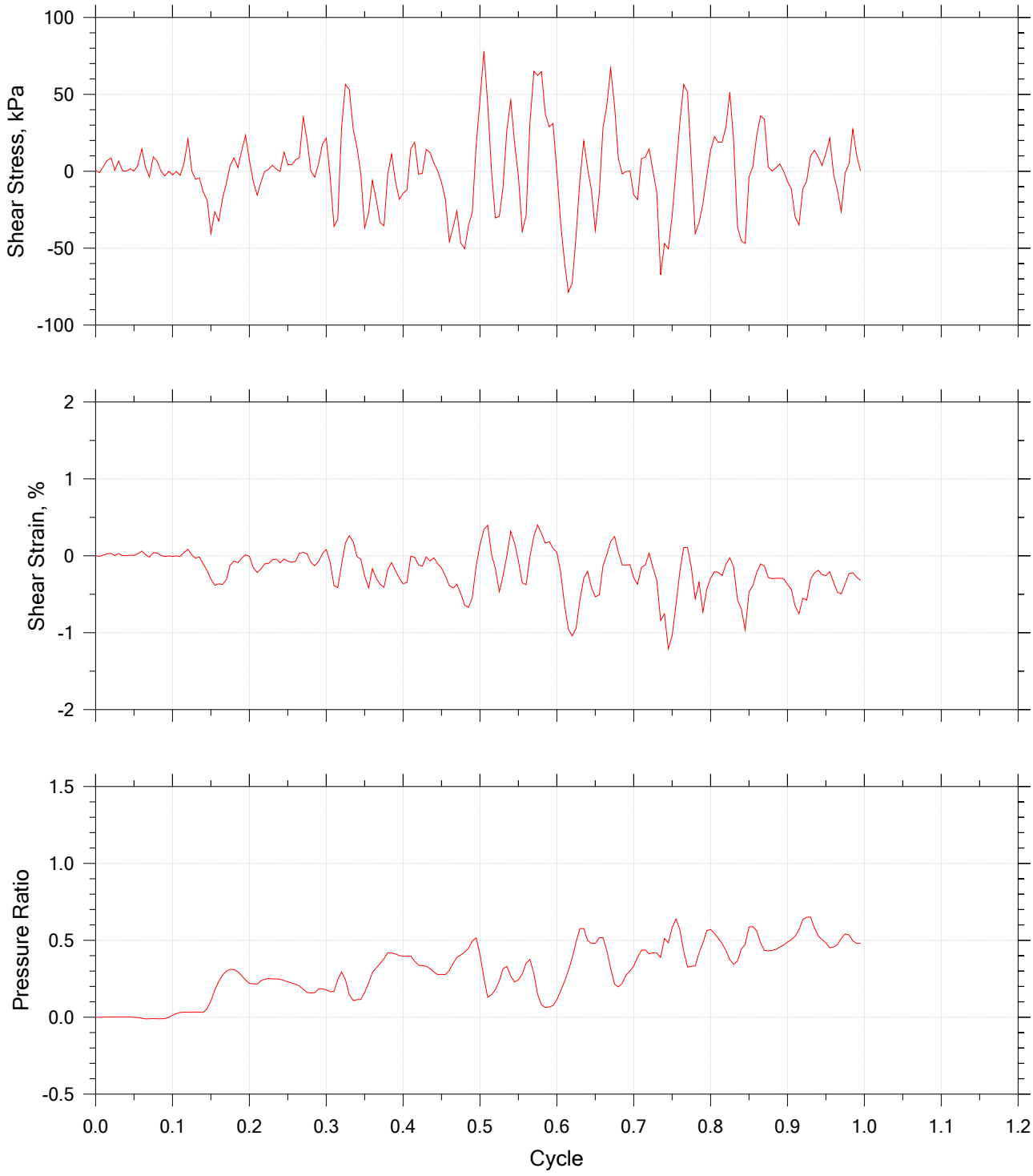
Cyclic Simple Shear Test

Cyclic Data

Step 1 of 1

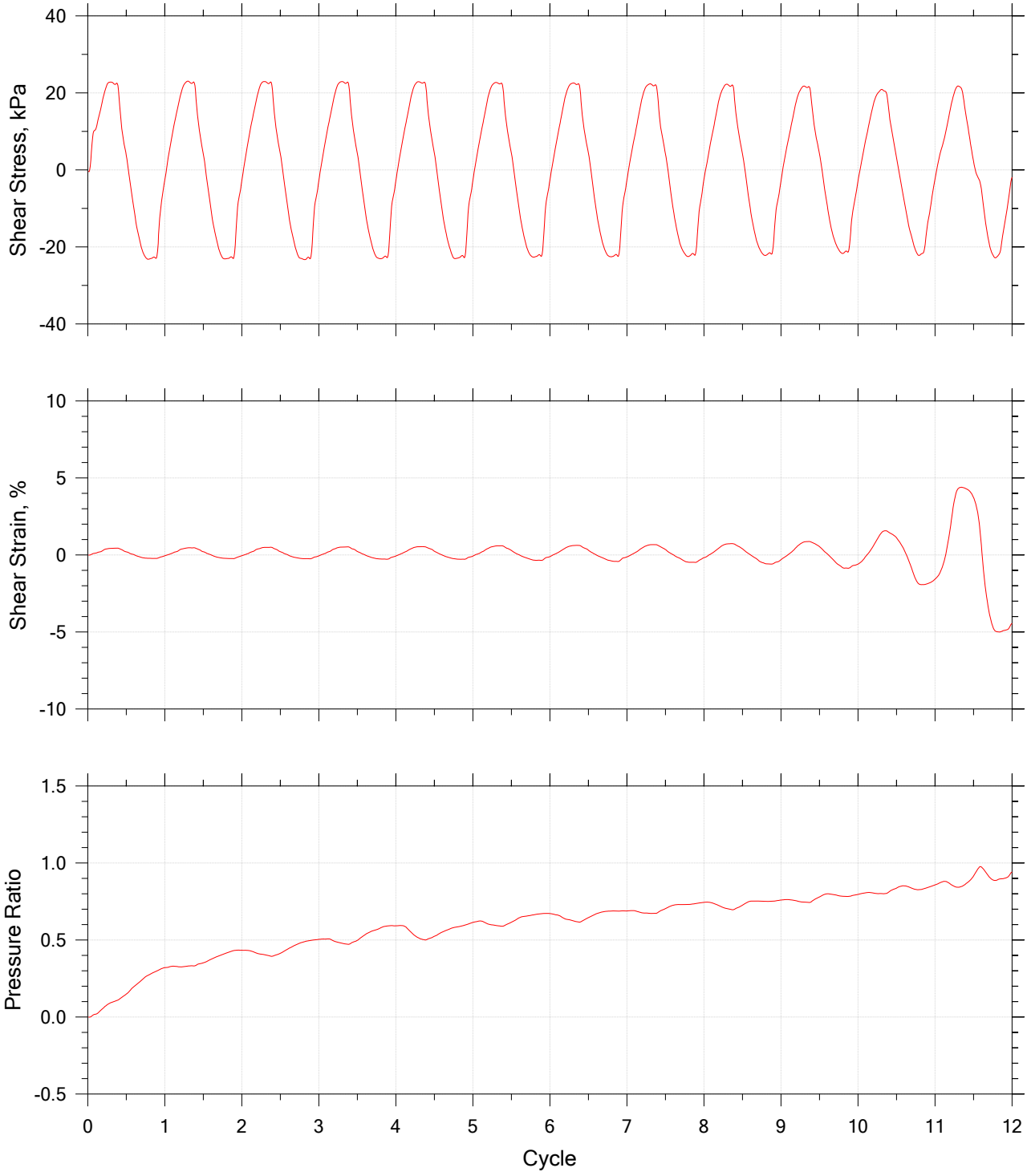


Project Name: USA	Location:	Project Number: Seismic
Boring Number:	Tester: bn	Checker: dl
Sample Number:	Test Date: 01/10/2018	Depth:
Test Number:	Preparation:	Elevation:
Description: Cyclic Simple Shear test with ChiChi Earthquake Record - Vertical effective stress is 300 kPa		
