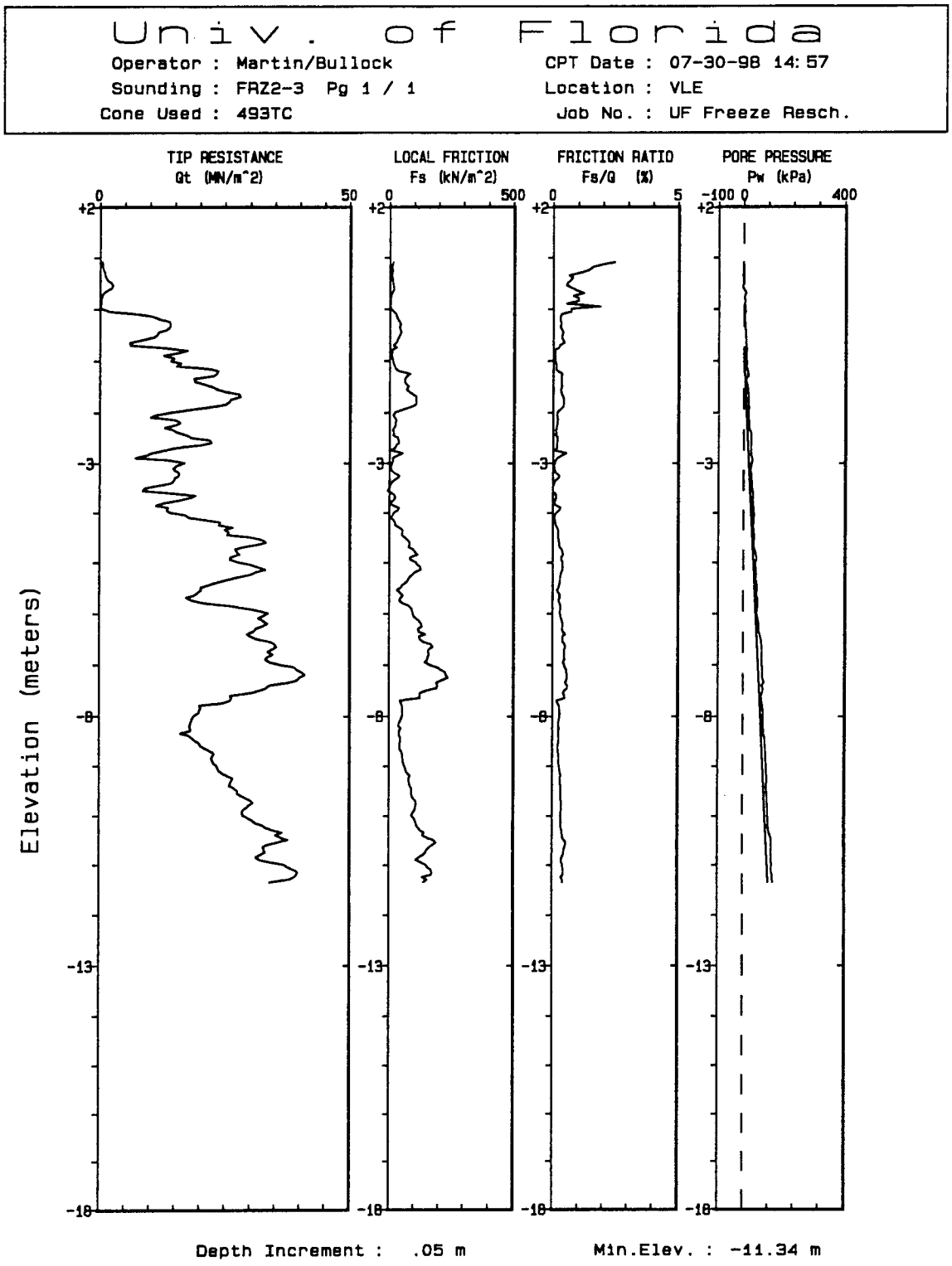

Figure I.3 CPT Sounding Profile for FRZ002/003

Table I.2 CPT Sounding FRZ002/003

SOUNDING DATA IN FILE FRZ2-3 07-30-98 14:57

OPERATOR : Martin/Bullock LOCATION : VLE

CONE ID : 493TC JOB No. : UF Freeze Resch.

University of Florida
Geotechnical Engineering

DEPTH m	ELEV m	TIP Qc MPa	COR TIP Qt MPa	FRICTION Fs kPa	FR RATIO Fs/Qc %	PORE PR Pw kPa	PP RATIO Pw/Qc %	DPP RATIO Pw-Ph/Qc %	INC I deg	TEMP T degC	INTERPRETED SOIL TYPE	N SPT
0.05	0.91	0.50	0.50	12.2	2.44	-1.4	-0.28	-0.28	0.02	36.01	?	?
0.10	0.86	0.58	0.58	11.0	1.90	-1.0	-0.17	-0.17	0.02	35.98	silty clay to clay	4
0.15	0.81	0.58	0.58	9.1	1.57	-2.2	-0.38	-0.38	0.02	35.98	silty clay to clay	4
0.20	0.76	0.73	0.73	10.4	1.42	-2.0	-0.27	-0.27	0.03	35.98	clayey silt to silty clay	4
0.25	0.71	0.98	0.98	11.0	1.12	-2.0	-0.20	-0.20	0.03	35.98	clayey silt to silty clay	5
0.30	0.66	1.04	1.04	6.6	0.63	-4.2	-0.40	-0.40	0.03	35.98	sandy silt to clayey silt	4
0.35	0.61	1.27	1.27	9.8	0.77	-1.8	-0.14	-0.14	0.03	35.98	sandy silt to clayey silt	5
0.40	0.56	1.58	1.58	10.9	0.69	-1.8	-0.11	-0.11	0.02	32.56	sandy silt to clayey silt	7
0.45	0.51	2.19	2.19	12.2	0.56	-1.3	-0.06	-0.06	0.02	32.56	silty sand to sandy silt	7
0.50	0.46	2.57	2.57	13.5	0.53	-4.2	-0.16	-0.16	0.02	32.50	silty sand to sandy silt	8
0.55	0.41	2.28	2.28	17.2	0.75	-4.2	-0.18	-0.18	0.02	32.14	sandy silt to clayey silt	8
0.60	0.36	1.31	1.31	12.9	0.98	3.5	0.27	0.27	0.02	32.08	sandy silt to clayey silt	6
0.65	0.31	0.72	0.72	8.8	1.22	7.9	1.10	1.10	0.02	32.08	clayey silt to silty clay	4
0.70	0.26	0.46	0.46	3.7	0.80	2.9	0.63	0.63	0.02	32.05	sensitive fine grained	2
0.75	0.21	0.26	0.26	2.6	1.00	1.5	0.58	0.58	0.02	31.71	sensitive fine grained	2
0.80	0.16	0.20	0.20	2.0	1.00	3.8	1.90	1.90	0.02	31.59	sensitive fine grained	1
0.85	0.11	0.24	0.24	1.3	0.54	2.9	1.21	1.21	0.02	31.59	sensitive fine grained	1
0.90	0.06	0.17	0.17	3.2	1.88	4.3	2.53	2.53	0.02	31.43	sensitive fine grained	1
0.95	0.01	0.36	0.36	2.6	0.72	5.0	1.39	1.39	0.02	31.10	clayey silt to silty clay	4
1.00	-0.04	2.01	2.01	14.2	0.71	6.7	0.33	0.31	0.02	31.10	silty sand to sandy silt	11
1.05	-0.09	7.69	7.69	24.7	0.32	1.1	0.01	0.00	0.01	26.67	sand to silty sand	17
1.10	-0.14	10.55	10.55	28.4	0.27	2.4	0.02	0.01	0.01	26.61	sand	20
1.15	-0.19	11.93	11.93	32.5	0.27	2.8	0.02	0.01	0.01	26.64	sand	24
1.20	-0.24	13.79	13.79	39.0	0.28	4.1	0.03	0.01	0.01	26.64	sand	27
1.25	-0.29	14.08	14.08	44.2	0.31	4.8	0.03	0.01	0.01	26.64	sand	28
1.30	-0.34	13.96	13.96	37.8	0.27	4.8	0.03	0.01	0.01	26.67	sand	28
1.35	-0.39	13.27	13.27	42.3	0.32	5.2	0.04	0.01	0.01	26.67	sand	26
1.40	-0.44	11.69	11.69	45.9	0.39	6.7	0.06	0.02	0.01	26.70	sand	24
1.45	-0.49	11.39	11.39	40.4	0.35	7.3	0.06	0.02	0.01	26.74	sand	23
1.50	-0.54	10.87	10.87	36.4	0.33	8.6	0.08	0.03	0.01	26.70	sand	21
1.55	-0.59	8.52	8.52	31.1	0.37	9.1	0.11	0.04	0.01	26.70	sand to silty sand	21
1.60	-0.64	5.99	5.99	26.1	0.44	9.3	0.16	0.05	0.01	26.70	sand to silty sand	17
1.65	-0.69	6.20	6.20	14.8	0.24	9.4	0.15	0.04	0.01	26.70	sand to silty sand	21
1.70	-0.74	12.43	12.43	27.4	0.22	10.1	0.08	0.02	0.01	26.70	sand	24
1.75	-0.79	17.39	17.39	6.5	0.04	10.1	0.06	0.01	0.01	26.70	sand	30
1.80	-0.84	15.88	15.88	11.0	0.07	9.8	0.06	0.01	0.01	26.70	sand	31
1.85	-0.89	12.73	12.73	6.6	0.05	9.3	0.07	0.00	0.01	26.22	sand	29
1.90	-0.94	14.76	14.76	9.8	0.07	10.5	0.07	0.01	0.01	26.22	sand	28
1.95	-0.99	14.19	14.19	12.6	0.09	11.5	0.08	0.01	0.01	26.22	sand	30
2.00	-1.04	16.17	16.17	15.9	0.10	12.1	0.07	0.01	0.06	26.22	sand	30

Soil interpretation reference: Robertson & Campanella-1983, based on 60% hammer efficiency and .15 m sliding data average

Table I.2 continued

FRZ2-3 : VLE : 07-30-98 14:57 PAGE 2

DEPTH m	ELEV m	TIP Qc MPa	COR TIP Qt MPa	FRICTION Fs kPa	FR RATIO Fs/Qc %	PORE PR Pw kPa	PP RATIO Pw/Qc %	DPP RATIO Pw-Ph/Qc %	INC I deg	TEMP T degC	INTERPRETED SOIL TYPE	N SPT
2.05	-1.09	15.31	15.31	18.0	0.12	8.7	0.06	-0.01	0.01	25.73	sand	36
2.10	-1.14	21.88	21.88	23.5	0.11	13.4	0.06	0.01	0.01	25.73	gravelly sand to sand	34
2.15	-1.19	23.60	23.60	36.1	0.15	15.6	0.07	0.02	0.01	25.73	gravelly sand to sand	38
2.20	-1.24	23.23	23.23	82.3	0.35	16.8	0.07	0.02	0.01	25.73	gravelly sand to sand	39
2.25	-1.29	22.76	22.76	69.3	0.30	18.3	0.08	0.02	0.01	25.73	sand	43
2.30	-1.34	18.78	18.78	60.8	0.32	7.7	0.04	-0.03	0.01	25.73	sand	40
2.35	-1.39	18.88	18.88	58.4	0.31	8.3	0.04	-0.03	0.01	25.76	sand	39
2.40	-1.44	20.86	20.86	67.0	0.32	12.4	0.06	-0.01	0.01	25.76	sand	41
2.45	-1.49	22.29	22.29	77.1	0.35	15.0	0.07	0.00	0.01	25.73	sand	44
2.50	-1.54	23.43	23.43	67.0	0.29	17.0	0.07	0.01	0.01	25.73	gravelly sand to sand	39
2.55	-1.59	24.86	24.86	75.6	0.30	15.8	0.06	0.00	0.01	24.78	gravelly sand to sand	42
2.60	-1.64	27.80	27.80	92.2	0.33	18.2	0.07	0.01	0.01	24.75	gravelly sand to sand	45
2.65	-1.69	27.97	27.97	107.8	0.39	19.2	0.07	0.01	0.01	24.75	gravelly sand to sand	46
2.70	-1.74	26.16	26.16	106.0	0.41	19.5	0.07	0.01	0.01	24.75	gravelly sand to sand	44
2.75	-1.79	25.84	25.84	107.3	0.42	19.6	0.08	0.01	0.01	24.75	gravelly sand to sand	43
2.80	-1.84	25.04	25.04	106.1	0.42	19.4	0.08	0.01	0.01	24.75	sand	49
2.85	-1.89	22.51	22.51	88.1	0.39	21.5	0.10	0.01	0.01	24.75	sand	44
2.90	-1.94	18.42	18.42	54.5	0.30	19.9	0.11	0.00	0.01	24.78	sand	37
2.95	-1.99	14.31	14.31	22.7	0.16	19.2	0.13	-0.00	0.01	24.87	sand	29
3.00	-2.04	11.32	11.32	15.0	0.13	19.4	0.17	-0.01	0.01	25.18	sand	24
3.05	-2.09	10.25	10.25	18.0	0.18	19.2	0.19	-0.01	0.01	25.24	sand	24
3.10	-2.14	15.06	15.06	27.1	0.18	21.5	0.14	0.00	0.01	25.30	sand	28
3.15	-2.19	16.03	16.03	24.2	0.15	21.7	0.14	0.00	0.01	25.73	sand	31
3.20	-2.24	15.32	15.32	25.5	0.17	21.7	0.14	-0.00	0.01	25.73	sand	30
3.25	-2.29	13.01	13.01	18.1	0.14	21.7	0.17	-0.01	0.01	26.16	sand	29
3.30	-2.34	14.50	14.50	13.2	0.09	22.2	0.15	-0.01	0.03	26.22	sand	29
3.35	-2.39	15.65	15.66	17.2	0.11	28.9	0.18	0.03	0.03	25.94	sand	32
3.40	-2.44	17.47	17.48	15.9	0.09	29.0	0.17	0.03	0.03	25.88	sand	34
3.45	-2.49	18.23	18.24	34.5	0.19	29.7	0.16	0.03	0.03	26.00	gravelly sand to sand	32
3.50	-2.54	21.93	21.94	35.2	0.16	29.7	0.14	0.02	0.03	25.85	gravelly sand to sand	35
3.55	-2.59	22.33	22.34	38.4	0.17	29.3	0.13	0.02	0.03	25.85	gravelly sand to sand	36
3.60	-2.64	20.32	20.33	28.7	0.14	29.6	0.15	0.02	0.05	25.88	gravelly sand to sand	32
3.65	-2.69	15.29	15.30	23.4	0.15	29.5	0.19	0.02	0.05	25.85	sand	32
3.70	-2.74	12.83	12.84	6.6	0.05	29.7	0.23	0.02	0.05	26.03	sand	26
3.75	-2.79	10.28	10.29	54.1	0.53	30.3	0.29	0.03	0.05	25.94	sand	22
3.80	-2.84	9.31	9.32	35.2	0.38	30.4	0.33	0.03	0.05	26.03	sand to silty sand	22
3.85	-2.89	7.17	7.18	13.5	0.19	33.8	0.47	0.08	0.05	26.09	sand	20
3.90	-2.94	13.86	13.87	14.7	0.11	35.2	0.25	0.05	0.05	25.91	sand	25
3.95	-2.99	16.85	16.86	11.4	0.07	32.8	0.19	0.02	0.06	26.06	sand	31
4.00	-3.04	15.42	15.43	6.9	0.04	32.8	0.21	0.02	0.06	24.78	sand	31
4.05	-3.09	14.71	14.72	7.4	0.05	26.6	0.18	-0.03	0.06	23.29	sand	30
4.10	-3.14	14.97	14.98	9.0	0.06	26.2	0.18	-0.03	0.06	23.29	sand	30
4.15	-3.19	15.84	15.85	20.0	0.13	29.0	0.18	-0.01	0.06	23.29	sand	31
4.20	-3.24	15.75	15.76	39.8	0.25	31.6	0.20	-0.00	0.06	23.29	sand	31
4.25	-3.29	15.01	15.02	33.0	0.22	32.7	0.22	0.00	0.06	23.29	sand	30
4.30	-3.34	14.75	14.76	16.0	0.11	32.7	0.22	-0.00	0.06	23.29	sand	29
4.35	-3.39	14.26	14.27	5.9	0.04	33.7	0.24	0.00	0.07	23.32	sand	27
4.40	-3.44	11.91	11.92	1.8	0.02	34.6	0.29	0.01	0.09	23.38	sand	23
4.45	-3.49	9.04	9.05	-0.7	-0.01	34.9	0.39	0.01	0.12	23.35	?	?
4.50	-3.54	8.59	8.60	-6.0	-0.07	35.3	0.41	0.01	0.12	23.41	sand	21

Soil interpretation reference: Robertson & Campanella-1983, based on 60% hammer efficiency and .15 m sliding data average

Table I.2 continued

FRZ2-3 : VLE : 07-30-98 14:57 PAGE 3

DEPTH m	ELEV m	TIP Qc MPa	COR TIP Qt MPa	FRICTION Fs kPa	FR RATIO Fs/Qc %	PORE PR Pw kPa	PP RATIO Pw/Qc %	DPP RATIO Pw-Ph/Qc %	INC I deg	TEMP T degC	INTERPRETED SOIL TYPE	N SPT
4.55	-3.59	13.68	13.69	9.4	0.07	37.2	0.27	0.01	0.12	23.41	sand	28
4.60	-3.64	19.08	19.09	22.0	0.12	37.2	0.19	0.01	0.12	23.62	sand	34
4.65	-3.69	18.17	18.18	23.4	0.13	37.2	0.20	0.01	0.12	23.77	sand	36
4.70	-3.74	16.06	16.07	16.3	0.10	36.0	0.22	-0.00	0.12	23.77	sand	31
4.75	-3.79	12.87	12.88	5.3	0.04	37.0	0.29	-0.00	0.12	23.77	sand	27
4.80	-3.84	11.32	11.33	14.0	0.12	37.2	0.33	-0.00	0.12	23.77	sand	25
4.85	-3.89	13.61	13.62	39.0	0.29	39.4	0.29	0.01	0.12	23.77	sand	26
4.90	-3.94	13.42	13.43	33.2	0.25	39.4	0.29	0.01	0.12	23.77	sand	27
4.95	-3.99	13.90	13.91	18.8	0.14	39.6	0.28	0.00	0.13	23.77	sand	30
5.00	-4.04	17.05	17.06	13.0	0.08	41.5	0.24	0.01	0.14	24.08	sand	32
5.05	-4.09	17.69	17.70	7.3	0.04	40.3	0.23	0.00	0.24	24.23	gravelly sand to sand	31
5.10	-4.14	21.35	21.36	17.6	0.08	40.1	0.19	-0.00	0.24	24.26	gravelly sand to sand	35
5.15	-4.19	24.08	24.09	22.8	0.09	39.7	0.16	-0.01	0.24	24.26	gravelly sand to sand	38
5.20	-4.24	23.74	23.75	23.4	0.10	38.2	0.16	-0.01	0.22	24.26	gravelly sand to sand	41
5.25	-4.29	26.51	26.52	40.4	0.15	37.6	0.14	-0.02	0.22	24.42	gravelly sand to sand	42
5.30	-4.34	24.93	24.94	52.3	0.21	39.0	0.16	-0.01	0.23	23.77	gravelly sand to sand	43
5.35	-4.39	25.77	25.78	54.1	0.21	39.4	0.15	-0.01	0.23	23.77	gravelly sand to sand	42
5.40	-4.44	25.49	25.50	50.1	0.20	41.8	0.16	-0.01	0.23	23.77	gravelly sand to sand	45
5.45	-4.49	29.79	29.80	62.5	0.21	43.9	0.15	-0.00	0.23	23.77	gravelly sand to sand	49
5.50	-4.54	32.41	32.42	72.3	0.22	42.9	0.13	-0.01	0.23	23.77	gravelly sand to sand	53
5.55	-4.59	33.24	33.25	82.0	0.25	40.4	0.12	-0.01	0.23	23.77	gravelly sand to sand	54
5.60	-4.64	31.77	31.78	79.7	0.25	39.4	0.12	-0.02	0.34	23.77	gravelly sand to sand	52
5.65	-4.69	28.58	28.59	77.7	0.27	39.4	0.14	-0.02	0.37	23.90	gravelly sand to sand	49
5.70	-4.74	27.08	27.09	95.1	0.35	41.9	0.15	-0.02	0.37	24.05	gravelly sand to sand	46
5.75	-4.79	27.34	27.35	104.3	0.38	48.4	0.18	0.01	0.38	24.75	gravelly sand to sand	46
5.80	-4.84	27.92	27.93	113.6	0.41	49.1	0.18	0.01	0.38	24.75	gravelly sand to sand	45
5.85	-4.89	26.11	26.12	85.2	0.33	53.0	0.20	0.02	0.38	24.75	gravelly sand to sand	44
5.90	-4.94	25.98	25.99	84.0	0.32	53.3	0.21	0.02	0.38	24.75	gravelly sand to sand	44
5.95	-4.99	27.59	27.60	107.3	0.39	45.8	0.17	-0.01	0.38	24.75	gravelly sand to sand	46
6.00	-5.04	29.89	29.90	112.7	0.38	48.4	0.16	-0.00	0.38	22.22	gravelly sand to sand	49
6.05	-5.09	31.55	31.56	124.4	0.39	49.7	0.16	-0.00	0.38	22.19	gravelly sand to sand	53
6.10	-5.14	33.14	33.15	127.2	0.38	49.2	0.15	-0.00	0.38	22.31	gravelly sand to sand	53
6.15	-5.19	31.11	31.12	101.0	0.32	50.6	0.16	-0.00	0.38	22.31	gravelly sand to sand	52
6.20	-5.24	30.07	30.08	93.8	0.31	50.6	0.17	-0.00	0.38	22.31	gravelly sand to sand	49
6.25	-5.29	27.60	27.61	81.1	0.29	47.7	0.17	-0.02	0.43	22.31	gravelly sand to sand	46
6.30	-5.34	25.35	25.36	75.3	0.30	49.0	0.19	-0.01	0.43	22.31	gravelly sand to sand	42
6.35	-5.39	23.53	23.54	68.0	0.29	51.9	0.22	-0.00	0.43	23.29	gravelly sand to sand	39
6.40	-5.44	21.82	21.83	52.4	0.24	52.9	0.24	-0.00	0.43	23.29	gravelly sand to sand	36
6.45	-5.49	20.19	20.20	43.4	0.21	55.0	0.27	0.01	0.44	23.29	gravelly sand to sand	35
6.50	-5.54	20.25	20.26	32.0	0.16	55.1	0.27	0.00	0.66	23.29	sand	40
6.55	-5.59	19.51	19.52	44.8	0.23	52.2	0.27	-0.01	0.71	23.32	sand	39
6.60	-5.64	18.88	18.89	55.8	0.30	53.3	0.28	-0.01	0.71	23.56	sand	37
6.65	-5.69	17.27	17.28	46.2	0.27	55.0	0.32	-0.00	0.72	23.77	sand	36
6.70	-5.74	18.48	18.49	41.1	0.22	57.1	0.31	0.00	0.72	23.77	sand	38
6.75	-5.79	20.93	20.94	55.3	0.26	57.1	0.27	0.00	0.88	23.77	gravelly sand to sand	36
6.80	-5.84	25.42	25.43	79.0	0.31	56.0	0.22	-0.01	0.88	23.81	gravelly sand to sand	42
6.85	-5.89	29.05	29.06	89.2	0.31	55.3	0.19	-0.01	0.92	24.20	gravelly sand to sand	48
6.90	-5.94	32.00	32.01	93.7	0.29	55.1	0.17	-0.01	0.92	24.26	gravelly sand to sand	53
6.95	-5.99	33.66	33.67	96.4	0.29	52.9	0.16	-0.02	0.93	24.26	gravelly sand to sand	55
7.00	-6.04	32.62	32.63	97.7	0.30	55.0	0.17	-0.01	0.93	24.39	gravelly sand to sand	54

Soil interpretation reference: Robertson & Campanella-1983, based on 60% hammer efficiency and .15 m sliding data average

Table I.2 continued

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DEPTH m	ELEV m	TIP Qc MPa	COR TIP Qt MPa	FRICTION Fs kPa	FR RATIO Fs/Qc %	PORE PR Pw kPa	PP RATIO Pw/Qc %	DPP RATIO Pw-Ph/Qc %	INC I deg	TEMP T degC	INTERPRETED SOIL TYPE	N SPT
7.05	-6.09	31.73	31.74	107.9	0.34	57.4	0.18	-0.01	0.94	24.72	gravelly sand to sand	54
7.10	-6.14	32.73	32.74	120.7	0.37	59.6	0.18	-0.00	0.94	24.75	gravelly sand to sand	54
7.15	-6.19	33.55	33.56	129.6	0.39	60.7	0.18	-0.00	1.00	24.75	gravelly sand to sand	55
7.20	-6.24	32.45	32.46	130.5	0.40	61.6	0.19	0.00	1.37	25.06	gravelly sand to sand	54
7.25	-6.29	31.17	31.18	117.3	0.38	62.0	0.20	0.00	1.37	25.24	gravelly sand to sand	52
7.30	-6.34	30.77	30.78	119.1	0.39	62.1	0.20	-0.00	1.38	25.24	gravelly sand to sand	51
7.35	-6.39	29.54	29.55	146.9	0.50	65.1	0.22	0.01	1.47	25.73	gravelly sand to sand	50
7.40	-6.44	30.07	30.08	121.1	0.40	68.6	0.23	0.02	1.47	25.73	gravelly sand to sand	51
7.45	-6.49	31.40	31.41	122.4	0.39	70.8	0.23	0.02	1.47	25.73	gravelly sand to sand	53
7.50	-6.54	34.15	34.16	137.7	0.40	73.1	0.21	0.03	1.47	25.73	gravelly sand to sand	56
7.55	-6.59	34.92	34.93	166.7	0.48	73.1	0.21	0.02	1.47	25.79	gravelly sand to sand	58
7.60	-6.64	35.36	35.37	175.0	0.49	74.6	0.21	0.03	1.48	26.06	gravelly sand to sand	58
7.65	-6.69	34.45	34.46	159.6	0.46	73.6	0.21	0.02	1.48	26.22	gravelly sand to sand	57
7.70	-6.74	33.59	33.60	156.3	0.47	73.5	0.22	0.02	1.48	26.22	gravelly sand to sand	57
7.75	-6.79	34.62	34.63	160.9	0.46	74.5	0.22	0.02	1.48	26.37	gravelly sand to sand	56
7.80	-6.84	33.36	33.38	155.4	0.47	75.2	0.23	0.02	1.48	26.64	gravelly sand to sand	56
7.85	-6.89	33.09	33.10	155.1	0.47	74.9	0.23	0.02	1.62	26.70	gravelly sand to sand	56
7.90	-6.94	33.92	33.93	145.2	0.43	75.0	0.22	0.02	1.63	26.83	gravelly sand to sand	57
7.95	-6.99	36.25	36.26	166.1	0.46	75.0	0.21	0.02	1.64	27.19	gravelly sand to sand	61
8.00	-7.04	38.92	38.94	195.7	0.50	75.5	0.19	0.02	1.66	27.22	gravelly sand to sand	64
8.05	-7.09	39.41	39.43	210.2	0.53	76.3	0.19	0.02	1.67	27.68	gravelly sand to sand	66
8.10	-7.14	40.36	40.38	227.2	0.56	77.1	0.19	0.02	1.70	27.68	gravelly sand to sand	67
8.15	-7.19	41.03	41.05	228.1	0.56	77.1	0.19	0.02	1.70	28.11	gravelly sand to sand	67
8.20	-7.24	40.01	40.03	236.7	0.59	77.0	0.19	0.01	1.74	28.17	gravelly sand to sand	67
8.25	-7.29	39.47	39.49	212.6	0.54	79.7	0.20	0.02	1.74	28.51	gravelly sand to sand	65
8.30	-7.34	37.82	37.84	190.8	0.50	82.9	0.22	0.03	1.74	28.66	gravelly sand to sand	62
8.35	-7.39	33.95	33.96	196.0	0.58	74.0	0.22	0.00	1.74	28.66	gravelly sand to sand	58
8.40	-7.44	33.33	33.35	192.0	0.58	77.4	0.23	0.01	1.78	25.33	gravelly sand to sand	55
8.45	-7.49	32.09	32.11	153.1	0.48	77.6	0.24	0.01	1.78	25.42	gravelly sand to sand	53
8.50	-7.54	30.34	30.36	125.0	0.41	76.5	0.25	0.01	1.79	25.24	gravelly sand to sand	49
8.55	-7.59	26.10	26.11	123.5	0.47	68.9	0.26	-0.02	1.83	22.31	gravelly sand to sand	46
8.60	-7.64	26.30	26.31	124.7	0.47	72.2	0.27	-0.01	1.83	22.31	gravelly sand to sand	44
8.65	-7.69	26.11	26.13	44.8	0.17	75.0	0.29	-0.00	1.83	22.31	gravelly sand to sand	43
8.70	-7.74	24.51	24.52	49.0	0.20	75.0	0.31	-0.00	1.83	22.31	gravelly sand to sand	39
8.75	-7.79	19.97	19.99	52.3	0.26	77.6	0.39	0.01	2.19	22.31	gravelly sand to sand	36
8.80	-7.84	20.11	20.13	54.1	0.27	78.0	0.39	0.01	2.20	22.31	sand	40
8.85	-7.89	19.82	19.84	54.1	0.27	79.0	0.40	0.01	2.20	22.31	sand	40
8.90	-7.94	19.72	19.74	55.3	0.28	79.8	0.40	0.01	2.21	22.31	sand	39
8.95	-7.99	18.88	18.90	52.5	0.28	78.4	0.42	0.00	2.21	22.31	sand	38
9.00	-8.04	18.43	18.45	49.4	0.27	79.8	0.43	0.01	2.21	22.31	sand	37
9.05	-8.09	18.36	18.38	44.9	0.24	80.0	0.44	0.00	2.22	22.43	sand	37
9.10	-8.14	18.13	18.15	39.7	0.22	79.8	0.44	-0.00	2.22	22.65	sand	36
9.15	-8.19	17.96	17.98	38.9	0.22	80.9	0.45	0.00	2.23	22.80	sand	36
9.20	-8.24	18.13	18.15	48.9	0.27	81.4	0.45	0.00	2.23	22.80	sand	36
9.25	-8.29	18.15	18.17	40.3	0.22	82.1	0.45	0.00	2.23	22.80	sand	35
9.30	-8.34	16.23	16.25	40.0	0.25	80.8	0.50	-0.01	2.47	24.20	sand	35
9.35	-8.39	17.81	17.83	42.9	0.24	84.3	0.47	0.01	2.46	24.20	sand	35
9.40	-8.44	18.49	18.51	46.2	0.25	86.4	0.47	0.02	2.46	24.17	sand	37
9.45	-8.49	19.14	19.16	45.5	0.24	86.5	0.45	0.02	2.46	24.17	sand	38
9.50	-8.54	19.79	19.81	44.7	0.23	87.2	0.44	0.02	2.46	24.17	sand	39

Soil interpretation reference: Robertson & Campanella-1983, based on 60% hammer efficiency and .15 m sliding data average

Table I.2 continued

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DEPTH m	ELEV m	TIP Qc MPa	COR TIP Qt MPa	FRICTION Fs kPa	FR RATIO Fs/Qc %	PORE PR Pw kPa	PP RATIO Pw/Qc %	DPP RATIO Pw-Ph/Qc %	INC I deg	TEMP T degC	INTERPRETED SOIL TYPE	N SPT
9.55	-8.59	20.18	20.20	42.9	0.21	88.7	0.44	0.02	2.46	24.26	gravelly sand to sand	34
9.60	-8.64	21.07	21.09	42.3	0.20	88.8	0.42	0.02	2.46	24.26	gravelly sand to sand	35
9.65	-8.69	21.85	21.87	48.1	0.22	89.8	0.41	0.02	2.46	24.26	gravelly sand to sand	37
9.70	-8.74	22.85	22.87	53.5	0.23	90.6	0.40	0.02	2.46	24.26	gravelly sand to sand	37
9.75	-8.79	22.60	22.62	54.6	0.24	91.0	0.40	0.02	2.46	24.29	gravelly sand to sand	38
9.80	-8.84	22.22	22.24	55.5	0.25	91.2	0.41	0.02	2.46	24.63	gravelly sand to sand	37
9.85	-8.89	22.51	22.53	56.1	0.25	92.0	0.41	0.02	2.46	24.75	gravelly sand to sand	38
9.90	-8.94	22.84	22.86	58.9	0.26	92.9	0.41	0.02	2.46	24.75	gravelly sand to sand	38
9.95	-8.99	23.32	23.34	62.5	0.27	92.6	0.40	0.02	2.46	24.81	gravelly sand to sand	39
10.00	-9.04	23.58	23.60	64.8	0.27	93.1	0.39	0.02	2.46	25.00	gravelly sand to sand	39
10.05	-9.09	23.81	23.83	68.9	0.29	93.3	0.39	0.02	2.46	25.24	gravelly sand to sand	40
10.10	-9.14	24.42	24.44	74.9	0.31	93.6	0.38	0.02	2.46	25.24	gravelly sand to sand	41
10.15	-9.19	25.39	25.41	84.1	0.33	94.3	0.37	0.02	2.46	25.36	gravelly sand to sand	42
10.20	-9.24	26.58	26.60	78.4	0.29	94.3	0.35	0.01	2.46	25.73	gravelly sand to sand	43
10.25	-9.29	26.29	26.31	80.8	0.31	94.5	0.36	0.01	2.46	25.73	gravelly sand to sand	44
10.30	-9.34	26.15	26.17	80.9	0.31	95.5	0.37	0.01	2.46	25.73	gravelly sand to sand	43
10.35	-9.39	25.83	25.85	84.7	0.33	92.3	0.36	0.00	2.44	24.26	gravelly sand to sand	44
10.40	-9.44	26.68	26.70	91.1	0.34	93.6	0.35	0.00	2.44	24.26	gravelly sand to sand	44
10.45	-9.49	27.45	27.47	91.5	0.33	95.4	0.35	0.01	2.44	24.26	gravelly sand to sand	45
10.50	-9.54	27.48	27.50	90.6	0.33	95.8	0.35	0.01	2.44	24.26	gravelly sand to sand	46
10.55	-9.59	28.12	28.14	92.0	0.33	96.8	0.34	0.01	2.44	24.26	gravelly sand to sand	47
10.60	-9.64	29.22	29.24	98.1	0.34	97.8	0.33	0.01	2.44	24.26	gravelly sand to sand	49
10.65	-9.69	30.20	30.22	107.3	0.36	97.9	0.32	0.01	2.44	24.26	gravelly sand to sand	50
10.70	-9.74	30.67	30.69	110.0	0.36	98.3	0.32	0.01	2.44	24.48	gravelly sand to sand	50
10.75	-9.79	29.78	29.80	107.9	0.36	99.5	0.33	0.01	2.44	24.75	gravelly sand to sand	50
10.80	-9.84	29.29	29.31	105.6	0.36	99.7	0.34	0.01	2.44	24.75	gravelly sand to sand	49
10.85	-9.89	28.68	28.70	103.5	0.36	100.0	0.35	0.01	2.44	24.75	gravelly sand to sand	48
10.90	-9.94	28.46	28.48	96.3	0.34	100.0	0.35	0.01	2.44	25.24	gravelly sand to sand	48
10.95	-9.99	28.64	28.66	91.8	0.32	100.3	0.35	0.01	2.44	25.24	gravelly sand to sand	48
11.00	-10.04	29.48	29.50	100.4	0.34	101.1	0.34	0.01	2.44	25.58	gravelly sand to sand	49
11.05	-10.09	30.46	30.48	106.2	0.35	101.3	0.33	0.01	2.44	25.73	gravelly sand to sand	51
11.10	-10.14	31.07	31.09	109.5	0.35	102.0	0.33	0.01	2.44	25.79	gravelly sand to sand	52
11.15	-10.19	32.44	32.46	110.0	0.34	102.1	0.31	0.01	2.44	26.22	gravelly sand to sand	54
11.20	-10.24	33.15	33.17	118.2	0.36	102.3	0.31	0.01	2.44	26.28	gravelly sand to sand	56
11.25	-10.29	34.63	34.65	126.0	0.36	104.5	0.30	0.01	2.43	26.70	gravelly sand to sand	58
11.30	-10.34	36.45	36.47	141.9	0.39	104.5	0.29	0.01	2.43	26.70	gravelly sand to sand	59
11.35	-10.39	35.16	35.18	136.7	0.39	109.4	0.31	0.02	2.40	26.77	gravelly sand to sand	60
11.40	-10.44	36.21	36.23	154.9	0.43	111.7	0.31	0.03	2.40	26.77	gravelly sand to sand	61
11.45	-10.49	37.63	37.65	180.9	0.48	113.5	0.30	0.03	2.40	26.74	gravelly sand to sand	61
11.50	-10.54	35.58	35.60	191.3	0.54	115.0	0.32	0.03	2.40	26.74	gravelly sand to sand	59
11.55	-10.59	33.39	33.41	176.6	0.53	114.2	0.34	0.03	2.40	26.83	gravelly sand to sand	56
11.60	-10.64	32.70	32.72	163.7	0.50	114.2	0.35	0.03	2.40	27.07	gravelly sand to sand	55
11.65	-10.69	32.88	32.90	151.7	0.46	114.2	0.35	0.03	2.40	27.19	gravelly sand to sand	55
11.70	-10.74	33.11	33.13	149.0	0.45	111.7	0.34	0.02	2.43	27.19	gravelly sand to sand	55
11.75	-10.79	32.28	32.30	139.1	0.43	114.0	0.35	0.03	2.43	27.41	gravelly sand to sand	54
11.80	-10.84	31.23	31.25	122.7	0.39	113.5	0.36	0.02	2.43	27.68	gravelly sand to sand	53
11.85	-10.89	31.91	31.93	111.5	0.35	113.9	0.36	0.02	2.43	27.68	gravelly sand to sand	54
11.90	-10.94	33.93	33.95	126.3	0.37	115.3	0.34	0.02	2.43	27.89	gravelly sand to sand	57
11.95	-10.99	36.86	36.88	151.3	0.41	115.7	0.31	0.02	2.43	28.17	gravelly sand to sand	60
12.00	-11.04	37.59	37.61	157.7	0.42	113.8	0.30	0.01	2.43	28.17	gravelly sand to sand	63

Soil interpretation reference: Robertson & Campanella-1983, based on 60% hammer efficiency and .15 m sliding data average

Table I.2 continued

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DEPTH m	ELEV m	TIP Qc MPa	COR TIP Qt MPa	FRICTION Fs kPa	FR RATIO Fs/Qc %	PORE PR Pw kPa	PP RATIO Pw/Qc %	DPP RATIO Pw-Ph/Qc %	INC I deg	TEMP T degC	INTERPRETED SOIL TYPE	N SPT
12.05	-11.09	38.60	38.62	168.7	0.44	115.0	0.30	0.02	2.43	28.66	gravelly sand to sand	64
12.10	-11.14	39.60	39.62	174.8	0.44	115.4	0.29	0.02	2.43	28.66	gravelly sand to sand	65
12.15	-11.19	39.29	39.31	172.8	0.44	117.8	0.30	0.02	2.72	28.96	gravelly sand to sand	66
12.20	-11.24	39.03	39.05	134.7	0.35	117.7	0.30	0.02	2.72	29.15	gravelly sand to sand	65
12.25	-11.29	37.92	37.94	155.5	0.41	117.8	0.31	0.02	2.72	29.21	gravelly sand to sand	62
12.30	-11.34	34.03	34.05	139.5	0.41	120.5	0.35	0.03	2.72	29.63	?	?

Soil interpretation reference: Robertson & Campanella-1983, based on 60% hammer efficiency and .15 m sliding data average

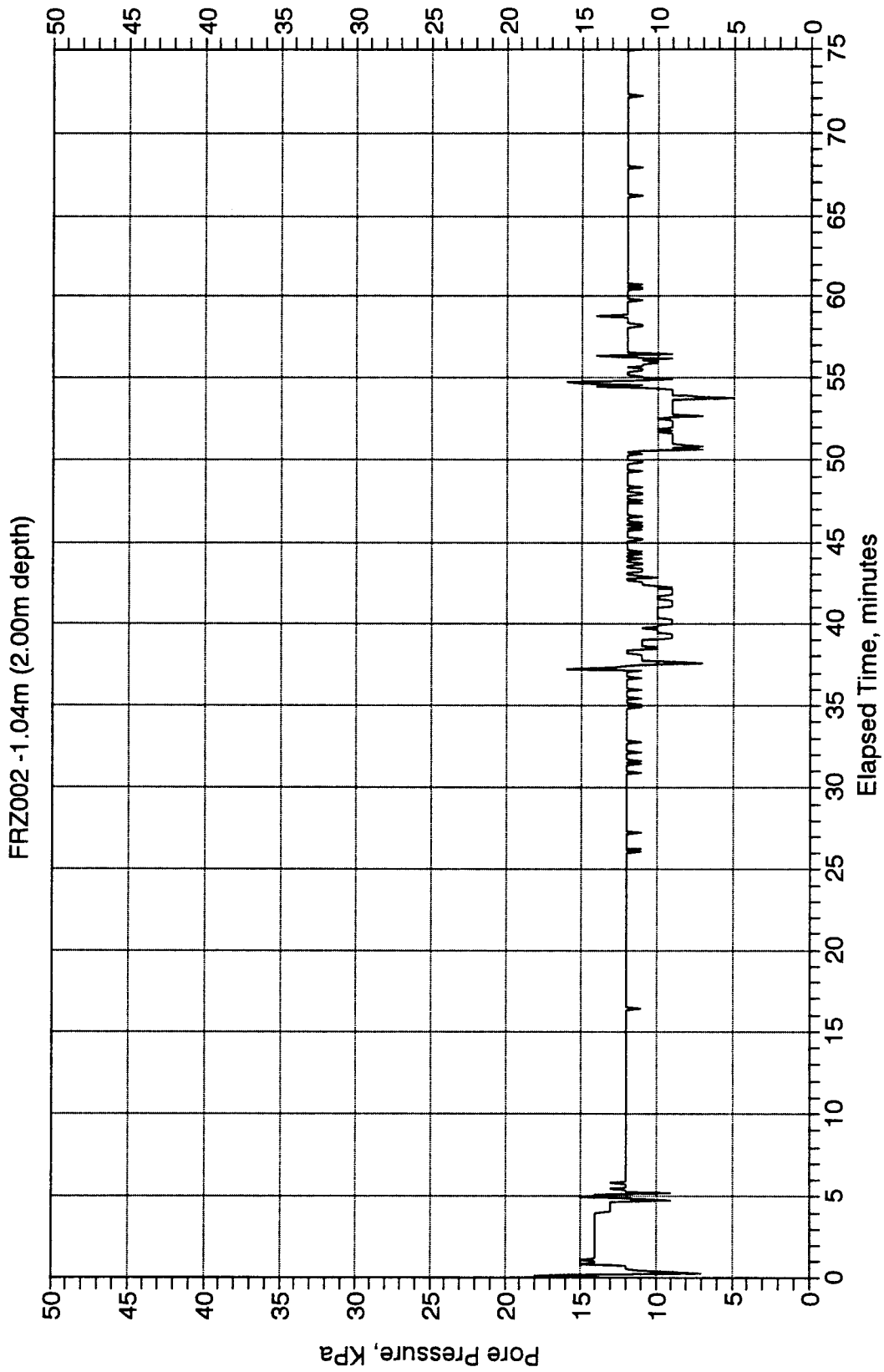

Figure I.4 FRZ002 Pore Pressure at Elev. -1.04 m

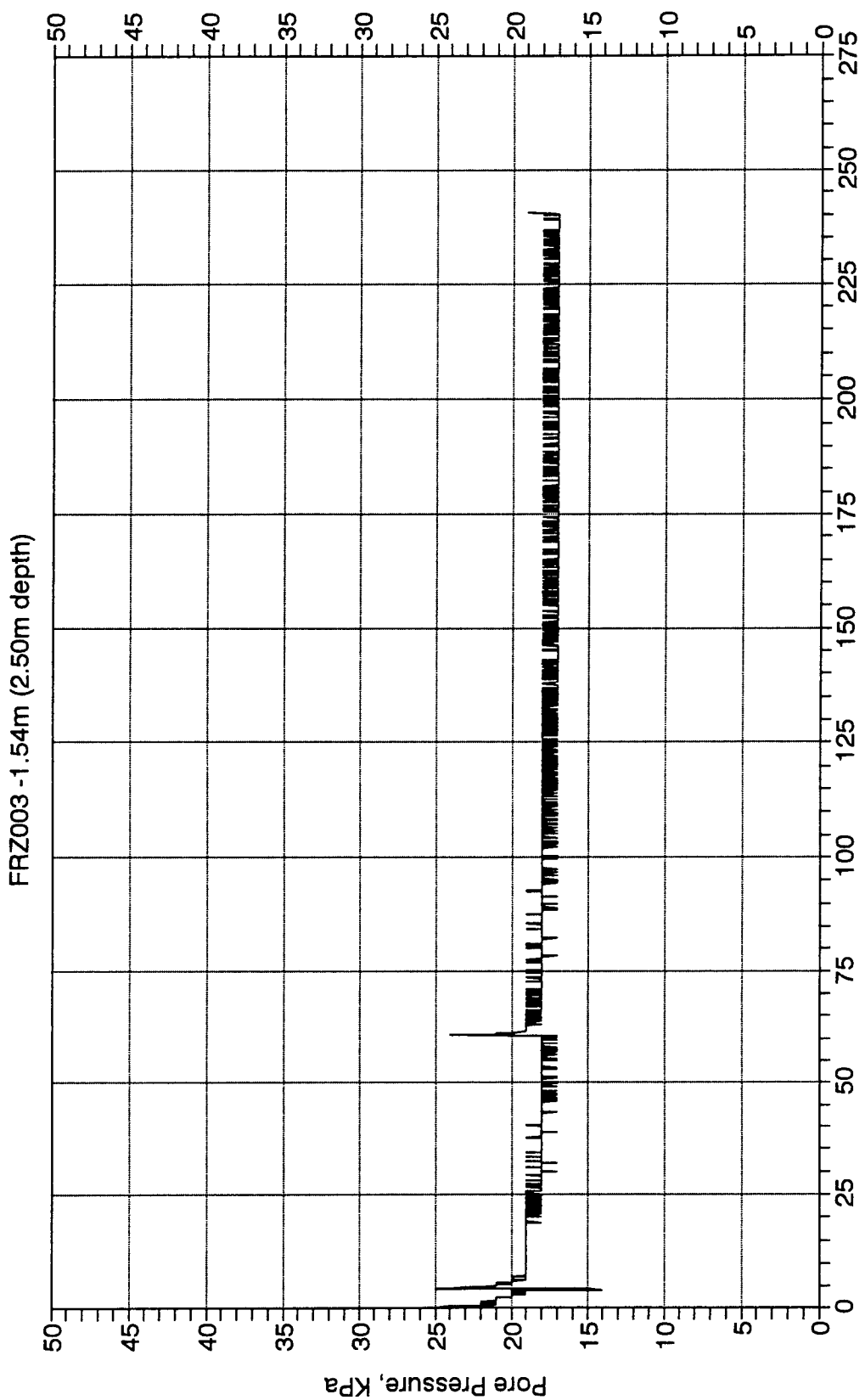

Figure I.5 FRZ003 Pore Pressure at Elev. -1.54 m

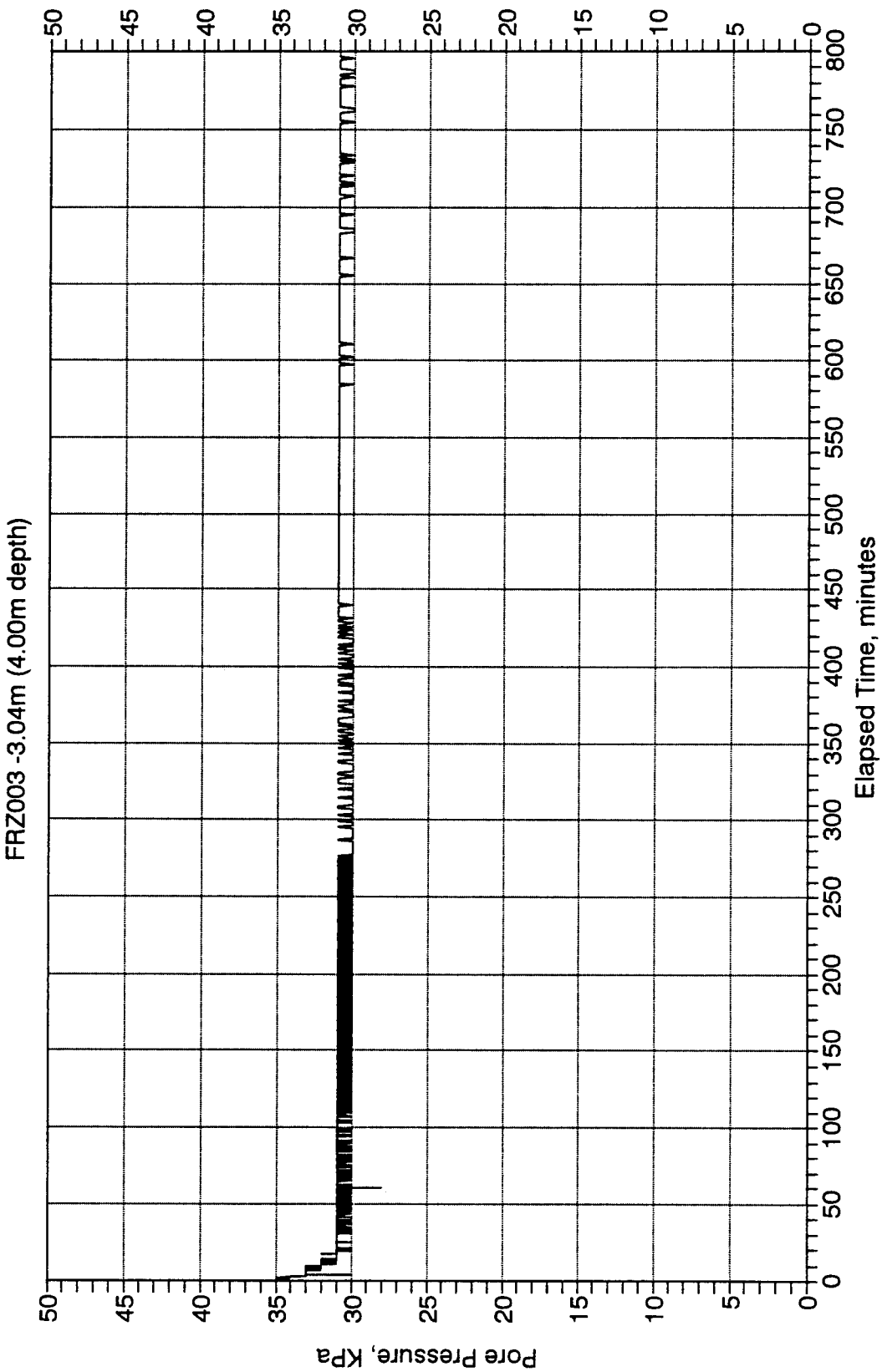

Figure I.6 FRZ003 Pore Pressure at Elev. -3.04 m

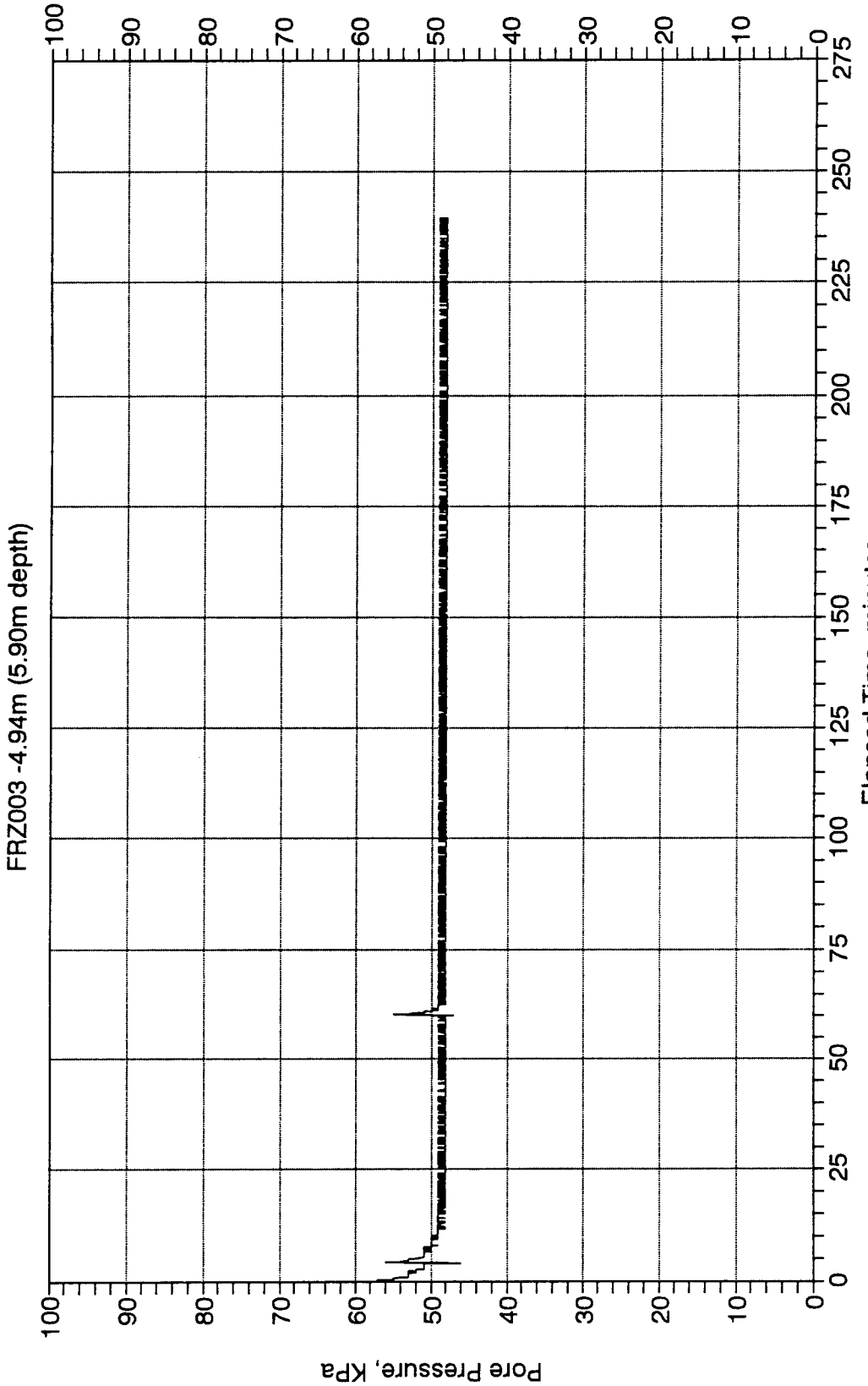

Figure I.7 FRZ003 Pore Pressure at Elev. -4.94 m

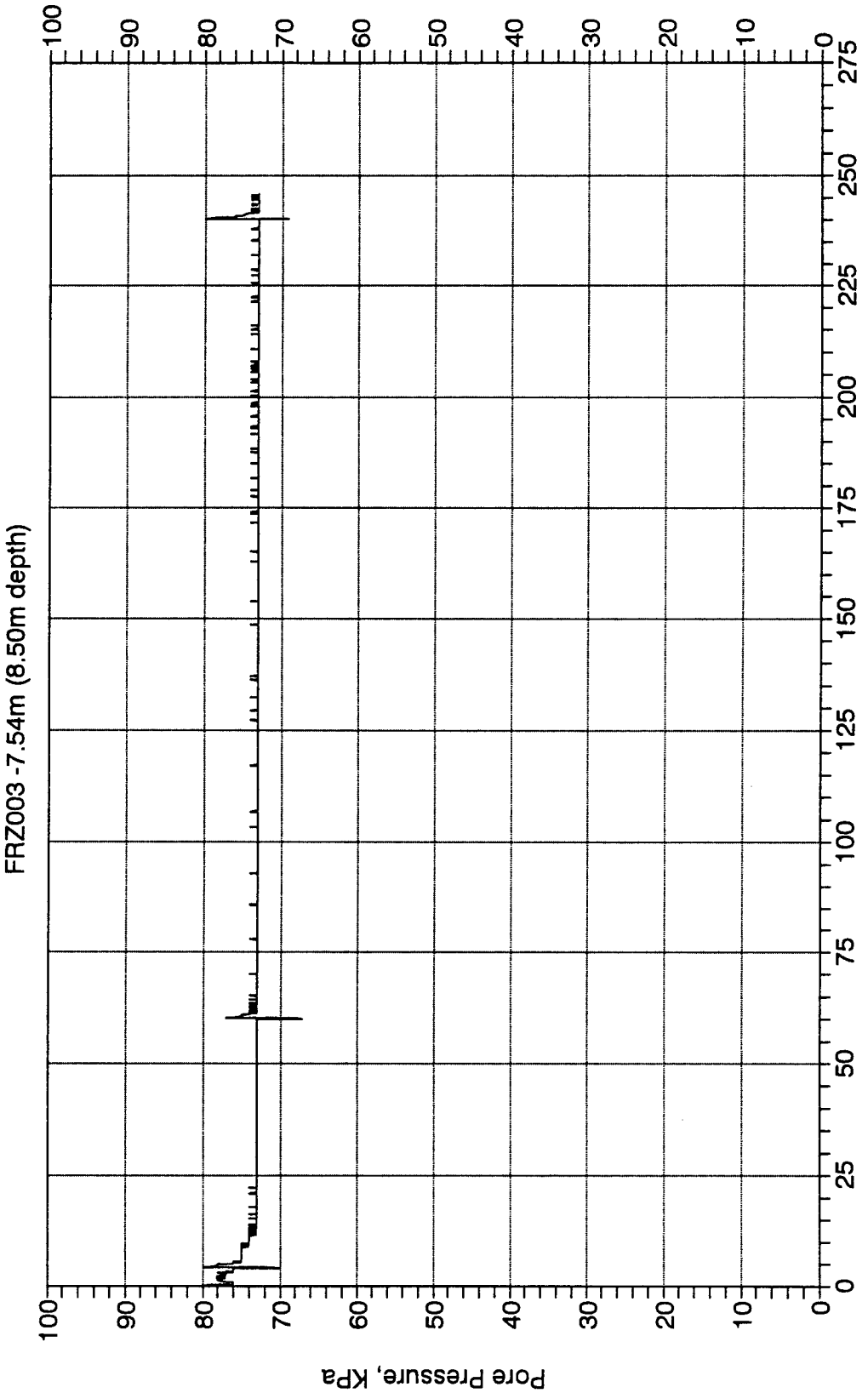

Figure I.8 FRZ003 Pore Pressure at Elev. -7.54 m

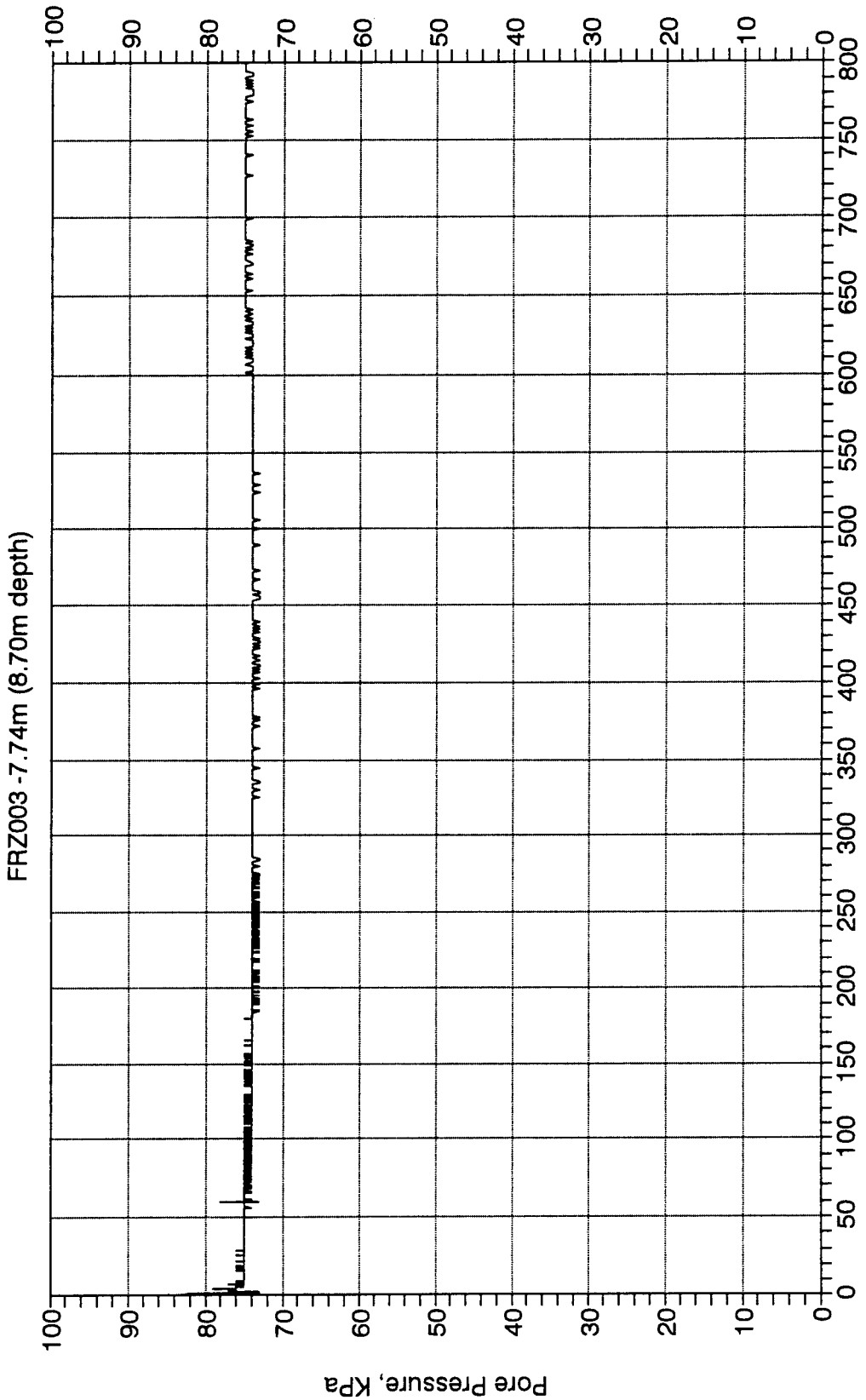

Figure I.9 FRZ003 Pore Pressure at Elev. -7.74 m

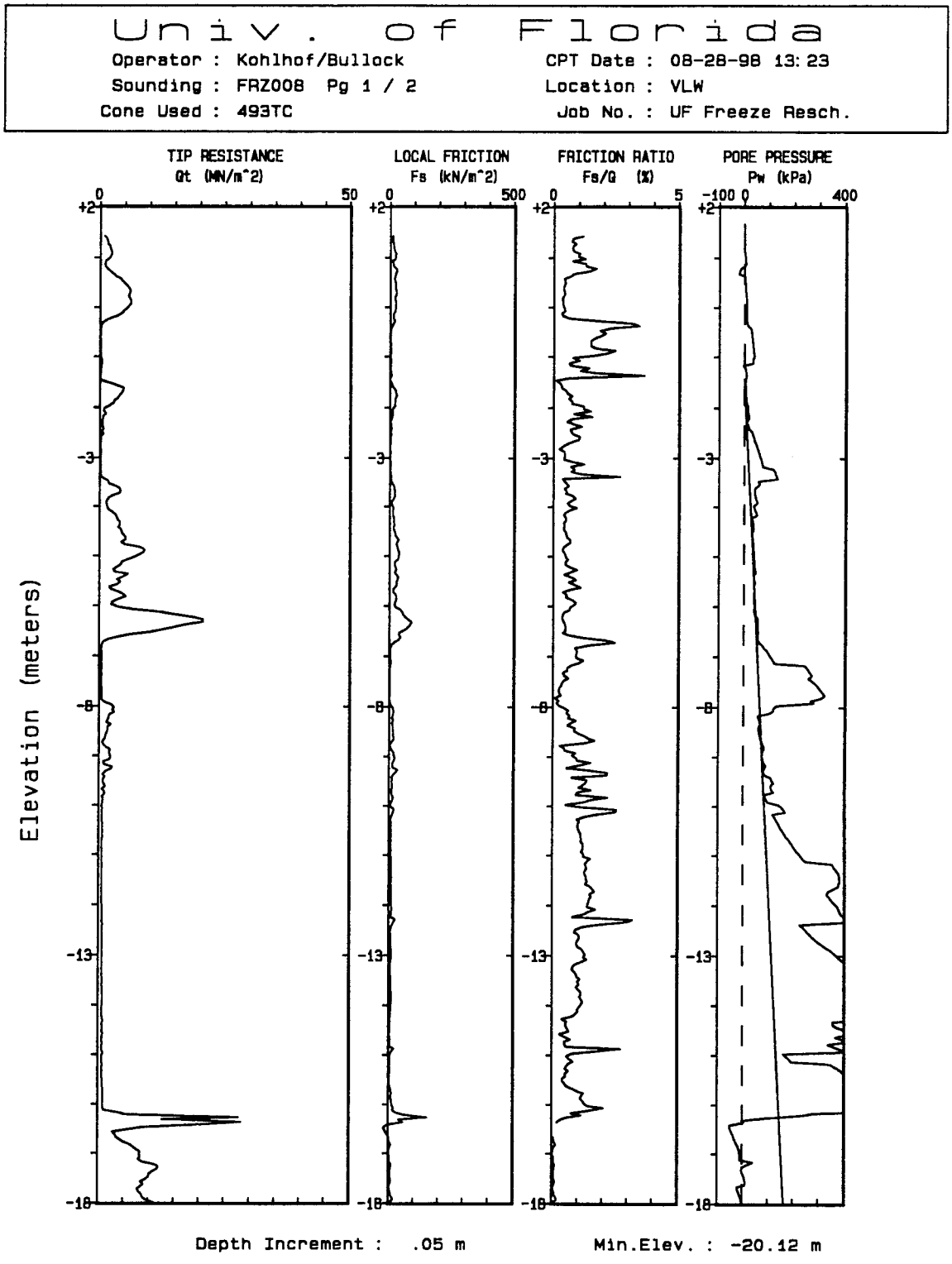

Figure I.10 CPT Sounding Profile at FRZ008

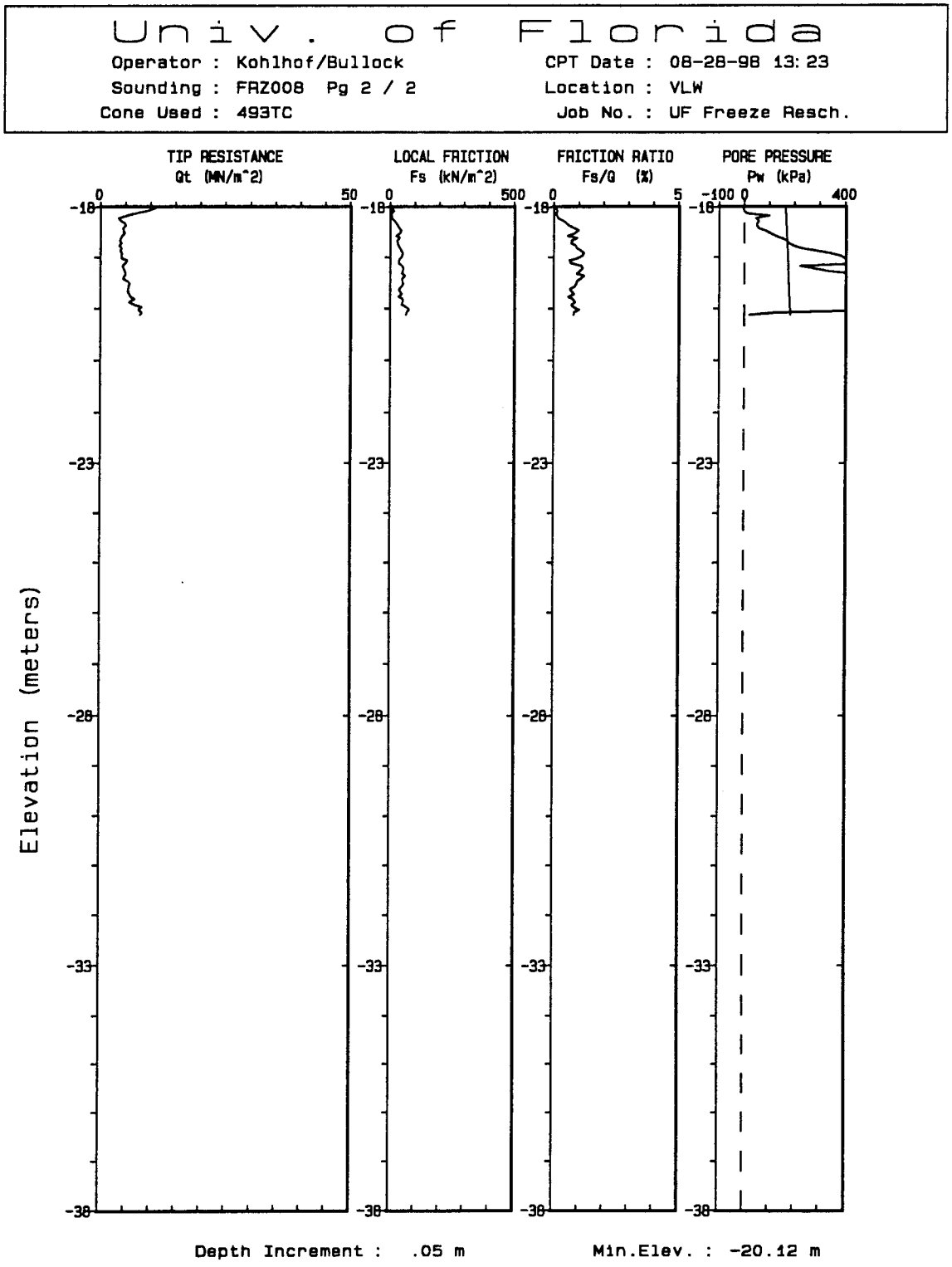

Figure I.10 continued

Table I.3 CPT Sounding FRZ008

SOUNDING DATA IN FILE FRZ008 08-28-98 13:23

OPERATOR : Kohlhof/Bullock LOCATION : VLW

CONE ID : 493TC JOB No. : UF Freeze Resch.

University of Florida
Geotechnical Engineering

DEPTH m	ELEV m	TIP Qc MPa	COR TIP Qt MPa	FRICTION Fs kPa	FR RATIO Fs/Qc %	PORE PR Pw kPa	PP RATIO Pw/Qc %	DPP RATIO Pw-Ph/Qc %	INC I deg	TEMP T degC	INTERPRETED SOIL TYPE	N SPT
0.05	1.43	0.93	0.93	10.8	1.16	0.0	0.00	0.00	0.03	34.97	?	?
0.10	1.38	1.33	1.33	10.2	0.77	-0.3	-0.02	-0.02	0.06	35.01	sandy silt to clayey silt	5
0.15	1.33	1.59	1.59	11.4	0.72	-0.1	-0.01	-0.01	0.03	34.97	sandy silt to clayey silt	6
0.20	1.28	1.52	1.52	13.3	0.87	0.0	0.00	0.00	0.03	35.01	sandy silt to clayey silt	7
0.25	1.23	1.95	1.95	14.7	0.75	0.0	0.00	0.00	0.03	34.97	sandy silt to clayey silt	7
0.30	1.18	2.10	2.10	15.3	0.73	-1.0	-0.05	-0.05	0.03	35.01	sandy silt to clayey silt	8
0.35	1.13	2.23	2.23	17.9	0.80	0.3	0.01	0.01	0.03	34.94	sandy silt to clayey silt	9
0.40	1.08	2.37	2.37	24.4	1.03	1.1	0.05	0.05	0.03	34.76	sandy silt to clayey silt	9
0.45	1.03	2.13	2.13	20.6	0.97	1.1	0.05	0.05	0.03	34.55	sandy silt to clayey silt	8
0.50	0.98	1.70	1.70	21.1	1.24	4.5	0.26	0.26	0.03	34.52	sandy silt to clayey silt	7
0.55	0.93	1.11	1.11	8.5	0.77	2.1	0.19	0.19	0.03	34.52	sandy silt to clayey silt	5
0.60	0.88	0.98	0.98	12.4	1.27	6.7	0.68	0.68	0.03	34.06	clayey silt to silty clay	5
0.65	0.83	0.98	0.98	12.8	1.31	-1.1	-0.11	-0.11	0.02	30.61	clayey silt to silty clay	6
0.70	0.78	1.45	1.45	24.3	1.68	-15.6	-1.08	-1.08	0.03	30.61	sandy silt to clayey silt	6
0.75	0.73	1.90	1.90	27.2	1.43	-18.0	-0.95	-0.95	0.03	30.61	sandy silt to clayey silt	8
0.80	0.68	2.69	2.69	21.1	0.78	-20.5	-0.76	-0.76	0.02	30.58	silty sand to sandy silt	9
0.85	0.63	3.14	3.14	21.9	0.70	2.1	0.07	0.07	0.02	30.34	silty sand to sandy silt	11
0.90	0.58	4.13	4.13	16.8	0.41	2.1	0.05	0.05	0.02	30.28	silty sand to sandy silt	13
0.95	0.53	4.46	4.46	19.9	0.45	2.4	0.05	0.05	0.02	30.12	sand to silty sand	11
1.00	0.48	4.97	4.97	22.5	0.45	3.6	0.07	0.07	0.02	30.12	sand to silty sand	12
1.05	0.43	5.49	5.49	21.8	0.40	4.5	0.08	0.08	0.02	30.12	sand to silty sand	14
1.10	0.38	5.91	5.91	22.1	0.37	4.5	0.08	0.08	0.02	30.12	sand to silty sand	15
1.15	0.33	6.10	6.10	25.2	0.41	5.0	0.08	0.08	0.02	30.09	sand to silty sand	15
1.20	0.28	5.88	5.88	25.7	0.44	6.6	0.11	0.11	0.02	29.79	sand to silty sand	15
1.25	0.23	5.64	5.64	21.1	0.37	7.0	0.12	0.12	0.02	29.66	sand to silty sand	14
1.30	0.18	5.88	5.88	20.0	0.34	8.0	0.14	0.14	0.02	29.63	sand to silty sand	15
1.35	0.13	6.20	6.20	22.4	0.36	8.0	0.13	0.13	0.02	29.63	sand to silty sand	15
1.40	0.08	6.23	6.23	22.5	0.36	8.1	0.13	0.13	0.02	29.63	sand to silty sand	15
1.45	0.03	5.80	5.80	21.8	0.38	8.6	0.15	0.15	0.02	29.63	sand to silty sand	14
1.50	-0.02	5.31	5.31	21.8	0.41	9.0	0.17	0.17	0.02	29.57	sand to silty sand	13
1.55	-0.07	4.71	4.71	20.6	0.44	9.0	0.19	0.18	0.02	29.54	sand to silty sand	12
1.60	-0.12	4.45	4.45	14.0	0.31	9.1	0.20	0.18	0.02	29.51	sand to silty sand	11
1.65	-0.17	3.52	3.52	12.8	0.36	9.5	0.27	0.22	0.02	29.27	silty sand to sandy silt	11
1.70	-0.22	2.04	2.04	13.4	0.66	9.0	0.44	0.34	0.02	28.66	silty sand to sandy silt	7
1.75	-0.27	1.06	1.06	18.0	1.70	9.7	0.92	0.67	0.02	28.66	clayey silt to silty clay	6
1.80	-0.32	0.48	0.48	15.2	3.17	11.4	2.38	1.72	0.02	28.66	silty clay to clay	4
1.85	-0.37	0.27	0.27	9.3	3.44	14.3	5.30	3.95	0.02	28.66	clay	3
1.90	-0.42	0.15	0.15	3.6	2.40	24.7	16.47	13.72	0.02	28.66	clay	2
1.95	-0.47	0.15	0.16	2.9	1.93	26.9	17.93	14.86	0.02	28.63	sensitive fine grained	1
2.00	-0.52	0.14	0.15	3.0	2.14	28.5	20.36	16.71	0.02	28.66	sensitive fine grained	1

Soil interpretation reference: Robertson & Campanella-1983, based on 60% hammer efficiency and .15 m sliding data average

Table I.3 continued

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DEPTH m	ELEV m	TIP Qc MPa	COR TIP Qt MPa	FRICTION Fs kPa	FR RATIO Fs/Qc %	PORE PR Pw kPa	PP RATIO Pw/Qc %	DPP RATIO Pw-Ph/Qc %	INC I deg	TEMP T degC	INTERPRETED SOIL TYPE	N SPT
2.05	-0.57	0.15	0.16	3.0	2.00	29.2	19.47	15.74	0.02	28.66	sensitive fine grained	1
2.10	-0.62	0.14	0.15	2.4	1.71	31.4	22.43	18.09	0.02	28.63	sensitive fine grained	1
2.15	-0.67	0.15	0.16	2.3	1.53	31.4	20.93	16.55	0.02	28.63	sensitive fine grained	1
2.20	-0.72	0.15	0.16	2.3	1.53	33.7	22.47	17.76	0.02	28.63	sensitive fine grained	1
2.25	-0.77	0.15	0.16	2.3	1.53	34.2	22.80	17.77	0.02	28.51	sensitive fine grained	1
2.30	-0.82	0.15	0.16	2.6	1.73	35.8	23.87	18.51	0.02	28.47	sensitive fine grained	1
2.35	-0.87	0.14	0.15	3.6	2.57	36.8	26.29	20.19	0.02	28.29	sensitive fine grained	1
2.40	-0.92	0.14	0.15	3.2	2.29	38.2	27.29	20.84	0.02	28.26	sensitive fine grained	1
2.45	-0.97	0.17	0.18	2.9	1.71	39.7	23.35	17.76	0.02	28.17	sensitive fine grained	1
2.50	-1.02	0.29	0.30	2.3	0.79	35.9	12.38	8.93	0.02	28.17	sensitive fine grained	1
2.55	-1.07	0.44	0.45	4.6	1.05	34.8	7.91	5.52	0.02	28.17	sensitive fine grained	2
2.60	-1.12	0.48	0.49	3.1	0.65	34.2	7.13	4.84	0.02	28.17	sensitive fine grained	2
2.65	-1.17	0.42	0.42	2.8	0.67	-3.5	-0.83	-3.57	0.02	26.70	sensitive fine grained	2
2.70	-1.22	0.21	0.21	3.0	1.43	4.5	2.14	-3.55	0.02	26.70	sensitive fine grained	2
2.75	-1.27	0.28	0.28	3.0	1.07	6.7	2.39	-2.06	0.02	26.70	sensitive fine grained	1
2.80	-1.32	0.14	0.14	2.3	1.64	7.4	5.29	-3.96	0.02	26.70	sensitive fine grained	1
2.85	-1.37	0.15	0.15	5.5	3.67	9.0	6.00	-2.96	0.02	26.70	sensitive fine grained	1
2.90	-1.42	0.14	0.14	0.8	0.57	5.3	3.79	-6.16	0.02	26.70	sensitive fine grained	1
2.95	-1.47	0.31	0.31	0.3	0.10	4.1	1.32	-3.33	0.02	26.70	sensitive fine grained	4
3.00	-1.52	2.04	2.04	4.9	0.24	3.1	0.15	-0.58	0.02	26.70	silty sand to sandy silt	7
3.05	-1.57	3.60	3.60	10.9	0.30	4.5	0.13	-0.30	0.02	26.67	silty sand to sandy silt	11
3.10	-1.62	4.66	4.66	15.3	0.33	5.5	0.12	-0.22	0.02	26.70	sand to silty sand	11
3.15	-1.67	4.70	4.70	23.8	0.51	6.7	0.14	-0.21	0.02	26.61	sand to silty sand	11
3.20	-1.72	4.25	4.25	23.1	0.54	7.0	0.16	-0.23	0.02	26.49	silty sand to sandy silt	14
3.25	-1.77	3.91	3.91	28.4	0.73	7.3	0.19	-0.26	0.02	26.46	silty sand to sandy silt	13
3.30	-1.82	3.60	3.60	21.8	0.61	8.7	0.24	-0.25	0.02	26.28	silty sand to sandy silt	12
3.35	-1.87	2.95	2.95	21.8	0.74	9.0	0.31	-0.32	0.02	26.34	silty sand to sandy silt	10
3.40	-1.92	2.64	2.64	19.1	0.72	11.1	0.42	-0.29	0.02	26.22	silty sand to sandy silt	8
3.45	-1.97	1.80	1.80	21.8	1.21	13.6	0.76	-0.32	0.02	26.22	sandy silt to clayey silt	7
3.50	-2.02	0.90	0.90	10.9	1.21	14.2	1.58	-0.62	0.02	26.25	clayey silt to silty clay	6
3.55	-2.07	0.77	0.77	11.4	1.48	13.0	1.69	-0.95	0.02	26.22	clayey silt to silty clay	5
3.60	-2.12	1.32	1.32	10.8	0.82	16.4	1.24	-0.33	0.02	26.22	clayey silt to silty clay	5
3.65	-2.17	0.73	0.73	11.3	1.55	18.2	2.49	-0.42	0.02	26.22	clayey silt to silty clay	5
3.70	-2.22	0.74	0.74	5.5	0.74	16.3	2.20	-0.74	0.01	25.21	sensitive fine grained	3
3.75	-2.27	0.62	0.62	3.4	0.55	9.3	1.50	-2.09	0.01	25.24	sensitive fine grained	3
3.80	-2.32	0.58	0.58	4.9	0.84	13.9	2.40	-1.53	0.01	25.24	sensitive fine grained	3
3.85	-2.37	0.61	0.61	6.9	1.13	17.1	2.80	-1.01	0.01	25.21	sensitive fine grained	3
3.90	-2.42	0.82	0.82	5.6	0.68	20.2	2.46	-0.43	0.01	25.18	sensitive fine grained	3
3.95	-2.47	0.41	0.42	3.0	0.73	31.4	7.66	1.75	0.01	25.24	sensitive fine grained	3
4.00	-2.52	0.80	0.81	6.2	0.77	33.1	4.14	1.05	0.01	25.18	sensitive fine grained	2
4.05	-2.57	0.28	0.29	3.0	1.07	37.7	13.46	4.46	0.01	25.24	sensitive fine grained	2
4.10	-2.62	0.29	0.30	3.0	1.03	39.8	13.72	4.86	0.01	25.27	sensitive fine grained	1
4.15	-2.67	0.22	0.23	1.7	0.77	42.6	19.36	7.46	0.01	25.18	sensitive fine grained	1
4.20	-2.72	0.19	0.20	1.0	0.53	49.4	26.00	11.96	0.01	25.12	sensitive fine grained	1
4.25	-2.77	0.17	0.18	0.6	0.35	51.8	30.47	14.49	0.01	25.00	sensitive fine grained	1
4.30	-2.82	0.21	0.22	0.5	0.24	54.1	25.76	12.59	0.01	24.93	sensitive fine grained	1
4.35	-2.87	0.22	0.23	1.0	0.45	58.2	26.45	13.66	0.01	24.87	sensitive fine grained	1
4.40	-2.92	0.22	0.23	1.0	0.45	60.6	27.55	14.53	0.01	24.81	sensitive fine grained	1
4.45	-2.97	0.22	0.23	1.0	0.45	64.2	29.18	15.94	0.01	24.75	sensitive fine grained	1
4.50	-3.02	0.23	0.24	1.0	0.43	67.3	29.26	16.38	0.01	24.75	sensitive fine grained	1

Soil interpretation reference: Robertson & Campanella-1983, based on 60% hammer efficiency and .15 m sliding data average

Table I.3 continued

FRZ008 : VLW : 08-28-98 13:23 PAGE 3

DEPTH m	ELEV m	TIP Qc MPa	COR TIP Qt MPa	FRICTION Fs kPa	FR RATIO Fs/Qc %	PORE PR Pw kPa	PP RATIO Pw/Qc %	DPP RATIO Pw-Ph/Qc %	INC I deg	TEMP T degC	INTERPRETED SOIL TYPE	N SPT
4.55	-3.07	0.24	0.25	2.0	0.83	69.7	29.04	16.50	0.01	24.75	sensitive fine grained	1
4.60	-3.12	0.28	0.29	3.6	1.29	72.4	25.86	14.93	0.01	24.75	sensitive fine grained	1
4.65	-3.17	0.29	0.30	2.1	0.72	74.3	25.62	14.90	0.01	24.75	sensitive fine grained	1
4.70	-3.22	0.25	0.27	2.3	0.92	116.0	46.40	33.77	0.03	24.23	sensitive fine grained	1
4.75	-3.27	0.24	0.26	1.9	0.79	122.0	50.83	37.47	0.03	24.26	sensitive fine grained	1
4.80	-3.32	0.25	0.28	3.0	1.20	125.3	50.12	37.10	0.03	24.26	sensitive fine grained	1
4.85	-3.37	0.23	0.26	6.8	2.96	130.0	56.52	42.15	0.03	24.26	sensitive fine grained	2
4.90	-3.42	0.80	0.83	3.1	0.39	133.5	16.69	12.50	0.03	24.26	sandy silt to clayey silt	4
4.95	-3.47	1.69	1.70	7.4	0.44	56.4	3.34	1.32	0.03	24.23	sandy silt to clayey silt	6
5.00	-3.52	1.86	1.87	10.2	0.55	61.0	3.28	1.42	0.03	24.17	silty sand to sandy silt	7
5.05	-3.57	2.90	2.91	17.4	0.60	53.9	1.86	0.65	0.03	24.08	silty sand to sandy silt	10
5.10	-3.62	3.99	4.00	17.9	0.45	42.5	1.07	0.18	0.03	24.20	silty sand to sandy silt	12
5.15	-3.67	4.19	4.20	22.3	0.53	42.6	1.02	0.16	0.03	24.05	silty sand to sandy silt	14
5.20	-3.72	4.03	4.04	20.0	0.50	42.8	1.06	0.16	0.03	24.11	silty sand to sandy silt	12
5.25	-3.77	2.75	2.76	21.3	0.77	44.9	1.63	0.29	0.03	23.93	silty sand to sandy silt	10
5.30	-3.82	1.84	1.85	16.3	0.89	47.0	2.55	0.52	0.03	23.84	sandy silt to clayey silt	8
5.35	-3.87	1.57	1.58	11.5	0.73	50.2	3.20	0.78	0.03	23.96	sandy silt to clayey silt	6
5.40	-3.92	1.29	1.30	7.4	0.57	53.2	4.12	1.14	0.03	23.90	sandy silt to clayey silt	6
5.45	-3.97	1.57	1.58	10.1	0.64	38.2	2.43	-0.05	0.03	23.90	sandy silt to clayey silt	6
5.50	-4.02	1.52	1.53	14.3	0.94	41.0	2.70	0.10	0.03	23.90	sandy silt to clayey silt	7
5.55	-4.07	2.00	2.01	12.6	0.63	44.9	2.25	0.25	0.03	23.90	silty sand to sandy silt	7
5.60	-4.12	2.65	2.66	12.0	0.45	48.8	1.84	0.32	0.03	23.93	silty sand to sandy silt	9
5.65	-4.17	3.23	3.24	13.8	0.43	50.5	1.56	0.30	0.03	23.90	silty sand to sandy silt	10
5.70	-4.22	3.41	3.42	16.8	0.49	31.4	0.92	-0.29	0.04	23.50	silty sand to sandy silt	11
5.75	-4.27	3.64	3.65	17.9	0.49	33.8	0.93	-0.22	0.04	23.47	silty sand to sandy silt	12
5.80	-4.32	4.06	4.07	17.3	0.43	36.3	0.89	-0.15	0.04	23.47	silty sand to sandy silt	13
5.85	-4.37	4.11	4.12	18.2	0.44	38.0	0.92	-0.12	0.04	23.53	silty sand to sandy silt	13
5.90	-4.42	3.79	3.80	15.9	0.42	38.3	1.01	-0.13	0.04	23.50	sand to silty sand	10
5.95	-4.47	4.26	4.27	17.3	0.41	38.3	0.90	-0.13	0.04	23.50	sand to silty sand	10
6.00	-4.52	4.44	4.45	21.8	0.49	31.1	0.70	-0.30	0.04	23.44	sand to silty sand	11
6.05	-4.57	4.65	4.66	24.4	0.52	32.3	0.69	-0.27	0.04	23.56	sand to silty sand	12
6.10	-4.62	5.17	5.18	27.7	0.54	33.7	0.65	-0.22	0.04	23.50	sand to silty sand	13
6.15	-4.67	5.20	5.21	35.5	0.68	35.8	0.69	-0.19	0.04	23.41	sand to silty sand	12
6.20	-4.72	4.39	4.40	29.9	0.68	36.2	0.82	-0.23	0.04	23.59	sand to silty sand	12
6.25	-4.77	4.97	4.98	27.0	0.54	38.2	0.77	-0.17	0.04	23.65	sand to silty sand	14
6.30	-4.82	7.98	7.99	31.6	0.40	38.0	0.48	-0.12	0.04	23.71	sand to silty sand	18
6.35	-4.87	8.95	8.96	34.2	0.38	38.2	0.43	-0.11	0.04	23.77	sand to silty sand	21
6.40	-4.92	8.84	8.85	37.6	0.43	39.7	0.45	-0.10	0.04	23.77	sand to silty sand	22
6.45	-4.97	8.11	8.12	38.7	0.48	40.5	0.50	-0.10	0.04	23.74	sand to silty sand	20
6.50	-5.02	6.99	7.00	35.4	0.51	40.5	0.58	-0.12	0.04	23.77	sand to silty sand	17
6.55	-5.07	5.82	5.83	33.8	0.58	41.4	0.71	-0.14	0.04	23.77	sand to silty sand	14
6.60	-5.12	4.53	4.54	21.8	0.48	42.5	0.94	-0.17	0.05	23.77	sand to silty sand	12
6.65	-5.17	4.31	4.32	21.9	0.51	42.8	0.99	-0.18	0.05	23.81	silty sand to sandy silt	14
6.70	-5.22	3.61	3.62	24.3	0.67	42.6	1.18	-0.24	0.06	23.77	silty sand to sandy silt	12
6.75	-5.27	2.81	2.82	26.4	0.94	44.2	1.57	-0.27	0.06	23.77	silty sand to sandy silt	11
6.80	-5.32	3.12	3.13	21.2	0.68	46.0	1.47	-0.20	0.06	23.77	silty sand to sandy silt	13
6.85	-5.37	5.68	5.69	25.0	0.44	40.7	0.72	-0.21	0.06	23.77	silty sand to sandy silt	15
6.90	-5.42	4.75	4.76	34.9	0.73	40.5	0.85	-0.27	0.06	23.77	silty sand to sandy silt	16
6.95	-5.47	3.53	3.54	32.2	0.91	40.7	1.15	-0.37	0.06	23.77	silty sand to sandy silt	14
7.00	-5.52	4.19	4.20	26.7	0.64	44.5	1.06	-0.23	0.06	23.77	silty sand to sandy silt	13

Soil interpretation reference: Robertson & Campanella-1983, based on 60% hammer efficiency and .15 m sliding data average

Table I.3 continued

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DEPTH m	ELEV m	TIP Qc MPa	COR TIP Qt MPa	FRICTION Fs kPa	FR RATIO Fs/Qc %	PORE PR Pw kPa	PP RATIO Pw/Qc %	DPP RATIO Pw-Ph/Qc %	INC I deg	TEMP T degC	INTERPRETED SOIL TYPE	N SPT
7.05	-5.57	3.61	3.62	30.8	0.85	40.4	1.12	-0.39	0.06	23.77	silty sand to sandy silt	11
7.10	-5.62	2.08	2.09	22.9	1.10	40.7	1.96	-0.69	0.06	23.77	silty sand to sandy silt	9
7.15	-5.67	2.23	2.24	15.3	0.69	42.6	1.91	-0.58	0.06	23.81	silty sand to sandy silt	9
7.20	-5.72	3.80	3.81	15.2	0.40	39.1	1.03	-0.45	0.06	23.84	silty sand to sandy silt	12
7.25	-5.77	4.77	4.78	25.5	0.53	40.4	0.85	-0.34	0.06	23.77	sand to silty sand	12
7.30	-5.82	5.29	5.30	26.4	0.50	40.4	0.76	-0.32	0.06	23.84	sand to silty sand	12
7.35	-5.87	3.78	3.79	28.3	0.75	40.5	1.07	-0.45	0.06	23.77	silty sand to sandy silt	13
7.40	-5.92	2.63	2.64	23.8	0.90	40.5	1.54	-0.67	0.06	23.77	silty sand to sandy silt	10
7.45	-5.97	2.36	2.37	19.9	0.84	44.0	1.86	-0.62	0.06	23.84	silty sand to sandy silt	10
7.50	-6.02	3.61	3.62	24.4	0.68	42.6	1.18	-0.46	0.06	23.81	silty sand to sandy silt	14
7.55	-6.07	6.92	6.93	44.6	0.64	41.1	0.59	-0.27	0.06	23.81	sand to silty sand	18
7.60	-6.12	11.57	11.58	51.0	0.44	42.1	0.36	-0.15	0.06	23.84	sand	22
7.65	-6.17	15.02	15.03	55.2	0.37	44.3	0.29	-0.11	0.07	23.84	sand	30
7.70	-6.22	18.58	18.59	66.1	0.36	54.5	0.29	-0.03	0.10	23.84	sand	36
7.75	-6.27	20.62	20.63	76.6	0.37	53.9	0.26	-0.04	0.10	22.92	sand	40
7.80	-6.32	20.57	20.58	89.0	0.43	55.4	0.27	-0.03	0.10	22.95	sand	39
7.85	-6.37	17.06	17.07	82.3	0.48	53.9	0.32	-0.05	0.10	23.07	sand	35
7.90	-6.42	14.70	14.71	71.4	0.49	54.3	0.37	-0.06	0.10	23.01	sand	30
7.95	-6.47	12.58	12.59	63.4	0.50	56.1	0.45	-0.06	0.10	23.13	sand	25
8.00	-6.52	10.12	10.13	40.2	0.40	56.2	0.56	-0.08	0.10	23.10	sand to silty sand	24
8.05	-6.57	6.39	6.40	38.8	0.61	53.9	0.84	-0.16	0.10	22.80	sand to silty sand	17
8.10	-6.62	3.74	3.75	44.0	1.18	54.4	1.45	-0.28	0.10	22.80	silty sand to sandy silt	13
8.15	-6.67	1.62	1.63	35.4	2.19	56.4	3.48	-0.56	0.10	22.83	sandy silt to clayey silt	8
8.20	-6.72	0.87	0.88	21.8	2.51	64.0	7.36	-0.22	0.10	22.80	clayey silt to silty clay	5
8.25	-6.77	0.59	0.60	8.8	1.49	74.1	12.56	1.31	0.10	22.80	silty clay to clay	4
8.30	-6.82	0.54	0.56	4.9	0.91	83.5	15.46	3.08	0.10	22.80	sensitive fine grained	3
8.35	-6.87	0.50	0.52	4.9	0.98	90.8	18.16	4.69	0.10	22.83	sensitive fine grained	3
8.40	-6.92	0.51	0.53	5.0	0.98	97.5	19.12	5.81	0.10	22.83	sensitive fine grained	3
8.45	-6.97	0.54	0.56	5.0	0.93	103.9	19.24	6.58	0.10	22.80	sensitive fine grained	3
8.50	-7.02	0.55	0.57	5.3	0.96	110.0	20.00	7.48	0.10	22.80	sensitive fine grained	3
8.55	-7.07	0.54	0.56	6.8	1.26	116.8	21.63	8.79	0.10	22.80	sensitive fine grained	3
8.60	-7.12	0.54	0.56	5.8	1.07	123.6	22.89	9.96	0.10	22.86	sensitive fine grained	3
8.65	-7.17	0.53	0.58	4.2	0.79	242.4	45.74	32.47	0.13	22.80	sensitive fine grained	3
8.70	-7.22	0.48	0.53	3.0	0.63	251.4	52.37	37.62	0.13	22.83	sensitive fine grained	2
8.75	-7.27	0.48	0.53	3.0	0.63	258.1	53.77	38.92	0.13	22.80	sensitive fine grained	2
8.80	-7.32	0.42	0.47	1.9	0.45	263.6	62.76	45.67	0.13	22.80	sensitive fine grained	2
8.85	-7.37	0.48	0.53	2.3	0.48	271.6	56.58	41.53	0.13	22.83	sensitive fine grained	2
8.90	-7.42	0.44	0.49	3.0	0.68	258.1	58.66	42.12	0.13	22.89	sensitive fine grained	2
8.95	-7.47	0.45	0.50	2.1	0.47	270.2	60.04	43.76	0.13	22.89	sensitive fine grained	2
9.00	-7.52	0.42	0.48	1.7	0.40	281.2	66.95	49.39	0.13	22.92	sensitive fine grained	2
9.05	-7.57	0.42	0.48	1.6	0.38	291.6	69.43	51.75	0.14	22.83	sensitive fine grained	2
9.10	-7.62	0.47	0.53	1.3	0.28	298.5	63.51	47.61	0.14	22.80	sensitive fine grained	2
9.15	-7.67	0.47	0.53	1.2	0.26	307.5	65.43	49.42	0.13	22.80	sensitive fine grained	2
9.20	-7.72	0.47	0.53	1.3	0.28	316.3	67.30	51.19	0.13	22.89	sensitive fine grained	2
9.25	-7.77	0.49	0.55	1.7	0.35	321.2	65.55	50.00	0.14	22.80	sensitive fine grained	3
9.30	-7.82	0.54	0.60	0.4	0.07	307.3	56.91	42.71	0.14	22.80	sensitive fine grained	3
9.35	-7.87	0.54	0.59	1.3	0.24	267.2	49.48	35.19	0.14	22.80	sensitive fine grained	4
9.40	-7.92	1.09	1.15	1.6	0.15	277.0	25.41	18.29	0.14	22.80	sandy silt to clayey silt	6
9.45	-7.97	2.51	2.54	5.6	0.22	131.3	5.23	2.12	0.14	22.89	silty sand to sandy silt	7
9.50	-8.02	3.02	3.04	14.4	0.48	117.8	3.90	1.30	0.14	22.80	silty sand to sandy silt	9

Soil interpretation reference: Robertson & Campanella-1983, based on 60% hammer efficiency and .15 m sliding data average