Remarks:		

Cyclic Simple Shear Test

Cyclic Data

Step 1 of 1



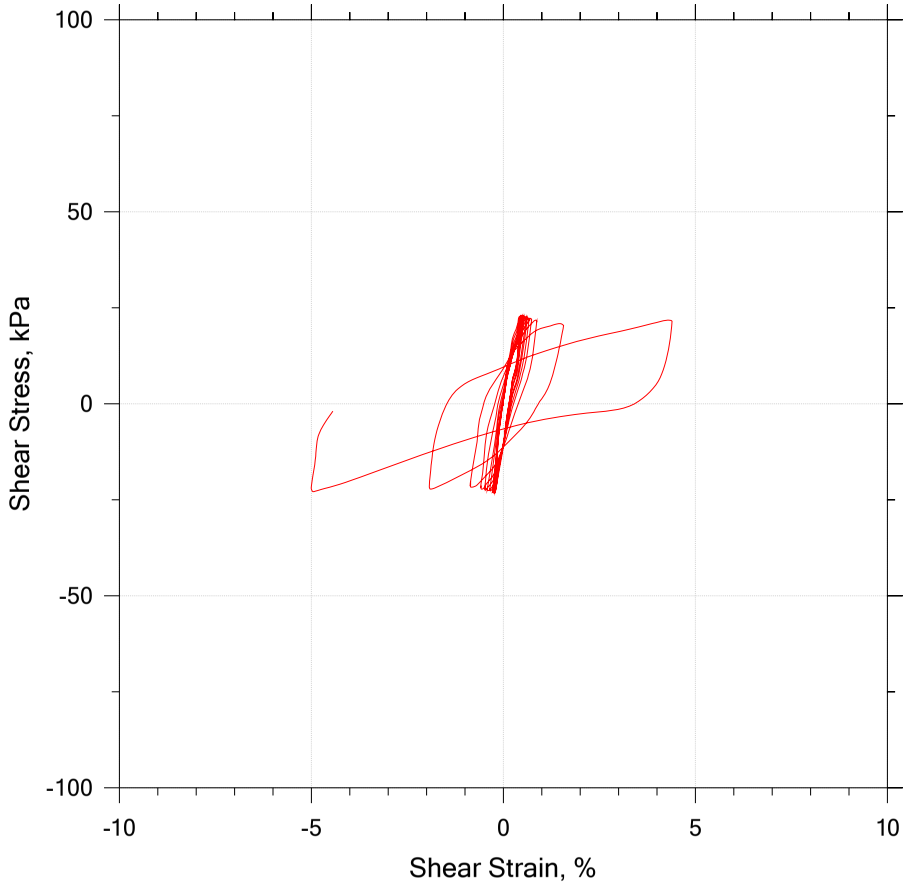
Project Name: Anytown, USA	Location:	Project Number: Seismic
Boring Number:	Tester: sr	Checker: qa
Sample Number:	Test Date: 03/19/2018	Depth:
Test Number:	Preparation:	Elevation:
Description: Cyclic Simple Shear test on poorly graded fine Ottawa sand - Vertical effective stress is 200 kPa		
Remarks:		

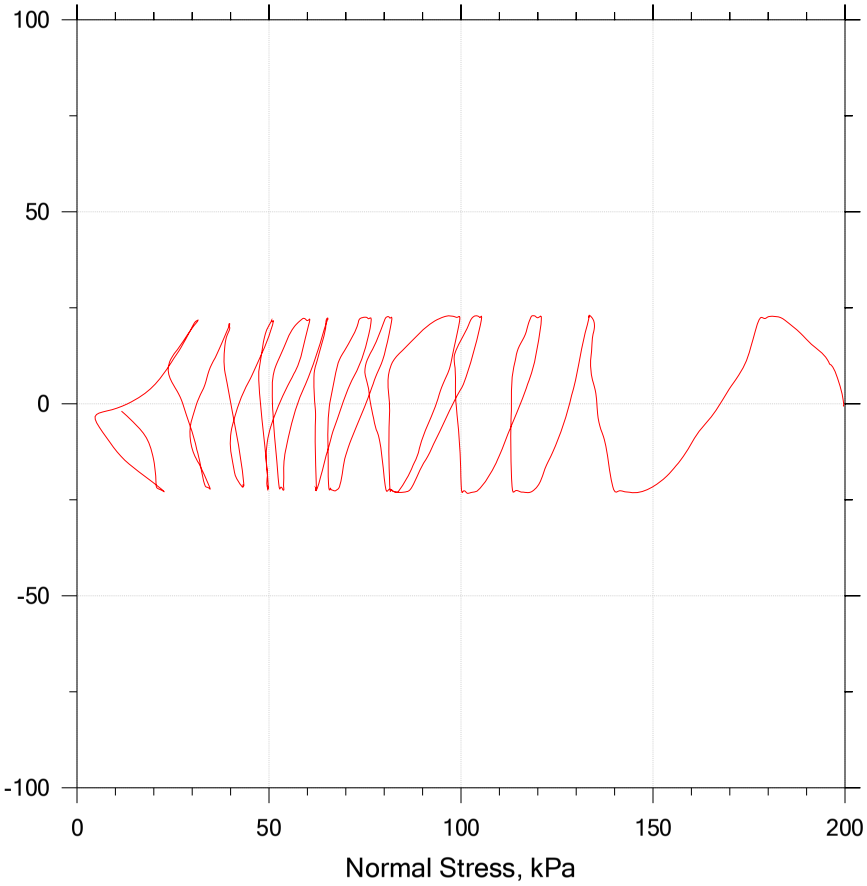
Cyclic Simple Shear Test

Cyclic Stress Strain Results

Step 1 of 1

Cycle 0.0 to 12.0





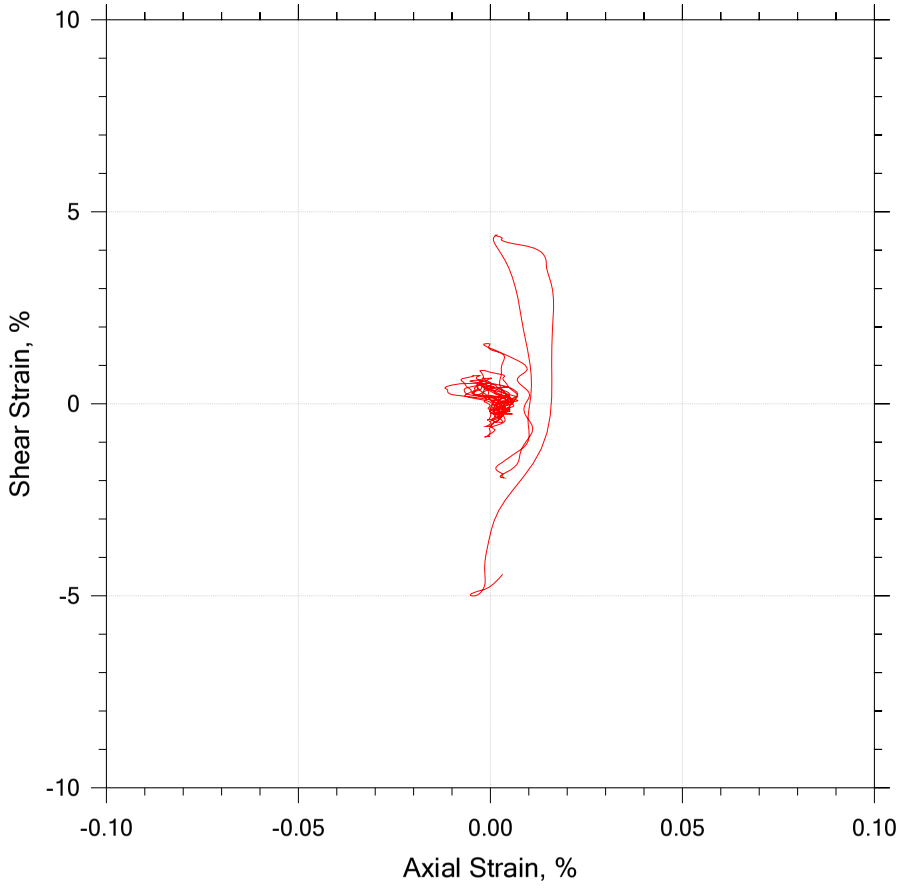
Geocomp	Project Name: Anytown, USA	Location:	Project Number: Seismic
	Boring Number:	Tester: sr	Checker: qa
	Sample Number:	Test Date: 03/19/2018	Depth:
	Test Number:	Preparation:	Elevation:
	Description: Cyclic Simple Shear test on poorly graded fine Ottawa sand - Vertical effective stress is 200 kPa		
	Remarks:		