Table I.3 continued

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DEPTH m	ELEV m	TIP Qc MPa	COR TIP Qt MPa	FRICTION Fs kPa	FR RATIO Fs/Qc %	PORE PR Pw kPa	PP RATIO Pw/Qc %	DPP RATIO Pw-Ph/Qc %	INC I deg	TEMP T degC	INTERPRETED SOIL TYPE	N SPT
9.55	-8.07	2.62	2.64	16.1	0.61	118.8	4.53	1.51	0.14	22.80	silty sand to sandy silt	10
9.60	-8.12	2.95	2.97	16.1	0.55	103.1	3.49	0.80	0.14	22.80	silty sand to sandy silt	9
9.65	-8.17	2.10	2.11	14.0	0.67	56.2	2.68	-1.14	0.20	22.80	silty sand to sandy silt	8
9.70	-8.22	1.90	1.91	11.6	0.61	60.6	3.19	-1.05	0.20	22.80	sandy silt to clayey silt	8
9.75	-8.27	1.79	1.80	16.6	0.93	62.4	3.49	-1.04	0.20	22.80	sandy silt to clayey silt	7
9.80	-8.32	1.46	1.47	10.1	0.69	65.1	4.46	-1.13	0.20	22.80	sandy silt to clayey silt	7
9.85	-8.37	2.36	2.37	14.1	0.60	62.8	2.66	-0.82	0.20	22.80	sandy silt to clayey silt	7
9.90	-8.42	1.77	1.78	15.7	0.89	58.4	3.30	-1.37	0.20	22.80	sandy silt to clayey silt	8
9.95	-8.47	1.78	1.79	15.2	0.85	60.7	3.41	-1.26	0.20	22.80	sandy silt to clayey silt	7
10.00	-8.52	1.59	1.60	16.0	1.01	62.8	3.95	-1.31	0.20	22.80	sandy silt to clayey silt	6
10.05	-8.57	1.26	1.27	15.9	1.26	65.1	5.17	-1.50	0.20	22.80	sandy silt to clayey silt	6
10.10	-8.62	1.35	1.36	19.1	1.41	67.5	5.00	-1.26	0.20	22.80	clayey silt to silty clay	6
10.15	-8.67	1.06	1.07	17.9	1.69	69.9	6.59	-1.43	0.20	22.86	clayey silt to silty clay	5
10.20	-8.72	0.67	0.68	8.9	1.33	74.3	11.09	-1.67	0.20	22.80	clayey silt to silty clay	4
10.25	-8.77	0.96	0.98	2.9	0.30	80.9	8.43	-0.53	0.20	22.80	sandy silt to clayey silt	4
10.30	-8.82	1.49	1.51	6.9	0.46	83.0	5.57	-0.23	0.20	22.92	sandy silt to clayey silt	6
10.35	-8.87	2.23	2.25	10.8	0.48	76.3	3.42	-0.48	0.20	22.92	sandy silt to clayey silt	8
10.40	-8.92	2.10	2.12	19.2	0.91	76.3	3.63	-0.53	0.20	22.92	sandy silt to clayey silt	9
10.45	-8.97	2.14	2.15	16.9	0.79	74.9	3.50	-0.61	0.20	22.98	sandy silt to clayey silt	9
10.50	-9.02	2.40	2.42	22.6	0.94	76.9	3.20	-0.48	0.24	23.01	sandy silt to clayey silt	9
10.55	-9.07	2.19	2.21	21.9	1.00	78.3	3.58	-0.49	0.24	23.04	sandy silt to clayey silt	7
10.60	-9.12	0.90	0.92	14.0	1.56	79.4	8.82	-1.12	0.24	23.07	sandy silt to clayey silt	6
10.65	-9.17	1.12	1.14	12.2	1.09	89.6	8.00	-0.03	0.33	23.13	sandy silt to clayey silt	6
10.70	-9.22	2.69	2.71	15.1	0.56	85.1	3.16	-0.20	0.33	23.10	sandy silt to clayey silt	8
10.75	-9.27	2.42	2.44	33.5	1.38	77.6	3.21	-0.55	0.33	23.16	sandy silt to clayey silt	9
10.80	-9.32	1.27	1.29	28.2	2.22	80.1	6.31	-0.89	0.33	23.16	clayey silt to silty clay	7
10.85	-9.37	0.74	0.76	16.5	2.23	89.8	12.14	-0.28	0.33	23.20	clayey silt to silty clay	5
10.90	-9.42	1.20	1.22	9.6	0.80	109.3	9.11	1.41	0.36	23.26	clayey silt to silty clay	5
10.95	-9.47	0.90	0.92	12.7	1.41	112.9	12.54	2.23	0.36	23.13	clayey silt to silty clay	5
11.00	-9.52	0.74	0.76	10.2	1.38	120.8	16.32	3.71	0.36	23.16	clayey silt to silty clay	4
11.05	-9.57	1.03	1.05	12.7	1.23	110.1	10.69	1.58	0.36	23.13	clayey silt to silty clay	5
11.10	-9.62	1.25	1.27	13.4	1.07	110.0	8.80	1.25	0.36	23.13	clayey silt to silty clay	5
11.15	-9.67	0.61	0.63	9.8	1.61	114.5	18.77	3.22	0.36	23.29	clayey silt to silty clay	5
11.20	-9.72	1.06	1.08	10.8	1.02	121.2	11.43	2.44	0.36	23.20	clayey silt to silty clay	5
11.25	-9.77	1.18	1.20	11.3	0.96	81.8	6.93	-1.19	0.36	22.86	clayey silt to silty clay	5
11.30	-9.82	0.71	0.73	16.0	2.25	89.6	12.62	-0.94	0.36	22.86	clayey silt to silty clay	5
11.35	-9.87	0.92	0.94	14.0	1.52	93.6	10.17	-0.35	0.36	22.86	clayey silt to silty clay	4
11.40	-9.92	0.74	0.76	9.6	1.30	99.3	13.42	0.27	0.36	22.80	clayey silt to silty clay	4
11.45	-9.97	0.74	0.77	4.2	0.57	141.3	19.09	5.88	0.36	22.92	sensitive fine grained	3
11.50	-10.02	0.59	0.62	6.2	1.05	151.8	25.73	9.07	0.36	22.92	clayey silt to silty clay	4
11.55	-10.07	0.79	0.82	21.0	2.66	161.6	20.46	7.95	0.36	22.92	silty clay to clay	5
11.60	-10.12	0.67	0.70	17.9	2.67	168.2	25.10	10.29	0.37	22.89	silty clay to clay	5
11.65	-10.17	0.74	0.76	14.1	1.91	118.9	16.07	2.59	0.36	23.29	silty clay to clay	5
11.70	-10.22	0.72	0.75	9.5	1.32	125.7	17.46	3.54	0.36	23.29	clayey silt to silty clay	4
11.75	-10.27	0.68	0.71	6.9	1.01	130.5	19.19	4.38	0.36	23.26	sensitive fine grained	3
11.80	-10.32	0.67	0.70	7.5	1.12	135.9	20.28	5.18	0.36	23.29	sensitive fine grained	3
11.85	-10.37	0.72	0.75	7.6	1.06	141.4	19.64	5.51	0.36	23.26	sensitive fine grained	4
11.90	-10.42	0.73	0.76	7.7	1.05	145.9	19.99	5.99	0.36	23.29	clayey silt to silty clay	4
11.95	-10.47	0.73	0.76	7.8	1.07	152.6	20.90	6.84	0.36	23.26	clayey silt to silty clay	4
12.00	-10.52	0.74	0.77	8.2	1.11	159.3	21.53	7.59	0.36	23.29	clayey silt to silty clay	4

Soil interpretation reference: Robertson & Campanella-1983, based on 60% hammer efficiency and .15 m sliding data average

Table I.3 continued

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DEPTH m	ELEV m	TIP Qc MPa	COR TIP Qt MPa	FRICTION Fs kPa	FR RATIO Fs/Qc %	PORE PR Pw kPa	PP RATIO Pw/Qc %	DPP RATIO Pw-Ph/Qc %	INC I deg	TEMP T degC	INTERPRETED SOIL TYPE	N SPT
12.05	-10.57	0.74	0.77	8.8	1.19	165.4	22.35	8.34	0.36	23.29	clayey silt to silty clay	4
12.10	-10.62	0.74	0.77	8.8	1.19	171.6	23.19	9.11	0.36	23.29	clayey silt to silty clay	4
12.15	-10.67	0.72	0.76	8.7	1.21	179.3	24.90	10.37	0.36	23.29	clayey silt to silty clay	4
12.20	-10.72	0.70	0.74	8.4	1.20	186.0	26.57	11.55	0.36	23.29	clayey silt to silty clay	4
12.25	-10.77	0.68	0.72	8.7	1.28	193.0	28.38	12.85	0.36	23.29	clayey silt to silty clay	3
12.30	-10.82	0.68	0.72	8.8	1.29	199.7	29.37	13.76	0.36	23.29	clayey silt to silty clay	3
12.35	-10.87	0.68	0.72	8.8	1.29	206.5	30.37	14.69	0.36	23.29	clayey silt to silty clay	3
12.40	-10.92	0.67	0.71	8.2	1.22	215.0	32.09	16.11	0.36	23.29	clayey silt to silty clay	3
12.45	-10.97	0.67	0.71	8.8	1.31	222.3	33.18	17.12	0.37	23.35	clayey silt to silty clay	3
12.50	-11.02	0.66	0.71	8.8	1.33	229.9	34.83	18.46	0.37	23.29	clayey silt to silty clay	3
12.55	-11.07	0.67	0.72	10.9	1.63	237.9	35.51	19.30	0.51	23.29	clayey silt to silty clay	3
12.60	-11.12	0.67	0.72	10.0	1.49	247.0	36.87	20.59	0.52	23.29	clayey silt to silty clay	3
12.65	-11.17	0.67	0.74	9.7	1.45	353.2	52.72	36.37	0.51	23.26	clayey silt to silty clay	3
12.70	-11.22	0.68	0.75	10.2	1.50	357.8	52.62	36.44	0.51	23.29	clayey silt to silty clay	3
12.75	-11.27	0.67	0.74	10.1	1.51	363.7	54.28	37.79	0.51	23.26	clayey silt to silty clay	3
12.80	-11.32	0.66	0.73	9.5	1.44	372.6	56.45	39.63	0.51	23.29	clayey silt to silty clay	3
12.85	-11.37	0.66	0.74	9.4	1.42	378.5	57.35	40.45	0.51	23.29	clayey silt to silty clay	3
12.90	-11.42	0.66	0.74	10.0	1.52	381.7	57.83	40.86	0.51	23.29	clayey silt to silty clay	3
12.95	-11.47	0.66	0.74	10.0	1.52	382.1	57.89	40.85	0.51	23.29	clayey silt to silty clay	3
13.00	-11.52	0.61	0.69	9.5	1.56	383.8	62.92	44.40	0.53	23.29	clayey silt to silty clay	3
13.05	-11.57	0.59	0.67	8.8	1.49	379.3	64.29	45.06	0.53	23.29	clayey silt to silty clay	3
13.10	-11.62	0.59	0.67	10.1	1.71	376.1	63.75	44.43	0.53	23.29	clayey silt to silty clay	3
13.15	-11.67	0.61	0.68	11.1	1.82	356.8	58.49	39.73	0.54	23.29	clayey silt to silty clay	3
13.20	-11.72	0.60	0.67	11.3	1.88	336.7	56.12	36.96	0.54	23.29	clayey silt to silty clay	3
13.25	-11.77	0.61	0.68	10.1	1.66	332.3	54.48	35.55	0.54	23.29	clayey silt to silty clay	3
13.30	-11.82	0.61	0.68	10.6	1.74	338.8	55.54	36.54	0.54	23.29	clayey silt to silty clay	3
13.35	-11.87	0.64	0.71	10.4	1.63	346.9	54.20	36.01	0.54	23.29	clayey silt to silty clay	3
13.40	-11.92	0.67	0.74	10.8	1.61	357.0	53.28	35.84	0.54	23.29	clayey silt to silty clay	3
13.45	-11.97	0.67	0.74	10.4	1.55	365.8	54.60	37.08	0.54	23.29	clayey silt to silty clay	3
13.50	-12.02	0.71	0.78	10.9	1.54	374.8	52.79	36.19	0.54	23.29	clayey silt to silty clay	3
13.55	-12.07	0.68	0.76	13.1	1.93	379.7	55.84	38.43	0.54	23.29	clayey silt to silty clay	3
13.60	-12.12	0.70	0.78	11.4	1.63	382.9	54.70	37.72	0.54	23.26	clayey silt to silty clay	3
13.65	-12.17	0.70	0.78	9.9	1.41	388.3	55.47	38.42	0.83	23.26	clayey silt to silty clay	4
13.70	-12.22	0.70	0.78	6.4	0.91	401.7	57.39	40.27	0.83	23.26	clayey silt to silty clay	4
13.75	-12.27	0.72	0.80	25.7	3.57	410.9	57.07	40.36	0.83	23.29	silty clay to clay	5
13.80	-12.32	0.64	0.72	21.8	3.41	407.8	63.72	44.84	0.83	23.29	silty clay to clay	5
13.85	-12.37	0.81	0.86	15.9	1.96	226.7	27.99	13.01	0.83	23.29	silty clay to clay	5
13.90	-12.42	0.76	0.81	10.0	1.32	238.0	31.32	15.29	0.83	23.29	clayey silt to silty clay	4
13.95	-12.47	0.74	0.79	7.5	1.01	246.9	33.36	16.84	0.83	23.26	clayey silt to silty clay	4
14.00	-12.52	0.74	0.79	6.9	0.93	256.0	34.59	18.00	0.83	23.29	clayey silt to silty clay	4
14.05	-12.57	0.73	0.78	8.1	1.11	265.0	36.30	19.41	0.83	23.29	clayey silt to silty clay	4
14.10	-12.62	0.74	0.80	8.7	1.18	276.1	37.31	20.59	0.83	23.29	clayey silt to silty clay	4
14.15	-12.67	0.73	0.79	8.2	1.12	287.3	39.36	22.33	0.83	23.26	clayey silt to silty clay	4
14.20	-12.72	0.72	0.78	7.5	1.04	300.7	41.76	24.44	0.83	23.29	clayey silt to silty clay	4
14.25	-12.77	0.72	0.78	7.5	1.04	314.2	43.64	26.25	0.83	23.29	clayey silt to silty clay	4
14.30	-12.82	0.73	0.80	8.3	1.14	328.5	45.00	27.78	0.83	23.29	clayey silt to silty clay	4
14.35	-12.87	0.73	0.80	9.6	1.32	342.8	46.96	29.67	0.83	23.29	clayey silt to silty clay	4
14.40	-12.92	0.74	0.81	10.0	1.35	355.9	48.09	30.97	0.83	23.29	clayey silt to silty clay	4
14.45	-12.97	0.74	0.81	10.8	1.46	367.8	49.70	32.51	0.90	23.29	clayey silt to silty clay	4
14.50	-13.02	0.74	0.82	10.1	1.36	379.3	51.26	34.00	0.90	23.29	clayey silt to silty clay	4

Soil interpretation reference: Robertson & Campanella-1983, based on 60% hammer efficiency and .15 m sliding data average

Table I.3 continued

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DEPTH m	ELEV m	TIP Qc MPa	COR TIP Qt MPa	FRICTION Fs kPa	FR RATIO Fs/Qc %	PORE PR Pw kPa	PP RATIO Pw/Qc %	DPP RATIO Pw-Ph/Qc %	INC I deg	TEMP T degC	INTERPRETED SOIL TYPE	N SPT
14.55	-13.07	0.71	0.79	11.0	1.55	386.7	54.46	36.41	0.90	23.29	clayey silt to silty clay	4
14.60	-13.12	0.67	0.75	8.7	1.30	401.7	59.96	40.75	0.91	23.29	clayey silt to silty clay	3
14.65	-13.17	0.67	0.75	7.0	1.04	422.5	63.06	43.78	0.95	23.26	sensitive fine grained	3
14.70	-13.22	0.67	0.76	6.2	0.93	437.6	65.31	45.96	0.95	23.29	sensitive fine grained	3
14.75	-13.27	0.67	0.76	6.1	0.91	448.9	67.00	47.58	0.95	23.29	sensitive fine grained	3
14.80	-13.32	0.67	0.76	6.9	1.03	453.4	67.67	48.17	0.95	23.26	sensitive fine grained	3
14.85	-13.37	0.68	0.77	7.4	1.09	457.8	67.32	48.04	0.96	23.29	clayey silt to silty clay	3
14.90	-13.42	0.68	0.77	7.6	1.12	464.6	68.32	48.97	0.96	23.26	clayey silt to silty clay	3
14.95	-13.47	0.70	0.79	8.8	1.26	471.3	67.33	48.46	0.96	23.29	clayey silt to silty clay	4
15.00	-13.52	0.76	0.85	8.6	1.13	470.5	61.91	44.46	0.97	23.26	clayey silt to silty clay	4
15.05	-13.57	0.73	0.83	8.8	1.21	477.2	65.37	47.14	0.98	23.29	clayey silt to silty clay	4
15.10	-13.62	0.74	0.84	8.0	1.08	477.8	64.57	46.52	0.98	23.29	clayey silt to silty clay	4
15.15	-13.67	0.75	0.85	8.8	1.17	484.8	64.64	46.77	0.98	23.29	clayey silt to silty clay	4
15.20	-13.72	0.74	0.84	9.5	1.28	481.8	65.11	46.93	1.07	23.29	clayey silt to silty clay	4
15.25	-13.77	0.76	0.86	9.9	1.30	485.3	63.86	46.09	1.07	23.26	clayey silt to silty clay	4
15.30	-13.82	0.79	0.89	9.8	1.24	496.7	62.87	45.72	1.07	23.26	clayey silt to silty clay	4
15.35	-13.87	0.78	0.88	10.1	1.29	497.1	63.73	46.29	1.07	23.29	clayey silt to silty clay	4
15.40	-13.92	0.79	0.89	10.8	1.37	489.4	61.95	44.67	1.07	23.29	clayey silt to silty clay	4
15.45	-13.97	0.79	0.89	10.4	1.32	482.5	61.08	43.73	1.07	23.29	clayey silt to silty clay	4
15.50	-14.02	0.74	0.84	9.1	1.23	482.5	65.20	46.62	1.07	23.29	clayey silt to silty clay	4
15.55	-14.07	0.73	0.83	8.4	1.15	496.3	67.99	49.08	1.07	23.29	clayey silt to silty clay	4
15.60	-14.12	0.74	0.84	8.7	1.18	508.1	68.66	49.95	1.08	23.29	clayey silt to silty clay	4
15.65	-14.17	0.75	0.84	7.7	1.03	459.1	61.21	42.68	1.08	23.29	clayey silt to silty clay	4
15.70	-14.22	0.74	0.83	6.7	0.91	473.4	63.97	45.13	1.19	23.29	clayey silt to silty clay	4
15.75	-14.27	0.79	0.89	3.5	0.44	479.9	60.75	43.03	1.19	23.23	sandy silt to clayey silt	3
15.80	-14.32	0.88	0.95	5.6	0.64	359.1	40.81	24.85	1.19	23.26	sandy silt to clayey silt	3
15.85	-14.37	0.74	0.81	4.3	0.58	357.4	48.30	29.25	1.20	23.23	sandy silt to clayey silt	3
15.90	-14.42	0.87	0.94	5.3	0.61	370.9	42.63	26.38	1.20	23.26	sandy silt to clayey silt	3
15.95	-14.47	0.80	0.88	5.5	0.69	397.2	49.65	31.91	1.20	23.29	sandy silt to clayey silt	3
16.00	-14.52	0.75	0.83	5.5	0.73	403.8	53.84	34.85	1.20	23.29	sandy silt to clayey silt	3
16.05	-14.57	0.90	0.98	3.1	0.34	412.1	45.79	29.91	1.20	23.20	sandy silt to clayey silt	3
16.10	-14.62	0.80	0.87	4.4	0.55	369.6	46.20	28.28	1.21	23.23	sensitive fine grained	4
16.15	-14.67	0.68	0.76	5.5	0.81	397.1	58.40	37.24	1.21	23.26	sensitive fine grained	4
16.20	-14.72	0.73	0.81	4.0	0.55	412.8	56.55	36.77	1.21	23.26	sensitive fine grained	4
16.25	-14.77	0.78	0.85	4.3	0.55	339.9	43.58	25.01	1.21	23.04	sensitive fine grained	4
16.30	-14.82	0.72	0.79	4.4	0.61	363.9	50.54	30.36	1.21	23.04	clayey silt to silty clay	4
16.35	-14.87	0.68	0.76	20.8	3.06	386.0	56.76	35.32	1.21	22.98	clayey silt to silty clay	4
16.40	-14.92	0.71	0.79	13.3	1.87	406.2	57.21	36.60	1.21	22.95	clayey silt to silty clay	4
16.45	-14.97	1.11	1.14	8.9	0.80	162.0	14.59	1.37	1.21	22.95	clayey silt to silty clay	4
16.50	-15.02	0.81	0.84	4.9	0.60	174.9	21.59	3.41	1.21	23.04	sandy silt to clayey silt	4
16.55	-15.07	0.76	0.80	5.5	0.72	185.7	24.43	4.99	1.21	23.01	clayey silt to silty clay	4
16.60	-15.12	0.80	0.84	7.0	0.88	195.3	24.41	5.88	1.21	23.04	clayey silt to silty clay	4
16.65	-15.17	0.83	0.90	6.1	0.73	347.5	41.87	23.94	1.21	23.16	clayey silt to silty clay	4
16.70	-15.22	0.79	0.86	4.9	0.62	362.2	45.85	26.95	1.21	23.10	sandy silt to clayey silt	3
16.75	-15.27	0.77	0.85	4.5	0.58	379.3	49.26	29.81	1.22	23.20	sandy silt to clayey silt	3
16.80	-15.32	0.80	0.88	5.6	0.70	391.5	48.94	30.16	1.22	23.20	sensitive fine grained	4
16.85	-15.37	0.74	0.82	4.3	0.58	404.3	54.64	34.27	1.22	23.23	sensitive fine grained	4
16.90	-15.42	0.70	0.78	4.3	0.61	413.0	59.00	37.40	1.57	23.26	sensitive fine grained	4
16.95	-15.47	0.78	0.86	3.6	0.46	421.9	54.09	34.64	1.59	23.23	sensitive fine grained	4
17.00	-15.52	0.79	0.88	3.6	0.46	433.2	54.84	35.57	1.59	23.23	sensitive fine grained	4

Soil interpretation reference: Robertson & Campanella-1983, based on 60% hammer efficiency and .15 m sliding data average

Table I.3 continued

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DEPTH m	ELEV m	TIP Qc MPa	COR TIP Qt MPa	FRICTION Fs kPa	FR RATIO Fs/Qc %	PORE PR Pw kPa	PP RATIO Pw/Qc %	DPP RATIO Pw-Ph/Qc %	INC I deg	TEMP T degC	INTERPRETED SOIL TYPE	N SPT
17.05	-15.57	0.77	0.86	4.2	0.55	451.1	58.58	38.75	1.59	23.23	sensitive fine grained	4
17.10	-15.62	0.80	0.89	5.1	0.64	466.8	58.35	39.20	1.59	23.26	sandy silt to clayey silt	3
17.15	-15.67	0.86	0.96	7.7	0.90	484.2	56.30	38.43	1.59	23.26	clayey silt to silty clay	4
17.20	-15.72	0.87	0.97	9.7	1.11	489.8	56.30	38.58	1.60	23.26	clayey silt to silty clay	4
17.25	-15.77	0.87	0.97	12.2	1.40	507.1	58.29	40.51	1.60	23.29	clayey silt to silty clay	4
17.30	-15.82	0.87	0.97	11.4	1.31	520.4	59.82	41.98	1.60	23.23	clayey silt to silty clay	4
17.35	-15.87	0.87	0.98	11.0	1.26	534.2	61.40	43.51	1.64	23.23	clayey silt to silty clay	4
17.40	-15.92	0.87	0.98	12.0	1.38	547.6	62.94	45.00	1.64	23.29	clayey silt to silty clay	4
17.45	-15.97	0.88	0.99	12.8	1.45	558.7	63.49	45.69	1.64	23.26	clayey silt to silty clay	4
17.50	-16.02	0.88	0.99	14.1	1.60	567.0	64.43	46.58	1.64	23.26	clayey silt to silty clay	4
17.55	-16.07	0.93	1.05	21.6	2.32	577.2	62.06	45.12	1.64	23.20	clayey silt to silty clay	5
17.60	-16.12	1.06	1.18	17.9	1.69	579.2	54.64	39.73	1.65	23.20	sandy silt to clayey silt	8
17.65	-16.17	4.04	4.10	31.8	0.79	285.0	7.05	3.13	1.81	23.10	silty sand to sandy silt	12
17.70	-16.22	5.62	5.67	67.0	1.19	235.9	4.20	1.37	1.81	23.10	sand	25
17.75	-16.27	27.93	27.95	156.7	0.56	98.9	0.35	-0.22	1.73	22.98	sand	31
17.80	-16.32	12.72	12.72	43.3	0.34	11.1	0.09	-1.17	1.78	23.07	sand	46
17.85	-16.37	28.39	28.39	59.0	0.21	2.4	0.01	-0.56	1.86	23.16	gravelly sand to sand	34
17.90	-16.42	20.26	20.25	-4.1	-0.02	-49.4	-0.24	-1.04	1.95	23.16	gravelly sand to sand	32
17.95	-16.47	9.19	9.18	-20.4	-0.22	-48.1	-0.52	-2.28	1.95	23.16	?	?
18.00	-16.52	6.36	6.35	-14.7	-0.23	-44.9	-0.71	-3.25	2.01	23.26	?	?
18.05	-16.57	3.02	3.01	-10.1	-0.33	-39.4	-1.30	-6.69	1.89	23.23	?	?
18.10	-16.62	3.47	3.46	-3.6	-0.10	-35.9	-1.03	-5.73	2.06	23.26	?	?
18.15	-16.67	3.63	3.62	1.7	0.05	-33.1	-0.91	-5.42	2.05	23.29	sand to silty sand	10
18.20	-16.72	4.32	4.31	3.2	0.07	-29.0	-0.67	-4.47	2.11	23.29	sand to silty sand	11
18.25	-16.77	5.18	5.18	5.0	0.10	-22.4	-0.43	-3.61	2.11	23.29	sand to silty sand	13
18.30	-16.82	6.28	6.28	10.7	0.17	-18.7	-0.30	-2.92	2.10	23.35	sand to silty sand	15
18.35	-16.87	7.05	7.05	6.2	0.09	-15.3	-0.22	-2.56	2.11	23.53	sand to silty sand	17
18.40	-16.92	7.65	7.65	3.1	0.04	-11.6	-0.15	-2.32	2.11	23.71	sand	15
18.45	-16.97	8.37	8.37	2.9	0.03	-9.4	-0.11	-2.10	2.10	23.77	sand	16
18.50	-17.02	8.35	8.35	1.7	0.02	-7.4	-0.09	-2.09	2.11	23.77	sand	17
18.55	-17.07	8.41	8.41	5.7	0.07	-9.1	-0.11	-2.10	2.13	23.84	sand	17
18.60	-17.12	8.09	8.09	4.0	0.05	-9.0	-0.11	-2.19	2.13	23.77	sand	17
18.65	-17.17	8.75	8.76	5.4	0.06	42.1	0.48	-1.44	2.13	23.77	sand	19
18.70	-17.22	11.13	11.13	13.3	0.12	18.1	0.16	-1.35	2.13	23.77	sand	21
18.75	-17.27	12.00	12.00	11.4	0.10	0.0	0.00	-1.41	2.13	23.84	sand	23
18.80	-17.32	11.80	11.80	8.2	0.07	-2.1	-0.02	-1.46	2.13	23.84	sand	23
18.85	-17.37	10.97	10.97	7.4	0.07	0.0	0.00	-1.55	2.13	23.77	sand	22
18.90	-17.42	10.18	10.18	7.5	0.07	4.3	0.04	-1.64	2.13	23.77	sand	21
18.95	-17.47	10.11	10.11	6.2	0.06	9.0	0.09	-1.61	2.13	23.81	sand	20
19.00	-17.52	9.53	9.53	9.5	0.10	11.2	0.12	-1.69	2.13	23.90	sand	19
19.05	-17.57	8.54	8.54	10.0	0.12	13.5	0.16	-1.86	2.13	23.90	sand	18
19.10	-17.62	9.04	9.04	6.2	0.07	11.2	0.12	-1.79	2.13	23.84	sand	17
19.15	-17.67	8.55	8.55	2.9	0.03	-18.5	-0.22	-2.24	2.14	23.90	sand	17
19.20	-17.72	7.91	7.91	3.5	0.04	-18.0	-0.23	-2.42	2.14	23.99	sand	16
19.25	-17.77	8.22	8.22	8.1	0.10	-13.3	-0.16	-2.28	2.14	24.20	sand	17
19.30	-17.82	8.70	8.70	7.6	0.09	-9.4	-0.11	-2.12	2.14	24.23	sand	17
19.35	-17.87	8.85	8.85	14.0	0.16	-7.2	-0.08	-2.06	2.14	24.26	sand	18
19.40	-17.92	9.33	9.33	18.1	0.19	-3.8	-0.04	-1.92	2.37	24.26	sand	19
19.45	-17.97	10.94	10.94	5.5	0.05	-1.4	-0.01	-1.62	2.53	24.32	sand	21
19.50	-18.02	10.88	10.88	4.9	0.05	-4.6	-0.04	-1.67	2.62	24.26	sand	21

Soil interpretation reference: Robertson & Campanella-1983, based on 60% hammer efficiency and .15 m sliding data average

Table I.3 continued

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DEPTH m	ELEV m	TIP Qc MPa	COR TIP Qt MPa	FRICTION Fs kPa	FR RATIO Fs/Qc %	PORE PR Pw kPa	PP RATIO Pw/Qc %	DPP RATIO Pw-Ph/Qc %	INC I deg	TEMP T degC	INTERPRETED SOIL TYPE	N SPT
19.55	-18.07	9.40	9.40	14.0	0.15	-2.0	-0.02	-1.91	2.60	24.26	sand	18
19.60	-18.12	6.85	6.85	4.6	0.07	11.1	0.16	-2.43	2.66	24.39	sand to silty sand	18
19.65	-18.17	5.29	5.31	6.1	0.12	98.9	1.87	-1.50	2.59	24.26	sand to silty sand	13
19.70	-18.22	3.70	3.71	5.7	0.15	46.7	1.26	-3.57	2.59	24.26	sand to silty sand	11
19.75	-18.27	4.06	4.07	16.4	0.40	58.2	1.43	-2.98	2.59	24.26	sand to silty sand	11
19.80	-18.32	4.86	4.87	23.8	0.49	51.6	1.06	-2.64	2.58	24.26	sand to silty sand	12
19.85	-18.37	4.98	4.99	30.3	0.61	49.7	1.00	-2.62	2.58	24.26	sand to silty sand	12
19.90	-18.42	4.50	4.51	36.9	0.82	56.7	1.26	-2.75	2.58	24.26	silty sand to sandy silt	16
19.95	-18.47	4.58	4.60	45.2	0.99	79.3	1.73	-2.22	2.58	24.29	silty sand to sandy silt	15
20.00	-18.52	4.85	4.87	40.7	0.84	103.1	2.13	-1.62	2.58	24.26	silty sand to sandy silt	15
20.05	-18.57	4.27	4.29	23.8	0.56	123.7	2.90	-1.37	2.58	24.26	silty sand to sandy silt	15
20.10	-18.62	4.05	4.08	38.7	0.96	146.0	3.60	-0.90	2.58	24.26	silty sand to sandy silt	14
20.15	-18.67	3.86	3.89	27.7	0.72	168.5	4.37	-0.38	2.58	24.32	silty sand to sandy silt	13
20.20	-18.72	4.19	4.23	29.0	0.69	176.7	4.22	-0.16	2.58	24.26	silty sand to sandy silt	13
20.25	-18.77	3.72	3.76	32.2	0.87	192.7	5.18	0.23	2.58	24.35	silty sand to sandy silt	13
20.30	-18.82	4.11	4.16	38.2	0.93	225.6	5.49	1.00	2.58	24.26	silty sand to sandy silt	13
20.35	-18.87	3.94	4.00	43.9	1.11	287.8	7.30	2.61	2.58	24.32	silty sand to sandy silt	14
20.40	-18.92	4.20	4.27	51.1	1.22	339.7	8.09	3.67	2.58	24.32	silty sand to sandy silt	14
20.45	-18.97	4.06	4.14	48.3	1.19	382.5	9.42	4.84	2.58	24.35	silty sand to sandy silt	14
20.50	-19.02	4.22	4.30	40.7	0.96	397.9	9.43	5.01	2.59	24.32	silty sand to sandy silt	15
20.55	-19.07	5.25	5.33	33.6	0.64	413.2	7.87	4.31	2.59	24.39	silty sand to sandy silt	16
20.60	-19.12	4.80	4.89	34.2	0.71	470.0	9.79	5.89	2.59	24.32	silty sand to sandy silt	16
20.65	-19.17	4.32	4.36	49.1	1.14	222.0	5.14	0.79	2.60	23.81	silty sand to sandy silt	15
20.70	-19.22	4.51	4.56	52.4	1.16	274.2	6.08	1.90	2.61	23.81	silty sand to sandy silt	15
20.75	-19.27	4.77	4.84	50.5	1.06	328.9	6.90	2.93	2.63	23.81	silty sand to sandy silt	16
20.80	-19.32	4.90	4.98	46.5	0.95	424.0	8.65	4.79	2.89	23.93	silty sand to sandy silt	16
20.85	-19.37	4.69	4.79	58.3	1.24	494.0	10.53	6.48	2.81	23.93	silty sand to sandy silt	16
20.90	-19.42	4.38	4.51	49.1	1.12	641.7	14.65	10.30	2.81	23.90	silty sand to sandy silt	16
20.95	-19.47	5.33	5.46	49.8	0.93	662.9	12.44	8.85	2.81	23.93	silty sand to sandy silt	17
21.00	-19.52	5.67	5.83	52.4	0.92	785.1	13.85	10.47	2.82	24.05	silty sand to sandy silt	18
21.05	-19.57	5.40	5.57	46.5	0.86	850.6	15.75	12.20	2.82	24.14	sand to silty sand	14
21.10	-19.62	5.37	5.54	35.7	0.66	825.9	15.38	11.80	2.84	24.14	sand to silty sand	13
21.15	-19.67	5.29	5.45	39.3	0.74	808.2	15.28	11.63	3.13	24.32	sand to silty sand	14
21.20	-19.72	5.68	5.83	47.2	0.83	729.0	12.83	9.43	3.13	24.32	sand to silty sand	14
21.25	-19.77	5.81	5.95	34.8	0.60	715.0	12.31	8.97	3.13	24.26	sand to silty sand	15
21.30	-19.82	6.66	6.79	51.7	0.78	665.7	10.00	7.08	3.13	24.26	sand to silty sand	15
21.35	-19.87	5.69	5.82	50.5	0.89	653.4	11.48	8.06	3.13	24.26	sand to silty sand	16
21.40	-19.92	6.56	6.73	47.4	0.72	836.3	12.75	9.77	3.14	24.26	sand to silty sand	17
21.45	-19.97	8.10	8.22	63.1	0.78	623.2	7.69	5.28	3.14	24.26	sand to silty sand	18
21.50	-20.02	7.43	7.55	75.8	1.02	581.0	7.82	5.18	3.14	24.32	sand to silty sand	20
21.55	-20.07	8.21	8.23	65.7	0.80	124.7	1.52	-0.88	3.13	24.26	sand to silty sand	20
21.60	-20.12	7.90	7.90	63.2	0.80	20.5	0.26	-2.24	3.30	24.26	?	?

Soil interpretation reference: Robertson & Campanella-1983, based on 60% hammer efficiency and .15 m sliding data average

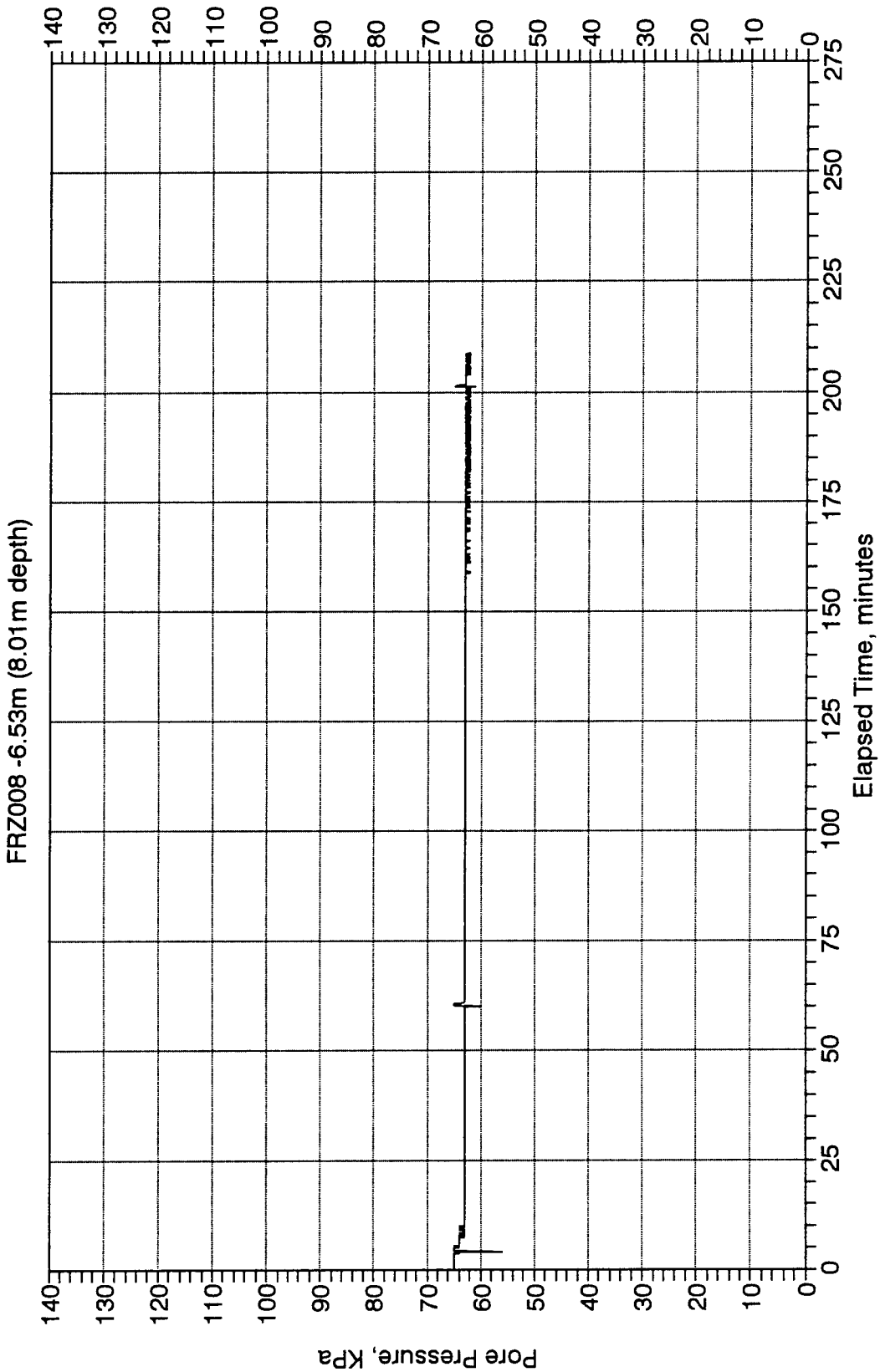

Figure I.11 FRZ008 Pore Pressure at Elev. -6.53 m

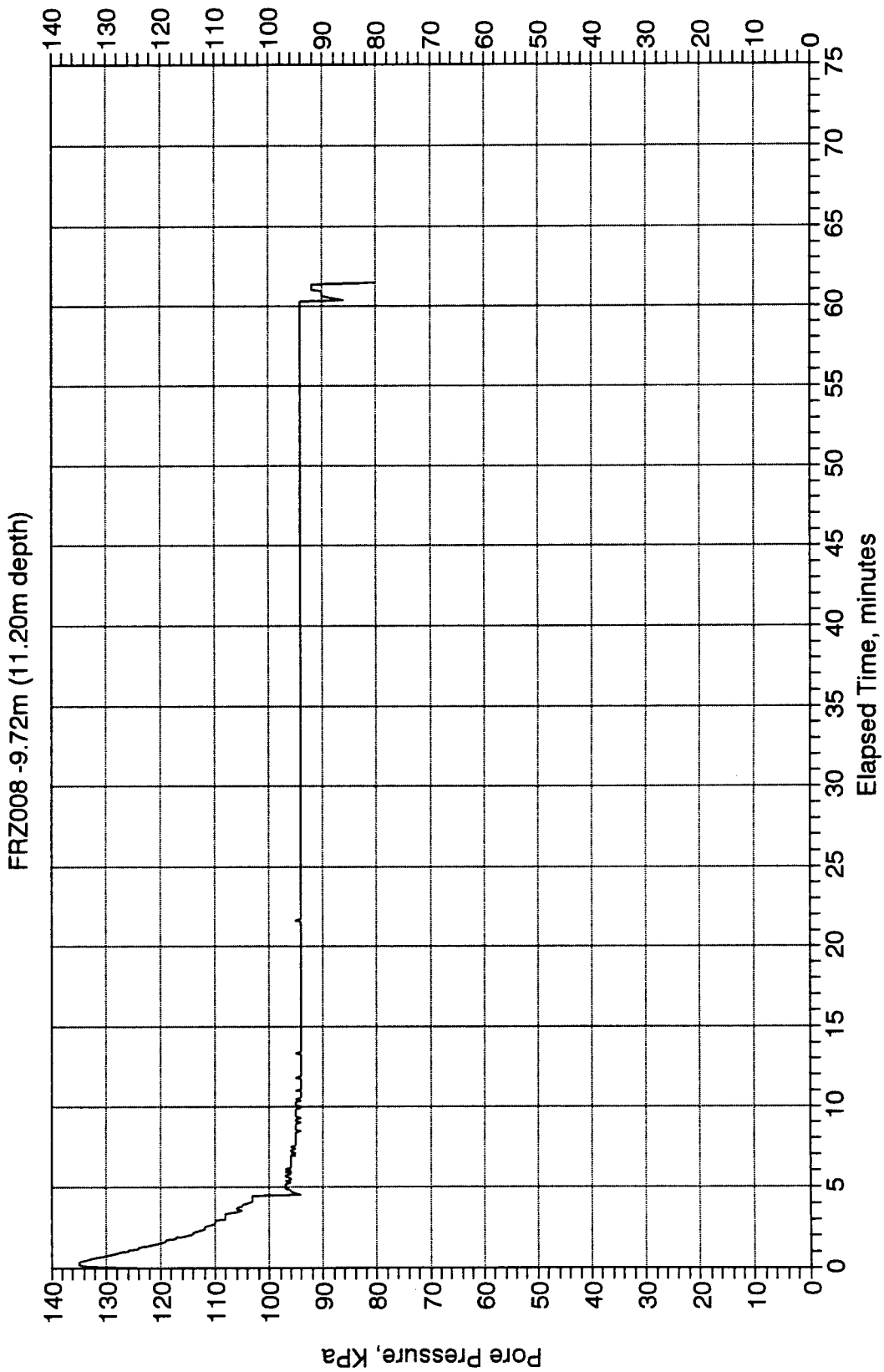

Figure I.12 FRZ008 Pore Pressure at Elev. -9.72 m

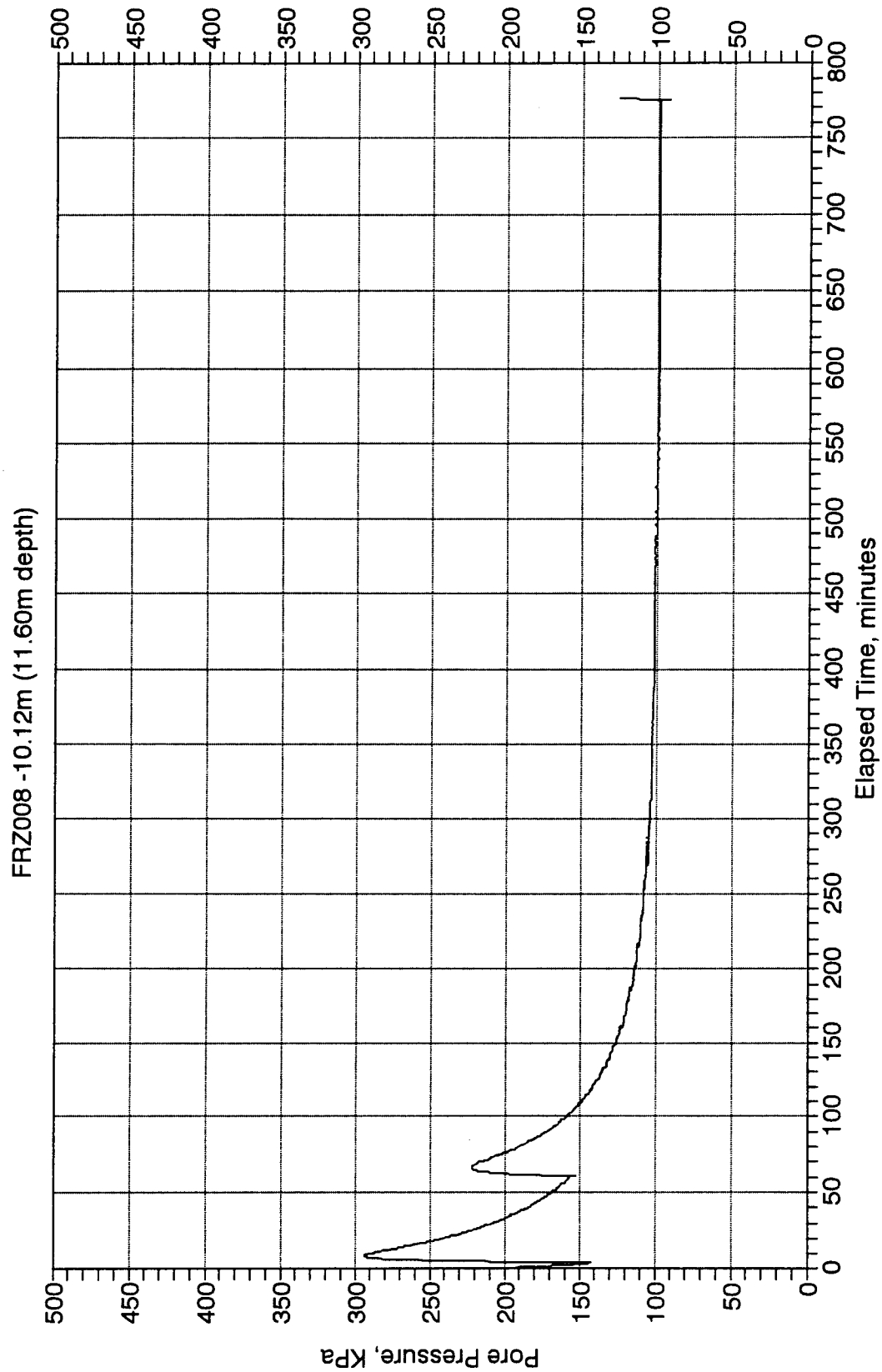

Figure I.13 FRZ008 Pore Pressure at Elev. -10.12 m

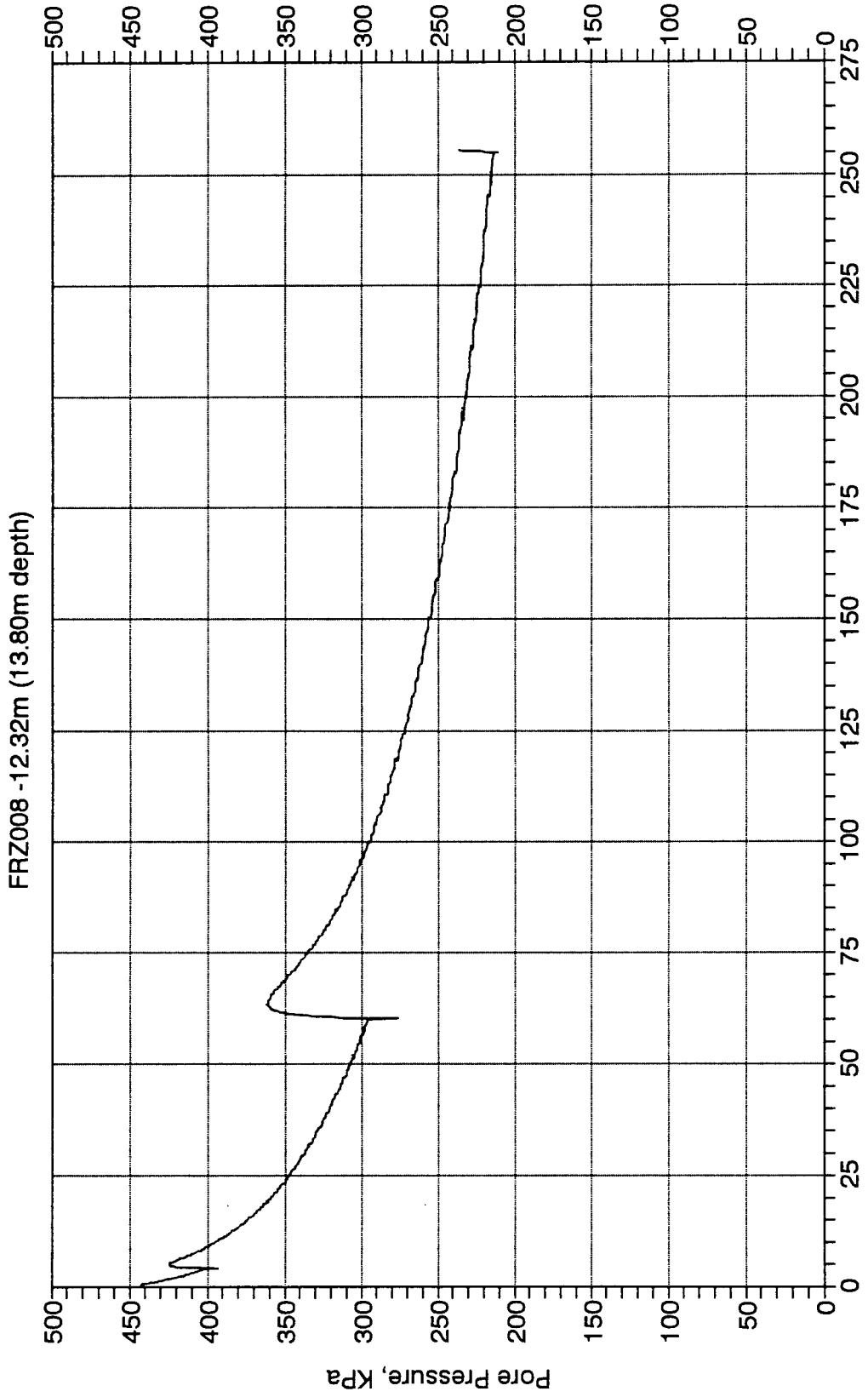

Figure I.14 FRZ008 Pore Pressure at Elev. -12.32 m

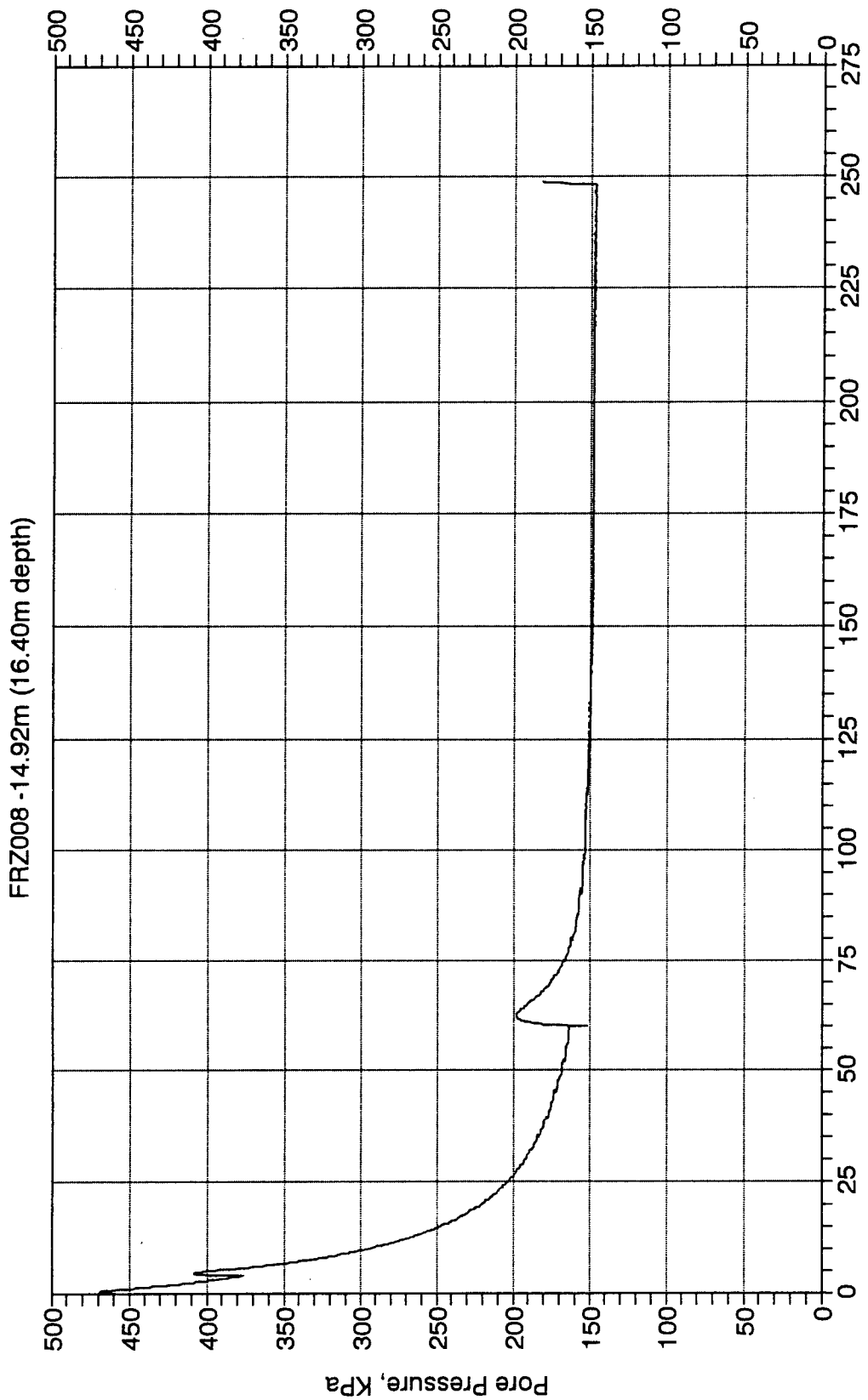

Figure I.15 FRZ008 Pore Pressure at Elev. -14.92 m

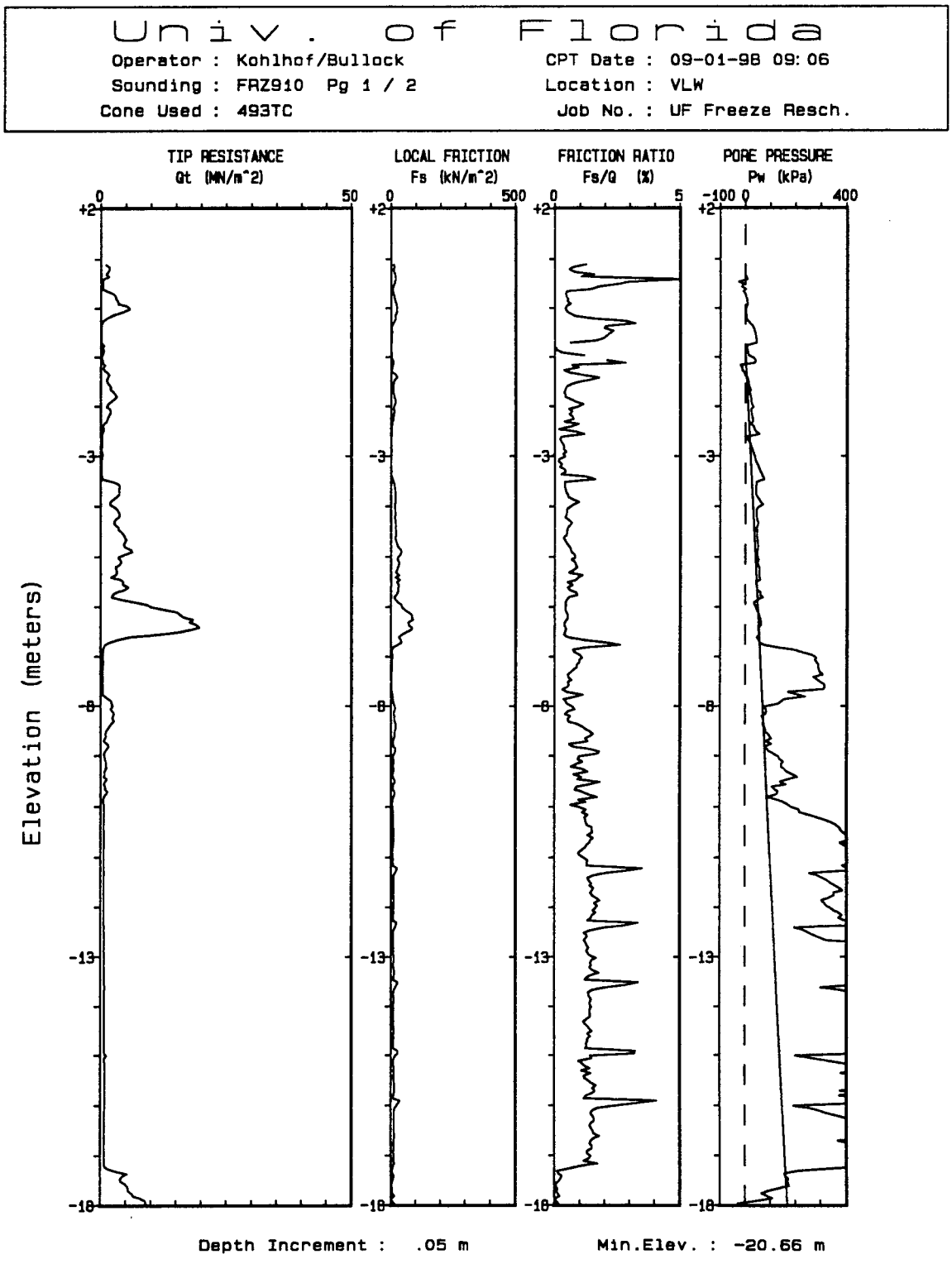

Figure I.16 CPT Sounding Profile at FRZ009/010

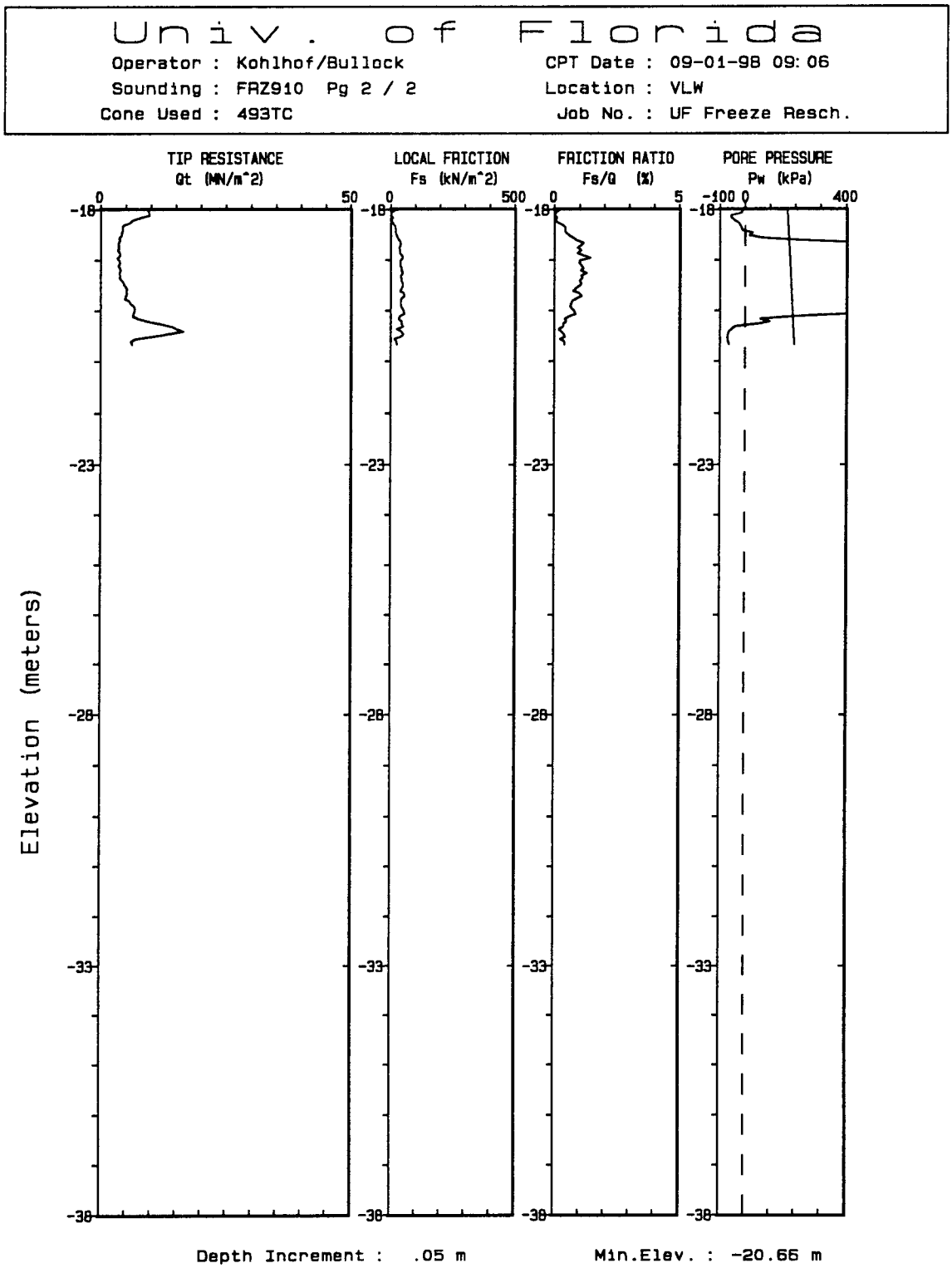

Figure I.16 continued

Table I.4 CPT Sounding FRZ009/010

SOUNDING DATA IN FILE FRZ910 09-01-98 09:06

OPERATOR : Kohlhof/Bullock LOCATION : VLW

CONE ID : 493TC JOB No. : UF Freeze Resch.

University of Florida
Geotechnical Engineering

DEPTH m	ELEV m	TIP Qc MPa	COR TIP Qt MPa	FRICTION Fs kPa	FR RATIO Fs/Qc %	PORE PR Pw kPa	PP RATIO Pw/Qc %	DPP RATIO Pw-Ph/Qc %	INC I deg	TEMP T degC	INTERPRETED SOIL TYPE	N SPT
0.05	0.89	0.95	0.95	11.8	1.24	0.0	0.00	0.00	0.02	30.12	?	7
0.10	0.84	1.79	1.79	12.9	0.72	-0.1	-0.01	-0.01	0.02	30.12	sandy silt to clayey silt	6
0.15	0.79	1.73	1.73	10.3	0.60	0.0	0.00	0.00	0.02	30.12	sandy silt to clayey silt	7
0.20	0.74	1.45	1.45	11.2	0.77	-2.0	-0.14	-0.14	0.02	30.12	sandy silt to clayey silt	6
0.25	0.69	1.07	1.07	16.8	1.57	0.0	0.00	0.00	0.02	30.12	sandy silt to clayey silt	6
0.30	0.64	1.66	1.66	17.8	1.07	2.2	0.13	0.13	0.02	30.12	clayey silt to silty clay	5
0.35	0.59	0.35	0.35	18.2	5.20	9.0	2.57	2.57	0.02	30.12	clayey silt to silty clay	4
0.40	0.54	0.50	0.49	14.4	2.88	-25.2	-5.04	-5.04	0.02	30.12	clay	4
0.45	0.49	0.48	0.48	12.2	2.54	-6.7	-1.40	-1.40	0.02	30.12	clay	5
0.50	0.44	0.47	0.47	8.2	1.74	-15.4	-3.28	-3.28	0.02	30.12	silty clay to clay	3
0.55	0.39	0.49	0.49	7.1	1.45	2.7	0.55	0.55	0.02	30.12	clayey silt to silty clay	4
0.60	0.34	1.39	1.39	6.5	0.47	-8.8	-0.63	-0.63	0.02	30.03	sandy silt to clayey silt	6
0.65	0.29	2.63	2.63	11.7	0.44	-0.8	-0.03	-0.03	0.02	29.85	silty sand to sandy silt	8
0.70	0.24	2.99	2.99	13.5	0.45	2.2	0.07	0.07	0.02	28.32	silty sand to sandy silt	10
0.75	0.19	3.02	3.02	15.9	0.53	6.3	0.21	0.21	0.02	28.26	silty sand to sandy silt	10
0.80	0.14	3.39	3.39	16.8	0.50	6.7	0.20	0.20	0.02	28.32	silty sand to sandy silt	11
0.85	0.09	3.49	3.49	22.0	0.63	7.6	0.22	0.22	0.02	28.23	silty sand to sandy silt	14
0.90	0.04	5.29	5.29	23.9	0.45	6.6	0.12	0.12	0.02	28.17	sand to silty sand	12
0.95	-0.01	5.78	5.78	24.0	0.42	0.1	0.00	0.00	0.02	28.20	sand to silty sand	13
1.00	-0.06	4.78	4.78	22.6	0.47	2.1	0.04	0.03	0.02	28.20	sand to silty sand	12
1.05	-0.11	3.58	3.58	21.3	0.59	2.4	0.07	0.04	0.02	28.17	silty sand to sandy silt	12
1.10	-0.16	2.11	2.11	17.4	0.82	4.2	0.20	0.12	0.02	28.17	sandy silt to clayey silt	9
1.15	-0.21	1.15	1.15	18.2	1.58	4.8	0.42	0.24	0.02	28.17	clayey silt to silty clay	6
1.20	-0.26	0.53	0.53	14.9	2.81	11.1	2.09	1.61	0.02	28.17	silty clay to clay	4
1.25	-0.31	0.27	0.27	8.8	3.26	18.1	6.70	5.58	0.02	28.17	clay	3
1.30	-0.36	0.18	0.19	3.8	2.11	28.5	15.83	13.87	0.02	28.17	clay	2
1.35	-0.41	0.15	0.16	3.1	2.07	33.7	22.47	19.79	0.02	28.11	sensitive fine grained	1
1.40	-0.46	0.15	0.16	3.7	2.47	36.6	24.40	21.39	0.02	28.17	sensitive fine grained	1
1.45	-0.51	0.16	0.17	3.7	2.31	39.4	24.63	21.50	0.02	28.11	sensitive fine grained	1
1.50	-0.56	0.15	0.16	3.3	2.20	40.5	27.00	23.34	0.02	28.08	sensitive fine grained	1
1.55	-0.61	0.15	0.16	3.1	2.07	42.8	28.53	24.55	0.02	27.89	sensitive fine grained	1
1.60	-0.66	0.15	0.16	2.6	1.73	44.2	29.47	25.15	0.02	27.77	sensitive fine grained	1
1.65	-0.71	0.18	0.19	1.2	0.67	45.0	25.00	21.13	0.02	27.77	sensitive fine grained	2
1.70	-0.76	0.67	0.67	-0.1	-0.01	5.6	0.84	-0.28	0.01	26.16	sensitive fine grained	2
1.75	-0.81	0.36	0.36	0.2	0.06	7.3	2.03	-0.18	0.01	26.19	sensitive fine grained	3
1.80	-0.86	0.68	0.68	0.6	0.09	7.6	1.12	-0.12	0.01	26.19	sensitive fine grained	3
1.85	-0.91	0.60	0.60	1.9	0.32	11.2	1.87	0.38	0.01	26.12	sensitive fine grained	3
1.90	-0.96	0.36	0.36	4.3	1.19	13.3	3.69	1.08	0.01	26.16	sensitive fine grained	2
1.95	-1.01	0.15	0.16	0.0	0.00	31.4	20.93	14.33	0.01	26.09	sensitive fine grained	2
2.00	-1.06	0.42	0.43	8.9	2.12	39.0	9.29	6.81	0.01	26.06	sensitive fine grained	1

Soil interpretation reference: Robertson & Campanella-1983, based on 60% hammer efficiency and .15 m sliding data average

Table I.4 continued

FRZ910 : VLW : 09-01-98 09:06 PAGE 2

DEPTH m	ELEV m	TIP Qc MPa	COR TIP Qt MPa	FRICTION Fs kPa	FR RATIO Fs/Qc %	PORE PR Pw kPa	PP RATIO Pw/Qc %	DPP RATIO Pw-Ph/Qc %	INC I deg	TEMP T degC	INTERPRETED SOIL TYPE	N SPT
2.05	-1.11	0.33	0.34	9.6	2.91	38.2	11.58	8.28	0.01	26.00	sensitive fine grained	3
2.10	-1.16	0.95	0.95	6.6	0.69	-20.3	-2.14	-3.33	0.01	26.00	sensitive fine grained	3
2.15	-1.21	0.61	0.61	5.7	0.93	-12.8	-2.10	-4.04	0.01	25.91	sensitive fine grained	4
2.20	-1.26	0.66	0.66	2.4	0.36	-13.5	-2.05	-3.92	0.01	25.85	sandy silt to clayey silt	3
2.25	-1.31	1.32	1.32	7.1	0.54	-4.2	-0.32	-1.29	0.01	25.76	sandy silt to clayey silt	5
2.30	-1.36	1.72	1.72	18.9	1.10	-1.0	-0.06	-0.83	0.01	25.76	sandy silt to clayey silt	6
2.35	-1.41	1.43	1.43	25.3	1.77	9.0	0.63	-0.34	0.01	25.73	sandy silt to clayey silt	6
2.40	-1.46	1.20	1.20	17.8	1.48	11.2	0.93	-0.26	0.01	25.73	clayey silt to silty clay	7
2.45	-1.51	1.27	1.27	11.6	0.91	13.3	1.05	-0.12	0.01	25.73	sandy silt to clayey silt	6
2.50	-1.56	1.72	1.72	10.3	0.60	13.7	0.80	-0.09	0.01	25.73	sandy silt to clayey silt	7
2.55	-1.61	2.11	2.11	9.6	0.45	15.7	0.74	-0.00	0.01	25.73	silty sand to sandy silt	6
2.60	-1.66	1.99	1.99	8.3	0.42	20.2	1.02	0.20	0.01	25.73	silty sand to sandy silt	7
2.65	-1.71	2.58	2.58	9.4	0.36	18.0	0.70	0.05	0.01	24.75	silty sand to sandy silt	8
2.70	-1.76	2.89	2.89	12.3	0.43	18.9	0.65	0.06	0.01	24.75	silty sand to sandy silt	10
2.75	-1.81	3.20	3.20	13.5	0.42	20.2	0.63	0.08	0.01	24.75	silty sand to sandy silt	10
2.80	-1.86	2.70	2.70	17.3	0.64	22.4	0.83	0.15	0.01	24.75	silty sand to sandy silt	9
2.85	-1.91	2.21	2.21	18.1	0.82	23.8	1.08	0.23	0.01	24.75	sandy silt to clayey silt	9
2.90	-1.96	1.47	1.47	16.8	1.14	24.8	1.69	0.38	0.01	24.75	sandy silt to clayey silt	7
2.95	-2.01	1.20	1.21	11.2	0.93	31.4	2.62	0.97	0.01	24.75	sandy silt to clayey silt	6
3.00	-2.06	1.83	1.83	10.5	0.57	22.2	1.21	0.11	0.01	24.75	sandy silt to clayey silt	7
3.05	-2.11	2.05	2.05	14.2	0.69	22.6	1.10	0.09	0.01	24.75	sandy silt to clayey silt	8
3.10	-2.16	1.83	1.83	10.7	0.58	24.7	1.35	0.19	0.01	24.75	sandy silt to clayey silt	7
3.15	-2.21	1.53	1.54	11.0	0.72	27.4	1.79	0.37	0.01	24.75	sandy silt to clayey silt	6
3.20	-2.26	1.35	1.36	10.3	0.76	29.2	2.16	0.52	0.01	24.75	sandy silt to clayey silt	5
3.25	-2.31	1.20	1.21	4.7	0.39	29.3	2.44	0.55	0.01	24.75	sandy silt to clayey silt	4
3.30	-2.36	0.74	0.74	7.0	0.95	20.2	2.73	-0.40	0.01	24.75	sensitive fine grained	4
3.35	-2.41	0.48	0.49	3.2	0.67	33.5	6.98	2.06	0.01	24.32	sensitive fine grained	3
3.40	-2.46	0.69	0.70	1.2	0.17	35.9	5.20	1.71	0.01	24.39	sensitive fine grained	3
3.45	-2.51	0.55	0.56	4.5	0.82	43.3	7.87	3.40	0.01	24.32	sensitive fine grained	2
3.50	-2.56	0.20	0.21	2.5	1.25	55.4	27.70	15.15	0.01	24.35	sensitive fine grained	2
3.55	-2.61	0.38	0.38	1.0	0.26	5.9	1.55	-5.18	0.01	23.65	sensitive fine grained	1
3.60	-2.66	0.28	0.28	0.6	0.21	11.2	4.00	-5.32	0.01	23.65	sensitive fine grained	2
3.65	-2.71	0.25	0.25	0.6	0.24	15.9	6.36	-4.27	0.01	23.56	sensitive fine grained	1
3.70	-2.76	0.35	0.35	1.2	0.34	20.1	5.74	-1.99	0.01	23.53	sensitive fine grained	1
3.75	-2.81	0.29	0.29	1.1	0.38	24.1	8.31	-1.19	0.01	23.50	sensitive fine grained	2
3.80	-2.86	0.28	0.29	1.0	0.36	27.2	9.71	-0.30	0.01	23.62	sensitive fine grained	1
3.85	-2.91	0.30	0.31	1.4	0.47	31.4	10.47	0.95	0.01	23.53	sensitive fine grained	2
3.90	-2.96	0.42	0.43	1.4	0.33	33.7	8.02	1.11	0.01	23.47	sensitive fine grained	2
3.95	-3.01	0.33	0.34	1.4	0.42	37.3	11.30	2.36	0.01	23.59	sensitive fine grained	2
4.00	-3.06	0.29	0.30	0.5	0.17	40.4	13.93	3.58	0.01	23.59	sensitive fine grained	1
4.05	-3.11	0.28	0.29	0.4	0.14	42.6	15.21	4.32	0.01	23.50	sensitive fine grained	1
4.10	-3.16	0.23	0.24	0.7	0.30	48.8	21.22	7.74	0.01	23.50	sensitive fine grained	1
4.15	-3.21	0.23	0.24	0.5	0.22	52.5	22.83	9.14	0.01	23.38	sensitive fine grained	1
4.20	-3.26	0.24	0.25	1.0	0.42	57.0	23.75	10.43	0.01	23.44	sensitive fine grained	1
4.25	-3.31	0.26	0.27	1.2	0.46	61.7	23.73	11.25	0.01	23.38	sensitive fine grained	1
4.30	-3.36	0.29	0.30	0.8	0.28	65.1	22.45	11.09	0.01	23.29	sensitive fine grained	1
4.35	-3.41	0.28	0.29	3.8	1.36	69.6	24.86	12.91	0.01	23.32	sensitive fine grained	2
4.40	-3.46	0.42	0.43	7.1	1.69	75.0	17.86	9.78	0.01	23.32	sandy silt to clayey silt	4
4.45	-3.51	2.58	2.59	10.1	0.39	44.7	1.73	0.40	0.01	23.29	silty sand to sandy silt	7
4.50	-3.56	3.66	3.67	14.2	0.39	43.9	1.20	0.25	0.01	23.32	silty sand to sandy silt	11

Soil interpretation reference: Robertson & Campanella-1983, based on 60% hammer efficiency and .15 m sliding data average

Table I.4 continued

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DEPTH m	ELEV m	TIP Qc MPa	COR TIP Qt MPa	FRICTION Fs kPa	FR RATIO Fs/Qc %	PORE PR Pw kPa	PP RATIO Pw/Qc %	DPP RATIO Pw-Ph/Qc %	INC I deg	TEMP T degC	INTERPRETED SOIL TYPE	N SPT
4.55	-3.61	3.88	3.89	15.5	0.40	41.8	1.08	0.16	0.01	23.29	silty sand to sandy silt	12
4.60	-3.66	3.68	3.69	16.4	0.45	42.6	1.16	0.18	0.01	23.29	silty sand to sandy silt	13
4.65	-3.71	3.74	3.75	16.7	0.45	42.5	1.14	0.16	0.01	22.80	silty sand to sandy silt	12
4.70	-3.76	3.76	3.77	19.5	0.52	42.6	1.13	0.15	0.01	22.80	silty sand to sandy silt	12
4.75	-3.81	3.15	3.16	17.0	0.54	49.4	1.57	0.38	0.01	22.80	silty sand to sandy silt	11
4.80	-3.86	2.62	2.63	18.8	0.72	54.7	2.09	0.64	0.01	22.80	silty sand to sandy silt	9
4.85	-3.91	1.99	2.00	19.3	0.97	60.7	3.05	1.12	0.01	22.80	sandy silt to clayey silt	9
4.90	-3.96	1.90	1.91	14.2	0.75	69.0	3.63	1.59	0.01	22.80	sandy silt to clayey silt	9
4.95	-4.01	2.67	2.68	16.1	0.60	51.9	1.94	0.47	0.01	22.80	silty sand to sandy silt	9
5.00	-4.06	3.34	3.35	16.1	0.48	45.0	1.35	0.16	0.01	22.80	silty sand to sandy silt	11
5.05	-4.11	3.68	3.69	17.5	0.48	44.9	1.22	0.12	0.01	22.80	silty sand to sandy silt	12
5.10	-4.16	3.82	3.83	18.0	0.47	44.9	1.18	0.11	0.01	22.80	silty sand to sandy silt	12
5.15	-4.21	3.64	3.65	15.5	0.43	44.9	1.23	0.10	0.01	22.80	silty sand to sandy silt	12
5.20	-4.26	3.01	3.02	16.1	0.53	46.7	1.55	0.16	0.01	22.83	silty sand to sandy silt	10
5.25	-4.31	2.70	2.71	18.2	0.67	50.5	1.87	0.30	0.01	22.83	silty sand to sandy silt	10
5.30	-4.36	2.90	2.91	18.2	0.63	51.5	1.78	0.30	0.01	22.92	silty sand to sandy silt	10
5.35	-4.41	3.48	3.49	18.1	0.52	44.2	1.27	0.03	0.01	22.95	silty sand to sandy silt	11
5.40	-4.46	3.54	3.55	18.0	0.51	45.9	1.30	0.06	0.01	22.98	silty sand to sandy silt	12
5.45	-4.51	4.15	4.16	20.0	0.48	47.1	1.13	0.07	0.01	22.98	silty sand to sandy silt	14
5.50	-4.56	4.64	4.65	22.0	0.47	47.1	1.02	0.05	0.01	23.07	sand to silty sand	11
5.55	-4.61	4.91	4.92	17.5	0.36	47.3	0.96	0.04	0.01	23.10	sand to silty sand	12
5.60	-4.66	5.11	5.12	20.0	0.39	47.8	0.94	0.04	0.01	23.10	sand to silty sand	12
5.65	-4.71	4.85	4.86	22.7	0.47	49.4	1.02	0.07	0.01	22.80	sand to silty sand	12
5.70	-4.76	4.62	4.63	24.6	0.53	51.1	1.11	0.10	0.01	22.80	sand to silty sand	12
5.75	-4.81	4.94	4.95	30.5	0.62	51.5	1.04	0.09	0.01	22.80	sand to silty sand	13
5.80	-4.86	6.14	6.15	40.3	0.66	49.5	0.81	0.03	0.01	22.80	sand to silty sand	15
5.85	-4.91	6.33	6.34	43.0	0.68	47.1	0.74	-0.02	0.01	22.83	sand to silty sand	14
5.90	-4.96	4.81	4.82	38.7	0.80	49.4	1.03	0.02	0.01	22.80	silty sand to sandy silt	16
5.95	-5.01	3.50	3.51	28.5	0.81	49.5	1.41	0.01	0.01	22.80	silty sand to sandy silt	14
6.00	-5.06	3.87	3.88	25.9	0.67	52.7	1.36	0.08	0.01	22.80	silty sand to sandy silt	13
6.05	-5.11	4.21	4.22	34.3	0.81	49.4	1.17	-0.02	0.01	22.80	silty sand to sandy silt	13
6.10	-5.16	3.76	3.77	31.8	0.85	51.6	1.37	0.03	0.01	22.80	silty sand to sandy silt	12
6.15	-5.21	3.03	3.04	27.3	0.90	53.9	1.78	0.09	0.01	22.89	silty sand to sandy silt	11
6.20	-5.26	3.15	3.16	24.6	0.78	56.1	1.78	0.14	0.01	22.83	silty sand to sandy silt	11
6.25	-5.31	3.34	3.35	19.4	0.58	53.9	1.61	0.05	0.01	23.04	silty sand to sandy silt	10
6.30	-5.36	2.96	2.97	33.3	1.13	54.3	1.83	0.06	0.01	22.98	silty sand to sandy silt	9
6.35	-5.41	2.11	2.12	19.9	0.94	56.1	2.66	0.14	0.01	23.13	silty sand to sandy silt	10
6.40	-5.46	4.17	4.18	35.1	0.84	58.4	1.40	0.12	0.01	23.23	silty sand to sandy silt	12
6.45	-5.51	4.52	4.53	23.9	0.53	42.2	0.93	-0.26	0.01	23.29	silty sand to sandy silt	15
6.50	-5.56	4.51	4.52	31.8	0.71	44.9	1.00	-0.21	0.01	23.29	sand to silty sand	12
6.55	-5.61	5.59	5.60	29.7	0.53	47.0	0.84	-0.14	0.01	23.29	sand to silty sand	12
6.60	-5.66	4.72	4.73	29.2	0.62	47.3	1.00	-0.17	0.01	23.26	silty sand to sandy silt	15
6.65	-5.71	3.22	3.23	27.9	0.87	60.6	1.88	0.14	0.01	22.80	silty sand to sandy silt	11
6.70	-5.76	2.32	2.33	20.9	0.90	60.3	2.60	0.16	0.01	22.80	silty sand to sandy silt	9
6.75	-5.81	2.27	2.28	12.9	0.57	69.3	3.05	0.54	0.01	22.80	silty sand to sandy silt	10
6.80	-5.86	4.23	4.24	20.0	0.47	49.4	1.17	-0.19	0.01	22.86	sand to silty sand	11
6.85	-5.91	7.16	7.17	29.8	0.42	33.7	0.47	-0.34	0.01	22.89	sand to silty sand	17
6.90	-5.96	9.20	9.21	42.1	0.46	38.2	0.42	-0.22	0.01	22.80	sand to silty sand	22
6.95	-6.01	10.31	10.32	44.1	0.43	42.8	0.42	-0.16	0.01	22.83	sand	22
7.00	-6.06	12.94	12.95	56.9	0.44	46.9	0.36	-0.10	0.01	22.80	sand	26

Soil interpretation reference: Robertson & Campanella-1983, based on 60% hammer efficiency and .15 m sliding data average

Table I.4 continued

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DEPTH m	ELEV m	TIP Qc MPa	COR TIP Qt MPa	FRICTION Fs kPa	FR RATIO Fs/Qc %	PORE PR Pw kPa	PP RATIO Pw/Qc %	DPP RATIO Pw-Ph/Qc %	INC I deg	TEMP T degC	INTERPRETED SOIL TYPE	N SPT
7.05	-6.11	15.14	15.15	69.5	0.46	51.6	0.34	-0.05	0.01	22.86	sand	29
7.10	-6.16	15.82	15.83	83.9	0.53	55.7	0.35	-0.03	0.01	22.80	sand	32
7.15	-6.21	16.58	16.59	86.0	0.52	58.2	0.35	-0.02	0.01	22.89	sand	34
7.20	-6.26	18.41	18.42	88.3	0.48	61.2	0.33	-0.00	0.01	22.80	sand	35
7.25	-6.31	17.75	17.76	69.4	0.39	61.2	0.34	-0.00	0.01	22.89	sand	37
7.30	-6.36	19.11	19.12	72.5	0.38	63.8	0.33	0.01	0.01	23.07	sand	38
7.35	-6.41	19.67	19.68	85.4	0.43	51.8	0.26	-0.06	0.01	23.44	sand	38
7.40	-6.46	18.13	18.14	82.5	0.46	52.7	0.29	-0.06	0.01	23.44	sand	36
7.45	-6.51	15.50	15.51	62.2	0.40	55.1	0.36	-0.06	0.01	23.47	sand	30
7.50	-6.56	11.90	11.91	45.1	0.38	56.1	0.47	-0.07	0.01	23.62	sand	22
7.55	-6.61	5.82	5.83	32.0	0.55	46.4	0.80	-0.32	0.01	22.31	sand to silty sand	18
7.60	-6.66	3.48	3.49	40.9	1.18	51.9	1.49	-0.39	0.01	22.31	silty sand to sandy silt	13
7.65	-6.71	1.98	1.99	41.4	2.09	57.5	2.90	-0.42	0.01	22.31	sandy silt to clayey silt	9
7.70	-6.76	1.00	1.01	26.6	2.66	71.7	7.17	0.54	0.01	22.31	clayey silt to silty clay	6
7.75	-6.81	0.61	0.64	7.9	1.30	127.5	20.90	9.95	0.01	22.31	clayey silt to silty clay	4
7.80	-6.86	0.56	0.60	4.4	0.79	190.8	34.07	22.06	0.01	22.37	sensitive fine grained	3
7.85	-6.91	0.54	0.59	4.7	0.87	226.8	42.00	29.45	0.01	22.31	sensitive fine grained	3
7.90	-6.96	0.49	0.54	5.5	1.12	264.8	54.04	40.11	0.01	22.31	sensitive fine grained	3
7.95	-7.01	0.48	0.54	5.8	1.21	281.8	58.71	44.39	0.01	22.43	sensitive fine grained	2
8.00	-7.06	0.48	0.54	5.3	1.10	276.1	57.52	43.10	0.01	22.37	sensitive fine grained	2
8.05	-7.11	0.47	0.53	5.2	1.11	282.8	60.17	45.33	0.01	22.49	sensitive fine grained	2
8.10	-7.16	0.48	0.54	4.7	0.98	290.5	60.52	45.89	0.01	22.55	sensitive fine grained	2
8.15	-7.21	0.43	0.49	4.3	1.00	287.3	66.81	50.37	0.01	22.58	sensitive fine grained	2
8.20	-7.26	0.42	0.48	3.5	0.83	292.5	69.64	52.69	0.01	22.49	sensitive fine grained	2
8.25	-7.31	0.42	0.48	3.1	0.74	294.0	70.00	52.93	0.01	22.65	sensitive fine grained	2
8.30	-7.36	0.42	0.48	2.5	0.60	307.5	73.21	56.03	0.01	22.68	sensitive fine grained	2
8.35	-7.41	0.42	0.47	2.6	0.62	272.0	64.76	47.46	0.01	22.74	sensitive fine grained	2
8.40	-7.46	0.42	0.48	3.2	0.76	285.0	67.86	50.44	0.01	22.80	sensitive fine grained	2
8.45	-7.51	0.42	0.48	2.5	0.60	297.4	70.81	53.27	0.01	22.77	sensitive fine grained	2
8.50	-7.56	0.42	0.48	2.7	0.64	314.2	74.81	57.16	0.01	22.80	sensitive fine grained	2
8.55	-7.61	0.42	0.48	2.5	0.60	315.2	75.05	57.28	0.01	22.74	sensitive fine grained	2
8.60	-7.66	0.48	0.54	1.7	0.35	309.2	64.42	48.77	0.01	22.77	sensitive fine grained	2
8.65	-7.71	0.48	0.51	2.5	0.52	170.7	35.56	19.81	0.01	22.31	sensitive fine grained	2
8.70	-7.76	0.48	0.52	5.9	1.23	206.8	43.08	27.23	0.01	22.34	sensitive fine grained	3
8.75	-7.81	0.87	0.92	7.5	0.86	237.2	27.26	18.46	0.01	22.40	sandy silt to clayey silt	4
8.80	-7.86	1.60	1.63	5.7	0.36	154.9	9.68	4.86	0.01	22.31	sandy silt to clayey silt	6
8.85	-7.91	2.14	2.17	9.7	0.45	144.8	6.77	3.14	0.01	22.31	silty sand to sandy silt	7
8.90	-7.96	2.24	2.27	11.5	0.51	129.6	5.79	2.30	0.01	22.31	silty sand to sandy silt	8
8.95	-8.01	2.45	2.47	17.6	0.72	76.3	3.11	-0.09	0.01	22.31	silty sand to sandy silt	8
9.00	-8.06	2.08	2.10	16.9	0.81	83.0	3.99	0.19	0.01	22.31	silty sand to sandy silt	8
9.05	-8.11	2.35	2.37	12.2	0.52	84.7	3.60	0.22	0.01	22.37	silty sand to sandy silt	8
9.10	-8.16	2.64	2.66	11.3	0.43	79.3	3.00	-0.03	0.01	22.31	silty sand to sandy silt	8
9.15	-8.21	2.43	2.44	15.5	0.64	65.4	2.69	-0.62	0.01	22.31	silty sand to sandy silt	8
9.20	-8.26	2.32	2.33	12.3	0.53	71.7	3.09	-0.40	0.01	22.31	silty sand to sandy silt	8
9.25	-8.31	2.64	2.65	14.2	0.54	71.3	2.70	-0.39	0.01	22.31	silty sand to sandy silt	8
9.30	-8.36	2.26	2.27	19.4	0.86	69.3	3.07	-0.56	0.01	22.31	sandy silt to clayey silt	9
9.35	-8.41	1.78	1.79	19.4	1.09	74.1	4.16	-0.47	0.01	22.34	sandy silt to clayey silt	7
9.40	-8.46	1.46	1.48	18.2	1.25	80.4	5.51	-0.18	0.01	22.34	sandy silt to clayey silt	6
9.45	-8.51	1.07	1.09	15.6	1.46	80.8	7.55	-0.25	0.01	22.31	clayey silt to silty clay	6
9.50	-8.56	0.94	0.96	14.8	1.57	92.2	9.81	0.88	0.01	22.31	clayey silt to silty clay	5

Soil interpretation reference: Robertson & Campanella-1983, based on 60% hammer efficiency and .15 m sliding data average

Table I.4 continued

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DEPTH m	ELEV m	TIP Qc MPa	COR TIP Qt MPa	FRICTION Fs kPa	FR RATIO Fs/Qc %	PORE PR Pw kPa	PP RATIO Pw/Qc %	DPP RATIO Pw-Ph/Qc %	INC I deg	TEMP T degC	INTERPRETED SOIL TYPE	N SPT
9.55	-8.61	1.09	1.11	15.4	1.41	98.6	9.05	1.30	0.01	22.31	clayey silt to silty clay	5
9.60	-8.66	0.88	0.90	11.0	1.25	103.2	11.73	2.08	0.01	22.31	clayey silt to silty clay	4
9.65	-8.71	0.61	0.63	8.3	1.36	83.0	13.61	-0.40	0.01	22.40	clayey silt to silty clay	5
9.70	-8.76	1.34	1.36	7.8	0.58	103.2	7.70	1.29	0.01	22.37	sandy silt to clayey silt	5
9.75	-8.81	1.59	1.61	11.7	0.74	78.7	4.95	-0.48	0.01	22.34	sandy silt to clayey silt	6
9.80	-8.86	1.30	1.32	18.1	1.39	87.5	6.73	0.05	0.01	22.43	sandy silt to clayey silt	5
9.85	-8.91	0.94	0.96	17.2	1.83	94.5	10.05	0.76	0.01	22.52	clayey silt to silty clay	5
9.90	-8.96	0.71	0.73	12.6	1.77	112.6	15.86	3.48	0.01	22.49	clayey silt to silty clay	4
9.95	-9.01	0.74	0.77	7.6	1.03	132.0	17.84	5.90	0.01	22.49	clayey silt to silty clay	4
10.00	-9.06	0.82	0.85	7.8	0.95	138.3	16.87	6.03	0.01	22.55	clayey silt to silty clay	4
10.05	-9.11	1.07	1.10	12.3	1.15	151.8	14.19	5.84	0.01	22.52	clayey silt to silty clay	5
10.10	-9.16	1.06	1.09	9.3	0.88	143.5	13.54	5.06	0.01	22.52	sandy silt to clayey silt	4
10.15	-9.21	1.13	1.16	7.7	0.68	144.1	12.75	4.76	0.01	22.58	sandy silt to clayey silt	5
10.20	-9.26	1.19	1.22	13.2	1.11	154.3	12.97	5.34	0.01	22.62	sandy silt to clayey silt	4
10.25	-9.31	0.81	0.84	11.1	1.37	164.0	20.25	8.97	0.01	22.68	clayey silt to silty clay	5
10.30	-9.36	0.86	0.90	7.0	0.81	187.0	21.74	11.07	0.01	22.65	clayey silt to silty clay	4
10.35	-9.41	0.68	0.72	7.7	1.13	208.7	30.69	17.12	0.01	22.68	clayey silt to silty clay	5
10.40	-9.46	1.33	1.36	12.6	0.95	173.0	13.01	6.03	0.01	22.68	clayey silt to silty clay	5
10.45	-9.51	0.87	0.90	16.2	1.86	138.9	15.97	5.25	0.01	22.68	clayey silt to silty clay	5
10.50	-9.56	0.63	0.66	8.9	1.41	162.3	25.76	10.88	0.01	22.77	clayey silt to silty clay	4
10.55	-9.61	0.93	0.95	8.3	0.89	109.1	11.73	1.60	0.02	22.65	clayey silt to silty clay	4
10.60	-9.66	0.83	0.85	7.0	0.84	118.9	14.33	2.91	0.02	22.58	sandy silt to clayey silt	4
10.65	-9.71	1.39	1.42	15.6	1.12	130.2	9.37	2.52	0.02	22.65	clayey silt to silty clay	5
10.70	-9.76	1.07	1.10	15.0	1.40	125.5	11.73	2.78	0.02	22.62	clayey silt to silty clay	5
10.75	-9.81	0.64	0.66	11.2	1.75	91.4	14.28	-0.75	0.02	22.46	clayey silt to silty clay	4
10.80	-9.86	0.55	0.58	5.6	1.02	127.9	23.25	5.67	0.02	22.46	sensitive fine grained	3
10.85	-9.91	0.55	0.58	7.2	1.31	152.2	27.67	10.00	0.02	22.52	sensitive fine grained	3
10.90	-9.96	0.68	0.71	4.6	0.68	170.7	25.10	10.74	0.02	22.43	sensitive fine grained	3
10.95	-10.01	0.68	0.72	6.9	1.01	181.7	26.72	12.28	0.02	22.46	sensitive fine grained	3
11.00	-10.06	0.61	0.65	8.2	1.34	213.2	34.95	18.78	0.02	22.55	sensitive fine grained	3
11.05	-10.11	0.77	0.81	9.1	1.18	215.5	27.99	15.11	0.02	22.49	sensitive fine grained	3
11.10	-10.16	0.58	0.63	8.3	1.43	251.4	43.34	26.17	0.02	22.62	sensitive fine grained	3
11.15	-10.21	0.59	0.65	7.8	1.32	282.8	47.93	30.96	0.02	22.55	sensitive fine grained	3
11.20	-10.26	0.61	0.67	8.3	1.36	315.8	51.77	35.28	0.02	22.71	sensitive fine grained	3
11.25	-10.31	0.60	0.67	8.3	1.38	339.9	56.65	39.80	0.02	22.62	sensitive fine grained	3
11.30	-10.36	0.59	0.66	8.6	1.46	359.8	60.98	43.76	0.02	22.68	sensitive fine grained	3
11.35	-10.41	0.59	0.66	9.9	1.68	372.4	63.12	45.82	0.02	22.74	clayey silt to silty clay	3
11.40	-10.46	0.61	0.69	10.3	1.69	379.4	62.20	45.38	0.02	22.77	clayey silt to silty clay	3
11.45	-10.51	0.64	0.72	10.9	1.70	388.1	60.64	44.54	0.02	22.68	clayey silt to silty clay	3
11.50	-10.56	0.68	0.76	10.1	1.49	401.7	59.07	43.84	0.02	22.62	clayey silt to silty clay	3
11.55	-10.61	0.66	0.74	11.5	1.74	415.2	62.91	47.14	0.02	22.77	clayey silt to silty clay	3
11.60	-10.66	0.68	0.76	10.9	1.60	414.9	61.01	45.64	0.02	22.71	clayey silt to silty clay	3
11.65	-10.71	0.67	0.75	10.3	1.54	376.1	56.13	40.46	0.02	22.71	clayey silt to silty clay	3
11.70	-10.76	0.67	0.75	9.6	1.43	389.7	58.16	42.41	0.02	22.77	clayey silt to silty clay	3
11.75	-10.81	0.62	0.70	8.6	1.39	404.0	65.16	48.06	0.02	22.77	clayey silt to silty clay	3
11.80	-10.86	0.61	0.69	7.4	1.21	419.8	68.82	51.36	0.02	22.77	sensitive fine grained	3
11.85	-10.91	0.58	0.67	6.3	1.09	437.2	75.38	56.93	0.02	22.80	sensitive fine grained	3
11.90	-10.96	0.61	0.70	7.2	1.18	445.9	73.10	55.48	0.02	22.80	sensitive fine grained	3
11.95	-11.01	0.61	0.69	8.3	1.36	404.0	66.23	48.53	0.02	22.80	sensitive fine grained	3
12.00	-11.06	0.61	0.69	9.3	1.52	421.9	69.16	51.38	0.02	22.80	clayey silt to silty clay	3

Soil interpretation reference: Robertson & Campanella-1983, based on 60% hammer efficiency and .15 m sliding data average

Table I.4 continued

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DEPTH m	ELEV m	TIP Qc MPa	COR TIP Qt MPa	FRICTION Fs kPa	FR RATIO Fs/Qc %	PORE PR Pw kPa	PP RATIO Pw/Qc %	DPP RATIO Pw-Ph/Qc %	INC I deg	TEMP T degC	INTERPRETED SOIL TYPE	N SPT
12.05	-11.11	0.62	0.71	9.1	1.47	429.7	69.31	51.73	0.02	22.80	clayey silt to silty clay	3
12.10	-11.16	0.63	0.71	9.2	1.46	386.4	61.33	43.96	0.02	22.77	silty clay to clay	4
12.15	-11.21	0.63	0.71	25.0	3.97	404.0	64.13	46.68	0.02	22.80	silty clay to clay	4
12.20	-11.26	0.62	0.70	20.8	3.35	417.4	67.32	49.51	0.02	22.80	silty clay to clay	4
12.25	-11.31	0.75	0.80	16.1	2.15	255.9	34.12	19.33	0.02	22.83	silty clay to clay	5
12.30	-11.36	0.68	0.74	11.6	1.71	283.9	41.75	25.37	0.02	22.80	clayey silt to silty clay	3
12.35	-11.41	0.66	0.72	9.6	1.45	306.2	46.39	29.44	0.02	22.80	clayey silt to silty clay	3
12.40	-11.46	0.66	0.73	10.0	1.52	325.6	49.33	32.30	0.02	22.80	clayey silt to silty clay	3
12.45	-11.51	0.64	0.71	10.4	1.63	339.3	53.02	35.38	0.02	22.80	clayey silt to silty clay	3
12.50	-11.56	0.65	0.72	10.2	1.57	357.1	54.94	37.50	0.02	22.86	clayey silt to silty clay	3
12.55	-11.61	0.64	0.71	11.1	1.73	371.9	58.11	40.32	0.02	22.83	clayey silt to silty clay	3
12.60	-11.66	0.65	0.73	10.8	1.66	386.0	59.38	41.79	0.02	22.80	clayey silt to silty clay	3
12.65	-11.71	0.61	0.68	9.8	1.61	352.4	57.77	38.94	0.02	22.80	clayey silt to silty clay	3
12.70	-11.76	0.61	0.68	10.3	1.69	351.2	57.57	38.67	0.02	22.80	clayey silt to silty clay	3
12.75	-11.81	0.62	0.69	11.6	1.87	331.7	53.50	34.82	0.02	22.80	silty clay to clay	4
12.80	-11.86	0.61	0.67	12.2	2.00	302.4	49.57	30.51	0.02	22.83	silty clay to clay	4
12.85	-11.91	0.62	0.68	10.9	1.76	313.8	50.61	31.77	0.02	22.80	silty clay to clay	4
12.90	-11.96	0.61	0.67	11.5	1.89	320.9	52.61	33.38	0.02	22.86	silty clay to clay	4
12.95	-12.01	0.61	0.68	11.1	1.82	336.7	55.20	35.89	0.02	22.83	clayey silt to silty clay	3
13.00	-12.06	0.62	0.69	10.6	1.71	350.1	56.47	37.39	0.02	22.80	clayey silt to silty clay	3
13.05	-12.11	0.61	0.68	11.2	1.84	369.8	60.62	41.15	0.02	22.80	clayey silt to silty clay	3
13.10	-12.16	0.62	0.70	10.5	1.69	384.5	62.02	42.78	0.02	22.80	clayey silt to silty clay	3
13.15	-12.21	0.61	0.68	10.0	1.64	371.4	60.89	41.26	0.02	22.80	clayey silt to silty clay	3
13.20	-12.26	0.61	0.69	9.1	1.49	393.2	64.46	44.75	0.04	22.80	silty clay to clay	4
13.25	-12.31	0.62	0.70	23.5	3.79	415.2	66.97	47.50	0.05	22.80	silty clay to clay	4
13.30	-12.36	0.63	0.72	20.3	3.22	428.5	68.02	48.78	0.05	22.80	silty clay to clay	4
13.35	-12.41	0.76	0.80	16.1	2.12	196.4	25.84	9.83	0.05	22.86	silty clay to clay	5
13.40	-12.46	0.69	0.74	10.9	1.58	229.8	33.30	15.59	0.05	22.86	clayey silt to silty clay	4
13.45	-12.51	0.71	0.76	9.0	1.27	255.0	35.92	18.64	0.05	22.98	clayey silt to silty clay	4
13.50	-12.56	0.73	0.78	10.3	1.41	274.2	37.56	20.69	0.05	22.95	clayey silt to silty clay	4
13.55	-12.61	0.72	0.78	9.8	1.36	296.3	41.15	23.98	0.05	22.98	clayey silt to silty clay	4
13.60	-12.66	0.72	0.78	9.2	1.28	318.6	44.25	27.01	0.05	23.01	clayey silt to silty clay	3
13.65	-12.71	0.65	0.75	9.4	1.45	485.8	74.74	55.56	0.37	22.80	clayey silt to silty clay	3
13.70	-12.76	0.65	0.74	9.5	1.46	439.6	67.63	48.38	0.37	22.80	clayey silt to silty clay	3
13.75	-12.81	0.66	0.75	10.2	1.55	439.9	66.65	47.62	0.37	22.80	clayey silt to silty clay	3
13.80	-12.86	0.65	0.74	9.5	1.46	426.8	65.66	46.26	0.37	22.80	clayey silt to silty clay	3
13.85	-12.91	0.66	0.75	9.9	1.50	455.3	68.98	49.80	0.37	22.80	clayey silt to silty clay	3
13.90	-12.96	0.68	0.77	10.8	1.59	426.1	62.66	43.97	0.37	22.80	clayey silt to silty clay	3
13.95	-13.01	0.68	0.77	12.8	1.88	430.9	63.37	44.60	0.37	22.80	clayey silt to silty clay	3
14.00	-13.06	0.71	0.80	12.0	1.69	426.7	60.10	42.06	0.37	22.80	clayey silt to silty clay	4
14.05	-13.11	0.71	0.79	11.4	1.61	406.2	57.21	39.10	0.37	22.77	clayey silt to silty clay	3
14.10	-13.16	0.66	0.74	11.0	1.67	411.0	62.27	42.72	0.37	22.80	clayey silt to silty clay	3
14.15	-13.21	0.72	0.80	11.4	1.58	417.4	57.97	39.98	0.37	22.77	clayey silt to silty clay	4
14.20	-13.26	0.72	0.80	12.1	1.68	402.2	55.86	37.80	0.37	22.80	clayey silt to silty clay	4
14.25	-13.31	0.72	0.80	14.2	1.97	421.9	58.60	40.47	0.37	22.80	clayey silt to silty clay	4
14.30	-13.36	0.72	0.81	12.1	1.68	431.2	59.89	41.69	0.37	22.80	clayey silt to silty clay	4
14.35	-13.41	0.72	0.81	10.3	1.43	437.5	60.76	42.50	0.37	22.80	clayey silt to silty clay	4
14.40	-13.46	0.68	0.77	9.4	1.38	439.9	64.69	45.28	0.37	22.80	silty clay to clay	5
14.45	-13.51	0.71	0.80	26.9	3.79	446.2	62.85	44.18	0.37	22.80	silty clay to clay	5
14.50	-13.56	0.72	0.81	23.2	3.22	435.1	60.43	41.96	0.37	22.80	silty clay to clay	5