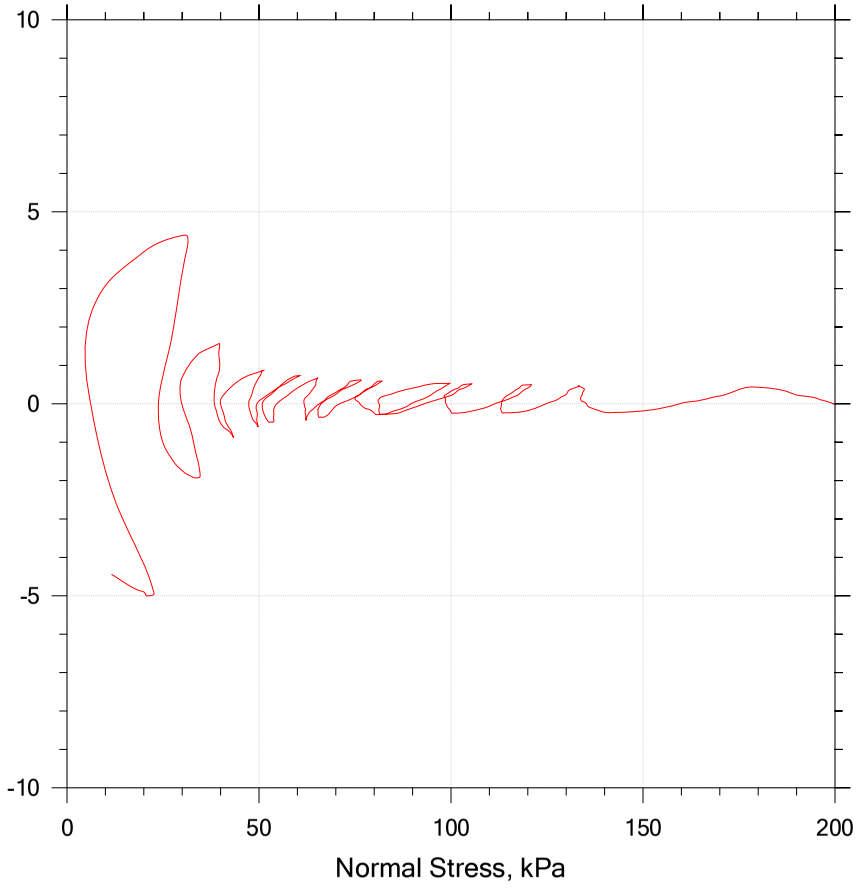
Cyclic Simple Shear Test

Cyclic Strain Results

Step 1 of 1

Cycle 0.0 to 12.0



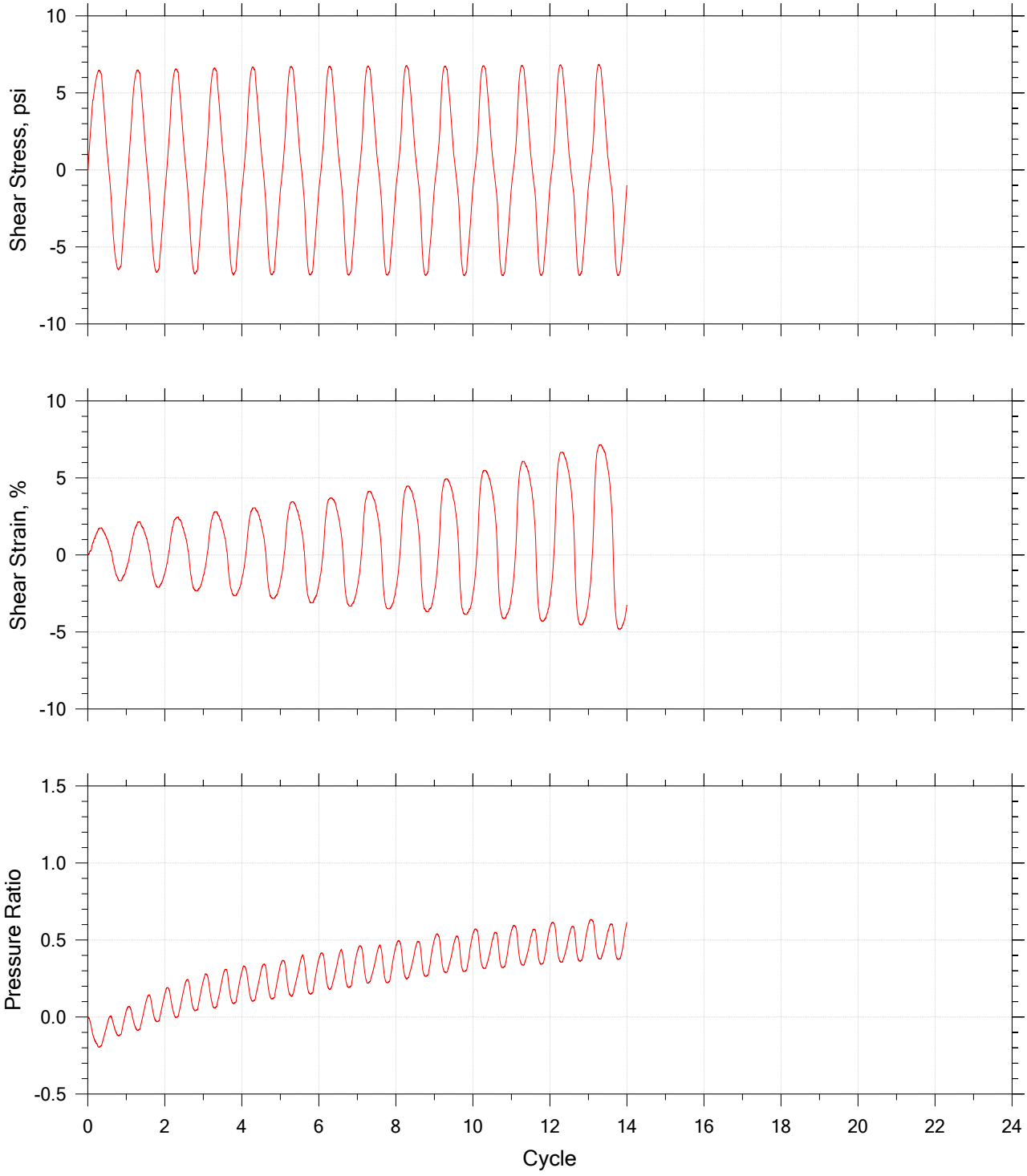


Geocomp	Project Name: Anytown, USA	Location:	Project Number: Seismic
	Boring Number:	Tester: sr	Checker: qa
	Sample Number:	Test Date: 03/19/2018	Depth:
	Test Number:	Preparation:	Elevation:
	Description: Cyclic Simple Shear test on poorly graded fine Ottawa sand - Vertical effective stress is 200 kPa		
	Remarks:		