Soil interpretation reference: Robertson & Campanella-1983, based on 60% hammer efficiency and .15 m sliding data average

Table I.4 continued

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DEPTH m	ELEV m	TIP Qc MPa	COR TIP Qt MPa	FRICTION Fs kPa	FR RATIO Fs/Qc %	PORE PR Pw kPa	PP RATIO Pw/Qc %	DPP RATIO Pw-Ph/Qc %	INC I deg	TEMP T degC	INTERPRETED SOIL TYPE	N SPT
14.55	-13.61	0.81	0.87	17.7	2.19	301.7	37.25	20.77	0.32	22.83	silty clay to clay	5
14.60	-13.66	0.74	0.81	12.7	1.72	370.3	50.04	31.94	0.32	22.83	clayey silt to silty clay	4
14.65	-13.71	0.72	0.80	10.8	1.50	417.2	57.94	39.27	0.32	22.80	clayey silt to silty clay	4
14.70	-13.76	0.73	0.82	11.2	1.53	458.0	62.74	44.25	0.32	22.83	clayey silt to silty clay	4
14.75	-13.81	0.73	0.82	11.6	1.59	447.0	61.23	42.68	0.32	22.80	clayey silt to silty clay	4
14.80	-13.86	0.72	0.81	12.0	1.67	447.2	62.11	43.23	0.32	22.83	clayey silt to silty clay	4
14.85	-13.91	0.72	0.81	11.5	1.60	446.6	62.03	43.08	0.32	22.86	clayey silt to silty clay	4
14.90	-13.96	0.72	0.81	11.4	1.58	437.8	60.81	41.79	0.31	22.89	clayey silt to silty clay	4
14.95	-14.01	0.72	0.81	11.9	1.65	443.0	61.53	42.44	0.31	22.92	clayey silt to silty clay	4
15.00	-14.06	0.73	0.82	11.6	1.59	430.9	59.03	40.14	0.31	22.92	clayey silt to silty clay	4
15.05	-14.11	0.72	0.81	11.4	1.58	426.6	59.25	40.03	0.27	22.92	clayey silt to silty clay	4
15.10	-14.16	0.72	0.81	11.6	1.61	442.1	61.40	42.12	0.27	23.04	clayey silt to silty clay	4
15.15	-14.21	0.72	0.81	11.6	1.61	437.2	60.72	41.37	0.27	23.04	clayey silt to silty clay	4
15.20	-14.26	0.73	0.82	10.7	1.47	428.7	58.73	39.57	0.27	23.07	clayey silt to silty clay	4
15.25	-14.31	0.73	0.83	9.6	1.32	475.9	65.19	45.97	0.27	23.01	clayey silt to silty clay	4
15.30	-14.36	0.73	0.82	10.2	1.40	466.0	63.84	44.54	0.27	23.01	clayey silt to silty clay	4
15.35	-14.41	0.72	0.81	10.8	1.50	448.9	62.35	42.72	0.27	23.10	clayey silt to silty clay	4
15.40	-14.46	0.72	0.81	11.4	1.58	431.1	59.88	40.18	0.27	23.10	clayey silt to silty clay	4
15.45	-14.51	0.72	0.81	12.0	1.67	435.4	60.47	40.71	0.27	23.16	clayey silt to silty clay	4
15.50	-14.56	0.72	0.81	10.7	1.49	446.6	62.03	42.20	0.27	23.10	clayey silt to silty clay	4
15.55	-14.61	0.72	0.81	11.7	1.62	468.8	65.11	45.21	0.27	23.16	clayey silt to silty clay	4
15.60	-14.66	0.72	0.82	10.7	1.49	482.7	67.04	47.07	0.27	23.04	clayey silt to silty clay	4
15.65	-14.71	0.71	0.81	10.7	1.51	482.5	67.96	47.64	0.26	22.80	clayey silt to silty clay	4
15.70	-14.76	0.72	0.82	10.3	1.43	486.2	67.53	47.42	0.26	22.80	clayey silt to silty clay	4
15.75	-14.81	0.75	0.84	10.8	1.44	453.4	60.45	41.09	0.26	22.80	clayey silt to silty clay	4
15.80	-14.86	0.72	0.82	10.2	1.42	478.0	66.39	46.15	0.26	22.80	clayey silt to silty clay	4
15.85	-14.91	0.72	0.82	26.4	3.67	478.5	66.46	46.15	0.26	22.80	silty clay to clay	5
15.90	-14.96	0.73	0.83	26.4	3.62	491.8	67.37	47.27	0.26	22.80	silty clay to clay	6
15.95	-15.01	1.16	1.20	17.3	1.49	202.0	17.41	4.72	0.28	22.92	clayey silt to silty clay	4
16.00	-15.06	0.79	0.84	12.7	1.61	265.4	33.59	14.90	0.28	22.89	clayey silt to silty clay	5
16.05	-15.11	0.78	0.85	8.2	1.05	330.1	42.32	23.32	0.28	23.07	clayey silt to silty clay	4
16.10	-15.16	0.78	0.86	9.4	1.21	379.6	48.67	29.61	0.28	22.98	clayey silt to silty clay	4
16.15	-15.21	0.77	0.86	10.3	1.34	431.2	56.00	36.63	0.28	23.13	clayey silt to silty clay	4
16.20	-15.26	0.81	0.90	12.7	1.57	473.6	58.47	39.99	0.28	23.10	clayey silt to silty clay	4
16.25	-15.31	0.94	1.03	11.3	1.20	457.6	48.68	32.71	0.28	23.20	clayey silt to silty clay	4
16.30	-15.36	0.80	0.88	12.8	1.60	382.0	47.75	28.92	0.28	23.16	clayey silt to silty clay	4
16.35	-15.41	0.78	0.87	10.2	1.31	437.5	56.09	36.71	0.28	23.16	clayey silt to silty clay	4
16.40	-15.46	0.78	0.88	10.5	1.35	487.9	62.55	43.11	0.28	23.26	clayey silt to silty clay	4
16.45	-15.51	0.79	0.88	12.0	1.52	460.9	58.34	39.09	0.28	23.13	clayey silt to silty clay	4
16.50	-15.56	0.79	0.88	12.9	1.63	460.2	58.25	38.94	0.28	23.16	clayey silt to silty clay	4
16.55	-15.61	0.79	0.88	14.6	1.85	452.2	57.24	37.86	0.28	23.23	clayey silt to silty clay	4
16.60	-15.66	0.79	0.88	13.4	1.70	450.1	56.97	37.53	0.28	23.16	clayey silt to silty clay	4
16.65	-15.71	0.80	0.88	14.2	1.77	377.0	47.13	27.87	0.28	22.80	clayey silt to silty clay	4
16.70	-15.76	0.79	0.88	13.3	1.68	436.5	55.25	35.69	0.28	22.80	clayey silt to silty clay	4
16.75	-15.81	0.82	0.90	11.4	1.39	375.6	45.80	26.90	0.28	22.80	clayey silt to silty clay	4
16.80	-15.86	0.78	0.87	10.3	1.32	451.4	57.87	37.93	0.28	22.80	silty clay to clay	5
16.85	-15.91	0.79	0.88	36.1	4.57	465.0	58.86	39.11	0.28	22.80	silty clay to clay	5
16.90	-15.96	0.79	0.88	28.9	3.66	460.1	58.24	38.43	0.28	22.80	silty clay to clay	5
16.95	-16.01	0.89	0.93	21.9	2.46	194.2	21.82	4.18	0.28	22.80	silty clay to clay	6
17.00	-16.06	0.80	0.85	14.7	1.84	253.6	31.70	12.01	0.28	22.80	clayey silt to silty clay	4

Soil interpretation reference: Robertson & Campanella-1983, based on 60% hammer efficiency and .15 m sliding data average

Table I.4 continued

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DEPTH m	ELEV m	TIP Qc MPa	COR TIP Qt MPa	FRICTION Fs kPa	FR RATIO Fs/Qc %	PORE PR Pw kPa	PP RATIO Pw/Qc %	DPP RATIO Pw-Ph/Qc %	INC I deg	TEMP T degC	INTERPRETED SOIL TYPE	N SPT
17.05	-16.11	0.79	0.85	12.8	1.62	293.7	37.18	17.18	0.28	22.83	clayey silt to silty clay	4
17.10	-16.16	0.78	0.85	12.3	1.58	325.4	41.72	21.40	0.28	22.80	clayey silt to silty clay	4
17.15	-16.21	0.76	0.83	12.7	1.67	361.5	47.57	26.65	0.28	22.83	clayey silt to silty clay	4
17.20	-16.26	0.75	0.83	13.2	1.76	397.1	52.95	31.69	0.28	22.80	clayey silt to silty clay	4
17.25	-16.31	0.75	0.84	13.3	1.77	427.0	56.93	35.61	0.28	22.83	clayey silt to silty clay	4
17.30	-16.36	0.74	0.83	12.1	1.64	449.8	60.78	39.10	0.28	22.80	clayey silt to silty clay	4
17.35	-16.41	0.76	0.86	12.1	1.59	478.2	62.92	41.75	0.34	22.86	clayey silt to silty clay	4
17.40	-16.46	0.77	0.86	12.7	1.65	433.0	56.23	35.27	0.31	22.92	clayey silt to silty clay	4
17.45	-16.51	0.73	0.82	12.7	1.74	457.3	62.64	40.46	0.31	22.92	clayey silt to silty clay	4
17.50	-16.56	0.73	0.82	12.8	1.75	456.9	62.59	40.34	0.31	22.83	clayey silt to silty clay	4
17.55	-16.61	0.73	0.82	14.7	2.01	467.8	64.08	41.77	0.31	22.92	clayey silt to silty clay	4
17.60	-16.66	0.73	0.82	13.0	1.78	464.6	63.64	41.26	0.31	22.86	clayey silt to silty clay	4
17.65	-16.71	0.79	0.86	12.6	1.59	370.3	46.87	26.13	0.25	22.80	clayey silt to silty clay	4
17.70	-16.76	0.72	0.80	11.4	1.58	415.2	57.67	34.84	0.25	22.80	clayey silt to silty clay	4
17.75	-16.81	0.72	0.81	12.1	1.68	453.9	63.04	40.15	0.25	22.80	clayey silt to silty clay	4
17.80	-16.86	0.74	0.83	12.4	1.68	447.5	60.47	38.13	0.25	22.80	clayey silt to silty clay	4
17.85	-16.91	0.74	0.83	10.8	1.46	452.4	61.14	38.72	0.25	22.83	clayey silt to silty clay	4
17.90	-16.96	0.76	0.86	11.1	1.46	475.8	62.61	40.72	0.25	22.80	clayey silt to silty clay	4
17.95	-17.01	0.74	0.83	12.1	1.64	471.0	63.65	41.11	0.25	22.83	clayey silt to silty clay	4
18.00	-17.06	0.75	0.84	11.5	1.53	462.9	61.72	39.41	0.25	22.80	clayey silt to silty clay	4
18.05	-17.11	0.76	0.85	10.1	1.33	474.8	62.47	40.40	0.24	22.80	clayey silt to silty clay	4
18.10	-17.16	0.72	0.81	14.0	1.94	455.7	63.29	39.92	0.24	22.80	clayey silt to silty clay	4
18.15	-17.21	0.77	0.87	8.8	1.14	501.9	65.18	43.26	0.24	22.83	clayey silt to silty clay	5
18.20	-17.26	1.36	1.43	9.2	0.68	365.1	26.85	14.40	0.24	22.83	sandy silt to clayey silt	7
18.25	-17.31	2.93	2.97	3.1	0.11	205.6	7.02	1.22	0.25	22.89	silty sand to sandy silt	11
18.30	-17.36	5.35	5.38	8.8	0.16	157.1	2.94	-0.25	0.25	22.83	sand to silty sand	11
18.35	-17.41	4.46	4.49	12.6	0.28	159.9	3.59	-0.24	0.33	22.83	sand to silty sand	11
18.40	-17.46	3.91	3.94	10.1	0.26	170.7	4.37	-0.01	0.38	22.89	sand to silty sand	10
18.45	-17.51	4.07	4.10	6.3	0.15	167.6	4.12	-0.10	0.38	22.86	sand to silty sand	11
18.50	-17.56	4.76	4.79	4.1	0.09	170.7	3.59	-0.03	0.38	22.83	sand to silty sand	12
18.55	-17.61	5.34	5.37	2.4	0.04	172.8	3.24	0.00	0.38	22.86	sand to silty sand	13
18.60	-17.66	5.53	5.56	6.3	0.11	131.7	2.38	-0.75	0.38	22.86	sand to silty sand	14
18.65	-17.71	5.55	5.57	4.2	0.08	92.6	1.67	-1.46	0.38	22.80	sand to silty sand	14
18.70	-17.76	6.24	6.25	6.9	0.11	66.3	1.06	-1.73	0.38	22.86	sand to silty sand	15
18.75	-17.81	6.59	6.61	14.1	0.21	87.5	1.33	-1.32	0.38	22.86	sand to silty sand	17
18.80	-17.86	8.00	8.02	3.8	0.05	108.1	1.35	-0.84	0.38	22.95	sand	16
18.85	-17.91	8.99	9.00	4.3	0.05	47.1	0.52	-1.43	0.38	22.86	sand	17
18.90	-17.96	8.93	8.92	14.0	0.16	-26.9	-0.30	-2.27	0.38	22.86	sand	18
18.95	-18.01	9.36	9.36	17.9	0.19	-11.6	-0.12	-2.01	0.38	22.89	sand	19
19.00	-18.06	9.59	9.59	3.1	0.03	-12.8	-0.13	-1.98	0.39	22.89	sand	19
19.05	-18.11	9.73	9.72	2.3	0.02	-54.7	-0.56	-2.39	0.38	23.04	sand	18
19.10	-18.16	8.00	7.99	8.6	0.11	-56.1	-0.70	-2.93	0.38	23.10	sand	16
19.15	-18.21	6.29	6.28	0.5	0.01	-42.6	-0.68	-3.52	0.38	23.04	sand to silty sand	17
19.20	-18.26	5.74	5.74	9.4	0.16	-24.7	-0.43	-3.55	0.38	23.20	sand to silty sand	14
19.25	-18.31	4.56	4.56	15.3	0.34	-19.9	-0.44	-4.37	0.38	23.26	sand to silty sand	12
19.30	-18.36	4.30	4.30	18.6	0.43	-15.7	-0.37	-4.55	0.38	23.29	sand to silty sand	11
19.35	-18.41	4.44	4.44	18.6	0.42	-11.4	-0.26	-4.32	0.38	23.29	sand to silty sand	11
19.40	-18.46	4.17	4.18	19.3	0.46	30.2	0.72	-3.62	0.38	23.29	sand to silty sand	11
19.45	-18.51	4.14	4.14	23.8	0.57	16.3	0.39	-3.99	0.38	23.29	silty sand to sandy silt	13
19.50	-18.56	3.61	3.62	27.1	0.75	73.5	2.04	-3.01	0.38	23.29	silty sand to sandy silt	13

Soil interpretation reference: Robertson & Campanella-1983, based on 60% hammer efficiency and .15 m sliding data average

Table I.4 continued

FRZ910 : VLW : 09-01-98 09:06 PAGE 9

DEPTH m	ELEV m	TIP Qc MPa	COR TIP Qt MPa	FRICTION Fs kPa	FR RATIO Fs/Qc %	PORE PR Pw kPa	PP RATIO Pw/Qc %	DPP RATIO Pw-Ph/Qc %	INC I deg	TEMP T degC	INTERPRETED SOIL TYPE	N SPT
19.55	-18.61	3.78	3.82	33.5	0.89	224.4	5.94	1.11	0.38	23.35	silty sand to sandy silt	12
19.60	-18.66	3.41	3.51	40.7	1.19	482.5	14.15	8.78	0.38	23.35	silty sand to sandy silt	12
19.65	-18.71	3.47	3.56	37.5	1.08	466.5	13.44	8.16	0.38	23.68	silty sand to sandy silt	12
19.70	-18.76	3.55	3.68	33.6	0.95	654.9	18.45	13.27	0.38	23.65	silty sand to sandy silt	11
19.75	-18.81	3.23	3.40	36.4	1.13	850.6	26.33	20.62	0.38	23.71	silty sand to sandy silt	12
19.80	-18.86	3.63	3.82	34.9	0.96	951.5	26.21	21.12	0.38	23.65	silty sand to sandy silt	12
19.85	-18.91	3.63	3.82	43.5	1.20	969.4	26.71	21.60	0.38	23.74	silty sand to sandy silt	12
19.90	-18.96	3.13	3.36	47.9	1.53	1152.9	36.83	30.89	0.38	23.71	silty sand to sandy silt	12
19.95	-19.01	3.59	3.78	38.3	1.07	972.5	27.09	21.90	0.38	23.74	silty sand to sandy silt	12
20.00	-19.06	3.63	3.82	37.4	1.03	927.2	25.54	20.39	0.38	23.77	silty sand to sandy silt	12
20.05	-19.11	3.39	3.59	38.5	1.14	1012.2	29.86	24.33	0.39	23.77	silty sand to sandy silt	12
20.10	-19.16	3.69	3.87	44.4	1.20	890.7	24.14	19.05	0.72	23.77	silty sand to sandy silt	12
20.15	-19.21	3.76	3.94	41.4	1.10	879.8	23.40	18.39	0.70	23.77	silty sand to sandy silt	12
20.20	-19.26	3.65	3.79	49.1	1.35	724.1	19.84	14.66	0.70	23.77	silty sand to sandy silt	12
20.25	-19.31	3.76	3.85	41.1	1.09	473.6	12.60	7.56	0.70	23.77	silty sand to sandy silt	12
20.30	-19.36	3.62	3.73	41.6	1.15	566.1	15.64	10.39	0.71	23.77	silty sand to sandy silt	13
20.35	-19.41	4.17	4.31	43.2	1.04	696.4	16.70	12.14	0.73	23.77	silty sand to sandy silt	14
20.40	-19.46	4.43	4.56	49.2	1.11	640.2	14.45	10.14	0.73	23.77	silty sand to sandy silt	15
20.45	-19.51	4.70	4.87	48.5	1.03	827.9	17.61	13.54	0.73	23.77	silty sand to sandy silt	16
20.50	-19.56	5.03	5.20	44.6	0.89	829.8	16.50	12.68	0.73	23.77	silty sand to sandy silt	16
20.55	-19.61	4.95	5.13	38.6	0.78	921.7	18.62	14.74	0.73	23.77	silty sand to sandy silt	17
20.60	-19.66	5.09	5.29	52.4	1.03	993.3	19.51	15.73	0.73	23.77	silty sand to sandy silt	17
20.65	-19.71	4.90	5.00	55.1	1.12	496.1	10.12	6.18	0.74	23.71	silty sand to sandy silt	16
20.70	-19.76	4.64	4.82	42.7	0.92	905.4	19.51	15.34	0.74	23.65	silty sand to sandy silt	17
20.75	-19.81	5.53	5.68	40.0	0.72	774.0	14.00	10.48	0.74	23.71	sand to silty sand	13
20.80	-19.86	5.77	5.95	40.6	0.70	911.5	15.80	12.42	0.74	23.68	sand to silty sand	15
20.85	-19.91	6.45	6.62	41.4	0.64	855.1	13.26	10.23	0.74	23.71	sand to silty sand	16
20.90	-19.96	6.63	6.80	47.3	0.71	870.8	13.13	10.18	0.74	23.68	sand to silty sand	16
20.95	-20.01	6.52	6.68	53.8	0.83	818.5	12.55	9.54	0.74	23.71	sand to silty sand	16
21.00	-20.06	6.44	6.52	55.0	0.85	395.4	6.14	3.08	0.96	23.71	sand to silty sand	16
21.05	-20.11	6.32	6.36	38.1	0.60	209.1	3.31	0.19	0.97	23.77	sand to silty sand	17
21.10	-20.16	7.62	7.63	32.3	0.42	60.5	0.79	-1.80	0.97	23.77	sand to silty sand	20
21.15	-20.21	9.65	9.67	44.8	0.46	96.5	1.00	-1.05	0.96	23.74	sand	19
21.20	-20.26	11.81	11.82	41.4	0.35	55.3	0.47	-1.21	0.96	23.77	sand	24
21.25	-20.31	14.16	14.15	49.9	0.35	-40.4	-0.29	-1.69	0.97	23.77	sand	28
21.30	-20.36	15.32	15.31	24.5	0.16	-52.3	-0.34	-1.64	0.97	23.77	sand	31
21.35	-20.41	16.47	16.46	43.2	0.26	-62.7	-0.38	-1.60	0.97	23.77	sand	30
21.40	-20.46	13.43	13.42	51.0	0.38	-67.2	-0.50	-1.99	0.97	23.77	sand	27
21.45	-20.51	9.90	9.89	40.1	0.41	-69.3	-0.70	-2.73	0.81	23.77	sand	20
21.50	-20.56	6.97	6.96	15.6	0.22	-69.6	-1.00	-3.89	0.81	23.77	sand to silty sand	19
21.55	-20.61	6.03	6.02	24.1	0.40	-67.5	-1.12	-4.47	0.81	23.77	sand to silty sand	16
21.60	-20.66	6.36	6.35	25.4	0.40	-63.7	-1.00	-4.19	0.81	23.77	?	?

Soil interpretation reference: Robertson & Campanella-1983, based on 60% hammer efficiency and .15 m sliding data average

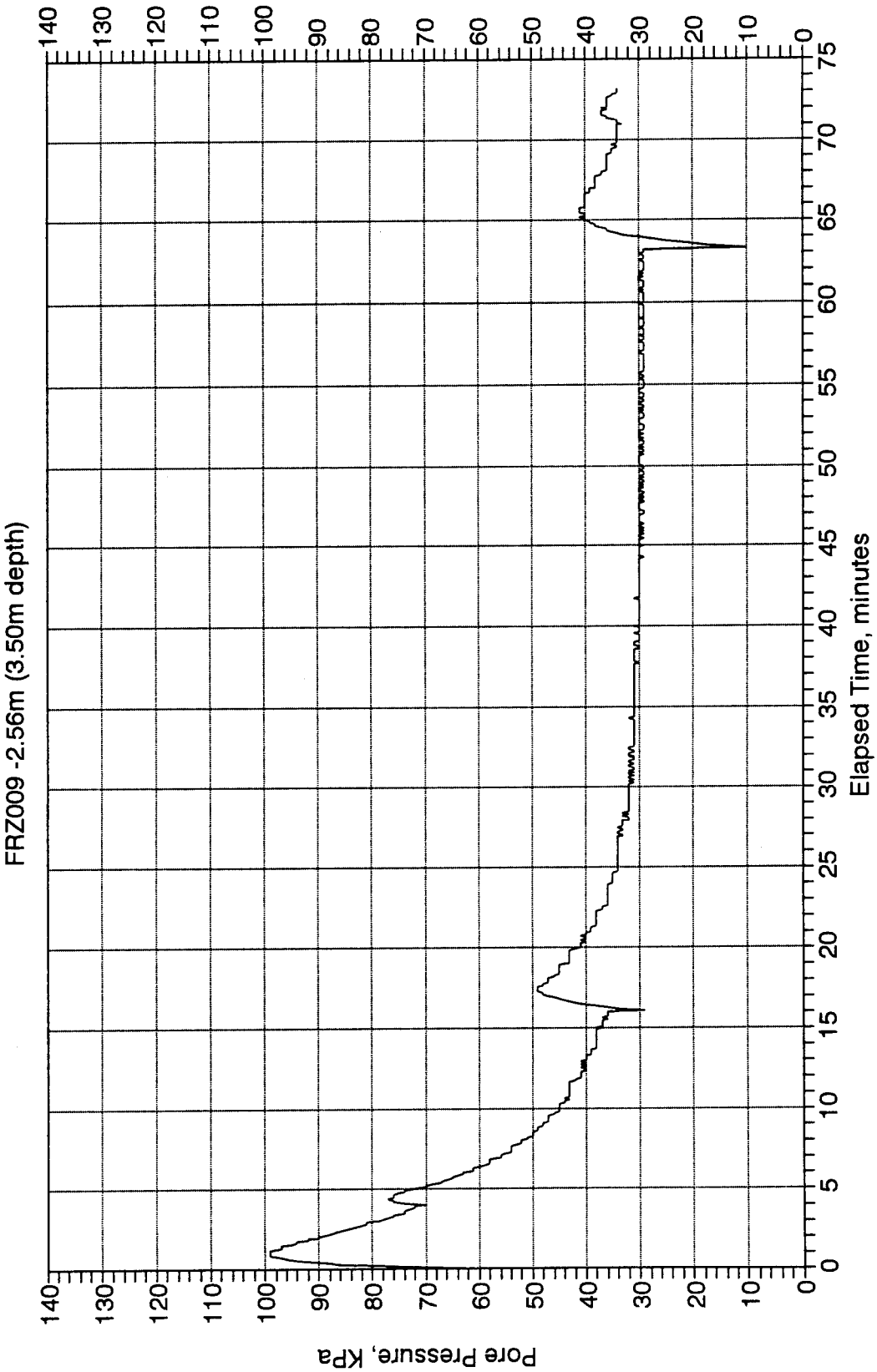


Figure I.17 FRZ009 Pore Pressure at Elev. -2.56 m

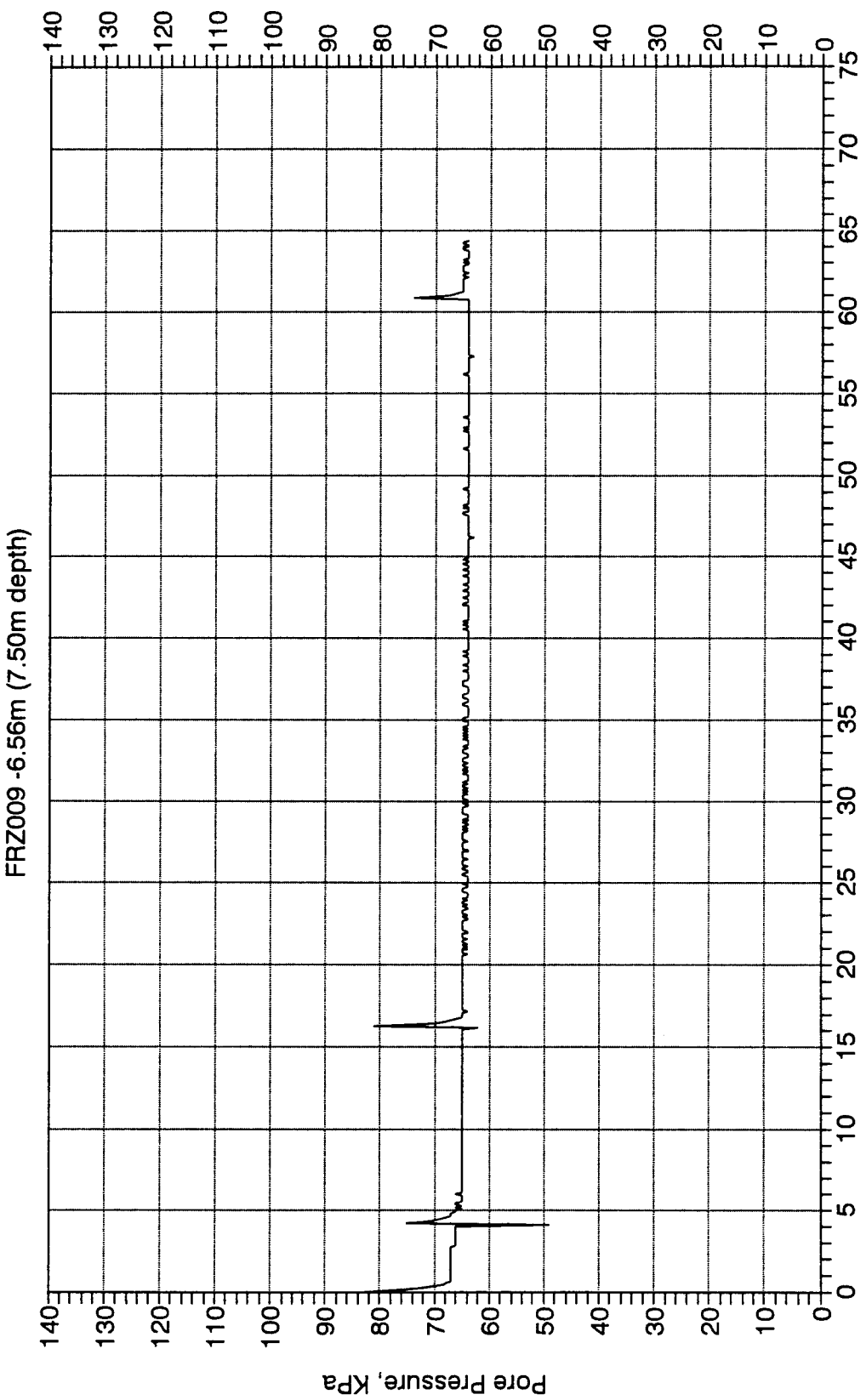


Figure I.18 FRZ009 Pore Pressure at Elev. -6.56 m

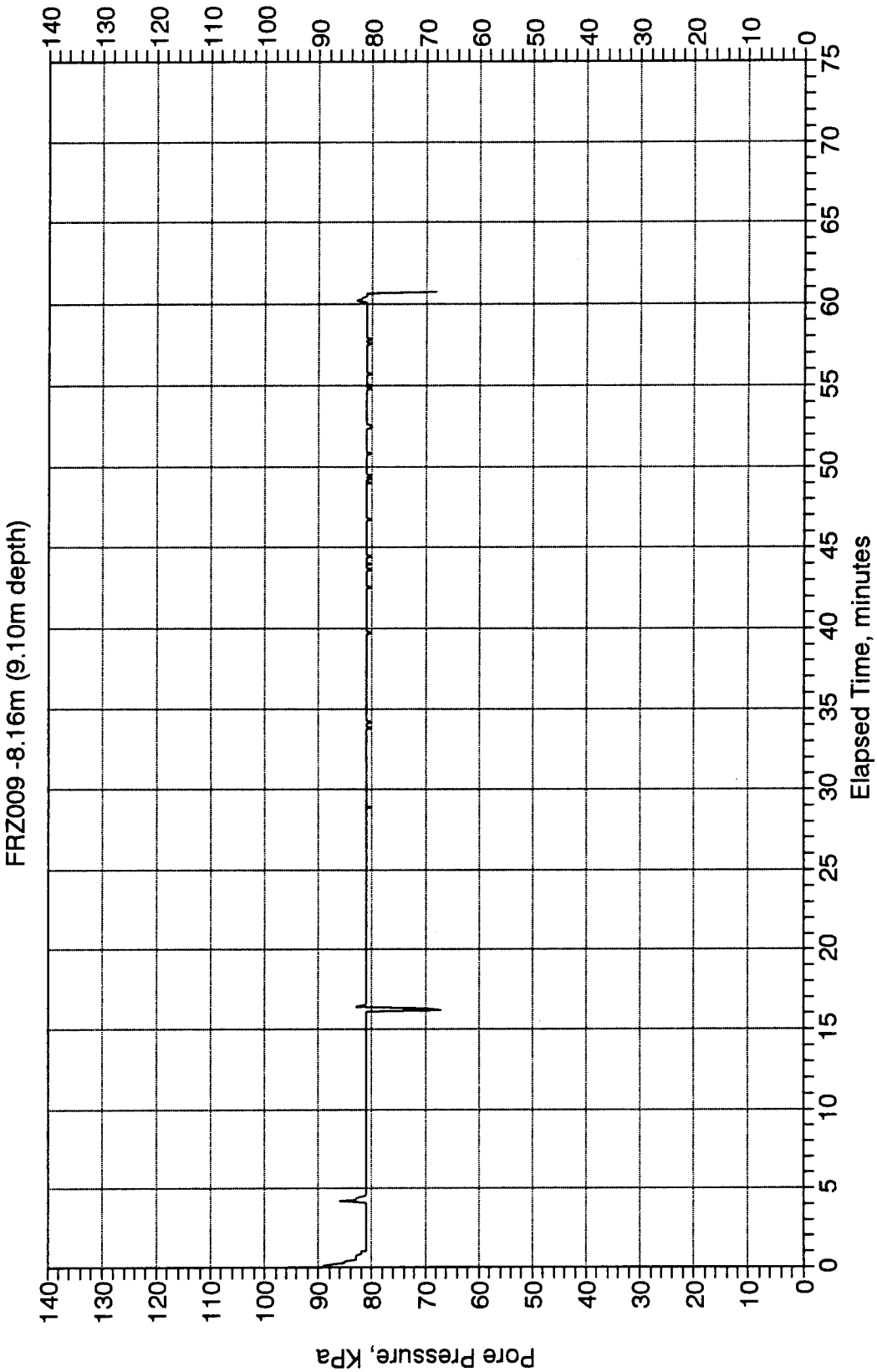


Figure I.19 FRZ009 Pore Pressure at Elev. -8.16 m

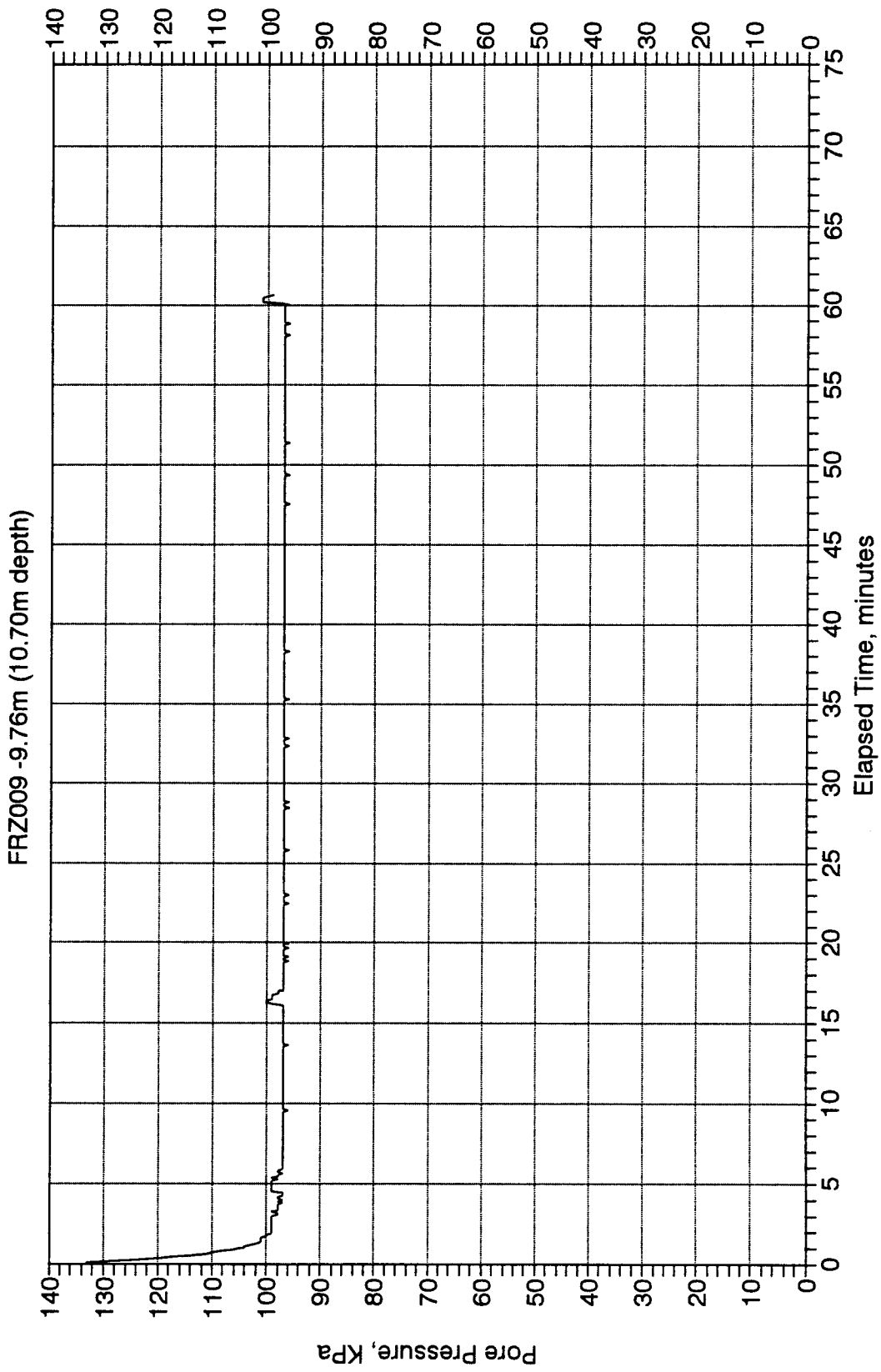


Figure I.20 FRZ009 Pore Pressure at Elev. -9.76 m

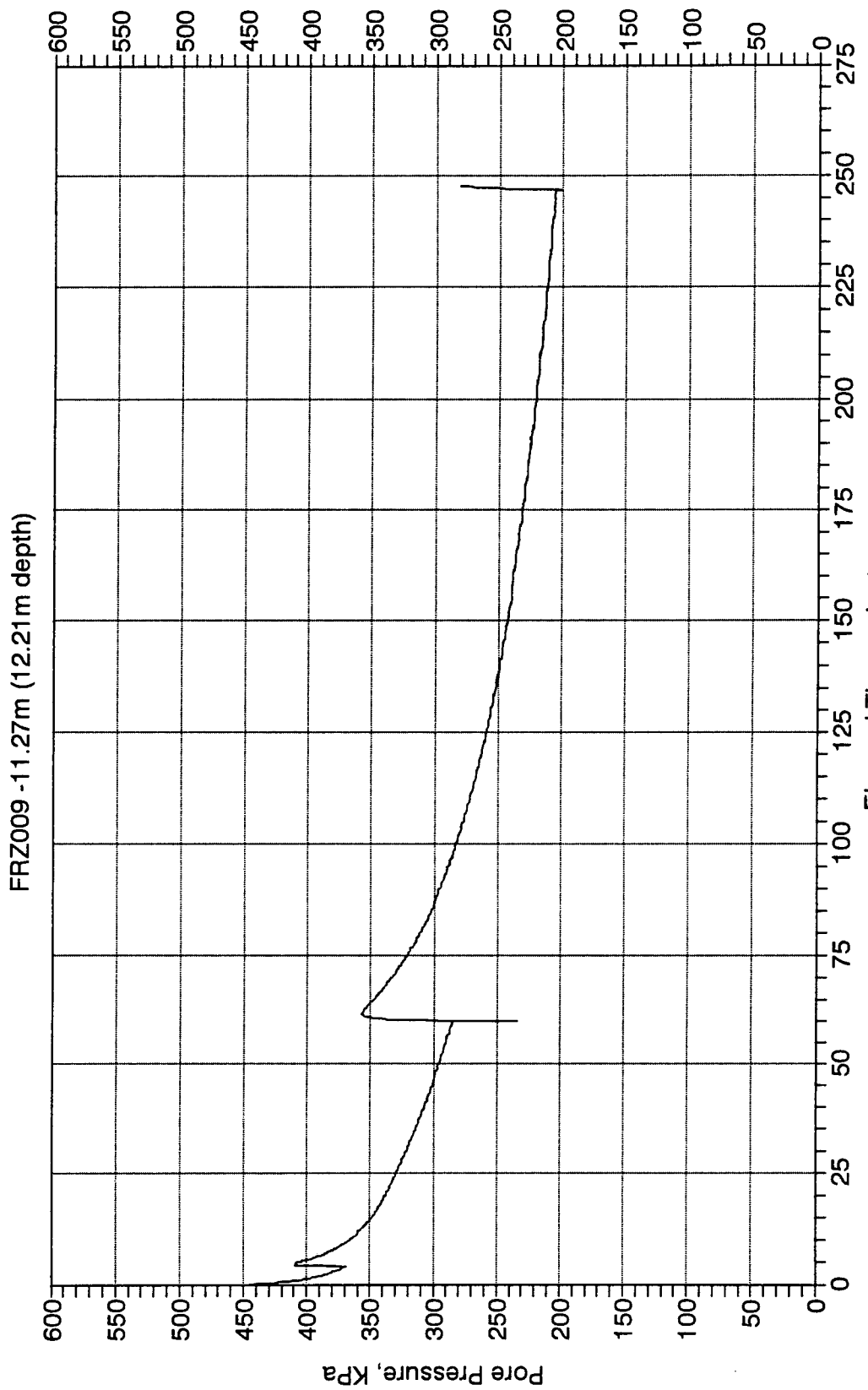


Figure I.21 FRZ009 Pore Pressure at Elev. -11.27 m

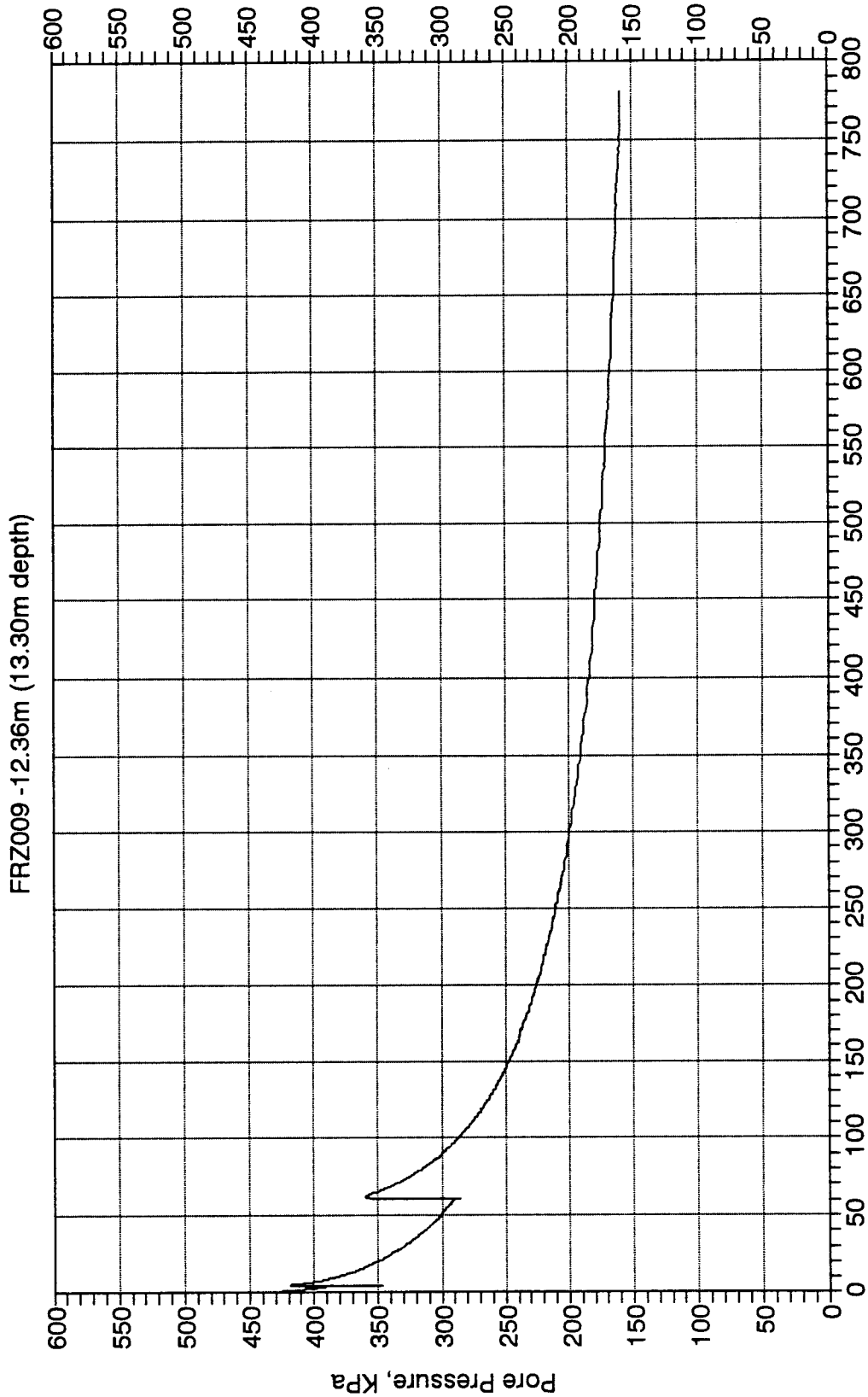


Figure I.22 FRZ009 Pore Pressure at Elev. -12.36 m

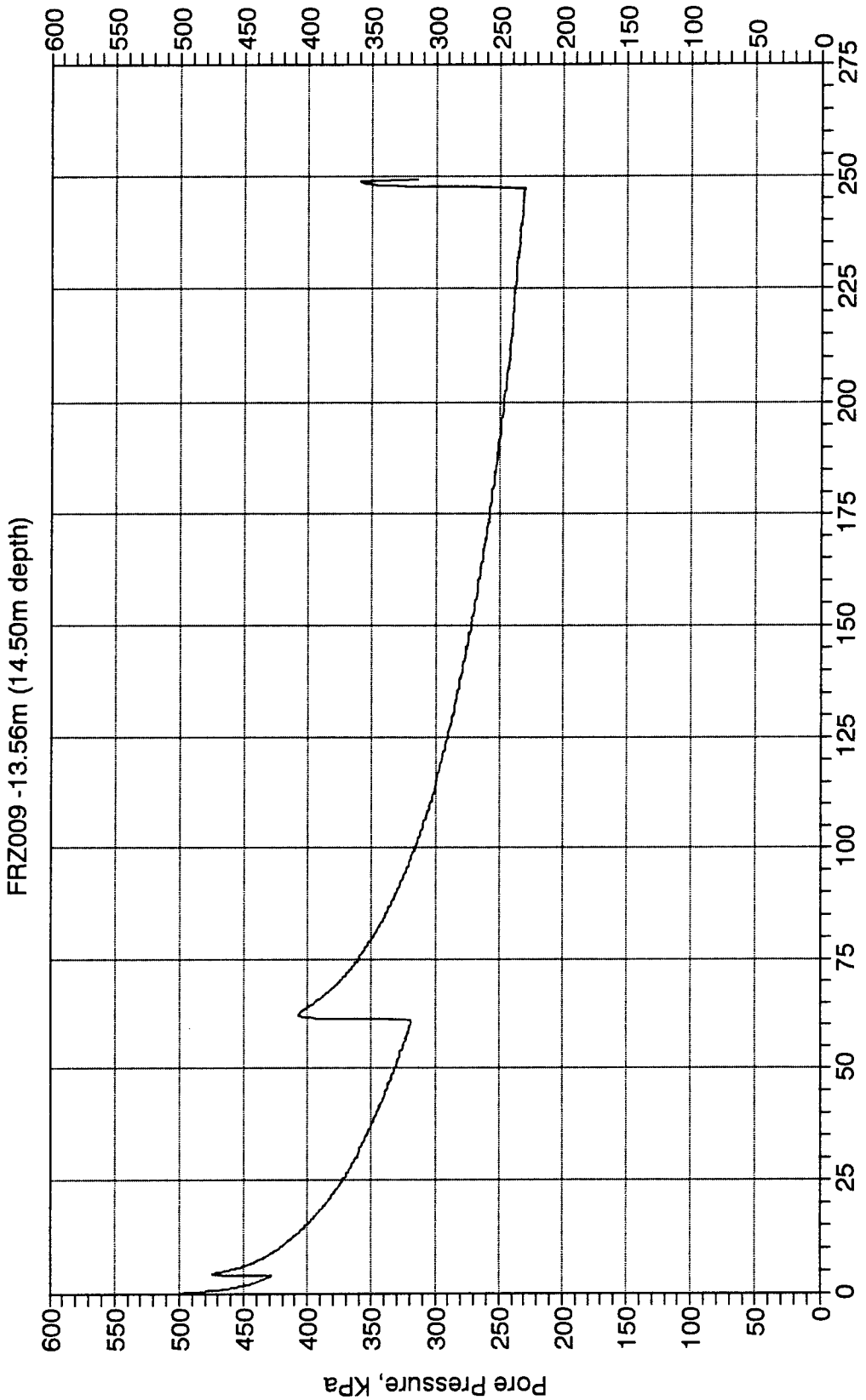


Figure I.23 FRZ009 Pore Pressure at Elev. -13.56 m

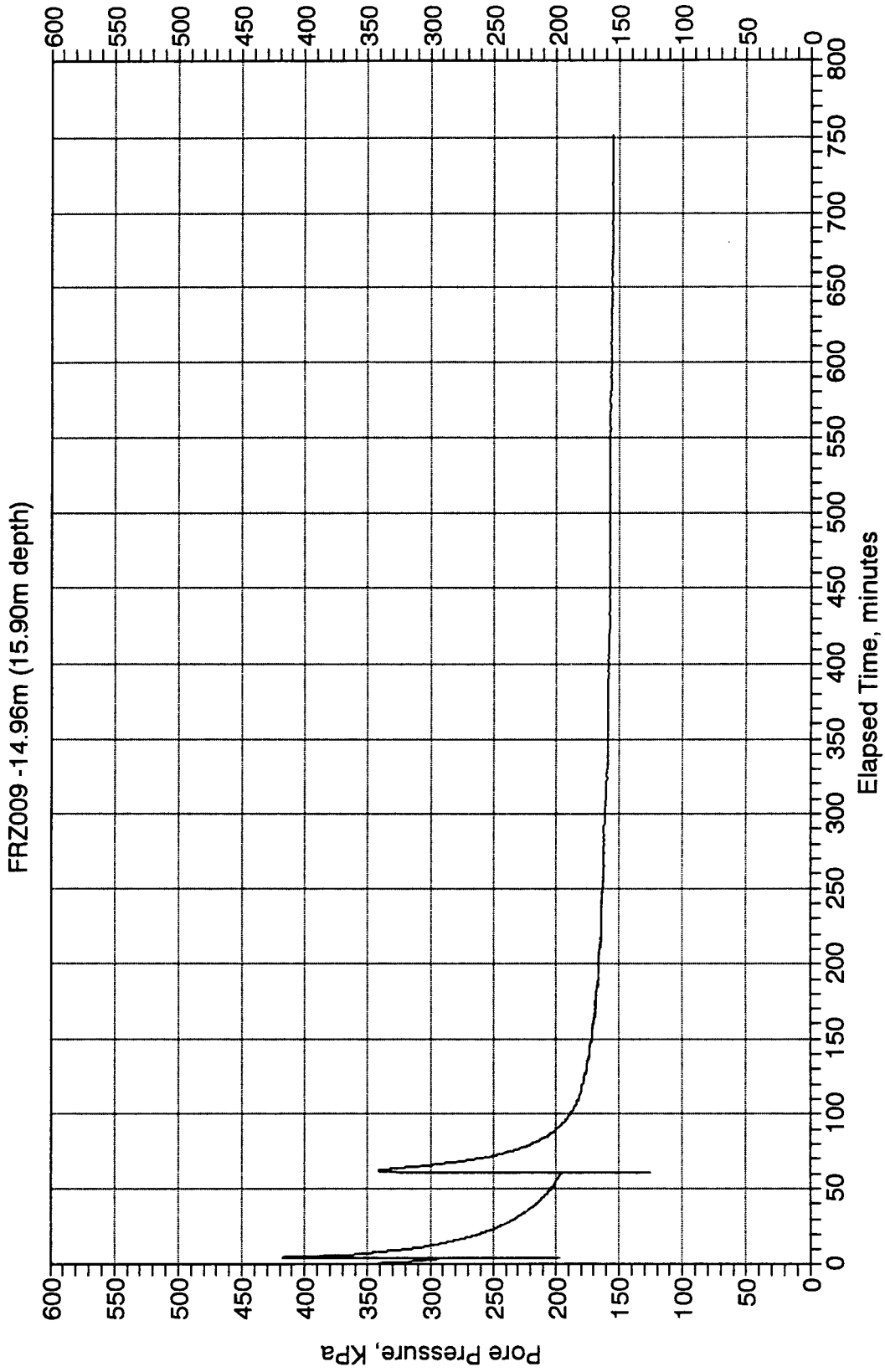


Figure I.24 FRZ009 Pore Pressure at Elev. -14.96 m

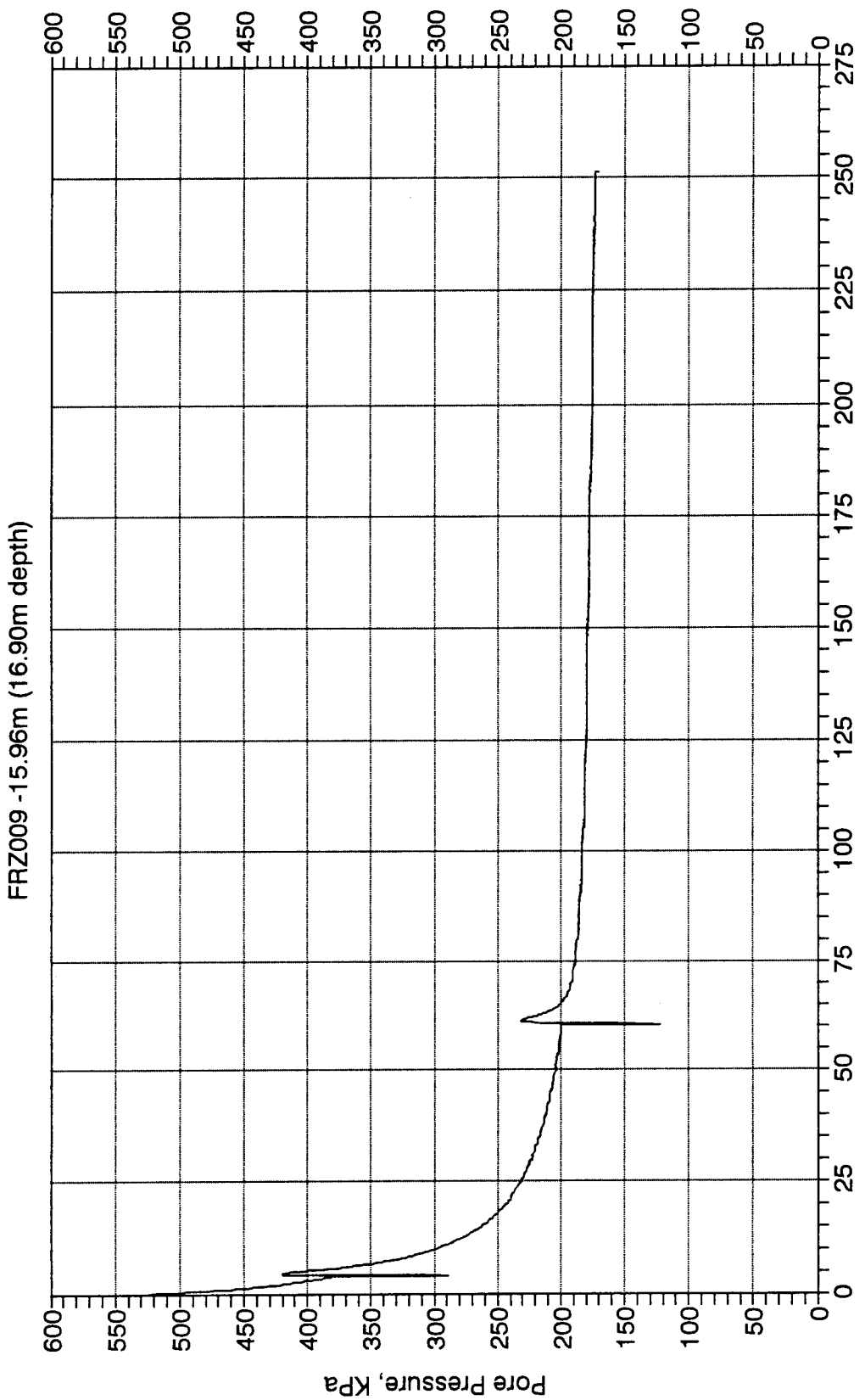


Figure I.25 FRZ009 Pore Pressure at Elev. -15.96 m

Table I.5 CPT Setup Measurements: FRZ001 at VLE

Date mmdd	Time of Day hhmmss	Elapsed Time minutes	CPT Elev. meters	Time Ref. seconds	Bearing Qc MPa	Friction Fs msd. kPa	Fs corr. kPa	Fs/Fsini	Pore Pressure kPa	Temp. Deg C
07/20	17:25:21	0.0	-3.06m	0.00	7.968	18.353	18.353	1.00	37.797	26.359
07/20	17:26:36	1.3		1.20	6.557	17.094	17.094	0.93	38.416	25.348
07/20	17:29:29	4.1	(4.35m	4.80	6.764	20.958	20.958	1.14	36.559	24.529
07/20	17:41:24	16.0	depth)	11.40	6.009	21.766	21.766	1.19	35.320	23.582
07/20	18:25:20	60.0		14.90	6.898	24.278	24.278	1.32	35.325	23.213
07/20	21:25:06	239.7		20.90	6.557	25.537	25.537	1.39	35.324	23.219
07/21	09:47:19	982.0		32.00	6.985	23.186	23.186	1.26	33.794	23.241
07/21	14:27:03	0.0	-4.96m	0.40	33.110	67.656	67.656	1.00	53.919	25.888
07/21	14:28:10	1.1		2.20	21.593	96.853	96.853	1.43	51.442	25.416
07/21	14:31:05	4.0	(6.25m	9.60	23.031	98.832	98.832	1.46	46.796	24.614
07/21	14:43:17	16.2	depth)	15.90	21.047	100.990	100.990	1.49	40.600	23.285
07/21	14:44:57	0.0	-5.06m	33.60	33.660	123.730	123.730	1.00	50.820	23.285
07/21	14:45:55	1.0		44.00	23.562	179.700	179.700	1.45	48.342	23.354
07/21	14:48:53	3.9	(6.35m	49.80	23.850	175.660	175.660	1.42	45.245	23.355
07/21	15:00:55	16.0	depth)	54.40	23.950	172.610	172.610	1.40	42.765	22.967
07/21	15:44:58	60.0		60.80	22.452	180.000	180.000	1.45	44.619	22.601
07/21	19:07:35	262.6		81.70	22.415	179.180	179.180	1.45	44.622	22.443
07/21	19:15:13	0.0	-6.06m	0.40	33.962	104.160	104.160	1.00	58.559	24.069
07/21	19:18:39	3.4		2.50	19.531	135.250	135.250	1.30	60.107	24.342
07/21	19:30:41	15.5	(7.35m	8.50	22.451	112.240	112.240	1.08	53.293	23.191
07/21	20:14:44	59.5	depth)	14.00	20.862	113.690	113.690	1.09	52.672	22.602
07/21	23:15:03	239.8		20.90	20.404	116.830	116.830	1.12	54.221	22.535
07/22	11:13:27	958.2		29.10	20.406	124.070	124.070	1.19	54.540	22.570
07/22	11:22:31	0.0	-7.61m	0.40	37.941	219.730	219.730	1.00	81.789	27.219
07/22	11:26:59	4.5		5.20	24.223	367.940	367.940	1.67	75.906	25.457
07/22	11:38:45	16.2	(8.90m	14.50	23.864	355.010	355.010	1.62	72.190	23.846
07/22	12:22:47	60.3	depth)	22.20	23.020	329.060	329.060	1.50	70.332	22.907
07/22	15:22:35	240.1		30.30	22.102	328.450	328.450	1.49	70.018	22.737
Initial Calibration (FRZ001)					-0.329		15.710		-81.479	32.831
Final Calibration (FRZ001)					-0.389		15.051		-84.005	27.318
Change in Offset Calibration					-0.060		-0.659		-2.526	-5.513

Notes:
1. Depth shown measured at tip, center of friction sleeve is 10cm above tip
2. Initial measurements at elapsed time = 0 are taken from end of penetration
3. Other measurements are taken at peak of friction during penetration increment
4. FS shown above was not corrected for change in offset
5. Penetration increment for initial measurements = 20 cm
6. Penetration increment for other measurements = 1 cm

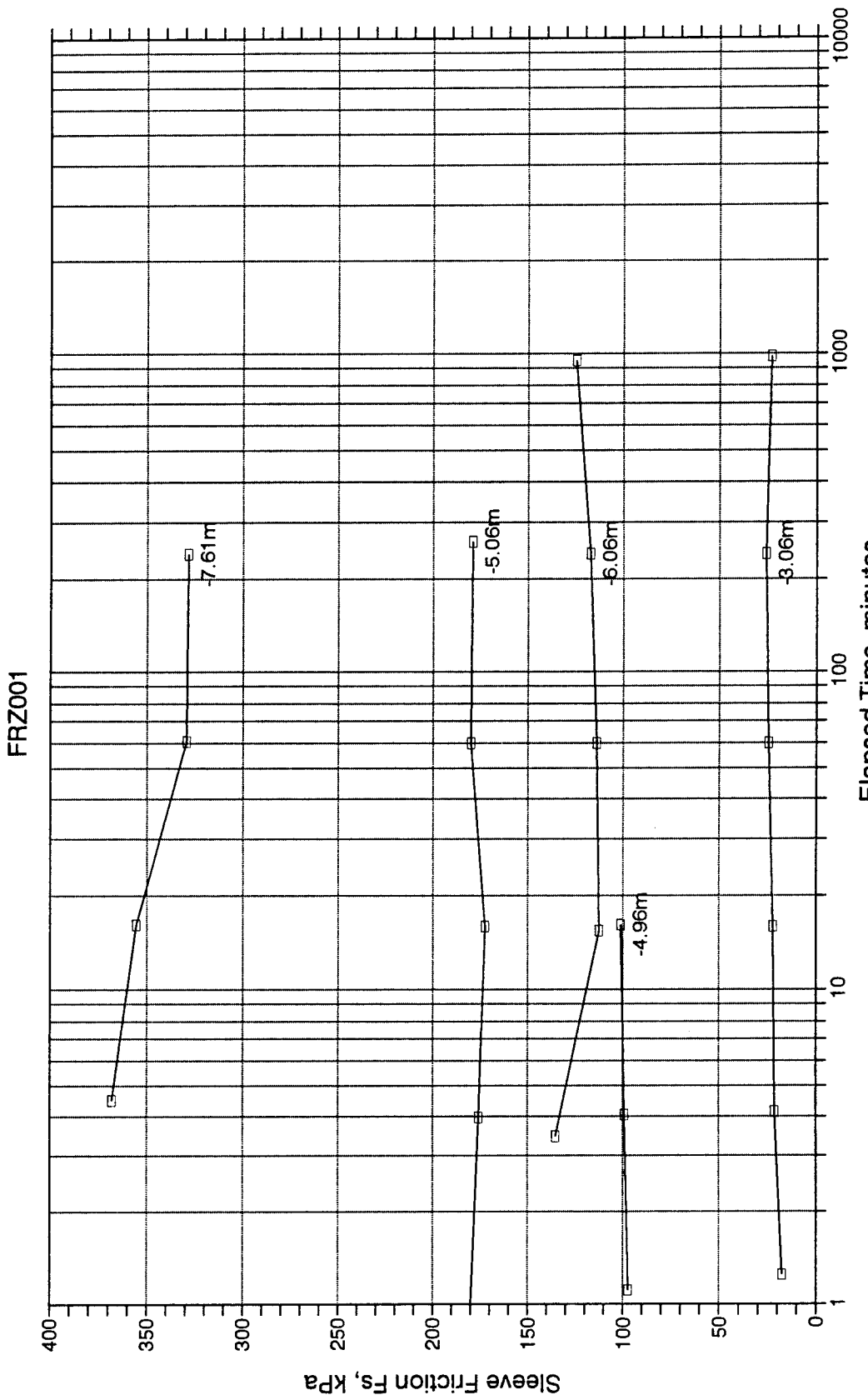


Figure I.26 CPT Setup Measurements: FRZ001 at VLE

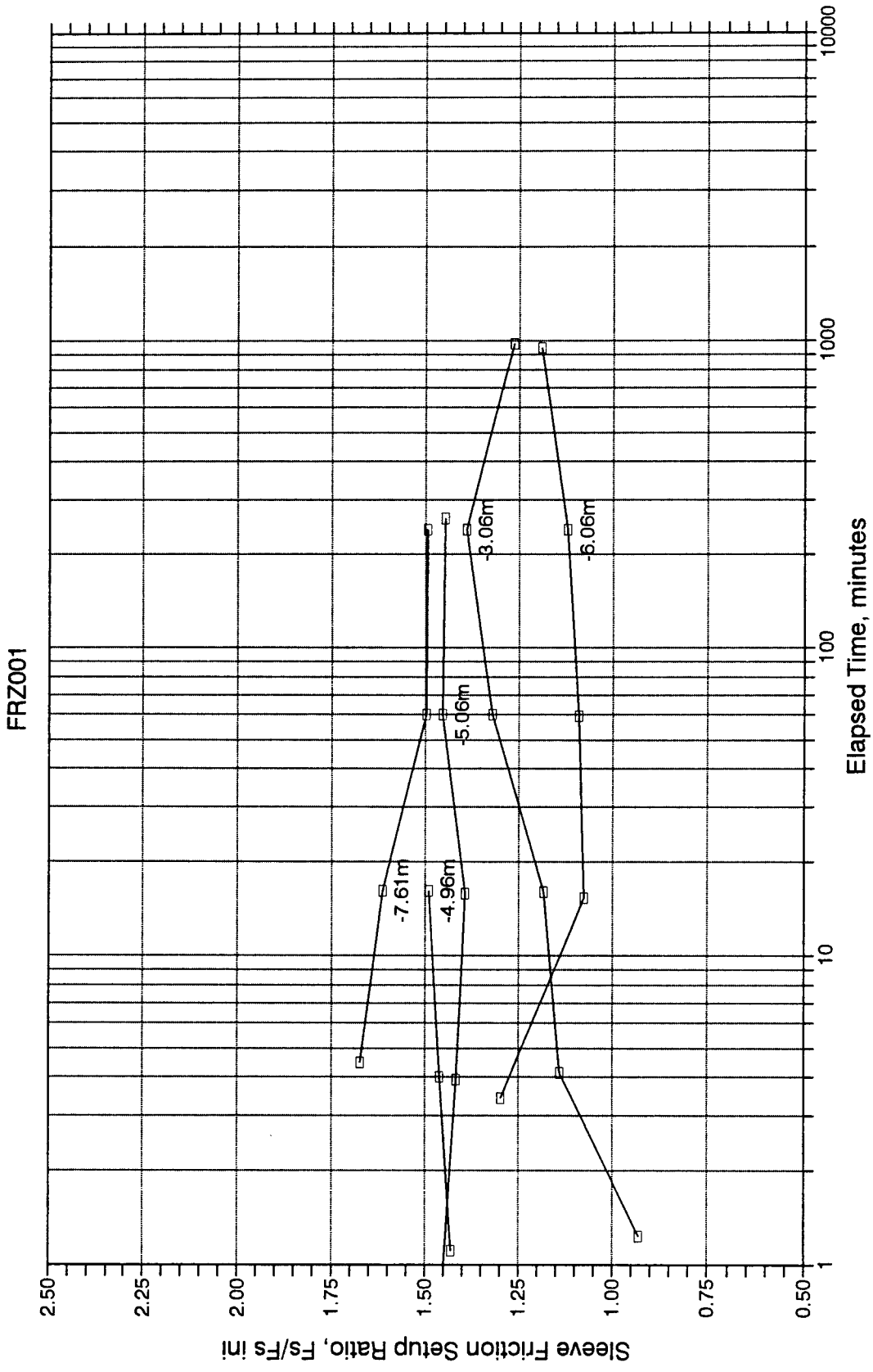


Figure I.27 CPT Setup Ratio: FRZ001 at VLE

Table I.6 CPT Setup Measurements: FRZ002/003 at VLE

Date mmdd	Time of Day hhmmss	Elapsed Time minutes	CPT Elev. meters	Time Ref. seconds	Bearing Qc MPa	Friction Fs msd. kPa	Friction Fs corr. kPa	Fs/Fsini	Pore Pressure kPa	Temp. Deg C
07/29	15:40:48	0.0	-1.04m	12.90	17.668	9.776	9.776	1.00	13.385	26.647
07/29	15:45:23	4.6		16.80	0.262	6.361	6.361	0.65	9.358	26.646
07/29	16:17:44	36.9	(2.00m	22.05	0.074	16.695	16.695	1.71	11.217	25.905
07/29	18:46:59	186.2	depth)	28.15	11.576	14.719	14.719	1.51	9.976	26.252
				(Fs has erratic trend)						
Initial Calibration (FRZ002)					-0.298		17.721		-64.804	36.145
No Final Calibration (FRZ002)										
07/30	09:58:05	0.0	-1.54m	15.00	24.510	73.747	73.747	1.00	17.635	26.046
07/30	10:02:06	4.0		18.05	16.851	114.830	114.830	1.56	12.366	26.048
07/30	10:58:26	60.4	(2.50m	25.55	16.300	112.120	112.120	1.52	11.750	25.203
07/30	13:58:17	240.2	depth)	32.45	15.710	110.000	110.000	1.49	12.692	25.153
07/30	14:04:08	0.0	-3.04m	14.65	18.019	14.754	14.754	1.00	29.418	26.360
07/30	14:08:17	4.2		17.10	11.477	16.552	16.552	1.12	33.754	25.285
07/30	15:04:26	60.3	(4.00m	23.75	10.229	14.037	14.037	0.95	30.966	23.680
07/31	08:55:23	1131.3	depth)	27.65	9.519	13.858	13.858	0.94	30.346	23.621
07/31	09:12:10	0.0	-4.94m	24.80	25.975	113.610	113.610	1.00	53.270	25.192
07/31	09:16:15	4.1		29.20	17.644	170.230	170.230	1.50	43.976	24.657
07/31	10:12:14	60.1	(5.90m	35.50	17.412	161.980	161.980	1.43	40.568	22.591
07/31	13:11:41	239.5	depth)	42.40	17.569	153.130	153.130	1.35	38.398	22.467
07/31	13:27:19	0.0	-7.54m	13.30	30.344	191.960	191.960	1.00	76.515	25.833
07/31	13:31:25	4.1		17.95	21.695	281.140	281.140	1.46	71.556	25.422
07/31	14:27:25	60.1	(8.50m	24.40	20.231	268.570	268.570	1.40	66.600	23.020
07/31	17:27:29	240.2	depth)	31.35	19.194	260.340	260.340	1.36	67.215	22.696
07/31	17:33:29	0.0	-7.74m	52.35	24.514	124.690	124.690	1.00	74.960	22.748
07/31	17:37:38	4.2		56.85	3.427	112.740	112.740	0.90	85.184	22.809
07/31	18:32:31	59.0	(8.70m	62.75	1.027	100.590	100.590	0.81	78.675	22.653
08/01	07:12:25	818.9	depth)	70.15	0.848	99.244	99.244	0.80	74.957	22.652
Initial Calibration (FRZ003)					-0.290		15.527		-42.737	31.963
Final Calibration (FRZ003)					-0.426		16.359		-51.153	27.798
Change in Offset Calibration					-0.136		0.832		-8.416	-4.165

Notes:
1. Depth shown measured at tip, center of friction sleeve is 10cm above tip
2. Initial measurements at elapsed time = 0 are taken from end of penetration
3. Other measurements are taken at peak of friction during penetration increment
4. FS shown above was not corrected for change in offset
5. Penetration increment for initial measurements = 20 cm
6. Penetration increment for other measurements = 1 cm

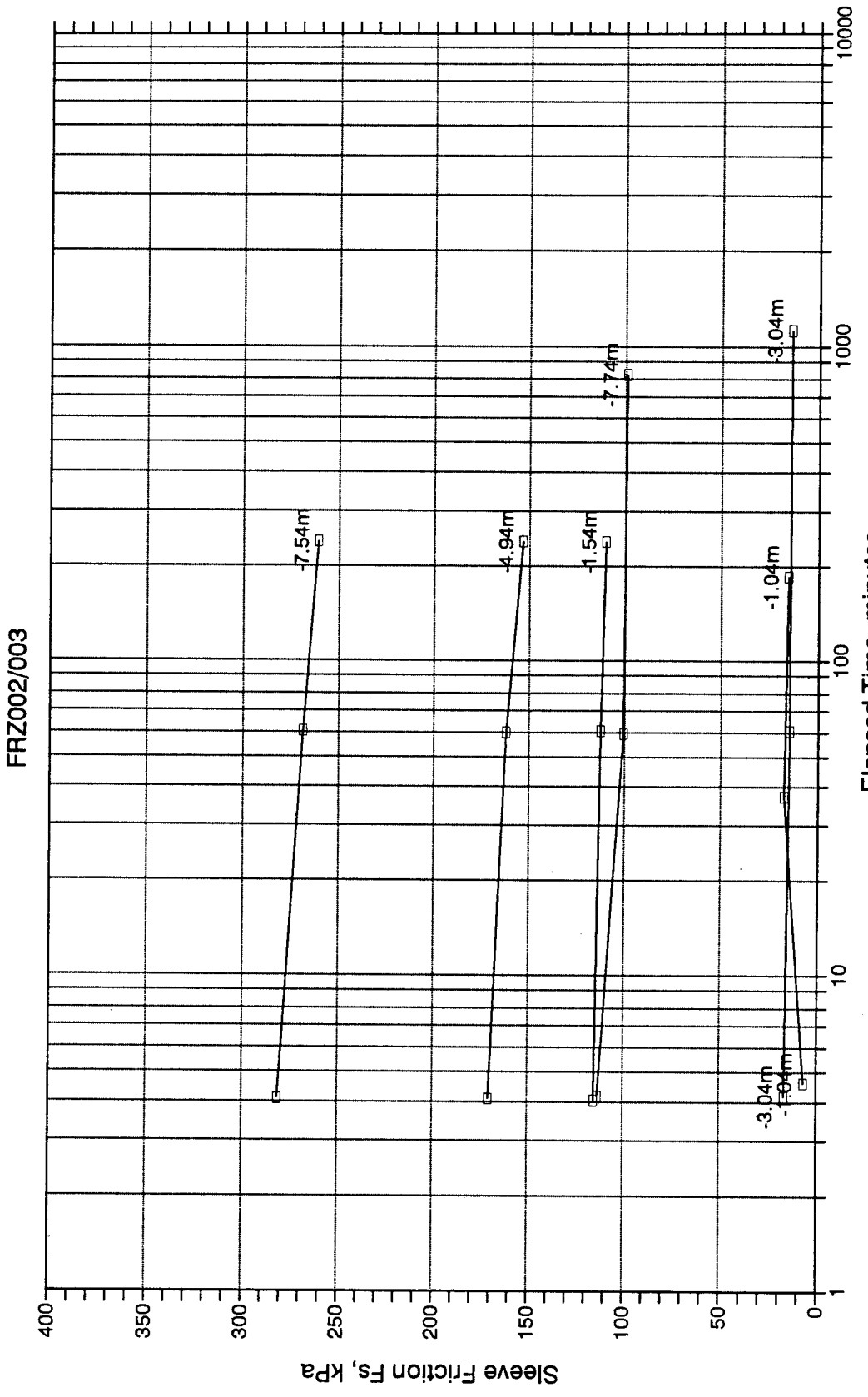


Figure I.28 CPT Setup Measurements: FRZ002/003 at VLE

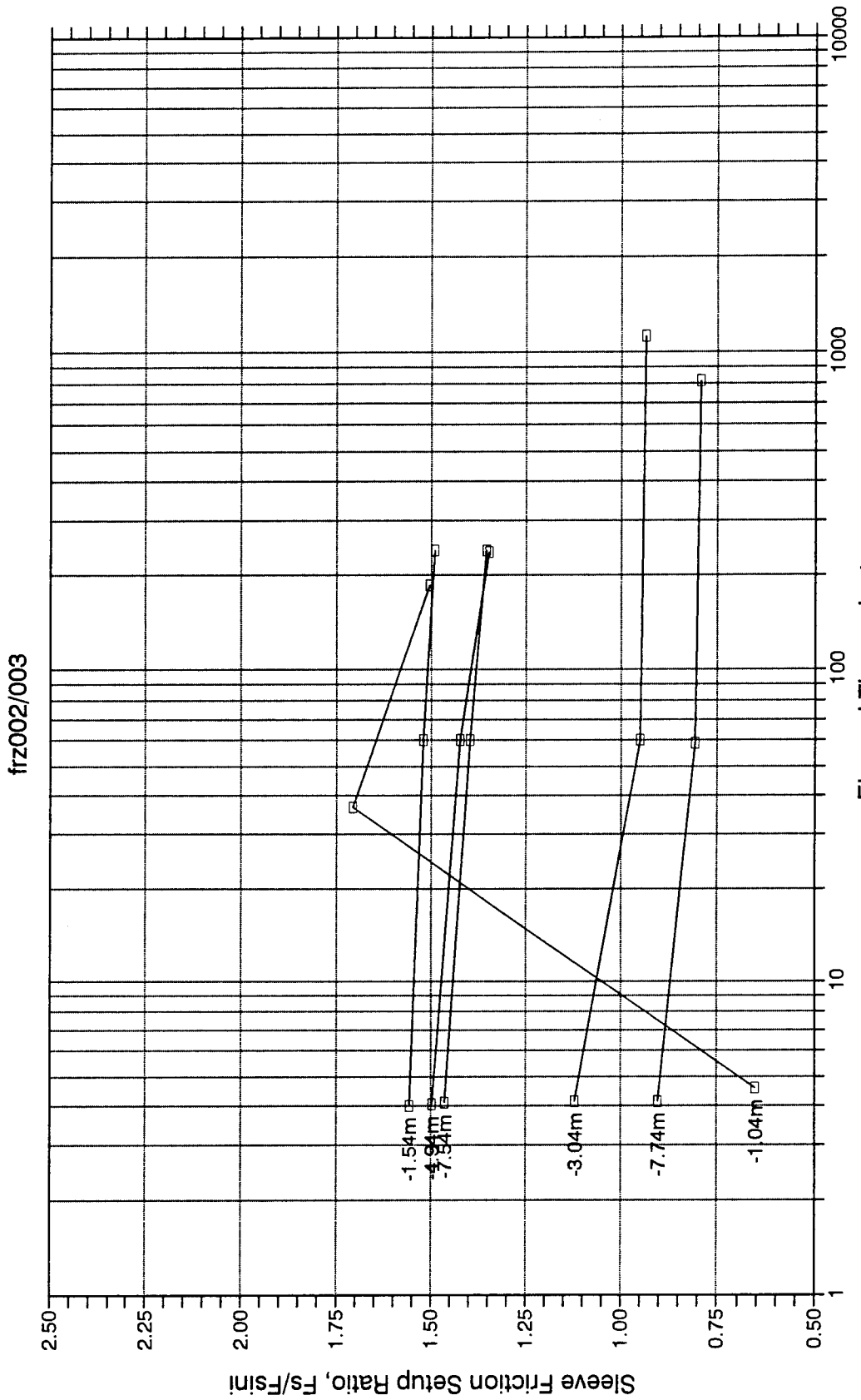


Figure I.29 CPT Setup Ratio: FRZ002/003 at VLE

Table I.7 CPT Setup Measurements: FRZ008 at VLW

Date mmdd	Time of Day hhmmss	Elapsed Time minutes	CPT Elev. meters	Time Ref. seconds	Bearing Qc MPa	Friction Fs msd. kPa	Friction Fs corr. kPa	Fs/Fsini	Pore Pressure kPa	Temp. Deg C
08/27	14:17:36	0.0	-6.53m	15.65	9.672	70.010	73.371	1.00	56.376	23.412
08/27	14:21:42	4.1		17.15	6.940	103.890	107.251	1.46	54.827	23.816
08/27	15:17:46	60.2	(8.01m	20.00	5.925	98.226	101.587	1.38	52.969	23.141
08/27	17:39:01	201.4	depth)	22.65	5.565	88.072	91.433	1.25	52.349	23.141
08/27	17:58:57	0.0	-9.72m	93.15	1.072	10.252	13.613	1.00	121.420	23.541
08/27	18:03:23	4.4	(11.20m	94.85	1.081	12.589	15.950	1.17	94.785	23.407
08/27	18:59:14	60.3	depth)	98.05	1.288	13.038	16.399	1.20	87.352	23.276
08/27	19:02:05	0.0	-10.12m	10.15	0.668	2.885	6.246	1.00	168.510	23.353
08/27	19:06:10	4.1		11.40	0.524	15.016	18.377	2.94	141.250	23.282
08/27	20:02:43	60.6	(11.60m	17.35	0.452	21.845	25.206	4.04	153.640	23.276
08/28	07:57:52	775.8	depth)	20.80	0.470	19.796	23.157	3.71	93.263	23.561
08/28	08:05:38	0.0	-12.32m	23.80	0.713	7.209	10.570	1.00	406.270	23.426
08/28	08:09:45	4.1		25.20	0.695	9.187	12.548	1.19	371.250	23.426
08/28	09:05:51	60.2	(13.80m	27.90	0.587	13.323	16.684	1.58	277.040	23.426
08/28	12:20:35	255.0	depth)	31.00	0.605	20.771	24.132	2.28	196.720	23.583
08/28	12:29:11	0.0	-14.92m	83.90	0.713	1.629	4.990	1.00	407.690	23.320
08/28	12:33:13	4.0		84.70	0.578	3.696	7.057	1.41	354.410	23.321
08/28	13:29:14	60.0	(16.40m	87.20	0.811	16.813	20.174	4.04	149.920	23.277
08/28	16:37:32	248.3	depth)	91.35	0.865	22.204	25.565	5.12	133.810	23.411
Initial Calibration					-0.200		16.256		-41.818	35.412
Final Calibration					-0.182		12.895		-47.547	25.567
Change in Offset					0.018		-3.361		-5.729	-9.845

Notes:
1. Depth shown measured at tip, center of friction sleeve is 10cm above tip
2. Initial measurements at elapsed time = 0 are taken from end of penetration
3. Other measurements are taken at peak of friction during penetretion increment
4. FS shown above has been corrected by subtracting change in offset
5. Penetration increment for initial measurements = 20 cm
6. Penetration increment for other measurements = 1 cm

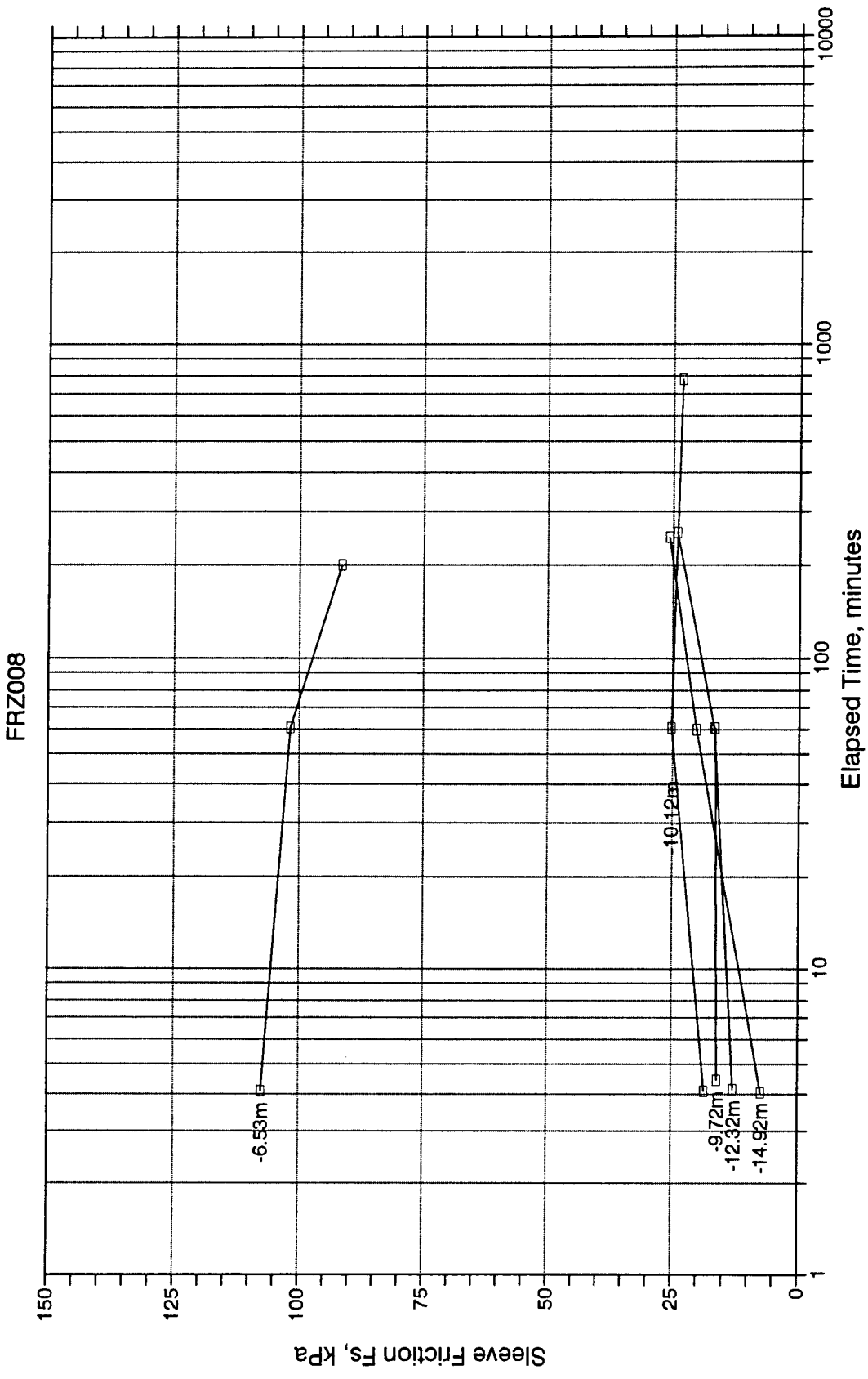


Figure I.30 CPT Setup Measurements: FRZ008 at VLW

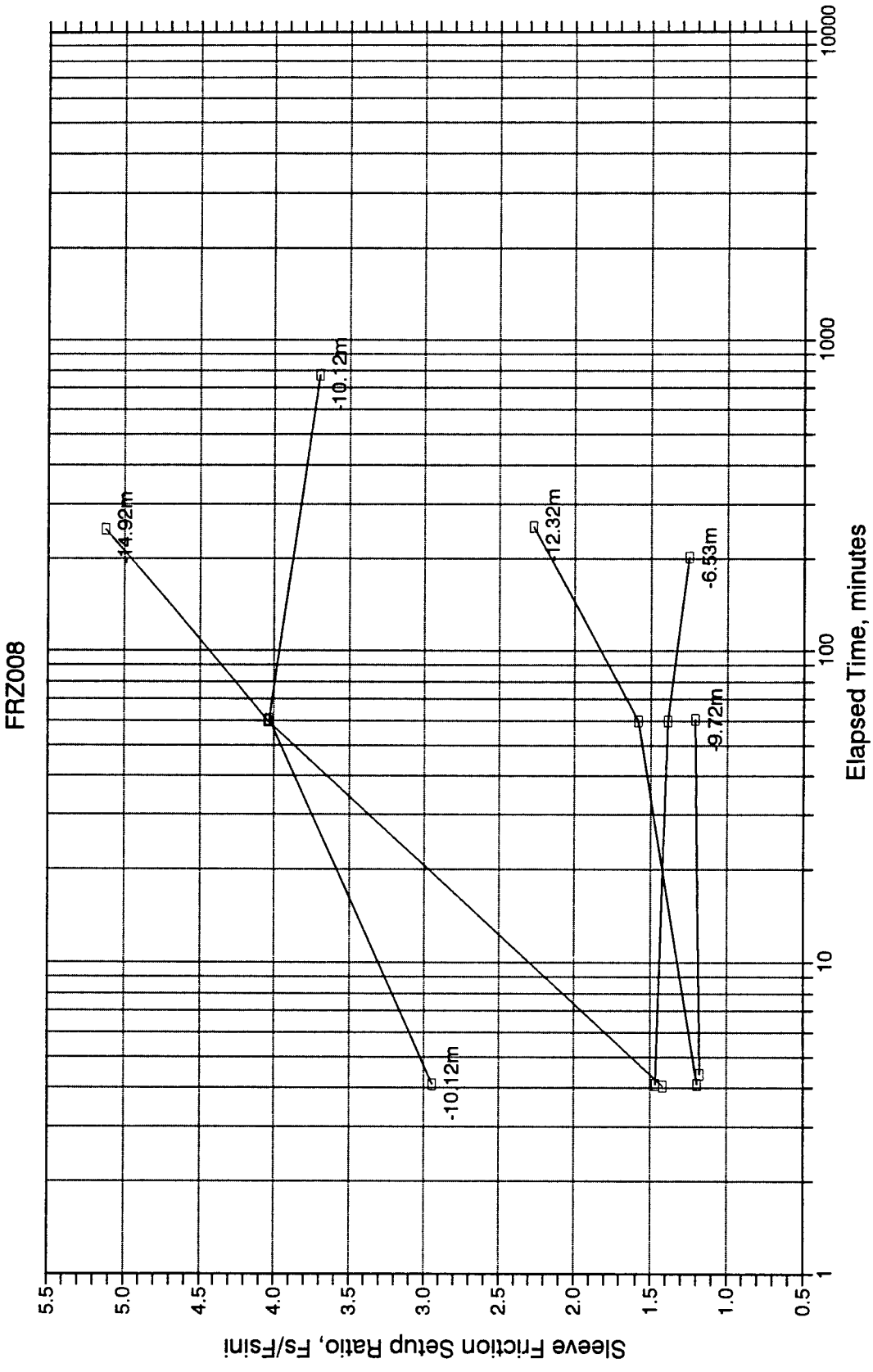


Figure I.31 CPT Setup Ratio: FRZ008 at VLW

Table I.8 CPT Setup Measurements: FRZ009/010 at VLW

Date mmdd	Time of Day hhmmss	Elapsed Time minutes	CPT Elev. meters	Time Ref. seconds	Bearing Qc MPa	Friction Fs msd. kPa	Friction Fs corr. KPa	Fs/Fsini	Pore Pressure KPa	Temp. Deg C
08/31	09:32:09	0.0	-2.56m	8.80	0.067	0.279	1.115	1.00	55.474	24.842
08/31	09:36:11	4.0		9.60	0.234	2.526	3.362	3.02	65.082	24.235
08/31	09:48:10	16.0	(3.50m	10.70	0.297	4.145	4.981	4.47	23.553	23.965
08/31	10:35:22	63.2	depth)	11.70	0.324	3.695	4.531	4.06	3.719	23.898
				At 3.50m Fs & Qc have inclining but erratic trend						
08/31	10:56:04	0.0	-6.56m	9.65	11.526	80.115	80.951	1.00	55.164	23.898
08/31	11:00:09	4.1		10.55	7.624	139.540	140.376	1.73	45.867	23.831
08/31	11:12:15	16.2	(7.50m	13.35	6.365	124.700	125.536	1.55	44.317	23.003
08/31	11:56:47	60.7	depth)	16.85	6.050	108.410	109.246	1.35	42.458	22.626
				At 7.50m Fs & Qc have declining trend						
08/31	12:04:53	0.0	-8.16m	8.65	2.679	16.006	16.842	1.00	79.020	22.756
08/31	12:09:00	4.1		9.10	2.256	18.611	19.447	1.15	71.273	22.675
08/31	12:21:02	16.1	(9.10m	11.75	1.861	18.969	19.805	1.18	68.793	22.661
08/31	13:04:57	60.1	depth)	14.45	1.896	17.889	18.725	1.11	66.314	22.720
				At 9.10m Fs & Qc have slightly declining trend						
08/31	13:10:37	0.0	-9.76m	9.65	0.953	5.395	6.231	1.00	125.170	22.904
08/31	13:15:04	4.5		10.30	0.935	8.001	8.837	1.42	89.236	22.897
08/31	13:26:44	16.1	(10.70m	11.35	0.800	10.516	11.352	1.82	85.206	22.882
08/31	14:10:45	60.1	depth)	13.45	0.791	8.898	9.734	1.56	84.276	22.872
				At 10.70m Qc declining & Fs inclining						
08/31	14:15:22	0.0	-11.27m	5.95	0.629	8.359	9.195	1.00	418.510	23.017
08/31	14:19:30	4.1		6.40	0.620	10.336	11.172	1.21	337.040	23.015
08/31	15:15:21	60.0	(12.21m	8.85	0.548	15.637	16.473	1.79	244.730	23.074
08/31	18:22:08	246.8	depth)	11.85	0.683	21.298	22.134	2.41	164.810	23.276
				At 12.21m Qc has slight incline, Fs constant						
08/31	18:28:08	0.0	-12.36m	9.25	0.620	8.268	9.104	1.00	420.350	23.201
08/31	19:28:11	60.0	(13.30m	10.85	0.629	13.570	14.406	1.58	240.390	23.141
09/01	07:29:13	781.1	depth)	13.55	0.593	23.294	24.130	2.65	126.440	23.421
				At 13.30m Qc has slight incline, Fs constant, no trigger @ 4min						
Initial Calibration (FRZ009)					-0.207		14.915		-43.698	30.304
Final Calibration (FRZ009)					-0.197		14.079		-48.656	25.239
Change in Offset (FRZ009)					0.010		-0.836		-4.958	-5.065
09/02	14:58:58	0.0	-13.56m	8.90	0.724	7.668	9.588	1.00	435.630	23.146
09/02	15:03:01	4.0		9.60	0.733	10.365	12.285	1.28	360.950	23.081
09/02	16:00:09	61.2	(14.50m	10.25	0.751	16.836	18.756	1.96	232.010	23.127
09/02	19:06:25	247.5	depth)	12.20	0.795	25.457	27.377	2.86	136.550	23.259
				At 14.50m Qc & Fs have slight incline						
09/02	19:13:55	0.0	-14.96m	8.80	0.742	8.380	10.300	1.00	487.250	23.191
09/02	19:18:04	4.2		10.55	0.786	8.739	10.659	1.03	180.540	23.048
09/02	20:14:03	60.1	(15.90m	12.80	0.858	17.548	19.468	1.89	49.493	23.123
09/03	07:46:13	752.3	depth)	16.15	1.021	28.092	30.012	2.91	91.036	23.458
				At 15.90m Qc has slight incline, Fs has slight decline						
09/03	07:52:56	0.0	-15.96m	8.40	0.787	8.485	10.405	1.00	459.010	23.248
09/03	07:57:05	4.2		9.25	0.742	13.791	15.711	1.51	252.540	23.106
09/03	08:53:19	60.4	(16.90m	13.30	0.787	27.011	28.931	2.78	149.630	23.111
09/03	12:04:08	251.2	depth)	16.05	0.715	34.094	36.014	3.46	151.750	23.247
				At 16.90m Qc constant, Fs has slight incline						
Initial Calibration (FRZ010)					-0.193		14.718		-48.253	30.574
Final Calibration (FRZ010)					-0.172		12.798		-51.273	24.945
Change in Offset (FRZ010)					0.022		-1.920		-3.020	-5.629

Notes:
1. Depth shown measured at tip, center of friction sleeve is 10cm above tip
2. Initial measurements at elapsed time = 0 are taken from end of penetration
3. Other measurements are taken at peak of friction during penetretion increment
4. FS shown above has been corrected by subtracting change in offset
5. Penetration increment for initial measurements = 20 cm
6. Penetration increment for other measurements = 1 cm