Cyclic Simple Shear Test

Cyclic Data

Step 1 of 1

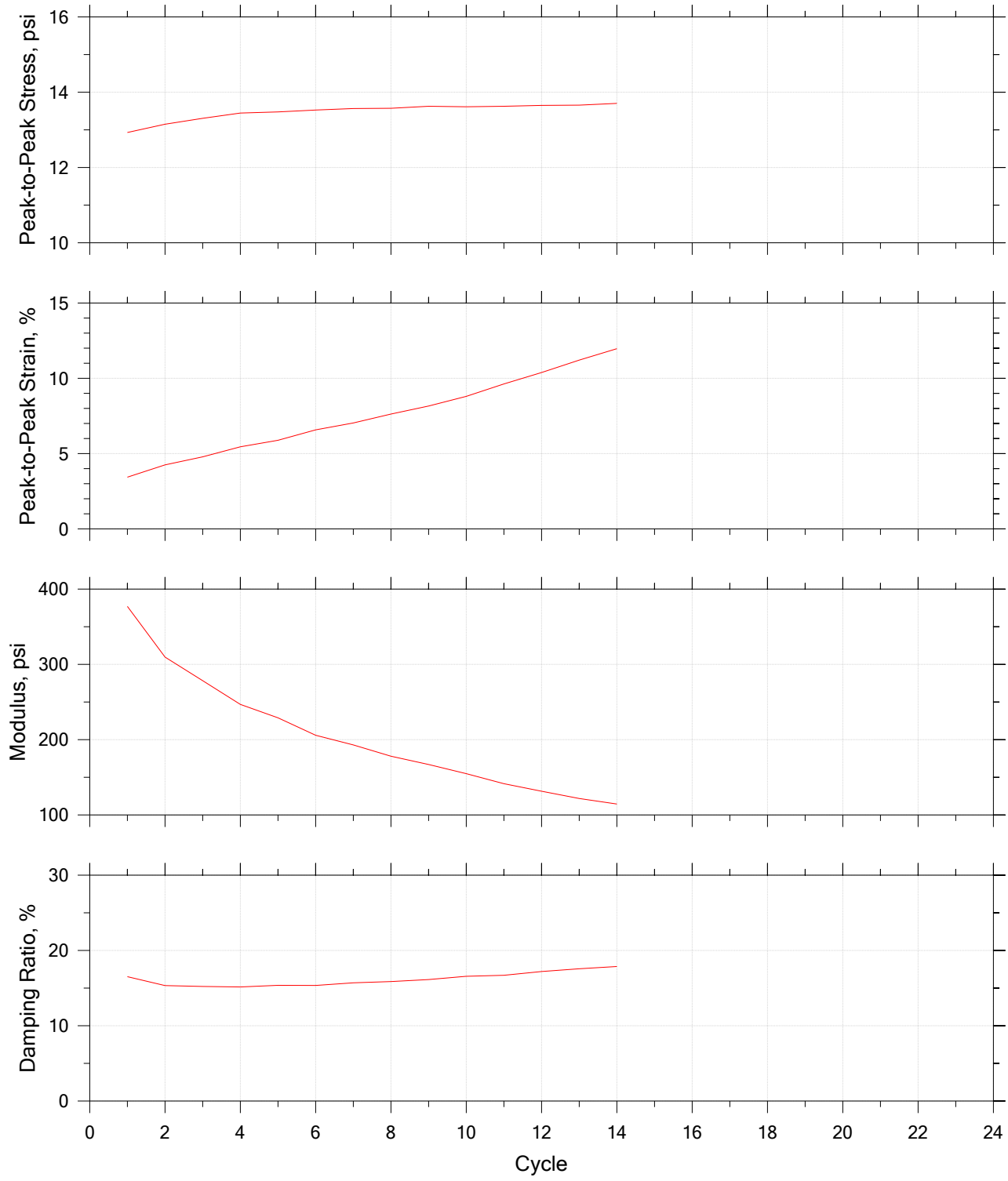


Project Name: USA	Location:	Project Number: Seismic
Boring Number:	Tester: gf	Checker: la
Sample Number:	Test Date: 02/07/18	Depth:
Test Number:	Preparation: intact	Elevation: ---
Description: Moist grey and brown sandy clay		
Remarks: Cyclic Simple Shear Test with post cyclic shear phase - Vertical effective stress is 19.58 psi		

Cyclic Simple Shear Test

Cyclic Modulus/Damping Results

Step 1 of 1



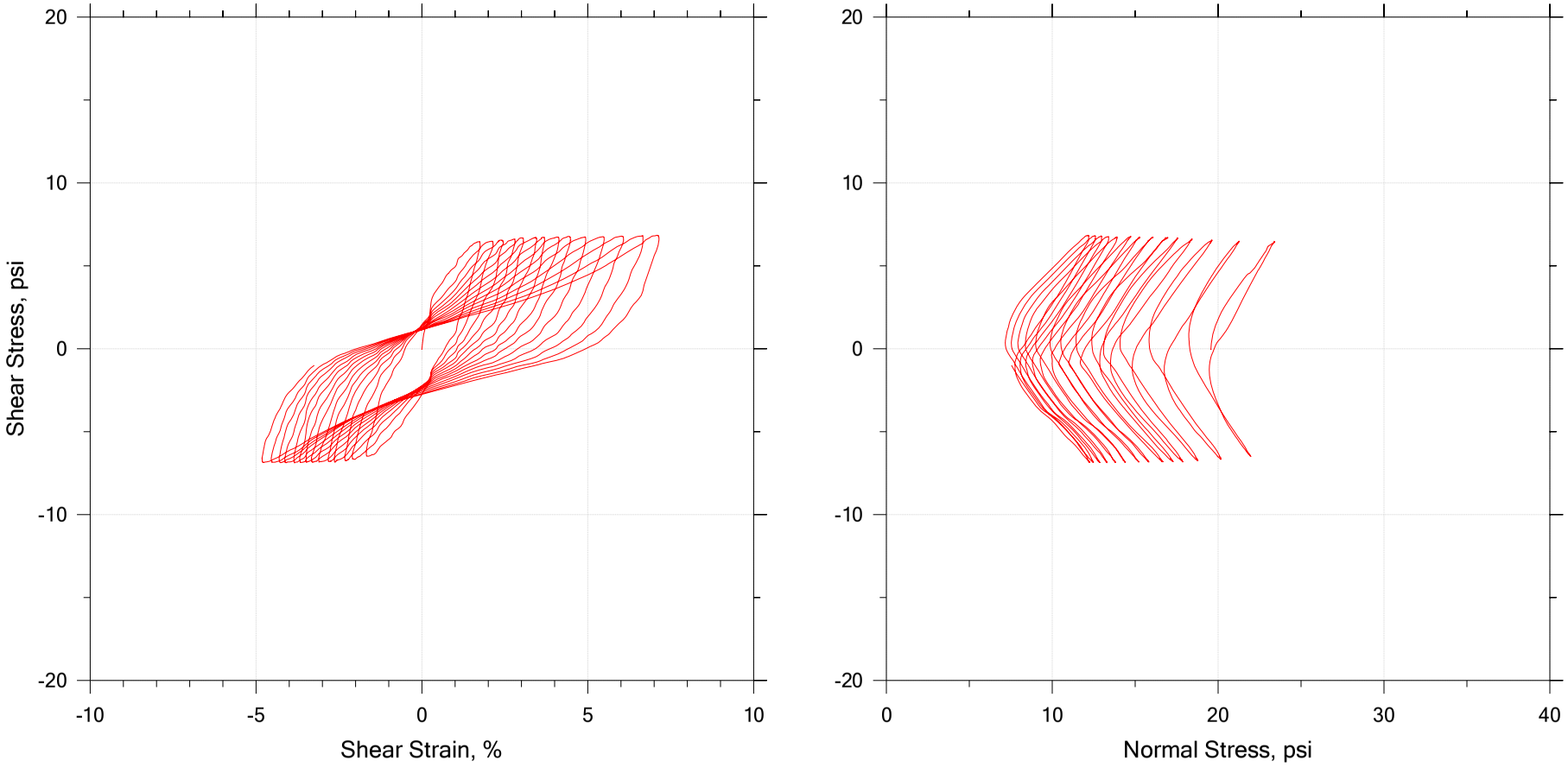
Project Name: USA	Location:	Project Number: Seismic
Boring Number:	Tester: gf	Checker: la
Sample Number:	Test Date: 02/07/18	Depth:
Test Number:	Preparation: intact	Elevation: ---
Description: Moist grey and brown sandy clay		
Remarks: Cyclic Simple Shear Test with post cyclic shear phase - Vertical effective stress is 19.58 psi		