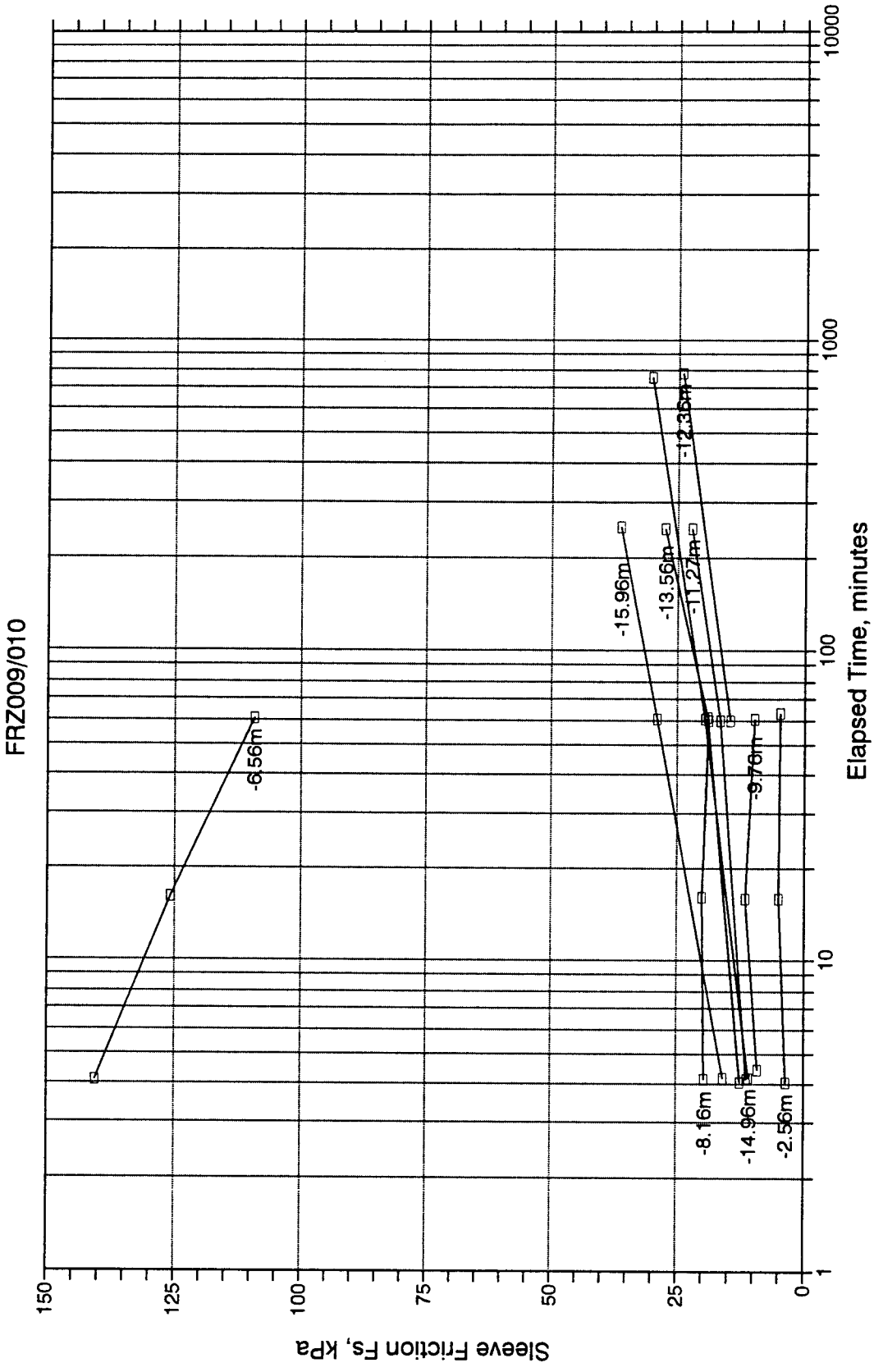


Figure I.32 CPT Setup Measurements: FRZ009/010 at VLW

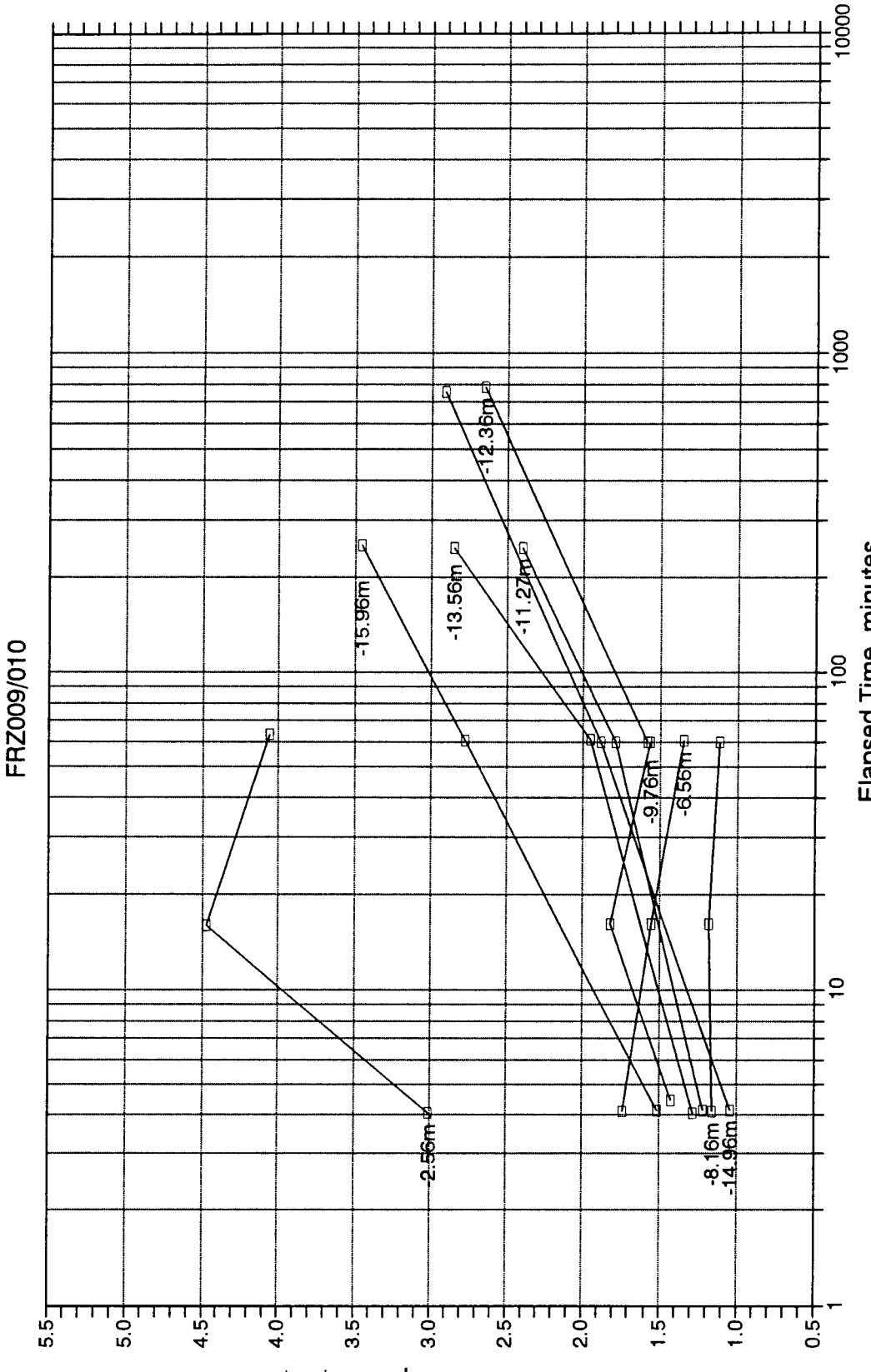


Figure I.33 CPT Setup Ratio: FRZ009/010 at VLW

APPENDIX J
DILATOMETER FREEZE MEASUREMENTS

Table J.1 Summary of DMT A-Dissipation Results: Vilano East

Elevation msl meters	Corrected A-Reading A', kPa %Dissipation			Sqrt Time minutes	Time minutes	Thrust, kN		
	0%	50%	100%	at 50% Dissipation		Initial	Final	Ratio Final/Init.
FRZ004								
-1.30	852.0	748.7	645.4	0.871	0.76	68.770	52.460	0.76
-2.90	365.8	296.8	227.7	1.199	1.44	20.660	18.050	0.87
-3.90	440.2	309.5	178.8	1.287	1.66	27.980	23.240	0.83
-4.90	1409.7	1382.9	1356.0	1.576	2.48	89.350	69.250	0.78
-6.30	1192.2	1132.6	1073.0	1.021	1.04	81.430	65.560	0.81
FRZ005								
-0.92	959.9	874.8	789.8	1.045	1.09	56.100	43.850	0.78
-2.92	411.9	309.0	206.1	1.245	1.55	19.560	16.990	0.87
-3.92	198.6	146.5	94.3	0.447	0.20	16.200	15.290	0.94
-4.92	820.5	768.1	715.8	1.241	1.54	49.180	39.860	0.81
-6.12	787.7	636.4	485.0	2.302	5.30	44.650	27.390	0.61
-7.52	897.2	844.1	790.9	0.853	0.73	57.110	39.170	0.69
-8.52	1075.1	1006.8	938.6	1.064	1.13	60.300	43.230	0.72

Elevation msl meters	DMT Material Index, ID			Equivalent P0, kPa %Dissipation			Hydrostat. Pore Press. U0, kPa	Horizontal Eff.Stress kPa
	above	below	average	0%	50%	100%	at 100% Dissipation	
FRZ004								
-1.30	2.39	2.43	2.41	760.7	668.4	576.2	20.1	556.1
-2.90	5.84	11.85	8.85	326.6	265.0	203.3	35.8	167.5
-3.90	5.20	10.33	7.77	393.0	276.3	159.6	45.6	114.0
-4.90	3.16	2.20	2.68	1258.6	1234.7	1210.6	55.4	1155.2
-6.30	2.39	2.81	2.60	1064.4	1011.2	958.0	69.2	888.8
FRZ005								
-0.92	3.79	3.12	3.46	857.0	781.0	705.1	16.4	688.7
-2.92	4.81	5.49	5.15	367.7	275.9	184.0	36.0	148.0
-3.92	5.41	5.96	5.69	177.3	130.8	84.2	45.8	38.4
-4.92	2.87	3.53	3.20	732.5	685.8	639.1	55.6	583.4
-6.12	3.22	4.03	3.63	703.3	568.2	433.0	67.4	365.6
-7.52	2.38	3.05	2.72	801.0	753.6	706.1	81.2	625.0
-8.52	2.94	2.89	2.92	959.8	898.9	838.0	91.0	747.0

Note: if ID < = 0.9 then P0 = 0.9880 A', if ID > 0.9 then P0 = 0.8928 A'

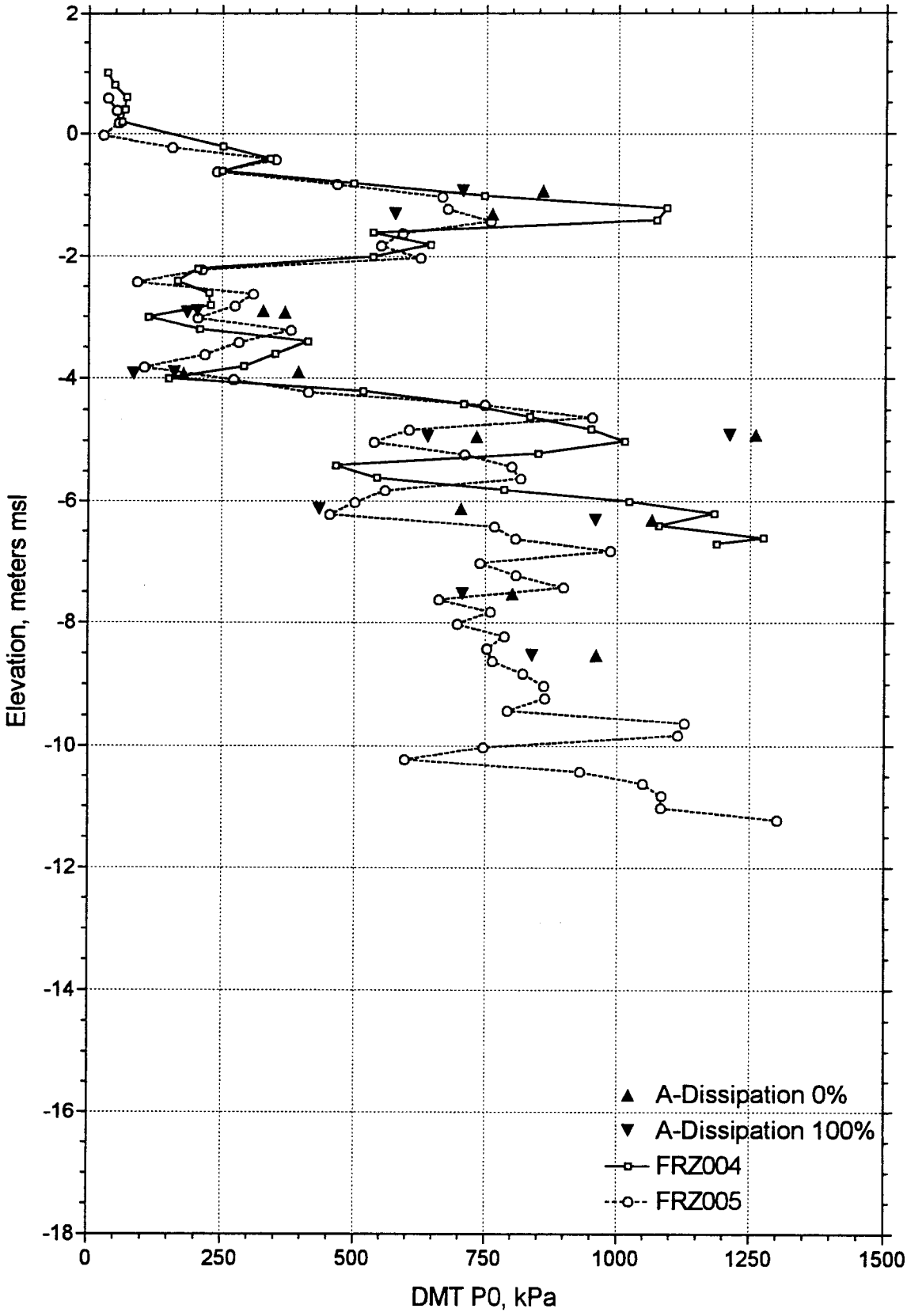


Figure J.1 DMT P0 Profile at Vilano East

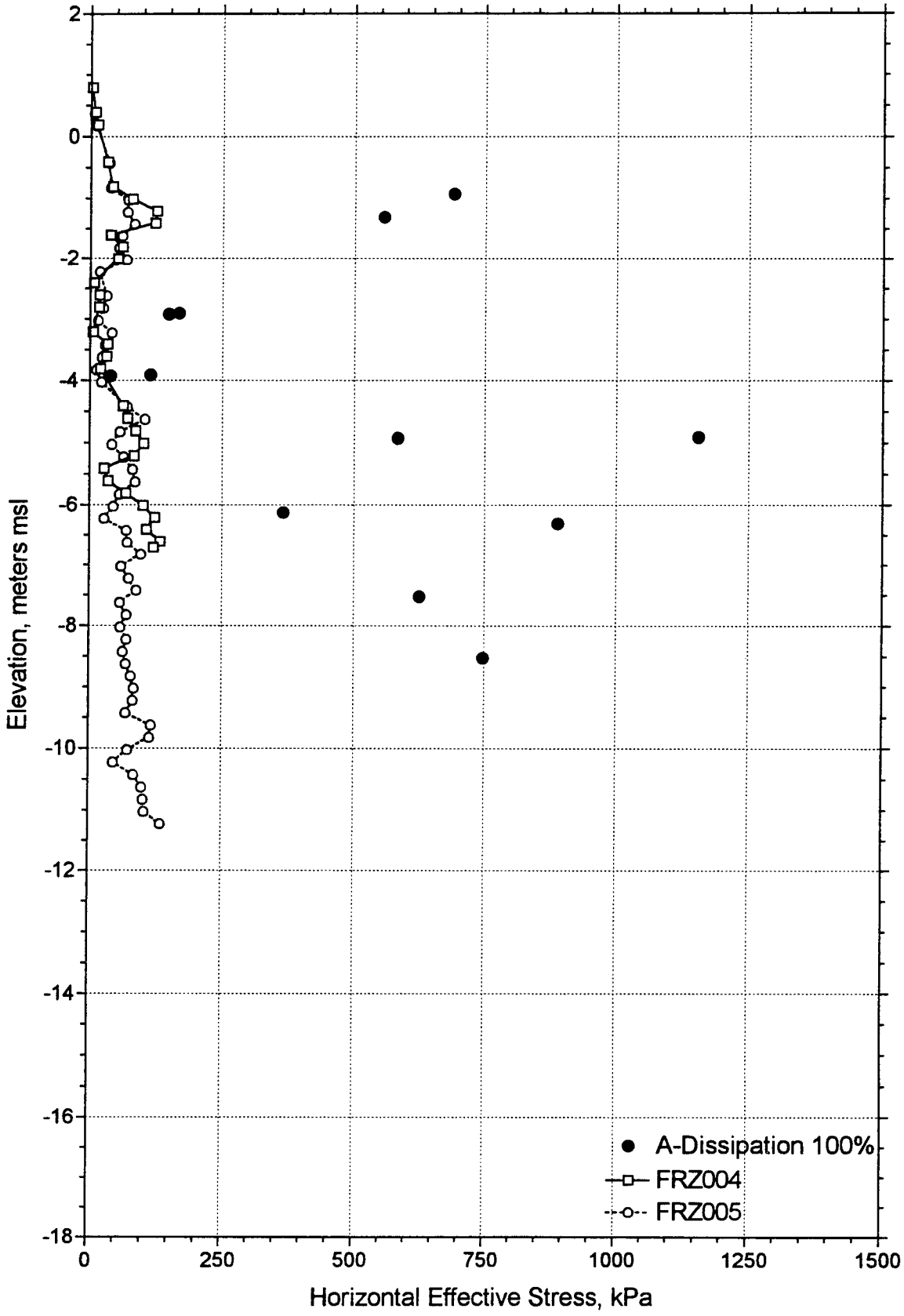


Figure J.2 A-Dissipation & Horizontal Effective Stress at Vilano East

Table J.2 Summary of DMT A-Dissipation Results: Vilano West

Elevation msl meters	Corrected A-Reading A', kPa %Dissipation			Sqrt Time minutes	Time minutes	Thrust, kN		
	0%	50%	100%	at 50% Dissipation		Initial	Final	Ratio Final/Init.
FRZ006								
-2.56	151.7	118.6	85.5	1.695	2.87	0.603	0.655	1.09
-6.56	383.8	346.6	309.4	4.332	18.77	14.879	10.464	0.70
-8.16	279.6	259.5	239.4	1.432	2.05	5.878	5.660	0.96
-9.76	264.9	229.4	193.9	0.797	0.64	2.114	2.344	1.11
-10.96	434.7	329.1	223.5	12.701	161.32	1.255	1.646	1.31
-12.36	441.8	349.4	256.9	11.064	122.41	1.000	1.690	1.69
-13.56	489.8	383.1	276.4	10.853	117.79	1.351	2.092	1.55
-14.96	448.3	391.5	334.7	6.073	36.88	1.225	1.968	1.61
FRZ007								
-6.49	563.0	493.0	423.0	1.580	2.50	19.503	14.204	0.73
-9.69	276.9	239.4	201.9	0.502	0.25	2.640	2.999	1.14
-10.09	393.9	317.2	240.4	1.901	3.61	1.479	2.186	1.48
-12.32	454.3	362.5	270.7	12.901	166.44	1.374	2.529	1.84
-14.89	441.8	401.0	360.2	1.809	3.27	2.728	3.109	1.14
-15.89	576.5	491.8	407.0	1.162	1.35	4.655	5.708	1.23

Elevation msl meters	DMT Material Index, ID			Equivalent P0, kPa %Dissipation			Hydrostat. Pore Press. U0, kPa	Horizontal Eff.Stress kPa
	above	below	average	0%	50%	100%	at 100% Dissipation	
FRZ006								
-2.56	0.24	0.39	0.32	149.9	117.2	84.5	30.0	54.4
-6.56	3.12	3.02	3.07	342.7	309.4	276.2	69.3	206.9
-8.16	2.07	2.30	2.19	249.6	231.7	213.7	85.0	128.8
-9.76	1.97	0.84	1.41	236.5	204.8	173.1	100.7	72.4
-10.96	0.35	0.40	0.38	429.5	325.2	220.8	112.5	108.4
-12.36	0.35	0.32	0.34	436.5	345.2	253.8	126.2	127.6
-13.56	0.33	0.33	0.33	483.9	378.5	273.1	138.0	135.1
-14.96	0.27	0.56	0.42	442.9	386.8	330.7	151.7	179.0
FRZ007								
-6.49	3.04	2.18	2.61	502.6	440.2	377.7	68.6	309.1
-9.69	1.55	1.54	1.55	247.2	213.7	180.3	100.0	80.3
-10.09	0.31	0.38	0.35	389.2	313.4	237.5	103.9	133.6
-12.32	0.31	0.32	0.32	448.8	358.2	267.5	125.8	141.6
-14.89	0.27	0.77	0.52	436.5	396.2	355.9	151.0	204.8
-15.89	0.43	1.53	0.98	514.7	439.1	363.4	160.8	202.5

Note: if ID < = 0.9 then P0 = 0.9880 A', if ID > 0.9 then P0 = 0.8928 A'

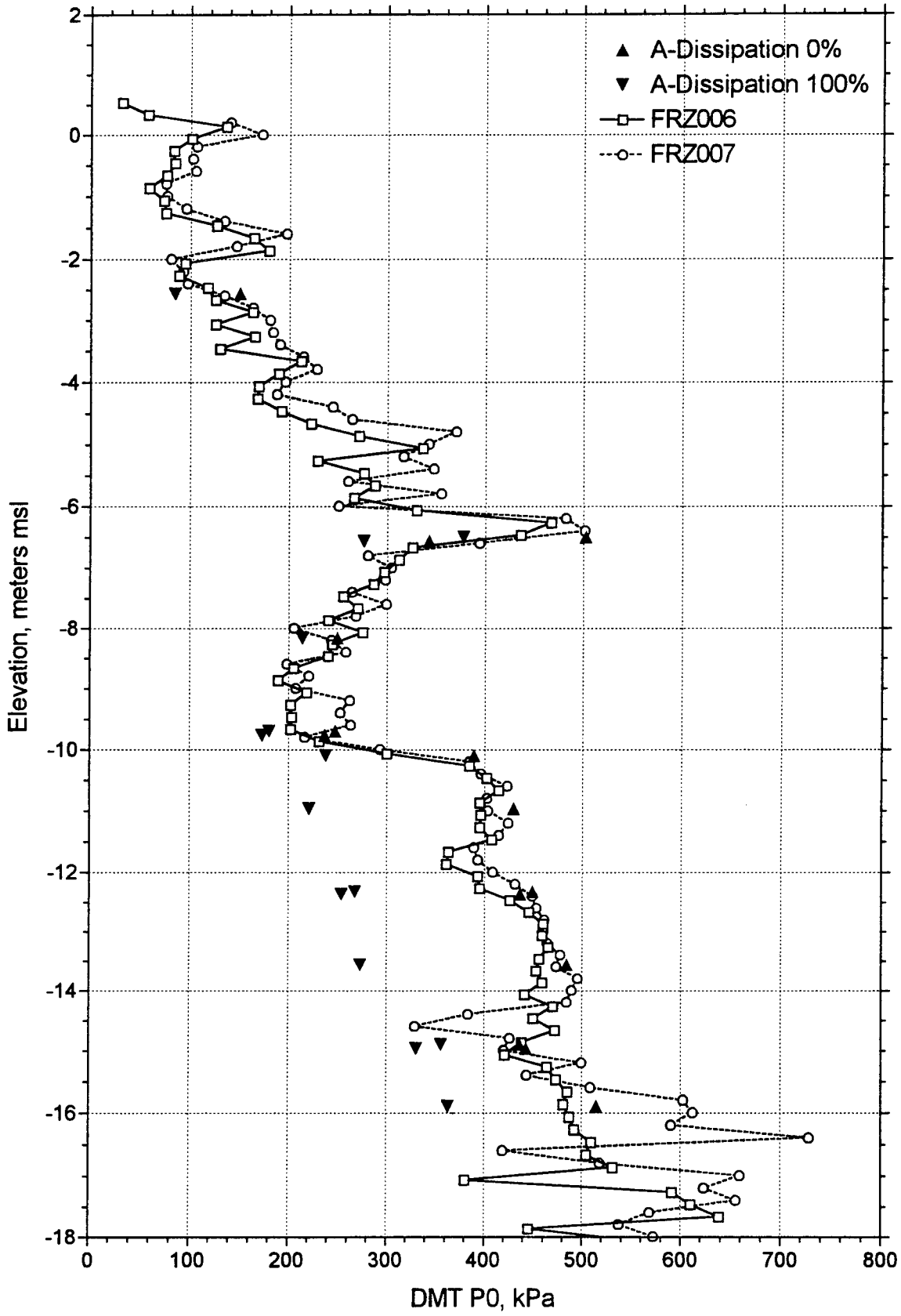


Figure J.3 DMT P0 Profile at Vilano West

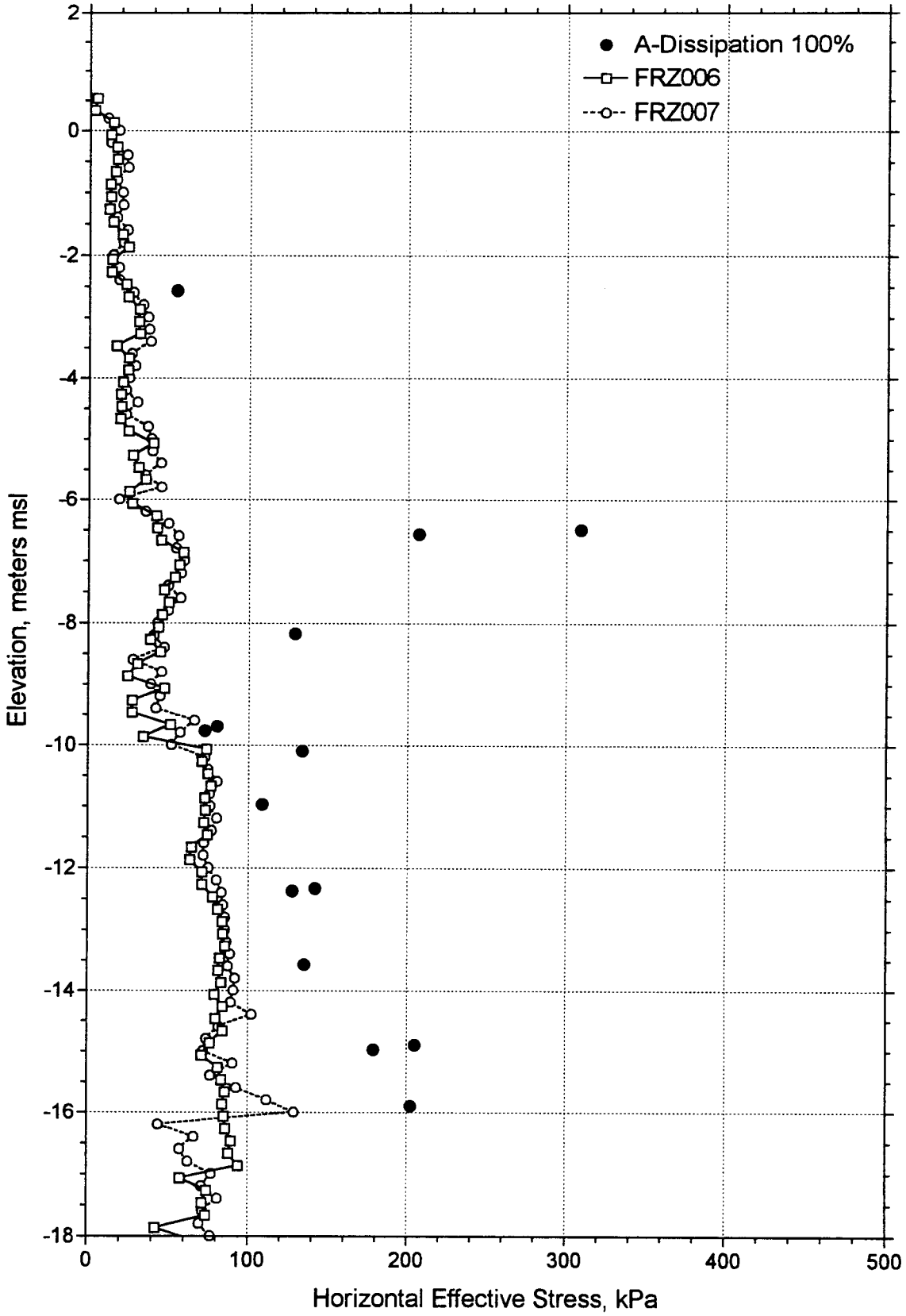


Figure J.4 A-Dissipation & Horizontal Effective Stress at Vilano West

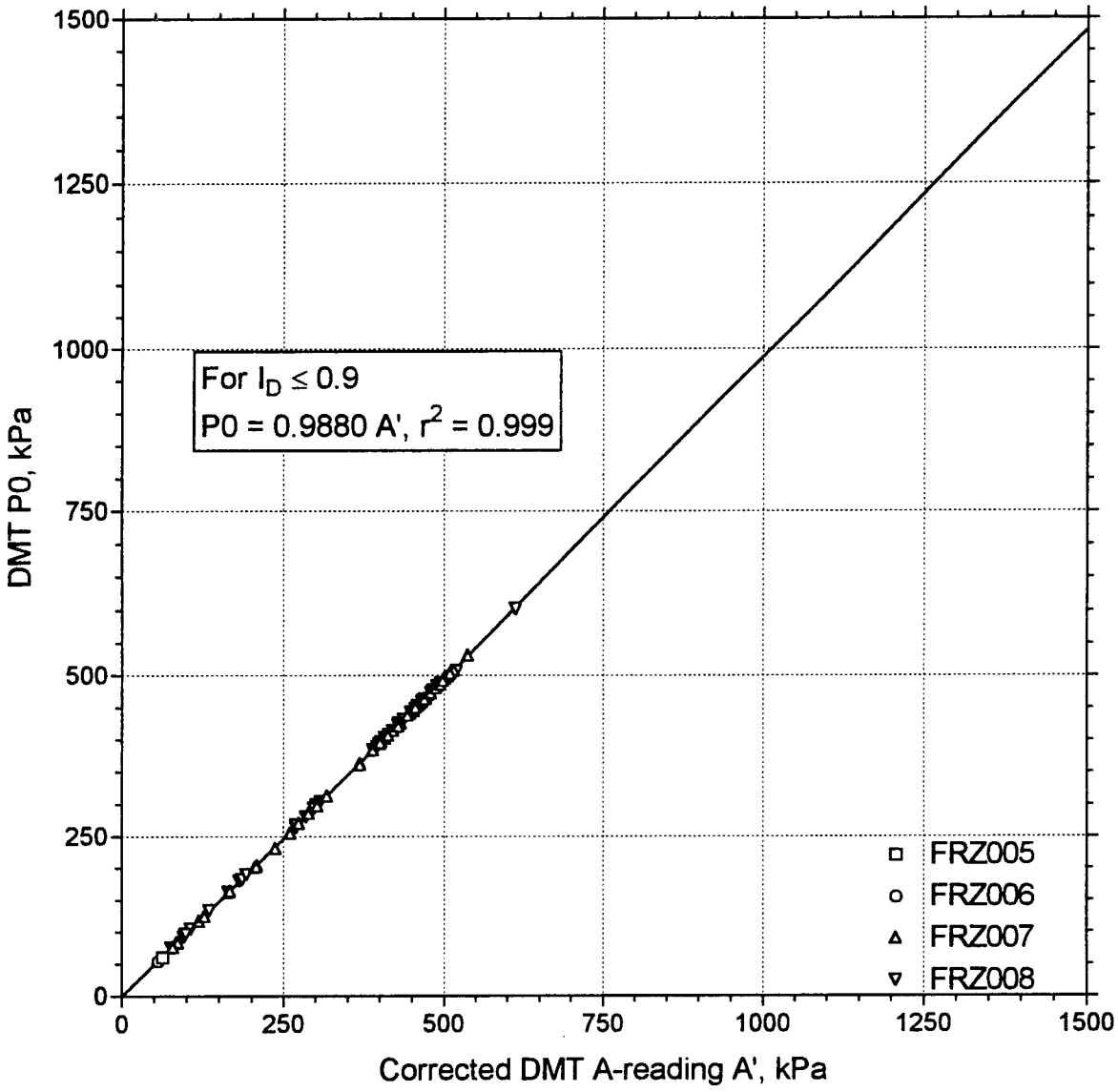


Figure J.5 Correlation of DMT A' to P0 for $I_D \leq 0.9$

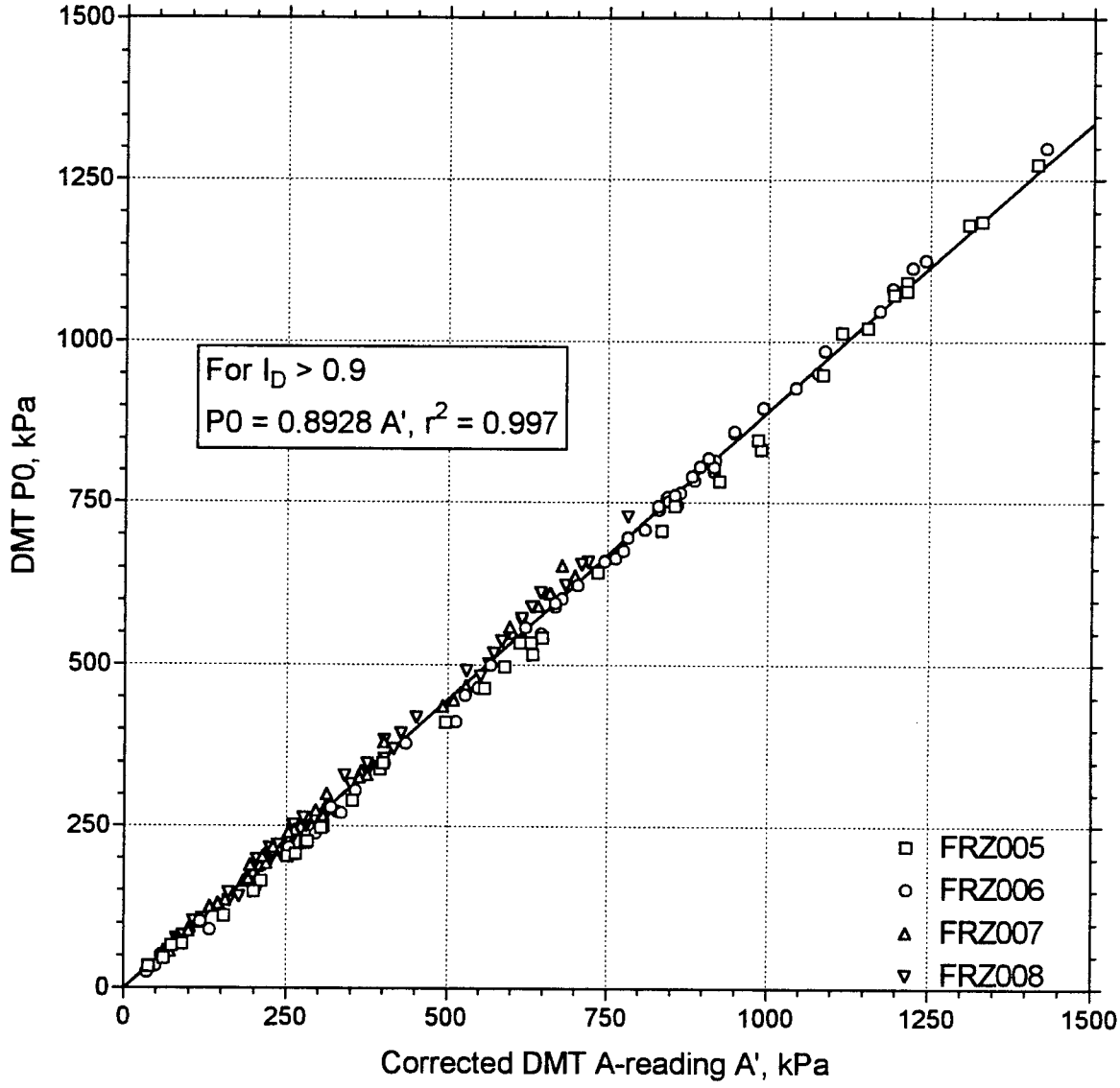


Figure J.6 Correlation of DMT A' to P0 for I_D > 0.9

Table J.3 DMT Sounding FRZ004 at VLE

DILATOMETER DATA LISTING & INTERPRETATION (BASED ON THE 1988 DILATOMETER MANUAL)
University of Florida
JOB FILE: UF Pile Freeze
LOCATION: Vilano East, Facing Pile
SNDG.BY : P.Bullock/B.Grajales
ANAL.BY : P.Bullock/T.Esin

SNDG. NO. FRZ004
PAGE 1
FILE NO. : 866

SNDG.DATE: 08/03/98
ANAL.DATE: 02/02/99

ANALYSIS PARAMETERS: LO RANGE = 9.80 BARS ROD DIAM. = 3.57 CM BL.THICK. = 15.0 MM SU FACTOR = 1.00
SURF.ELEV. = 1.20 M LO GAGE 0 = 0.00 BARS FR.RED.DIA. = 3.57 CM BL.WIDTH = 96.0 MM PHI FACTOR = 1.00
WATER DEPTH = 0.45 M HI GAGE 0 = 0.20 BARS LIN.ROD WT. = 6.50 KGF/M DELTA-A = 0.17 BARS OCR FACTOR = 1.00
SP.GR.WATER = 1.026 CAL GAGE 0 = 0.00 BARS DELTA/PHI = 0.50 DELTA-B = 0.23 BARS M FACTOR = 1.00
MAX SU ID = 0.60 SU OPTION = MARCHETTI MIN PHI ID = 1.20 OCR OPTION= MARCHETTI KO FACTOR = 1.00
UNIT CONVERSIONS: 1 BAR = 1.019 KGF/CM2 = 100 KPA = 1.044 TSF = 14.51 PSI 1 M = 3.2808 FT

Z (M)	ELEV (M)	THRUST (KGF)	A (BAR)	B (BAR)	C (BAR)	DA (BAR)	DB (BAR)	ZMRNG (BAR)	ZMLO (BAR)	ZMHI (BAR)	ZMCAL (BAR)	P0 (BAR)	P1 (BAR)	P2 (BAR)	U0 (BAR)	GAMMA (T/M3)	SVP (BAR)
0.20	1.00	697.	0.21	1.40		0.17	0.23	9.80	0.00	0.20	0.00	0.34	1.17		0.000	1.70	0.035
0.40	0.80	403.	0.43	3.37		0.17	0.23	9.80	0.00	0.20	0.00	0.47	3.14		0.000	1.70	0.068
0.60	0.60	718.	0.72	5.11		0.17	0.23	9.80	0.00	0.20	0.00	0.69	4.88		0.015	1.72	0.087
0.80	0.40	337.	0.56	2.43		0.17	0.23	9.80	0.00	0.20	0.00	0.66	2.20		0.035	1.72	0.100
1.00	0.20	120.	0.45	1.21		0.17	0.23	9.80	0.00	0.20	0.00	0.60	0.98		0.055	1.62	0.113
1.40	-0.20	3087.	2.88	14.65		0.18	0.22	9.80	0.00	0.20	0.00	2.50	14.23		0.096	1.91	0.142
1.60	-0.40	3384.	3.76	15.25		0.18	0.22	9.80	0.00	0.20	0.00	3.39	14.83		0.116	1.91	0.159
1.80	-0.60	3965.	2.84	14.30		0.18	0.22	9.80	0.00	0.20	0.00	2.48	13.88		0.136	1.91	0.177
2.00	-0.80	6436.	5.70	24.45	0.00	0.18	0.22	9.80	0.00	0.20	0.00	4.97	24.03	0.18	0.156	2.01	0.195
2.20	-1.00	7037.	8.36	30.75	0.02	0.18	0.22	9.80	0.00	0.20	0.00	7.45	30.33	0.20	0.176	2.01	0.214
2.40	-1.20	7157.	12.15	36.90	0.04	0.18	0.22	9.80	0.00	0.20	0.00	10.91	36.48	0.22	0.196	2.16	0.235
2.60	-1.40	7068.	11.95	36.60	0.14	0.18	0.19	9.80	0.00	0.20	0.00	10.72	36.21	0.31	0.216	2.16	0.257
2.80	-1.60	7126.	6.11	25.75	0.09	0.18	0.19	9.80	0.00	0.20	0.00	5.34	25.36	0.27	0.237	2.01	0.278
3.00	-1.80	6746.	7.16	26.10	0.10	0.18	0.19	9.80	0.00	0.20	0.00	6.43	25.71	0.28	0.257	2.01	0.297
3.20	-2.00	4708.	5.94	22.10	0.12	0.18	0.19	9.80	0.00	0.20	0.00	5.34	21.71	0.30	0.277	2.01	0.317
3.40	-2.20	2530.	2.33	12.55	0.13	0.18	0.19	9.80	0.00	0.20	0.00	2.03	12.16	0.31	0.297	1.91	0.335
3.60	-2.40	1960.	1.92	11.40	0.14	0.18	0.19	9.80	0.00	0.20	0.00	1.65	11.01	0.31	0.317	1.81	0.352
3.80	-2.60	2022.	2.61	14.15	0.16	0.18	0.19	9.80	0.00	0.20	0.00	2.24	13.76	0.34	0.337	1.91	0.368
4.00	-2.80	2194.	2.63	13.85	0.18	0.18	0.19	9.80	0.00	0.20	0.00	2.27	13.46	0.36	0.357	1.91	0.385
4.20	-3.00	2129.	1.35	10.20	0.21	0.18	0.19	9.80	0.00	0.20	0.00	1.11	9.81	0.39	0.378	1.81	0.402
4.40	-3.20	2596.	2.45	14.15	0.23	0.18	0.19	9.80	0.00	0.20	0.00	2.07	13.76	0.41	0.398	1.91	0.418
4.60	-3.40	3925.	4.78	22.25	0.24	0.18	0.19	9.80	0.00	0.20	0.00	4.11	21.86	0.42	0.418	2.01	0.437
4.80	-3.60	2810.	3.81	14.20	0.31	0.18	0.19	9.80	0.00	0.20	0.00	3.49	13.81	0.49	0.438	1.91	0.455
5.00	-3.80	2895.	3.33	16.00	0.28	0.18	0.19	9.80	0.00	0.20	0.00	2.90	15.61	0.46	0.458	1.91	0.472
5.20	-4.00	3254.	1.81	12.35	0.30	0.18	0.19	9.80	0.00	0.20	0.00	1.49	11.96	0.48	0.478	1.81	0.489
5.40	-4.20	5981.	6.14	29.90	0.32	0.18	0.19	9.80	0.00	0.20	0.00	5.16	29.51	0.50	0.498	2.01	0.506
5.60	-4.40	6760.	8.16	34.30	0.34	0.18	0.19	9.80	0.00	0.20	0.00	7.07	33.91	0.52	0.519	2.01	0.525
5.80	-4.60	8816.	9.90	41.30	0.35	0.18	0.19	9.80	0.00	0.20	0.00	8.33	40.91	0.53	0.539	2.16	0.546
6.00	-4.80	9548.	10.85	38.10	0.43	0.18	0.19	9.80	0.00	0.20	0.00	9.49	37.71	0.61	0.559	2.16	0.569
6.20	-5.00	8161.	11.15	31.55	0.48	0.18	0.19	9.80	0.00	0.20	0.00	10.13	31.16	0.66	0.579	2.16	0.591
6.40	-5.20	6640.	9.85	37.10	0.40	0.18	0.19	9.80	0.00	0.20	0.00	8.49	36.71	0.58	0.599	2.16	0.613
6.60	-5.40	5132.	5.39	24.55	0.43	0.18	0.19	9.80	0.00	0.20	0.00	4.64	24.16	0.61	0.619	2.01	0.634
6.80	-5.60	5912.	6.29	27.85	0.46	0.18	0.19	9.80	0.00	0.20	0.00	5.42	27.46	0.63	0.639	2.01	0.653
7.00	-5.80	7312.	9.05	37.45	0.48	0.18	0.19	9.80	0.00	0.20	0.00	7.84	37.06	0.66	0.659	2.16	0.674
7.20	-6.00	8162.	11.55	38.35	0.56	0.18	0.19	9.80	0.00	0.20	0.00	10.21	37.96	0.74	0.680	2.16	0.696
7.40	-6.20	8419.	13.40	39.05	0.61	0.18	0.16	9.80	0.00	0.50	0.00	11.81	38.39	0.79	0.700	2.16	0.718
7.60	-6.40	8201.	12.45	39.75	0.63	0.18	0.16	9.80	0.00	0.50	0.00	10.78	39.09	0.81	0.720	2.16	0.741
7.80	-6.60	8917.	14.45	42.50	0.70	0.18	0.16	9.80	0.00	0.50	0.00	12.74	41.84	0.88	0.740	2.16	0.763
7.90	-6.70	8677.	13.60	42.40	0.70	0.18	0.16	9.80	0.00	0.50	0.00	11.86	41.74	0.88	0.750	2.16	0.774

END OF SOUNDING (INTERPRETED SOIL PARAMETERS ON NEXT PAGE)

Table J.3 continued

DILATOMETER DATA LISTING & INTERPRETATION (BASED ON THE 1988 DILATOMETER MANUAL) SNDG. NO. FRZ004
University of Florida PAGE 2
JOB FILE: UF Pile Freeze FILE NO. : 866
LOCATION: Vilano East, Facing Pile
SNDG.BY : P.Bullock/B.Grajales SNDG.DATE: 08/03/98
ANAL.BY : P.Bullock/T.Esin ANAL.DATE: 02/02/99

ANALYSIS PARAMETERS: LO RANGE = 9.80 BARS ROD DIAM. = 3.57 CM BL.THICK. = 15.0 MM SU FACTOR = 1.00
SURF.ELEV. = 1.20 M LO GAGE 0 = 0.00 BARS FR.RED.DIA. = 3.57 CM BL.WIDTH = 96.0 MM PHI FACTOR = 1.00
WATER DEPTH = 0.45 M HI GAGE 0 = 0.20 BARS LIN.ROD WT. = 6.50 KGF/M DELTA-A = 0.17 BARS OCR FACTOR = 1.00
SP.GR.WATER = 1.026 CAL GAGE 0 = 0.00 BARS DELTA/PHI = 0.50 DELTA-B = 0.23 BARS M FACTOR = 1.00
MAX SU ID = 0.60 SU OPTION = MARCHETTI MIN PHI ID = 1.20 OCR OPTION= MARCHETTI KO FACTOR = 1.00
UNIT CONVERSIONS: 1 BAR = 1.019 KGF/CM2 = 100 KPA = 1.044 TSF = 14.51 PSI 1 M = 3.2808 FT

Z (M)	ELEV (M)	KD	ID	UD	ED (BAR)	KO	SU (BAR)	QD (BAR)	PHI (DEG)	SIGFF (BAR)	PHIO (DEG)	PC (BAR)	OCR	M (BAR)	SOIL TYPE
0.20	1.00	9.64	2.45		29.									71.	SILTY SAND
0.40	0.80	6.92	5.63		92.	0.36		17.6	48.8	0.12	44.9	0.08	1.2	202.	SAND
0.60	0.60	7.78	6.20		145.									332.	SAND
0.80	0.40	6.19	2.48		54.	0.80		13.8	42.0	0.17	37.7	0.45	4.5	111.	SILTY SAND
1.00	0.20	4.84	0.69		13.	1.13						0.45	4.0	23.	CLAYEY SILT
1.40	-0.20	16.95	4.88		407.									1221.	SAND
1.60	-0.40	20.57	3.49		397.	1.99		147.7	48.8	0.28	46.1	4.62	29.0	1263.	SAND
1.80	-0.60	13.25	4.87		396.									1095.	SAND
2.00	-0.80	24.68	3.96	0.00	661.	2.12		290.4	50.5	0.35	48.2	6.40	32.8	2219.	SAND
2.20	-1.00	33.92	3.15	0.00	794.	3.67		302.7	48.4	0.37	46.0	18.94	88.4	2903.	SILTY SAND
2.40	-1.20	45.58	2.39	0.00	887.	5.29		284.5	46.4	0.41	43.9	42.10	179.1	3492.	SILTY SAND
2.60	-1.40	40.80	2.43	0.01	885.	4.72		281.6	46.4	0.44	44.0	37.19	144.5	3389.	SILTY SAND
2.80	-1.60	18.34	3.92	0.01	695.	1.34		323.6	50.6	0.49	48.7	4.00	14.4	2136.	SAND
3.00	-1.80	20.74	3.13	0.00	669.	2.04		297.0	48.7	0.52	46.7	8.95	30.1	2135.	SILTY SAND
3.20	-2.00	15.98	3.23	0.00	568.	1.63		202.7	47.4	0.55	45.4	6.23	19.7	1672.	SILTY SAND
3.40	-2.20	5.17	5.85	0.01	352.									677.	SAND
3.60	-2.40	3.80	7.00	-0.00	325.	0.19		91.8	47.1	0.61	45.2	0.13	0.4	539.	SAND
3.80	-2.60	5.16	6.07	0.00	400.	0.47		91.0	45.6	0.63	43.7	0.68	1.9	770.	SAND
4.00	-2.80	4.97	5.84	0.00	388.	0.42		99.6	46.1	0.66	44.2	0.58	1.5	735.	SAND
4.20	-3.00	1.83	11.85	0.01	302.									309.	SAND
4.40	-3.20	4.00	6.98	0.01	406.	0.12		121.8	48.0	0.73	46.4	0.06	0.2	691.	SAND
4.60	-3.40	8.46	4.80	0.00	616.	0.75		174.1	47.1	0.76	45.5	2.02	4.6	1450.	SAND
4.80	-3.60	6.72	3.37	0.02	358.	0.68		122.9	45.4	0.78	43.7	1.66	3.6	771.	SAND
5.00	-3.80	5.18	5.20	-0.00	441.	0.42		131.6	46.4	0.81	44.9	0.71	1.5	850.	SAND
5.20	-4.00	2.07	10.33	-0.00	363.									412.	SAND
5.40	-4.20	9.21	5.22	0.00	845.									2052.	SAND
5.60	-4.40	12.46	4.10	0.00	931.	1.18		296.7	47.6	0.91	46.2	5.73	10.9	2523.	SAND
5.80	-4.60	14.26	4.18	-0.00	1131.	1.30		391.2	48.4	0.95	47.1	7.22	13.2	3206.	SAND
6.00	-4.80	15.70	3.16	0.01	979.	1.51		419.9	48.1	0.99	46.9	9.87	17.4	2867.	SILTY SAND
6.20	-5.00	16.17	2.20	0.01	730.	1.72		345.9	46.7	1.02	45.5	12.75	21.6	2156.	SILTY SAND
6.40	-5.20	12.87	3.58	-0.00	979.	1.36		281.6	46.3	1.06	45.1	8.45	13.8	2682.	SAND
6.60	-5.40	6.34	4.86	-0.00	677.	0.43		233.8	47.7	1.10	46.6	1.06	1.7	1425.	SAND
6.80	-5.60	7.31	4.61	-0.00	765.	0.53		267.6	47.8	1.14	46.8	1.63	2.5	1705.	SAND
7.00	-5.80	10.65	4.07	0.00	1014.	1.01		320.8	47.2	1.17	46.1	5.40	8.0	2596.	SAND
7.20	-6.00	13.69	2.91	0.01	963.	1.44		346.9	46.5	1.20	45.4	10.76	15.5	2694.	SILTY SAND
7.40	-6.20	15.47	2.39	0.01	922.	1.70		348.7	45.9	1.23	44.8	15.15	21.1	2687.	SILTY SAND
7.60	-6.40	13.59	2.81	0.01	982.	1.45		345.4	46.1	1.27	45.1	11.63	15.7	2741.	SILTY SAND
7.80	-6.60	15.74	2.42	0.01	1010.	1.74		367.7	45.8	1.31	44.8	16.79	22.0	2958.	SILTY SAND
7.90	-6.70	14.35	2.69	0.01	1037.	1.56		362.0	45.9	1.33	45.0	13.87	17.9	2947.	SILTY SAND

END OF SOUNDING

Table J.4 DMT Sounding FRZ005 at VLE

DILATOMETER DATA LISTING & INTERPRETATION (BASED ON THE 1988 DILATOMETER MANUAL)
University of Florida
JOB FILE: UF Pile Freeze
LOCATION: Vilano East, Northwest of Pile, Facing Pile
SNDG.BY : P.Bullock/B.Grajales
ANAL.BY : P.Bullock/T.Esin

SNDG. NO. FRZ005
PAGE 1
FILE NO. : 866

SNDG.DATE: 08/11/98
ANAL.DATE: 11/16/98

ANALYSIS PARAMETERS:
SURF.ELEV. = 0.98 M
WATER DEPTH = 0.23 M
SP.GR.WATER = 1.026
MAX SU ID = 0.60
LO RANGE = 9.75 BARS
LO GAGE 0 = 0.00 BARS
HI GAGE 0 = 0.50 BARS
CAL GAGE 0 = 0.00 BARS
SU OPTION = MARCHETTI
ROD DIAM. = 3.57 CM
FR.RED.DIA. = 3.57 CM
LIN.ROD WT. = 6.50 KGF/M
DELTA/PHI = 0.50
MIN PHI ID = 1.20
BL.THICK. = 15.0 MM
BL.WIDTH = 96.0 MM
DELTA-A = 0.16 BARS
DELTA-B = 0.14 BARS
OCR OPTION= MARCHETTI
SU FACTOR = 1.00
PHI FACTOR = 1.00
OCR FACTOR = 1.00
M FACTOR = 1.00
KO FACTOR = 1.00
UNIT CONVERSIONS: 1 BAR = 1.019 KGF/CM2 = 100 KPA = 1.044 TSF = 14.51 PSI 1 M = 3.2808 FT

Z (M)	ELEV (M)	THRUST (KGF)	A (BAR)	B (BAR)	C (BAR)	DA (BAR)	DB (BAR)	ZMRNG (BAR)	ZMLO (BAR)	ZMHI (BAR)	ZMCAL (BAR)	P0 (BAR)	P1 (BAR)	P2 (BAR)	U0 (BAR)	GAMMA (T/M3)	SVP (BAR)
0.40	0.58	531.	0.32	3.40		0.16	0.14	9.75	0.00	0.50	0.00	0.35	3.26		0.017	1.72	0.071
0.60	0.38	256.	0.41	2.04		0.16	0.14	9.75	0.00	0.50	0.00	0.51	1.90		0.037	1.72	0.085
0.80	0.18	110.	0.40	1.00		0.16	0.14	9.75	0.00	0.50	0.00	0.55	0.86		0.057	1.52	0.096
1.00	-0.02	826.	0.19	2.25		0.16	0.14	9.75	0.00	0.50	0.00	0.26	2.11		0.078	1.72	0.108
1.20	-0.22	2681.	1.85	11.75		0.16	0.14	9.75	0.00	0.50	0.00	1.55	11.11		0.098	1.81	0.122
1.40	-0.42	3154.	3.84	14.75		0.16	0.14	9.75	0.00	0.50	0.00	3.49	14.11		0.118	1.91	0.139
1.60	-0.62	3654.	2.78	14.45		0.16	0.14	9.75	0.00	0.50	0.00	2.39	13.81		0.138	1.91	0.156
1.80	-0.82	6032.	5.30	22.35	0.02	0.16	0.14	9.75	0.00	0.50	0.00	4.65	21.71	0.18	0.158	2.01	0.174
2.00	-1.02	6068.	7.45	27.45	0.03	0.16	0.14	9.75	0.00	0.50	0.00	6.65	26.81	0.19	0.178	2.01	0.194
2.20	-1.22	6620.	7.58	28.05	0.07	0.16	0.14	9.75	0.00	0.50	0.00	6.76	27.41	0.23	0.198	2.01	0.213
2.40	-1.42	5807.	8.25	25.65	0.10	0.16	0.14	9.75	0.00	0.50	0.00	7.58	25.01	0.26	0.218	2.01	0.232
2.60	-1.62	5255.	6.51	22.70	0.13	0.16	0.14	9.75	0.00	0.50	0.00	5.90	22.06	0.28	0.239	2.01	0.252
2.80	-1.82	5068.	6.29	26.25	0.09	0.16	0.14	9.75	0.00	0.50	0.00	5.49	25.61	0.25	0.259	2.01	0.271
3.00	-2.02	3725.	6.86	23.25	0.13	0.16	0.14	9.75	0.00	0.50	0.00	6.24	22.61	0.29	0.279	2.01	0.290
3.20	-2.22	1732.	2.35	11.15	0.14	0.16	0.14	9.75	0.00	0.50	0.00	2.11	10.51	0.30	0.299	1.91	0.309
3.40	-2.42	1574.	1.15	10.25	0.16	0.16	0.14	9.75	0.00	0.50	0.00	0.90	9.61	0.32	0.319	1.81	0.325
3.60	-2.62	1920.	3.40	14.05	0.18	0.16	0.14	9.75	0.00	0.50	0.00	3.07	13.41	0.34	0.339	1.91	0.342
3.80	-2.82	2097.	3.11	14.75	0.20	0.16	0.14	9.75	0.00	0.50	0.00	2.73	14.11	0.36	0.359	1.91	0.359
4.00	-3.02	1850.	2.31	11.75	0.22	0.16	0.14	9.75	0.00	0.50	0.00	2.03	11.11	0.38	0.380	1.91	0.376
4.20	-3.22	2136.	4.18	15.95	0.25	0.16	0.14	9.75	0.00	0.50	0.00	3.79	15.31	0.41	0.400	1.91	0.394
4.40	-3.42	1737.	3.02	11.45	0.26	0.16	0.14	9.75	0.00	0.50	0.00	2.80	10.81	0.42	0.420	1.91	0.411
4.60	-3.62	1350.	2.37	10.30	0.28	0.16	0.14	9.75	0.00	0.50	0.00	2.17	9.66	0.44	0.440	1.91	0.429
4.80	-3.82	763.	1.01	4.24	0.30	0.16	0.14	9.75	0.00	0.50	0.00	1.03	4.10	0.46	0.460	1.72	0.444
5.00	-4.02	2348.	3.18	16.60	0.32	0.16	0.14	9.75	0.00	0.50	0.00	2.71	15.96	0.48	0.480	1.91	0.459
5.20	-4.22	5537.	4.96	25.75	0.34	0.16	0.14	9.75	0.00	0.50	0.00	4.12	25.11	0.50	0.500	2.01	0.478
5.40	-4.42	6513.	8.42	31.40	0.37	0.16	0.14	9.75	0.00	0.50	0.00	7.47	30.76	0.53	0.521	2.01	0.497
5.60	-4.62	5490.	11.10	36.30	0.39	0.16	0.14	9.75	0.00	0.50	0.00	9.51	35.66	0.55	0.541	2.16	0.518
5.80	-4.82	4743.	6.62	22.35	0.40	0.16	0.14	9.75	0.00	0.50	0.00	6.03	21.71	0.56	0.561	2.01	0.539
6.00	-5.02	5291.	6.02	22.95	0.49	0.16	0.14	9.75	0.00	0.50	0.00	5.37	22.31	0.64	0.581	2.01	0.558
6.20	-5.22	6347.	7.91	28.35	0.47	0.16	0.14	9.75	0.00	0.50	0.00	7.09	27.71	0.63	0.601	2.01	0.577
6.40	-5.42	5709.	8.99	32.90	0.47	0.16	0.14	9.75	0.00	0.50	0.00	7.99	32.26	0.63	0.621	2.16	0.598
6.60	-5.62	5015.	9.01	29.85	0.49	0.16	0.14	9.75	0.00	0.50	0.00	8.16	29.21	0.64	0.641	2.01	0.619
6.80	-5.82	3566.	6.04	19.15	0.50	0.16	0.14	9.75	0.00	0.50	0.00	5.58	18.51	0.66	0.662	2.01	0.638
7.00	-6.02	3856.	5.50	19.55	0.52	0.16	0.14	9.75	0.00	0.50	0.00	5.00	18.91	0.68	0.682	2.01	0.658
7.20	-6.22	4821.	5.10	20.60	0.56	0.16	0.14	9.75	0.00	0.50	0.00	4.53	19.96	0.72	0.702	2.01	0.677
7.40	-6.42	6475.	8.46	28.50	0.57	0.16	0.14	9.75	0.00	0.50	0.00	7.66	27.86	0.74	0.722	2.01	0.696
7.60	-6.62	7212.	8.99	31.45	0.62	0.16	0.14	9.75	0.00	0.50	0.00	8.06	30.81	0.77	0.742	2.01	0.716
7.80	-6.82	7502.	11.20	31.45	0.73	0.16	0.14	9.75	0.00	0.50	0.00	9.86	30.81	0.88	0.762	2.16	0.736
8.00	-7.02	6979.	8.13	26.90	0.66	0.16	0.14	9.75	0.00	0.50	0.00	7.39	26.26	0.82	0.782	2.01	0.757
8.20	-7.22	6498.	8.77	26.65	0.69	0.16	0.14	9.75	0.00	0.50	0.00	8.07	26.01	0.85	0.802	2.01	0.776
8.40	-7.42	6491.	10.25	29.05	0.71	0.16	0.14	9.75	0.00	0.50	0.00	8.98	28.41	0.88	0.823	2.16	0.797
8.60	-7.62	5446.	7.28	24.80	0.70	0.16	0.14	9.75	0.00	0.50	0.00	6.60	24.16	0.86	0.843	2.01	0.818
8.80	-7.82	5782.	8.26	25.55	0.73	0.16	0.14	9.75	0.00	0.50	0.00	7.59	24.91	0.88	0.863	2.01	0.837
9.00	-8.02	6026.	7.64	25.35	0.75	0.16	0.14	9.75	0.00	0.50	0.00	6.96	24.71	0.90	0.883	2.01	0.857
9.20	-8.22	6385.	8.68	29.35	0.79	0.16	0.14	9.75	0.00	0.50	0.00	7.85	28.71	0.95	0.903	2.01	0.876
9.40	-8.42	6494.	8.28	27.55	0.80	0.16	0.14	9.75	0.00	0.50	0.00	7.52	26.91	0.96	0.923	2.01	0.895
9.60	-8.62	5858.	8.38	27.55	0.81	0.16	0.14	9.75	0.00	0.50	0.00	7.62	26.91	0.97	0.943	2.01	0.915
9.80	-8.82	5915.	8.90	26.85	0.86	0.16	0.14	9.75	0.00	0.50	0.00	8.20	26.21	1.01	0.964	2.01	0.934
10.00	-9.02	6000.	9.30	27.35	0.88	0.16	0.14	9.75	0.00	0.50	0.00	8.60	26.71	1.04	0.984	2.01	0.953
10.20	-9.22	6089.	9.80	26.85	0.90	0.16	0.14	9.75	0.00	0.50	0.00	8.62	26.21	1.06	1.004	2.01	0.973
10.40	-9.42	6402.	8.64	27.20	0.92	0.16	0.14	9.75	0.00	0.50	0.00	7.91	26.56	1.08	1.024	2.01	0.992
10.60	-9.62	7075.	12.75	36.05	0.98	0.16	0.14	9.75	0.00	0.50	0.00	11.26	35.41	1.13	1.044	2.16	1.013
10.80	-9.82	7104.	12.55	34.25	0.99	0.16	0.14	9.75	0.00	0.50	0.00	11.14	33.61	1.15	1.064	2.16	1.035
11.00	-10.02	4996.	8.12	25.65	0.98	0.16	0.14	9.75	0.00	0.50	0.00	7.45	25.01	1.14	1.084	2.01	1.056
11.20	-10.22	5259.	6.51	21.50	1.14	0.16	0.14	9.75	0.00	0.50	0.00	5.96	20.86	1.30	1.105	2.01	1.075
11.40	-10.42	7320.	10.75	33.35	1.02	0.16	0.14	9.75	0.00	0.50	0.00	9.29	32.71	1.18	1.125	2.16	1.096
11.60	-10.62	7689.	12.05	36.85	1.05	0.16	0.14	9.75	0.00	0.50	0.00	10.48	36.21	1.21	1.145	2.16	1.118
11.80	-10.82	8141.	12.45	38.40	1.06	0.16	0.14	9.75	0.00	0.50	0.00	10.83	37.76	1.22	1.165	2.16	1.140
12.00	-11.02	7638.	12.25	34.30	1.08	0.16	0.14	9.75	0.00	0.50	0.00	10.82	33.66	1.24	1.185	2.16	1.162

CONTINUED ON NEXT PAGE

Table J.4 continued

DILATOMETER DATA LISTING & INTERPRETATION (BASED ON THE 1988 DILATOMETER MANUAL) SNDG. NO. FRZ005
University of Florida PAGE 2
JOB FILE: UF Pile Freeze FILE NO. : 866
LOCATION: Vilano East, Northwest of Pile, Facing Pile
SNDG.BY : P.Bullock/B.Grajales SNDG.DATE: 08/11/98
ANAL.BY : P.Bullock/T.Esin ANAL.DATE: 11/16/98

ANALYSIS PARAMETERS: LO RANGE = 9.75 BARS ROD DIAM. = 3.57 CM BL.THICK. = 15.0 MM SU FACTOR = 1.00
SURF.ELEV. = 0.98 M LO GAGE 0 = 0.00 BARS FR.RED.DIA. = 3.57 CM BL.WIDTH = 96.0 MM PHI FACTOR = 1.00
WATER DEPTH = 0.23 M HI GAGE 0 = 0.50 BARS LIN.ROD WT. = 6.50 KGF/M DELTA-A = 0.16 BARS OCR FACTOR = 1.00
SP.GR.WATER = 1.026 CAL GAGE 0 = 0.00 BARS DELTA/PHI = 0.50 DELTA-B = 0.14 BARS M FACTOR = 1.00
MAX SU ID = 0.60 SU OPTION = MARCHETTI MIN PHI ID = 1.20 OCR OPTION= MARCHETTI KO FACTOR = 1.00
UNIT CONVERSIONS: 1 BAR = 1.019 KGF/CM2 = 100 KPA = 1.044 TSF = 14.51 PSI 1 M = 3.2808 FT

Z (M)	ELEV (M)	THRUST (KGF)	A (BAR)	B (BAR)	C (BAR)	DA (BAR)	DB (BAR)	ZMRNG (BAR)	ZMLO (BAR)	ZMHI (BAR)	ZMCAL (BAR)	P0 (BAR)	P1 (BAR)	P2 (BAR)	U0 (BAR)	GAMMA (T/M3)	SVP (BAR)
12.20	-11.22	8104.	14.60	40.15	1.10	0.16	0.14	9.75	0.00	0.50	0.00	13.00	39.51	1.26	1.205	2.16	1.185

END OF SOUNDING (INTERPRETED SOIL PARAMETERS ON NEXT PAGE)

Table J.4 continued

DILATOMETER DATA LISTING & INTERPRETATION (BASED ON THE 1988 DILATOMETER MANUAL)
University of Florida
JOB FILE: UF Pile Freeze
LOCATION: Vilano East, Northwest of Pile, Facing Pile
SNDG.BY : P.Bullock/B.Grajales
ANAL.BY : P.Bullock/T.Esin

SNDG. NO. FRZ005
PAGE 3
FILE NO. : 866

SNDG.DATE: 08/11/98
ANAL.DATE: 11/16/98

ANALYSIS PARAMETERS: LO RANGE = 9.75 BARS ROD DIAM. = 3.57 CM BL.THICK. = 15.0 MM SU FACTOR = 1.00
SURF.ELEV. = 0.98 M LO GAGE 0 = 0.00 BARS FR.RED.DIA. = 3.57 CM BL.WIDTH = 96.0 MM PHI FACTOR = 1.00
WATER DEPTH = 0.23 M HI GAGE 0 = 0.50 BARS LIN.ROD WT. = 6.50 KGF/M DELTA-A = 0.16 BARS OCR FACTOR = 1.00
SP.GR.WATER = 1.026 CAL GAGE 0 = 0.00 BARS DELTA/PHI = 0.50 DELTA-B = 0.14 BARS M FACTOR = 1.00
MAX SU ID = 0.60 SU OPTION = MARCHETTI MIN PHI ID = 1.20 OCR OPTION= MARCHETTI KO FACTOR = 1.00
UNIT CONVERSIONS: 1 BAR = 1.019 KGF/CM2 = 100 KPA = 1.044 TSF = 14.51 PSI 1 M = 3.2808 FT

Z (M)	ELEV (M)	KD	ID	UD	ED (BAR)	KO	SU (BAR)	QD (BAR)	PHI (DEG)	SIGFF (BAR)	PHIO (DEG)	PC (BAR)	OCR	M (BAR)	SOIL TYPE
0.40	0.58	4.62	8.89		101.									185.	SAND
0.60	0.38	5.58	2.95		48.	0.73		10.7	41.8	0.14	37.2	0.32	3.8	96.	SILTY SAND
0.80	0.18	5.11	0.64		11.	1.18						0.42	4.3	20.	MUD
1.00	-0.02	1.73	9.88		64.									63.	SAND
1.20	-0.22	11.88	6.58		332.									883.	SAND
1.40	-0.42	24.36	3.14		368.	2.51		135.2	48.5	0.24	45.5	6.10	44.0	1231.	SILTY SAND
1.60	-0.62	14.45	5.06		396.									1129.	SAND
1.80	-0.82	25.77	3.79	0.00	592.	2.18		272.1	50.7	0.31	48.3	6.04	34.6	2010.	SAND
2.00	-1.02	33.40	3.12	0.00	700.	3.62		259.6	48.3	0.34	45.8	16.73	86.3	2548.	SILTY SAND
2.20	-1.22	30.80	3.15	0.00	717.	3.26		287.0	48.6	0.37	46.2	15.17	71.2	2555.	SILTY SAND
2.40	-1.42	31.67	2.37	0.01	605.	3.54		240.6	47.2	0.40	44.7	19.45	83.7	2172.	SILTY SAND
2.60	-1.62	22.51	2.85	0.01	561.	2.37		225.3	47.8	0.44	45.6	9.94	39.5	1832.	SILTY SAND
2.80	-1.82	19.31	3.84	-0.00	698.	1.97		219.2	47.9	0.47	45.8	7.63	28.2	2180.	SAND
3.00	-2.02	20.53	2.75	0.00	568.	2.36		147.1	45.2	0.50	42.9	11.35	39.1	1807.	SILTY SAND
3.20	-2.22	5.85	4.65	0.00	292.	0.58		76.7	45.4	0.53	43.1	0.83	2.7	593.	SAND
3.40	-2.42	1.78	15.05	0.00	302.									303.	SAND
3.60	-2.62	7.99	3.79	0.00	359.	0.91		80.0	44.1	0.58	41.9	2.13	6.2	827.	SAND
3.80	-2.82	6.60	4.81	0.00	395.	0.68		91.4	45.1	0.61	43.1	1.31	3.7	845.	SAND
4.00	-3.02	4.40	5.49	0.00	315.	0.40		84.2	45.4	0.64	43.5	0.50	1.3	562.	SAND
4.20	-3.22	8.61	3.40	0.00	400.	1.02		86.7	43.5	0.66	41.5	3.00	7.6	947.	SAND
4.40	-3.42	5.79	3.37	0.00	278.	0.69		73.8	43.3	0.69	41.3	1.45	3.5	563.	SAND
4.60	-3.62	4.03	4.33	0.00	260.	0.52		59.1	42.3	0.72	40.3	0.84	2.0	445.	SAND
4.80	-3.82	1.28	5.41	0.01	107.	0.27		37.5	40.3	0.73	38.2	0.21	0.5	91.	SAND
5.00	-4.02	4.84	5.96	0.00	460.	0.46		105.7	45.3	0.79	43.6	0.80	1.7	860.	SAND
5.20	-4.22	7.57	5.81	0.00	728.									1645.	SAND
5.40	-4.42	13.98	3.35	0.00	808.	1.41		281.2	47.1	0.86	45.7	7.50	15.1	2277.	SAND
5.60	-4.62	17.33	2.91	0.00	907.	2.00		216.2	44.7	0.88	43.2	14.81	28.6	2740.	SILTY SAND
5.80	-4.82	10.16	2.87	0.00	544.	1.05		203.3	46.0	0.93	44.6	4.55	8.4	1368.	SILTY SAND
6.00	-5.02	8.59	3.53	0.01	588.	0.74		235.7	47.3	0.97	46.1	2.54	4.5	1392.	SAND
6.20	-5.22	11.24	3.18	0.00	716.	1.09		276.7	47.0	1.00	45.8	5.37	9.3	1868.	SILTY SAND
6.40	-5.42	12.32	3.29	0.00	842.	1.34		238.7	45.7	1.03	44.4	7.96	13.3	2272.	SILTY SAND
6.60	-5.62	12.15	2.80	0.00	730.	1.38		203.3	44.6	1.05	43.3	8.68	14.0	1961.	SILTY SAND
6.80	-5.82	7.71	2.63	0.00	449.	0.88		149.1	44.1	1.08	42.8	3.70	5.8	1017.	SILTY SAND
7.00	-6.02	6.56	3.22	-0.00	483.	0.68		167.8	45.1	1.12	43.9	2.40	3.6	1030.	SILTY SAND
7.20	-6.22	5.65	4.03	0.00	536.	0.40		219.8	47.2	1.17	46.1	0.98	1.4	1073.	SAND
7.40	-6.42	9.96	2.91	0.00	701.	0.99		280.7	46.5	1.20	45.4	5.33	7.7	1750.	SILTY SAND
7.60	-6.62	10.23	3.11	0.00	789.	0.99		315.2	46.9	1.24	45.9	5.48	7.7	1990.	SILTY SAND
7.80	-6.82	12.36	2.30	0.01	727.	1.31		317.2	46.0	1.27	45.0	9.52	12.9	1963.	SILTY SAND
8.00	-7.02	8.73	2.85	0.01	655.	0.79		308.8	47.0	1.31	46.1	3.86	5.1	1559.	SILTY SAND
8.20	-7.22	9.36	2.47	0.01	622.	0.95		280.1	46.0	1.34	45.1	5.48	7.1	1519.	SILTY SAND
8.40	-7.42	10.24	2.38	0.01	674.	1.10		273.7	45.4	1.37	44.5	7.32	9.2	1700.	SILTY SAND
8.60	-7.62	7.04	3.05	0.00	609.	0.70		238.5	45.7	1.40	44.8	3.18	3.9	1337.	SILTY SAND
8.80	-7.82	8.04	2.57	0.00	601.	0.84		248.6	45.4	1.43	44.5	4.59	5.5	1385.	SILTY SAND
9.00	-8.02	7.09	2.92	0.00	616.	0.68		265.6	46.0	1.47	45.2	3.18	3.7	1355.	SILTY SAND
9.20	-8.22	7.93	3.01	0.01	724.	0.80		277.5	45.8	1.50	45.0	4.38	5.0	1664.	SILTY SAND
9.40	-8.42	7.37	2.94	0.00	673.	0.71		285.4	46.1	1.54	45.3	3.62	4.0	1503.	SILTY SAND
9.60	-8.62	7.30	2.89	0.00	669.	0.76		253.2	45.2	1.56	44.5	4.13	4.5	1489.	SILTY SAND
9.80	-8.82	7.75	2.49	0.01	625.	0.84		252.3	44.9	1.59	44.2	5.01	5.4	1419.	SILTY SAND
10.00	-9.02	7.99	2.38	0.01	628.	0.88		254.2	44.7	1.62	44.0	5.56	5.8	1443.	SILTY SAND
10.20	-9.22	7.83	2.31	0.01	610.	0.85		258.7	44.8	1.66	44.1	5.41	5.6	1390.	SILTY SAND
10.40	-9.42	6.95	2.71	0.01	647.	0.70		279.6	45.5	1.70	44.9	3.85	3.9	1408.	SILTY SAND
10.60	-9.62	10.09	2.36	0.01	838.	1.15		290.3	44.4	1.72	43.8	9.85	9.7	2102.	SILTY SAND
10.80	-9.82	9.74	2.23	0.01	780.	1.10		292.8	44.5	1.76	43.9	9.34	9.0	1930.	SILTY SAND
11.00	-10.02	6.03	2.76	0.01	609.	0.69		213.4	43.8	1.79	43.2	3.79	3.6	1251.	SILTY SAND
11.20	-10.22	4.52	3.07	0.04	517.	0.43		237.0	45.1	1.84	44.6	1.65	1.5	936.	SILTY SAND
11.40	-10.42	7.46	2.87	0.01	813.	0.77		317.2	45.4	1.88	44.9	5.04	4.6	1822.	SILTY SAND
11.60	-10.62	8.35	2.75	0.01	893.	0.89		327.6	45.1	1.91	44.7	6.85	6.1	2090.	SILTY SAND
11.80	-10.82	8.47	2.79	0.01	935.	0.90		348.2	45.3	1.95	44.9	7.04	6.2	2200.	SILTY SAND
12.00	-11.02	8.29	2.37	0.01	792.	0.90		323.3	44.9	1.98	44.4	7.23	6.2	1846.	SILTY SAND

CONTINUED ON NEXT PAGE

Table J.4 continued

DILATOMETER DATA LISTING & INTERPRETATION (BASED ON THE 1988 DILATOMETER MANUAL) SNDG. NO. FRZ005
University of Florida PAGE 4
JOB FILE: UF Pile Freeze FILE NO. : 866
LOCATION: Vilano East, Northwest of Pile, Facing Pile
SNDG.BY : P.Bullock/B.Grajales SNDG.DATE: 08/11/98
ANAL.BY : P.Bullock/T.Esin ANAL.DATE: 11/16/98

ANALYSIS PARAMETERS: LO RANGE = 9.75 BARS ROD DIAM. = 3.57 CM BL.THICK. = 15.0 MM SU FACTOR = 1.00
SURF.ELEV. = 0.98 M LO GAGE 0 = 0.00 BARS FR.RED.DIA. = 3.57 CM BL.WIDTH = 96.0 MM PHI FACTOR = 1.00
WATER DEPTH = 0.23 M HI GAGE 0 = 0.50 BARS LIN.ROD WT. = 6.50 KGF/M DELTA-A = 0.16 BARS OCR FACTOR = 1.00
SP.GR.WATER = 1.026 CAL GAGE 0 = 0.00 BARS DELTA/PHI = 0.50 DELTA-B = 0.14 BARS M FACTOR = 1.00
MAX SU ID = 0.60 SU OPTION = MARCHETTI MIN PHI ID = 1.20 OCR OPTION= MARCHETTI KO FACTOR = 1.00
UNIT CONVERSIONS: 1 BAR = 1.019 KGF/CM2 = 100 KPA = 1.044 TSF = 14.51 PSI 1 M = 3.2808 FT

Z (M)	ELEV (M)	KD	ID	UD	ED (BAR)	KO	SU (BAR)	QD (BAR)	PHI (DEG)	SIGFF (BAR)	PHIO (DEG)	PC (BAR)	OCR	M (BAR)	SOIL TYPE
12.20	-11.22	9.95	2.25	0.00	920.	1.14		332.0	44.3	2.01	43.9	11.30	9.5	2296.	SILTY SAND

END OF SOUNDING

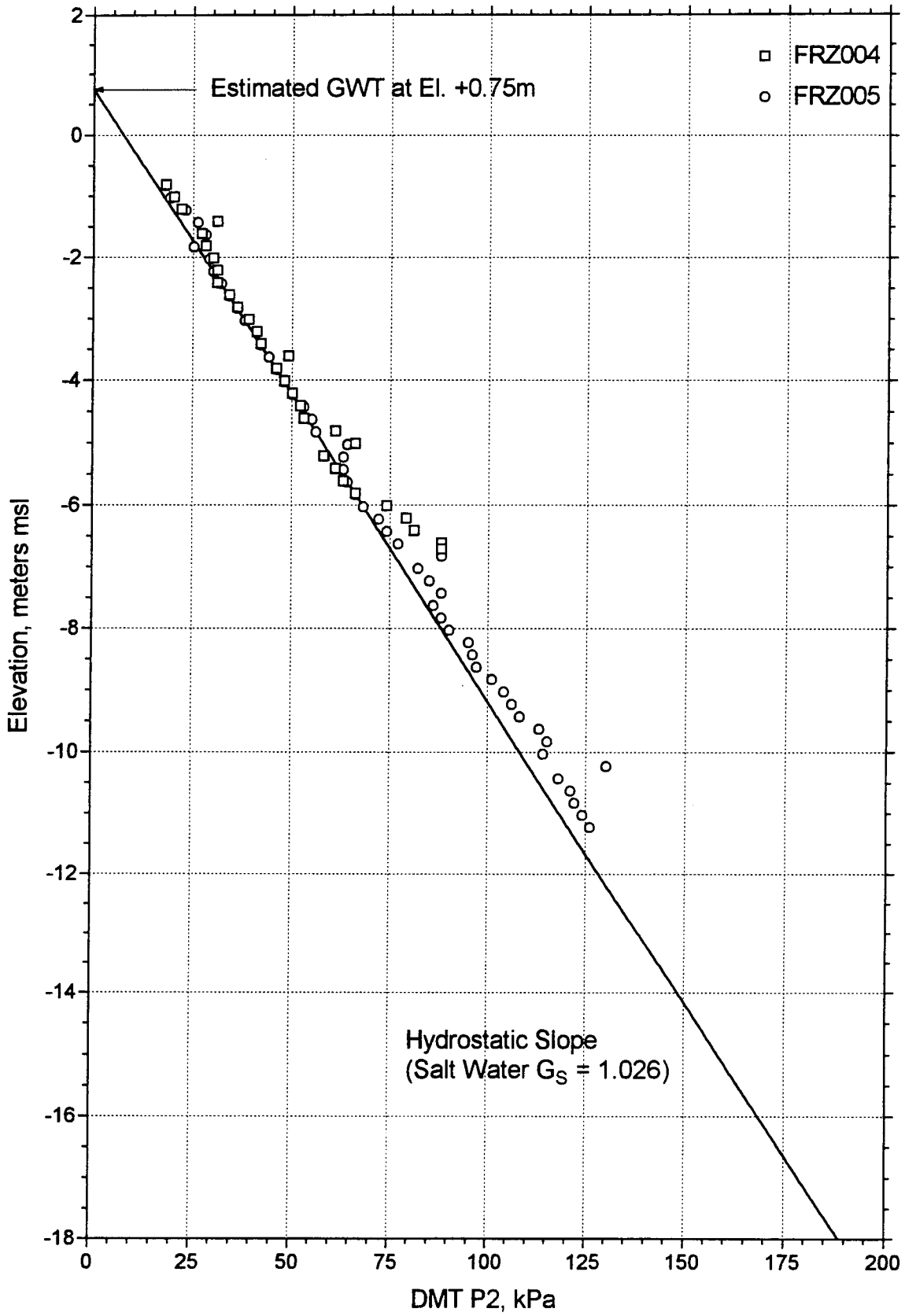


Figure J.7 DMT P2 Profile at Vilano East ($I_D \geq 2.0$)

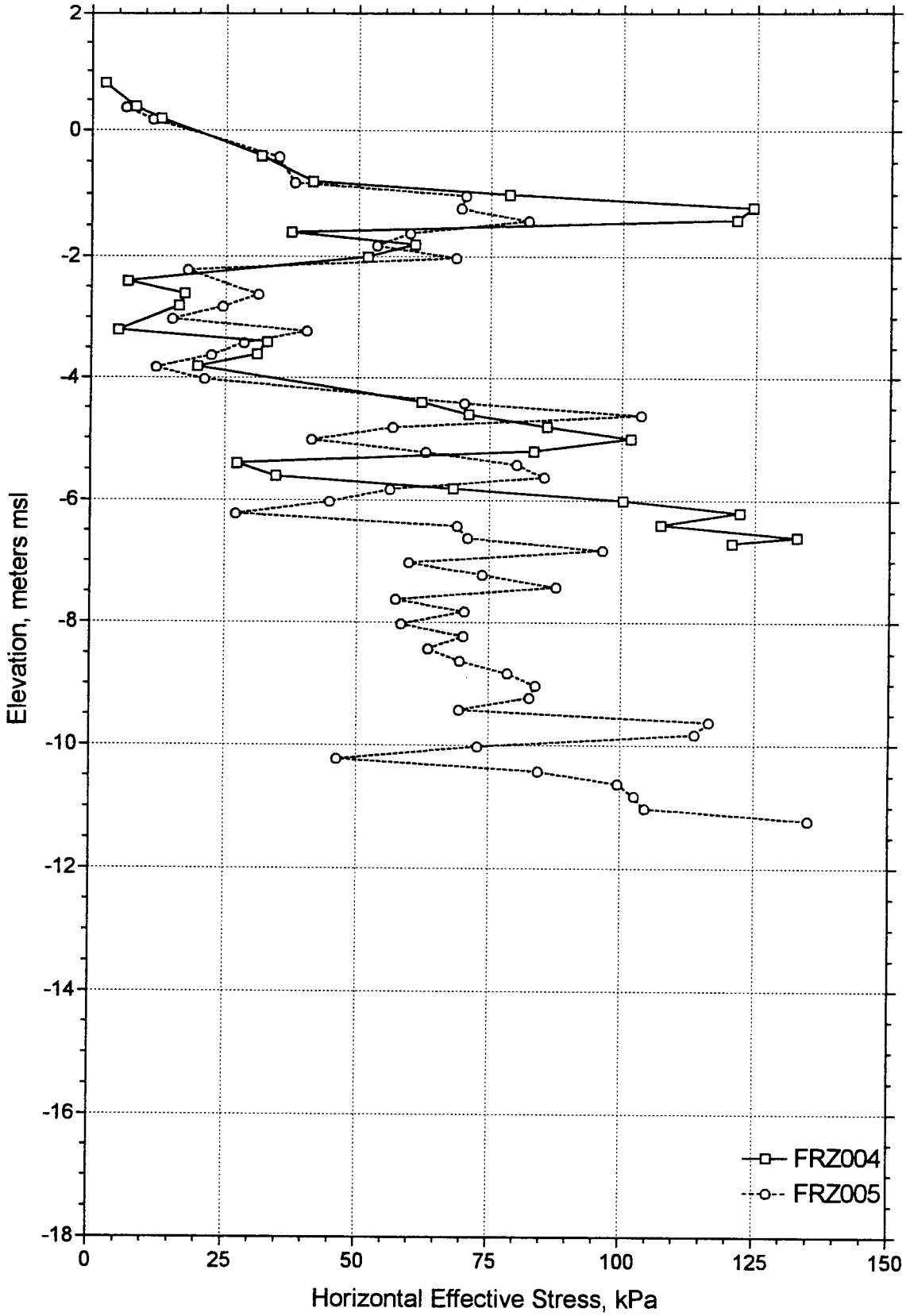


Figure J.8 Horizontal Effective Stress Profile at Vilano East

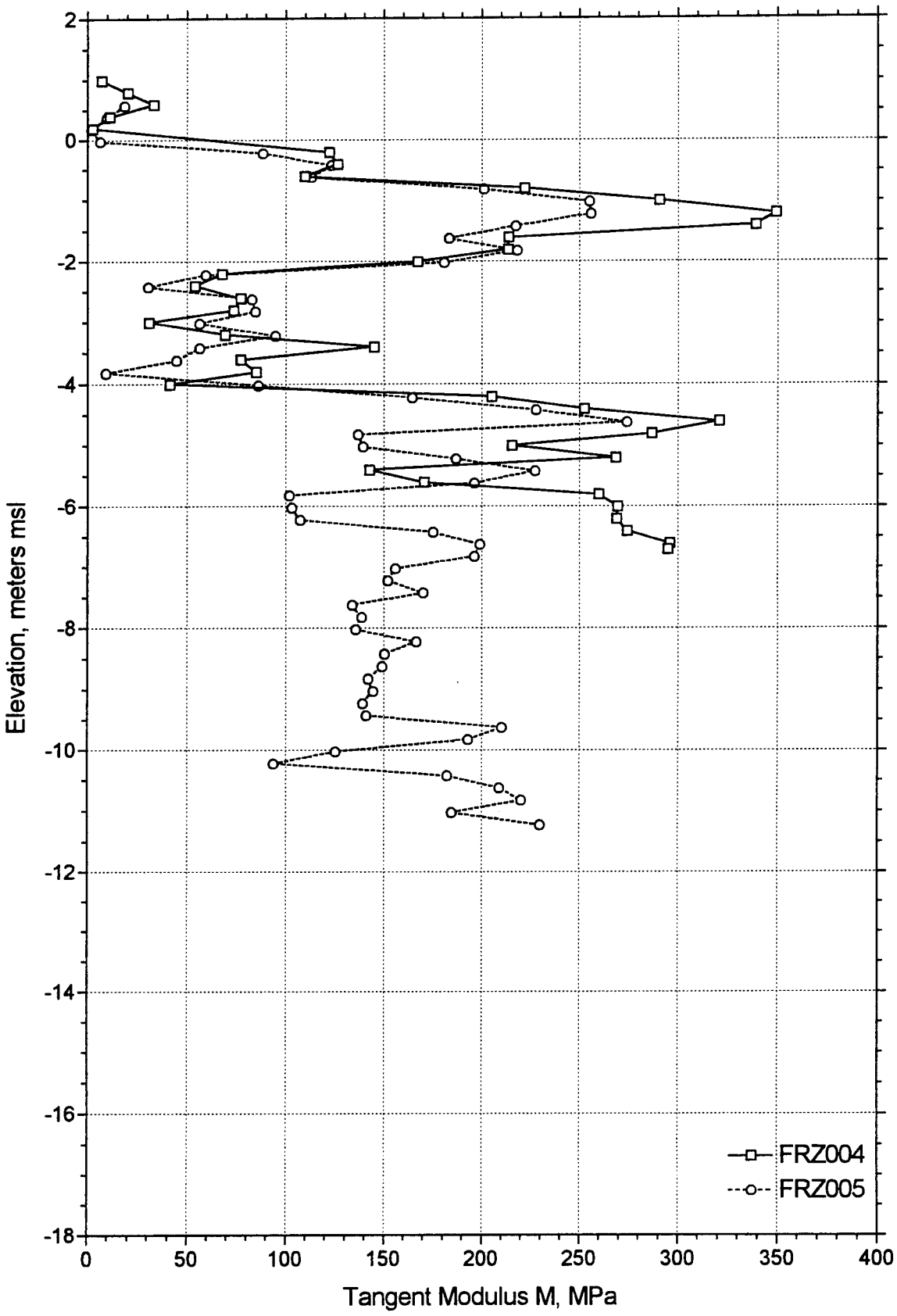


Figure J.9 Tangent Modulus Profile at Vilano East

Table J.5 DMT A-Dissipation Data at VLE

FRZ004: DMT A-Dissipation, El. -1.30 m (2.50 m depth)
68.77 kN Initial Thrust
52.46 kN Final Thrust
0.76 Final/Initial

Elapsed Time hh:mm:ss	(ET) min	sqrt(ET) min	A Rdg bars	Gage Zero bars	DA bars	A' kPa
00:00:42	0.70	0.84	7.620	0.020	0.170	760.4
00:01:30	1.50	1.22	7.120	0.020	0.170	712.2
00:02:36	2.60	1.61	6.940	0.020	0.170	694.8
00:04:19	4.32	2.08	6.880	0.020	0.170	689.1
00:08:39	8.65	2.94	6.815	0.020	0.170	682.8
00:15:18	15.30	3.91	6.770	0.020	0.170	678.4
00:30:44	30.73	5.54	6.740	0.020	0.170	675.5
01:00:18	60.30	7.77	6.700	0.020	0.170	671.7
02:01:47	121.78	11.04	6.630	0.020	0.170	664.9
04:01:37	241.62	15.54	6.510	0.020	0.170	653.4
15:11:00	911.00	30.18	6.470	0.020	0.170	649.5

DA and A' values corrected for Gage Zero & Calibration

FRZ004: DMT A-Dissipation, El. -2.90 m (4.10 m depth)
20.66 kN Initial Thrust
18.05 kN Final Thrust
0.87 Final/Initial

Elapsed Time hh:mm:ss	(ET) min	sqrt(ET) min	A Rdg bars	Gage Zero bars	DA bars	A' kPa
00:01:02	1.03	1.02	2.930	0.020	0.180	306.9
00:02:01	2.02	1.42	2.750	0.020	0.180	289.3
00:03:15	3.25	1.80	2.560	0.020	0.180	270.7
00:04:17	4.28	2.07	2.430	0.020	0.180	258.0
00:08:25	8.42	2.90	2.350	0.020	0.180	250.1
00:16:50	16.83	4.10	2.250	0.020	0.180	240.3
00:30:20	30.33	5.51	2.150	0.020	0.180	230.5
01:00:12	60.20	7.76	2.130	0.020	0.180	228.5
01:58:35	118.58	10.89	2.090	0.020	0.180	224.6

DA and A' values corrected for Gage Zero & Calibration

FRZ004: DMT A-Dissipation, El. -3.90 m (5.10 m depth)
27.98 kN Initial Thrust
23.24 kN Final Thrust
0.83 Final/Initial

Elapsed Time hh:mm:ss	(ET) min	sqrt(ET) min	A Rdg bars	Gage Zero bars	DA bars	A' kPa
00:00:56	0.93	0.97	3.340	0.020	0.180	346.9
00:01:46	1.77	1.33	2.960	0.020	0.180	309.8
00:03:08	3.13	1.77	2.570	0.020	0.180	271.7
00:04:22	4.37	2.09	2.260	0.020	0.180	241.3
00:08:20	8.33	2.89	2.090	0.020	0.180	224.6
00:15:35	15.58	3.95	1.890	0.020	0.180	204.9
00:32:15	32.25	5.68	1.790	0.020	0.180	195.1
01:00:39	60.65	7.79	1.775	0.020	0.180	193.6
01:59:19	119.32	10.92	1.700	0.020	0.180	186.2

DA and A' values corrected for Gage Zero & Calibration

Table J.5 continued

FRZ004: DMT A-Dissipation, El. -4.90 m (6.10 m depth)

89.35 kN Initial Thrust
69.25 kN Final Thrust
0.78 Final/Initial

Elapsed Time hh:mm:ss	(ET) min	sqrt(ET) min	A Rdg bars	Gage Zero bars	DA bars	A' kPa
00:01:29	1.48	1.22	14.350	0.200	0.180	1388.7
00:03:22	3.37	1.83	14.250	0.200	0.180	1379.2
00:04:54	4.90	2.21	14.200	0.200	0.180	1374.4
00:08:59	8.98	3.00	14.150	0.200	0.180	1369.7
00:30:44	30.73	5.54	14.200	0.200	0.180	1374.4
01:02:19	62.32	7.89	14.000	0.200	0.180	1355.4
02:01:40	121.67	11.03	14.020	0.200	0.180	1357.3

DA and A' values corrected for Gage Zero & Calibration

FRZ004: DMT A-Dissipation, El. -6.30 m (7.50 m depth)

81.43 kN Initial Thrust
65.56 kN Final Thrust
0.81 Final/Initial

Elapsed Time hh:mm:ss	(ET) min	sqrt(ET) min	A Rdg bars	Gage Zero bars	DA bars	A' kPa
00:00:35	0.58	0.76	12.100	0.500	0.180	1145.2
00:02:01	2.02	1.42	11.850	0.500	0.180	1121.3
00:03:20	3.33	1.83	11.720	0.500	0.180	1108.8
00:04:22	4.37	2.09	11.650	0.500	0.180	1102.1
00:09:02	9.03	3.01	11.600	0.500	0.180	1097.3
00:15:58	15.97	4.00	11.550	0.500	0.180	1092.6
00:32:55	32.92	5.74	11.550	0.500	0.180	1092.6
01:01:09	61.15	7.82	11.520	0.500	0.180	1089.7
02:01:15	121.25	11.01	11.450	0.500	0.180	1083.0

DA and A' values corrected for Gage Zero & Calibration

Table J.5 continued

FRZ005: DMT A-Dissipation, El. -0.92 m (1.90 m depth)
56.10 kN Initial Thrust
43.85 kN Final Thrust
0.78 Final/Initial

Elapsed Time hh:mm:ss	(ET) min	sqrt(ET) min	A Rdg bars	Gage Zero bars	DA bars	A' kPa
00:01:18	1.30	1.14	8.720	0.025	0.160	864.7
00:02:37	2.62	1.62	8.520	0.025	0.160	845.5
00:03:39	3.65	1.91	8.270	0.025	0.160	821.4
00:04:58	4.97	2.23	8.130	0.025	0.160	808.0
00:09:15	9.25	3.04	8.060	0.025	0.160	801.2
00:16:38	16.63	4.08	8.000	0.025	0.160	795.5
00:31:12	31.20	5.59	7.950	0.025	0.160	790.7
01:00:23	60.38	7.77	7.940	0.025	0.160	789.7
02:00:14	120.23	10.97	7.935	0.025	0.160	789.2

DA and A' values corrected for Gage Zero & Calibration

FRZ005: DMT A-Dissipation, El. -2.92 m (3.90 m depth)
19.56 kN Initial Thrust
16.99 kN Final Thrust
0.87 Final/Initial

Elapsed Time hh:mm:ss	(ET) min	sqrt(ET) min	A Rdg bars	Gage Zero bars	DA bars	A' kPa
00:00:43	0.72	0.85	3.230	0.025	0.160	333.7
00:02:04	2.07	1.44	3.020	0.025	0.160	313.2
00:03:12	3.20	1.79	2.680	0.025	0.160	280.0
00:04:27	4.45	2.11	2.420	0.025	0.160	254.5
00:08:16	8.27	2.88	2.330	0.025	0.160	245.7
00:15:32	15.53	3.94	2.210	0.025	0.160	233.9
00:29:44	29.73	5.45	2.110	0.025	0.160	224.1
01:00:58	60.97	7.81	2.025	0.025	0.160	215.7
02:01:01	121.02	11.00	1.950	0.025	0.160	208.3
03:34:39	214.65	14.65	1.900	0.025	0.160	203.4
13:15:45	795.75	28.21	1.960	0.025	0.160	209.3

DA and A' values corrected for Gage Zero & Calibration

FRZ005: DMT A-Dissipation, El. -3.92 m (4.90 m depth)
16.20 kN Initial Thrust
15.29 kN Final Thrust
0.94 Final/Initial

Elapsed Time hh:mm:ss	(ET) min	sqrt(ET) min	A Rdg bars	Gage Zero bars	DA bars	A' kPa
00:00:27	0.45	0.67	1.060	0.025	0.160	120.4
00:01:16	1.27	1.13	0.890	0.025	0.160	103.5
00:02:15	2.25	1.50	0.855	0.025	0.160	100.0
00:03:21	3.35	1.83	0.825	0.025	0.160	97.0
00:04:38	4.63	2.15	0.800	0.025	0.160	94.5
00:08:18	8.30	2.88	0.800	0.025	0.160	94.5
00:16:36	16.60	4.07	0.805	0.025	0.160	95.0
00:31:54	31.90	5.65	0.830	0.025	0.160	97.5
01:01:52	61.87	7.87	0.855	0.025	0.160	100.0
02:01:14	121.23	11.01	0.875	0.025	0.160	102.0

DA and A' values corrected for Gage Zero & Calibration

Table J.5 continued

FRZ005: DMT A-Dissipation, El. -4.92 m (5.90 m depth)

49.18 kN Initial Thrust
39.86 kN Final Thrust
0.81 Final/Initial

Elapsed Time (ET) hh:mm:ss	min	sqrt(ET) min	A Rdg bars	Gage Zero bars	DA bars	A' kPa
00:01:12	1.20	1.10	7.760	0.025	0.160	772.4
00:02:45	2.75	1.66	7.620	0.025	0.160	758.9
00:03:50	3.83	1.96	7.500	0.025	0.160	747.3
00:05:05	5.08	2.25	7.410	0.025	0.160	738.7
00:08:01	8.02	2.83	7.300	0.025	0.160	728.1
00:17:04	17.07	4.13	7.270	0.025	0.160	725.2
00:32:34	32.57	5.71	7.200	0.025	0.160	718.4
00:59:41	59.68	7.73	7.175	0.025	0.160	716.0
02:19:50	139.83	11.83	7.165	0.025	0.160	715.0

DA and A' values corrected for Gage Zero & Calibration

FRZ005: DMT A-Dissipation, El. -6.12 m (7.10 m depth)

44.65 kN Initial Thrust
27.39 kN Final Thrust
0.61 Final/Initial

Elapsed Time (ET) hh:mm:ss	min	sqrt(ET) min	A Rdg bars	Gage Zero bars	DA bars	A' kPa
00:00:50	0.83	0.91	7.080	0.025	0.160	706.9
00:02:04	2.07	1.44	6.850	0.025	0.160	684.7
00:03:16	3.27	1.81	6.570	0.025	0.160	657.7
00:04:44	4.73	2.18	6.300	0.025	0.160	631.6
00:08:29	8.48	2.91	6.155	0.025	0.160	617.6
00:15:51	15.85	3.98	6.010	0.025	0.160	603.6
00:31:56	31.93	5.65	5.870	0.025	0.160	590.0
01:00:24	60.40	7.77	5.730	0.025	0.160	576.5
01:59:50	119.83	10.95	5.600	0.025	0.160	563.9
03:54:55	234.92	15.33	5.505	0.025	0.160	554.7
07:22:27	442.45	21.03	5.310	0.025	0.160	535.9
18:04:21	1084.35	32.93	5.130	0.025	0.160	518.4

DA and A' values corrected for Gage Zero & Calibration

DMT A-Dissipation, FRZ005 at El. -7.52 m (8.50 m depth)

57.11 kN Initial Thrust
39.17 kN Final Thrust
0.69 Final/Initial

Elapsed Time (ET) hh:mm:ss	min	sqrt(ET) min	A Rdg bars	Gage Zero bars	DA bars	A' kPa
00:00:50	0.83	0.91	8.460	0.025	0.160	839.7
00:02:34	2.57	1.60	8.230	0.025	0.160	817.6
00:03:52	3.87	1.97	8.115	0.025	0.160	806.5
00:05:03	5.05	2.25	8.030	0.025	0.160	798.3
00:08:48	8.80	2.97	8.050	0.025	0.160	800.3
00:19:17	19.28	4.39	8.070	0.025	0.160	802.2
00:30:15	30.25	5.50	8.010	0.025	0.160	796.4
00:59:52	59.87	7.74	7.990	0.025	0.160	794.5
02:15:20	135.33	11.63	7.960	0.025	0.160	791.6

DA and A' values corrected for Gage Zero & Calibration

Table J.5 continued

FRZ005: DMT A-Dissipation, El. -8.52 m (9.50 m depth)

60.30 kN Initial Thrust
43.23 kN Final Thrust
0.72 Final/Initial

Elapsed Time (ET) hh:mm:ss	ET min	sqrt(ET) min	A Rdg bars	Gage Zero bars	DA bars	A' kPa
00:01:16	1.27	1.13	10.350	0.500	0.160	1001.0
00:02:25	2.42	1.55	10.230	0.500	0.160	989.0
00:04:01	4.02	2.00	10.000	0.500	0.160	966.0
00:07:00	7.00	2.65	9.710	0.025	0.160	959.7
00:16:17	16.28	4.04	9.715	0.025	0.160	960.2
00:31:27	31.45	5.61	9.690	0.025	0.160	957.8
01:03:41	63.68	7.98	9.595	0.025	0.160	948.7
02:03:08	123.13	11.10	9.545	0.025	0.160	943.9
04:02:28	242.47	15.57	9.540	0.025	0.160	943.4