Cyclic Simple Shear Test

Cyclic Stress Strain Results

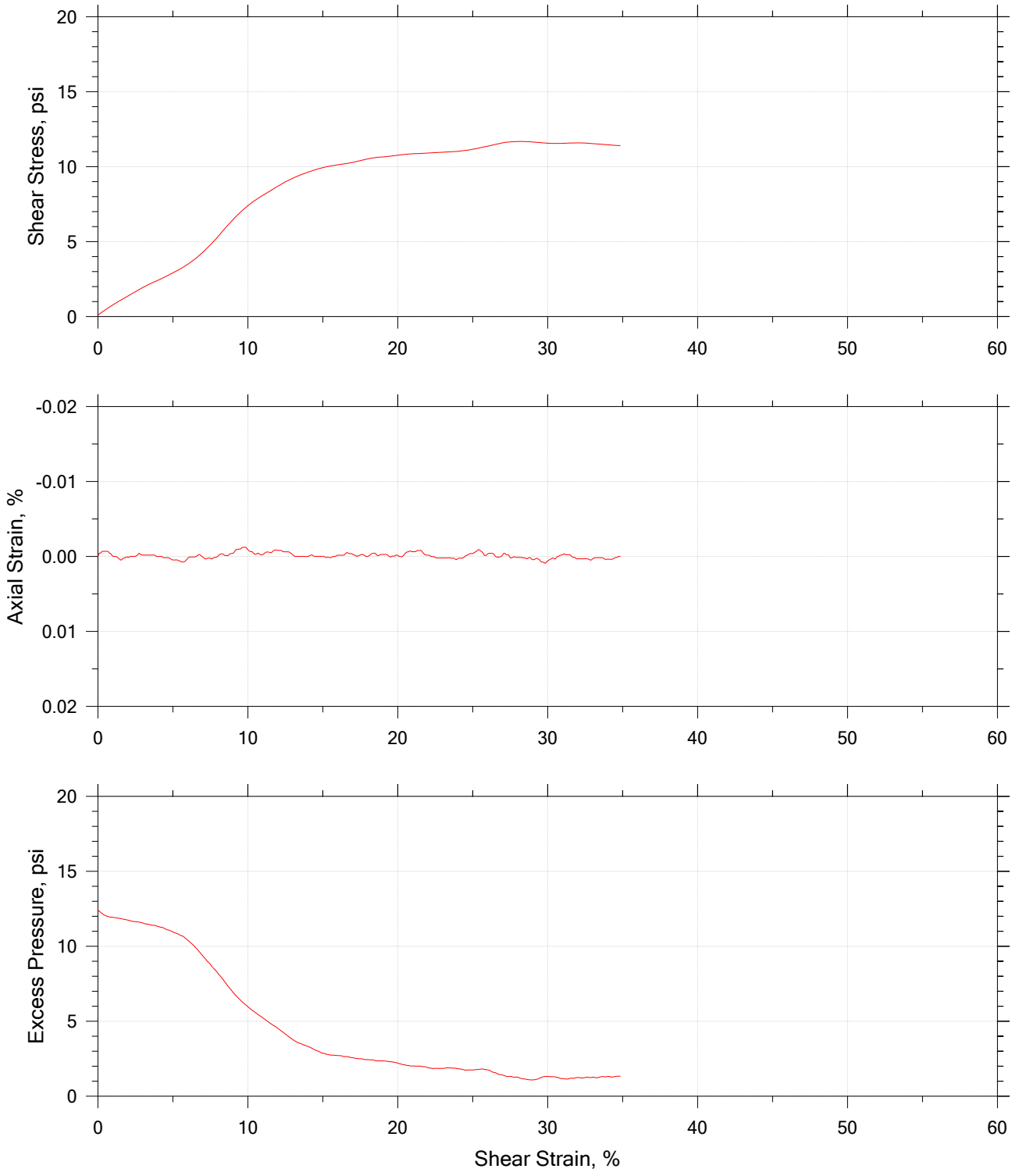
Step 1 of 1

Cycle 0.0 to 15.0



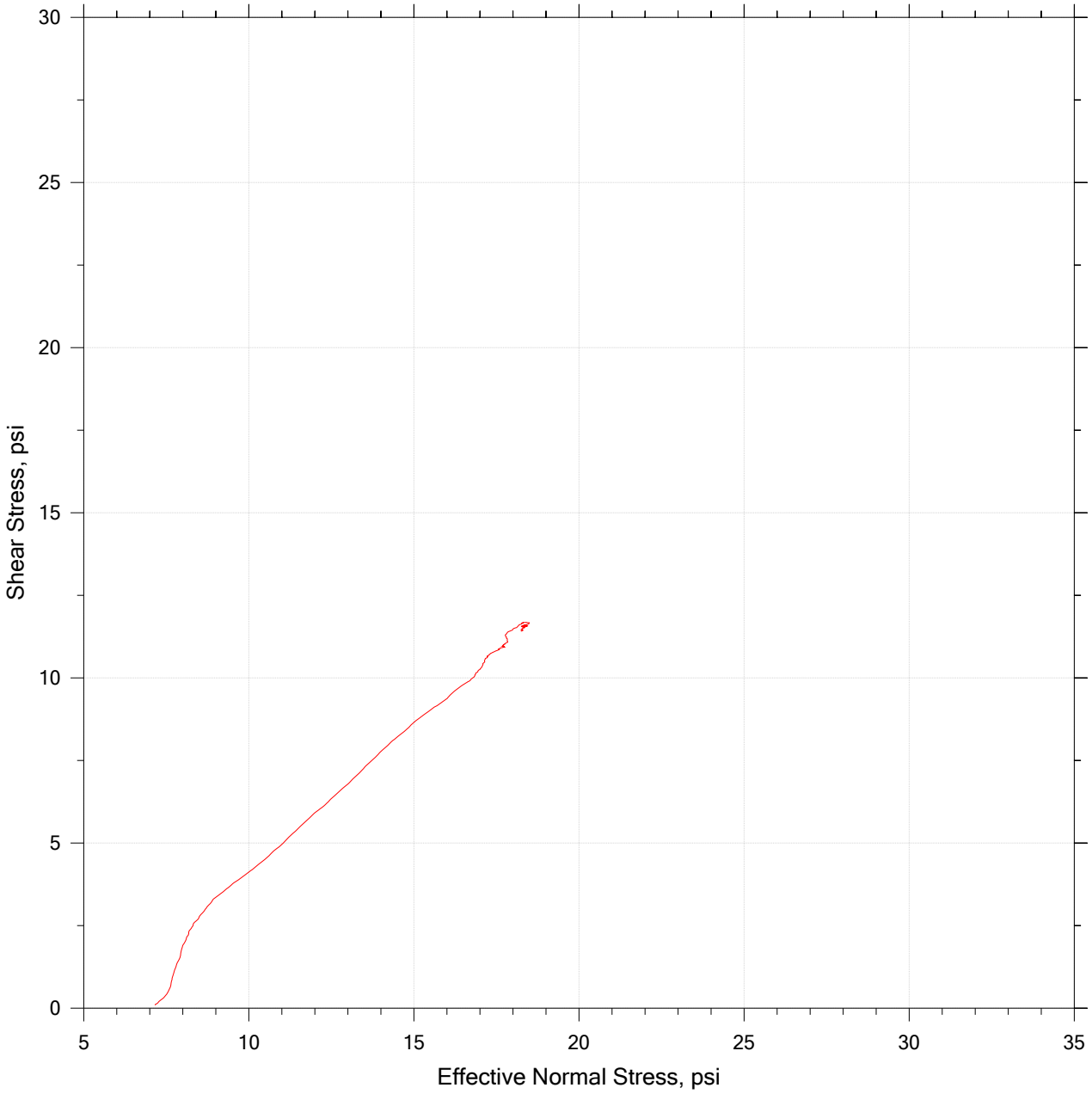
Geocomp	Project Name: USA	Location:	Project Number: Seismic
	Boring Number:	Tester: gf	Checker: la
	Sample Number:	Test Date: 02/07/18	Depth:
	Test Number:	Preparation: intact	Elevation: ---
	Description: Moist grey and brown sandy clay		
	Remarks: Cyclic Simple Shear Test with post cyclic shear phase - Vertical effective stress is 19.58 psi		

Cyclic Simple Shear Test



Project Name: USA	Location:	Project Number: Seismic
Boring Number:	Tester: gf	Checker: la
Sample Number:	Test Date: 02/07/18	Depth:
Test Number:	Preparation: intact	Elevation: ---
Description: Moist grey and brown sandy clay		
Remarks: Cyclic Simple Shear Test with post cyclic shear phase - Vertical effective stress is 19.58 psi		

Cyclic Simple Shear Test



Geocomp	Project Name: USA	Location:	Project Number: Seismic
	Boring Number:	Tester: gf	Checker: la
	Sample Number:	Test Date: 02/07/18	Depth:
	Test Number:	Preparation: intact	Elevation: ---
	Description: Moist grey and brown sandy clay		
	Remarks: Cyclic Simple Shear Test with post cyclic shear phase - Vertical effective stress is 19.58 psi		

Cyclic Simple Shear Test

Cyclic Results

Step 1 of 1

Cycle	Shear Strain %	Shear Stress psi	Axial Strain %	Axial Stress psi	Excess Pressure psi
0.00097656	-0.00059016	-0.027082	7.4489e-05	19.582	-0.0041732
0.0019531	-0.00087489	-0.035193	0.00012381	19.578	-0.00019892
0.0029297	-0.0010891	-0.041628	0.00019071	19.574	0.0034920
0.0039063	-0.0011601	-0.044876	0.00026985	19.571	0.0066218
0.0048828	-0.0010210	-0.043630	0.00035126	19.569	0.0090709
0.0058594	-0.00060344	-0.036536	0.00043834	19.567	0.010593
0.0068359	0.00017097	-0.022208	0.00053255	19.567	0.010987
0.0078125	0.0013442	0.00021273	0.00062591	19.567	0.010219
0.0087891	0.0029445	0.031096	0.00071203	19.569	0.0082043
0.0097656	0.0050076	0.070585	0.00078849	19.573	0.0048152
0.010742	0.0075382	0.11850	0.00084740	19.578	5.6200e-05
0.011719	0.010505	0.17420	0.00088263	19.584	-0.0059449
0.012695	0.013853	0.23635	0.00089933	19.591	-0.013005
0.013672	0.017504	0.30305	0.00089465	19.598	-0.020892
0.014648	0.021357	0.37233	0.00086288	19.607	-0.029310
0.015625	0.025319	0.44222	0.00081394	19.616	-0.038085
0.016602	0.029300	0.51069	0.00075728	19.625	-0.047095
0.017578	0.033189	0.57582	0.00069202	19.634	-0.056042
0.018555	0.036916	0.63616	0.00062592	19.642	-0.064696
0.019531	0.040438	0.69091	0.00056845	19.651	-0.072917
0.020508	0.043739	0.73956	0.00052103	19.658	-0.080641
0.021484	0.046823	0.78192	0.00048515	19.665	-0.087912
0.022461	0.049685	0.81828	0.00046189	19.672	-0.094749
0.023438	0.052343	0.84940	0.00045138	19.679	-0.10121
0.024414	0.054862	0.87621	0.00045363	19.685	-0.10733
0.025391	0.057315	0.89984	0.00047041	19.691	-0.11323
0.026367	0.059774	0.92160	0.00049663	19.697	-0.11914
0.027344	0.062323	0.94276	0.00051627	19.703	-0.12515
0.028320	0.065027	0.96428	0.00052726	19.709	-0.13138
0.029297	0.067944	0.98703	0.00053292	19.716	-0.13805
0.030273	0.071149	1.0117	0.00052468	19.723	-0.14526
0.031250	0.074702	1.0385	0.00050385	19.731	-0.15303
0.032227	0.078657	1.0679	0.00047438	19.739	-0.16144
0.033203	0.083056	1.0998	0.00043370	19.748	-0.17059
0.034180	0.087919	1.1341	0.00038276	19.758	-0.18055
0.035156	0.093306	1.1705	0.00032551	19.769	-0.19136
0.036133	0.099276	1.2088	0.00026812	19.781	-0.20303
0.037109	0.10583	1.2484	0.00021894	19.793	-0.21551
0.038086	0.11292	1.2891	0.00017739	19.806	-0.22871
0.039063	0.12050	1.3306	0.00013873	19.820	-0.24259
0.040039	0.12853	1.3724	0.00011220	19.835	-0.25712
0.041016	0.13692	1.4143	0.00010531	19.850	-0.27225
0.041992	0.14560	1.4559	0.00011559	19.865	-0.28783
0.042969	0.15443	1.4970	0.00014063	19.881	-0.30372
0.043945	0.16330	1.5373	0.00017858	19.897	-0.31976
0.044922	0.17206	1.5766	0.00022780	19.913	-0.33586
0.045898	0.18053	1.6150	0.00028703	19.930	-0.35200
0.046875	0.18856	1.6522	0.00035613	19.946	-0.36813
0.047852	0.19605	1.6885	0.00043749	19.962	-0.38415
0.048828	0.20294	1.7238	0.00052655	19.978	-0.39997