DA and A' values corrected for Gage Zero & Calibration

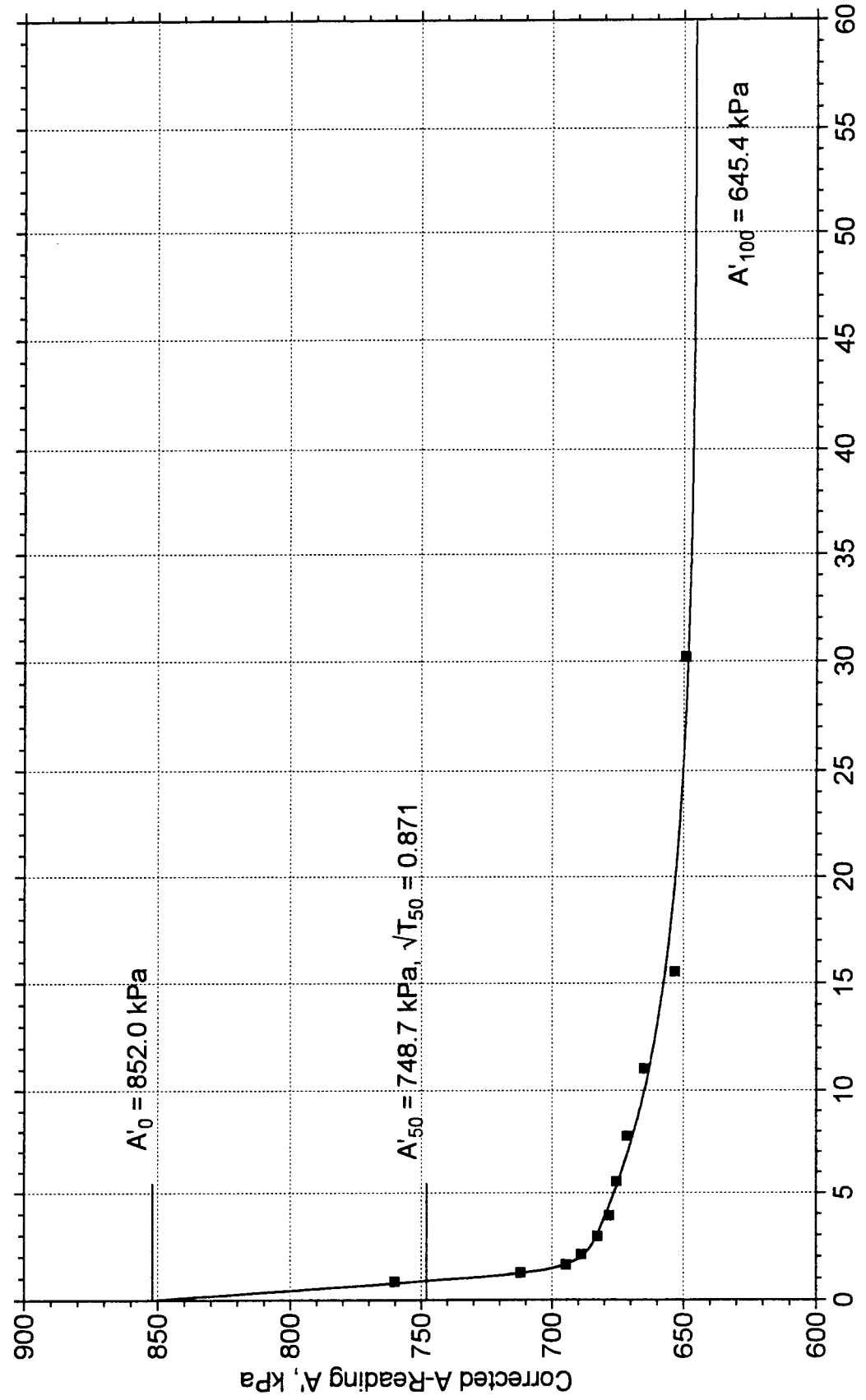


Figure J.10 DMT A-Dissipation: FRZ004, El. -1.30 m

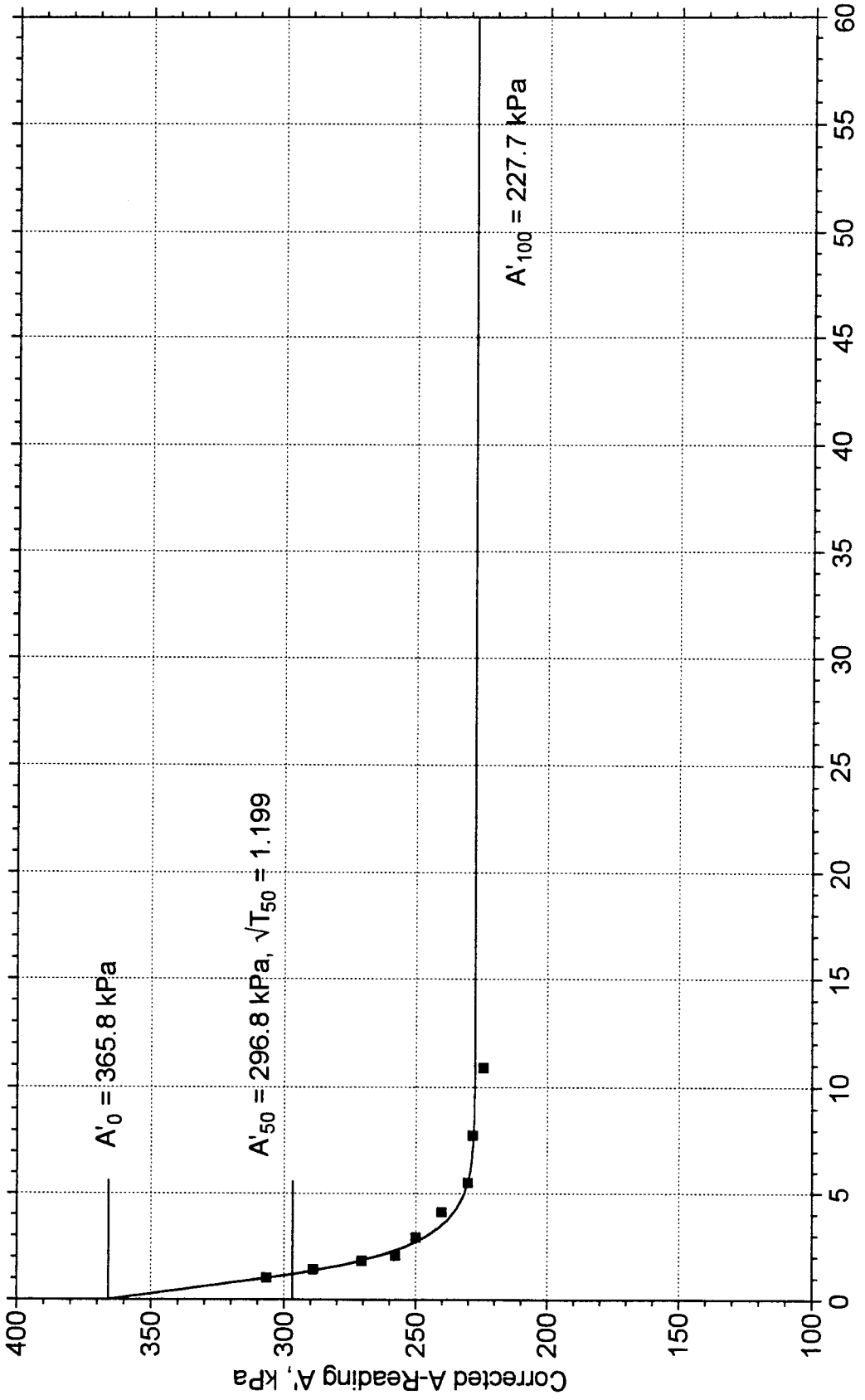
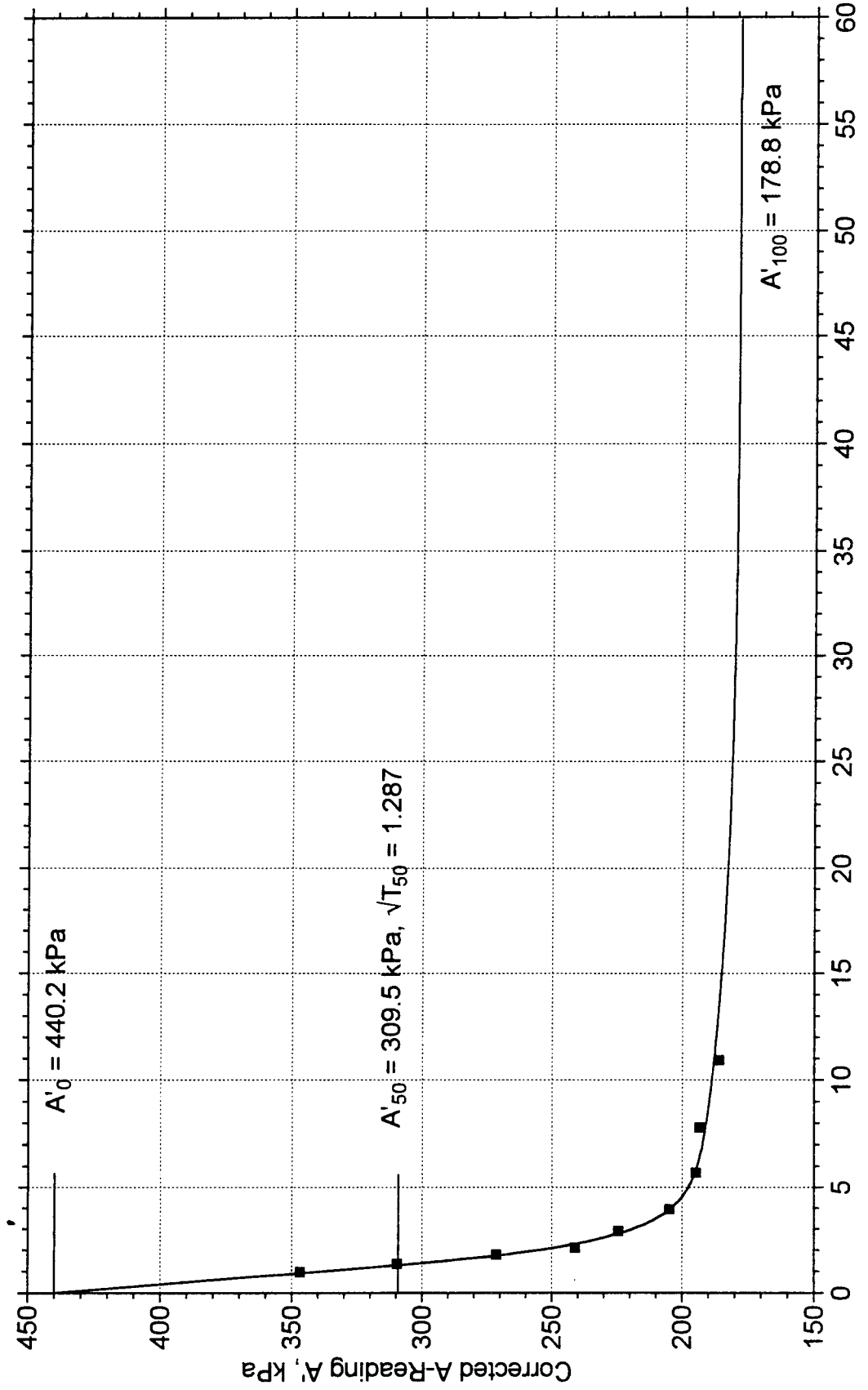


Figure J.11 DMT A-Dissipation: FRZ004, El. -2.90 m



Eigure J.12 DMT A-Dissipation: FRZ004, El. -3.90 m

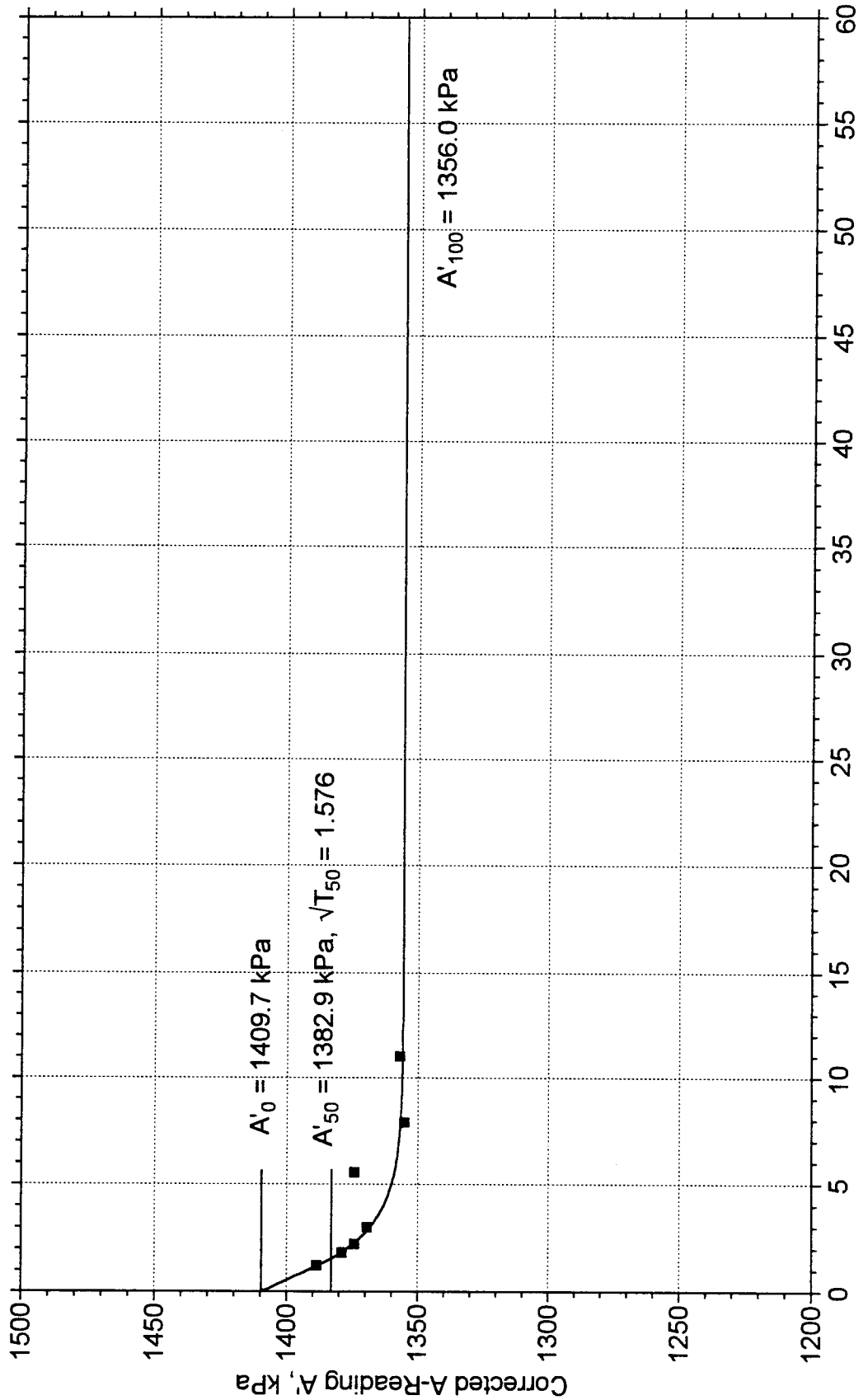


Figure J.13 DMT A-Dissipation: FRZ004, El. -4.90 m

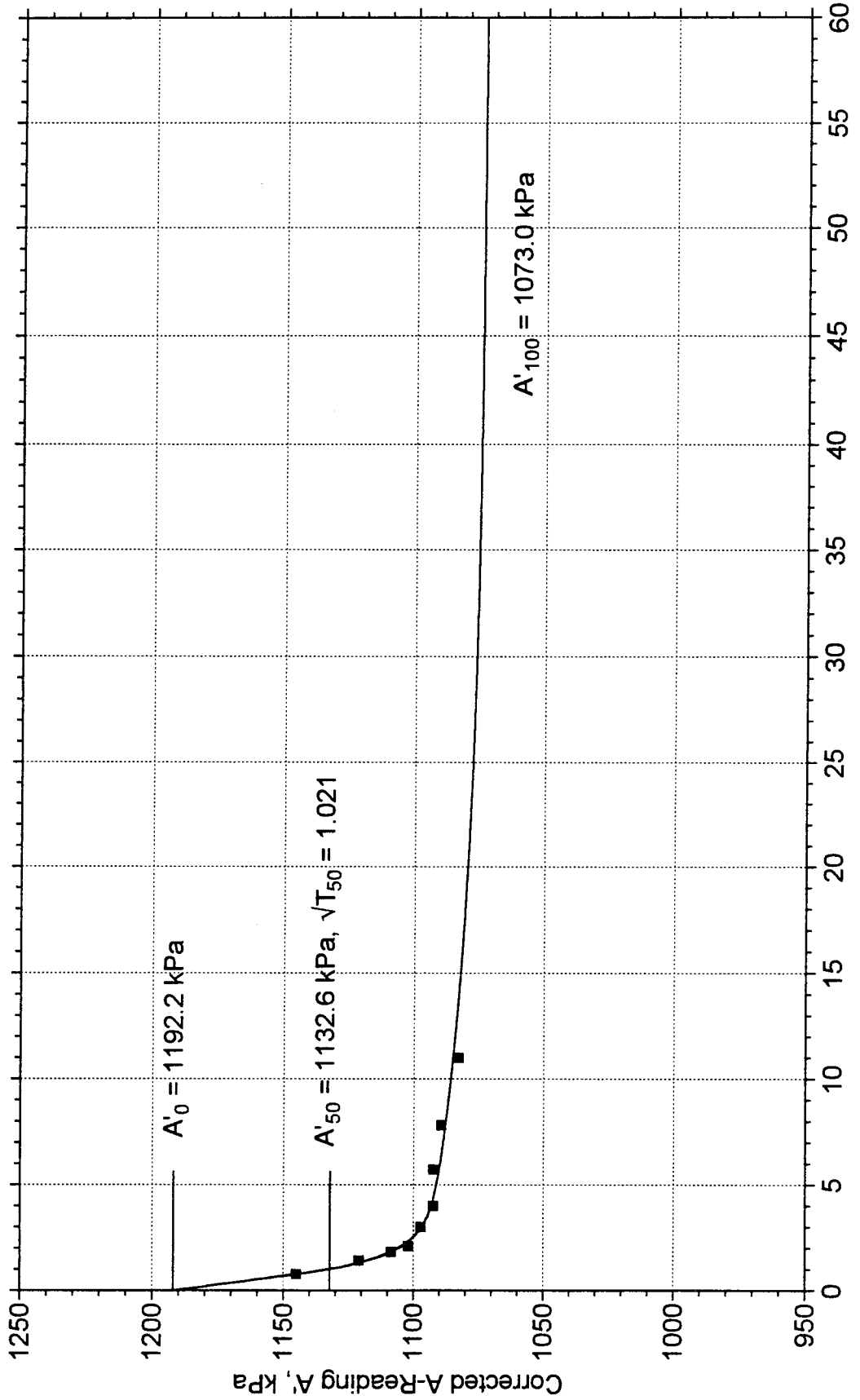


Figure J.14 DMT A-Dissipation: FRZ004, El. -6.30 m

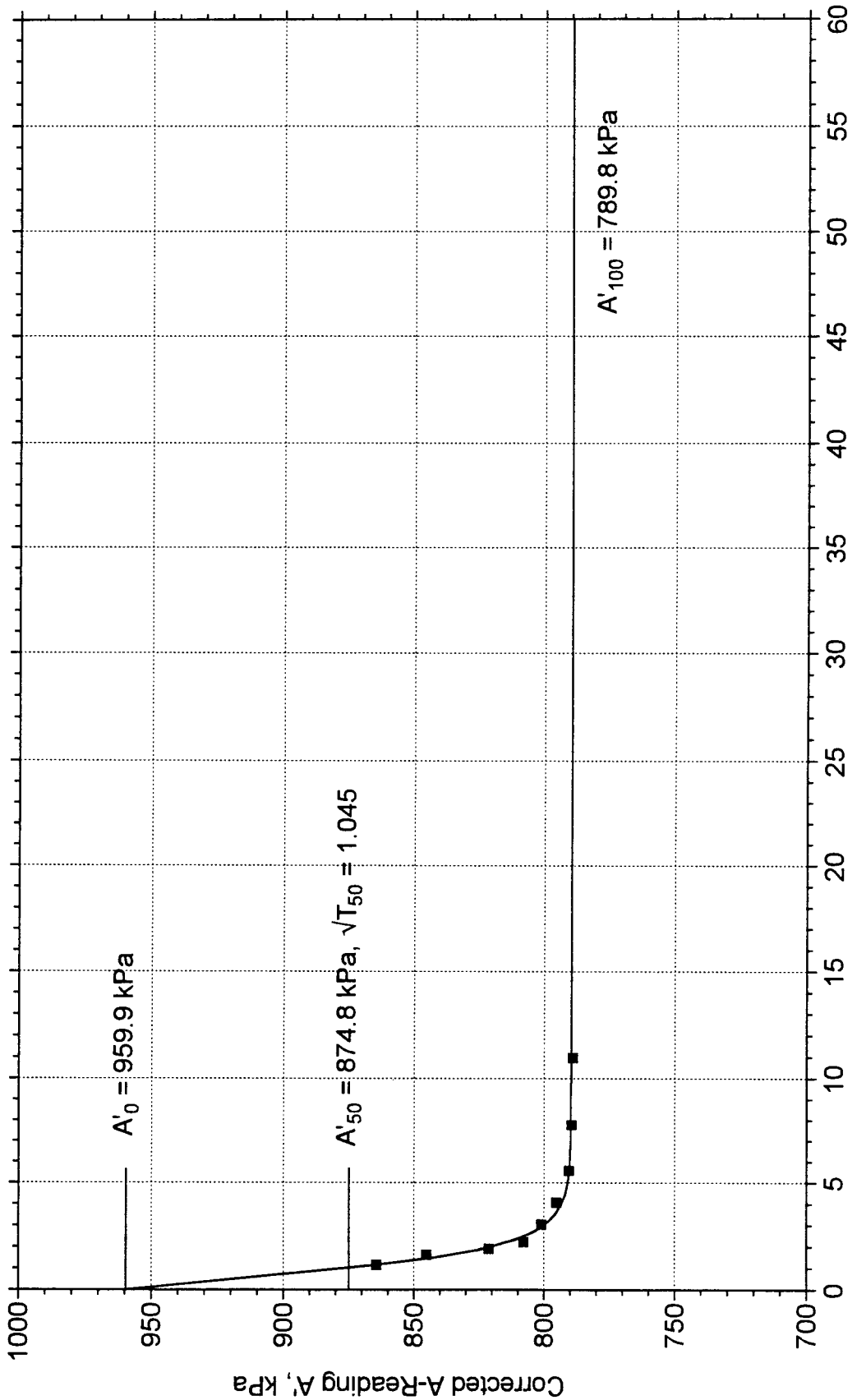


Figure J.15 DMT A-Dissipation: FRZ005, El. -0.92 m

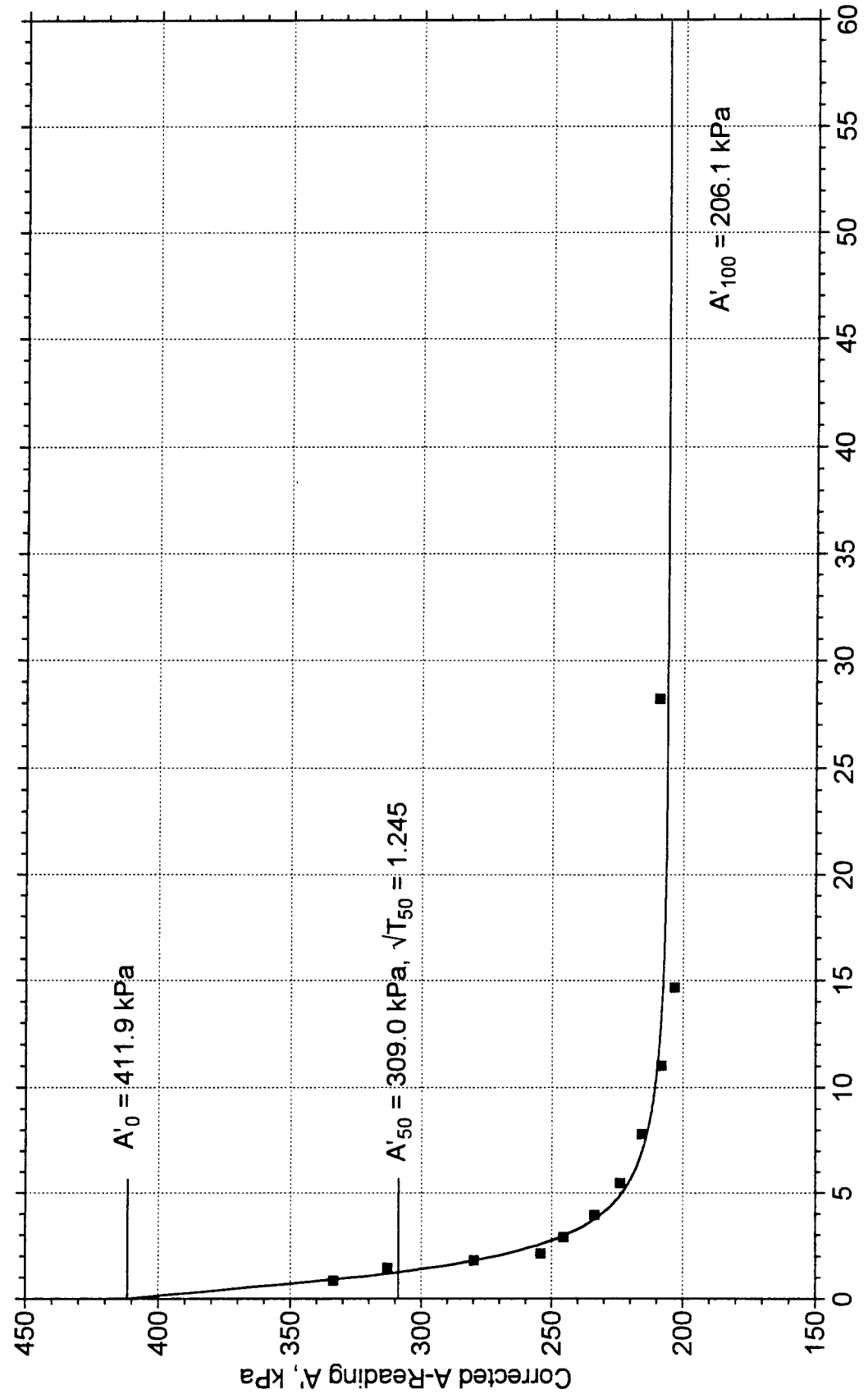


Figure J.16 DMT A-Dissipation: FRZ005, El. -2.92 m

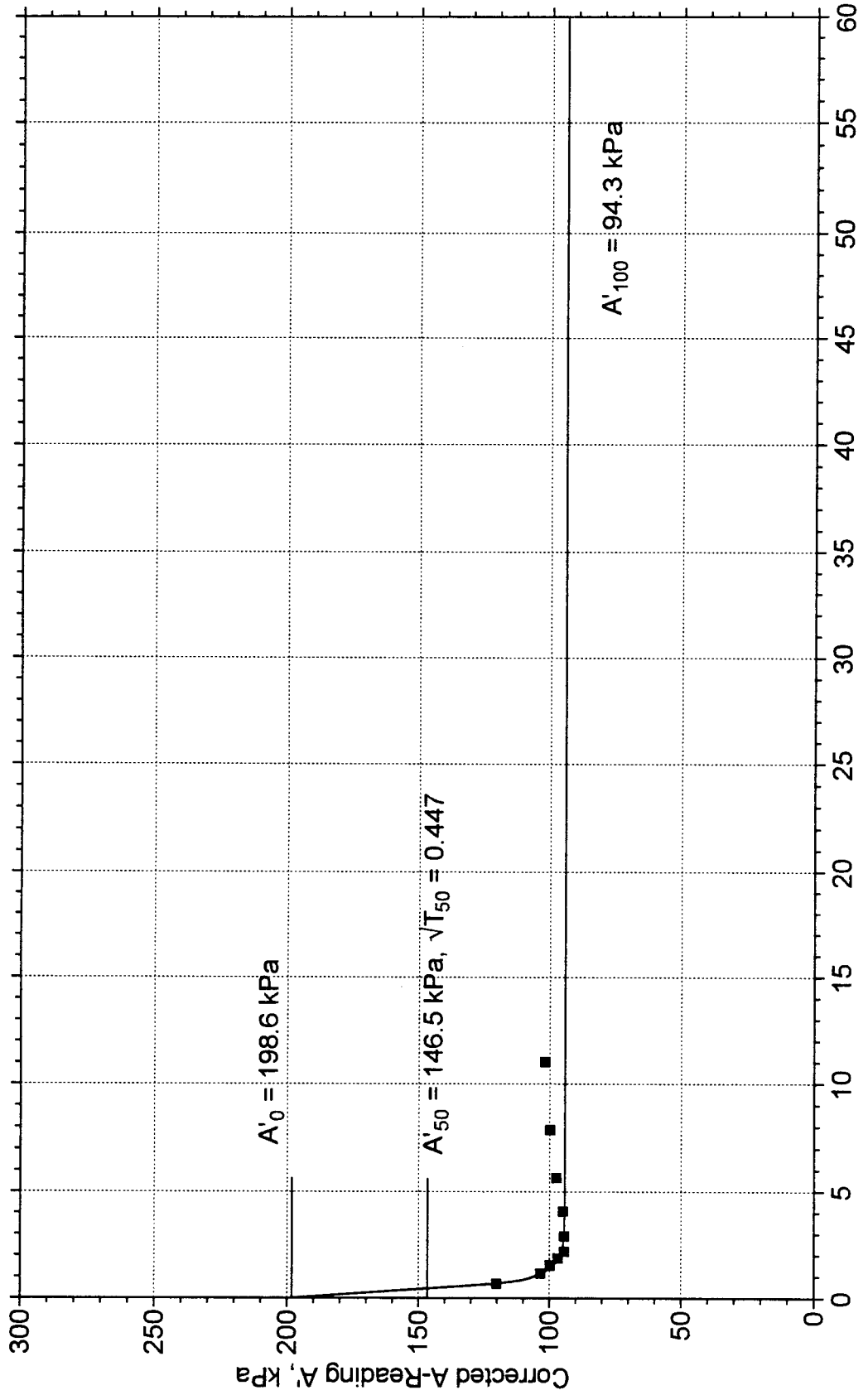


Figure J.17 DMT A-Dissipation: FRZ005, El. -3.92 m

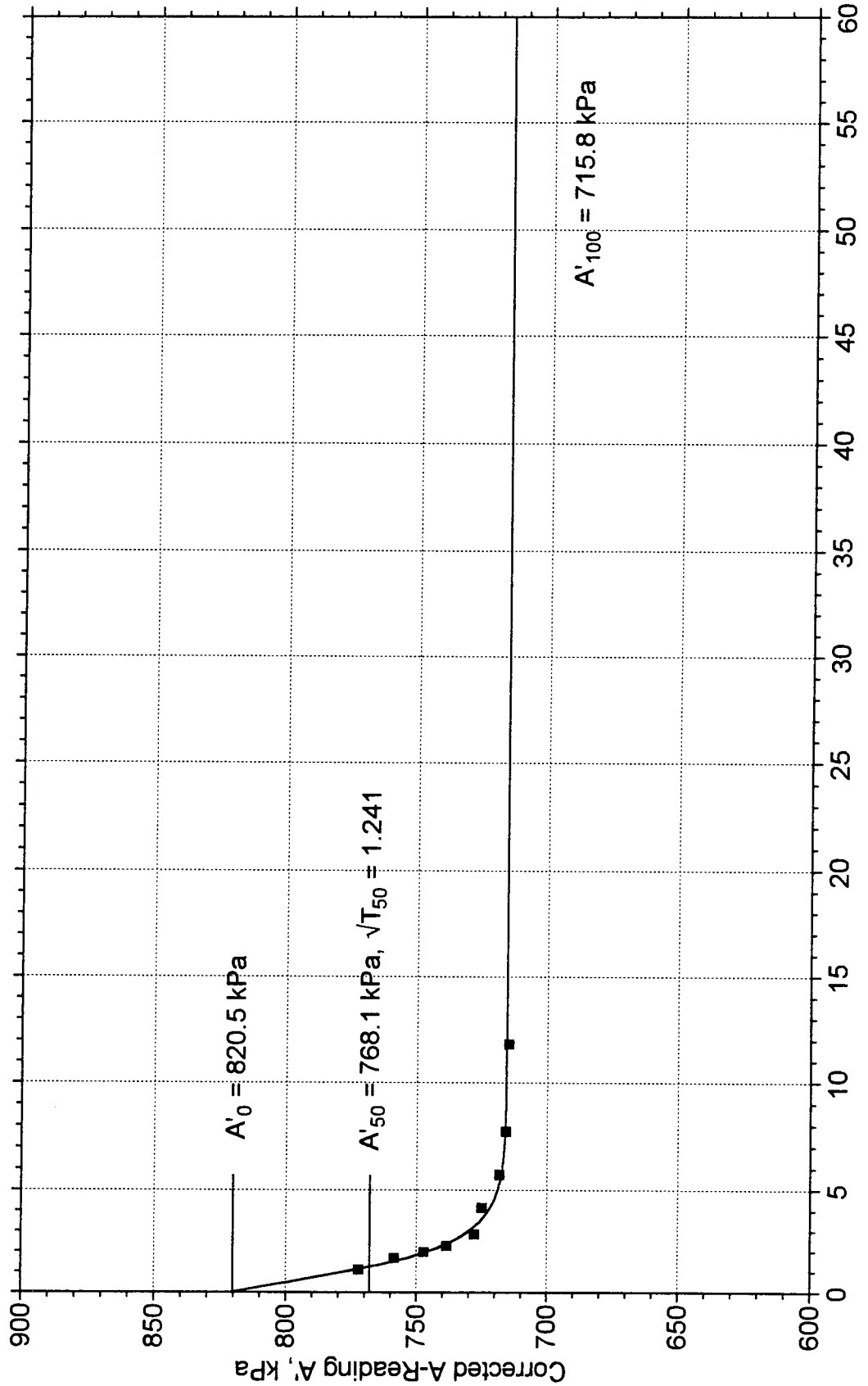


Figure J.18 DMT A-Dissipation: FRZ005, El. -4.92 m

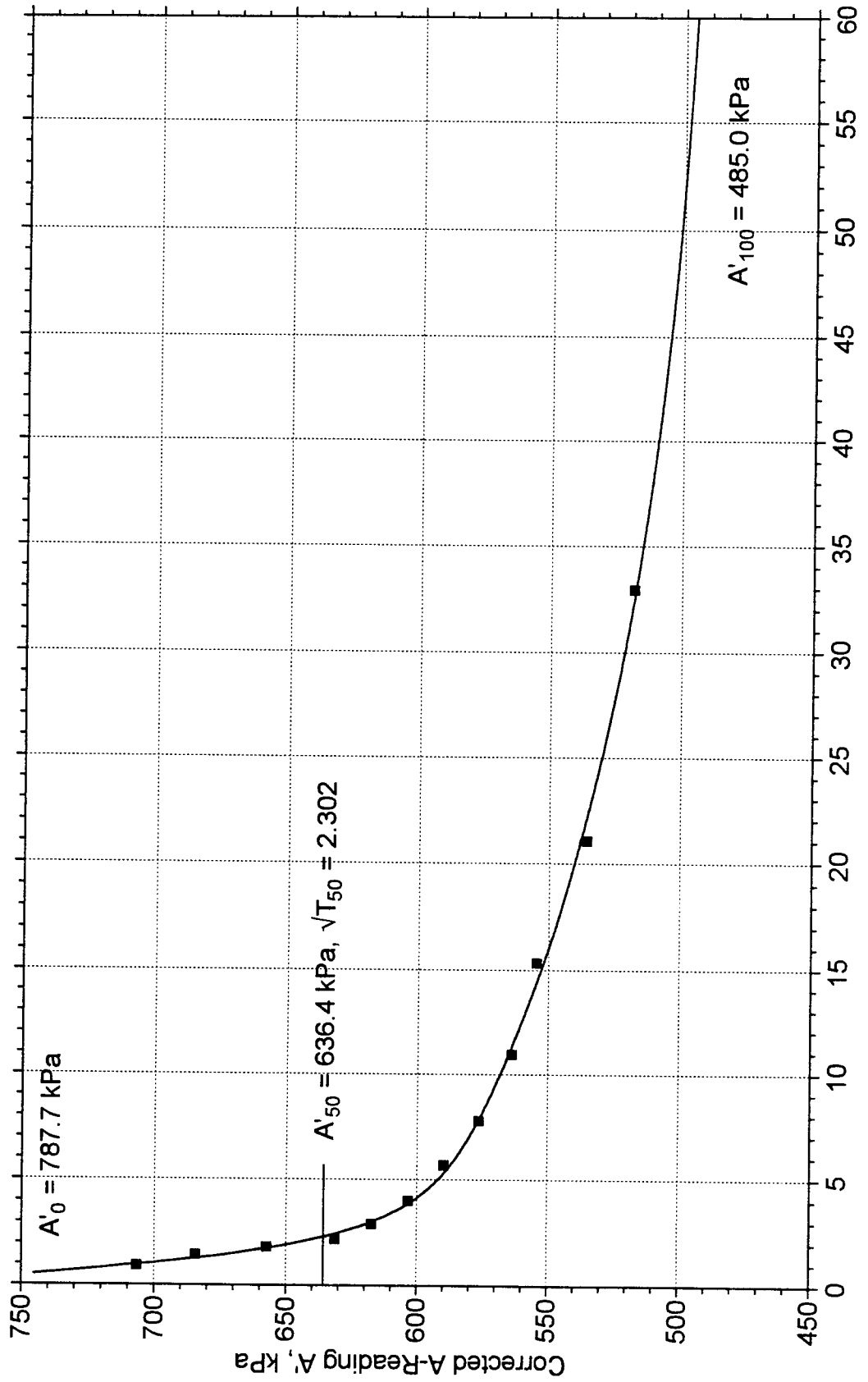


Figure J.19 DMT A-Dissipation: FRZ005, El. -6.12 m

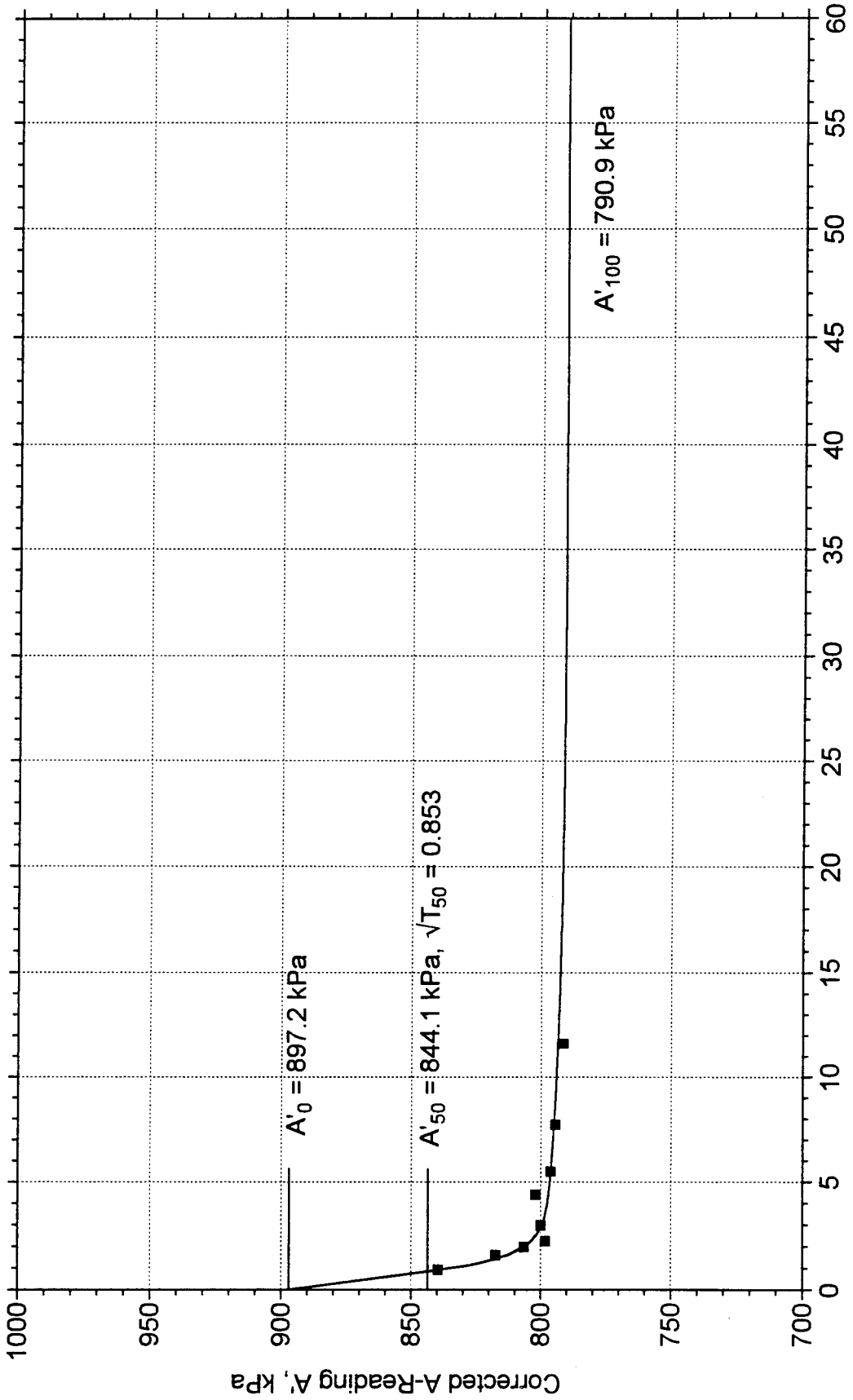
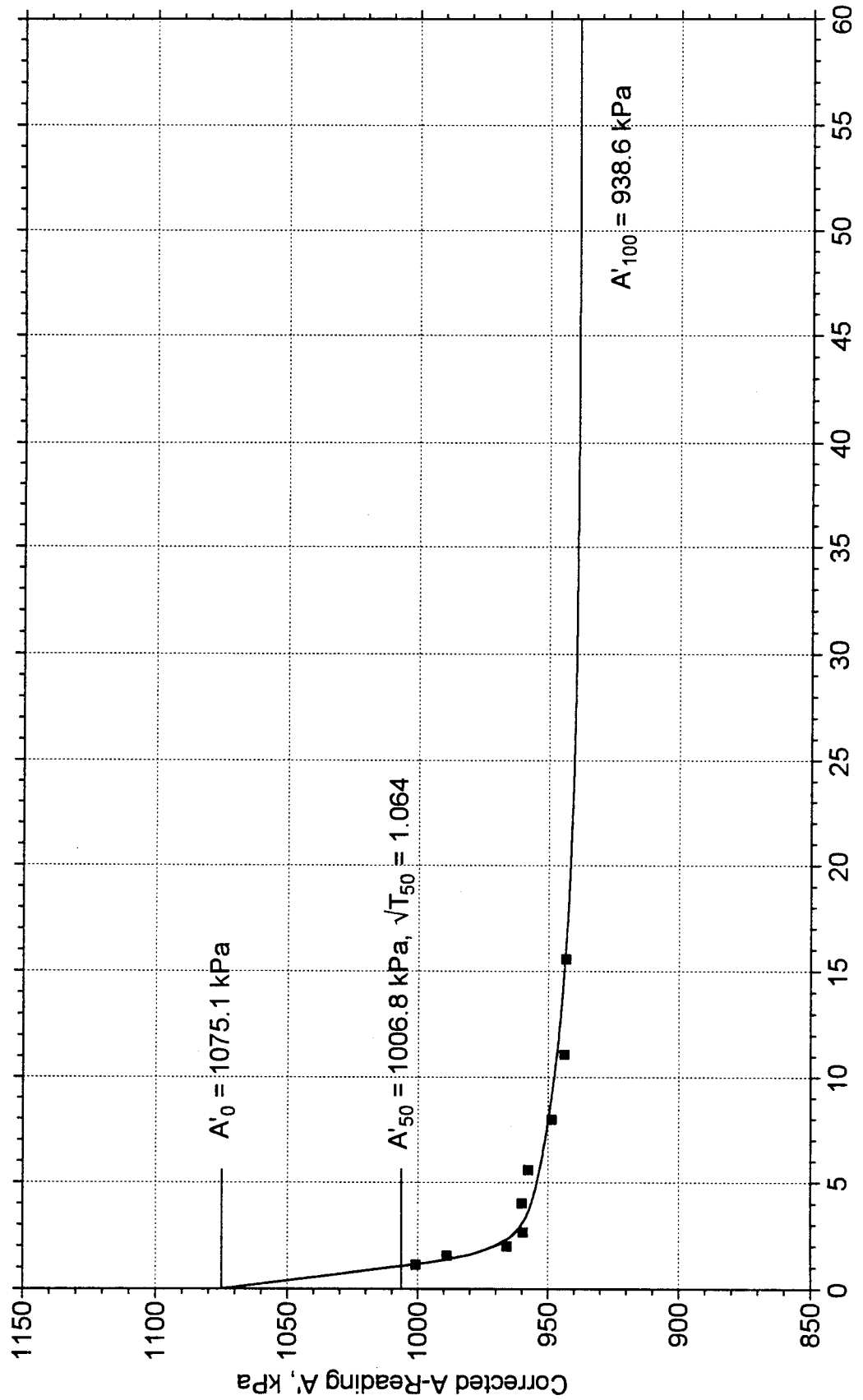


Figure J.20 DMT A-Dissipation: FRZ005, El. -7.52 m



Eigure J.21 DMT A-Dissipation: FRZ005, El. -8.52 m

Table J.6 DMT Sounding FRZ006 at VLW

DILATOMETER DATA LISTING & INTERPRETATION (BASED ON THE 1988 DILATOMETER MANUAL)
University of Florida
JOB FILE: UF Pile Freeze
LOCATION: Vilano West, SE of Pile
SNDG.BY : P.Bullock/B.Grajales
ANAL.BY : P.Bullock/T.Esin

SNDG. NO. FRZ006
PAGE 1
FILE NO. : 866

SNDG.DATE: 08/14/98
ANAL.DATE: 11/16/98

ANALYSIS PARAMETERS:
SURF.ELEV. = 0.94 M
WATER DEPTH = 0.44 M
SP.GR.WATER = 1.026
MAX SU ID = 0.60
UNIT CONVERSIONS:

LO RANGE = 9.80 BARS
LO GAGE 0 = 0.00 BARS
HI GAGE 0 = 0.50 BARS
CAL GAGE 0 = 0.00 BARS
SU OPTION = MARCHETTI
1 BAR = 1.019 KGF/CM2 = 100 KPA = 1.044 TSF = 14.51 PSI

ROD DIAM. = 3.57 CM
FR.RED.DIA. = 3.57 CM
LIN.ROD WT. = 6.50 KGF/M
DELTA/PHI = 0.50
MIN PHI ID = 1.20

BL.THICK. = 15.0 MM
BL.WIDTH = 96.0 MM
DELTA-A = 0.14 BARS
DELTA-B = 0.47 BARS
OCR OPTION= MARCHETTI

SU FACTOR = 1.00
PHI FACTOR = 1.00
OCR FACTOR = 1.00
M FACTOR = 1.00
KO FACTOR = 1.00

1 M = 3.2808 FT

Z (M)	ELEV (M)	THRUST (KGF)	A (BAR)	B (BAR)	C (BAR)	DA (BAR)	DB (BAR)	ZMRNG (BAR)	ZMLO (BAR)	ZMHI (BAR)	ZMCAL (BAR)	P0 (BAR)	P1 (BAR)	P2 (BAR)	U0 (BAR)	GAMMA (T/M3)	SVP (BAR)
0.40	0.54	164.	0.20	1.30		0.14	0.47	9.80	0.00	0.50	0.00	0.31	0.83		0.000	1.60	0.071
0.60	0.34	589.	0.56	3.76		0.14	0.47	9.80	0.00	0.50	0.00	0.57	3.29		0.016	1.72	0.087
0.80	0.14	865.	1.41	5.64		0.14	0.47	9.80	0.00	0.50	0.00	1.36	5.17		0.036	1.81	0.102
1.00	-0.06	373.	0.97	3.54		0.14	0.47	9.80	0.00	0.50	0.00	1.01	3.07		0.056	1.72	0.116
1.20	-0.26	120.	0.70	1.56	0.41	0.14	0.47	9.80	0.00	0.50	0.00	0.83	1.09	0.55	0.077	1.52	0.128
1.40	-0.46	33.	0.72	1.79	0.40	0.14	0.47	9.80	0.00	0.50	0.00	0.84	1.32	0.54	0.097	1.62	0.139
1.60	-0.66	43.	0.64	1.66	0.23	0.14	0.47	9.80	0.00	0.50	0.00	0.76	1.19	0.37	0.117	1.62	0.150
1.80	-0.86	71.	0.47	1.69	0.08	0.14	0.47	9.80	0.00	0.50	0.00	0.58	1.22	0.22	0.137	1.62	0.162
2.00	-1.06	127.	0.63	2.04	0.08	0.14	0.47	9.80	0.00	0.50	0.00	0.73	1.57	0.22	0.157	1.62	0.173
2.20	-1.26	191.	0.66	2.24	0.10	0.14	0.47	9.80	0.00	0.50	0.00	0.75	1.77	0.25	0.177	1.62	0.185
2.40	-1.46	603.	1.33	6.07	0.09	0.14	0.47	9.80	0.00	0.50	0.00	1.26	5.60	0.23	0.197	1.81	0.199
2.60	-1.66	566.	1.69	6.12	0.14	0.14	0.47	9.80	0.00	0.50	0.00	1.64	5.65	0.28	0.217	1.81	0.214
2.80	-1.86	422.	1.84	6.34	0.15	0.14	0.47	9.80	0.00	0.50	0.00	1.79	5.87	0.29	0.238	1.81	0.229
3.00	-2.06	301.	0.87	2.82	0.19	0.14	0.47	9.80	0.00	0.50	0.00	0.94	2.35	0.33	0.258	1.72	0.244
3.20	-2.26	280.	0.85	3.62	0.16	0.14	0.47	9.80	0.00	0.50	0.00	0.88	3.15	0.30	0.278	1.72	0.258
3.40	-2.46	95.	1.04	1.85	0.56	0.14	0.47	9.80	0.00	0.50	0.00	1.17	1.38	0.70	0.298	1.52	0.269
3.60	-2.66	20.	1.13	2.09	0.56	0.14	0.47	9.80	0.00	0.50	0.00	1.25	1.62	0.70	0.318	1.62	0.280
3.80	-2.86	38.	1.51	2.59	0.79	0.14	0.47	9.80	0.00	0.50	0.00	1.63	2.12	0.93	0.338	1.62	0.291
4.00	-3.06	47.	1.17	2.98	0.43	0.14	0.47	9.80	0.00	0.50	0.00	1.25	2.51	0.57	0.358	1.62	0.303
4.20	-3.26	45.	1.52	2.49	1.14	0.14	0.47	9.80	0.00	0.50	0.00	1.65	2.02	1.28	0.379	1.62	0.315
4.40	-3.46	515.	1.30	4.67	0.26	0.14	0.47	9.80	0.00	0.50	0.00	1.30	4.20	0.40	0.399	1.72	0.327
4.60	-3.66	906.	2.25	8.26	0.28	0.14	0.47	9.80	0.00	0.50	0.00	2.12	7.79	0.42	0.419	1.81	0.342
4.80	-3.86	657.	1.95	6.44	0.30	0.14	0.47	9.80	0.00	0.50	0.00	1.89	5.97	0.44	0.439	1.81	0.357
5.00	-4.06	660.	1.74	6.26	0.33	0.14	0.47	9.80	0.00	0.50	0.00	1.69	5.79	0.47	0.459	1.81	0.372
5.20	-4.26	812.	1.76	6.76	0.34	0.14	0.47	9.80	0.00	0.50	0.00	1.68	6.29	0.48	0.479	1.81	0.388
5.40	-4.46	1098.	2.04	7.85	0.36	0.14	0.47	9.80	0.00	0.50	0.00	1.92	7.38	0.50	0.499	1.81	0.403
5.60	-4.66	1593.	2.40	9.39	0.38	0.14	0.47	9.80	0.00	0.50	0.00	2.22	8.92	0.52	0.520	1.81	0.419
5.80	-4.86	1878.	2.92	11.05	0.40	0.14	0.47	9.80	0.00	0.50	0.00	2.71	10.08	0.54	0.540	1.91	0.435
6.00	-5.06	1225.	3.51	10.45	0.46	0.14	0.47	9.80	0.00	0.50	0.00	3.36	9.48	0.60	0.560	1.91	0.453
6.20	-5.26	970.	2.38	7.67	0.43	0.14	0.47	9.80	0.00	0.50	0.00	2.29	7.20	0.57	0.580	1.81	0.469
6.40	-5.46	1337.	2.93	10.15	0.46	0.14	0.47	9.80	0.00	0.50	0.00	2.76	9.18	0.60	0.600	1.91	0.486
6.60	-5.66	1024.	2.99	8.81	0.49	0.14	0.47	9.80	0.00	0.50	0.00	2.87	8.34	0.63	0.620	1.91	0.503
6.80	-5.86	1736.	2.92	11.90	0.50	0.14	0.47	9.80	0.00	0.50	0.00	2.66	10.93	0.64	0.640	1.91	0.520
7.00	-6.06	2592.	3.60	13.55	0.51	0.14	0.47	9.80	0.00	0.50	0.00	3.30	12.58	0.65	0.661	1.91	0.538
7.20	-6.26	3502.	5.14	18.35	0.53	0.14	0.47	9.80	0.00	0.50	0.00	4.67	17.38	0.67	0.681	2.01	0.556
7.40	-6.46	2693.	4.77	16.75	0.55	0.14	0.47	9.80	0.00	0.50	0.00	4.36	15.78	0.69	0.701	1.91	0.574
7.60	-6.66	842.	3.48	11.90	0.57	0.14	0.47	9.80	0.00	0.50	0.00	3.26	10.93	0.71	0.721	1.91	0.592
7.80	-6.86	243.	3.02	4.44	2.22	0.14	0.47	9.80	0.00	0.50	0.00	3.12	3.97	2.36	0.741	1.62	0.606
8.00	-7.06	134.	2.87	4.16	2.23	0.14	0.47	9.80	0.00	0.50	0.00	2.97	3.69	2.37	0.761	1.62	0.618
8.20	-7.26	79.	2.74	3.80	2.01	0.14	0.47	9.80	0.00	0.50	0.00	2.86	3.33	2.15	0.781	1.62	0.630
8.40	-7.46	73.	2.45	3.80	1.69	0.14	0.47	9.80	0.00	0.50	0.00	2.55	3.33	1.83	0.801	1.62	0.641
8.60	-7.66	62.	2.58	3.49	1.96	0.14	0.47	9.80	0.00	0.50	0.00	2.70	3.02	2.10	0.822	1.52	0.652
8.80	-7.86	336.	2.38	5.45	0.68	0.14	0.47	9.80	0.00	0.50	0.00	2.40	4.98	0.82	0.842	1.72	0.663
9.00	-8.06	587.	2.80	7.14	0.73	0.14	0.47	9.80	0.00	0.50	0.00	2.75	6.68	0.87	0.862	1.81	0.678
9.20	-8.26	607.	2.47	6.49	0.74	0.14	0.47	9.80	0.00	0.50	0.00	2.44	6.02	0.88	0.882	1.81	0.693
9.40	-8.46	396.	2.38	5.34	0.75	0.14	0.47	9.80	0.00	0.50	0.00	2.40	4.87	0.89	0.902	1.72	0.708
9.60	-8.66	362.	1.94	3.09	0.83	0.14	0.47	9.80	0.00	0.50	0.00	2.05	2.62	0.97	0.922	1.62	0.720
9.80	-8.86	283.	1.79	3.29	0.79	0.14	0.47	9.80	0.00	0.50	0.00	1.89	2.82	0.93	0.942	1.62	0.732
10.00	-9.06	293.	2.15	5.01	0.81	0.14	0.47	9.80	0.00	0.50	0.00	2.18	4.54	0.95	0.963	1.81	0.746
10.20	-9.26	333.	1.91	3.11	0.82	0.14	0.47	9.80	0.00	0.50	0.00	2.02	2.64	0.96	0.983	1.62	0.759
10.40	-9.46	184.	1.93	3.20	0.86	0.14	0.47	9.80	0.00	0.50	0.00	2.03	2.73	1.00	1.003	1.62	0.771
10.60	-9.66	201.	1.98	4.47	0.91	0.14	0.47	9.80	0.00	0.50	0.00	2.02	4.00	1.05	1.023	1.72	0.783
10.80	-9.86	149.	2.22	3.85	1.01	0.14	0.47	9.80	0.00	0.50	0.00	2.31	3.38	1.15	1.043	1.62	0.796
11.00	-10.06	143.	2.97	5.79	1.09	0.14	0.47	9.80	0.00	0.50	0.00	3.00	5.32	1.23	1.063	1.72	0.808
11.20	-10.26	142.	3.74	5.17	2.78	0.14	0.47	9.80	0.00	0.50	0.00	3.84	4.70	2.92	1.083	1.72	0.822
11.40	-10.46	120.	3.93	5.49	2.91	0.14	0.47	9.80	0.00	0.50	0.00	4.02	5.02	3.05	1.104	1.72	0.835
11.60	-10.66	131.	4.05	5.54	3.12	0.14	0.47	9.80	0.00	0.50	0.00	4.14	5.07	3.26	1.124	1.72	0.849
11.80	-10.86	111.	3.87	5.37	3.02	0.13	0.43	9.80	0.02	0.05	0.02	3.95	4.94	3.15	1.144	1.72	0.862
12.00	-11.06	137.	3.88	5.51	2.78	0.13	0.43	9.80	0.02	0.05	0.02	3.96	5.08	2.91	1.164	1.72	0.876

CONTINUED ON NEXT PAGE

Table J.6 continued

DILATOMETER DATA LISTING & INTERPRETATION (BASED ON THE 1988 DILATOMETER MANUAL) SNDG. NO. FRZ006
University of Florida PAGE 2
JOB FILE: UF Pile Freeze FILE NO. : 866
LOCATION: Vilano West, SE of Pile
SNDG.BY : P.Bullock/B.Grajales SNDG.DATE: 08/14/98
ANAL.BY : P.Bullock/T.Esin ANAL.DATE: 11/16/98

ANALYSIS PARAMETERS: LO RANGE = 9.80 BARS ROD DIAM. = 3.57 CM BL.THICK. = 15.0 MM SU FACTOR = 1.00
SURF.ELEV. = 0.94 M LO GAGE 0 = 0.00 BARS FR.RED.DIA. = 3.57 CM BL.WIDTH = 96.0 MM PHI FACTOR = 1.00
WATER DEPTH = 0.44 M HI GAGE 0 = 0.50 BARS LIN.ROD WT. = 6.50 KGF/M DELTA-A = 0.14 BARS OCR FACTOR = 1.00
SP.GR.WATER = 1.026 CAL GAGE 0 = 0.00 BARS DELTA/PHI = 0.50 DELTA-B = 0.47 BARS M FACTOR = 1.00
MAX SU ID = 0.60 SU OPTION = MARCHETTI MIN PHI ID = 1.20 OCR OPTION= MARCHETTI KO FACTOR = 1.00
UNIT CONVERSIONS: 1 BAR = 1.019 KGF/CM2 = 100 KPA = 1.044 TSF = 14.51 PSI 1 M = 3.2808 FT

Z (M)	ELEV (M)	THRUST (KGF)	A (BAR)	B (BAR)	C (BAR)	DA (BAR)	DB (BAR)	ZMRNG (BAR)	ZMLO (BAR)	ZMHI (BAR)	ZMCAL (BAR)	P0 (BAR)	P1 (BAR)	P2 (BAR)	U0 (BAR)	GAMMA (T/M3)	SVP (BAR)
12.20	-11.26	124.	3.87	5.40	2.85	0.13	0.43	9.80	0.02	0.05	0.02	3.95	4.97	2.98	1.184	1.72	0.889
12.40	-11.46	113.	3.98	5.41	3.03	0.13	0.43	9.80	0.02	0.05	0.02	4.07	4.98	3.16	1.204	1.72	0.903
12.60	-11.66	92.	3.55	5.07	2.69	0.13	0.43	9.80	0.02	0.05	0.02	3.63	4.64	2.82	1.224	1.72	0.917
12.80	-11.86	98.	3.55	5.50	2.60	0.13	0.43	9.80	0.02	0.05	0.02	3.61	5.07	2.73	1.244	1.72	0.930
13.00	-12.06	97.	3.85	5.42	2.85	0.13	0.43	9.80	0.02	0.05	0.02	3.93	4.99	2.98	1.265	1.72	0.944
13.20	-12.26	100.	3.86	5.31	3.01	0.13	0.43	9.80	0.02	0.05	0.02	3.95	4.88	3.14	1.285	1.72	0.957
13.40	-12.46	113.	4.18	5.65	3.33	0.13	0.43	9.80	0.02	0.05	0.02	4.26	5.22	3.46	1.305	1.72	0.971
13.60	-12.66	150.	4.38	6.04	3.28	0.13	0.43	9.80	0.02	0.05	0.02	4.45	5.61	3.41	1.325	1.72	0.984
13.80	-12.86	150.	4.52	6.05	3.43	0.13	0.43	9.80	0.02	0.05	0.02	4.60	5.62	3.56	1.345	1.72	0.998
14.00	-13.06	154.	4.51	6.06	3.43	0.13	0.43	9.80	0.02	0.05	0.02	4.59	5.63	3.56	1.365	1.72	1.011
14.20	-13.26	148.	4.57	6.06	3.48	0.13	0.43	9.80	0.02	0.05	0.02	4.65	5.63	3.61	1.385	1.72	1.025
14.40	-13.46	139.	4.48	6.04	3.44	0.13	0.43	9.80	0.02	0.05	0.02	4.56	5.61	3.57	1.406	1.72	1.038
14.60	-13.66	189.	4.45	6.00	3.40	0.13	0.43	9.80	0.02	0.05	0.02	4.53	5.57	3.53	1.426	1.72	1.052
14.80	-13.86	147.	4.51	6.01	3.56	0.13	0.43	9.80	0.02	0.05	0.02	4.59	5.58	3.69	1.446	1.72	1.065
15.00	-14.06	127.	4.33	5.82	3.39	0.13	0.43	9.80	0.02	0.05	0.02	4.41	5.39	3.52	1.466	1.72	1.079
15.20	-14.26	140.	4.61	5.96	3.57	0.13	0.43	9.80	0.02	0.05	0.02	4.70	5.53	3.70	1.486	1.72	1.092
15.40	-14.46	132.	4.41	5.86	3.51	0.13	0.43	9.80	0.02	0.05	0.02	4.50	5.43	3.64	1.506	1.72	1.106
15.60	-14.66	134.	4.63	5.98	3.57	0.13	0.43	9.80	0.02	0.05	0.02	4.72	5.55	3.70	1.526	1.72	1.119
15.80	-14.86	117.	4.29	5.57	3.29	0.13	0.43	9.80	0.02	0.05	0.02	4.38	5.14	3.42	1.547	1.72	1.133
16.00	-15.06	166.	4.15	6.11	2.51	0.13	0.43	9.80	0.02	0.05	0.02	4.21	5.68	2.64	1.567	1.72	1.147
16.20	-15.26	134.	4.56	6.02	3.41	0.13	0.43	9.80	0.02	0.05	0.02	4.64	5.59	3.54	1.587	1.72	1.160
16.40	-15.46	142.	4.65	6.17	3.47	0.13	0.43	9.80	0.02	0.05	0.02	4.73	5.74	3.60	1.607	1.72	1.174
16.60	-15.66	129.	4.76	6.14	3.70	0.13	0.43	9.80	0.02	0.05	0.02	4.85	5.71	3.83	1.627	1.72	1.187
16.80	-15.86	131.	4.73	6.27	3.54	0.13	0.43	9.80	0.02	0.05	0.02	4.81	5.84	3.67	1.647	1.72	1.201
17.00	-16.06	137.	4.80	6.53	3.65	0.13	0.43	9.80	0.02	0.05	0.02	4.87	6.10	3.78	1.667	1.72	1.214
17.20	-16.26	149.	4.84	6.43	3.71	0.13	0.43	9.80	0.02	0.05	0.02	4.92	6.00	3.84	1.688	1.72	1.228
17.40	-16.46	143.	5.01	6.60	3.93	0.13	0.43	9.80	0.02	0.05	0.02	5.09	6.17	4.06	1.708	1.72	1.241
17.60	-16.66	146.	4.96	6.61	3.92	0.13	0.43	9.80	0.02	0.05	0.02	5.04	6.18	4.05	1.728	1.72	1.255
17.80	-16.86	163.	5.23	6.86	3.82	0.13	0.43	9.80	0.02	0.05	0.02	5.31	6.43	3.95	1.748	1.72	1.268
18.00	-17.06	1161.	3.87	8.52	1.55	0.13	0.43	9.80	0.02	0.05	0.02	3.80	8.09	1.68	1.768	1.81	1.283
18.20	-17.26	2122.	6.28	16.85	1.62	0.13	0.43	9.80	0.02	0.05	0.02	5.91	16.39	1.75	1.788	2.01	1.300
18.40	-17.46	2602.	6.48	17.35	1.66	0.13	0.43	9.80	0.02	0.05	0.02	6.10	16.89	1.79	1.808	2.01	1.320
18.60	-17.66	2731.	6.85	19.40	1.68	0.13	0.43	9.80	0.02	0.05	0.02	6.38	18.94	1.81	1.828	2.01	1.339
18.80	-17.86	2936.	4.96	18.25	1.68	0.13	0.43	9.80	0.02	0.05	0.02	4.45	17.79	1.81	1.849	1.91	1.357
19.00	-18.06	2405.	5.88	16.85	1.72	0.13	0.43	9.80	0.02	0.05	0.02	5.49	16.39	1.85	1.869	1.91	1.375
19.20	-18.26	1855.	6.46	16.65	1.73	0.13	0.43	9.80	0.02	0.05	0.02	6.11	16.19	1.86	1.889	2.01	1.393
19.40	-18.46	1510.	5.83	13.90	1.70	0.13	0.43	9.80	0.02	0.05	0.02	5.59	13.44	1.83	1.909	1.91	1.411
19.60	-18.66	1038.	6.65	12.25	1.62	0.13	0.43	9.80	0.02	0.05	0.02	6.53	11.79	1.75	1.929	1.81	1.428

END OF SOUNDING (INTERPRETED SOIL PARAMETERS ON NEXT PAGE)

Table J.6 continued

DILATOMETER DATA LISTING & INTERPRETATION (BASED ON THE 1988 DILATOMETER MANUAL)
University of Florida
JOB FILE: UF Pile Freeze
LOCATION: Vilano West, SE of Pile
SNDG.BY : P.Bullock/B.Grajales
ANAL.BY : P.Bullock/T.Esin

SNDG. NO. FRZ006
PAGE 3
FILE NO. : 866

SNDG.DATE: 08/14/98
ANAL.DATE: 11/16/98

ANALYSIS PARAMETERS: LO RANGE = 9.80 BARS ROD DIAM. = 3.57 CM BL.THICK. = 15.0 MM SU FACTOR = 1.00
SURF.ELEV. = 0.94 M LO GAGE 0 = 0.00 BARS FR.RED.DIA. = 3.57 CM BL.WIDTH = 96.0 MM PHI FACTOR = 1.00
WATER DEPTH = 0.44 M HI GAGE 0 = 0.50 BARS LIN.ROD WT. = 6.50 KGF/M DELTA-A = 0.14 BARS OCR FACTOR = 1.00
SP.GR.WATER = 1.026 CAL GAGE 0 = 0.00 BARS DELTA/PHI = 0.50 DELTA-B = 0.47 BARS M FACTOR = 1.00
MAX SU ID = 0.60 SU OPTION = MARCHETTI MIN PHI ID = 1.20 OCR OPTION= MARCHETTI KO FACTOR = 1.00
UNIT CONVERSIONS: 1 BAR = 1.019 KGF/CM2 = 100 KPA = 1.044 TSF = 14.51 PSI 1 M = 3.2808 FT

Z (M)	ELEV (M)	KD	ID	UD	ED (BAR)	KO	SU (BAR)	QD (BAR)	PHI (DEG)	SIGFF (BAR)	PHIO (DEG)	PC (BAR)	OCR	M (BAR)	SOIL TYPE
0.40	0.54	4.40	1.65		18.	0.62		7.1	40.9	0.12	35.9	0.19	2.6	31.	SANDY SILT
0.60	0.34	6.34	4.90		94.	0.32		26.5	48.6	0.15	45.0	0.09	1.0	198.	SAND
0.80	0.14	13.04	2.86		132.	1.42		35.0	45.7	0.17	42.0	1.52	14.9	363.	SILTY SAND
1.00	-0.06	8.21	2.16		72.	1.11		13.7	40.2	0.19	35.9	0.98	8.4	166.	SILTY SAND
1.20	-0.26	5.87	0.35	0.63	9.	1.30	0.11					0.69	5.4	18.	MUD
1.40	-0.46	5.34	0.65	0.60	17.	1.22						0.64	4.6	31.	CLAYEY SILT
1.60	-0.66	4.28	0.67	0.39	15.	1.04						0.49	3.3	25.	CLAYEY SILT
1.80	-0.86	2.73	1.45	0.20	22.	0.77		2.8	27.7	0.24	22.5	0.42	2.6	28.	SANDY SILT
2.00	-1.06	3.30	1.46	0.12	29.	0.74		4.8	31.4	0.26	26.7	0.49	2.8	41.	SANDY SILT
2.20	-1.26	3.11	1.77	0.12	35.	0.64		7.8	34.6	0.29	30.4	0.42	2.3	49.	SANDY SILT
2.40	-1.46	5.35	4.09	0.03	151.	0.72		25.0	41.3	0.33	38.0	0.72	3.6	295.	SAND
2.60	-1.66	6.65	2.82	0.04	139.	0.95		21.1	39.3	0.35	35.9	1.29	6.0	298.	SILTY SAND
2.80	-1.86	6.75	2.63	0.03	142.	1.05		13.8	36.0	0.36	32.4	1.61	7.0	304.	SILTY SAND
3.00	-2.06	2.81	2.05	0.10	49.	0.57		12.8	36.3	0.39	32.8	0.45	1.8	64.	SILTY SAND
3.20	-2.26	2.35	3.76	0.03	79.	0.52		12.4	35.8	0.41	32.4	0.39	1.5	98.	SAND
3.40	-2.46	3.24	0.24	0.46	7.	0.84	0.11					0.57	2.1	10.	MUD
3.60	-2.66	3.34	0.39	0.41	13.	0.86	0.12					0.62	2.2	17.	SILTY CLAY
3.80	-2.86	4.44	0.38	0.46	17.	1.06	0.17					1.01	3.5	28.	SILTY CLAY
4.00	-3.06	2.94	1.42	0.24	44.	1.01		1.7	17.8	0.40	13.2	1.38	4.6	57.	SANDY SILT
4.20	-3.26	4.03	0.29	0.71	13.	0.99	0.17					0.94	3.0	20.	CLAY
4.40	-3.46	2.75	3.22	-0.00	101.	0.51		22.6	38.2	0.53	35.5	0.52	1.6	139.	SILTY SAND
4.60	-3.66	4.99	3.33	-0.00	197.	0.71		37.0	40.4	0.56	37.9	1.17	3.4	373.	SAND
4.80	-3.86	4.07	2.80	-0.00	141.	0.67		26.5	38.2	0.58	35.6	1.01	2.8	242.	SILTY SAND
5.00	-4.06	3.29	3.34	0.01	142.	0.56		28.1	38.6	0.60	36.1	0.74	2.0	218.	SAND
5.20	-4.26	3.10	3.83	-0.00	160.	0.50		35.8	40.1	0.64	37.7	0.63	1.6	237.	SAND
5.40	-4.46	3.51	3.86	-0.00	190.	0.49		48.7	41.7	0.67	39.6	0.67	1.7	302.	SAND
5.60	-4.66	4.06	3.94	-0.00	233.	0.46		71.6	43.7	0.71	41.8	0.68	1.6	399.	SAND
5.80	-4.86	4.98	3.40	-0.00	256.	0.56		82.8	43.9	0.74	42.1	1.04	2.4	485.	SAND
6.00	-5.06	6.19	2.18	0.01	212.	0.88		46.6	39.6	0.74	37.5	2.36	5.2	437.	SILTY SAND
6.20	-5.26	3.64	2.88	-0.01	171.	0.58		41.0	39.5	0.77	37.4	1.02	2.2	275.	SILTY SAND
6.40	-5.46	4.45	2.97	-0.00	223.	0.63		56.3	41.0	0.80	39.1	1.30	2.7	400.	SILTY SAND
6.60	-5.66	4.47	2.44	0.00	190.	0.70		40.6	38.6	0.82	36.7	1.60	3.2	336.	SILTY SAND
6.80	-5.86	3.89	4.08	-0.00	287.	0.48		77.2	42.8	0.87	41.2	0.89	1.7	482.	SAND
7.00	-6.06	4.91	3.52	-0.00	322.	0.50		115.9	44.8	0.92	43.3	1.07	2.0	606.	SAND
7.20	-6.26	7.18	3.19	-0.00	441.	0.75		152.1	45.2	0.95	43.8	2.41	4.3	975.	SILTY SAND
7.40	-6.46	6.38	3.12	-0.00	396.	0.74		114.1	43.6	0.97	42.1	2.37	4.1	836.	SILTY SAND
7.60	-6.66	4.29	3.02	-0.00	266.	0.76		30.9	35.7	0.94	33.8	2.03	3.4	470.	SILTY SAND
7.80	-6.86	3.92	0.36	0.68	30.	0.97	0.31					1.73	2.9	45.	SILTY CLAY
8.00	-7.06	3.58	0.33	0.73	25.	0.91	0.28					1.53	2.5	36.	CLAY
8.20	-7.26	3.30	0.22	0.66	16.	0.85	0.26					1.38	2.2	22.	CLAY
8.40	-7.46	2.73	0.44	0.59	27.	0.73	0.21					1.04	1.6	31.	SILTY CLAY
8.60	-7.66	2.88	0.17	0.68	11.	0.76	0.23					1.15	1.8	14.	MUD
8.80	-7.86	2.34	1.66	-0.01	89.	0.69		13.0	28.9	0.98	26.8	1.40	2.1	100.	SANDY SILT
9.00	-8.06	2.79	2.07	0.00	136.	0.64		23.0	33.1	1.05	31.3	1.45	2.1	179.	SILTY SAND
9.20	-8.26	2.24	2.30	-0.00	124.	0.55		25.7	33.9	1.08	32.2	1.11	1.6	141.	SILTY SAND
9.40	-8.46	2.12	1.64	-0.01	86.	0.63		16.2	30.2	1.06	28.3	1.27	1.8	87.	SANDY SILT
9.60	-8.66	1.57	0.51	0.04	20.	0.42	0.12					0.49	0.7	17.	SILTY CLAY
9.80	-8.86	1.29	0.99	-0.01	32.	0.33						0.37	0.5	28.	SILT
10.00	-9.06	1.64	1.93	-0.01	82.	0.63		12.9	28.1	1.10	26.2	1.16	1.6	70.	SILTY SAND
10.20	-9.26	1.37	0.60	-0.02	22.	0.36						0.42	0.6	18.	CLAYEY SILT
10.40	-9.46	1.34	0.68	-0.00	24.	0.35						0.41	0.5	21.	CLAYEY SILT
10.60	-9.66	1.28	1.97	0.03	68.	0.65		9.8	25.4	1.12	23.5	1.12	1.4	58.	SILTY SAND
10.80	-9.86	1.59	0.84	0.08	37.	0.43						0.56	0.7	32.	CLAYEY SILT
11.00	-10.06	2.39	1.20	0.09	81.	0.91		5.0	19.1	1.07	16.9	2.61	3.2	88.	SANDY SILT
11.20	-10.26	3.35	0.32	0.67	30.	0.86	0.34					1.84	2.2	42.	CLAY
11.40	-10.46	3.50	0.34	0.67	35.	0.89	0.37					2.00	2.4	49.	CLAY
11.60	-10.66	3.56	0.31	0.71	32.	0.90	0.38					2.09	2.5	46.	CLAY
11.80	-10.86	3.26	0.35	0.71	34.	0.84	0.35					1.85	2.1	46.	SILTY CLAY
12.00	-11.06	3.19	0.40	0.63	39.	0.83	0.35					1.81	2.1	52.	SILTY CLAY

CONTINUED ON NEXT PAGE

Table J.6 continued

DILATOMETER DATA LISTING & INTERPRETATION (BASED ON THE 1988 DILATOMETER MANUAL) SNDG. NO. FRZ006
University of Florida PAGE 4
JOB FILE: UF Pile Freeze FILE NO. : 866
LOCATION: Vilano West, SE of Pile
SNDG.BY : P.Bullock/B.Grajales SNDG.DATE: 08/14/98
ANAL.BY : P.Bullock/T.Esin ANAL.DATE: 11/16/98

ANALYSIS PARAMETERS: LO RANGE = 9.80 BARS ROD DIAM. = 3.57 CM BL.THICK. = 15.0 MM SU FACTOR = 1.00
SURF.ELEV. = 0.94 M LO GAGE 0 = 0.00 BARS FR.RED.DIA. = 3.57 CM BL.WIDTH = 96.0 MM PHI FACTOR = 1.00
WATER DEPTH = 0.44 M HI GAGE 0 = 0.50 BARS LIN.ROD WT. = 6.50 KGF/M DELTA-A = 0.14 BARS OCR FACTOR = 1.00
SP.GR.WATER = 1.026 CAL GAGE 0 = 0.00 BARS DELTA/PHI = 0.50 DELTA-B = 0.47 BARS M FACTOR = 1.00
MAX SU ID = 0.60 SU OPTION = MARCHETTI MIN PHI ID = 1.20 OCR OPTION= MARCHETTI KO FACTOR = 1.00
UNIT CONVERSIONS: 1 BAR = 1.019 KGF/CM2 = 100 KPA = 1.044 TSF = 14.51 PSI 1 M = 3.2808 FT

Z (M)	ELEV (M)	KD	ID	UD	ED (BAR)	KO	SU (BAR)	QD (BAR)	PHI (DEG)	SIGFF (BAR)	PHIO (DEG)	PC (BAR)	OCR	M (BAR)	SOIL TYPE
12.20	-11.26	3.11	0.37	0.65	35.	0.81	0.34					1.77	2.0	46.	SILTY CLAY
12.40	-11.46	3.17	0.32	0.68	32.	0.82	0.35					1.85	2.1	42.	CLAY
12.60	-11.66	2.63	0.42	0.66	35.	0.70	0.28					1.40	1.5	40.	SILTY CLAY
12.80	-11.86	2.54	0.62	0.63	51.	0.68						1.35	1.5	56.	CLAYEY SILT
13.00	-12.06	2.82	0.40	0.64	37.	0.75	0.32					1.62	1.7	44.	SILTY CLAY
13.20	-12.26	2.78	0.35	0.70	32.	0.74	0.32					1.60	1.7	39.	SILTY CLAY
13.40	-12.46	3.05	0.32	0.73	33.	0.80	0.36					1.87	1.9	43.	CLAY
13.60	-12.66	3.18	0.37	0.67	40.	0.82	0.39					2.03	2.1	53.	SILTY CLAY
13.80	-12.86	3.26	0.31	0.68	35.	0.84	0.40					2.14	2.1	48.	CLAY
14.00	-13.06	3.19	0.32	0.68	36.	0.83	0.40					2.09	2.1	48.	CLAY
14.20	-13.26	3.19	0.30	0.68	34.	0.83	0.40					2.12	2.1	45.	CLAY
14.40	-13.46	3.04	0.33	0.69	36.	0.79	0.39					1.99	1.9	47.	CLAY
14.60	-13.66	2.95	0.33	0.68	36.	0.77	0.38					1.93	1.8	45.	CLAY
14.80	-13.86	2.95	0.31	0.71	34.	0.78	0.38					1.96	1.8	43.	CLAY
15.00	-14.06	2.73	0.33	0.70	34.	0.73	0.35					1.75	1.6	40.	CLAY
15.20	-14.26	2.94	0.26	0.69	29.	0.77	0.39					2.00	1.8	36.	CLAY
15.40	-14.46	2.70	0.31	0.71	32.	0.72	0.35					1.77	1.6	38.	CLAY
15.60	-14.66	2.85	0.26	0.68	29.	0.75	0.38					1.95	1.7	35.	CLAY
15.80	-14.86	2.50	0.27	0.66	26.	0.67	0.33					1.61	1.4	28.	CLAY
16.00	-15.06	2.31	0.56	0.41	51.	0.62	0.30					1.43	1.2	51.	SILTY CLAY
16.20	-15.26	2.64	0.31	0.64	33.	0.70	0.36					1.78	1.5	37.	CLAY
16.40	-15.46	2.66	0.32	0.64	35.	0.71	0.37					1.83	1.6	40.	CLAY
16.60	-15.66	2.71	0.27	0.68	30.	0.72	0.38					1.91	1.6	35.	CLAY
16.80	-15.86	2.64	0.33	0.64	36.	0.70	0.37					1.85	1.5	40.	CLAY
17.00	-16.06	2.64	0.38	0.66	43.	0.70	0.38					1.87	1.5	48.	SILTY CLAY
17.20	-16.26	2.63	0.33	0.67	38.	0.70	0.38					1.88	1.5	42.	CLAY
17.40	-16.46	2.72	0.32	0.70	38.	0.72	0.40					2.01	1.6	44.	CLAY
17.60	-16.66	2.64	0.35	0.70	40.	0.70	0.39					1.93	1.5	45.	CLAY
17.80	-16.86	2.81	0.32	0.62	39.	0.74	0.43					2.15	1.7	47.	CLAY
18.00	-17.06	1.58	2.12	-0.04	149.	0.45		53.7	35.0	2.02	34.5	1.34	1.0	127.	SILTY SAND
18.20	-17.26	3.17	2.54	-0.01	364.	0.57		88.7	37.9	2.10	37.5	2.57	2.0	534.	SILTY SAND
18.40	-17.46	3.25	2.52	-0.00	375.	0.54		111.3	39.3	2.16	39.0	2.43	1.8	557.	SILTY SAND
18.60	-17.66	3.40	2.76	-0.00	436.	0.55		116.2	39.5	2.19	39.1	2.62	2.0	674.	SILTY SAND
18.80	-17.86	1.92	5.12	-0.01	463.	0.31		138.9	41.3	2.25	41.0	0.89	0.7	494.	SAND
19.00	-18.06	2.64	3.01	-0.01	378.	0.47		106.0	39.0	2.24	38.7	1.93	1.4	507.	SILTY SAND
19.20	-18.26	3.03	2.39	-0.01	350.	0.59		75.8	36.4	2.22	36.1	2.83	2.0	495.	SILTY SAND
19.40	-18.46	2.61	2.14	-0.02	273.	0.57		62.3	35.1	2.22	34.7	2.53	1.8	342.	SILTY SAND
19.60	-18.66	3.22	1.14	-0.04	183.	0.83						3.00	2.1	252.	SILT

END OF SOUNDING

Table ~~J.7~~ DMT Sounding FRZ007 at VLW

DILATOMETER DATA LISTING & INTERPRETATION (BASED ON THE 1988 DILATOMETER MANUAL) SNDG. NO. FRZ007
University of Florida PAGE 1
JOB FILE: UF Pile Freeze FILE NO. : 866
LOCATION: Vilano West, NW of Pile
SNDG.BY : P.Bullock SNDG.DATE: 08/24/98
ANAL.BY : P.Bullock/T.Esin ANAL.DATE: 11/05/98

ANALYSIS PARAMETERS: LO RANGE = 9.80 BARS ROD DIAM. = 3.57 CM BL.THICK. = 15.0 MM SU FACTOR = 1.00
SURF.ELEV. = 1.41 M LO GAGE 0 = 0.02 BARS FR.RED.DIA. = 3.57 CM BL.WIDTH = 96.0 MM PHI FACTOR = 1.00
WATER DEPTH = 0.91 M HI GAGE 0 = 0.02 BARS LIN.ROD WT. = 6.50 KGF/M DELTA-A = 0.13 BARS OCR FACTOR = 1.00
SP.GR.WATER = 1.026 CAL GAGE 0 = 0.02 BARS DELTA/PHI = 0.50 DELTA-B = 0.39 BARS M FACTOR = 1.00
MAX SU ID = 0.60 SU OPTION = MARCHETTI MIN PHI ID = 1.20 OCR OPTION= MARCHETTI KO FACTOR = 1.00
UNIT CONVERSIONS: 1 BAR = 1.019 KGF/CM2 = 100 KPA = 1.044 TSF = 14.51 PSI 1 M = 3.2808 FT

Z (M)	ELEV (M)	THRUST (KGF)	A (BAR)	B (BAR)	C (BAR)	DA (BAR)	DB (BAR)	ZMRNG (BAR)	ZMLO (BAR)	ZMHI (BAR)	ZMCAL (BAR)	P0 (BAR)	P1 (BAR)	P2 (BAR)	U0 (BAR)	GAMMA (T/M3)	SVP (BAR)
1.20	0.21	1445.	1.63	9.42		0.13	0.39	9.80	0.02	0.02	0.02	1.40	9.03		0.029	1.81	0.194
1.40	0.01	1293.	1.87	7.96		0.13	0.39	9.80	0.02	0.02	0.02	1.72	7.57		0.049	1.81	0.209
1.60	-0.19	686.	1.07	4.43		0.13	0.39	9.80	0.02	0.02	0.02	1.06	4.04		0.069	1.72	0.224
1.80	-0.39	193.	0.94	2.43		0.13	0.39	9.80	0.02	0.02	0.02	1.02	2.04		0.090	1.62	0.237
2.00	-0.59	77.	0.93	1.73		0.13	0.39	9.80	0.02	0.02	0.02	1.05	1.34		0.110	1.52	0.247
2.20	-0.79	32.	0.63	1.28	0.20	0.13	0.39	9.80	0.02	0.02	0.02	0.75	0.89	0.33	0.130	1.52	0.257
2.40	-0.99	95.	0.68	2.20	0.09	0.13	0.39	9.80	0.02	0.02	0.02	0.76	1.81	0.22	0.150	1.62	0.267
2.60	-1.19	137.	0.84	1.76	0.42	0.13	0.39	9.80	0.02	0.02	0.02	0.95	1.37	0.55	0.170	1.62	0.279
2.80	-1.39	730.	1.48	7.48	0.10	0.13	0.39	9.80	0.02	0.02	0.02	1.34	7.09	0.23	0.190	1.81	0.293
3.00	-1.59	1006.	2.12	8.25	0.12	0.13	0.39	9.80	0.02	0.02	0.02	1.97	7.86	0.25	0.210	1.81	0.308
3.20	-1.79	583.	1.47	4.72	0.15	0.13	0.39	9.80	0.02	0.02	0.02	1.46	4.33	0.28	0.231	1.81	0.323
3.40	-1.99	351.	0.77	3.37	0.12	0.13	0.39	9.80	0.02	0.02	0.02	0.80	2.98	0.25	0.251	1.72	0.338
3.60	-2.19	172.	0.82	1.85		0.13	0.39	9.80	0.02	0.02	0.02	0.92	1.46		0.271	1.62	0.351
3.80	-2.39	146.	0.85	1.51	0.35	0.13	0.39	9.80	0.02	0.02	0.02	0.97	1.12	0.48	0.291	1.52	0.361
4.00	-2.59	65.	1.21	1.79	0.79	0.13	0.39	9.80	0.02	0.02	0.02	1.34	1.40	0.92	0.311	1.52	0.371
4.20	-2.79	45.	1.51	2.32	0.96	0.13	0.39	9.80	0.02	0.02	0.02	1.63	1.93	1.09	0.331	1.52	0.381
4.40	-2.99	41.	1.68	2.47	1.22	0.13	0.39	9.80	0.02	0.02	0.02	1.80	2.08	1.35	0.351	1.52	0.390
4.60	-3.19	36.	1.72	2.58	1.26	0.13	0.39	9.80	0.02	0.02	0.02	1.83	2.19	1.39	0.372	1.62	0.401
4.80	-3.39	213.	1.78	2.58	1.33	0.13	0.39	9.80	0.02	0.02	0.02	1.90	2.19	1.46	0.392	1.52	0.411
5.00	-3.59	977.	2.34	9.55	0.28	0.13	0.39	9.80	0.02	0.02	0.02	2.14	9.16	0.41	0.412	1.81	0.424
5.20	-3.79	953.	2.44	8.73	0.29	0.13	0.39	9.80	0.02	0.02	0.02	2.28	8.34	0.42	0.432	1.81	0.439
5.40	-3.99	894.	2.07	7.37	0.31	0.13	0.39	9.80	0.02	0.02	0.02	1.96	6.98	0.44	0.452	1.81	0.455
5.60	-4.19	990.	1.99	7.53	0.33	0.13	0.39	9.80	0.02	0.02	0.02	1.87	7.14	0.46	0.472	1.81	0.470
5.80	-4.39	1096.	2.58	8.46	0.36	0.13	0.39	9.80	0.02	0.02	0.02	2.44	8.07	0.49	0.492	1.81	0.486
6.00	-4.59	2122.	2.91	11.45	0.37	0.13	0.39	9.80	0.02	0.02	0.02	2.64	11.06	0.50	0.512	1.91	0.502
6.20	-4.79	2429.	4.02	13.45	0.39	0.13	0.39	9.80	0.02	0.02	0.02	3.70	13.06	0.52	0.533	1.91	0.520
6.40	-4.99	1690.	3.65	11.35	0.42	0.13	0.39	9.80	0.02	0.02	0.02	3.42	10.96	0.55	0.553	1.91	0.537
6.60	-5.19	1243.	3.36	10.40	0.44	0.13	0.39	9.80	0.02	0.02	0.02	3.16	10.01	0.57	0.573	1.91	0.554
6.80	-5.39	1178.	3.61	9.55	0.48	0.13	0.39	9.80	0.02	0.02	0.02	3.47	9.16	0.61	0.593	1.91	0.572
7.00	-5.59	1008.	2.79	9.70	0.48	0.13	0.39	9.80	0.02	0.02	0.02	2.60	9.31	0.61	0.613	1.91	0.589
7.20	-5.79	1311.	3.88	13.65	0.51	0.13	0.39	9.80	0.02	0.02	0.02	3.55	13.26	0.64	0.633	1.91	0.607
7.40	-5.99	2280.	2.67	9.09	0.52	0.13	0.39	9.80	0.02	0.02	0.02	2.50	8.70	0.65	0.653	1.81	0.623
7.60	-6.19	4606.	5.37	19.55	0.53	0.13	0.39	9.80	0.02	0.02	0.02	4.82	19.16	0.66	0.674	2.01	0.640
7.80	-6.39	3283.	5.51	18.55	0.55	0.13	0.39	9.80	0.02	0.02	0.02	5.01	18.16	0.68	0.694	2.01	0.660
8.00	-6.59	993.	4.14	11.35	0.57	0.13	0.39	9.80	0.02	0.02	0.02	3.94	10.96	0.70	0.714	1.91	0.678
8.20	-6.79	311.	2.71	3.97	1.78	0.13	0.39	9.80	0.02	0.02	0.02	2.80	3.58	1.91	0.734	1.62	0.693
8.40	-6.99	124.	2.94	4.02	2.22	0.13	0.39	9.80	0.02	0.02	0.02	3.04	3.63	2.35	0.754	1.62	0.704
8.60	-7.19	93.	2.87	3.85	2.17	0.13	0.39	9.80	0.02	0.02	0.02	2.98	3.46	2.30	0.774	1.62	0.716
8.80	-7.39	100.	2.56	4.00	1.47	0.13	0.39	9.80	0.02	0.02	0.02	2.64	3.61	1.60	0.794	1.62	0.727
9.00	-7.59	94.	2.88	3.87	2.04	0.13	0.39	9.80	0.02	0.02	0.02	2.99	3.48	2.17	0.815	1.62	0.739
9.20	-7.79	73.	2.56	3.33	1.60	0.13	0.39	9.80	0.02	0.02	0.02	2.68	2.94	1.73	0.835	1.52	0.750
9.40	-7.99	383.	2.11	6.47	0.70	0.13	0.39	9.80	0.02	0.02	0.02	2.05	6.08	0.83	0.855	1.81	0.762
9.60	-8.19	665.	2.46	6.16	0.75	0.13	0.39	9.80	0.02	0.02	0.02	2.43	5.77	0.88	0.875	1.81	0.778
9.80	-8.39	525.	2.65	7.18	0.75	0.13	0.39	9.80	0.02	0.02	0.02	2.58	6.79	0.88	0.895	1.81	0.793
10.00	-8.59	377.	1.91	3.57	0.72	0.13	0.39	9.80	0.02	0.02	0.02	1.98	3.18	0.85	0.915	1.62	0.807
10.20	-8.79	422.	2.23	5.98	0.81	0.13	0.39	9.80	0.02	0.02	0.02	2.20	5.59	0.94	0.935	1.81	0.820
10.40	-8.99	586.	2.16	7.02	0.81	0.13	0.39	9.80	0.02	0.02	0.02	2.07	6.63	0.94	0.956	1.81	0.836
10.60	-9.19	714.	2.69	7.31	0.86	0.13	0.39	9.80	0.02	0.02	0.02	2.62	6.92	0.99	0.976	1.81	0.851
10.80	-9.39	481.	2.47	4.68	0.76	0.13	0.39	9.80	0.02	0.02	0.02	2.52	4.29	0.89	0.996	1.72	0.866
11.00	-9.59	230.	2.62	5.53	0.88	0.13	0.39	9.80	0.02	0.02	0.02	2.63	5.14	1.01	1.016	1.72	0.879
11.20	-9.79	232.	2.11	4.28	0.90	0.13	0.39	9.80	0.02	0.02	0.02	2.16	3.89	1.03	1.036	1.62	0.892
11.40	-9.99	177.	2.83	3.91	1.53	0.13	0.39	9.80	0.02	0.02	0.02	2.93	3.52	1.66	1.056	1.62	0.903
11.60	-10.19	200.	3.76	5.27	2.69	0.13	0.39	9.80	0.02	0.02	0.02	3.84	4.88	2.82	1.076	1.72	0.916
11.80	-10.39	135.	3.88	5.38	2.87	0.13	0.39	9.80	0.02	0.02	0.02	3.96	4.99	3.00	1.096	1.72	0.929
12.00	-10.59	149.	4.15	5.62	3.11	0.13	0.39	9.80	0.02	0.02	0.02	4.23	5.23	3.24	1.117	1.72	0.943
12.20	-10.79	152.	3.94	5.37	3.02	0.13	0.39	9.80	0.02	0.02	0.02	4.02	4.98	3.15	1.137	1.72	0.956
12.40	-10.99	144.	3.94	5.34	3.05	0.13	0.39	9.80	0.02	0.02	0.02	4.03	4.95	3.18	1.157	1.72	0.970
12.60	-11.19	148.	4.16	5.59	3.49	0.13	0.39	9.80	0.02	0.02	0.02	4.24	5.20	3.62	1.177	1.72	0.984
12.80	-11.39	154.	4.06	5.58	3.09	0.13	0.39	9.80	0.02	0.02	0.02	4.14	5.19	3.22	1.197	1.72	0.997

CONTINUED ON NEXT PAGE

Table J.7 continued

DILATOMETER DATA LISTING & INTERPRETATION (BASED ON THE 1988 DILATOMETER MANUAL) SNDG. NO. FRZ007
University of Florida PAGE 2
JOB FILE: UF Pile Freeze FILE NO. : 866
LOCATION: Vilano West, NW of Pile
SNDG.BY : P.Bullock SNDG.DATE: 08/24/98
ANAL.BY : P.Bullock/T.Esin ANAL.DATE: 11/05/98

ANALYSIS PARAMETERS: LO RANGE = 9.80 BARS ROD DIAM. = 3.57 CM BL.THICK. = 15.0 MM SU FACTOR = 1.00
SURF.ELEV. = 1.41 M LO GAGE 0 = 0.02 BARS FR.RED.DIA. = 3.57 CM BL.WIDTH = 96.0 MM PHI FACTOR = 1.00
WATER DEPTH = 0.91 M HI GAGE 0 = 0.02 BARS LIN.ROD WT. = 6.50 KGF/M DELTA-A = 0.13 BARS OCR FACTOR = 1.00
SP.GR.WATER = 1.026 CAL GAGE 0 = 0.02 BARS DELTA/PHI = 0.50 DELTA-B = 0.39 BARS M FACTOR = 1.00
MAX SU ID = 0.60 SU OPTION = MARCHETTI MIN PHI ID = 1.20 OCR OPTION= MARCHETTI KO FACTOR = 1.00
UNIT CONVERSIONS: 1 BAR = 1.019 KGF/CM2 = 100 KPA = 1.044 TSF = 14.51 PSI 1 M = 3.2808 FT

Z (M)	ELEV (M)	THRUST (KGF)	A (BAR)	B (BAR)	C (BAR)	DA (BAR)	DB (BAR)	ZMRNG (BAR)	ZMLO (BAR)	ZMHI (BAR)	ZMCAL (BAR)	P0 (BAR)	P1 (BAR)	P2 (BAR)	U0 (BAR)	GAMMA (T/M3)	SVP (BAR)
13.00	-11.59	155.	3.81	5.31	2.88	0.13	0.39	9.80	0.02	0.02	0.02	3.89	4.92	3.01	1.217	1.72	1.011
13.20	-11.79	163.	3.85	5.35	2.89	0.13	0.39	9.80	0.02	0.02	0.02	3.93	4.96	3.02	1.237	1.72	1.024
13.40	-11.99	143.	4.00	5.49	3.00	0.13	0.39	9.80	0.02	0.02	0.02	4.08	5.10	3.13	1.258	1.72	1.038
13.60	-12.19	147.	4.23	5.66	3.16	0.13	0.39	9.80	0.02	0.02	0.02	4.31	5.27	3.29	1.278	1.72	1.051
13.80	-12.39	207.	4.41	5.91	3.29	0.13	0.39	9.80	0.02	0.02	0.02	4.49	5.52	3.42	1.298	1.72	1.065
14.00	-12.59	172.	4.45	5.95	3.41	0.13	0.39	9.80	0.02	0.02	0.02	4.53	5.56	3.54	1.318	1.72	1.078
14.20	-12.79	170.	4.53	6.13	3.38	0.13	0.39	9.80	0.02	0.02	0.02	4.61	5.74	3.51	1.338	1.72	1.092
14.40	-12.99	162.	4.52	6.03	3.49	0.13	0.39	9.80	0.02	0.02	0.02	4.60	5.64	3.62	1.358	1.72	1.105
14.60	-13.19	169.	4.56	6.09	3.34	0.13	0.39	9.80	0.02	0.02	0.02	4.64	5.70	3.47	1.378	1.72	1.119
14.80	-13.39	179.	4.69	6.19	3.53	0.13	0.39	9.80	0.02	0.02	0.02	4.77	5.80	3.66	1.399	1.72	1.132
15.00	-13.59	180.	4.66	6.28	3.57	0.13	0.39	9.80	0.02	0.02	0.02	4.73	5.89	3.70	1.419	1.72	1.146
15.20	-13.79	196.	4.95	8.11	2.58	0.13	0.39	9.80	0.02	0.02	0.02	4.95	7.72	2.71	1.439	1.81	1.160
15.40	-13.99	184.	4.81	6.25	3.78	0.13	0.39	9.80	0.02	0.02	0.02	4.89	5.86	3.91	1.459	1.72	1.175
15.60	-14.19	162.	4.76	6.25	3.64	0.13	0.39	9.80	0.02	0.02	0.02	4.84	5.86	3.77	1.479	1.72	1.188
15.80	-14.39	194.	3.88	7.97	1.44	0.13	0.39	9.80	0.02	0.02	0.02	3.83	7.58	1.57	1.499	1.72	1.202
16.00	-14.59	327.	3.26	5.86	1.48	0.13	0.39	9.80	0.02	0.02	0.02	3.29	5.47	1.61	1.519	1.72	1.215
16.20	-14.79	332.	4.16	5.37	2.91	0.13	0.39	9.80	0.02	0.02	0.02	4.26	4.98	3.04	1.540	1.62	1.228
16.40	-14.99	243.	4.17	6.64	2.06	0.13	0.39	9.80	0.02	0.02	0.02	4.20	6.25	2.19	1.560	1.72	1.241
16.60	-15.19	172.	4.99	8.18	2.13	0.13	0.39	9.80	0.02	0.02	0.02	4.99	7.79	2.26	1.580	1.81	1.255
16.80	-15.39	263.	4.35	5.88	2.33	0.13	0.39	9.80	0.02	0.02	0.02	4.43	5.49	2.46	1.600	1.72	1.270
17.00	-15.59	370.	5.06	7.71	2.72	0.13	0.39	9.80	0.02	0.02	0.02	5.08	7.32	2.85	1.620	1.72	1.283
17.20	-15.79	249.	5.98	8.31	4.07	0.13	0.39	9.80	0.02	0.02	0.02	6.02	7.92	4.20	1.640	1.81	1.298
17.40	-15.99	427.	6.32	13.35	1.72	0.13	0.39	9.80	0.02	0.02	0.02	6.12	12.96	1.85	1.660	1.81	1.313
17.60	-16.19	4945.	6.17	14.75	1.41	0.13	0.39	9.80	0.02	0.02	0.02	5.90	14.36	1.54	1.680	1.91	1.329
17.80	-16.39	4953.	7.68	18.80	1.52	0.13	0.39	9.80	0.02	0.02	0.02	7.28	18.41	1.65	1.701	2.01	1.348
18.00	-16.59	1698.	4.37	11.15	1.52	0.13	0.39	9.80	0.02	0.02	0.02	4.19	10.76	1.65	1.721	1.91	1.366
18.20	-16.79	2456.	5.58	16.60	1.55	0.13	0.39	9.80	0.02	0.02	0.02	5.18	16.21	1.68	1.741	1.91	1.384
18.40	-16.99	2987.	7.06	19.55	1.56	0.13	0.39	9.80	0.02	0.02	0.02	6.59	19.16	1.69	1.761	2.01	1.402
18.60	-17.19	3046.	6.71	19.40	1.57	0.13	0.39	9.80	0.02	0.02	0.02	6.23	19.01	1.70	1.781	2.01	1.421
18.80	-17.39	2686.	6.96	18.35	1.60	0.13	0.39	9.80	0.02	0.02	0.02	6.55	17.96	1.73	1.801	2.01	1.441
19.00	-17.59	2435.	6.02	15.95	1.62	0.13	0.39	9.80	0.02	0.02	0.02	5.68	15.56	1.75	1.821	1.91	1.459
19.20	-17.79	2258.	5.71	15.65	1.65	0.13	0.39	9.80	0.02	0.02	0.02	5.37	15.26	1.78	1.842	1.91	1.476
19.40	-17.99	2113.	6.02	15.10	1.67	0.13	0.39	9.80	0.02	0.02	0.02	5.72	14.71	1.80	1.862	1.91	1.494
19.60	-18.19	1929.	5.16	13.30	1.68	0.13	0.39	9.80	0.02	0.02	0.02	4.91	12.91	1.81	1.882	1.91	1.511