Geocomp	Project Name: USA	Location:	Project Number: Seismic
	Boring Number:	Tester: gf	Checker: la
	Sample Number:	Test Date: 02/07/18	Depth:
	Test Number:	Preparation: intact	Elevation: ---
	Description: Moist grey and brown sandy clay		
	Remarks: Cyclic Simple Shear Test with post cyclic shear phase - Vertical effective stress is 19.58 psi		

Cyclic Simple Shear Test

Cyclic Modulus

Step 1 of 1

Cycle	Peak-Peak Shear Strain %	Peak-Peak Shear Stress psi	Peak Pressure Ratio	Shear Modulus psi	Damping Ratio %
1.0000	3.4305	12.930	0.039475	376.92	16.516
2.0000	4.2473	13.151	0.14669	309.63	15.323
3.0000	4.7812	13.307	0.24298	278.33	15.208
4.0000	5.4498	13.447	0.30948	246.74	15.151
5.0000	5.8862	13.479	0.34278	228.99	15.359
6.0000	6.5720	13.528	0.40279	205.84	15.347
7.0000	7.0310	13.567	0.43782	192.97	15.699
8.0000	7.6272	13.576	0.46851	177.99	15.871
9.0000	8.1625	13.627	0.50220	166.95	16.135
10.000	8.7974	13.613	0.54017	154.74	16.556
11.000	9.6275	13.629	0.57162	141.56	16.694
12.000	10.383	13.651	0.59494	131.47	17.196
13.000	11.206	13.658	0.61493	121.87	17.571
14.000	11.967	13.706	0.63354	114.53	17.858

Geocomp	Project Name: USA	Location:	Project Number: Seismic
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	Description: Moist grey and brown sandy clay		
	Remarks: Cyclic Simple Shear Test with post cyclic shear phase - Vertical effective stress is 19.58 psi		

Cyclic Simple Shear Test

Shear Phase

Time s	Shear Strain %	Shear Stress psi	Normal Stress psi	Excess Pressure psi	Axial Strain %	Shear Modulus psi
0.00000	0.00000	0.097341	7.1509	12.427	0.00000	0.00000
30.000	0.0014113	0.098315	7.1528	12.425	0.00000	1.8220
60.000	0.0042340	0.10026	7.1566	12.421	0.00000	5.4661
90.000	0.0084369	0.10325	7.1618	12.416	-7.2371e-06	10.254
120.00	0.013952	0.10741	7.1673	12.410	-3.7618e-05	14.696
150.00	0.020779	0.11275	7.1731	12.405	-9.1144e-05	18.791
180.00	0.029048	0.11891	7.1804	12.397	-0.00015804	22.492
210.00	0.038935	0.12540	7.1913	12.386	-0.00022495	25.733
240.00	0.050364	0.13228	7.2053	12.372	-0.00029096	28.559
270.00	0.062425	0.14007	7.2185	12.359	-0.00034581	31.461
300.00	0.075119	0.14878	7.2307	12.347	-0.00038950	34.441
330.00	0.088446	0.15841	7.2420	12.336	-0.00042202	37.498
360.00	0.10241	0.16895	7.2524	12.325	-0.00044339	40.633
390.00	0.11700	0.18041	7.2620	12.316	-0.00045359	43.845
420.00	0.13231	0.19280	7.2710	12.307	-0.00045359	47.119
450.00	0.14930	0.20627	7.2838	12.294	-0.00045359	50.285
480.00	0.16796	0.22081	7.3003	12.277	-0.00045359	53.343
510.00	0.18798	0.23595	7.3193	12.258	-0.00047453	56.301
540.00	0.20934	0.25165	7.3407	12.237	-0.00051891	59.157
570.00	0.23200	0.26790	7.3642	12.213	-0.00058517	61.918
600.00	0.25560	0.28499	7.3863	12.191	-0.00063502	64.683
630.00	0.28012	0.30292	7.4069	12.171	-0.00066846	67.453
660.00	0.30558	0.32168	7.4261	12.152	-0.00068547	70.227
690.00	0.33197	0.34127	7.4438	12.134	-0.00068607	73.006
720.00	0.35975	0.36137	7.4619	12.116	-0.00068607	75.711
750.00	0.38895	0.38195	7.4803	12.097	-0.00068607	78.337
780.00	0.41979	0.40323	7.4982	12.079	-0.00068607	80.893
810.00	0.45290	0.42576	7.5130	12.065	-0.00068607	83.396
840.00	0.48743	0.44894	7.5265	12.051	-0.00068607	85.856
870.00	0.52283	0.47236	7.5399	12.038	-0.00068607	88.280
900.00	0.55909	0.49603	7.5531	12.024	-0.00068607	90.669
930.00	0.59622	0.51995	7.5663	12.011	-0.00068607	93.022
960.00	0.63287	0.54337	7.5777	12.000	-0.00067919	93.533
990.00	0.66917	0.56669	7.5881	11.990	-0.00065375	92.231
1020.0	0.70513	0.58985	7.5978	11.980	-0.00060253	89.794
1050.0	0.74084	0.61269	7.6080	11.970	-0.00050962	87.711
1080.0	0.77667	0.63589	7.6190	11.959	-0.00043143	86.009
1110.0	0.81263	0.65999	7.6293	11.948	-0.00039510	84.743
1140.0	0.84855	0.68505	7.6364	11.941	-0.00037576	83.946
1170.0	0.88453	0.71017	7.6390	11.939	-0.00030083	83.513
1200.0	0.92148	0.73481	7.6410	11.937	-0.00018058	82.952
1230.0	0.95912	0.75925	7.6441	11.934	-9.2522e-05	82.299
1260.0	0.99743	0.78350	7.6482	11.929	-3.8767e-05	81.555
1290.0	1.0364	0.80756	7.6535	11.924	-1.7403e-05	80.721
1320.0	1.0756	0.83146	7.6602	11.917	-7.2025e-06	79.815
1350.0	1.1151	0.85518	7.6681	11.909	-7.2025e-06	78.854
1380.0	1.1537	0.87859	7.6729	11.905	-7.2025e-06	78.007
1410.0	1.1916	0.90167	7.6745	11.903	-7.2025e-06	77.273
1440.0	1.2300	0.92469	7.6797	11.898	1.3741e-05	76.601
1470.0	1.2688	0.94769	7.6889	11.889	5.8116e-05	75.987

Geocomp	Project Name: USA	Location:	Project Number: Seismic
	Boring Number:	Tester: gf	Checker: la
	Sample Number:	Test Date: 02/07/18	Depth:
	Test Number:	Preparation: intact	Elevation: ---
	Description: Moist grey and brown sandy clay		
	Remarks: Cyclic Simple Shear Test with post cyclic shear phase - Vertical effective stress is 19.58 psi		