END OF SOUNDING (INTERPRETED SOIL PARAMETERS ON NEXT PAGE)

Table J.7 continued

DILATOMETER DATA LISTING & INTERPRETATION (BASED ON THE 1988 DILATOMETER MANUAL) SNDG. NO. FRZ007
University of Florida PAGE 3
JOB FILE: UF Pile Freeze FILE NO. : 866
LOCATION: Vilano West, NW of Pile
SNDG.BY : P.Bullock SNDG.DATE: 08/24/98
ANAL.BY : P.Bullock/T.Esin ANAL.DATE: 11/05/98

ANALYSIS PARAMETERS: LO RANGE = 9.80 BARS ROD DIAM. = 3.57 CM BL.THICK. = 15.0 MM SU FACTOR = 1.00
SURF.ELEV. = 1.41 M LO GAGE 0 = 0.02 BARS FR.RED.DIA. = 3.57 CM BL.WIDTH = 96.0 MM PHI FACTOR = 1.00
WATER DEPTH = 0.91 M HI GAGE 0 = 0.02 BARS LIN.ROD WT. = 6.50 KGF/M DELTA-A = 0.13 BARS OCR FACTOR = 1.00
SP.GR.WATER = 1.026 CAL GAGE 0 = 0.02 BARS DELTA/PHI = 0.50 DELTA-B = 0.39 BARS M FACTOR = 1.00
MAX SU ID = 0.60 SU OPTION = MARCHETTI MIN PHI ID = 1.20 OCR OPTION= MARCHETTI KO FACTOR = 1.00
UNIT CONVERSIONS: 1 BAR = 1.019 KGF/CM2 = 100 KPA = 1.044 TSF = 14.51 PSI 1 M = 3.2808 FT

Z (M)	ELEV (M)	KD	ID	UD	ED (BAR)	KO	SU (BAR)	QD (BAR)	PHI (DEG)	SIGFF (BAR)	PHIO (DEG)	PC (BAR)	OCR	M (BAR)	SOIL TYPE
1.20	0.21	7.05	5.58		265.	0.56		64.3	47.3	0.34	44.6	0.52	2.7	582.	SAND
1.40	0.01	7.98	3.50		203.	0.85		54.7	45.1	0.36	42.3	1.17	5.6	468.	SAND
1.60	-0.19	4.41	3.02		103.	0.58		29.4	42.0	0.37	39.0	0.54	2.4	185.	SILTY SAND
1.80	-0.39	3.94	1.09		35.	0.97						0.68	2.9	56.	SILT
2.00	-0.59	3.79	0.31		10.	0.95	0.12					0.67	2.7	15.	MUD
2.20	-0.79	2.43	0.22	0.32	5.	0.65	0.07					0.35	1.4	5.	MUD
2.40	-0.99	2.28	1.72	0.11	36.	0.75		3.7	26.0	0.38	21.7	0.62	2.3	40.	SANDY SILT
2.60	-1.19	2.79	0.54	0.49	15.	0.74	0.09					0.47	1.7	17.	SILTY CLAY
2.80	-1.39	3.92	5.02	0.03	200.	0.57		31.2	40.7	0.48	38.0	0.65	2.2	337.	SAND
3.00	-1.59	5.71	3.35	0.02	204.	0.76		41.0	41.5	0.51	38.9	1.24	4.0	412.	SAND
3.20	-1.79	3.81	2.32	0.04	99.	0.64		23.7	38.2	0.52	35.5	0.82	2.5	161.	SILTY SAND
3.40	-1.99	1.61	4.01	-0.00	76.	0.43		16.4	36.1	0.54	33.3	0.33	1.0	69.	SAND
3.60	-2.19	1.86	0.82		19.	0.51						0.31	0.9	16.	CLAYEY SILT
3.80	-2.39	1.89	0.22	0.28	5.	0.51	0.07					0.33	0.9	4.	MUD
4.00	-2.59	2.77	0.06	0.59	2.	0.73	0.12					0.62	1.7	3.	MUD
4.20	-2.79	3.40	0.24	0.59	11.	0.87	0.16					0.87	2.3	15.	MUD
4.40	-2.99	3.70	0.20	0.69	10.	0.93	0.19					1.02	2.6	15.	MUD
4.60	-3.19	3.65	0.24	0.70	12.	0.92	0.19					1.02	2.6	18.	CLAY
4.80	-3.39	3.66	0.20	0.71	10.	0.92	0.19					1.05	2.6	15.	MUD
5.00	-3.59	4.07	4.08	-0.00	244.	0.62		40.8	39.9	0.70	37.8	1.06	2.5	419.	SAND
5.20	-3.79	4.21	3.28	-0.01	210.	0.65		38.9	39.3	0.72	37.2	1.22	2.8	368.	SILTY SAND
5.40	-3.99	3.32	3.33	-0.01	174.	0.54		38.2	39.3	0.74	37.2	0.87	1.9	268.	SAND
5.60	-4.19	2.97	3.77	-0.01	183.	0.48		43.7	40.2	0.77	38.2	0.70	1.5	264.	SAND
5.80	-4.39	4.01	2.89	-0.00	195.	0.61		45.7	39.8	0.80	37.8	1.21	2.5	332.	SILTY SAND
6.00	-4.59	4.23	3.96	-0.01	292.	0.45		95.5	44.3	0.85	42.7	0.79	1.6	512.	SAND
6.20	-4.79	6.10	2.95	-0.00	325.	0.70		103.9	43.8	0.88	42.2	1.93	3.7	672.	SILTY SAND
6.40	-4.99	5.34	2.63	-0.00	262.	0.72		69.4	41.4	0.89	39.7	1.94	3.6	508.	SILTY SAND
6.60	-5.19	4.67	2.64	-0.00	238.	0.71		49.4	39.2	0.90	37.4	1.84	3.3	433.	SILTY SAND
6.80	-5.39	5.03	1.98	0.01	197.	0.78		44.7	38.2	0.93	36.4	2.25	3.9	367.	SILTY SAND
7.00	-5.59	3.37	3.38	-0.00	233.	0.59		41.8	38.1	0.95	36.4	1.25	2.1	362.	SAND
7.20	-5.79	4.80	3.33	0.00	337.	0.74		51.1	38.8	0.99	37.1	2.15	3.6	628.	SAND
7.40	-5.99	2.97	3.35	0.00	215.	0.30		106.2	44.3	1.06	43.0	0.45	0.7	311.	SAND
7.60	-6.19	6.47	3.46	-0.00	498.	0.55		206.9	46.6	1.11	45.5	1.66	2.6	1056.	SAND
7.80	-6.39	6.55	3.04	-0.00	456.	0.75		139.5	43.9	1.12	42.7	2.78	4.2	973.	SILTY SAND
8.00	-6.59	4.75	2.18	-0.00	244.	0.82		34.9	35.5	1.07	33.8	2.75	4.1	442.	SILTY SAND
8.20	-6.79	2.99	0.38	0.57	27.	0.78	0.25					1.30	1.9	34.	SILTY CLAY
8.40	-6.99	3.25	0.26	0.70	20.	0.84	0.28					1.50	2.1	27.	CLAY
8.60	-7.19	3.08	0.22	0.69	17.	0.80	0.27					1.40	2.0	22.	CLAY
8.80	-7.39	2.54	0.52	0.44	34.	0.68	0.22					1.06	1.5	37.	SILTY CLAY
9.00	-7.59	2.94	0.23	0.62	17.	0.77	0.26					1.35	1.8	21.	CLAY
9.20	-7.79	2.46	0.14	0.49	9.	0.66	0.21					1.03	1.4	10.	MUD
9.40	-7.99	1.57	3.38	-0.02	140.	0.56		17.1	30.2	1.15	28.5	1.04	1.4	124.	SAND
9.60	-8.19	2.00	2.15	0.00	116.	0.52		28.8	34.0	1.21	32.5	1.09	1.4	117.	SILTY SAND
9.80	-8.39	2.12	2.50	-0.01	146.	0.59		21.6	31.6	1.21	30.0	1.33	1.7	161.	SILTY SAND
10.00	-8.59	1.32	1.12	-0.06	42.	0.34						0.42	0.5	35.	SILT
10.20	-8.79	1.54	2.69	0.00	118.	0.55		18.9	30.4	1.24	28.9	1.09	1.3	100.	SILTY SAND
10.40	-8.99	1.34	4.08	-0.01	158.	0.46		27.6	33.3	1.29	31.9	0.84	1.0	134.	SAND
10.60	-9.19	1.93	2.63	0.01	149.	0.52		31.2	33.9	1.33	32.6	1.15	1.4	154.	SILTY SAND
10.80	-9.39	1.76	1.17	-0.07	62.	0.48						0.71	0.8	52.	SILT
11.00	-9.59	1.84	1.55	-0.00	87.	0.75		9.3	23.8	1.23	22.1	1.77	2.0	76.	SANDY SILT
11.20	-9.79	1.26	1.54	-0.01	60.	0.64		11.1	25.4	1.27	23.7	1.26	1.4	51.	SANDY SILT
11.40	-9.99	2.08	0.31	0.32	20.	0.57	0.21					0.96	1.1	18.	CLAY
11.60	-10.19	3.02	0.38	0.63	36.	0.79	0.34					1.74	1.9	46.	SILTY CLAY
11.80	-10.39	3.08	0.36	0.66	36.	0.80	0.35					1.82	2.0	46.	SILTY CLAY
12.00	-10.59	3.30	0.32	0.68	35.	0.85	0.39					2.06	2.2	47.	CLAY
12.20	-10.79	3.02	0.33	0.70	33.	0.79	0.35					1.82	1.9	42.	CLAY
12.40	-10.99	2.96	0.32	0.71	32.	0.78	0.35					1.79	1.8	40.	CLAY
12.60	-11.19	3.12	0.31	0.80	33.	0.81	0.38					1.97	2.0	43.	CLAY
12.80	-11.39	2.95	0.36	0.69	36.	0.77	0.36					1.83	1.8	46.	SILTY CLAY

CONTINUED ON NEXT PAGE

Table J.7 continued

DILATOMETER DATA LISTING & INTERPRETATION (BASED ON THE 1988 DILATOMETER MANUAL)
University of Florida
JOB FILE: UF Pile Freeze
LOCATION: Vilano West, NW of Pile
SNDG.BY : P.Bullock
ANAL.BY : P.Bullock/T.Esin

SNDG. NO. FRZ007
PAGE 4
FILE NO. : 866

SNDG.DATE: 08/24/98
ANAL.DATE: 11/05/98

ANALYSIS PARAMETERS: LO RANGE = 9.80 BARS ROD DIAM. = 3.57 CM BL.THICK. = 15.0 MM SU FACTOR = 1.00
SURF.ELEV. = 1.41 M LO GAGE 0 = 0.02 BARS FR.RED.DIA. = 3.57 CM BL.WIDTH = 96.0 MM PHI FACTOR = 1.00
WATER DEPTH = 0.91 M HI GAGE 0 = 0.02 BARS LIN.ROD WT. = 6.50 KGF/M DELTA-A = 0.13 BARS OCR FACTOR = 1.00
SP.GR.WATER = 1.026 CAL GAGE 0 = 0.02 BARS DELTA/PHI = 0.50 DELTA-B = 0.39 BARS M FACTOR = 1.00
MAX SU ID = 0.60 SU OPTION = MARCHETTI MIN PHI ID = 1.20 OCR OPTION= MARCHETTI KO FACTOR = 1.00
UNIT CONVERSIONS: 1 BAR = 1.019 KGF/CM2 = 100 KPA = 1.044 TSF = 14.51 PSI 1 M = 3.2808 FT

Z (M)	ELEV (M)	KD	ID	UD	ED (BAR)	KO	SU (BAR)	QD (BAR)	PHI (DEG)	SIGFF (BAR)	PHIO (DEG)	PC (BAR)	OCR	M (BAR)	SOIL TYPE
13.00	-11.59	2.65	0.38	0.67	36.	0.71	0.32					1.56	1.5	41.	SILTY CLAY
13.20	-11.79	2.63	0.38	0.66	36.	0.70	0.32					1.57	1.5	40.	SILTY CLAY
13.40	-11.99	2.72	0.36	0.66	35.	0.72	0.34					1.68	1.6	41.	SILTY CLAY
13.60	-12.19	2.89	0.31	0.66	33.	0.76	0.37					1.87	1.8	41.	CLAY
13.80	-12.39	3.00	0.32	0.66	36.	0.78	0.39					2.00	1.9	45.	CLAY
14.00	-12.59	2.98	0.32	0.69	36.	0.78	0.39					2.01	1.9	45.	CLAY
14.20	-12.79	2.99	0.35	0.66	39.	0.78	0.40					2.05	1.9	50.	CLAY
14.40	-12.99	2.93	0.32	0.70	36.	0.77	0.39					2.01	1.8	45.	CLAY
14.60	-13.19	2.91	0.33	0.64	37.	0.77	0.39					2.01	1.8	46.	CLAY
14.80	-13.39	2.98	0.31	0.67	36.	0.78	0.41					2.11	1.9	45.	CLAY
15.00	-13.59	2.89	0.35	0.69	40.	0.76	0.40					2.04	1.8	49.	CLAY
15.20	-13.79	3.02	0.79	0.36	96.	0.79						2.21	1.9	124.	CLAYEY SILT
15.40	-13.99	2.92	0.28	0.71	34.	0.77	0.42					2.12	1.8	42.	CLAY
15.60	-14.19	2.83	0.30	0.68	35.	0.75	0.40					2.04	1.7	43.	CLAY
15.80	-14.39	1.94	1.61	0.03	130.	0.85		7.7	19.5	1.60	18.2	3.03	2.5	121.	SANDY SILT
16.00	-14.59	1.45	1.24	0.05	76.	0.67		14.7	25.1	1.73	24.1	1.93	1.6	64.	SANDY SILT
16.20	-14.79	2.21	0.27	0.55	25.	0.60	0.31					1.44	1.2	24.	CLAY
16.40	-14.99	2.13	0.77	0.24	71.	0.58						1.37	1.1	66.	CLAYEY SILT
16.60	-15.19	2.71	0.82	0.20	97.	0.72						2.02	1.6	115.	CLAYEY SILT
16.80	-15.39	2.23	0.37	0.30	37.	0.60	0.32					1.50	1.2	35.	SILTY CLAY
17.00	-15.59	2.70	0.65	0.36	78.	0.72						2.05	1.6	90.	CLAYEY SILT
17.20	-15.79	3.38	0.43	0.58	66.	0.86	0.55					2.94	2.3	91.	SILTY CLAY
17.40	-15.99	3.40	1.53	0.04	237.	0.98		11.5	22.0	1.80	21.0	5.79	4.4	346.	SANDY SILT
17.60	-16.19	3.17	2.01	-0.03	294.	0.33		228.5	44.2	2.26	43.9	1.14	0.9	419.	SILTY SAND
17.80	-16.39	4.14	1.99	-0.01	386.	0.49		219.5	43.3	2.27	43.0	2.44	1.8	647.	SILTY SAND
18.00	-16.59	1.81	2.67	-0.03	228.	0.42		77.8	37.2	2.19	36.8	1.40	1.0	223.	SILTY SAND
18.20	-16.79	2.49	3.20	-0.02	383.	0.45		109.4	39.2	2.26	38.9	1.75	1.3	494.	SILTY SAND
18.40	-16.99	3.45	2.60	-0.01	436.	0.55		127.1	39.8	2.30	39.5	2.74	2.0	675.	SILTY SAND
18.60	-17.19	3.13	2.87	-0.02	443.	0.50		132.6	40.1	2.34	39.8	2.32	1.6	657.	SILTY SAND
18.80	-17.39	3.29	2.41	-0.02	396.	0.56		113.1	38.8	2.34	38.6	2.82	2.0	591.	SILTY SAND
19.00	-17.59	2.64	2.56	-0.02	343.	0.49		106.3	38.6	2.37	38.4	2.13	1.5	448.	SILTY SAND
19.20	-17.79	2.39	2.80	-0.02	343.	0.47		99.7	38.2	2.39	37.9	1.95	1.3	425.	SILTY SAND
19.40	-17.99	2.58	2.33	-0.02	312.	0.51		90.7	37.3	2.40	37.1	2.32	1.6	395.	SILTY SAND
19.60	-18.19	2.00	2.64	-0.02	278.	0.45		86.6	37.2	2.42	37.0	1.74	1.2	296.	SILTY SAND

END OF SOUNDING

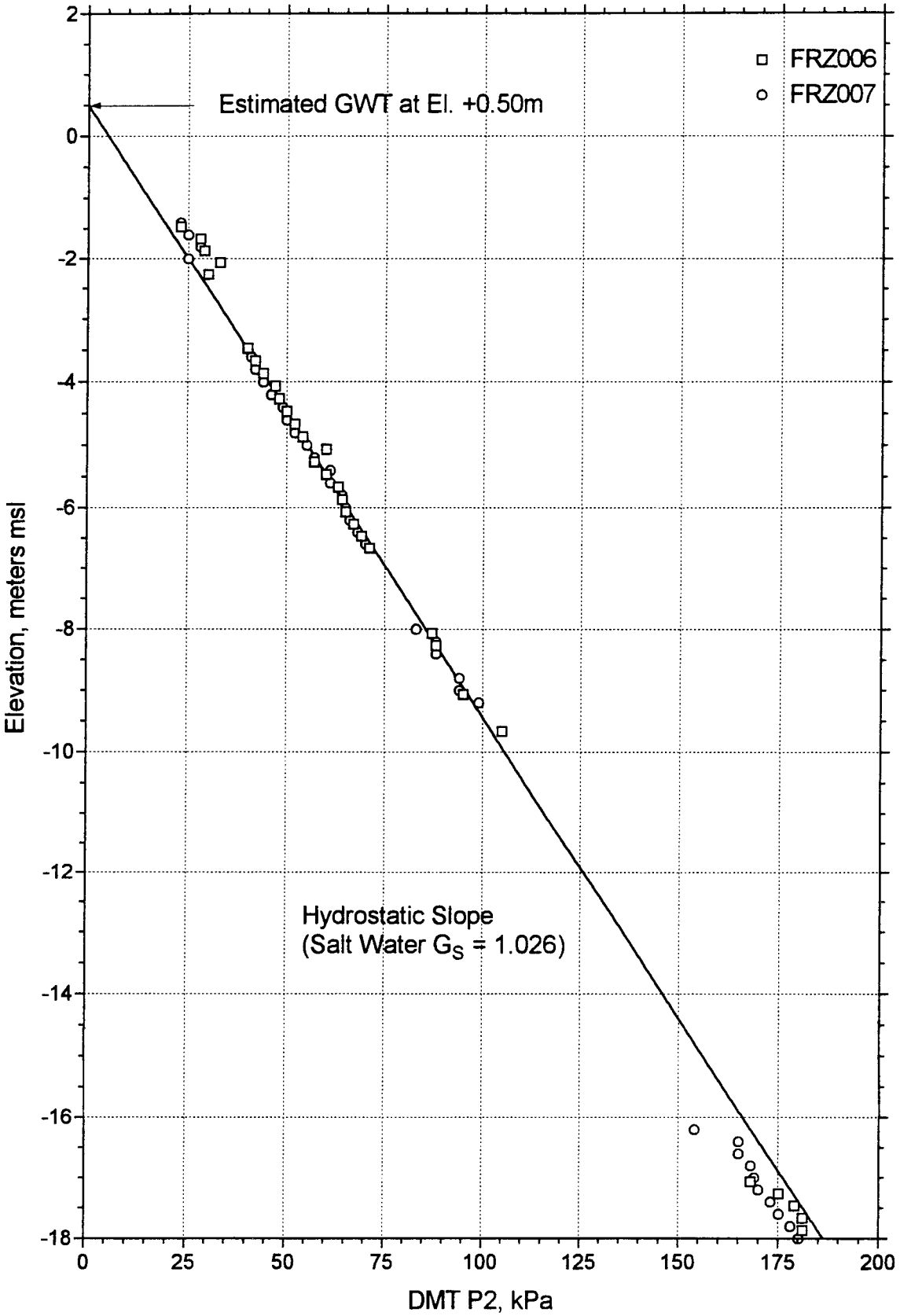


Figure J.22 DMT P2 Profile at Vilano West ($I_D \geq 2.0$)

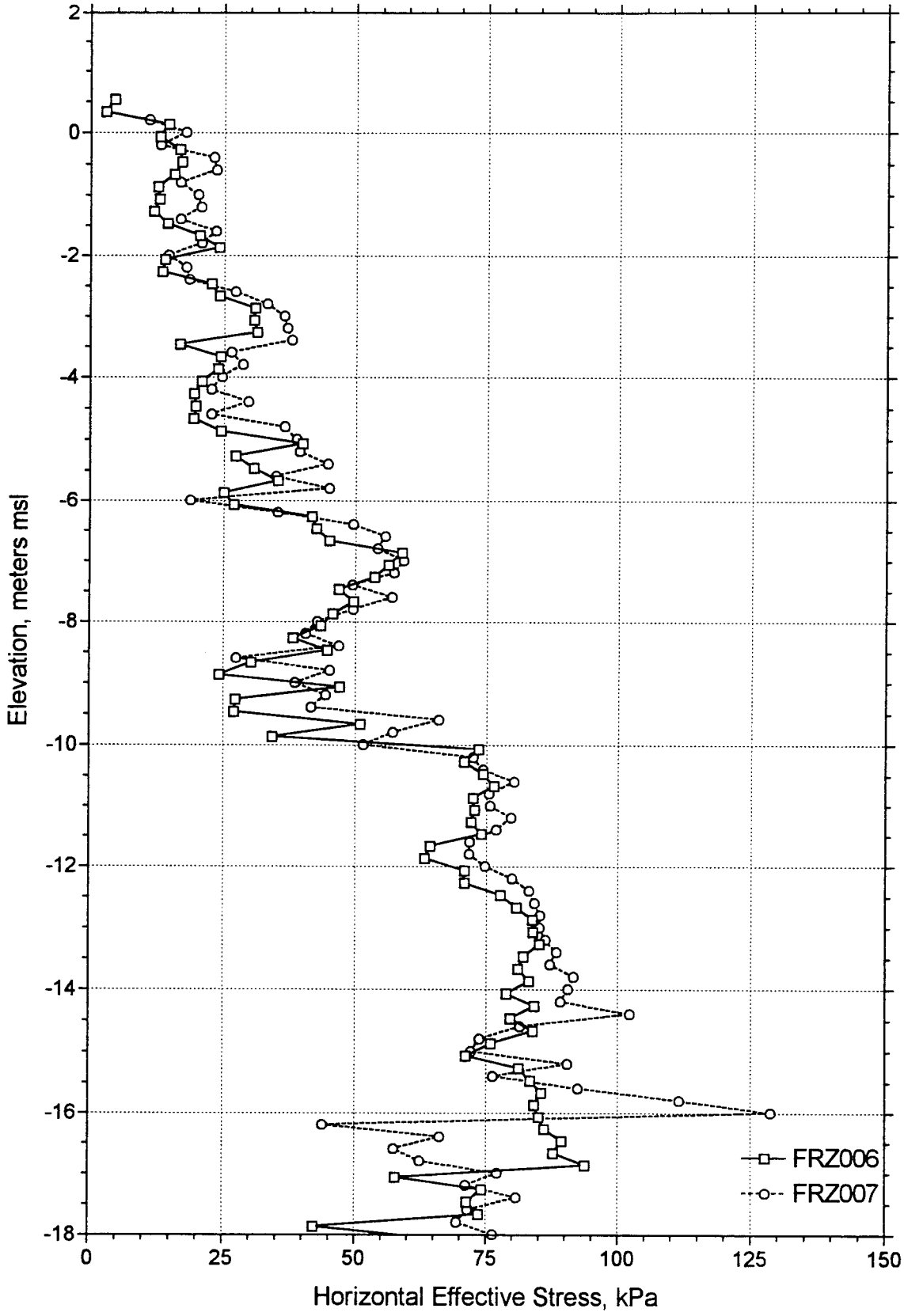


Figure J.23 Horizontal Effective Stress Profile at Vilano West

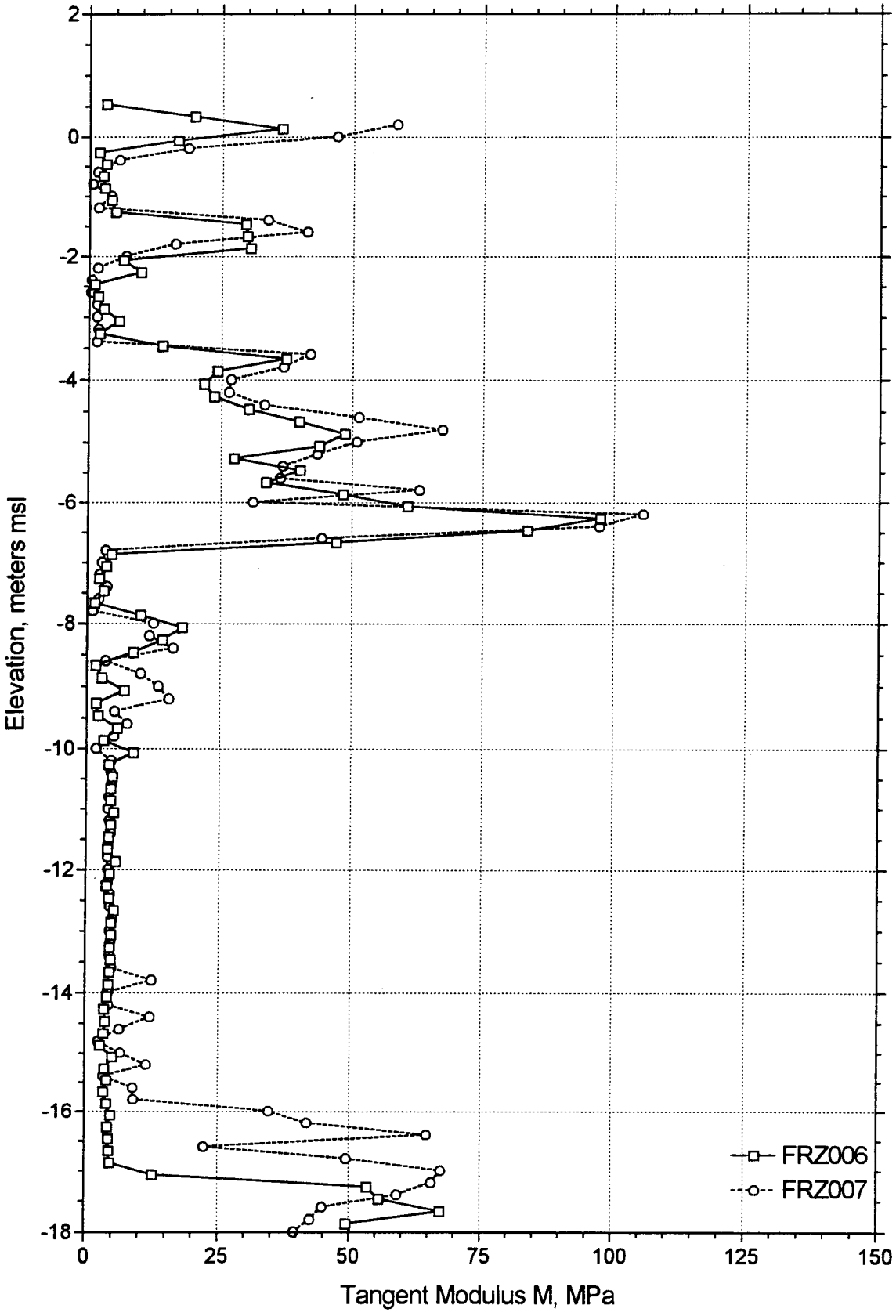


Figure J.24 Tangent Modulus Profile at Vilano West

Table J.8 DMT A-Dissipation Data at VLW

FRZ006: DMT A-Dissipation, El. -2.56 m (3.50 m depth)
0.603 kN Initial Thrust
0.655 kN Final Thrust
1.09 Final/Initial

Elapsed Time (ET) hh:mm:ss	min	sqrt(ET) min	A Rdg bars	Gage Zero bars	DA bars	A' kPa
00:00:51	0.85	0.92	1.200	0.020	0.140	132.8
00:01:53	1.88	1.37	1.105	0.020	0.140	123.4
00:03:07	3.12	1.77	1.045	0.020	0.140	117.4
00:04:23	4.38	2.09	1.000	0.020	0.140	113.0
00:09:37	9.62	3.10	0.900	0.020	0.140	103.0
00:15:39	15.65	3.96	0.845	0.020	0.140	97.5
00:31:52	31.87	5.65	0.785	0.020	0.140	91.5
01:00:43	60.72	7.79	0.750	0.020	0.140	88.0
01:59:23	119.38	10.93	0.740	0.020	0.140	87.0
03:41:15	221.25	14.87	0.710	0.020	0.140	84.1

DA and A' values corrected for Gage Zero & Calibration

FRZ006: DMT A-Dissipation, El. -6.56 m (7.50 m depth)
14.879 kN Initial Thrust
10.464 kN Final Thrust
0.70 Final/Initial

Elapsed Time (ET) hh:mm:ss	min	sqrt(ET) min	A Rdg bars	Gage Zero bars	DA bars	A' kPa
00:00:40	0.67	0.82	3.580	0.020	0.140	366.3
00:01:55	1.92	1.38	3.535	0.020	0.140	361.9
00:03:01	3.02	1.74	3.470	0.020	0.140	355.6
00:04:15	4.25	2.06	3.410	0.020	0.140	349.8
00:10:28	10.47	3.24	3.450	0.020	0.140	353.7
00:16:39	16.65	4.08	3.400	0.020	0.140	348.8
00:31:13	31.22	5.59	3.350	0.020	0.140	343.9
00:59:56	59.93	7.74	3.285	0.020	0.140	337.6
02:00:34	120.57	10.98	3.195	0.020	0.140	328.8
04:20:25	260.42	16.14	3.100	0.020	0.140	319.5
12:20:46	740.77	27.22	3.060	0.020	0.140	315.6

DA and A' values corrected for Gage Zero & Calibration

FRZ006: DMT A-Dissipation, El. -8.16 m (9.10 m depth)
5.878 kN Initial Thrust
5.660 kN Final Thrust
0.96 Final/Initial

Elapsed Time (ET) hh:mm:ss	min	sqrt(ET) min	A Rdg bars	Gage Zero bars	DA bars	A' kPa
00:00:36	0.60	0.77	2.570	0.020	0.140	267.7
00:01:37	1.62	1.27	2.520	0.020	0.140	262.8
00:02:40	2.67	1.63	2.455	0.020	0.140	256.4
00:04:03	4.05	2.01	2.420	0.020	0.140	253.0
00:06:41	6.68	2.59	2.400	0.020	0.140	251.0
00:09:15	9.25	3.04	2.365	0.020	0.140	247.6
00:16:29	16.48	4.06	2.335	0.020	0.140	244.6
00:32:57	32.95	5.74	2.310	0.020	0.140	242.2
01:01:26	61.43	7.84	2.295	0.020	0.140	240.7
01:57:41	117.68	10.85	2.270	0.020	0.140	238.3

DA and A' values corrected for Gage Zero & Calibration

Table J.8 continued

FRZ006: DMT A-Dissipation, El. -9.76 m (10.70 m depth) — 2.114 kN Initial Thrust; 2.344 kN Final Thrust; 1.11 Final/Initial

Elapsed Time hh:mm:ss	(ET) min	sqrt(ET) min	A Rdg bars	Gage Zero bars	DA bars	A' kPa
00:00:54	0.90	0.95	2.110	0.020	0.140	222.6
00:01:54	1.90	1.38	1.980	0.020	0.140	209.8
00:03:07	3.12	1.77	1.920	0.020	0.140	203.9
00:04:22	4.37	2.09	1.890	0.020	0.140	200.9
00:08:27	8.45	2.91	1.875	0.020	0.140	199.5
00:15:51	15.85	3.98	1.855	0.020	0.140	197.5
00:30:26	30.43	5.52	1.845	0.020	0.140	196.5
00:59:51	59.85	7.74	1.840	0.020	0.140	196.0
01:53:32	113.53	10.66	1.830	0.020	0.140	195.0

DA and A' values corrected for Gage Zero & Calibration

FRZ006: DMT A-Dissipation, El. -10.96 m (11.90 m depth) — 1.255 kN Initial Thrust; 1.646 kN Final Thrust; 1.31 Final/Initial

Elapsed Time hh:mm:ss	(ET) min	sqrt(ET) min	A Rdg bars	Gage Zero bars	DA bars	A' kPa
00:00:58	0.97	0.98	3.930	0.020	0.150	406.0
00:02:13	2.22	1.49	3.840	0.020	0.150	397.0
00:03:30	3.50	1.87	3.790	0.020	0.150	392.0
00:05:06	5.10	2.26	3.755	0.020	0.150	388.5
00:08:29	8.48	2.91	3.710	0.020	0.150	384.0
00:15:52	15.87	3.98	3.645	0.020	0.150	377.5
00:32:47	32.78	5.73	3.530	0.020	0.150	366.0
01:04:26	64.43	8.03	3.410	0.020	0.150	354.0
01:55:27	115.45	10.74	3.265	0.020	0.150	339.5
04:00:47	240.78	15.52	3.030	0.020	0.150	316.0
08:03:27	483.45	21.99	2.810	0.020	0.150	294.0
12:15:36	735.60	27.12	2.660	0.020	0.150	279.0
21:06:28	1266.47	35.59	2.510	0.020	0.150	264.0

DA and A' values corrected for Gage Zero

FRZ006: DMT A-Dissipation, El. -12.36 m (13.30 m depth) — 1.000 kN Initial Thrust; 1.690 kN Final Thrust; 1.69 Final/Initial

Elapsed Time hh:mm:ss	(ET) min	sqrt(ET) min	A Rdg bars	Gage Zero bars	DA bars	A' kPa
00:01:03	1.05	1.02	4.030	0.020	0.150	416.0
00:02:23	2.38	1.54	3.955	0.020	0.150	408.5
00:03:34	3.57	1.89	3.915	0.020	0.150	404.5
00:05:00	5.00	2.24	3.880	0.020	0.150	401.0
00:09:09	9.15	3.02	3.830	0.020	0.150	396.0
00:16:19	16.32	4.04	3.770	0.020	0.150	390.0
00:32:26	32.43	5.70	3.670	0.020	0.150	380.0
00:59:51	59.85	7.74	3.540	0.020	0.150	367.0
01:56:50	116.83	10.81	3.380	0.020	0.150	351.0
03:59:04	239.07	15.46	3.175	0.020	0.150	330.5
08:07:08	487.13	22.07	2.955	0.020	0.150	308.5
14:43:51	883.85	29.73	2.790	0.020	0.150	292.0
23:27:50	1407.83	37.52	2.680	0.020	0.150	281.0
28:00:42	1680.70	41.00	2.645	0.020	0.150	277.5

DA and A' values corrected for Gage Zero

Table J.8 continued

FRZ006: DMT A-Dissipation, El. -13.56 m (14.50 m depth)
1.351 kN Initial Thrust
2.092 kN Final Thrust
1.55 Final/Initial

Elapsed Time hh:mm:ss	(ET) min	sqrt(ET) min	A Rdg bars	Gage Zero bars	DA bars	A' kPa
00:00:57	0.95	0.97	4.430	0.020	0.150	456.0
00:02:04	2.07	1.44	4.340	0.020	0.150	447.0
00:03:32	3.53	1.88	4.290	0.020	0.150	442.0
00:04:51	4.85	2.20	4.265	0.020	0.150	439.5
00:08:45	8.75	2.96	4.205	0.020	0.150	433.5
00:16:10	16.17	4.02	4.130	0.020	0.150	426.0
00:30:20	30.33	5.51	4.025	0.020	0.150	415.5
01:00:26	60.43	7.77	3.880	0.020	0.150	401.0
02:09:51	129.85	11.40	3.680	0.020	0.150	381.0
04:03:57	243.95	15.62	3.480	0.020	0.150	361.0
08:04:15	484.25	22.01	3.230	0.020	0.150	336.0
17:06:20	1026.33	32.04	3.020	0.020	0.150	315.0

DA and A' values corrected for Gage Zero

FRZ006: DMT A-Dissipation, El. -14.96 m (15.90 m depth)
1.225 kN Initial Thrust
1.968 kN Final Thrust
1.61 Final/Initial

Elapsed Time hh:mm:ss	(ET) min	sqrt(ET) min	A Rdg bars	Gage Zero bars	DA bars	A' kPa
00:00:34	0.57	0.75	4.140	0.020	0.150	427.0
00:01:49	1.82	1.35	4.030	0.020	0.150	416.0
00:03:05	3.08	1.76	3.980	0.020	0.150	411.0
00:04:35	4.58	2.14	3.950	0.020	0.150	408.0
00:07:02	7.03	2.65	3.945	0.020	0.150	407.5
00:09:51	9.85	3.14	3.935	0.020	0.150	406.5
00:15:54	15.90	3.99	3.905	0.020	0.150	403.5
00:30:50	30.83	5.55	3.850	0.020	0.150	398.0
01:00:02	60.03	7.75	3.740	0.020	0.150	387.0
02:00:10	120.17	10.96	3.600	0.020	0.150	373.0
04:00:20	240.33	15.50	3.470	0.020	0.150	360.0
08:07:53	487.88	22.09	3.365	0.020	0.150	349.5
14:05:15	845.25	29.07	3.320	0.020	0.150	345.0
23:21:46	1401.77	37.44	3.295	0.020	0.150	342.5

DA and A' values corrected for Gage Zero

Table J.8 continued

FRZ007: DMT A-Dissipation, El. -6.49 m (7.90 m depth)
19.503 kN Initial Thrust
14.204 kN Final Thrust
0.73 Final/Initial

Elapsed Time (ET) hh:mm:ss	ET min	sqrt(ET) min	A Rdg bars	Gage Zero bars	DA bars	A' kPa
00:00:57	0.95	0.97	5.000	0.020	0.150	513.0
00:01:55	1.92	1.38	4.890	0.020	0.150	502.0
00:02:55	2.92	1.71	4.780	0.020	0.150	491.0
00:04:02	4.03	2.01	4.675	0.020	0.150	480.5
00:08:28	8.47	2.91	4.605	0.020	0.150	473.5
00:15:36	15.60	3.95	4.560	0.020	0.150	469.0
00:31:29	31.48	5.61	4.515	0.020	0.150	464.5
00:59:22	59.37	7.70	4.405	0.020	0.150	453.5
02:03:56	123.93	11.13	4.315	0.020	0.150	444.5
04:00:23	240.38	15.50	4.315	0.020	0.150	444.5
07:57:55	477.92	21.86	4.180	0.020	0.150	431.0
14:03:02	843.03	29.04	4.145	0.020	0.150	427.5

DA and A' values corrected for Gage Zero

FRZ007: DMT A-Dissipation, El. -9.69 m (11.10 m depth)
2.640 kN Initial Thrust
2.999 kN Final Thrust
1.14 Final/Initial

Elapsed Time (ET) hh:mm:ss	ET min	sqrt(ET) min	A Rdg bars	Gage Zero bars	DA bars	A' kPa
00:00:29	0.48	0.70	2.120	0.020	0.150	225.0
00:01:23	1.38	1.18	1.935	0.020	0.150	206.5
00:02:35	2.58	1.61	1.905	0.020	0.150	203.5
00:04:06	4.10	2.02	1.895	0.020	0.150	202.5
00:06:23	6.38	2.53	1.890	0.020	0.150	202.0
00:08:20	8.33	2.89	1.880	0.020	0.150	201.0
00:17:26	17.43	4.18	1.890	0.020	0.150	202.0
00:30:11	30.18	5.49	1.890	0.020	0.150	202.0

DA and A' values corrected for Gage Zero

FRZ007: DMT A-Dissipation, El. -10.09 m (11.50 m depth)
1.479 kN Initial Thrust
2.186 kN Final Thrust
1.48 Final/Initial

Elapsed Time (ET) hh:mm:ss	ET min	sqrt(ET) min	A Rdg bars	Gage Zero bars	DA bars	A' kPa
00:01:02	1.03	1.02	3.350	0.020	0.150	348.0
00:02:03	2.05	1.43	3.205	0.020	0.150	333.5
00:03:21	3.35	1.83	3.075	0.020	0.150	320.5
00:04:41	4.68	2.16	2.960	0.020	0.150	309.0
00:07:04	7.07	2.66	2.850	0.020	0.150	298.0
00:10:29	10.48	3.24	2.760	0.020	0.150	289.0
00:16:41	16.68	4.08	2.655	0.020	0.150	278.5
00:30:11	30.18	5.49	2.545	0.020	0.150	267.5
00:59:39	59.65	7.72	2.445	0.020	0.150	257.5
01:57:38	117.63	10.85	2.380	0.020	0.150	251.0
04:22:27	262.45	16.20	2.330	0.020	0.150	246.0
08:09:13	489.22	22.12	2.300	0.020	0.150	243.0

DA and A' values corrected for Gage Zero

Table J.8 continued

FRZ007: DMT A-Dissipation, El. -12.32 m (13.70 m depth)
1.374 kN Initial Thrust
2.529 kN Final Thrust
1.84 Final/Initial

Elapsed Time hh:mm:ss	(ET) min	sqrt(ET) min	A Rdg bars	Gage Zero bars	DA bars	A' kPa
00:01:07	1.12	1.06	4.270	0.020	0.150	440.0
00:02:20	2.33	1.53	4.205	0.020	0.150	433.5
00:03:38	3.63	1.91	4.165	0.020	0.150	429.5
00:04:57	4.95	2.22	4.140	0.020	0.150	427.0
00:08:17	8.28	2.88	4.095	0.020	0.150	422.5
00:15:37	15.62	3.95	4.020	0.020	0.150	415.0
00:29:53	29.88	5.47	3.930	0.020	0.150	406.0
00:58:41	58.68	7.66	3.790	0.020	0.150	392.0
01:55:02	115.03	10.73	3.595	0.020	0.150	372.5
04:27:59	267.98	16.37	3.350	0.020	0.150	348.0
08:35:50	515.83	22.71	3.120	0.020	0.150	325.0
16:07:44	967.73	31.11	2.940	0.020	0.150	307.0
24:26:09	1466.15	38.29	2.835	0.020	0.150	296.5
37:34:32	2254.53	47.48	2.745	0.020	0.150	287.5

DA and A' values corrected for Gage Zero

FRZ007: DMT A-Dissipation, El. -14.89 m (16.30 m depth)
2.728 kN Initial Thrust
3.109 kN Final Thrust
1.14 Final/Initial

Elapsed Time hh:mm:ss	(ET) min	sqrt(ET) min	A Rdg bars	Gage Zero bars	DA bars	A' kPa
00:00:59	0.98	0.99	4.010	0.020	0.150	414.0
00:02:13	2.22	1.49	3.925	0.020	0.150	405.5
00:03:32	3.53	1.88	3.865	0.020	0.150	399.5
00:04:54	4.90	2.21	3.830	0.020	0.150	396.0
00:09:07	9.12	3.02	3.795	0.020	0.150	392.5
00:16:39	16.65	4.08	3.735	0.020	0.150	386.5
00:30:08	30.13	5.49	3.665	0.020	0.150	379.5
01:01:25	61.42	7.84	3.575	0.020	0.150	370.5
02:02:56	122.93	11.09	3.525	0.020	0.150	365.5
04:08:45	248.75	15.77	3.500	0.020	0.150	363.0
06:07:04	367.07	19.16	3.485	0.020	0.150	361.5

DA and A' values corrected for Gage Zero

FRZ007: DMT A-Dissipation, El. -15.89 m (17.30 m depth)
4.655 kN Initial Thrust
5.708 kN Final Thrust
1.23 Final/Initial

Elapsed Time hh:mm:ss	(ET) min	sqrt(ET) min	A Rdg bars	Gage Zero bars	DA bars	A' kPa
00:00:44	0.73	0.86	5.030	0.020	0.150	516.0
00:01:48	1.80	1.34	4.705	0.020	0.150	483.5
00:03:15	3.25	1.80	4.470	0.020	0.150	460.0
00:04:56	4.93	2.22	4.335	0.020	0.150	446.5
00:09:01	9.02	3.00	4.255	0.020	0.150	438.5
00:16:29	16.48	4.06	4.175	0.020	0.150	430.5
00:30:00	30.00	5.48	4.085	0.020	0.150	421.5
00:59:49	59.82	7.73	4.005	0.020	0.150	413.5
01:59:59	119.98	10.95	3.970	0.020	0.150	410.0
04:03:20	243.33	15.60	3.955	0.020	0.150	408.5
07:03:57	423.95	20.59	3.950	0.020	0.150	408.0
15:32:03	932.05	30.53	3.935	0.020	0.150	406.5

DA and A' values corrected for Gage Zero

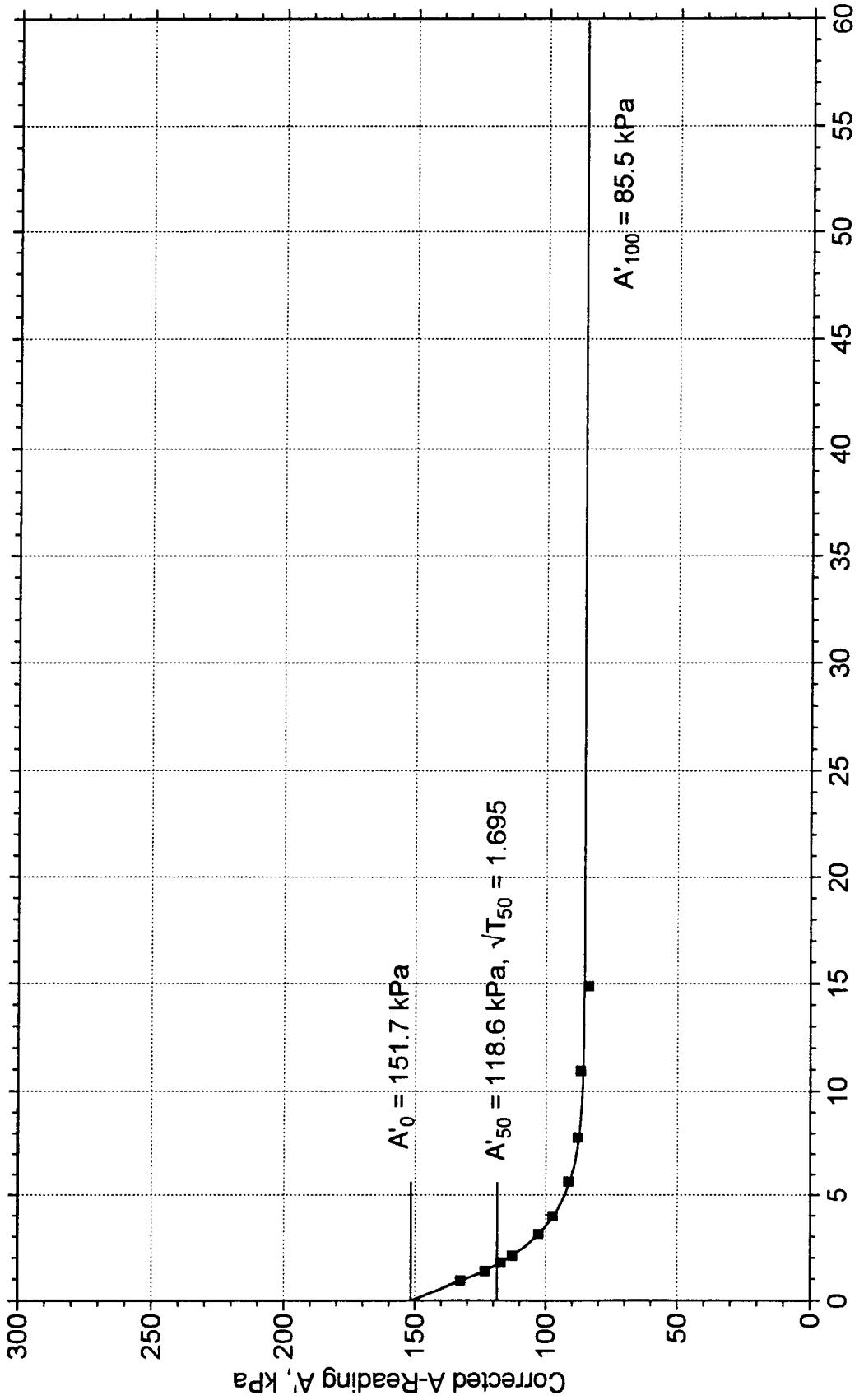


Figure J.25 DMT A-Dissipation: FRZ006, El. -2.56m

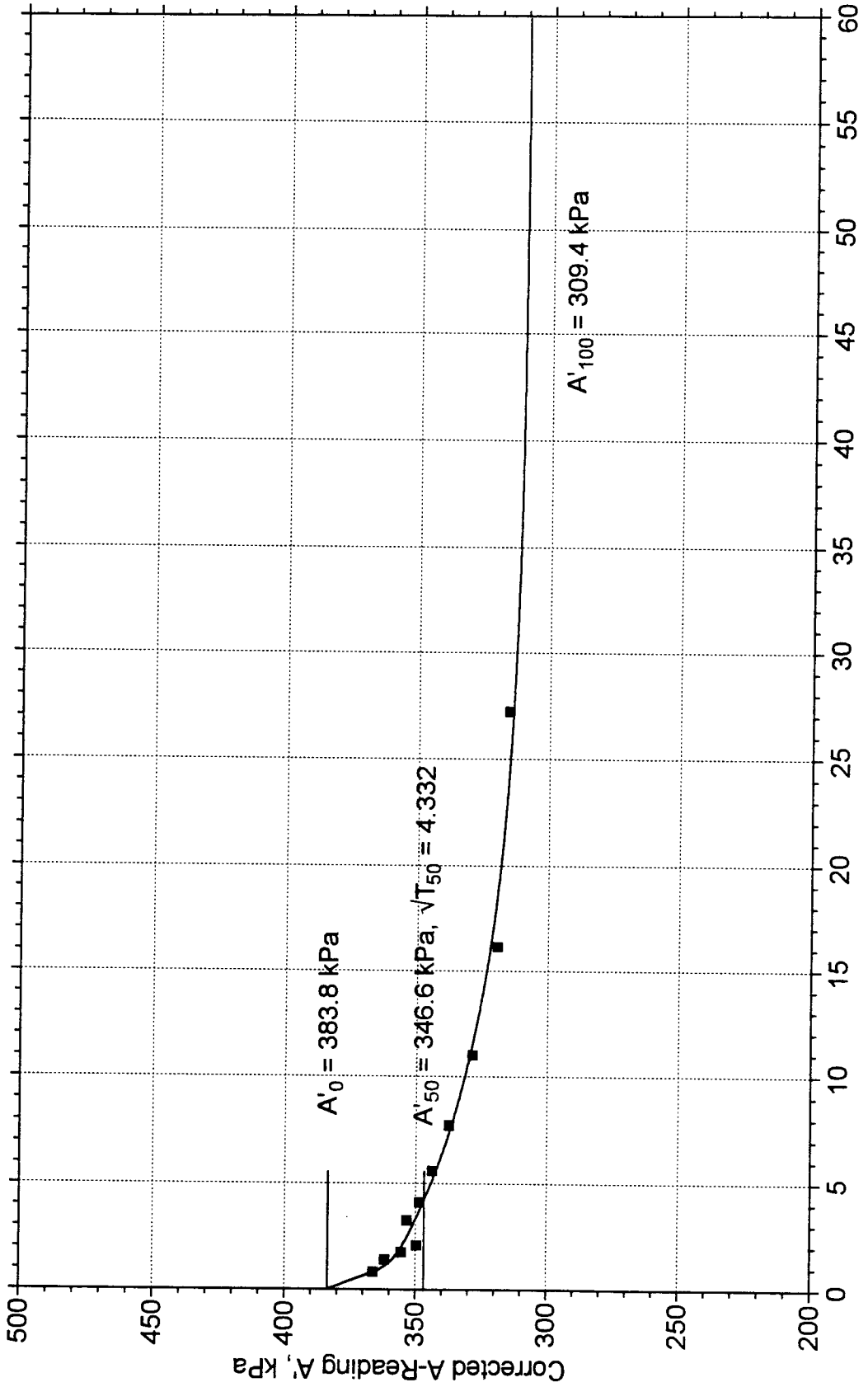


Figure J.26 DMT A-Dissipation: FRZ006, El. -6.56m

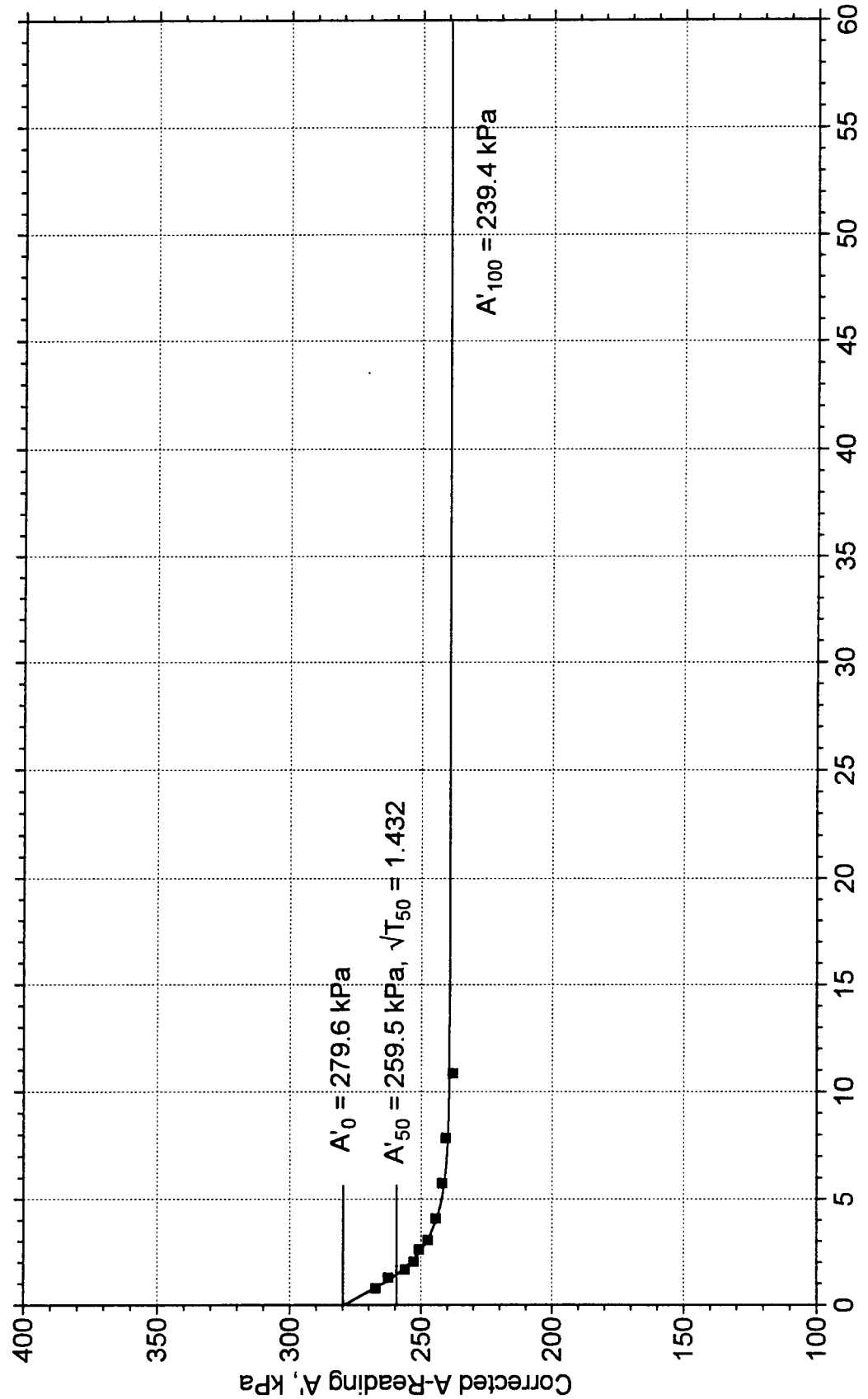


Figure J.27 DMT A-Dissipation: FRZ006, El. -8.16m

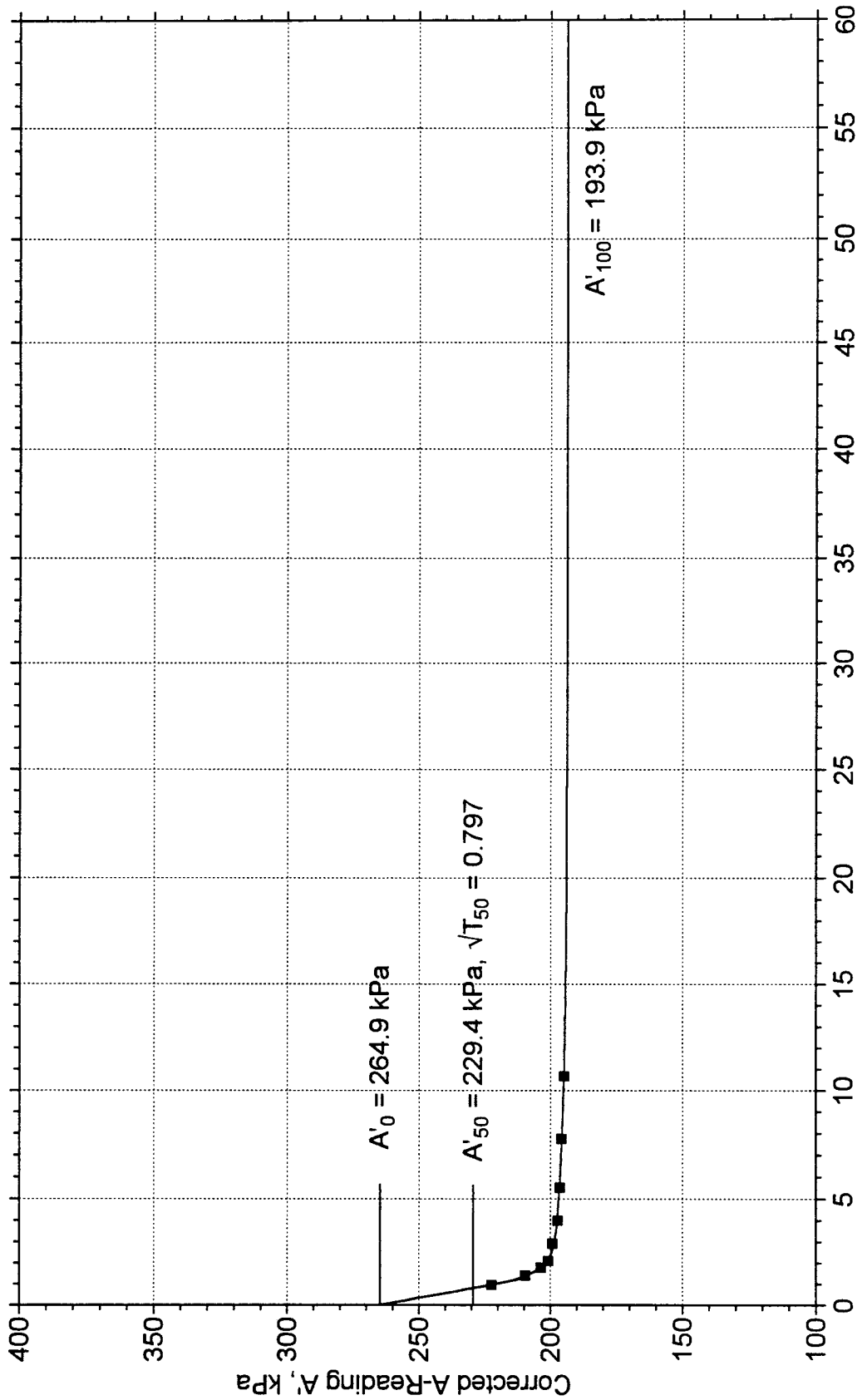


Figure J.28 DMT A-Dissipation: FRZ006, El. -9.76m

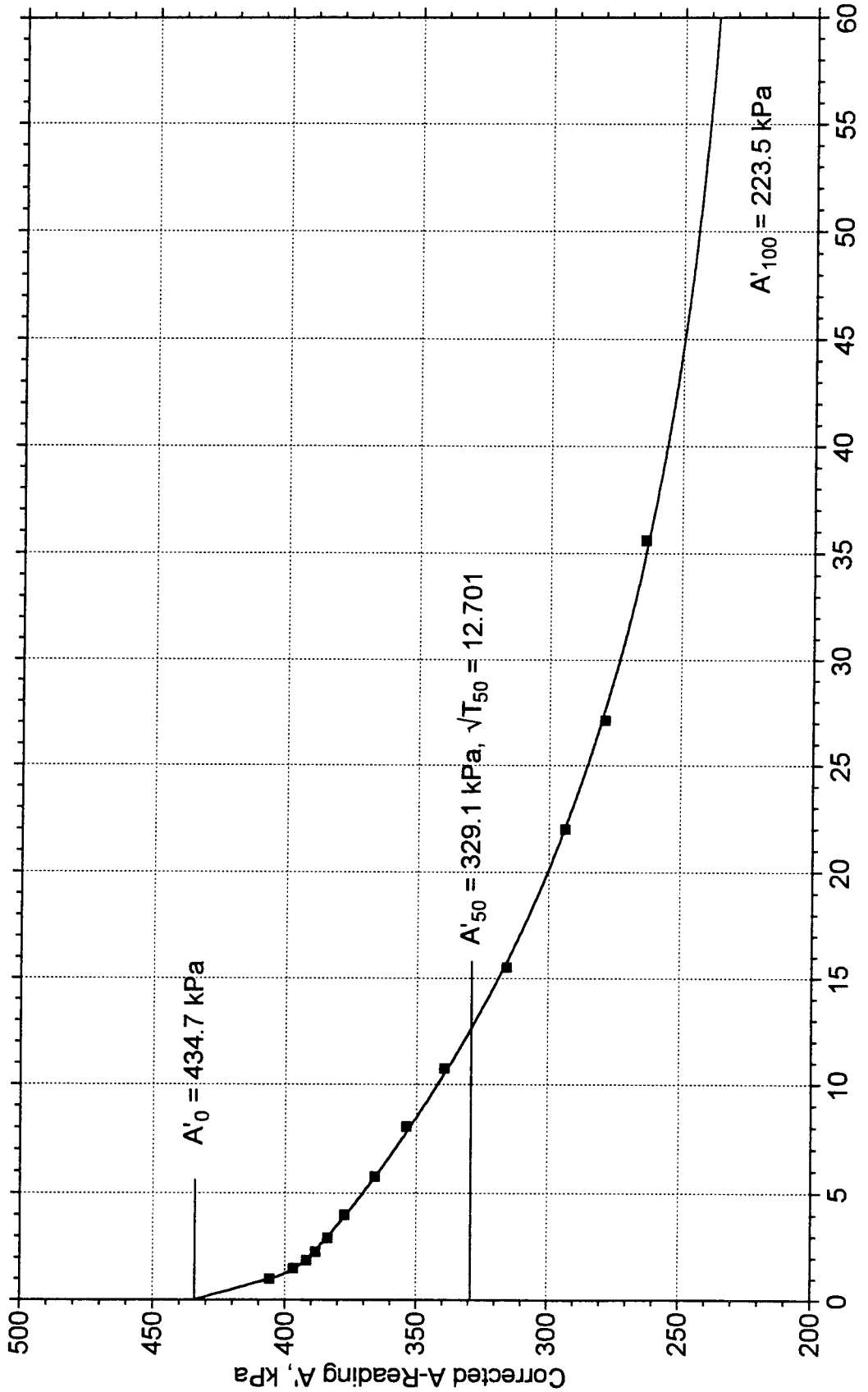


Figure J.29 DMT A-Dissipation: FRZ006, El. -10.96m

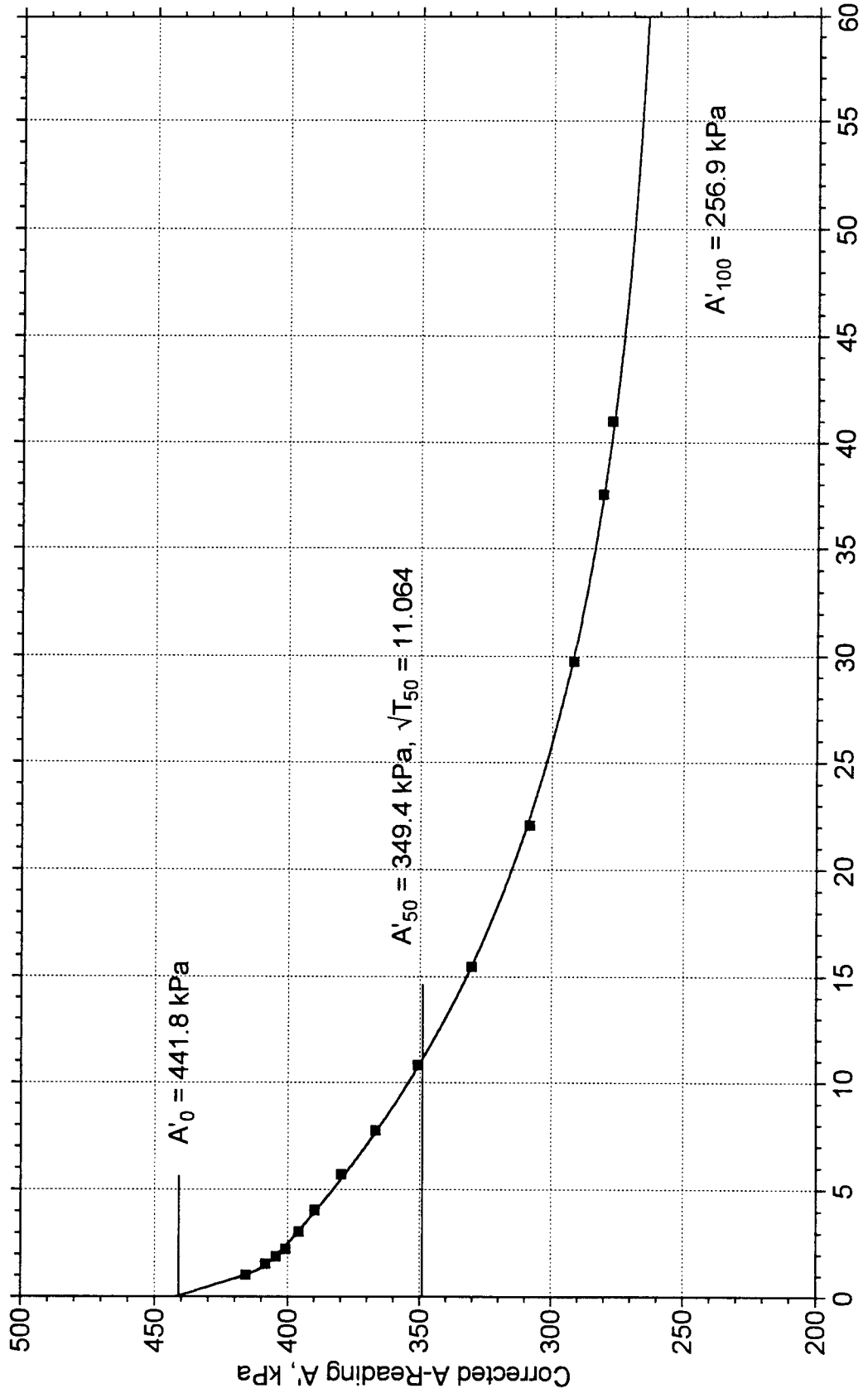


Figure J.30 DMT A-Dissipation: FRZ006, El. -12.36m

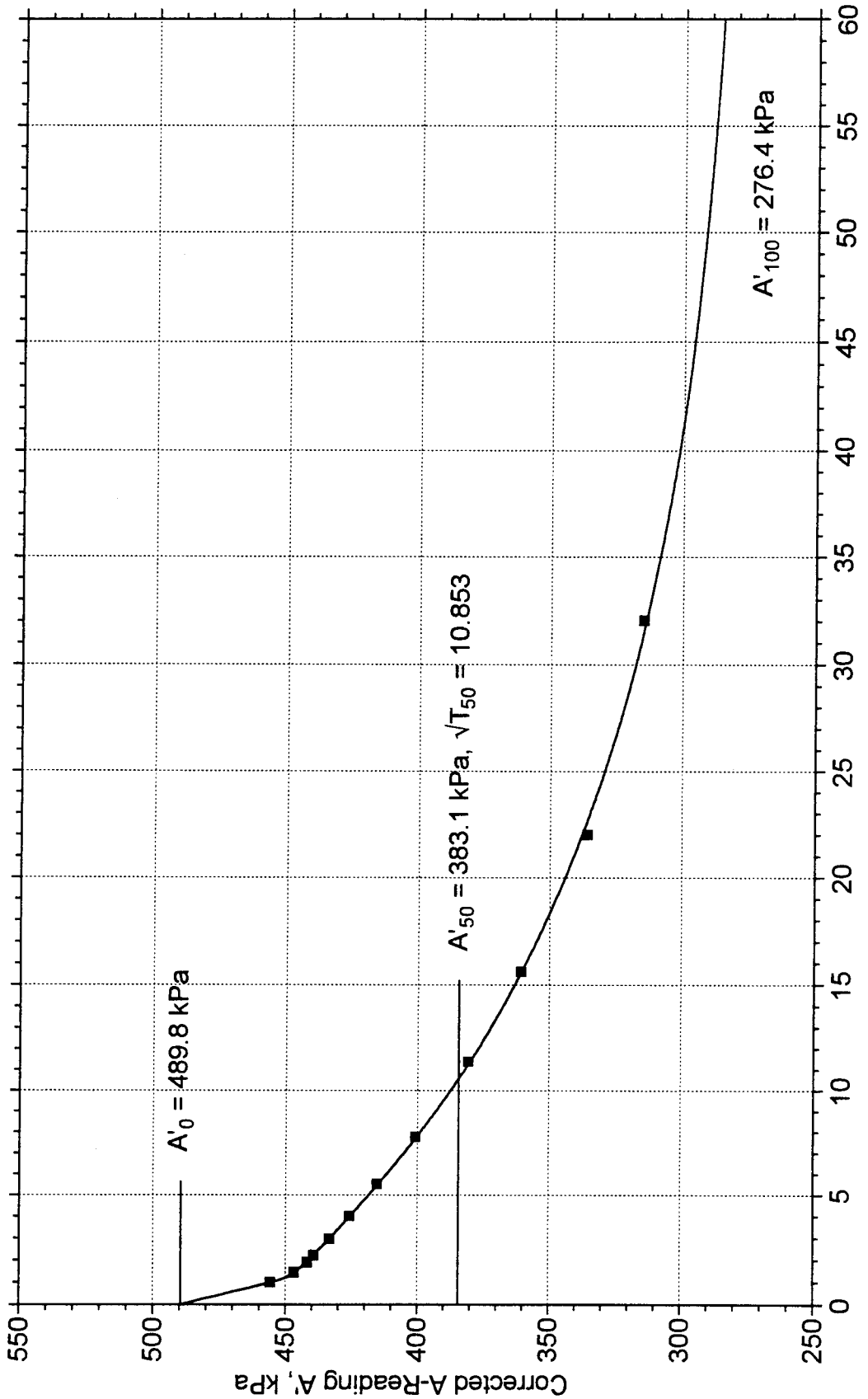


Figure J.31 DMT A-Dissipation: FRZ006, El. -13.56m

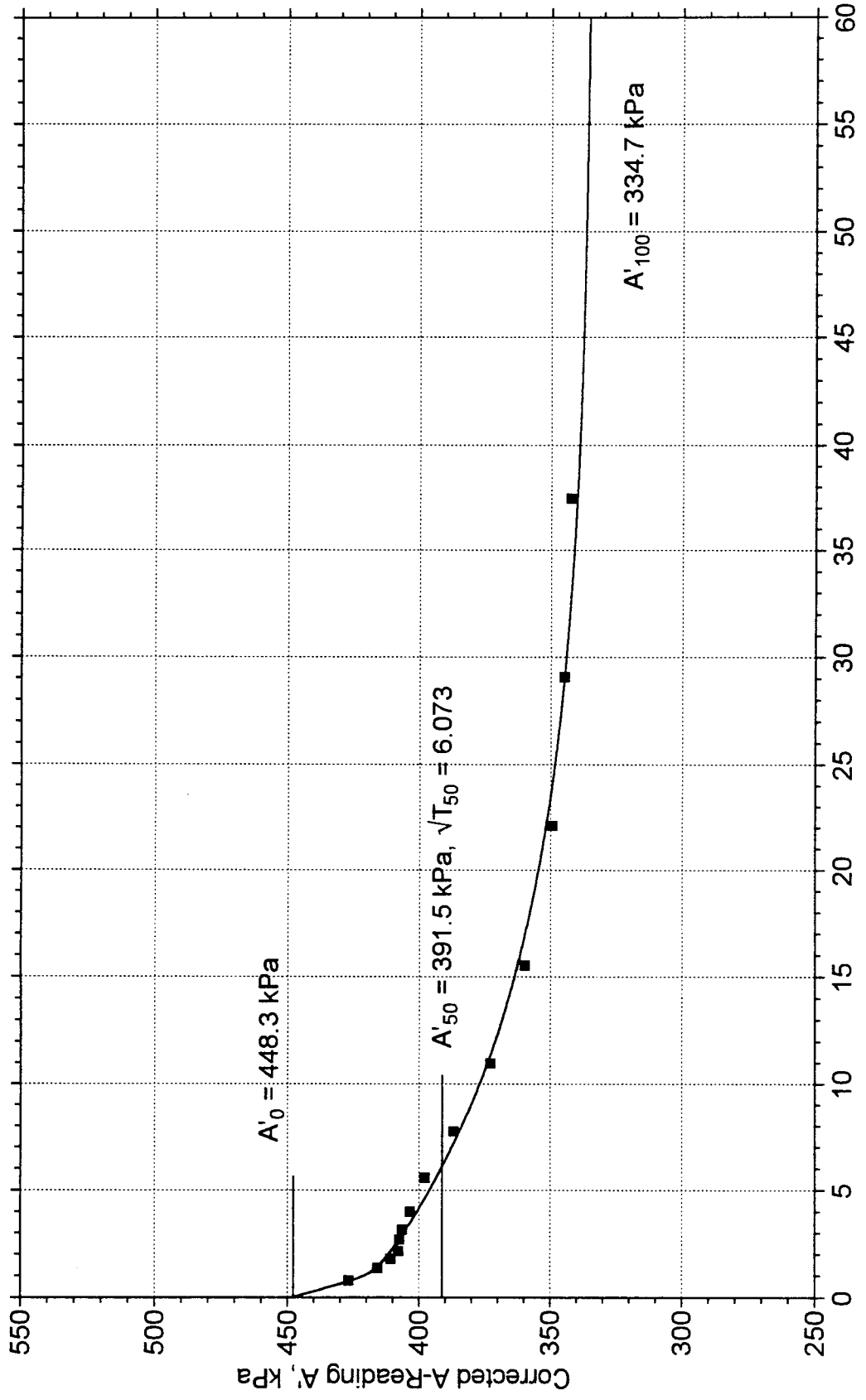


Figure J.32 DMT A-Dissipation: FRZ006, El. -14.96m

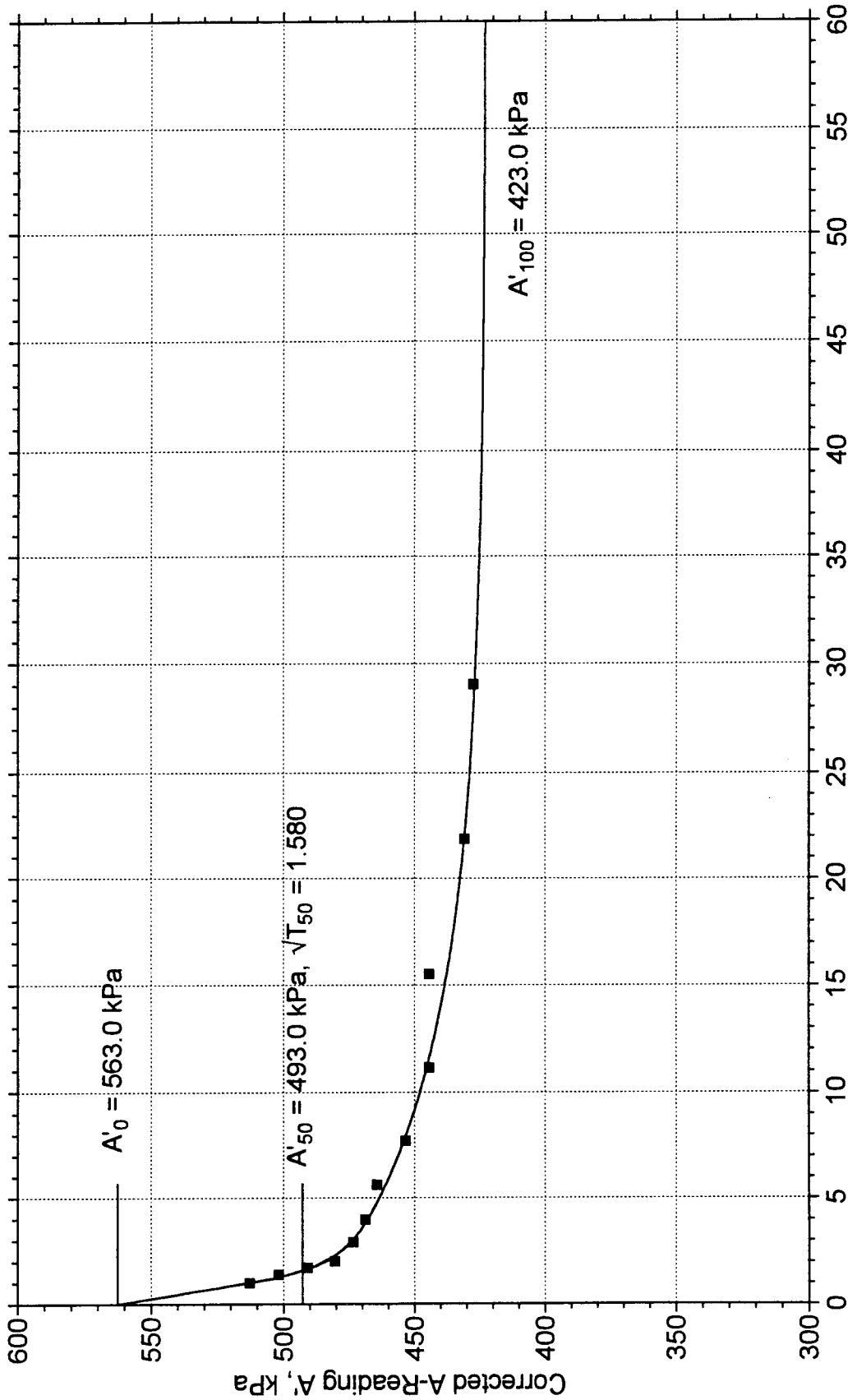


Figure J.33 DMT A-Dissipation: FRZ007, El. -6.49m

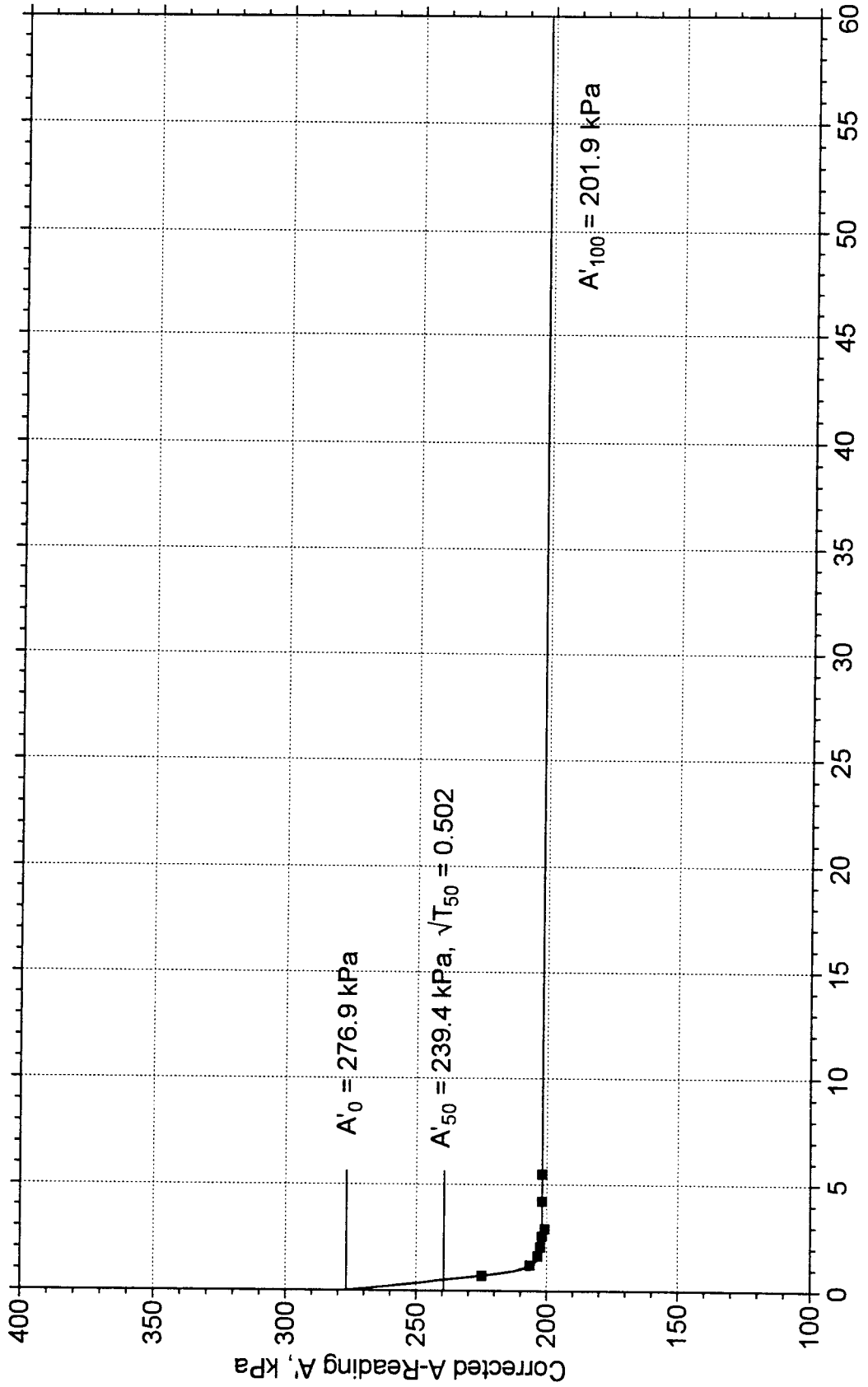


Figure J.34 DMT A-Dissipation: FRZ007, El. -9.69m

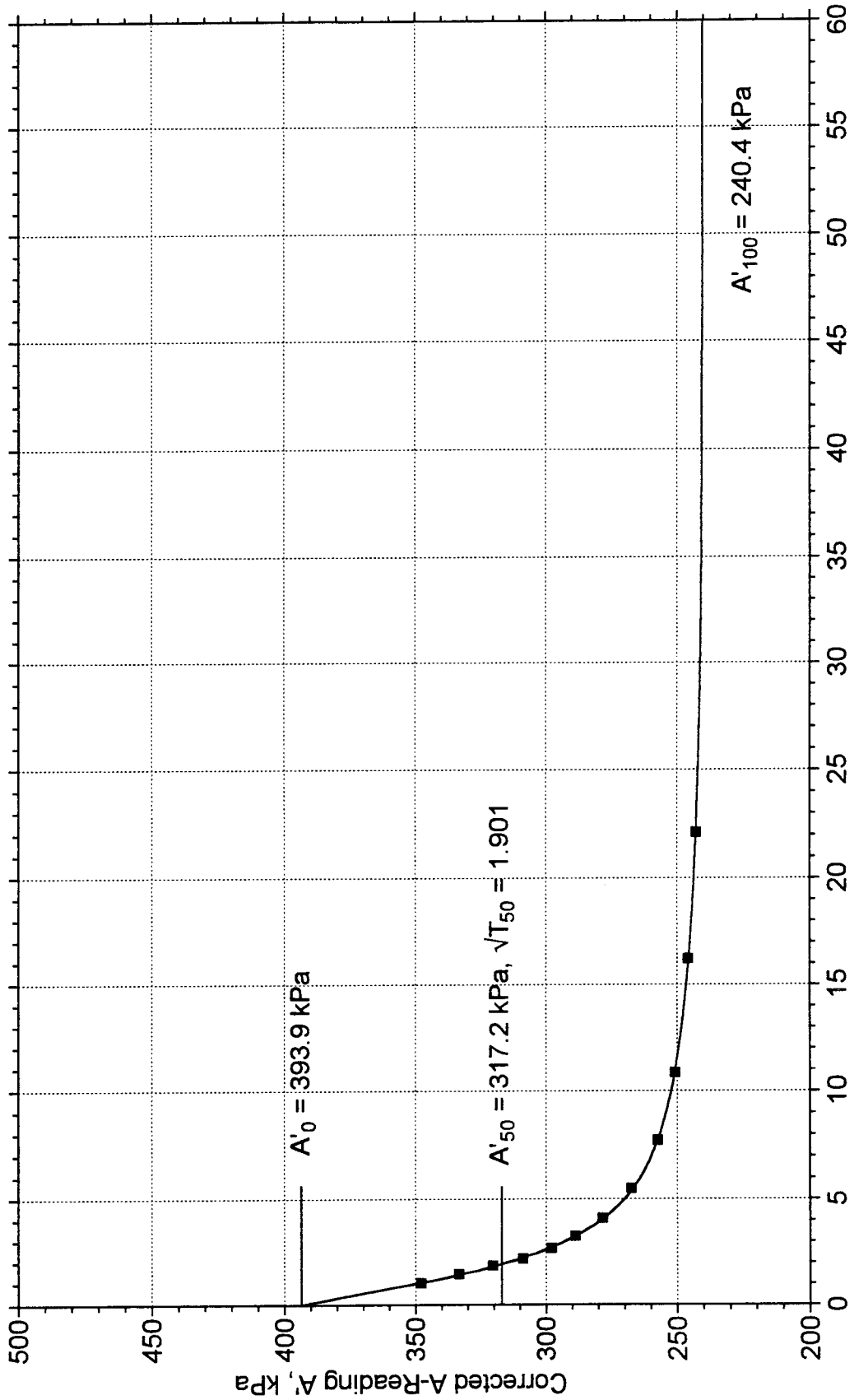


Figure J.35 DMT A-Dissipation: FRZ007, El. -10.09m

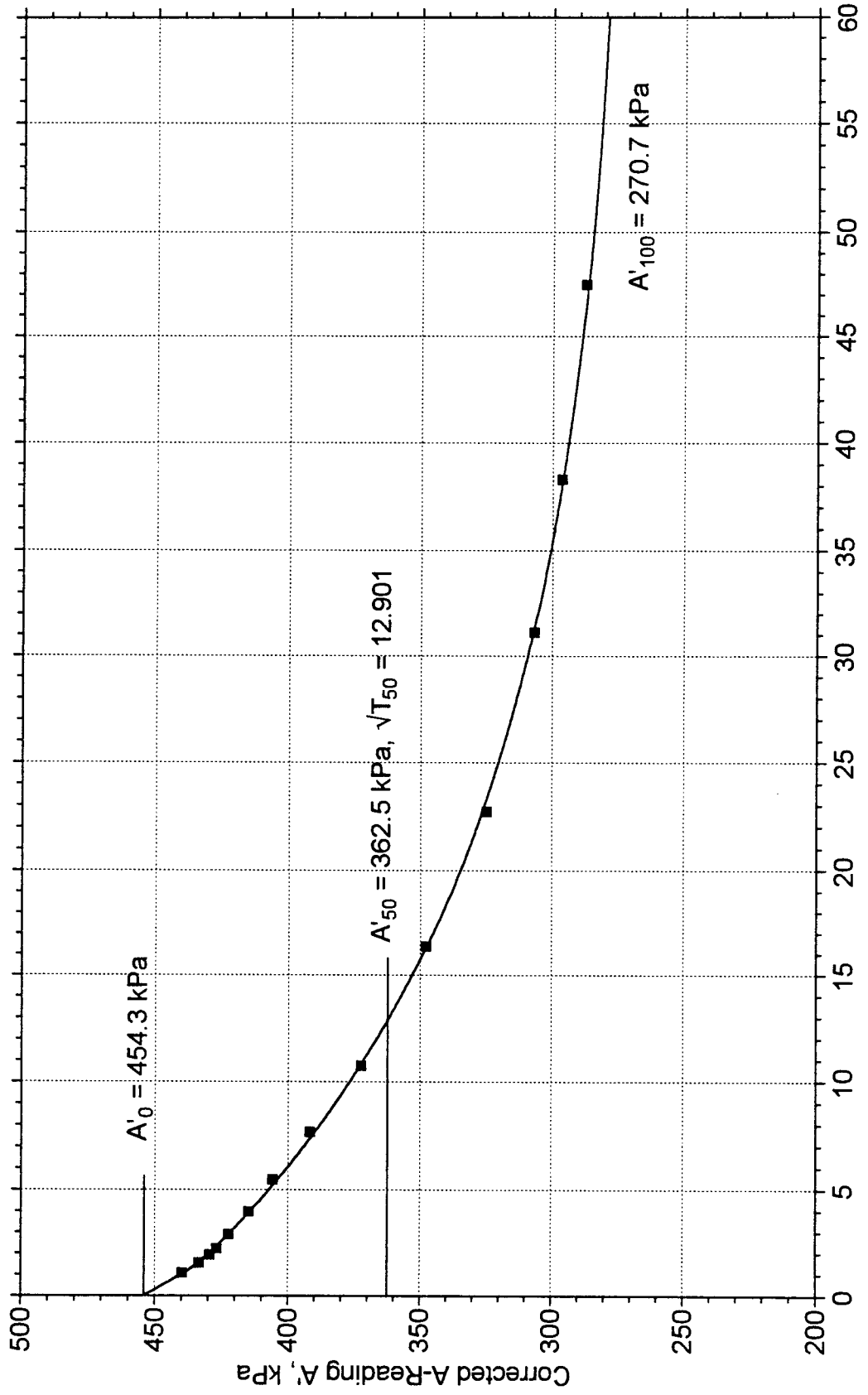


Figure J.36 DMT A-Dissipation: FRZ007, El. -12.32m

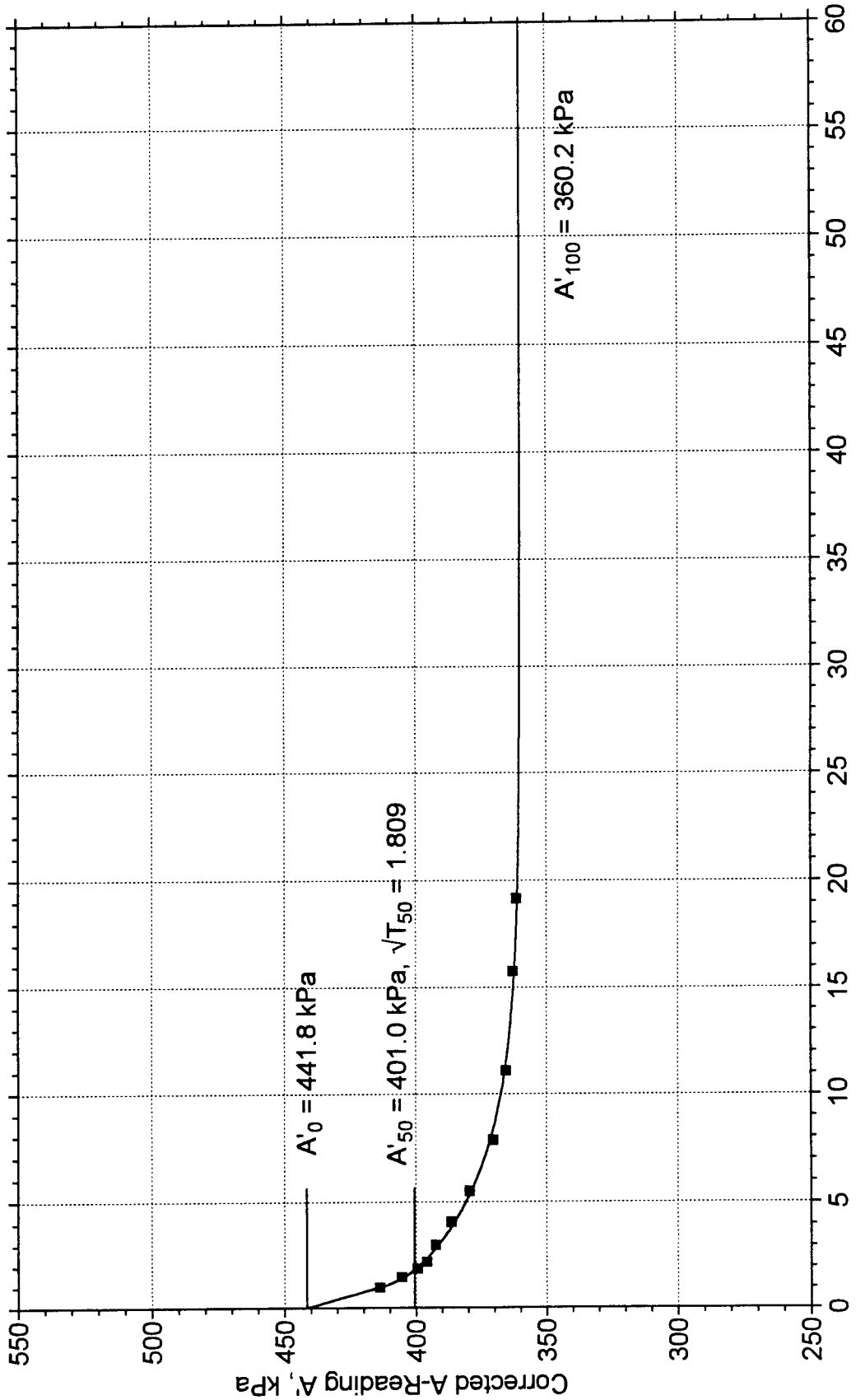


Figure J.37 DMT A-Dissipation: FRZ007, El. -14.89m

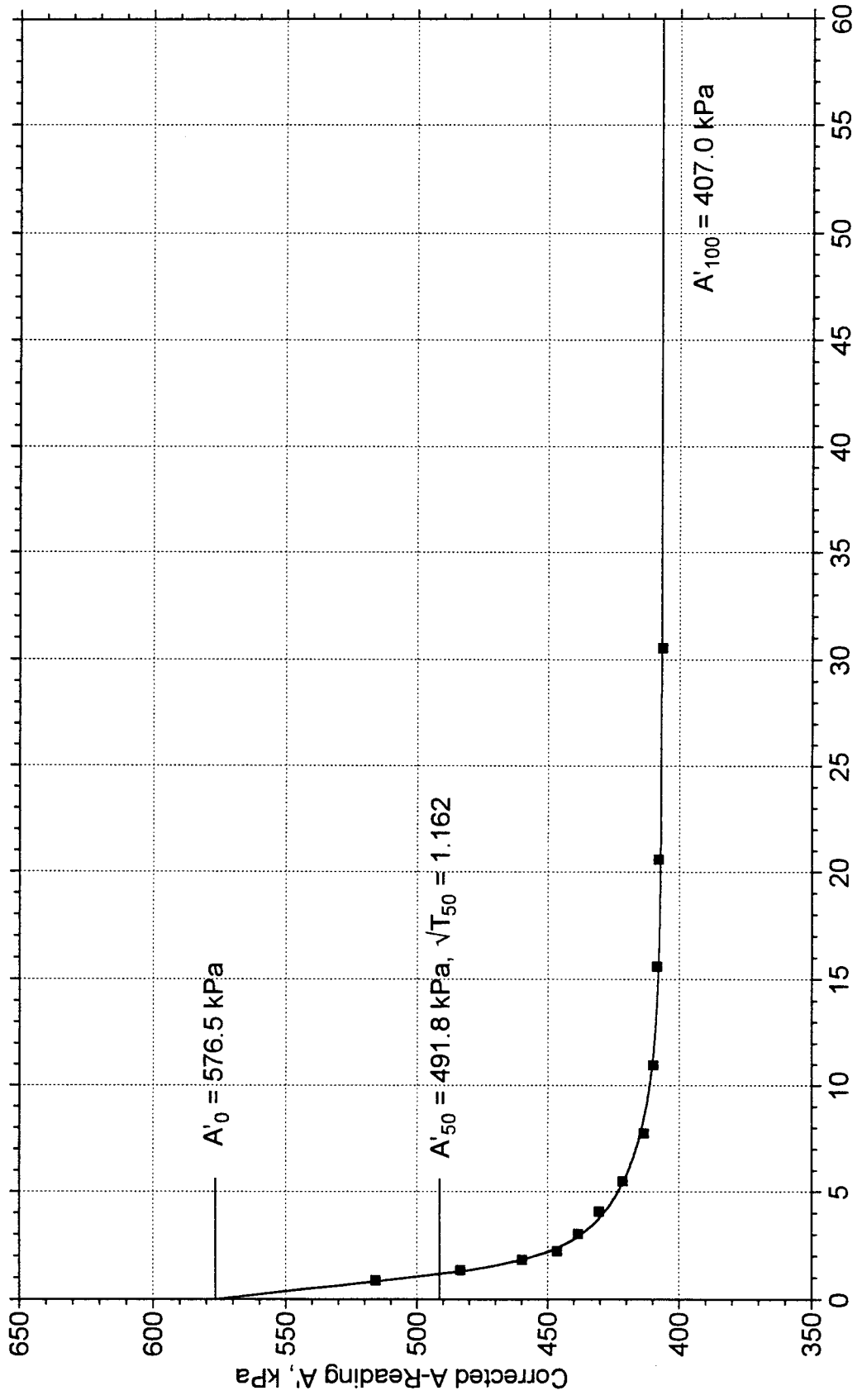


Figure J.38 DMT A-Dissipation: FRZ007, El. -15.89m

APPENDIX K
STANDARD PENETRATION TEST TORQUE MEASUREMENTS

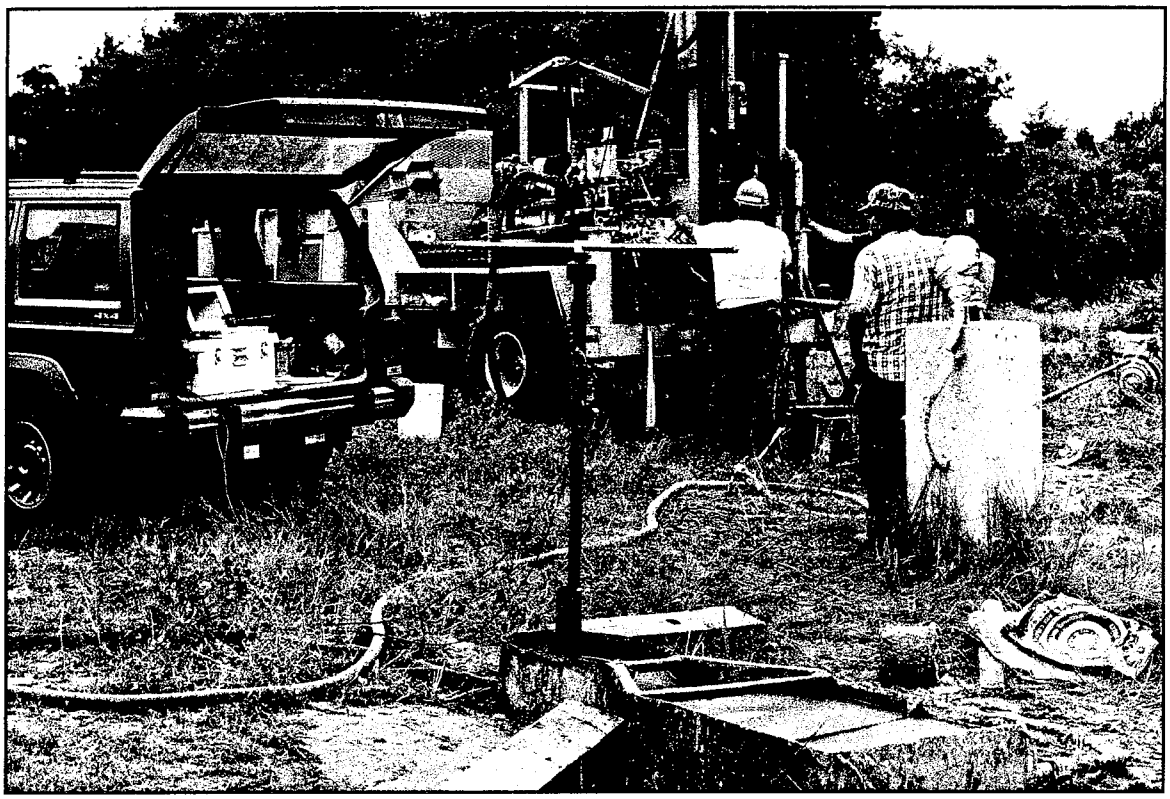


Figure K.1 FDOT District 2 Drill Crew at Vilano East Site

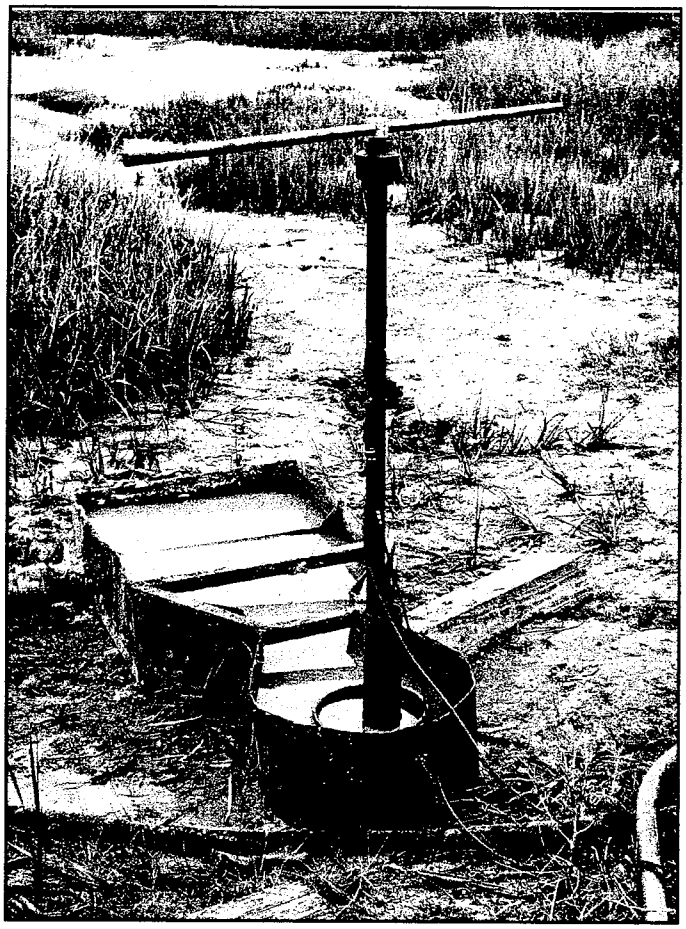


Figure K.2 Torque Cell Ready for SPT-T

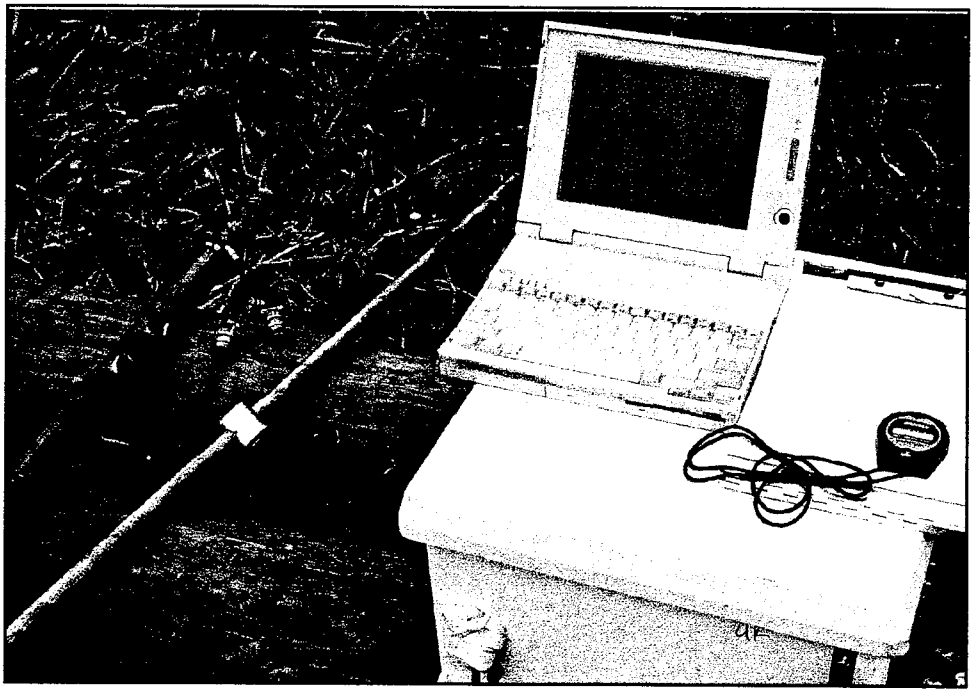


Figure K.3 Torque Cell, Wrench, Datalogger and Field Computer

Table K.1 SPT-T Torque Cell Calibration (serial no. 24A)

Calibrated 23 Jul 97 by P. Bullock, 2.5 volt excitation Cell clamped in bench vise with counterweight for stability						
Load No.	Applied Weight lbs	oz	Lever Arm ft	Applied Torque ft-lbs	CR10 Measurements Msd. microv/v	Net milliv/v
Counterwt.	0	0.00	0.00	0.00	676.11	-0.0000
Only	0	0.00	0.00	0.00	676.12	-0.0000
Load	11	11.34	10.06	9.82	686.35	0.0102
Wrench	11	11.34	10.06	9.82	686.34	0.0102
1	9	10.10	18.63	24.77	705.66	0.0295
	9	10.10	18.63	24.77	705.66	0.0295
2	8	24.40	18.63	39.55	725.12	0.0490
	8	24.40	18.63	39.55	725.09	0.0490
3	6	0.80	18.63	48.94	737.33	0.0612
	6	0.80	18.63	48.94	737.34	0.0612
4	9	12.60	18.63	64.13	756.93	0.0808
	9	12.60	18.63	64.13	756.91	0.0808
5	10	9.40	18.63	80.56	778.19	0.1021
	10	9.40	18.63	80.56	778.18	0.1020
6	9	15.20	18.63	96.01	798.09	0.1220
	9	15.20	18.63	96.01	798.06	0.1219
7	9	8.30	18.63	110.78	817.13	0.1410
	9	8.30	18.63	110.78	817.14	0.1410
8	10	1.00	18.63	126.40	837.26	0.1611
	10	1.00	18.63	126.40	837.24	0.1611
7	9	8.30	18.63	110.78	817.15	0.1410
	9	8.30	18.63	110.78	817.15	0.1410
6	9	15.20	18.63	96.01	798.13	0.1220
	9	15.20	18.63	96.01	798.05	0.1219
5	10	9.40	18.63	80.56	778.14	0.1020
	10	9.40	18.63	80.56	778.15	0.1020
4	9	12.60	18.63	64.13	756.91	0.0808
	9	12.60	18.63	64.13	756.83	0.0807
3	6	0.80	18.63	48.94	737.24	0.0611
	6	0.80	18.63	48.94	737.28	0.0611
2	8	24.40	18.63	39.55	725.05	0.0489
	8	24.40	18.63	39.55	725.05	0.0489
1	9	10.10	18.63	24.77	705.62	0.0295
	9	10.10	18.63	24.77	705.65	0.0295
Load	11	11.34	10.06	9.82	686.37	0.0102
Wrench	11	11.34	10.06	9.82	686.37	0.0102
Counterwt.	0	0.00	0.00	0.00	676.17	0.0000
Only	0	0.00	0.00	0.00	676.16	0.0000
Calibration: 789.70 ft-lb/(millivolt/volt), r2 = 0.9995						

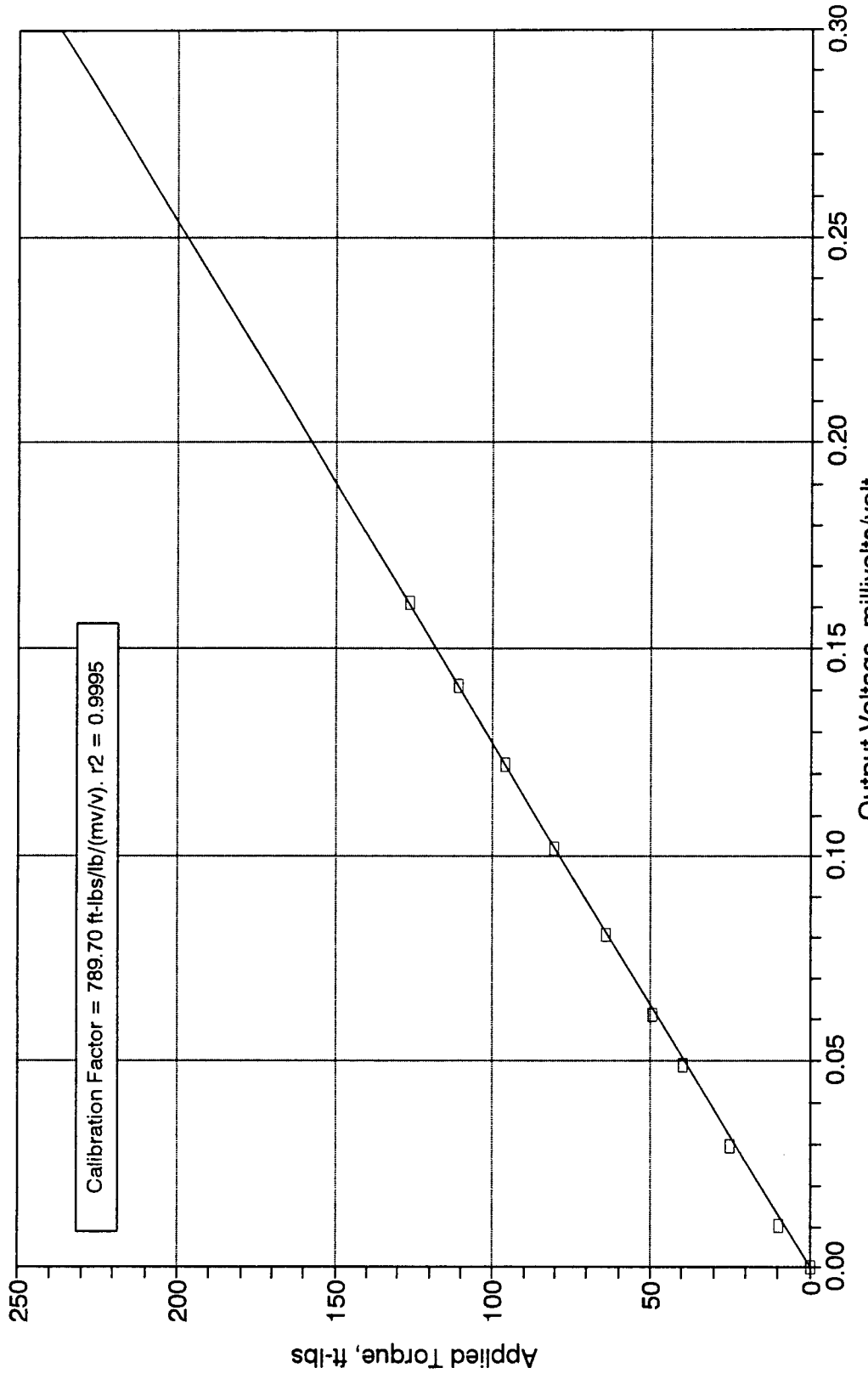


Figure K.4 SPT-T Torque Cell Calibration (serial no. 24A)

Table K.2 SPT-T Torque Cell Calibration (serial no. 24B)

Calibrated 23 Jul 97 by P. Bullock, 2.5 volt excitation Cell clamped in bench vise with counterweight for stability						
Load No.	Applied Weight lbs	oz	Lever Arm ft	Applied Torque ft-lbs	CR10 Measurements Msd. microv/v	Net milliv/v
Counterwt.	0	0.00	0.00	0.00	72.52	-0.0000
Only	0	0.00	0.00	0.00	72.56	0.0000
Load	11	11.34	10.06	9.82	82.70	0.0102
Wrench	11	11.34	10.06	9.82	82.70	0.0102
1	9	10.10	18.63	24.77	101.89	0.0293
	9	10.10	18.63	24.77	101.87	0.0293
2	8	24.40	18.63	39.55	121.30	0.0488
	8	24.40	18.63	39.55	121.27	0.0487
3	6	0.80	18.63	48.94	133.46	0.0609
	6	0.80	18.63	48.94	133.49	0.0609
4	9	12.60	18.63	64.13	152.90	0.0804
	9	12.60	18.63	64.13	152.92	0.0804
5	10	9.40	18.63	80.56	174.08	0.1015
	10	9.40	18.63	80.56	174.09	0.1015
6	9	15.20	18.63	96.01	193.97	0.1214
	9	15.20	18.63	96.01	193.97	0.1214
7	9	8.30	18.63	110.78	212.95	0.1404
	9	8.30	18.63	110.78	212.90	0.1404
8	10	1.00	18.63	126.40	232.99	0.1604
	10	1.00	18.63	126.40	232.96	0.1604
7	9	8.30	18.63	110.78	212.90	0.1404
	9	8.30	18.63	110.78	212.82	0.1403
6	9	15.20	18.63	96.01	193.97	0.1214
	9	15.20	18.63	96.01	193.99	0.1214
5	10	9.40	18.63	80.56	174.07	0.1015
	10	9.40	18.63	80.56	174.07	0.1015
4	9	12.60	18.63	64.13	152.88	0.0803
	9	12.60	18.63	64.13	152.88	0.0803
3	6	0.80	18.63	48.94	133.37	0.0608
	6	0.80	18.63	48.94	133.41	0.0609
2	8	24.40	18.63	39.55	121.21	0.0487
	8	24.40	18.63	39.55	121.21	0.0487
1	9	10.10	18.63	24.77	101.89	0.0293
	9	10.10	18.63	24.77	101.85	0.0293
Load	11	11.34	10.06	9.82	82.65	0.0101
Wrench	11	11.34	10.06	9.82	82.71	0.0102
Counterwt.	0	0.00	0.00	0.00	72.54	-0.0000
Only	0	0.00	0.00	0.00	72.55	0.0000
Calibration: 793.29 ft-lb/(millivolt/volt), r2 = 0.9995						

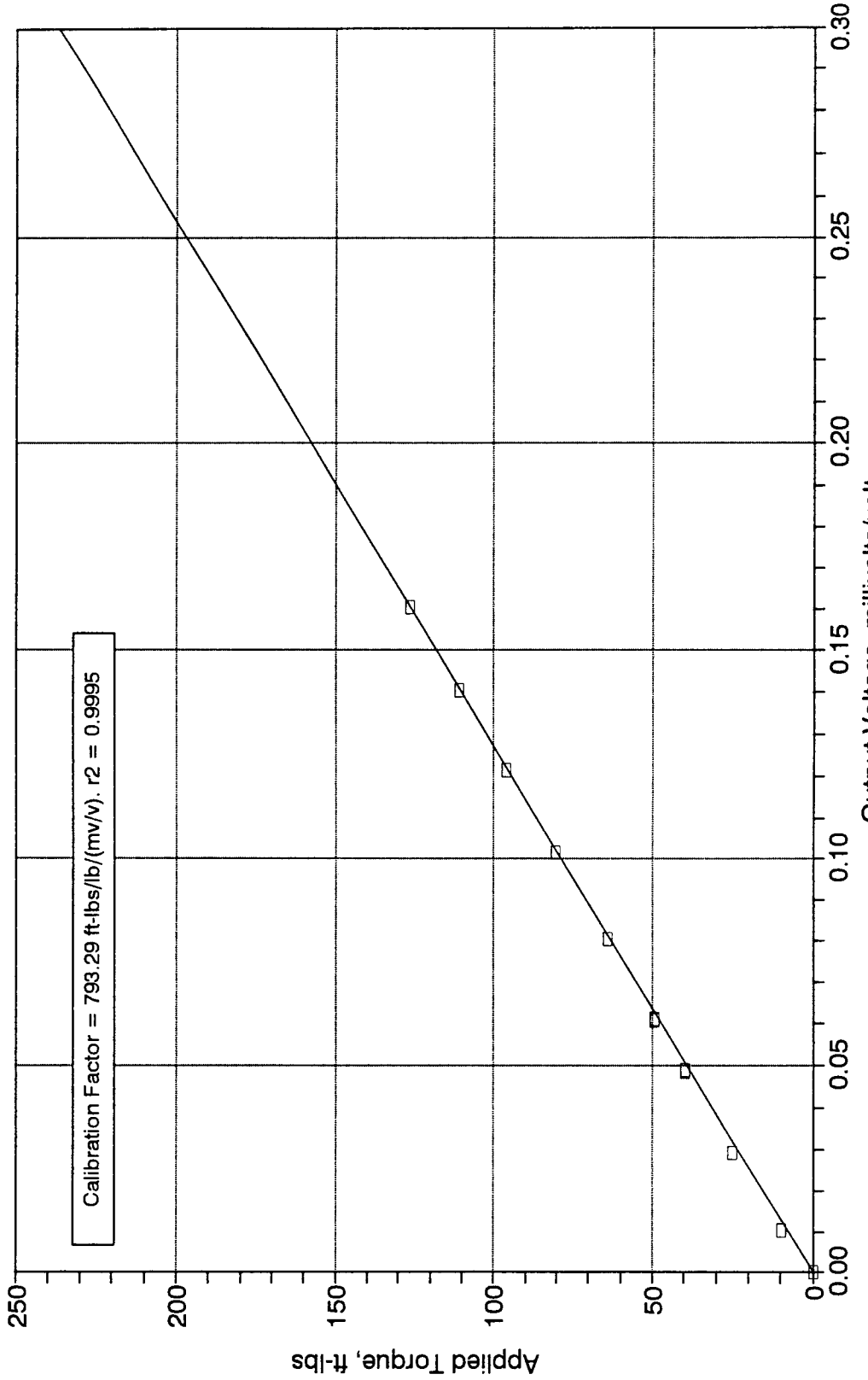


Figure K.5 SPT-T Torque Cell Calibration (serial no 24B)

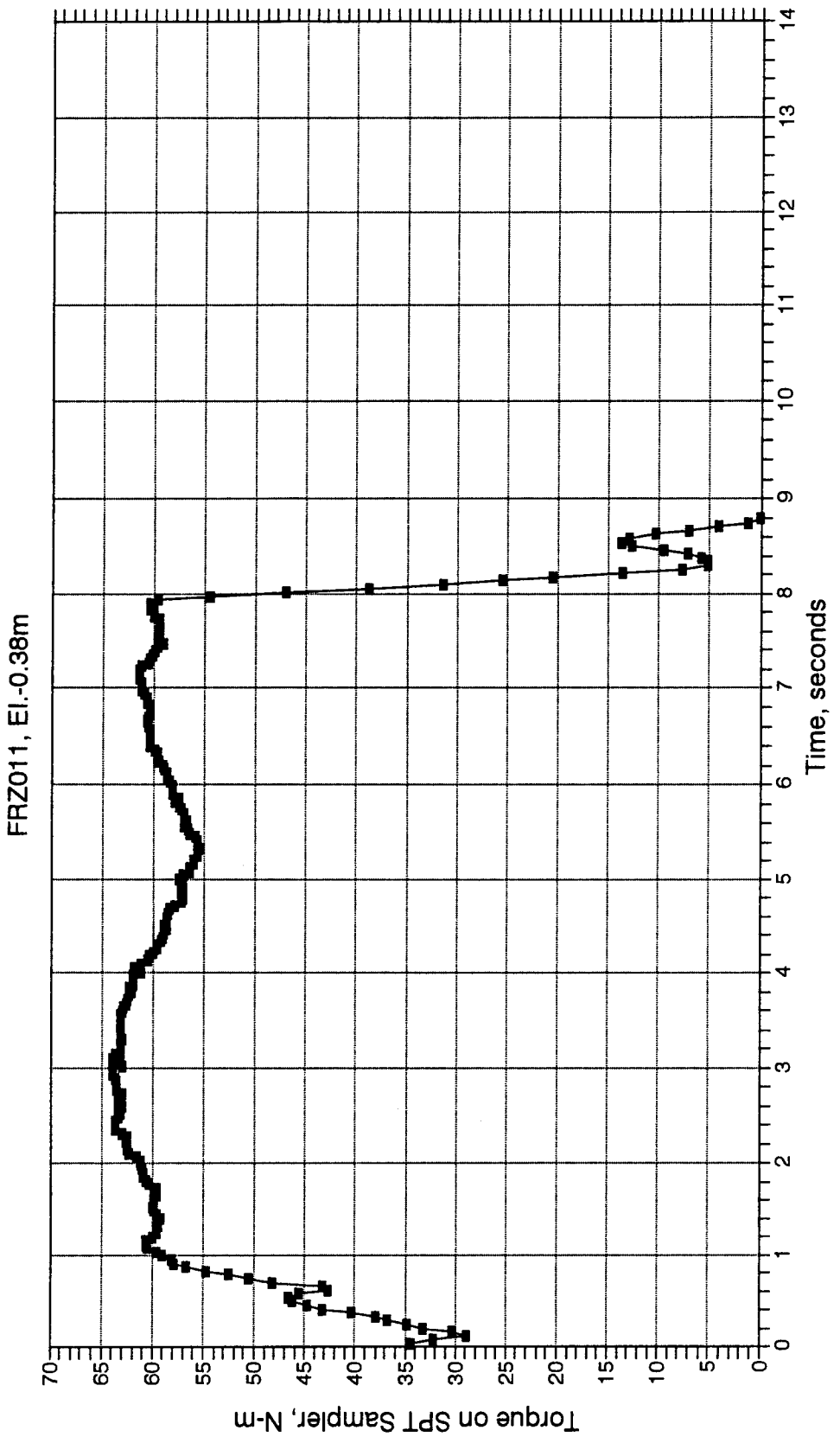


Figure K.6 SPT-T: FRZ011, Elev. -0.38 m

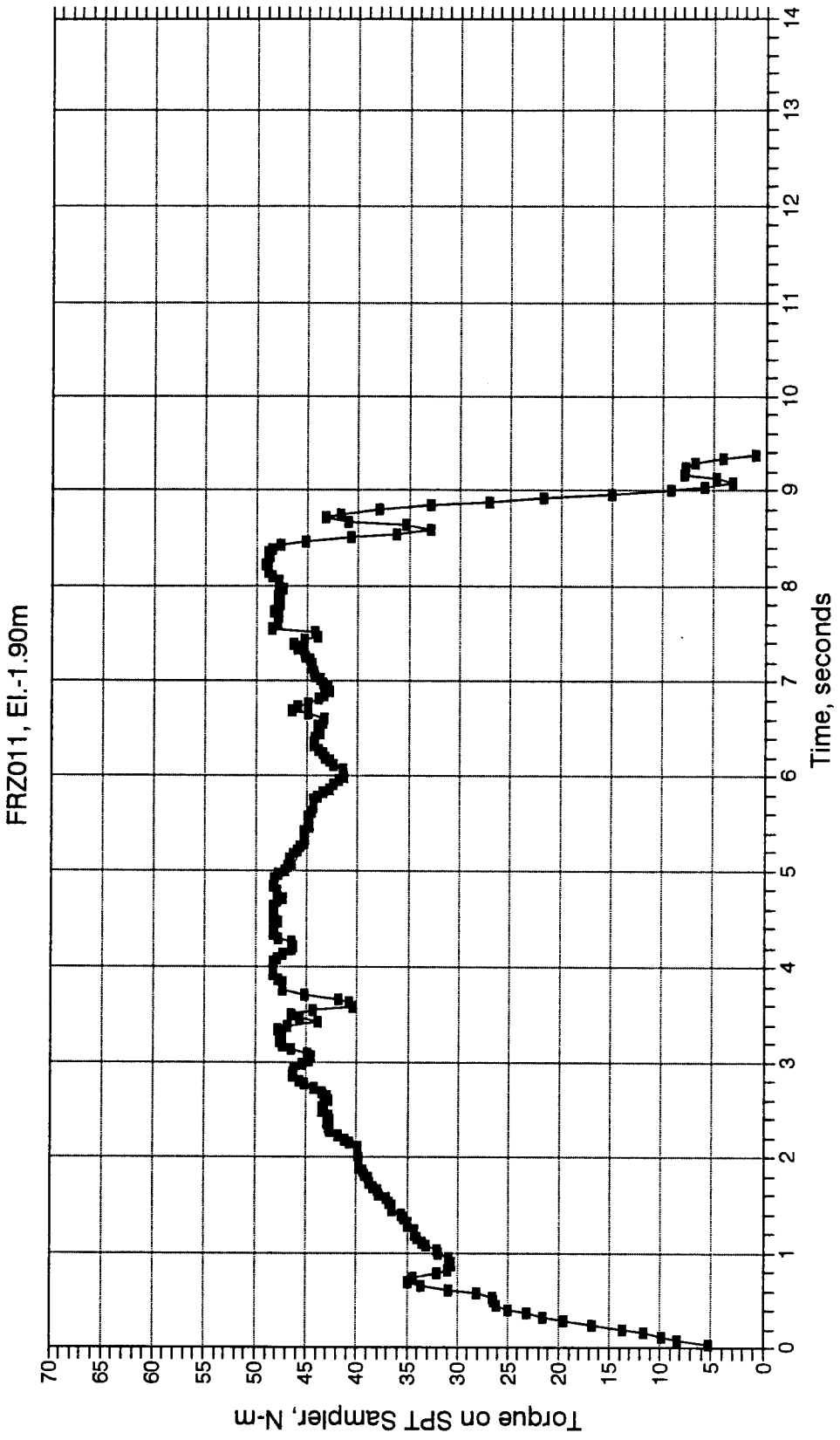


Figure K.7 SPT-T: FRZ011, Elev. -1.90 m

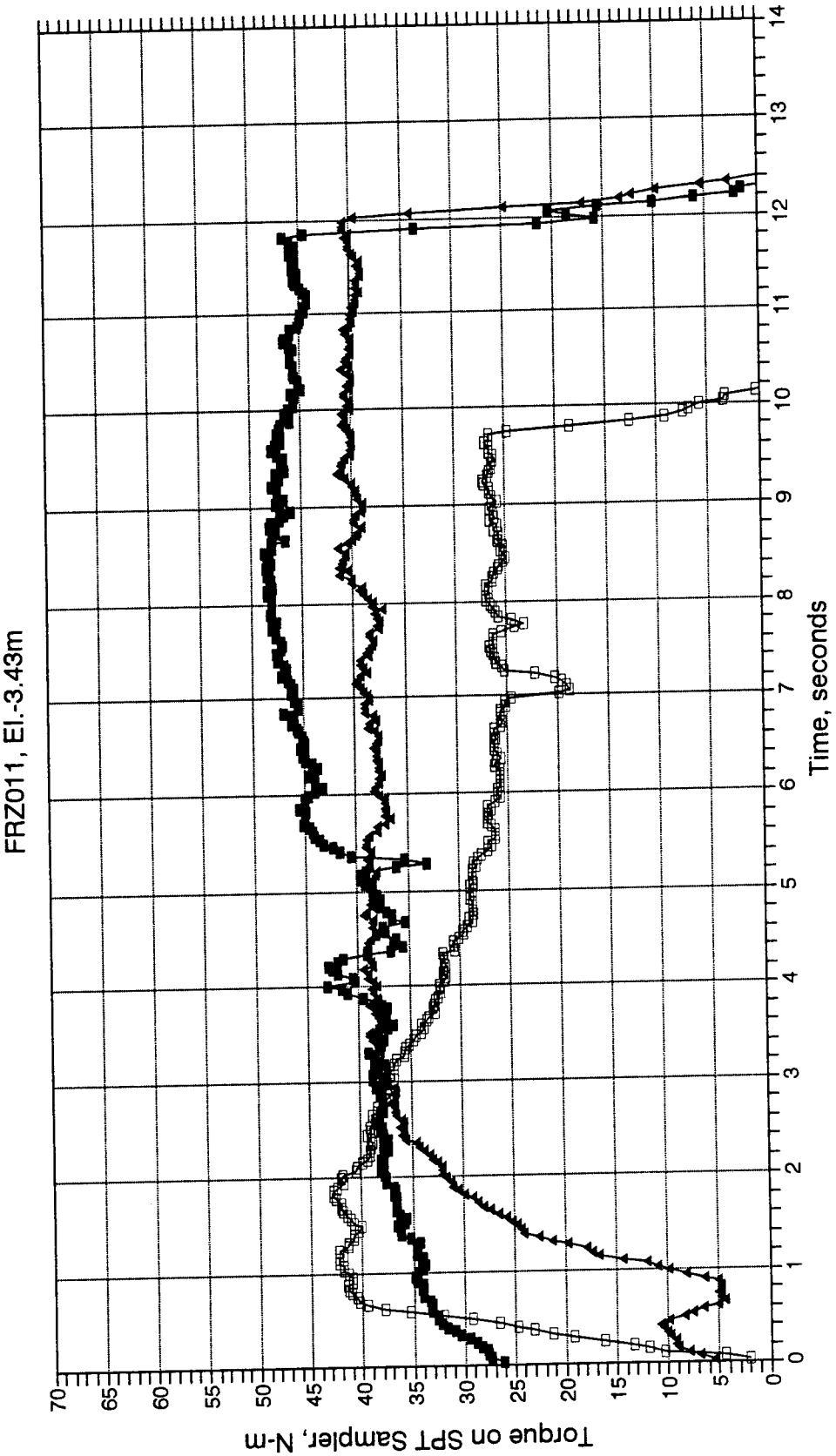


Figure K.8 SPT-T: FRZ011, Elev. -3.43 m

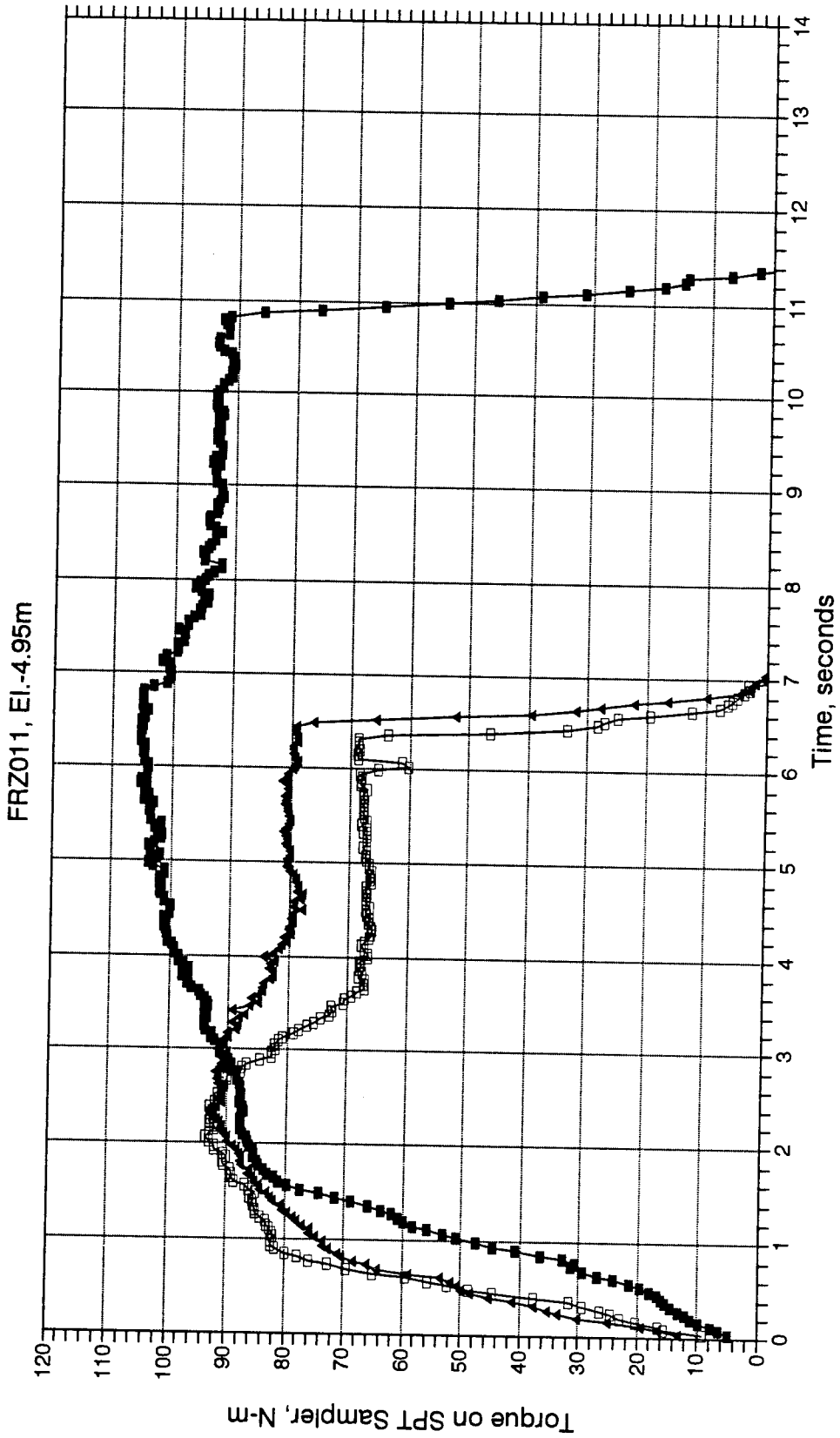


Figure K.9 SPT-T: FRZ011, Elev. -4.95 m

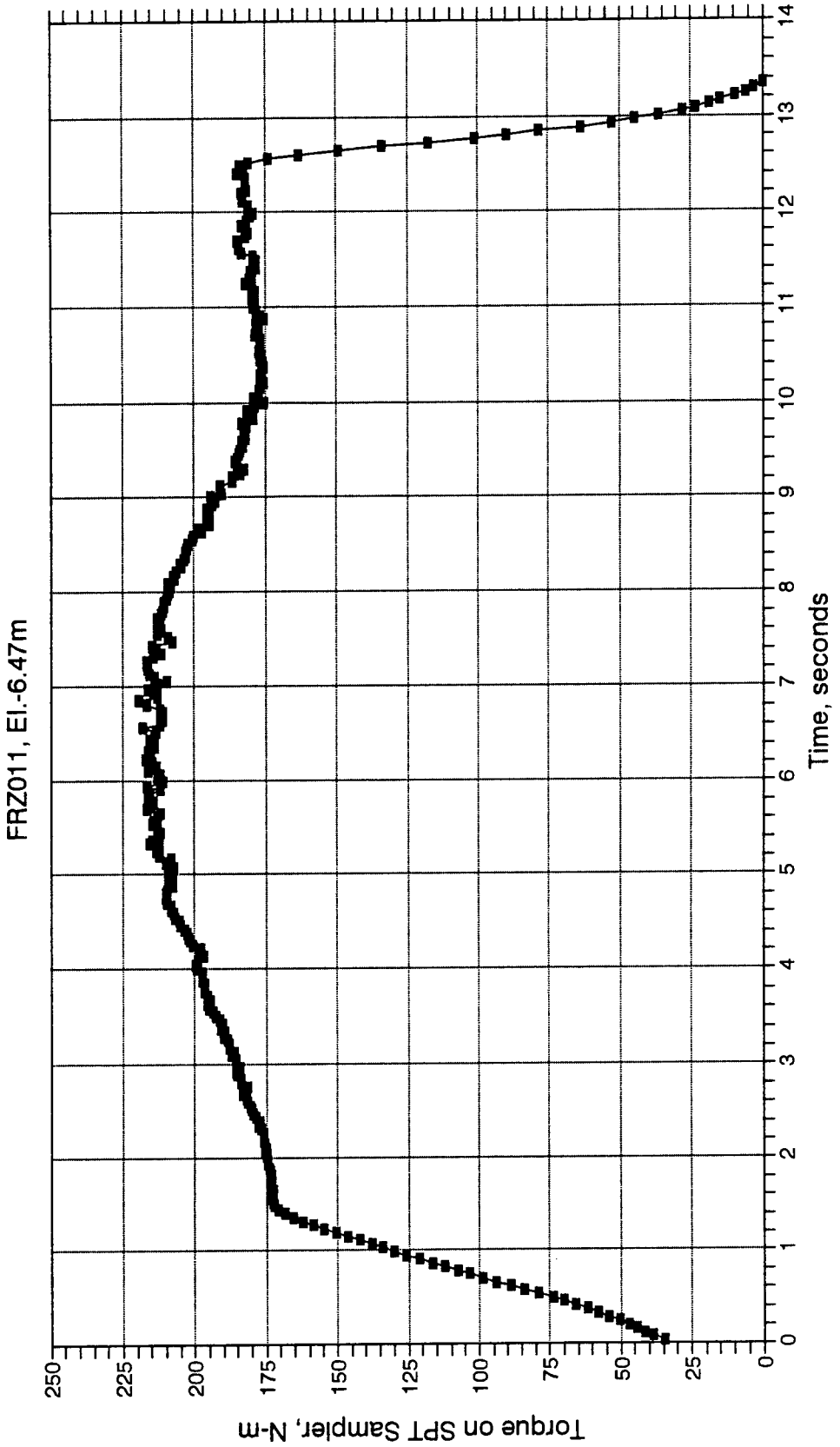


Figure K.10 SPT-T: FRZ011, Elev. -6.47 m

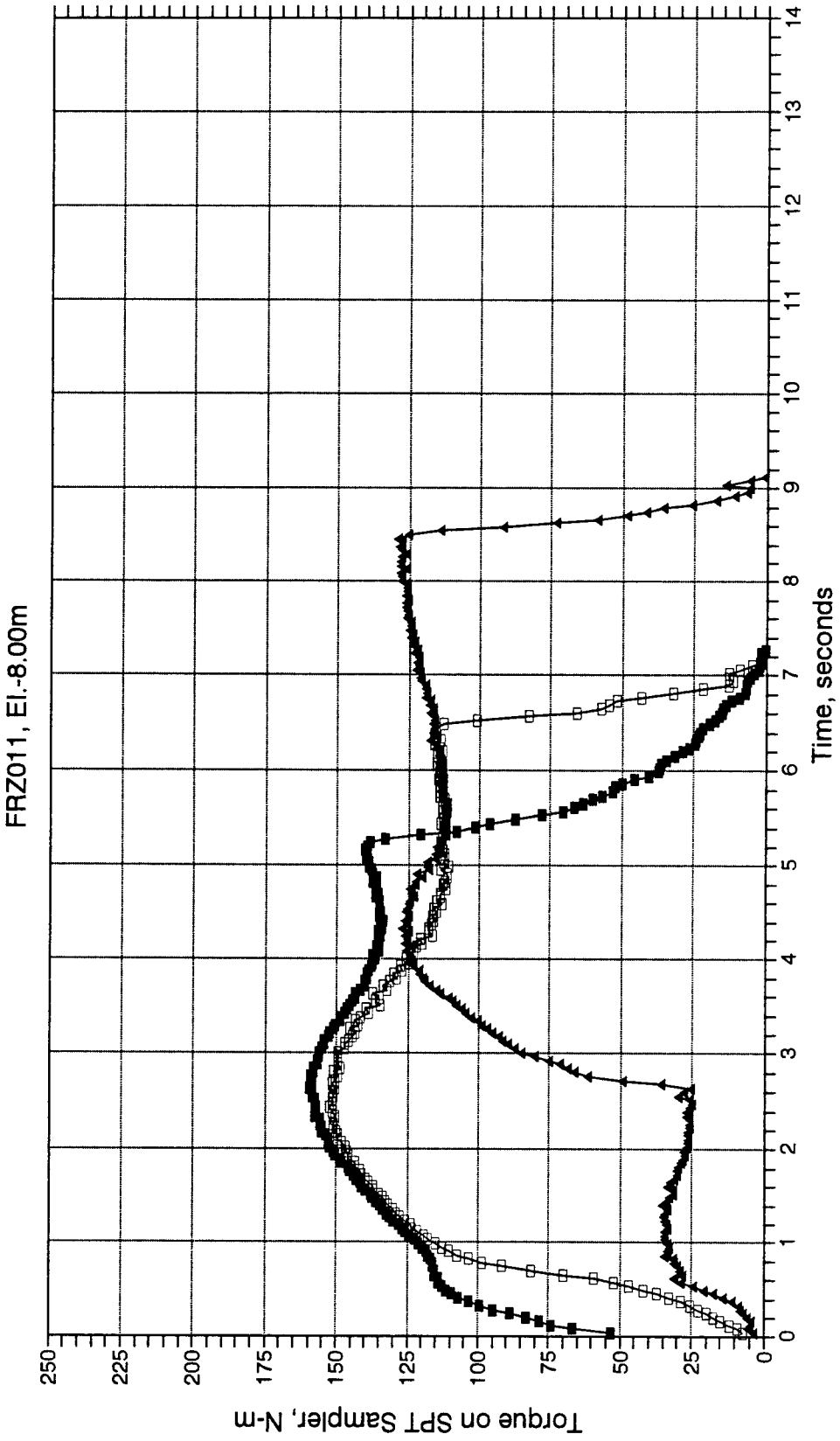


Figure K.11 SPT-T: FRZ011, Elev. -8.00 m

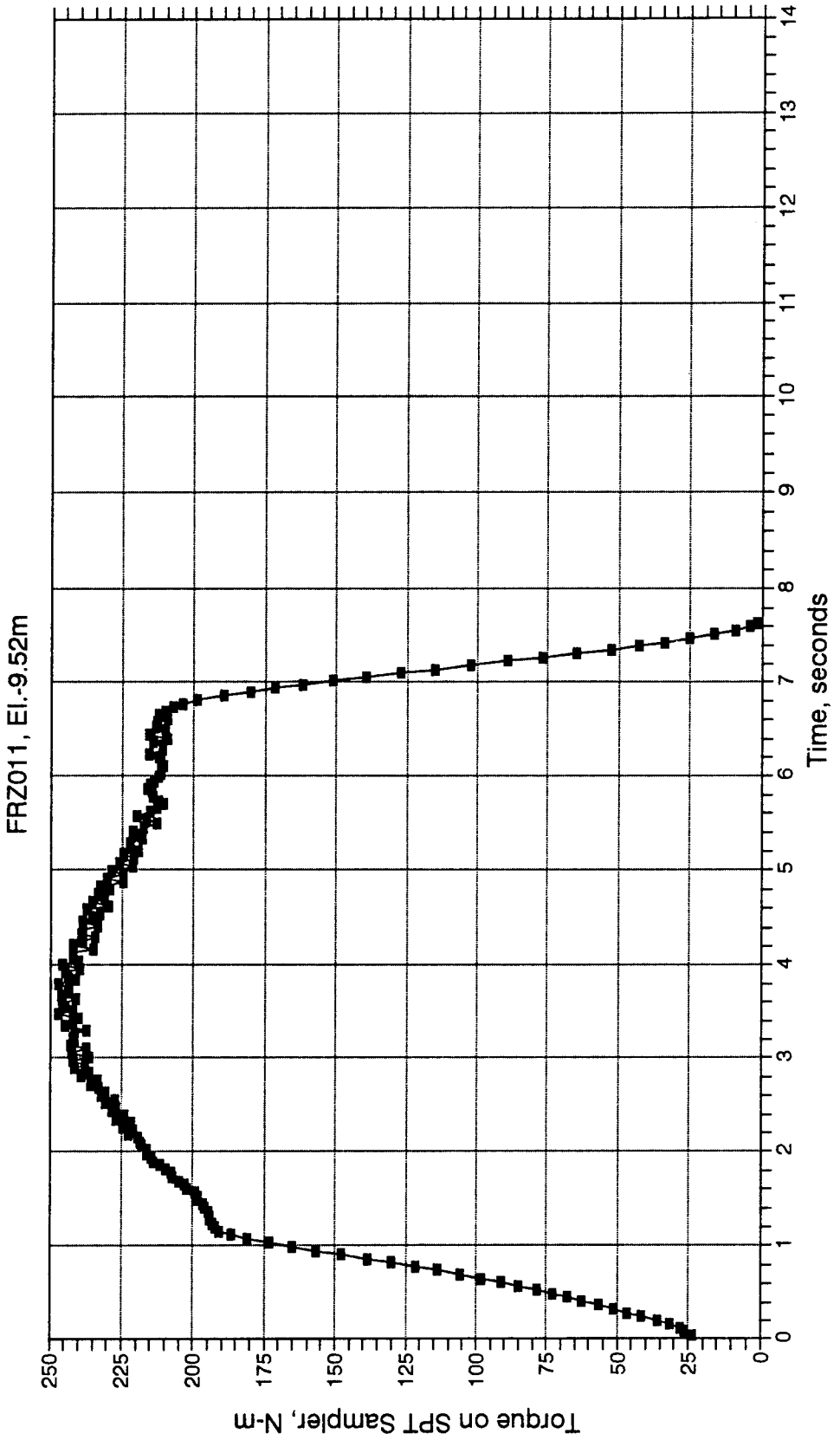


Figure K.12 SPT-T: FRZ011, Elev. -9.52 m

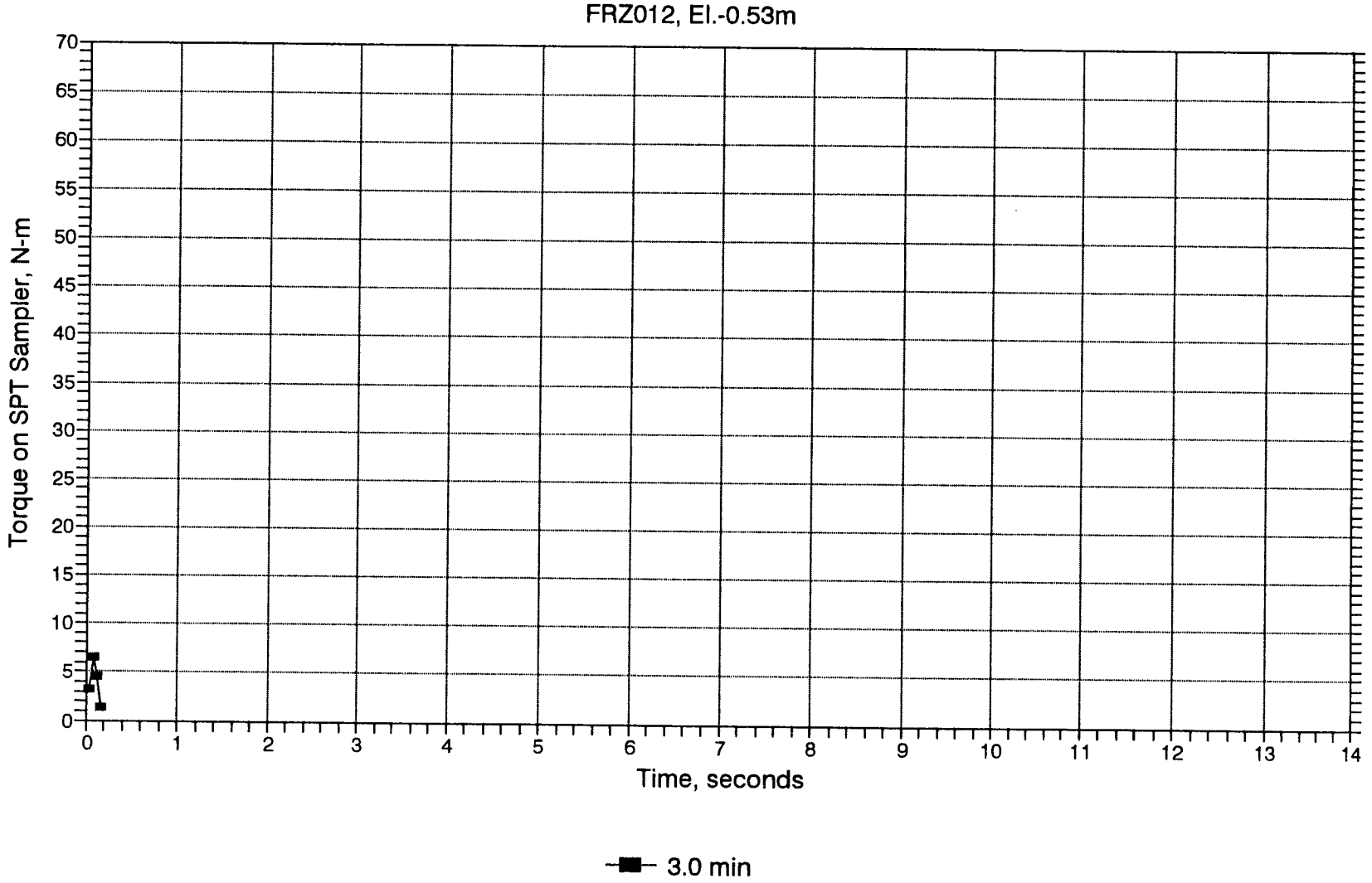


Figure K.13 SPT-T: FRZ012, Elev. -0.53 m

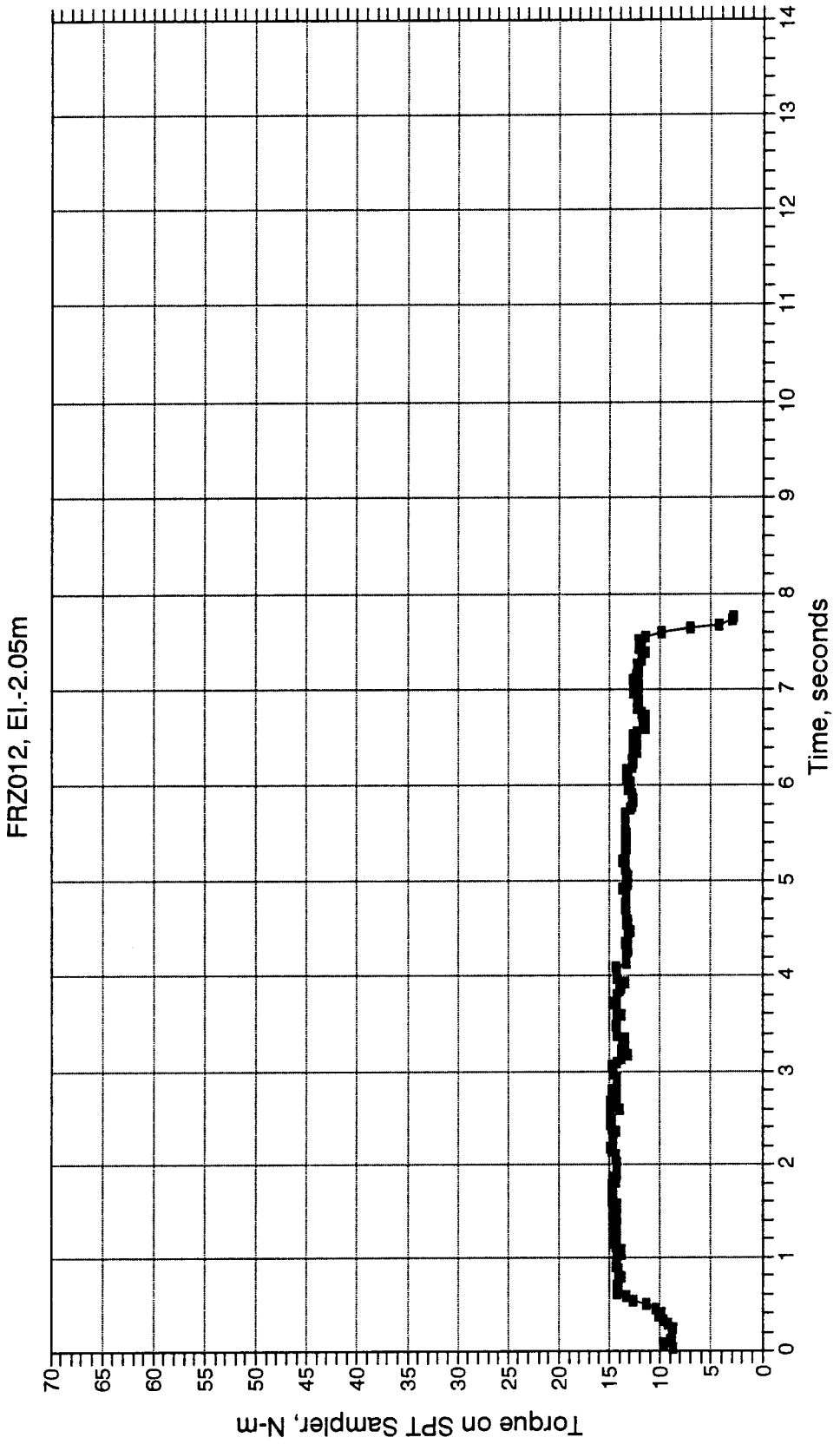


Figure K.14 SPT-T: FRZ012, Elev. -2.05 m

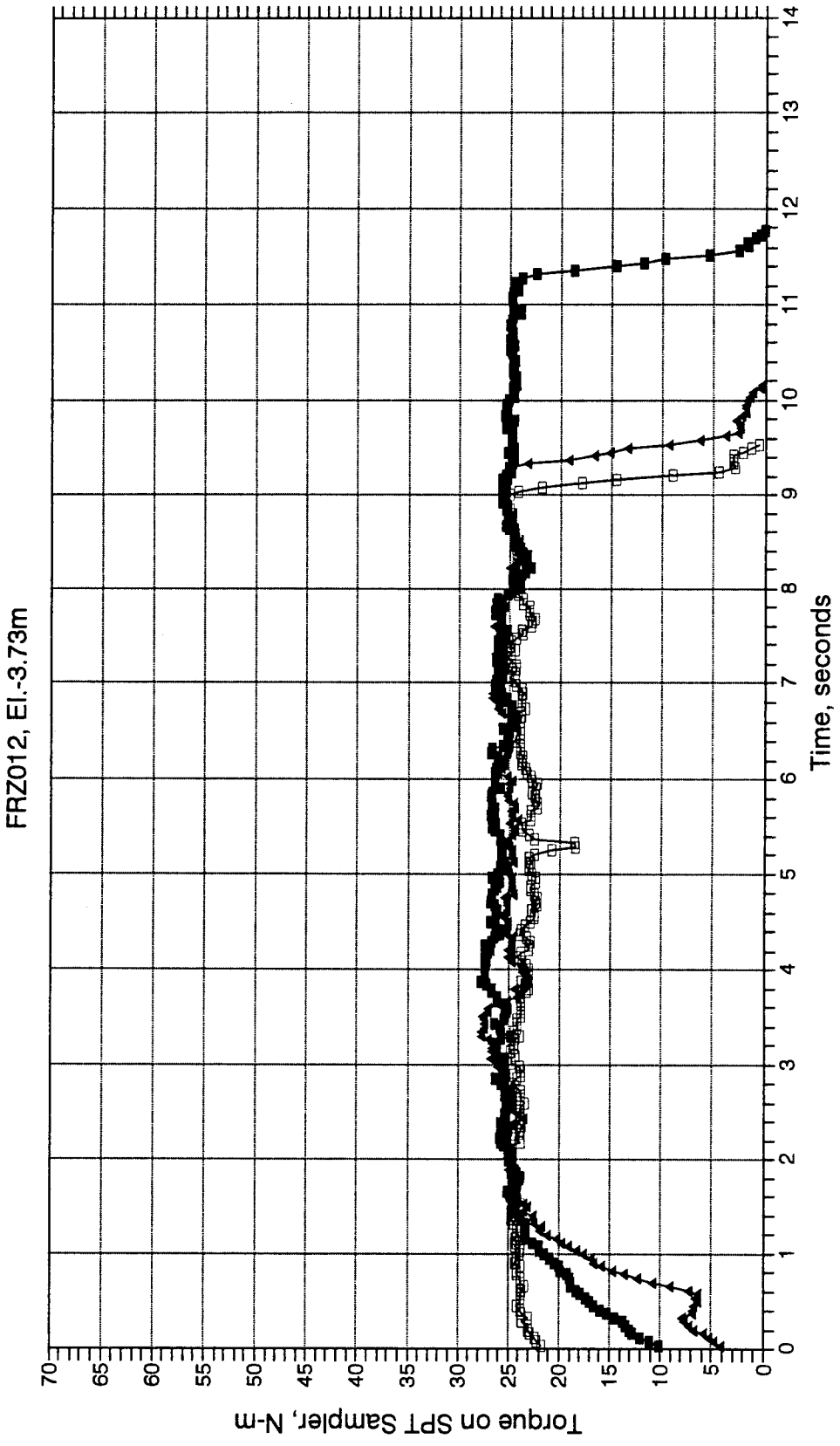


Figure K.15 SPT-T: FRZ012, Elev. -3.73 m

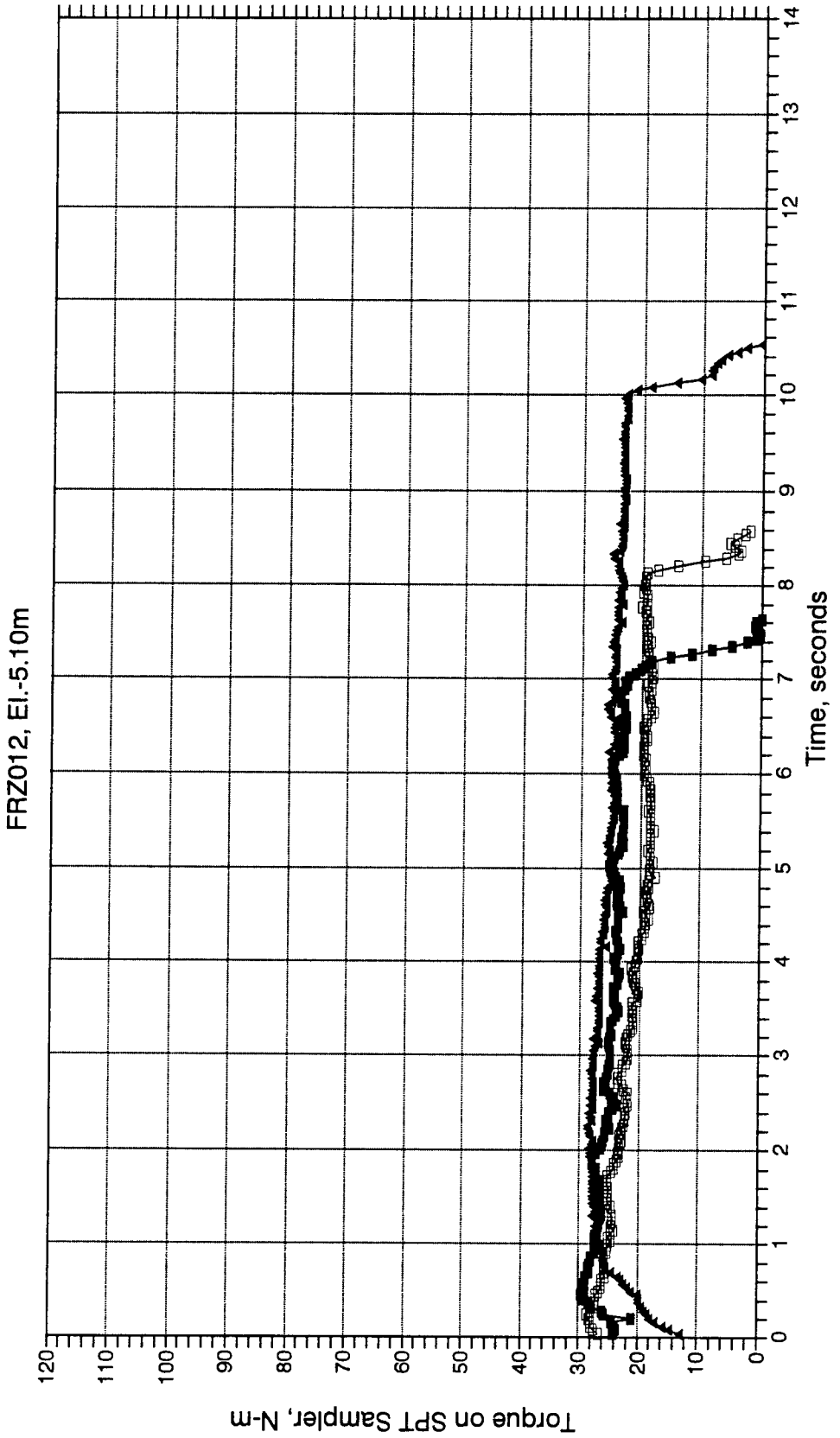


Figure K.16 SPT-T: FRZ012, Elev. -5.10 m

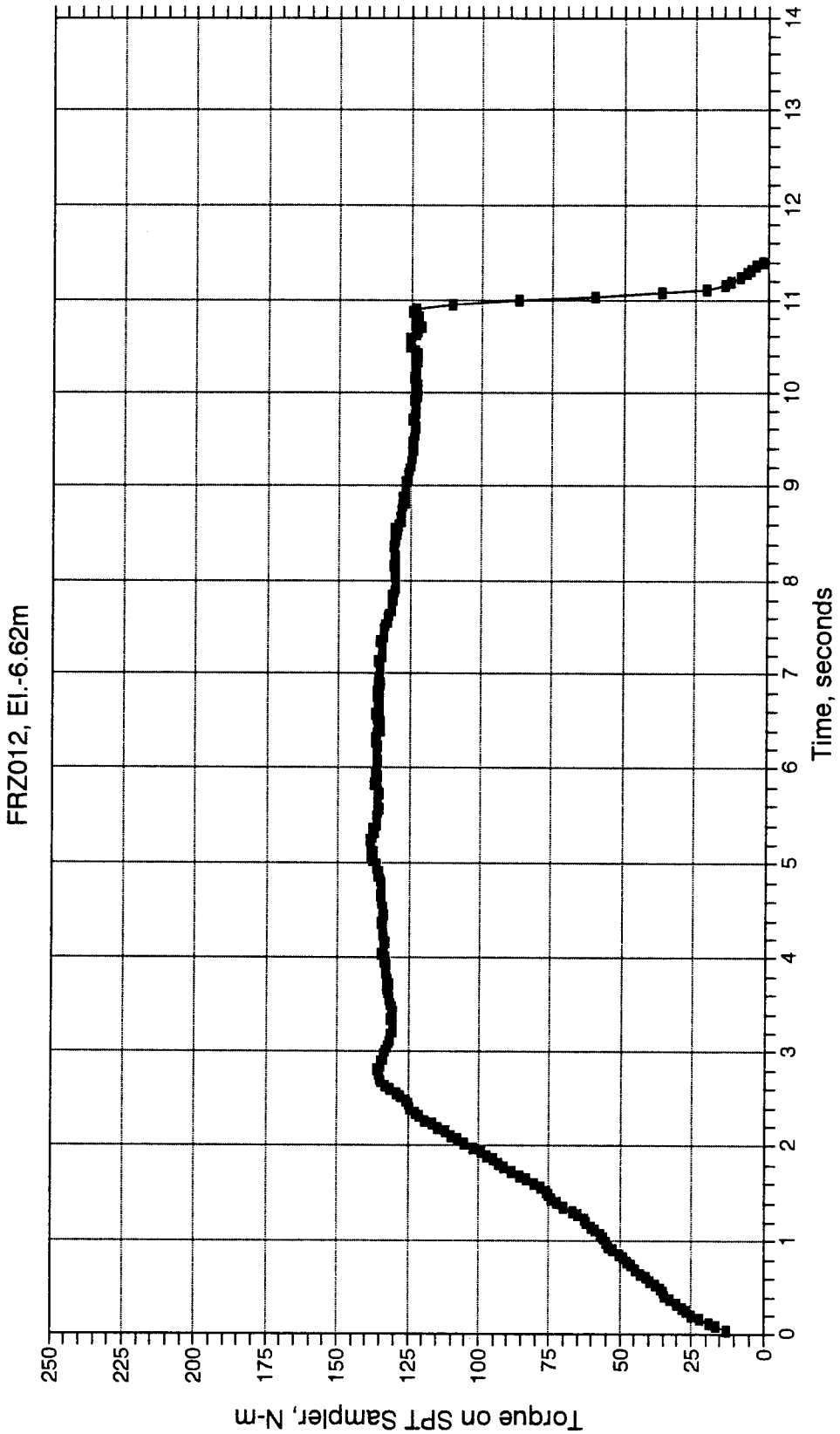


Figure K.17 SPT-T: FRZ012, Elev. -6.62 m

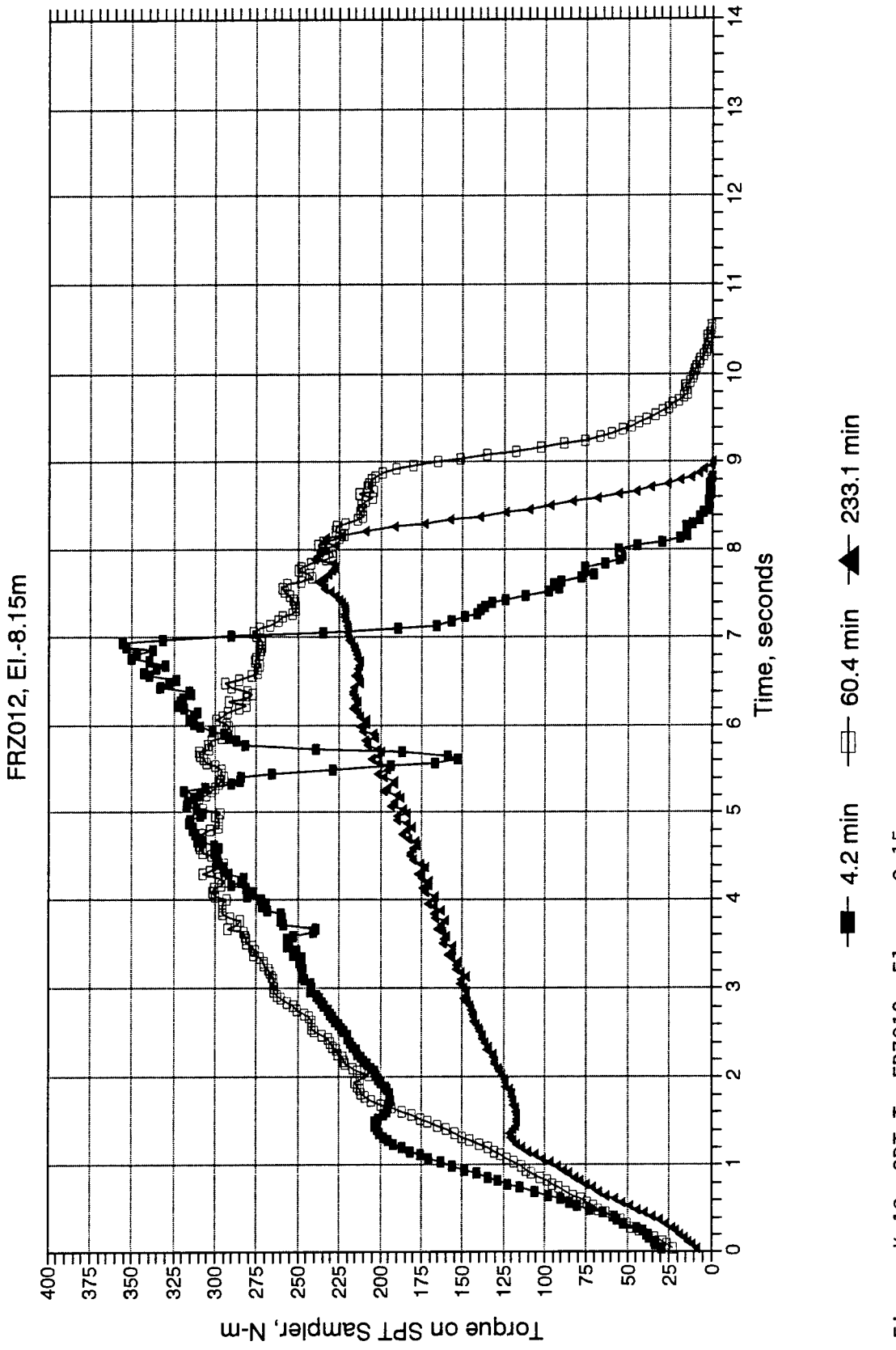


Figure K.18 SPT-T: FRZ012, Elev. -8.15 m

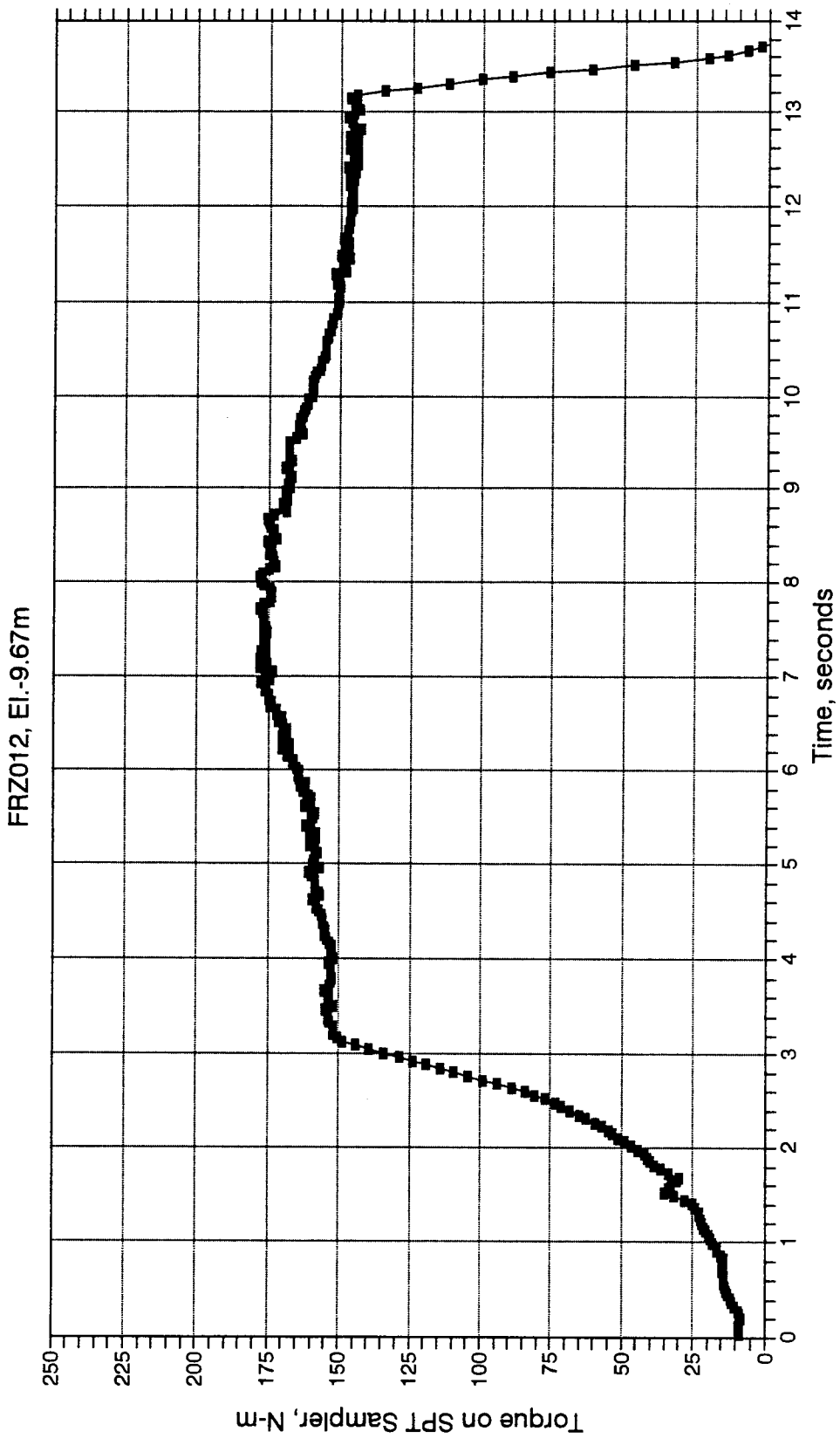


Figure K.19 SPT-T: FRZ012, Elev. -9.67 m

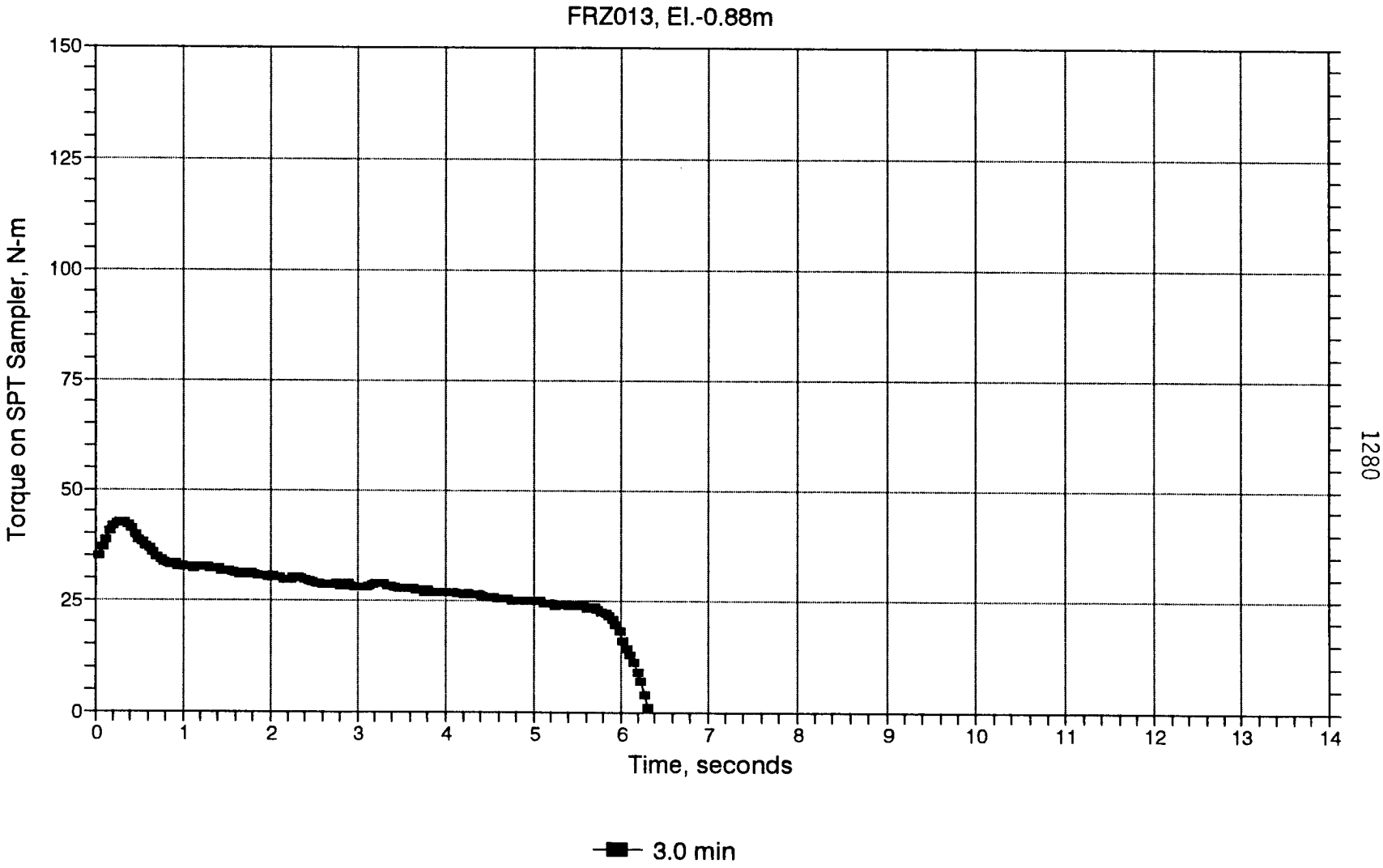


Figure K.20 SPT-T: FRZ013, Elev. -0.88 m

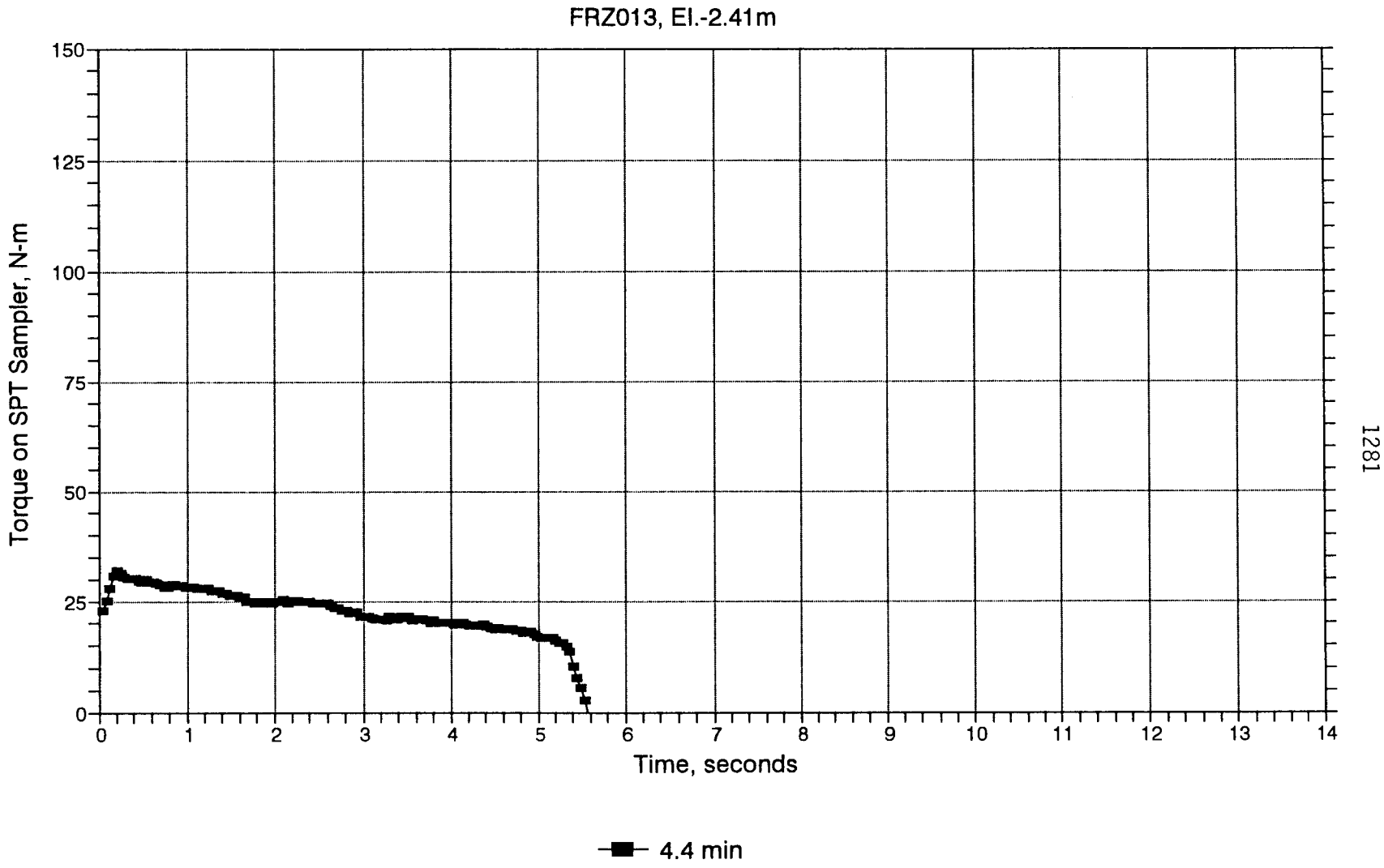


Figure K.21 SPT-T: FRZ013, Elev. -2.41 m

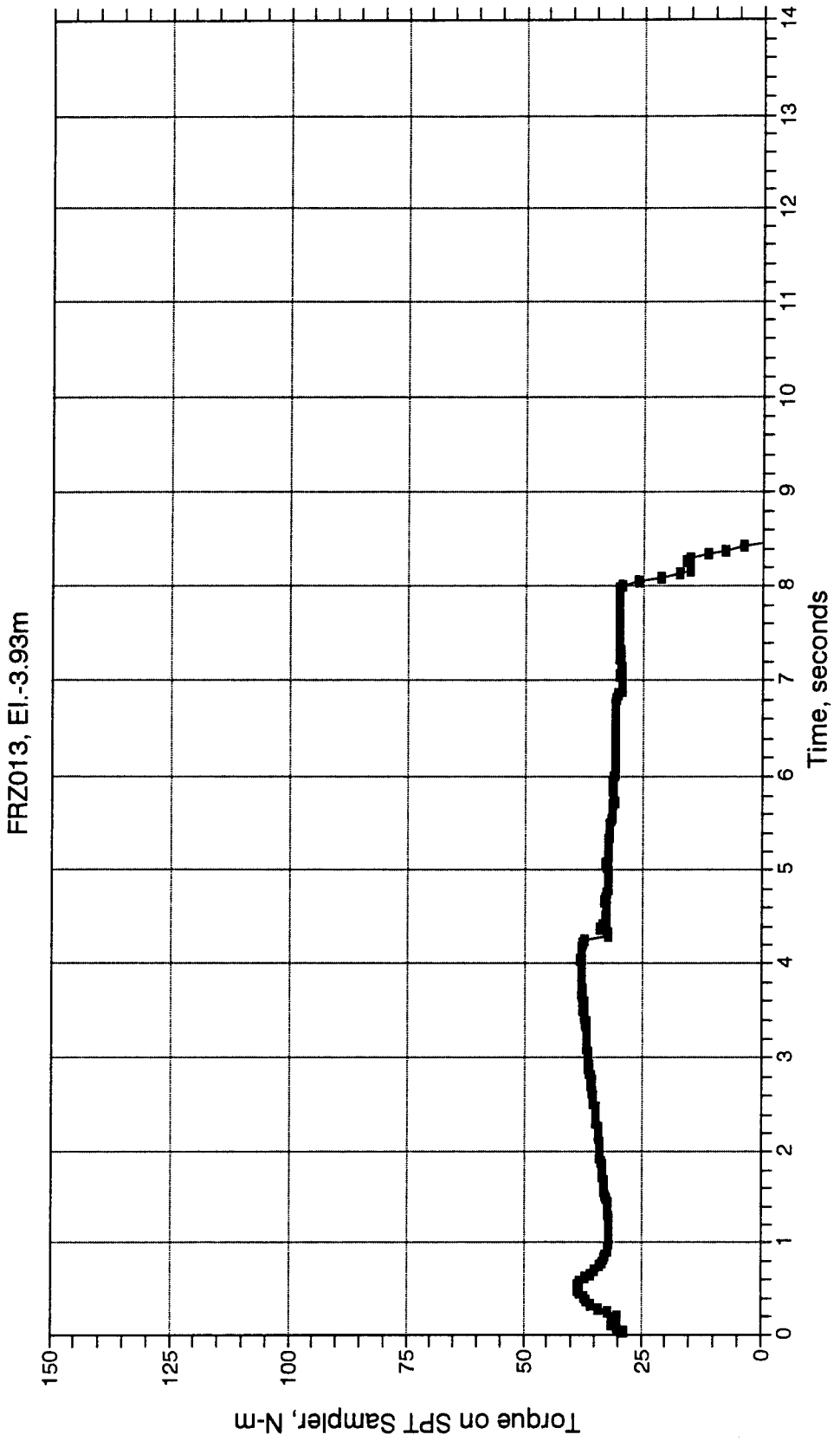


Figure K.22 SPT-T: FRZ013, Elev. -3.93 m

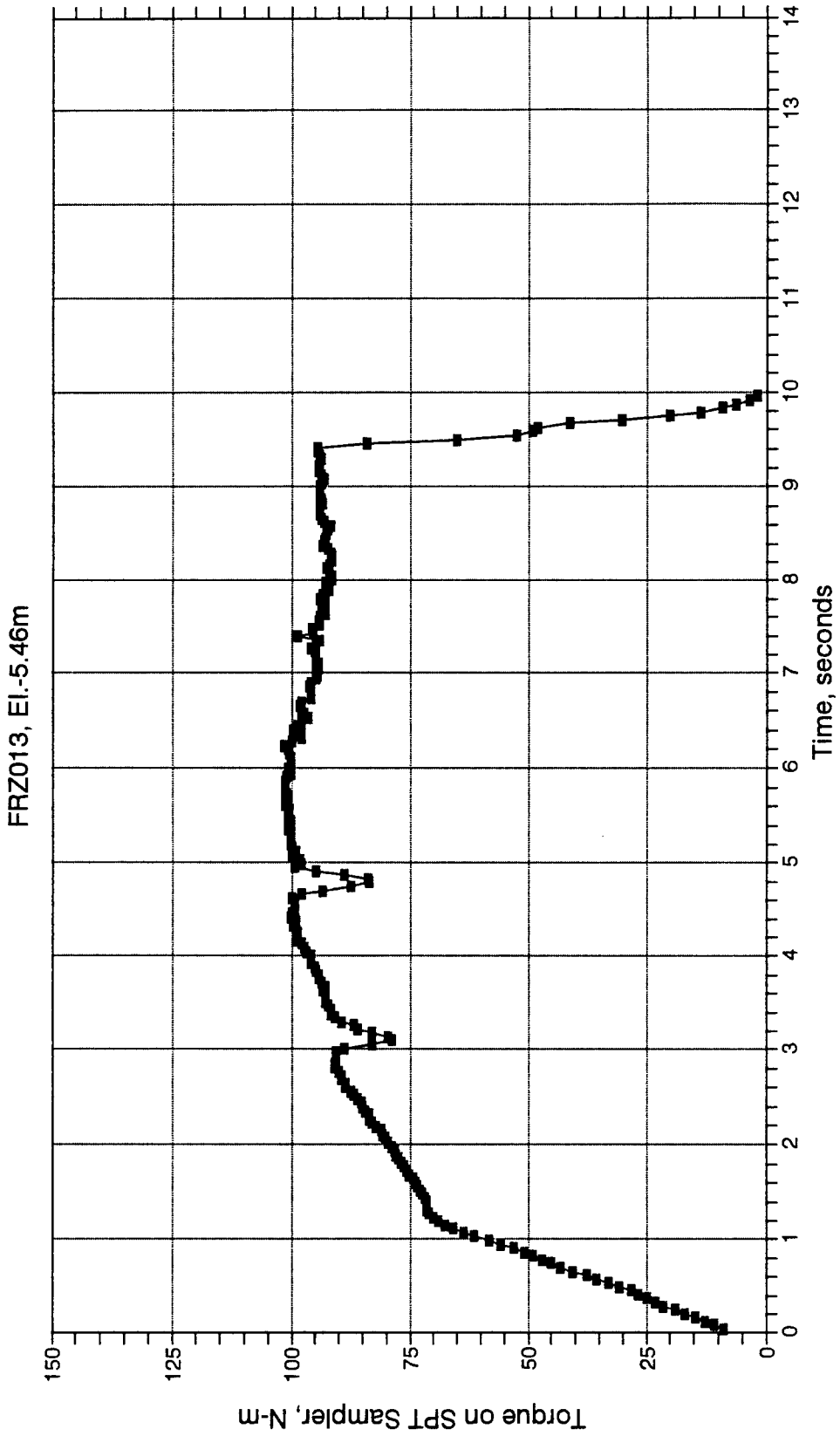


Figure K.23 SPT-T: FRZ013, Elev. -5.46 m

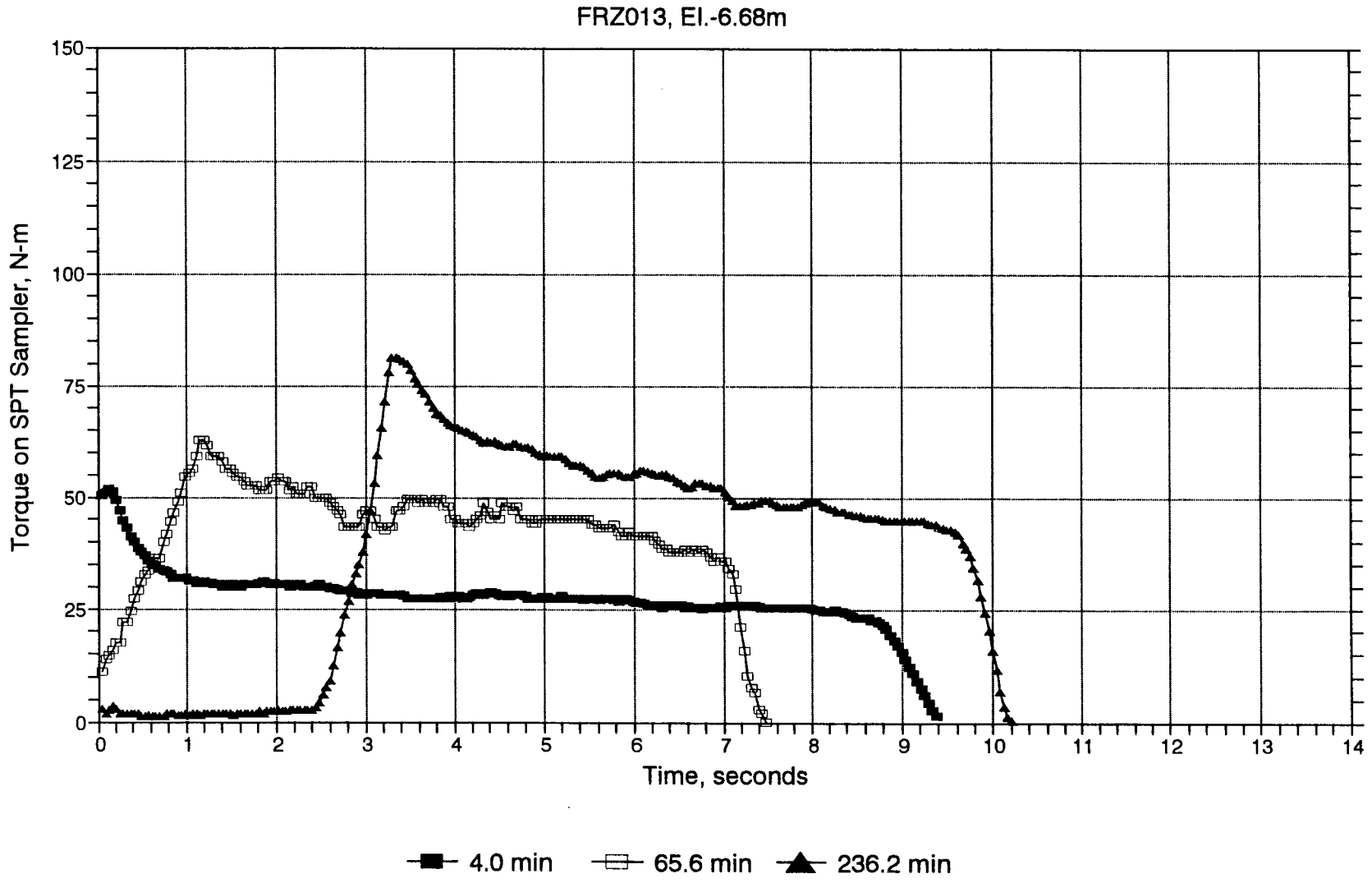


Figure K.24 SPT-T: FRZ013, Elev. -6.68 m

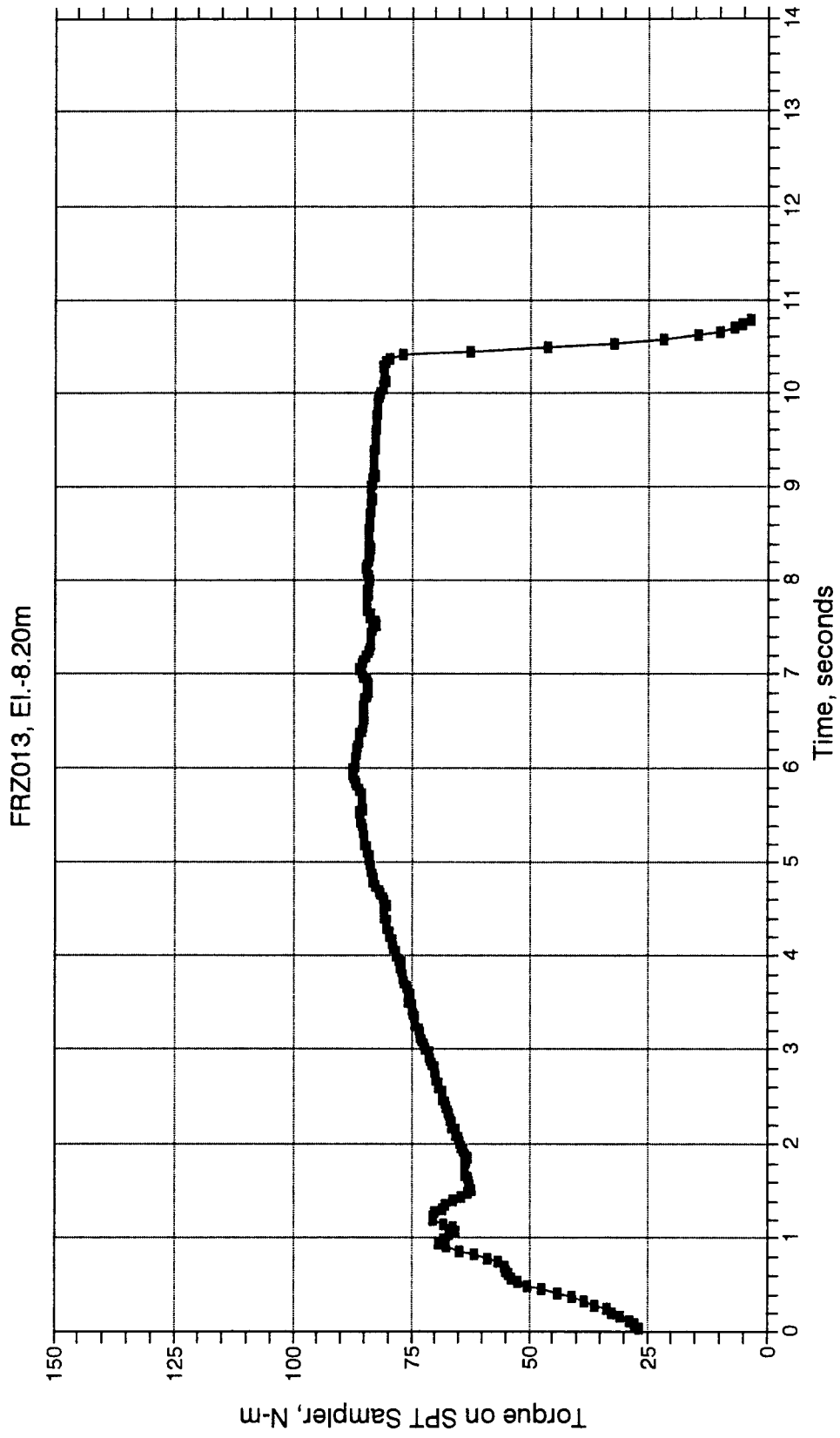


Figure K.25 SPT-T: FRZ013, Elev. -8.20 m

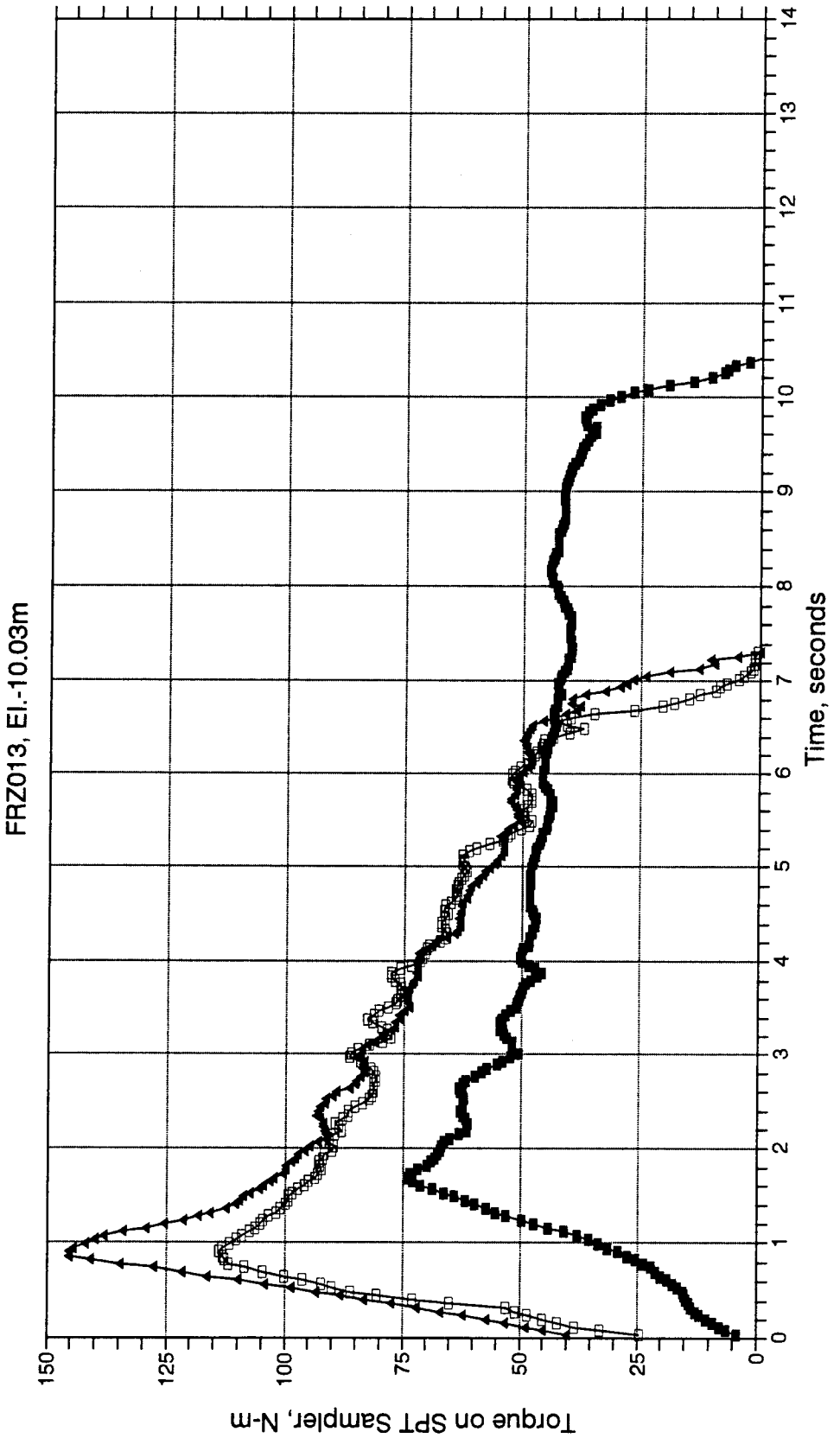


Figure K.26 SPT-T: FRZ013, Elev. -10.03 m

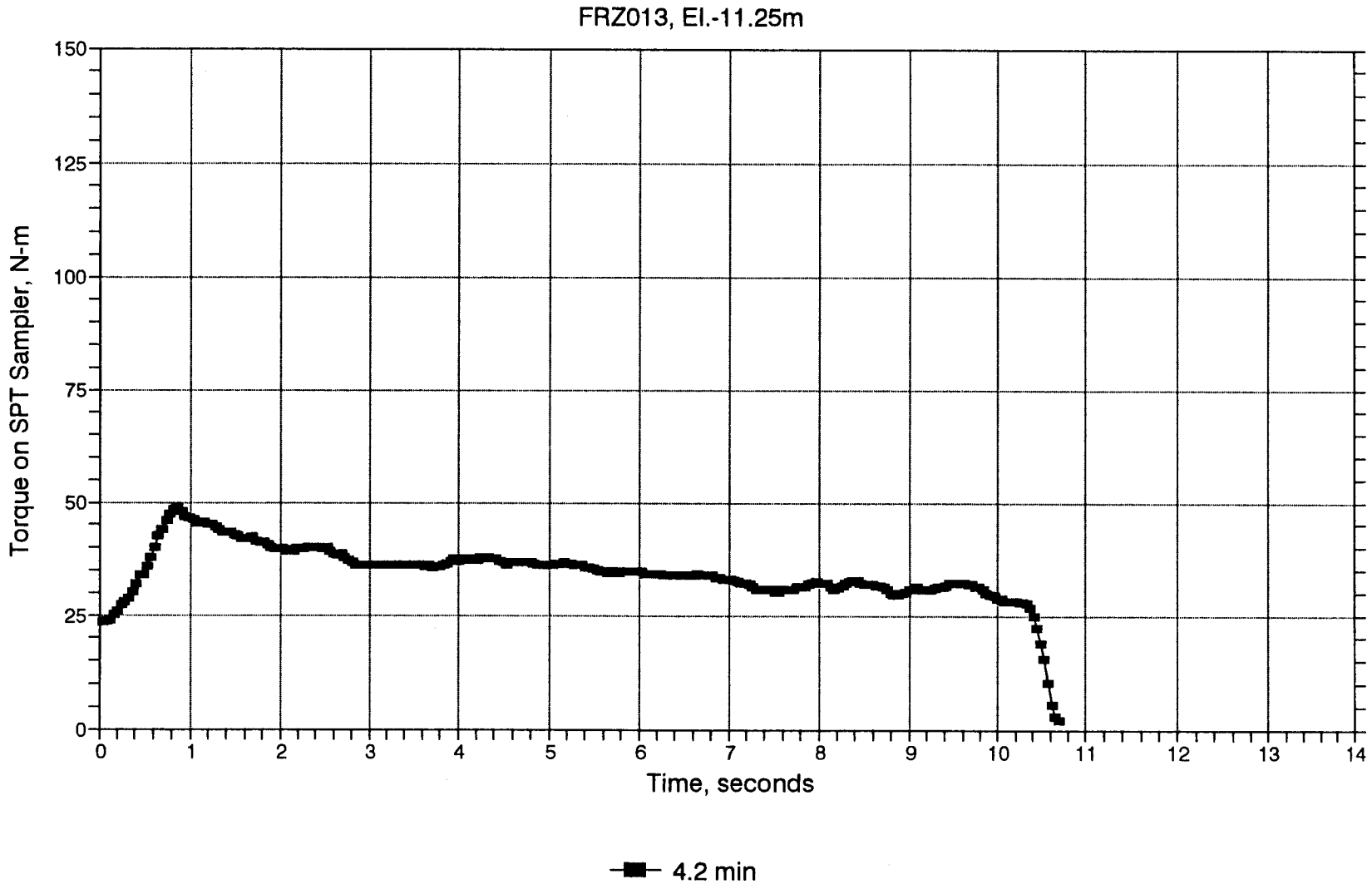


Figure K.27 SPT-T: FRZ013, Elev. -11.25 m

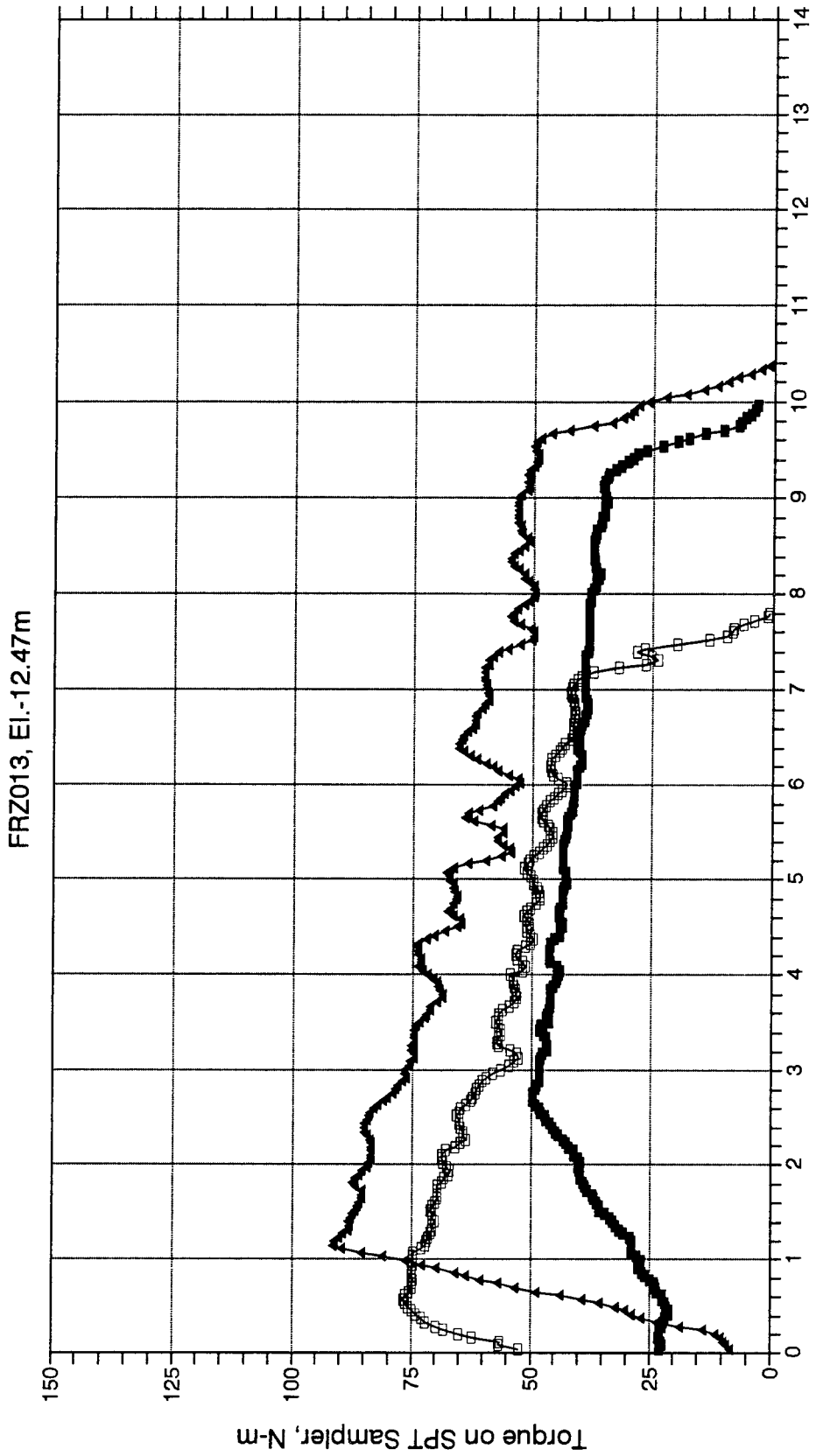


Figure K.28 SPT-T: FRZ013, Elev. -12.47 m

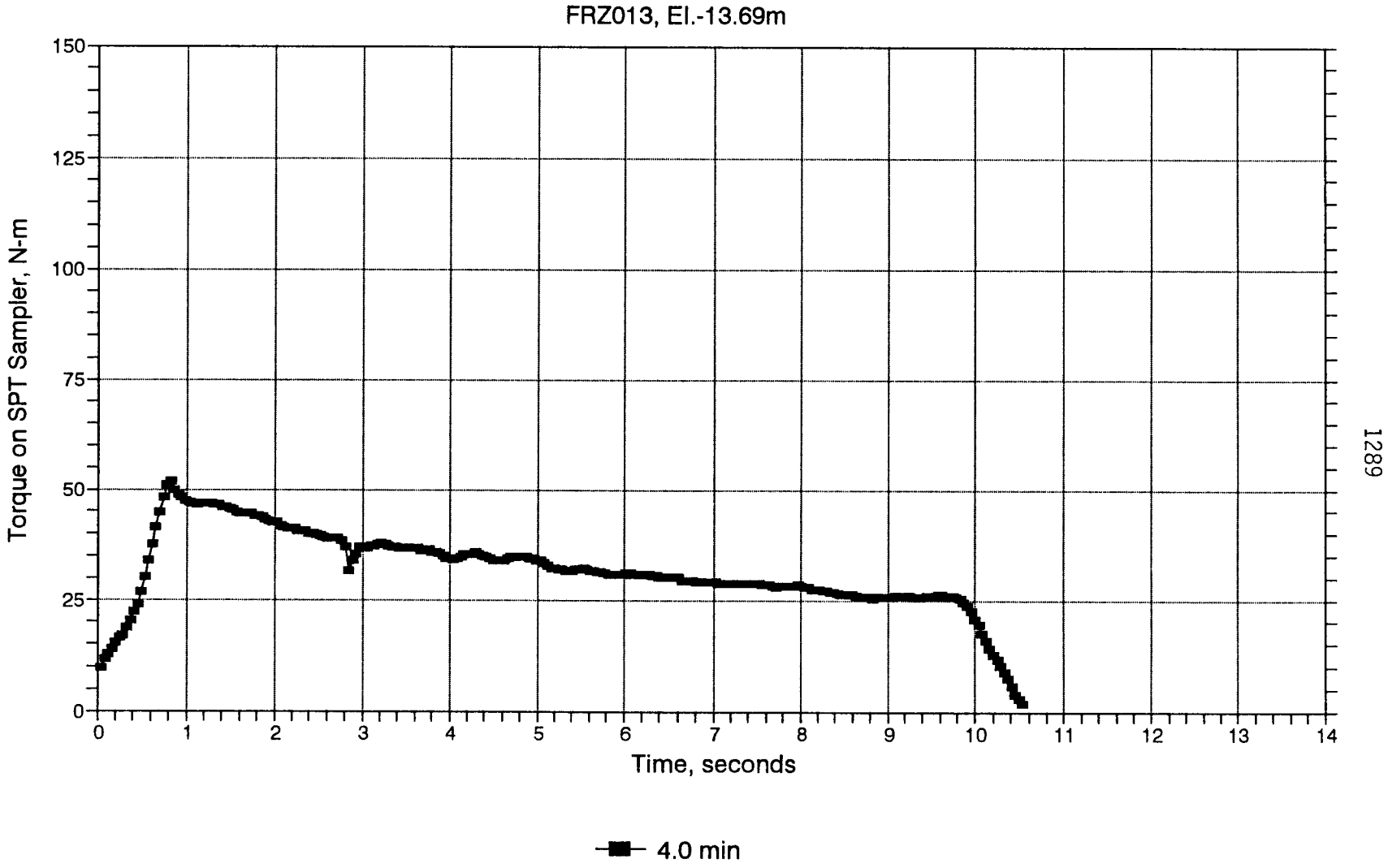


Figure K.29 SPT-T: FRZ013, Elev. -13.69 m

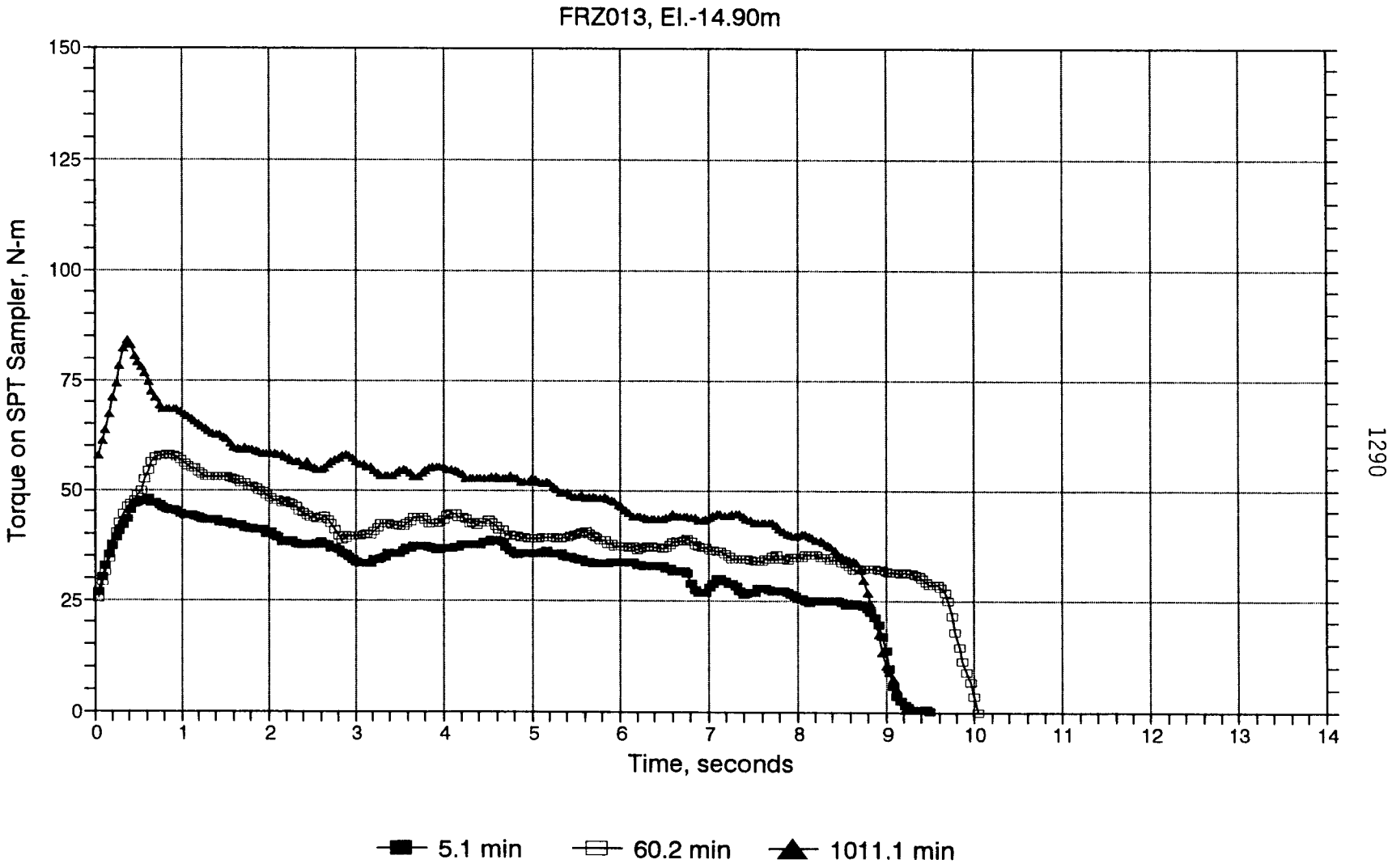


Figure K.30 SPT-T: FRZ013, Elev. -14.90 m

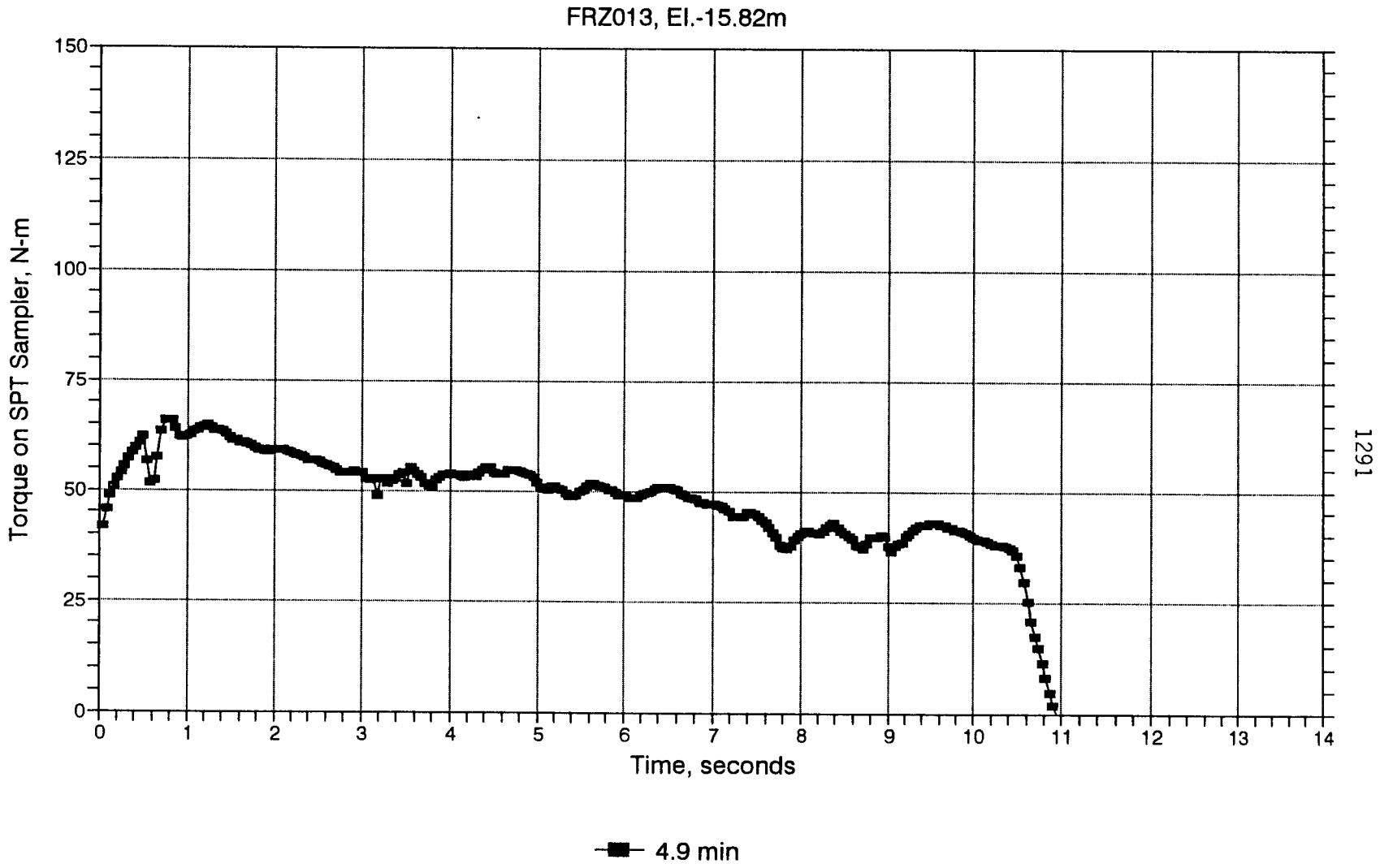


Figure K.31 SPT-T: FRZ013, Elev. -15.82 m

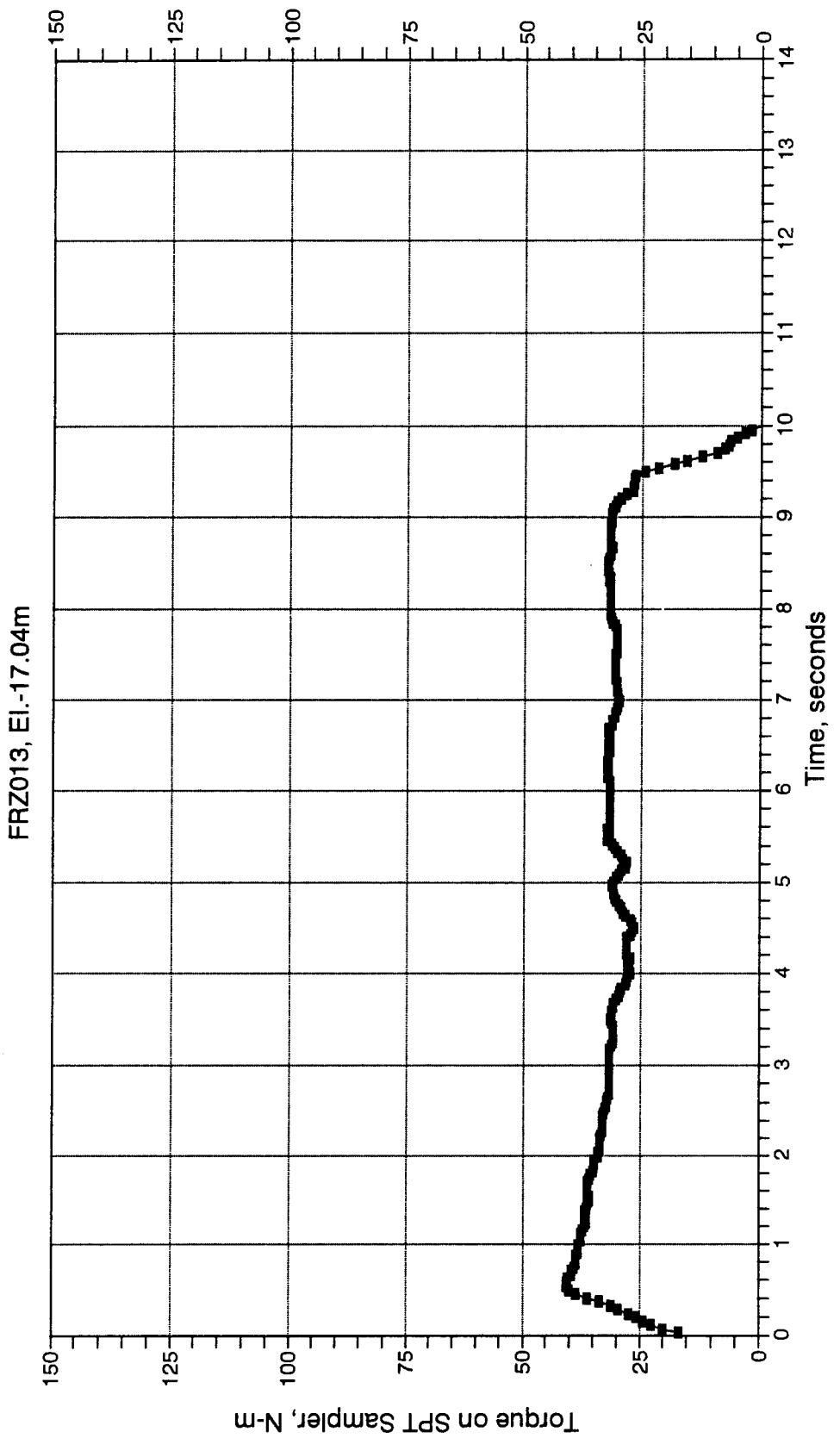


Figure K.32 SPT-T: FRZ013, Elev. -17.04 m

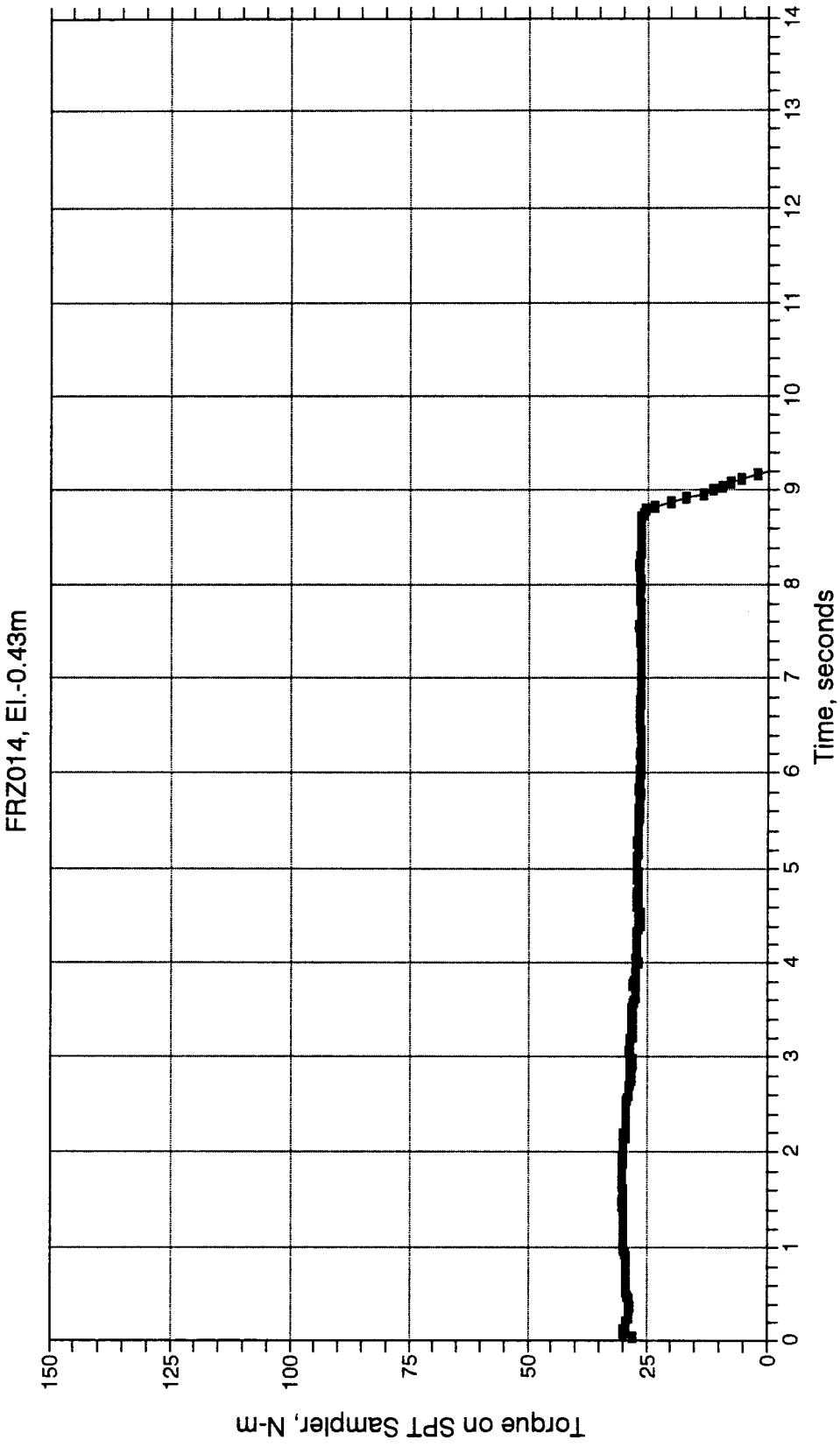


Figure K.33 SPT-T: FRZ014, Elev. -0.43 m

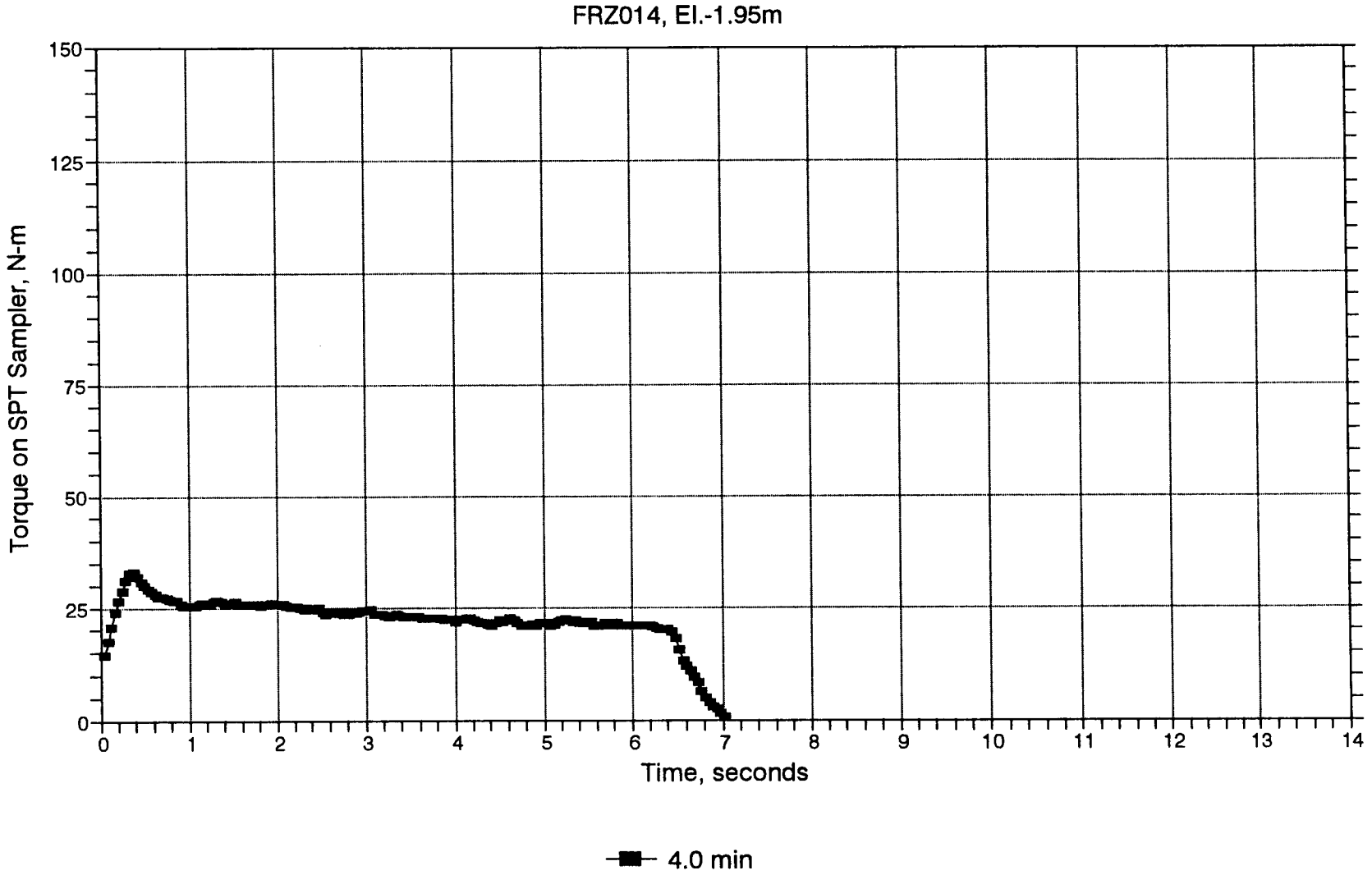


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Figure K.34 SPT-T: FRZ014, Elev. -1.95 m

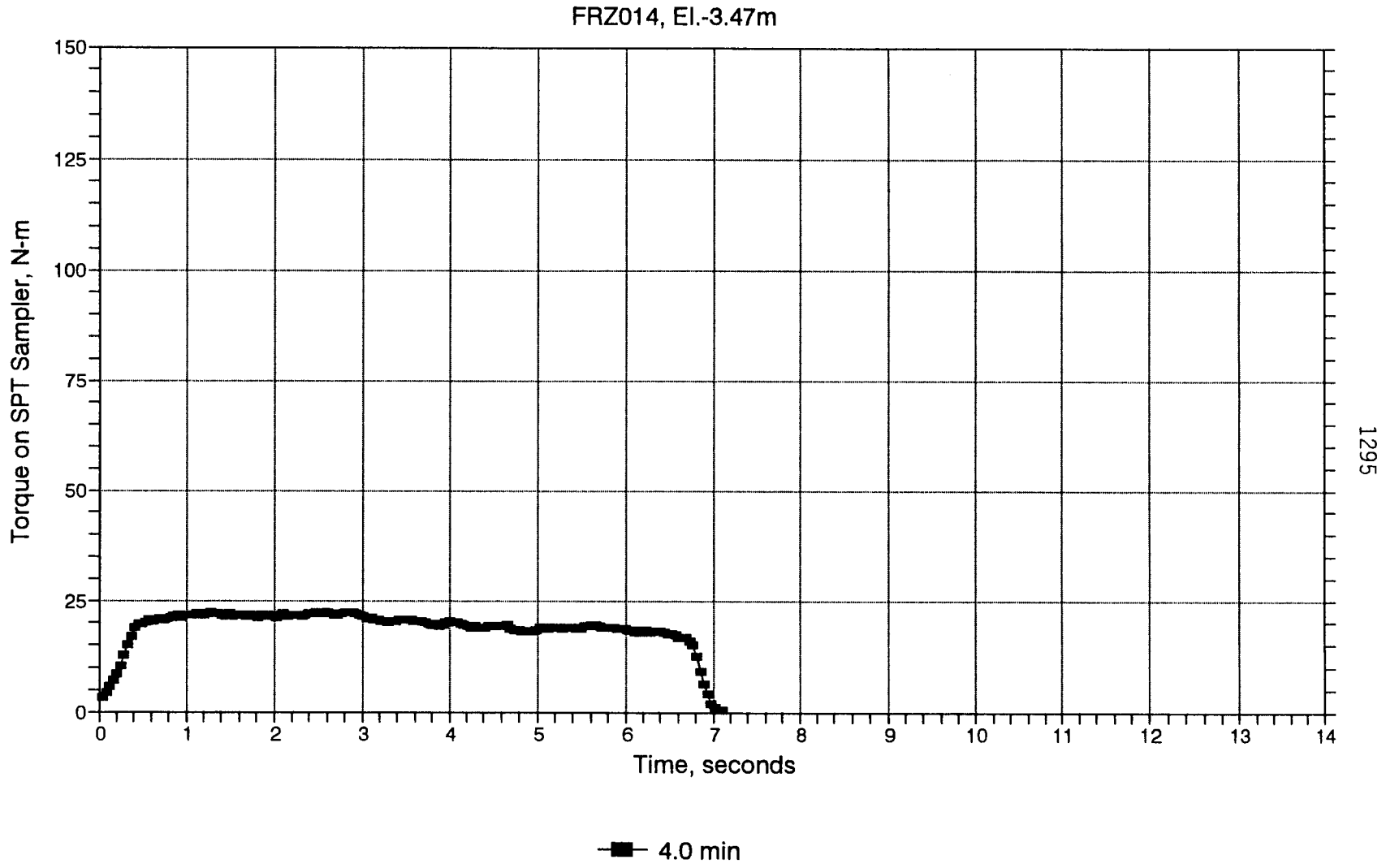

Figure K.35 SPT-T: FRZ014, Elev. -3.47 m

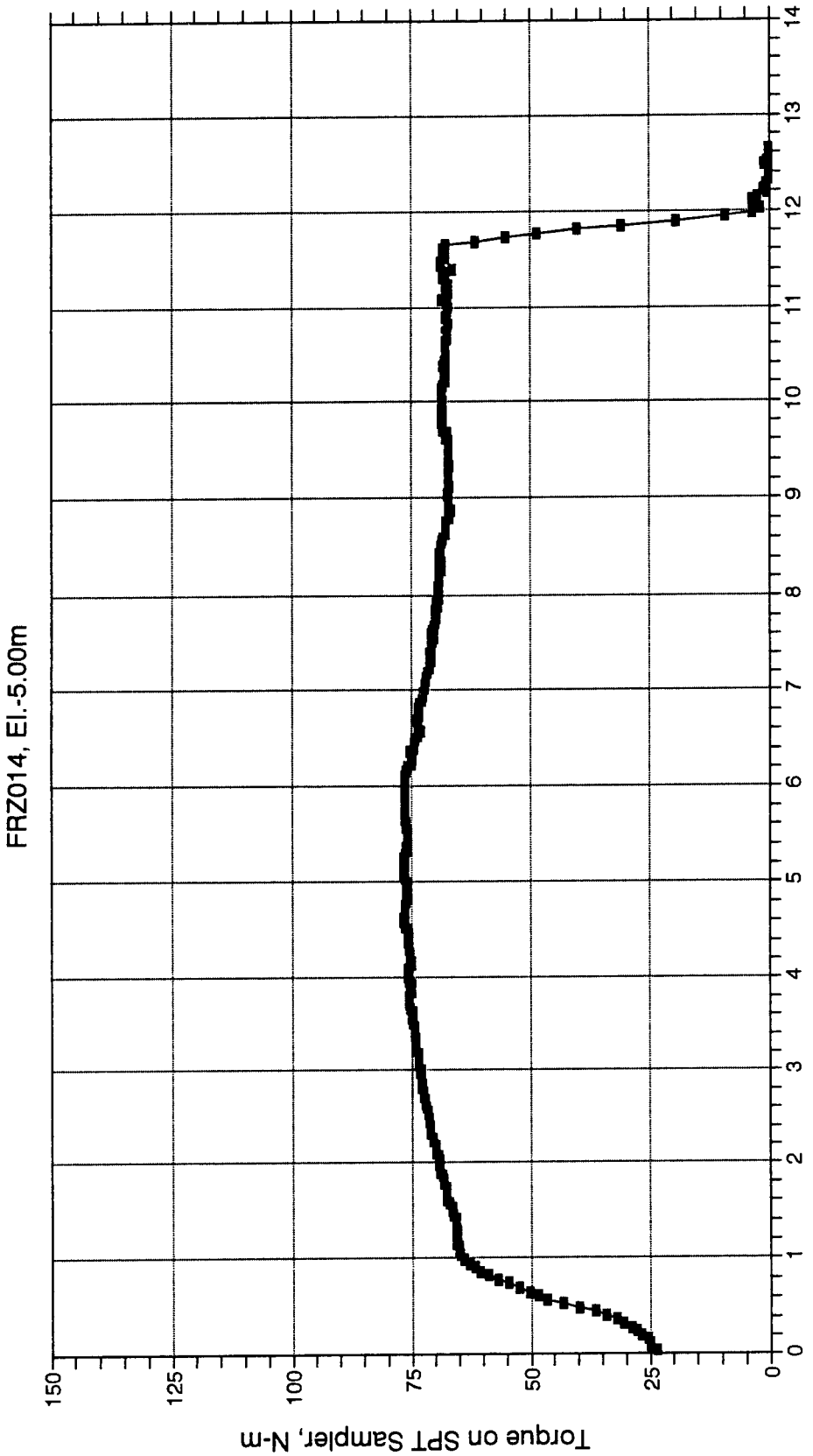

Figure K.36 SPT-T: FRZ014, Elev. -5.00 m

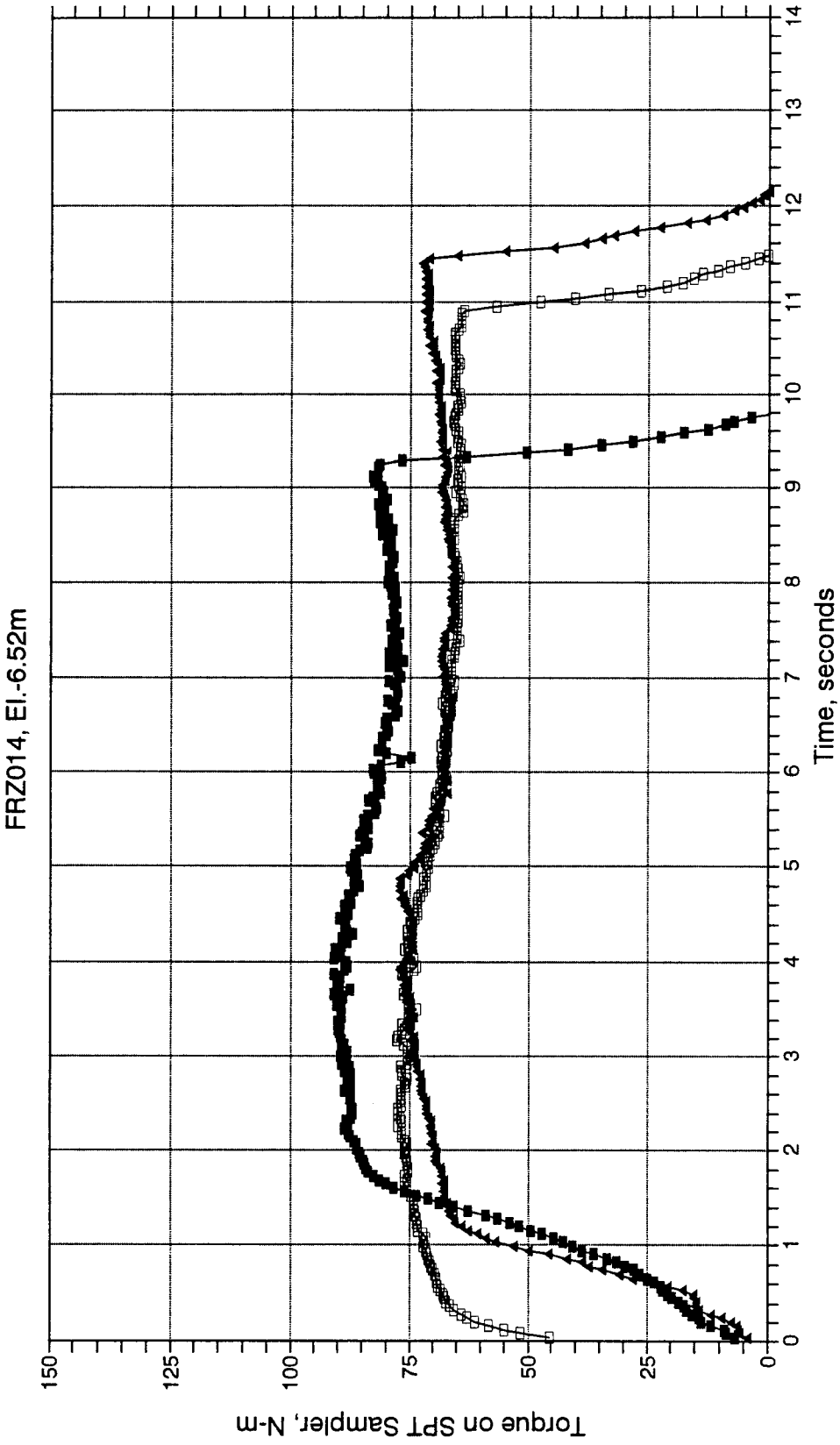

Figure K.37 SPT-T: FRZ014, Elev. -6.52 m

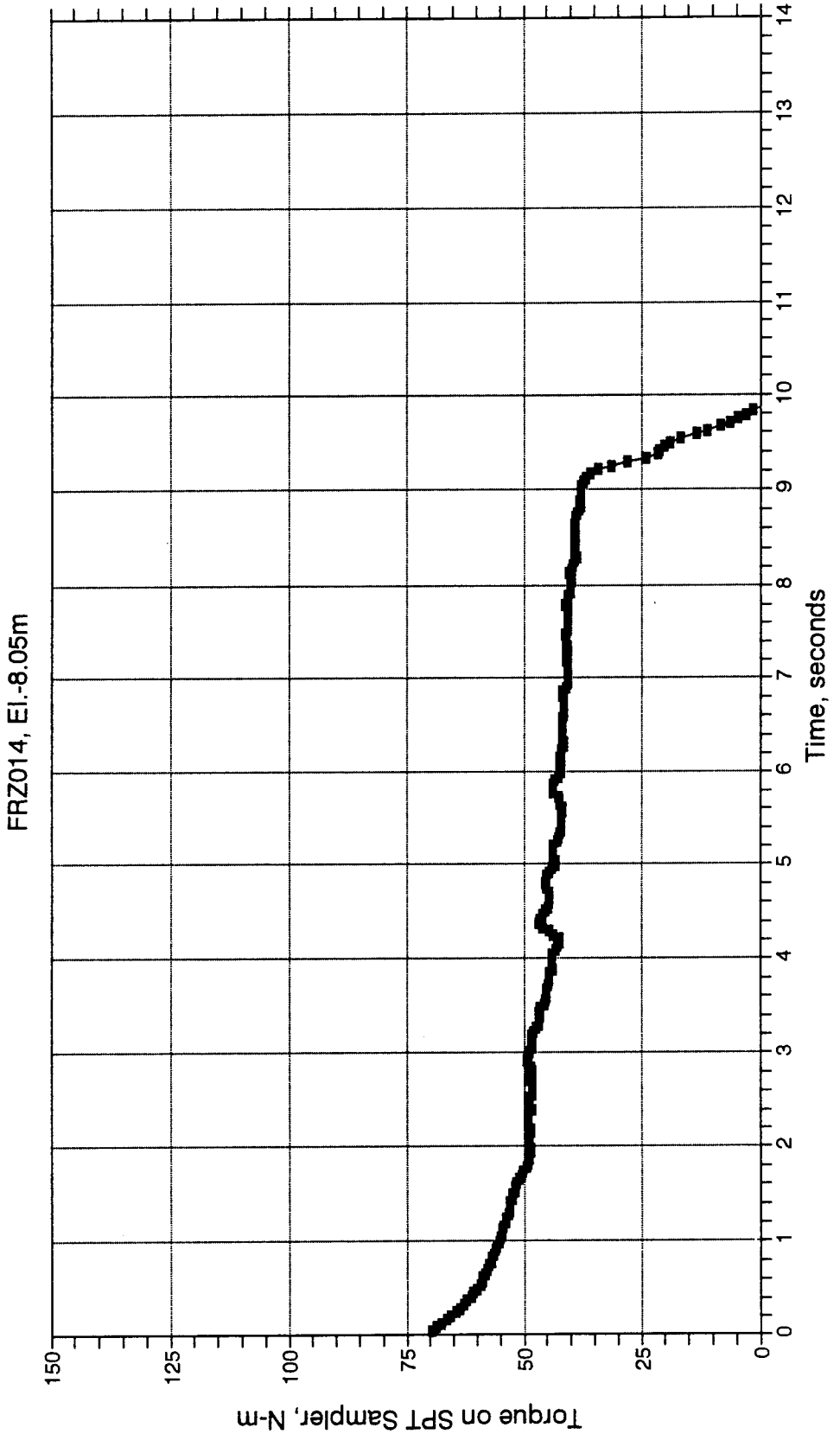

Figure K.38 SPT-T: FRZ014, Elev. -8.05 m

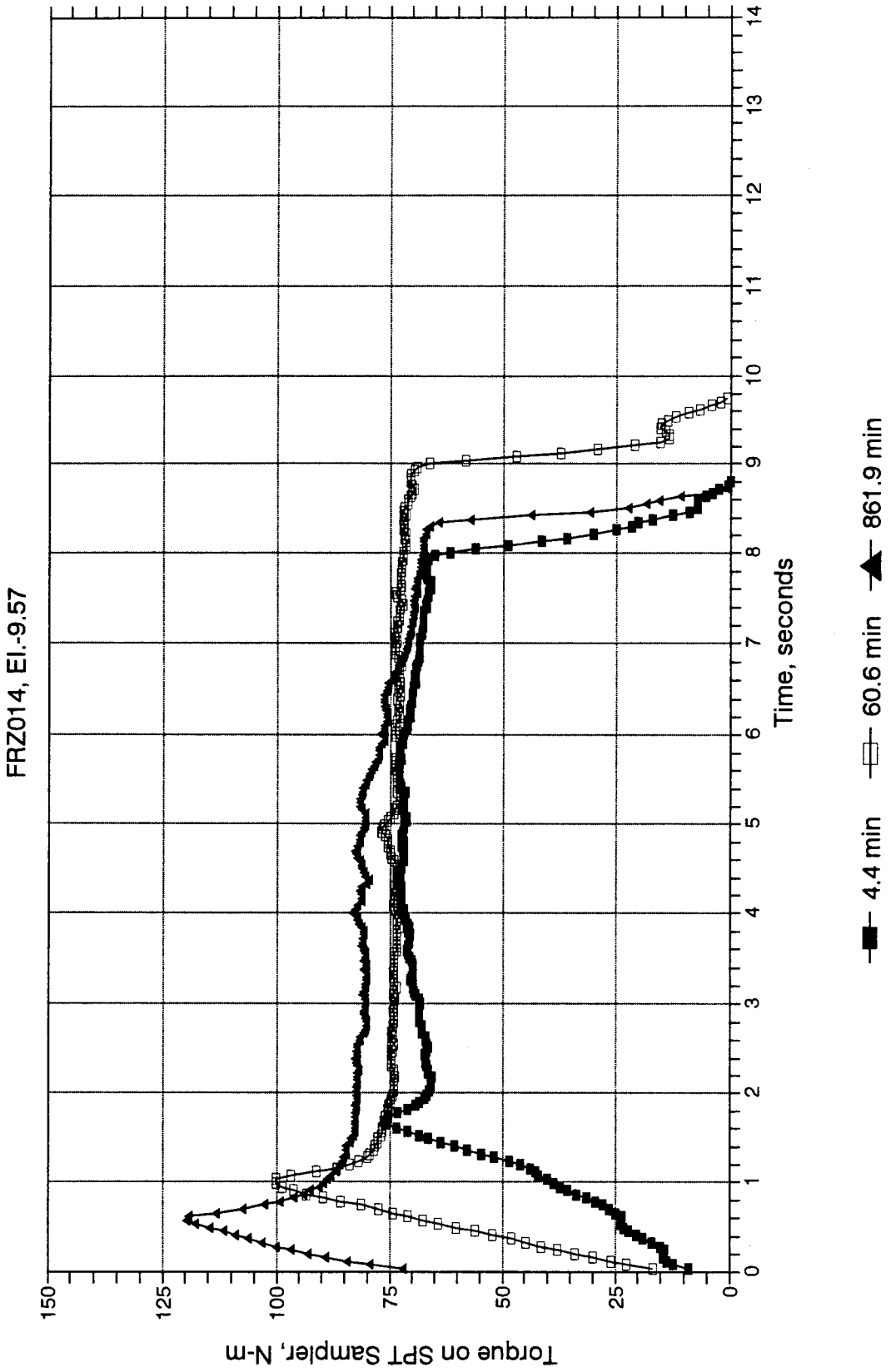

Figure K.39 SPT-T: FRZ014, Elev. -9.57 m

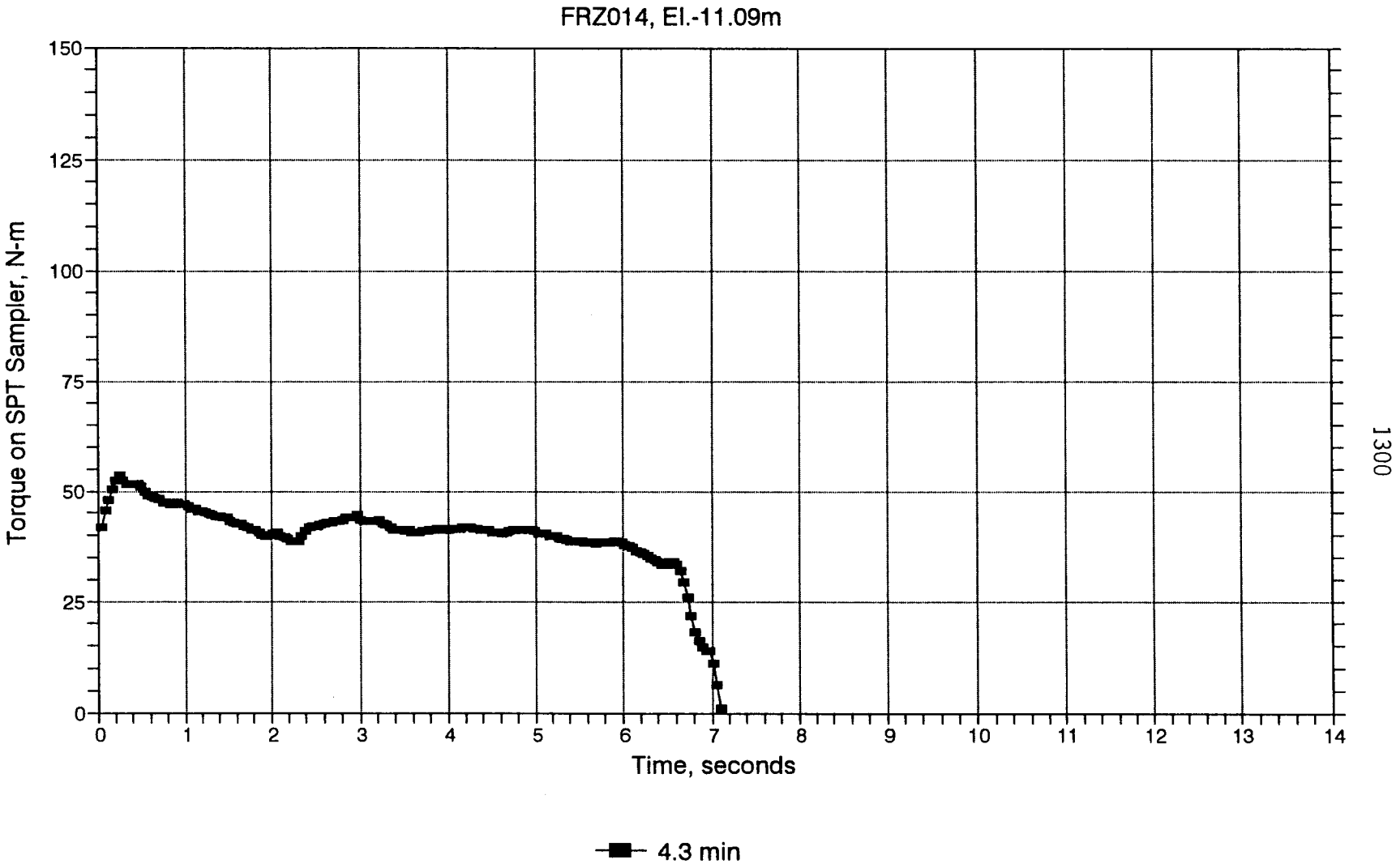

Figure K.40 SPT-T: FRZ014, Elev. -11.09 m

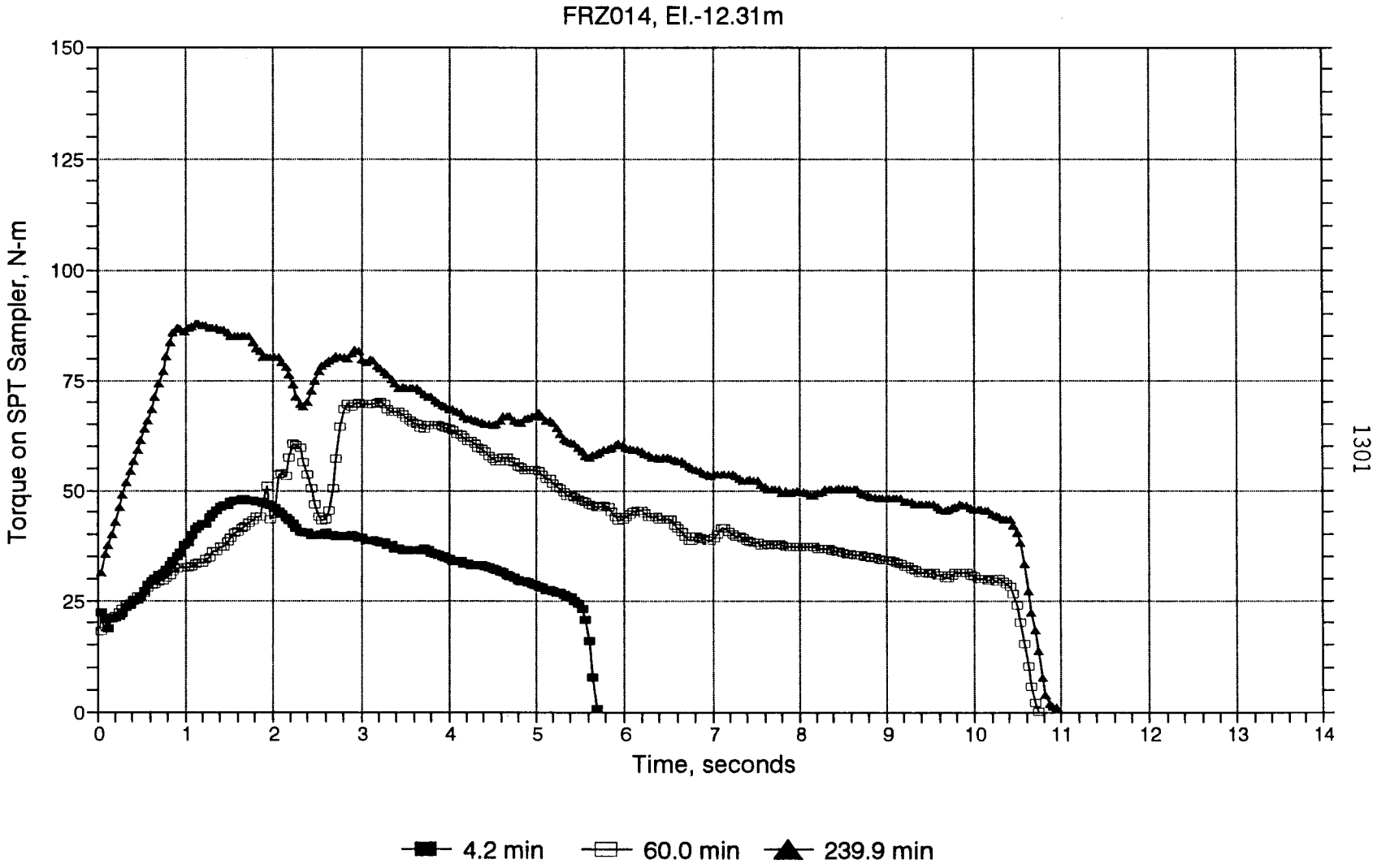

Figure K.41 SPT-T: FRZ014, Elev. -12.31 m

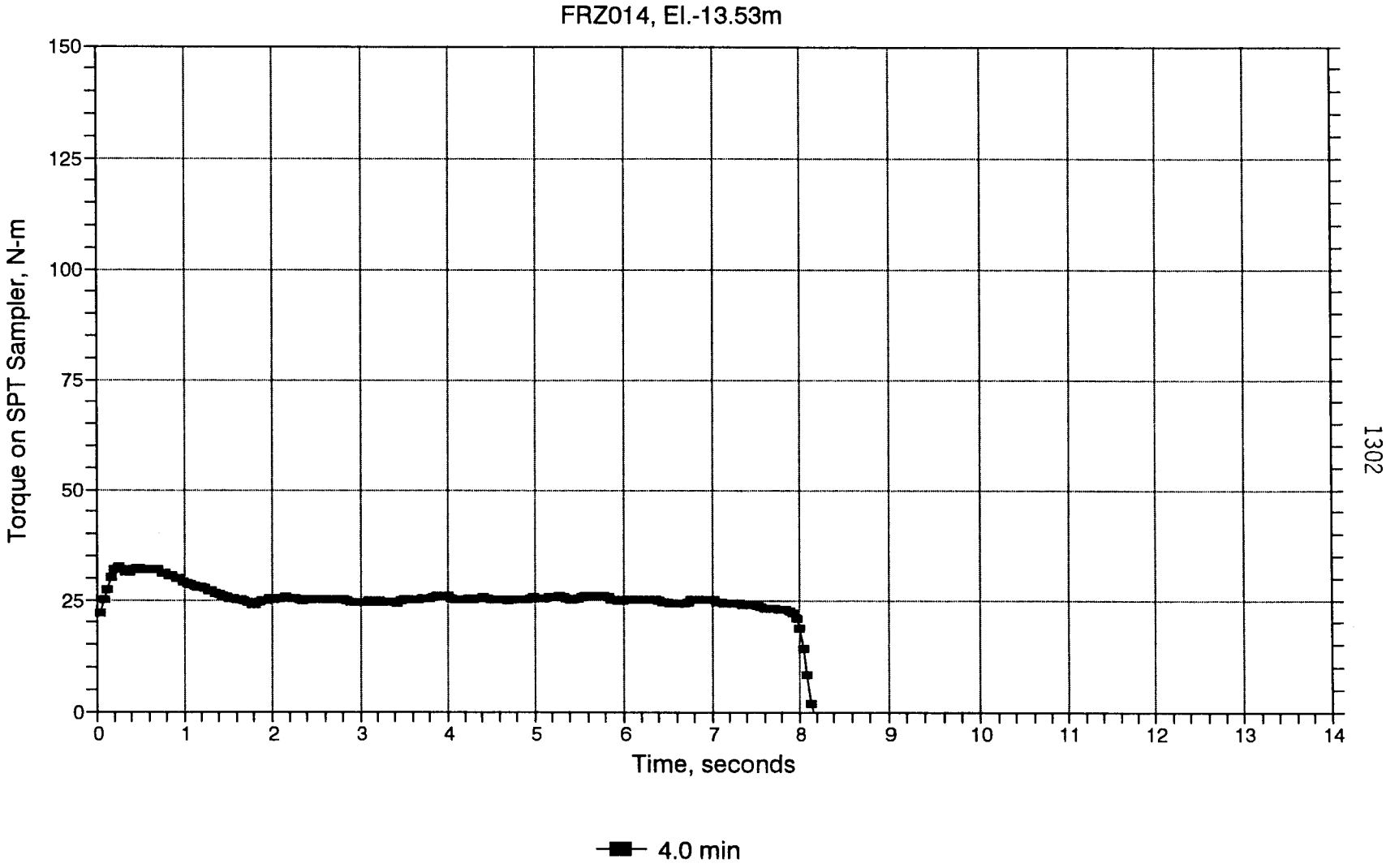

Figure K.42 SPT-T: FRZ014, Elev. -13.53 m

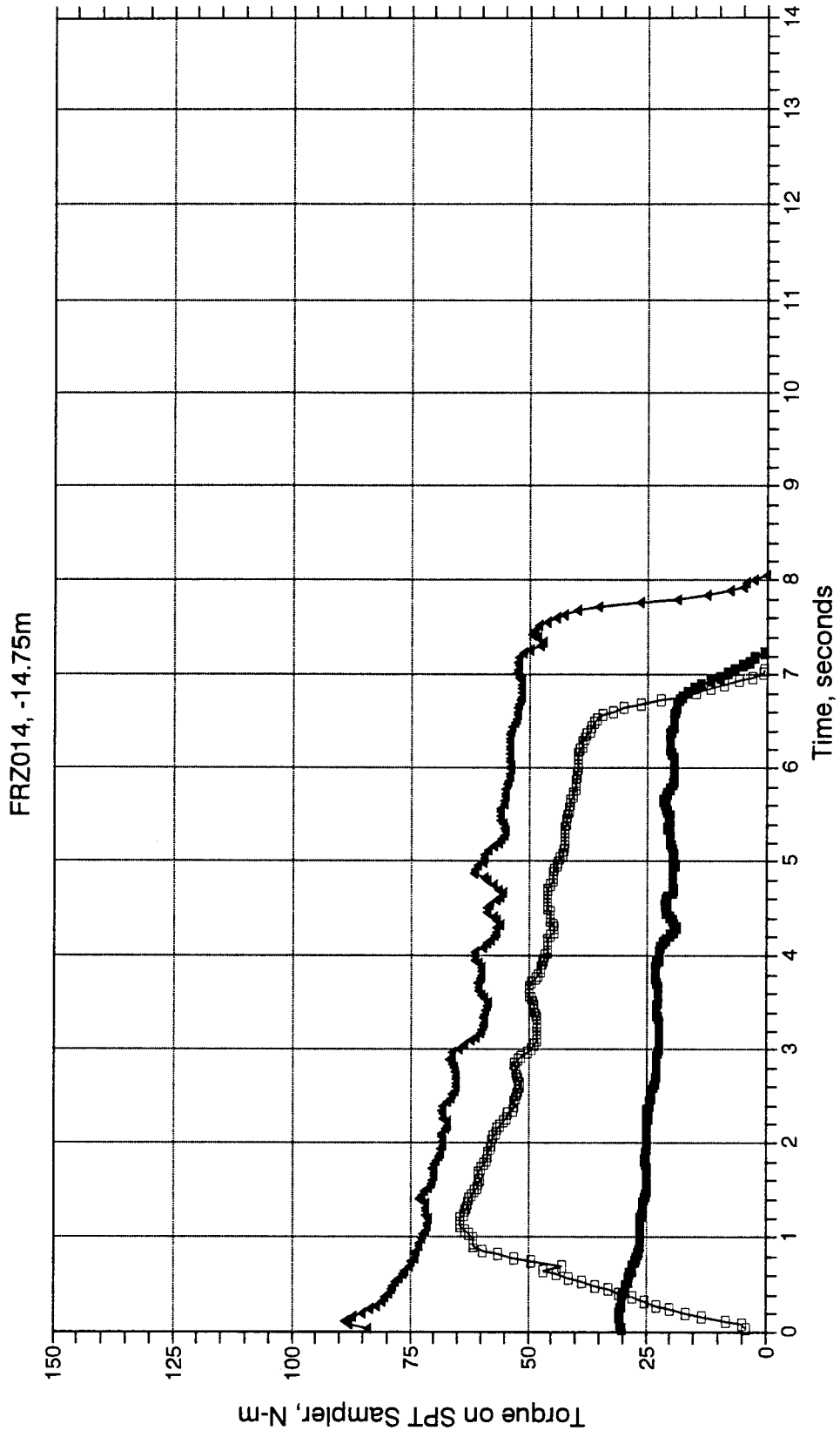

Figure K.43 SPT-T: FRZ014, Elev. -14.75 m

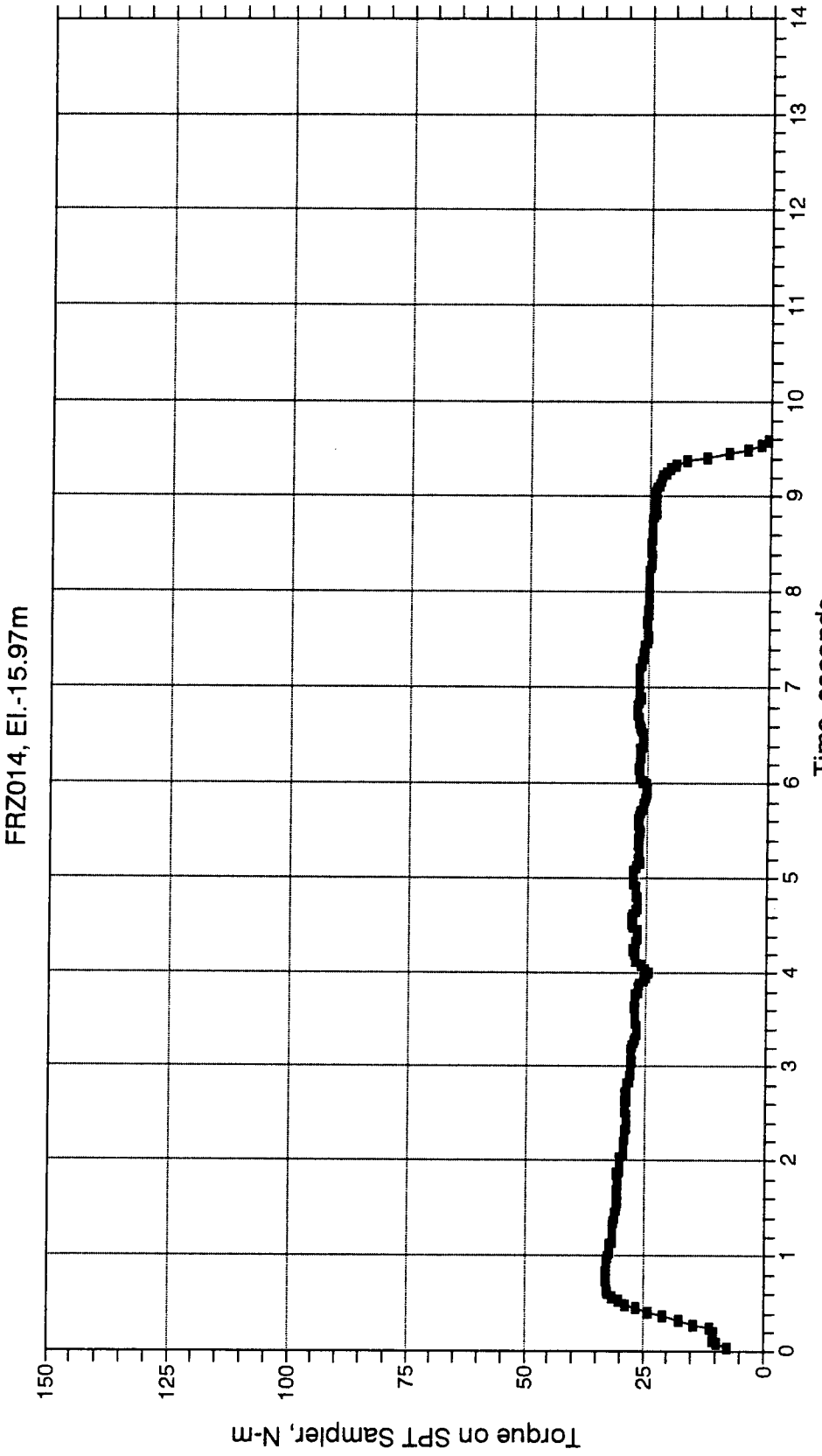

Figure K.44 SPT-T: FRZ014, Elev. -15.97 m

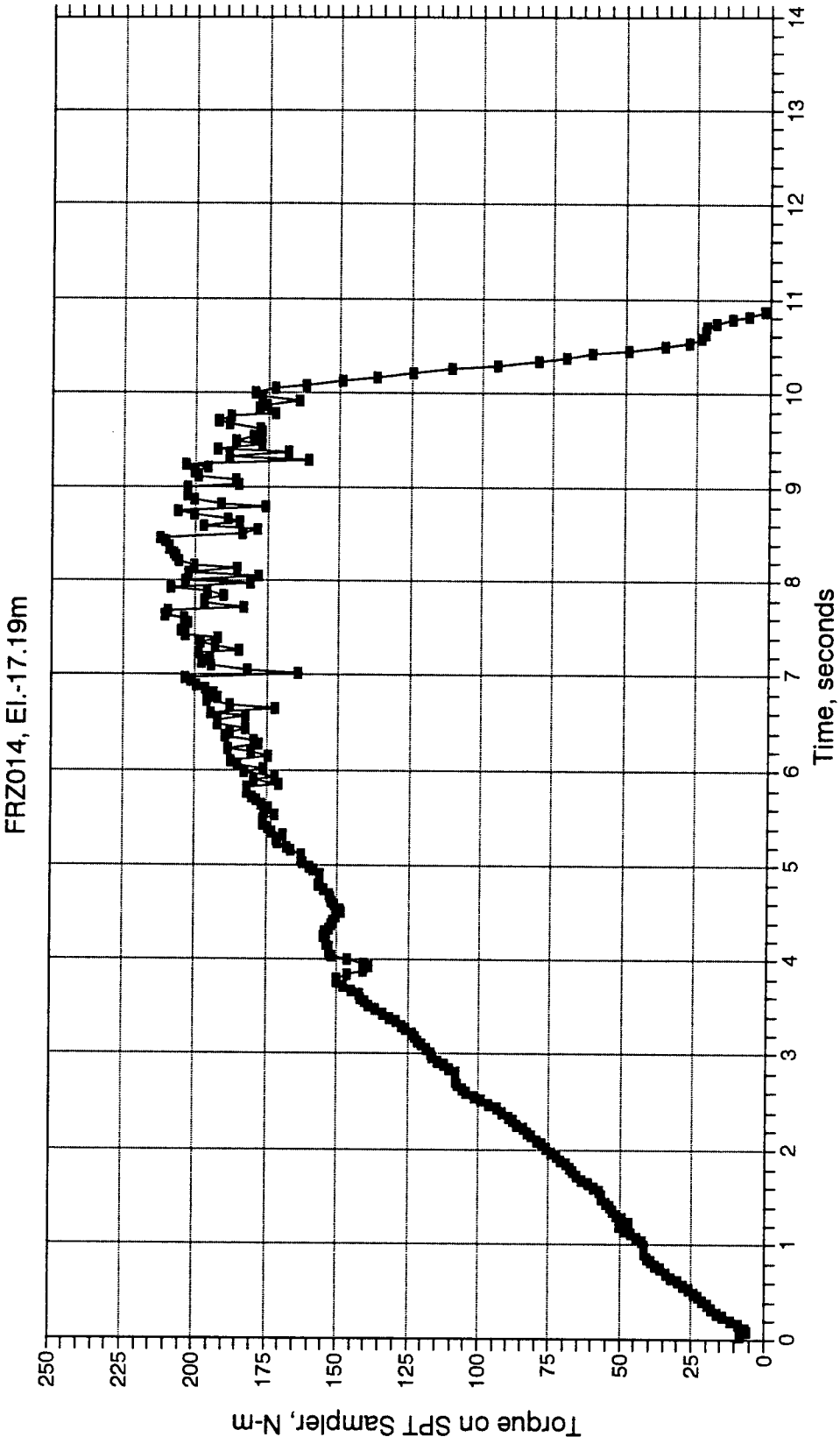

Figure K.45 SPT-T: FRZ014, Elev. -17.19 m

Table K.3 SPT-T at Vilano East: FRZ011

Lake City FDOT Drill Crew, 08 Sep 98, Ground Surface Elevation = +1.45m

CME Automatic Hammer, AW Rods, Bentonite Drill Mud, Set BW Casing to -7.39m, Sampler Diameter = 50.8mm

Start of Test		Elapsed		Blows	Blows	Blows	N SPT		SPT-T	Sampler	Side
Date	Time	Time	Elev.	0.00 to	0.15 to	0.30 to	blows per	Soil Description	Torque	Penetr.	Shear
mmdd	hhmmss	minutes	m,msl	0.15m	0.30m	0.45m	0.30m		N-m	mm	kPa
09/08	09:39:11	7.2	-0.38	7	8	11	19	Sl.Silty Fn.-Med.Sand	63.88	457.2	33.8
09/08	09:55:21	4.4	-1.90	9	13	10	23	Shelly Fn.-Med.Sand	49.03	457.2	25.9
09/08	10:42:31	3.6	-3.43	5	6	9	15	Shell w/Med.-Cse.Sand	48.76	457.2	25.8
09/08	11:44:01	65.1	-3.43						42.76	457.2	22.6
09/08	14:35:38	236.7	-3.43						41.48	457.2	21.9
09/08	15:15:22	3.5	-4.95	7	10	20/0.18m	27	Sl.Shelly Fn.Sand	105.39	482.6	52.8
09/08	16:11:18	59.4	-4.95						93.53	482.6	46.9
09/09	07:32:33	980.7	-4.95						92.25	482.6	46.2
09/09	09:38:11	4.0	-6.47	9	17	20	37	Sl.Shelly Silty Fn.-Med.Sand	219.16	457.2	115.8
09/09	10:29:01	5.0	-8.00	7	13	16	29	Sl.Silty Fn.-Med.Sand	159.32	457.2	84.2
09/09	11:24:25	60.4	-8.00						152.59	457.2	80.7
09/09	14:19:32	235.5	-8.00						129.03	457.2	68.2
09/09	14:50:25	4.0	-9.52	11	20	26	46	Sl.Silty Fn.-Med.Sand	247.13	457.2	130.6

Notes: Elapsed time measured from end of sampler driving. Side Shear calculated over outside area of sampler.

Table K.4 SPT-T at Vilano East: FRZ012

Lake City FDOT Drill Crew, 08 Sep 98, Ground Surface Elevation = +1.00m

CME Automatic Hammer, AW Rods, Bentonite Drill Mud, Set BW Casing to -7.84m, Sampler Diameter = 50.8mm

Start of Test		Elapsed		Blows	Blows	Blows	N SPT		SPT-T	Sampler	Side
Date	Time	Time	Elev.	0.00 to	0.15 to	0.30 to	blows per	Soil Description	Torque	Penetr.	Shear
mmdd	hhmmss	minutes	m,msl	0.15m	0.30m	0.45m	0.30m		N-m	mm	kPa
09/08	11:19:47	3.0	-0.53	8	10	10	20	Fn.-Med. Sand	6.54	457.2	3.5
09/08	11:36:30	4.0	-2.05	7	4	6	10	Fn.-Med. Sand	14.92	457.2	7.9
09/08	12:52:44	4.0	-3.73	3	3	5	8	Shell w/Med.-Cse.Sand	27.69	457.2	14.6
09/08	13:49:40	60.9	-3.73						25.74	457.2	13.6
09/08	15:38:13	169.5	-3.73						27.75	457.2	14.7
09/08	16:19:52	4.1	-5.10	6	6	9	15	Shelly Med. Sand	29.48	457.2	15.6
09/08	17:19:27	63.7	-5.10						28.56	457.2	15.1
09/09	07:26:36	910.8	-5.10						28.72	457.2	15.2
09/09	08:09:44	4.0	-6.62	6	19	22	41	Sl.Silty Fn.Sand	138.82	457.2	73.4
09/09	09:04:29	4.2	-8.15	12	19	26	45	Sl.Shelly Silty Fn.Sand	355.39	457.2	187.8
09/09	10:00:42	60.4	-8.15						311.12	457.2	164.4
09/09	12:53:24	233.1	-8.15						239.73	457.2	126.7
09/09	13:48:19	4.0	-9.67	6	18	27	45	Silty Fn.Sand	178.32	457.2	94.3

Notes: Elapsed time measured from end of sampler driving. Side Shear calculated over outside area of sampler.

Table K.5 SPT-T at Vilano West: FRZ013

Lake City FDOT Drill Crew, 10 Sep 98, Ground Surface Elevation = +0.95m

CME Automatic Hammer, AW Rods, Bentonite Drill Mud, Set BW Casing to -9.27m, Sampler Diameter = 50.8mm

Start of Test		Elapsed		Blows	Blows	Blows	N SPT		SPT-T	Sampler	Side
Date	Time	Time	Elev.	0.00 to	0.15 to	0.30 to	blows per	Soil Description	Torque	Penetr.	Shear
mmdd	hhmmss	minutes	m,msl	0.15m	0.30m	0.45m	0.30m		N-m	mm	kPa
09/10	08:50:17	3.0	-0.88	WH/0.66m			0	Silty Fn. Sand w/Shell	42.43	660.4	15.6
09/10	09:06:19	4.4	-2.41	1	1/0.41m		1	Cl.Si.Shelly Fn.Sand	31.94	558.8	13.9
09/10	09:19:35	3.3	-3.93	1	1	3/0.18m	4	Clayey Silty Fn.Sand	38.72	482.6	19.4
09/10	09:33:48	4.0	-5.46	2	2	3	5	Clayey Fn.Sand	101.51	457.2	53.7
09/10	10:43:26	4.0	-6.68	WH/0.45m			0	Soft Clay	51.75	457.2	27.4
09/10	11:44:59	65.6	-6.68						62.65	457.2	33.1
09/10	14:35:37	236.2	-6.68						81.30	457.2	43.0
09/10	15:19:42	4.5	-8.20	1/0.20m	1/0.10m	2	3	Silty Fn.Sand/Cl.Fn.Sand	87.58	457.2	46.3
09/10	16:01:18	4.5	-10.03	WH/0.45m			0	Silty Fn.Sandy Clay	73.72	457.2	39.0
09/10	16:56:54	60.1	-10.03					w/Clay Seams	114.03	457.2	60.3
09/11	07:43:28	946.7	-10.03						145.47	457.2	76.9
09/11	09:22:13	4.2	-11.25	WR/0.23m	WM/0.30m	WH/0.15	0	Med.Stiff Organic Clay	48.89	685.8	17.3
09/11	09:40:50	4.0	-12.47	WR/0.53m		WM/0.15	0	Med.Stiff Clay	49.55	685.8	17.6
09/11	10:38:54	62.1	-12.47						76.41	685.8	27.1
09/11	13:55:29	258.7	-12.47						91.48	685.8	32.5
09/11	14:23:42	4.0	-13.69	WR/0.20m	WH/0.48m		0	Med.Stiff Organic Clay	51.73	685.8	18.4
09/11	14:44:41	5.1	-14.90	WR/0.43m		WH/0.15	0	Med.Stiff Clay	47.79	584.2	19.9
09/11	15:39:48	60.2	-14.90						58.03	584.2	24.1
09/12	07:30:42	1011.1	-14.90						84.03	584.2	34.9
09/12	08:19:28	4.9	-15.82	WR/0.38m		WH/0.30m	0	Med.Stiff Clay w/Fn.Sd.Seams	65.93	685.8	23.4
09/12	08:40:22	4.0	-17.04	WR/0.51m		WM/0.15	0	Med. Stiff Clay	40.63	660.4	15.0

Notes: Elapsed time measured from end of sampler driving. Side Shear calculated over outside area of sampler.

Penetrations >0.45m were caused by rod weight penetration and often recognized during sample inspection.

WR = Weight of Rods, WM = Weight of Man Pushing Rods, WH = Weight of Hammer.

Table K.6 SPT-T at Vilano West: FRZ014

Lake City FDOT Drill Crew, 10 Sep 98, Ground Surface Elevation = +1.40m

CME Automatic Hammer, AW Rods, Bentonite Drill Mud, Set BW Casing to -12.16m, Sampler Diameter = 50.8mm

Start of Test		Elapsed		Blows	Blows	Blows	N SPT		SPT-T	Sampler	Side
Date	Time	Time	Elev.	0.00 to	0.15 to	0.30 to	blows per	Soil Description	Torque	Penetr.	Shear
mmdd	hhmmss	minutes	m,msl	0.15m	0.30m	0.45m	0.30m		N-m	mm	kPa
09/10	11:13:16	4.0	-0.43	4	3	1	4	Sl.Shelly Silty Fn.Sand	30.15	457.2	15.9
09/10	11:26:39	4.0	-1.95	WH/0.23m	2/0.07m	2/0.18m	4	Sd.Sh.Clay/Si.Fn.Sand	33.01	482.6	16.5
09/10	11:40:46	4.0	-3.47	WH/0.48m			0	Fn.Sandy Clay	22.46	482.6	11.3
09/10	12:05:33	4.0	-5.00	2	7	10	17	Silty Fn.Sand w/Shell	76.55	457.2	40.5
09/10	12:51:53	5.0	-6.52	6	9	4/0.20m	12	Silty Fn.Sand w/Silt	90.84	508.0	43.3
09/10	13:54:12	67.3	-6.52						77.68	508.0	37.0
09/10	16:20:52	214.0	-6.52						77.09	508.0	36.7
09/10	16:42:45	6.2	-8.05	WH/0.38m		1/0.10m	1	Clayey Fn.Sand	69.59	482.6	34.9
09/10	17:12:02	4.4	-9.57	1/0.20m	1/0.18m	1/0.23m	2	Clayey Fn.Sand	76.16	609.6	30.3
09/10	18:08:16	60.6	-9.57						100.15	609.6	39.9
09/11	07:29:30	861.9	-9.57						119.73	609.6	47.7
09/11	08:14:47	4.3	-11.09	WH/0.45m			0	Sl.Org.Med.Stiff Clay	53.38	457.2	28.2
09/11	08:53:36	4.0	-12.31	WH/0.69m			0	Si.Sl.Org.Med.Stiff Clay	47.86	685.8	17.0
09/11	09:49:33	60.0	-12.31						70.10	685.8	24.9
09/11	12:49:26	239.9	-12.31						87.90	685.8	31.2
09/11	13:16:24	4.0	-13.53	WR/0.33m		WM/0.15m	0	Si.Sl.Org.Med.Stiff Clay	32.32	482.6	16.2
09/11	13:36:08	4.2	-14.75	WR/0.46m		WM/0.15m	0	Soft Silty Clay	30.85	609.6	12.3
09/11	14:31:59	60.0	-14.75						64.55	609.6	25.7
09/12	07:39:52	1087.9	-14.75						88.93	609.6	35.4
09/12	09:47:37	4.0	-15.97	WH/0.30m		WM/0.15m	0	Soft Silty Clay	32.98	457.2	17.4
09/12	10:11:55	4.0	-17.19	4	5	8	13	Cemented Sh.Fn.-Md.Sand	212.32	457.2	112.2

Notes: Elapsed time measured from end of sampler driving. Side Shear calculated over outside area of sampler.

Penetrations >0.45m were caused by rod weight penetration and often recognized during sample inspection.

WR = Weight of Rods, WM = Weight of Man Pushing Rods, WH = Weight of Hammer.

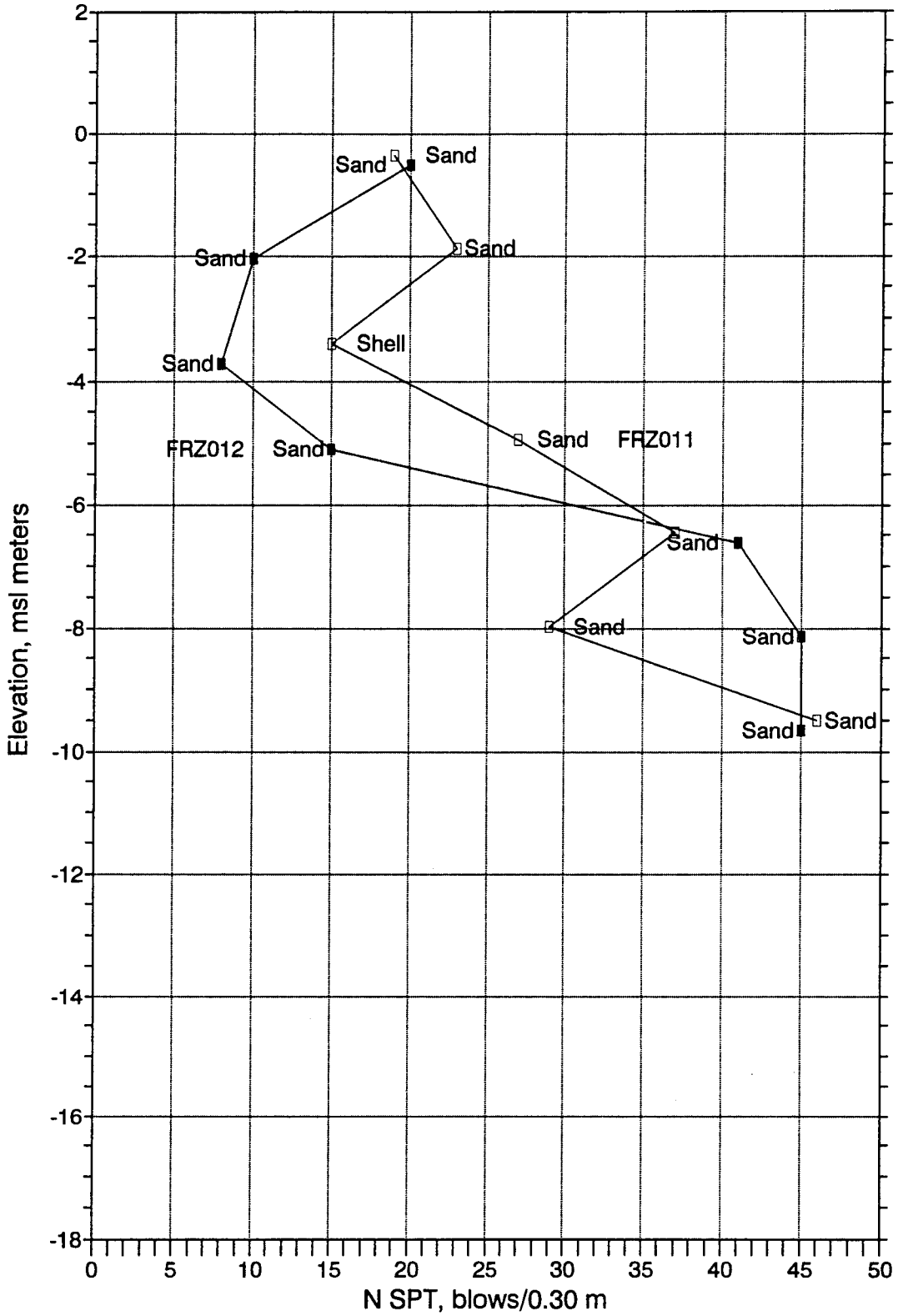

Figure K.46 SPT Profile at Vilano East

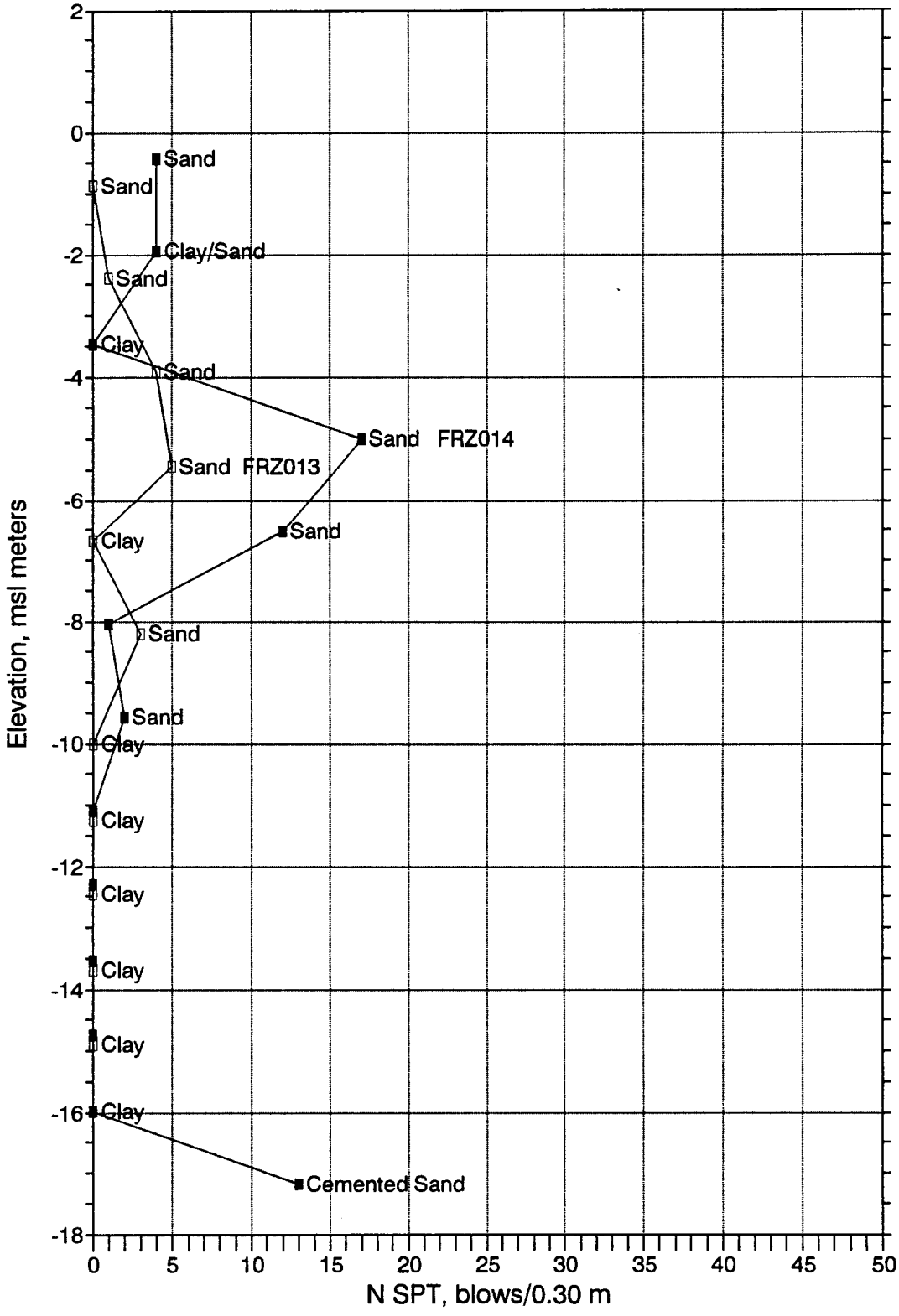

Figure K.47 SPT Profile at Vilano West

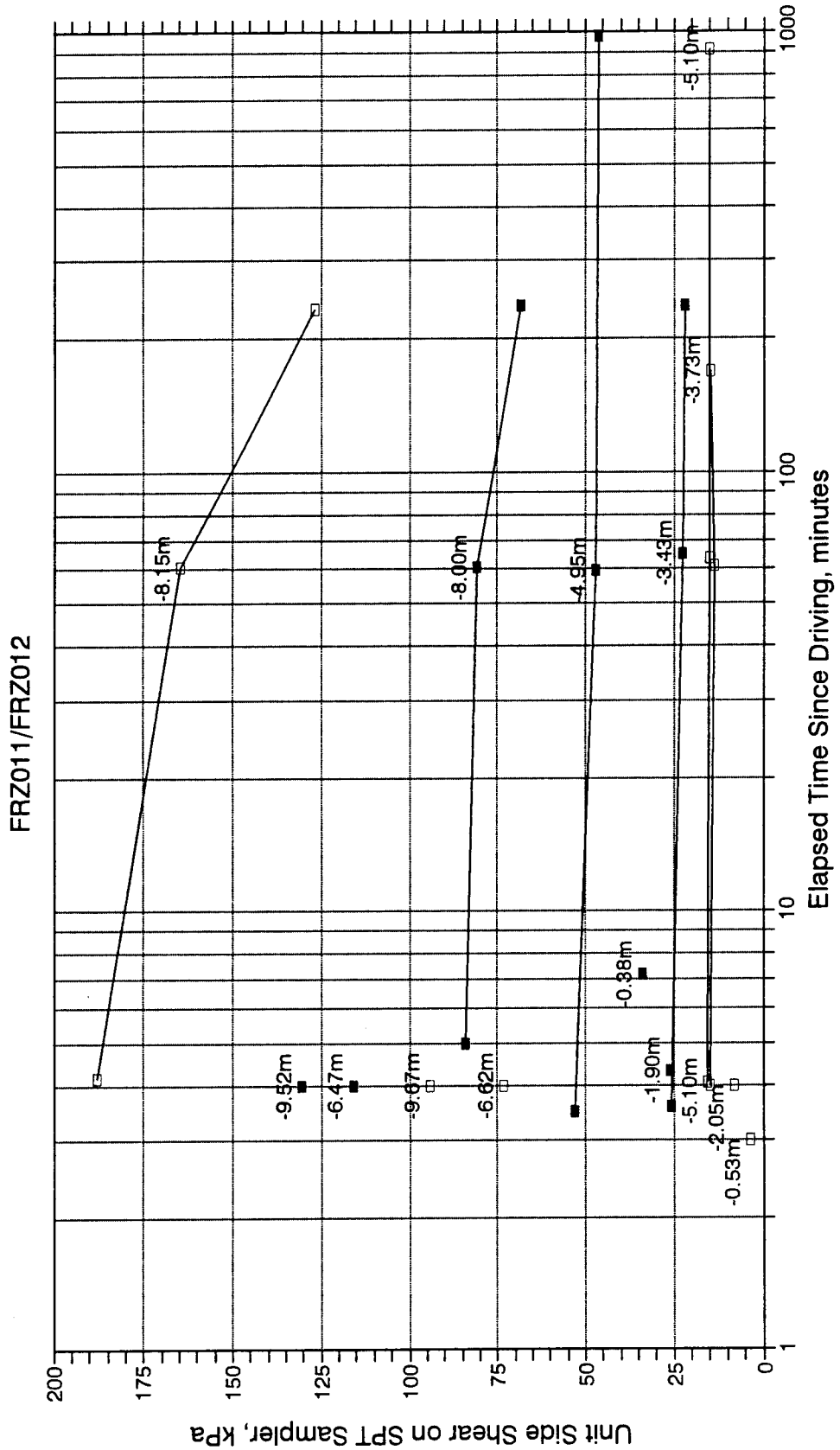

Figure K.48 SPT-T Shear: FRZ011/FRZ012

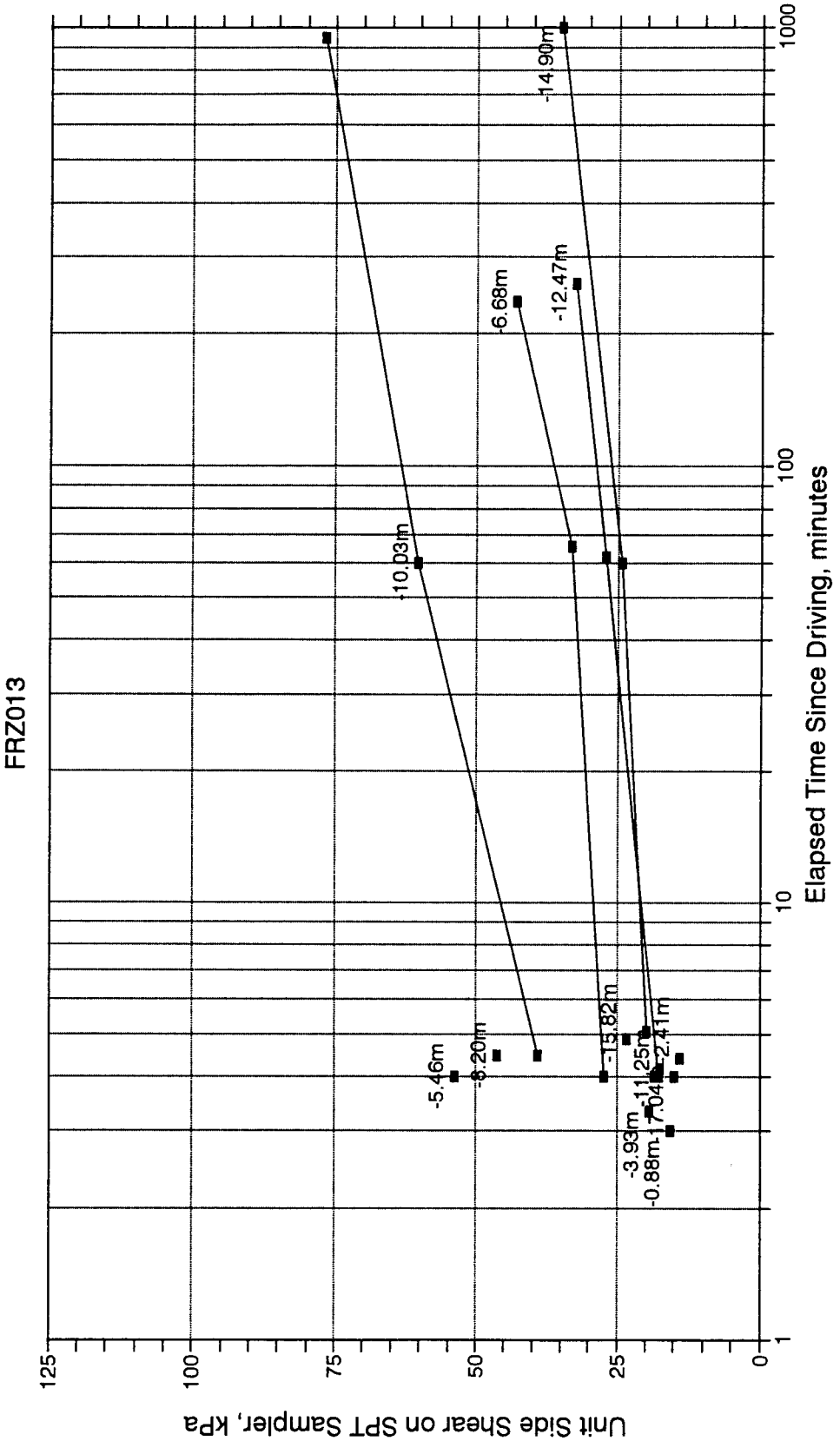

Figure K.49 SPT-T Shear: FRZ013

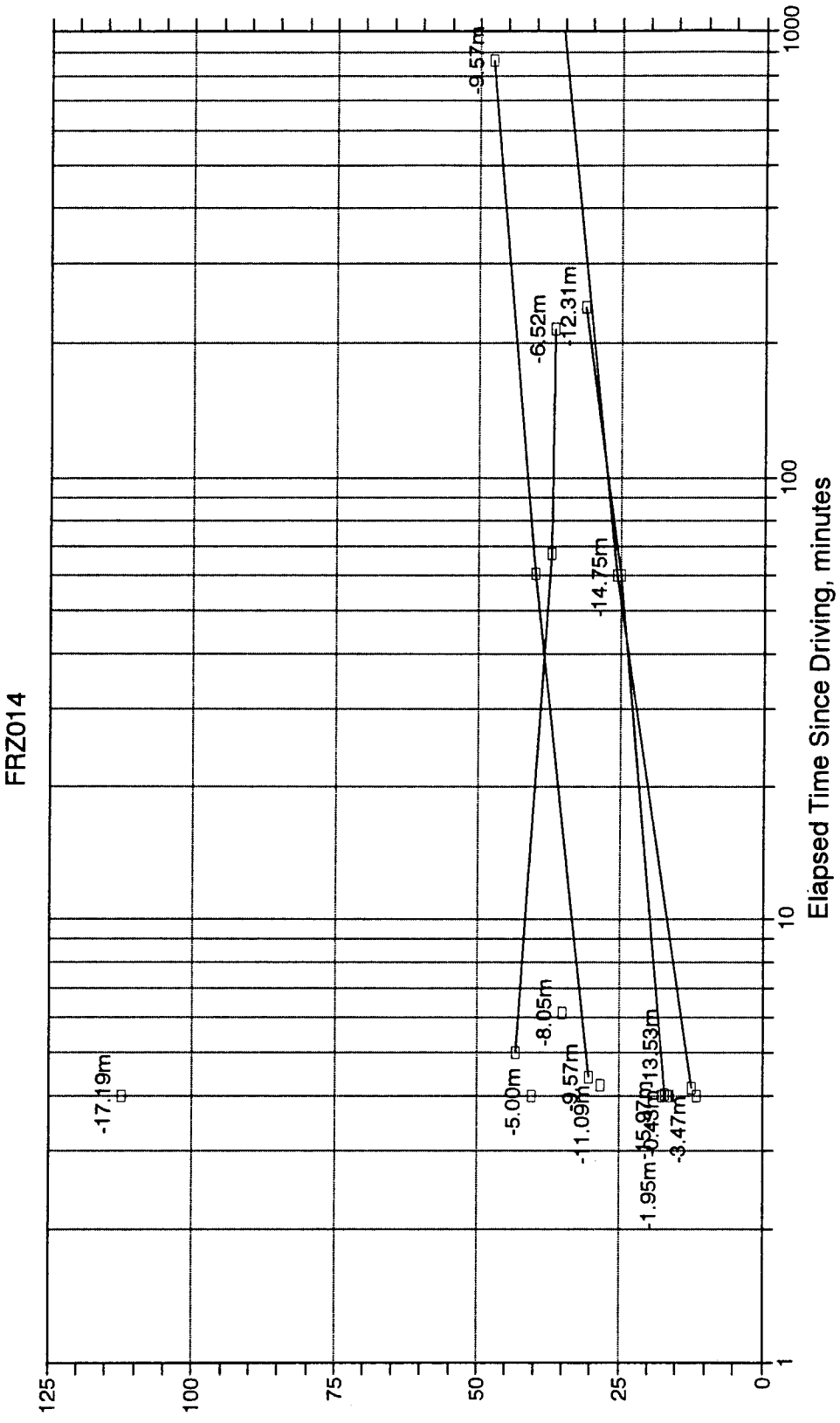

Figure K.50 SPT-T Shear: FRZ014